

EPHEMERIDES

8 28.9

8 29.0

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>337274</b>	2000 <i>UJ</i> <sub>76</sub>		8 28.9 319°44	11.6/18.9	18		<b>474444</b>	2003 <i>QD</i> <sub>14</sub>		8 28.9 350°80	3°9/1.7	18	
7 20	22 55.43	-30 47.7	1.343	2.214	17.5	19.9	7 20	22 43.30	+ 5 6.1	1.277	2.097	21.1	20.1
7 30	22 53.71	-32 27.5	1.264	2.184	14.9	19.6	7 30	22 43.36	+ 4 33.8	1.196	2.088	17.7	19.8
8 9	22 48.59	-34 6.8	1.204	2.155	12.6	19.4	8 9	22 40.90	+ 3 28.1	1.132	2.080	13.5	19.5
8 19	22 40.47	-35 32.8	1.165	2.126	11.6	19.3	8 19	22 36.33	+ 1 49.5	1.087	2.073	8.7	19.3
8 29	22 30.43	-36 31.5	1.148	2.098	12.7	19.3	8 29	22 30.49	- 0 16.1	1.065	2.068	4.4	19.0
9 8	22 20.12	-36 52.5	1.151	2.071	15.3	19.3	9 8	22 24.55	- 2 37.1	1.067	2.065	5.3	19.1
9 18	22 11.26	-36 32.2	1.174	2.044	18.6	19.5	9 18	22 19.71	- 4 58.9	1.092	2.063	10.0	19.3
9 28	22 5.33	-35 33.0	1.213	2.019	21.9	19.6	9 28	22 17.01	- 7 7.6	1.141	2.062	14.8	19.6
<b>112148</b>	2002 <i>JK</i> <sub>65</sub>		8 28.9 72°96	3°8/26.1	18		<b>13636</b>	1995 <i>YS</i> <sub>2</sub>		8 28.9 215°62	0°3/29.3	18	
7 20	22 58.59	-14 1.9	1.355	2.206	18.5	19.3	7 20	22 57.42	- 5 56.6	1.847	2.657	15.9	20.0
7 30	22 55.07	-15 3.9	1.303	2.224	14.4	19.1	7 30	22 53.64	- 6 17.1	1.758	2.652	12.8	19.8
8 9	22 48.68	-16 16.8	1.270	2.241	9.8	18.9	8 9	22 47.55	- 6 51.8	1.688	2.646	9.0	19.6
8 19	22 40.09	-17 32.3	1.259	2.259	5.4	18.7	8 19	22 39.57	- 7 38.0	1.642	2.640	4.7	19.3
8 29	22 30.44	-18 40.5	1.274	2.276	4.1	18.7	8 29	22 30.50	- 8 30.7	1.623	2.633	0.3	18.9
9 8	22 21.10	-19 32.9	1.313	2.294	7.7	18.9	9 8	22 21.33	- 9 23.7	1.632	2.626	4.5	19.3
9 18	22 13.29	-20 4.6	1.377	2.311	11.9	19.2	9 18	22 13.10	-10 11.2	1.667	2.619	8.9	19.5
9 28	22 7.96	-20 14.0	1.462	2.328	15.7	19.5	9 28	22 6.71	-10 48.2	1.727	2.611	12.8	19.7
<b>364133</b>	2006 <i>BG</i> <sub>238</sub>		8 28.9 78°71	0°1/28.9	18		<b>522927</b>	2016 <i>PP</i> <sub>111</sub>		8 28.9 281°18	0°5/29.4	18	
7 20	22 54.81	- 8 30.7	2.369	3.177	12.9	20.8	7 20	22 55.34	- 6 6.6	1.840	2.655	15.8	21.9
7 30	22 50.85	- 8 40.6	2.290	3.184	10.2	20.7	7 30	22 52.09	- 6 16.2	1.743	2.640	12.7	21.7
8 9	22 45.16	- 8 59.1	2.233	3.192	7.1	20.5	8 9	22 46.54	- 6 39.5	1.667	2.626	9.0	21.4
8 19	22 38.15	- 9 23.6	2.201	3.200	3.6	20.3	8 19	22 39.10	- 7 14.0	1.614	2.611	4.8	21.1
8 29	22 30.45	- 9 50.6	2.197	3.207	0.1	20.0	8 29	22 30.50	- 7 55.6	1.587	2.597	0.6	20.8
9 8	22 22.81	-10 16.4	2.222	3.215	3.7	20.3	9 8	22 21.73	- 8 38.6	1.587	2.582	4.5	21.1
9 18	22 15.96	-10 37.5	2.275	3.222	7.1	20.5	9 18	22 13.83	- 9 17.5	1.613	2.567	8.9	21.3
9 28	22 10.51	-10 51.2	2.353	3.230	10.1	20.8	9 28	22 7.73	- 9 47.4	1.664	2.553	12.9	21.5
<b>155705</b>	2000 <i>QZ</i> <sub>104</sub>		8 28.9 343°04	6°1/24.4	18		<b>265442</b>	2004 <i>XY</i> <sub>38</sub>		8 28.9 324°10	4°1/24.4	18	
7 20	22 51.88	-18 45.9	1.283	2.157	17.9	19.1	7 20	22 47.92	-14 1.5	1.824	2.676	14.4	20.0
7 30	22 50.34	-19 50.9	1.214	2.147	14.2	18.9	7 30	22 46.35	-15 35.8	1.731	2.654	11.3	19.7
8 9	22 45.82	-21 4.5	1.164	2.138	10.2	18.6	8 9	22 42.65	-17 24.2	1.660	2.633	7.8	19.5
8 19	22 38.85	-22 17.6	1.135	2.130	6.8	18.4	8 19	22 37.14	-19 19.8	1.614	2.612	4.7	19.2
8 29	22 30.45	-23 19.0	1.129	2.123	6.6	18.4	8 29	22 30.50	-21 13.0	1.595	2.591	4.6	19.2
9 8	22 22.05	-23 59.5	1.146	2.117	9.9	18.6	9 8	22 23.65	-22 54.0	1.602	2.572	7.7	19.3
9 18	22 15.03	-24 13.7	1.185	2.112	14.1	18.8	9 18	22 17.60	-24 15.0	1.634	2.553	11.5	19.5
9 28	22 10.54	-24 0.6	1.243	2.108	18.0	19.0	9 28	22 13.25	-25 11.4	1.689	2.534	15.0	19.7
<b>338734</b>	2003 <i>UD</i> <sub>121</sub>		8 28.9 11°73	8°7/22.7	18		<b>15704</b>	1987 <i>SE</i> <sub>7</sub>		8 28.9 347°67	4°0/31.0	18	
7 20	23 0.56	-28 35.9	1.544	2.398	16.5	20.1	7 20	22 51.40	- 3 30.4	0.977	1.838	23.2	17.5
7 30	22 56.67	-29 36.1	1.487	2.400	13.5	19.9	7 30	22 50.65	- 2 36.0	0.907	1.827	19.2	17.2
8 9	22 49.83	-30 32.6	1.449	2.402	10.6	19.8	8 9	22 46.51	- 2 0.3	0.852	1.817	14.3	16.9
8 19	22 40.71	-31 15.7	1.433	2.404	8.8	19.7	8 19	22 39.41	- 1 44.9	0.815	1.809	8.8	16.5
8 29	22 30.45	-31 36.8	1.442	2.407	9.1	19.7	8 29	22 30.50	- 1 48.0	0.797	1.803	4.2	16.3
9 8	22 20.46	-31 30.6	1.474	2.410	11.3	19.9	9 8	22 21.46	- 2 4.3	0.801	1.799	6.6	16.4
9 18	22 12.03	-30 56.7	1.529	2.414	14.2	20.0	9 18	22 13.99	- 2 26.5	0.825	1.796	12.2	16.7
9 28	22 6.14	-29 58.0	1.604	2.419	17.0	20.2	9 28	22 9.52	- 2 46.2	0.867	1.795	17.5	17.0
<b>25885</b>	Wiesinger		8 28.9 330°62	2°0/30.6	18		<b>150317</b>	1999 <i>VQ</i> <sub>40</sub>		8 28.9 311°84	2°9/31.1	18	
7 20	22 53.67	- 2 34.8	1.573	2.390	17.9	18.7	7 20	22 53.34	- 1 11.8	1.374	2.197	19.8	20.4
7 30	22 51.04	- 2 36.0	1.489	2.384	14.6	18.5	7 30	22 51.28	- 1 4.3	1.287	2.184	16.3	20.1
8 9	22 45.93	- 2 55.2	1.424	2.379	10.6	18.2	8 9	22 46.43	- 1 17.6	1.217	2.172	12.1	19.8
8 19	22 38.79	- 3 30.8	1.381	2.374	6.1	18.0	8 19	22 39.21	- 1 51.6	1.168	2.160	7.3	19.5
8 29	22 30.46	- 4 18.8	1.362	2.370	2.2	17.7	8 29	22 30.51	- 2 42.4	1.142	2.148	3.1	19.3
9 8	22 22.04	- 5 12.6	1.369	2.365	4.7	17.9	9 8	22 21.59	- 3 43.3	1.140	2.137	5.3	19.4
9 18	22 14.68	- 6 5.3	1.401	2.362	9.3	18.1	9 18	22 13.80	- 4 45.6	1.162	2.126	10.3	19.6
9 28	22 9.34	- 6 50.4	1.456	2.358	13.5	18.4	9 28	22 8.31	- 5 40.9	1.207	2.116	15.1	19.9
<b>438918</b>	2010 <i>CS</i> <sub>22</sub>		8 28.9 350°42	1°3/28.3	18		<b>298265</b>	2002 <i>WS</i> <sub>16</sub>		8 28.9 319°37	4°3/25.0	18	
7 20	23 2.97	-13 52.3	1.477	2.314	17.9	20.3	7 20	22 50.19	-14 59.0	1.582	2.440	15.9	20.3
7 30	22 58.56	-13 26.2	1.398	2.310	14.3	20.1	7 30	22 48.55	-16 9.0	1.491	2.417	12.6	20.0
8 9	22 51.21	-13 5.5	1.339	2.306	10.0	19.8	8 9	22 44.41	-17 32.1	1.420	2.394	8.8	19.8
8 19	22 41.49	-12 46.8	1.302	2.303	5.1	19.5	8 19	22 38.13	-19 1.3	1.373	2.371	5.2	19.5
8 29	22 30.46	-12 26.3	1.291	2.300	1.3	19.2	8 29	22 30.51	-20 27.1	1.350	2.349	4.7	19.4
9 8	22 19.52	-12 0.4	1.306	2.299	5.8	19.5	9 8	22 22.66	-21 39.9	1.353	2.328	8.2	19.6
9 18	22 10.00	-11 27.0	1.347	2.298	10.6	19.8	9 18	22 15.76	-22 32.1	1.379	2.308	12.4	19.8
9 28	22 2.96	-10 45.5	1.410	2.297	14.9	20.1	9 28	22 10.89	-22 59.7	1.427	2.288	16.3	19.9
<b>63245</b>	2001 <i>BP</i> <sub>30</sub>		8 28.9 237°78	0°1/28.9	18		<b>257493</b>	1995 <i>UY</i> <sub>58</sub>		8 29.0 68°51	1°2/28.1	17	
7 20	22 53.15	- 7 1.8	2.663	3.463	11.9	20.8	7 20	22 54.11	- 9 12.3	1.320	2.233	14.9	20.3
7 30	22 49.51	- 7 27.6	2.562	3.451	9.4	20.7	7 30	22 47.97	-10 9.9	1.285	2.253	10.1	20.1
8 9	22 44.27	- 8 3.3	2.483	3.439	6.6	20.5	8 9	22 39.74	-11 17.1	1.273	2.274	5.0	19.8
8 19	22 37.75	- 8 46.4	2.430	3.427	3.4	20.2	8 19	22 30.52	-12 25.4	1.285	2.294	1.3	19.6
8 29	22 30.49	- 9 33.3	2.405	3.415	0.1	19.9	9 8	22 21.58	-13 26.3	1.323	2.315	5.8	20.0
9 8	22 23.14	-10 19.8	2.410	3.402	3.5	20.2	9 18	22 14.11	-14 13.2	1.386	2.335	10.5	20.3
9 18	22 16.37	-11 2.1	2.443	3.389	6.7	20.4	9 28	22 8.99	-14 42.5	1.471	2.355	14.5	20.6
9 28	22 10.80	-11 36.6	2.502	3.376	9.7	20.6	10 8	22 6.66	-14 53.4	1.575	2.375	17.8	20.9
<b>438015</b>	2003 <i>XV</i> <sub>27</sub>		8 28.9 28°43	8°1/4.6	17		<b>399597</b>	2003 <i>UN</i> <sub>325</sub>					

EPHEMERIDES

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$		
<b>313954</b>	2004 <i>RC</i> <sub>204</sub>		8 29.0	20°08'	9°7'	6.5	17	<b>357573</b>	2004 <i>TZ</i> <sub>164</sub>		8 29.0	43°84'	2°3'	27.2	18
7 30	22 52.12	+15 57.6	1.782	2.576	17.0	20.0	7 30	22 53.64	-15 16.5	1.893	2.802	11.3	19.7		
8 9	22 46.51	+17 4.1	1.720	2.583	14.5	19.9	8 9	22 47.28	-15 34.8	1.846	2.812	7.7	19.5		
8 19	22 39.06	+17 45.2	1.678	2.589	12.1	19.7	8 19	22 39.32	-15 54.3	1.823	2.822	4.1	19.3		
8 29	22 30.53	+17 58.2	1.658	2.597	10.3	19.6	8 29	22 30.57	-16 10.3	1.828	2.833	2.4	19.2		
9 8	22 21.93	+17 44.1	1.662	2.605	9.7	19.6	9 8	22 21.97	-16 18.5	1.859	2.844	5.3	19.5		
9 18	22 14.26	+17 7.2	1.689	2.614	10.7	19.7	9 18	22 14.44	-16 16.4	1.918	2.855	8.9	19.7		
9 28	22 8.43	+16 14.4	1.739	2.624	12.7	19.8	9 28	22 8.70	-16 2.7	2.001	2.866	12.1	19.9		
10 8	22 5.00	+15 14.3	1.811	2.634	14.9	20.0	10 8	22 5.19	-15 37.5	2.104	2.878	14.7	20.1		
<b>523010</b>	2016 <i>PR</i> <sub>122</sub>		8 29.0	349°62'	2°0'	30.4	18	<b>249733</b>	2000 <i>SL</i> <sub>82</sub>		8 29.0	316°29'	3°1'	26.9	18
7 30	22 49.45	- 3 48.8	1.243	2.153	15.9	20.8	7 30	22 51.01	-12 32.0	1.103	2.033	15.6	19.5		
8 9	22 45.12	- 3 55.4	1.182	2.144	11.5	20.5	8 9	22 46.69	-13 29.4	1.033	2.010	10.9	19.2		
8 19	22 38.51	- 4 18.8	1.141	2.137	6.5	20.2	8 19	22 39.56	-14 38.4	0.984	1.987	5.7	18.8		
8 29	22 30.53	- 4 55.0	1.123	2.131	2.1	19.9	8 29	22 30.57	-15 49.3	0.958	1.964	3.3	18.6		
9 8	22 22.47	- 5 37.2	1.129	2.127	5.2	20.1	9 8	22 21.21	-16 50.8	0.954	1.943	8.1	18.8		
9 18	22 15.61	- 6 18.1	1.158	2.123	10.3	20.4	9 18	22 13.10	-17 33.5	0.972	1.922	13.7	19.0		
9 28	22 11.04	- 6 50.9	1.209	2.121	14.9	20.7	9 28	22 7.68	-17 51.8	1.009	1.902	18.9	19.3		
10 8	22 9.41	- 7 10.8	1.278	2.120	18.9	20.9	10 8	22 5.78	-17 44.6	1.062	1.883	23.2	19.5		
<b>389158</b>	2009 <i>BX</i> <sub>50</sub>		8 29.0	333°80'	0°7'	29.5	18	<b>337319</b>	2001 <i>BV</i> <sub>57</sub>		8 29.0	257°78'	1°5'	30.3	18
7 30	22 52.79	- 6 31.9	1.744	2.641	12.7	20.8	7 30	22 53.06	- 3 35.8	2.001	2.883	12.0	20.9		
8 9	22 46.92	- 6 43.8	1.680	2.639	9.0	20.5	8 9	22 47.10	- 3 51.7	1.915	2.865	8.7	20.7		
8 19	22 39.24	- 7 5.6	1.640	2.637	4.8	20.3	8 19	22 39.39	- 4 19.5	1.854	2.846	5.0	20.4		
8 29	22 30.54	- 7 33.4	1.626	2.635	0.7	20.0	8 29	22 30.58	- 4 56.3	1.819	2.827	1.6	20.2		
9 8	22 21.82	- 8 2.4	1.638	2.633	4.3	20.3	9 8	22 21.56	- 5 37.3	1.812	2.807	4.0	20.3		
9 18	22 14.07	- 8 27.7	1.677	2.632	8.6	20.5	9 18	22 13.26	- 6 17.8	1.833	2.787	8.0	20.5		
9 28	22 8.17	- 8 45.5	1.741	2.631	12.4	20.7	9 28	22 6.54	- 6 53.0	1.879	2.767	11.7	20.7		
10 8	22 4.63	- 8 53.1	1.825	2.629	15.6	21.0	10 8	22 2.02	- 7 19.1	1.948	2.746	14.9	20.9		
<b>18092</b>	Reinhold		8 29.0	316°70'	0°6'	29.5	18	<b>41539</b>	2000 <i>RA</i> <sub>32</sub>		8 29.0	248°43'	4°6'	1.4	18
7 30	22 50.45	- 5 57.9	1.794	2.692	12.4	18.0	7 30	22 54.28	+ 2 59.6	1.525	2.394	15.8	19.4		
8 9	22 45.31	- 6 24.2	1.725	2.684	8.8	17.7	8 9	22 48.31	+ 3 2.2	1.449	2.384	12.1	19.1		
8 19	22 38.43	- 7 1.7	1.680	2.677	4.7	17.5	8 19	22 40.13	+ 2 43.9	1.395	2.374	8.1	18.9		
8 29	22 30.54	- 7 46.0	1.660	2.670	0.6	17.1	8 29	22 30.58	+ 2 6.4	1.364	2.363	4.9	18.7		
9 8	22 22.58	- 8 31.5	1.668	2.663	4.3	17.4	9 8	22 20.80	+ 1 14.3	1.360	2.352	5.7	18.7		
9 18	22 15.48	- 9 12.9	1.702	2.657	8.5	17.7	9 18	22 12.01	+ 0 14.6	1.381	2.340	9.6	18.9		
9 28	22 10.10	- 9 45.5	1.760	2.650	12.2	17.9	9 28	22 5.30	- 0 44.7	1.426	2.329	13.7	19.1		
10 8	22 6.98	-10 6.1	1.839	2.644	15.4	18.1	10 8	22 1.37	- 1 36.7	1.491	2.317	17.4	19.3		
<b>431324</b>	2006 <i>WR</i> <sub>139</sub>		8 29.0	267°89'	0°3'	29.3	17	<b>400905</b>	2010 <i>RC</i> <sub>184</sub>		8 29.0	355°37'	0°8'	28.2	18
7 30	22 53.02	- 6 9.9	1.569	2.469	13.7	21.6	7 30	22 48.18	- 8 9.2	1.880	2.785	11.6	20.6		
8 9	22 47.38	- 6 45.7	1.494	2.454	9.7	21.4	8 9	22 43.65	- 9 12.3	1.819	2.783	8.0	20.4		
8 19	22 39.62	- 7 35.0	1.441	2.440	5.1	21.1	8 19	22 37.55	-10 25.2	1.782	2.782	4.0	20.1		
8 29	22 30.54	- 8 32.5	1.415	2.425	0.3	20.7	8 29	22 30.57	-11 42.0	1.772	2.781	0.8	19.9		
9 8	22 21.25	- 9 31.2	1.414	2.409	4.9	21.0	9 8	22 23.57	-12 55.5	1.789	2.781	4.6	20.2		
9 18	22 12.92	-10 24.0	1.440	2.394	9.8	21.2	9 18	22 17.39	-13 59.7	1.834	2.780	8.5	20.4		
9 28	22 6.59	-11 5.1	1.489	2.378	14.1	21.4	9 28	22 12.80	-14 49.9	1.902	2.780	12.0	20.6		
10 8	22 2.94	-11 31.1	1.557	2.362	17.8	21.7	10 8	22 10.29	-15 23.7	1.992	2.781	15.0	20.8		
<b>352014</b>	2006 <i>VC</i> <sub>5</sub>		8 29.0	315°47'	1°6'	30.4	18	<b>523162</b>	2016 <i>TX</i> <sub>97</sub>		8 29.0	341°36'	1°0'	28.2	18
7 30	22 51.24	- 3 29.0	1.814	2.702	12.7	20.6	7 30	22 48.48	- 8 46.2	1.372	2.290	14.0	20.6		
8 9	22 45.83	- 3 41.8	1.745	2.697	9.2	20.4	8 9	22 44.34	- 9 37.8	1.310	2.280	9.7	20.3		
8 19	22 38.69	- 4 7.1	1.699	2.692	5.2	20.1	8 19	22 38.08	-10 41.9	1.269	2.271	4.9	20.0		
8 29	22 30.56	- 4 41.7	1.679	2.687	1.8	19.9	8 29	22 30.57	-11 51.2	1.253	2.262	1.1	19.7		
9 8	22 22.35	- 5 20.7	1.686	2.682	4.1	20.0	9 8	22 22.97	-12 56.9	1.262	2.255	5.8	20.0		
9 18	22 15.02	- 5 58.9	1.720	2.677	8.2	20.3	9 18	22 16.45	-13 51.4	1.295	2.248	10.6	20.3		
9 28	22 9.41	- 6 31.4	1.779	2.673	11.9	20.5	9 28	22 12.04	-14 28.8	1.349	2.243	15.0	20.5		
10 8	22 6.05	- 6 54.5	1.858	2.669	15.1	20.7	10 8	22 10.35	-14 46.8	1.423	2.238	18.6	20.8		
<b>10192</b>	1996 <i>OQ</i> <sub>1</sub>		8 29.0	52°99'	0°2'	29.2	18	<b>21669</b>	1999 <i>RF</i> <sub>8</sub>		8 29.0	170°54'	0°4'	29.3	18
7 30	22 51.16	- 6 53.0	1.870	2.767	12.0	18.1	7 30	22 55.47	- 6 13.1	1.832	2.721	12.6	19.6		
8 9	22 45.67	- 7 21.5	1.810	2.770	8.4	17.9	8 9	22 48.70	- 6 45.3	1.770	2.726	8.8	19.4		
8 19	22 38.56	- 7 59.6	1.775	2.773	4.4	17.6	8 19	22 40.14	- 7 27.8	1.733	2.729	4.6	19.2		
8 29	22 30.56	- 8 42.7	1.767	2.777	0.2	17.3	8 29	22 30.59	- 8 16.2	1.722	2.732	0.4	18.9		
9 8	22 22.59	- 9 25.5	1.786	2.780	4.2	17.7	9 8	22 21.06	- 9 4.4	1.740	2.734	4.3	19.2		
9 18	22 15.53	-10 3.1	1.831	2.784	8.1	17.9	9 18	22 12.52	- 9 47.2	1.786	2.735	8.5	19.4		
9 28	22 10.15	-10 31.3	1.902	2.787	11.7	18.1	9 28	22 5.82	-10 20.2	1.856	2.736	12.2	19.7		
10 8	22 6.94	-10 47.9	1.993	2.791	14.7	18.3	10 8	22 1.50	-10 41.1	1.948	2.736	15.3	19.9		
<b>246499</b>	2008 <i>AH</i> <sub>37</sub>		8 29.0	298°64'	1°0'	28.0	18	<b>280325</b>	2003 <i>SK</i> <sub>20</sub>		8 29.0	14°05'	0°7'	29.6	18
7 30	22 50.24	- 9 52.0	1.890	2.795	11.5	21.1	7 30	22 48.25	- 4 47.0	1.232	2.146	15.6	19.8		
8 9	22 45.10	-10 37.8	1.824	2.789	7.9	20.9	8 9	22 44.18	- 5 30.2	1.183	2.150	11.0	19.5		
8 19	22 38.30	-11 31.4	1.783	2.783	4.0	20.6	8 19	22 37.97	- 6 30.4	1.156	2.155	5.9	19.2		
8 29	22 30.56	-12 27.4	1.768	2.777	1.1	20.4	8 29	22 30.59	- 7 40.5	1.152	2.162	0.8	18.9		
9 8	22 22.77	-13 19.7	1.781	2.772	4.8	20.7	9 8	22 23.29	- 8 51.3	1.172	2.169	5.2	19.3		
9 18	22 15.82	-14 3.0	1.821	2.766	8.7	20.9	9 18	22 17.25	- 9 54.2	1.216	2.178	10.2	19.6		
9 28	22 10.52	-14 33.6	1.884	2.760	12.2	21.1	9 28	22 13.46	-10 42.4	1.282	2.188	14.7	19.9		
10 8	22 7.39	-14 49.5	1.969	2.755	15.2	21.3	10 8	22 12.43	-11 12.2	1.366	2.198	18.4	20.1		
<b>234864</b>	2002 <i>RN</i> <sub>267</sub>		8 29.0	4											

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>12104</b>	Chesley		8 29.0	74°58'	5°3'/23.3	18 R	<b>1854</b>	Skvortsov		8 29.0	245°95'	1°5'/30.5	18 R
7 30	22 51.42	-23 30.1	2.073	2.986	10.2	17.2	7 30	22 51.51	-2 25.6	1.871	2.754	12.7	16.8
8 9	22 45.81	-24 39.3	2.027	2.988	7.5	17.1	8 9	22 46.08	-3 1.5	1.794	2.743	9.2	16.6
8 19	22 38.63	-25 44.1	2.007	2.990	5.6	16.9	8 19	22 38.89	-3 52.2	1.739	2.732	5.2	16.3
8 29	22 30.60	-26 37.5	2.013	2.993	5.7	17.0	8 29	22 30.63	-4 53.7	1.712	2.720	1.7	16.1
9 8	22 22.64	-27 14.4	2.046	2.995	7.8	17.1	9 8	22 22.23	-6 0.0	1.712	2.708	4.1	16.2
9 18	22 15.60	-27 31.9	2.105	2.998	10.5	17.3	9 18	22 14.61	-7 4.7	1.739	2.695	8.2	16.4
9 28	22 10.23	-27 29.4	2.186	3.000	13.1	17.4	9 28	22 8.66	-8 1.8	1.792	2.682	12.0	16.6
10 8	22 7.00	-27 8.8	2.286	3.003	15.3	17.6	10 8	22 4.94	-8 47.0	1.865	2.669	15.3	16.8
<b>442773</b>	2012 XO <sub>105</sub>		8 29.0	248°12'	1°6'/30.4	18	<b>142744</b>	2002 TL <sub>293</sub>		8 29.0	288°32'	4°8'/1.6	18
7 30	22 53.28	-3 49.4	2.108	2.987	11.6	21.6	7 30	22 52.36	+3 19.0	1.507	2.378	15.8	19.4
8 9	22 47.13	-3 54.2	2.027	2.975	8.4	21.4	8 9	22 47.05	+3 23.7	1.428	2.363	12.2	19.2
8 19	22 39.36	-4 9.3	1.971	2.963	4.8	21.1	8 19	22 39.54	+3 7.1	1.369	2.348	8.3	18.9
8 29	22 30.61	-4 32.2	1.943	2.950	1.7	20.9	8 29	22 30.64	+2 30.3	1.335	2.333	5.1	18.7
9 8	22 21.72	-4 59.1	1.942	2.937	3.8	21.0	9 8	22 21.47	+1 38.1	1.326	2.317	5.8	18.7
9 18	22 13.57	-5 25.9	1.970	2.924	7.6	21.2	9 18	22 13.22	+0 37.2	1.342	2.302	9.6	18.9
9 28	22 6.95	-5 48.7	2.023	2.910	11.0	21.4	9 28	22 7.00	-0 24.2	1.381	2.287	13.8	19.1
10 8	22 2.42	-6 4.4	2.099	2.896	14.0	21.6	10 8	22 3.54	-1 18.7	1.440	2.273	17.6	19.3
<b>511281</b>	2014 DU <sub>33</sub>		8 29.0	83°98'	2°5'/26.9	17	<b>122505</b>	2000 QB <sub>197</sub>		8 29.0	35°35'	2°3'/27.7	17
7 30	22 54.79	-15 18.4	1.836	2.745	11.6	21.3	7 30	22 53.73	-11 40.7	0.974	1.905	17.1	18.7
8 9	22 48.11	-15 48.9	1.792	2.758	7.9	21.1	8 9	22 48.24	-12 23.3	0.941	1.917	11.7	18.5
8 19	22 39.77	-16 20.8	1.772	2.771	4.2	20.9	8 19	22 40.09	-13 14.4	0.928	1.931	5.9	18.2
8 29	22 30.61	-16 48.5	1.779	2.784	2.7	20.9	8 29	22 30.64	-14 4.2	0.938	1.946	2.4	18.1
9 8	22 21.63	-17 7.3	1.814	2.797	5.7	21.1	9 8	22 21.54	-14 43.3	0.969	1.961	7.3	18.4
9 18	22 13.77	-17 14.2	1.875	2.810	9.2	21.3	9 18	22 14.28	-15 5.4	1.023	1.978	12.6	18.8
9 28	22 7.79	-17 7.7	1.961	2.822	12.5	21.6	9 28	22 9.93	-15 7.7	1.096	1.995	17.2	19.1
10 8	22 4.14	-16 48.3	2.066	2.835	15.2	21.8	10 8	22 8.92	-14 50.5	1.186	2.013	20.9	19.4
<b>136933</b>	1998 QX <sub>4</sub>		8 29.0	322°92'	4°9'/1.5	18	<b>223444</b>	2003 SH <sub>308</sub>		8 29.0	14°41'	9°9'/8.6	18
7 30	22 50.60	+2 52.7	1.290	2.174	17.1	18.7	7 30	22 50.51	+20 23.8	2.105	2.858	16.0	19.2
8 9	22 46.00	+2 56.9	1.218	2.161	13.2	18.5	8 9	22 45.29	+21 18.1	2.035	2.861	14.0	19.0
8 19	22 39.05	+2 37.3	1.167	2.149	8.9	18.2	8 19	22 38.45	+21 47.4	1.984	2.863	12.1	18.9
8 29	22 30.61	+1 55.4	1.138	2.137	5.3	18.0	8 29	22 30.64	+21 49.4	1.955	2.867	10.5	18.8
9 8	22 21.94	+0 56.8	1.133	2.126	6.1	18.0	9 8	22 22.72	+21 24.9	1.949	2.871	9.9	18.8
9 18	22 14.35	-0 10.3	1.151	2.116	10.3	18.2	9 18	22 15.56	+20 37.4	1.966	2.875	10.4	18.8
9 28	22 9.03	-1 16.3	1.191	2.106	14.8	18.4	9 28	22 9.95	+19 33.2	2.008	2.879	11.8	18.9
10 8	22 6.71	-2 13.1	1.251	2.097	18.9	18.7	10 8	22 6.45	+18 20.2	2.071	2.884	13.6	19.1
<b>521740</b>	2015 RQ <sub>272</sub>		8 29.0	285°84'	0°3'/29.3	18	<b>209808</b>	2005 GL <sub>66</sub>		8 29.0	27°50'	0°4'/28.7	18
7 30	22 48.25	-5 30.9	2.164	3.056	10.8	21.4	7 30	22 51.32	-8 25.3	1.714	2.619	12.5	20.3
8 9	22 43.60	-6 20.2	2.090	3.047	7.6	21.2	8 9	22 45.92	-9 0.1	1.658	2.621	8.7	20.1
8 19	22 37.52	-7 20.4	2.041	3.038	4.0	20.9	8 19	22 38.76	-9 43.9	1.624	2.624	4.4	19.8
8 29	22 30.61	-8 26.9	2.019	3.029	0.3	20.6	8 29	22 30.65	-10 31.4	1.617	2.627	0.4	19.5
9 8	22 23.62	-9 34.1	2.026	3.020	3.8	20.9	9 8	22 22.56	-11 16.6	1.637	2.630	4.7	19.9
9 18	22 17.30	-10 36.6	2.060	3.011	7.5	21.1	9 18	22 15.47	-11 54.2	1.683	2.633	8.9	20.1
9 28	22 12.36	-11 29.6	2.120	3.002	10.8	21.3	9 28	22 10.20	-12 20.1	1.752	2.637	12.6	20.4
10 8	22 9.29	-12 9.9	2.202	2.994	13.6	21.5	10 8	22 7.26	-12 32.4	1.843	2.641	15.7	20.6
<b>59707</b>	1999 JX <sub>121</sub>		8 29.0	349°24'	12°0'/18.6	18	<b>255272</b>	2005 VT <sub>52</sub>		8 29.0	331°39'	1°0'/28.2	18
7 30	22 44.62	-29 5.9	0.955	1.899	15.9	17.1	7 30	22 48.58	-9 22.3	1.705	2.616	12.2	19.9
8 9	22 42.45	-31 12.0	0.914	1.883	13.1	16.8	8 9	22 44.14	-10 7.9	1.636	2.603	8.4	19.6
8 19	22 37.39	-33 5.2	0.893	1.869	12.0	16.7	8 19	22 37.93	-11 2.9	1.590	2.591	4.3	19.4
8 29	22 30.61	-34 28.5	0.892	1.856	13.3	16.8	8 29	22 30.65	-12 1.8	1.571	2.580	1.0	19.1
9 8	22 23.80	-35 10.0	0.909	1.847	16.4	16.9	9 8	22 23.27	-12 57.6	1.577	2.569	5.0	19.4
9 18	22 18.63	-35 5.5	0.943	1.839	19.9	17.1	9 18	22 16.75	-13 44.3	1.609	2.559	9.3	19.6
9 28	22 16.41	-34 17.5	0.992	1.834	23.2	17.3	9 28	22 11.98	-14 17.3	1.665	2.549	13.1	19.8
10 8	22 17.71	-32 53.4	1.054	1.832	26.1	17.5	10 8	22 9.53	-14 34.3	1.740	2.540	16.4	20.0
<b>322507</b>	2011 WO <sub>27</sub>		8 29.0	201°79'	4°4'/3.5	18	<b>304581</b>	2006 VB <sub>46</sub>		8 29.0	348°43'	3°4'/1.0	18
7 30	22 49.39	+8 20.7	2.631	3.452	11.4	20.7	7 30	22 50.08	+1 12.5	1.775	2.650	13.7	20.7
8 9	22 44.19	+8 10.6	2.549	3.448	9.1	20.5	8 9	22 45.08	+1 6.8	1.707	2.647	10.3	20.5
8 19	22 37.76	+7 44.2	2.491	3.444	6.7	20.4	8 19	22 38.36	+0 44.4	1.661	2.644	6.6	20.3
8 29	22 30.63	+7 2.7	2.459	3.440	4.8	20.2	8 29	22 30.66	+0 7.7	1.641	2.642	3.6	20.1
9 8	22 23.42	+6 9.1	2.455	3.435	4.6	20.2	9 8	22 22.89	+0 38.7	1.647	2.640	4.6	20.2
9 18	22 16.78	+5 7.6	2.480	3.429	6.5	20.3	9 18	22 15.99	+1 29.0	1.678	2.639	8.1	20.4
9 28	22 11.31	+4 3.2	2.531	3.424	8.9	20.5	9 28	22 10.80	+2 17.2	1.735	2.638	11.7	20.6
10 8	22 7.45	+3 0.9	2.607	3.418	11.2	20.6	10 8	22 7.85	+2 58.0	1.813	2.637	14.9	20.8
<b>472822</b>	2015 FP <sub>173</sub>		8 29.0	219°33'	0°6'/28.4	17	<b>309656</b>	2008 DH <sub>61</sub>		8 29.0	111°96'	1°1'/27.9	18
7 30	22 51.54	-7 26.4	1.691	2.593	12.8	21.7	7 30	22 50.48	-10 19.3	2.118	3.020	10.6	21.3
8 9	22 46.17	-8 30.3	1.627	2.590	8.9	21.4	8 9	22 45.08	-11 3.9	2.062	3.025	7.3	21.1
8 19	22 38.94	-9 46.1	1.586	2.586	4.5	21.2	8 19	22 38.26	-11 54.5	2.030	3.030	3.6	20.9
8 29	22 30.63	-11 7.2	1.572	2.582	0.7	20.9	8 29	22 30.66	-12 46.3	2.026	3.035	1.1	20.7
9 8	22 22.25	-12 25.6	1.586	2.578	5.0	21.2	9 8	22 23.10	-13 33.9	2.051	3.040	4.4	21.0
9 18	22 14.81	-13 34.1	1.626	2.573	9.4	21.4	9 18	22 16.35	-14 13.0	2.103	3.045	7.9	21.2
9 28	22 9.23	-14 27.3	1.690	2.569	13.3	21.7	9 28	22 11.10	-14 40.4	2.179	3.050	11.0	21.4
10 8	22 6.05	-15 2.7	1.774	2.564	16.5	21.9	10 8	22 7.80	-14 54.8	2.278	3.055	13.7	21.6
<b>367291</b>	2007 UG <sub>89</sub>		8 29.0	81°81'	2°8'/27.1	17	<b>349388</b>	2007 WC <sub>62</sub>		8 29.0	300°07'	6°6'/3.9	18
7 30	22 56.27	-13 16.4	1.301	2.218	14.7	21.1	7 30	22 50.83	+9 28.0				

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>400088</b>	2006 <i>SB</i> <sub>368</sub>		8 29.0 356°97	16°7/16.8	14	C	<b>444394</b>	2005 <i>YW</i> <sub>245</sub>		8 29.0 172°95	1°7/31.2	18	
7 30	22 43.46	+29 33.2	0.984	1.758	28.9	20.8	7 30	22 49.09	-1 15.0	2.742	3.608	9.6	21.9
8 9	22 41.55	+29 49.5	0.922	1.754	26.3	20.5	8 9	22 43.91	-1 37.2	2.671	3.610	7.0	21.7
8 19	22 36.95	+29 5.3	0.871	1.752	23.3	20.3	8 19	22 37.61	-2 9.4	2.625	3.612	4.2	21.6
8 29	22 30.65	+27 11.8	0.832	1.750	20.1	20.1	8 29	22 30.69	-2 49.3	2.608	3.613	1.8	21.4
9 8	22 24.19	+24 9.7	0.810	1.749	17.6	20.0	9 8	22 23.76	-3 33.2	2.620	3.614	3.0	21.5
9 18	22 19.16	+20 11.7	0.807	1.750	16.7	19.9	9 18	22 17.39	-4 17.5	2.661	3.615	5.8	21.7
9 28	22 16.92	+15 42.5	0.824	1.752	18.1	20.0	9 28	22 12.16	-4 58.6	2.729	3.616	8.5	21.9
10 8	22 18.20	+11 11.8	0.863	1.755	21.0	20.2	10 8	22 8.44	-5 33.4	2.821	3.616	10.9	22.0
<b>485747</b>	2012 <i>BT</i> <sub>103</sub>		8 29.0 187°22	0°9/29.9	18		<b>374788</b>	2006 <i>TA</i> <sub>40</sub>		8 29.0 1°22	6°3/2.9	17	
7 30	22 53.32	-5 51.7	2.614	3.491	9.7	21.1	7 30	22 48.71	+6 15.6	1.154	2.034	19.0	20.7
8 9	22 46.85	-5 47.4	2.543	3.491	6.9	21.0	8 9	22 44.76	+6 12.8	1.096	2.032	14.9	20.5
8 19	22 39.11	-5 49.6	2.497	3.490	3.8	20.8	8 19	22 38.44	+5 39.4	1.056	2.031	10.5	20.2
8 29	22 30.67	-5 56.3	2.481	3.489	1.0	20.5	8 29	22 30.71	+4 37.2	1.037	2.031	6.9	20.0
9 8	22 22.23	-6 4.7	2.494	3.488	3.2	20.7	9 8	22 22.91	+3 13.7	1.040	2.032	6.9	20.0
9 18	22 14.45	-6 12.4	2.537	3.487	6.3	20.9	9 18	22 16.37	+1 39.6	1.067	2.034	10.6	20.3
9 28	22 7.96	-6 16.9	2.606	3.485	9.2	21.1	9 28	22 12.22	+0 6.9	1.115	2.037	14.9	20.5
10 8	22 3.18	-6 16.1	2.700	3.483	11.6	21.3	10 8	22 11.12	-1 14.1	1.182	2.040	18.9	20.8
<b>60243</b>	1999 <i>VM</i> <sub>184</sub>		8 29.0 352°42	3°9/25.9	18		<b>166093</b>	2002 <i>CV</i> <sub>139</sub>		8 29.0 265°41	3°0/31.1	17	
7 30	22 52.48	-16 55.8	1.528	2.448	12.7	18.9	7 30	22 54.98	-1 0.5	1.455	2.341	15.5	21.1
8 9	22 46.95	-17 50.0	1.475	2.446	8.9	18.7	8 9	22 48.98	-1 5.2	1.377	2.325	11.5	20.8
8 19	22 39.38	-18 45.8	1.446	2.444	5.1	18.5	8 19	22 40.62	-1 28.0	1.319	2.309	7.0	20.5
8 29	22 30.68	-19 35.3	1.442	2.443	4.2	18.4	8 29	22 30.73	-2 6.2	1.287	2.292	3.2	20.3
9 8	22 22.02	-20 11.4	1.464	2.442	7.4	18.6	9 8	22 20.53	-2 54.1	1.280	2.275	5.2	20.4
9 18	22 14.53	-20 29.5	1.510	2.441	11.3	18.8	9 18	22 11.33	-3 45.0	1.298	2.258	10.0	20.6
9 28	22 9.16	-20 28.1	1.578	2.441	14.9	19.1	9 28	22 4.31	-4 31.4	1.340	2.241	14.5	20.8
10 8	22 6.45	-20 7.9	1.665	2.441	18.0	19.3	10 8	22 0.23	-5 7.5	1.401	2.223	18.5	21.0
<b>137945</b>	2000 <i>BF</i> <sub>49</sub>		8 29.0 199°86	0°6/28.6	18		<b>167713</b>	2004 <i>TX</i> <sub>206</sub>		8 29.0 352°44	3°2/26.9	17	
7 30	22 53.74	-8 12.8	1.786	2.684	12.4	20.9	7 30	22 54.39	-13 48.8	1.140	2.066	15.6	20.1
8 9	22 47.63	-8 59.6	1.721	2.682	8.6	20.7	8 9	22 48.75	-14 36.6	1.089	2.063	10.8	19.8
8 19	22 39.69	-9 56.1	1.680	2.679	4.4	20.5	8 19	22 40.48	-15 30.7	1.060	2.061	5.7	19.6
8 29	22 30.69	-10 56.6	1.665	2.675	0.6	20.2	8 29	22 30.73	-16 21.7	1.054	2.060	3.4	19.4
9 8	22 21.63	-11 54.6	1.679	2.671	4.8	20.5	9 8	22 21.01	-17 0.4	1.072	2.059	7.7	19.7
9 18	22 13.52	-12 44.1	1.720	2.666	9.0	20.7	9 18	22 12.83	-17 20.7	1.112	2.059	12.8	20.0
9 28	22 7.24	-13 20.8	1.785	2.661	12.8	20.9	9 28	22 7.36	-17 19.9	1.172	2.059	17.3	20.2
10 8	22 3.35	-13 42.5	1.870	2.656	15.9	21.1	10 8	22 5.22	-16 58.5	1.250	2.059	21.0	20.5
<b>282756</b>	2006 <i>HX</i> <sub>17</sub>		8 29.0 28°29	10°0/7.1	17		<b>10011</b>	<i>Avidzba</i>		8 29.0 312°75	0°7/29.7	18	
7 30	22 49.16	+14 49.4	1.268	2.100	20.5	18.8	7 30	22 50.41	-4 28.5	1.420	2.324	14.6	17.3
8 9	22 44.78	+15 20.6	1.224	2.117	17.2	18.7	8 9	22 45.70	-5 13.8	1.352	2.314	10.4	17.0
8 19	22 38.29	+15 16.5	1.198	2.135	13.8	18.5	8 19	22 38.86	-6 16.0	1.307	2.304	5.6	16.7
8 29	22 30.68	+14 36.7	1.191	2.154	11.0	18.4	8 29	22 30.72	-7 29.3	1.285	2.295	0.8	16.4
9 8	22 23.20	+13 26.4	1.207	2.174	10.0	18.4	9 8	22 22.43	-8 45.2	1.290	2.286	5.0	16.7
9 18	22 17.02	+11 55.0	1.244	2.195	11.3	18.6	9 18	22 15.19	-9 55.2	1.319	2.277	10.0	16.9
9 28	22 13.10	+10 14.4	1.304	2.217	13.9	18.8	9 28	22 10.03	-10 52.0	1.371	2.269	14.5	17.2
10 8	22 11.95	+8 36.2	1.384	2.240	16.8	19.1	10 8	22 7.61	-11 31.4	1.442	2.261	18.2	17.4
<b>443484</b>	2014 <i>JE</i> <sub>21</sub>		8 29.0 41°37	0°4/28.6	18		<b>399037</b>	2013 <i>HJ</i> <sub>50</sub>		8 29.0 239°82	1°7/27.4	18	
7 30	22 50.63	-8 4.3	1.800	2.703	12.1	20.7	7 30	22 52.02	-13 30.9	2.282	3.184	9.9	21.2
8 9	22 45.39	-8 47.5	1.743	2.705	8.4	20.4	8 9	22 46.15	-13 58.9	2.215	3.179	6.8	21.0
8 19	22 38.50	-9 40.0	1.709	2.709	4.2	20.2	8 19	22 38.84	-14 29.7	2.175	3.174	3.5	20.8
8 29	22 30.68	-10 36.3	1.702	2.712	0.5	19.9	8 29	22 30.73	-14 59.3	2.162	3.168	1.8	20.7
9 8	22 22.89	-11 30.3	1.722	2.715	4.5	20.2	9 8	22 22.60	-15 23.4	2.177	3.163	4.6	20.9
9 18	22 16.03	-12 16.3	1.769	2.718	8.6	20.5	9 18	22 15.23	-15 38.8	2.220	3.157	7.9	21.1
9 28	22 10.90	-12 50.3	1.840	2.722	12.2	20.7	9 28	22 9.31	-15 43.4	2.289	3.151	10.9	21.3
10 8	22 7.97	-13 10.2	1.931	2.726	15.2	20.9	10 8	22 5.30	-15 36.5	2.379	3.145	13.5	21.4
<b>510849</b>	2013 <i>CE</i> <sub>61</sub>		8 29.0 216°50	1°0/28.2	18		<b>42403</b>	<i>Andraimon</i>		8 29.0 298°54	1°4/26.5	17	
7 30	22 55.08	-12 5.9	2.175	3.072	10.6	21.2	7 30	22 44.90	-15 48.5	4.168	5.070	5.8	19.7
8 9	22 48.28	-12 15.4	2.107	3.068	7.3	21.0	8 9	22 40.78	-16 13.3	4.098	5.061	4.0	19.5
8 19	22 39.92	-12 28.3	2.065	3.064	3.7	20.8	8 19	22 35.95	-16 38.7	4.055	5.053	2.2	19.4
8 29	22 30.70	-12 40.9	2.051	3.059	1.1	20.6	8 29	22 30.72	-17 2.4	4.042	5.045	1.5	19.3
9 8	22 21.47	-12 49.6	2.065	3.055	4.3	20.8	9 8	22 25.48	-17 22.4	4.058	5.036	3.0	19.5
9 18	22 13.08	-12 51.5	2.108	3.050	7.9	21.0	9 18	22 20.60	-17 36.9	4.103	5.028	4.9	19.6
9 28	22 6.29	-12 44.8	2.176	3.045	11.1	21.2	9 28	22 16.43	-17 44.6	4.174	5.020	6.7	19.7
10 8	22 1.59	-12 28.7	2.267	3.039	13.9	21.4	10 8	22 13.26	-17 44.7	4.270	5.012	8.3	19.8
<b>155922</b>	2001 <i>PT</i> <sub>5</sub>		8 29.0 51°70	4°3/26.1	17		<b>399679</b>	2004 <i>TT</i> <sub>17</sub>		8 29.1 343°61	4°3/25.1	18	
7 30	22 53.89	-13 34.0	0.945	1.880	17.1	18.8	7 30	22 52.26	-20 47.0	2.013	2.925	10.5	20.5
8 9	22 48.30	-15 13.0	0.924	1.902	11.6	18.5	8 9	22 46.46	-21 27.9	1.958	2.922	7.5	20.3
8 19	22 40.10	-16 56.4	0.923	1.925	6.2	18.3	8 19	22 39.04	-22 6.3	1.928	2.919	4.9	20.2
8 29	22 30.69	-18 30.1	0.945	1.949	4.7	18.3	8 29	22 30.74	-22 36.2	1.924	2.917	4.5	20.1
9 8	22 21.79	-19 42.2	0.989	1.973	9.0	18.7	9 8	22 22.49	-22 53.0	1.948	2.914	6.9	20.3
9 18	22 14.83	-20 26.2	1.055	1.997	13.8	19.0	9 18	22 15.18	-22 54.0	1.997	2.912	9.9	20.5
9 28	22 10.82	-20 41.2	1.140	2.022	18.0	19.3	9 28	22 9.56	-22 38.6	2.070	2.910	12.8	20.7
10 8	22 10.10	-20 30.1	1.241	2.047	21.4	19.7	10 8	22 6.13	-22 7.8	2.163	2.909	15.2	20.8
<b>91204</b>	1998 <i>UW</i> <sub>32</sub>		8 29.0 15°14	7°1/23.0	18		<b>7918</b>	<i>Berrilli</i>		8 29.1 28°06	3°0/31.4	17	
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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>361965</b>	2008 <i>JC</i> <sub>31</sub>		8 29.1 87°84	4.3/24.2	18		<b>488288</b>	2016 <i>UZ</i> <sub>14</sub>		8 29.1 307°89	0.4/28.8	18	
7 30	22 50.33	-20 26.5	2.170	3.083	9.8	20.6	7 30	22 51.18	-8 10.1	1.586	2.493	13.2	21.3
8 9	22 45.04	-21 36.6	2.123	3.087	7.0	20.4	8 9	22 46.18	-8 42.5	1.509	2.473	9.3	21.0
8 19	22 38.28	-22 44.9	2.101	3.091	4.7	20.3	8 19	22 39.12	-9 26.0	1.455	2.454	4.8	20.7
8 29	22 30.74	-23 44.9	2.107	3.096	4.6	20.3	8 29	22 30.78	-10 15.5	1.426	2.436	0.4	20.3
9 8	22 23.25	-24 31.3	2.140	3.100	6.8	20.4	9 8	22 22.22	-11 4.1	1.423	2.417	5.1	20.6
9 18	22 16.59	-25 0.8	2.200	3.104	9.6	20.6	9 18	22 14.55	-11 45.6	1.446	2.399	9.8	20.8
9 28	22 11.47	-25 12.0	2.282	3.108	12.2	20.8	9 28	22 8.82	-12 14.8	1.491	2.381	14.0	21.1
10 8	22 8.33	-25 5.9	2.384	3.112	14.4	21.0	10 8	22 5.67	-12 28.8	1.557	2.364	17.7	21.3
<b>339231</b>	2004 <i>TO</i> <sub>369</sub>		8 29.1 259°11	5.7/3.6	18		<b>265033</b>	2003 <i>OF</i> <sub>15</sub>		8 29.1 359°17	7.2/2.8	18	
7 30	22 51.61	+9 19.7	2.085	2.909	13.8	22.3	7 30	22 52.34	+6 29.9	1.568	2.423	16.1	19.2
8 9	22 46.17	+9 16.8	1.989	2.888	11.2	22.1	8 9	22 46.90	+7 38.4	1.502	2.419	13.0	19.0
8 19	22 39.02	+8 52.7	1.914	2.867	8.4	21.9	8 19	22 39.44	+8 27.2	1.457	2.417	9.8	18.8
8 29	22 30.75	+8 7.8	1.865	2.844	6.1	21.7	8 29	22 30.78	+8 54.6	1.436	2.416	7.5	18.6
9 8	22 22.21	+7 5.1	1.843	2.822	6.0	21.6	9 8	22 22.01	+9 1.6	1.439	2.416	7.6	18.7
9 18	22 14.29	+5 49.9	1.847	2.798	8.2	21.7	9 18	22 14.22	+8 51.8	1.467	2.417	9.9	18.8
9 28	22 7.84	+4 29.2	1.878	2.775	11.3	21.9	9 28	22 8.42	+8 31.3	1.517	2.420	13.0	19.0
10 8	22 3.49	+3 10.5	1.932	2.750	14.3	22.0	10 8	22 5.21	+8 6.9	1.588	2.423	16.1	19.2
<b>210187</b>	2006 <i>VZ</i> <sub>64</sub>		8 29.1 35°21	2.5/25.8	18		<b>92154</b>	1999 <i>XD</i> <sub>136</sub>		8 29.1 280°38	20.5/6.7	18	
7 30	22 47.64	-17 5.8	2.759	3.667	8.2	20.2	7 30	23 4.15	-50 11.0	1.085	1.954	20.8	19.2
8 9	22 42.92	-17 50.3	2.706	3.672	5.6	20.0	8 9	22 57.21	-53 3.3	1.068	1.943	20.5	19.1
8 19	22 37.12	-18 35.1	2.680	3.677	3.3	19.9	8 19	22 45.46	-55 13.4	1.068	1.931	21.2	19.1
8 29	22 30.74	-19 16.2	2.683	3.682	2.7	19.9	8 29	22 30.82	-56 24.8	1.084	1.920	22.6	19.2
9 8	22 24.41	-19 49.6	2.713	3.687	4.7	20.0	9 8	22 16.31	-56 31.2	1.113	1.908	24.5	19.3
9 18	22 18.69	-20 12.9	2.771	3.692	7.2	20.2	9 18	22 4.84	-55 36.5	1.155	1.897	26.5	19.4
9 28	22 14.11	-20 24.4	2.855	3.698	9.6	20.3	9 28	21 58.28	-53 51.3	1.206	1.886	28.3	19.5
10 8	22 11.05	-20 23.8	2.960	3.703	11.6	20.5	10 8	21 57.02	-51 28.6	1.265	1.875	29.8	19.7
<b>248360</b>	2005 <i>QW</i> <sub>157</sub>		8 29.1 14°02	5.4/24.2	18		<b>93692</b>	2000 <i>VK</i> <sub>21</sub>		8 29.1 93°59	6°0/24.2	18	
7 30	22 52.34	-22 17.2	1.794	2.711	11.4	19.7	7 30	22 55.74	-23 16.3	1.672	2.587	12.2	18.7
8 9	22 46.65	-23 15.9	1.748	2.712	8.2	19.6	8 9	22 49.06	-24 17.6	1.632	2.594	8.9	18.5
8 19	22 39.18	-24 10.5	1.725	2.714	5.8	19.4	8 19	22 40.43	-25 12.9	1.616	2.602	6.4	18.4
8 29	22 30.76	-24 53.8	1.729	2.716	5.7	19.4	8 29	22 30.81	-25 54.5	1.626	2.610	6.3	18.4
9 8	22 22.43	-25 20.1	1.759	2.718	8.1	19.6	9 8	22 21.38	-26 16.5	1.662	2.618	8.7	18.6
9 18	22 15.18	-25 26.7	1.814	2.721	11.2	19.8	9 18	22 13.22	-26 16.6	1.722	2.626	11.9	18.8
9 28	22 9.83	-25 13.1	1.890	2.724	14.1	20.0	9 28	22 7.22	-25 55.5	1.804	2.633	14.8	19.0
10 8	22 6.87	-24 41.3	1.986	2.727	16.5	20.2	10 8	22 3.85	-25 15.8	1.904	2.641	17.3	19.2
<b>511373</b>	2014 <i>FG</i> <sub>65</sub>		8 29.1 254°87	0°0/29.0	18		<b>288548</b>	2004 <i>GC</i> <sub>44</sub>		8 29.1 161°25	1°0/28.2	17	
7 30	22 51.38	-5 58.2	2.040	2.931	11.4	22.1	7 30	22 54.93	-9 55.2	1.777	2.678	12.3	21.6
8 9	22 45.99	-6 57.1	1.954	2.911	8.1	21.8	8 9	22 48.43	-10 36.9	1.720	2.683	8.5	21.4
8 19	22 38.91	-8 8.5	1.893	2.891	4.2	21.6	8 19	22 40.12	-11 25.9	1.688	2.687	4.3	21.2
8 29	22 30.76	-9 27.2	1.860	2.870	0.0	21.2	8 29	22 30.82	-12 16.7	1.682	2.691	1.1	20.9
9 8	22 22.39	-10 46.7	1.855	2.848	4.2	21.5	9 8	22 21.56	-13 2.9	1.704	2.694	4.9	21.2
9 18	22 14.68	-12 0.4	1.879	2.826	8.3	21.7	9 18	22 13.34	-13 39.6	1.753	2.697	9.1	21.5
9 28	22 8.49	-13 2.6	1.927	2.803	12.0	21.9	9 28	22 7.00	-14 3.3	1.826	2.700	12.7	21.7
10 8	22 4.40	-13 49.9	1.998	2.780	15.1	22.1	10 8	22 3.07	-14 12.6	1.920	2.701	15.7	21.9
<b>403398</b>	2009 <i>RO</i> <sub>22</sub>		8 29.1 325°82	3°1/30.8	17		<b>174502</b>	2003 <i>BQ</i> <sub>51</sub>		8 29.1 73°10	0°9/28.2	18	
7 30	22 54.91	-3 17.2	1.670	2.556	13.8	20.6	7 30	22 51.01	-9 5.3	1.955	2.856	11.4	19.3
8 9	22 48.81	-2 32.3	1.579	2.528	10.3	20.4	8 9	22 45.47	-9 59.4	1.915	2.877	7.8	19.2
8 19	22 40.51	-1 56.8	1.511	2.500	6.4	20.1	8 19	22 38.50	-11 0.5	1.899	2.899	3.9	19.0
8 29	22 30.77	-1 30.3	1.469	2.473	3.2	19.8	8 29	22 30.82	-12 2.7	1.911	2.920	0.9	18.8
9 8	22 20.65	-1 11.3	1.453	2.447	5.0	19.9	9 8	22 23.29	-13 0.2	1.951	2.941	4.4	19.1
9 18	22 11.33	-0 57.2	1.464	2.421	9.3	20.1	9 18	22 16.71	-13 48.1	2.018	2.962	8.0	19.3
9 28	22 3.90	-0 44.5	1.498	2.397	13.4	20.3	9 28	22 11.75	-14 23.2	2.110	2.983	11.2	19.6
10 8	21 59.13	-0 29.7	1.553	2.373	17.1	20.4	10 8	22 8.82	-14 44.1	2.223	3.004	13.8	19.8
<b>35754</b>	1999 <i>GN</i> <sub>50</sub>		8 29.1 43°77	5.2/25.7	18		<b>418214</b>	2008 <i>CT</i> <sub>159</sub>		8 29.1 54°89	5.7/24.6	17	
7 30	22 54.61	-17 5.1	1.026	1.960	16.2	17.9	7 30	22 53.56	-17 59.7	1.186	2.115	14.8	19.4
8 9	22 48.80	-18 16.3	1.000	1.976	11.2	17.7	8 9	22 47.87	-19 44.3	1.163	2.137	10.3	19.2
8 19	22 40.39	-19 27.4	0.994	1.993	6.6	17.5	8 19	22 39.89	-21 27.0	1.163	2.159	6.5	19.1
8 29	22 30.77	-20 26.7	1.011	2.011	5.5	17.5	8 29	22 30.84	-22 55.2	1.187	2.181	6.2	19.1
9 8	22 21.57	-21 5.1	1.050	2.030	9.2	17.8	9 8	22 22.16	-23 59.5	1.234	2.204	9.5	19.4
9 18	22 14.24	-21 18.2	1.111	2.049	13.7	18.1	9 18	22 15.12	-24 35.3	1.305	2.227	13.4	19.7
9 28	22 9.79	-21 6.2	1.191	2.068	17.8	18.4	9 28	22 10.66	-24 42.9	1.395	2.250	17.0	20.0
10 8	22 8.61	-20 32.2	1.288	2.088	21.0	18.7	10 8	22 9.18	-24 25.6	1.502	2.273	19.8	20.3
<b>337029</b>	1995 <i>SV</i> <sub>35</sub>		8 29.1 298°27	0.6/28.6	18		<b>68139</b>	2001 <i>AV</i> <sub>24</sub>		8 29.1 286°28	5.1/1.8	18	
7 30	22 53.17	-9 21.7	1.609	2.515	13.1	20.4	7 30	22 52.88	+3 54.8	1.407	2.279	16.7	18.8
8 9	22 47.50	-9 44.1	1.536	2.501	9.1	20.1	8 9	22 47.53	+3 59.3	1.334	2.269	12.9	18.6
8 19	22 39.76	-10 15.3	1.486	2.486	4.7	19.8	8 19	22 39.91	+3 40.6	1.282	2.259	8.8	18.3
8 29	22 30.77	-10 50.3	1.462	2.472	0.6	19.5	8 29	22 30.84	+2 59.9	1.252	2.249	5.5	18.1
9 8	22 21.62	-11 23.1	1.465	2.458	5.1	19.8	9 8	22 21.55	+2 2.4	1.247	2.239	6.1	18.1
9 18	22 13.44	-11 48.5	1.493	2.444	9.7	20.0	9 18	22 13.30	+0 55.7	1.267	2.229	9.9	18.3
9 28	22 7.23	-12 2.3	1.544	2.430	13.9	20.3	9 28	22 7.22	-0 11.2	1.310	2.219	14.2	18.5
10 8	22 3.64	-12 2.5	1.615	2.417	17.4	20.5	10 8	22 4.02	-1 10.3	1.372	2.209	18.0	18.7
<b>437144</b>	2012 <i>VG</i> <sub>13</sub>		8 29.1 10°99	3.0/27.1	18		<b>286999</b>	2002 <i>QF</i> <sub>60</sub>		8 29.1 335°50	4.4/1.4	18	

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>132096</b>	2002 CW <sub>194</sub>		8 29.1 313°92	0°1/28.9	18		<b>220693</b>	2004 RN <sub>309</sub>		8 29.1 289°66	3°7/	1.8	18
7 30	22 51.72	- 7 15.0	1.545	2.450	13.6	20.1	7 30	22 50.02	+ 3 27.8	2.213	3.067	12.1	20.1
8 9	22 46.49	- 7 52.7	1.480	2.444	9.5	19.8	8 9	22 44.88	+ 3 27.9	2.136	3.061	9.3	19.9
8 19	22 39.25	- 8 42.2	1.439	2.438	4.9	19.5	8 19	22 38.30	+ 3 13.0	2.083	3.056	6.3	19.7
8 29	22 30.84	- 9 38.1	1.422	2.432	0.1	19.1	8 29	22 30.88	+ 2 44.4	2.055	3.050	4.0	19.6
9 8	22 22.35	-10 33.0	1.432	2.427	4.9	19.5	9 8	22 23.37	+ 2 5.6	2.055	3.045	4.4	19.6
9 18	22 14.89	-11 20.4	1.467	2.421	9.6	19.8	9 18	22 16.53	+ 1 20.9	2.083	3.039	7.0	19.7
9 28	22 9.41	-11 55.2	1.526	2.416	13.7	20.0	9 28	22 11.08	+ 0 35.4	2.136	3.034	10.0	19.9
10 8	22 6.52	-12 14.6	1.604	2.411	17.2	20.2	10 8	22 7.50	- 0 6.3	2.213	3.028	12.8	20.1
<b>220831</b>	2004 TE <sub>360</sub>		8 29.1 219°07	0°0/29.0	18		<b>390309</b>	2013 AV <sub>106</sub>		8 29.1 317°16	2°4/	2.3	17
7 30	22 52.79	- 8 52.2	2.483	3.371	9.7	20.3	7 30	22 44.77	+ 3 48.5	4.139	4.975	7.3	20.2
8 9	22 46.61	- 9 0.0	2.411	3.367	6.8	20.2	8 9	22 40.74	+ 3 48.8	4.057	4.970	5.6	20.1
8 19	22 39.10	- 9 13.2	2.365	3.362	3.5	19.9	8 19	22 36.00	+ 3 40.9	4.000	4.966	3.9	20.0
8 29	22 30.84	- 9 28.7	2.347	3.357	0.0	19.6	8 29	22 30.86	+ 3 25.7	3.971	4.961	2.6	19.9
9 8	22 22.56	- 9 43.4	2.359	3.352	3.5	19.9	9 8	22 25.69	+ 3 4.9	3.972	4.957	2.7	19.9
9 18	22 14.96	- 9 54.4	2.400	3.347	6.8	20.1	9 18	22 20.86	+ 2 40.3	4.001	4.952	4.2	20.0
9 28	22 8.69	- 9 59.4	2.467	3.341	9.8	20.3	9 28	22 16.70	+ 2 14.3	4.058	4.948	5.9	20.1
10 8	22 4.20	- 9 56.7	2.557	3.335	12.3	20.5	10 8	22 13.51	+ 1 49.2	4.141	4.944	7.5	20.2
<b>316152</b>	2009 SV <sub>361</sub>		8 29.1 355°48	4°1/	4.7	17	<b>39809</b>	Fukuchan		8 29.1 340°98	6°4/24.8	18	
7 30	22 44.82	+10 20.4	3.622	4.423	8.9	20.0	7 30	22 47.48	-17 42.0	0.881	1.829	16.5	18.1
8 9	22 40.86	+10 27.6	3.541	4.421	7.3	19.9	8 9	22 44.59	-19 2.7	0.829	1.811	11.7	17.8
8 19	22 36.08	+10 22.8	3.484	4.420	5.6	19.8	8 19	22 38.67	-20 28.5	0.796	1.796	7.4	17.5
8 29	22 30.84	+10 6.5	3.453	4.418	4.4	19.7	8 29	22 30.88	-21 45.1	0.782	1.782	7.0	17.4
9 8	22 25.55	+ 9 40.2	3.450	4.417	4.1	19.7	9 8	22 22.91	-22 38.7	0.789	1.770	11.2	17.6
9 18	22 20.66	+ 9 6.4	3.475	4.416	5.1	19.8	9 18	22 16.54	-23 0.7	0.815	1.760	16.4	17.9
9 28	22 16.55	+ 8 27.9	3.526	4.415	6.7	19.9	9 28	22 13.20	-22 48.5	0.857	1.752	21.3	18.1
10 8	22 13.55	+ 7 48.2	3.603	4.415	8.4	20.0	10 8	22 13.62	-22 4.8	0.914	1.745	25.3	18.4
<b>238547</b>	2004 VL <sub>70</sub>		8 29.1 220°49	1°5/30.6	18		<b>181106</b>	2005 QW <sub>73</sub>		8 29.1 331°59	0°9/28.4	18	
7 30	22 52.00	- 2 22.9	2.227	3.101	11.3	21.6	7 30	22 54.22	-11 33.3	1.859	2.763	11.7	19.8
8 9	22 46.26	- 2 54.7	2.147	3.092	8.2	21.4	8 9	22 47.95	-11 37.7	1.794	2.757	8.1	19.5
8 19	22 39.01	- 3 38.7	2.091	3.082	4.7	21.2	8 19	22 39.92	-11 46.6	1.752	2.752	4.1	19.3
8 29	22 30.86	- 4 31.8	2.064	3.071	1.6	20.9	8 29	22 30.90	-11 55.9	1.738	2.747	0.9	19.0
9 8	22 22.59	- 5 29.0	2.065	3.060	3.6	21.0	9 8	22 21.87	-12 1.7	1.751	2.743	4.6	19.3
9 18	22 14.99	- 6 25.3	2.095	3.048	7.2	21.3	9 18	22 13.79	-12 0.8	1.791	2.738	8.7	19.5
9 28	22 8.81	- 7 15.8	2.151	3.036	10.5	21.4	9 28	22 7.50	-11 51.0	1.855	2.734	12.2	19.8
10 8	22 4.56	- 7 56.8	2.230	3.023	13.4	21.6	10 8	22 3.53	-11 31.3	1.940	2.730	15.3	20.0
<b>76198</b>	2000 EA <sub>49</sub>		8 29.1 236°45	1°6/30.7	18		<b>99109</b>	2001 FW <sub>55</sub>		8 29.1 254°43	2°5/31.4	18	
7 30	22 50.80	- 2 20.0	2.007	2.888	12.0	19.3	7 30	22 52.50	- 0 5.6	2.108	2.976	12.1	19.7
8 9	22 45.51	- 2 48.4	1.935	2.883	8.7	19.1	8 9	22 46.76	- 0 21.1	2.019	2.957	9.0	19.5
8 19	22 38.64	- 3 30.0	1.887	2.878	5.0	18.9	8 19	22 39.36	- 0 50.9	1.953	2.938	5.6	19.2
8 29	22 30.86	- 4 21.2	1.865	2.873	1.8	18.7	8 29	22 30.90	- 1 32.5	1.914	2.918	2.7	19.0
9 8	22 23.00	- 5 16.9	1.872	2.867	3.8	18.8	9 8	22 22.23	- 2 21.8	1.903	2.897	4.0	19.1
9 18	22 15.91	- 6 11.6	1.905	2.862	7.6	19.0	9 18	22 14.20	- 3 13.8	1.920	2.876	7.6	19.3
9 28	22 10.35	- 7 0.1	1.965	2.856	11.1	19.2	9 28	22 7.64	- 4 3.0	1.963	2.854	11.1	19.4
10 8	22 6.85	- 7 38.6	2.046	2.850	14.1	19.4	10 8	22 3.15	- 4 44.9	2.029	2.832	14.2	19.6
<b>339286</b>	2004 XQ <sub>21</sub>		8 29.1 229°18	1°7/30.6	18		<b>172820</b>	2004 RN <sub>2</sub>		8 29.1 209°39	16°2/11.8	16	
7 30	22 52.89	- 2 41.8	2.092	2.968	11.8	21.2	7 30	22 55.65	+26 35.3	1.308	2.054	24.2	20.4
8 9	22 46.95	- 3 0.1	2.013	2.959	8.6	21.0	8 9	22 49.91	+27 51.5	1.241	2.052	22.0	20.2
8 19	22 39.39	- 3 30.3	1.958	2.948	5.0	20.7	8 19	22 41.34	+28 26.4	1.187	2.049	19.6	20.0
8 29	22 30.87	- 4 9.7	1.931	2.938	1.8	20.5	8 29	22 30.92	+28 12.0	1.150	2.045	17.5	19.9
9 8	22 22.22	- 4 53.6	1.932	2.927	3.8	20.6	9 8	22 20.12	+27 6.8	1.131	2.042	16.3	19.8
9 18	22 14.30	- 5 37.3	1.961	2.915	7.5	20.8	9 18	22 10.55	+25 16.3	1.132	2.037	16.5	19.8
9 28	22 7.90	- 6 16.1	2.015	2.903	11.0	21.0	9 28	22 3.66	+22 53.5	1.152	2.033	18.0	19.9
10 8	22 3.57	- 6 46.3	2.092	2.891	14.0	21.2	10 8	22 0.30	+20 15.8	1.192	2.028	20.3	20.0
<b>179077</b>	2001 SW <sub>144</sub>		8 29.1 295°51	3°0/26.9	18		<b>14359</b>	1988 CU <sub>1</sub>		8 29.1 152°55	0°1/29.0	18	
7 30	22 56.41	-17 23.6	1.865	2.773	11.5	20.4	7 30	22 54.64	- 7 24.2	1.799	2.694	12.5	18.9
8 9	22 49.56	-17 37.0	1.794	2.758	8.1	20.1	8 9	22 48.22	- 7 58.3	1.741	2.700	8.7	18.7
8 19	22 40.78	-17 49.9	1.746	2.743	4.5	19.9	8 19	22 40.05	- 8 41.9	1.708	2.706	4.5	18.4
8 29	22 30.88	-17 57.1	1.726	2.729	3.2	19.8	8 29	22 30.91	- 9 29.8	1.701	2.711	0.1	18.0
9 8	22 20.91	-17 54.3	1.734	2.715	6.1	19.9	9 8	22 21.82	-10 16.3	1.722	2.716	4.4	18.4
9 18	22 11.92	-17 38.9	1.768	2.700	9.8	20.1	9 18	22 13.73	-10 56.2	1.771	2.720	8.6	18.7
9 28	22 4.83	-17 10.1	1.826	2.686	13.3	20.3	9 28	22 7.49	-11 25.3	1.844	2.724	12.2	18.9
10 8	22 0.22	-16 28.6	1.904	2.672	16.3	20.5	10 8	22 3.59	-11 41.6	1.938	2.728	15.3	19.2
<b>236840</b>	2007 RX <sub>95</sub>		8 29.1 31°96	3°5/26.4	18		<b>431128</b>	2006 KL <sub>37</sub>		8 29.1 36°52	1°6/30.7	16	
7 30	22 52.99	-16 8.8	1.495	2.415	13.0	20.1	7 30	22 48.08	- 0 21.1	1.468	2.361	14.9	20.5
8 9	22 47.29	-16 55.8	1.451	2.422	9.0	19.9	8 9	22 43.90	- 1 38.5	1.417	2.371	10.8	20.3
8 19	22 39.59	-17 44.3	1.431	2.429	5.0	19.7	8 19	22 37.89	- 3 16.6	1.389	2.382	6.1	20.1
8 29	22 30.88	-18 26.9	1.435	2.438	3.7	19.7	8 29	22 30.89	- 5 7.8	1.385	2.394	1.8	19.8
9 8	22 22.31	-18 57.1	1.465	2.446	7.0	19.9	9 8	22 23.96	- 7 1.9	1.409	2.406	4.5	20.0
9 18	22 15.00	-19 10.8	1.520	2.455	10.9	20.1	9 18	22 18.09	- 8 48.7	1.458	2.418	9.0	20.3
9 28	22 9.84	-19 6.4	1.597	2.465	14.5	20.4	9 28	22 14.14	-10 20.0	1.531	2.431	13.1	20.6
10 8	22 7.31	-18 45.0	1.692	2.475	17.5	20.6	10 8	22 12.61	-11 30.9	1.625	2.445	16.5	20.9
<b>254165</b>	2004 QG <sub>2</sub>		8 29.1 356°93	4°9/24.2	18		<b>521785</b>	2015 SZ <sub>27</sub>		8 29.1 28°35	5°4/23.6	18	
7 30	22 49.52	-19 56.7	1.796</										

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>272767</b>	2005 YO <sub>174</sub>		8 29.1 102°37'	4.7/25.2	18		<b>387558</b>	2001 RQ <sub>42</sub>		8 29.1 24°28'	4.3/2.7	18	
7 30	22 55.96	-20 7.0	1.737	2.649	11.9	20.2	7 30	22 47.01	+ 6 25.9	1.556	2.420	15.8	20.5
8 9	22 49.13	-21 2.1	1.698	2.663	8.4	20.1	8 9	22 43.13	+ 5 33.2	1.498	2.427	12.2	20.3
8 19	22 40.47	-21 54.1	1.683	2.675	5.4	19.9	8 19	22 37.51	+ 4 14.3	1.460	2.435	8.3	20.1
8 29	22 30.92	-22 36.0	1.695	2.688	4.9	19.9	8 29	22 30.93	+ 2 33.9	1.447	2.444	4.9	20.0
9 8	22 21.57	-23 2.2	1.734	2.701	7.5	20.1	9 8	22 24.37	+ 0 40.3	1.459	2.453	5.0	20.0
9 18	22 13.46	-23 9.9	1.798	2.713	10.8	20.3	9 18	22 18.78	- 1 16.4	1.498	2.463	8.4	20.2
9 28	22 7.39	-22 58.8	1.885	2.725	13.8	20.5	9 28	22 14.99	- 3 6.1	1.562	2.473	12.1	20.5
10 8	22 3.83	-22 31.0	1.991	2.737	16.4	20.8	10 8	22 13.50	- 4 41.2	1.647	2.484	15.5	20.7
<b>98198</b>	2000 SJ <sub>118</sub>		8 29.1 303°01'	4.1/26.4	18		<b>487743</b>	2015 RX <sub>108</sub>		8 29.1 324°88'	5.9/23.3	18	
7 30	22 55.10	-15 58.5	1.240	2.164	14.7	18.8	7 30	22 51.96	-24 50.5	1.962	2.875	10.7	20.3
8 9	22 49.37	-16 47.3	1.177	2.149	10.3	18.5	8 9	22 46.44	-25 50.7	1.908	2.867	8.0	20.2
8 19	22 40.97	-17 40.3	1.135	2.134	5.8	18.2	8 19	22 39.18	-26 45.5	1.878	2.859	6.1	20.0
8 29	22 30.93	-18 28.2	1.116	2.120	4.3	18.1	8 29	22 30.95	-27 27.8	1.875	2.852	6.3	20.0
9 8	22 20.69	-19 2.0	1.122	2.105	8.2	18.2	9 8	22 22.73	-27 52.4	1.897	2.845	8.4	20.1
9 18	22 11.79	-19 15.8	1.151	2.091	13.1	18.5	9 18	22 15.46	-27 56.4	1.944	2.838	11.2	20.3
9 28	22 5.50	-19 7.1	1.201	2.078	17.6	18.7	9 28	22 9.96	-27 39.6	2.013	2.831	13.9	20.5
10 8	22 2.54	-18 37.0	1.267	2.065	21.4	18.9	10 8	22 6.74	-27 4.2	2.101	2.825	16.3	20.6
<b>146746</b>	2001 XO <sub>131</sub>		8 29.1 216°82'	1.4/27.6	18		<b>400468</b>	2008 GS <sub>17</sub>		8 29.1 335°89'	0.7/28.3	18	
7 30	22 51.09	-11 42.8	2.195	3.098	10.2	20.6	7 30	22 48.27	- 7 57.9	1.854	2.759	11.7	20.7
8 9	22 45.60	-12 25.4	2.131	3.095	7.0	20.4	8 9	22 43.88	- 9 0.6	1.789	2.753	8.1	20.4
8 19	22 38.66	-13 13.0	2.092	3.091	3.6	20.2	8 19	22 37.87	-10 13.8	1.748	2.748	4.1	20.2
8 29	22 30.91	-14 0.9	2.080	3.088	1.5	20.0	8 29	22 30.94	-11 31.6	1.733	2.743	0.8	19.9
9 8	22 23.13	-14 43.9	2.097	3.084	4.5	20.2	9 8	22 23.94	-12 46.6	1.747	2.738	4.6	20.2
9 18	22 16.10	-15 18.1	2.141	3.080	8.0	20.5	9 18	22 17.75	-13 52.6	1.786	2.734	8.6	20.4
9 28	22 10.53	-15 40.4	2.211	3.077	11.1	20.7	9 28	22 13.15	-14 44.5	1.850	2.730	12.2	20.7
10 8	22 6.89	-15 49.7	2.302	3.072	13.7	20.8	10 8	22 10.66	-15 19.7	1.935	2.727	15.2	20.9
<b>218072</b>	2002 GO <sub>58</sub>		8 29.1 132°48'	3°0/1.7	18		<b>445345</b>	2010 MJ <sub>69</sub>		8 29.1 11°45'	2°2/27.3	15	
7 30	22 48.68	+ 3 11.1	2.350	3.204	11.5	20.3	7 30	22 48.03	-11 56.3	1.293	2.220	14.1	20.3
8 9	22 43.84	+ 2 42.7	2.280	3.208	8.7	20.1	8 9	22 44.05	-12 47.2	1.250	2.225	9.6	20.1
8 19	22 37.73	+ 1 59.3	2.235	3.212	5.7	19.9	8 19	22 38.04	-13 45.4	1.229	2.232	4.9	19.8
8 29	22 30.91	+ 1 3.5	2.217	3.215	3.3	19.8	8 29	22 30.94	-14 43.0	1.232	2.240	2.4	19.7
9 8	22 24.07	- 0 0.4	2.227	3.219	3.8	19.8	9 8	22 23.96	-15 31.6	1.259	2.249	6.4	20.0
9 18	22 17.89	- 1 7.2	2.265	3.222	6.5	20.0	9 18	22 18.22	-16 5.2	1.310	2.260	10.9	20.2
9 28	22 13.00	- 2 11.6	2.329	3.225	9.4	20.2	9 28	22 14.64	-16 20.3	1.382	2.272	14.9	20.5
10 8	22 9.82	- 3 9.1	2.418	3.229	12.0	20.4	10 8	22 13.70	-16 16.5	1.472	2.286	18.2	20.8
<b>299654</b>	2006 LV <sub>1</sub>		8 29.1 47°74'	6°0/23.0	16		<b>186531</b>	2002 VD <sub>80</sub>		8 29.1 314°46'	6°4/24.1	18	
7 30	22 50.52	-18 51.8	1.413	2.340	13.1	20.0	7 30	22 53.32	-20 50.3	1.317	2.244	13.9	19.8
8 9	22 45.60	-19 14.0	1.394	2.365	9.2	19.8	8 9	22 48.02	-22 9.1	1.261	2.232	10.0	19.6
8 19	22 38.74	-23 32.5	1.399	2.391	6.4	19.7	8 19	22 40.24	-23 26.8	1.227	2.220	6.9	19.4
8 29	22 30.92	-25 34.7	1.430	2.417	6.7	19.8	8 29	22 30.96	-24 32.5	1.217	2.208	6.9	19.4
9 8	22 23.35	-27 10.7	1.487	2.443	9.6	20.0	9 8	22 21.59	-25 16.7	1.231	2.197	10.0	19.5
9 18	22 17.10	-28 16.0	1.568	2.470	12.9	20.3	9 18	22 13.52	-25 34.0	1.268	2.186	14.1	19.7
9 28	22 13.01	-28 50.3	1.669	2.497	15.9	20.6	9 28	22 7.93	-25 23.5	1.324	2.176	17.9	19.9
10 8	22 11.50	-28 56.7	1.787	2.524	18.3	20.8	10 8	22 5.48	-24 48.0	1.396	2.166	21.1	20.1
<b>233990</b>	1995 WK <sub>17</sub>		8 29.1 166°35'	0°3/29.4	18		<b>300294</b>	2007 PZ <sub>7</sub>		8 29.1 353°39'	17°2/1.9	18	
7 30	22 53.18	- 6 33.7	2.110	2.998	11.2	21.9	7 30	22 39.86	-39 35.7	0.963	1.894	17.3	17.8
8 9	22 47.06	- 7 3.0	2.047	3.002	7.9	21.7	8 9	22 39.72	-45 27.2	0.954	1.880	17.7	17.8
8 19	22 39.42	- 7 41.0	2.009	3.005	4.1	21.5	8 19	22 36.43	-50 38.1	0.969	1.868	19.9	17.9
8 29	22 30.94	- 8 23.8	1.999	3.008	0.3	21.2	8 29	22 30.91	-54 42.3	1.005	1.859	22.7	18.0
9 8	22 22.48	- 9 6.4	2.017	3.011	3.8	21.5	9 8	22 24.97	-57 28.7	1.058	1.853	25.5	18.2
9 18	22 14.84	- 9 44.5	2.063	3.013	7.5	21.7	9 18	22 20.70	-58 59.4	1.122	1.849	27.9	18.4
9 28	22 8.75	-10 14.3	2.135	3.014	10.9	21.9	9 28	22 19.96	-59 23.8	1.194	1.848	29.6	18.6
10 8	22 4.69	-10 33.5	2.229	3.016	13.7	22.1	10 8	22 23.59	-58 54.1	1.270	1.850	30.8	18.8
<b>140272</b>	2001 SL <sub>272</sub>		8 29.1 153°59'	1°1/28.1	18		<b>172623</b>	2003 WW <sub>158</sub>		8 29.1 71°67'	1°7/30.4	18	
7 30	22 53.63	- 9 37.0	1.835	2.736	12.0	19.7	7 30	22 53.99	- 3 12.5	1.352	2.249	15.6	20.1
8 9	22 47.52	-10 31.6	1.780	2.742	8.3	19.5	8 9	22 48.16	- 3 37.8	1.300	2.257	11.2	19.8
8 19	22 39.70	-11 34.0	1.748	2.748	4.1	19.3	8 19	22 40.16	- 4 20.0	1.269	2.264	6.3	19.6
8 29	22 30.95	-12 38.1	1.745	2.753	1.2	19.1	8 29	22 30.97	- 5 13.7	1.263	2.272	1.8	19.3
9 8	22 22.22	-13 37.4	1.769	2.758	4.9	19.4	9 8	22 21.85	- 6 11.3	1.283	2.279	4.9	19.5
9 18	22 14.48	-14 26.3	1.820	2.763	8.9	19.6	9 18	22 14.02	- 7 5.3	1.327	2.287	9.7	19.8
9 28	22 8.52	-15 1.1	1.895	2.766	12.4	19.8	9 28	22 8.47	- 7 49.2	1.394	2.295	14.1	20.1
10 8	22 4.85	-15 20.3	1.992	2.770	15.3	20.1	10 8	22 5.75	- 8 19.0	1.481	2.303	17.7	20.4
<b>289622</b>	2005 GU <sub>46</sub>		8 29.1 86°22'	0°8/29.9	17		<b>8438</b>	Marila		8 29.1 313°02'	1°7/27.9	18	
7 30	22 51.69	- 4 41.4	1.856	2.746	12.4	21.2	7 30	22 51.37	- 9 42.9	1.187	2.109	15.4	17.2
8 9	22 46.11	- 5 16.0	1.803	2.758	8.8	21.0	8 9	22 46.84	-10 37.8	1.120	2.092	10.8	16.9
8 19	22 38.94	- 6 2.1	1.775	2.770	4.7	20.8	8 19	22 39.73	-11 46.8	1.073	2.075	5.5	16.6
8 29	22 30.94	- 6 55.0	1.772	2.782	0.9	20.5	8 29	22 30.97	-13 1.3	1.050	2.059	1.8	16.3
9 8	22 23.02	- 7 48.8	1.798	2.793	4.0	20.8	9 8	22 21.94	-14 10.8	1.050	2.043	6.8	16.6
9 18	22 16.05	- 8 38.2	1.850	2.805	7.9	21.0	9 18	22 14.10	-15 6.1	1.074	2.027	12.3	16.8
9 28	22 10.76	- 9 18.6	1.928	2.816	11.4	21.3	9 28	22 8.75	-15 40.8	1.118	2.013	17.3	17.1
10 8	22 7.63	- 9 47.1	2.027	2.828	14.3	21.5	10 8	22 6.65	-15 52.4	1.179	1.999	21.4	17.3
<b>452455</b>	2003 SR <sub>352</sub>		8 29.1 326°11'	4°6/25.5	16		<b>162354</b>	1999 YQ <sub>5</sub>		8 29.1 316°79'	4°0/27.8	18	
7 30	22 54.70	-21 58.7											

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>478795</b>	2012 <i>UV</i> <sub>152</sub>		8 29.1 327°37	1°1/29.9	18		<b>428169</b>	2006 <i>SP</i> <sub>392</sub>		8 29.1 202°37	2°6/26.9	17	
7 30	22 48.29	- 3 56.4	1.322	2.230	15.2	21.2	7 30	22 55.93	-14 10.9	1.822	2.727	11.8	21.8
8 9	22 44.48	- 4 34.9	1.248	2.211	10.9	20.9	8 9	22 49.25	-14 59.5	1.759	2.724	8.2	21.6
8 19	22 38.44	- 5 32.4	1.194	2.192	6.0	20.6	8 19	22 40.68	-15 51.8	1.721	2.720	4.4	21.3
8 29	22 30.98	- 6 43.6	1.165	2.174	1.2	20.2	8 29	22 31.03	-16 41.6	1.710	2.715	2.7	21.2
9 8	22 23.25	- 7 59.9	1.159	2.157	5.1	20.4	9 8	22 21.34	-17 22.5	1.727	2.709	5.9	21.4
9 18	22 16.51	- 9 12.2	1.178	2.141	10.4	20.7	9 18	22 12.65	-17 50.0	1.771	2.704	9.8	21.6
9 28	22 11.91	-10 11.9	1.219	2.126	15.2	20.9	9 28	22 5.85	-18 1.6	1.838	2.697	13.3	21.9
10 8	22 10.17	-10 53.8	1.278	2.112	19.3	21.1	10 8	22 1.50	-17 57.1	1.926	2.690	16.3	22.0
<b>476185</b>	2007 <i>TO</i> <sub>452</sub>		8 29.1 242°41	3°1/1.1	18		<b>288880</b>	2004 <i>RH</i> <sub>242</sub>		8 29.1 271°56	0°2/29.4	18	
7 30	22 51.90	+ 1 45.9	2.236	3.094	11.8	22.0	7 30	22 49.75	- 6 29.3	2.236	3.127	10.5	21.6
8 9	22 46.26	+ 1 37.9	2.151	3.081	9.0	21.8	8 9	22 44.72	- 7 3.1	2.162	3.118	7.4	21.4
8 19	22 39.09	+ 1 15.6	2.089	3.068	5.8	21.6	8 19	22 38.28	- 7 45.9	2.112	3.109	3.9	21.1
8 29	22 30.99	+ 0 40.9	2.054	3.054	3.3	21.4	8 29	22 31.01	- 8 33.8	2.091	3.100	0.3	20.8
9 8	22 22.73	- 0 2.6	2.048	3.040	4.1	21.4	9 8	22 23.66	- 9 22.2	2.097	3.091	3.7	21.1
9 18	22 15.11	- 0 50.5	2.069	3.025	7.1	21.6	9 18	22 16.97	-10 6.5	2.131	3.082	7.3	21.3
9 28	22 8.88	- 1 37.7	2.117	3.010	10.3	21.8	9 28	22 11.65	-10 42.6	2.191	3.073	10.5	21.5
10 8	22 4.58	- 2 19.5	2.188	2.995	13.2	22.0	10 8	22 8.18	-11 7.9	2.273	3.064	13.3	21.7
<b>144419</b>	2004 <i>ER</i> <sub>14</sub>		8 29.1 150°67	6°2/23.4	18		<b>200524</b>	2001 <i>CL</i> <sub>25</sub>		8 29.1 149°36	0°3/28.8	18	
7 30	22 56.69	-27 33.8	2.131	3.033	10.5	19.6	7 30	22 53.85	- 8 39.0	2.095	2.988	11.1	20.9
8 9	22 49.52	-28 20.0	2.087	3.037	8.1	19.5	8 9	22 47.53	- 9 7.9	2.036	2.995	7.7	20.7
8 19	22 40.68	-28 57.7	2.068	3.040	6.4	19.4	8 19	22 39.69	- 9 43.7	2.003	3.001	3.9	20.5
8 29	22 31.01	-29 20.8	2.075	3.044	6.5	19.4	8 29	22 31.04	-10 22.2	1.998	3.008	0.3	20.2
9 8	22 21.48	-29 25.4	2.109	3.047	8.3	19.5	9 8	22 22.43	-10 58.7	2.021	3.014	4.0	20.5
9 18	22 13.04	-29 10.1	2.169	3.050	10.8	19.7	9 18	22 14.70	-11 28.9	2.072	3.019	7.7	20.7
9 28	22 6.44	-28 36.1	2.252	3.053	13.2	19.9	9 28	22 8.55	-11 49.9	2.149	3.024	11.0	21.0
10 8	22 2.15	-27 46.1	2.354	3.055	15.2	20.0	10 8	22 4.47	-11 59.9	2.248	3.029	13.7	21.2
<b>341109</b>	2007 <i>LQ</i>		8 29.1 95°21	0°7/29.8	17		<b>377268</b>	2004 <i>DK</i> <sub>40</sub>		8 29.1 101°08	1°0/30.0	17	
7 30	22 52.57	- 4 1.1	1.753	2.643	13.1	20.6	7 30	22 53.94	- 3 24.7	1.628	2.517	13.9	21.0
8 9	22 46.74	- 4 57.2	1.708	2.662	9.2	20.4	8 9	22 47.80	- 4 15.3	1.582	2.536	9.8	20.8
8 19	22 39.28	- 6 6.2	1.686	2.682	4.9	20.2	8 19	22 39.87	- 5 20.2	1.560	2.555	5.3	20.5
8 29	22 30.99	- 7 22.1	1.691	2.700	0.7	19.9	8 29	22 31.04	- 6 33.3	1.564	2.573	1.1	20.3
9 8	22 22.84	- 8 37.5	1.724	2.719	4.1	20.2	9 8	22 22.37	- 7 47.0	1.595	2.591	4.3	20.6
9 18	22 15.74	- 9 46.0	1.784	2.737	8.2	20.5	9 18	22 14.84	- 8 54.3	1.653	2.608	8.6	20.9
9 28	22 10.43	-10 42.3	1.869	2.755	11.8	20.8	9 28	22 9.27	- 9 49.6	1.735	2.625	12.4	21.1
10 8	22 7.37	-11 23.6	1.975	2.772	14.8	21.0	10 8	22 6.13	-10 29.9	1.839	2.641	15.5	21.4
<b>404857</b>	2014 <i>KF</i> <sub>17</sub>		8 29.1 254°21	6°9/21.7	18		<b>513295</b>	2007 <i>BD</i> <sub>63</sub>		8 29.1 186°43	1°7/30.8	18	
7 30	22 53.18	-27 56.6	2.052	2.959	10.6	20.7	7 30	22 51.64	- 2 56.1	2.286	3.162	11.0	21.6
8 9	22 47.29	-29 14.9	2.002	2.953	8.3	20.5	8 9	22 45.96	- 3 3.4	2.216	3.162	7.9	21.4
8 19	22 39.64	-30 25.5	1.976	2.946	6.9	20.4	8 19	22 38.89	- 3 21.0	2.172	3.161	4.6	21.2
8 29	22 31.00	-31 20.9	1.978	2.938	7.4	20.5	8 29	22 31.04	- 3 46.2	2.154	3.161	1.8	21.0
9 8	22 22.34	-31 55.6	2.004	2.931	9.3	20.6	9 8	22 23.17	- 4 15.4	2.166	3.161	3.5	21.1
9 18	22 14.64	-32 6.9	2.055	2.924	11.8	20.7	9 18	22 16.01	- 4 45.0	2.205	3.160	6.8	21.3
9 28	22 8.72	-31 55.1	2.128	2.916	14.3	20.9	9 28	22 10.23	- 5 11.1	2.270	3.159	9.9	21.5
10 8	22 5.12	-31 22.7	2.218	2.909	16.3	21.0	10 8	22 6.30	- 5 30.6	2.359	3.158	12.6	21.7
<b>99173</b>	2001 <i>FS</i> <sub>161</sub>		8 29.1 126°09	3°4/25.4	18		<b>20754</b>	2000 <i>AD</i> <sub>244</sub>		8 29.1 258°94	1°8/31.3	18	
7 30	22 52.19	-16 27.1	2.072	2.981	10.4	19.6	7 30	22 48.16	- 0 6.5	2.304	3.174	11.1	18.7
8 9	22 46.39	-17 45.2	2.028	2.993	7.2	19.4	8 9	22 43.60	- 0 53.0	2.226	3.167	8.1	18.5
8 19	22 39.09	-19 4.4	2.009	3.005	4.2	19.3	8 19	22 37.70	- 1 53.6	2.173	3.160	4.9	18.3
8 29	22 31.00	-20 17.9	2.019	3.016	3.6	19.3	8 29	22 31.03	- 3 4.9	2.148	3.153	2.0	18.1
9 8	22 22.98	-21 19.5	2.056	3.027	6.2	19.5	9 8	22 24.27	- 4 21.6	2.151	3.146	3.4	18.2
9 18	22 15.86	-22 5.0	2.121	3.038	9.3	19.7	9 18	22 18.14	- 5 38.0	2.182	3.139	6.7	18.4
9 28	22 10.35	-22 32.4	2.209	3.048	12.1	19.9	9 28	22 13.27	- 6 48.6	2.240	3.132	9.9	18.6
10 8	22 6.90	-22 42.1	2.318	3.057	14.5	20.1	10 8	22 10.16	- 7 49.0	2.321	3.125	12.7	18.8
<b>387591</b>	2001 <i>VP</i> <sub>127</sub>		8 29.1 337°97	0°4/29.5	18		<b>254397</b>	2004 <i>TJ</i> <sub>231</sub>		8 29.1 94°26	2°5/26.7	18	
7 30	22 48.75	- 4 40.0	1.274	2.185	15.4	20.4	7 30	22 52.07	-15 57.2	2.251	3.157	9.9	20.2
8 9	22 44.77	- 5 36.4	1.211	2.176	10.9	20.1	8 9	22 46.25	-16 30.1	2.194	3.159	6.8	20.0
8 19	22 38.56	- 6 51.8	1.169	2.168	5.8	19.8	8 19	22 39.03	-17 4.0	2.163	3.161	3.7	19.8
8 29	22 31.00	- 8 18.9	1.151	2.161	0.5	19.4	8 29	22 31.05	-17 34.3	2.160	3.163	2.6	19.8
9 8	22 23.30	- 9 47.7	1.157	2.154	5.3	19.7	9 8	22 23.11	-17 56.9	2.185	3.165	5.1	19.9
9 18	22 16.73	-11 8.1	1.187	2.148	10.6	20.0	9 18	22 15.99	-18 8.6	2.237	3.167	8.2	20.1
9 28	22 12.37	-12 12.0	1.240	2.142	15.3	20.3	9 28	22 10.34	-18 8.1	2.314	3.169	11.1	20.3
10 8	22 10.87	-12 55.0	1.310	2.138	19.2	20.5	10 8	22 6.63	-17 55.1	2.412	3.171	13.5	20.5
<b>17073</b>	Alexblank		8 29.1 84°10	0°8/29.9	18		<b>354330</b>	2002 <i>YL</i> <sub>16</sub>		8 29.1 277°31	7°8/20.6	18	
7 30	22 51.20	- 4 50.3	1.969	2.858	11.9	18.4	7 30	22 53.59	-29 45.6	1.956	2.863	11.1	20.6
8 9	22 45.73	- 5 21.7	1.914	2.869	8.4	18.2	8 9	22 47.76	-31 13.0	1.902	2.848	8.9	20.5
8 19	22 38.76	- 6 3.9	1.884	2.879	4.5	18.0	8 19	22 39.98	-32 31.7	1.871	2.833	7.8	20.4
8 29	22 31.01	- 6 52.5	1.880	2.889	0.9	17.7	8 29	22 31.06	-33 33.2	1.867	2.818	8.4	20.4
9 8	22 23.30	- 7 42.2	1.904	2.900	3.8	18.0	9 8	22 22.05	-34 11.1	1.887	2.804	10.4	20.5
9 18	22 16.48	- 8 28.0	1.956	2.910	7.6	18.2	9 18	22 14.01	-34 22.6	1.931	2.789	13.0	20.6
9 28	22 11.25	- 9 5.6	2.032	2.920	10.9	18.5	9 28	22 7.87	-34 8.1	1.995	2.773	15.4	20.8
10 8	22 8.05	- 9 32.2	2.131	2.930	13.8	18.7	10 8	22 4.23	-33 30.7	2.077	2.758	17.6	20.9
<b>231466</b>	2007 <i>PJ</i> <sub>13</sub>		8 29.1 29°74	4°8/24.7	17		<b>225116</b>	2008 <i>EE</i> <sub>45</sub>		8 29.1 74°92			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>490259</b>	2008 <i>XB</i> <sub>12</sub>		8 29.1 325°17'	1.7°/27.8	16		<b>479644</b>	2014 <i>DN</i> <sub>53</sub>		8 29.1 260°06'	1.6°/30.8	18	
7 30	22 48.52	-9 34.8	1.282	2.205	14.5	21.0	7 30	22 50.40	-1 7.0	1.891	2.770	12.7	21.9
8 9	22 44.77	-10 34.3	1.209	2.181	10.1	20.7	8 9	22 45.46	-2 0.3	1.809	2.756	9.3	21.7
8 19	22 38.68	-11 48.2	1.156	2.158	5.1	20.3	8 19	22 38.81	-3 10.8	1.750	2.741	5.4	21.4
8 29	22 31.05	-13 8.4	1.127	2.136	1.8	20.0	8 29	22 31.09	-4 34.1	1.719	2.726	1.8	21.2
9 8	22 23.12	-14 24.9	1.123	2.115	6.5	20.3	9 8	22 23.18	-6 3.3	1.715	2.711	4.0	21.3
9 18	22 16.20	-15 28.1	1.141	2.094	11.8	20.5	9 18	22 15.99	-7 30.9	1.739	2.696	8.1	21.5
9 28	22 11.51	-16 11.2	1.181	2.075	16.6	20.7	9 28	22 10.39	-8 49.8	1.788	2.680	12.0	21.7
10 8	22 9.82	-16 31.2	1.238	2.057	20.6	20.9	10 8	22 6.97	-9 54.8	1.859	2.664	15.3	21.9
<b>121777</b>	2000 <i>AD</i> <sub>32</sub>		8 29.1 318°25'	4.5°/1.3	17		<b>217652</b>	1998 <i>QX</i> <sub>41</sub>		8 29.1 346°70'	2.4°/28.4	18	
7 30	22 53.23	+1 56.2	1.872	2.736	13.5	19.2	7 30	22 55.41	-16 16.2	0.858	1.797	17.9	18.0
8 9	22 47.51	+2 34.1	1.783	2.714	10.5	19.0	8 9	22 50.33	-15 27.1	0.799	1.778	12.7	17.6
8 19	22 39.90	+2 58.3	1.717	2.692	7.2	18.8	8 19	22 41.81	-14 33.8	0.758	1.761	6.8	17.2
8 29	22 31.07	+3 8.5	1.676	2.671	4.7	18.6	8 29	22 31.13	-13 31.8	0.738	1.747	2.4	16.9
9 8	22 21.95	+3 6.6	1.662	2.650	5.4	18.6	9 8	22 20.28	-12 18.4	0.738	1.735	7.6	17.2
9 18	22 13.54	+2 55.8	1.674	2.629	8.5	18.7	9 18	22 11.24	-10 54.0	0.759	1.725	13.9	17.5
9 28	22 6.78	+2 40.6	1.711	2.609	12.0	18.9	9 28	22 5.63	-9 21.0	0.798	1.718	19.5	17.8
10 8	22 2.34	+2 26.1	1.769	2.590	15.3	19.0	10 8	22 4.19	-7 41.8	0.853	1.714	24.2	18.1
<b>289723</b>	2005 <i>JE</i> <sub>17</sub>		8 29.1 16°94'	8.1°/4.3	17		<b>115140</b>	2003 <i>SE</i> <sub>59</sub>		8 29.1 301°65'	5.4°/3.6	18	
7 30	22 44.10	+7 31.7	0.790	1.695	23.0	18.5	7 30	22 49.80	+8 26.1	2.221	3.050	12.9	19.2
8 9	22 41.97	+7 47.0	0.759	1.706	18.2	18.3	8 9	22 44.85	+8 39.4	2.138	3.039	10.4	19.0
8 19	22 37.20	+7 22.0	0.742	1.720	13.2	18.1	8 19	22 38.42	+8 34.8	2.076	3.029	7.8	18.8
8 29	22 31.03	+6 19.7	0.743	1.737	9.1	18.0	8 29	22 31.10	+8 12.6	2.040	3.018	5.8	18.7
9 8	22 25.08	+4 50.8	0.763	1.756	8.4	18.0	9 8	22 23.63	+7 35.2	2.030	3.008	5.6	18.7
9 18	22 20.78	+3 9.9	0.803	1.778	11.7	18.3	9 18	22 16.78	+6 46.7	2.047	2.997	7.6	18.8
9 28	22 19.23	+1 32.4	0.862	1.801	16.1	18.6	9 28	22 11.30	+5 52.7	2.090	2.987	10.2	18.9
10 8	22 20.86	+0 10.1	0.938	1.827	20.1	19.0	10 8	22 7.70	+4 59.0	2.155	2.977	12.9	19.1
<b>65150</b>	2002 <i>CA</i> <sub>126</sub>		8 29.1 235°34'	0°8'/30.8	17		<b>32347</b>	2000 <i>QK</i> <sub>101</sub>		8 29.1 126°10'	4°8'/24.5	18	
7 30	22 43.35	-2 57.4	4.595	5.462	6.0	20.0	7 30	22 54.09	-22 54.7	2.140	3.048	10.2	18.6
8 9	22 39.76	-3 20.5	4.517	5.458	4.3	19.8	8 9	22 47.74	-23 42.1	2.093	3.052	7.4	18.5
8 19	22 35.56	-3 49.2	4.465	5.454	2.5	19.7	8 19	22 39.83	-24 25.1	2.071	3.057	5.2	18.3
8 29	22 31.02	-4 21.7	4.443	5.450	0.9	19.6	8 29	22 31.12	-24 57.8	2.076	3.061	5.1	18.3
9 8	22 26.47	-4 56.1	4.451	5.446	1.8	19.6	9 8	22 22.50	-25 15.7	2.109	3.065	7.1	18.5
9 18	22 22.20	-5 30.5	4.488	5.442	3.7	19.8	9 18	22 14.84	-25 16.8	2.167	3.069	9.9	18.7
9 28	22 18.53	-6 2.6	4.554	5.437	5.4	19.9	9 28	22 8.87	-25 0.9	2.249	3.073	12.5	18.8
10 8	22 15.71	-6 30.9	4.645	5.433	7.0	20.0	10 8	22 5.03	-24 29.4	2.351	3.076	14.7	19.0
<b>282915</b>	2007 <i>LF</i> <sub>19</sub>		8 29.1 56°44'	8°2'/22.4	17		<b>239163</b>	2006 <i>KZ</i> <sub>30</sub>		8 29.1 169°70'	5°2'/3.9	18	
7 30	22 56.04	-26 14.3	1.382	2.302	13.8	19.4	7 30	22 52.09	+9 32.6	2.315	3.131	12.9	21.4
8 9	22 49.40	-28 0.1	1.374	2.334	10.5	19.3	8 9	22 46.30	+9 27.2	2.241	3.135	10.3	21.2
8 19	22 40.68	-29 32.5	1.390	2.366	8.4	19.3	8 19	22 39.11	+9 3.0	2.189	3.138	7.7	21.0
8 29	22 31.08	-30 41.1	1.429	2.398	8.8	19.4	8 29	22 31.11	+8 20.9	2.164	3.141	5.6	20.9
9 8	22 21.99	-31 20.1	1.493	2.430	11.1	19.6	9 8	22 23.06	+7 24.3	2.166	3.143	5.4	20.9
9 18	22 14.56	-31 28.8	1.579	2.463	13.9	19.8	9 18	22 15.71	+6 18.1	2.196	3.145	7.2	21.0
9 28	22 9.62	-31 9.9	1.685	2.495	16.5	20.1	9 28	22 9.75	+5 8.4	2.253	3.146	9.8	21.2
10 8	22 7.51	-30 28.7	1.807	2.526	18.7	20.4	10 8	22 5.66	+4 1.0	2.334	3.147	12.3	21.4
<b>488053</b>	2015 <i>UN</i> <sub>53</sub>		8 29.1 274°15'	1°0'/28.0	18		<b>7569</b>	1989 <i>BK</i>		8 29.1 314°65'	6°3'/23.7	18	
7 30	22 49.68	-10 14.1	2.335	3.234	9.8	21.5	7 30	22 51.17	-19 47.5	1.346	2.274	13.5	16.2
8 9	22 44.69	-10 58.3	2.257	3.219	6.8	21.3	8 9	22 46.79	-21 20.0	1.269	2.241	9.8	15.9
8 19	22 38.30	-11 49.0	2.204	3.204	3.4	21.1	8 19	22 39.83	-22 56.8	1.214	2.207	6.8	15.6
8 29	22 31.06	-12 41.8	2.179	3.188	1.1	20.9	8 29	22 31.12	-24 26.3	1.183	2.174	6.9	15.6
9 8	22 23.71	-13 31.8	2.183	3.172	4.1	21.1	9 8	22 21.95	-25 36.7	1.177	2.142	10.4	15.7
9 18	22 16.98	-14 14.5	2.214	3.156	7.6	21.3	9 18	22 13.75	-26 19.9	1.192	2.110	14.8	15.8
9 28	22 11.55	-14 46.5	2.271	3.140	10.7	21.4	9 28	22 7.90	-26 32.0	1.227	2.079	19.0	16.0
10 8	22 7.94	-15 6.0	2.350	3.124	13.4	21.6	10 8	22 5.27	-26 14.3	1.277	2.048	22.6	16.2
<b>17178</b>	1999 <i>TK</i> <sub>218</sub>		8 29.1 69°36'	1°9'/27.3	18 R		<b>303690</b>	2005 <i>NO</i> <sub>74</sub>		8 29.1 46°73'	1°9'/30.9	18	
7 30	22 52.62	-13 28.8	2.052	2.957	10.7	18.4	7 30	22 51.93	-2 33.2	1.933	2.814	12.4	20.6
8 9	22 46.61	-14 4.8	2.013	2.977	7.3	18.2	8 9	22 46.36	-2 43.1	1.869	2.816	9.0	20.4
8 19	22 39.19	-14 43.4	1.998	2.997	3.8	18.0	8 19	22 39.18	-3 5.3	1.828	2.818	5.3	20.2
8 29	22 31.08	-15 19.7	2.011	3.017	2.0	18.0	8 29	22 31.12	-3 36.9	1.814	2.820	2.1	20.0
9 8	22 23.15	-15 49.1	2.052	3.037	4.8	18.2	9 8	22 23.04	-4 13.3	1.827	2.823	3.9	20.1
9 18	22 16.18	-16 8.3	2.119	3.057	8.2	18.4	9 18	22 15.81	-4 49.9	1.867	2.825	7.6	20.4
9 28	22 10.83	-16 15.6	2.212	3.076	11.2	18.7	9 28	22 10.20	-5 21.9	1.933	2.827	11.1	20.6
10 8	22 7.49	-16 10.5	2.326	3.096	13.6	18.9	10 8	22 6.71	-5 46.0	2.020	2.829	14.1	20.8
<b>477989</b>	2011 <i>SW</i> <sub>109</sub>		8 29.1 282°94'	2.4°/27.1	18		<b>24801</b>	1994 <i>PQ</i> <sub>15</sub>		8 29.1 10°95'	1°5°/29.9	18	
7 30	22 54.72	-14 52.2	1.907	2.814	11.3	21.3	7 30	22 50.62	-6 3.4	0.931	1.858	18.1	16.4
8 9	22 48.50	-15 20.7	1.828	2.792	7.9	21.1	8 9	22 46.41	-5 55.4	0.889	1.861	12.9	16.2
8 19	22 40.39	-15 52.2	1.772	2.771	4.3	20.8	8 19	22 39.51	-6 3.9	0.866	1.866	7.1	15.9
8 29	22 31.10	-16 21.2	1.744	2.749	2.6	20.7	8 29	22 31.14	-6 23.7	0.863	1.873	1.6	15.6
9 8	22 21.63	-16 42.5	1.743	2.727	5.7	20.8	9 8	22 22.92	-6 47.4	0.883	1.881	5.8	15.9
9 18	22 12.97	-16 52.1	1.769	2.705	9.6	21.0	9 18	22 16.35	-7 7.8	0.923	1.892	11.5	16.2
9 28	22 6.08	-16 47.8	1.819	2.683	13.2	21.2	9 28	22 12.62	-7 18.7	0.983	1.904	16.5	16.5
10 8	22 1.56	-16 29.2	1.890	2.661	16.3	21.4	10 8	22 12.22	-7 16.4	1.059	1.918	20.7	16.9
<b>5701</b>	Baltuck		8 29.1 325°55'	4.1°/26.1	18 R		<b>165042</b>	2000 <i>DE</i> <sub>110</sub>		8 29.1 278°45'	2°8°/1.5	18	
7 30	22 52.48												

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8 29.2

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>248108</b>	2004 RR <sub>118</sub>		8 29.1 260°22	0°0/29.1 18			<b>285343</b>	1999 RR <sub>5</sub>		8 29.2 5°76	0°9/28.5 18		
7 30	22 50.72	- 7 45.2	2.273	3.165	10.3	21.2	7 30	22 53.42	-11 15.8	1.796	2.701	12.0	19.8
8 9	22 45.41	- 8 13.2	2.199	3.157	7.2	21.0	8 9	22 47.49	-11 24.7	1.737	2.701	8.3	19.5
8 19	22 38.69	- 8 48.9	2.150	3.148	3.7	20.8	8 19	22 39.83	-11 38.5	1.702	2.702	4.2	19.3
8 29	22 31.15	- 9 28.4	2.130	3.139	0.1	20.5	8 29	22 31.21	-11 53.2	1.694	2.703	0.9	19.1
9 8	22 23.53	-10 7.5	2.137	3.131	3.7	20.8	9 8	22 22.63	-12 4.4	1.713	2.705	4.7	19.3
9 18	22 16.58	-10 42.0	2.172	3.122	7.3	21.0	9 18	22 15.05	-12 8.5	1.758	2.707	8.7	19.6
9 28	22 11.00	-11 8.3	2.233	3.113	10.5	21.2	9 28	22 9.27	-12 3.3	1.827	2.709	12.3	19.8
10 8	22 7.27	-11 24.4	2.317	3.104	13.2	21.4	10 8	22 5.81	-11 47.7	1.917	2.712	15.3	20.0
<b>89734</b>	2002 AH		8 29.1 294°91	3°9/25.9 18			<b>517846</b>	2015 RQ <sub>195</sub>		8 29.2 275°11	5°9/23.4 18		
7 30	22 53.16	-16 11.3	1.532	2.450	12.8	18.7	7 30	22 55.54	-27 24.3	2.231	3.133	10.1	21.6
8 9	22 47.75	-17 12.7	1.464	2.434	9.0	18.5	8 9	22 48.82	-28 4.8	2.175	3.125	7.8	21.4
8 19	22 40.13	-18 18.1	1.420	2.419	5.2	18.2	8 19	22 40.47	-28 37.6	2.144	3.117	6.1	21.3
8 29	22 31.17	-19 19.2	1.402	2.403	4.2	18.1	8 29	22 31.23	-28 56.9	2.139	3.109	6.2	21.3
9 8	22 22.04	-20 7.6	1.409	2.387	7.5	18.3	9 8	22 22.03	-28 58.8	2.162	3.101	8.1	21.4
9 18	22 13.95	-20 37.8	1.440	2.372	11.7	18.5	9 18	22 13.78	-28 41.8	2.210	3.094	10.5	21.5
9 28	22 7.96	-20 46.8	1.494	2.357	15.6	18.7	9 28	22 7.25	-28 6.5	2.281	3.086	12.9	21.7
10 8	22 4.75	-20 34.8	1.565	2.342	18.9	18.9	10 8	22 2.92	-27 15.2	2.372	3.078	15.1	21.9
<b>50036</b>	2000 AH <sub>53</sub>		8 29.1 132°06	2°7/31.4 18			<b>61242</b>	2000 OX <sub>17</sub>		8 29.2 358°69	2°2/27.5 18		
7 30	22 55.00	- 0 10.2	1.696	2.570	14.2	19.5	7 30	22 49.31	-11 0.1	1.166	2.093	15.2	17.8
8 9	22 48.61	- 0 27.6	1.638	2.580	10.5	19.3	8 9	22 45.30	-11 58.4	1.115	2.090	10.5	17.5
8 19	22 40.40	- 1 1.3	1.603	2.590	6.4	19.1	8 19	22 38.93	-13 7.3	1.085	2.088	5.3	17.2
8 29	22 31.18	- 1 47.9	1.594	2.599	2.9	18.9	8 29	22 31.20	-14 17.8	1.078	2.086	2.4	17.0
9 8	22 22.02	- 2 41.5	1.613	2.608	4.4	19.0	9 8	22 23.48	-15 19.6	1.095	2.086	6.9	17.3
9 18	22 13.91	- 3 36.0	1.658	2.616	8.3	19.3	9 18	22 17.06	-16 5.0	1.135	2.087	11.9	17.6
9 28	22 7.72	- 4 25.3	1.728	2.624	12.1	19.5	9 28	22 13.06	-16 29.1	1.195	2.090	16.4	17.9
10 8	22 3.96	- 5 4.7	1.820	2.631	15.3	19.7	10 8	22 12.04	-16 31.0	1.272	2.093	20.1	18.1
<b>199973</b>	2007 HX <sub>85</sub>		8 29.1 4°99	3°9/ 1.5 18			<b>139168</b>	2001 FN <sub>123</sub>		8 29.2 66°31	2°1/30.9 17		
7 30	22 46.87	+ 2 53.3	1.222	2.115	17.3	19.3	7 30	22 52.16	- 0 48.9	1.369	2.261	15.8	19.6
8 9	22 43.48	+ 2 15.5	1.165	2.114	13.1	19.0	8 9	22 46.94	- 1 33.8	1.318	2.271	11.5	19.4
8 19	22 37.94	+ 1 10.5	1.128	2.115	8.4	18.8	8 19	22 39.65	- 2 38.8	1.289	2.281	6.7	19.1
8 29	22 31.15	- 0 16.8	1.113	2.117	4.3	18.5	8 29	22 31.23	- 3 57.9	1.284	2.291	2.4	18.9
9 8	22 24.33	- 1 56.9	1.122	2.120	5.3	18.6	9 8	22 22.88	- 5 22.2	1.304	2.301	4.8	19.1
9 18	22 18.67	- 3 38.5	1.155	2.124	9.8	18.9	9 18	22 15.75	- 6 42.6	1.350	2.312	9.4	19.4
9 28	22 15.19	- 5 10.6	1.210	2.129	14.3	19.2	9 28	22 10.79	- 7 51.3	1.419	2.322	13.7	19.7
10 8	22 14.47	- 6 25.5	1.285	2.135	18.2	19.4	10 8	22 8.53	- 8 43.4	1.508	2.333	17.3	19.9
<b>67723</b>	2000 UQ <sub>15</sub>		8 29.1 56°28	0°9/29.8 17			<b>479377</b>	2013 XQ <sub>24</sub>		8 29.2 155°47	2°1/27.1 18		
7 30	22 54.41	- 5 0.6	1.225	2.132	16.2	19.7	7 30	22 52.92	-13 9.0	2.000	2.905	10.9	21.3
8 9	22 48.65	- 5 30.3	1.178	2.141	11.5	19.4	8 9	22 47.04	-14 1.1	1.944	2.909	7.5	21.1
8 19	22 40.55	- 6 16.0	1.152	2.149	6.2	19.1	8 19	22 39.57	-14 57.3	1.914	2.913	3.9	20.9
8 29	22 31.19	- 7 11.3	1.149	2.159	1.0	18.8	8 29	22 31.24	-15 51.8	1.911	2.916	2.2	20.8
9 8	22 21.95	- 8 7.8	1.171	2.168	5.3	19.2	9 8	22 22.93	-16 38.9	1.936	2.920	5.2	21.0
9 18	22 14.14	- 8 57.6	1.217	2.178	10.4	19.5	9 18	22 15.51	-17 14.3	1.988	2.923	8.8	21.2
9 28	22 8.80	- 9 34.6	1.285	2.187	15.0	19.8	9 28	22 9.73	-17 35.2	2.064	2.925	12.0	21.4
10 8	22 6.47	- 9 55.6	1.372	2.197	18.7	20.1	10 8	22 6.09	-17 41.1	2.162	2.928	14.7	21.6
<b>402287</b>	2005 ST <sub>175</sub>		8 29.1 346°23	4°7/ 3.0 18			<b>188163</b>	2002 GR <sub>111</sub>		8 29.2 243°15	1°0/30.4 18		
7 30	22 48.95	+ 6 35.2	1.932	2.780	13.9	20.7	7 30	22 48.62	- 2 37.7	2.344	3.223	10.6	20.4
8 9	22 44.37	+ 6 23.3	1.860	2.777	10.9	20.5	8 9	22 43.96	- 3 27.9	2.269	3.217	7.6	20.2
8 19	22 38.22	+ 5 51.1	1.809	2.775	7.7	20.4	8 19	22 37.97	- 4 30.3	2.218	3.210	4.3	19.9
8 29	22 31.16	+ 5 0.3	1.783	2.773	5.2	20.2	8 29	22 31.23	- 5 40.9	2.195	3.204	1.2	19.7
9 8	22 24.02	+ 3 55.5	1.784	2.771	5.2	20.2	9 8	22 24.40	- 6 54.5	2.201	3.197	3.3	19.9
9 18	22 17.64	+ 2 42.7	1.811	2.770	7.7	20.4	9 18	22 18.18	- 8 5.7	2.236	3.190	6.7	20.1
9 28	22 12.80	+ 1 28.9	1.864	2.768	10.9	20.5	9 28	22 13.22	- 9 9.5	2.297	3.183	9.9	20.3
10 8	22 10.00	+ 0 20.7	1.939	2.767	13.8	20.7	10 8	22 9.99	-10 2.1	2.381	3.176	12.6	20.4
<b>327206</b>	2005 NQ <sub>66</sub>		8 29.1 8°23	1°5/28.2 15			<b>417610</b>	2006 WK <sub>21</sub>		8 29.2 128°26	2°5/26.9 17		
7 30	22 51.22	-10 28.1	1.044	1.973	16.4	20.3	7 30	22 54.75	-12 54.9	1.722	2.630	12.3	21.3
8 9	22 46.73	-10 58.4	0.999	1.974	11.4	20.0	8 9	22 48.44	-14 1.3	1.676	2.642	8.4	21.1
8 19	22 39.66	-11 39.4	0.973	1.976	5.7	19.7	8 19	22 40.33	-15 12.6	1.654	2.653	4.4	20.9
8 29	22 31.18	-12 22.8	0.970	1.979	1.5	19.4	8 29	22 31.26	-16 21.3	1.659	2.664	2.6	20.8
9 8	22 22.80	-12 59.8	0.990	1.984	6.6	19.8	9 8	22 22.30	-17 20.2	1.691	2.674	5.9	21.0
9 18	22 15.95	-13 23.6	1.031	1.990	12.0	20.1	9 18	22 14.44	-18 4.2	1.750	2.684	9.8	21.3
9 28	22 11.77	-13 30.0	1.093	1.998	16.7	20.4	9 28	22 8.52	-18 30.6	1.832	2.693	13.2	21.5
10 8	22 10.82	-13 18.0	1.171	2.006	20.6	20.7	10 8	22 5.02	-18 39.1	1.934	2.702	16.1	21.8
<b>342384</b>	2008 UV <sub>32</sub>		8 29.2 303°45	3°1/31.9 18			<b>383182</b>	2005 WF <sub>160</sub>		8 29.2 141°85	8°7/ 8.9 18		
7 30	22 50.18	+ 1 12.2	1.588	2.468	14.7	20.2	7 30	22 57.08	+22 51.4	2.703	3.406	13.9	21.3
8 9	22 45.57	+ 0 46.6	1.510	2.454	11.1	19.9	8 9	22 49.72	+23 37.1	2.635	3.422	12.2	21.2
8 19	22 39.00	+ 0 0.7	1.454	2.440	7.0	19.7	8 19	22 40.92	+24 0.9	2.587	3.437	10.6	21.1
8 29	22 31.19	- 1 2.5	1.423	2.426	3.5	19.4	8 29	22 31.29	+24 0.9	2.563	3.451	9.3	21.1
9 8	22 23.17	- 2 16.6	1.417	2.413	4.7	19.5	9 8	22 21.60	+23 37.9	2.564	3.464	8.7	21.0
9 18	22 16.00	- 3 33.8	1.437	2.399	8.9	19.7	9 18	22 12.63	+22 54.8	2.591	3.477	9.1	21.1
9 28	22 10.69	- 4 46.0	1.481	2.386	13.1	19.9	9 28	22 5.06	+21 57.0	2.645	3.489	10.2	21.2
10 8	22 7.89	- 5 46.5	1.545	2.374	16.8	20.1	10 8	22 59.38	+20 51.0	2.721	3.500	11.7	21.3
<b>65665</b>	1986 RP <sub>5</sub>		8 29.2 321°27	5°6/24.6 18			<b>312742</b>	2010 TU <sub>33</sub>		8 29.2 176°43	1°1/27.9 18		
7 30	22 54.92	-24 22.2											

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>86597</b>	2000 <i>EG</i> <sub>68</sub>		8 29.2 169°88	0°4/28.9	17	R	<b>318644</b>	2005 <i>MJ</i> <sub>4</sub>		8 29.2 10°91	1°0/29.8	15	
7 30	22 55.01	- 8 5.4	1.867	2.761	12.2	20.9	7 30	22 49.49	- 6 12.5	0.926	1.855	18.0	19.9
8 9	22 48.59	- 8 43.1	1.806	2.765	8.5	20.7	8 9	22 45.68	- 6 21.2	0.885	1.858	12.8	19.6
8 19	22 40.42	- 9 29.7	1.769	2.768	4.3	20.4	8 19	22 39.22	- 6 46.9	0.863	1.863	6.9	19.3
8 29	22 31.28	-10 19.9	1.760	2.770	0.4	20.1	8 29	22 31.31	- 7 23.5	0.861	1.870	1.1	19.0
9 8	22 22.15	-11 7.9	1.779	2.772	4.4	20.5	9 8	22 23.53	- 8 1.9	0.880	1.879	5.9	19.4
9 18	22 13.97	-11 48.5	1.825	2.773	8.5	20.7	9 18	22 17.36	- 8 34.0	0.921	1.889	11.6	19.7
9 28	22 7.57	-12 18.1	1.897	2.774	12.1	20.9	9 28	22 13.97	- 8 53.3	0.981	1.902	16.6	20.0
10 8	22 3.47	-12 34.4	1.989	2.774	15.1	21.1	10 8	22 13.86	- 8 56.4	1.058	1.915	20.7	20.4
<b>367280</b>	2007 <i>TF</i> <sub>288</sub>		8 29.2 336°59	1°3/28.3	18		<b>126736</b>	2002 <i>CM</i> <sub>283</sub>		8 29.2 29°57	0°0/29.1	18	
7 30	22 48.64	- 8 27.2	0.972	1.903	17.0	20.2	7 30	22 50.22	- 7 8.2	1.914	2.812	11.7	19.7
8 9	22 45.29	- 9 20.9	0.913	1.889	11.9	19.9	8 9	22 45.22	- 7 43.2	1.857	2.817	8.2	19.5
8 19	22 39.16	-10 32.5	0.872	1.875	6.1	19.5	8 19	22 38.68	- 8 27.4	1.823	2.821	4.2	19.2
8 29	22 31.27	-11 52.6	0.854	1.863	1.4	19.2	8 29	22 31.30	- 9 16.3	1.817	2.827	0.1	18.9
9 8	22 23.15	-13 9.0	0.857	1.852	7.1	19.5	9 8	22 23.94	-10 4.3	1.837	2.832	4.0	19.3
9 18	22 16.41	-14 10.4	0.881	1.842	13.1	19.8	9 18	22 17.44	-10 46.3	1.885	2.838	7.9	19.5
9 28	22 12.44	-14 49.0	0.923	1.834	18.5	20.1	9 28	22 12.53	-11 18.4	1.957	2.843	11.4	19.7
10 8	22 11.98	-15 1.8	0.982	1.827	22.9	20.4	10 8	22 9.68	-11 38.2	2.051	2.850	14.3	19.9
<b>266891</b>	2009 <i>WR</i> <sub>49</sub>		8 29.2 177°65	1°4/27.6	18		<b>223198</b>	2003 <i>BP</i> <sub>20</sub>		8 29.2 227°32	1°8/27.6	18	
7 30	22 51.08	-13 18.1	2.659	3.558	8.8	20.9	7 30	22 54.67	-11 51.9	1.831	2.734	11.9	20.5
8 9	22 45.48	-13 44.4	2.597	3.558	6.0	20.7	8 9	22 48.51	-12 39.1	1.762	2.726	8.2	20.3
8 19	22 38.70	-14 13.3	2.560	3.559	3.1	20.5	8 19	22 40.48	-13 32.7	1.718	2.717	4.2	20.0
8 29	22 31.27	-14 41.0	2.552	3.559	1.5	20.4	8 29	22 31.34	-14 26.6	1.700	2.708	1.9	19.8
9 8	22 23.85	-15 4.2	2.574	3.559	3.9	20.6	9 8	22 22.09	-15 14.5	1.711	2.698	5.4	20.1
9 18	22 17.07	-15 20.1	2.623	3.559	6.9	20.8	9 18	22 13.75	-15 51.2	1.748	2.688	9.4	20.3
9 28	22 11.52	-15 26.8	2.699	3.559	9.5	20.9	9 28	22 7.21	-16 13.3	1.809	2.677	13.1	20.5
10 8	22 7.61	-15 23.5	2.797	3.559	11.8	21.1	10 8	22 3.06	-16 19.6	1.891	2.666	16.2	20.7
<b>510512</b>	2012 <i>BA</i> <sub>58</sub>		8 29.2 11°94	5°1/22.9	18		<b>480436</b>	2015 <i>KZ</i> <sub>131</sub>		8 29.2 4°31	8°2/21.3	18	
7 30	22 49.52	-21 13.8	2.074	2.990	10.1	20.2	7 30	22 52.24	-27 43.2	1.576	2.494	12.5	20.2
8 9	22 44.76	-22 56.8	2.027	2.991	7.3	20.0	8 9	22 47.04	-29 17.8	1.538	2.494	9.8	20.1
8 19	22 38.45	-24 38.2	2.005	2.991	5.3	19.9	8 19	22 39.75	-30 42.9	1.523	2.495	8.3	20.0
8 29	22 31.26	-26 9.9	2.011	2.992	5.6	19.9	8 29	22 31.32	-31 48.5	1.532	2.495	8.9	20.0
9 8	22 24.04	-27 24.9	2.044	2.993	7.9	20.1	9 8	22 22.96	-32 27.5	1.565	2.497	11.1	20.2
9 18	22 17.62	-28 19.0	2.102	2.993	10.6	20.3	9 18	22 15.83	-32 37.4	1.621	2.498	14.0	20.3
9 28	22 12.76	-28 50.3	2.183	2.994	13.2	20.4	9 28	22 10.89	-32 19.1	1.696	2.501	16.7	20.5
10 8	22 9.95	-29 0.0	2.283	2.995	15.4	20.6	10 8	22 8.65	-31 36.7	1.788	2.503	19.0	20.7
<b>77275</b>	2001 <i>FO</i> <sub>57</sub>		8 29.2 134°27	2°3/27.2	18		<b>360681</b>	2004 <i>RE</i> <sub>272</sub>		8 29.2 359°42	0°1/29.1	18	
7 30	22 55.96	-12 42.6	1.725	2.630	12.4	19.6	7 30	22 49.45	- 6 54.9	1.985	2.882	11.4	21.1
8 9	22 49.28	-13 40.1	1.677	2.642	8.5	19.4	8 9	22 44.69	- 7 37.9	1.922	2.882	8.0	20.9
8 19	22 40.77	-14 42.4	1.654	2.654	4.4	19.2	8 19	22 38.42	- 8 30.7	1.883	2.881	4.1	20.6
8 29	22 31.31	-15 42.5	1.659	2.665	2.4	19.1	8 29	22 31.30	- 9 28.3	1.871	2.881	0.1	20.3
9 8	22 21.96	-16 33.7	1.690	2.675	5.7	19.3	9 8	22 24.16	-10 25.2	1.887	2.881	4.0	20.6
9 18	22 13.74	-17 11.0	1.748	2.685	9.7	19.6	9 18	22 17.79	-11 15.9	1.930	2.881	7.8	20.9
9 28	22 7.49	-17 31.9	1.831	2.694	13.2	19.8	9 28	22 12.95	-11 56.2	1.997	2.882	11.3	21.1
10 8	22 3.70	-17 36.1	1.933	2.702	16.0	20.1	10 8	22 10.10	-12 23.5	2.087	2.883	14.1	21.3
<b>195559</b>	2002 <i>JT</i> <sub>71</sub>		8 29.2 156°65	2°9/ 1.5	18		<b>114881</b>	2003 <i>QJ</i> <sub>14</sub>		8 29.2 277°16	4°4/ 2.4	18	
7 30	22 51.53	+ 3 16.5	2.261	3.112	12.0	20.5	7 30	22 51.74	+ 5 16.0	2.406	3.244	11.8	19.8
8 9	22 45.95	+ 2 35.0	2.194	3.120	9.0	20.3	8 9	22 46.21	+ 5 33.4	2.315	3.227	9.3	19.6
8 19	22 38.99	+ 1 37.4	2.150	3.127	5.8	20.1	8 19	22 39.22	+ 5 36.5	2.247	3.210	6.7	19.4
8 29	22 31.28	+ 0 26.9	2.134	3.134	3.2	19.9	8 29	22 31.32	+ 5 25.7	2.206	3.193	4.6	19.2
9 8	22 23.56	- 0 51.3	2.147	3.140	3.8	20.0	9 8	22 23.23	+ 5 3.1	2.192	3.175	4.8	19.2
9 18	22 16.56	- 2 11.3	2.188	3.145	6.7	20.2	9 18	22 15.70	+ 4 31.9	2.206	3.158	7.0	19.3
9 28	22 10.95	- 3 27.2	2.257	3.150	9.8	20.4	9 28	22 9.44	+ 3 56.7	2.247	3.140	9.8	19.5
10 8	22 7.19	- 4 34.2	2.350	3.154	12.5	20.6	10 8	22 4.97	+ 3 22.0	2.311	3.122	12.5	19.6
<b>379195</b>	2009 <i>SO</i> <sub>29</sub>		8 29.2 289°97	3°3/26.9	18		<b>269747</b>	1998 <i>WL</i> <sub>29</sub>		8 29.2 291°67	0°6/28.5	18	
7 30	22 55.89	-15 27.7	1.479	2.395	13.4	20.7	7 30	22 50.22	- 9 24.1	2.213	3.112	10.3	21.4
8 9	22 49.75	-16 4.8	1.410	2.379	9.4	20.4	8 9	22 45.19	- 9 57.6	2.136	3.097	7.2	21.1
8 19	22 41.26	-16 45.3	1.364	2.363	5.2	20.2	8 19	22 38.69	-10 38.1	2.084	3.083	3.7	20.9
8 29	22 31.33	-17 21.9	1.343	2.347	3.4	20.0	8 29	22 31.31	-11 21.5	2.059	3.068	0.7	20.6
9 8	22 21.22	-17 47.6	1.348	2.331	7.0	20.2	9 8	22 23.82	-12 2.9	2.062	3.054	4.0	20.9
9 18	22 12.22	-17 57.4	1.377	2.316	11.5	20.4	9 18	22 16.99	-12 38.1	2.093	3.040	7.7	21.1
9 28	22 5.49	-17 49.1	1.429	2.300	15.7	20.6	9 28	22 11.55	-13 3.5	2.149	3.026	10.9	21.2
10 8	22 1.69	-17 23.1	1.498	2.285	19.2	20.8	10 8	22 7.99	-13 17.3	2.227	3.012	13.7	21.4
<b>193624</b>	2001 <i>CW</i> <sub>26</sub>		8 29.2 235°89	6°6/22.2	18		<b>341086</b>	2007 <i>HJ</i> <sub>97</sub>		8 29.2 89°24	0°8/28.4	17	
7 30	22 56.11	-27 47.9	2.150	3.052	10.4	20.2	7 30	22 52.60	- 8 7.1	1.659	2.562	12.9	20.6
8 9	22 49.41	-28 58.8	2.091	3.039	8.1	20.0	8 9	22 46.99	- 9 9.5	1.613	2.576	8.9	20.4
8 19	22 40.90	-30 2.5	2.056	3.026	6.7	19.9	8 19	22 39.62	-10 21.7	1.590	2.590	4.5	20.2
8 29	22 31.32	-30 51.9	2.049	3.012	7.1	19.9	8 29	22 31.33	-11 36.7	1.594	2.604	0.9	19.9
9 8	22 21.67	-31 21.3	2.068	2.997	9.0	20.0	9 8	22 23.15	-12 46.9	1.625	2.617	4.9	20.3
9 18	22 12.93	-31 28.2	2.113	2.982	11.5	20.1	9 18	22 16.05	-13 46.0	1.683	2.631	9.1	20.5
9 28	22 5.96	-31 12.7	2.179	2.966	14.0	20.3	9 28	22 10.83	-14 29.7	1.765	2.644	12.8	20.8
10 8	22 1.35	-30 37.5	2.264	2.950	16.2	20.4	10 8	22 7.97	-14 56.2	1.866	2.657	15.8	21.0
<b>195083</b>	2002 <i>CD</i> <sub>108</sub>		8 29.2 108°92	0°1/29.1	18		<b>516063</b>	2015 <i>TW</i> <sub>197&lt;/</sub>					

EPHEMERIDES

8 29.2

8 29.2

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>170444</b>	2003 <i>UK</i> <sub>149</sub>		8 29.2 233°85	3°1/ 1.5	18		<b>22126</b>	2000 <i>SR</i> <sub>187</sub>		8 29.2 358°02	5°0/24.2	18	
7 30	22 50.38	+ 3 14.8	2.047	2.905	12.8	20.5	7 30	22 50.24	-19 53.3	1.764	2.684	11.3	17.6
8 9	22 45.39	+ 2 35.8	1.967	2.897	9.7	20.3	8 9	22 45.46	-21 14.6	1.714	2.682	8.1	17.4
8 19	22 38.83	+ 1 38.4	1.911	2.889	6.3	20.1	8 19	22 38.90	-22 35.2	1.689	2.681	5.4	17.2
8 29	22 31.33	+ 0 25.7	1.880	2.881	3.4	19.9	8 29	22 31.35	-23 46.6	1.691	2.681	5.4	17.2
9 8	22 23.70	- 0 56.9	1.878	2.872	4.1	19.9	9 8	22 23.81	-24 41.8	1.718	2.680	8.0	17.4
9 18	22 16.77	- 2 22.7	1.904	2.863	7.4	20.1	9 18	22 17.23	-25 16.4	1.770	2.681	11.2	17.6
9 28	22 11.32	- 3 44.7	1.955	2.853	10.8	20.3	9 28	22 12.46	-25 28.7	1.844	2.681	14.2	17.8
10 8	22 7.86	- 4 57.1	2.030	2.843	13.9	20.5	10 8	22 10.01	-25 20.0	1.936	2.682	16.8	18.0
<b>91762</b>	1999 <i>TH</i> <sub>192</sub>		8 29.2 245°83	1°0/30.2	18		<b>440429</b>	2005 <i>SK</i> <sub>8</sub>		8 29.2 341°39	3°8/ 1.9	18	
7 30	22 51.85	- 4 58.7	2.388	3.269	10.4	19.8	7 30	22 48.32	+ 3 32.0	1.761	2.629	14.1	21.2
8 9	22 46.19	- 5 8.8	2.312	3.261	7.4	19.6	8 9	22 44.12	+ 3 9.2	1.688	2.622	10.8	21.0
8 19	22 39.17	- 5 27.4	2.260	3.253	4.1	19.4	8 19	22 38.24	+ 2 26.3	1.638	2.616	7.2	20.8
8 29	22 31.34	- 5 51.8	2.236	3.245	1.1	19.2	8 29	22 31.35	+ 1 26.0	1.612	2.611	4.2	20.6
9 8	22 23.43	- 6 18.6	2.241	3.236	3.3	19.3	9 8	22 24.36	+ 0 13.9	1.612	2.606	4.7	20.6
9 18	22 16.17	- 6 44.3	2.274	3.228	6.7	19.5	9 18	22 18.17	- 1 3.0	1.638	2.601	8.0	20.8
9 28	22 10.22	- 7 5.3	2.334	3.219	9.8	19.7	9 28	22 13.61	- 2 17.3	1.690	2.597	11.6	21.0
10 8	22 6.07	- 7 19.3	2.416	3.210	12.5	19.9	10 8	22 11.24	- 3 22.5	1.763	2.594	14.9	21.2
<b>77950</b>	2002 <i>GG</i> <sub>134</sub>		8 29.2 9°93	4°7/ 1.6	18		<b>210378</b>	2007 <i>VD</i> <sub>63</sub>		8 29.2 319°40	1°7/27.7	18	
7 30	22 50.28	+ 2 32.4	1.078	1.974	18.8	19.0	7 30	22 52.04	-11 48.0	1.691	2.601	12.3	20.4
8 9	22 46.11	+ 2 24.9	1.025	1.975	14.3	18.7	8 9	22 46.77	-12 28.2	1.626	2.594	8.5	20.1
8 19	22 39.45	+ 1 49.8	0.991	1.977	9.3	18.5	8 19	22 39.62	-13 15.0	1.586	2.586	4.4	19.9
8 29	22 31.34	+ 0 50.7	0.978	1.980	5.2	18.3	8 29	22 31.38	-14 2.3	1.571	2.579	1.8	19.7
9 8	22 23.21	+ 0 23.9	0.988	1.984	6.1	18.3	9 8	22 23.07	-14 43.8	1.583	2.572	5.4	19.9
9 18	22 16.45	- 1 43.5	1.020	1.989	10.7	18.6	9 18	22 15.71	-15 14.3	1.620	2.565	9.6	20.1
9 28	22 12.23	- 2 57.1	1.073	1.995	15.4	18.9	9 28	22 10.20	-15 30.4	1.681	2.559	13.4	20.3
10 8	22 11.17	- 3 56.5	1.144	2.001	19.5	19.2	10 8	22 7.11	-15 30.8	1.762	2.553	16.5	20.6
<b>257503</b>	1996 <i>BQ</i> <sub>11</sub>		8 29.2 115°00	3°6/ 2.1	18		<b>518963</b>	2010 <i>HE</i> <sub>43</sub>		8 29.2 340°88	4°5/26.3	18	
7 30	22 51.08	+ 3 47.7	2.359	3.207	11.7	20.9	7 30	22 53.68	-19 3.4	1.415	2.338	13.4	19.5
8 9	22 45.61	+ 3 46.2	2.294	3.214	9.0	20.7	8 9	22 48.23	-19 27.0	1.353	2.323	9.5	19.2
8 19	22 38.83	+ 3 30.5	2.251	3.222	6.1	20.6	8 19	22 40.49	-19 49.0	1.313	2.310	5.8	19.0
8 29	22 31.33	+ 3 2.0	2.236	3.230	3.9	20.5	8 29	22 31.40	-20 2.3	1.297	2.297	4.7	18.9
9 8	22 23.83	+ 2 24.3	2.249	3.237	4.1	20.5	9 8	22 22.25	-20 1.0	1.306	2.286	7.8	19.0
9 18	22 17.03	+ 1 41.2	2.289	3.244	6.6	20.7	9 18	22 14.31	-19 41.8	1.339	2.276	12.0	19.2
9 28	22 11.55	+ 0 57.6	2.356	3.251	9.3	20.8	9 28	22 8.67	-19 4.3	1.393	2.267	15.9	19.5
10 8	22 7.84	+ 0 17.6	2.447	3.258	11.8	21.0	10 8	22 5.94	-18 10.2	1.466	2.259	19.2	19.7
<b>228077</b>	2008 <i>QD</i> <sub>6</sub>		8 29.2 322°99	2°9/ 3.6	17		<b>322744</b>	2000 <i>VA</i> <sub>42</sub>		8 29.2 313°19	5°6/25.8	18	
7 30	22 43.67	+ 7 6.1	3.989	4.808	7.8	20.1	7 30	22 56.88	-19 32.0	1.180	2.106	15.2	19.6
8 9	22 40.16	+ 6 48.1	3.903	4.802	6.2	19.9	8 9	22 50.90	-20 16.3	1.119	2.091	10.9	19.3
8 19	22 35.92	+ 6 19.7	3.842	4.796	4.5	19.8	8 19	22 42.04	-20 59.5	1.079	2.075	6.9	19.1
8 29	22 31.28	+ 5 42.0	3.808	4.790	3.1	19.7	8 29	22 31.43	-21 31.8	1.062	2.061	5.9	19.0
9 8	22 26.60	+ 4 57.1	3.803	4.784	3.0	19.7	9 8	22 20.65	-21 44.4	1.069	2.046	9.5	19.1
9 18	22 22.25	+ 4 7.6	3.827	4.779	4.3	19.8	9 18	22 11.35	-21 33.0	1.098	2.033	14.2	19.3
9 28	22 18.59	+ 3 16.3	3.879	4.773	6.0	19.9	9 28	22 4.86	-20 57.1	1.146	2.020	18.6	19.6
10 8	22 15.90	+ 2 26.4	3.956	4.767	7.7	20.0	10 8	22 1.90	-19 59.9	1.211	2.007	22.3	19.8
<b>159364</b>	4854 <i>P-L</i>		8 29.2 324°35	0°6/28.8	18		<b>119200</b>	2001 <i>QV</i> <sub>124</sub>		8 29.2 4°18	2°0/27.9	17	
7 30	22 50.26	- 7 36.8	1.359	2.273	14.5	19.5	7 30	22 50.54	-11 3.0	1.073	2.003	16.0	19.5
8 9	22 45.90	- 8 24.9	1.291	2.259	10.2	19.2	8 9	22 46.30	-11 44.7	1.026	2.002	11.1	19.3
8 19	22 39.31	- 9 27.4	1.245	2.245	5.2	18.9	8 19	22 39.55	-12 36.7	0.999	2.002	5.6	19.0
8 29	22 31.35	-10 37.3	1.223	2.233	0.6	18.5	8 29	22 31.38	-13 30.2	0.995	2.003	2.1	18.7
9 8	22 23.20	-11 45.8	1.226	2.220	5.6	18.8	9 8	22 23.26	-14 15.7	1.013	2.006	6.8	19.1
9 18	22 16.10	-12 44.6	1.253	2.209	10.7	19.1	9 18	22 16.60	-14 46.0	1.053	2.010	12.1	19.4
9 28	22 11.14	-13 27.3	1.302	2.198	15.2	19.3	9 28	22 12.54	-14 56.8	1.114	2.015	16.8	19.7
10 8	22 9.01	-13 50.8	1.369	2.188	19.0	19.6	10 8	22 11.63	-14 47.3	1.191	2.022	20.6	19.9
<b>35526</b>	1998 <i>FX</i> <sub>67</sub>		8 29.2 72°36	0°9/28.3	18		<b>440173</b>	2003 <i>YB</i> <sub>133</sub>		8 29.2 165°41	2°3/31.4	18	
7 30	22 51.91	- 9 53.5	1.975	2.876	11.3	19.0	7 30	22 54.43	- 1 4.2	2.298	3.162	11.3	21.2
8 9	22 46.28	-10 34.5	1.930	2.893	7.7	18.8	8 9	22 47.98	- 1 1.5	2.230	3.166	8.4	21.0
8 19	22 39.19	-11 21.6	1.910	2.909	3.9	18.6	8 19	22 40.09	- 1 9.9	2.186	3.170	5.2	20.8
8 29	22 31.35	-12 9.8	1.917	2.926	1.0	18.4	8 29	22 31.40	- 1 27.4	2.169	3.173	2.5	20.7
9 8	22 23.64	-12 53.7	1.952	2.943	4.4	18.7	9 8	22 22.70	- 1 50.8	2.182	3.175	3.7	20.8
9 18	22 16.86	-13 29.0	2.014	2.960	8.0	18.9	9 18	22 14.74	- 2 16.5	2.223	3.178	6.8	21.0
9 28	22 11.69	-13 52.7	2.101	2.976	11.2	19.2	9 28	22 8.23	- 2 40.6	2.291	3.179	9.9	21.2
10 8	22 8.56	-14 3.6	2.210	2.993	13.8	19.4	10 8	22 3.62	- 3 0.0	2.382	3.181	12.5	21.3
<b>477037</b>	2009 <i>AG</i> <sub>22</sub>		8 29.2 76°00	5°6/ 3.0	16		<b>384577</b>	2010 <i>GX</i> <sub>173</sub>		8 29.2 145°74	1°8/30.9	18	
7 30	22 54.83	+ 6 42.2	1.831	2.672	14.8	21.0	7 30	22 54.33	- 2 21.2	2.097	2.970	11.9	21.7
8 9	22 48.43	+ 7 6.1	1.778	2.689	11.6	20.8	8 9	22 47.98	- 2 33.9	2.035	2.979	8.6	21.5
8 19	22 40.34	+ 7 10.3	1.747	2.707	8.4	20.7	8 19	22 40.11	- 2 58.3	1.998	2.987	5.1	21.3
8 29	22 31.38	+ 6 55.7	1.741	2.725	6.0	20.6	8 29	22 31.41	- 3 31.2	1.988	2.994	2.0	21.1
9 8	22 22.49	+ 6 25.7	1.761	2.743	6.0	20.6	9 8	22 22.74	- 4 8.5	2.006	3.001	3.7	21.2
9 18	22 14.62	+ 5 45.3	1.808	2.760	8.3	20.8	9 18	22 14.91	- 4 45.7	2.053	3.008	7.2	21.5
9 28	22 8.55	+ 5 0.7	1.880	2.778	11.2	21.0	9 28	22 8.66	- 5 18.5	2.125	3.014	10.5	21.7
10 8	22 4.76	+ 4 18.0	1.975	2.795	13.9	21.2	10 8	22 4.44	- 5 43.7	2.220	3.019	13.3	21.9
<b>322418</b>	2011 <i>SX</i> <sub>102</sub>		8 29.2 354°08	2°5/27.3	18	R	<b>451357</b>	2010 <i>WY</i> <sub>53</sub>					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>350918</b>	2002 <i>RW</i> <sub>293</sub>		8 29.2 339°86	6°0/23.0	18		<b>116710</b>	2004 <i>CF</i> <sub>114</sub>		8 29.2 291°79	3°8/1.9	18	
7 30	22 49.59	-20 13.4	1.531	2.457	12.3	19.6	7 30	22 49.74	+ 3 58.0	1.838	2.699	13.9	20.3
8 9	22 45.28	-22 5.6	1.481	2.451	8.9	19.4	8 9	22 45.19	+ 3 31.7	1.751	2.681	10.7	20.0
8 19	22 38.94	-23 57.9	1.454	2.445	6.3	19.2	8 19	22 38.87	+ 2 44.7	1.686	2.663	7.2	19.8
8 29	22 31.40	-25 39.4	1.453	2.439	6.7	19.3	8 29	22 31.45	+ 1 39.3	1.646	2.645	4.2	19.6
9 8	22 23.78	-27 0.3	1.477	2.434	9.5	19.4	9 8	22 23.78	+ 0 20.8	1.633	2.627	4.7	19.6
9 18	22 17.21	-27 54.5	1.525	2.429	13.0	19.6	9 18	22 16.82	- 1 3.8	1.647	2.609	8.1	19.7
9 28	22 12.66	-28 20.0	1.593	2.426	16.3	19.8	9 28	22 11.45	- 2 26.5	1.686	2.591	11.9	19.9
10 8	22 10.73	-28 18.5	1.678	2.422	19.0	20.0	10 8	22 8.30	- 3 40.6	1.747	2.573	15.3	20.1
<b>79632</b>	1998 <i>RC</i> <sub>73</sub>		8 29.2 319°64	2°8/27.5	18		<b>299752</b>	2006 <i>RM</i> <sub>100</sub>		8 29.2 343°60	6°5/25.1	18	
7 30	22 56.28	-14 39.0	1.306	2.225	14.5	19.0	7 30	23 0.64	-26 23.9	1.666	2.572	12.7	20.0
8 9	22 50.19	-15 0.6	1.243	2.214	10.2	18.8	8 9	22 52.76	-26 42.2	1.613	2.568	9.6	19.8
8 19	22 41.58	-15 25.9	1.202	2.203	5.4	18.5	8 19	22 42.71	-26 50.5	1.583	2.564	7.1	19.7
8 29	22 31.46	-15 47.8	1.186	2.192	3.0	18.3	8 29	22 31.53	-26 42.2	1.579	2.561	6.7	19.6
9 8	22 21.23	-15 59.6	1.194	2.182	6.9	18.5	9 8	22 20.52	-26 13.4	1.601	2.558	9.0	19.8
9 18	22 12.31	-15 56.8	1.226	2.173	11.8	18.7	9 18	22 10.93	-25 23.8	1.648	2.555	12.1	20.0
9 28	22 5.89	-15 37.4	1.279	2.164	16.3	19.0	9 28	22 3.70	-24 15.6	1.718	2.553	15.2	20.2
10 8	22 2.64	-15 2.0	1.351	2.155	20.0	19.2	10 8	21 59.35	-22 53.0	1.807	2.551	17.9	20.4
<b>239518</b>	2008 <i>AL</i> <sub>8</sub>		8 29.2 5°79	6°1/2.3	18		<b>507976</b>	2015 <i>BU</i> <sub>95</sub>		8 29.2 265°62	2°4/30.7	17	
7 30	22 54.72	+ 4 40.9	1.584	2.443	15.8	19.2	7 30	22 56.92	- 3 5.2	1.432	2.322	15.4	22.1
8 9	22 48.72	+ 5 35.3	1.520	2.443	12.5	19.0	8 9	22 50.55	- 3 0.1	1.359	2.310	11.3	21.8
8 19	22 40.68	+ 6 11.0	1.477	2.444	9.0	18.8	8 19	22 41.79	- 3 10.1	1.307	2.299	6.7	21.5
8 29	22 31.44	+ 6 27.3	1.459	2.446	6.5	18.7	8 29	22 31.51	- 3 32.3	1.280	2.287	2.6	21.2
9 8	22 22.13	+ 6 26.0	1.465	2.448	6.7	18.7	9 8	22 21.00	- 4 1.7	1.279	2.275	5.1	21.3
9 18	22 13.84	+ 6 11.1	1.497	2.451	9.4	18.8	9 18	22 11.57	- 4 32.4	1.303	2.262	9.9	21.6
9 28	22 7.57	+ 5 48.7	1.553	2.455	12.8	19.1	9 28	22 4.39	- 4 58.3	1.350	2.250	14.5	21.8
10 8	22 3.90	+ 5 25.2	1.629	2.460	15.9	19.3	10 8	22 0.19	- 5 15.0	1.417	2.238	18.4	22.1
<b>8003</b>	Kelvin		8 29.2 339°15	2°9/27.3	18		<b>453434</b>	2009 <i>QA</i> <sub>6</sub>		8 29.2 272°86	16°2/6.8	17	
7 30	22 52.66	-12 33.4	1.072	2.001	16.0	16.2	7 30	23 0.25	+19 59.8	1.183	1.977	23.9	20.6
8 9	22 47.95	-13 24.9	1.018	1.993	11.1	15.9	8 9	22 53.60	+22 10.5	1.117	1.970	21.3	20.4
8 19	22 40.52	-14 25.8	0.984	1.986	5.8	15.6	8 19	22 43.71	+23 47.2	1.068	1.963	18.7	20.2
8 29	22 31.45	-15 26.3	0.972	1.979	3.1	15.4	8 29	22 31.56	+24 39.7	1.036	1.956	16.8	20.0
9 8	22 22.30	-16 16.2	0.983	1.973	7.7	15.7	9 8	22 18.79	+24 43.9	1.023	1.949	16.2	20.0
9 18	22 14.60	-16 47.5	1.016	1.968	13.1	16.0	9 18	22 7.24	+24 2.7	1.030	1.942	17.2	20.0
9 28	22 9.63	-16 56.3	1.069	1.964	17.9	16.2	9 28	21 58.64	+22 47.2	1.056	1.935	19.3	20.1
10 8	22 8.06	-16 42.4	1.138	1.961	21.9	16.5	10 8	21 53.98	+21 12.9	1.098	1.929	22.0	20.3
<b>239266</b>	2007 <i>GN</i> <sub>19</sub>		8 29.2 91°59	0°3/29.4	17		<b>289115</b>	2004 <i>TV</i> <sub>347</sub>		8 29.2 348°88	0°0/29.2	18	
7 30	22 56.56	- 5 59.8	1.219	2.125	16.3	21.3	7 30	22 49.48	- 7 30.6	1.583	2.491	13.1	20.2
8 9	22 50.22	- 6 39.2	1.174	2.137	11.5	21.1	8 9	22 45.08	- 7 55.6	1.518	2.483	9.2	20.0
8 19	22 41.48	- 7 33.6	1.150	2.149	6.0	20.8	8 19	22 38.82	- 8 31.3	1.476	2.476	4.8	19.7
8 29	22 31.47	- 8 35.5	1.151	2.160	0.4	20.5	8 29	22 31.46	- 9 12.9	1.459	2.469	0.1	19.3
9 8	22 21.63	- 9 36.1	1.176	2.172	5.5	20.9	9 8	22 24.03	- 9 54.2	1.468	2.464	4.6	19.7
9 18	22 13.29	-10 27.4	1.226	2.183	10.7	21.2	9 18	22 17.55	-10 29.6	1.502	2.460	9.1	19.9
9 28	22 7.52	-11 3.8	1.298	2.195	15.2	21.5	9 28	22 12.91	-10 54.3	1.560	2.456	13.1	20.2
10 8	22 4.83	-11 22.9	1.388	2.205	18.9	21.8	10 8	22 10.68	-11 5.5	1.637	2.454	16.5	20.4
<b>510103</b>	2010 <i>RO</i> <sub>22</sub>		8 29.2 332°82	3°4/31.5	17		<b>107178</b>	2001 <i>BE</i> <sub>25</sub>		8 29.2 271°66	2°3/24.5	17	
7 30	22 47.75	- 0 14.6	1.006	1.918	18.5	20.8	7 30	22 44.36	-19 34.5	4.388	5.292	5.5	19.2
8 9	22 44.69	- 0 32.5	0.938	1.900	13.9	20.4	8 9	22 40.65	-20 27.9	4.321	5.282	3.9	19.1
8 19	22 38.95	- 1 17.6	0.889	1.882	8.5	20.1	8 19	22 36.23	-21 20.9	4.282	5.272	2.5	18.9
8 29	22 31.43	- 2 26.4	0.860	1.867	3.7	19.8	8 29	22 31.41	-22 10.8	4.272	5.262	2.4	18.9
9 8	22 23.57	- 3 49.6	0.853	1.852	5.9	19.9	9 8	22 26.55	-22 54.9	4.292	5.252	3.7	19.0
9 18	22 16.92	- 5 15.3	0.867	1.839	11.6	20.1	9 18	22 22.00	-23 31.2	4.341	5.241	5.4	19.1
9 28	22 12.91	- 6 31.3	0.900	1.827	17.1	20.4	9 28	22 18.11	-23 58.2	4.415	5.231	6.9	19.2
10 8	22 12.34	- 7 28.8	0.951	1.816	21.9	20.6	10 8	22 15.16	-24 15.4	4.513	5.221	8.3	19.3
<b>248162</b>	2004 <i>VH</i> <sub>13</sub>		8 29.2 357°36	8°6/20.9	18		<b>264348</b>	1999 <i>XJ</i> <sub>137</sub>		8 29.2 287°79	0°8/28.7	18	
7 30	22 53.17	-27 48.0	1.518	2.437	12.9	19.5	7 30	22 54.71	- 9 11.8	1.437	2.345	14.2	20.4
8 9	22 47.82	-29 34.6	1.479	2.435	10.2	19.3	8 9	22 49.02	- 9 41.7	1.365	2.330	10.0	20.2
8 19	22 40.26	-31 11.5	1.464	2.435	8.7	19.3	8 19	22 41.00	-10 22.3	1.315	2.315	5.1	19.8
8 29	22 31.45	-32 27.7	1.473	2.434	9.4	19.3	8 29	22 31.53	-11 7.5	1.291	2.300	0.8	19.5
9 8	22 22.68	-33 15.4	1.505	2.434	11.7	19.4	9 8	22 21.83	-11 50.1	1.292	2.285	5.5	19.8
9 18	22 15.20	-33 31.6	1.560	2.434	14.6	19.6	9 18	22 13.18	-12 23.7	1.318	2.271	10.6	20.0
9 28	22 10.01	-33 17.6	1.634	2.434	17.4	19.8	9 28	22 6.73	-12 43.5	1.366	2.256	15.1	20.3
10 8	22 7.65	-32 37.6	1.723	2.435	19.7	20.0	10 8	22 3.19	-12 47.2	1.433	2.241	18.9	20.5
<b>152453</b>	2005 <i>UP</i> <sub>501</sub>		8 29.2 198°94	0°7/28.4	18		<b>520123</b>	2014 <i>AU</i> <sub>59</sub>		8 29.2 253°83	6°6/4.3	18	
7 30	22 49.27	- 8 20.4	2.386	3.280	9.8	20.5	7 30	22 52.84	+10 43.6	1.937	2.756	14.9	21.6
8 9	22 44.43	- 9 22.3	2.319	3.279	6.8	20.3	8 9	22 47.34	+10 54.5	1.848	2.741	12.3	21.4
8 19	22 38.29	-10 31.9	2.278	3.277	3.4	20.1	8 19	22 40.01	+10 43.0	1.780	2.725	9.4	21.2
8 29	22 31.42	-11 44.6	2.266	3.275	0.7	19.9	8 29	22 31.51	+10 8.4	1.736	2.709	7.2	21.0
9 8	22 24.49	-12 54.6	2.283	3.273	3.9	20.1	9 8	22 22.74	+ 9 13.5	1.718	2.692	6.8	20.9
9 18	22 18.20	-13 57.2	2.327	3.271	7.2	20.3	9 18	22 14.66	+ 8 3.6	1.726	2.676	8.8	21.0
9 28	22 13.18	-14 48.4	2.398	3.268	10.2	20.5	9 28	22 8.19	+ 6 46.0	1.760	2.658	11.8	21.2
10 8	22 9.88	-15 26.0	2.492	3.265	12.7	20.7	10 8	22 3.97	+ 5 28.7	1.816	2.641	14.8	21.3
<b>93550</b>	2000 <i>UY</i> <sub>23</sub>		8 29.2 232°41	4°4/24.8	18		<b>34141</b>	Antonwu		8 29.2 6			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>195525</b>	2002 <i>JN</i> <sub>21</sub>		8 29.2 106°75	6°7/ 5.4	18		<b>437664</b>	2014 <i>CJ</i> <sub>7</sub>		8 29.2 304°90	3°2/26.5	18	
7 30	22 51.76	+12 24.0	1.909	2.721	15.4	20.0	7 30	22 51.69	-13 43.3	1.493	2.411	13.1	20.3
8 9	22 46.39	+12 20.5	1.845	2.731	12.6	19.9	8 9	22 46.87	-14 54.6	1.426	2.397	9.1	20.1
8 19	22 39.40	+11 52.5	1.802	2.742	9.7	19.7	8 19	22 39.89	-16 13.5	1.383	2.383	4.9	19.8
8 29	22 31.50	+11 0.9	1.783	2.752	7.3	19.6	8 29	22 31.59	-17 31.2	1.365	2.369	3.5	19.7
9 8	22 23.60	+9 49.8	1.790	2.762	6.8	19.6	9 8	22 23.10	-18 38.6	1.373	2.355	7.1	19.9
9 18	22 16.58	+8 25.9	1.823	2.772	8.4	19.7	9 18	22 15.62	-19 28.7	1.405	2.342	11.5	20.1
9 28	22 11.20	+6 57.0	1.881	2.782	11.0	19.9	9 28	22 10.20	-19 57.1	1.459	2.329	15.5	20.3
10 8	22 7.98	+5 31.1	1.963	2.791	13.7	20.1	10 8	22 7.50	-20 3.4	1.531	2.316	18.9	20.5
<b>444277</b>	2005 <i>UT</i> <sub>380</sub>		8 29.2 344°77	2°8/31.8	15		<b>347495</b>	1998 <i>QP</i> <sub>2</sub>		8 29.2 356°44	1°0/30.0	18	
7 30	22 48.07	+0 21.6	1.618	2.503	14.2	20.7	7 30	22 53.52	-5 50.3	1.522	2.422	14.1	20.4
8 9	22 44.10	-0 2.2	1.547	2.494	10.6	20.5	8 9	22 47.95	-5 55.6	1.461	2.420	10.0	20.2
8 19	22 38.33	-0 44.7	1.499	2.486	6.6	20.3	8 19	22 40.35	-6 12.6	1.422	2.418	5.5	19.9
8 29	22 31.48	-1 42.4	1.474	2.479	3.1	20.0	8 29	22 31.60	-6 37.4	1.408	2.417	1.2	19.6
9 8	22 24.52	-2 49.2	1.476	2.472	4.4	20.1	9 8	22 22.81	-7 4.7	1.420	2.417	4.6	19.9
9 18	22 18.41	-3 57.9	1.503	2.467	8.4	20.3	9 18	22 15.10	-7 29.2	1.457	2.417	9.2	20.1
9 28	22 14.05	-5 1.1	1.553	2.462	12.4	20.6	9 28	22 9.43	-7 46.4	1.518	2.417	13.3	20.4
10 8	22 12.02	-5 53.0	1.625	2.458	15.9	20.8	10 8	22 6.37	-7 53.0	1.599	2.418	16.7	20.6
<b>14733</b>	2000 <i>DV</i> <sub>74</sub>		8 29.2 264°25	2°9/ 1.4	18		<b>328719</b>	2009 <i>TZ</i> <sub>20</sub>		8 29.2 304°45	3°5/ 2.5	18	
7 30	22 49.87	+3 6.8	2.029	2.889	12.8	18.2	7 30	22 47.58	+5 18.1	2.203	3.052	12.3	20.6
8 9	22 45.15	+2 18.3	1.941	2.873	9.7	18.0	8 9	22 43.45	+4 37.6	2.118	3.040	9.5	20.4
8 19	22 38.82	+1 10.1	1.877	2.857	6.2	17.7	8 19	22 37.91	+3 38.1	2.057	3.029	6.5	20.2
8 29	22 31.50	-0 14.3	1.839	2.841	3.2	17.5	8 29	22 31.54	+2 22.3	2.022	3.018	3.9	20.0
9 8	22 23.98	-1 49.0	1.830	2.824	4.0	17.5	9 8	22 25.05	+0 55.3	2.015	3.007	4.1	20.0
9 18	22 17.11	-3 26.8	1.848	2.808	7.5	17.7	9 18	22 19.15	-0 36.8	2.035	2.996	6.9	20.1
9 28	22 11.68	-5 0.0	1.893	2.791	11.1	17.9	9 28	22 14.56	-2 6.9	2.083	2.985	10.0	20.3
10 8	22 8.28	-6 22.3	1.960	2.773	14.3	18.1	10 8	22 11.77	-3 28.9	2.154	2.974	12.9	20.5
<b>468052</b>	2013 <i>RK</i> <sub>48</sub>		8 29.2 26°65	0°6/29.6	17		<b>492224</b>	2013 <i>TC</i> <sub>41</sub>		8 29.2 288°52	0°3/29.0	17	
7 30	22 52.70	-6 27.3	0.999	1.921	17.7	20.3	7 30	22 54.16	-7 56.0	1.459	2.365	14.2	21.6
8 9	22 47.80	-6 47.1	0.961	1.931	12.4	20.1	8 9	22 48.69	-8 27.6	1.382	2.346	10.0	21.3
8 19	22 40.34	-7 22.7	0.943	1.943	6.6	19.8	8 19	22 40.90	-9 11.5	1.328	2.327	5.2	21.0
8 29	22 31.53	-8 7.0	0.946	1.956	0.7	19.5	8 29	22 31.63	-10 2.2	1.298	2.308	0.3	20.6
9 8	22 22.96	-8 51.2	0.973	1.970	5.7	19.9	9 8	22 22.05	-10 52.2	1.294	2.289	5.3	20.9
9 18	22 16.04	-9 27.2	1.021	1.986	11.3	20.2	9 18	22 13.45	-11 34.6	1.316	2.270	10.4	21.1
9 28	22 11.87	-9 49.3	1.089	2.002	16.1	20.6	9 28	22 6.98	-12 3.9	1.360	2.251	15.0	21.4
10 8	22 10.91	-9 54.9	1.175	2.019	20.0	20.9	10 8	22 3.39	-12 17.1	1.422	2.233	18.9	21.6
<b>2388</b>	<i>Gase</i>		8 29.2 98°77	0°3/29.5	18	R	<b>474465</b>	2003 <i>SB</i> <sub>133</sub>		8 29.2 304°95	3°7/26.5	18	
7 30	22 56.18	-6 29.4	1.643	2.537	13.5	16.9	7 30	22 55.13	-16 55.1	1.577	2.492	12.7	21.0
8 9	22 49.49	-7 0.5	1.598	2.556	9.5	16.7	8 9	22 49.33	-17 32.3	1.497	2.465	9.0	20.7
8 19	22 40.98	-7 42.0	1.577	2.574	5.0	16.5	8 19	22 41.23	-18 11.8	1.441	2.439	5.2	20.5
8 29	22 31.56	-8 28.7	1.582	2.592	0.4	16.1	8 29	22 31.64	-18 46.4	1.410	2.412	3.9	20.3
9 8	22 22.33	-9 14.2	1.615	2.610	4.4	16.5	9 8	22 21.74	-19 9.2	1.405	2.386	7.2	20.5
9 18	22 14.28	-9 53.3	1.675	2.627	8.7	16.8	9 18	22 12.79	-19 15.3	1.425	2.360	11.5	20.6
9 28	22 8.25	-10 21.8	1.758	2.644	12.5	17.1	9 28	22 5.94	-19 2.6	1.467	2.334	15.6	20.8
10 8	22 4.69	-10 37.6	1.863	2.661	15.5	17.3	10 8	22 1.91	-18 31.5	1.527	2.309	19.1	21.0
<b>364550</b>	2007 <i>GY</i> <sub>31</sub>		8 29.2 171°11	3°4/24.7	18		<b>512926</b>	2016 <i>XA</i> <sub>20</sub>		8 29.2 56°61	5°7/ 3.2	18	
7 30	22 50.72	-19 43.5	2.730	3.635	8.4	21.7	7 30	22 53.93	+6 50.3	1.879	2.719	14.5	20.3
8 9	22 45.34	-20 46.9	2.676	3.638	5.9	21.5	8 9	22 47.90	+7 20.0	1.821	2.731	11.5	20.1
8 19	22 38.75	-21 49.3	2.650	3.640	3.9	21.4	8 19	22 40.21	+7 30.7	1.785	2.744	8.4	19.9
8 29	22 31.51	-22 45.7	2.652	3.642	3.7	21.4	8 29	22 31.62	+7 22.7	1.775	2.757	6.1	19.8
9 8	22 24.27	-23 31.7	2.683	3.644	5.6	21.5	9 8	22 23.05	+6 59.0	1.790	2.770	6.0	19.8
9 18	22 17.66	-24 4.5	2.741	3.645	8.0	21.7	9 18	22 15.42	+6 24.2	1.832	2.784	8.2	20.0
9 28	22 12.28	-24 22.5	2.825	3.646	10.3	21.8	9 28	22 9.50	+5 44.2	1.899	2.797	11.1	20.2
10 8	22 8.51	-24 25.9	2.929	3.646	12.2	22.0	10 8	22 5.79	+5 4.9	1.988	2.811	13.8	20.4
<b>47459</b>	1999 <i>XO</i> <sub>241</sub>		8 29.2 132°54	2°8/31.6	18		<b>138209</b>	2000 <i>EK</i> <sub>163</sub>		8 29.2 223°96	0°1/29.4	18	
7 30	22 53.08	+0 33.8	1.537	2.417	15.1	19.1	7 30	22 49.86	-6 59.8	2.713	3.599	9.1	21.1
8 9	22 47.60	+0 1.7	1.476	2.421	11.2	18.9	8 9	22 44.78	-7 32.0	2.638	3.592	6.4	20.9
8 19	22 40.15	-0 50.0	1.437	2.424	6.8	18.6	8 19	22 38.52	-8 11.2	2.588	3.585	3.3	20.7
8 29	22 31.56	-1 57.2	1.423	2.428	3.1	18.4	8 29	22 31.58	-8 54.2	2.567	3.577	0.2	20.4
9 8	22 22.93	-3 12.4	1.434	2.431	4.6	18.5	9 8	22 24.57	-9 37.2	2.576	3.570	3.1	20.6
9 18	22 15.36	-4 27.8	1.472	2.434	8.9	18.8	9 18	22 18.12	-10 16.5	2.613	3.562	6.2	20.8
9 28	22 9.79	-5 35.7	1.534	2.436	13.0	19.0	9 28	22 12.78	-10 49.1	2.677	3.553	9.0	21.0
10 8	22 6.77	-6 30.4	1.617	2.439	16.4	19.3	10 8	22 8.99	-11 12.6	2.764	3.545	11.4	21.2
<b>74945</b>	1999 <i>TV</i> <sub>178</sub>		8 29.2 232°85	1°3/28.1	18		<b>512861</b>	2016 <i>VS</i> <sub>16</sub>		8 29.2 354°07	2°3/31.2	18	
7 30	22 54.82	-9 55.0	1.769	2.670	12.4	20.4	7 30	22 51.51	-1 41.2	1.675	2.561	13.8	21.0
8 9	22 48.78	-10 48.1	1.697	2.659	8.6	20.2	8 9	22 46.43	-1 54.4	1.610	2.559	10.1	20.7
8 19	22 40.77	-11 50.5	1.648	2.647	4.4	19.9	8 19	22 39.54	-2 22.8	1.568	2.558	6.0	20.5
8 29	22 31.58	-12 55.7	1.626	2.635	1.4	19.6	8 29	22 31.60	-3 3.1	1.550	2.557	2.5	20.3
9 8	22 22.21	-13 56.7	1.632	2.622	5.2	19.9	9 8	22 23.60	-3 49.9	1.559	2.556	4.3	20.4
9 18	22 13.72	-14 47.2	1.665	2.608	9.5	20.1	9 18	22 16.53	-4 37.1	1.594	2.555	8.3	20.6
9 28	22 7.07	-15 22.9	1.722	2.594	13.4	20.3	9 28	22 11.26	-5 19.1	1.653	2.555	12.2	20.9
10 8	22 2.88	-15 41.9	1.799	2.580	16.6	20.5	10 8	22 8.33	-5 51.4	1.734	2.555	15.5	21.1
<b>518424</b>	2000 <i>WK</i> <sub>107</sub>		8 29.2 229°49	7°8/ 9.3	18		<b>13221</b>	<i>Nao</i>		8 29.2 242°48	1°4/30.5	18	
7 30	22 53.56	+23 55.6	3.146</										

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>111776</b>	2002 CX <sub>164</sub>		8 29.3 33°31'	2.8°/30.1	18		<b>507847</b>	2014 GM <sub>1</sub>		8 29.3 253°38'	3.0°/25.8	18	
7 30	23 10.67	- 7 28.3	1.349	2.233	16.5	18.1	7 30	22 56.56	-17 27.2	2.575	3.471	9.2	22.7
8 9	22 59.96	- 5 50.6	1.294	2.243	12.0	17.8	8 9	22 49.70	-18 24.0	2.482	3.441	6.5	22.5
8 19	22 46.58	- 4 18.3	1.262	2.254	6.9	17.6	8 19	22 41.23	-19 22.6	2.416	3.410	3.9	22.2
8 29	22 31.81	- 2 53.2	1.259	2.265	2.9	17.4	8 29	22 31.71	-20 17.6	2.380	3.377	3.2	22.1
9 8	22 17.32	- 1 36.7	1.284	2.277	5.7	17.6	9 8	22 21.91	-21 3.8	2.375	3.344	5.6	22.2
9 18	22 4.66	- 0 29.4	1.337	2.290	10.5	17.9	9 18	22 12.65	-21 37.3	2.397	3.309	8.6	22.4
9 28	21 54.97	+ 0 30.1	1.415	2.303	14.8	18.2	9 28	22 4.71	-21 55.7	2.446	3.274	11.5	22.5
10 8	21 48.81	+ 1 24.5	1.514	2.317	18.3	18.5	10 8	21 58.68	-21 58.8	2.517	3.236	13.9	22.7
<b>260261</b>	2004 SG <sub>19</sub>		8 29.3 256°93'	3.8°/ 2.9	18		<b>362579</b>	2010 VO <sub>120</sub>		8 29.3 239°93'	4.4°/24.1	18	
7 30	22 48.51	+ 6 29.9	2.330	3.169	12.1	20.5	7 30	22 51.67	-22 6.4	2.415	3.323	9.2	20.8
8 9	22 44.02	+ 5 55.4	2.249	3.163	9.4	20.3	8 9	22 46.21	-23 6.9	2.356	3.316	6.7	20.7
8 19	22 38.21	+ 5 2.7	2.190	3.156	6.6	20.1	8 19	22 39.33	-24 4.9	2.323	3.309	4.7	20.5
8 29	22 31.61	+ 3 54.0	2.158	3.150	4.2	19.9	8 29	22 31.66	-24 54.7	2.318	3.302	4.7	20.5
9 8	22 24.91	+ 2 33.7	2.154	3.143	4.2	19.9	9 8	22 23.95	-25 31.5	2.341	3.295	6.7	20.6
9 18	22 18.81	+ 1 7.7	2.179	3.137	6.6	20.1	9 18	22 16.95	-25 52.5	2.390	3.288	9.2	20.8
9 28	22 13.97	- 0 17.7	2.230	3.130	9.6	20.2	9 28	22 11.36	-25 56.4	2.463	3.281	11.7	21.0
10 8	22 10.86	- 1 36.7	2.305	3.123	12.3	20.4	10 8	22 7.64	-25 44.1	2.556	3.273	13.8	21.1
<b>149988</b>	2005 UK <sub>64</sub>		8 29.3 305°60'	3.4°/25.7	18		<b>379781</b>	2011 HB <sub>57</sub>		8 29.3 25°15'	2.6°/26.0	18	
7 30	22 50.75	-16 41.2	2.014	2.927	10.5	19.7	7 30	22 47.15	-14 40.0	2.221	3.134	9.7	19.9
8 9	22 45.75	-17 43.8	1.952	2.919	7.3	19.5	8 9	22 43.05	-15 51.6	2.178	3.146	6.6	19.8
8 19	22 39.15	-18 48.5	1.916	2.912	4.3	19.3	8 19	22 37.66	-17 5.7	2.160	3.158	3.6	19.6
8 29	22 31.63	-19 48.8	1.906	2.905	3.6	19.3	8 29	22 31.62	-18 16.3	2.170	3.171	2.8	19.6
9 8	22 24.04	-20 38.6	1.924	2.898	6.2	19.4	9 8	22 25.62	-19 18.0	2.207	3.185	5.3	19.8
9 18	22 17.26	-21 13.6	1.967	2.891	9.5	19.6	9 18	22 20.35	-20 6.5	2.272	3.199	8.2	20.0
9 28	22 12.05	-21 31.4	2.035	2.885	12.6	19.8	9 28	22 16.42	-20 39.4	2.360	3.214	10.9	20.2
10 8	22 8.92	-21 31.7	2.122	2.878	15.2	20.0	10 8	22 14.23	-20 56.1	2.470	3.229	13.2	20.4
<b>396463</b>	2014 FU <sub>23</sub>		8 29.3 260°24'	1.3°/30.2	18		<b>284039</b>	2004 YJ <sub>36</sub>		8 29.3 284°25'	5.2°/ 1.4	18	
7 30	22 56.91	- 5 24.8	1.916	2.799	12.4	21.3	7 30	22 59.47	+ 2 41.2	1.808	2.661	14.4	19.9
8 9	22 50.20	- 5 21.5	1.831	2.781	9.0	21.0	8 9	22 52.01	+ 3 38.6	1.732	2.655	11.2	19.7
8 19	22 41.55	- 5 27.8	1.769	2.763	5.0	20.8	8 19	22 42.51	+ 4 21.8	1.680	2.650	7.9	19.5
8 29	22 31.69	- 5 40.8	1.735	2.744	1.4	20.5	8 29	22 31.75	+ 4 49.9	1.653	2.644	5.4	19.3
9 8	22 21.59	- 5 57.0	1.730	2.725	4.1	20.6	9 8	22 20.81	+ 5 4.0	1.654	2.638	5.9	19.4
9 18	22 12.27	- 6 12.4	1.751	2.705	8.3	20.9	9 18	22 10.79	+ 5 6.8	1.683	2.633	8.9	19.5
9 28	22 4.67	- 6 23.0	1.799	2.685	12.2	21.1	9 28	22 2.67	+ 5 2.6	1.736	2.627	12.3	19.7
10 8	21 59.43	- 6 26.2	1.867	2.665	15.5	21.2	10 8	21 57.11	+ 4 56.6	1.812	2.622	15.4	19.9
<b>195494</b>	2002 GP <sub>162</sub>		8 29.3 240°48'	0.2°/29.5	18		<b>220230</b>	2002 VT <sub>143</sub>		8 29.3 23°96'	1.2°/30.2	18	
7 30	22 52.65	- 6 12.0	1.753	2.648	12.7	20.3	7 30	22 51.26	- 4 5.6	1.098	2.011	17.1	19.4
8 9	22 47.20	- 6 49.4	1.687	2.646	9.0	20.1	8 9	22 46.76	- 4 37.4	1.054	2.019	12.2	19.2
8 19	22 39.95	- 7 38.4	1.645	2.643	4.7	19.8	8 19	22 39.87	- 5 27.9	1.030	2.028	6.7	18.9
8 29	22 31.66	- 8 33.9	1.630	2.640	0.3	19.4	8 29	22 31.68	- 6 30.3	1.028	2.038	1.4	18.6
9 8	22 23.30	- 9 29.6	1.641	2.636	4.3	19.8	9 8	22 23.61	- 7 35.0	1.050	2.049	5.3	18.9
9 18	22 15.84	-10 19.5	1.679	2.633	8.6	20.0	9 18	22 16.98	- 8 33.0	1.095	2.060	10.7	19.2
9 28	22 10.16	-10 58.7	1.742	2.630	12.4	20.2	9 28	22 12.85	- 9 17.1	1.161	2.073	15.4	19.6
10 8	22 6.80	-11 24.3	1.825	2.627	15.7	20.5	10 8	22 11.75	- 9 43.3	1.245	2.086	19.2	19.8
<b>504441</b>	2008 BU <sub>46</sub>		8 29.3 124°86'	0.7°/29.8	17		<b>311983</b>	2007 EK <sub>201</sub>		8 29.3 148°58'	7.8°/ 7.7	18	
7 30	22 57.41	- 6 25.3	1.541	2.436	14.2	21.2	7 30	22 54.00	+19 32.7	2.767	3.499	13.0	20.5
8 9	22 50.59	- 6 36.1	1.485	2.443	10.1	20.9	8 9	22 47.72	+20 18.7	2.692	3.506	11.3	20.4
8 19	22 41.71	- 6 57.9	1.453	2.449	5.4	20.7	8 19	22 40.11	+20 45.4	2.638	3.512	9.6	20.3
8 29	22 31.70	- 7 26.2	1.446	2.455	0.8	20.4	8 29	22 31.70	+20 51.2	2.608	3.518	8.3	20.2
9 8	22 21.75	- 7 55.4	1.465	2.461	4.6	20.7	9 8	22 23.19	+20 36.8	2.605	3.524	7.8	20.2
9 18	22 12.99	- 8 20.5	1.511	2.467	9.2	21.0	9 18	22 15.27	+20 4.8	2.627	3.529	8.4	20.2
9 28	22 6.40	- 8 37.2	1.581	2.472	13.3	21.2	9 28	22 8.59	+19 19.6	2.675	3.534	9.6	20.3
10 8	22 2.51	- 8 42.9	1.671	2.477	16.7	21.5	10 8	22 3.62	+18 27.0	2.747	3.539	11.2	20.4
<b>346654</b>	2008 YT		8 29.3 289°89'	3.7°/ 1.1	18		<b>298662</b>	2004 CB <sub>42</sub>		8 29.3 192°60'	1.0°/28.3	18	
7 30	22 53.26	+ 1 12.2	1.733	2.604	14.1	20.9	7 30	22 54.95	-11 25.2	2.397	3.290	9.9	21.1
8 9	22 47.81	+ 1 18.0	1.648	2.585	10.8	20.6	8 9	22 48.41	-11 46.1	2.329	3.288	6.8	20.9
8 19	22 40.38	+ 1 7.0	1.584	2.566	7.0	20.4	8 19	22 40.46	-12 10.9	2.287	3.286	3.5	20.7
8 29	22 31.67	+ 0 40.8	1.546	2.546	4.0	20.1	8 29	22 31.72	-12 36.0	2.274	3.283	1.0	20.5
9 8	22 22.67	+ 0 3.1	1.534	2.527	4.9	20.2	9 8	22 22.96	-12 57.6	2.290	3.280	4.0	20.7
9 18	22 14.43	- 0 40.7	1.548	2.508	8.7	20.3	9 18	22 14.93	-13 12.6	2.335	3.276	7.3	21.0
9 28	22 7.96	- 1 24.3	1.586	2.489	12.6	20.5	9 28	22 8.32	-13 18.8	2.406	3.272	10.3	21.1
10 8	22 3.93	- 2 1.9	1.646	2.469	16.1	20.7	10 8	22 3.59	-13 15.2	2.499	3.267	12.8	21.3
<b>313138</b>	2001 CV <sub>18</sub>		8 29.3 120°16'	2.6°/25.9	18		<b>327780</b>	2006 UL <sub>177</sub>		8 29.3 341°46'	4.2°/26.4	18	
7 30	22 50.08	-15 17.6	2.546	3.451	8.9	20.2	7 30	22 50.83	-14 50.0	1.060	1.994	15.7	20.0
8 9	22 44.94	-16 32.3	2.499	3.463	6.1	20.1	8 9	22 46.80	-15 54.0	1.006	1.983	10.9	19.7
8 19	22 38.60	-17 48.7	2.479	3.476	3.4	19.9	8 19	22 40.08	-17 5.1	0.972	1.973	6.1	19.4
8 29	22 31.63	-19 1.5	2.488	3.487	2.8	19.9	8 29	22 31.71	-18 12.4	0.960	1.964	4.5	19.3
9 8	22 24.68	-20 5.4	2.526	3.499	5.0	20.1	9 8	22 23.22	-19 4.7	0.970	1.956	8.7	19.5
9 18	22 18.40	-20 56.9	2.591	3.510	7.7	20.2	9 18	22 16.14	-19 34.3	1.002	1.949	13.8	19.7
9 28	22 13.39	-21 33.5	2.682	3.521	10.2	20.4	9 28	22 11.76	-19 37.7	1.053	1.943	18.5	20.0
10 8	22 10.02	-21 54.8	2.795	3.532	12.3	20.6	10 8	22 10.74	-19 15.7	1.119	1.939	22.3	20.3
<b>485754</b>	2012 BD <sub>126</sub>		8 29.3 185°72'	1.8°/26.9	18		<b>257368</b>	2009 OO <sub>21</sub>		8 29.3 235°36'	0.4°/28.7	18	
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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>363957</b>	2005 <i>UU</i> <sub>32</sub>		8 29.3 212°42	0°8/28.4	18		<b>106125</b>	2000 <i>TS</i> <sub>35</sub>		8 29.3 192°18	1°7/30.6	17	
7 30	22 51.26	- 9 59.6	2.379	3.275	9.8	21.7	7 30	22 55.17	- 2 46.1	1.500	2.389	14.9	20.3
8 9	22 45.89	-10 36.7	2.311	3.271	6.8	21.5	8 9	22 49.20	- 3 13.7	1.437	2.389	10.8	20.1
8 19	22 39.17	-11 19.6	2.269	3.267	3.4	21.3	8 19	22 41.11	- 3 57.8	1.395	2.388	6.2	19.8
8 29	22 31.69	-12 4.2	2.254	3.264	0.8	21.1	8 29	22 31.77	- 4 53.8	1.379	2.387	1.9	19.5
9 8	22 24.16	-12 46.0	2.269	3.259	3.9	21.3	9 8	22 22.35	- 5 54.5	1.389	2.386	4.6	19.7
9 18	22 17.30	-13 21.1	2.311	3.255	7.2	21.5	9 18	22 14.02	- 6 52.8	1.425	2.384	9.3	20.0
9 28	22 11.77	-13 46.5	2.380	3.251	10.2	21.7	9 28	22 7.80	- 7 42.0	1.484	2.382	13.6	20.2
10 8	22 8.01	-14 0.5	2.470	3.246	12.8	21.9	10 8	22 4.29	- 8 17.7	1.564	2.379	17.2	20.5
<b>116701</b>	2004 <i>CJ</i> <sub>101</sub>		8 29.3 131°10	1°4/30.4	17		<b>240456</b>	2003 <i>YJ</i> <sub>93</sub>		8 29.3 311°43	1°9/27.6	18	
7 30	22 55.12	- 3 23.1	1.698	2.583	13.6	20.3	7 30	22 52.25	-11 58.7	1.679	2.590	12.3	20.3
8 9	22 48.87	- 3 51.3	1.641	2.592	9.8	20.1	8 9	22 47.06	-12 45.6	1.614	2.581	8.5	20.1
8 19	22 40.80	- 4 33.1	1.608	2.601	5.5	19.9	8 19	22 39.97	-13 39.2	1.573	2.573	4.4	19.8
8 29	22 31.73	- 5 24.1	1.601	2.610	1.5	19.6	8 29	22 31.75	-14 33.3	1.558	2.565	2.0	19.6
9 8	22 22.70	- 6 18.1	1.622	2.618	4.2	19.8	9 8	22 23.45	-15 21.0	1.569	2.558	5.6	19.9
9 18	22 14.72	- 7 8.9	1.669	2.626	8.4	20.1	9 18	22 16.09	-15 56.7	1.606	2.550	9.8	20.1
9 28	22 8.64	- 7 51.4	1.741	2.633	12.2	20.3	9 28	22 10.58	-16 17.0	1.667	2.543	13.6	20.3
10 8	22 4.98	- 8 22.0	1.834	2.640	15.4	20.6	10 8	22 7.50	-16 20.6	1.747	2.536	16.7	20.5
<b>365469</b>	2010 <i>OM</i> <sub>95</sub>		8 29.3 293°33	7°3/23.2	18		<b>280572</b>	2004 <i>TS</i> <sub>44</sub>		8 29.3 336°86	0°1/29.3	18	
7 30	23 0.04	-31 15.8	2.096	2.989	11.1	20.4	7 30	22 52.46	- 7 38.0	1.348	2.259	14.7	20.2
8 9	22 52.23	-31 47.5	2.038	2.977	8.9	20.2	8 9	22 47.53	- 7 57.0	1.284	2.249	10.4	20.0
8 19	22 42.52	-32 7.6	2.005	2.966	7.5	20.1	8 19	22 40.33	- 8 28.0	1.241	2.240	5.5	19.7
8 29	22 31.79	-32 9.6	1.997	2.954	7.6	20.1	8 29	22 31.77	- 9 5.8	1.222	2.232	0.2	19.2
9 8	22 21.15	-31 49.9	2.017	2.943	9.3	20.2	9 8	22 23.07	- 9 43.5	1.228	2.225	5.2	19.6
9 18	22 11.65	-31 7.9	2.061	2.932	11.7	20.3	9 18	22 15.50	-10 14.5	1.259	2.218	10.3	19.9
9 28	22 4.17	-30 5.7	2.128	2.921	14.1	20.5	9 28	22 10.15	-10 33.9	1.311	2.212	14.8	20.1
10 8	21 59.22	-28 47.2	2.215	2.910	16.3	20.6	10 8	22 7.66	-10 38.8	1.382	2.207	18.6	20.4
<b>515529</b>	2014 <i>FX</i> <sub>73</sub>		8 29.3 181°28	5°8/23.1	18		<b>308664</b>	2006 <i>BH</i> <sub>213</sub>		8 29.3 220°78	3°0/26.9	18	
7 30	22 56.39	-27 11.1	2.355	3.254	9.8	22.1	7 30	22 58.62	-17 3.6	1.942	2.844	11.4	20.8
8 9	22 49.49	-28 7.2	2.306	3.255	7.5	21.9	8 9	22 51.29	-17 29.1	1.875	2.837	8.0	20.6
8 19	22 41.03	-28 56.0	2.284	3.255	6.0	21.8	8 19	22 42.09	-17 54.6	1.834	2.830	4.5	20.4
8 29	22 31.75	-29 31.8	2.288	3.255	6.1	21.8	8 29	22 31.82	-18 14.8	1.820	2.822	3.2	20.3
9 8	22 22.52	-29 50.3	2.320	3.255	7.9	21.9	9 8	22 21.51	-18 24.8	1.834	2.814	5.9	20.4
9 18	22 14.21	-29 49.7	2.378	3.254	10.2	22.1	9 18	22 12.19	-18 21.9	1.876	2.805	9.6	20.6
9 28	22 7.54	-29 30.3	2.460	3.252	12.5	22.3	9 28	22 4.73	-18 4.9	1.942	2.796	12.9	20.8
10 8	22 2.98	-28 54.5	2.560	3.250	14.4	22.4	10 8	21 59.71	-17 34.6	2.028	2.786	15.7	21.0
<b>191288</b>	2003 <i>FZ</i> <sub>77</sub>		8 29.3 90°91	0°5/28.9	18		<b>105761</b>	2000 <i>SU</i> <sub>101</sub>		8 29.3 293°88	1°4/30.7	18	
7 30	22 53.44	- 7 39.3	1.615	2.517	13.3	20.3	7 30	22 51.00	- 3 15.8	2.006	2.889	11.9	20.3
8 9	22 47.76	- 8 28.9	1.564	2.527	9.2	20.1	8 9	22 45.97	- 3 37.0	1.929	2.879	8.6	20.1
8 19	22 40.24	- 9 29.1	1.537	2.536	4.7	19.9	8 19	22 39.33	- 4 10.4	1.877	2.869	5.0	19.9
8 29	22 31.73	-10 33.4	1.536	2.546	0.5	19.6	8 29	22 31.75	- 4 52.7	1.851	2.859	1.6	19.6
9 8	22 23.29	-11 34.5	1.562	2.556	4.8	19.9	9 8	22 24.04	- 5 39.2	1.852	2.849	3.7	19.8
9 18	22 15.93	-12 26.2	1.614	2.565	9.1	20.2	9 18	22 17.04	- 6 24.8	1.881	2.839	7.6	20.0
9 28	22 10.50	-13 4.1	1.690	2.574	12.9	20.5	9 28	22 11.55	- 7 4.6	1.935	2.829	11.1	20.2
10 8	22 7.52	-13 26.0	1.786	2.584	16.1	20.7	10 8	22 8.11	- 7 35.0	2.011	2.819	14.2	20.4
<b>261736</b>	2006 <i>AF</i> <sub>82</sub>		8 29.3 59°61	3°4/25.3	18		<b>141917</b>	2002 <i>PK</i> <sub>82</sub>		8 29.3 325°22	2°2/30.5	18	R
7 30	22 50.04	-17 19.3	2.235	3.146	9.7	19.9	7 30	22 53.24	- 4 41.3	1.131	2.043	16.9	19.4
8 9	22 45.12	-18 29.5	2.181	3.147	6.7	19.7	8 9	22 48.56	- 4 26.7	1.058	2.021	12.4	19.1
8 19	22 38.80	-19 40.6	2.154	3.149	4.1	19.5	8 19	22 41.11	- 4 27.6	1.004	2.000	7.2	18.7
8 29	22 31.69	-20 46.7	2.154	3.150	3.6	19.5	8 29	22 31.81	- 4 41.4	0.972	1.980	2.4	18.4
9 8	22 24.58	-21 42.0	2.182	3.152	6.0	19.7	9 8	22 22.09	- 5 2.3	0.963	1.961	5.7	18.5
9 18	22 18.21	-22 22.7	2.237	3.154	8.9	19.8	9 18	22 13.53	- 5 24.0	0.977	1.944	11.4	18.8
9 28	22 13.26	-22 46.6	2.316	3.155	11.6	20.0	9 28	22 7.55	- 5 39.7	1.011	1.927	16.7	19.0
10 8	22 10.18	-22 53.7	2.415	3.157	13.9	20.2	10 8	22 5.01	- 5 44.2	1.062	1.912	21.3	19.3
<b>284790</b>	2008 <i>YW</i> <sub>75</sub>		8 29.3 340°72	8°1/21.2	18		<b>147655</b>	2004 <i>JF</i> <sub>36</sub>		8 29.3 249°66	4°4/ 1.7	18	
7 30	22 51.10	-25 29.2	1.484	2.408	12.8	19.4	7 30	22 54.43	+ 3 0.7	1.646	2.510	15.1	20.3
8 9	22 46.54	-27 24.3	1.439	2.401	9.8	19.2	8 9	22 48.65	+ 3 5.3	1.572	2.503	11.6	20.1
8 19	22 39.78	-29 13.4	1.418	2.395	8.2	19.1	8 19	22 40.84	+ 2 50.6	1.519	2.496	7.8	19.8
8 29	22 31.73	-30 44.6	1.421	2.390	8.9	19.2	8 29	22 31.81	+ 2 18.2	1.492	2.489	4.7	19.7
9 8	22 23.62	-31 48.9	1.448	2.385	11.4	19.3	9 8	22 22.59	+ 1 32.4	1.490	2.482	5.3	19.7
9 18	22 16.68	-32 21.7	1.497	2.381	14.6	19.5	9 18	22 14.29	+ 0 39.4	1.515	2.475	8.8	19.9
9 28	22 11.94	-32 23.1	1.566	2.377	17.5	19.7	9 28	22 7.89	- 0 13.8	1.564	2.467	12.7	20.1
10 8	22 10.01	-31 56.5	1.650	2.374	20.0	19.9	10 8	22 4.03	- 1 0.8	1.634	2.459	16.1	20.3
<b>183900</b>	2004 <i>CU</i> <sub>82</sub>		8 29.3 52°62	0°9/28.6	17		<b>200528</b>	2001 <i>CG</i> <sub>48</sub>		8 29.3 269°96	10°4/18.1	18	
7 30	22 54.84	- 9 15.5	1.427	2.336	14.2	20.4	7 30	22 57.85	-36 30.8	1.827	2.717	12.6	20.0
8 9	22 48.99	- 9 53.2	1.372	2.338	9.9	20.2	8 9	22 51.21	-38 6.1	1.780	2.702	11.0	19.9
8 19	22 40.98	-10 40.9	1.340	2.340	5.1	19.9	8 19	22 42.22	-39 25.9	1.755	2.687	10.4	19.8
8 29	22 31.76	-11 31.8	1.333	2.342	0.9	19.6	8 29	22 31.84	-40 20.5	1.755	2.672	11.2	19.9
9 8	22 22.56	-12 18.6	1.351	2.344	5.4	19.9	9 8	22 21.39	-40 43.6	1.778	2.656	13.0	19.9
9 18	22 14.56	-12 55.0	1.395	2.347	10.2	20.2	9 18	22 12.17	-40 33.8	1.822	2.641	15.3	20.1
9 28	22 8.77	-13 16.9	1.461	2.349	14.4	20.5	9 28	22 5.26	-39 53.3	1.884	2.625	17.5	20.2
10 8	22 5.76	-13 22.6	1.547	2.352	17.8	20.7	10 8	22 1.30	-38 47.5	1.962	2.609	19.4	20.3
<b>159499</b>	2000 <i>UH</i> <sub>38</sub>		8 29.3 337°31	4°0/ 1.1	18		<b>427881</b>	2005 <i>SC</i>					

EPHEMERIDES

8 29.3

8 29.3

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>60179</b>	1999 VE <sub>7</sub>	8 29.3	20°69	1.6°/27.9	18		<b>34445</b>	2000 SX <sub>73</sub>	8 29.3	49°21	9°0/23.3	18	
7 30	22 51.20	-11 32.4	1.662	2.574	12.4	18.4	7 30	23 0.12	-29 56.3	1.419	2.329	14.2	17.8
8 9	22 46.20	-12 8.5	1.613	2.581	8.5	18.2	8 9	22 52.64	-30 52.3	1.390	2.341	11.2	17.7
8 19	22 39.45	-12 50.5	1.588	2.588	4.3	18.0	8 19	22 42.82	-31 33.4	1.383	2.353	9.2	17.6
8 29	22 31.79	-13 32.6	1.588	2.596	1.6	17.8	8 29	22 31.90	-31 50.8	1.400	2.365	9.4	17.6
9 8	22 24.20	-14 8.8	1.615	2.605	5.2	18.0	9 8	22 21.40	-31 39.8	1.441	2.378	11.5	17.8
9 18	22 17.63	-14 34.6	1.667	2.614	9.2	18.3	9 18	22 12.62	-31 0.8	1.504	2.391	14.3	18.0
9 28	22 12.90	-14 47.0	1.742	2.624	12.8	18.6	9 28	22 6.53	-29 57.5	1.587	2.404	17.1	18.2
10 8	22 10.47	-14 44.9	1.838	2.635	15.7	18.8	10 8	22 3.54	-28 35.6	1.688	2.417	19.5	18.4
<b>40195</b>	1998 RU <sub>78</sub>	8 29.3	334°61	1°8/27.5	18		<b>186947</b>	2004 RE <sub>31</sub>	8 29.3	344°59	3°0/26.8	18	
7 30	22 48.95	-11 21.0	1.803	2.715	11.6	17.8	7 30	22 50.30	-14 52.3	1.565	2.486	12.5	19.5
8 9	22 44.69	-12 17.3	1.736	2.704	8.0	17.5	8 9	22 45.82	-15 37.3	1.504	2.475	8.7	19.2
8 19	22 38.73	-13 21.2	1.693	2.693	4.1	17.3	8 19	22 39.39	-16 26.5	1.466	2.465	4.7	19.0
8 29	22 31.77	-14 26.4	1.676	2.683	1.9	17.1	8 29	22 31.81	-17 12.8	1.452	2.456	3.2	18.9
9 8	22 24.70	-15 26.2	1.685	2.673	5.3	17.3	9 8	22 24.16	-17 49.3	1.464	2.449	6.5	19.1
9 18	22 18.44	-16 14.7	1.721	2.664	9.2	17.5	9 18	22 17.50	-18 11.1	1.501	2.442	10.6	19.3
9 28	22 13.81	-16 47.8	1.780	2.656	12.8	17.7	9 28	22 12.77	-18 15.4	1.559	2.436	14.3	19.5
10 8	22 11.37	-17 3.7	1.859	2.648	15.9	17.9	10 8	22 10.54	-18 1.8	1.637	2.431	17.5	19.7
<b>258867</b>	2002 PV <sub>167</sub>	8 29.3	309°67	0°6/28.8	18		<b>364025</b>	2005 VT <sub>116</sub>	8 29.3	272°90	3°0/1.3	18	
7 30	22 51.83	- 7 40.8	1.271	2.186	15.2	20.1	7 30	22 51.13	+ 1 30.0	2.251	3.111	11.7	21.0
8 9	22 47.36	- 8 27.6	1.197	2.165	10.7	19.7	8 9	22 45.98	+ 1 22.2	2.165	3.096	8.9	20.8
8 19	22 40.40	- 9 30.0	1.145	2.145	5.6	19.4	8 19	22 39.35	+ 1 0.5	2.102	3.081	5.8	20.6
8 29	22 31.82	-10 41.2	1.115	2.125	0.6	19.0	8 29	22 31.81	+ 0 26.7	2.066	3.066	3.2	20.4
9 8	22 22.90	-11 51.7	1.111	2.106	5.9	19.3	9 8	22 24.10	- 0 15.9	2.057	3.050	3.9	20.4
9 18	22 15.01	-12 52.4	1.129	2.087	11.4	19.6	9 18	22 16.99	- 1 2.6	2.077	3.035	6.9	20.6
9 28	22 9.44	-13 36.0	1.169	2.068	16.4	19.8	9 28	22 11.21	- 1 48.5	2.123	3.019	10.1	20.8
10 8	22 6.96	-13 58.8	1.227	2.050	20.6	20.0	10 8	22 7.30	- 2 29.2	2.191	3.003	13.0	21.0
<b>371454</b>	2006 SZ <sub>322</sub>	8 29.3	244°77	2°8/31.9	18		<b>482905</b>	2014 HX <sub>25</sub>	8 29.3	16°13	5°7/24.4	18	
7 30	22 52.28	+ 1 44.7	1.651	2.524	14.6	21.0	7 30	22 54.77	-23 18.4	1.766	2.680	11.7	21.0
8 9	22 47.18	+ 0 56.2	1.573	2.513	10.9	20.8	8 9	22 48.71	-24 10.7	1.720	2.681	8.6	20.8
8 19	22 40.11	- 0 14.2	1.517	2.503	6.8	20.5	8 19	22 40.78	-24 57.8	1.697	2.683	6.1	20.7
8 29	22 31.82	- 1 42.2	1.487	2.492	3.1	20.3	8 29	22 31.85	-25 32.5	1.700	2.685	6.0	20.7
9 8	22 23.32	- 3 20.3	1.484	2.480	4.5	20.3	9 8	22 23.02	-25 49.3	1.729	2.687	8.3	20.8
9 18	22 15.66	- 4 59.6	1.507	2.468	8.7	20.5	9 18	22 15.32	-25 45.8	1.783	2.690	11.4	21.0
9 28	22 9.83	- 6 31.1	1.556	2.456	12.9	20.8	9 28	22 9.59	-25 22.2	1.859	2.693	14.3	21.2
10 8	22 6.47	- 7 48.1	1.626	2.444	16.5	21.0	10 8	22 6.33	-24 40.9	1.954	2.696	16.8	21.4
<b>132206</b>	2002 EP <sub>56</sub>	8 29.3	13°99	4°2/1.4	18		<b>21324</b>	1997 AY <sub>5</sub>	8 29.3	252°34	3°1/31.9	18	
7 30	22 48.47	+ 2 19.0	0.973	1.878	19.6	18.7	7 30	22 53.89	+ 0 37.9	1.902	2.769	13.2	19.7
8 9	22 45.10	+ 1 51.7	0.926	1.881	14.8	18.4	8 9	22 48.12	+ 0 32.3	1.820	2.756	9.9	19.4
8 19	22 39.18	+ 0 53.8	0.896	1.886	9.4	18.2	8 19	22 40.55	+ 0 11.2	1.760	2.743	6.3	19.2
8 29	22 31.79	- 0 29.0	0.887	1.892	4.7	17.9	8 29	22 31.85	- 0 23.4	1.727	2.729	3.3	19.0
9 8	22 24.42	- 2 5.6	0.900	1.899	5.9	18.0	9 8	22 22.95	- 1 7.2	1.721	2.715	4.4	19.0
9 18	22 18.49	- 3 43.1	0.935	1.907	10.9	18.3	9 18	22 14.79	- 1 54.9	1.743	2.701	8.0	19.2
9 28	22 15.19	- 5 9.3	0.991	1.917	15.9	18.7	9 28	22 8.27	- 2 40.8	1.790	2.687	11.7	19.4
10 8	22 15.07	- 6 15.8	1.064	1.928	20.2	19.0	10 8	22 4.01	- 3 19.9	1.858	2.672	15.0	19.6
<b>356211</b>	2009 RB <sub>63</sub>	8 29.3	312°49	1°0/31.2	17		<b>463414</b>	2013 HS <sub>78</sub>	8 29.3	96°83	1°4/28.4	17	
7 30	22 44.28	- 2 16.8	4.173	5.039	6.6	21.3	7 30	22 57.66	-10 14.3	1.237	2.150	15.6	21.4
8 9	22 40.67	- 2 39.3	4.095	5.034	4.8	21.2	8 9	22 51.20	-10 49.0	1.187	2.154	10.9	21.1
8 19	22 36.38	- 3 8.2	4.043	5.030	2.8	21.0	8 19	22 42.24	-11 33.3	1.158	2.158	5.6	20.8
8 29	22 31.72	- 3 41.7	4.020	5.026	1.1	20.9	8 29	22 31.90	-12 19.6	1.154	2.163	1.4	20.6
9 8	22 27.02	- 4 17.6	4.026	5.021	2.0	21.0	9 8	22 21.63	-12 59.8	1.174	2.167	6.1	20.9
9 18	22 22.64	- 4 53.6	4.062	5.017	4.0	21.1	9 18	22 12.83	-13 27.7	1.219	2.171	11.3	21.2
9 28	22 18.91	- 5 27.6	4.126	5.013	5.9	21.2	9 28	22 6.62	-13 39.4	1.285	2.175	15.8	21.5
10 8	22 16.11	- 5 57.5	4.215	5.009	7.6	21.4	10 8	22 3.58	-13 34.0	1.370	2.179	19.5	21.8
<b>106778</b>	2000 XL <sub>19</sub>	8 29.3	265°56	3°6/25.9	18		<b>305210</b>	2007 WZ <sub>28</sub>	8 29.3	342°09	3°1/26.8	18	
7 30	22 54.14	-19 13.6	2.182	3.088	10.1	19.6	7 30	22 54.53	-16 9.7	1.738	2.650	11.9	20.6
8 9	22 48.05	-19 49.9	2.117	3.080	7.1	19.4	8 9	22 48.57	-16 45.7	1.681	2.648	8.3	20.4
8 19	22 40.39	-20 25.0	2.078	3.071	4.4	19.2	8 19	22 40.73	-17 23.1	1.648	2.646	4.6	20.2
8 29	22 31.83	-20 53.7	2.067	3.063	3.8	19.2	8 29	22 31.86	-17 55.9	1.641	2.644	3.3	20.1
9 8	22 23.24	-21 11.5	2.083	3.054	6.1	19.3	9 8	22 23.01	-18 18.5	1.661	2.643	6.2	20.3
9 18	22 15.47	-21 15.5	2.126	3.046	9.1	19.5	9 18	22 15.19	-18 27.2	1.707	2.641	10.0	20.5
9 28	22 9.27	-21 4.8	2.194	3.037	12.0	19.6	9 28	22 9.27	-18 20.4	1.776	2.640	13.4	20.7
10 8	22 5.14	-20 39.8	2.282	3.029	14.5	19.8	10 8	22 5.80	-17 58.3	1.864	2.639	16.3	20.9
<b>387643</b>	2002 QC <sub>98</sub>	8 29.3	64°01	2°3/27.2	17		<b>445486</b>	2010 VQ <sub>162</sub>	8 29.3	275°95	0°3/29.6	17	
7 30	22 51.98	-12 15.5	1.724	2.634	12.1	20.9	7 30	22 51.24	- 6 33.2	2.251	3.140	10.6	22.2
8 9	22 46.74	-13 20.2	1.673	2.640	8.3	20.7	8 9	22 46.05	- 6 58.5	2.170	3.125	7.5	22.0
8 19	22 39.76	-14 30.9	1.646	2.646	4.3	20.5	8 19	22 39.38	- 7 32.6	2.115	3.111	4.0	21.8
8 29	22 31.81	-15 40.5	1.645	2.651	2.4	20.4	8 29	22 31.83	- 8 12.0	2.086	3.096	0.4	21.4
9 8	22 23.89	-16 41.7	1.672	2.657	5.7	20.6	9 8	22 24.14	- 8 52.2	2.086	3.081	3.6	21.7
9 18	22 16.96	-17 29.0	1.724	2.663	9.6	20.8	9 18	22 17.09	- 9 29.0	2.114	3.066	7.2	21.9
9 28	22 11.84	-17 59.1	1.800	2.669	13.1	21.1	9 28	22 11.38	- 9 58.6	2.168	3.052	10.5	22.1
10 8	22 9.03	-18 11.3	1.896	2.675	16.0	21.3	10 8	22 7.55	-10 18.3	2.244	3.037	13.4	22.2
<b>66580</b>	1999 RE <sub>155</sub>	8 29.3	20°18	2°7/31.5	18		<b>58440</b>	1996 HV	8 29.3	83°35	5°1/24.7	16	
7 30	22 51.45	- 0 30.8</											

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>314019</b>	2004 <i>WP</i> <sub>11</sub>		8 29.3 252°26	0°6/29.8	17		<b>478022</b>	2011 <i>SZ</i> <sub>206</sub>		8 29.3 116°33	2°1/31.9	16	
7 30	22 54.96	- 5 6.2	1.445	2.343	14.8	21.7	7 30	22 50.17	+ 2 56.6	1.955	2.817	13.1	20.7
8 9	22 49.27	- 5 44.6	1.374	2.333	10.6	21.4	8 9	22 45.37	+ 1 26.3	1.888	2.824	9.7	20.5
8 19	22 41.30	- 6 38.8	1.325	2.322	5.7	21.1	8 19	22 39.05	- 0 24.5	1.847	2.831	5.9	20.3
8 29	22 31.90	- 7 43.1	1.301	2.311	0.7	20.7	8 29	22 31.87	- 2 29.8	1.832	2.838	2.4	20.0
9 8	22 22.28	- 8 49.5	1.304	2.300	5.0	21.0	9 8	22 24.66	- 4 40.9	1.848	2.844	3.7	20.2
9 18	22 13.70	- 9 50.2	1.331	2.288	10.1	21.3	9 18	22 18.24	- 6 48.6	1.892	2.851	7.5	20.4
9 28	22 7.28	-10 38.4	1.382	2.276	14.6	21.5	9 28	22 13.34	- 8 44.7	1.964	2.857	11.0	20.6
10 8	22 3.72	-11 10.3	1.452	2.265	18.5	21.7	10 8	22 10.45	-10 23.5	2.059	2.863	14.0	20.9
<b>264089</b>	2009 <i>SJ</i> <sub>256</sub>		8 29.3 281°48	0°5/28.5	16		<b>256634</b>	2007 <i>VK</i> <sub>270</sub>		8 29.3 277°96	4°8/25.9	18	
7 30	22 45.81	-10 47.1	4.230	5.120	6.0	20.6	7 30	22 56.94	-17 44.8	1.382	2.301	13.9	20.2
8 9	22 41.73	-11 5.8	4.156	5.113	4.1	20.5	8 9	22 50.85	-18 44.8	1.316	2.285	9.9	19.9
8 19	22 36.95	-11 27.1	4.108	5.106	2.1	20.4	8 19	22 42.21	-19 47.2	1.272	2.269	6.0	19.7
8 29	22 31.77	-11 49.1	4.090	5.099	0.5	20.2	8 29	22 31.97	-20 42.5	1.254	2.252	5.1	19.6
9 8	22 26.58	-12 9.7	4.102	5.092	2.3	20.4	9 8	22 21.50	-21 21.8	1.260	2.236	8.5	19.7
9 18	22 21.71	-12 27.2	4.143	5.085	4.4	20.5	9 18	22 12.23	-21 39.5	1.290	2.220	12.9	19.9
9 28	22 17.53	-12 39.8	4.212	5.078	6.2	20.6	9 28	22 5.39	-21 33.6	1.340	2.203	17.1	20.2
10 8	22 14.30	-12 46.6	4.305	5.071	7.9	20.8	10 8	22 1.70	-21 5.4	1.409	2.187	20.6	20.4
<b>126857</b>	2002 <i>EH</i> <sub>78</sub>		8 29.3 192°53	0°2/29.1	18		<b>118949</b>	2000 <i>WM</i> <sub>88</sub>		8 29.3 189°98	5°7/21.2	18	
7 30	22 50.95	- 8 1.1	2.933	3.817	8.6	21.5	7 30	22 52.43	-29 15.7	2.851	3.747	8.4	19.6
8 9	22 45.52	- 8 35.2	2.861	3.815	6.0	21.4	8 9	22 46.69	-30 31.0	2.804	3.746	6.7	19.5
8 19	22 38.99	- 9 15.2	2.816	3.812	3.1	21.2	8 19	22 39.65	-31 39.6	2.784	3.744	5.7	19.4
8 29	22 31.84	- 9 57.9	2.799	3.809	0.2	20.9	8 29	22 31.89	-32 35.9	2.792	3.742	6.1	19.5
9 8	22 24.64	-10 39.6	2.813	3.805	3.0	21.2	9 8	22 24.10	-33 15.9	2.828	3.739	7.6	19.6
9 18	22 17.98	-11 17.1	2.856	3.801	5.9	21.3	9 18	22 16.97	-33 37.6	2.889	3.736	9.4	19.7
9 28	22 12.38	-11 47.6	2.926	3.796	8.5	21.5	9 28	22 11.13	-33 40.8	2.973	3.733	11.2	19.8
10 8	22 8.23	-12 9.3	3.020	3.791	10.8	21.7	10 8	22 7.02	-33 27.0	3.075	3.729	12.8	20.0
<b>434095</b>	2002 <i>FB</i> <sub>25</sub>		8 29.3 155°14	6°3/22.8	18		<b>145788</b>	1998 <i>QZ</i> <sub>18</sub>		8 29.3 41°45	3°2/31.9	18	
7 30	22 55.56	-25 25.4	1.972	2.880	11.0	21.2	7 30	22 53.44	- 0 0.7	1.675	2.552	14.2	18.9
8 9	22 49.17	-26 49.5	1.931	2.885	8.3	21.0	8 9	22 47.64	+ 0 5.2	1.634	2.575	10.5	18.7
8 19	22 41.01	-28 7.2	1.914	2.891	6.5	20.9	8 19	22 40.18	- 0 4.5	1.614	2.598	6.6	18.5
8 29	22 31.90	-29 10.5	1.925	2.896	6.8	20.9	8 29	22 31.90	- 0 27.0	1.620	2.622	3.4	18.4
9 8	22 22.84	-29 53.5	1.962	2.900	8.9	21.1	9 8	22 23.81	- 0 57.6	1.652	2.647	4.4	18.5
9 18	22 14.82	-30 13.4	2.024	2.904	11.5	21.3	9 18	22 16.80	- 1 31.2	1.710	2.671	7.9	18.8
9 28	22 8.65	-30 10.5	2.108	2.908	14.0	21.4	9 28	22 11.65	- 2 2.5	1.793	2.696	11.3	19.0
10 8	22 4.84	-29 47.3	2.211	2.911	16.2	21.6	10 8	22 8.78	- 2 27.3	1.898	2.722	14.3	19.3
<b>396576</b>	2000 <i>JW</i> <sub>42</sub>		8 29.3 41°77	11°3/20.5	17		<b>296106</b>	2009 <i>BG</i> <sub>44</sub>		8 29.3 15°40	0°8/28.6	18	
7 30	22 59.07	-37 6.7	1.525	2.421	14.3	19.5	7 30	22 50.33	- 7 58.2	1.563	2.471	13.2	19.9
8 9	22 51.86	-38 19.5	1.512	2.439	12.3	19.5	8 9	22 45.76	- 8 55.5	1.508	2.474	9.2	19.7
8 19	22 42.38	-39 10.4	1.521	2.458	11.3	19.5	8 19	22 39.34	-10 4.1	1.477	2.477	4.7	19.4
8 29	22 31.93	-39 31.3	1.552	2.477	11.8	19.5	8 29	22 31.89	-11 17.1	1.471	2.480	0.8	19.1
9 8	22 22.00	-39 18.7	1.605	2.497	13.4	19.7	9 8	22 24.43	-12 26.6	1.491	2.484	5.0	19.5
9 18	22 13.84	-38 34.5	1.679	2.518	15.5	19.9	9 18	22 17.98	-13 25.6	1.537	2.489	9.4	19.7
9 28	22 8.33	-37 23.7	1.771	2.538	17.5	20.1	9 28	22 13.41	-14 9.2	1.606	2.494	13.3	20.0
10 8	22 5.82	-35 52.7	1.880	2.559	19.2	20.3	10 8	22 11.23	-14 34.9	1.694	2.499	16.5	20.2
<b>174188</b>	2002 <i>QM</i> <sub>1</sub>		8 29.3 67°80	3°5/26.6	17		<b>20515</b>	1999 <i>RO</i> <sub>34</sub>		8 29.3 161°91	1°5/31.0	18	
7 30	22 55.74	-13 40.2	1.265	2.185	14.8	20.0	7 30	22 49.59	- 1 30.2	2.282	3.156	11.0	18.0
8 9	22 49.60	-15 3.0	1.237	2.208	10.1	19.8	8 9	22 44.83	- 2 12.9	2.213	3.157	8.0	17.8
8 19	22 41.28	-16 29.9	1.231	2.231	5.4	19.6	8 19	22 38.73	- 3 8.3	2.169	3.158	4.7	17.6
8 29	22 31.91	-17 50.2	1.250	2.254	3.8	19.6	8 29	22 31.89	- 4 12.6	2.152	3.159	1.7	17.4
9 8	22 22.86	-18 54.6	1.295	2.277	7.4	19.9	9 8	22 25.00	- 5 20.8	2.164	3.160	3.3	17.5
9 18	22 15.35	-19 37.5	1.363	2.300	11.7	20.2	9 18	22 18.77	- 6 27.5	2.204	3.161	6.7	17.7
9 28	22 10.30	-19 57.1	1.452	2.323	15.5	20.5	9 28	22 13.85	- 7 27.7	2.271	3.162	9.8	17.9
10 8	22 8.12	-19 54.8	1.560	2.346	18.6	20.8	10 8	22 10.68	- 8 17.7	2.360	3.163	12.5	18.1
<b>334831</b>	2003 <i>SK</i> <sub>398</sub>		8 29.3 211°33	4°6/24.6	18		<b>13644</b>	Lynnanderson		8 29.3 328°53	0°2/29.1	18	R
7 30	22 53.45	-19 52.5	1.983	2.894	10.7	21.1	7 30	22 50.07	- 8 4.9	1.811	2.714	12.0	17.6
8 9	22 47.73	-21 7.0	1.927	2.891	7.7	20.9	8 9	22 45.53	- 8 33.3	1.735	2.698	8.4	17.3
8 19	22 40.30	-22 20.8	1.896	2.887	5.1	20.7	8 19	22 39.25	- 9 11.2	1.684	2.683	4.4	17.1
8 29	22 31.89	-23 26.5	1.893	2.883	4.9	20.7	8 29	22 31.91	- 9 54.2	1.658	2.668	0.2	16.7
9 8	22 23.44	-24 17.7	1.917	2.879	7.3	20.8	9 8	22 24.42	-10 36.5	1.659	2.654	4.4	17.0
9 18	22 15.87	-24 50.4	1.967	2.875	10.4	21.0	9 18	22 17.70	-11 13.1	1.686	2.640	8.6	17.2
9 28	22 10.00	-25 2.9	2.039	2.870	13.3	21.2	9 28	22 12.62	-11 39.3	1.737	2.627	12.4	17.4
10 8	22 6.36	-24 56.2	2.131	2.865	15.8	21.4	10 8	22 9.76	-11 52.7	1.809	2.615	15.6	17.6
<b>260704</b>	2005 <i>JD</i> <sub>130</sub>		8 29.3 189°89	1°8/27.8	17		<b>306747</b>	2000 <i>XW</i> <sub>47</sub>		8 29.3 292°08	6°5/2.9	18	
7 30	22 55.58	-11 5.4	1.661	2.565	12.8	21.5	7 30	22 54.53	+ 6 51.4	1.676	2.522	15.7	20.6
8 9	22 49.40	-12 1.8	1.601	2.565	8.9	21.3	8 9	22 48.88	+ 7 26.8	1.591	2.505	12.6	20.4
8 19	22 41.24	-13 5.9	1.564	2.564	4.5	21.0	8 19	22 41.13	+ 7 42.1	1.527	2.487	9.4	20.1
8 29	22 31.93	-14 10.7	1.555	2.563	1.9	20.8	8 29	22 31.98	+ 7 36.1	1.486	2.469	6.9	19.9
9 8	22 22.58	-15 8.8	1.572	2.561	5.6	21.1	9 8	22 22.48	+ 7 10.8	1.471	2.452	6.9	19.9
9 18	22 14.26	-15 54.2	1.616	2.558	9.9	21.3	9 18	22 13.76	+ 6 30.8	1.481	2.434	9.6	20.0
9 28	22 7.92	-16 23.3	1.684	2.555	13.7	21.6	9 28	22 6.89	+ 5 43.1	1.514	2.417	13.1	20.2
10 8	22 4.13	-16 34.8	1.771	2.552	16.9	21.8	10 8	22 2.60	+ 4 55.0	1.569	2.400	16.5	20.4
<b>329746</b>	2004 <i>BL</i> <sub>70</sub>		8 29.3 188°77	3°2/26.5	18		<b>81057</b>	2000 <i>EQ</i> <sub>65</sub>		8 29.			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>462583</b>	2009 FO <sub>17</sub>		8 29.3 82°66	1.8°/28.1	17		<b>483452</b>	2001 XZ <sub>182</sub>		8 29.3 274°57	4.8°/23.2	17	
7 30	22 58.71	-11 14.6	1.322	2.232	15.0	21.2	7 30	22 53.70	-22 47.1	2.488	3.391	9.1	23.7
8 9	22 51.63	-11 55.4	1.286	2.252	10.3	21.0	8 9	22 47.92	-24 8.9	2.401	3.358	6.8	23.5
8 19	22 42.35	-12 43.0	1.272	2.272	5.2	20.7	8 19	22 40.49	-25 30.0	2.342	3.323	5.1	23.4
8 29	22 32.01	-13 29.7	1.284	2.292	1.8	20.6	8 29	22 31.99	-26 43.9	2.310	3.288	5.3	23.3
9 8	22 21.97	-14 8.1	1.321	2.312	6.0	20.9	9 8	22 23.19	-27 44.3	2.308	3.252	7.3	23.4
9 18	22 13.49	-14 33.2	1.383	2.331	10.6	21.2	9 18	22 14.91	-28 27.0	2.332	3.215	10.0	23.5
9 28	22 7.48	-14 42.2	1.468	2.351	14.7	21.5	9 28	22 7.96	-28 49.9	2.379	3.178	12.6	23.6
10 8	22 4.41	-14 35.2	1.572	2.369	17.9	21.8	10 8	22 2.96	-28 53.3	2.447	3.140	14.9	23.8
<b>56440</b>	2000 GY <sub>52</sub>		8 29.3 295°60	2.4°/27.9	18		<b>134560</b>	1999 RV <sub>174</sub>		8 29.3 310°89	0.1°/29.4	18	
7 30	22 57.42	-12 40.0	1.216	2.134	15.5	18.8	7 30	22 51.13	- 4 55.6	1.292	2.200	15.5	19.1
8 9	22 51.29	-13 12.4	1.156	2.126	10.8	18.5	8 9	22 46.78	- 5 58.0	1.225	2.189	11.0	18.8
8 19	22 42.47	-13 51.9	1.118	2.118	5.7	18.2	8 19	22 40.11	- 7 19.8	1.179	2.178	5.8	18.5
8 29	22 32.03	-14 30.9	1.103	2.110	2.5	18.0	8 29	22 31.98	- 8 53.3	1.158	2.168	0.3	18.1
9 8	22 21.47	-15 1.0	1.112	2.103	6.9	18.3	9 8	22 23.64	-10 28.2	1.161	2.158	5.4	18.4
9 18	22 12.29	-15 16.4	1.145	2.095	12.1	18.5	9 18	22 16.37	-11 54.0	1.189	2.148	10.8	18.7
9 28	22 5.76	-15 13.9	1.199	2.088	16.8	18.8	9 28	22 11.34	-13 2.2	1.239	2.138	15.6	19.0
10 8	22 2.56	-14 53.2	1.271	2.081	20.7	19.0	10 8	22 9.24	-13 48.4	1.307	2.129	19.6	19.2
<b>351032</b>	2003 SN <sub>125</sub>		8 29.3 318°29	0.3°/29.5	18		<b>295586</b>	2008 SC <sub>129</sub>		8 29.3 115°67	7.7°/ 7.0	18	
7 30	22 53.36	- 7 40.2	1.395	2.303	14.5	20.4	7 30	22 52.01	+15 59.2	1.943	2.731	16.0	20.8
8 9	22 48.41	- 7 46.5	1.309	2.274	10.4	20.0	8 9	22 46.72	+15 54.2	1.877	2.741	13.4	20.6
8 19	22 41.03	- 8 4.1	1.246	2.245	5.6	19.7	8 19	22 39.80	+15 22.3	1.830	2.752	10.7	20.5
8 29	22 31.99	- 8 28.9	1.206	2.216	0.4	19.2	8 29	22 31.97	+14 23.9	1.807	2.762	8.5	20.4
9 8	22 22.50	- 8 55.2	1.192	2.188	5.2	19.5	9 8	22 24.11	+13 2.8	1.810	2.771	7.7	20.3
9 18	22 13.91	- 9 16.7	1.201	2.161	10.6	19.7	9 18	22 17.12	+11 25.8	1.838	2.781	8.8	20.4
9 28	22 7.47	- 9 28.4	1.233	2.135	15.5	20.0	9 28	22 11.76	+ 9 41.6	1.892	2.790	11.1	20.6
10 8	22 4.02	- 9 26.9	1.283	2.110	19.6	20.2	10 8	22 8.55	+ 7 58.9	1.970	2.799	13.6	20.8
<b>204435</b>	2004 XB <sub>49</sub>		8 29.3 248°58	4.8°/24.8	18		<b>379651</b>	2011 EZ <sub>24</sub>		8 29.3 233°71	3.6°/26.4	17	
7 30	22 54.57	-20 20.7	1.847	2.759	11.3	20.0	7 30	22 57.44	-17 11.6	1.836	2.743	11.7	21.5
8 9	22 48.66	-21 26.8	1.787	2.751	8.1	19.8	8 9	22 50.69	-17 57.6	1.768	2.732	8.2	21.3
8 19	22 40.87	-22 31.8	1.752	2.743	5.4	19.7	8 19	22 41.96	-18 44.9	1.725	2.720	4.8	21.1
8 29	22 31.98	-23 28.0	1.744	2.735	5.2	19.6	8 29	22 32.04	-19 26.7	1.708	2.708	3.7	21.0
9 8	22 23.03	-24 8.9	1.762	2.726	7.7	19.8	9 8	22 22.00	-19 57.0	1.719	2.696	6.6	21.1
9 18	22 15.02	-24 30.5	1.806	2.717	11.0	19.9	9 18	22 12.92	-20 11.7	1.756	2.683	10.3	21.3
9 28	22 8.86	-24 31.5	1.872	2.708	14.1	20.1	9 28	22 5.75	-20 9.1	1.818	2.669	13.8	21.5
10 8	22 5.11	-24 13.1	1.957	2.699	16.7	20.3	10 8	22 1.09	-19 49.7	1.898	2.655	16.7	21.7
<b>277017</b>	2005 AL <sub>37</sub>		8 29.3 140°44	2.5°/26.7	17		<b>436856</b>	2012 SW <sub>50</sub>		8 29.3 346°64	8.6°/ 6.5	18	
7 30	22 54.17	-14 51.6	2.143	3.046	10.4	21.3	7 30	22 48.19	+13 59.9	1.395	2.225	19.1	20.8
8 9	22 48.03	-15 45.2	2.093	3.056	7.2	21.2	8 9	22 44.61	+13 57.6	1.324	2.219	15.9	20.6
8 19	22 40.39	-16 41.0	2.068	3.066	3.9	21.0	8 19	22 38.93	+13 20.9	1.270	2.213	12.6	20.4
8 29	22 31.97	-17 33.3	2.071	3.074	2.7	20.9	8 29	22 31.96	+12 9.4	1.238	2.209	9.7	20.2
9 8	22 23.61	-18 16.9	2.103	3.083	5.3	21.1	9 8	22 24.81	+10 28.1	1.228	2.205	8.7	20.2
9 18	22 16.11	-18 48.0	2.162	3.091	8.5	21.3	9 18	22 18.64	+ 8 26.4	1.242	2.201	10.4	20.2
9 28	22 10.18	-19 4.7	2.246	3.098	11.5	21.5	9 28	22 14.49	+ 6 17.3	1.280	2.199	13.7	20.4
10 8	22 6.28	-19 6.7	2.351	3.105	13.9	21.7	10 8	22 13.04	+ 4 13.4	1.338	2.197	17.1	20.6
<b>169796</b>	2002 PV <sub>177</sub>		8 29.3 16°25	1.7°/27.9	18		<b>513763</b>	2012 XP <sub>27</sub>		8 29.3 236°30	3.7°/ 2.2	18	
7 30	22 52.65	-11 22.2	1.628	2.538	12.7	20.4	7 30	22 52.95	+ 4 17.4	2.325	3.167	12.0	22.5
8 9	22 47.35	-12 7.4	1.573	2.539	8.8	20.2	8 9	22 47.29	+ 4 10.8	2.235	3.153	9.3	22.3
8 19	22 40.18	-12 59.6	1.541	2.541	4.5	20.0	8 19	22 40.12	+ 3 48.6	2.170	3.139	6.4	22.1
8 29	22 31.97	-13 52.3	1.535	2.543	1.8	19.8	8 29	22 32.01	+ 3 12.2	2.131	3.124	4.0	21.9
9 8	22 23.76	-14 38.6	1.556	2.546	5.4	20.0	9 8	22 23.72	+ 2 24.9	2.120	3.108	4.3	21.9
9 18	22 16.58	-15 13.4	1.602	2.548	9.6	20.3	9 18	22 16.01	+ 1 31.2	2.137	3.092	7.0	22.0
9 28	22 11.31	-15 33.0	1.671	2.551	13.4	20.5	9 28	22 9.62	+ 0 36.4	2.181	3.076	10.0	22.2
10 8	22 8.48	-15 36.5	1.761	2.554	16.5	20.7	10 8	22 5.10	- 0 14.6	2.249	3.058	12.8	22.3
<b>246682</b>	2008 YK <sub>161</sub>		8 29.3 45°80	7.4°/ 4.5	18		<b>232155</b>	2002 CF <sub>220</sub>		8 29.3 1°08	2.5°/27.8	18	
7 30	22 54.34	+10 19.6	1.713	2.540	16.2	20.0	7 30	22 57.33	-14 40.8	1.439	2.353	13.8	19.3
8 9	22 48.52	+10 59.0	1.649	2.546	13.3	19.8	8 9	22 50.82	-14 53.1	1.384	2.352	9.6	19.1
8 19	22 40.80	+11 15.4	1.607	2.551	10.3	19.6	8 19	22 42.07	-15 7.7	1.352	2.351	5.1	18.8
8 29	22 31.99	+11 7.8	1.587	2.558	7.9	19.5	8 29	22 32.09	-15 19.0	1.344	2.351	2.6	18.7
9 8	22 23.11	+10 38.7	1.593	2.564	7.6	19.5	9 8	22 22.16	-15 21.4	1.363	2.352	6.2	18.9
9 18	22 15.18	+ 9 53.3	1.623	2.570	9.4	19.6	9 18	22 13.53	-15 11.8	1.406	2.353	10.7	19.2
9 28	22 9.12	+ 8 58.9	1.678	2.577	12.2	19.8	9 28	22 7.21	-14 48.7	1.472	2.354	14.7	19.4
10 8	22 5.49	+ 8 3.1	1.754	2.584	15.0	20.0	10 8	22 3.77	-14 12.5	1.557	2.356	18.0	19.7
<b>342111</b>	2008 SJ <sub>88</sub>		8 29.3 280°80	4.0°/26.3	18		<b>510814</b>	2013 BJ <sub>42</sub>		8 29.3 329°44	3.6°/25.5	18	
7 30	22 56.70	-18 15.7	1.673	2.584	12.3	21.2	7 30	22 48.85	-13 27.0	1.605	2.525	12.3	19.7
8 9	22 50.30	-18 53.8	1.607	2.573	8.7	21.0	8 9	22 44.88	-15 17.0	1.544	2.515	8.4	19.4
8 19	22 41.79	-19 31.9	1.566	2.561	5.2	20.7	8 19	22 39.01	-17 15.6	1.507	2.506	4.7	19.2
8 29	22 32.03	-20 3.0	1.550	2.549	4.2	20.7	8 29	22 31.99	-19 12.7	1.496	2.497	4.0	19.1
9 8	22 22.18	-20 21.1	1.561	2.538	7.1	20.8	9 8	22 24.82	-20 57.7	1.512	2.489	7.3	19.3
9 18	22 13.39	-20 22.3	1.597	2.526	11.0	21.0	9 18	22 18.53	-22 22.5	1.554	2.481	11.3	19.5
9 28	22 6.65	-20 5.7	1.656	2.514	14.6	21.2	9 28	22 14.07	-23 22.3	1.617	2.474	14.9	19.7
10 8	22 2.59	-19 32.2	1.734	2.502	17.6	21.4	10 8	22 12.05	-23 56.0	1.700	2.467	18.0	19.9
<b>146917</b>	2002 CE <sub>214</sub>		8 29.3 235°13	0.6°/28.7	18		<b>189975</b>	2003 YN <sub>62</sub>		8 29.3 255°86	1.9°/27.5	18	

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>13996</b>	1993 <i>FH</i> <sub>20</sub>		8 29.3 311°60	1°2/30.2	18		<b>240664</b>	2005 <i>EJ</i> <sub>49</sub>		8 29.4 97°44	0°1/29.3	18	
7 30	22 53.23	- 4 57.6	1.299	2.205	15.6	18.5	7 30	22 56.12	- 8 13.8	2.030	2.919	11.5	20.3
8 9	22 48.35	- 5 13.1	1.225	2.186	11.3	18.2	8 9	22 49.35	- 8 34.1	1.985	2.941	8.0	20.1
8 19	22 41.01	- 5 44.6	1.171	2.168	6.3	17.9	8 19	22 41.10	- 9 1.3	1.965	2.962	4.1	19.9
8 29	22 32.06	- 6 27.7	1.141	2.151	1.4	17.5	8 29	22 32.12	- 9 31.2	1.973	2.983	0.1	19.6
9 8	22 22.79	- 7 15.4	1.136	2.133	5.2	17.8	9 8	22 23.30	- 9 59.4	2.009	3.003	3.9	20.0
9 18	22 14.55	- 8 0.2	1.154	2.117	10.6	18.0	9 18	22 15.46	-10 22.2	2.073	3.023	7.5	20.2
9 28	22 8.61	- 8 35.1	1.194	2.100	15.5	18.2	9 28	22 9.31	-10 36.8	2.163	3.042	10.8	20.5
10 8	22 5.72	- 8 55.4	1.252	2.085	19.7	18.5	10 8	22 5.24	-10 41.6	2.276	3.061	13.4	20.7
<b>279155</b>	2009 <i>SB</i> <sub>79</sub>		8 29.3 123°01	1°4/30.4	17		<b>67175</b>	2000 <i>BA</i> <sub>19</sub>		8 29.4 323°45	22°1/ 8.8	18	
7 30	22 56.58	- 4 18.3	1.659	2.546	13.8	20.5	7 30	23 2.67	+26 16.9	1.059	1.823	27.8	17.6
8 9	22 50.02	- 4 31.9	1.603	2.555	9.9	20.3	8 9	22 56.09	+29 37.1	1.003	1.817	25.9	17.4
8 19	22 41.57	- 4 57.9	1.570	2.563	5.5	20.1	8 19	22 45.64	+32 19.1	0.961	1.811	24.0	17.2
8 29	22 32.08	- 5 32.4	1.563	2.572	1.5	19.8	8 29	22 32.30	+34 7.7	0.933	1.805	22.7	17.1
9 8	22 22.64	- 6 9.9	1.584	2.580	4.3	20.0	9 8	22 17.93	+34 53.8	0.921	1.799	22.1	17.1
9 18	22 14.29	- 6 45.1	1.631	2.588	8.6	20.3	9 18	22 4.83	+34 37.6	0.924	1.795	22.5	17.1
9 28	22 7.92	- 7 13.1	1.702	2.595	12.4	20.6	9 28	21 55.17	+33 29.7	0.943	1.790	23.7	17.2
10 8	22 4.04	- 7 30.9	1.795	2.602	15.7	20.8	10 8	21 50.23	+31 48.2	0.974	1.787	25.5	17.3
<b>189537</b>	2000 <i>QX</i> <sub>108</sub>		8 29.3 20°01	4°4/26.4	18		<b>163962</b>	2003 <i>US</i> <sub>77</sub>		8 29.4 338°48	1°8/30.7	18	
7 30	22 52.74	-16 22.6	1.113	2.045	15.4	18.7	7 30	22 53.65	- 3 46.8	1.574	2.466	14.1	19.3
8 9	22 47.90	-17 16.6	1.077	2.052	10.7	18.5	8 9	22 48.20	- 3 49.8	1.508	2.461	10.3	19.1
8 19	22 40.61	-18 12.3	1.062	2.061	6.1	18.3	8 19	22 40.75	- 4 6.3	1.464	2.457	5.9	18.8
8 29	22 32.05	-19 0.1	1.069	2.072	4.7	18.2	8 29	22 32.11	- 4 32.9	1.445	2.453	2.0	18.6
9 8	22 23.70	-19 31.3	1.100	2.083	8.3	18.5	9 8	22 23.38	- 5 4.7	1.452	2.449	4.4	18.7
9 18	22 16.91	-19 41.2	1.152	2.096	12.8	18.8	9 18	22 15.64	- 5 36.0	1.485	2.445	8.9	19.0
9 28	22 12.72	-19 28.9	1.225	2.109	16.9	19.1	9 28	22 9.85	- 6 1.7	1.541	2.442	12.9	19.2
10 8	22 11.59	-18 56.1	1.315	2.124	20.2	19.3	10 8	22 6.61	- 6 17.9	1.618	2.440	16.4	19.5
<b>128259</b>	2003 <i>SQ</i> <sub>297</sub>		8 29.3 230°86	1°8/28.0	18		<b>281902</b>	2011 <i>CB</i> <sub>19</sub>		8 29.4 301°58	2°6/27.1	17	
7 30	23 1.04	-16 2.8	2.351	3.241	10.2	19.1	7 30	22 52.16	-11 24.4	1.376	2.293	14.0	20.0
8 9	22 52.71	-15 48.8	2.284	3.241	7.1	18.9	8 9	22 47.48	-12 41.4	1.310	2.281	9.7	19.7
8 19	22 42.84	-15 33.6	2.244	3.240	3.8	18.7	8 19	22 40.51	-14 9.6	1.268	2.269	5.1	19.4
8 29	22 32.15	-15 14.5	2.233	3.240	1.8	18.5	8 29	22 32.11	-15 39.8	1.250	2.256	2.8	19.2
9 8	22 21.52	-14 49.2	2.253	3.239	4.4	18.7	9 8	22 23.51	-17 1.5	1.257	2.245	6.9	19.5
9 18	22 11.83	-14 16.6	2.303	3.238	7.7	18.9	9 18	22 15.96	-18 6.1	1.289	2.233	11.7	19.7
9 28	22 3.79	-13 36.5	2.380	3.238	10.7	19.1	9 28	22 10.60	-18 48.3	1.343	2.222	16.0	19.9
10 8	21 57.86	-12 49.4	2.480	3.237	13.2	19.3	10 8	22 8.12	-19 6.5	1.414	2.211	19.6	20.2
<b>97653</b>	2000 <i>FH</i> <sub>13</sub>		8 29.3 50°13	4°6/24.9	18		<b>75902</b>	2000 <i>CN</i> <sub>49</sub>		8 29.4 221°77	2°0/31.3	18	
7 30	22 54.72	-23 27.5	2.253	3.158	9.9	18.8	7 30	22 52.82	- 1 27.6	2.118	2.990	11.9	19.1
8 9	22 48.40	-24 1.4	2.205	3.163	7.2	18.6	8 9	22 47.25	- 1 46.6	2.043	2.984	8.7	18.9
8 19	22 40.61	-24 30.5	2.183	3.168	5.1	18.5	8 19	22 40.14	- 2 18.5	1.991	2.978	5.2	18.7
8 29	22 32.08	-24 49.5	2.188	3.173	4.9	18.5	8 29	22 32.11	- 3 0.4	1.966	2.972	2.2	18.5
9 8	22 23.65	-24 54.9	2.221	3.178	6.8	18.7	9 8	22 23.96	- 3 47.8	1.969	2.965	3.7	18.6
9 18	22 16.13	-24 44.8	2.280	3.184	9.3	18.8	9 18	22 16.53	- 4 35.8	2.001	2.958	7.2	18.8
9 28	22 10.22	-24 19.5	2.363	3.189	11.8	19.0	9 28	22 10.55	- 5 19.5	2.058	2.951	10.6	19.0
10 8	22 6.33	-23 40.4	2.466	3.195	14.0	19.2	10 8	22 6.57	- 5 55.1	2.138	2.943	13.5	19.2
<b>450364</b>	2005 <i>AP</i> <sub>24</sub>		8 29.4 323°11	8°2/ 2.9	16		<b>478737</b>	2012 <i>UQ</i> <sub>72</sub>		8 29.4 314°75	0°0/29.3	18	
7 30	22 54.46	+ 8 54.2	1.705	2.540	16.0	20.1	7 30	22 52.33	- 7 13.9	1.490	2.396	13.9	21.6
8 9	22 49.16	+10 2.6	1.594	2.495	13.4	19.9	8 9	22 47.46	- 7 44.9	1.419	2.382	9.9	21.3
8 19	22 41.53	+10 53.9	1.503	2.451	10.6	19.6	8 19	22 40.45	- 8 28.4	1.369	2.368	5.2	21.0
8 29	22 32.14	+11 24.3	1.436	2.407	8.6	19.4	8 29	22 32.12	- 9 19.2	1.344	2.354	0.2	20.6
9 8	22 21.96	+11 32.4	1.393	2.363	8.6	19.3	9 8	22 23.58	-10 10.0	1.345	2.340	5.0	20.9
9 18	22 12.20	+11 19.9	1.375	2.320	11.0	19.3	9 18	22 15.99	-10 54.3	1.370	2.328	9.8	21.2
9 28	22 4.12	+10 52.0	1.379	2.277	14.4	19.4	9 28	22 10.42	-11 26.3	1.419	2.315	14.2	21.4
10 8	21 58.72	+10 16.1	1.404	2.235	18.0	19.5	10 8	22 7.52	-11 42.8	1.487	2.303	17.9	21.6
<b>232225</b>	2002 <i>JZ</i> <sub>121</sub>		8 29.4 181°38	3°4/25.6	18		<b>249811</b>	2001 <i>DX</i> <sub>38</sub>		8 29.4 250°78	1°0/30.5	18	
7 30	22 52.76	-15 32.1	2.005	2.913	10.8	20.1	7 30	22 50.33	- 3 32.2	2.381	3.259	10.5	20.2
8 9	22 47.27	-17 0.3	1.949	2.914	7.4	19.9	8 9	22 45.41	- 4 5.2	2.302	3.250	7.5	20.0
8 19	22 40.15	-18 31.9	1.918	2.915	4.3	19.7	8 19	22 39.14	- 4 49.0	2.248	3.240	4.3	19.8
8 29	22 32.08	-19 59.2	1.916	2.915	3.7	19.7	8 29	22 32.08	- 5 40.2	2.222	3.230	1.2	19.5
9 8	22 23.96	-21 15.1	1.942	2.914	6.4	19.9	9 8	22 24.91	- 6 34.4	2.224	3.221	3.2	19.7
9 18	22 16.67	-22 14.1	1.994	2.913	9.7	20.1	9 18	22 18.33	- 7 26.9	2.255	3.210	6.6	19.9
9 28	22 10.99	-22 53.5	2.071	2.912	12.7	20.3	9 28	22 13.00	- 8 13.3	2.312	3.200	9.8	20.1
10 8	22 7.44	-23 13.1	2.167	2.910	15.3	20.4	10 8	22 9.40	- 8 50.5	2.392	3.190	12.5	20.3
<b>304416</b>	2006 <i>TU</i> <sub>56</sub>		8 29.4 273°52	4°4/25.2	18		<b>391568</b>	2007 <i>TY</i> <sub>203</sub>		8 29.4 14°22	6°7/23.7	18	
7 30	22 54.38	-20 27.9	1.993	2.903	10.7	20.9	7 30	22 55.17	-24 56.5	1.634	2.550	12.3	20.5
8 9	22 48.45	-21 17.1	1.932	2.894	7.7	20.7	8 9	22 49.22	-26 0.8	1.591	2.551	9.3	20.4
8 19	22 40.78	-22 4.5	1.895	2.885	5.1	20.5	8 19	22 41.23	-26 58.2	1.571	2.553	7.0	20.2
8 29	22 32.10	-22 43.8	1.884	2.877	4.7	20.5	8 29	22 32.16	-27 40.2	1.576	2.555	7.1	20.2
9 8	22 23.38	-23 9.6	1.901	2.868	7.0	20.6	9 8	22 23.18	-28 0.9	1.607	2.557	9.4	20.4
9 18	22 15.54	-23 18.6	1.944	2.858	10.1	20.8	9 18	22 15.42	-27 57.7	1.661	2.560	12.5	20.6
9 28	22 9.43	-23 9.8	2.010	2.849	13.1	21.0	9 28	22 9.80	-27 31.4	1.736	2.563	15.4	20.8
10 8	22 5.56	-22 44.3	2.096	2.840	15.7	21.1	10 8	22 6.82	-26 45.2	1.829	2.566	17.9	21.0
<b>443910</b>	2002 <i>GC</i> <sub>102</sub>		8 29.4 143°00	3°8/ 3.7	18		<b>254353</b>	2004 <i>TU</i> <sub>40&lt;/</sub>					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>369693</b>	2012 BA <sub>122</sub>		8 29.4 82°46'	1.2°/30.2	18		<b>478898</b>	2012 WR <sub>21</sub>		8 29.4 353°42'	5.4°/25.5	18	
7 30	22 58.69	- 5 24.2	1.369	2.265	15.6	20.2	7 30	22 54.34	-20 5.7	1.377	2.300	13.6	19.9
8 9	22 51.71	- 5 28.8	1.322	2.279	11.1	20.0	8 9	22 48.92	-20 55.7	1.327	2.296	9.7	19.7
8 19	22 42.54	- 5 46.2	1.298	2.293	6.1	19.7	8 19	22 41.20	-21 43.5	1.299	2.293	6.3	19.5
8 29	22 32.21	- 6 12.0	1.298	2.307	1.4	19.5	8 29	22 32.21	-22 20.6	1.295	2.290	5.7	19.4
9 8	22 22.05	- 6 40.3	1.324	2.321	4.8	19.7	9 8	22 23.25	-22 39.8	1.315	2.288	8.6	19.6
9 18	22 13.30	- 7 5.5	1.376	2.335	9.6	20.1	9 18	22 15.58	-22 37.5	1.359	2.287	12.5	19.8
9 28	22 6.94	- 7 22.7	1.451	2.349	13.9	20.4	9 28	22 10.26	-22 13.2	1.424	2.287	16.2	20.0
10 8	22 3.47	- 7 29.3	1.546	2.362	17.3	20.6	10 8	22 7.84	-21 29.2	1.506	2.287	19.3	20.3
<b>445355</b>	2010 NO <sub>88</sub>		8 29.4 2°49'	1°1/28.6	18		<b>7831</b>	François-Xavier		8 29.4 143°41'	4°1/2.2	18	
7 30	22 55.10	-11 49.5	1.721	2.626	12.4	20.7	7 30	22 54.44	+ 4 34.3	1.802	2.654	14.5	17.9
8 9	22 49.02	-11 53.4	1.661	2.625	8.6	20.5	8 9	22 48.53	+ 4 13.5	1.739	2.663	11.1	17.7
8 19	22 41.10	-12 1.8	1.626	2.625	4.4	20.2	8 19	22 40.86	+ 3 32.7	1.698	2.671	7.5	17.5
8 29	22 32.16	-12 10.4	1.616	2.626	1.1	20.0	8 29	22 32.22	+ 2 34.6	1.683	2.679	4.5	17.4
9 8	22 23.24	-12 15.1	1.634	2.627	4.8	20.3	9 8	22 23.55	+ 1 24.7	1.694	2.686	4.8	17.4
9 18	22 15.35	-12 12.5	1.678	2.628	8.9	20.5	9 18	22 15.82	+ 0 10.0	1.733	2.692	8.0	17.6
9 28	22 9.36	-12 0.5	1.746	2.630	12.6	20.8	9 28	22 9.84	- 1 2.3	1.798	2.699	11.4	17.8
10 8	22 5.78	-11 38.3	1.834	2.632	15.7	21.0	10 8	22 6.15	- 2 6.2	1.885	2.704	14.6	18.1
<b>83477</b>	2001 SD <sub>82</sub>		8 29.4 276°72'	1°3/30.9	18		<b>282354</b>	2003 FZ <sub>107</sub>		8 29.4 49°84'	2°3/27.6	17	
7 30	22 48.75	- 2 13.6	2.580	3.454	9.9	20.0	7 30	22 53.69	-11 17.8	1.312	2.229	14.6	19.7
8 9	22 44.25	- 2 46.8	2.497	3.441	7.2	19.8	8 9	22 48.24	-12 25.2	1.280	2.250	10.0	19.5
8 19	22 38.53	- 3 31.0	2.439	3.429	4.2	19.6	8 19	22 40.73	-13 39.7	1.270	2.271	5.1	19.3
8 29	22 32.07	- 4 23.1	2.409	3.416	1.5	19.4	8 29	22 32.21	-14 52.2	1.285	2.292	2.4	19.2
9 8	22 25.51	- 5 19.2	2.408	3.404	3.0	19.5	9 8	22 23.94	-15 53.9	1.325	2.314	6.3	19.5
9 18	22 19.47	- 6 14.8	2.435	3.391	6.1	19.7	9 18	22 17.06	-16 38.7	1.390	2.336	10.8	19.8
9 28	22 14.54	- 7 5.7	2.488	3.379	9.1	19.8	9 28	22 12.44	-17 3.6	1.476	2.358	14.6	20.1
10 8	22 11.18	- 7 48.4	2.566	3.366	11.7	20.0	10 8	22 10.53	-17 8.5	1.582	2.381	17.8	20.4
<b>337331</b>	2001 DY <sub>72</sub>		8 29.4 227°64'	0°7/30.2	18		<b>433652</b>	2014 BX		8 29.4 204°42'	4°5/25.6	17	
7 30	22 51.75	- 3 17.6	2.196	3.075	11.2	21.3	7 30	22 56.15	-18 39.6	1.704	2.616	12.1	20.9
8 9	22 46.53	- 4 17.6	2.115	3.064	8.0	21.1	8 9	22 49.89	-19 42.7	1.648	2.614	8.6	20.7
8 19	22 40.98	- 5 31.0	2.060	3.053	4.4	20.9	8 19	22 41.64	-20 45.7	1.618	2.611	5.4	20.5
8 29	22 32.12	- 6 53.1	2.032	3.041	0.8	20.6	8 29	22 32.25	-21 40.7	1.613	2.609	4.7	20.4
9 8	22 24.30	- 8 17.8	2.034	3.029	3.6	20.8	9 8	22 22.84	-22 21.0	1.635	2.606	7.5	20.6
9 18	22 17.11	- 9 38.7	2.064	3.016	7.4	21.0	9 18	22 14.51	-22 42.2	1.683	2.603	11.1	20.8
9 28	22 11.30	-10 50.2	2.120	3.003	10.8	21.2	9 28	22 8.19	-22 43.0	1.753	2.599	14.4	21.0
10 8	22 7.40	-11 48.4	2.200	2.989	13.7	21.4	10 8	22 4.43	-22 24.7	1.841	2.596	17.2	21.2
<b>112046</b>	2002 JR <sub>7</sub>		8 29.4 174°85'	5°0/23.8	18		<b>339207</b>	2004 TP <sub>265</sub>		8 29.4 231°75'	3°4/26.5	18	
7 30	22 52.54	-23 28.2	2.280	3.189	9.7	19.6	7 30	22 55.91	-16 43.6	1.778	2.687	11.9	21.4
8 9	22 46.98	-24 31.0	2.231	3.189	7.1	19.5	8 9	22 49.65	-17 28.6	1.718	2.683	8.3	21.2
8 19	22 39.96	-25 29.6	2.207	3.189	5.2	19.4	8 19	22 41.49	-18 14.9	1.683	2.679	4.8	21.0
8 29	22 32.13	-26 18.3	2.210	3.189	5.3	19.4	8 29	22 32.25	-18 55.9	1.674	2.675	3.6	20.9
9 8	22 24.31	-26 52.1	2.240	3.190	7.2	19.5	9 8	22 22.97	-19 25.7	1.692	2.670	6.5	21.1
9 18	22 17.29	-27 8.3	2.296	3.190	9.7	19.7	9 18	22 14.69	-19 40.4	1.736	2.666	10.2	21.3
9 28	22 11.79	-27 6.3	2.375	3.190	12.2	19.8	9 28	22 8.33	-19 38.1	1.803	2.661	13.6	21.5
10 8	22 8.25	-26 47.4	2.474	3.190	14.3	20.0	10 8	22 4.42	-19 19.6	1.890	2.656	16.5	21.7
<b>323289</b>	2003 TU <sub>18</sub>		8 29.4 357°82'	2°5/30.9	17		<b>96812</b>	1999 RZ <sub>161</sub>		8 29.4 24°66'	5°7/2.9	18	
7 30	22 50.00	- 3 10.3	0.941	1.862	18.6	19.9	7 30	22 51.21	+ 5 9.9	1.257	2.133	18.0	18.6
8 9	22 46.43	- 3 13.4	0.890	1.857	13.6	19.6	8 9	22 46.72	+ 5 17.4	1.209	2.143	14.0	18.4
8 19	22 40.11	- 3 38.4	0.856	1.853	7.9	19.3	8 19	22 40.06	+ 4 58.7	1.179	2.154	9.8	18.2
8 29	22 32.14	- 4 20.3	0.843	1.851	2.8	19.0	8 29	22 32.20	+ 4 16.0	1.172	2.166	6.3	18.0
9 8	22 24.08	- 5 10.6	0.851	1.850	5.8	19.1	9 8	22 24.40	+ 3 15.7	1.188	2.179	6.4	18.1
9 18	22 17.49	- 5 59.6	0.880	1.852	11.5	19.5	9 18	22 17.85	+ 2 6.5	1.228	2.193	9.7	18.3
9 28	22 13.66	- 6 38.4	0.929	1.854	16.8	19.8	9 28	22 13.53	+ 0 58.0	1.290	2.208	13.6	18.6
10 8	22 13.26	- 7 1.2	0.994	1.859	21.2	20.1	10 8	22 11.98	- 0 1.9	1.372	2.224	17.2	18.8
<b>271733</b>	2004 RN <sub>288</sub>		8 29.4 239°81'	8°5/17.8	18		<b>428648</b>	2008 GJ <sub>23</sub>		8 29.4 136°34'	0°4/29.8	17	
7 30	22 59.49	-41 50.7	2.861	3.713	9.7	20.2	7 30	22 53.53	- 4 32.5	1.575	2.469	14.0	21.6
8 9	22 51.81	-42 47.0	2.814	3.699	8.8	20.1	8 9	22 48.09	- 5 29.8	1.517	2.474	9.9	21.4
8 19	22 42.46	-43 28.8	2.790	3.685	8.5	20.0	8 19	22 40.71	- 6 42.2	1.482	2.478	5.3	21.2
8 29	22 32.22	-43 50.4	2.792	3.670	9.0	20.1	8 29	22 32.23	- 8 3.0	1.473	2.483	0.6	20.8
9 8	22 22.02	-43 48.8	2.819	3.654	10.1	20.1	9 8	22 23.73	- 9 24.1	1.491	2.487	4.5	21.1
9 18	22 12.75	-43 23.6	2.869	3.639	11.5	20.2	9 18	22 16.26	-10 37.6	1.535	2.490	9.1	21.4
9 28	22 5.20	-42 36.6	2.939	3.622	12.9	20.3	9 28	22 10.74	-11 37.2	1.603	2.494	13.2	21.7
10 8	21 59.86	-41 31.5	3.026	3.606	14.2	20.4	10 8	22 7.72	-12 19.6	1.692	2.497	16.5	21.9
<b>176172</b>	2001 KK <sub>52</sub>		8 29.4 85°81'	1°6/28.2	18		<b>515996</b>	2015 RN <sub>227</sub>		8 29.4 126°45'	2°4/26.6	18	
7 30	22 57.50	-11 1.1	1.451	2.358	14.1	19.8	7 30	22 51.49	-15 43.6	2.491	3.394	9.1	21.4
8 9	22 50.78	-11 41.3	1.410	2.376	9.7	19.6	8 9	22 46.12	-16 30.7	2.438	3.401	6.3	21.3
8 19	22 42.01	-12 28.4	1.393	2.393	5.0	19.3	8 19	22 39.49	-17 19.1	2.411	3.407	3.5	21.1
8 29	22 32.21	-13 15.2	1.401	2.410	1.6	19.2	8 29	22 32.19	-18 4.3	2.412	3.414	2.6	21.1
9 8	22 22.63	-13 54.8	1.436	2.427	5.6	19.5	9 8	22 24.91	-18 41.7	2.442	3.420	4.8	21.2
9 18	22 14.42	-14 22.2	1.496	2.444	10.0	19.8	9 18	22 18.33	-19 8.5	2.499	3.426	7.6	21.4
9 28	22 8.47	-14 34.6	1.579	2.460	13.9	20.0	9 28	22 13.05	-19 22.6	2.582	3.431	10.2	21.6
10 8	22 5.24	-14 31.5	1.682	2.476	17.1	20.3	10 8	22 9.48	-19 23.7	2.686	3.437	12.5	21.8
<b>367751</b>	2010 VS <sub>137</sub>		8 29.4 255°92'	5°1/22.5	18		<b>277052</b>	2005 EE <sub>33</sub>		8 29.4 149°17'	16°1/14.4	17	
7 30	22 51.22	-23 51.6											

EPHEMERIDES

8 29.4

8 29.4

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>276762</b>	2004 <i>GP</i> <sub>40</sub>		8 29.4 219°65	1°9/27.7	18		<b>314568</b>	2005 <i>YA</i> <sub>182</sub>		8 29.4 185°78	5°0/22.4	18	
7 30	22 56.01	-12 4.1	1.826	2.728	12.0	21.5	7 30	22 51.54	-25 6.7	2.667	3.571	8.6	20.4
8 9	22 49.75	-12 53.8	1.757	2.720	8.3	21.3	8 9	22 46.23	-26 29.5	2.618	3.571	6.5	20.2
8 19	22 41.59	-13 49.8	1.713	2.712	4.3	21.0	8 19	22 39.61	-27 48.0	2.596	3.570	5.1	20.2
8 29	22 32.30	-14 46.0	1.696	2.704	2.0	20.8	8 29	22 32.25	-28 56.4	2.602	3.570	5.4	20.2
9 8	22 22.88	-15 35.6	1.707	2.694	5.4	21.1	9 8	22 24.84	-29 49.9	2.636	3.568	7.1	20.3
9 18	22 14.36	-16 13.5	1.745	2.685	9.5	21.3	9 18	22 18.08	-30 25.6	2.696	3.567	9.3	20.4
9 28	22 7.65	-16 36.3	1.807	2.674	13.1	21.5	9 28	22 12.60	-30 42.7	2.779	3.565	11.3	20.6
10 8	22 3.35	-16 43.0	1.889	2.663	16.2	21.7	10 8	22 8.86	-30 42.1	2.882	3.563	13.1	20.7
<b>106787</b>	2000 <i>XO</i> <sub>22</sub>		8 29.4 249°28	0°1/29.3	18		<b>93581</b>	2000 <i>UD</i> <sub>48</sub>		8 29.4 332°79	1°5/30.5	18	
7 30	22 57.50	- 8 4.1	1.517	2.417	14.1	20.2	7 30	22 48.60	- 3 30.2	1.193	2.105	16.2	19.1
8 9	22 51.10	- 8 24.0	1.447	2.407	10.0	20.0	8 9	22 45.29	- 3 57.6	1.119	2.083	11.8	18.8
8 19	22 42.41	- 8 54.3	1.399	2.397	5.3	19.7	8 19	22 39.56	- 4 45.5	1.066	2.063	6.8	18.4
8 29	22 32.33	- 9 29.9	1.376	2.386	0.2	19.2	8 29	22 32.25	- 5 49.2	1.034	2.043	1.8	18.0
9 8	22 22.06	-10 4.7	1.381	2.376	5.0	19.6	9 8	22 24.60	- 7 0.1	1.026	2.025	5.2	18.2
9 18	22 12.84	-10 32.9	1.410	2.364	9.9	19.9	9 18	22 17.97	- 8 8.5	1.041	2.008	10.8	18.5
9 28	22 5.78	-10 50.1	1.464	2.353	14.3	20.1	9 28	22 13.61	- 9 5.3	1.076	1.993	15.9	18.7
10 8	22 1.55	-10 53.7	1.537	2.341	18.0	20.3	10 8	22 12.32	- 9 44.2	1.130	1.979	20.3	19.0
<b>509704</b>	2008 <i>SC</i> <sub>55</sub>		8 29.4 324°51	7°9/24.7	18		<b>45169</b>	1999 <i>XQ</i> <sub>132</sub>		8 29.4 212°73	6°2/ 2.8	18	
7 30	23 0.76	-27 2.1	1.389	2.303	14.3	20.8	7 30	22 58.03	+ 6 20.7	1.698	2.540	15.7	18.2
8 9	22 53.60	-27 34.7	1.331	2.289	11.0	20.6	8 9	22 51.30	+ 6 57.8	1.624	2.536	12.5	18.0
8 19	22 43.76	-27 56.4	1.295	2.276	8.4	20.4	8 19	22 42.48	+ 7 15.1	1.572	2.533	9.1	17.8
8 29	22 32.38	-27 58.1	1.283	2.263	8.2	20.4	8 29	22 32.37	+ 7 12.1	1.544	2.528	6.5	17.7
9 8	22 21.01	-27 33.9	1.294	2.251	10.7	20.5	9 8	22 22.05	+ 6 51.1	1.543	2.524	6.6	17.7
9 18	22 11.15	-26 42.8	1.329	2.239	14.2	20.7	9 18	22 12.67	+ 6 16.7	1.567	2.519	9.3	17.8
9 28	22 4.01	-25 27.7	1.385	2.229	17.7	20.9	9 28	22 5.23	+ 5 35.6	1.617	2.514	12.7	18.0
10 8	22 0.20	-23 54.0	1.458	2.219	20.8	21.1	10 8	22 0.41	+ 4 54.7	1.687	2.509	15.9	18.2
<b>48367</b>	4127 <i>T</i> <sub>-2</sub>		8 29.4 275°47	0°6/29.9	18		<b>337171</b>	1999 <i>VP</i> <sub>41</sub>		8 29.4 350°05	3°3/ 1.4	18	
7 30	22 52.17	- 3 41.1	1.496	2.393	14.5	19.1	7 30	22 49.68	+ 2 1.4	1.453	2.335	15.7	20.4
8 9	22 47.37	- 4 42.0	1.425	2.383	10.4	18.8	8 9	22 45.60	+ 1 26.7	1.387	2.331	11.8	20.2
8 19	22 40.47	- 6 1.2	1.376	2.372	5.7	18.5	8 19	22 39.52	+ 0 29.1	1.342	2.327	7.5	19.9
8 29	22 32.27	- 7 32.5	1.352	2.362	0.8	18.2	8 29	22 32.25	- 0 47.2	1.321	2.324	3.7	19.7
9 8	22 23.85	- 9 6.7	1.355	2.351	4.8	18.4	9 8	22 24.87	- 2 14.6	1.325	2.322	4.7	19.7
9 18	22 16.37	-10 34.5	1.383	2.341	9.7	18.7	9 18	22 18.45	- 3 43.9	1.355	2.320	9.0	20.0
9 28	22 10.87	-11 47.9	1.435	2.330	14.1	18.9	9 28	22 13.98	- 5 6.0	1.407	2.319	13.2	20.2
10 8	22 8.01	-12 42.2	1.507	2.320	17.9	19.1	10 8	22 12.05	- 6 14.1	1.481	2.319	16.9	20.5
<b>293538</b>	2007 <i>HS</i> <sub>3</sub>		8 29.4 202°31	3°6/ 3.7	18		<b>173635</b>	2001 <i>FQ</i> <sub>106</sub>		8 29.4 141°78	2°2/31.3	17	
7 30	22 49.05	+ 8 17.6	2.778	3.596	10.9	20.9	7 30	22 56.46	- 1 24.4	1.689	2.566	14.1	20.9
8 9	22 44.41	+ 7 27.5	2.692	3.593	8.6	20.7	8 9	22 50.03	- 1 42.2	1.630	2.574	10.3	20.7
8 19	22 38.63	+ 6 20.2	2.631	3.589	6.1	20.6	8 19	22 41.71	- 2 15.4	1.594	2.582	6.2	20.5
8 29	22 32.20	+ 4 58.0	2.598	3.585	4.0	20.4	8 29	22 32.34	- 3 0.3	1.584	2.590	2.5	20.2
9 8	22 25.70	+ 3 25.2	2.594	3.581	3.8	20.4	9 8	22 22.98	- 3 51.0	1.601	2.597	4.3	20.4
9 18	22 19.70	+ 1 47.1	2.620	3.576	5.8	20.5	9 18	22 14.66	- 4 41.5	1.645	2.603	8.4	20.6
9 28	22 14.77	+ 0 9.6	2.675	3.571	8.3	20.7	9 28	22 8.26	- 5 26.0	1.713	2.609	12.2	20.9
10 8	22 11.31	- 1 21.9	2.755	3.566	10.7	20.8	10 8	22 4.32	- 6 0.3	1.804	2.615	15.4	21.1
<b>220879</b>	2004 <i>XJ</i> <sub>64</sub>		8 29.4 287°29	7°7/21.1	18		<b>232801</b>	2004 <i>RY</i> <sub>198</sub>		8 29.4 20°67	1°6/30.3	18	
7 30	22 56.75	-32 45.8	2.256	3.148	10.5	20.0	7 30	22 57.59	- 6 15.0	1.312	2.214	15.7	19.1
8 9	22 50.17	-33 42.5	2.195	3.128	8.7	19.9	8 9	22 51.15	- 5 49.9	1.260	2.219	11.3	18.8
8 19	22 41.77	-34 28.5	2.158	3.109	7.7	19.8	8 19	22 42.40	- 5 36.0	1.229	2.225	6.3	18.6
8 29	22 32.33	-34 57.1	2.147	3.089	8.1	19.8	8 29	22 32.36	- 5 30.5	1.223	2.231	1.8	18.3
9 8	22 22.81	-35 3.6	2.162	3.070	9.7	19.8	9 8	22 22.41	- 5 29.2	1.242	2.239	4.9	18.5
9 18	22 14.21	-34 46.6	2.201	3.050	11.9	20.0	9 18	22 13.83	- 5 28.0	1.285	2.247	9.8	18.8
9 28	22 7.38	-34 6.9	2.261	3.030	14.1	20.1	9 28	22 7.67	- 5 22.7	1.351	2.256	14.2	19.1
10 8	22 2.88	-33 7.9	2.340	3.010	16.0	20.2	10 8	22 4.49	- 5 10.5	1.437	2.265	17.8	19.4
<b>212786</b>	2007 <i>TC</i> <sub>217</sub>		8 29.4 345°22	0°8/28.7	18		<b>200489</b>	2000 <i>YW</i> <sub>52</sub>		8 29.4 106°10	5°3/23.8	18	
7 30	22 53.90	- 9 48.8	1.789	2.690	12.2	20.9	7 30	22 54.99	-21 55.0	1.963	2.873	10.9	19.4
8 9	22 48.22	-10 16.7	1.727	2.689	8.5	20.7	8 9	22 48.80	-23 25.7	1.932	2.892	7.9	19.3
8 19	22 40.75	-10 51.8	1.689	2.688	4.4	20.5	8 19	22 40.97	-24 52.2	1.926	2.911	5.6	19.2
8 29	22 32.29	-11 29.2	1.678	2.688	0.8	20.2	8 29	22 32.31	-26 6.5	1.948	2.929	5.7	19.2
9 8	22 23.79	-12 3.5	1.694	2.687	4.6	20.5	9 8	22 23.79	-27 2.4	1.996	2.947	7.9	19.4
9 18	22 16.23	-12 30.1	1.737	2.687	8.7	20.7	9 18	22 16.30	-27 37.0	2.071	2.964	10.6	19.6
9 28	22 10.44	-12 45.4	1.804	2.686	12.4	21.0	9 28	22 10.59	-27 49.7	2.168	2.981	13.2	19.8
10 8	22 6.96	-12 48.0	1.891	2.686	15.4	21.2	10 8	22 7.11	-27 42.5	2.284	2.998	15.3	20.0
<b>151650</b>	2002 <i>XN</i> <sub>81</sub>		8 29.4 295°07	3°5/26.8	18		<b>400710</b>	2009 <i>RE</i> <sub>71</sub>		8 29.4 292°17	0°7/28.7	18	
7 30	22 55.55	-15 24.9	1.441	2.358	13.6	19.6	7 30	22 50.68	- 9 17.8	2.215	3.112	10.4	21.3
8 9	22 49.86	-16 13.7	1.375	2.344	9.5	19.4	8 9	22 45.83	- 9 56.7	2.135	3.096	7.2	21.0
8 19	22 41.82	-17 6.8	1.331	2.330	5.3	19.1	8 19	22 39.50	-10 43.1	2.081	3.080	3.7	20.8
8 29	22 32.33	-17 56.1	1.313	2.316	3.7	19.0	8 29	22 32.27	-11 32.6	2.054	3.064	0.7	20.5
9 8	22 22.66	-18 33.7	1.319	2.303	7.2	19.1	9 8	22 24.89	-12 20.2	2.056	3.048	4.0	20.8
9 18	22 14.09	-18 54.1	1.351	2.289	11.7	19.4	9 18	22 18.14	-13 1.4	2.084	3.032	7.6	21.0
9 28	22 7.77	-18 54.4	1.403	2.276	15.8	19.6	9 28	22 12.75	-13 32.3	2.139	3.016	10.9	21.1
10 8	22 4.38	-18 35.1	1.474	2.263	19.3	19.8	10 8	22 9.23	-13 50.8	2.214	3.000	13.8	21.3
<b>236575</b>	2006 <i>HS</i> <												

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>366273</b>	2013 <i>AN</i> <sub>41</sub>		8 29.4 330°49	5°0/ 2.1 18			<b>36085</b>	1999 <i>RT</i> <sub>85</sub>		8 29.4 102°52	0°2/29.6 18		
7 30	22 55.23	+ 3 35.5	1.759	2.616	14.6	20.2	7 30	22 49.95	- 5 19.6	2.160	3.049	11.0	18.6
8 9	22 49.27	+ 4 10.5	1.686	2.611	11.4	20.0	8 9	22 45.26	- 6 14.4	2.095	3.050	7.7	18.4
8 19	22 41.39	+ 4 28.7	1.635	2.606	8.0	19.8	8 19	22 39.18	- 7 19.9	2.055	3.051	4.1	18.2
8 29	22 32.36	+ 4 30.3	1.610	2.601	5.3	19.6	8 29	22 32.30	- 8 31.4	2.042	3.052	0.3	17.8
9 8	22 23.17	+ 4 17.5	1.610	2.597	5.7	19.7	9 8	22 25.37	- 9 42.9	2.058	3.053	3.6	18.1
9 18	22 14.84	+ 3 54.7	1.637	2.593	8.6	19.8	9 18	22 19.14	-10 48.9	2.102	3.054	7.2	18.4
9 28	22 8.32	+ 3 27.3	1.688	2.589	12.0	20.0	9 28	22 14.28	-11 44.7	2.171	3.055	10.5	18.6
10 8	22 4.20	+ 3 0.9	1.761	2.586	15.2	20.2	10 8	22 11.26	-12 27.3	2.263	3.056	13.3	18.8
<b>348393</b>	2005 <i>GB</i> <sub>128</sub>		8 29.4 68°34	8°0/22.7 17			<b>1877</b>	Marsden		8 29.4 22°56	2°7/27.1 18		
7 30	22 58.17	-29 55.5	1.753	2.657	12.3	20.1	7 30	22 54.50	-18 5.4	2.298	3.202	9.8	15.9
8 9	22 51.15	-30 59.3	1.727	2.673	9.7	20.0	8 9	22 48.24	-18 11.2	2.249	3.211	6.8	15.7
8 19	22 42.22	-31 50.5	1.724	2.689	8.1	19.9	8 19	22 40.64	-18 15.5	2.225	3.220	3.9	15.5
8 29	22 32.38	-32 21.5	1.746	2.705	8.4	20.0	8 29	22 32.36	-18 14.8	2.229	3.231	2.8	15.5
9 8	22 22.84	-32 28.1	1.793	2.721	10.2	20.1	9 8	22 24.20	-18 6.2	2.261	3.241	5.0	15.6
9 18	22 14.67	-32 9.7	1.864	2.737	12.7	20.3	9 18	22 16.92	-17 48.1	2.321	3.252	7.9	15.8
9 28	22 8.69	-31 28.5	1.956	2.753	15.0	20.5	9 28	22 11.14	-17 20.0	2.406	3.264	10.6	16.0
10 8	22 5.33	-30 28.9	2.066	2.769	17.1	20.7	10 8	22 7.28	-16 42.4	2.513	3.275	12.9	16.2
<b>205198</b>	2000 <i>ES</i> <sub>98</sub>		8 29.4 72°90	0°8/30.2 16			<b>342181</b>	2008 <i>SW</i> <sub>185</sub>		8 29.4 213°00	2°4/31.7 18		
7 30	22 52.94	- 4 16.2	1.797	2.686	12.8	20.7	7 30	22 54.93	- 0 25.9	2.224	3.086	11.7	21.8
8 9	22 47.40	- 4 55.1	1.751	2.704	9.1	20.5	8 9	22 48.76	- 0 35.9	2.144	3.079	8.7	21.6
8 19	22 40.26	- 5 45.8	1.728	2.723	5.0	20.3	8 19	22 41.04	- 0 58.6	2.088	3.071	5.4	21.4
8 29	22 32.31	- 6 43.6	1.732	2.741	1.0	20.0	8 29	22 32.38	- 1 31.8	2.059	3.063	2.6	21.2
9 8	22 24.47	- 7 42.1	1.763	2.760	3.9	20.3	9 8	22 23.58	- 2 11.5	2.059	3.054	3.7	21.2
9 18	22 17.60	- 8 35.6	1.821	2.778	7.8	20.6	9 18	22 15.45	- 2 53.4	2.088	3.044	7.0	21.4
9 28	22 12.46	- 9 19.5	1.904	2.796	11.4	20.8	9 28	22 8.76	- 3 32.8	2.143	3.033	10.3	21.6
10 8	22 9.48	- 9 50.7	2.009	2.814	14.3	21.1	10 8	22 4.04	- 4 5.9	2.221	3.022	13.2	21.8
<b>62898</b>	2000 <i>UA</i> <sub>104</sub>		8 29.4 212°12	2°7/31.4 18			<b>162878</b>	2001 <i>FU</i> <sub>33</sub>		8 29.4 147°67	2°1/31.7 18		
7 30	22 56.59	- 1 14.3	1.512	2.393	15.2	19.2	7 30	22 51.85	+ 0 26.7	2.015	2.883	12.5	19.8
8 9	22 50.41	- 1 19.8	1.445	2.391	11.3	19.0	8 9	22 46.65	- 0 19.5	1.950	2.889	9.2	19.6
8 19	22 42.05	- 1 42.1	1.400	2.388	6.8	18.7	8 19	22 39.92	- 1 21.5	1.908	2.894	5.6	19.4
8 29	22 32.39	- 2 18.2	1.380	2.385	3.0	18.5	8 29	22 32.34	- 2 35.2	1.894	2.899	2.4	19.2
9 8	22 22.60	- 3 2.4	1.386	2.382	4.8	18.6	9 8	22 24.72	- 3 54.7	1.907	2.904	3.7	19.3
9 18	22 13.87	- 3 48.3	1.418	2.379	9.2	18.9	9 18	22 17.88	- 5 13.3	1.949	2.908	7.2	19.5
9 28	22 7.25	- 4 29.5	1.474	2.375	13.4	19.1	9 28	22 12.55	- 6 24.9	2.017	2.912	10.7	19.7
10 8	22 3.38	- 5 0.8	1.550	2.371	17.1	19.3	10 8	22 9.21	- 7 25.0	2.107	2.915	13.6	19.9
<b>5870</b>	Baltimore		8 29.4 316°71	0°8/28.5 18			<b>428428</b>	2007 <i>TD</i> <sub>206</sub>		8 29.4 233°19	0°5/29.8 17		
7 30	22 49.68	- 2 45.2	1.545	2.441	14.1	17.0	7 30	22 55.57	- 4 56.4	1.652	2.542	13.7	21.6
8 9	22 45.98	- 5 5.9	1.434	2.394	10.1	16.6	8 9	22 49.68	- 5 43.1	1.576	2.531	9.8	21.3
8 19	22 40.01	- 8 0.1	1.347	2.346	5.3	16.2	8 19	22 41.71	- 6 44.6	1.523	2.519	5.3	21.1
8 29	22 32.32	-11 19.6	1.289	2.299	0.9	15.8	8 29	22 32.43	- 7 55.4	1.497	2.506	0.6	20.7
9 8	22 23.87	-14 49.6	1.260	2.251	6.2	16.0	9 8	22 22.92	- 9 8.2	1.498	2.493	4.6	21.0
9 18	22 15.87	-18 12.3	1.260	2.204	11.9	16.2	9 18	22 14.30	-10 15.3	1.525	2.480	9.3	21.2
9 28	22 9.61	-21 11.7	1.284	2.156	17.1	16.4	9 28	22 7.59	-11 10.4	1.577	2.465	13.5	21.4
10 8	22 6.11	-23 38.0	1.329	2.110	21.5	16.6	10 8	22 3.45	-11 49.8	1.650	2.450	17.1	21.6
<b>173884</b>	2001 <i>UA</i> <sub>56</sub>		8 29.4 342°66	0°5/28.9 18			<b>261421</b>	2005 <i>UK</i> <sub>499</sub>		8 29.4 293°76	0°1/29.6 18		
7 30	22 52.45	- 8 48.0	1.739	2.641	12.4	20.2	7 30	22 49.60	- 5 8.6	2.040	2.932	11.4	20.7
8 9	22 47.28	- 9 16.9	1.675	2.638	8.7	19.9	8 9	22 45.17	- 6 8.8	1.966	2.922	8.1	20.5
8 19	22 40.32	- 9 54.5	1.635	2.634	4.5	19.7	8 19	22 39.22	- 7 21.3	1.915	2.912	4.3	20.2
8 29	22 32.32	-10 35.8	1.621	2.631	0.5	19.3	8 29	22 32.34	- 8 41.3	1.892	2.902	0.3	19.9
9 8	22 24.27	-11 15.2	1.634	2.628	4.5	19.7	9 8	22 25.34	-10 2.0	1.897	2.892	3.8	20.2
9 18	22 17.12	-11 47.3	1.673	2.625	8.7	19.9	9 18	22 19.00	-11 17.2	1.930	2.883	7.8	20.4
9 28	22 11.73	-12 8.5	1.735	2.623	12.5	20.1	9 28	22 14.10	-12 21.2	1.988	2.873	11.3	20.6
10 8	22 8.66	-12 16.4	1.819	2.621	15.7	20.3	10 8	22 11.14	-13 10.6	2.067	2.864	14.3	20.8
<b>323954</b>	2005 <i>UA</i> <sub>48</sub>		8 29.4 250°90	3°5/25.2 18			<b>77565</b>	2001 <i>KG</i> <sub>4</sub>		8 29.4 164°46	3°6/ 2.3 18		
7 30	22 53.23	-19 49.2	2.630	3.532	8.8	22.1	7 30	22 52.73	+ 4 20.6	2.207	3.052	12.4	20.3
8 9	22 47.47	-20 41.2	2.554	3.513	6.3	21.9	8 9	22 47.19	+ 4 5.4	2.136	3.056	9.6	20.1
8 19	22 40.32	-21 32.6	2.504	3.494	4.1	21.8	8 19	22 40.20	+ 3 33.8	2.089	3.059	6.5	19.9
8 29	22 32.33	-22 18.5	2.483	3.474	3.7	21.7	8 29	22 32.39	+ 2 48.0	2.068	3.063	4.0	19.8
9 8	22 24.20	-22 54.4	2.490	3.454	5.7	21.8	9 8	22 24.52	+ 1 52.0	2.075	3.065	4.2	19.8
9 18	22 16.66	-23 17.2	2.525	3.433	8.4	22.0	9 18	22 17.36	+ 0 50.9	2.110	3.068	6.9	20.0
9 28	22 10.37	-23 25.2	2.585	3.412	10.9	22.1	9 28	22 11.61	- 0 9.5	2.172	3.069	9.9	20.2
10 8	22 5.85	-23 18.4	2.666	3.390	13.1	22.2	10 8	22 7.75	- 1 4.3	2.257	3.071	12.6	20.4
<b>90910</b>	1997 <i>GF</i> <sub>6</sub>		8 29.4 35°38	10°0/12.2 18			<b>396362</b>	2014 <i>DF</i> <sub>89</sub>		8 29.4 284°96	2°2/31.7 18		
7 30	22 48.36	+24 14.4	1.834	2.573	18.4	18.9	7 30	22 50.19	+ 1 26.3	1.768	2.642	13.7	20.3
8 9	22 44.36	+24 0.4	1.774	2.589	16.2	18.8	8 9	22 45.85	+ 0 19.9	1.682	2.624	10.3	20.1
8 19	22 38.75	+23 12.2	1.730	2.606	13.7	18.7	8 19	22 39.70	- 1 8.6	1.619	2.606	6.3	19.8
8 29	22 32.27	+21 49.4	1.708	2.624	11.5	18.6	8 29	22 32.37	- 2 54.6	1.581	2.587	2.5	19.5
9 8	22 25.83	+19 56.2	1.708	2.642	10.2	18.5	9 8	22 24.79	- 4 50.2	1.572	2.569	4.1	19.6
9 18	22 20.30	+17 40.5	1.733	2.661	10.3	18.6	9 18	22 17.90	- 6 46.0	1.590	2.551	8.4	19.8
9 28	22 16.45	+15 13.3	1.783	2.681	11.7	18.7	9 28	22 12.64	- 8 32.6	1.633	2.533	12.5	20.0
10 8	22 14.73	+12 46.1	1.858	2.700	13.8	18.9	10 8	22 9.65	-10 3.2	1.699	2.514	16.1	20.2
<b>435679</b>	2008 <i>TB</i> <sub>60</sub>		8 29.4 276°62	4°7/ 3.1 1									

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>134231</b>	2005 YC <sub>45</sub>		8 29.4 286°10	3°3/25.6	18		<b>69504</b>	1997 CG <sub>20</sub>		8 29.4 173°71	0°8/28.7	18	
7 30	22 50.60	-16 35.9	2.172	3.083	10.0	19.9	7 30	22 57.27	-10 48.5	2.035	2.928	11.3	19.7
8 9	22 45.81	-17 48.0	2.109	3.075	6.9	19.7	8 9	22 50.43	-11 4.3	1.972	2.930	7.9	19.5
8 19	22 39.53	-19 2.5	2.072	3.068	4.1	19.5	8 19	22 41.94	-11 25.0	1.934	2.932	4.1	19.2
8 29	22 32.38	-20 13.0	2.063	3.060	3.6	19.4	8 29	22 32.53	-11 46.7	1.924	2.933	0.8	19.0
9 8	22 25.13	-21 13.4	2.081	3.053	6.0	19.6	9 8	22 23.11	-12 4.9	1.942	2.934	4.3	19.3
9 18	22 18.59	-21 59.2	2.125	3.046	9.1	19.8	9 18	22 14.60	-12 16.4	1.989	2.935	8.1	19.5
9 28	22 13.48	-22 27.8	2.194	3.038	12.0	19.9	9 28	22 7.76	-12 18.8	2.061	2.935	11.4	19.7
10 8	22 10.31	-22 38.6	2.283	3.031	14.5	20.1	10 8	22 3.12	-12 10.8	2.154	2.934	14.3	19.9
<b>46412</b>	2002 GL <sub>76</sub>		8 29.4 19°80	4°5/24.6	18		<b>204992</b>	1996 ES <sub>4</sub>		8 29.4 335°25	0°9/28.7	18	
7 30	22 51.21	-20 5.4	2.015	2.929	10.4	18.8	7 30	22 54.59	-10 24.1	1.609	2.516	13.1	20.2
8 9	22 46.27	-21 17.1	1.966	2.931	7.4	18.6	8 9	22 48.94	-10 43.6	1.546	2.510	9.1	20.0
8 19	22 39.76	-22 27.5	1.943	2.933	5.0	18.5	8 19	22 41.30	-11 10.2	1.506	2.505	4.7	19.7
8 29	22 32.38	-23 29.6	1.946	2.936	4.8	18.5	8 29	22 32.51	-11 39.0	1.491	2.501	0.9	19.4
9 8	22 25.02	-24 17.5	1.977	2.939	7.1	18.6	9 8	22 23.64	-12 4.3	1.503	2.496	5.0	19.7
9 18	22 18.51	-24 47.6	2.033	2.942	10.0	18.8	9 18	22 15.79	-12 21.4	1.540	2.492	9.4	19.9
9 28	22 13.59	-24 58.4	2.112	2.946	12.8	19.0	9 28	22 9.90	-12 27.1	1.601	2.489	13.4	20.2
10 8	22 10.74	-24 50.7	2.210	2.950	15.1	19.2	10 8	22 6.55	-12 19.7	1.682	2.486	16.7	20.4
<b>53454</b>	1999 XC <sub>136</sub>		8 29.4 13°04	22°5/ 7.1	18		<b>119475</b>	2001 UF <sub>28</sub>		8 29.4 79°78	1°1/28.6	18	
7 30	23 11.14	-55 4.0	1.063	1.908	22.8	17.6	7 30	22 54.48	- 8 57.5	1.516	2.422	13.7	19.7
8 9	23 2.81	-57 32.5	1.061	1.908	22.6	17.6	8 9	22 48.83	- 9 49.4	1.467	2.432	9.5	19.5
8 19	22 49.17	-59 10.9	1.073	1.909	23.0	17.7	8 19	22 41.20	-10 51.1	1.441	2.441	4.9	19.2
8 29	22 32.76	-59 45.4	1.100	1.909	24.0	17.7	8 29	22 32.50	-11 55.4	1.441	2.450	1.1	19.0
9 8	22 17.21	-59 13.5	1.138	1.910	25.4	17.9	9 8	22 23.87	-12 54.8	1.467	2.460	5.2	19.3
9 18	22 5.53	-57 42.5	1.188	1.910	26.8	18.0	9 18	22 16.38	-13 42.9	1.519	2.469	9.7	19.6
9 28	21 59.26	-55 25.1	1.248	1.911	28.1	18.1	9 28	22 10.95	-14 15.4	1.594	2.479	13.6	19.9
10 8	21 58.41	-52 35.0	1.316	1.912	29.3	18.3	10 8	22 8.08	-14 30.7	1.689	2.488	16.8	20.1
<b>511672</b>	2015 BU <sub>377</sub>		8 29.4 13°94	1°1/28.8	17		<b>92083</b>	1999 XD <sub>20</sub>		8 29.4 300°00	6°9/22.2	18	
7 30	22 54.15	-10 4.6	0.995	1.922	17.2	19.9	7 30	22 54.36	-28 27.7	2.076	2.981	10.6	19.2
8 9	22 49.25	-10 24.4	0.952	1.925	12.0	19.6	8 9	22 48.58	-29 33.1	2.022	2.971	8.4	19.1
8 19	22 41.62	-10 55.2	0.928	1.930	6.2	19.3	8 19	22 41.04	-30 30.5	1.993	2.961	7.0	19.0
8 29	22 32.47	-11 29.3	0.926	1.935	1.1	19.0	8 29	22 32.50	-31 12.9	1.989	2.951	7.3	19.0
9 8	22 23.44	-11 58.3	0.946	1.942	6.4	19.4	9 8	22 23.92	-31 35.1	2.012	2.941	9.2	19.1
9 18	22 16.04	-12 15.6	0.988	1.950	12.0	19.7	9 18	22 16.25	-31 34.8	2.058	2.931	11.6	19.2
9 28	22 11.45	-12 16.9	1.049	1.959	16.9	20.1	9 28	22 10.34	-31 12.3	2.127	2.922	14.0	19.4
10 8	22 10.23	-12 1.3	1.128	1.969	20.9	20.4	10 8	22 6.70	-30 30.2	2.213	2.912	16.2	19.5
<b>509967</b>	2009 SD <sub>289</sub>		8 29.4 280°19	1°3/28.4	18		<b>102437</b>	1999 TY <sub>212</sub>		8 29.4 304°55	0°5/29.8	18	
7 30	22 54.22	- 9 33.9	1.570	2.476	13.3	22.0	7 30	22 53.69	- 6 23.8	1.602	2.501	13.6	19.6
8 9	22 48.88	-10 22.7	1.493	2.458	9.4	21.7	8 9	22 48.43	- 6 42.5	1.527	2.486	9.7	19.3
8 19	22 41.37	-11 22.4	1.440	2.440	4.8	21.4	8 19	22 41.11	- 7 13.0	1.475	2.472	5.3	19.0
8 29	22 32.47	-12 26.6	1.412	2.421	1.3	21.2	8 29	22 32.51	- 7 51.1	1.448	2.457	0.7	18.7
9 8	22 23.29	-13 27.4	1.411	2.403	5.5	21.4	9 8	22 23.69	- 8 30.8	1.447	2.443	4.5	18.9
9 18	22 15.01	-14 17.7	1.435	2.384	10.2	21.6	9 18	22 15.76	- 9 6.4	1.471	2.429	9.2	19.2
9 28	22 8.69	-14 52.4	1.482	2.365	14.5	21.8	9 28	22 9.73	- 9 32.7	1.520	2.416	13.4	19.4
10 8	22 5.06	-15 9.1	1.548	2.346	18.1	22.0	10 8	22 6.28	- 9 46.4	1.588	2.403	17.0	19.6
<b>71176</b>	1999 XT <sub>212</sub>		8 29.4 341°06	3°2/26.7	18		<b>322044</b>	2010 VJ <sub>54</sub>		8 29.4 280°25	1°2/28.4	18	
7 30	22 50.26	-13 2.3	1.370	2.293	13.7	18.5	7 30	22 54.90	-12 11.0	2.190	3.086	10.5	20.5
8 9	22 46.19	-14 16.5	1.311	2.284	9.5	18.2	8 9	22 48.82	-12 24.2	2.112	3.072	7.3	20.3
8 19	22 39.96	-15 39.0	1.274	2.275	5.1	17.9	8 19	22 41.14	-12 41.2	2.060	3.058	3.8	20.1
8 29	22 32.42	-17 0.6	1.262	2.267	3.4	17.8	8 29	22 32.51	-12 58.3	2.036	3.044	1.2	19.8
9 8	22 24.76	-18 11.7	1.275	2.260	7.1	18.0	9 8	22 23.76	-13 11.4	2.040	3.030	4.3	20.0
9 18	22 18.17	-19 4.5	1.312	2.254	11.6	18.3	9 18	22 15.72	-13 17.4	2.072	3.016	7.9	20.2
9 28	22 13.70	-19 34.6	1.370	2.249	15.7	18.5	9 28	22 9.19	-13 14.1	2.129	3.001	11.2	20.4
10 8	22 11.97	-19 41.5	1.446	2.245	19.2	18.7	10 8	22 4.67	-13 0.6	2.208	2.987	14.0	20.6
<b>482347</b>	2011 WU <sub>22</sub>		8 29.4 264°96	1°6/27.8	18		<b>224040</b>	2005 ML <sub>9</sub>		8 29.4 352°24	0°3/29.3	18	
7 30	22 52.40	-11 53.6	2.057	2.960	10.8	21.9	7 30	22 50.51	- 6 32.6	1.151	2.070	16.1	19.6
8 9	22 47.10	-12 38.0	1.990	2.953	7.5	21.7	8 9	22 46.60	- 7 22.2	1.095	2.064	11.4	19.3
8 19	22 40.23	-13 27.9	1.948	2.947	3.9	21.5	8 19	22 40.26	- 8 28.8	1.059	2.060	6.0	19.0
8 29	22 32.44	-14 18.1	1.933	2.940	1.7	21.3	8 29	22 32.48	- 9 44.6	1.046	2.056	0.3	18.5
9 8	22 24.57	-15 3.2	1.946	2.934	4.7	21.5	9 8	22 24.59	-10 59.2	1.057	2.054	5.7	18.9
9 18	22 17.46	-15 38.5	1.986	2.927	8.4	21.7	9 18	22 17.95	-12 3.1	1.091	2.052	11.2	19.2
9 28	22 11.87	-16 1.1	2.051	2.921	11.7	21.9	9 28	22 13.70	-12 49.0	1.145	2.052	16.0	19.5
10 8	22 8.31	-16 9.4	2.137	2.914	14.5	22.1	10 8	22 12.48	-13 13.5	1.218	2.053	20.0	19.8
<b>301259</b>	2009 BK <sub>70</sub>		8 29.4 216°57	0°3/29.8	18		<b>260170</b>	2004 RA <sub>87</sub>		8 29.4 23°69	5°0/ 3.4	18	
7 30	22 55.54	- 7 8.8	2.075	2.962	11.5	21.0	7 30	22 51.36	+ 6 49.3	2.013	2.853	13.7	20.0
8 9	22 49.27	- 7 21.1	2.003	2.957	8.1	20.8	8 9	22 46.38	+ 6 57.1	1.945	2.856	10.8	19.8
8 19	22 41.35	- 7 41.4	1.956	2.952	4.3	20.6	8 19	22 39.87	+ 6 46.2	1.899	2.859	7.8	19.6
8 29	22 32.49	- 8 6.3	1.937	2.947	0.5	20.3	8 29	22 32.47	+ 6 17.7	1.877	2.863	5.5	19.5
9 8	22 23.54	- 8 31.7	1.946	2.941	3.8	20.5	9 8	22 25.00	+ 5 35.0	1.882	2.866	5.3	19.5
9 18	22 15.38	- 8 53.5	1.983	2.935	7.6	20.8	9 18	22 18.29	+ 4 43.1	1.914	2.870	7.6	19.6
9 28	22 8.79	- 9 8.6	2.045	2.929	11.1	21.0	9 28	22 13.08	+ 3 48.0	1.971	2.875	10.5	19.8
10 8	22 4.30	- 9 14.5	2.130	2.922	14.0	21.2	10 8	22 9.87	+ 2 55.6	2.051	2.879	13.2	20.0
<b>111536</b>	2001 YW <sub>117</sub>		8 29.4 97°95	6°6/22.9	18		<b>515395</b>	2013 GV <sub>76</sub>		8 29.4 321°44	3°9/25.9	18	
7 30	22 55.22												

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>255394</b>	2005 <i>WE</i> <sub>166</sub>		8 29.4 282°89	1.2°/28.3	18		<b>294481</b>	2007 <i>WL</i> <sub>6</sub>		8 29.5 299°02	0.7°/28.9	18	
7 30	22 51.56	-10 41.4	2.173	3.073	10.4	20.8	7 30	22 54.72	-9 50.7	1.796	2.696	12.2	20.4
8 9	22 46.49	-11 21.2	2.101	3.063	7.2	20.6	8 9	22 48.93	-10 10.2	1.728	2.689	8.6	20.1
8 19	22 39.93	-12 7.1	2.054	3.053	3.7	20.3	8 19	22 41.31	-10 36.9	1.683	2.682	4.4	19.9
8 29	22 32.49	-12 54.7	2.035	3.044	1.2	20.1	8 29	22 32.61	-11 6.1	1.665	2.675	0.7	19.6
9 8	22 24.94	-13 38.7	2.044	3.034	4.3	20.3	9 8	22 23.81	-11 32.7	1.675	2.668	4.5	19.8
9 18	22 18.09	-14 14.8	2.080	3.025	7.8	20.6	9 18	22 15.90	-11 52.4	1.710	2.661	8.7	20.1
9 28	22 12.64	-14 39.8	2.142	3.015	11.1	20.7	9 28	22 9.77	-12 1.8	1.770	2.655	12.5	20.3
10 8	22 9.11	-14 51.9	2.224	3.006	13.8	20.9	10 8	22 5.98	-11 59.2	1.851	2.648	15.6	20.5
<b>171701</b>	2000 <i>SU</i> <sub>262</sub>		8 29.4 254°49	3.2°/26.9	18		<b>389559</b>	2010 <i>UW</i> <sub>33</sub>		8 29.5 244°44	0.5°/28.5	15	
7 30	22 56.55	-13 56.6	1.519	2.431	13.4	20.2	7 30	22 45.76	-11 3.2	4.690	5.579	5.5	21.7
8 9	22 50.59	-14 59.8	1.450	2.417	9.3	19.9	8 9	22 41.86	-11 23.3	4.615	5.572	3.8	21.6
8 19	22 42.32	-16 9.8	1.404	2.402	5.1	19.7	8 19	22 37.32	-11 45.7	4.567	5.565	1.9	21.5
8 29	22 32.60	-17 18.1	1.383	2.388	3.4	19.5	8 29	22 32.44	-12 8.6	4.549	5.558	0.5	21.3
9 8	22 22.63	-18 16.1	1.389	2.372	6.9	19.7	9 8	22 27.53	-12 30.1	4.561	5.551	2.1	21.5
9 18	22 13.69	-18 57.3	1.420	2.357	11.4	19.9	9 18	22 22.90	-12 48.6	4.602	5.544	4.0	21.6
9 28	22 6.90	-19 17.8	1.474	2.341	15.5	20.1	9 28	22 18.88	-13 2.6	4.671	5.536	5.7	21.7
10 8	22 2.96	-19 17.4	1.545	2.325	19.0	20.3	10 8	22 15.71	-13 11.1	4.765	5.529	7.2	21.8
<b>33155</b>	1998 <i>DD</i> <sub>17</sub>		8 29.4 51°41	6.7°/ 3.2	18		<b>331413</b>	2012 <i>FN</i> <sub>59</sub>		8 29.5 172°06	2.4°/27.6	17	
7 30	22 56.97	+ 6 34.5	1.496	2.346	17.0	17.3	7 30	22 57.22	-12 34.3	1.599	2.505	13.1	21.4
8 9	22 50.62	+ 7 18.1	1.442	2.358	13.5	17.1	8 9	22 50.80	-13 29.1	1.543	2.508	9.1	21.1
8 19	22 42.19	+ 7 39.3	1.409	2.370	9.9	17.0	8 19	22 42.32	-14 29.9	1.511	2.510	4.8	20.9
8 29	22 32.59	+ 7 37.7	1.399	2.383	7.1	16.8	8 29	22 32.66	-15 29.5	1.505	2.511	2.5	20.8
9 8	22 23.01	+ 7 16.5	1.414	2.396	7.0	16.9	9 8	22 22.99	-16 20.4	1.526	2.512	6.0	21.0
9 18	22 14.60	+ 6 41.1	1.454	2.409	9.6	17.1	9 18	22 14.44	-16 57.0	1.573	2.513	10.2	21.2
9 28	22 8.34	+ 5 59.2	1.518	2.422	12.9	17.3	9 28	22 7.97	-17 16.3	1.643	2.513	14.1	21.5
10 8	22 4.78	+ 5 17.9	1.602	2.436	16.0	17.5	10 8	22 4.14	-17 17.9	1.733	2.513	17.2	21.7
<b>155744</b>	2000 <i>SC</i> <sub>61</sub>		8 29.5 41°76	0°8/30.1	18 R		<b>329916</b>	2005 <i>MX</i> <sub>7</sub>		8 29.5 4°52	5.1°/ 2.3	17	
7 30	22 52.62	- 4 17.5	1.286	2.190	15.8	19.4	7 30	22 51.04	+ 3 56.7	1.207	2.091	18.1	19.8
8 9	22 47.68	- 5 2.7	1.244	2.206	11.2	19.2	8 9	22 46.90	+ 3 50.6	1.149	2.090	14.0	19.6
8 19	22 40.65	- 6 4.1	1.225	2.222	6.0	18.9	8 19	22 40.43	+ 3 17.7	1.110	2.090	9.4	19.4
8 29	22 32.52	- 7 14.6	1.229	2.238	1.0	18.6	8 29	22 32.58	+ 2 20.6	1.092	2.091	5.6	19.1
9 8	22 24.54	- 8 25.3	1.258	2.255	4.8	19.0	9 8	22 24.63	+ 1 6.5	1.098	2.093	6.0	19.2
9 18	22 17.87	- 9 28.0	1.312	2.273	9.7	19.3	9 18	22 17.87	- 0 14.7	1.128	2.096	10.0	19.4
9 28	22 13.41	-10 16.5	1.388	2.291	14.0	19.6	9 28	22 13.41	- 1 32.5	1.179	2.100	14.4	19.7
10 8	22 11.65	-10 47.5	1.483	2.310	17.5	19.9	10 8	22 11.88	- 2 38.5	1.249	2.104	18.4	19.9
<b>352893</b>	2008 <i>YR</i> <sub>50</sub>		8 29.5 314°65	3°6/26.2	18		<b>147842</b>	2005 <i>TU</i> <sub>175</sub>		8 29.5 210°76	5°5/23.2	18	
7 30	22 53.09	-15 59.9	1.699	2.613	12.0	20.5	7 30	22 54.46	-25 55.4	2.367	3.270	9.6	20.2
8 9	22 47.87	-17 3.0	1.640	2.608	8.4	20.2	8 9	22 48.47	-26 56.4	2.315	3.266	7.3	20.0
8 19	22 40.75	-18 9.1	1.606	2.603	4.8	20.0	8 19	22 40.96	-27 51.8	2.288	3.263	5.7	19.9
8 29	22 32.53	-19 10.9	1.597	2.598	3.8	19.9	8 29	22 32.61	-28 35.6	2.288	3.259	5.9	19.9
9 8	22 24.24	-20 0.9	1.615	2.593	6.8	20.1	9 8	22 24.24	-29 3.2	2.315	3.254	7.6	20.0
9 18	22 16.92	-20 34.2	1.658	2.588	10.5	20.3	9 18	22 16.67	-29 12.2	2.368	3.250	10.0	20.2
9 28	22 11.45	-20 48.2	1.724	2.584	14.0	20.5	9 28	22 10.63	-29 2.6	2.445	3.245	12.3	20.3
10 8	22 8.42	-20 43.1	1.809	2.580	16.9	20.7	10 8	22 6.58	-28 35.8	2.540	3.240	14.3	20.5
<b>348135</b>	2004 <i>BW</i> <sub>110</sub>		8 29.5 190°68	2°4/31.7	18		<b>311425</b>	2005 <i>UM</i> <sub>128</sub>		8 29.5 209°18	0°3/29.2	18	
7 30	22 55.53	- 0 43.5	2.386	3.245	11.2	20.6	7 30	22 51.93	- 8 14.2	2.578	3.465	9.5	22.2
8 9	22 49.11	- 0 39.6	2.311	3.244	8.3	20.4	8 9	22 46.56	- 8 46.8	2.505	3.460	6.6	22.0
8 19	22 41.27	- 0 46.6	2.260	3.242	5.2	20.3	8 19	22 39.93	- 9 25.9	2.459	3.456	3.4	21.8
8 29	22 32.59	- 1 2.8	2.237	3.240	2.6	20.1	8 29	22 32.57	-10 7.9	2.440	3.450	0.3	21.5
9 8	22 23.82	- 1 25.1	2.244	3.237	3.6	20.1	9 8	22 25.14	-10 48.9	2.451	3.445	3.3	21.8
9 18	22 15.74	- 1 50.1	2.279	3.234	6.6	20.3	9 18	22 18.30	-11 25.1	2.491	3.439	6.5	22.0
9 28	22 9.01	- 2 14.1	2.341	3.231	9.6	20.5	9 28	22 12.66	-11 53.5	2.557	3.432	9.4	22.1
10 8	22 4.15	- 2 33.8	2.427	3.227	12.3	20.7	10 8	22 8.67	-12 12.1	2.646	3.426	11.9	22.3
<b>24230</b>	1999 <i>XE</i> <sub>90</sub>		8 29.5 27°59	6°2/ 3.0	18		<b>368869</b>	2006 <i>QZ</i> <sub>104</sub>		8 29.5 16°25	0°0/29.4	17	
7 30	22 54.41	+ 5 38.3	1.472	2.332	16.8	17.7	7 30	22 55.69	- 9 21.3	0.922	1.850	18.2	19.9
8 9	22 48.89	+ 6 13.0	1.417	2.340	13.2	17.5	8 9	22 50.44	- 9 7.0	0.883	1.855	12.8	19.6
8 19	22 41.32	+ 6 25.6	1.382	2.349	9.5	17.3	8 19	22 42.33	- 9 3.7	0.862	1.863	6.7	19.3
8 29	22 32.59	+ 6 16.3	1.370	2.358	6.6	17.1	8 29	22 32.67	- 9 6.2	0.862	1.871	0.3	18.9
9 8	22 23.84	+ 5 48.8	1.382	2.368	6.6	17.2	9 8	22 23.22	- 9 8.0	0.883	1.882	6.0	19.4
9 18	22 16.21	+ 5 8.8	1.420	2.379	9.4	17.4	9 18	22 15.56	- 9 3.9	0.927	1.894	11.9	19.7
9 28	22 10.65	+ 4 23.9	1.480	2.390	12.8	17.6	9 28	22 10.91	- 8 49.9	0.990	1.907	16.9	20.1
10 8	22 7.73	+ 3 41.2	1.561	2.401	16.1	17.8	10 8	22 9.77	- 8 24.4	1.070	1.921	21.0	20.4
<b>443376</b>	2014 <i>HK</i> <sub>5</sub>		8 29.5 154°16	2°0/27.4	18		<b>242614</b>	2005 <i>JY</i> <sub>112</sub>		8 29.5 36°22	1°7/31.0	18	
7 30	22 53.91	-13 13.2	2.126	3.027	10.6	22.0	7 30	22 52.71	- 2 34.1	1.729	2.614	13.4	20.3
8 9	22 48.08	-14 1.0	2.069	3.032	7.3	21.8	8 9	22 47.51	- 2 55.9	1.668	2.618	9.7	20.0
8 19	22 40.74	-14 52.6	2.038	3.036	3.8	21.6	8 19	22 40.55	- 3 31.8	1.630	2.622	5.7	19.8
8 29	22 32.57	-15 42.6	2.035	3.040	2.1	21.5	8 29	22 32.60	- 4 18.1	1.618	2.625	2.0	19.6
9 8	22 24.40	-16 25.8	2.059	3.044	4.9	21.7	9 8	22 24.61	- 5 8.9	1.632	2.629	4.0	19.7
9 18	22 17.05	-16 58.2	2.112	3.048	8.3	21.9	9 18	22 17.55	- 5 58.5	1.673	2.634	8.1	20.0
9 28	22 11.24	-17 17.1	2.189	3.051	11.4	22.1	9 28	22 12.24	- 6 41.3	1.739	2.638	11.8	20.2
10 8	22 7.44	-17 22.1	2.287	3.053	13.9	22.3	10 8	22 9.20	- 7 13.3	1.825	2.643	15.0	20.5
<b>72462</b>	2001 <i>DL</i> <sub>21</sub>		8 29.5 100°94	5°1/24.4	18		<b>385554</b>	2004 <i>TP</i> <sub>64</sub>					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>469719</b>	2005 <i>LE</i> <sub>13</sub>		8 29.5 32°50	1.4/28.4	17		<b>186767</b>	2004 <i>DY</i> <sub>8</sub>		8 29.5 240°35	0.8/30.2	18	
7 30	22 52.57	- 8 46.0	1.127	2.048	16.1	20.5	7 30	22 55.51	- 4 39.9	1.750	2.637	13.2	21.3
8 9	22 47.93	- 9 48.9	1.087	2.058	11.2	20.2	8 9	22 49.65	- 5 14.6	1.672	2.624	9.5	21.0
8 19	22 40.91	-11 4.6	1.067	2.068	5.7	20.0	8 19	22 41.81	- 6 3.0	1.617	2.611	5.2	20.8
8 29	22 32.62	-12 23.5	1.071	2.080	1.5	19.7	8 29	22 32.73	- 7 0.5	1.588	2.598	0.9	20.4
9 8	22 24.45	-13 34.9	1.098	2.092	6.2	20.1	9 8	22 23.42	- 8 0.7	1.587	2.584	4.3	20.6
9 18	22 17.72	-14 30.4	1.149	2.105	11.4	20.4	9 18	22 14.93	- 8 57.1	1.613	2.569	8.8	20.9
9 28	22 13.47	-15 5.0	1.221	2.119	15.9	20.7	9 28	22 8.23	- 9 44.0	1.664	2.554	12.8	21.1
10 8	22 12.21	-15 17.6	1.310	2.133	19.5	21.0	10 8	22 3.98	-10 17.5	1.736	2.538	16.3	21.3
<b>390142</b>	2012 <i>VC</i> <sub>84</sub>		8 29.5 264°48	1.6/27.9	18		<b>211767</b>	2004 <i>BT</i> <sub>52</sub>		8 29.5 304°08	2.6/31.7	18	
7 30	22 53.38	-11 9.3	1.810	2.715	11.9	21.5	7 30	22 53.94	- 1 0.0	1.835	2.710	13.3	20.4
8 9	22 48.01	-11 59.0	1.744	2.708	8.3	21.2	8 9	22 48.39	- 1 0.6	1.764	2.706	9.8	20.1
8 19	22 40.85	-12 56.0	1.702	2.702	4.3	21.0	8 19	22 41.07	- 1 15.3	1.716	2.702	6.1	19.9
8 29	22 32.63	-13 54.1	1.687	2.695	1.7	20.8	8 29	22 32.70	- 1 41.7	1.694	2.698	2.9	19.7
9 8	22 24.31	-14 46.9	1.699	2.688	5.1	21.0	9 8	22 24.22	- 2 15.5	1.698	2.694	4.1	19.8
9 18	22 16.85	-15 28.8	1.738	2.682	9.2	21.3	9 18	22 16.56	- 2 51.8	1.730	2.690	7.9	20.0
9 28	22 11.11	-15 56.2	1.800	2.675	12.8	21.5	9 28	22 10.59	- 3 25.5	1.786	2.686	11.5	20.2
10 8	22 7.67	-16 7.5	1.883	2.668	15.8	21.7	10 8	22 6.87	- 3 52.2	1.864	2.683	14.7	20.4
<b>49562</b>	1999 <i>CF</i> <sub>100</sub>		8 29.5 295°46	2.1/27.3	18		<b>286590</b>	2002 <i>CS</i> <sub>263</sub>		8 29.5 147°43	0.2/29.7	18	
7 30	22 51.05	-11 23.6	1.816	2.725	11.7	18.5	7 30	22 51.59	- 6 13.0	2.624	3.505	9.5	21.7
8 9	22 46.47	-12 36.2	1.743	2.709	8.1	18.2	8 9	22 46.27	- 6 51.5	2.562	3.514	6.7	21.6
8 19	22 40.09	-13 57.6	1.694	2.693	4.2	18.0	8 19	22 39.78	- 7 37.5	2.526	3.521	3.5	21.4
8 29	22 32.60	-15 20.9	1.671	2.678	2.3	17.8	8 29	22 32.64	- 8 27.5	2.519	3.529	0.3	21.1
9 8	22 24.91	-16 38.2	1.676	2.662	5.6	18.0	9 8	22 25.51	- 9 17.2	2.541	3.536	3.1	21.4
9 18	22 17.98	-17 42.7	1.707	2.647	9.6	18.2	9 18	22 18.98	-10 2.9	2.592	3.542	6.2	21.6
9 28	22 12.70	-18 29.8	1.762	2.632	13.3	18.4	9 28	22 13.64	-10 41.1	2.670	3.548	9.0	21.8
10 8	22 9.66	-18 57.3	1.837	2.617	16.4	18.6	10 8	22 9.89	-11 9.7	2.771	3.554	11.3	22.0
<b>472509</b>	2015 <i>CZ</i> <sub>31</sub>		8 29.5 85°00	2.7/27.4	17		<b>57080</b>	2001 <i>OE</i> <sub>21</sub>		8 29.5 347°79	0.8/30.2	18	
7 30	22 57.24	-13 49.0	1.501	2.412	13.5	21.1	7 30	22 49.19	- 3 27.5	1.190	2.101	16.3	18.2
8 9	22 50.75	-14 36.8	1.460	2.426	9.3	20.9	8 9	22 45.69	- 4 23.5	1.130	2.094	11.7	17.9
8 19	22 42.24	-15 28.4	1.441	2.440	5.0	20.6	8 19	22 39.88	- 5 40.9	1.090	2.087	6.5	17.6
8 29	22 32.70	-16 16.4	1.449	2.454	2.8	20.6	8 29	22 32.65	- 7 12.6	1.073	2.082	1.1	17.2
9 8	22 23.32	-16 54.0	1.482	2.468	6.2	20.8	9 8	22 25.27	- 8 47.7	1.079	2.078	5.2	17.5
9 18	22 15.23	-17 16.6	1.541	2.482	10.4	21.1	9 18	22 19.02	-10 15.1	1.109	2.074	10.6	17.8
9 28	22 9.34	-17 22.2	1.623	2.495	14.1	21.3	9 28	22 15.04	-11 25.8	1.161	2.072	15.5	18.1
10 8	22 6.12	-17 11.2	1.724	2.509	17.1	21.6	10 8	22 13.98	-12 14.5	1.231	2.071	19.5	18.3
<b>250036</b>	2002 <i>CO</i> <sub>118</sub>		8 29.5 333°41	3.2/26.1	18		<b>281684</b>	2008 <i>WV</i> <sub>22</sub>		8 29.5 18°46	2.5/31.4	18	
7 30	22 49.88	-14 7.2	1.746	2.662	11.7	19.4	7 30	22 51.71	- 1 39.2	1.268	2.167	16.3	19.8
8 9	22 45.65	-15 30.0	1.685	2.654	8.1	19.2	8 9	22 47.23	- 1 56.1	1.217	2.173	12.0	19.5
8 19	22 39.65	-16 58.9	1.647	2.646	4.5	19.0	8 19	22 40.56	- 2 32.3	1.187	2.179	7.1	19.3
8 29	22 32.59	-18 25.6	1.637	2.639	3.5	18.9	8 29	22 32.68	- 3 23.0	1.180	2.187	2.8	19.0
9 8	22 25.42	-19 42.1	1.652	2.632	6.5	19.1	9 8	22 24.82	- 4 20.8	1.197	2.195	4.8	19.2
9 18	22 19.08	-20 42.0	1.694	2.625	10.3	19.3	9 18	22 18.18	- 5 17.5	1.238	2.204	9.5	19.5
9 28	22 14.45	-21 21.4	1.758	2.619	13.7	19.5	9 28	22 13.74	- 6 5.7	1.301	2.214	13.9	19.8
10 8	22 12.08	-21 39.6	1.842	2.614	16.6	19.7	10 8	22 12.08	- 6 40.4	1.384	2.225	17.7	20.1
<b>78591</b>	2002 <i>SX</i> <sub>18</sub>		8 29.5 286°08	6.2/23.3	18		<b>515094</b>	2010 <i>UT</i> <sub>108</sub>		8 29.5 165°44	2.2/27.2	18	
7 30	22 54.88	-24 3.8	1.850	2.761	11.3	19.4	7 30	22 53.41	-15 5.9	2.350	3.251	9.7	21.5
8 9	22 49.24	-25 18.5	1.782	2.741	8.5	19.2	8 9	22 47.68	-15 40.8	2.290	3.253	6.7	21.4
8 19	22 41.59	-26 29.7	1.740	2.721	6.5	19.1	8 19	22 40.56	-16 17.6	2.257	3.254	3.7	21.2
8 29	22 32.69	-27 29.2	1.723	2.701	6.7	19.0	8 29	22 32.69	-16 51.6	2.251	3.255	2.3	21.1
9 8	22 23.60	-28 9.8	1.732	2.681	9.0	19.1	9 8	22 24.81	-17 18.6	2.274	3.256	4.7	21.3
9 18	22 15.39	-28 27.4	1.766	2.661	12.1	19.3	9 18	22 17.68	-17 35.7	2.325	3.257	7.8	21.5
9 28	22 9.04	-28 21.1	1.821	2.640	15.1	19.4	9 28	22 11.94	-17 40.8	2.400	3.258	10.6	21.6
10 8	22 5.20	-27 52.7	1.895	2.620	17.7	19.6	10 8	22 8.04	-17 33.7	2.498	3.259	13.0	21.8
<b>100804</b>	1998 <i>FM</i> <sub>105</sub>		8 29.5 118°54	0.9/30.2	18		<b>451197</b>	2009 <i>TS</i> <sub>32</sub>		8 29.5 350°70	2.8/27.1	17	
7 30	22 59.04	- 5 28.1	1.591	2.479	14.2	20.0	7 30	22 53.37	-16 3.1	1.860	2.771	11.3	21.3
8 9	22 51.95	- 5 43.8	1.540	2.493	10.1	19.8	8 9	22 47.95	-16 31.9	1.801	2.767	7.9	21.0
8 19	22 42.88	- 6 11.1	1.512	2.507	5.5	19.5	8 19	22 40.81	-17 2.2	1.766	2.763	4.4	20.8
8 29	22 32.76	- 6 45.5	1.510	2.520	1.1	19.3	8 29	22 32.70	-17 28.4	1.757	2.760	3.0	20.7
9 8	22 22.75	- 7 21.3	1.536	2.532	4.4	19.5	9 8	22 24.58	-17 45.7	1.775	2.758	5.7	20.9
9 18	22 13.94	- 7 53.2	1.588	2.544	8.8	19.8	9 18	22 17.38	-17 50.7	1.819	2.756	9.3	21.1
9 28	22 7.25	- 8 16.6	1.665	2.556	12.8	20.1	9 28	22 11.90	-17 41.8	1.886	2.754	12.6	21.3
10 8	22 3.18	- 8 29.1	1.762	2.567	16.0	20.3	10 8	22 8.65	-17 18.9	1.974	2.753	15.4	21.5
<b>339412</b>	2005 <i>CP</i> <sub>58</sub>		8 29.5 256°15	2.8/ 1.1	18		<b>149347</b>	2002 <i>VN</i> <sub>127</sub>		8 29.5 231°85	0.5/29.1	18	R
7 30	22 54.37	+ 0 55.2	2.142	3.001	12.2	21.2	7 30	22 56.40	- 8 29.6	1.856	2.749	12.3	20.8
8 9	22 48.63	+ 0 43.6	2.048	2.981	9.3	20.9	8 9	22 50.18	- 9 3.8	1.780	2.738	8.6	20.5
8 19	22 41.21	+ 0 17.5	1.978	2.959	5.9	20.7	8 19	22 42.06	- 9 47.1	1.729	2.727	4.5	20.3
8 29	22 32.69	- 0 21.4	1.935	2.937	3.1	20.5	8 29	22 32.77	-10 34.5	1.705	2.715	0.5	19.9
9 8	22 23.90	- 1 9.2	1.921	2.915	4.0	20.5	9 8	22 23.30	-11 20.3	1.709	2.702	4.5	20.2
9 18	22 15.69	- 2 0.9	1.934	2.891	7.4	20.7	9 18	22 14.66	-11 59.0	1.740	2.689	8.7	20.4
9 28	22 8.91	- 2 51.1	1.973	2.868	10.9	20.8	9 28	22 7.76	-12 26.6	1.795	2.675	12.6	20.7
10 8	22 4.16	- 3 34.9	2.035	2.843	14.0	21.0	10 8	22 3.23	-12 40.6	1.872	2.661	15.8	20.8
<b>337300</b>	2000 <i>YG</i> <sub>9</sub>		8 29.5 259°09	1.4/30.8	18		<b>104278</b>	2000 <i>EK</i> <sub>152&lt;/</sub>					

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8 29.5

8 29.5

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>36938</b>	2000 SA <sub>234</sub>		8 29.5 224°07	2.7/27.2	18		<b>170073</b>	Ivanlinscott		8 29.5 325°68	4.8/25.5	18	
7 30	22 55.09	-11 45.1	1.491	2.402	13.6	19.3	7 30	22 56.32	-20 55.8	1.774	2.685	11.8	19.7
8 9	22 49.55	-13 6.4	1.429	2.397	9.4	19.0	8 9	22 50.12	-21 39.1	1.719	2.682	8.5	19.5
8 19	22 41.82	-14 37.3	1.392	2.391	5.0	18.7	8 19	22 42.00	-22 19.6	1.688	2.679	5.6	19.3
8 29	22 32.76	-16 8.5	1.380	2.386	2.9	18.6	8 29	22 32.82	-22 50.5	1.683	2.676	5.0	19.3
9 8	22 23.55	-17 30.1	1.395	2.380	6.6	18.8	9 8	22 23.64	-23 6.1	1.705	2.673	7.5	19.4
9 18	22 15.41	-18 34.6	1.435	2.374	11.1	19.1	9 18	22 15.53	-23 3.7	1.752	2.670	10.8	19.6
9 28	22 9.38	-19 17.2	1.497	2.367	15.2	19.3	9 28	22 9.37	-22 42.8	1.821	2.668	14.0	19.8
10 8	22 6.10	-19 37.0	1.578	2.360	18.5	19.5	10 8	22 5.68	-22 5.2	1.910	2.665	16.7	20.0
<b>204756</b>	2006 JF <sub>36</sub>		8 29.5 0°17	0.7/28.9	18		<b>513680</b>	2011 YQ <sub>27</sub>		8 29.5 47°99	6.5/4.4	18	
7 30	22 52.01	- 8 2.2	1.546	2.453	13.5	20.5	7 30	22 54.90	+ 9 26.7	1.973	2.795	14.6	20.3
8 9	22 47.24	- 8 49.6	1.488	2.452	9.4	20.2	8 9	22 48.90	+10 7.9	1.916	2.809	11.8	20.2
8 19	22 40.53	- 9 48.2	1.452	2.451	4.9	20.0	8 19	22 41.29	+10 29.3	1.880	2.824	9.1	20.0
8 29	22 32.70	-10 51.6	1.441	2.451	0.7	19.7	8 29	22 32.79	+10 30.6	1.869	2.839	7.0	19.9
9 8	22 24.82	-11 52.4	1.457	2.451	4.9	20.0	9 8	22 24.28	+10 14.0	1.883	2.854	6.6	20.0
9 18	22 17.93	-12 43.8	1.498	2.452	9.4	20.2	9 18	22 16.65	+ 9 43.7	1.924	2.870	8.3	20.1
9 28	22 12.96	-13 20.8	1.562	2.453	13.5	20.5	9 28	22 10.65	+ 9 5.2	1.990	2.886	10.8	20.3
10 8	22 10.47	-13 41.0	1.646	2.455	16.8	20.7	10 8	22 6.78	+ 8 24.9	2.079	2.901	13.3	20.5
<b>237000</b>	2008 RM <sub>41</sub>		8 29.5 347°83	0.4/29.2	18		<b>311917</b>	2007 BX <sub>29</sub>		8 29.5 122°94	0.2/29.7	18	
7 30	22 50.90	- 8 2.5	1.179	2.099	15.7	20.3	7 30	22 55.37	- 8 4.0	2.490	3.372	9.9	20.5
8 9	22 46.94	- 8 32.3	1.119	2.089	11.1	20.0	8 9	22 48.92	- 8 9.3	2.431	3.382	7.0	20.3
8 19	22 40.56	- 9 15.8	1.080	2.081	5.8	19.7	8 19	22 41.19	- 8 20.2	2.398	3.393	3.7	20.1
8 29	22 32.72	-10 6.5	1.064	2.074	0.4	19.3	8 29	22 32.79	- 8 33.9	2.393	3.403	0.3	19.8
9 8	22 24.73	-10 55.7	1.071	2.068	5.6	19.7	9 8	22 24.43	- 8 47.3	2.418	3.413	3.2	20.1
9 18	22 17.94	-11 35.6	1.101	2.063	11.0	20.0	9 18	22 16.80	- 8 57.7	2.472	3.423	6.4	20.3
9 28	22 13.51	-12 0.3	1.152	2.060	15.8	20.2	9 28	22 10.53	- 9 2.8	2.553	3.432	9.3	20.5
10 8	22 12.11	-12 6.9	1.221	2.058	19.8	20.5	10 8	22 6.02	- 9 0.9	2.658	3.441	11.8	20.7
<b>484868</b>	2009 OP <sub>8</sub>		8 29.5 318°24	7.6/3.7	17		<b>136362</b>	2004 DF <sub>27</sub>		8 29.5 345°99	1.9/28.0	18	
7 30	22 55.44	+ 9 45.5	1.920	2.741	15.0	20.2	7 30	22 54.13	-12 30.4	1.686	2.595	12.4	19.7
8 9	22 49.66	+10 51.5	1.827	2.718	12.5	20.0	8 9	22 48.63	-13 1.9	1.626	2.592	8.6	19.5
8 19	22 41.90	+11 40.0	1.755	2.695	9.9	19.8	8 19	22 41.25	-13 38.7	1.589	2.589	4.5	19.3
8 29	22 32.80	+12 8.3	1.707	2.673	8.0	19.7	8 29	22 32.80	-14 15.0	1.579	2.586	1.9	19.1
9 8	22 23.27	+12 16.2	1.685	2.651	7.8	19.6	9 8	22 24.30	-14 45.0	1.595	2.584	5.3	19.3
9 18	22 14.35	+12 6.0	1.689	2.629	9.6	19.7	9 18	22 16.79	-15 4.2	1.636	2.582	9.4	19.6
9 28	22 7.03	+11 42.4	1.717	2.608	12.4	19.8	9 28	22 11.14	-15 9.8	1.701	2.581	13.2	19.8
10 8	22 2.04	+11 12.2	1.766	2.588	15.3	19.9	10 8	22 7.91	-15 1.0	1.786	2.580	16.3	20.0
<b>392320</b>	2010 EP <sub>42</sub>		8 29.5 166°27	2.1/27.3	18		<b>46635</b>	1994 WK <sub>2</sub>		8 29.5 197°15	3.2/25.7	18	
7 30	22 54.76	-13 24.8	2.293	3.190	10.1	22.3	7 30	22 53.80	-17 18.3	2.438	3.340	9.4	18.8
8 9	22 48.65	-14 19.5	2.235	3.196	6.9	22.1	8 9	22 48.01	-18 24.2	2.376	3.337	6.6	18.6
8 19	22 41.10	-15 17.7	2.203	3.201	3.7	21.9	8 19	22 40.80	-19 31.3	2.340	3.334	4.0	18.4
8 29	22 32.75	-16 14.1	2.200	3.205	2.2	21.8	8 29	22 32.78	-20 33.9	2.333	3.329	3.4	18.4
9 8	22 24.39	-17 3.5	2.226	3.208	4.8	22.0	9 8	22 24.68	-21 26.7	2.354	3.324	5.6	18.5
9 18	22 16.80	-17 41.9	2.279	3.211	8.0	22.2	9 18	22 17.26	-22 5.9	2.404	3.319	8.4	18.7
9 28	22 10.66	-18 6.8	2.359	3.213	10.9	22.4	9 28	22 11.20	-22 29.5	2.478	3.313	11.1	18.9
10 8	22 6.43	-18 17.6	2.460	3.215	13.4	22.6	10 8	22 6.97	-22 37.3	2.573	3.306	13.4	19.0
<b>45978</b>	2001 BY <sub>44</sub>		8 29.5 11°53	2.0/27.6	18		<b>385548</b>	2004 RB <sub>341</sub>		8 29.5 312°25	11.3/17.2	18	
7 30	22 47.56	- 7 58.7	1.280	2.201	14.7	17.1	7 30	22 53.61	-32 36.1	1.423	2.338	13.9	19.7
8 9	22 44.36	- 9 48.2	1.232	2.204	10.1	16.8	8 9	22 49.04	-34 56.4	1.374	2.317	11.9	19.5
8 19	22 39.10	-11 52.9	1.206	2.208	5.1	16.6	8 19	22 41.80	-37 4.7	1.346	2.297	11.4	19.5
8 29	22 32.65	-14 1.3	1.205	2.214	2.1	16.4	8 29	22 32.83	-38 46.9	1.342	2.276	12.6	19.5
9 8	22 26.19	-16 0.7	1.230	2.220	6.4	16.7	9 8	22 23.56	-39 52.7	1.360	2.257	15.0	19.6
9 18	22 20.83	-17 40.4	1.278	2.228	11.2	17.0	9 18	22 15.50	-40 17.6	1.397	2.238	17.9	19.7
9 28	22 17.54	-18 53.7	1.349	2.236	15.4	17.2	9 28	22 9.96	-40 3.2	1.450	2.219	20.6	19.9
10 8	22 16.87	-19 38.8	1.438	2.246	18.8	17.5	10 8	22 7.72	-39 14.9	1.517	2.201	23.0	20.0
<b>226296</b>	2003 BO <sub>65</sub>		8 29.5 280°50	1.9/30.9	18		<b>84138</b>	2002 RT <sub>52</sub>		8 29.5 271°23	2.1/27.9	18	
7 30	22 54.83	- 2 50.8	1.568	2.456	14.4	20.2	7 30	22 58.12	-14 37.9	1.952	2.852	11.4	19.7
8 9	22 49.36	- 3 5.0	1.492	2.443	10.6	20.0	8 9	22 51.36	-14 53.0	1.874	2.835	8.0	19.5
8 19	22 41.76	- 3 34.7	1.437	2.429	6.2	19.7	8 19	22 42.70	-15 10.3	1.820	2.818	4.3	19.2
8 29	22 32.80	- 4 16.5	1.408	2.416	2.1	19.4	8 29	22 32.88	-15 24.9	1.794	2.801	2.2	19.1
9 8	22 23.59	- 5 4.6	1.405	2.402	4.5	19.5	9 8	22 22.88	-15 32.5	1.796	2.783	5.2	19.2
9 18	22 15.28	- 5 52.4	1.428	2.389	9.1	19.8	9 18	22 13.73	-15 29.9	1.826	2.765	9.1	19.4
9 28	22 8.93	- 6 33.7	1.474	2.375	13.4	20.0	9 28	22 6.33	-15 15.2	1.880	2.748	12.7	19.6
10 8	22 5.21	- 7 3.8	1.541	2.362	17.2	20.2	10 8	22 1.29	-14 48.3	1.955	2.730	15.7	19.8
<b>476202</b>	2007 UE <sub>59</sub>		8 29.5 253°56	1.9/27.7	18		<b>240931</b>	2006 FQ <sub>29</sub>		8 29.5 241°21	4.2/25.8	18	
7 30	22 54.27	-12 44.1	2.074	2.975	10.8	22.2	7 30	22 56.77	-19 19.0	1.925	2.832	11.2	20.9
8 9	22 48.56	-13 26.3	1.999	2.961	7.5	22.0	8 9	22 50.41	-20 8.6	1.860	2.822	8.0	20.7
8 19	22 41.17	-14 13.6	1.949	2.948	4.0	21.8	8 19	22 42.18	-20 57.5	1.820	2.812	5.1	20.5
8 29	22 32.78	-15 0.7	1.927	2.933	1.9	21.6	8 29	22 32.86	-21 39.1	1.807	2.802	4.4	20.4
9 8	22 24.22	-15 42.0	1.933	2.919	4.9	21.8	9 8	22 23.43	-22 7.6	1.821	2.791	6.9	20.5
9 18	22 16.40	-16 13.3	1.966	2.904	8.6	22.0	9 18	22 14.92	-22 19.4	1.861	2.780	10.3	20.7
9 28	22 10.12	-16 31.4	2.023	2.889	12.0	22.2	9 28	22 8.21	-22 13.2	1.925	2.769	13.4	20.9
10 8	22 5.94	-16 35.1	2.102	2.874	14.8	22.3	10 8	22 3.86	-21 49.9	2.009	2.757	16.2	21.1
<b>83030</b>	2001 QC <sub>181</sub>		8 29.5 358°97	6.1/25.2	18		<b>115165</b>	2003 SL <sub>80</sub>		8 29.5 257°26	0.0/29.5	18	
7 30	22 50.74	-18 25.4	1.029	1.									

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>474025</b>	2016 <i>GO</i> <sub>125</sub>		8 29.5 285°44	1.2/30.3	17		<b>36998</b>	2000 <i>TC</i> <sub>21</sub>		8 29.5 137°01	2°9/26.2	18	
7 30	22 58.14	- 5 16.2	1.237	2.139	16.5	20.9	7 30	22 51.66	-15 6.6	2.118	3.025	10.3	18.9
8 9	22 51.95	- 5 26.1	1.179	2.138	11.9	20.6	8 9	22 46.66	-16 19.1	2.062	3.027	7.1	18.7
8 19	22 43.19	- 5 51.1	1.141	2.137	6.6	20.3	8 19	22 40.16	-17 34.5	2.032	3.029	4.0	18.5
8 29	22 32.91	- 6 26.4	1.126	2.136	1.4	20.0	8 29	22 32.82	-18 46.7	2.030	3.031	3.1	18.5
9 8	22 22.53	- 7 5.0	1.137	2.134	5.2	20.3	9 8	22 25.45	-19 49.2	2.056	3.033	5.7	18.6
9 18	22 13.48	- 7 39.7	1.172	2.133	10.6	20.6	9 18	22 18.83	-20 37.6	2.109	3.034	8.9	18.8
9 28	22 6.97	- 8 4.7	1.228	2.132	15.4	20.8	9 28	22 13.69	-21 9.1	2.186	3.036	11.8	19.0
10 8	22 3.65	- 8 16.2	1.304	2.131	19.3	21.1	10 8	22 10.51	-21 23.3	2.283	3.038	14.3	19.2
<b>158913</b>	Kreider		8 29.5 309°11	4°9/4.0	18		<b>162062</b>	1997 <i>EQ</i> <sub>16</sub>		8 29.5 75°65	2°1/31.6	18	
7 30	22 48.62	+ 8 36.2	2.020	2.855	13.8	19.6	7 30	22 52.46	+ 0 16.4	1.715	2.591	14.0	19.7
8 9	22 44.71	+ 8 3.9	1.926	2.834	11.1	19.4	8 9	22 47.33	- 0 34.6	1.665	2.608	10.2	19.5
8 19	22 39.22	+ 7 8.4	1.853	2.813	8.0	19.2	8 19	22 40.53	- 1 43.0	1.637	2.625	6.1	19.3
8 29	22 32.72	+ 5 51.2	1.806	2.793	5.5	19.0	8 29	22 32.85	- 3 3.6	1.635	2.642	2.4	19.1
9 8	22 25.98	+ 4 16.9	1.785	2.773	5.1	18.9	9 8	22 25.23	- 4 28.9	1.661	2.658	3.9	19.3
9 18	22 19.83	+ 2 32.4	1.792	2.753	7.6	19.0	9 18	22 18.59	- 5 51.4	1.714	2.675	7.8	19.6
9 28	22 15.07	+ 0 46.2	1.825	2.733	10.8	19.2	9 28	22 13.68	- 7 4.3	1.792	2.692	11.5	19.8
10 8	22 12.29	- 0 53.8	1.881	2.714	14.0	19.3	10 8	22 10.99	- 8 3.1	1.892	2.708	14.6	20.1
<b>391689</b>	2008 <i>AF</i> <sub>94</sub>		8 29.5 5°55	4°3/25.5	18		<b>290121</b>	2005 <i>QU</i> <sub>134</sub>		8 29.5 307°25	0°1/29.7	18	
7 30	22 49.85	-15 54.0	1.454	2.379	12.9	19.8	7 30	22 50.78	- 5 58.3	1.878	2.773	12.1	20.8
8 9	22 45.86	-17 22.8	1.407	2.379	9.0	19.5	8 9	22 46.28	- 6 42.4	1.800	2.758	8.6	20.6
8 19	22 39.87	-18 55.5	1.382	2.380	5.4	19.3	8 19	22 40.08	- 7 38.6	1.747	2.743	4.6	20.3
8 29	22 32.75	-20 22.3	1.383	2.382	4.6	19.3	8 29	22 32.83	- 8 42.2	1.719	2.729	0.3	19.9
9 8	22 25.61	-21 33.8	1.409	2.385	7.8	19.5	9 8	22 25.40	- 9 46.8	1.719	2.715	4.1	20.2
9 18	22 19.54	-22 23.8	1.458	2.389	11.7	19.7	9 18	22 18.68	-10 46.3	1.746	2.701	8.2	20.4
9 28	22 15.47	-22 49.4	1.529	2.393	15.3	20.0	9 28	22 13.52	-11 35.2	1.797	2.687	12.0	20.6
10 8	22 13.94	-22 51.2	1.618	2.399	18.2	20.2	10 8	22 10.49	-12 10.1	1.869	2.674	15.2	20.8
<b>100148</b>	1993 <i>TT</i> <sub>16</sub>		8 29.5 285°04	0°6/30.1	18		<b>71572</b>	2000 <i>DW</i> <sub>42</sub>		8 29.5 323°47	1°6/28.7	17	
7 30	22 51.72	- 4 32.4	1.845	2.735	12.5	19.9	7 30	23 2.93	-15 8.1	1.777	2.674	12.5	17.6
8 9	22 46.91	- 5 16.4	1.771	2.726	8.9	19.6	8 9	22 54.98	-14 35.1	1.690	2.649	8.9	17.4
8 19	22 40.37	- 6 13.6	1.721	2.716	4.9	19.4	8 19	22 44.74	-14 0.3	1.628	2.625	4.8	17.1
8 29	22 32.79	- 7 19.5	1.697	2.707	0.8	19.0	8 29	22 33.08	-13 20.5	1.593	2.602	1.6	16.8
9 8	22 25.06	- 8 27.6	1.701	2.697	4.0	19.3	9 8	22 21.15	-12 33.6	1.588	2.579	5.1	17.0
9 18	22 18.08	- 9 31.5	1.731	2.688	8.2	19.5	9 18	22 10.19	-11 38.6	1.610	2.556	9.5	17.2
9 28	22 12.71	-10 25.3	1.786	2.679	12.0	19.7	9 28	22 1.30	-10 36.0	1.657	2.535	13.6	17.4
10 8	22 9.53	-11 5.4	1.863	2.669	15.2	19.9	10 8	21 55.15	- 9 26.7	1.727	2.514	17.0	17.6
<b>523673</b>	2013 <i>MZ</i> <sub>11</sub>		8 29.5 324°25	0°2/27.6	17		<b>487927</b>	2015 <i>TZ</i> <sub>206</sub>		8 29.5 307°60	1°1/28.3	17	
7 30	22 36.82	-13 54.5	18.611	19.506	1.4	21.0	7 30	22 49.91	- 9 20.7	2.169	3.069	10.5	21.9
8 9	22 35.49	-14 2.7	18.536	19.496	1.0	20.9	8 9	22 45.45	-10 20.8	2.100	3.062	7.3	21.7
8 19	22 34.02	-14 11.3	18.488	19.485	0.5	20.9	8 19	22 39.55	-11 28.9	2.056	3.055	3.7	21.4
8 29	22 32.48	-14 19.7	18.469	19.475	0.3	20.8	8 29	22 32.80	-12 39.7	2.040	3.049	1.1	21.2
9 8	22 30.94	-14 27.6	18.480	19.465	0.6	20.9	9 8	22 25.96	-13 47.3	2.052	3.043	4.2	21.5
9 18	22 29.46	-14 34.7	18.520	19.455	1.1	20.9	9 18	22 19.78	-14 46.3	2.092	3.037	7.8	21.7
9 28	22 28.10	-14 40.6	18.588	19.445	1.6	21.0	9 28	22 14.95	-15 32.7	2.156	3.030	11.0	21.9
10 8	22 26.93	-14 45.0	18.681	19.435	2.0	21.0	10 8	22 11.97	-16 4.2	2.243	3.025	13.7	22.0
<b>391542</b>	2007 <i>SA</i> <sub>19</sub>		8 29.5 248°44	13°3/23.5	15		<b>114552</b>	2003 <i>BF</i> <sub>38</sub>		8 29.5 292°68	4°2/23.6	18	
7 30	23 16.50	-36 22.0	1.160	2.050	18.2	20.8	7 30	22 49.54	-21 4.1	2.582	3.491	8.6	19.4
8 9	23 5.53	-37 13.6	1.109	2.040	15.4	20.6	8 9	22 45.07	-22 27.7	2.524	3.485	6.3	19.2
8 19	22 50.53	-37 39.6	1.079	2.029	13.5	20.5	8 19	22 39.31	-23 50.5	2.492	3.478	4.4	19.1
8 29	22 33.30	-37 25.4	1.070	2.018	13.6	20.5	8 29	22 32.79	-25 6.3	2.489	3.472	4.5	19.1
9 8	22 16.38	-36 24.2	1.084	2.006	15.8	20.5	9 8	22 26.20	-26 9.8	2.514	3.465	6.4	19.2
9 18	22 2.11	-34 39.6	1.119	1.995	19.0	20.7	9 18	22 20.18	-26 57.5	2.565	3.459	8.8	19.3
9 28	21 52.07	-32 22.1	1.173	1.982	22.4	20.9	9 28	22 15.37	-27 27.5	2.640	3.453	11.1	19.5
10 8	21 46.75	-29 44.0	1.243	1.970	25.3	21.1	10 8	22 12.23	-27 39.7	2.736	3.446	13.1	19.6
<b>45908</b>	2000 <i>YE</i> <sub>51</sub>		8 29.5 133°97	3°4/26.6	18 R		<b>85581</b>	1998 <i>DZ</i> <sub>20</sub>		8 29.5 7°01	0°1/29.5	18	
7 30	22 57.57	-15 8.1	1.624	2.533	12.8	19.1	7 30	23 0.51	-11 5.4	1.232	2.143	15.9	16.8
8 9	22 51.03	-16 16.7	1.578	2.544	8.9	18.9	8 9	22 53.55	-10 29.2	1.178	2.143	11.2	16.5
8 19	22 42.51	-17 28.2	1.557	2.554	5.0	18.7	8 19	22 44.01	- 9 57.8	1.146	2.145	5.9	16.2
8 29	22 32.93	-18 34.5	1.561	2.563	3.6	18.7	8 29	22 33.04	- 9 28.3	1.137	2.147	0.3	15.8
9 8	22 23.42	-19 28.1	1.593	2.572	6.7	18.9	9 8	22 22.14	- 8 57.5	1.154	2.151	5.4	16.2
9 18	22 15.09	-20 4.0	1.650	2.581	10.6	19.1	9 18	22 12.76	- 8 23.3	1.195	2.155	10.6	16.5
9 28	22 8.84	-20 20.2	1.731	2.589	14.0	19.4	9 28	22 6.04	- 7 43.9	1.259	2.161	15.2	16.8
10 8	22 5.17	-20 17.3	1.831	2.596	16.9	19.6	10 8	22 2.56	- 6 58.6	1.341	2.168	19.0	17.1
<b>314074</b>	2005 <i>CP</i> <sub>10</sub>		8 29.5 138°86	2°4/27.7	17		<b>77065</b>	2001 <i>DU</i> <sub>20</sub>		8 29.5 27°41	8°7/21.3	18 R	
7 30	22 57.86	-12 43.1	1.512	2.420	13.6	20.9	7 30	22 52.00	-25 53.5	1.355	2.281	13.6	17.5
8 9	22 51.36	-13 33.5	1.461	2.426	9.4	20.7	8 9	22 47.52	-27 57.9	1.328	2.291	10.5	17.4
8 19	22 42.74	-14 29.6	1.433	2.432	5.0	20.4	8 19	22 40.80	-29 52.4	1.325	2.301	8.8	17.3
8 29	22 32.94	-15 24.0	1.431	2.438	2.5	20.3	8 29	22 32.89	-31 24.8	1.345	2.313	9.4	17.4
9 8	22 23.19	-16 9.2	1.456	2.443	6.1	20.5	9 8	22 25.10	-32 26.5	1.389	2.325	11.9	17.6
9 18	22 14.65	-16 39.9	1.506	2.448	10.4	20.8	9 18	22 18.65	-32 54.4	1.454	2.338	14.9	17.8
9 28	22 8.30	-16 53.4	1.579	2.453	14.3	21.0	9 28	22 14.52	-32 49.8	1.538	2.351	17.7	18.0
10 8	22 4.69	-16 49.4	1.671	2.457	17.5	21.3	10 8	22 13.19	-32 17.4	1.637	2.365	20.0	18.2
<b>204921</b>	2008 <i>SE</i> <sub>173</sub>		8 29.5 172°55	1°1/30.6	17		<b>189493</b>	1999 <i>XL</i>					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>52990</b>	1998 <i>UP</i> <sub>24</sub>		8 29.5 328°10		0°6/29.1	18	<b>257757</b>	2000 <i>BG</i> <sub>28</sub>		8 29.5 276°58		0°2/29.7	18
7 30	22 52.29	- 7 38.6	1.270	2.184	15.3	18.5	7 30	22 56.88	- 6 57.8	1.588	2.483	13.8	20.4
8 9	22 47.91	- 8 24.9	1.205	2.173	10.8	18.2	8 9	22 50.98	- 7 20.5	1.502	2.460	9.9	20.1
8 19	22 41.15	- 9 26.0	1.162	2.162	5.6	17.9	8 19	22 42.79	- 7 55.3	1.440	2.437	5.4	19.8
8 29	22 32.92	-10 34.7	1.142	2.152	0.6	17.5	8 29	22 33.07	- 8 37.6	1.403	2.413	0.4	19.3
9 8	22 24.49	-11 41.8	1.147	2.143	5.6	17.8	9 8	22 22.95	- 9 21.2	1.392	2.388	4.8	19.6
9 18	22 17.16	-12 38.5	1.176	2.134	10.9	18.1	9 18	22 13.65	- 9 59.7	1.408	2.364	9.8	19.8
9 28	22 12.10	-13 18.4	1.226	2.126	15.6	18.3	9 28	22 6.32	-10 27.7	1.447	2.339	14.3	20.1
10 8	22 10.00	-13 38.4	1.294	2.119	19.6	18.6	10 8	22 1.75	-10 42.0	1.506	2.313	18.1	20.3
<b>92823</b>	2000 <i>QM</i> <sub>177</sub>		8 29.5 291°66		3°2/1.5	18	<b>372883</b>	2010 <i>XZ</i> <sub>83</sub>		8 29.6 274°96		2°6/27.4	18
7 30	22 51.72	+ 2 21.3	1.627	2.499	14.8	19.9	7 30	22 54.27	-11 28.7	1.446	2.359	13.8	21.3
8 9	22 47.11	+ 1 44.5	1.554	2.492	11.2	19.6	8 9	22 49.16	-12 42.5	1.380	2.348	9.6	21.0
8 19	22 40.60	+ 0 46.1	1.502	2.484	7.2	19.4	8 19	22 41.79	-14 6.7	1.336	2.336	5.1	20.7
8 29	22 32.91	- 0 30.1	1.474	2.477	3.6	19.2	8 29	22 33.02	-15 32.6	1.319	2.325	2.7	20.5
9 8	22 25.04	- 1 57.4	1.474	2.470	4.5	19.2	9 8	22 24.02	-16 50.3	1.326	2.314	6.6	20.7
9 18	22 18.01	- 3 27.3	1.499	2.463	8.5	19.4	9 18	22 16.04	-17 51.7	1.359	2.302	11.3	21.0
9 28	22 12.78	- 4 51.3	1.549	2.456	12.5	19.6	9 28	22 10.18	-18 31.9	1.414	2.291	15.5	21.2
10 8	22 9.95	- 6 2.6	1.620	2.449	16.1	19.9	10 8	22 7.13	-18 49.4	1.487	2.279	19.0	21.4
<b>218415</b>	2004 <i>RC</i> <sub>97</sub>		8 29.5 281°19		3°4/1.9	18	<b>522840</b>	2016 <i>NL</i> <sub>84</sub>		8 29.6 254°95		4°1/25.9	18
7 30	22 52.30	+ 2 29.2	2.214	3.069	12.1	20.1	7 30	22 55.69	-17 59.0	1.804	2.714	11.7	21.0
8 9	22 47.12	+ 2 30.2	2.135	3.061	9.2	19.9	8 9	22 49.81	-18 58.2	1.739	2.704	8.3	20.7
8 19	22 40.46	+ 2 17.0	2.079	3.054	6.2	19.7	8 19	22 42.00	-19 58.5	1.699	2.694	5.1	20.5
8 29	22 32.92	+ 1 50.9	2.049	3.046	3.7	19.5	8 29	22 33.02	-20 52.7	1.686	2.683	4.3	20.5
9 8	22 25.24	+ 1 15.3	2.047	3.038	4.1	19.5	9 8	22 23.93	-21 34.0	1.699	2.672	7.0	20.6
9 18	22 18.19	+ 0 34.3	2.072	3.031	6.9	19.7	9 18	22 15.75	-21 57.9	1.738	2.662	10.6	20.8
9 28	22 12.50	- 0 7.1	2.124	3.023	10.0	19.9	9 28	22 9.41	-22 2.6	1.801	2.650	14.0	21.0
10 8	22 8.68	- 0 44.5	2.198	3.016	12.8	20.1	10 8	22 5.52	-21 48.5	1.882	2.639	16.8	21.2
<b>178476</b>	1999 <i>RK</i> <sub>177</sub>		8 29.5 9°29		3°6/27.7	18	<b>392327</b>	2010 <i>EF</i> <sub>87</sub>		8 29.6 214°65		3°5/2.4	18
7 30	22 58.54	-18 30.5	1.365	2.283	14.1	18.5	7 30	22 51.80	+ 4 49.8	2.018	2.867	13.3	21.1
8 9	22 51.94	-18 19.3	1.318	2.286	10.0	18.2	8 9	22 46.89	+ 4 9.7	1.940	2.863	10.2	20.9
8 19	22 43.08	-18 5.2	1.294	2.291	5.7	18.0	8 19	22 40.39	+ 3 9.8	1.885	2.859	6.9	20.7
8 29	22 33.05	-17 43.1	1.294	2.297	3.7	17.9	8 29	22 32.94	+ 1 53.0	1.857	2.854	4.0	20.5
9 8	22 23.22	-17 9.4	1.319	2.305	6.8	18.1	9 8	22 25.36	+ 0 24.9	1.856	2.849	4.2	20.5
9 18	22 14.86	-16 23.3	1.368	2.314	11.0	18.4	9 18	22 18.48	- 1 7.5	1.883	2.844	7.3	20.7
9 28	22 8.93	-15 25.4	1.441	2.324	14.8	18.7	9 28	22 13.07	- 2 36.7	1.937	2.838	10.7	20.9
10 8	22 5.93	-14 17.7	1.532	2.335	18.1	18.9	10 8	22 9.68	- 3 56.4	2.013	2.833	13.8	21.1
<b>166484</b>	2002 <i>PT</i> <sub>138</sub>		8 29.5 10°08		2°9/28.1	18	<b>137102</b>	1998 <i>YL</i> <sub>19</sub>		8 29.6 109°57		2°7/31.7	17
7 30	23 1.45	-16 58.3	1.425	2.335	14.2	18.3	7 30	22 56.96	- 0 56.2	1.671	2.546	14.3	19.9
8 9	22 53.97	-16 44.1	1.372	2.337	9.9	18.1	8 9	22 50.60	- 0 59.7	1.614	2.556	10.6	19.6
8 19	22 44.16	-16 28.3	1.341	2.339	5.5	17.8	8 19	22 42.36	- 1 18.5	1.580	2.566	6.5	19.4
8 29	22 33.11	-16 6.2	1.336	2.342	2.9	17.7	8 29	22 33.07	- 1 49.5	1.571	2.575	3.0	19.2
9 8	22 22.21	-15 34.3	1.358	2.346	6.3	17.9	9 8	22 23.80	- 2 27.9	1.589	2.585	4.3	19.4
9 18	22 12.75	-14 51.5	1.405	2.351	10.7	18.2	9 18	22 15.57	- 3 7.9	1.634	2.594	8.3	19.6
9 28	22 5.77	-13 58.0	1.475	2.356	14.7	18.4	9 28	22 9.28	- 3 44.0	1.703	2.603	12.0	19.9
10 8	22 1.79	-12 55.5	1.564	2.362	18.0	18.7	10 8	22 5.44	- 4 12.0	1.794	2.611	15.3	20.1
<b>204590</b>	2005 <i>GB</i> <sub>90</sub>		8 29.5 178°26		5°6/22.8	18	<b>18931</b>	2000 <i>QX</i> <sub>31</sub>		8 29.6 318°55		3°3/26.4	18
7 30	22 54.97	-25 16.5	2.350	3.253	9.6	20.5	7 30	22 50.54	-14 2.7	1.631	2.548	12.2	18.1
8 9	22 48.95	-26 39.0	2.302	3.254	7.3	20.4	8 9	22 46.47	-15 16.9	1.552	2.521	8.6	17.8
8 19	22 41.39	-27 56.5	2.281	3.256	5.7	20.3	8 19	22 40.38	-16 39.2	1.496	2.495	4.8	17.6
8 29	22 32.97	-29 2.2	2.288	3.256	6.0	20.3	8 29	22 32.98	-18 1.5	1.466	2.469	3.5	17.4
9 8	22 24.52	-29 50.8	2.321	3.256	7.8	20.4	9 8	22 25.25	-19 15.0	1.462	2.444	6.9	17.6
9 18	22 16.86	-30 19.3	2.381	3.256	10.2	20.6	9 18	22 18.29	-20 12.4	1.483	2.419	11.1	17.8
9 28	22 10.72	-30 27.4	2.464	3.255	12.5	20.8	9 28	22 13.13	-20 48.7	1.526	2.394	15.0	17.9
10 8	22 6.58	-30 16.6	2.566	3.254	14.4	20.9	10 8	22 10.48	-21 2.4	1.587	2.371	18.4	18.1
<b>425522</b>	2010 <i>MS</i> <sub>26</sub>		8 29.5 337°17		0°4/29.8	17	<b>240955</b>	2006 <i>HK</i> <sub>44</sub>		8 29.6 196°80		1°2/30.8	18
7 30	22 53.18	- 6 52.5	1.048	1.968	17.2	20.3	7 30	22 53.85	- 3 8.0	2.131	3.007	11.6	21.0
8 9	22 48.90	- 7 7.6	0.987	1.956	12.3	20.0	8 9	22 48.23	- 3 41.0	2.059	3.005	8.4	20.8
8 19	22 41.83	- 7 38.6	0.945	1.945	6.7	19.6	8 19	22 41.07	- 4 26.0	2.011	3.002	4.8	20.6
8 29	22 33.00	- 8 19.7	0.925	1.934	0.6	19.2	8 29	22 33.02	- 5 19.3	1.990	2.999	1.4	20.4
9 8	22 23.93	- 9 2.3	0.927	1.926	5.8	19.5	9 8	22 24.86	- 6 15.8	1.999	2.995	3.5	20.5
9 18	22 16.18	- 9 38.2	0.951	1.918	11.7	19.8	9 18	22 17.41	- 7 10.4	2.035	2.991	7.2	20.7
9 28	22 11.12	-10 0.5	0.996	1.911	17.0	20.1	9 28	22 11.42	- 7 58.1	2.097	2.986	10.6	21.0
10 8	22 9.48	-10 5.4	1.057	1.905	21.4	20.4	10 8	22 7.41	- 8 35.6	2.182	2.981	13.5	21.1
<b>375224</b>	2008 <i>FG</i> <sub>54</sub>		8 29.5 100°71		2°2/27.8	17	<b>361892</b>	2008 <i>FO</i> <sub>116</sub>		8 29.6 104°38		3°8/25.8	18
7 30	22 56.82	-12 17.3	1.517	2.426	13.6	21.1	7 30	22 55.09	-19 57.5	2.196	3.101	10.1	20.8
8 9	22 50.63	-13 6.9	1.469	2.435	9.4	20.9	8 9	22 48.99	-20 38.9	2.146	3.107	7.2	20.6
8 19	22 42.39	-14 2.4	1.445	2.444	4.9	20.7	8 19	22 41.41	-21 18.1	2.123	3.114	4.6	20.5
8 29	22 33.04	-14 56.5	1.446	2.453	2.3	20.5	8 29	22 33.03	-21 49.9	2.126	3.120	4.0	20.5
9 8	22 23.76	-15 42.1	1.473	2.461	5.9	20.8	9 8	22 24.72	-22 10.0	2.158	3.126	6.1	20.6
9 18	22 15.69	-16 13.7	1.526	2.470	10.2	21.0	9 18	22 17.28	-22 15.9	2.216	3.133	9.0	20.8
9 28	22 9.75	-16 28.7	1.602	2.478	14.0	21.3	9 28	22 11.41	-22 6.8	2.298	3.139	11.7	21.0
10 8	22 6.47	-16 26.5	1.697	2.486	17.2	21.5	10 8	22 7.55	-21 43.5	2.402	3.145	14.0	21.2
<b>219620</b>	2001 <i>TM</i> <sub>131</sub>		8 29.5 307°77		7°1/24.1	18	<b>212853</b>	2007 <i>VS</i> <sub>63</sub>					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>77674</b>	2001 <i>ML</i> <sub>20</sub>		8 29.6 106°34	6°1/23.2	18		<b>480667</b>	2015 <i>OU</i> <sub>66</sub>		8 29.6 94°86	1°0/30.6	18	
7 30	22 55.27	-24 47.0	1.978	2.887	10.9	19.2	7 30	22 52.56	-3 40.1	1.893	2.778	12.5	21.3
8 9	22 49.28	-26 8.6	1.942	2.898	8.2	19.0	8 9	22 47.45	-4 16.0	1.829	2.780	8.9	21.1
8 19	22 41.61	-27 24.0	1.932	2.910	6.3	18.9	8 19	22 40.72	-5 4.8	1.789	2.782	5.0	20.9
8 29	22 33.05	-28 25.5	1.948	2.921	6.5	19.0	8 29	22 33.05	-6 2.0	1.775	2.784	1.2	20.6
9 8	22 24.57	-29 7.6	1.990	2.932	8.5	19.1	9 8	22 25.33	-7 1.8	1.789	2.786	3.7	20.8
9 18	22 17.10	-29 27.7	2.057	2.942	11.1	19.3	9 18	22 18.42	-7 58.3	1.830	2.788	7.7	21.1
9 28	22 11.42	-29 25.7	2.146	2.953	13.6	19.5	9 28	22 13.10	-8 46.4	1.896	2.790	11.3	21.3
10 8	22 7.98	-29 4.1	2.254	2.963	15.7	19.7	10 8	22 9.89	-9 22.6	1.983	2.791	14.4	21.5
<b>39046</b>	2000 <i>UZ</i> <sub>94</sub>		8 29.6 70°52	8°4/6.4	18		<b>73617</b>	2437 <i>T</i> <sub>-3</sub>		8 29.6 229°63	0°1/29.7	18	
7 30	22 54.98	+13 52.2	1.647	2.456	17.5	18.1	7 30	22 55.17	-7 8.6	2.180	3.065	11.0	20.3
8 9	22 49.30	+14 20.1	1.592	2.471	14.6	17.9	8 9	22 49.20	-7 34.4	2.101	3.055	7.8	20.1
8 19	22 41.71	+14 20.3	1.555	2.486	11.6	17.7	8 19	22 41.64	-8 8.6	2.048	3.044	4.2	19.8
8 29	22 33.06	+13 52.4	1.541	2.501	9.2	17.6	8 29	22 33.11	-8 47.6	2.022	3.032	0.3	19.5
9 8	22 24.40	+12 59.7	1.551	2.516	8.4	17.6	9 8	22 24.44	-9 26.6	2.025	3.020	3.7	19.8
9 18	22 16.77	+11 48.8	1.586	2.531	9.8	17.8	9 18	22 16.44	-10 1.4	2.057	3.008	7.5	20.0
9 28	22 11.08	+10 28.7	1.645	2.546	12.3	17.9	9 28	22 9.90	-10 28.3	2.114	2.995	10.9	20.2
10 8	22 7.85	+9 8.3	1.726	2.561	15.0	18.2	10 8	22 5.36	-10 44.7	2.193	2.982	13.8	20.4
<b>137840</b>	2000 <i>AX</i> <sub>32</sub>		8 29.6 289°58	0°1/29.7	18		<b>446808</b>	1999 <i>VP</i> <sub>129</sub>		8 29.6 325°89	4°6/3.5	18	
7 30	22 56.25	-7 15.4	1.440	2.342	14.6	19.4	7 30	22 50.80	+6 38.7	2.111	2.950	13.1	21.7
8 9	22 50.63	-7 34.5	1.364	2.325	10.4	19.1	8 9	22 46.16	+6 31.7	2.035	2.947	10.4	21.6
8 19	22 42.65	-8 5.9	1.310	2.308	5.6	18.8	8 19	22 40.04	+6 6.2	1.981	2.943	7.4	21.4
8 29	22 33.12	-8 44.6	1.280	2.290	0.4	18.3	8 29	22 33.03	+5 23.7	1.952	2.940	5.0	21.2
9 8	22 23.28	-9 24.1	1.277	2.273	5.0	18.6	9 8	22 25.90	+4 27.7	1.950	2.937	4.9	21.2
9 18	22 14.41	-9 57.9	1.298	2.256	10.2	18.9	9 18	22 19.44	+3 23.6	1.975	2.934	7.2	21.3
9 28	22 7.69	-10 20.6	1.342	2.239	14.8	19.1	9 28	22 14.37	+2 17.6	2.026	2.931	10.1	21.5
10 8	22 3.88	-10 29.1	1.405	2.222	18.7	19.3	10 8	22 11.20	+1 15.6	2.100	2.928	13.0	21.7
<b>91074</b>	1998 <i>FT</i> <sub>90</sub>		8 29.6 134°92	5°2/25.6	18		<b>161805</b>	2006 <i>VQ</i> <sub>89</sub>		8 29.6 40°30	2°7/27.8	17	
7 30	23 0.45	-22 38.6	1.826	2.730	11.9	19.3	7 30	22 56.65	-13 5.9	1.224	2.143	15.3	19.5
8 9	22 52.96	-23 16.7	1.779	2.736	8.6	19.1	8 9	22 50.83	-13 46.7	1.182	2.152	10.6	19.3
8 19	22 43.56	-23 49.6	1.756	2.743	5.9	19.0	8 19	22 42.63	-14 33.1	1.162	2.163	5.6	19.1
8 29	22 33.17	-24 10.6	1.760	2.749	5.4	19.0	8 29	22 33.17	-15 17.0	1.166	2.173	2.8	18.9
9 8	22 22.91	-24 15.1	1.791	2.754	7.6	19.1	9 8	22 23.86	-15 50.4	1.195	2.184	6.7	19.2
9 18	22 13.86	-24 1.2	1.848	2.760	10.8	19.3	9 18	22 16.03	-16 8.2	1.247	2.196	11.4	19.5
9 28	22 6.87	-23 29.5	1.929	2.765	13.7	19.5	9 28	22 10.71	-16 7.9	1.320	2.208	15.6	19.8
10 8	22 2.43	-22 42.5	2.029	2.770	16.3	19.7	10 8	22 8.40	-15 49.9	1.411	2.220	19.1	20.1
<b>78603</b>	2002 <i>SZ</i> <sub>32</sub>		8 29.6 251°04	1°6/31.0	18		<b>295607</b>	2008 <i>SD</i> <sub>185</sub>		8 29.6 162°74	0°9/30.4	18	
7 30	22 54.03	-2 54.3	2.141	3.015	11.6	20.1	7 30	22 56.11	-5 14.7	1.916	2.800	12.4	20.6
8 9	22 48.44	-3 10.2	2.058	3.002	8.5	19.8	8 9	22 49.92	-5 30.3	1.852	2.803	8.9	20.4
8 19	22 41.24	-3 37.7	1.999	2.989	5.0	19.6	8 19	22 42.01	-5 56.2	1.812	2.805	4.9	20.1
8 29	22 33.06	-4 14.0	1.967	2.975	1.8	19.4	8 29	22 33.14	-6 28.8	1.799	2.808	1.1	19.9
9 8	22 24.69	-4 54.9	1.964	2.960	3.6	19.5	9 8	22 24.23	-7 3.4	1.814	2.810	3.8	20.1
9 18	22 16.97	-5 35.8	1.989	2.946	7.2	19.7	9 18	22 16.20	-7 35.3	1.856	2.812	7.8	20.3
9 28	22 10.68	-6 12.1	2.039	2.931	10.7	19.9	9 28	22 9.85	-8 0.4	1.923	2.813	11.4	20.6
10 8	22 6.38	-6 40.3	2.112	2.916	13.7	20.0	10 8	22 5.70	-8 16.0	2.013	2.814	14.4	20.8
<b>516423</b>	2003 <i>JC</i> <sub>11</sub>		8 29.6 190°76	5°5/20.0	18		<b>183122</b>	2002 <i>RX</i> <sub>174</sub>		8 29.6 340°36	2°2/30.9	18	
7 30	22 55.61	-34 7.3	3.687	4.561	7.2	25.2	7 30	22 52.15	-3 50.4	1.072	1.985	17.5	19.6
8 9	22 49.07	-35 12.7	3.641	4.559	6.1	25.1	8 9	22 48.18	-3 48.3	1.008	1.972	12.8	19.2
8 19	22 41.40	-36 10.0	3.623	4.556	5.5	25.0	8 19	22 41.51	-4 4.9	0.963	1.959	7.5	18.9
8 29	22 33.08	-36 55.1	3.632	4.552	5.9	25.1	8 29	22 33.13	-4 36.3	0.940	1.948	2.5	18.6
9 8	22 24.71	-37 24.9	3.670	4.547	7.0	25.1	9 8	22 24.47	-5 15.6	0.939	1.939	5.4	18.7
9 18	22 16.89	-37 38.4	3.733	4.541	8.3	25.2	9 18	22 17.04	-5 54.7	0.961	1.930	11.1	19.0
9 28	22 10.17	-37 35.4	3.820	4.535	9.7	25.3	9 28	22 12.19	-6 25.5	1.002	1.923	16.3	19.3
10 8	22 4.94	-37 17.7	3.926	4.528	10.9	25.4	10 8	22 10.66	-6 42.7	1.061	1.918	20.7	19.6
<b>443299</b>	2014 <i>FK</i> <sub>20</sub>		8 29.6 1°80	3°1/1.1	18		<b>5923</b>	Liedeke		8 29.6 105°67	1°4/28.2	18	
7 30	22 53.74	+0 8.6	1.599	2.477	14.7	20.6	7 30	22 53.09	-10 52.4	1.960	2.862	11.3	17.1
8 9	22 48.52	+0 4.5	1.534	2.477	11.0	20.4	8 9	22 47.79	-11 39.3	1.901	2.863	7.8	16.9
8 19	22 41.37	+0 16.7	1.492	2.477	6.9	20.2	8 19	22 40.89	-12 32.6	1.866	2.865	4.0	16.7
8 29	22 33.08	+0 52.5	1.473	2.477	3.5	19.9	8 29	22 33.09	-13 26.8	1.858	2.866	1.5	16.5
9 8	22 24.69	+1 37.7	1.481	2.477	4.5	20.0	9 8	22 25.25	-14 16.0	1.878	2.868	4.6	16.8
9 18	22 17.25	+2 25.9	1.515	2.478	8.5	20.3	9 18	22 18.24	-14 55.6	1.925	2.869	8.4	17.0
9 28	22 11.70	+3 10.8	1.572	2.479	12.4	20.5	9 28	22 12.81	-15 22.1	1.996	2.871	11.7	17.2
10 8	22 8.61	+3 47.2	1.651	2.480	15.8	20.7	10 8	22 9.47	-15 34.2	2.089	2.872	14.5	17.4
<b>478790</b>	2012 <i>UZ</i> <sub>146</sub>		8 29.6 335°70	2°8/27.6	18		<b>220834</b>	2004 <i>TQ</i> <sub>366</sub>		8 29.6 337°16	3°4/2.1	18	
7 30	22 54.79	-14 4.9	1.409	2.326	13.8	20.8	7 30	22 48.04	+3 16.1	1.740	2.610	14.1	19.5
8 9	22 49.52	-14 38.5	1.348	2.317	9.7	20.5	8 9	22 44.51	+2 42.3	1.660	2.596	10.8	19.3
8 19	22 41.99	-15 16.9	1.309	2.308	5.2	20.2	8 19	22 39.29	+1 47.3	1.603	2.583	7.1	19.0
8 29	22 33.11	-15 53.0	1.294	2.301	2.9	20.1	8 29	22 33.00	+0 34.1	1.570	2.571	3.9	18.8
9 8	22 24.12	-16 19.9	1.305	2.293	6.5	20.3	9 8	22 26.53	-0 51.2	1.563	2.559	4.4	18.8
9 18	22 16.26	-16 32.5	1.340	2.287	11.0	20.5	9 18	22 20.78	-2 20.9	1.583	2.549	7.9	19.0
9 28	22 10.61	-16 28.1	1.397	2.281	15.2	20.8	9 28	22 16.60	-3 46.7	1.627	2.539	11.7	19.2
10 8	22 7.78	-16 6.5	1.472	2.276	18.7	21.0	10 8	22 14.59	-5 1.6	1.693	2.530	15.2	19.4
<b>80849</b>	2000 <i>DM</i> <sub>20</sub>		8 29.6 321°79	1°3/30.5	18		<b>511731</b>	2015 <i>DZ</i> <sub>33</sub>		8 29.6 354°50	1°8/28.1	17	
7 30	22 52.26	-4 4.6											

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>434199</b>	2003 <i>OW</i>		8 29.6	15°38'	19°7'/20.3	18	<b>203030</b>	2000 <i>BM</i> <sub>1</sub>		8 29.6	177°15'	1°2'/28.4	18
7 30	22 53.92	+31 57.4	1.264	1.976	26.4	19.4	7 30	22 53.74	-10 5.1	2.021	2.919	11.2	20.9
8 9	22 49.48	+34 26.8	1.220	1.984	24.7	19.3	8 9	22 48.24	-10 54.6	1.959	2.919	7.8	20.7
8 19	22 42.24	+36 12.5	1.189	1.993	23.0	19.2	8 19	22 41.15	-11 51.2	1.922	2.920	4.0	20.5
8 29	22 33.18	+37 5.7	1.171	2.005	21.4	19.1	8 29	22 33.15	-12 49.5	1.912	2.921	1.2	20.3
9 8	22 23.78	+37 3.4	1.167	2.017	20.3	19.1	9 8	22 25.11	-13 43.5	1.930	2.921	4.5	20.5
9 18	22 15.68	+36 9.1	1.178	2.032	19.7	19.1	9 18	22 17.86	-14 28.4	1.976	2.921	8.2	20.8
9 28	22 10.30	+34 32.9	1.206	2.047	19.9	19.2	9 28	22 12.16	-15 0.6	2.047	2.920	11.5	21.0
10 8	22 8.44	+32 29.7	1.249	2.065	20.7	19.3	10 8	22 8.52	-15 18.4	2.139	2.920	14.3	21.2
<b>193442</b>	2000 <i>WC</i> <sub>129</sub>		8 29.6	238°31'	1°5'/30.9	18	<b>342205</b>	2008 <i>ST</i> <sub>225</sub>		8 29.6	39°24'	0°3'/29.3	16
7 30	22 54.81	- 2 49.3	1.996	2.873	12.3	20.8	7 30	22 54.22	- 7 38.4	1.362	2.270	14.8	21.0
8 9	22 49.09	- 3 11.5	1.916	2.861	9.0	20.6	8 9	22 48.97	- 8 14.9	1.318	2.282	10.4	20.8
8 19	22 41.65	- 3 46.6	1.860	2.850	5.2	20.4	8 19	22 41.63	- 9 3.0	1.295	2.294	5.4	20.5
8 29	22 33.15	- 4 31.2	1.830	2.838	1.7	20.1	8 29	22 33.18	- 9 56.0	1.296	2.306	0.4	20.2
9 8	22 24.46	- 5 20.6	1.828	2.825	3.7	20.2	9 8	22 24.83	-10 46.4	1.323	2.319	5.0	20.6
9 18	22 16.47	- 6 9.3	1.854	2.812	7.7	20.4	9 18	22 17.72	-11 27.5	1.375	2.333	9.7	20.9
9 28	22 10.04	- 6 52.3	1.906	2.799	11.3	20.6	9 28	22 12.78	-11 54.8	1.449	2.347	13.9	21.2
10 8	22 5.74	- 7 25.7	1.980	2.785	14.5	20.8	10 8	22 10.53	-12 6.3	1.543	2.361	17.3	21.4
<b>479119</b>	2013 <i>BN</i> <sub>19</sub>		8 29.6	252°80'	0°8'/30.5	18	<b>153691</b>	2001 <i>UY</i> <sub>15</sub>		8 29.6	201°47'	3°7'/1.8	17
7 30	22 52.35	- 3 32.2	2.138	3.018	11.5	22.0	7 30	22 55.27	+ 2 30.7	1.782	2.643	14.2	20.0
8 9	22 47.30	- 4 17.9	2.054	3.003	8.3	21.7	8 9	22 49.52	+ 2 25.2	1.711	2.641	10.9	19.8
8 19	22 40.69	- 5 16.5	1.995	2.988	4.6	21.5	8 19	22 41.91	+ 2 1.9	1.662	2.639	7.2	19.5
8 29	22 33.10	- 6 24.0	1.963	2.972	1.0	21.2	8 29	22 33.20	+ 1 22.7	1.638	2.637	4.1	19.3
9 8	22 25.31	- 7 34.7	1.960	2.956	3.5	21.4	9 8	22 24.35	+ 0 32.3	1.641	2.634	4.7	19.4
9 18	22 18.14	- 8 42.8	1.985	2.940	7.4	21.6	9 18	22 16.36	- 0 23.3	1.671	2.632	8.1	19.6
9 28	22 12.35	- 9 42.7	2.035	2.923	10.9	21.8	9 28	22 10.11	- 1 17.6	1.726	2.628	11.7	19.8
10 8	22 8.51	-10 30.7	2.108	2.907	13.9	21.9	10 8	22 6.19	- 2 5.0	1.803	2.625	15.0	20.0
<b>386849</b>	2010 <i>LC</i> <sub>128</sub>		8 29.6	119°06'	6°4'/23.7	16	<b>60346</b>	2000 <i>AB</i> <sub>77</sub>		8 29.6	326°62'	0°8'/30.3	18
7 30	22 58.18	-26 7.4	1.942	2.846	11.3	21.3	7 30	22 50.33	- 5 3.6	1.644	2.543	13.3	18.7
8 9	22 51.35	-27 10.7	1.905	2.857	8.6	21.2	8 9	22 46.32	- 5 28.6	1.558	2.516	9.6	18.4
8 19	22 42.74	-28 6.3	1.892	2.868	6.6	21.1	8 19	22 40.36	- 6 7.5	1.494	2.490	5.4	18.1
8 29	22 33.21	-28 46.9	1.906	2.878	6.7	21.1	8 29	22 33.12	- 6 56.4	1.455	2.464	1.0	17.7
9 8	22 23.83	-29 7.7	1.946	2.888	8.6	21.2	9 8	22 25.55	- 7 49.2	1.442	2.440	4.3	17.9
9 18	22 15.57	-29 6.8	2.011	2.897	11.2	21.4	9 18	22 18.70	- 8 39.5	1.454	2.416	8.9	18.1
9 28	22 9.24	-28 45.1	2.098	2.907	13.8	21.6	9 28	22 13.57	- 9 21.0	1.490	2.393	13.2	18.3
10 8	22 5.30	-28 5.4	2.204	2.916	15.9	21.8	10 8	22 10.85	- 9 49.3	1.546	2.371	16.9	18.5
<b>361055</b>	2005 <i>YK</i> <sub>57</sub>		8 29.6	347°67'	2°2'/27.5	18	<b>48328</b>	2002 <i>NN</i> <sub>53</sub>		8 29.6	352°34'	0°0'/29.6	18
7 30	22 52.26	-13 31.2	1.899	2.808	11.3	20.4	7 30	22 53.61	- 7 13.4	1.580	2.481	13.5	19.4
8 9	22 47.29	-14 13.7	1.839	2.804	7.8	20.2	8 9	22 48.48	- 7 39.2	1.518	2.479	9.6	19.2
8 19	22 40.67	-15 0.5	1.802	2.801	4.2	20.0	8 19	22 41.40	- 8 15.9	1.479	2.476	5.1	18.9
8 29	22 33.11	-15 45.8	1.793	2.798	2.3	19.9	8 29	22 33.18	- 8 58.6	1.465	2.475	0.3	18.6
9 8	22 25.49	-16 24.1	1.810	2.796	5.2	20.1	9 8	22 24.88	- 9 41.1	1.477	2.474	4.5	18.9
9 18	22 18.71	-16 50.9	1.853	2.794	8.9	20.3	9 18	22 17.57	-10 17.4	1.515	2.473	9.0	19.2
9 28	22 13.55	-17 3.7	1.921	2.792	12.2	20.5	9 28	22 12.16	-10 43.0	1.577	2.472	13.1	19.4
10 8	22 10.52	-17 1.5	2.008	2.791	15.1	20.7	10 8	22 9.24	-10 55.2	1.658	2.472	16.5	19.6
<b>155039</b>	2005 <i>QY</i> <sub>165</sub>		8 29.6	328°21'	0°3'/29.2	18	<b>350237</b>	2012 <i>TY</i> <sub>57</sub>		8 29.6	237°51'	1°7'/31.3	18
7 30	22 49.75	- 6 11.7	1.814	2.713	12.2	19.5	7 30	22 53.54	- 1 37.8	2.101	2.973	12.0	22.0
8 9	22 45.64	- 7 17.8	1.744	2.705	8.6	19.3	8 9	22 48.15	- 2 9.1	2.019	2.961	8.8	21.8
8 19	22 39.86	- 8 36.9	1.698	2.696	4.5	19.0	8 19	22 41.16	- 2 54.2	1.961	2.949	5.2	21.5
8 29	22 33.07	-10 3.0	1.679	2.689	0.3	18.7	8 29	22 33.17	- 3 49.8	1.930	2.937	1.9	21.3
9 8	22 26.14	-11 28.4	1.687	2.681	4.3	19.0	9 8	22 25.00	- 4 50.7	1.927	2.924	3.6	21.4
9 18	22 19.96	-12 45.9	1.721	2.674	8.5	19.2	9 18	22 17.47	- 5 51.5	1.952	2.910	7.3	21.6
9 28	22 15.36	-13 49.6	1.780	2.668	12.2	19.4	9 28	22 11.39	- 6 46.6	2.004	2.897	10.8	21.8
10 8	22 12.88	-14 36.0	1.860	2.661	15.4	19.6	10 8	22 7.31	- 7 31.9	2.078	2.882	13.9	22.0
<b>34384</b>	2000 <i>RW</i> <sub>61</sub>		8 29.6	359°53'	5°4'/24.3	18 R	<b>105926</b>	2000 <i>SE</i> <sub>218</sub>		8 29.6	353°19'	7°6'/22.9	18
7 30	22 52.95	-21 50.0	1.837	2.752	11.2	17.3	7 30	22 52.25	-25 15.2	1.460	2.384	13.0	18.4
8 9	22 47.85	-22 59.2	1.788	2.751	8.2	17.1	8 9	22 47.76	-26 33.2	1.414	2.377	9.9	18.2
8 19	22 40.99	-24 5.4	1.763	2.751	5.8	17.0	8 19	22 41.08	-27 44.4	1.391	2.372	7.8	18.0
8 29	22 33.13	-25 1.2	1.764	2.750	5.7	17.0	8 29	22 33.16	-28 39.0	1.391	2.368	8.1	18.1
9 8	22 25.27	-25 40.2	1.791	2.750	8.0	17.1	9 8	22 25.23	-29 9.6	1.415	2.364	10.5	18.2
9 18	22 18.36	-25 59.1	1.843	2.751	11.0	17.3	9 18	22 18.48	-29 12.6	1.461	2.362	13.7	18.4
9 28	22 13.23	-25 56.8	1.917	2.752	13.9	17.5	9 28	22 13.91	-28 48.5	1.526	2.361	16.8	18.6
10 8	22 10.37	-25 34.9	2.010	2.753	16.3	17.7	10 8	22 12.08	-28 0.7	1.609	2.361	19.4	18.8
<b>449069</b>	2012 <i>FS</i> <sub>43</sub>		8 29.6	249°23'	1°9'/27.8	18	<b>95945</b>	2003 <i>MG</i> <sub>5</sub>		8 29.6	335°77'	8°1'/5.3	18
7 30	22 56.16	-15 5.9	2.403	3.299	9.7	20.9	7 30	22 51.34	+11 36.3	1.747	2.570	16.1	18.4
8 9	22 49.74	-15 18.7	2.334	3.293	6.8	20.7	8 9	22 46.96	+12 21.6	1.664	2.554	13.5	18.2
8 19	22 41.87	-15 32.6	2.290	3.287	3.7	20.5	8 19	22 40.68	+12 44.3	1.600	2.539	10.8	18.0
8 29	22 33.19	-15 43.9	2.275	3.280	2.0	20.4	8 29	22 33.16	+12 42.3	1.559	2.524	8.7	17.9
9 8	22 24.47	-15 49.1	2.289	3.274	4.4	20.6	9 8	22 25.33	+12 16.8	1.542	2.510	8.2	17.8
9 18	22 16.47	-15 46.0	2.331	3.267	7.6	20.8	9 18	22 18.21	+11 32.0	1.550	2.497	9.8	17.9
9 28	22 9.89	-15 33.2	2.399	3.261	10.5	20.9	9 28	22 12.77	+10 34.6	1.580	2.485	12.5	18.0
10 8	22 5.19	-15 10.3	2.489	3.254	13.0	21.1	10 8	22 9.67	+ 9 33.0	1.632	2.474	15.4	18.2
<b>44686</b>	1999 <i>RN</i> <sub>200</sub>		8 29.6	260°78'	8°1'/5.3	18	<b>444962</b>	2008 <i>DG</i> <sub>48</sub>					

EPHEMERIDES

8 29.6

8 29.6

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>237572</b>	2001 <i>DA</i> <sub>2</sub>		8 29.6 294°16	0°4/29.3	18		<b>91112</b>	1998 <i>HJ</i> <sub>52</sub>		8 29.6 257°38	3°9/26.2	18	
7 30	22 54.16	- 8 11.1	1.657	2.558	13.1	20.8	7 30	22 57.22	-18 6.0	1.862	2.769	11.5	18.5
8 9	22 48.94	- 8 43.6	1.581	2.542	9.2	20.5	8 9	22 50.97	-18 54.9	1.792	2.754	8.2	18.2
8 19	22 41.71	- 9 26.7	1.529	2.527	4.9	20.2	8 19	22 42.75	-19 44.7	1.745	2.739	5.0	18.0
8 29	22 33.22	-10 15.2	1.502	2.512	0.4	19.9	8 29	22 33.33	-20 28.4	1.726	2.724	4.1	17.9
9 8	22 24.49	-11 2.7	1.502	2.497	4.7	20.2	9 8	22 23.74	-21 0.0	1.734	2.708	6.8	18.1
9 18	22 16.61	-11 43.2	1.527	2.482	9.3	20.4	9 18	22 15.02	-21 15.2	1.768	2.692	10.4	18.2
9 28	22 10.57	-12 11.7	1.577	2.467	13.4	20.6	9 28	22 8.12	-21 12.4	1.825	2.676	13.8	18.4
10 8	22 7.03	-12 25.6	1.646	2.452	16.9	20.8	10 8	22 3.67	-20 52.1	1.902	2.659	16.7	18.6
<b>343374</b>	2010 <i>CV</i> <sub>108</sub>		8 29.6 236°92	0°8/30.2	18		<b>279604</b>	2011 <i>EQ</i> <sub>21</sub>		8 29.6 40°62	0°7/28.9	16	
7 30	22 55.92	- 5 43.1	1.778	2.667	12.9	21.3	7 30	22 52.06	- 6 39.3	1.307	2.218	15.1	19.7
8 9	22 49.98	- 5 58.7	1.709	2.662	9.3	21.1	8 9	22 47.53	- 7 52.4	1.266	2.232	10.5	19.5
8 19	22 42.17	- 6 25.2	1.663	2.658	5.1	20.9	8 19	22 40.92	- 9 19.5	1.248	2.247	5.4	19.3
8 29	22 33.26	- 6 58.6	1.644	2.654	0.9	20.5	8 29	22 33.22	-10 51.5	1.253	2.263	0.7	19.0
9 8	22 24.22	- 7 34.0	1.652	2.649	4.1	20.8	9 8	22 25.61	-12 18.2	1.284	2.279	5.3	19.4
9 18	22 16.08	- 8 6.2	1.687	2.644	8.3	21.0	9 18	22 19.25	-13 31.2	1.340	2.296	10.1	19.7
9 28	22 9.71	- 8 30.8	1.747	2.639	12.2	21.3	9 28	22 15.03	-14 24.7	1.418	2.313	14.3	20.0
10 8	22 5.71	- 8 44.9	1.828	2.634	15.4	21.5	10 8	22 13.45	-14 56.7	1.515	2.331	17.7	20.3
<b>48141</b>	2001 <i>FE</i> <sub>150</sub>		8 29.6 18°63	4°3/ 1.2	18		<b>399578</b>	2003 <i>SZ</i> <sub>277</sub>		8 29.6 335°57	5°6/ 4.3	17	
7 30	22 54.27	- 0 10.1	1.048	1.949	18.8	18.1	7 30	22 49.67	+ 8 34.7	1.948	2.784	14.2	21.1
8 9	22 49.48	+ 0 11.9	1.002	1.956	14.1	17.9	8 9	22 45.57	+ 8 35.9	1.868	2.774	11.5	20.9
8 19	22 42.10	+ 0 11.5	0.975	1.963	9.0	17.6	8 19	22 39.86	+ 8 16.0	1.809	2.764	8.6	20.7
8 29	22 33.26	- 0 8.9	0.968	1.972	4.7	17.4	8 29	22 33.16	+ 7 35.6	1.773	2.755	6.1	20.5
9 8	22 24.46	- 0 42.9	0.985	1.982	5.9	17.5	9 8	22 26.29	+ 6 38.2	1.764	2.746	5.8	20.5
9 18	22 17.14	- 1 22.6	1.023	1.993	10.6	17.8	9 18	22 20.09	+ 5 29.4	1.780	2.738	7.9	20.6
9 28	22 12.46	- 1 59.4	1.083	2.005	15.2	18.1	9 28	22 15.35	+ 4 16.2	1.822	2.731	10.8	20.8
10 8	22 10.99	- 2 26.9	1.160	2.019	19.2	18.4	10 8	22 12.63	+ 3 5.6	1.886	2.724	13.8	20.9
<b>152812</b>	1999 <i>TC</i> <sub>244</sub>		8 29.6 338°10	6°2/25.0	18		<b>447407</b>	2006 <i>BW</i> <sub>163</sub>		8 29.6 256°58	0°5/29.1	17	
7 30	22 58.52	-25 30.0	1.774	2.682	12.0	19.0	7 30	22 51.72	- 8 31.6	2.438	3.329	9.8	22.0
8 9	22 51.84	-25 57.9	1.717	2.673	9.0	18.8	8 9	22 46.72	- 9 10.5	2.360	3.317	6.9	21.8
8 19	22 43.14	-26 18.1	1.684	2.666	6.7	18.7	8 19	22 40.37	- 9 56.6	2.307	3.304	3.6	21.6
8 29	22 33.32	-26 24.0	1.676	2.658	6.4	18.6	8 29	22 33.21	-10 46.1	2.282	3.292	0.5	21.3
9 8	22 23.54	-26 11.0	1.695	2.652	8.5	18.7	9 8	22 25.92	-11 34.3	2.286	3.279	3.6	21.5
9 18	22 14.90	-25 37.8	1.738	2.646	11.5	18.9	9 18	22 19.19	-12 17.0	2.318	3.267	6.9	21.7
9 28	22 8.33	-24 45.6	1.804	2.640	14.5	19.1	9 28	22 13.70	-12 50.7	2.377	3.254	10.0	21.9
10 8	22 4.36	-23 37.4	1.889	2.635	17.1	19.3	10 8	22 9.91	-13 13.3	2.458	3.240	12.6	22.1
<b>390800</b>	2004 <i>FG</i> <sub>61</sub>		8 29.6 131°82	0°6/28.9	18		<b>443787</b>	2015 <i>MD</i> <sub>01</sub>		8 29.6 79°71	6°3/ 5.0	18	
7 30	22 54.16	- 9 8.7	2.291	3.181	10.4	21.9	7 30	22 53.59	+10 50.2	2.132	2.943	14.0	19.9
8 9	22 48.33	- 9 45.5	2.235	3.191	7.2	21.7	8 9	22 48.14	+11 13.6	2.063	2.948	11.5	19.7
8 19	22 41.14	-10 28.4	2.205	3.202	3.7	21.5	8 19	22 41.15	+11 17.1	2.015	2.954	8.9	19.6
8 29	22 33.21	-11 13.3	2.203	3.212	0.6	21.3	8 29	22 33.26	+11 0.6	1.991	2.959	6.8	19.5
9 8	22 25.31	-11 55.4	2.229	3.222	3.7	21.5	9 8	22 25.28	+10 26.7	1.994	2.964	6.4	19.4
9 18	22 18.16	-12 30.9	2.285	3.231	7.1	21.8	9 18	22 18.03	+ 9 39.4	2.023	2.969	7.9	19.6
9 28	22 12.42	-12 56.7	2.366	3.240	10.1	22.0	9 28	22 12.24	+ 8 44.8	2.077	2.974	10.3	19.7
10 8	22 8.52	-13 11.4	2.469	3.249	12.7	22.2	10 8	22 8.42	+ 7 49.2	2.155	2.979	12.8	19.9
<b>416839</b>	2005 <i>JD</i> <sub>150</sub>		8 29.6 75°01	2°5/27.6	17		<b>46688</b>	1997 <i>AB</i> <sub>19</sub>		8 29.6 42°58	0°6/30.1	18	
7 30	22 55.77	-11 37.8	1.365	2.279	14.4	21.1	7 30	22 54.62	- 4 55.2	1.095	2.007	17.3	17.9
8 9	22 50.11	-12 47.0	1.323	2.291	9.9	20.9	8 9	22 49.49	- 5 37.2	1.061	2.026	12.2	17.7
8 19	22 42.28	-14 3.8	1.302	2.302	5.2	20.6	8 19	22 42.00	- 6 36.1	1.047	2.045	6.6	17.5
8 29	22 33.28	-15 19.3	1.307	2.314	2.6	20.5	8 29	22 33.30	- 7 44.0	1.056	2.066	0.9	17.1
9 8	22 24.39	-16 24.3	1.338	2.326	6.4	20.8	9 8	22 24.84	- 8 50.8	1.089	2.087	5.2	17.5
9 18	22 16.79	-17 12.3	1.393	2.338	10.9	21.0	9 18	22 17.93	- 9 47.9	1.145	2.109	10.5	17.9
9 28	22 11.44	-17 39.8	1.471	2.350	14.9	21.3	9 28	22 13.54	-10 29.2	1.223	2.131	15.0	18.2
10 8	22 8.87	-17 46.7	1.567	2.362	18.1	21.6	10 8	22 12.14	-10 51.8	1.319	2.154	18.7	18.5
<b>286550</b>	2002 <i>CW</i> <sub>169</sub>		8 29.6 117°49	2°6/27.3	17		<b>402061</b>	2003 <i>SX</i> <sub>427</sub>		8 29.6 318°93	1°7/28.2	18	
7 30	22 57.12	-11 51.8	1.519	2.427	13.6	20.4	7 30	22 54.41	-13 17.0	2.006	2.909	11.0	20.6
8 9	22 50.90	-13 13.2	1.476	2.441	9.4	20.2	8 9	22 48.83	-13 33.8	1.934	2.896	7.7	20.4
8 19	22 42.65	-14 41.5	1.456	2.455	4.9	20.0	8 19	22 41.56	-13 54.0	1.886	2.884	4.1	20.1
8 29	22 33.32	-16 7.6	1.463	2.469	2.8	19.9	8 29	22 33.29	-14 13.3	1.864	2.872	1.7	20.0
9 8	22 24.07	-17 22.5	1.497	2.482	6.3	20.1	9 8	22 24.91	-14 27.3	1.870	2.860	4.7	20.1
9 18	22 16.03	-18 19.8	1.556	2.494	10.5	20.4	9 18	22 17.29	-14 32.6	1.904	2.848	8.4	20.4
9 28	22 10.12	-18 56.2	1.639	2.507	14.2	20.7	9 28	22 11.27	-14 27.0	1.961	2.837	11.8	20.5
10 8	22 6.86	-19 11.6	1.741	2.518	17.2	20.9	10 8	22 7.38	-14 9.8	2.040	2.826	14.8	20.7
<b>352917</b>	2008 <i>YJ</i> <sub>145</sub>		8 29.6 318°89	1°7/30.9	18		<b>346615</b>	2008 <i>WQ</i> <sub>84</sub>		8 29.6 317°07	3°6/26.8	18	
7 30	22 53.64	- 3 28.2	1.606	2.496	14.0	20.7	7 30	22 54.58	-15 41.2	1.519	2.435	13.0	20.7
8 9	22 48.58	- 3 40.5	1.534	2.487	10.2	20.5	8 9	22 49.37	-16 32.7	1.456	2.424	9.2	20.5
8 19	22 41.53	- 4 7.1	1.485	2.477	5.9	20.2	8 19	22 42.00	-17 28.0	1.415	2.413	5.2	20.2
8 29	22 33.26	- 4 44.4	1.460	2.468	1.9	19.9	8 29	22 33.32	-18 19.4	1.400	2.402	3.8	20.1
9 8	22 24.80	- 5 27.0	1.462	2.459	4.3	20.1	9 8	22 24.49	-18 59.2	1.410	2.392	7.0	20.3
9 18	22 17.23	- 6 8.8	1.489	2.451	8.7	20.3	9 18	22 16.69	-19 22.1	1.444	2.382	11.2	20.5
9 28	22 11.52	- 6 44.1	1.540	2.443	12.9	20.5	9 28	22 10.95	-19 25.5	1.501	2.373	15.1	20.7
10 8	22 8.30	- 7 8.6	1.611	2.435	16.4	20.8	10 8	22 7.92	-19 9.5	1.576	2.364	18.3	20.9
<b>144221</b>	2004 <i>CS</i> <sub>26</sub>		8 29.6 164°86	0°1/29.5	18		<b>328525</b>						

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>512712</b>	2016 <i>UO</i> <sub>12</sub>		8 29.6 330°71	2°9/	1.1	18	<b>390020</b>	2012 <i>UY</i> <sub>18</sub>		8 29.6 221°62	1°1/28.7	18	
7 30	22 53.47	+ 0 16.6	1.702	2.577	14.1	20.9	7 30	22 54.06	- 9 24.3	1.807	2.707	12.2	21.5
8 9	22 48.35	+ 0 5.9	1.633	2.574	10.6	20.7	8 9	22 48.68	-10 12.6	1.744	2.706	8.5	21.3
8 19	22 41.37	- 0 21.6	1.587	2.571	6.7	20.5	8 19	22 41.53	-11 9.4	1.705	2.704	4.4	21.0
8 29	22 33.29	- 1 3.1	1.565	2.569	3.3	20.2	8 29	22 33.35	-12 9.1	1.692	2.702	1.1	20.8
9 8	22 25.08	- 1 53.5	1.570	2.566	4.3	20.3	9 8	22 25.08	-13 5.1	1.707	2.699	4.7	21.0
9 18	22 17.74	- 2 46.6	1.601	2.564	8.2	20.5	9 18	22 17.68	-13 51.7	1.749	2.697	8.8	21.3
9 28	22 12.16	- 3 36.1	1.657	2.562	12.0	20.8	9 28	22 12.00	-14 24.8	1.815	2.695	12.4	21.5
10 8	22 8.92	- 4 16.9	1.734	2.560	15.3	21.0	10 8	22 8.57	-14 42.5	1.901	2.692	15.5	21.7
<b>213128</b>	2000 <i>DX</i> <sub>24</sub>		8 29.6 167°53	0°6/28.9	18		<b>242588</b>	2005 <i>GV</i> <sub>172</sub>		8 29.6 35°85	2°5/27.6	18	
7 30	22 52.08	- 6 57.5	2.049	2.942	11.3	20.5	7 30	22 54.21	-13 26.9	1.591	2.504	12.8	20.1
8 9	22 47.12	- 8 12.2	1.986	2.944	7.9	20.3	8 9	22 48.85	-14 13.2	1.545	2.512	8.9	19.8
8 19	22 40.63	- 9 37.4	1.948	2.945	4.1	20.1	8 19	22 41.60	-15 3.9	1.521	2.520	4.7	19.6
8 29	22 33.25	-11 7.1	1.938	2.947	0.6	19.8	8 29	22 33.35	-15 52.2	1.523	2.529	2.6	19.5
9 8	22 25.81	-12 34.3	1.956	2.948	4.1	20.1	9 8	22 25.16	-16 31.6	1.551	2.538	5.8	19.7
9 18	22 19.10	-13 52.4	2.002	2.949	7.9	20.3	9 18	22 18.05	-16 57.4	1.605	2.548	9.8	20.0
9 28	22 13.86	-14 56.5	2.074	2.950	11.3	20.5	9 28	22 12.90	-17 6.9	1.681	2.558	13.4	20.2
10 8	22 10.58	-15 44.0	2.168	2.951	14.1	20.7	10 8	22 10.19	-17 0.0	1.777	2.568	16.4	20.5
<b>233402</b>	2006 <i>FL</i> <sub>42</sub>		8 29.6 330°05	0°0/29.6	18		<b>427721</b>	2004 <i>HN</i> <sub>32</sub>		8 29.6 94°68	5°9/24.9	17	
7 30	22 53.05	- 6 36.3	1.604	2.504	13.5	20.4	7 30	22 58.24	-21 24.5	1.537	2.451	13.1	20.9
8 9	22 48.14	- 7 18.3	1.539	2.500	9.5	20.2	8 9	22 51.74	-22 37.6	1.499	2.462	9.5	20.8
8 19	22 41.29	- 8 12.7	1.498	2.496	5.1	19.9	8 19	22 43.14	-23 46.7	1.486	2.474	6.5	20.6
8 29	22 33.30	- 9 13.9	1.482	2.492	0.3	19.5	8 29	22 33.44	-24 42.5	1.498	2.486	6.2	20.6
9 8	22 25.19	-10 14.7	1.493	2.488	4.5	19.8	9 8	22 23.90	-25 18.2	1.535	2.497	8.7	20.8
9 18	22 18.01	-11 8.4	1.529	2.485	9.1	20.1	9 18	22 15.67	-25 30.7	1.597	2.509	12.1	21.0
9 28	22 12.69	-11 49.6	1.589	2.482	13.1	20.3	9 28	22 9.69	-25 20.1	1.680	2.520	15.3	21.3
10 8	22 9.82	-12 15.3	1.669	2.480	16.5	20.6	10 8	22 6.45	-24 49.1	1.781	2.531	17.9	21.5
<b>284049</b>	2005 <i>BS</i> <sub>6</sub>		8 29.6 92°82	2°2/31.3	18		<b>71592</b>	2000 <i>DM</i> <sub>76</sub>		8 29.6 255°05	0°6/30.4	18	
7 30	22 57.42	- 2 56.1	1.781	2.659	13.5	19.9	7 30	22 51.63	- 4 55.8	2.636	3.513	9.6	19.8
8 9	22 50.99	- 2 45.6	1.717	2.662	9.9	19.6	8 9	22 46.62	- 5 24.8	2.549	3.497	6.9	19.6
8 19	22 42.72	- 2 47.2	1.677	2.665	5.9	19.4	8 19	22 40.34	- 6 2.6	2.488	3.481	3.8	19.3
8 29	22 33.38	- 2 58.4	1.662	2.668	2.4	19.2	8 29	22 33.28	- 6 46.2	2.456	3.465	0.8	19.1
9 8	22 24.01	- 3 15.6	1.675	2.671	4.1	19.3	9 8	22 26.08	- 7 31.8	2.452	3.448	3.0	19.2
9 18	22 15.58	- 3 34.4	1.715	2.674	8.0	19.6	9 18	22 19.36	- 8 15.5	2.477	3.431	6.2	19.4
9 28	22 8.98	- 3 50.5	1.780	2.677	11.7	19.8	9 28	22 13.77	- 8 53.6	2.529	3.414	9.2	19.6
10 8	22 4.74	- 4 0.4	1.867	2.680	14.9	20.0	10 8	22 9.75	- 9 23.2	2.605	3.396	11.8	19.7
<b>406993</b>	2009 <i>RV</i> <sub>42</sub>		8 29.6 306°30	3°6/	2.5	18	<b>254535</b>	2005 <i>EM</i> <sub>139</sub>		8 29.6 49°90	4°8/26.8	17	
7 30	22 50.61	+ 3 52.8	2.159	3.011	12.4	20.7	7 30	23 0.42	-17 55.0	1.117	2.040	16.1	19.5
8 9	22 46.11	+ 3 41.3	2.075	2.999	9.6	20.5	8 9	22 53.49	-18 37.8	1.092	2.062	11.3	19.3
8 19	22 40.13	+ 3 13.3	2.015	2.987	6.6	20.3	8 19	22 44.05	-19 18.7	1.088	2.085	6.6	19.1
8 29	22 33.23	+ 2 30.6	1.980	2.975	4.0	20.1	8 29	22 33.49	-19 48.5	1.107	2.108	5.0	19.1
9 8	22 26.17	+ 1 36.9	1.972	2.964	4.2	20.1	9 8	22 23.41	-20 0.6	1.150	2.132	8.3	19.3
9 18	22 19.71	+ 0 37.2	1.992	2.952	7.0	20.3	9 18	22 15.18	-19 52.3	1.216	2.156	12.6	19.6
9 28	22 14.58	+ 0 22.6	2.037	2.941	10.1	20.4	9 28	22 9.78	-19 24.3	1.303	2.181	16.5	20.0
10 8	22 11.31	- 1 17.2	2.106	2.930	13.0	20.6	10 8	22 7.58	-18 39.3	1.408	2.205	19.7	20.2
<b>200495</b>	2000 <i>YE</i> <sub>83</sub>		8 29.6 357°74	6°1/	2.7	18	<b>65060</b>	2002 <i>AD</i> <sub>177</sub>		8 29.6 22°45	1°6/28.1	18	
7 30	22 52.63	+ 3 52.6	1.231	2.111	18.0	18.5	7 30	22 52.63	-11 35.7	1.951	2.854	11.2	19.3
8 9	22 48.26	+ 4 27.3	1.170	2.107	14.1	18.3	8 9	22 47.55	-12 20.5	1.893	2.856	7.8	19.1
8 19	22 41.52	+ 4 38.5	1.128	2.104	10.0	18.0	8 19	22 40.88	-13 10.9	1.859	2.858	4.0	18.9
8 29	22 33.32	+ 4 26.2	1.108	2.102	6.6	17.8	8 29	22 33.32	-14 1.6	1.853	2.860	1.7	18.7
9 8	22 24.95	+ 3 54.5	1.111	2.102	6.7	17.8	9 8	22 25.73	-14 46.8	1.874	2.863	4.7	19.0
9 18	22 17.73	+ 3 10.3	1.136	2.103	10.2	18.0	9 18	22 18.96	-15 22.0	1.921	2.865	8.4	19.2
9 28	22 12.80	+ 2 22.3	1.183	2.104	14.4	18.3	9 28	22 13.77	-15 44.0	1.993	2.868	11.7	19.4
10 8	22 10.83	+ 1 38.7	1.250	2.108	18.2	18.5	10 8	22 10.65	-15 51.7	2.086	2.871	14.5	19.6
<b>268350</b>	2005 <i>SS</i> <sub>251</sub>		8 29.6 330°64	2°9/27.7	18		<b>106630</b>	2000 <i>WF</i> <sub>130</sub>		8 29.6 171°64	2°6/27.0	18	
7 30	22 53.52	-13 7.4	1.186	2.111	15.2	19.9	7 30	22 55.70	-14 48.0	2.179	3.079	10.4	20.6
8 9	22 49.09	-13 50.2	1.123	2.096	10.7	19.6	8 9	22 49.58	-15 42.2	2.121	3.082	7.2	20.4
8 19	22 42.05	-14 41.2	1.080	2.081	5.7	19.3	8 19	22 41.91	-16 39.0	2.088	3.085	4.0	20.2
8 29	22 33.36	-15 32.0	1.060	2.067	3.0	19.1	8 29	22 33.38	-17 32.8	2.084	3.087	2.7	20.1
9 8	22 24.43	-16 13.2	1.063	2.054	7.2	19.3	9 8	22 24.82	-18 18.3	2.109	3.089	5.2	20.3
9 18	22 16.69	-16 37.8	1.089	2.042	12.4	19.6	9 18	22 17.07	-18 51.3	2.161	3.090	8.5	20.5
9 28	22 11.43	-16 41.7	1.136	2.031	17.1	19.8	9 28	22 10.84	-19 9.8	2.238	3.091	11.5	20.7
10 8	22 9.37	-16 24.5	1.199	2.021	21.0	20.1	10 8	22 6.63	-19 13.4	2.336	3.091	14.0	20.9
<b>353205</b>	2009 <i>SN</i> <sub>318</sub>		8 29.6 266°22	0°4/28.8	17		<b>436129</b>	2009 <i>UX</i> <sub>4</sub>		8 29.6 277°83	3°5/26.9	18	
7 30	22 45.89	-10 12.5	4.487	5.374	5.8	21.6	7 30	22 57.23	-15 50.3	1.560	2.472	13.1	21.3
8 9	22 42.19	-10 38.1	4.414	5.370	4.0	21.4	8 9	22 51.26	-16 37.0	1.493	2.459	9.2	21.0
8 19	22 37.83	-11 6.6	4.368	5.365	2.0	21.3	8 19	22 43.05	-17 26.9	1.448	2.446	5.3	20.8
8 29	22 33.11	-11 36.0	4.351	5.360	0.4	21.1	8 29	22 33.46	-18 12.8	1.430	2.433	3.7	20.7
9 8	22 28.36	-12 4.2	4.364	5.355	2.1	21.3	9 8	22 23.68	-18 47.2	1.437	2.419	6.9	20.8
9 18	22 23.90	-12 29.3	4.407	5.351	4.1	21.4	9 18	22 14.93	-19 5.2	1.470	2.406	11.1	21.0
9 28	22 20.05	-12 49.8	4.477	5.346	5.8	21.6	9 28	22 8.28	-19 4.2	1.525	2.393	15.0	21.2
10 8	22 17.08	-13 4.4	4.572	5.341	7.4	21.7	10 8	22 4.41	-18 44.7	1.598	2.380	18.4	21.4
<b>22429</b>	Jurašek		8 29.6 238°79	7°4/20.7	18		<b>262070</b>	2006 <i>RJ</i> <sub>49</sub>		8 29.			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>166598</b>	2002 <i>RW</i> <sub>196</sub>		8 29.6	6°33'	6°33'/24.1	18	<b>47562</b>	2000 <i>AZ</i> <sub>148</sub>		8 29.7	184°01'	2°0'/27.7	18
7 30	22 52.11	-20 43.8	1.403	2.329	13.2	18.8	7 30	22 54.27	-9 47.0	1.580	2.486	13.3	18.1
8 9	22 47.70	-22 15.0	1.360	2.329	9.6	18.6	8 9	22 49.07	-11 15.3	1.521	2.486	9.2	17.9
8 19	22 41.13	-23 44.4	1.340	2.330	6.7	18.5	8 19	22 41.86	-12 54.7	1.487	2.486	4.7	17.6
8 29	22 33.34	-25 1.2	1.344	2.332	6.7	18.5	8 29	22 33.47	-14 36.2	1.479	2.486	2.1	17.5
9 8	22 25.56	-25 56.6	1.372	2.335	9.5	18.7	9 8	22 24.97	-16 10.1	1.498	2.486	5.9	17.7
9 18	22 18.96	-26 25.9	1.424	2.339	13.1	18.9	9 18	22 17.46	-17 28.3	1.543	2.485	10.2	18.0
9 28	22 14.53	-26 27.9	1.495	2.343	16.4	19.1	9 28	22 11.88	-18 25.8	1.611	2.484	14.1	18.2
10 8	22 12.81	-26 5.3	1.584	2.349	19.2	19.3	10 8	22 8.83	-19 0.8	1.699	2.483	17.4	18.4
<b>444987</b>	2008 <i>FW</i> <sub>51</sub>		8 29.6	217°17'	1°1'/30.9	18	<b>398106</b>	2009 <i>SE</i> <sub>240</sub>		8 29.7	345°45'	12°0'/18.9	18
7 30	22 51.55	- 2 34.4	2.330	3.204	10.8	21.8	7 30	23 3.42	-43 13.6	1.846	2.708	13.7	19.6
8 9	22 46.65	- 3 16.0	2.255	3.200	7.9	21.6	8 9	22 55.50	-44 5.6	1.809	2.701	12.5	19.5
8 19	22 40.38	- 4 9.6	2.205	3.195	4.5	21.4	8 19	22 45.18	-44 35.0	1.793	2.695	12.0	19.4
8 29	22 33.31	- 5 11.4	2.182	3.190	1.3	21.2	8 29	22 33.67	-44 33.9	1.800	2.689	12.5	19.5
9 8	22 26.14	- 6 16.6	2.188	3.185	3.2	21.3	9 8	22 22.44	-43 59.0	1.828	2.683	13.8	19.5
9 18	22 19.57	- 7 19.9	2.222	3.179	6.6	21.5	9 18	22 12.84	-42 51.5	1.878	2.679	15.5	19.7
9 28	22 14.27	- 8 16.6	2.283	3.173	9.8	21.7	9 28	22 5.88	-41 16.2	1.946	2.675	17.3	19.8
10 8	22 10.71	- 9 3.1	2.367	3.168	12.5	21.9	10 8	22 2.00	-39 20.0	2.031	2.672	18.9	19.9
<b>200088</b>	1993 <i>BD</i> <sub>12</sub>		8 29.6	276°15'	1°8'/30.9	18	<b>421429</b>	2014 <i>AK</i> <sub>52</sub>		8 29.7	119°67'	5°5'/4.0	18
7 30	22 57.27	- 3 55.0	1.744	2.627	13.5	20.2	7 30	22 55.49	+ 8 21.7	1.975	2.801	14.4	20.8
8 9	22 51.11	- 3 48.8	1.665	2.613	9.9	19.9	8 9	22 49.55	+ 8 29.4	1.912	2.813	11.5	20.7
8 19	22 44.94	- 3 54.2	1.609	2.600	5.8	19.7	8 19	22 41.98	+ 8 16.9	1.871	2.824	8.5	20.5
8 29	22 32.49	- 4 8.7	1.579	2.587	2.1	19.4	8 29	22 33.49	+ 7 45.2	1.855	2.835	6.0	20.4
9 8	22 23.80	- 4 28.5	1.576	2.573	4.2	19.5	9 8	22 24.96	+ 6 57.8	1.865	2.846	5.7	20.4
9 18	22 14.94	- 4 49.0	1.600	2.560	8.5	19.7	9 18	22 17.28	+ 6 0.2	1.903	2.856	7.8	20.5
9 28	22 7.90	- 5 5.6	1.649	2.546	12.5	20.0	9 28	22 11.22	+ 4 58.8	1.966	2.866	10.6	20.7
10 8	22 3.34	- 5 14.8	1.719	2.532	16.0	20.2	10 8	22 7.27	+ 4 0.0	2.053	2.876	13.4	20.9
<b>182837</b>	2002 <i>CN</i> <sub>9</sub>		8 29.6	232°62'	0°5'/29.1	18	<b>20377</b>	Jakubisin		8 29.7	127°90'	0°9'/30.4	18
7 30	22 53.06	- 8 58.9	2.183	3.077	10.7	21.0	7 30	22 57.38	- 4 22.7	1.636	2.523	14.0	18.8
8 9	22 47.76	- 9 31.4	2.116	3.074	7.5	20.8	8 9	22 51.06	- 4 57.7	1.582	2.534	10.0	18.6
8 19	22 40.98	-10 10.9	2.074	3.072	3.9	20.6	8 19	22 42.83	- 5 46.1	1.551	2.545	5.5	18.3
8 29	22 33.36	-10 53.2	2.060	3.069	0.5	20.3	8 29	22 33.54	- 6 42.6	1.546	2.556	1.1	18.0
9 8	22 25.68	-11 33.5	2.074	3.067	3.8	20.6	9 8	22 24.28	- 7 40.5	1.569	2.566	4.2	18.3
9 18	22 18.70	-12 7.6	2.115	3.064	7.4	20.8	9 18	22 16.10	- 8 33.4	1.618	2.575	8.6	18.6
9 28	22 13.13	-12 32.2	2.182	3.062	10.6	21.0	9 28	22 9.88	- 9 16.0	1.692	2.584	12.5	18.8
10 8	22 9.46	-12 45.4	2.271	3.059	13.4	21.2	10 8	22 6.15	- 9 45.2	1.787	2.593	15.8	19.1
<b>142232</b>	2002 <i>RN</i> <sub>83</sub>		8 29.6	317°77'	1°1'/28.9	18	<b>363638</b>	2004 <i>RP</i> <sub>189</sub>		8 29.7	349°62'	6°0'/3.9	18
7 30	22 54.13	- 9 40.7	1.162	2.082	15.9	19.7	7 30	22 50.69	+ 7 17.5	1.683	2.533	15.5	19.8
8 9	22 49.82	-10 5.2	1.081	2.051	11.4	19.3	8 9	22 46.51	+ 7 34.7	1.610	2.526	12.4	19.6
8 19	22 42.67	-10 42.7	1.019	2.020	6.1	18.9	8 19	22 40.52	+ 7 30.1	1.558	2.519	9.2	19.4
8 29	22 33.50	-11 26.7	0.980	1.990	1.1	18.5	8 29	22 33.40	+ 7 3.9	1.529	2.514	6.5	19.2
9 8	22 23.70	-12 8.6	0.964	1.960	6.3	18.8	9 8	22 26.11	+ 6 19.6	1.524	2.509	6.2	19.2
9 18	22 14.87	-12 40.3	0.971	1.932	12.3	19.0	9 18	22 19.62	+ 5 22.9	1.545	2.505	8.6	19.3
9 28	22 8.53	-12 55.2	0.998	1.904	17.8	19.2	9 28	22 14.82	+ 4 21.1	1.589	2.502	11.9	19.5
10 8	22 5.67	-12 50.3	1.041	1.878	22.5	19.4	10 8	22 12.31	+ 3 21.7	1.655	2.500	15.1	19.7
<b>348082</b>	2003 <i>WB</i> <sub>84</sub>		8 29.6	288°47'	2°4'/31.3	18	<b>379607</b>	2011 <i>CY</i> <sub>67</sub>		8 29.7	138°92'	1°1'/28.7	17
7 30	22 57.51	- 2 57.4	1.774	2.651	13.5	20.3	7 30	22 57.33	-10 0.5	1.749	2.647	12.7	21.7
8 9	22 51.30	- 2 40.1	1.690	2.635	10.0	20.1	8 9	22 50.97	-10 39.0	1.694	2.654	8.8	21.5
8 19	22 43.06	- 2 34.3	1.630	2.618	6.1	19.8	8 19	22 42.77	-11 24.8	1.664	2.662	4.6	21.2
8 29	22 33.52	- 2 38.5	1.596	2.601	2.6	19.6	8 29	22 33.55	-12 12.2	1.660	2.669	1.1	21.0
9 8	22 23.69	- 2 49.3	1.588	2.584	4.3	19.6	9 8	22 24.35	-12 55.1	1.683	2.675	4.7	21.3
9 18	22 14.64	- 3 2.8	1.608	2.568	8.4	19.9	9 18	22 16.16	-13 28.6	1.734	2.681	8.9	21.5
9 28	22 7.38	- 3 14.6	1.653	2.551	12.4	20.1	9 28	22 9.86	-13 49.2	1.808	2.687	12.5	21.8
10 8	22 2.59	- 3 20.9	1.719	2.534	15.9	20.3	10 8	22 5.95	-13 55.6	1.904	2.692	15.6	22.0
<b>509776</b>	2008 <i>UN</i> <sub>119</sub>		8 29.7	283°70'	0°2'/29.8	18	<b>342424</b>	2008 <i>UB</i> <sub>77</sub>		8 29.7	290°91'	0°9'/30.4	18
7 30	22 55.55	- 7 8.3	1.696	2.591	13.1	21.6	7 30	22 54.61	- 5 0.2	1.678	2.569	13.4	21.0
8 9	22 49.89	- 7 27.9	1.625	2.582	9.3	21.3	8 9	22 49.40	- 5 22.3	1.593	2.548	9.7	20.7
8 19	22 42.28	- 7 57.8	1.577	2.573	5.0	21.1	8 19	22 42.13	- 5 57.7	1.532	2.526	5.5	20.4
8 29	22 33.48	- 8 33.7	1.555	2.565	0.4	20.7	8 29	22 33.52	- 6 42.6	1.496	2.505	1.1	20.0
9 8	22 24.51	- 9 9.9	1.560	2.556	4.3	21.0	9 8	22 24.57	- 7 31.0	1.486	2.484	4.3	20.2
9 18	22 16.43	- 9 41.3	1.591	2.547	8.8	21.2	9 18	22 16.38	- 8 16.9	1.503	2.462	8.9	20.4
9 28	22 10.19	-10 3.3	1.647	2.539	12.8	21.5	9 28	22 9.99	- 8 54.3	1.544	2.441	13.2	20.7
10 8	22 6.39	-10 13.3	1.723	2.530	16.2	21.7	10 8	22 6.08	- 9 19.4	1.605	2.420	16.9	20.8
<b>94302</b>	2001 <i>EY</i> <sub>15</sub>		8 29.7	260°62'	9°0'/18.6	18	<b>6315</b>	Barabash		8 29.7	298°89'	2°0'/28.4	18
7 30	22 58.64	-39 15.6	2.424	3.294	10.6	18.8	7 30	22 57.89	-11 56.2	1.261	2.176	15.3	17.1
8 9	22 51.79	-40 20.7	2.381	3.284	9.4	18.7	8 9	22 52.24	-12 22.9	1.188	2.156	10.8	16.8
8 19	22 43.15	-41 11.1	2.362	3.275	9.0	18.6	8 19	22 43.84	-12 58.0	1.136	2.136	5.8	16.5
8 29	22 33.52	-41 40.2	2.367	3.266	9.5	18.7	8 29	22 33.63	-13 34.5	1.108	2.116	2.0	16.2
9 8	22 23.92	-41 44.3	2.397	3.256	10.8	18.7	9 8	22 23.02	-14 4.5	1.104	2.097	6.5	16.4
9 18	22 15.32	-41 22.9	2.449	3.247	12.4	18.8	9 18	22 13.54	-14 21.4	1.124	2.078	11.9	16.7
9 28	22 8.55	-40 37.8	2.521	3.237	14.1	19.0	9 28	22 6.55	-14 21.2	1.166	2.059	16.8	16.9
10 8	22 4.11	-39 32.9	2.610	3.227	15.6	19.1	10 8	22 2.88	-14 2.8	1.224	2.040	21.0	17.1
<b>94314</b>	2001 <i>FV</i> <sub>49</sub>		8 29.7	214°30'	4°3'/4.6	18 R	<b>454394</b>	2014 <i>NF</i> <sub>21</sub>		8 29.7	32°86'</		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>177419</b>	2004 CG <sub>12</sub>		8 29.7 140°15	0°8/28.9	18		<b>133168</b>	2003 QB <sub>41</sub>		8 29.7 20°89	0°6/29.3	17	
7 30	22 57.55	- 8 58.3	1.733	2.629	12.9	20.4	7 30	22 49.78	- 7 9.3	0.796	1.732	19.2	18.6
8 9	22 51.13	- 9 39.7	1.679	2.638	9.0	20.2	8 9	22 46.72	- 7 57.0	0.767	1.744	13.4	18.3
8 19	22 42.86	-10 29.5	1.648	2.646	4.7	20.0	8 19	22 40.84	- 9 2.6	0.755	1.757	7.0	18.0
8 29	22 33.56	-11 22.0	1.645	2.654	0.8	19.7	8 29	22 33.47	-10 15.3	0.763	1.773	0.7	17.7
9 8	22 24.28	-12 10.7	1.669	2.662	4.6	20.0	9 8	22 26.33	-11 22.3	0.792	1.790	6.4	18.1
9 18	22 16.04	-12 50.4	1.720	2.669	8.8	20.3	9 18	22 20.93	-12 13.5	0.840	1.809	12.4	18.5
9 28	22 9.69	-13 17.2	1.795	2.675	12.5	20.6	9 28	22 18.41	-12 42.5	0.908	1.830	17.5	18.9
10 8	22 5.75	-13 29.6	1.891	2.682	15.6	20.8	10 8	22 19.19	-12 48.0	0.991	1.852	21.6	19.3
<b>78908</b>	2003 ST <sub>90</sub>		8 29.7 323°81	10°6/21.9	18		<b>482408</b>	2012 BZ <sub>69</sub>		8 29.7 274°69	3°5/1.6	17	
7 30	22 59.05	-31 15.0	1.321	2.234	14.8	18.1	7 30	22 56.82	+ 1 9.6	2.197	3.050	12.2	21.4
8 9	22 53.24	-32 20.8	1.255	2.204	12.3	17.8	8 9	22 50.52	+ 1 37.6	2.113	3.039	9.3	21.2
8 19	22 44.43	-33 13.4	1.210	2.176	10.7	17.7	8 19	22 42.57	+ 1 53.5	2.052	3.027	6.3	20.9
8 29	22 33.67	-33 40.8	1.187	2.148	11.2	17.6	8 29	22 33.59	+ 1 58.1	2.019	3.016	3.8	20.8
9 8	22 22.59	-33 34.1	1.186	2.120	13.6	17.7	9 8	22 24.42	+ 1 53.3	2.014	3.004	4.3	20.8
9 18	22 12.88	-32 50.5	1.205	2.094	17.0	17.8	9 18	22 15.89	+ 1 42.1	2.037	2.992	7.2	21.0
9 28	22 5.99	-31 32.7	1.243	2.069	20.4	18.0	9 28	22 8.80	+ 1 28.4	2.086	2.981	10.4	21.1
10 8	22 2.69	-29 47.4	1.297	2.045	23.4	18.1	10 8	22 3.73	+ 1 16.0	2.158	2.969	13.2	21.3
<b>200110</b>	1995 UM <sub>50</sub>		8 29.7 77°29	1°2/28.7	16		<b>53533</b>	2000 AA <sub>216</sub>		8 29.7 32°08	2°0/30.9	18	R
7 30	22 56.29	-10 36.0	1.680	2.582	12.8	21.0	7 30	22 57.24	- 4 26.6	1.192	2.095	16.9	18.0
8 9	22 50.29	-11 6.8	1.627	2.589	8.9	20.8	8 9	22 51.42	- 4 17.7	1.147	2.105	12.2	17.7
8 19	22 42.43	-11 44.3	1.598	2.596	4.6	20.6	8 19	22 43.18	- 4 24.2	1.121	2.115	7.0	17.5
8 29	22 33.54	-12 23.1	1.594	2.603	1.2	20.4	8 29	22 33.62	- 4 42.1	1.118	2.127	2.2	17.2
9 8	22 24.69	-12 57.1	1.618	2.611	4.8	20.6	9 8	22 24.17	- 5 5.4	1.140	2.139	5.0	17.5
9 18	22 16.89	-13 21.8	1.668	2.618	9.0	20.9	9 18	22 16.15	- 5 28.0	1.186	2.151	10.0	17.8
9 28	22 11.00	-13 34.1	1.742	2.625	12.7	21.2	9 28	22 10.63	- 5 44.3	1.253	2.164	14.5	18.1
10 8	22 7.52	-13 32.8	1.837	2.632	15.8	21.4	10 8	22 8.16	- 5 50.3	1.340	2.178	18.3	18.4
<b>163333</b>	2002 KU <sub>8</sub>		8 29.7 5°80	11°7/19.4	18		<b>84213</b>	2002 RQ <sub>153</sub>		8 29.7 178°11	2°0/28.2	18	
7 30	22 52.27	-31 41.6	1.180	2.105	15.2	18.1	7 30	23 1.75	-13 52.9	1.824	2.720	12.3	20.2
8 9	22 48.27	-33 39.2	1.152	2.105	12.8	18.0	8 9	22 54.08	-14 12.2	1.763	2.722	8.6	20.0
8 19	22 41.61	-35 19.3	1.146	2.107	11.7	17.9	8 19	22 44.44	-14 34.1	1.726	2.723	4.6	19.8
8 29	22 33.49	-36 28.8	1.160	2.110	12.6	18.0	8 29	22 33.71	-14 53.6	1.717	2.724	2.1	19.6
9 8	22 25.47	-36 59.7	1.195	2.114	14.9	18.1	9 8	22 22.97	-15 5.7	1.736	2.724	5.2	19.8
9 18	22 19.02	-36 50.4	1.248	2.120	17.7	18.3	9 18	22 13.31	-15 7.4	1.783	2.723	9.2	20.0
9 28	22 15.26	-36 4.8	1.319	2.126	20.4	18.6	9 28	22 5.62	-14 56.9	1.854	2.722	12.8	20.3
10 8	22 14.69	-34 49.7	1.403	2.135	22.7	18.8	10 8	22 0.46	-14 34.4	1.947	2.721	15.8	20.5
<b>324895</b>	2007 VW <sub>95</sub>		8 29.7 300°93	1°2/28.8	18		<b>480666</b>	2015 OQ <sub>51</sub>		8 29.7 53°82	6°2/24.7	16	
7 30	22 53.31	- 7 38.2	1.243	2.157	15.5	20.3	7 30	22 57.75	-23 31.6	1.608	2.521	12.7	20.6
8 9	22 48.95	- 8 45.0	1.173	2.140	11.0	20.0	8 9	22 51.21	-24 36.4	1.588	2.548	9.3	20.5
8 19	22 42.08	-10 9.4	1.124	2.124	5.7	19.6	8 19	22 42.82	-25 33.7	1.592	2.576	6.7	20.4
8 29	22 33.54	-11 42.8	1.098	2.108	1.2	19.3	8 29	22 33.60	-26 15.6	1.621	2.604	6.5	20.4
9 8	22 24.64	-13 14.1	1.097	2.091	6.1	19.6	9 8	22 24.72	-26 37.1	1.675	2.632	8.7	20.6
9 18	22 16.79	-14 32.5	1.120	2.076	11.7	19.8	9 18	22 17.21	-26 36.6	1.754	2.660	11.6	20.9
9 28	22 11.26	-15 30.3	1.164	2.060	16.6	20.1	9 28	22 11.84	-26 15.1	1.855	2.688	14.3	21.1
10 8	22 8.84	-16 3.8	1.225	2.046	20.8	20.3	10 8	22 9.00	-25 35.8	1.975	2.716	16.6	21.3
<b>206662</b>	2003 YB <sub>64</sub>		8 29.7 256°49	1°3/30.9	18		<b>225755</b>	2001 SJ <sub>160</sub>		8 29.7 285°33	3°3/1.6	18	
7 30	22 54.27	- 3 43.1	1.937	2.819	12.4	20.6	7 30	22 53.81	+ 1 51.4	1.580	2.453	15.2	20.3
8 9	22 48.83	- 4 1.8	1.863	2.812	9.0	20.4	8 9	22 48.78	+ 1 28.4	1.512	2.450	11.5	20.0
8 19	22 41.68	- 4 32.5	1.813	2.805	5.2	20.2	8 19	22 41.76	+ 0 45.0	1.465	2.448	7.4	19.8
8 29	22 33.51	- 5 11.8	1.790	2.798	1.5	19.9	8 29	22 33.55	- 0 15.5	1.443	2.445	3.8	19.6
9 8	22 25.19	- 5 54.9	1.793	2.790	3.7	20.0	9 8	22 25.20	- 1 26.8	1.447	2.443	4.6	19.6
9 18	22 17.64	- 6 36.8	1.825	2.783	7.7	20.3	9 18	22 17.76	- 2 41.1	1.477	2.441	8.6	19.9
9 28	22 11.66	- 7 12.5	1.881	2.776	11.3	20.5	9 28	22 12.20	- 3 50.5	1.531	2.439	12.6	20.1
10 8	22 7.82	- 7 38.6	1.959	2.768	14.5	20.7	10 8	22 9.13	- 4 48.9	1.606	2.436	16.2	20.3
<b>343445</b>	2010 EJ <sub>29</sub>		8 29.7 208°01	3°0/1.9	18		<b>96961</b>	1999 TZ <sub>184</sub>		8 29.7 343°70	2°2/30.9	18	
7 30	22 52.78	+ 3 19.4	2.066	2.920	12.9	21.0	7 30	22 59.93	- 5 18.3	1.482	2.372	15.0	18.8
8 9	22 47.70	+ 2 39.1	1.989	2.916	9.8	20.8	8 9	22 53.19	- 4 40.4	1.415	2.367	10.9	18.5
8 19	22 41.06	+ 1 40.5	1.934	2.911	6.4	20.5	8 19	22 44.14	- 4 12.4	1.370	2.362	6.4	18.2
8 29	22 33.47	+ 0 26.9	1.906	2.907	3.4	20.3	8 29	22 33.71	- 3 52.8	1.351	2.358	2.4	18.0
9 8	22 25.75	- 0 56.3	1.907	2.901	3.9	20.4	9 8	22 23.14	- 3 38.9	1.357	2.354	4.7	18.1
9 18	22 18.70	- 2 22.3	1.935	2.896	7.1	20.6	9 18	22 13.69	- 3 27.6	1.390	2.351	9.3	18.4
9 28	22 13.10	- 3 44.4	1.990	2.890	10.5	20.8	9 28	22 6.45	- 3 15.2	1.446	2.348	13.6	18.6
10 8	22 9.48	- 4 56.8	2.068	2.884	13.6	21.0	10 8	22 2.08	- 2 58.6	1.523	2.346	17.2	18.9
<b>161859</b>	2007 BN <sub>42</sub>		8 29.7 133°74	0°5/30.1	17		<b>225005</b>	2007 EW <sub>166</sub>		8 29.7 122°29	0°1/29.6	18	
7 30	22 55.90	- 5 0.8	1.811	2.697	12.9	20.7	7 30	22 53.46	- 7 57.9	2.461	3.347	9.9	20.6
8 9	22 49.92	- 5 42.7	1.755	2.707	9.1	20.5	8 9	22 47.88	- 8 21.7	2.402	3.355	7.0	20.4
8 19	22 42.21	- 6 36.4	1.722	2.717	5.0	20.3	8 19	22 41.04	- 8 51.8	2.368	3.364	3.7	20.3
8 29	22 33.54	- 7 37.0	1.716	2.726	0.7	20.0	8 29	22 33.51	- 9 24.9	2.362	3.372	0.2	20.0
9 8	22 24.88	- 8 37.9	1.739	2.735	3.9	20.2	9 8	22 25.99	- 9 57.0	2.386	3.380	3.2	20.3
9 18	22 17.16	- 9 33.1	1.788	2.743	8.1	20.5	9 18	22 19.14	-10 24.7	2.437	3.388	6.5	20.5
9 28	22 11.19	-10 18.0	1.863	2.751	11.7	20.8	9 28	22 13.58	-10 45.3	2.516	3.396	9.4	20.7
10 8	22 7.48	-10 49.5	1.959	2.759	14.8	21.0	10 8	22 9.71	-10 56.9	2.617	3.403	11.9	20.9
<b>252083</b>	2000 TV <sub>8</sub>		8 29.7 356°25	2°2/28.6	17		<b>259910</b>	2004 ET <sub>16</sub>		8 29.7 205°97	2°2/27.6	18	
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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>338039</b>	2002 <i>JO</i> <sub>81</sub>		8 29.7 104°09	6°0/ 5.1	17		<b>328179</b>	2008 <i>DS</i> <sub>27</sub>		8 29.7 151°99	0°1/29.6	17	
7 30	22 54.03	+10 58.1	1.928	2.744	15.1	21.0	7 30	22 57.43	- 6 50.5	1.732	2.623	13.1	22.0
8 9	22 48.56	+10 46.4	1.868	2.760	12.2	20.8	8 9	22 51.11	- 7 33.0	1.675	2.630	9.3	21.7
8 19	22 41.50	+10 11.3	1.829	2.775	9.2	20.6	8 19	22 42.92	- 8 26.3	1.641	2.637	4.9	21.5
8 29	22 33.54	+ 9 14.4	1.814	2.790	6.6	20.5	8 29	22 33.68	- 9 24.7	1.633	2.643	0.3	21.1
9 8	22 25.59	+ 8 0.3	1.826	2.805	6.1	20.5	9 8	22 24.43	-10 21.7	1.654	2.649	4.3	21.5
9 18	22 18.50	+ 6 35.6	1.865	2.819	7.9	20.7	9 18	22 16.17	-11 11.2	1.702	2.654	8.6	21.8
9 28	22 13.03	+ 5 8.2	1.930	2.833	10.6	20.9	9 28	22 9.78	-11 48.8	1.774	2.659	12.4	22.0
10 8	22 9.67	+ 3 45.4	2.018	2.847	13.4	21.1	10 8	22 5.80	-12 12.0	1.867	2.663	15.6	22.2
<b>245838</b>	2006 <i>KB</i> <sub>25</sub>		8 29.7 332°04	3°8/26.6	18		<b>23201</b>	2000 <i>SJ</i> <sub>42</sub>		8 29.7 260°28	3°1/ 1.1	18	
7 30	22 54.59	-16 23.4	1.562	2.478	12.8	20.5	7 30	22 55.75	+ 0 48.3	1.527	2.402	15.4	18.0
8 9	22 49.38	-17 17.5	1.504	2.472	9.0	20.3	8 9	22 50.38	+ 0 26.7	1.447	2.388	11.7	17.7
8 19	22 42.09	-18 14.3	1.469	2.466	5.2	20.0	8 19	22 42.77	- 0 15.5	1.387	2.372	7.4	17.4
8 29	22 33.59	-19 6.1	1.459	2.460	4.0	19.9	8 29	22 33.69	- 1 15.4	1.353	2.357	3.5	17.2
9 8	22 25.00	-19 45.5	1.475	2.455	7.0	20.1	9 8	22 24.26	- 2 26.5	1.344	2.341	4.7	17.2
9 18	22 17.44	-20 7.6	1.515	2.450	11.0	20.3	9 18	22 15.69	- 3 41.0	1.361	2.324	9.2	17.4
9 28	22 11.90	-20 10.1	1.578	2.445	14.7	20.6	9 28	22 9.10	- 4 50.4	1.402	2.308	13.7	17.6
10 8	22 8.96	-19 53.5	1.659	2.441	17.8	20.8	10 8	22 5.22	- 5 47.9	1.464	2.291	17.6	17.8
<b>321913</b>	2010 <i>TV</i> <sub>37</sub>		8 29.7 281°91	3°8/26.2	18		<b>306754</b>	2000 <i>YS</i> <sub>35</sub>		8 29.7 307°68	2°4/27.6	18	
7 30	22 55.84	-19 31.0	2.125	3.030	10.4	20.6	7 30	22 52.72	-11 14.8	1.466	2.380	13.6	19.2
8 9	22 49.84	-20 6.8	2.061	3.022	7.4	20.4	8 9	22 48.39	-12 22.5	1.384	2.353	9.5	18.9
8 19	22 42.20	-20 41.3	2.021	3.013	4.7	20.2	8 19	22 41.78	-13 42.3	1.325	2.325	5.1	18.6
8 29	22 33.61	-21 9.0	2.009	3.005	3.9	20.2	8 29	22 33.63	-15 6.2	1.291	2.298	2.5	18.3
9 8	22 24.96	-21 25.3	2.025	2.996	6.2	20.3	9 8	22 25.04	-16 24.5	1.283	2.271	6.5	18.5
9 18	22 17.12	-21 27.5	2.067	2.988	9.3	20.5	9 18	22 17.26	-17 28.6	1.299	2.245	11.4	18.7
9 28	22 10.87	-21 14.3	2.133	2.980	12.2	20.6	9 28	22 11.49	-18 12.2	1.337	2.219	15.9	18.9
10 8	22 6.74	-20 46.6	2.220	2.971	14.7	20.8	10 8	22 8.51	-18 32.7	1.393	2.193	19.7	19.1
<b>8259</b>	1983 <i>UG</i>		8 29.7 330°60	6°6/25.2	18 R		<b>481526</b>	2007 <i>HK</i> <sub>68</sub>		8 29.7 302°81	9°3/19.9	18	
7 30	22 51.90	-18 20.3	0.977	1.916	16.2	16.2	7 30	23 1.08	-39 11.4	2.264	3.134	11.3	20.6
8 9	22 48.51	-19 38.6	0.917	1.894	11.7	15.9	8 9	22 53.54	-40 3.3	2.225	3.130	9.9	20.5
8 19	22 42.06	-21 1.6	0.876	1.874	7.6	15.6	8 19	22 44.13	-40 38.9	2.209	3.127	9.3	20.4
8 29	22 33.61	-22 15.9	0.857	1.855	7.0	15.5	8 29	22 33.76	-40 51.8	2.218	3.124	9.7	20.4
9 8	22 24.78	-23 8.4	0.858	1.837	10.9	15.7	9 8	22 23.55	-40 38.8	2.251	3.120	11.0	20.5
9 18	22 17.31	-23 30.2	0.879	1.820	16.0	15.9	9 18	22 14.52	-39 59.9	2.306	3.117	12.7	20.6
9 28	22 12.74	-23 18.6	0.917	1.805	20.8	16.1	9 28	22 7.51	-38 57.7	2.383	3.114	14.4	20.8
10 8	22 11.88	-22 35.9	0.970	1.792	24.9	16.4	10 8	22 3.00	-37 37.0	2.477	3.111	16.0	20.9
<b>291290</b>	2006 <i>BW</i> <sub>129</sub>		8 29.7 74°61	0°6/30.2	17		<b>46719</b>	Plantade		8 29.7 26°15	2°5/ 1.0	18	
7 30	22 56.18	- 3 57.7	1.224	2.126	16.6	21.3	7 30	22 51.44	+ 0 25.4	1.546	2.428	14.9	18.6
8 9	22 50.62	- 4 53.8	1.181	2.141	11.8	21.0	8 9	22 47.07	+ 0 12.0	1.489	2.434	11.0	18.4
8 19	22 42.76	- 6 7.9	1.159	2.156	6.4	20.8	8 19	22 40.84	- 1 8.9	1.453	2.440	6.8	18.2
8 29	22 33.64	- 7 31.8	1.161	2.171	0.9	20.5	8 29	22 33.56	- 2 20.5	1.442	2.447	2.9	17.9
9 8	22 24.65	- 8 55.4	1.188	2.186	5.0	20.8	9 8	22 26.24	- 3 39.5	1.457	2.454	4.2	18.0
9 18	22 17.03	-10 9.1	1.240	2.201	10.2	21.1	9 18	22 19.89	- 4 57.7	1.497	2.462	8.4	18.3
9 28	22 11.83	-11 6.2	1.314	2.216	14.7	21.4	9 28	22 15.37	- 6 7.5	1.562	2.471	12.3	18.6
10 8	22 9.55	-11 43.4	1.407	2.230	18.4	21.7	10 8	22 13.21	- 7 3.7	1.648	2.479	15.7	18.8
<b>183751</b>	2003 <i>YR</i> <sub>169</sub>		8 29.7 356°78	9°8/19.8	18		<b>72419</b>	2001 <i>CJ</i> <sub>34</sub>		8 29.7 208°46	7°3/21.9	18	
7 30	22 55.05	-31 39.8	1.591	2.501	13.0	19.2	7 30	22 58.27	-29 34.4	2.080	2.977	10.9	18.8
8 9	22 49.82	-33 26.5	1.555	2.499	10.8	19.0	8 9	22 51.69	-30 50.6	2.031	2.973	8.7	18.7
8 19	22 42.36	-35 0.0	1.543	2.498	9.8	19.0	8 19	22 43.23	-31 57.7	2.007	2.968	7.4	18.6
8 29	22 33.62	-36 9.7	1.554	2.497	10.5	19.0	8 29	22 33.72	-32 48.1	2.009	2.963	7.8	18.6
9 8	22 24.89	-36 48.7	1.588	2.496	12.5	19.1	9 8	22 24.17	-33 16.4	2.038	2.958	9.6	18.7
9 18	22 17.38	-36 54.9	1.643	2.496	15.0	19.3	9 18	22 15.60	-33 20.4	2.090	2.952	12.0	18.9
9 28	22 12.13	-36 30.0	1.717	2.497	17.5	19.5	9 28	22 8.87	-33 0.9	2.164	2.945	14.3	19.0
10 8	22 9.69	-35 39.0	1.806	2.498	19.6	19.7	10 8	22 4.53	-32 20.8	2.257	2.939	16.3	19.2
<b>220956</b>	2005 <i>LR</i> <sub>48</sub>		8 29.7 16°08	4°4/ 1.4	18		<b>389145</b>	2009 <i>BC</i> <sub>6</sub>		8 29.7 273°13	6°8/22.4	18	
7 30	22 52.52	- 0 16.2	0.952	1.862	19.5	18.7	7 30	22 54.30	-24 4.0	1.754	2.668	11.7	20.4
8 9	22 48.48	+ 0 6.1	0.911	1.868	14.7	18.5	8 9	22 49.16	-25 50.9	1.702	2.661	8.9	20.2
8 19	22 41.78	+ 0 4.3	0.887	1.877	9.3	18.2	8 19	22 42.01	-27 34.3	1.674	2.653	7.0	20.1
8 29	22 33.59	- 0 18.7	0.884	1.888	4.8	18.0	8 29	22 33.65	-29 4.0	1.672	2.645	7.4	20.1
9 8	22 25.47	- 0 55.8	0.902	1.900	6.0	18.1	9 8	22 25.14	-30 12.0	1.696	2.637	9.8	20.2
9 18	22 18.90	- 1 38.3	0.942	1.914	10.8	18.5	9 18	22 17.57	-30 53.4	1.744	2.629	12.8	20.4
9 28	22 15.03	- 2 17.0	1.001	1.930	15.6	18.8	9 28	22 11.90	-31 7.2	1.813	2.621	15.6	20.5
10 8	22 14.42	- 2 45.1	1.078	1.946	19.7	19.1	10 8	22 8.75	-30 55.8	1.899	2.613	18.0	20.7
<b>131075</b>	2000 <i>YP</i> <sub>94</sub>		8 29.7 135°32	2°2/31.6	18		<b>218468</b>	2004 <i>RR</i> <sub>329</sub>		8 29.7 284°03	1°0/30.7	18	
7 30	22 55.11	- 1 27.5	1.822	2.697	13.3	19.9	7 30	22 52.45	- 4 27.4	2.220	3.101	11.0	20.2
8 9	22 49.45	- 1 42.2	1.758	2.701	9.8	19.7	8 9	22 47.44	- 4 48.2	2.141	3.090	8.0	20.0
8 19	22 42.03	- 2 11.1	1.716	2.704	5.9	19.5	8 19	22 40.96	- 5 19.1	2.087	3.079	4.5	19.7
8 29	22 33.61	- 2 51.2	1.701	2.707	2.4	19.3	8 29	22 33.58	- 5 57.2	2.060	3.068	1.2	19.5
9 8	22 25.13	- 3 37.2	1.713	2.709	3.9	19.4	9 8	22 26.07	- 6 38.1	2.061	3.058	3.3	19.6
9 18	22 17.52	- 4 23.7	1.752	2.712	7.8	19.6	9 18	22 19.17	- 7 17.4	2.089	3.047	6.9	19.8
9 28	22 11.60	- 5 5.3	1.816	2.715	11.4	19.9	9 28	22 13.61	- 7 50.9	2.144	3.036	10.3	20.0
10 8	22 7.92	- 5 37.9	1.901	2.717	14.6	20.1	10 8	22 9.91	- 8 15.6	2.221	3.026	13.1	20.2
<b>134112</b>	Jeremyralph		8 29.7 188°56	0°2/29.5	18		<b>446631</b>	2015 <i>ML</i> <sub>111</sub>		8 29.7 305°39			

EPHEMERIDES

8 29.7

8 29.7

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>481188</b>	2005 <i>US</i> <sub>338</sub>		8 29.7 260°84	3°5/26.3	18		<b>71223</b>	1999 <i>YF</i> <sub>10</sub>		8 29.7 213°57	1°7/28.0	18	
7 30	22 55.72	-18 48.2	2.218	3.121	10.1	22.0	7 30	22 54.57	-11 32.2	2.006	2.906	11.2	20.6
8 9	22 49.73	-19 24.1	2.152	3.112	7.2	21.8	8 9	22 49.04	-12 24.5	1.941	2.902	7.8	20.4
8 19	22 42.15	-19 59.2	2.111	3.104	4.4	21.6	8 19	22 41.85	-13 23.0	1.899	2.898	4.1	20.2
8 29	22 33.66	-20 28.5	2.098	3.095	3.6	21.5	8 29	22 33.69	-14 22.0	1.886	2.893	1.8	20.0
9 8	22 25.11	-20 47.4	2.113	3.087	5.8	21.6	9 8	22 25.42	-15 15.5	1.900	2.888	4.8	20.2
9 18	22 17.32	-20 53.1	2.155	3.078	8.9	21.8	9 18	22 17.93	-15 58.5	1.942	2.883	8.5	20.4
9 28	22 11.05	-20 44.2	2.222	3.069	11.8	22.0	9 28	22 12.01	-16 27.7	2.008	2.878	11.9	20.6
10 8	22 6.81	-20 21.2	2.309	3.060	14.2	22.2	10 8	22 8.20	-16 41.6	2.095	2.872	14.7	20.8
<b>224547</b>	2005 <i>WY</i> <sub>147</sub>		8 29.7 160°47	0°7/30.4	18		<b>255301</b>	2005 <i>VD</i> <sub>121</sub>		8 29.7 336°88	0°4/30.1	18	
7 30	22 52.68	-5 8.5	2.273	3.154	10.8	21.0	7 30	22 46.91	-2 32.5	1.498	2.398	14.2	19.4
8 9	22 47.50	-5 34.3	2.205	3.155	7.7	20.8	8 9	22 44.13	-3 59.9	1.420	2.379	10.2	19.1
8 19	22 40.95	-6 9.3	2.163	3.156	4.3	20.6	8 19	22 39.44	-5 49.9	1.365	2.362	5.6	18.8
8 29	22 33.60	-6 50.2	2.148	3.157	0.8	20.3	8 29	22 33.53	-7 55.1	1.335	2.345	0.7	18.4
9 8	22 26.19	-7 32.6	2.161	3.158	3.2	20.5	9 8	22 27.36	-10 4.8	1.331	2.329	4.6	18.7
9 18	22 19.46	-8 12.2	2.203	3.158	6.7	20.7	9 18	22 21.97	-12 7.5	1.353	2.314	9.5	18.9
9 28	22 14.06	-8 45.3	2.270	3.159	9.9	20.9	9 28	22 18.33	-13 53.0	1.399	2.301	14.0	19.1
10 8	22 10.45	-9 9.1	2.360	3.160	12.6	21.1	10 8	22 17.12	-15 15.0	1.465	2.288	17.8	19.4
<b>520414</b>	2014 <i>JW</i> <sub>88</sub>		8 29.7 45°05	1°3/28.4	18		<b>344803</b>	2004 <i>BM</i> <sub>24</sub>		8 29.7 266°52	1°6/31.2	18	
7 30	22 52.54	-10 3.0	1.858	2.761	11.8	20.8	7 30	22 54.71	-2 46.7	2.076	2.950	12.0	21.5
8 9	22 47.60	-10 54.5	1.805	2.768	8.1	20.6	8 9	22 49.22	-3 5.5	1.985	2.930	8.8	21.2
8 19	22 41.05	-11 53.3	1.777	2.776	4.2	20.3	8 19	22 42.02	-3 36.9	1.919	2.909	5.2	21.0
8 29	22 33.61	-12 53.5	1.774	2.783	1.3	20.2	8 29	22 33.71	-4 17.9	1.880	2.887	1.8	20.7
9 8	22 26.16	-13 48.9	1.800	2.791	4.6	20.4	9 8	22 25.12	-5 4.2	1.869	2.866	3.6	20.8
9 18	22 19.59	-14 34.3	1.851	2.799	8.4	20.7	9 18	22 17.14	-5 50.6	1.885	2.844	7.5	21.0
9 28	22 14.64	-15 6.0	1.928	2.807	11.8	20.9	9 28	22 10.61	-6 32.1	1.928	2.821	11.2	21.2
10 8	22 11.80	-15 22.4	2.025	2.815	14.7	21.1	10 8	22 6.14	-7 4.7	1.993	2.799	14.4	21.3
<b>383212</b>	2005 <i>YV</i> <sub>143</sub>		8 29.7 245°80	0°4/29.4	18		<b>509182</b>	2006 <i>JS</i> <sub>52</sub>		8 29.7 143°07	5°6/5.5	17	
7 30	22 55.97	-7 57.9	1.892	2.784	12.1	22.3	7 30	22 53.84	+12 2.1	2.254	3.054	13.7	22.2
8 9	22 50.16	-8 32.8	1.815	2.771	8.6	22.1	8 9	22 48.34	+11 45.0	2.184	3.065	11.2	22.0
8 19	22 42.51	-9 17.4	1.761	2.758	4.5	21.8	8 19	22 41.41	+11 6.5	2.137	3.075	8.5	21.9
8 29	22 33.71	-10 6.8	1.734	2.744	0.4	21.5	8 29	22 33.67	+10 7.8	2.114	3.084	6.3	21.8
9 8	22 24.70	-10 55.3	1.736	2.730	4.3	21.8	9 8	22 25.88	+8 52.8	2.119	3.093	5.7	21.7
9 18	22 16.44	-11 37.4	1.764	2.715	8.5	22.0	9 18	22 18.81	+7 27.5	2.151	3.102	7.2	21.9
9 28	22 9.85	-12 8.7	1.817	2.701	12.3	22.2	9 28	22 13.14	+5 58.5	2.211	3.110	9.7	22.0
10 8	22 5.53	-12 26.7	1.892	2.685	15.5	22.4	10 8	22 9.33	+4 32.8	2.295	3.117	12.2	22.2
<b>468423</b>	2000 <i>KZ</i> <sub>39</sub>		8 29.7 35°57	6°0/25.7	16		<b>86175</b>	1999 <i>RE</i> <sub>213</sub>		8 29.7 1°95	7°7/6.2	18	
7 30	22 57.53	-20 24.7	1.246	2.170	14.7	20.2	7 30	22 53.07	+13 28.5	1.960	2.762	15.4	18.7
8 9	22 51.63	-21 23.1	1.211	2.180	10.6	20.0	8 9	22 48.07	+14 3.2	1.888	2.761	12.9	18.5
8 19	22 43.31	-22 18.0	1.197	2.190	6.9	19.8	8 19	22 41.39	+14 15.2	1.835	2.761	10.4	18.4
8 29	22 33.75	-22 59.5	1.207	2.202	6.2	19.8	8 29	22 33.68	+14 3.4	1.805	2.761	8.4	18.3
9 8	22 24.40	-23 20.4	1.241	2.214	9.1	20.0	9 8	22 25.80	+13 29.6	1.801	2.762	7.8	18.2
9 18	22 16.59	-23 17.5	1.298	2.226	13.0	20.3	9 18	22 18.66	+12 38.3	1.821	2.763	9.0	18.3
9 28	22 11.34	-22 51.5	1.375	2.239	16.6	20.5	9 28	22 13.08	+11 36.0	1.866	2.764	11.2	18.5
10 8	22 9.12	-22 5.5	1.469	2.253	19.6	20.8	10 8	22 9.62	+10 30.3	1.934	2.765	13.7	18.6
<b>157195</b>	2004 <i>QX</i> <sub>19</sub>		8 29.7 347°79	1°8/31.7	18		<b>260399</b>	2004 <i>XA</i> <sub>2</sub>		8 29.7 310°94	7°1/4.9	17	
7 30	22 50.03	-0 20.5	1.964	2.839	12.5	19.6	7 30	22 53.77	+11 15.8	2.059	2.869	14.5	20.2
8 9	22 45.86	-1 8.0	1.893	2.837	9.2	19.4	8 9	22 48.62	+11 57.7	1.969	2.852	12.1	20.0
8 19	22 40.16	-2 11.5	1.846	2.834	5.5	19.1	8 19	22 41.74	+12 20.4	1.900	2.835	9.6	19.8
8 29	22 33.56	-3 26.9	1.825	2.832	2.1	18.9	8 29	22 33.71	+12 22.1	1.855	2.818	7.6	19.6
9 8	22 26.86	-4 48.0	1.832	2.830	3.5	19.0	9 8	22 25.37	+12 3.9	1.835	2.801	7.2	19.6
9 18	22 20.86	-6 8.0	1.867	2.828	7.3	19.2	9 18	22 17.62	+11 29.0	1.842	2.785	8.8	19.6
9 28	22 16.30	-7 20.6	1.926	2.827	10.8	19.5	9 28	22 11.32	+10 43.0	1.873	2.769	11.3	19.8
10 8	22 13.69	-8 20.9	2.009	2.826	13.8	19.7	10 8	22 7.11	+9 52.6	1.926	2.753	14.0	19.9
<b>196320</b>	2003 <i>FE</i> <sub>40</sub>		8 29.7 58°70	2°2/31.5	18		<b>291447</b>	2006 <i>DH</i> <sub>40</sub>		8 29.7 190°91	4°6/2.8	18	R
7 30	22 54.87	-1 17.7	1.448	2.334	15.5	19.9	7 30	22 57.28	+5 7.2	2.095	2.931	13.3	20.9
8 9	22 49.48	-1 46.1	1.401	2.350	11.3	19.7	8 9	22 50.90	+5 23.5	2.018	2.930	10.5	20.7
8 19	22 42.12	-2 32.1	1.375	2.365	6.7	19.5	8 19	22 42.85	+5 23.4	1.965	2.929	7.4	20.5
8 29	22 33.69	-3 30.8	1.374	2.381	2.5	19.2	8 29	22 33.79	+5 7.7	1.938	2.927	5.0	20.4
9 8	22 25.35	-4 34.8	1.399	2.397	4.3	19.4	9 8	22 24.57	+4 38.9	1.939	2.924	5.0	20.4
9 18	22 18.16	-5 36.5	1.450	2.413	8.7	19.7	9 18	22 16.09	+4 1.5	1.967	2.921	7.5	20.5
9 28	22 13.03	-6 29.4	1.524	2.430	12.8	20.0	9 28	22 9.15	+3 20.7	2.022	2.918	10.6	20.7
10 8	22 10.45	-7 8.9	1.619	2.446	16.2	20.3	10 8	22 4.31	+2 41.7	2.099	2.914	13.4	20.9
<b>372827</b>	2010 <i>UH</i> <sub>54</sub>		8 29.7 200°40	4°0/1.8	18		<b>318229</b>	2004 <i>RL</i> <sub>219</sub>		8 29.7 355°77	5°9/4.6	18	
7 30	22 56.36	+2 21.6	1.516	2.385	15.9	21.4	7 30	22 51.41	+9 4.1	1.914	2.745	14.6	19.8
8 9	22 50.68	+2 15.0	1.449	2.384	12.1	21.1	8 9	22 46.91	+9 13.9	1.841	2.743	11.8	19.6
8 19	22 42.87	+1 47.8	1.403	2.383	7.9	20.9	8 19	22 40.77	+9 2.4	1.789	2.741	8.9	19.5
8 29	22 33.76	+1 2.4	1.382	2.382	4.4	20.7	8 29	22 33.64	+8 30.2	1.761	2.740	6.5	19.3
9 8	22 24.49	+0 4.4	1.386	2.380	5.1	20.7	9 8	22 26.39	+7 40.5	1.759	2.739	6.1	19.3
9 18	22 16.22	+0 58.8	1.416	2.379	8.9	20.9	9 18	22 19.86	+6 38.7	1.783	2.739	8.0	19.4
9 28	22 9.98	+1 59.5	1.469	2.377	13.0	21.2	9 28	22 14.85	+5 31.8	1.831	2.739	10.9	19.6
10 8	22 6.40	+2 51.1	1.544	2.375	16.7	21.4	10 8	22 11.92	+4 26.6	1.902	2.739	13.7	19.8
<b>112389</b>	2002 <i>NC</i> <sub>31</sub>		8 29.7 51°19	3°6/27.0	18		<b>112420</b>	2002 <i>NF</i> <sub>46</sub>		8 29.7 53°03	3°5/1.1	18	
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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>73074</b>	2002 <i>GF</i> <sub>4</sub>		8 29.7 30°48'	7.8/5.1	18		<b>249760</b>	2000 <i>TD</i> <sub>49</sub>		8 29.7 329°55'	6.4/23.9	18	
7 30	22 52.04	+ 9 53.9	1.087	1.951	21.0	18.6	7 30	22 54.50	-24 3.9	1.720	2.635	11.9	19.7
8 9	22 48.03	+ 9 56.1	1.039	1.961	17.0	18.3	8 9	22 49.32	-25 9.0	1.663	2.623	8.9	19.5
8 19	22 41.57	+ 9 22.6	1.009	1.972	12.6	18.1	8 19	22 42.14	-26 9.5	1.630	2.613	6.7	19.4
8 29	22 33.71	+ 8 14.9	0.998	1.984	8.9	18.0	8 29	22 33.79	-26 57.1	1.622	2.603	6.7	19.3
9 8	22 25.84	+ 6 41.0	1.009	1.997	8.0	18.0	9 8	22 25.33	-27 25.3	1.639	2.593	9.0	19.4
9 18	22 19.32	+ 4 52.8	1.043	2.011	10.7	18.2	9 18	22 17.87	-27 30.6	1.680	2.584	12.1	19.6
9 28	22 15.28	+ 3 4.3	1.098	2.025	14.7	18.5	9 28	22 12.34	-27 12.6	1.743	2.575	15.1	19.8
10 8	22 14.29	+ 1 27.0	1.173	2.040	18.5	18.7	10 8	22 9.33	-26 33.6	1.823	2.567	17.7	20.0
<b>404342</b>	2013 <i>FO</i> <sub>23</sub>		8 29.7 85°90'	0.4/29.3	18		<b>519613</b>	2012 <i>UZ</i> <sub>180</sub>		8 29.7 79°94'	1.6/28.3	16	
7 30	22 53.28	- 8 38.3	2.252	3.143	10.5	21.4	7 30	22 55.58	-10 40.9	1.680	2.584	12.8	21.2
8 9	22 47.87	- 9 11.8	2.200	3.157	7.3	21.2	8 9	22 49.81	-11 33.9	1.636	2.599	8.8	21.0
8 19	22 41.13	- 9 51.8	2.173	3.170	3.8	21.0	8 19	22 42.27	-12 33.7	1.616	2.615	4.6	20.8
8 29	22 33.67	-10 34.1	2.174	3.184	0.5	20.8	8 29	22 33.79	-13 33.6	1.622	2.630	1.6	20.7
9 8	22 26.26	-11 14.2	2.203	3.197	3.6	21.1	9 8	22 25.41	-14 26.8	1.655	2.646	5.1	20.9
9 18	22 19.59	-11 48.2	2.261	3.210	7.0	21.3	9 18	22 18.09	-15 8.1	1.715	2.661	9.1	21.2
9 28	22 14.32	-12 13.1	2.344	3.224	10.0	21.5	9 28	22 12.64	-15 34.3	1.798	2.676	12.6	21.5
10 8	22 10.85	-12 27.2	2.449	3.237	12.5	21.7	10 8	22 9.53	-15 44.3	1.902	2.691	15.6	21.7
<b>514820</b>	2007 <i>VB</i> <sub>116</sub>		8 29.7 275°90'	5.7/23.9	18		<b>164585</b>	Oenomaos		8 29.7 309°95'	3.2/5.1	17	
7 30	22 55.06	-22 39.0	1.911	2.821	11.1	21.3	7 30	22 46.14	+ 9 43.2	4.324	5.119	7.7	20.0
8 9	22 49.61	-23 55.6	1.847	2.807	8.2	21.1	8 9	22 42.52	+ 9 37.8	4.239	5.117	6.2	19.9
8 19	22 42.26	-25 10.0	1.808	2.792	6.0	21.0	8 19	22 38.22	+ 9 22.2	4.178	5.115	4.8	19.8
8 29	22 33.76	-26 14.0	1.796	2.778	6.1	21.0	8 29	22 33.53	+ 8 57.2	4.144	5.112	3.6	19.7
9 8	22 25.08	-27 0.9	1.810	2.763	8.4	21.1	9 8	22 28.78	+ 8 24.2	4.138	5.110	3.3	19.7
9 18	22 17.25	-27 26.3	1.849	2.749	11.4	21.2	9 18	22 24.33	+ 7 45.4	4.161	5.108	4.2	19.7
9 28	22 11.17	-27 29.1	1.910	2.734	14.3	21.4	9 28	22 20.51	+ 7 3.3	4.212	5.106	5.6	19.8
10 8	22 7.45	-27 10.7	1.990	2.719	16.9	21.6	10 8	22 17.59	+ 6 20.8	4.289	5.104	7.1	19.9
<b>404343</b>	2013 <i>FN</i> <sub>24</sub>		8 29.7 99°54'	0.7/28.9	18		<b>260707</b>	2005 <i>JW</i> <sub>136</sub>		8 29.7 215°99'	3.5/26.6	17	
7 30	22 53.39	- 9 29.3	2.314	3.206	10.2	21.5	7 30	22 57.39	-14 58.7	1.675	2.583	12.6	21.4
8 9	22 47.94	-10 4.0	2.261	3.218	7.1	21.3	8 9	22 51.37	-16 12.4	1.612	2.577	8.8	21.2
8 19	22 41.16	-10 44.5	2.232	3.230	3.7	21.1	8 19	22 43.26	-17 30.9	1.573	2.570	5.0	21.0
8 29	22 33.68	-11 26.6	2.232	3.242	0.7	20.9	8 29	22 33.89	-18 46.0	1.561	2.563	3.7	20.9
9 8	22 26.23	-12 5.8	2.261	3.253	3.6	21.2	9 8	22 24.36	-19 49.5	1.576	2.555	6.8	21.0
9 18	22 19.50	-12 38.5	2.317	3.265	7.0	21.4	9 18	22 15.80	-20 35.3	1.617	2.547	10.8	21.3
9 28	22 14.14	-13 1.8	2.399	3.276	9.9	21.6	9 28	22 9.20	-21 0.4	1.681	2.539	14.4	21.5
10 8	22 10.55	-13 14.2	2.504	3.287	12.4	21.8	10 8	22 5.18	-21 4.8	1.764	2.529	17.5	21.7
<b>408052</b>	2012 <i>FM</i> <sub>74</sub>		8 29.7 264°15'	2.0/31.6	17		<b>506289</b>	2017 <i>BS</i> <sub>43</sub>		8 29.7 253°97'	1.8/27.5	18	
7 30	22 55.40	- 2 26.1	2.385	3.250	10.9	20.5	7 30	22 51.18	-12 22.7	2.431	3.331	9.5	21.4
8 9	22 49.44	- 2 15.2	2.305	3.243	8.1	20.3	8 9	22 46.49	-13 21.1	2.364	3.326	6.6	21.2
8 19	22 42.03	- 2 13.8	2.250	3.235	4.9	20.1	8 19	22 40.48	-14 24.4	2.322	3.320	3.5	21.0
8 29	22 33.76	- 2 20.1	2.222	3.227	2.2	19.9	8 29	22 33.69	-15 27.6	2.308	3.314	1.9	20.8
9 8	22 25.36	- 2 31.5	2.224	3.219	3.4	20.0	9 8	22 26.82	-16 25.6	2.324	3.309	4.4	21.0
9 18	22 17.57	- 2 45.1	2.254	3.211	6.5	20.2	9 18	22 20.54	-17 13.9	2.367	3.303	7.5	21.2
9 28	22 11.10	- 2 57.5	2.310	3.203	9.6	20.4	9 28	22 15.48	-17 49.5	2.435	3.297	10.3	21.4
10 8	22 6.45	- 3 5.8	2.390	3.195	12.3	20.6	10 8	22 12.12	-18 11.0	2.525	3.291	12.8	21.6
<b>36201</b>	1999 <i>TE</i> <sub>98</sub>		8 29.7 315°39'	6.5/22.9	18		<b>27140</b>	1998 <i>XW</i> <sub>49</sub>		8 29.7 170°98'	2.0/3/27.6	18	
7 30	22 54.12	-25 49.9	1.962	2.872	10.9	17.8	7 30	22 56.91	-14 50.6	2.133	3.032	10.7	18.3
8 9	22 48.87	-27 2.6	1.908	2.862	8.4	17.7	8 9	22 50.57	-15 21.2	2.073	3.033	7.4	18.1
8 19	22 41.83	-28 9.7	1.877	2.853	6.6	17.5	8 19	22 42.65	-15 53.8	2.038	3.035	4.1	17.9
8 29	22 33.74	-29 3.6	1.873	2.844	6.9	17.5	8 29	22 33.86	-16 23.6	2.032	3.036	2.3	17.8
9 8	22 25.57	-29 38.1	1.894	2.835	8.9	17.7	9 8	22 25.05	-16 46.1	2.053	3.037	4.9	18.0
9 18	22 18.27	-29 50.4	1.940	2.827	11.6	17.8	9 18	22 17.08	-16 58.0	2.102	3.038	8.3	18.2
9 28	22 12.71	-29 39.9	2.007	2.818	14.2	18.0	9 28	22 10.69	-16 57.6	2.176	3.039	11.4	18.4
10 8	22 9.43	-29 8.7	2.093	2.810	16.5	18.1	10 8	22 6.36	-16 44.6	2.272	3.039	14.0	18.6
<b>188235</b>	2002 <i>UU</i> <sub>74</sub>		8 29.7 34°71'	1.9/28.3	17		<b>46143</b>	2001 <i>FO</i> <sub>60</sub>		8 29.7 80°67'	0.9/28.8	18	
7 30	22 53.91	- 9 48.0	1.063	1.987	16.6	19.1	7 30	22 52.36	- 9 42.3	2.259	3.153	10.3	19.0
8 9	22 49.25	-10 50.2	1.029	2.002	11.5	18.9	8 9	22 47.31	-10 22.6	2.200	3.159	7.2	18.8
8 19	22 42.14	-12 3.5	1.017	2.018	5.9	18.6	8 19	22 40.90	-11 9.1	2.167	3.165	3.7	18.6
8 29	22 33.76	-13 17.6	1.026	2.035	2.0	18.4	8 29	22 33.74	-11 57.3	2.161	3.170	0.9	18.4
9 8	22 25.59	-14 22.0	1.060	2.053	6.5	18.8	9 8	22 26.56	-12 42.4	2.184	3.176	3.8	18.7
9 18	22 18.95	-15 8.9	1.115	2.072	11.6	19.1	9 18	22 20.08	-13 20.3	2.234	3.182	7.2	18.9
9 28	22 14.88	-15 34.3	1.192	2.092	16.1	19.5	9 28	22 14.95	-13 47.8	2.310	3.187	10.2	19.1
10 8	22 13.83	-15 37.7	1.286	2.112	19.6	19.8	10 8	22 11.62	-14 3.4	2.408	3.193	12.8	19.3
<b>290947</b>	2005 <i>WX</i> <sub>159</sub>		8 29.7 169°31'	0.0/29.8	18		<b>389199</b>	2009 <i>CH</i> <sub>54</sub>		8 29.7 142°33'	2.4/27.4	16	
7 30	22 52.46	- 6 52.2	2.567	3.449	9.7	21.4	7 30	22 55.59	-14 24.0	2.173	3.072	10.4	21.9
8 9	22 47.26	- 7 26.0	2.500	3.452	6.8	21.2	8 9	22 49.60	-15 11.3	2.119	3.080	7.2	21.7
8 19	22 40.82	- 8 7.0	2.459	3.454	3.6	21.0	8 19	22 42.12	-16 1.1	2.091	3.088	4.0	21.5
8 29	22 33.68	- 8 52.0	2.446	3.456	0.3	20.7	8 29	22 33.83	-16 48.3	2.091	3.095	2.4	21.4
9 8	22 26.50	- 9 36.6	2.462	3.457	3.1	21.0	9 8	22 25.54	-17 27.7	2.119	3.102	5.0	21.6
9 18	22 19.91	-10 17.1	2.507	3.458	6.3	21.2	9 18	22 18.07	-17 55.6	2.175	3.108	8.2	21.8
9 28	22 14.52	-10 50.3	2.579	3.459	9.2	21.4	9 28	22 12.12	-18 10.0	2.256	3.114	11.2	22.0
10 8	22 10.73	-11 13.9	2.674	3.460	11.6	21.5	10 8	22 8.15	-18 10.4	2.358	3.120	13.7	22.2
<b>428623</b>	2008 <i>FC</i> <sub>50</sub>		8 29.7 188°48'	4.9/25.6	17		<b>374016</b>	2004 <i>DD</i> <sub>43</sub>		8 29.7 1			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>5433</b>	<b>Kairen</b>		8 29.7 293°64	5°2/ 2.6	18		<b>101440</b>	<b>1998 VO<sub>41</sub></b>		8 29.8 294°29	1°0/30.5	18	
7 30	22 55.33	+ 4 30.3	1.648	2.505	15.4	16.3	7 30	22 54.89	- 4 25.9	1.467	2.362	14.8	20.3
8 9	22 50.13	+ 4 47.2	1.556	2.480	12.2	16.1	8 9	22 49.95	- 4 53.5	1.385	2.341	10.7	20.0
8 19	22 42.75	+ 4 44.4	1.485	2.456	8.6	15.8	8 19	22 42.71	- 5 37.5	1.326	2.320	6.1	19.7
8 29	22 33.89	+ 4 21.6	1.438	2.431	5.7	15.6	8 29	22 33.94	- 6 33.2	1.290	2.299	1.3	19.3
9 8	22 24.56	+ 3 42.0	1.417	2.406	5.9	15.5	9 8	22 24.76	- 7 33.6	1.281	2.279	4.7	19.5
9 18	22 15.92	+ 2 51.0	1.421	2.382	9.2	15.7	9 18	22 16.43	- 8 31.1	1.296	2.258	9.8	19.8
9 28	22 9.06	+ 1 55.7	1.449	2.357	13.1	15.8	9 28	22 10.11	- 9 18.5	1.335	2.237	14.5	20.0
10 8	22 4.79	+ 1 3.8	1.498	2.333	16.9	16.0	10 8	22 6.59	- 9 51.0	1.393	2.217	18.5	20.2
<b>50129</b>	<b>2000 AN<sub>125</sub></b>		8 29.7 86°51	2°1/27.6	18		<b>207217</b>	<b>2005 EX<sub>87</sub></b>		8 29.8 204°98	1°3/31.1	18	
7 30	22 53.29	-11 17.2	1.824	2.729	11.8	18.6	7 30	22 53.59	- 2 38.9	1.988	2.866	12.3	20.5
8 9	22 48.20	-12 32.6	1.775	2.739	8.2	18.4	8 9	22 48.40	- 3 13.2	1.918	2.864	8.9	20.3
8 19	22 41.45	-13 54.8	1.750	2.749	4.3	18.2	8 19	22 41.60	- 4 0.8	1.871	2.862	5.2	20.1
8 29	22 33.79	-15 16.4	1.752	2.758	2.2	18.1	8 29	22 33.85	- 4 57.7	1.852	2.860	1.6	19.8
9 8	22 26.12	-16 30.1	1.781	2.768	5.3	18.3	9 8	22 25.99	- 5 58.5	1.860	2.857	3.6	20.0
9 18	22 19.35	-17 30.1	1.837	2.777	9.0	18.5	9 18	22 18.87	- 6 57.4	1.896	2.855	7.4	20.2
9 28	22 14.25	-18 12.6	1.918	2.787	12.4	18.8	9 28	22 13.27	- 7 49.1	1.957	2.852	11.0	20.4
10 8	22 11.32	-18 36.7	2.019	2.796	15.2	19.0	10 8	22 9.70	- 8 29.8	2.041	2.849	14.0	20.6
<b>48577</b>	<b>1994 PD<sub>8</sub></b>		8 29.7 321°54	0°6/30.1	18		<b>511004</b>	<b>2013 NN<sub>21</sub></b>		8 29.8 352°93	3°4/27.6	18	
7 30	22 56.87	- 7 12.1	1.299	2.205	15.6	18.5	7 30	22 46.15	-12 10.2	0.792	1.740	17.8	19.4
8 9	22 51.43	- 7 13.4	1.231	2.192	11.2	18.2	8 9	22 44.60	-13 3.7	0.744	1.728	12.5	19.1
8 19	22 43.48	- 7 26.6	1.183	2.180	6.2	17.9	8 19	22 40.10	-14 10.2	0.714	1.718	6.7	18.7
8 29	22 33.94	- 7 47.4	1.159	2.169	0.8	17.5	8 29	22 33.75	-15 18.1	0.702	1.710	3.5	18.5
9 8	22 24.14	- 8 9.8	1.160	2.158	5.0	17.8	9 8	22 27.24	-16 14.0	0.710	1.705	8.4	18.8
9 18	22 15.45	- 8 27.9	1.185	2.148	10.4	18.1	9 18	22 22.23	-16 47.6	0.737	1.702	14.3	19.1
9 28	22 9.11	- 8 36.7	1.232	2.138	15.2	18.3	9 28	22 20.12	-16 53.3	0.781	1.702	19.6	19.4
10 8	22 5.84	- 8 33.3	1.298	2.129	19.2	18.6	10 8	22 21.57	-16 30.8	0.839	1.705	24.0	19.7
<b>216725</b>	<b>2005 GV<sub>43</sub></b>		8 29.7 40°89	1°6/30.8	17		<b>151118</b>	<b>Elizabethsears</b>		8 29.8 285°11	2°5/27.8	18	
7 30	22 56.92	- 4 13.0	1.087	1.994	17.8	19.7	7 30	22 56.14	-12 19.4	1.463	2.375	13.8	18.7
8 9	22 51.32	- 4 23.6	1.051	2.012	12.8	19.5	8 9	22 50.74	-13 11.9	1.397	2.364	9.7	18.4
8 19	22 43.25	- 4 51.6	1.034	2.030	7.2	19.2	8 19	22 43.07	-14 12.5	1.354	2.353	5.2	18.1
8 29	22 33.92	- 5 31.1	1.040	2.049	1.9	19.0	8 29	22 33.98	-15 13.5	1.335	2.342	2.5	18.0
9 8	22 24.81	- 6 14.2	1.070	2.069	5.1	19.2	9 8	22 24.67	-16 6.5	1.342	2.331	6.3	18.2
9 18	22 17.29	- 6 53.2	1.123	2.089	10.3	19.6	9 18	22 16.40	-16 45.0	1.375	2.320	10.9	18.4
9 28	22 12.39	- 7 21.8	1.197	2.110	14.9	19.9	9 28	22 10.25	-17 4.9	1.429	2.310	15.1	18.6
10 8	22 10.59	- 7 36.4	1.290	2.132	18.7	20.3	10 8	22 6.90	-17 5.3	1.502	2.299	18.7	18.8
<b>95582</b>	<b>2002 EJ<sub>153</sub></b>		8 29.7 65°59	6°2/ 6.4	18		<b>55844</b>	<b>Bicak</b>		8 29.8 18°26	18°5/ 8.5	18	
7 30	22 51.42	+13 13.2	2.145	2.945	14.3	19.4	7 30	23 3.68	+21 9.3	1.027	1.824	26.5	17.1
8 9	22 46.71	+13 1.6	2.085	2.961	11.8	19.3	8 9	22 57.08	+23 55.3	0.975	1.825	23.9	16.9
8 19	22 40.61	+12 27.4	2.045	2.978	9.1	19.1	8 19	22 46.92	+26 2.9	0.938	1.827	21.3	16.7
8 29	22 33.75	+11 31.8	2.029	2.994	6.9	19.0	8 29	22 34.28	+27 19.5	0.917	1.829	19.3	16.6
9 8	22 26.88	+10 18.9	2.040	3.011	6.2	19.0	9 8	22 21.03	+27 39.7	0.913	1.832	18.5	16.6
9 18	22 20.76	+ 8 54.4	2.077	3.028	7.5	19.1	9 18	22 9.26	+27 6.9	0.928	1.834	19.1	16.6
9 28	22 16.04	+ 7 25.6	2.141	3.044	9.8	19.3	9 28	22 0.81	+25 53.6	0.959	1.838	20.9	16.8
10 8	22 13.16	+ 5 59.5	2.229	3.061	12.2	19.5	10 8	21 56.68	+24 17.5	1.005	1.842	23.2	16.9
<b>14005</b>	<b>1993 SO<sub>3</sub></b>		8 29.7 346°37	5°7/24.4	18		<b>22080</b>	<b>Emilevasseur</b>		8 29.8 87°63	2°3/31.4	18	
7 30	22 57.12	-25 47.5	2.134	3.036	10.5	17.0	7 30	22 59.00	- 2 39.7	1.436	2.322	15.6	17.6
8 9	22 50.79	-26 30.1	2.083	3.036	7.9	16.9	8 9	22 52.55	- 2 39.2	1.382	2.331	11.4	17.3
8 19	22 42.79	-27 6.2	2.057	3.035	6.0	16.7	8 19	22 43.92	- 2 54.2	1.349	2.339	6.8	17.1
8 29	22 33.91	-27 29.7	2.058	3.034	5.9	16.7	8 29	22 34.06	- 3 21.1	1.342	2.348	2.6	16.9
9 8	22 25.06	-27 36.5	2.085	3.033	7.8	16.9	9 8	22 24.21	- 3 54.4	1.360	2.357	4.6	17.0
9 18	22 17.15	-27 24.8	2.138	3.033	10.3	17.0	9 18	22 15.57	- 4 28.1	1.403	2.366	9.1	17.3
9 28	22 10.95	-26 54.9	2.214	3.032	12.8	17.2	9 28	22 9.15	- 4 56.5	1.471	2.374	13.3	17.6
10 8	22 6.92	-26 9.1	2.310	3.032	15.0	17.4	10 8	22 5.51	- 5 15.3	1.558	2.383	16.8	17.8
<b>461152</b>	<b>2015 TY<sub>114</sub></b>		8 29.7 253°07	2°1/ 1.4	18		<b>357701</b>	<b>2005 PT<sub>15</sub></b>		8 29.8 329°33	0°4/29.5	18	
7 30	22 50.24	+ 0 55.3	2.620	3.478	10.3	22.0	7 30	22 57.13	- 9 57.9	1.864	2.760	12.1	20.4
8 9	22 45.77	+ 0 24.6	2.539	3.470	7.7	21.8	8 9	22 50.97	- 9 59.4	1.797	2.755	8.5	20.2
8 19	22 40.11	- 0 18.6	2.483	3.463	4.9	21.6	8 19	22 43.01	-10 6.8	1.753	2.750	4.5	19.9
8 29	22 33.73	- 1 11.8	2.453	3.456	2.4	21.4	8 29	22 34.00	-10 16.3	1.736	2.746	0.5	19.6
9 8	22 27.24	- 2 11.2	2.453	3.449	3.0	21.4	9 8	22 24.91	-10 24.0	1.747	2.742	4.1	19.9
9 18	22 21.25	- 3 12.3	2.481	3.441	5.8	21.6	9 18	22 16.69	-10 26.5	1.785	2.738	8.2	20.1
9 28	22 16.35	- 4 10.5	2.537	3.434	8.7	21.8	9 28	22 10.22	-10 21.1	1.847	2.734	11.9	20.3
10 8	22 12.98	- 5 1.9	2.616	3.426	11.2	22.0	10 8	22 6.03	-10 6.6	1.931	2.731	15.0	20.5
<b>71216</b>	<b>1999 YP<sub>1</sub></b>		8 29.7 288°79	0°7/29.1	18		<b>391625</b>	<b>2007 VY<sub>108</sub></b>		8 29.8 9°90	2°3/31.7	16	
7 30	22 52.42	- 6 23.3	1.769	2.665	12.6	19.6	7 30	22 53.37	- 1 17.3	1.622	2.505	14.3	21.3
8 9	22 47.94	- 7 40.2	1.680	2.639	8.9	19.3	8 9	22 48.50	- 1 33.1	1.560	2.506	10.5	21.0
8 19	22 41.54	- 9 12.9	1.615	2.613	4.7	19.0	8 19	22 41.75	- 2 4.9	1.519	2.507	6.4	20.8
8 29	22 33.84	-10 55.0	1.578	2.587	0.7	18.7	8 29	22 33.91	- 2 49.4	1.503	2.509	2.7	20.6
9 8	22 25.77	-12 37.8	1.567	2.561	4.8	18.9	9 8	22 25.98	- 3 40.8	1.514	2.511	4.1	20.7
9 18	22 18.34	-14 12.5	1.584	2.534	9.3	19.1	9 18	22 18.98	- 4 32.6	1.550	2.514	8.2	20.9
9 28	22 12.53	-15 31.6	1.625	2.508	13.5	19.3	9 28	22 13.78	- 5 18.7	1.610	2.517	12.2	21.2
10 8	22 9.06	-16 30.8	1.687	2.481	17.0	19.5	10 8	22 10.96	- 5 54.4	1.692	2.520	15.6	21.4
<b>225711</b>	<b>Danyzy</b>		8 29.8 38°73	0°1/29.8	17		<b>255177</b>	<b>2005 UA<sub>239</sub></b>		8 29.8 159°41	4°7/23.9	18	

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>20113</b>	1995 <i>SL</i> <sub>35</sub>		8 29.8 248°31	10°0/22.1	18		<b>120845</b>	1998 <i>KU</i> <sub>63</sub>		8 29.8 154°24	1°1/28.7	18	
7 30	23 6.71	-36 33.5	1.815	2.694	13.2	18.9	7 30	22 55.30	-9 28.0	2.130	3.021	11.0	20.1
8 9	22 57.89	-37 20.9	1.770	2.690	11.2	18.8	8 9	22 49.49	-10 23.4	2.071	3.029	7.6	19.9
8 19	22 46.69	-37 50.3	1.747	2.685	10.1	18.7	8 19	22 42.16	-11 25.9	2.038	3.036	3.9	19.7
8 29	22 34.26	-37 53.7	1.749	2.680	10.4	18.7	8 29	22 33.98	-12 30.1	2.034	3.042	1.1	19.5
9 8	22 22.04	-37 26.9	1.776	2.675	11.9	18.8	9 8	22 25.77	-13 30.2	2.057	3.048	4.2	19.8
9 18	22 11.35	-36 30.6	1.825	2.670	14.2	18.9	9 18	22 18.34	-14 21.2	2.109	3.054	7.8	20.0
9 28	22 3.24	-35 8.9	1.896	2.665	16.4	19.1	9 28	22 12.42	-14 59.7	2.187	3.058	11.0	20.2
10 8	21 58.19	-33 28.0	1.985	2.660	18.4	19.3	10 8	22 8.46	-15 24.0	2.286	3.063	13.7	20.4
<b>516497</b>	2005 <i>WP</i> <sub>210</sub>		8 29.8 260°07	4°3/24.9	18		<b>481528</b>	2007 <i>HX</i> <sub>79</sub>		8 29.8 199°56	9°0/17.0	18	
7 30	22 53.36	-20 24.1	2.238	3.145	9.8	21.7	7 30	23 1.25	-44 5.6	2.858	3.699	10.0	21.5
8 9	22 48.19	-21 30.3	2.178	3.139	7.1	21.5	8 9	22 53.63	-45 8.0	2.825	3.696	9.2	21.4
8 19	22 41.49	-22 35.5	2.144	3.132	4.8	21.3	8 19	22 44.33	-45 54.4	2.815	3.692	9.0	21.4
8 29	22 33.90	-23 33.4	2.137	3.126	4.5	21.3	8 29	22 34.14	-46 19.3	2.830	3.688	9.5	21.4
9 8	22 26.22	-24 18.7	2.158	3.119	6.6	21.4	9 8	22 24.02	-46 19.9	2.869	3.683	10.5	21.5
9 18	22 19.26	-24 47.6	2.204	3.112	9.4	21.6	9 18	22 14.89	-45 56.3	2.930	3.678	11.7	21.6
9 28	22 13.74	-24 58.5	2.275	3.106	12.1	21.8	9 28	22 7.53	-45 10.5	3.010	3.673	13.0	21.7
10 8	22 10.17	-24 52.0	2.366	3.099	14.4	21.9	10 8	22 2.41	-44 6.3	3.107	3.668	14.1	21.8
<b>311970</b>	2007 <i>EL</i> <sub>35</sub>		8 29.8 130°07	1°5/27.9	18		<b>150715</b>	2001 <i>QJ</i> <sub>5</sub>		8 29.8 356°38	0°5/29.5	17	
7 30	22 52.43	-11 45.2	2.518	3.413	9.4	20.6	7 30	22 57.30	-9 34.1	1.239	2.151	15.7	19.1
8 9	22 47.29	-12 36.1	2.462	3.422	6.5	20.4	8 9	22 51.72	-9 39.3	1.182	2.148	11.1	18.8
8 19	22 40.91	-13 31.3	2.432	3.430	3.4	20.2	8 19	22 43.64	-9 53.7	1.147	2.146	5.9	18.5
8 29	22 33.86	-14 26.2	2.431	3.438	1.5	20.1	8 29	22 34.10	-10 12.2	1.135	2.144	0.6	18.1
9 8	22 26.79	-15 16.2	2.459	3.446	4.0	20.3	9 8	22 24.47	-10 28.4	1.147	2.144	5.4	18.5
9 18	22 20.37	-15 57.5	2.515	3.453	7.0	20.5	9 18	22 16.14	-10 37.0	1.183	2.144	10.6	18.8
9 28	22 15.17	-16 27.5	2.596	3.461	9.7	20.7	9 28	22 10.27	-10 34.3	1.241	2.145	15.3	19.1
10 8	22 11.62	-16 45.1	2.701	3.468	12.0	20.9	10 8	22 7.49	-10 18.5	1.318	2.146	19.1	19.3
<b>264200</b>	2010 <i>MZ</i> <sub>52</sub>		8 29.8	4°15 3°1/	2.1 18		<b>155314</b>	2005 <i>YW</i> <sub>206</sub>		8 29.8 306°63	0°6/29.2	18	
7 30	22 50.68	+ 3 16.7	1.890	2.751	13.5	20.6	7 30	22 52.58	-8 52.7	2.154	3.049	10.8	20.3
8 9	22 46.43	+ 2 37.2	1.820	2.751	10.3	20.4	8 9	22 47.63	-9 27.5	2.085	3.044	7.5	20.1
8 19	22 40.60	+ 1 38.4	1.773	2.751	6.7	20.1	8 19	22 41.21	-10 9.7	2.041	3.038	3.9	19.8
8 29	22 33.84	+ 0 23.7	1.751	2.752	3.6	20.0	8 29	22 33.92	-10 55.0	2.024	3.033	0.6	19.6
9 8	22 26.97	- 1 0.6	1.757	2.752	4.0	20.0	9 8	22 26.53	-11 38.5	2.035	3.029	3.8	19.8
9 18	22 20.84	- 2 27.6	1.789	2.753	7.3	20.2	9 18	22 19.83	-12 15.7	2.073	3.024	7.5	20.0
9 28	22 16.22	- 3 49.8	1.848	2.755	10.8	20.4	9 28	22 14.51	-12 43.0	2.137	3.019	10.7	20.2
10 8	22 13.61	- 5 1.3	1.929	2.756	14.0	20.6	10 8	22 11.09	-12 58.5	2.223	3.015	13.5	20.4
<b>117784</b>	2005 <i>GG</i> <sub>119</sub>		8 29.8 26°37	1°2/28.7	18		<b>319190</b>	2005 <i>YG</i> <sub>145</sub>		8 29.8 188°71	2°4/ 1.3	18	
7 30	22 53.75	- 9 43.7	1.694	2.598	12.6	19.5	7 30	22 53.86	- 0 2.7	2.437	3.296	11.0	20.5
8 9	22 48.69	-10 30.3	1.638	2.601	8.8	19.2	8 9	22 48.38	- 0 4.0	2.364	3.295	8.2	20.3
8 19	22 41.82	-11 25.2	1.605	2.604	4.6	19.0	8 19	22 41.55	- 0 16.6	2.314	3.295	5.2	20.1
8 29	22 33.92	-12 22.5	1.598	2.607	1.2	18.8	8 29	22 33.95	- 0 38.8	2.292	3.294	2.7	20.0
9 8	22 25.99	-13 15.4	1.618	2.611	4.8	19.0	9 8	22 26.26	- 1 7.3	2.299	3.293	3.4	20.0
9 18	22 18.99	-13 58.2	1.664	2.615	9.0	19.3	9 18	22 19.18	- 1 38.7	2.334	3.292	6.2	20.2
9 28	22 13.77	-14 26.9	1.734	2.618	12.7	19.5	9 28	22 13.36	- 2 8.9	2.396	3.291	9.2	20.4
10 8	22 10.87	-14 40.0	1.824	2.623	15.8	19.8	10 8	22 9.25	- 2 34.7	2.481	3.290	11.8	20.6
<b>468160</b>	2014 <i>WF</i> <sub>281</sub>		8 29.8 351°01	4°6/ 2.2	17		<b>404396</b>	2013 <i>GH</i> <sub>52</sub>		8 29.8 142°06	2°2/27.1	18	
7 30	22 51.91	+ 3 17.6	1.065	1.958	19.3	20.7	7 30	22 52.08	-13 40.9	2.435	3.336	9.4	21.6
8 9	22 48.20	+ 2 58.0	1.006	1.953	14.8	20.4	8 9	22 47.13	-14 44.7	2.379	3.340	6.5	21.4
8 19	22 41.89	+ 2 8.2	0.965	1.949	9.8	20.1	8 19	22 40.88	-15 52.1	2.348	3.345	3.6	21.2
8 29	22 33.95	+ 0 51.8	0.944	1.946	5.3	19.9	8 29	22 33.90	-16 57.6	2.346	3.349	2.3	21.1
9 8	22 25.79	- 0 42.1	0.946	1.944	5.9	19.9	9 8	22 26.88	-17 56.1	2.372	3.354	4.6	21.3
9 18	22 18.87	- 2 21.2	0.971	1.943	10.6	20.2	9 18	22 20.51	-18 43.6	2.427	3.358	7.6	21.5
9 28	22 14.47	- 3 52.9	1.017	1.943	15.7	20.4	9 28	22 15.40	-19 17.4	2.507	3.362	10.3	21.7
10 8	22 13.28	- 5 7.6	1.081	1.943	20.0	20.7	10 8	22 11.99	-19 36.5	2.608	3.365	12.6	21.9
<b>108385</b>	2001 <i>KQ</i> <sub>24</sub>		8 29.8 43°31	1°4/28.6	18		<b>68288</b>	2001 <i>FH</i> <sub>26</sub>		8 29.8 197°21	2°3/ 1.3	18	
7 30	22 55.32	-10 53.6	1.710	2.613	12.6	19.2	7 30	22 53.76	+ 0 53.7	2.221	3.080	11.9	19.7
8 9	22 49.76	-11 28.6	1.655	2.618	8.8	19.0	8 9	22 48.44	+ 0 21.4	2.145	3.078	8.9	19.5
8 19	22 42.38	-12 10.3	1.624	2.622	4.6	18.7	8 19	22 41.64	- 0 25.6	2.093	3.075	5.6	19.3
8 29	22 33.98	-12 53.0	1.618	2.627	1.4	18.5	8 29	22 33.96	- 1 24.2	2.068	3.071	2.6	19.1
9 8	22 25.57	-13 30.6	1.640	2.632	4.9	18.8	9 8	22 26.16	- 2 29.7	2.072	3.067	3.5	19.2
9 18	22 18.14	-13 58.5	1.688	2.637	9.0	19.0	9 18	22 19.00	- 3 36.6	2.103	3.063	6.7	19.4
9 28	22 12.54	-14 13.4	1.759	2.642	12.6	19.3	9 28	22 13.20	- 4 39.3	2.162	3.058	10.0	19.5
10 8	22 9.29	-14 14.0	1.852	2.648	15.7	19.5	10 8	22 9.27	- 5 33.4	2.244	3.053	12.9	19.7
<b>185124</b>	2006 <i>SZ</i> <sub>70</sub>		8 29.8 282°14	2°4/31.8	18		<b>209276</b>	2003 <i>YO</i> <sub>12</sub>		8 29.8 284°71	3°0/27.5	18	
7 30	22 54.01	- 0 11.6	1.458	2.342	15.5	20.3	7 30	22 57.82	-16 5.2	1.809	2.714	11.9	20.2
8 9	22 49.25	- 0 49.0	1.385	2.332	11.6	20.1	8 9	22 51.58	-16 32.8	1.742	2.705	8.4	19.9
8 19	22 42.31	- 1 47.5	1.334	2.323	7.0	19.8	8 19	22 43.41	-17 1.9	1.700	2.696	4.7	19.7
8 29	22 33.99	- 3 2.8	1.307	2.314	2.8	19.5	8 29	22 34.09	-17 26.9	1.684	2.687	3.0	19.6
9 8	22 25.41	- 4 27.0	1.306	2.304	4.5	19.6	9 8	22 24.67	-17 42.4	1.695	2.679	5.9	19.8
9 18	22 17.75	- 5 51.2	1.330	2.295	9.2	19.8	9 18	22 16.18	-17 44.9	1.733	2.670	9.7	20.0
9 28	22 12.10	- 7 6.4	1.378	2.285	13.8	20.1	9 28	22 9.53	-17 32.8	1.794	2.661	13.2	20.2
10 8	22 9.13	- 8 6.5	1.446	2.276	17.6	20.3	10 8	22 5.32	-17 6.4	1.876	2.653	16.2	20.4
<b>480193</b>	2015 <i>FA</i> <sub>339</sub>		8 29.8 91°96	4°7/25.1	18		<b>22599</b>	Heatherhall		8			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>266318</b>	2007 CS <sub>56</sub>	8 29.8 164°88		0°9/30.7 18			<b>36098</b>	1999 RW <sub>112</sub>	8 29.8 313°15		4°9/ 3.3 18		
7 30	22 55.01	- 2 46.5	1.968	2.845	12.4	21.3	7 30	22 53.56	+ 5 54.5	2.005	2.846	13.7	18.3
8 9	22 49.41	- 3 42.5	1.903	2.849	9.0	21.1	8 9	22 48.49	+ 6 10.2	1.926	2.838	10.8	18.1
8 19	22 42.18	- 4 52.4	1.862	2.854	5.0	20.8	8 19	22 41.76	+ 6 8.2	1.868	2.830	7.8	17.9
8 29	22 34.01	- 6 11.3	1.849	2.858	1.2	20.6	8 29	22 34.01	+ 5 49.2	1.836	2.823	5.4	17.7
9 8	22 25.76	- 7 32.4	1.864	2.861	3.6	20.8	9 8	22 26.06	+ 5 15.9	1.830	2.815	5.3	17.7
9 18	22 18.30	- 8 49.0	1.907	2.863	7.6	21.0	9 18	22 18.79	+ 4 32.6	1.850	2.808	7.7	17.8
9 28	22 12.41	- 9 55.5	1.977	2.865	11.2	21.3	9 28	22 13.00	+ 3 45.3	1.896	2.801	10.7	18.0
10 8	22 8.61	-10 48.0	2.068	2.867	14.2	21.5	10 8	22 9.27	+ 2 59.7	1.965	2.794	13.7	18.2
<b>79650</b>	1998 SB <sub>16</sub>	8 29.8 195°70		0°2/29.9 18			<b>261618</b>	2005 YV <sub>13</sub>	8 29.8 151°89		2°4/ 1.3 18		
7 30	22 57.15	- 6 13.6	1.814	2.702	12.8	20.4	7 30	22 53.54	- 0 2.3	2.403	3.262	11.1	20.6
8 9	22 51.06	- 6 48.8	1.746	2.700	9.1	20.2	8 9	22 48.17	- 0 6.1	2.332	3.264	8.3	20.4
8 19	22 43.13	- 7 35.1	1.702	2.698	4.9	19.9	8 19	22 41.46	- 0 21.5	2.285	3.266	5.2	20.2
8 29	22 34.08	- 8 27.7	1.685	2.695	0.5	19.6	8 29	22 33.99	- 0 46.5	2.265	3.267	2.7	20.0
9 8	22 24.91	- 9 20.5	1.695	2.691	4.1	19.9	9 8	22 26.44	- 1 17.8	2.274	3.269	3.4	20.1
9 18	22 16.61	-10 7.9	1.733	2.687	8.4	20.1	9 18	22 19.52	- 1 51.8	2.311	3.270	6.3	20.3
9 28	22 10.07	-10 45.0	1.796	2.683	12.2	20.3	9 28	22 13.87	- 2 24.3	2.375	3.272	9.2	20.5
10 8	22 5.86	-11 9.0	1.880	2.678	15.4	20.6	10 8	22 9.93	- 2 51.9	2.462	3.273	11.8	20.6
<b>513715</b>	2012 SM <sub>20</sub>	8 29.8 278°35		1°7/31.2 18			<b>449450</b>	2013 JA <sub>32</sub>	8 29.8 131°62		1°1/31.3 18		
7 30	22 55.15	- 2 49.6	1.760	2.642	13.4	21.9	7 30	22 50.77	- 1 50.2	2.528	3.397	10.3	21.2
8 9	22 49.81	- 3 5.7	1.679	2.627	9.9	21.7	8 9	22 46.17	- 2 40.3	2.461	3.403	7.4	21.1
8 19	22 42.55	- 3 36.0	1.621	2.612	5.8	21.4	8 19	22 40.37	- 3 41.8	2.420	3.409	4.3	20.9
8 29	22 34.04	- 4 17.2	1.589	2.597	2.0	21.1	8 29	22 33.90	- 4 50.9	2.407	3.414	1.4	20.7
9 8	22 25.28	- 5 4.2	1.584	2.581	4.0	21.2	9 8	22 27.39	- 6 2.8	2.422	3.420	2.9	20.8
9 18	22 17.26	- 5 51.1	1.605	2.566	8.3	21.5	9 18	22 21.44	- 7 12.6	2.467	3.425	6.0	21.0
9 28	22 10.96	- 6 32.2	1.651	2.551	12.3	21.7	9 28	22 16.65	- 8 15.6	2.539	3.430	8.9	21.2
10 8	22 7.02	- 7 3.0	1.718	2.535	15.8	21.9	10 8	22 13.42	- 9 8.5	2.635	3.434	11.4	21.4
<b>288793</b>	2004 RB <sub>143</sub>	8 29.8 18°18		5°9/ 4.5 16			<b>35940</b>	1999 JE <sub>128</sub>	8 29.8 59°71		0°9/30.5 17		
7 30	22 52.64	+ 8 49.7	1.937	2.767	14.5	20.1	7 30	22 56.28	- 4 21.0	1.279	2.179	16.2	19.3
8 9	22 47.81	+ 9 5.1	1.869	2.770	11.7	19.9	8 9	22 50.89	- 4 57.8	1.227	2.185	11.6	19.1
8 19	22 41.36	+ 9 0.0	1.822	2.774	8.8	19.7	8 19	22 43.17	- 5 51.5	1.195	2.191	6.4	18.8
8 29	22 33.96	+ 8 34.9	1.799	2.777	6.4	19.6	8 29	22 34.12	- 6 55.7	1.188	2.198	1.2	18.5
9 8	22 26.45	+ 7 52.9	1.802	2.781	6.0	19.6	9 8	22 25.04	- 8 1.9	1.206	2.204	4.8	18.7
9 18	22 19.70	+ 6 59.0	1.831	2.786	7.9	19.7	9 18	22 17.21	- 9 1.5	1.248	2.211	10.0	19.0
9 28	22 14.48	+ 5 59.7	1.885	2.791	10.7	19.9	9 28	22 11.71	- 9 47.9	1.313	2.217	14.5	19.3
10 8	22 11.32	+ 5 1.7	1.961	2.796	13.5	20.1	10 8	22 9.12	-10 17.4	1.397	2.224	18.3	19.6
<b>430424</b>	1999 TV <sub>44</sub>	8 29.8 264°20		1°4/30.9 17			<b>58395</b>	1995 UW <sub>24</sub>	8 29.8 198°70		0°4/29.3 18		
7 30	22 56.87	- 3 36.0	1.578	2.465	14.4	22.1	7 30	22 53.02	- 8 14.9	2.331	3.220	10.3	20.7
8 9	22 51.24	- 3 57.6	1.499	2.450	10.5	21.8	8 9	22 47.86	- 8 55.3	2.263	3.218	7.2	20.5
8 19	22 43.40	- 4 34.6	1.441	2.434	6.1	21.5	8 19	22 41.32	- 9 43.1	2.220	3.217	3.8	20.3
8 29	22 34.12	- 5 23.0	1.409	2.418	1.7	21.2	8 29	22 33.98	-10 34.2	2.205	3.215	0.5	20.0
9 8	22 24.52	- 6 16.7	1.404	2.401	4.4	21.3	9 8	22 26.57	-11 23.7	2.219	3.212	3.6	20.3
9 18	22 15.76	- 7 8.7	1.424	2.385	9.2	21.6	9 18	22 19.79	-12 7.3	2.260	3.210	7.0	20.5
9 28	22 8.95	- 7 52.7	1.468	2.368	13.6	21.8	9 28	22 14.32	-12 41.4	2.328	3.207	10.1	20.7
10 8	22 4.80	- 8 24.1	1.533	2.351	17.4	22.0	10 8	22 10.62	-13 4.0	2.419	3.204	12.7	20.9
<b>321340</b>	2009 JK <sub>13</sub>	8 29.8 74°51		4°2/ 2.1 17			<b>88230</b>	2001 BT <sub>65</sub>	8 29.8 60°75		2°6/ 2.3 18 R		
7 30	22 56.36	+ 2 49.6	1.364	2.238	17.0	20.6	7 30	22 50.17	+ 2 39.3	2.880	3.725	9.8	18.2
8 9	22 50.83	+ 2 39.8	1.310	2.246	13.0	20.4	8 9	22 45.61	+ 2 29.9	2.817	3.738	7.5	18.1
8 19	22 43.10	+ 2 7.1	1.275	2.255	8.5	20.2	8 19	22 40.03	+ 2 9.3	2.778	3.750	5.0	17.9
8 29	22 34.09	+ 1 14.7	1.264	2.264	4.7	20.0	8 29	22 33.89	+ 1 39.1	2.767	3.763	2.9	17.8
9 8	22 25.06	+ 0 9.4	1.278	2.273	5.3	20.0	9 8	22 27.74	+ 1 2.3	2.784	3.775	3.1	17.8
9 18	22 17.20	- 1 0.5	1.317	2.282	9.2	20.3	9 18	22 22.11	+ 0 22.1	2.829	3.788	5.3	18.0
9 28	22 11.55	- 2 6.3	1.379	2.291	13.4	20.6	9 28	22 17.50	- 0 17.7	2.902	3.801	7.7	18.2
10 8	22 8.67	- 3 1.2	1.462	2.300	17.0	20.8	10 8	22 14.26	- 0 54.0	3.000	3.814	9.8	18.3
<b>907</b>	Rhoda	8 29.8 202°46		8°2/20.5 18			<b>25265</b>	1998 VR <sub>17</sub>	8 29.8 7°97		1°8/28.8 18		
7 30	23 0.55	-35 36.3	2.364	3.242	10.6	14.9	7 30	22 52.85	-11 15.7	0.928	1.862	17.5	17.1
8 9	22 53.27	-36 42.1	2.320	3.238	9.0	14.7	8 9	22 48.97	-11 33.8	0.887	1.863	12.2	16.8
8 19	22 44.21	-37 35.0	2.301	3.234	8.2	14.7	8 19	22 42.31	-12 1.5	0.864	1.866	6.4	16.5
8 29	22 34.17	-38 8.3	2.308	3.230	8.7	14.7	8 29	22 34.06	-12 31.1	0.861	1.870	1.8	16.3
9 8	22 24.16	-38 18.1	2.340	3.225	10.1	14.8	9 8	22 25.87	-12 53.8	0.880	1.877	6.6	16.6
9 18	22 15.14	-38 3.4	2.396	3.219	11.9	14.9	9 18	22 19.28	-13 3.3	0.921	1.885	12.2	16.9
9 28	22 7.95	-37 25.8	2.473	3.213	13.8	15.1	9 28	22 15.48	-12 55.8	0.980	1.895	17.2	17.3
10 8	22 3.08	-36 29.1	2.568	3.207	15.4	15.2	10 8	22 15.03	-12 30.6	1.056	1.907	21.2	17.6
<b>65995</b>	1998 KZ <sub>57</sub>	8 29.8 134°38		1°0/28.8 18			<b>237328</b>	2009 CA <sub>1</sub>	8 29.8 265°70		5°4/24.6 18		
7 30	22 56.49	- 9 52.4	1.921	2.816	11.8	19.4	7 30	22 55.94	-21 30.1	1.859	2.770	11.4	19.8
8 9	22 50.43	-10 32.7	1.866	2.825	8.2	19.2	8 9	22 50.33	-22 42.4	1.798	2.759	8.3	19.6
8 19	22 42.70	-11 19.8	1.835	2.833	4.3	19.0	8 19	22 42.80	-23 53.2	1.760	2.747	5.9	19.4
8 29	22 34.06	-12 8.5	1.832	2.841	1.0	18.7	8 29	22 34.11	-24 54.4	1.749	2.736	5.7	19.4
9 8	22 25.43	-12 53.1	1.856	2.848	4.4	19.0	9 8	22 25.27	-25 39.2	1.765	2.724	8.1	19.5
9 18	22 17.69	-13 29.0	1.908	2.856	8.2	19.3	9 18	22 17.31	-26 3.2	1.806	2.713	11.2	19.6
9 28	22 11.64	-13 52.9	1.985	2.862	11.6	19.5	9 28	22 11.15	-26 5.3	1.869	2.701	14.3	19.8
10 8	22 7.76	-14 3.3	2.083	2.869	14.5	19.7	10 8	22 7.38	-25 46.6	1.951	2.689	16.9	20.0
<b>487215</b>	2014 OF <sub>383</sub>	8 29.8 288°78		3°6/25.8 18			<b>159572</b>	2001 VO <sub>4</sub>	8 29.8 25°54		7°2/25.3 18		
7 30	22 53.07	-18 19.4	2.215	3.122	9.9	20.6	7 30	22 54.08	-19 5.5	0.832	1.7		

EPHEMERIDES

8 29.8

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>157797</b>	1995 <i>ON</i> <sub>12</sub>		8 29.8	50°91	3°0/	1.2 18	<b>6735</b>	Madhatter		8 29.8	271°13	2°5/28.1	18
7 30	22 55.50	+ 0 25.3	1.371	2.254	16.4	19.7	7 30	22 57.90	-11 42.8	1.282	2.196	15.2	17.1
8 9	22 50.05	+ 0 5.9	1.330	2.275	12.1	19.5	8 9	22 52.28	-12 36.8	1.219	2.187	10.7	16.8
8 19	22 42.59	- 0 33.1	1.311	2.297	7.5	19.3	8 19	22 44.09	-13 40.5	1.178	2.178	5.7	16.5
8 29	22 34.09	- 1 27.3	1.315	2.319	3.5	19.2	8 29	22 34.27	-14 45.4	1.161	2.169	2.5	16.3
9 8	22 25.73	- 2 29.3	1.344	2.342	4.6	19.3	9 8	22 24.22	-15 42.0	1.169	2.160	6.7	16.5
9 18	22 18.64	- 3 31.2	1.399	2.365	8.8	19.6	9 18	22 15.36	-16 22.6	1.201	2.150	11.8	16.8
9 28	22 13.68	- 4 25.8	1.477	2.388	12.8	19.9	9 28	22 8.93	-16 42.8	1.255	2.141	16.4	17.0
10 8	22 11.33	- 5 8.2	1.576	2.411	16.2	20.2	10 8	22 5.65	-16 41.8	1.326	2.132	20.2	17.3
<b>46303</b>	2001 <i>OZ</i> <sub>44</sub>		8 29.8	141°83	5°5/	4.2 18	<b>199312</b>	2006 <i>BN</i> <sub>101</sub>		8 29.8	7°40	0°5/29.4	18
7 30	22 55.55	+ 8 41.2	2.165	2.984	13.6	18.2	7 30	22 55.36	- 8 7.5	1.563	2.465	13.7	21.2
8 9	22 49.73	+ 8 58.6	2.094	2.989	10.9	18.1	8 9	22 50.02	- 8 44.2	1.504	2.465	9.6	21.0
8 19	22 42.36	+ 8 57.7	2.046	2.995	8.2	17.9	8 19	22 42.67	- 9 31.5	1.467	2.465	5.1	20.7
8 29	22 34.08	+ 8 38.7	2.023	3.000	6.0	17.8	8 29	22 34.16	-10 23.6	1.456	2.466	0.6	20.4
9 8	22 25.71	+ 8 4.3	2.027	3.005	5.7	17.8	9 8	22 25.57	-11 13.4	1.471	2.466	4.7	20.7
9 18	22 18.05	+ 7 19.0	2.059	3.009	7.5	17.9	9 18	22 17.98	-11 55.0	1.512	2.467	9.2	21.0
9 28	22 11.85	+ 6 28.1	2.116	3.014	10.1	18.1	9 28	22 12.34	-12 23.6	1.576	2.468	13.3	21.2
10 8	22 7.62	+ 5 37.7	2.197	3.018	12.7	18.3	10 8	22 9.23	-12 37.1	1.660	2.469	16.7	21.5
<b>95273</b>	2002 <i>CR</i> <sub>72</sub>		8 29.8	84°23	0°5/29.3	18	<b>318328</b>	2004 <i>TV</i> <sub>195</sub>		8 29.8	11°86	4°0/	2.9 18
7 30	22 53.49	- 8 20.8	2.150	3.042	10.9	20.1	7 30	22 51.33	+ 4 48.5	1.995	2.846	13.4	20.2
8 9	22 48.18	- 9 3.0	2.100	3.057	7.6	19.9	8 9	22 46.88	+ 4 35.1	1.926	2.847	10.4	20.1
8 19	22 41.47	- 9 52.4	2.075	3.072	3.9	19.7	8 19	22 40.90	+ 4 3.5	1.879	2.849	7.2	19.9
8 29	22 34.02	-10 44.3	2.077	3.087	0.5	19.4	8 29	22 34.03	+ 3 15.7	1.857	2.851	4.5	19.7
9 8	22 26.62	-11 33.6	2.108	3.102	3.7	19.7	9 8	22 27.07	+ 2 16.2	1.862	2.853	4.5	19.7
9 18	22 19.99	-12 15.9	2.166	3.116	7.2	20.0	9 18	22 20.82	+ 1 10.8	1.893	2.856	7.1	19.9
9 28	22 14.80	-12 47.9	2.250	3.131	10.3	20.2	9 28	22 16.01	+ 0 5.7	1.951	2.859	10.3	20.1
10 8	22 11.48	-13 7.7	2.356	3.145	12.9	20.4	10 8	22 13.15	- 0 53.3	2.031	2.862	13.2	20.3
<b>79691</b>	1998 <i>SM</i> <sub>60</sub>		8 29.8	20°59	2°9/28.0	18	<b>26571</b>	2000 <i>EN</i> <sub>84</sub>		8 29.8	205°17	3°4/25.8	18
7 30	22 54.34	-12 43.1	0.981	1.912	17.0	17.6	7 30	22 53.48	-15 55.9	2.143	3.049	10.3	17.2
8 9	22 49.86	-13 22.9	0.946	1.921	11.8	17.3	8 9	22 48.37	-17 22.3	2.083	3.046	7.2	17.0
8 19	22 42.70	-14 10.1	0.930	1.931	6.2	17.1	8 19	22 41.70	-18 52.0	2.048	3.043	4.3	16.9
8 29	22 34.11	-14 55.1	0.935	1.943	2.9	16.9	8 29	22 34.10	-20 17.9	2.042	3.039	3.6	16.8
9 8	22 25.70	-15 28.7	0.963	1.956	7.2	17.2	9 8	22 26.38	-21 33.0	2.063	3.035	6.1	17.0
9 18	22 18.93	-15 44.8	1.012	1.970	12.4	17.5	9 18	22 19.36	-22 32.2	2.112	3.031	9.2	17.1
9 28	22 14.89	-15 40.7	1.081	1.986	17.0	17.9	9 28	22 13.81	-23 12.7	2.186	3.027	12.1	17.3
10 8	22 14.08	-15 17.0	1.168	2.002	20.7	18.2	10 8	22 10.24	-23 33.9	2.279	3.022	14.6	17.5
<b>399451</b>	2002 <i>JU</i> <sub>108</sub>		8 29.8	89°73	2°1/26.9	16	<b>452052</b>	2014 <i>OA</i> <sub>253</sub>		8 29.8	156°01	0°7/29.2	18
7 30	22 52.84	-12 15.9	2.472	3.369	9.5	21.0	7 30	22 55.51	-10 32.8	2.368	3.258	10.1	21.2
8 9	22 47.57	-13 45.8	2.434	3.395	6.5	20.9	8 9	22 49.57	-10 46.4	2.303	3.259	7.1	21.0
8 19	22 41.10	-15 19.2	2.424	3.421	3.5	20.7	8 19	22 42.24	-11 4.5	2.264	3.261	3.7	20.8
8 29	22 34.00	-16 50.0	2.443	3.447	2.2	20.7	8 29	22 34.14	-11 23.8	2.253	3.262	0.7	20.6
9 8	22 26.96	-18 12.3	2.492	3.472	4.5	20.9	9 8	22 26.00	-11 40.6	2.270	3.263	3.6	20.8
9 18	22 20.62	-19 21.8	2.569	3.497	7.4	21.1	9 18	22 18.57	-11 52.0	2.316	3.264	6.9	21.0
9 28	22 15.55	-20 15.6	2.673	3.521	10.0	21.3	9 28	22 12.50	-11 55.7	2.388	3.266	9.9	21.2
10 8	22 12.14	-20 52.9	2.798	3.545	12.1	21.5	10 8	22 8.25	-11 50.4	2.483	3.266	12.5	21.4
<b>49342</b>	1998 <i>WE</i> <sub>3</sub>		8 29.8	281°56	0°1/29.7	18	<b>157042</b>	2003 <i>SK</i> <sub>44</sub>		8 29.8	297°70	5°0/	4.7 18
7 30	22 55.81	- 7 58.6	1.843	2.736	12.3	19.0	7 30	22 50.23	+ 9 16.4	2.081	2.908	13.7	19.1
8 9	22 50.12	- 8 19.0	1.777	2.733	8.7	18.7	8 9	22 46.05	+ 8 53.6	2.012	2.914	11.0	18.9
8 19	22 42.65	- 8 48.0	1.734	2.730	4.7	18.5	8 19	22 40.44	+ 8 9.7	1.965	2.919	8.1	18.8
8 29	22 34.13	- 9 21.4	1.717	2.727	0.3	18.1	8 29	22 34.00	+ 7 6.4	1.943	2.925	5.6	18.6
9 8	22 25.52	- 9 54.1	1.729	2.724	4.1	18.4	9 8	22 27.50	+ 5 48.4	1.947	2.931	5.1	18.6
9 18	22 17.75	-10 21.4	1.767	2.721	8.2	18.7	9 18	22 21.68	+ 4 21.9	1.978	2.938	7.1	18.7
9 28	22 11.69	-10 39.6	1.829	2.718	11.9	18.9	9 28	22 17.24	+ 2 54.1	2.036	2.945	9.9	18.9
10 8	22 7.87	-10 46.5	1.913	2.716	15.0	19.1	10 8	22 14.64	+ 1 31.6	2.117	2.952	12.6	19.1
<b>197871</b>	2004 <i>RD</i> <sub>8</sub>		8 29.8	21°35	1°3/28.9	17	<b>454075</b>	2012 <i>UJ</i> <sub>153</sub>		8 29.8	185°33	3°0/	1.4 16
7 30	22 56.12	-10 18.0	1.345	2.256	14.7	20.2	7 30	23 0.45	+ 1 51.9	1.801	2.655	14.4	22.6
8 9	22 50.71	-10 47.3	1.294	2.260	10.3	20.0	8 9	22 53.47	+ 1 22.3	1.727	2.656	10.9	22.4
8 19	22 43.07	-11 25.3	1.265	2.264	5.4	19.7	8 19	22 44.50	+ 0 34.1	1.676	2.656	6.9	22.2
8 29	22 34.16	-12 5.5	1.260	2.269	1.3	19.5	8 29	22 34.32	- 0 29.5	1.653	2.655	3.4	21.9
9 8	22 25.27	-12 40.7	1.280	2.275	5.4	19.8	9 8	22 23.97	- 1 42.5	1.657	2.652	4.3	22.0
9 18	22 17.60	-13 5.2	1.325	2.281	10.3	20.1	9 18	22 14.50	- 2 57.6	1.690	2.648	8.2	22.2
9 28	22 12.19	-13 15.3	1.392	2.287	14.5	20.3	9 28	22 6.89	- 4 7.8	1.749	2.643	12.1	22.5
10 8	22 9.58	-13 9.7	1.478	2.294	18.0	20.6	10 8	22 1.73	- 5 7.3	1.830	2.636	15.4	22.7
<b>147617</b>	2004 <i>HF</i> <sub>10</sub>		8 29.8	169°72	1°7/28.2	18	<b>392703</b>	2011 <i>YD</i> <sub>71</sub>		8 29.8	278°68	2°0/25.9	17
7 30	22 56.70	-10 49.9	1.831	2.729	12.1	20.7	7 30	22 47.38	-18 43.0	4.308	5.207	5.7	21.2
8 9	22 50.73	-11 49.3	1.772	2.732	8.4	20.5	8 9	22 43.50	-19 18.3	4.241	5.200	4.0	21.1
8 19	22 42.96	-12 55.9	1.737	2.735	4.4	20.3	8 19	22 38.90	-19 53.2	4.201	5.193	2.5	21.0
8 29	22 34.16	-14 3.3	1.730	2.738	1.8	20.1	8 29	22 33.89	-20 25.3	4.191	5.186	2.1	20.9
9 8	22 25.29	-15 4.5	1.750	2.739	5.0	20.3	9 8	22 28.84	-20 52.3	4.210	5.179	3.4	21.0
9 18	22 17.33	-15 53.9	1.798	2.741	9.0	20.6	9 18	22 24.11	-21 12.4	4.257	5.172	5.1	21.1
9 28	22 11.13	-16 27.9	1.870	2.741	12.5	20.8	9 28	22 20.05	-21 24.3	4.331	5.165	6.7	21.3
10 8	22 7.22	-16 45.1	1.963	2.742	15.5	21.0	10 8	22 16.94	-21 27.6	4.428	5.158	8.2	21.4
<b>251463</b>	2008 <i>CW</i> <sub>195</sub>		8 29.8	24°64	0°3/29.5	18	<b>217564</b>	2007 <i>PC</i> <sub>27</sub>		8 29			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>494378</b>	2016 <i>UV</i> <sub>34</sub>		8 29.8 243°73	2°6/ 1.5	18		<b>326764</b>	2003 <i>SQ</i> <sub>141</sub>		8 29.8 301°96	2°9/ 1.9	18	
7 30	22 53.24	+ 0 53.9	2.005	2.869	12.7	21.5	7 30	22 51.69	+ 1 57.7	2.259	3.116	11.8	20.6
8 9	22 48.24	+ 0 32.3	1.931	2.866	9.6	21.2	8 9	22 47.07	+ 1 46.6	2.177	3.106	9.0	20.4
8 19	22 41.65	- 0 4.8	1.881	2.863	6.1	21.0	8 19	22 41.02	+ 1 21.1	2.119	3.096	5.9	20.2
8 29	22 34.10	- 0 54.7	1.857	2.860	3.0	20.8	8 29	22 34.10	+ 0 43.3	2.086	3.085	3.3	20.0
9 8	22 26.43	- 1 52.6	1.861	2.857	3.8	20.9	9 8	22 27.02	- 0 3.3	2.081	3.075	3.7	20.0
9 18	22 19.46	- 2 52.7	1.892	2.854	7.2	21.1	9 18	22 20.51	- 0 54.1	2.104	3.066	6.6	20.1
9 28	22 13.98	- 3 49.3	1.948	2.850	10.6	21.3	9 28	22 15.28	- 1 43.9	2.153	3.056	9.7	20.3
10 8	22 10.50	- 4 37.6	2.028	2.847	13.7	21.5	10 8	22 11.82	- 2 28.3	2.225	3.046	12.6	20.5
<b>491415</b>	2012 <i>DQ</i> <sub>63</sub>		8 29.8 45°05	1°3/30.6	17		<b>253460</b>	2003 <i>SU</i> <sub>8</sub>		8 29.8 210°83	3°5/ 1.9	18	
7 30	22 58.40	- 5 8.0	1.097	2.004	17.7	20.7	7 30	22 55.38	+ 2 53.1	1.565	2.432	15.6	20.7
8 9	22 52.46	- 5 15.9	1.060	2.021	12.7	20.5	8 9	22 50.13	+ 2 19.7	1.494	2.429	11.9	20.4
8 19	22 44.02	- 5 39.7	1.042	2.038	7.0	20.3	8 19	22 42.82	+ 1 23.8	1.445	2.426	7.7	20.2
8 29	22 34.28	- 6 13.8	1.047	2.056	1.6	20.0	8 29	22 34.24	+ 0 9.0	1.420	2.422	4.0	19.9
9 8	22 24.75	- 6 50.5	1.076	2.075	5.1	20.3	9 8	22 25.47	- 1 17.6	1.422	2.418	4.6	20.0
9 18	22 16.83	- 7 22.7	1.129	2.094	10.4	20.6	9 18	22 17.61	- 2 47.4	1.450	2.414	8.7	20.2
9 28	22 11.56	- 7 44.6	1.202	2.114	15.0	21.0	9 28	22 11.67	- 4 11.4	1.502	2.410	12.8	20.4
10 8	22 9.44	- 7 53.2	1.295	2.134	18.8	21.3	10 8	22 8.28	- 5 22.8	1.576	2.405	16.5	20.7
<b>390029</b>	2012 <i>UZ</i> <sub>40</sub>		8 29.8 199°62	5°9/24.6	18		<b>514770</b>	2007 <i>EO</i> <sub>183</sub>		8 29.8 172°42	1°5/28.2	18	
7 30	22 59.12	-24 23.5	1.921	2.824	11.4	21.0	7 30	22 54.27	-12 39.9	2.473	3.368	9.5	22.3
8 9	22 52.45	-25 18.7	1.868	2.823	8.5	20.8	8 9	22 48.70	-13 13.7	2.411	3.369	6.6	22.1
8 19	22 43.90	-26 8.4	1.841	2.821	6.3	20.7	8 19	22 41.80	-13 51.0	2.374	3.371	3.5	22.0
8 29	22 34.28	-26 45.2	1.839	2.819	6.2	20.7	8 29	22 34.16	-14 27.6	2.365	3.372	1.5	21.8
9 8	22 24.66	-27 4.0	1.865	2.817	8.2	20.8	9 8	22 26.49	-14 59.5	2.385	3.373	4.0	22.0
9 18	22 16.06	-27 2.1	1.915	2.814	11.1	20.9	9 18	22 19.47	-15 23.4	2.433	3.373	7.1	22.2
9 28	22 9.36	-26 39.8	1.989	2.812	13.9	21.1	9 28	22 13.74	-15 36.9	2.508	3.374	9.9	22.4
10 8	22 5.09	-25 59.5	2.081	2.809	16.3	21.3	10 8	22 9.73	-15 39.2	2.604	3.374	12.3	22.6
<b>425573</b>	2010 <i>TX</i> <sub>5</sub>		8 29.8 321°68	4°7/27.1	18		<b>388184</b>	2006 <i>BY</i> <sub>271</sub>		8 29.8 196°99	6°2/ 4.7	15	
7 30	22 59.57	-17 35.1	1.196	2.117	15.4	20.8	7 30	22 55.21	+12 15.1	1.214	2.055	20.7	20.4
8 9	22 53.60	-18 11.1	1.138	2.107	11.0	20.5	8 9	22 50.49	+10 54.3	1.142	2.054	16.7	20.1
8 19	22 44.84	-18 48.2	1.101	2.098	6.5	20.2	8 19	22 43.20	+ 8 49.0	1.089	2.052	12.0	19.9
8 29	22 34.37	-19 17.2	1.087	2.089	4.8	20.1	8 29	22 34.28	+ 6 3.0	1.059	2.050	7.5	19.6
9 8	22 23.74	-19 30.1	1.097	2.081	8.3	20.3	9 8	22 25.09	+ 2 48.9	1.054	2.047	6.6	19.6
9 18	22 14.52	-19 22.4	1.130	2.073	13.0	20.5	9 18	22 17.06	- 0 34.6	1.075	2.044	10.3	19.8
9 28	22 8.01	-18 53.2	1.184	2.066	17.5	20.8	9 28	22 11.43	- 3 47.7	1.122	2.040	15.2	20.0
10 8	22 4.89	-18 4.6	1.254	2.059	21.2	21.0	10 8	22 8.96	- 6 35.2	1.190	2.036	19.6	20.3
<b>255519</b>	2006 <i>CN</i> <sub>61</sub>		8 29.8 175°22	3°3/25.7	18		<b>454983</b>	2015 <i>TG</i> <sub>221</sub>		8 29.8 329°69	0°0/29.8	18	
7 30	22 53.57	-19 14.4	2.651	3.552	8.7	20.4	7 30	22 52.08	- 6 34.7	1.932	2.826	11.8	21.2
8 9	22 48.16	-20 5.9	2.594	3.554	6.2	20.2	8 9	22 47.50	- 7 12.3	1.862	2.819	8.4	21.0
8 19	22 41.48	-20 56.5	2.564	3.555	4.0	20.1	8 19	22 41.30	- 8 0.5	1.816	2.813	4.5	20.7
8 29	22 34.11	-21 41.6	2.562	3.556	3.5	20.0	8 29	22 34.13	- 8 54.5	1.797	2.807	0.4	20.4
9 8	22 26.70	-22 16.9	2.589	3.556	5.3	20.2	9 8	22 26.84	- 9 48.8	1.805	2.801	3.8	20.7
9 18	22 19.92	-22 39.8	2.643	3.556	7.8	20.3	9 18	22 20.27	-10 37.7	1.839	2.796	7.8	20.9
9 28	22 14.37	-22 48.8	2.723	3.557	10.2	20.5	9 28	22 15.21	-11 16.7	1.899	2.791	11.4	21.1
10 8	22 10.49	-22 43.9	2.823	3.556	12.3	20.6	10 8	22 12.20	-11 42.9	1.980	2.786	14.5	21.3
<b>264967</b>	2003 <i>AK</i> <sub>17</sub>		8 29.8 308°11	16°3/ 3.0	16		<b>40140</b>	1998 <i>QQ</i> <sub>68</sub>		8 29.8 328°02	4°4/ 3.8	18	
7 30	23 7.14	+13 18.1	0.994	1.831	24.6	19.7	7 30	22 48.71	+ 7 23.9	1.835	2.682	14.5	18.2
8 9	23 0.00	+16 21.5	0.927	1.817	21.5	19.5	8 9	22 45.28	+ 6 39.1	1.748	2.666	11.5	17.9
8 19	22 48.88	+19 0.8	0.877	1.804	18.6	19.2	8 19	22 40.20	+ 5 29.3	1.683	2.650	8.1	17.7
8 29	22 34.74	+21 2.0	0.845	1.791	16.6	19.1	8 29	22 34.06	+ 3 57.0	1.642	2.635	5.1	17.5
9 8	22 19.45	+22 15.1	0.834	1.778	16.6	19.0	9 8	22 27.69	+ 2 8.2	1.628	2.621	4.8	17.5
9 18	22 5.33	+22 38.7	0.842	1.766	18.6	19.1	9 18	22 21.97	+ 0 11.4	1.641	2.607	7.7	17.6
9 28	21 54.57	+22 21.6	0.868	1.755	21.7	19.3	9 28	22 17.72	- 1 43.9	1.680	2.594	11.3	17.8
10 8	21 48.48	+21 39.5	0.908	1.744	25.1	19.5	10 8	22 15.56	- 3 29.1	1.742	2.582	14.7	18.0
<b>55092</b>	2001 <i>QO</i> <sub>123</sub>		8 29.8 102°73	2°7/27.9	18		<b>469940</b>	2006 <i>BF</i> <sub>61</sub>		8 29.8 174°11	7°4/22.5	17	
7 30	22 59.84	-12 19.4	1.267	2.179	15.4	19.2	7 30	22 59.32	-28 37.8	1.935	2.835	11.5	21.1
8 9	22 53.43	-13 13.7	1.222	2.189	10.7	18.9	8 9	22 52.65	-29 55.8	1.892	2.837	9.1	21.0
8 19	22 44.56	-14 15.1	1.199	2.198	5.7	18.7	8 19	22 44.04	-31 4.7	1.873	2.839	7.6	20.9
8 29	22 34.35	-15 14.8	1.200	2.207	2.7	18.5	8 29	22 34.35	-31 56.3	1.881	2.840	7.9	20.9
9 8	22 24.21	-16 3.8	1.227	2.216	6.6	18.8	9 8	22 24.67	-32 25.0	1.914	2.840	9.7	21.0
9 18	22 15.51	-16 36.0	1.277	2.225	11.4	19.1	9 18	22 16.07	-32 28.7	1.971	2.841	12.2	21.2
9 28	22 9.34	-16 48.5	1.350	2.233	15.7	19.4	9 28	22 9.44	-32 8.3	2.050	2.841	14.7	21.3
10 8	22 6.23	-16 41.4	1.441	2.241	19.1	19.6	10 8	22 5.29	-31 27.2	2.147	2.840	16.7	21.5
<b>403042</b>	2008 <i>AC</i> <sub>14</sub>		8 29.8 148°74	2°5/ 1.3	18		<b>207924</b>	2008 <i>WA</i> <sub>43</sub>		8 29.8 33°74	1°0/29.2	17	
7 30	22 54.17	+ 0 12.3	2.144	3.006	12.1	21.2	7 30	22 57.77	- 9 7.0	1.006	1.926	17.7	19.9
8 9	22 48.78	- 0 0.3	2.075	3.009	9.0	21.0	8 9	22 52.35	- 9 37.1	0.964	1.934	12.4	19.6
8 19	22 41.90	- 0 26.5	2.030	3.012	5.7	20.8	8 19	22 44.13	-10 19.8	0.941	1.941	6.5	19.3
8 29	22 34.16	- 1 3.5	2.012	3.015	2.8	20.6	8 29	22 34.36	-11 6.9	0.940	1.950	1.0	19.0
9 8	22 26.34	- 1 47.5	2.022	3.017	3.6	20.7	9 8	22 24.68	-11 49.0	0.963	1.959	6.2	19.4
9 18	22 19.23	- 2 33.6	2.059	3.020	6.8	20.9	9 18	22 16.64	-12 18.5	1.007	1.969	11.8	19.7
9 28	22 13.53	- 3 16.9	2.123	3.022	10.0	21.1	9 28	22 11.45	-12 30.9	1.072	1.979	16.8	20.0
10 8	22 9.75	- 3 53.5	2.210	3.024	12.9	21.3	10 8	22 9.66	-12 24.9	1.154	1.990	20.8	20.3
<b>319380</b>	2006 <i>DR</i> <sub>146</sub>		8 29.8 319°15	2°9/ 2.5	18		<b>228886</b>	2003					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	
<b>316187</b>	2010 <i>KD</i> <sub>47</sub>		8 29.8	2°30	5°8/ 3.5	18	<b>16464</b>	1990 <i>EV</i> <sub>1</sub>		8 29.8	177°65	2°8/ 1.6	18	
7 30	22 54.49	+ 6 6.8	1.690	2.539	15.4	20.2	7 30	22 55.76	+ 2 2.0	1.795	2.657	14.1	18.5	
8 9	22 49.38	+ 6 37.8	1.622	2.538	12.3	20.0	8 9	22 50.18	+ 1 21.6	1.726	2.659	10.6	18.3	
8 19	22 42.39	+ 6 48.8	1.575	2.538	9.0	19.8	8 19	22 42.80	+ 0 21.9	1.679	2.660	6.7	18.1	
8 29	22 34.25	+ 6 39.8	1.552	2.538	6.3	19.7	8 29	22 34.33	- 0 53.1	1.658	2.661	3.2	17.8	
9 8	22 25.97	+ 6 13.8	1.554	2.539	6.2	19.7	9 8	22 25.73	- 2 17.0	1.665	2.661	4.1	17.9	
9 18	22 18.54	+ 5 35.6	1.582	2.541	8.6	19.8	9 18	22 17.97	- 3 42.0	1.699	2.661	7.9	18.1	
9 28	22 12.88	+ 4 51.9	1.634	2.543	11.9	20.0	9 28	22 11.91	- 5 0.9	1.759	2.660	11.6	18.4	
10 8	22 9.59	+ 4 9.2	1.707	2.546	15.0	20.2	10 8	22 8.14	- 6 7.7	1.841	2.658	14.9	18.6	
<b>186839</b>	2004 <i>FY</i> <sub>127</sub>		8 29.8	16°86	4°0/ 1.8	18	<b>365765</b>	2010 <i>XE</i> <sub>12</sub>		8 29.8	341°60	4°8/ 24.4	18	
7 30	22 52.58	+ 1 47.9	1.171	2.063	18.0	19.1	7 30	22 52.38	- 21 6.0	2.106	3.017	10.2	20.1	
8 9	22 48.48	+ 1 34.2	1.119	2.067	13.6	18.8	8 9	22 47.67	- 22 21.3	2.052	3.014	7.4	19.9	
8 19	22 42.04	+ 0 55.5	1.086	2.072	8.8	18.6	8 19	22 41.39	- 23 35.1	2.024	3.011	5.2	19.8	
8 29	22 34.23	- 0 4.2	1.075	2.078	4.5	18.3	8 29	22 34.21	- 24 40.4	2.022	3.008	5.1	19.7	
9 8	22 26.35	- 1 16.7	1.087	2.085	5.3	18.4	9 8	22 26.96	- 25 31.2	2.048	3.006	7.2	19.9	
9 18	22 19.70	- 2 32.3	1.123	2.093	9.8	18.7	9 18	22 20.46	- 26 3.9	2.098	3.003	10.0	20.0	
9 28	22 15.37	- 3 41.2	1.181	2.102	14.3	19.0	9 28	22 15.46	- 26 16.8	2.172	3.001	12.7	20.2	
10 8	22 13.95	- 4 36.2	1.257	2.112	18.3	19.3	10 8	22 12.47	- 26 10.7	2.265	2.999	14.9	20.4	
<b>468530</b>	2005 <i>YR</i> <sub>245</sub>		8 29.8	127°11	14°2/ 13.4	18	<b>787</b>	Moskva		8 29.8	22°05	4°9/ 3.7	18	A
7 30	23 3.70	+ 31 8.9	2.064	2.709	19.1	20.6	7 30	22 50.23	+ 7 39.3	1.361	2.222	17.8	13.0	
8 9	22 56.06	+ 33 0.7	1.999	2.717	17.7	20.5	8 9	22 46.63	+ 6 44.1	1.301	2.227	13.9	12.8	
8 19	22 46.09	+ 34 22.9	1.950	2.726	16.2	20.4	8 19	22 41.01	+ 5 17.8	1.261	2.233	9.6	12.6	
8 29	22 34.56	+ 35 9.5	1.920	2.734	15.0	20.3	8 29	22 34.19	+ 3 24.8	1.244	2.240	5.7	12.4	
9 8	22 22.60	+ 35 18.3	1.911	2.742	14.3	20.3	9 8	22 27.29	+ 1 15.0	1.252	2.247	5.4	12.4	
9 18	22 11.46	+ 34 50.9	1.923	2.749	14.3	20.3	9 18	22 21.40	- 0 59.3	1.285	2.255	8.9	12.6	
9 28	22 2.28	+ 33 53.9	1.955	2.756	14.9	20.4	9 28	22 17.50	- 3 5.6	1.343	2.263	13.1	12.9	
10 8	21 55.84	+ 32 36.8	2.007	2.763	15.9	20.5	10 8	22 16.16	- 4 54.4	1.422	2.272	16.8	13.1	
<b>239106</b>	2006 <i>HA</i> <sub>58</sub>		8 29.8	39°11	6°0/ 24.5	18	<b>316099</b>	2009 <i>OU</i> <sub>3</sub>		8 29.8	24°69	3°9/ 1.3	18	
7 30	22 55.08	- 21 6.3	1.537	2.455	12.8	19.5	7 30	22 59.12	- 0 58.5	1.574	2.449	15.1	19.1	
8 9	22 49.88	- 22 31.1	1.498	2.463	9.3	19.4	8 9	22 52.57	- 0 7.9	1.522	2.461	11.3	18.9	
8 19	22 42.64	- 23 52.8	1.482	2.471	6.5	19.2	8 19	22 44.03	+ 0 28.7	1.492	2.474	7.3	18.7	
8 29	22 34.28	- 25 2.0	1.492	2.479	6.3	19.2	8 29	22 34.42	+ 0 51.9	1.488	2.488	4.2	18.5	
9 8	22 25.97	- 25 51.1	1.526	2.488	8.9	19.4	9 8	22 24.87	+ 1 3.8	1.509	2.503	5.0	18.6	
9 18	22 18.83	- 26 15.9	1.585	2.497	12.2	19.6	9 18	22 16.45	+ 1 8.1	1.557	2.518	8.5	18.9	
9 28	22 13.77	- 26 16.1	1.664	2.506	15.3	19.8	9 28	22 10.07	+ 1 8.9	1.629	2.535	12.1	19.1	
10 8	22 11.29	- 25 53.8	1.762	2.515	17.9	20.1	10 8	22 6.25	+ 1 10.8	1.723	2.552	15.3	19.4	
<b>44978</b>	1999 <i>VN</i> <sub>157</sub>		8 29.8	271°49	5°9/ 3.7	18	<b>293350</b>	2007 <i>DX</i> <sub>106</sub>		8 29.8	114°54	1°7/ 31.9	18	
7 30	22 55.11	+ 7 23.2	1.558	2.406	16.6	19.2	7 30	22 52.48	- 1 3.7	2.464	3.328	10.7	21.0	
8 9	22 50.12	+ 7 22.4	1.475	2.391	13.3	18.9	8 9	22 47.44	- 1 31.2	2.401	3.338	7.8	20.9	
8 19	22 42.95	+ 6 56.3	1.412	2.376	9.7	18.7	8 19	22 41.16	- 2 10.0	2.363	3.348	4.7	20.7	
8 29	22 34.33	+ 6 5.3	1.372	2.360	6.6	18.4	8 29	22 34.20	- 2 57.1	2.353	3.358	1.9	20.5	
9 8	22 25.33	+ 4 53.9	1.357	2.345	6.3	18.4	9 8	22 27.22	- 3 48.4	2.371	3.368	3.0	20.6	
9 18	22 17.13	+ 3 29.4	1.367	2.329	9.3	18.5	9 18	22 20.86	- 4 39.5	2.418	3.377	6.0	20.8	
9 28	22 10.82	+ 2 1.5	1.402	2.314	13.2	18.7	9 28	22 15.72	- 5 26.3	2.491	3.386	8.9	21.0	
10 8	22 7.16	+ 0 39.4	1.457	2.298	17.0	18.9	10 8	22 12.21	- 6 5.4	2.589	3.395	11.4	21.2	
<b>404850</b>	2014 <i>KS</i> <sub>15</sub>		8 29.8	22°02	0°4/ 29.4	18	<b>11538</b>	Brunico		8 29.8	14°27	4°2/ 1.3	18	
7 30	22 53.04	- 7 53.3	1.835	2.732	12.2	20.3	7 30	22 57.59	- 0 45.7	1.097	1.993	18.5	16.8	
8 9	22 48.18	- 8 33.9	1.776	2.735	8.5	20.1	8 9	22 52.19	- 0 13.2	1.045	1.996	14.0	16.5	
8 19	22 41.67	- 9 23.8	1.741	2.738	4.5	19.9	8 19	22 44.11	- 0 0.8	1.012	1.999	8.9	16.2	
8 29	22 34.22	- 10 17.9	1.732	2.742	0.5	19.6	8 29	22 34.45	- 0 7.0	1.000	2.004	4.7	16.0	
9 8	22 26.71	- 11 10.1	1.750	2.745	4.1	19.9	9 8	22 24.71	- 0 26.8	1.012	2.009	5.8	16.1	
9 18	22 20.04	- 11 55.1	1.795	2.749	8.1	20.1	9 18	22 16.39	- 0 53.4	1.047	2.015	10.6	16.4	
9 28	22 14.99	- 12 28.5	1.864	2.753	11.7	20.4	9 28	22 10.72	- 1 19.3	1.102	2.022	15.3	16.7	
10 8	22 12.07	- 12 48.2	1.955	2.758	14.7	20.6	10 8	22 8.34	- 1 38.1	1.176	2.030	19.3	17.0	
<b>155520</b>	1999 <i>TH</i> <sub>10</sub>		8 29.8	288°04	1°7/ 31.8	18	<b>20650</b>	1999 <i>TG</i> <sub>173</sub>		8 29.9	122°53	0°1/ 30.0	18	
7 30	22 51.67	- 0 54.4	2.174	3.044	11.7	19.5	7 30	22 55.19	- 5 44.5	2.028	2.912	11.8	18.4	
8 9	22 47.18	- 1 29.7	2.085	3.025	8.6	19.3	8 9	22 49.52	- 6 31.0	1.973	2.925	8.3	18.2	
8 19	22 41.17	- 2 19.5	2.019	3.006	5.2	19.0	8 19	22 42.33	- 7 27.5	1.942	2.937	4.5	18.0	
8 29	22 34.19	- 3 20.5	1.981	2.987	2.1	18.8	8 29	22 34.31	- 8 29.2	1.939	2.949	0.4	17.7	
9 8	22 26.97	- 4 27.9	1.970	2.967	3.4	18.9	9 8	22 26.29	- 9 30.3	1.965	2.961	3.6	18.0	
9 18	22 20.31	- 5 36.0	1.987	2.948	7.0	19.1	9 18	22 19.09	- 10 25.4	2.018	2.972	7.4	18.2	
9 28	22 14.94	- 6 39.1	2.030	2.928	10.5	19.2	9 28	22 13.43	- 11 10.3	2.097	2.983	10.8	18.5	
10 8	22 11.44	- 7 32.4	2.097	2.909	13.5	19.4	10 8	22 9.78	- 11 42.3	2.199	2.993	13.6	18.7	
<b>272800</b>	2006 <i>AL</i> <sub>13</sub>		8 29.8	5°28	0°2/ 29.7	18	<b>17970</b>	Palepu		8 29.9	64°68	3°2/ 27.8	18	
7 30	22 50.69	- 7 51.0	0.961	1.890	17.5	18.8	7 30	23 1.00	- 14 24.2	1.204	2.119	15.8	17.3	
8 9	22 47.48	- 8 11.9	0.916	1.889	12.4	18.5	8 9	22 54.22	- 15 3.9	1.168	2.136	11.0	17.1	
8 19	22 41.62	- 8 47.9	0.889	1.890	6.6	18.2	8 19	22 44.99	- 15 47.0	1.155	2.153	6.0	16.8	
8 29	22 34.23	- 9 31.7	0.884	1.893	0.5	17.8	8 29	22 34.51	- 16 25.2	1.165	2.171	3.3	16.7	
9 8	22 26.81	- 10 14.0	0.900	1.899	5.7	18.2	9 8	22 24.30	- 16 50.8	1.200	2.188	6.9	17.0	
9 18	22 20.82	- 10 46.7	0.937	1.906	11.5	18.6	9 18	22 15.72	- 16 59.5	1.258	2.205	11.6	17.3	
9 28	22 17.45	- 11 3.5	0.994	1.914	16.5	18.9	9 28	22 9.80	- 16 50.0	1.339	2.223	15.7	17.6	
10 8	22 17.27	- 11 2.0	1.068	1.925	20.6	19.2	10 8	22 6.99	- 16 23.6	1.437	2.240	19.1	17.9	
<b>367299</b>	2007 <i>VH</i> <sub>192</sub>		8 29.8	320°96	6°2/ 25.3	18	<b>342720</b>	2						

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>107989</b>	2001 <i>FF</i> <sub>135</sub>	8 29.9 46°05' 13.3"/15.8 18											
7 30	22 52.72	+29 9.3	1.196	1.938	26.3	18.8	7 30	23 2.51	-26 7.9	1.651	2.555	12.9	19.3
8 9	22 48.49	+28 42.7	1.158	1.971	23.2	18.7	8 9	22 55.18	-26 21.3	1.588	2.542	9.8	19.1
8 19	22 41.96	+27 23.8	1.132	2.004	19.7	18.6	8 19	22 45.55	-26 25.2	1.549	2.530	7.2	18.9
8 29	22 34.27	+25 12.0	1.123	2.037	16.3	18.5	8 29	22 34.61	-26 12.8	1.534	2.518	6.7	18.8
9 8	22 26.85	+22 15.5	1.135	2.071	13.9	18.5	9 8	22 23.65	-25 39.7	1.546	2.507	8.8	18.9
9 18	22 20.92	+18 49.6	1.169	2.106	13.3	18.5	9 18	22 13.95	-24 45.4	1.583	2.497	12.1	19.1
9 28	22 17.43	+15 14.4	1.227	2.140	14.6	18.7	9 28	22 6.55	-23 31.9	1.642	2.487	15.3	19.3
10 8	22 16.81	+11 48.9	1.308	2.175	17.0	19.0	10 8	22 2.03	-22 3.4	1.721	2.478	18.2	19.5
<b>408703</b>	2014 <i>NF</i> <sub>31</sub>	8 29.9 344°32' 1.7"/28.0 18											
7 30	22 51.70	-11 15.0	2.096	2.998	10.7	20.4	<b>388574</b>	2007 <i>RB</i> <sub>43</sub>	8 29.9 6°08' 3.4"/1.7 18				
8 9	22 47.16	-12 12.4	2.034	2.996	7.4	20.2	7 30	22 53.19	+ 1 22.9	1.523	2.400	15.4	21.0
8 19	22 41.12	-13 16.1	1.995	2.994	3.9	19.9	8 9	22 48.61	+ 1 10.5	1.460	2.400	11.6	20.7
8 29	22 34.23	-14 20.7	1.985	2.992	1.7	19.8	8 19	22 42.06	+ 0 38.4	1.418	2.401	7.5	20.5
9 8	22 27.24	-15 20.0	2.002	2.990	4.6	20.0	8 29	22 34.33	- 0 10.4	1.400	2.402	3.9	20.3
9 18	22 20.96	-16 9.2	2.046	2.989	8.1	20.2	9 8	22 26.49	- 1 9.9	1.407	2.404	4.6	20.3
9 28	22 16.08	-16 44.8	2.115	2.987	11.2	20.4	9 18	22 19.59	- 2 12.8	1.440	2.406	8.5	20.6
10 8	22 13.10	-17 5.1	2.205	2.986	13.9	20.6	9 28	22 14.58	- 3 11.8	1.496	2.409	12.5	20.8
							10 8	22 12.03	- 4 0.6	1.574	2.412	16.0	21.1
<b>344796</b>	2003 <i>YS</i> <sub>148</sub>	8 29.9 224°21' 2.4"/27.3 18											
7 30	22 57.02	-15 40.2	2.545	3.439	9.3	22.0	<b>448735</b>	2011 <i>EK</i> <sub>82</sub>	8 29.9 252°86' 1.9"/27.6 17				
8 9	22 50.74	-16 19.1	2.469	3.427	6.6	21.8	7 30	22 54.23	-14 53.9	2.863	3.756	8.4	22.5
8 19	22 43.00	-16 59.8	2.419	3.414	3.7	21.6	8 9	22 48.68	-15 26.0	2.780	3.738	5.9	22.3
8 29	22 34.39	-17 37.8	2.398	3.400	2.5	21.5	8 19	22 41.88	-16 0.1	2.724	3.719	3.3	22.2
9 8	22 25.63	-18 8.7	2.406	3.386	4.7	21.7	8 29	22 34.32	-16 32.5	2.696	3.700	2.0	22.0
9 18	22 17.49	-18 29.3	2.443	3.371	7.7	21.8	9 8	22 26.62	-16 59.6	2.699	3.681	4.0	22.2
9 28	22 10.65	-18 37.7	2.506	3.356	10.5	22.0	9 18	22 19.41	-17 18.6	2.729	3.661	6.8	22.3
10 8	22 5.61	-18 33.4	2.591	3.339	12.9	22.1	9 28	22 13.28	-17 27.4	2.787	3.641	9.4	22.5
							10 8	22 8.71	-17 25.2	2.867	3.621	11.7	22.6
<b>387618</b>	2002 <i>GJ</i> <sub>48</sub>	8 29.9 152°06' 0°0"/29.8 17											
7 30	22 56.51	- 6 59.0	2.188	3.071	11.1	22.3	<b>338025</b>	2002 <i>GU</i> <sub>135</sub>	8 29.9 134°37' 0°4"/30.3 16				
8 9	22 50.39	- 7 35.6	2.128	3.080	7.8	22.1	7 30	22 56.40	- 5 41.5	1.950	2.834	12.2	21.6
8 19	22 42.79	- 8 20.6	2.093	3.088	4.2	21.9	8 9	22 50.46	- 6 13.0	1.891	2.842	8.7	21.4
8 29	22 34.37	- 9 9.5	2.086	3.095	0.3	21.6	8 19	22 42.88	- 6 54.7	1.857	2.851	4.7	21.2
9 8	22 25.92	- 9 57.6	2.107	3.102	3.5	21.9	8 29	22 34.40	- 7 42.2	1.850	2.859	0.7	20.9
9 18	22 18.23	-10 40.1	2.158	3.109	7.2	22.2	9 8	22 25.90	- 8 30.2	1.870	2.867	3.7	21.5
9 28	22 12.03	-11 13.6	2.234	3.115	10.4	22.4	9 18	22 18.26	- 9 13.6	1.919	2.874	7.6	21.5
10 8	22 7.76	-11 35.8	2.333	3.120	13.1	22.6	9 28	22 12.24	- 9 48.2	1.993	2.881	11.1	21.7
							10 8	22 8.34	-10 11.3	2.089	2.888	14.0	21.9
<b>18548</b>	Christoffel	8 29.9 167°12' 3°2"/1.9 18											
7 30	22 54.27	+ 2 30.0	1.813	2.674	14.0	18.3	<b>504665</b>	2009 <i>BW</i> <sub>106</sub>	8 29.9 230°46' 2°8"/31.8 17				
8 9	22 49.13	+ 2 3.4	1.744	2.675	10.6	18.1	7 30	22 59.39	- 1 18.9	1.450	2.330	15.8	21.3
8 19	22 42.25	+ 1 18.2	1.697	2.676	6.9	17.9	8 9	22 53.18	- 1 21.6	1.379	2.324	11.8	21.0
8 29	22 34.33	+ 0 17.5	1.677	2.677	3.6	17.7	8 19	22 44.61	- 1 41.6	1.330	2.317	7.2	20.8
9 8	22 26.29	- 0 53.1	1.683	2.678	4.2	17.7	8 29	22 34.55	- 2 16.1	1.305	2.311	3.1	20.5
9 18	22 19.06	- 2 6.7	1.716	2.679	7.7	18.0	9 8	22 24.24	- 2 59.5	1.306	2.304	4.8	20.6
9 28	22 13.48	- 3 16.4	1.775	2.679	11.3	18.2	9 18	22 14.95	- 3 45.0	1.333	2.296	9.4	20.9
10 8	22 10.10	- 4 16.3	1.855	2.680	14.5	18.4	9 28	22 7.83	- 4 25.8	1.384	2.288	13.9	21.1
							10 8	22 3.60	- 4 56.7	1.454	2.280	17.7	21.3
<b>62982</b>	2000 <i>VW</i> <sub>58</sub>	8 29.9 352°70' 11°6"/19.7 18											
7 30	22 53.89	-31 27.0	1.207	2.130	15.2	17.4	<b>300658</b>	2007 <i>UQ</i> <sub>118</sub>	8 29.9 325°64' 1°3"/30.9 18				
8 9	22 49.74	-33 19.7	1.171	2.123	12.7	17.2	7 30	22 53.98	- 3 49.0	1.659	2.548	13.7	20.3
8 19	22 42.86	-34 57.0	1.155	2.117	11.6	17.2	8 9	22 49.10	- 4 10.0	1.589	2.541	9.9	20.1
8 29	22 34.38	-36 5.5	1.161	2.113	12.4	17.2	8 19	22 42.32	- 4 45.0	1.541	2.534	5.7	19.8
9 8	22 25.87	-36 36.3	1.188	2.109	14.8	17.3	8 29	22 34.36	- 5 30.0	1.519	2.528	1.6	19.5
9 18	22 18.86	-36 27.2	1.233	2.107	17.7	17.5	9 8	22 26.24	- 6 19.1	1.523	2.521	4.0	19.7
9 28	22 14.54	-35 41.2	1.296	2.107	20.5	17.7	9 18	22 18.96	- 7 6.3	1.553	2.515	8.4	19.9
10 8	22 13.50	-34 24.9	1.373	2.107	23.0	17.9	9 28	22 13.46	- 7 45.8	1.608	2.510	12.4	20.2
							10 8	22 10.34	- 8 13.7	1.683	2.505	15.9	20.4
<b>177272</b>	2003 <i>WO</i> <sub>122</sub>	8 29.9 309°05' 2°1"/28.6 18											
7 30	22 58.00	-12 2.8	1.259	2.174	15.3	19.9	<b>95154</b>	2002 <i>AZ</i> <sub>170</sub>	8 29.9 65°14' 0°5"/30.3 16				
8 9	22 52.52	-12 28.6	1.191	2.158	10.8	19.6	7 30	22 56.28	- 5 49.7	1.582	2.476	14.0	20.1
8 19	22 44.38	-13 2.4	1.144	2.144	5.8	19.3	8 9	22 50.67	- 6 16.0	1.526	2.482	10.0	19.8
8 29	22 34.51	-13 37.2	1.121	2.129	2.1	19.0	8 19	22 43.10	- 6 54.3	1.492	2.488	5.4	19.6
9 8	22 24.33	-14 5.2	1.122	2.115	6.3	19.3	8 29	22 34.42	- 7 39.8	1.484	2.494	0.8	19.3
9 18	22 15.31	-14 20.2	1.146	2.101	11.6	19.5	9 8	22 25.72	- 8 26.1	1.502	2.500	4.2	19.6
9 28	22 8.75	-14 18.5	1.192	2.087	16.4	19.8	9 18	22 18.04	- 9 7.3	1.546	2.506	8.7	19.8
10 8	22 5.41	-13 59.2	1.256	2.075	20.4	20.0	9 28	22 12.30	- 9 38.4	1.615	2.512	12.7	20.1
							10 8	22 9.04	- 9 56.5	1.703	2.518	16.1	20.3
<b>113757</b>	2002 <i>TM</i> <sub>170</sub>	8 29.9 59°34' 6°3"/4.5 18											
7 30	22 55.42	+ 8 54.6	1.816	2.645	15.4	18.9	<b>321298</b>	2009 <i>FC</i> <sub>55</sub>	8 29.9 141°41' 0°6"/29.4 17				
8 9	22 49.93	+ 9 17.5	1.752	2.652	12.4	18.7	7 30	22 57.53	- 7 2.0	1.504	2.401	14.4	21.9
8 19	22 42.67	+ 9 18.9	1.708	2.659	9.3	18.5	8 9	22 51.64	- 8 0.2	1.449	2.408	10.1	21.7
8 29	22 34.37	+ 8 59.0	1.688	2.666	6.9	18.4	8 19	22 43.66	- 9 11.1	1.417	2.414	5.3	21.4
9 8	22 25.96	+ 8 20.8	1.694	2.672	6.5	18.4	8 29	22 34.47	-10 27.4	1.410	2.420	0.6	21.1
9 18	22 18.41	+ 7 29.7	1.726	2.679	8.4	18.5	9 8	22 25.24	-11 40.7	1.431	2.426	4.9	21.4
9 28	22 12.55	+ 6 32.4	1.782	2.687	11.3	18.7	9 18	22 17.11	-12 43.5	1.477	2.431	9.6	21.7
10 8	22 8.95	+ 5 36.0	1.861	2.694	14.2	18.9	9 28	22 11.05	-13 30.4	1.547	2.436	13.7	22.0
							10 8	22 7.64	-13 59.0	1.637	2.440	17.1	22.2
<b>392762</b>	2012 <i>TC</i> <sub>5</sub>												

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>186990</b>	2004 <i>TD</i> <sub>7</sub>		8 29.9 10°00'	9°6'/20.3	18		<b>521752</b>	2015 <i>RO</i> <sub>274</sub>		8 29.9 269°15'	0°5'/29.4	17	
7 30	22 55.30	-32 57.4	1.689	2.593	12.6	18.7	7 30	22 53.45	-8 43.9	2.339	3.229	10.2	22.1
8 9	22 50.10	-34 24.7	1.657	2.595	10.6	18.5	8 9	22 48.35	-9 16.1	2.259	3.214	7.2	21.9
8 19	22 42.81	-35 37.6	1.648	2.598	9.6	18.5	8 19	22 41.80	-9 55.5	2.203	3.200	3.8	21.7
8 29	22 34.40	-36 27.2	1.662	2.602	10.2	18.5	8 29	22 34.36	-10 38.1	2.176	3.185	0.5	21.4
9 8	22 26.06	-36 48.0	1.700	2.606	12.0	18.7	9 8	22 26.76	-11 19.6	2.177	3.170	3.6	21.6
9 18	22 18.92	-36 38.8	1.759	2.611	14.2	18.8	9 18	22 19.73	-11 55.8	2.205	3.156	7.1	21.8
9 28	22 13.91	-36 1.6	1.837	2.617	16.5	19.0	9 28	22 13.98	-12 23.1	2.260	3.141	10.3	22.0
10 8	22 11.52	-35 1.1	1.932	2.624	18.4	19.2	10 8	22 10.01	-12 39.4	2.337	3.125	13.1	22.2
<b>319133</b>	2005 <i>YK</i> <sub>8</sub>		8 29.9 145°31'	2°1'/1.1	18		<b>275684</b>	2000 <i>SC</i> <sub>56</sub>		8 29.9 27°78'	0°2'/30.0	16	
7 30	22 53.90	-0 53.5	2.411	3.273	11.0	21.4	7 30	22 55.75	-7 11.8	1.189	2.101	16.3	19.8
8 9	22 48.52	-0 59.1	2.341	3.275	8.1	21.2	8 9	22 50.64	-7 28.7	1.147	2.112	11.5	19.5
8 19	22 41.81	-1 15.7	2.295	3.278	5.1	21.0	8 19	22 43.19	-7 58.4	1.125	2.123	6.2	19.3
8 29	22 34.33	-1 41.2	2.276	3.280	2.4	20.8	8 29	22 34.47	-8 34.9	1.127	2.136	0.6	18.9
9 8	22 26.79	-2 12.3	2.286	3.282	3.2	20.9	9 8	22 25.86	-9 10.8	1.152	2.150	5.0	19.3
9 18	22 19.86	-2 45.3	2.325	3.284	6.2	21.1	9 18	22 18.64	-9 39.6	1.201	2.165	10.1	19.6
9 28	22 14.21	-3 16.1	2.390	3.286	9.2	21.3	9 28	22 13.81	-9 56.4	1.272	2.180	14.6	19.9
10 8	22 10.26	-3 41.7	2.479	3.288	11.8	21.5	10 8	22 11.91	-9 58.9	1.362	2.196	18.3	20.2
<b>13684</b>	Borbona		8 29.9 231°44'	5°0'/4.2	18		<b>90410</b>	2003 <i>YS</i> <sub>84</sub>		8 29.9 85°10'	4°4'/2.2	18	
7 30	22 54.91	+8 35.5	2.586	3.396	11.8	18.0	7 30	22 59.45	+3 1.1	1.456	2.320	16.7	19.3
8 9	22 49.26	+9 0.5	2.501	3.390	9.6	17.9	8 9	22 52.92	+3 5.2	1.408	2.339	12.7	19.1
8 19	22 42.23	+9 10.6	2.440	3.384	7.3	17.7	8 19	22 44.31	+2 48.4	1.382	2.358	8.4	18.9
8 29	22 34.37	+9 5.5	2.405	3.378	5.4	17.6	8 29	22 34.57	+2 13.1	1.379	2.377	4.9	18.8
9 8	22 26.34	+8 47.0	2.397	3.371	5.2	17.6	9 8	22 24.92	+1 25.1	1.403	2.396	5.3	18.9
9 18	22 18.84	+8 18.0	2.418	3.365	6.8	17.7	9 18	22 16.52	+0 31.4	1.452	2.414	8.8	19.1
9 28	22 12.52	+7 42.7	2.465	3.358	9.1	17.8	9 28	22 10.29	-0 20.6	1.525	2.432	12.7	19.4
10 8	22 7.88	+7 5.7	2.536	3.351	11.4	17.9	10 8	22 6.77	-1 4.8	1.619	2.450	16.0	19.7
<b>361433</b>	2006 <i>YO</i> <sub>53</sub>		8 29.9 84°82'	2°5'/1.2	18		<b>256783</b>	2008 <i>CD</i> <sub>18</sub>		8 29.9 31°02'	0°1'/29.8	18	
7 30	22 55.08	-0 29.6	2.164	3.028	12.0	21.0	7 30	22 53.45	-7 2.6	1.860	2.754	12.2	20.3
8 9	22 49.43	-0 29.0	2.101	3.036	8.9	20.8	8 9	22 48.50	-7 38.0	1.801	2.758	8.6	20.1
8 19	22 42.31	-0 40.6	2.061	3.043	5.6	20.6	8 19	22 41.91	-8 23.3	1.766	2.762	4.6	19.8
8 29	22 34.37	-1 2.3	2.049	3.051	2.8	20.5	8 29	22 34.38	-9 13.4	1.757	2.767	0.4	19.5
9 8	22 26.40	-1 30.6	2.064	3.059	3.6	20.5	9 8	22 26.82	-10 2.8	1.775	2.771	3.9	19.8
9 18	22 19.17	-2 1.3	2.107	3.067	6.7	20.8	9 18	22 20.08	-10 46.1	1.820	2.776	7.9	20.1
9 28	22 13.37	-2 30.4	2.176	3.075	9.8	21.0	9 28	22 14.94	-11 19.1	1.890	2.782	11.5	20.3
10 8	22 9.47	-2 54.3	2.268	3.082	12.6	21.2	10 8	22 11.91	-11 39.4	1.982	2.787	14.5	20.5
<b>137943</b>	2000 <i>BZ</i> <sub>48</sub>		8 29.9 227°82'	3°1'/1.4	18		<b>94587</b>	2001 <i>VH</i> <sub>53</sub>		8 29.9 78°51'	0°8'/30.4	17	
7 30	22 58.49	+0 38.3	1.861	2.722	13.7	21.2	7 30	23 1.16	-6 32.3	1.270	2.169	16.3	19.4
8 9	22 52.20	+0 37.1	1.780	2.712	10.4	21.0	8 9	22 54.53	-6 32.4	1.214	2.172	11.7	19.1
8 19	22 43.98	+0 20.4	1.721	2.701	6.7	20.7	8 19	22 45.34	-6 45.1	1.179	2.175	6.5	18.8
8 29	22 34.52	-0 10.0	1.688	2.690	3.5	20.5	8 29	22 34.67	-7 5.7	1.168	2.177	1.2	18.5
9 8	22 24.80	-0 49.8	1.683	2.678	4.3	20.6	9 8	22 23.93	-7 28.3	1.182	2.180	4.9	18.8
9 18	22 15.83	-1 34.0	1.706	2.665	8.0	20.8	9 18	22 14.55	-7 47.0	1.221	2.183	10.2	19.1
9 28	22 8.56	-2 16.7	1.754	2.652	11.8	21.0	9 28	22 7.69	-7 57.1	1.283	2.186	14.9	19.4
10 8	22 3.63	-2 52.9	1.824	2.638	15.1	21.1	10 8	22 3.98	-7 55.7	1.363	2.189	18.8	19.6
<b>244770</b>	2003 <i>SL</i> <sub>134</sub>		8 29.9 288°11'	2°0'/31.5	18		<b>36937</b>	2000 <i>SX</i> <sub>229</sub>		8 29.9 226°37'	0°3'/29.5	18	
7 30	22 55.92	-2 33.4	1.726	2.607	13.7	20.4	7 30	22 53.43	-7 58.4	2.486	3.371	9.8	20.3
8 9	22 50.49	-2 38.8	1.648	2.594	10.1	20.1	8 9	22 48.24	-8 36.5	2.409	3.363	6.9	20.1
8 19	22 43.09	-2 58.0	1.592	2.581	6.1	19.8	8 19	22 41.71	-9 21.9	2.358	3.354	3.7	19.8
8 29	22 34.45	-3 28.4	1.562	2.569	2.3	19.6	8 29	22 34.37	-10 10.9	2.336	3.346	0.4	19.5
9 8	22 25.55	-4 5.2	1.558	2.556	4.1	19.7	9 8	22 26.91	-10 58.9	2.342	3.336	3.4	19.8
9 18	22 17.45	-4 43.0	1.581	2.543	8.3	19.9	9 18	22 20.01	-11 41.8	2.377	3.327	6.7	20.0
9 28	22 11.09	-5 16.4	1.629	2.531	12.3	20.1	9 28	22 14.32	-12 16.3	2.439	3.317	9.7	20.2
10 8	22 7.14	-5 41.0	1.697	2.518	15.8	20.3	10 8	22 10.32	-12 39.9	2.523	3.307	12.3	20.3
<b>35380</b>	1997 <i>WJ</i> <sub>21</sub>		8 29.9 153°70'	2°6'/1.3	18		<b>477130</b>	2009 <i>CS</i> <sub>57</sub>		8 29.9 154°64'	0°9'/29.1	18	
7 30	22 58.05	+0 59.8	1.853	2.714	13.8	19.3	7 30	22 57.61	-10 39.5	2.170	3.060	10.9	21.7
8 9	22 51.72	+0 27.2	1.790	2.723	10.3	19.1	8 9	22 51.21	-11 0.0	2.108	3.065	7.6	21.5
8 19	22 43.61	-0 22.5	1.750	2.732	6.4	18.9	8 19	22 43.29	-11 25.4	2.072	3.069	4.0	21.3
8 29	22 34.49	-1 25.3	1.737	2.740	2.9	18.7	8 29	22 34.51	-11 51.7	2.064	3.073	0.9	21.1
9 8	22 25.31	-2 35.4	1.752	2.748	3.9	18.8	9 8	22 25.71	-12 14.9	2.085	3.077	3.9	21.3
9 18	22 17.04	-3 45.9	1.794	2.754	7.7	19.0	9 18	22 17.71	-12 31.4	2.134	3.081	7.5	21.5
9 28	22 10.50	-4 50.5	1.863	2.760	11.3	19.3	9 28	22 11.24	-12 38.8	2.208	3.084	10.7	21.7
10 8	22 6.23	-5 44.4	1.954	2.765	14.4	19.5	10 8	22 6.77	-12 35.8	2.305	3.087	13.4	21.9
<b>69930</b>	1998 <i>TQ</i> <sub>33</sub>		8 29.9 142°87'	6°6'/23.3	18		<b>433972</b>	1999 <i>TT</i> <sub>153</sub>		8 29.9 346°41'	8°3'/7.7	18	
7 30	22 59.60	-28 29.6	2.180	3.075	10.6	17.9	7 30	22 45.72	+15 12.1	1.255	2.091	20.5	19.6
8 9	22 52.65	-29 29.5	2.140	3.083	8.3	17.8	8 9	22 43.78	+14 34.0	1.179	2.078	17.2	19.4
8 19	22 44.02	-30 20.6	2.125	3.091	6.8	17.7	8 19	22 39.69	+13 13.0	1.119	2.067	13.5	19.1
8 29	22 34.52	-30 56.3	2.137	3.098	6.9	17.7	8 29	22 34.22	+11 9.0	1.080	2.057	9.9	18.9
9 8	22 25.10	-31 12.5	2.175	3.105	8.6	17.8	9 8	22 28.48	+8 29.4	1.064	2.048	8.3	18.8
9 18	22 16.69	-31 7.5	2.239	3.112	10.8	18.0	9 18	22 23.67	+5 28.1	1.071	2.041	10.2	18.9
9 28	22 10.05	-30 42.2	2.326	3.118	13.1	18.2	9 28	22 20.89	+2 23.2	1.103	2.036	14.0	19.1
10 8	22 5.66	-29 59.6	2.431	3.124	15.0	18.3	10 8	22 20.86	-0 28.1	1.156	2.032	18.0	19.3
<b>320326</b>	2007 <i>TA</i> <sub>48</sub>		8 29.9 8°32'	0°8'/30.3	17		<b>152480</b>	2005 <i>WB</i> <sub>56</sub>		8 29.9 93°27'	4°8'/24.7	18	

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>70137</b>	1999 <i>NJ</i> <sub>10</sub>		8 29.9 56°34	1°8/30.9	18		<b>411831</b>	2012 <i>DX</i> <sub>47</sub>		8 29.9 172°68	0°1/30.0	18	
7 30	22 59.98	− 4 31.5	1.262	2.158	16.6	18.2	7 30	22 55.48	− 7 55.5	2.413	3.296	10.2	21.2
8 9	22 53.59	− 4 27.2	1.213	2.168	12.0	17.9	8 9	22 49.64	− 8 4.6	2.345	3.297	7.2	21.0
8 19	22 44.79	− 4 37.5	1.184	2.178	6.9	17.7	8 19	22 42.44	− 8 19.9	2.302	3.297	3.9	20.8
8 29	22 34.64	− 4 58.7	1.180	2.188	2.1	17.4	8 29	22 34.47	− 8 38.4	2.288	3.298	0.4	20.5
9 8	22 24.53	− 5 24.6	1.200	2.198	4.8	17.6	9 8	22 26.44	− 8 56.8	2.302	3.298	3.2	20.7
9 18	22 15.81	− 5 49.1	1.245	2.209	9.8	17.9	9 18	22 19.07	− 9 12.0	2.345	3.298	6.6	20.9
9 28	22 9.56	− 6 7.0	1.312	2.220	14.3	18.2	9 28	22 13.02	− 9 21.3	2.415	3.299	9.6	21.1
10 8	22 6.34	− 6 14.4	1.399	2.231	18.0	18.5	10 8	22 8.74	− 9 22.9	2.507	3.299	12.2	21.3
<b>155790</b>	2000 <i>TC</i> <sub>10</sub>		8 29.9 5°02	1°1/30.7	18		<b>519646</b>	2012 <i>UN</i> <sub>183</sub>		8 29.9 305°75	4°8/2.0	18	
7 30	22 51.79	− 4 12.7	1.161	2.071	16.6	19.7	7 30	22 57.49	+ 2 7.2	1.581	2.447	15.5	21.0
8 9	22 48.04	− 4 41.2	1.108	2.071	12.0	19.4	8 9	22 51.88	+ 2 42.4	1.496	2.427	12.1	20.7
8 19	22 41.92	− 5 28.0	1.075	2.072	6.8	19.1	8 19	22 44.01	+ 3 1.1	1.432	2.408	8.3	20.5
8 29	22 34.41	− 6 27.1	1.064	2.073	1.5	18.8	8 29	22 34.62	+ 3 2.9	1.392	2.388	5.2	20.2
9 8	22 26.81	− 7 29.7	1.077	2.077	4.9	19.1	9 8	22 24.79	+ 2 50.3	1.378	2.370	5.7	20.2
9 18	22 20.41	− 8 26.9	1.113	2.081	10.2	19.4	9 18	22 15.74	+ 2 27.4	1.389	2.351	9.3	20.4
9 28	22 16.32	− 9 11.3	1.171	2.087	14.9	19.7	9 28	22 8.60	+ 2 0.4	1.424	2.333	13.3	20.6
10 8	22 15.13	− 9 38.3	1.247	2.094	18.9	19.9	10 8	22 4.15	+ 1 35.4	1.480	2.315	17.0	20.8
<b>289442</b>	2005 <i>EG</i> <sub>39</sub>		8 29.9 200°42	0°2/30.0	17		<b>257682</b>	1999 <i>VC</i> <sub>150</sub>		8 29.9 328°58	8°2/21.9	18	
7 30	22 57.42	− 5 39.7	1.605	2.496	14.0	21.1	7 30	22 58.52	− 32 21.4	2.003	2.897	11.4	20.0
8 9	22 51.60	− 6 24.7	1.538	2.493	10.0	20.9	8 9	22 52.17	− 33 19.6	1.956	2.892	9.4	19.9
8 19	22 43.70	− 7 23.3	1.495	2.491	5.4	20.6	8 19	22 43.90	− 34 5.8	1.933	2.886	8.3	19.8
8 29	22 34.56	− 8 29.9	1.478	2.488	0.5	20.2	8 29	22 34.59	− 34 33.0	1.935	2.881	8.6	19.8
9 8	22 25.25	− 9 36.8	1.488	2.484	4.4	20.5	9 8	22 25.30	− 34 36.5	1.962	2.877	10.2	19.9
9 18	22 16.90	− 10 36.9	1.524	2.480	9.1	20.8	9 18	22 17.07	− 34 15.1	2.013	2.872	12.4	20.1
9 28	22 10.50	− 11 24.4	1.584	2.476	13.3	21.0	9 28	22 10.78	− 33 30.3	2.085	2.868	14.7	20.2
10 8	22 6.65	− 11 56.2	1.665	2.471	16.7	21.3	10 8	22 6.94	− 32 26.0	2.175	2.864	16.7	20.4
<b>256430</b>	2007 <i>BG</i> <sub>69</sub>		8 29.9 216°72	0°2/29.7	18		<b>905</b>	Universitas		8 29.9 325°73	5°0/26.8	18	
7 30	22 53.31	− 7 33.0	2.478	3.362	9.9	21.7	7 30	22 57.25	− 17 4.2	1.070	1.998	16.2	14.1
8 9	22 48.15	− 8 8.9	2.404	3.357	7.0	21.6	8 9	22 52.35	− 17 52.1	1.011	1.983	11.6	13.8
8 19	22 41.66	− 8 52.2	2.356	3.351	3.7	21.3	8 19	22 44.45	− 18 43.3	0.971	1.969	6.9	13.5
8 29	22 34.39	− 9 39.3	2.336	3.346	0.3	21.0	8 29	22 34.65	− 19 27.3	0.954	1.956	5.2	13.4
9 8	22 27.01	− 10 25.8	2.345	3.340	3.3	21.3	9 8	22 24.57	− 19 54.1	0.959	1.944	9.0	13.5
9 18	22 20.21	− 11 7.6	2.382	3.333	6.6	21.5	9 18	22 15.88	− 19 57.4	0.986	1.932	14.1	13.8
9 28	22 14.63	− 11 41.3	2.446	3.327	9.6	21.7	9 28	22 10.02	− 19 35.4	1.032	1.922	18.8	14.0
10 8	22 10.72	− 12 4.5	2.533	3.320	12.2	21.9	10 8	22 7.74	− 18 50.0	1.094	1.912	22.8	14.3
<b>299081</b>	2005 <i>EK</i> <sub>39</sub>		8 29.9 6°16	0°0/29.8	18		<b>370280</b>	2002 <i>QA</i> <sub>83</sub>		8 29.9 12°61	3°3/31.9	13 C	
7 30	22 54.18	− 6 40.3	1.695	2.591	13.1	21.2	7 30	22 55.11	− 1 36.2	1.077	1.980	18.3	20.8
8 9	22 49.18	− 7 19.2	1.633	2.591	9.3	20.9	8 9	22 50.50	− 1 26.7	1.027	1.983	13.6	20.5
8 19	22 42.35	− 8 9.5	1.595	2.591	5.0	20.7	8 19	22 43.29	− 1 37.9	0.995	1.986	8.4	20.3
8 29	22 34.44	− 9 5.9	1.582	2.592	0.4	20.3	8 29	22 34.55	− 2 6.5	0.985	1.991	3.7	20.0
9 8	22 26.45	− 10 1.7	1.596	2.592	4.2	20.7	9 8	22 25.74	− 2 45.6	0.998	1.997	5.3	20.1
9 18	22 19.35	− 10 51.0	1.636	2.593	8.5	20.9	9 18	22 18.32	− 3 27.2	1.033	2.004	10.4	20.4
9 28	22 14.01	− 11 28.8	1.701	2.594	12.4	21.2	9 28	22 13.46	− 4 3.3	1.090	2.012	15.2	20.7
10 8	22 10.97	− 11 52.2	1.786	2.595	15.6	21.4	10 8	22 11.78	− 4 27.9	1.164	2.021	19.3	21.0
<b>235754</b>	2004 <i>UP</i> <sub>3</sub>		8 29.9 333°39	5°8/26.0	18		<b>511295</b>	2014 <i>DH</i> <sub>66</sub>		8 29.9 279°56	1°3/28.6	18	
7 30	22 53.71	− 18 51.5	1.135	2.066	15.2	19.2	7 30	22 53.73	− 8 27.6	1.753	2.653	12.5	21.4
8 9	22 49.81	− 19 42.9	1.068	2.041	11.0	18.9	8 9	22 49.02	− 9 39.1	1.672	2.633	8.8	21.1
8 19	22 43.10	− 20 36.0	1.021	2.017	7.0	18.6	8 19	22 42.38	− 11 3.4	1.616	2.614	4.6	20.8
8 29	22 34.53	− 21 20.4	0.996	1.995	6.0	18.5	8 29	22 34.48	− 12 33.7	1.586	2.594	1.3	20.6
9 8	22 25.57	− 21 46.3	0.994	1.974	9.5	18.6	9 8	22 26.27	− 14 1.5	1.583	2.575	5.0	20.8
9 18	22 17.79	− 21 47.0	1.012	1.954	14.3	18.8	9 18	22 18.76	− 15 19.1	1.607	2.555	9.4	21.0
9 28	22 12.60	− 21 20.6	1.050	1.936	18.9	19.0	9 28	22 12.92	− 16 20.2	1.655	2.535	13.4	21.2
10 8	22 10.82	− 20 29.0	1.103	1.920	22.8	19.2	10 8	22 9.43	− 17 1.8	1.723	2.514	16.8	21.4
<b>393150</b>	2013 <i>BY</i> <sub>79</sub>		8 29.9 282°08	1°7/31.5	18		<b>146087</b>	2000 <i>JS</i> <sub>13</sub>		8 29.9 115°81	0°8/30.6	17	
7 30	22 53.57	− 2 1.2	1.922	2.799	12.7	20.5	7 30	22 57.20	− 4 9.4	1.736	2.620	13.5	20.5
8 9	22 48.64	− 2 28.2	1.849	2.794	9.3	20.3	8 9	22 51.17	− 4 48.3	1.684	2.634	9.6	20.3
8 19	22 42.04	− 3 9.3	1.799	2.788	5.5	20.0	8 19	22 43.36	− 5 40.1	1.654	2.647	5.4	20.0
8 29	22 34.43	− 4 0.8	1.775	2.782	2.0	19.8	8 29	22 34.56	− 6 39.7	1.651	2.660	1.1	19.8
9 8	22 26.67	− 4 57.6	1.779	2.777	3.6	19.9	9 8	22 25.80	− 7 40.5	1.676	2.673	3.9	20.0
9 18	22 19.63	− 5 53.7	1.810	2.771	7.5	20.1	9 18	22 18.02	− 8 36.3	1.728	2.686	8.1	20.3
9 28	22 14.13	− 6 43.8	1.866	2.765	11.1	20.4	9 28	22 12.06	− 9 22.0	1.804	2.697	11.8	20.6
10 8	22 10.71	− 7 23.5	1.944	2.760	14.3	20.6	10 8	22 8.42	− 9 54.5	1.903	2.709	14.9	20.8
<b>402446</b>	2006 <i>BN</i> <sub>52</sub>		8 29.9 240°39	1°8/27.7	18		<b>381807</b>	2009 <i>UD</i> <sub>118</sub>		8 29.9 281°56	1°3/28.9	18	
7 30	22 51.96	− 12 7.9	2.363	3.262	9.7	21.1	7 30	22 56.95	− 9 55.0	1.559	2.462	13.6	21.9
8 9	22 47.26	− 13 9.5	2.297	3.259	6.8	20.9	8 9	22 51.49	− 10 34.1	1.481	2.444	9.6	21.6
8 19	22 41.21	− 14 16.3	2.257	3.255	3.6	20.7	8 19	22 43.78	− 11 23.2	1.427	2.425	5.1	21.3
8 29	22 34.36	− 15 23.1	2.245	3.251	1.9	20.5	8 29	22 34.62	− 12 16.3	1.397	2.406	1.3	21.0
9 8	22 27.41	− 16 24.5	2.262	3.247	4.4	20.7	9 8	22 25.11	− 13 5.9	1.394	2.388	5.3	21.2
9 18	22 21.07	− 17 15.8	2.306	3.243	7.6	20.9	9 18	22 16.47	− 13 45.6	1.417	2.369	10.1	21.5
9 28	22 16.00	− 17 54.0	2.376	3.239	10.5	21.1	9 28	22 9.81	− 14 10.6	1.463	2.350	14.4	21.7
10 8	22 12.65	− 18 17.5	2.468	3.235	13.0	21.3	10 8	22 5.85	− 14 18.5	1.528	2.3		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>445798</b>	2012 <i>BV</i> <sub>29</sub>		8 29.9 275°24	1°6/31.3	17		<b>327173</b>	2005 <i>JQ</i> <sub>105</sub>		8 29.9 5°55	7°6/25.0	16	
7 30	22 55.28	- 3 25.1	2.140	3.015	11.7	21.7	7 30	22 51.36	-20 29.2	0.874	1.819	17.0	19.6
8 9	22 49.73	- 3 28.4	2.062	3.005	8.5	21.4	8 9	22 48.28	-21 44.8	0.840	1.818	12.3	19.4
8 19	22 42.61	- 3 42.2	2.007	2.996	5.1	21.2	8 19	22 42.23	-22 57.3	0.823	1.819	8.5	19.2
8 29	22 34.51	- 4 4.0	1.980	2.987	1.8	21.0	8 29	22 34.51	-23 53.0	0.827	1.822	8.0	19.2
9 8	22 26.26	- 4 30.2	1.980	2.977	3.4	21.1	9 8	22 26.86	-24 21.2	0.851	1.828	11.4	19.4
9 18	22 18.66	- 4 56.8	2.008	2.968	7.0	21.3	9 18	22 20.91	-24 17.0	0.894	1.835	15.8	19.6
9 28	22 12.48	- 5 19.8	2.063	2.958	10.4	21.5	9 28	22 17.88	-23 41.5	0.954	1.844	20.0	19.9
10 8	22 8.27	- 5 36.0	2.139	2.949	13.4	21.7	10 8	22 18.27	-22 39.2	1.029	1.855	23.5	20.2
<b>91803</b>	1999 <i>TZ</i> <sub>235</sub>		8 29.9 353°05	3°8/26.2	18		<b>240185</b>	2002 <i>QQ</i> <sub>97</sub>		8 29.9 38°71	1°4/28.8	18	
7 30	22 53.55	-17 25.5	1.892	2.803	11.2	19.0	7 30	22 55.29	-10 12.7	1.526	2.433	13.6	20.5
8 9	22 48.64	-18 24.3	1.836	2.801	7.9	18.8	8 9	22 50.04	-10 53.3	1.478	2.442	9.5	20.3
8 19	22 42.04	-19 24.2	1.804	2.799	4.8	18.6	8 19	22 42.84	-11 41.8	1.452	2.451	4.9	20.1
8 29	22 34.46	-20 18.7	1.799	2.797	3.9	18.6	8 29	22 34.57	-12 32.0	1.453	2.461	1.4	19.9
9 8	22 26.82	-21 1.5	1.821	2.796	6.4	18.7	9 8	22 26.34	-13 16.7	1.479	2.472	5.1	20.1
9 18	22 20.03	-21 28.4	1.869	2.796	9.7	18.9	9 18	22 19.20	-13 50.6	1.530	2.483	9.4	20.4
9 28	22 14.87	-21 37.5	1.939	2.795	12.9	19.1	9 28	22 14.03	-14 10.1	1.605	2.494	13.3	20.7
10 8	22 11.88	-21 28.9	2.030	2.795	15.5	19.3	10 8	22 11.35	-14 13.8	1.700	2.506	16.4	20.9
<b>505849</b>	2015 <i>CR</i> <sub>46</sub>		8 29.9 207°42	0°4/30.2	17		<b>52250</b>	1981 <i>EE</i> <sub>32</sub>		8 29.9 176°34	3°6/ 2.1	18	
7 30	22 59.33	- 6 40.5	1.640	2.530	13.8	21.4	7 30	22 56.19	+ 2 48.2	1.724	2.584	14.7	20.1
8 9	22 52.91	- 6 54.1	1.573	2.527	9.9	21.1	8 9	22 50.63	+ 2 32.8	1.655	2.585	11.2	19.9
8 19	22 44.41	- 7 18.1	1.530	2.525	5.4	20.9	8 19	22 43.19	+ 1 58.1	1.608	2.586	7.4	19.6
8 29	22 34.67	- 7 48.5	1.512	2.522	0.7	20.5	8 29	22 34.61	+ 1 6.9	1.587	2.586	4.1	19.4
9 8	22 24.78	- 8 19.9	1.522	2.518	4.3	20.8	9 8	22 25.89	+ 0 4.4	1.592	2.587	4.5	19.5
9 18	22 15.89	- 8 46.9	1.558	2.515	8.8	21.1	9 18	22 18.04	- 1 2.5	1.624	2.586	8.1	19.7
9 28	22 8.96	- 9 5.4	1.618	2.511	12.9	21.3	9 28	22 11.96	- 2 6.8	1.681	2.586	11.8	19.9
10 8	22 4.62	- 9 12.6	1.699	2.507	16.4	21.5	10 8	22 8.23	- 3 2.4	1.760	2.586	15.1	20.1
<b>443494</b>	2014 <i>JN</i> <sub>26</sub>		8 29.9 135°24	2°9/26.5	18		<b>467204</b>	2016 <i>ER</i> <sub>138</sub>		8 29.9 74°67	2°7/28.3	17	
7 30	22 54.00	-15 3.1	2.196	3.098	10.2	21.4	7 30	23 1.90	-13 31.7	1.228	2.141	15.8	20.0
8 9	22 48.74	-16 20.1	2.144	3.106	7.1	21.2	8 9	22 54.99	-14 2.7	1.186	2.153	11.0	19.7
8 19	22 42.01	-17 39.9	2.119	3.114	4.1	21.1	8 19	22 45.56	-14 38.4	1.166	2.165	5.9	19.5
8 29	22 34.47	-18 56.1	2.121	3.121	3.1	21.0	8 29	22 34.80	-15 10.9	1.170	2.177	2.7	19.3
9 8	22 26.89	-20 2.4	2.152	3.129	5.5	21.2	9 8	22 24.21	-15 33.1	1.199	2.189	6.5	19.6
9 18	22 20.06	-20 54.5	2.211	3.135	8.6	21.4	9 18	22 15.19	-15 40.3	1.252	2.201	11.4	19.9
9 28	22 14.66	-21 29.7	2.294	3.142	11.4	21.6	9 28	22 8.81	-15 30.8	1.326	2.213	15.6	20.2
10 8	22 11.16	-21 47.5	2.398	3.148	13.8	21.8	10 8	22 5.60	-15 5.2	1.419	2.225	19.1	20.5
<b>116609</b>	2004 <i>BO</i> <sub>111</sub>		8 29.9 123°50	3°6/26.8	17		<b>237060</b>	2008 <i>ST</i> <sub>181</sub>		8 29.9 225°50	2°5/27.7	18	
7 30	22 59.21	-16 4.3	1.754	2.658	12.3	20.3	7 30	22 56.60	-13 40.1	1.857	2.760	11.8	21.0
8 9	22 52.58	-17 9.7	1.711	2.673	8.6	20.1	8 9	22 50.85	-14 29.6	1.793	2.755	8.2	20.7
8 19	22 44.10	-18 16.6	1.692	2.687	5.0	19.9	8 19	22 43.28	-15 23.7	1.753	2.750	4.5	20.5
8 29	22 34.64	-19 17.4	1.701	2.701	3.7	19.9	8 29	22 34.62	-16 16.3	1.740	2.745	2.6	20.4
9 8	22 25.27	-20 5.4	1.737	2.715	6.4	20.1	9 8	22 25.85	-17 0.9	1.755	2.740	5.5	20.6
9 18	22 16.99	-20 36.5	1.799	2.727	10.0	20.3	9 18	22 17.93	-17 32.7	1.796	2.735	9.3	20.8
9 28	22 10.65	-20 48.9	1.885	2.739	13.2	20.5	9 28	22 11.74	-17 49.0	1.861	2.729	12.8	21.0
10 8	22 6.74	-20 43.5	1.991	2.751	15.9	20.8	10 8	22 7.83	-17 49.1	1.947	2.723	15.7	21.2
<b>369815</b>	2012 <i>HD</i> <sub>55</sub>		8 29.9 60°21	2°2/28.3	17		<b>46400</b>	2002 <i>CG</i> <sub>220</sub>		8 29.9 19°64	0°6/29.4	18	
7 30	22 57.84	-11 11.5	1.281	2.194	15.2	20.6	7 30	22 51.79	- 6 40.5	1.229	2.143	15.7	18.8
8 9	22 51.95	-12 8.7	1.247	2.214	10.5	20.4	8 9	22 47.91	- 7 41.9	1.183	2.150	11.0	18.5
8 19	22 43.85	-13 13.3	1.234	2.234	5.5	20.1	8 19	22 41.83	- 8 58.5	1.158	2.157	5.8	18.2
8 29	22 34.62	-14 16.8	1.246	2.254	2.2	20.0	8 29	22 34.50	-10 21.8	1.156	2.166	0.7	17.9
9 8	22 25.59	-15 10.4	1.283	2.274	6.1	20.3	9 8	22 27.17	-11 41.5	1.179	2.176	5.3	18.3
9 18	22 17.99	-15 48.2	1.345	2.295	10.7	20.6	9 18	22 21.04	-12 48.8	1.226	2.187	10.3	18.6
9 28	22 12.75	-16 7.1	1.429	2.316	14.7	20.9	9 28	22 17.10	-13 37.4	1.295	2.198	14.7	18.9
10 8	22 10.34	-16 7.0	1.531	2.336	18.0	21.2	10 8	22 15.88	-14 4.7	1.382	2.211	18.4	19.2
<b>428668</b>	2008 <i>GA</i> <sub>121</sub>		8 29.9 148°48	2°4/27.9	17		<b>368176</b>	2000 <i>BQ</i> <sub>12</sub>		8 29.9 333°81	0°0/29.8	18	
7 30	22 58.59	-12 50.9	1.719	2.621	12.6	21.6	7 30	22 52.83	- 7 55.3	1.020	1.943	17.2	19.9
8 9	22 52.25	-13 44.7	1.666	2.627	8.8	21.4	8 9	22 49.35	- 8 1.6	0.950	1.921	12.4	19.5
8 19	22 43.98	-14 43.7	1.636	2.634	4.7	21.2	8 19	22 42.97	- 8 22.3	0.899	1.899	6.8	19.2
8 29	22 34.64	-15 40.9	1.634	2.640	2.4	21.0	8 29	22 34.62	- 8 52.3	0.869	1.879	0.6	18.7
9 8	22 25.30	-16 29.7	1.659	2.645	5.6	21.3	9 8	22 25.79	- 9 23.5	0.861	1.860	5.8	19.0
9 18	22 16.97	-17 4.8	1.710	2.651	9.6	21.5	9 18	22 18.10	- 9 48.1	0.874	1.843	12.0	19.3
9 28	22 10.57	-17 23.6	1.786	2.655	13.1	21.7	9 28	22 13.07	- 9 59.2	0.906	1.828	17.6	19.5
10 8	22 6.63	-17 25.6	1.881	2.659	16.1	22.0	10 8	22 11.58	- 9 53.0	0.955	1.814	22.3	19.8
<b>402384</b>	2005 <i>YC</i> <sub>69</sub>		8 29.9 248°09	1°1/31.1	18		<b>14755</b>	6069 <i>P-L</i>		8 29.9 56°91	0°1/30.0	18	R
7 30	22 53.93	- 4 1.9	2.424	3.297	10.5	21.2	7 30	22 56.04	- 6 53.9	1.648	2.544	13.4	17.9
8 9	22 48.65	- 4 17.5	2.344	3.288	7.6	21.0	8 9	22 50.40	- 7 21.2	1.602	2.559	9.5	17.7
8 19	22 41.99	- 4 42.4	2.289	3.279	4.4	20.8	8 19	22 42.97	- 7 58.7	1.579	2.575	5.1	17.5
8 29	22 34.49	- 5 14.1	2.261	3.269	1.3	20.5	8 29	22 34.60	- 8 41.3	1.581	2.591	0.5	17.2
9 8	22 26.85	- 5 48.8	2.262	3.259	3.0	20.6	9 8	22 26.30	- 9 23.0	1.611	2.607	4.1	17.5
9 18	22 19.78	- 6 22.7	2.292	3.249	6.4	20.9	9 18	22 19.05	- 9 58.5	1.666	2.624	8.3	17.8
9 28	22 13.94	- 6 52.1	2.348	3.239	9.5	21.0	9 28	22 13.66	-10 23.8	1.746	2.640	12.1	18.0
10 8	22 9.82	- 7 14.1	2.427	3.229	12.2	21.2	10 8	22 10.61	-10 36.6	1.847	2.657	15.2	18.3
<b>259677</b>	2003 <i>XC</i> <sub>8</sub>		8 29.9 309°88	1°8/28.9	18		<b>68992</b>	2002 <i>TF</i> <sub>54</sub> </					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>259211</b>	2003 <i>AP</i> <sub>80</sub>		8 29.9	84°42'	8°3'/	1.9 16	<b>515198</b>	2011 <i>UT</i> <sub>355</sub>		8 29.9	1°15'	3°3'/	27.1 18
7 30	23 10.79	+ 3 0.2	1.028	1.898	21.6	19.5	7 30	22 54.42	-15 2.1	1.583	2.497	12.7	20.6
8 9	23 1.89	+ 4 49.3	0.976	1.906	17.0	19.2	8 9	22 49.52	-15 55.2	1.529	2.496	8.9	20.4
8 19	22 49.57	+ 6 17.0	0.943	1.914	12.2	19.0	8 19	22 42.64	-16 52.0	1.498	2.496	5.0	20.2
8 29	22 35.19	+ 7 17.9	0.932	1.922	8.7	18.9	8 29	22 34.63	-17 45.1	1.493	2.496	3.4	20.1
9 8	22 20.69	+ 7 51.4	0.946	1.930	9.2	18.9	9 8	22 26.56	-18 27.5	1.513	2.496	6.4	20.3
9 18	22 8.05	+ 8 1.3	0.982	1.937	12.9	19.2	9 18	22 19.49	-18 54.2	1.558	2.498	10.4	20.5
9 28	21 58.80	+ 7 55.9	1.039	1.945	17.3	19.4	9 28	22 14.35	-19 2.5	1.626	2.499	14.0	20.7
10 8	21 53.68	+ 7 44.6	1.114	1.953	21.2	19.7	10 8	22 11.68	-18 52.5	1.712	2.501	17.0	21.0
<b>333207</b>	2012 <i>HA</i> <sub>4</sub>		8 29.9	145°17'	2°0'/	28.3 17	<b>264841</b>	2002 <i>QO</i> <sub>82</sub>		8 29.9	346°55'	3°1'/	1.3 17
7 30	22 59.21	-11 40.3	1.720	2.619	12.8	21.9	7 30	22 56.98	+ 0 0.6	1.444	2.324	15.9	21.1
8 9	22 52.68	-12 32.7	1.668	2.628	8.9	21.7	8 9	22 51.48	- 0 7.3	1.380	2.323	11.9	20.9
8 19	22 44.23	-13 31.4	1.639	2.637	4.7	21.5	8 19	22 43.78	- 0 34.2	1.337	2.323	7.5	20.6
8 29	22 34.73	-14 29.4	1.638	2.645	2.0	21.3	8 29	22 34.75	- 1 17.0	1.319	2.323	3.5	20.4
9 8	22 25.22	-15 20.1	1.664	2.652	5.3	21.6	9 8	22 25.56	- 2 9.7	1.325	2.323	4.7	20.4
9 18	22 16.76	-15 58.3	1.716	2.659	9.3	21.8	9 18	22 17.40	- 3 5.0	1.357	2.322	9.0	20.7
9 28	22 10.23	-16 20.8	1.793	2.666	13.0	22.1	9 28	22 11.34	- 3 55.5	1.413	2.322	13.3	21.0
10 8	22 6.15	-16 26.9	1.891	2.671	16.0	22.3	10 8	22 8.00	- 4 35.6	1.489	2.322	17.0	21.2
<b>44930</b>	1999 <i>VC</i> <sub>39</sub>		8 29.9	74°31'	4°6'/	2.6 18	<b>116341</b>	2003 <i>YF</i> <sub>81</sub>		8 29.9	298°39'	5°5'/	24.7 18
7 30	22 56.95	+ 3 59.2	1.411	2.276	17.0	18.8	7 30	22 55.40	-20 52.0	1.731	2.644	11.9	19.4
8 9	22 51.34	+ 3 53.3	1.358	2.289	13.1	18.6	8 9	22 50.24	-22 7.8	1.670	2.633	8.7	19.2
8 19	22 43.61	+ 3 24.2	1.325	2.301	8.8	18.4	8 19	22 43.07	-23 22.7	1.634	2.622	6.0	19.0
8 29	22 34.67	+ 2 34.8	1.316	2.313	5.2	18.2	8 29	22 34.69	-24 28.3	1.623	2.612	5.8	19.0
9 8	22 25.73	+ 1 31.3	1.332	2.326	5.4	18.3	9 8	22 26.14	-25 16.9	1.639	2.601	8.3	19.1
9 18	22 17.94	+ 0 21.9	1.373	2.338	9.0	18.5	9 18	22 18.51	-25 44.0	1.679	2.591	11.6	19.3
9 28	22 12.29	- 0 44.9	1.438	2.351	12.9	18.8	9 28	22 12.74	-25 47.8	1.741	2.580	14.8	19.5
10 8	22 9.33	- 1 42.2	1.524	2.363	16.4	19.1	10 8	22 9.44	-25 29.8	1.821	2.570	17.6	19.7
<b>480460</b>	2015 <i>LN</i> <sub>3</sub>		8 29.9	47°01'	3°3'/	27.8 16	<b>512919</b>	2016 <i>XN</i> <sub>7</sub>		8 29.9	264°05'	4°2'/	26.0 18
7 30	23 0.10	-16 6.6	1.433	2.345	14.0	20.1	7 30	22 57.34	-19 56.5	2.034	2.938	10.8	21.1
8 9	22 53.40	-16 29.4	1.396	2.362	9.8	19.9	8 9	22 51.33	-20 41.6	1.968	2.928	7.8	20.9
8 19	22 44.60	-16 52.8	1.382	2.379	5.5	19.7	8 19	22 43.56	-21 25.5	1.927	2.917	5.0	20.7
8 29	22 34.75	-17 10.4	1.393	2.398	3.3	19.6	8 29	22 34.74	-22 2.1	1.913	2.907	4.4	20.6
9 8	22 25.15	-17 16.9	1.430	2.416	6.4	19.9	9 8	22 25.79	-22 25.9	1.926	2.896	6.6	20.7
9 18	22 16.95	-17 9.5	1.492	2.435	10.4	20.2	9 18	22 17.66	-22 33.8	1.966	2.885	9.8	20.9
9 28	22 11.04	-16 47.4	1.576	2.454	14.1	20.4	9 28	22 11.20	-22 24.6	2.029	2.874	12.8	21.1
10 8	22 7.88	-16 11.8	1.680	2.474	17.1	20.7	10 8	22 6.94	-21 59.0	2.112	2.862	15.4	21.3
<b>428603</b>	2008 <i>ED</i> <sub>123</sub>		8 29.9	180°57'	2°7'/	27.7 17	<b>178840</b>	2001 <i>HN</i> <sub>25</sub>		8 29.9	357°96'	5°0'/	26.9 18
7 30	22 59.06	-13 55.5	1.658	2.562	12.9	21.6	7 30	22 56.90	-17 43.3	1.072	2.001	16.1	18.7
8 9	22 52.71	-14 43.7	1.600	2.563	9.0	21.4	8 9	22 51.94	-18 21.5	1.024	1.997	11.4	18.5
8 19	22 44.33	-15 36.4	1.566	2.563	4.9	21.1	8 19	22 44.18	-19 0.4	0.996	1.994	6.9	18.2
8 29	22 34.76	-16 26.5	1.558	2.563	2.8	21.0	8 29	22 34.79	-19 30.4	0.991	1.993	5.1	18.1
9 8	22 25.12	-17 7.3	1.577	2.563	5.9	21.2	9 8	22 25.38	-19 42.9	1.008	1.993	8.6	18.3
9 18	22 16.52	-17 33.8	1.623	2.562	10.0	21.4	9 18	22 17.49	-19 33.8	1.047	1.993	13.4	18.6
9 28	22 9.92	-17 43.6	1.691	2.561	13.7	21.7	9 28	22 12.36	-19 2.2	1.105	1.996	17.8	18.8
10 8	22 5.89	-17 36.4	1.780	2.560	16.8	21.9	10 8	22 10.61	-18 10.6	1.180	1.999	21.5	19.1
<b>260317</b>	2004 <i>TJ</i> <sub>151</sub>		8 29.9	260°28'	0°1'/	30.1 18	<b>62589</b>	2000 <i>SA</i> <sub>302</sub>		8 29.9	52°92'	4°0'/	3.2 18
7 30	22 53.66	- 6 51.3	2.499	3.381	9.9	21.4	7 30	22 52.68	+ 5 19.3	2.115	2.958	13.0	19.2
8 9	22 48.49	- 7 18.9	2.414	3.364	7.1	21.2	8 9	22 47.93	+ 5 4.5	2.043	2.959	10.1	19.1
8 19	22 41.95	- 7 54.4	2.353	3.348	3.8	20.9	8 19	22 41.70	+ 4 31.9	1.992	2.959	7.0	18.9
8 29	22 34.56	- 8 34.5	2.321	3.331	0.4	20.6	8 29	22 34.58	+ 3 43.5	1.967	2.960	4.4	18.7
9 8	22 26.98	- 9 15.3	2.317	3.313	3.2	20.8	9 8	22 27.35	+ 2 43.4	1.970	2.960	4.4	18.7
9 18	22 19.93	- 9 52.7	2.343	3.296	6.6	21.0	9 18	22 20.78	+ 1 37.1	2.000	2.961	6.9	18.9
9 28	22 14.05	-10 23.2	2.394	3.278	9.7	21.2	9 28	22 15.60	+ 0 30.7	2.056	2.961	10.0	19.1
10 8	22 9.86	-10 44.3	2.469	3.260	12.4	21.4	10 8	22 12.29	- 0 30.3	2.135	2.962	12.8	19.3
<b>318468</b>	2005 <i>EZ</i> <sub>48</sub>		8 29.9	249°80'	1°1'/	31.1 18	<b>91102</b>	1998 <i>HL</i> <sub>19</sub>		8 29.9	175°22'	4°5'/	3.7 18
7 30	22 54.58	- 3 6.2	1.997	2.874	12.2	21.1	7 30	22 54.08	+ 7 15.0	1.933	2.769	14.3	19.8
8 9	22 49.40	- 3 41.0	1.916	2.862	8.9	20.9	8 9	22 49.04	+ 6 48.7	1.860	2.770	11.3	19.6
8 19	22 42.54	- 4 29.3	1.860	2.850	5.1	20.6	8 19	22 42.34	+ 6 0.8	1.808	2.771	8.0	19.4
8 29	22 34.62	- 5 27.1	1.830	2.838	1.4	20.4	8 29	22 34.64	+ 4 53.4	1.782	2.772	5.2	19.2
9 8	22 26.48	- 6 29.0	1.828	2.825	3.6	20.5	9 8	22 26.82	+ 3 31.8	1.783	2.772	4.9	19.2
9 18	22 19.00	- 7 29.1	1.853	2.812	7.5	20.7	9 18	22 19.73	+ 2 2.8	1.811	2.772	7.5	19.3
9 28	22 13.01	- 8 21.9	1.905	2.799	11.2	20.9	9 28	22 14.18	+ 0 34.2	1.866	2.772	10.8	19.5
10 8	22 9.09	- 9 3.4	1.978	2.785	14.4	21.1	10 8	22 10.73	- 0 46.9	1.943	2.772	13.8	19.7
<b>358360</b>	2006 <i>WM</i> <sub>188</sub>		8 29.9	257°74'	1°4'/	28.5 18	<b>514030</b>	2014 <i>KL</i> <sub>72</sub>		8 29.9	193°28'	3°3'/	2.7 18
7 30	22 54.27	-11 9.4	2.134	3.031	10.7	21.3	7 30	22 52.49	+ 4 7.4	2.175	3.022	12.5	21.4
8 9	22 49.07	-11 53.5	2.062	3.022	7.5	21.1	8 9	22 47.77	+ 3 38.1	2.100	3.022	9.6	21.2
8 19	22 42.31	-12 43.7	2.015	3.012	4.0	20.9	8 19	22 41.61	+ 2 51.5	2.049	3.021	6.5	21.1
8 29	22 34.59	-13 35.1	1.995	3.003	1.5	20.7	8 29	22 34.58	+ 1 50.3	2.024	3.021	3.7	20.9
9 8	22 26.73	-14 22.4	2.003	2.993	4.4	20.9	9 8	22 27.44	+ 0 39.2	2.026	3.020	3.9	20.9
9 18	22 19.55	-15 0.9	2.039	2.984	8.0	21.1	9 18	22 20.94	- 0 36.0	2.057	3.019	6.7	21.1
9 28	22 13.79	-15 27.3	2.100	2.974	11.3	21.3	9 28	22 15.77	- 1 49.2	2.114	3.018	9.8	21.3
10 8	22 10.00	-15 39.8	2.182	2.964	14.1	21.5	10 8	22 12.43	- 2 54.8	2.194	3.016	12.7	21.5
<b>415532</b>	2014 <i>QA</i> <sub>94</sub>		8 29.9	288°53'	3°5'/	2.8 18	<b>418905</b>	2009 <					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>515574</b>	2014 HA <sub>136</sub>		8 29.9 244°54'	2°6/27.5	18		<b>355082</b>	2006 SF <sub>342</sub>		8 29.9 270°60'	0°4/30.3	18	
7 30	22 55.95	-14 35.6	1.939	2.843	11.3	21.8	7 30	22 55.66	-6 26.4	1.995	2.881	11.9	21.2
8 9	22 50.35	-15 19.8	1.878	2.841	7.9	21.6	8 9	22 50.13	-6 43.3	1.924	2.876	8.5	21.0
8 19	22 43.03	-16 7.2	1.841	2.838	4.4	21.4	8 19	22 42.95	-7 9.4	1.876	2.870	4.7	20.8
8 29	22 34.71	-16 52.1	1.832	2.836	2.7	21.3	8 29	22 34.76	-7 41.2	1.856	2.865	0.7	20.5
9 8	22 26.32	-17 28.8	1.850	2.834	5.4	21.4	9 8	22 26.45	-8 14.1	1.863	2.860	3.6	20.7
9 18	22 18.76	-17 53.0	1.894	2.831	9.0	21.7	9 18	22 18.88	-8 43.5	1.897	2.854	7.6	20.9
9 28	22 12.85	-18 2.5	1.962	2.829	12.3	21.9	9 28	22 12.84	-9 5.8	1.957	2.849	11.1	21.1
10 8	22 9.11	-17 56.9	2.052	2.826	15.1	22.1	10 8	22 8.89	-9 18.1	2.039	2.844	14.1	21.3
<b>424541</b>	2008 EY <sub>138</sub>		8 29.9 154°25'	0°0/29.9	17		<b>110478</b>	2001 TT <sub>57</sub>		8 29.9 196°13'	0°5/29.5	18	
7 30	22 59.89	-7 20.9	1.766	2.653	13.1	21.5	7 30	22 57.94	-8 21.9	1.886	2.776	12.3	20.0
8 9	22 53.16	-7 43.8	1.707	2.660	9.3	21.3	8 9	22 51.81	-8 54.9	1.818	2.774	8.7	19.8
8 19	22 44.54	-8 16.0	1.671	2.666	5.0	21.1	8 19	22 43.86	-9 36.5	1.775	2.771	4.6	19.6
8 29	22 34.84	-8 52.9	1.662	2.671	0.4	20.7	8 29	22 34.84	-10 22.0	1.759	2.769	0.5	19.2
9 8	22 25.11	-9 29.1	1.680	2.676	4.1	21.0	9 8	22 25.71	-11 5.6	1.771	2.765	4.2	19.5
9 18	22 16.37	-9 59.6	1.726	2.681	8.4	21.3	9 18	22 17.40	-11 42.3	1.810	2.762	8.3	19.8
9 28	22 9.50	-10 20.7	1.798	2.685	12.2	21.5	9 28	22 10.81	-12 8.3	1.874	2.758	11.9	20.0
10 8	22 5.05	-10 30.0	1.890	2.688	15.3	21.8	10 8	22 6.47	-12 21.4	1.960	2.753	15.0	20.2
<b>310105</b>	2010 UW <sub>35</sub>		8 29.9 232°35'	0°5/29.1	17		<b>156202</b>	2001 UJ <sub>41</sub>		8 29.9 283°56'	0°3/29.7	18	
7 30	22 47.24	-9 58.1	4.335	5.220	6.0	21.4	7 30	22 55.52	-6 58.6	1.598	2.496	13.6	21.3
8 9	22 43.54	-10 26.7	4.265	5.219	4.2	21.3	8 9	22 50.51	-7 42.8	1.518	2.477	9.8	21.0
8 19	22 39.15	-10 58.5	4.221	5.218	2.2	21.2	8 19	22 43.36	-8 40.6	1.461	2.458	5.3	20.7
8 29	22 34.39	-11 31.2	4.207	5.216	0.5	21.0	8 29	22 34.81	-9 46.1	1.429	2.439	0.5	20.3
9 8	22 29.58	-12 2.8	4.223	5.215	2.1	21.2	9 8	22 25.91	-10 52.0	1.424	2.420	4.7	20.6
9 18	22 25.08	-12 31.1	4.268	5.214	4.1	21.3	9 18	22 17.80	-11 50.9	1.444	2.401	9.5	20.8
9 28	22 21.21	-12 54.4	4.341	5.212	6.0	21.4	9 28	22 11.54	-12 36.5	1.488	2.381	13.9	21.0
10 8	22 18.23	-13 11.5	4.439	5.211	7.6	21.6	10 8	22 7.87	-13 5.3	1.552	2.362	17.6	21.2
<b>374854</b>	2006 VV <sub>5</sub>		8 29.9 326°41'	2°4/28.4	18		<b>354211</b>	2002 FB <sub>41</sub>		8 29.9 88°56'	7°5/20.9	18	
7 30	22 54.06	-11 27.3	1.120	2.044	16.0	20.8	7 30	22 56.92	-32 17.9	2.290	3.182	10.3	20.2
8 9	22 50.07	-12 10.1	1.052	2.025	11.3	20.4	8 9	22 50.85	-33 39.6	2.267	3.199	8.5	20.1
8 19	22 43.34	-13 4.5	1.005	2.006	6.1	20.1	8 19	22 43.22	-34 49.7	2.269	3.217	7.6	20.1
8 29	22 34.77	-14 2.0	0.980	1.988	2.4	19.8	8 29	22 34.78	-35 41.6	2.297	3.234	8.0	20.1
9 8	22 25.80	-14 52.7	0.978	1.971	6.9	20.0	9 8	22 26.44	-36 11.4	2.351	3.250	9.4	20.2
9 18	22 17.98	-15 27.9	0.997	1.955	12.5	20.3	9 18	22 19.05	-36 17.9	2.428	3.267	11.3	20.4
9 28	22 12.68	-15 42.2	1.037	1.941	17.6	20.5	9 28	22 13.34	-36 2.2	2.527	3.284	13.1	20.6
10 8	22 10.72	-15 33.9	1.093	1.927	21.9	20.8	10 8	22 9.72	-35 27.5	2.644	3.300	14.7	20.7
<b>425786</b>	2011 CW <sub>74</sub>		8 29.9 224°95'	2°0/28.3	17		<b>449839</b>	2014 QC <sub>341</sub>		8 29.9 274°72'	1°2/31.3	17	
7 30	22 58.29	-11 58.6	1.779	2.678	12.4	21.6	7 30	22 53.01	-3 19.2	2.418	3.290	10.6	21.8
8 9	22 52.19	-12 45.4	1.710	2.670	8.7	21.4	8 9	22 48.08	-3 36.6	2.337	3.280	7.7	21.6
8 19	22 44.13	-13 38.7	1.665	2.662	4.6	21.1	8 19	22 41.79	-4 4.1	2.280	3.269	4.5	21.4
8 29	22 34.85	-14 32.4	1.646	2.654	2.0	20.9	8 29	22 34.67	-4 38.9	2.251	3.259	1.5	21.1
9 8	22 25.39	-15 19.8	1.656	2.645	5.3	21.1	9 8	22 27.39	-5 17.5	2.251	3.248	3.0	21.2
9 18	22 16.80	-15 55.6	1.692	2.635	9.4	21.4	9 18	22 20.67	-5 55.6	2.278	3.237	6.3	21.4
9 28	22 10.02	-16 16.2	1.752	2.625	13.2	21.6	9 28	22 15.15	-6 29.5	2.332	3.226	9.5	21.6
10 8	22 5.68	-16 20.7	1.832	2.615	16.3	21.8	10 8	22 11.33	-6 56.1	2.410	3.216	12.2	21.8
<b>346395</b>	2008 SE <sub>101</sub>		8 29.9 18°43'	1°1/29.1	16		<b>212</b>	Medea		8 29.9 291°08'	0°9/30.8	18	
7 30	22 52.42	-7 56.7	1.218	2.134	15.6	20.5	7 30	22 54.05	-4 55.2	2.181	3.061	11.2	13.1
8 9	22 48.43	-8 56.5	1.172	2.140	10.9	20.3	8 9	22 48.93	-5 10.2	2.103	3.051	8.1	12.9
8 19	22 42.19	-10 9.9	1.147	2.147	5.7	20.0	8 19	22 42.28	-5 34.9	2.049	3.041	4.6	12.7
8 29	22 34.67	-11 28.4	1.145	2.154	1.1	19.7	8 29	22 34.71	-6 6.3	2.023	3.031	1.1	12.4
9 8	22 27.15	-12 41.8	1.168	2.163	5.6	20.1	9 8	22 26.99	-6 40.4	2.024	3.021	3.3	12.5
9 18	22 20.84	-13 41.8	1.214	2.173	10.6	20.4	9 18	22 19.89	-7 12.8	2.053	3.012	7.0	12.8
9 28	22 16.76	-14 22.5	1.282	2.184	15.0	20.7	9 28	22 14.15	-7 39.7	2.108	3.002	10.3	12.9
10 8	22 15.45	-14 42.0	1.368	2.195	18.6	20.9	10 8	22 10.31	-7 58.2	2.186	2.992	13.2	13.1
<b>490005</b>	2008 SL <sub>218</sub>		8 29.9 353°68'	3°1/31.2	18		<b>93764</b>	2000 WC <sub>20</sub>		8 29.9 93°87'	4°5/3.6	18	
7 30	22 51.41	-6 23.5	0.852	1.782	18.9	18.8	7 30	22 54.20	+6 7.4	2.241	3.074	12.7	19.7
8 9	22 48.53	-5 16.5	0.795	1.767	14.0	18.4	8 9	22 48.96	+6 16.1	2.169	3.076	10.0	19.6
8 19	22 42.61	-4 21.3	0.757	1.754	8.4	18.1	8 19	22 42.26	+6 8.5	2.119	3.079	7.2	19.4
8 29	22 34.73	-3 37.6	0.737	1.745	3.4	17.8	8 29	22 34.71	+5 45.5	2.096	3.082	4.9	19.3
9 8	22 26.55	-3 3.2	0.738	1.738	6.0	17.9	9 8	22 27.06	+5 10.1	2.099	3.084	4.8	19.3
9 18	22 19.81	-2 34.7	0.758	1.735	11.8	18.2	9 18	22 20.05	+4 26.4	2.130	3.087	6.9	19.4
9 28	22 15.98	-2 7.3	0.796	1.734	17.3	18.5	9 28	22 14.39	+3 39.6	2.188	3.090	9.6	19.6
10 8	22 15.84	-1 36.3	0.851	1.737	21.9	18.8	10 8	22 10.57	+2 54.8	2.268	3.092	12.2	19.8
<b>514285</b>	2015 RF <sub>255</sub>		8 29.9 323°45'	0°9/28.9	18		<b>194892</b>	2002 AP <sub>90</sub>		8 29.9 150°52'	0°6/30.5	17	
7 30	22 51.43	-8 28.6	2.164	3.059	10.7	21.1	7 30	22 57.72	-5 30.3	1.917	2.799	12.5	20.8
8 9	22 47.06	-9 29.5	2.096	3.055	7.5	20.9	8 9	22 51.56	-5 52.9	1.855	2.805	8.9	20.6
8 19	22 41.26	-10 39.0	2.053	3.051	3.9	20.6	8 19	22 43.69	-6 25.9	1.817	2.810	4.9	20.4
8 29	22 34.60	-11 52.1	2.038	3.047	0.9	20.4	8 29	22 34.84	-7 5.2	1.806	2.815	0.9	20.1
9 8	22 27.84	-13 2.5	2.051	3.044	4.0	20.6	9 8	22 25.95	-7 45.7	1.823	2.820	3.7	20.3
9 18	22 21.70	-14 4.8	2.092	3.040	7.5	20.9	9 18	22 17.91	-8 22.6	1.868	2.825	7.7	20.6
9 28	22 16.91	-14 54.7	2.158	3.037	10.8	21.1	9 28	22 11.55	-8 51.7	1.938	2.829	11.3	20.8
10 8	22 13.93	-15 29.9	2.246	3.034	13.5	21.2	10 8	22 7.37	-9 10.3	2.030	2.832	14.3	21.0
<b>322628</b>	1997 LY <sub>5</sub>		8 29.9 77°32'	5°2/3.9	17		<b>399934</b>	2005 YY <sub>178</sub>		8 29.9 327°98'	2°5/1.3	18	

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>287615</b>	2003 <i>HK</i>	8 29.9 81°29' 3.3"/27.7 17											
7 30	23 1.75	-13 29.5	1.260	2.171	15.5	20.5	7 30	23 1.33	-7 37.2	1.401	2.297	15.3	19.2
8 9	22 54.76	-14 32.8	1.229	2.196	10.7	20.3	8 9	22 54.64	-7 5.1	1.338	2.295	11.0	18.9
8 19	22 45.45	-15 40.3	1.222	2.220	5.8	20.1	8 19	22 45.56	-6 41.3	1.298	2.293	6.2	18.6
8 29	22 35.00	-16 42.6	1.238	2.244	3.3	20.0	8 29	22 35.06	-6 23.5	1.283	2.292	1.4	18.3
9 8	22 24.86	-17 30.9	1.281	2.267	6.9	20.3	9 8	22 24.46	-6 8.3	1.293	2.291	4.6	18.6
9 18	22 16.31	-18 0.4	1.347	2.290	11.3	20.6	9 18	22 15.06	-5 52.7	1.329	2.291	9.5	18.8
9 28	22 10.33	-18 9.2	1.436	2.313	15.3	20.9	9 28	22 7.98	-5 33.5	1.388	2.292	13.9	19.1
10 8	22 7.34	-17 58.7	1.543	2.335	18.4	21.2	10 8	22 3.86	-5 8.6	1.468	2.293	17.6	19.4
<b>24813</b>	1994 <i>VL<sub>1</sub></i>	8 29.9 354°61' 10 <sup>5</sup> /21.7 18											
7 30	22 54.72	-29 36.5	1.213	2.137	15.0	17.1	7 30	22 56.87	-7 21.3	1.868	2.758	12.4	21.4
8 9	22 50.39	-31 5.3	1.174	2.130	12.2	16.9	8 9	22 50.93	-7 54.1	1.818	2.772	8.7	21.2
8 19	22 43.38	-32 20.9	1.155	2.125	10.6	16.8	8 19	22 43.34	-8 35.9	1.791	2.786	4.6	21.0
8 29	22 34.83	-33 11.0	1.158	2.121	11.1	16.8	8 29	22 34.86	-9 21.7	1.791	2.801	0.4	20.7
9 8	22 26.27	-33 27.5	1.181	2.118	13.5	17.0	9 8	22 26.41	-10 5.9	1.819	2.814	3.9	21.0
9 18	22 19.18	-33 8.0	1.225	2.117	16.5	17.2	9 18	22 18.90	-10 43.8	1.874	2.828	7.8	21.3
9 28	22 14.74	-32 15.4	1.287	2.117	19.6	17.4	9 28	22 13.08	-11 11.6	1.954	2.841	11.3	21.5
10 8	22 13.48	-30 55.6	1.364	2.119	22.2	17.6	10 8	22 9.43	-11 27.2	2.056	2.854	14.2	21.7
<b>48008</b>	2001 <i>BX<sub>67</sub></i>	8 29.9 84°88' 1 <sup>5</sup> /28.9 18											
7 30	23 0.95	-10 53.4	1.427	2.330	14.6	19.1	7 30	22 59.60	-9 20.3	1.701	2.595	13.2	20.1
8 9	22 54.08	-11 27.6	1.387	2.349	10.2	18.9	8 9	22 53.26	-9 14.5	1.623	2.580	9.4	19.8
8 19	22 45.07	-12 8.8	1.370	2.368	5.3	18.7	8 19	22 44.80	-9 15.4	1.569	2.566	5.1	19.5
8 29	22 34.97	-12 50.1	1.378	2.387	1.5	18.5	8 29	22 35.00	-9 19.3	1.541	2.551	0.4	19.2
9 8	22 25.06	-13 24.7	1.413	2.405	5.3	18.8	9 8	22 24.96	-9 22.3	1.541	2.537	4.3	19.4
9 18	22 16.51	-13 47.8	1.473	2.424	9.9	19.1	9 18	22 15.79	-9 20.6	1.567	2.523	8.9	19.7
9 28	22 10.24	-13 56.5	1.556	2.442	13.8	19.4	9 28	22 8.52	-9 11.4	1.617	2.509	13.0	19.9
10 8	22 6.75	-13 50.4	1.659	2.459	17.0	19.7	10 8	22 3.82	-8 53.0	1.688	2.496	16.5	20.1
<b>227204</b>	2005 <i>QZ<sub>119</sub></i>	8 29.9 307°72' 0°/29.8 18											
7 30	22 55.96	-7 3.6	1.372	2.276	15.0	21.3	7 30	22 56.74	-4 2.1	1.874	2.754	12.8	21.2
8 9	22 51.06	-7 28.9	1.297	2.259	10.8	21.0	8 9	22 51.08	-4 20.8	1.794	2.741	9.3	21.0
8 19	22 43.77	-8 7.7	1.244	2.242	5.9	20.7	8 19	22 43.58	-4 51.8	1.738	2.729	5.4	20.7
8 29	22 34.89	-8 54.8	1.215	2.225	0.5	20.3	8 29	22 34.90	-5 31.7	1.708	2.716	1.5	20.4
9 8	22 25.65	-9 42.8	1.211	2.209	5.0	20.6	9 8	22 25.97	-6 15.6	1.705	2.703	3.8	20.6
9 18	22 17.37	-10 24.5	1.232	2.193	10.2	20.8	9 18	22 17.78	-6 57.9	1.730	2.689	8.0	20.8
9 28	22 11.23	-10 53.9	1.275	2.178	15.0	21.1	9 28	22 11.21	-7 33.8	1.780	2.676	11.8	21.0
10 8	22 8.01	-11 7.3	1.336	2.163	19.0	21.3	10 8	22 6.90	-7 59.4	1.852	2.662	15.1	21.2
<b>277940</b>	2006 <i>PK<sub>28</sub></i>	8 29.9 342°65' 20°/ 5.8 16											
7 30	22 57.38	-45 44.8	0.934	1.834	20.7	19.3	7 30	22 54.20	-14 5.0	2.350	3.249	9.8	20.6
8 9	22 53.80	-49 33.3	0.926	1.828	20.5	19.3	8 9	22 48.86	-14 51.7	2.297	3.257	6.8	20.4
8 19	22 45.84	-52 37.5	0.936	1.823	21.4	19.3	8 19	22 42.18	-15 41.0	2.269	3.265	3.7	20.2
8 29	22 35.07	-54 38.9	0.961	1.819	23.2	19.4	8 29	22 34.76	-16 28.2	2.268	3.273	2.2	20.1
9 8	22 24.11	-55 30.4	1.000	1.816	25.4	19.6	9 8	22 27.33	-17 8.6	2.297	3.280	4.5	20.3
9 18	22 15.59	-55 15.6	1.050	1.813	27.4	19.7	9 18	22 20.60	-17 38.7	2.353	3.288	7.6	20.5
9 28	22 11.37	-54 4.9	1.109	1.811	29.2	19.9	9 28	22 15.22	-17 56.3	2.434	3.295	10.4	20.7
10 8	22 11.96	-52 11.0	1.175	1.810	30.7	20.1	10 8	22 11.60	-18 0.7	2.537	3.302	12.7	20.9
<b>476031</b>	2007 <i>RB<sub>235</sub></i>	8 29.9 235°79' 2 <sup>5</sup> /27.9 18											
7 30	23 1.25	-16 6.4	2.089	2.983	11.1	21.8	7 30	22 55.01	+6 7.4	1.544	2.398	16.4	20.4
8 9	22 54.07	-16 21.9	2.015	2.973	7.8	21.5	8 9	22 50.15	+5 52.3	1.469	2.391	12.9	20.2
8 19	22 45.07	-16 38.0	1.968	2.963	4.4	21.3	8 19	22 43.18	+5 12.2	1.414	2.383	9.1	19.9
8 29	22 35.00	-16 50.1	1.948	2.952	2.6	21.2	8 29	22 34.87	+4 8.8	1.382	2.376	5.7	19.7
9 8	22 24.81	-16 54.0	1.957	2.941	5.1	21.3	9 8	22 26.28	+2 47.8	1.376	2.368	5.6	19.7
9 18	22 15.45	-16 47.0	1.994	2.930	8.7	21.5	9 18	22 18.55	+1 17.6	1.395	2.360	8.9	19.9
9 28	22 7.77	-16 27.9	2.056	2.918	12.0	21.7	9 28	22 12.72	+0 12.1	1.439	2.352	12.9	20.1
10 8	22 2.36	-15 57.1	2.140	2.906	14.8	21.9	10 8	22 9.47	-1 33.0	1.504	2.344	16.5	20.3
<b>79905</b>	1999 <i>BH<sub>20</sub></i>	8 29.9 345°67' 9°/23.1 18											
7 30	22 59.16	-29 44.0	1.489	2.399	13.7	18.1	7 30	23 2.27	-23 0.3	2.005	2.903	11.3	21.3
8 9	22 53.17	-30 43.4	1.442	2.392	11.0	17.9	8 9	22 54.81	-23 37.9	1.947	2.900	8.3	21.1
8 19	22 44.75	-31 30.6	1.417	2.386	9.2	17.8	8 19	22 45.47	-24 10.7	1.913	2.897	5.8	21.0
8 29	22 34.97	-31 56.2	1.416	2.380	9.4	17.8	8 29	22 35.06	-24 32.4	1.907	2.894	5.3	20.9
9 8	22 25.21	-31 54.1	1.438	2.375	11.5	17.9	9 8	22 24.64	-24 38.2	1.929	2.890	7.3	21.1
9 18	22 16.80	-31 22.9	1.482	2.371	14.3	18.0	9 18	22 15.24	-24 26.2	1.977	2.886	10.3	21.2
9 28	22 10.80	-30 24.9	1.547	2.368	17.2	18.2	9 28	22 7.71	-23 56.5	2.049	2.881	13.2	21.4
10 8	22 7.79	-29 5.1	1.628	2.366	19.8	18.4	10 8	22 2.60	-23 11.2	2.142	2.876	15.7	21.6
<b>339320</b>	2004 <i>XS<sub>115</sub></i>	8 29.9 316°67' 4°/26.1 18											
7 30	22 55.57	-17 40.9	1.528	2.445	13.0	20.0	7 30	22 58.28	-4 13.9	1.250	2.149	16.6	20.4
8 9	22 50.57	-18 46.9	1.467	2.434	9.2	19.8	8 9	22 52.39	-4 13.4	1.211	2.167	12.0	20.2
8 19	22 43.39	-19 55.1	1.429	2.424	5.7	19.6	8 19	22 44.25	-4 28.2	1.192	2.185	6.9	20.0
8 29	22 34.87	-20 56.9	1.416	2.414	4.8	19.5	8 29	22 34.95	-4 53.6	1.197	2.205	2.1	19.8
9 8	22 26.17	-21 44.2	1.428	2.404	7.8	19.6	9 8	22 25.81	-5 23.6	1.226	2.225	4.6	20.0
9 18	22 18.48	-22 11.3	1.465	2.395	11.7	19.8	9 18	22 18.07	-5 51.7	1.280	2.245	9.4	20.3
9 28	22 12.82	-22 16.1	1.523	2.386	15.4	20.0	9 28	22 12.71	-6 12.6	1.356	2.266	13.7	20.6
10 8	22 9.84	-21 59.2	1.600	2.377	18.5	20.3	10 8	22 10.20	-6 22.8	1.452	2.288	17.3	20.9
<b>357223</b>	2002 <i>JV<sub>7</sub></i>	8 29.9 98°33' 7°/21.3 18											
7 30	22 56.12	-30 46.2	2.346	3.241	10.0	20.8	7 30	22 57.69	-10 2.4	1.528	2.431	13.8	20.2
8 9	22 50.30	-32 8.2	2.318	3.255	8.1	20.7	8 9	22 52.15	-10 37.3	1.452	2.414	9.8	20.0
8 19	22 42.96	-33 20.2	2.314	3.268	7.1	20.6	8 19	22 44.32	-11 21.9	1.397	2.396	5.2	19.7
8 29	22 34.82	-34 15.9	2.338	3.281	7.4	20.7	8 29	22 34.98	-12 10.2	1.368	2.378	1.3	19.3
9 8	22 26.73	-34 50.8	2.387	3.294	8.9	20.8	9 8	22 25.30	-12				

EPHEMERIDES

8 29.9

8 29.9

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>471259</b>	2011 CX <sub>66</sub>		8 29.9 154°38'	0°1/30.0	17		<b>395025</b>	2009 CG <sub>41</sub>		8 29.9 241°46'	0°3/29.7	18	
7 30	22 57.29	- 5 59.6	1.835	2.721	12.7	22.0	7 30	22 55.39	- 7 32.7	2.031	2.919	11.6	22.0
8 9	22 51.34	- 6 44.2	1.775	2.728	9.0	21.8	8 9	22 50.01	- 8 11.9	1.955	2.910	8.2	21.7
8 19	22 43.63	- 7 40.1	1.739	2.734	4.9	21.6	8 19	22 42.97	- 9 0.5	1.904	2.900	4.4	21.5
8 29	22 34.90	- 8 41.9	1.729	2.739	0.5	21.3	8 29	22 34.89	- 9 54.1	1.880	2.890	0.4	21.2
9 8	22 26.12	- 9 43.2	1.748	2.744	4.0	21.6	9 8	22 26.63	-10 46.9	1.884	2.880	3.9	21.4
9 18	22 18.22	-10 38.1	1.794	2.748	8.1	21.8	9 18	22 19.06	-11 33.7	1.916	2.869	7.8	21.7
9 28	22 12.03	-11 21.7	1.865	2.752	11.8	22.1	9 28	22 12.99	-12 10.3	1.973	2.858	11.4	21.9
10 8	22 8.10	-11 51.4	1.958	2.756	14.9	22.3	10 8	22 8.97	-12 34.0	2.052	2.847	14.4	22.0
<b>78970</b>	2003 SB <sub>298</sub>		8 29.9 217°11'	5°4/5.9	18		<b>74885</b>	1999 TY <sub>110</sub>		8 29.9 19°45'	4°8/1.9	18	R
7 30	22 52.17	+12 22.0	2.713	3.502	11.9	19.9	7 30	22 57.22	+ 1 10.1	1.129	2.018	18.7	18.3
8 9	22 47.42	+12 21.9	2.627	3.498	9.8	19.8	8 9	22 52.06	+ 1 36.9	1.077	2.022	14.3	18.1
8 19	22 41.44	+12 4.1	2.564	3.493	7.7	19.6	8 19	22 44.30	+ 1 41.1	1.044	2.027	9.4	17.9
8 29	22 34.72	+11 29.2	2.526	3.488	5.9	19.5	8 29	22 35.01	+ 1 24.4	1.033	2.033	5.4	17.6
9 8	22 27.85	+10 39.3	2.514	3.483	5.4	19.5	9 8	22 25.64	+ 0 52.0	1.044	2.040	6.0	17.7
9 18	22 21.47	+ 9 38.2	2.531	3.477	6.6	19.5	9 18	22 17.61	+ 0 11.5	1.079	2.048	10.3	18.0
9 28	22 16.17	+ 8 30.9	2.575	3.471	8.6	19.6	9 28	22 12.13	- 0 28.5	1.135	2.056	14.8	18.3
10 8	22 12.41	+ 7 22.8	2.643	3.465	10.8	19.8	10 8	22 9.83	- 1 1.0	1.210	2.065	18.8	18.5
<b>92311</b>	2000 FQ <sub>45</sub>		8 29.9 85°28'	2°0/28.5	18		<b>476867</b>	2008 VD <sub>5</sub>		8 29.9 317°57'	3°9/26.9	18	
7 30	22 58.94	- 9 35.1	1.243	2.153	15.8	19.2	7 30	22 54.76	-15 10.2	1.404	2.323	13.7	20.7
8 9	22 52.94	-10 48.4	1.205	2.171	11.0	19.0	8 9	22 50.23	-16 10.7	1.335	2.304	9.7	20.4
8 19	22 44.59	-12 12.3	1.189	2.188	5.7	18.7	8 19	22 43.34	-17 17.4	1.287	2.285	5.6	20.1
8 29	22 34.99	-13 36.8	1.197	2.205	2.0	18.5	8 29	22 34.93	-18 21.5	1.264	2.267	4.0	20.0
9 8	22 25.53	-14 51.5	1.230	2.222	6.1	18.9	9 8	22 26.20	-19 13.9	1.266	2.250	7.4	20.1
9 18	22 17.50	-15 49.0	1.288	2.239	11.0	19.2	9 18	22 18.44	-19 47.9	1.292	2.233	11.9	20.3
9 28	22 11.92	-16 25.0	1.368	2.255	15.2	19.5	9 28	22 12.81	-19 59.6	1.339	2.217	16.1	20.5
10 8	22 9.30	-16 39.1	1.467	2.271	18.7	19.8	10 8	22 10.04	-19 48.7	1.403	2.201	19.7	20.7
<b>69392</b>	1995 FV <sub>7</sub>		8 29.9 48°60'	6°4/25.9	17		<b>116573</b>	2004 BZ <sub>88</sub>		8 29.9 297°82'	2°1/31.7	18	
7 30	23 1.10	-21 3.4	1.213	2.133	15.3	19.0	7 30	22 54.38	- 1 5.6	1.369	2.259	16.0	19.7
8 9	22 54.64	-22 0.5	1.175	2.141	11.1	18.8	8 9	22 50.03	- 1 39.5	1.288	2.238	11.9	19.4
8 19	22 45.56	-22 53.3	1.158	2.149	7.4	18.6	8 19	22 43.30	- 2 35.5	1.227	2.218	7.2	19.1
8 29	22 35.08	-23 31.6	1.164	2.158	6.6	18.6	8 29	22 34.94	- 3 49.3	1.190	2.197	2.6	18.8
9 8	22 24.77	-23 47.9	1.195	2.167	9.5	18.8	9 8	22 26.12	- 5 13.2	1.177	2.176	4.7	18.8
9 18	22 16.08	-23 39.1	1.248	2.176	13.4	19.0	9 18	22 18.14	- 6 37.5	1.190	2.156	9.9	19.1
9 28	22 10.10	-23 6.4	1.322	2.186	17.2	19.3	9 28	22 12.22	- 7 52.6	1.225	2.136	14.8	19.3
10 8	22 7.35	-22 13.5	1.413	2.196	20.3	19.6	10 8	22 9.20	- 8 51.5	1.280	2.117	19.1	19.5
<b>43508</b>	2001 CV <sub>40</sub>		8 29.9 69°02'	7°0/21.5	18		<b>52949</b>	1998 SK <sub>145</sub>		8 29.9 354°30'	1°2/30.8	18	
7 30	22 54.82	-29 4.0	2.196	3.098	10.3	19.2	7 30	22 49.77	- 4 33.9	0.957	1.881	18.1	18.1
8 9	22 49.54	-30 31.4	2.158	3.102	8.2	19.1	8 9	22 47.13	- 4 55.3	0.903	1.872	13.2	17.8
8 19	22 42.64	-31 50.4	2.145	3.106	7.0	19.0	8 19	22 41.80	- 5 37.6	0.867	1.865	7.5	17.5
8 29	22 34.83	-32 53.9	2.158	3.110	7.5	19.1	8 29	22 34.79	- 6 34.8	0.851	1.860	1.6	17.1
9 8	22 26.99	-33 36.5	2.197	3.114	9.1	19.2	9 8	22 27.58	- 7 36.9	0.856	1.857	5.3	17.3
9 18	22 20.00	-33 56.0	2.260	3.118	11.3	19.3	9 18	22 21.65	- 8 33.5	0.883	1.856	11.3	17.7
9 28	22 14.61	-33 52.5	2.344	3.123	13.4	19.5	9 28	22 18.31	- 9 15.7	0.929	1.856	16.6	18.0
10 8	22 11.30	-33 28.5	2.447	3.127	15.2	19.7	10 8	22 18.23	- 9 38.2	0.992	1.859	21.1	18.3
<b>335562</b>	2006 BP <sub>252</sub>		8 29.9 271°58'	1°3/30.9	18		<b>493572</b>	2015 KD <sub>127</sub>		8 29.9 59°82'	3°4/27.2	16	
7 30	22 57.50	- 4 31.9	1.715	2.599	13.6	21.3	7 30	22 58.31	-15 15.3	1.517	2.428	13.4	20.5
8 9	22 51.77	- 4 41.4	1.637	2.587	9.9	21.1	8 9	22 52.11	-16 13.8	1.489	2.454	9.3	20.3
8 19	22 44.01	- 5 3.2	1.583	2.575	5.7	20.8	8 19	22 44.00	-17 13.7	1.484	2.481	5.2	20.2
8 29	22 34.97	- 5 34.0	1.554	2.562	1.6	20.5	8 29	22 34.98	-18 7.4	1.505	2.507	3.5	20.1
9 8	22 25.67	- 6 8.7	1.552	2.550	4.0	20.7	9 8	22 26.20	-18 48.0	1.552	2.534	6.4	20.4
9 18	22 17.18	- 6 42.1	1.577	2.537	8.5	20.9	9 18	22 18.72	-19 11.6	1.624	2.561	10.2	20.6
9 28	22 10.49	- 7 9.2	1.626	2.525	12.6	21.1	9 28	22 13.34	-19 17.0	1.719	2.587	13.6	20.9
10 8	22 6.25	- 7 26.2	1.696	2.512	16.1	21.3	10 8	22 10.49	-19 5.0	1.833	2.614	16.4	21.2
<b>359850</b>	2011 UY <sub>359</sub>		8 29.9 343°27'	2°4/1.0	18		<b>23827</b>	1998 QG <sub>74</sub>		8 29.9 319°61'	4°3/3.3	18	
7 30	22 53.40	- 1 3.0	1.618	2.500	14.3	20.5	7 30	22 51.47	+ 5 16.9	1.942	2.792	13.7	18.3
8 9	22 48.87	- 1 15.9	1.548	2.494	10.7	20.3	8 9	22 47.37	+ 5 7.8	1.856	2.776	10.8	18.0
8 19	22 42.44	- 1 45.4	1.501	2.488	6.6	20.1	8 19	22 41.61	+ 4 39.3	1.792	2.760	7.6	17.8
8 29	22 34.83	- 2 28.3	1.478	2.483	2.8	19.8	8 29	22 34.79	+ 3 52.7	1.752	2.745	4.9	17.6
9 8	22 27.05	- 3 19.0	1.481	2.479	4.1	19.9	9 8	22 27.72	+ 2 52.2	1.738	2.729	4.8	17.6
9 18	22 20.10	- 4 11.1	1.510	2.475	8.3	20.1	9 18	22 21.26	+ 1 43.4	1.751	2.715	7.5	17.7
9 28	22 14.93	- 4 58.2	1.562	2.472	12.3	20.4	9 28	22 16.23	+ 0 33.3	1.789	2.701	10.9	17.9
10 8	22 12.14	- 5 35.2	1.636	2.469	15.8	20.6	10 8	22 13.23	- 0 31.7	1.850	2.687	14.1	18.1
<b>424397</b>	2007 YM <sub>67</sub>		8 29.9 228°02'	0°1/29.9	17		<b>44259</b>	1998 QW <sub>48</sub>		8 29.9 75°29'	0°9/30.9	18	
7 30	23 0.19	- 7 50.6	1.589	2.482	14.0	22.2	7 30	22 53.68	- 2 10.2	1.723	2.605	13.6	17.6
8 9	22 53.75	- 8 9.4	1.519	2.475	10.0	21.9	8 9	22 48.84	- 3 19.5	1.671	2.620	9.8	17.4
8 19	22 45.10	- 8 38.3	1.473	2.469	5.4	21.6	8 19	22 42.31	- 4 44.6	1.643	2.635	5.5	17.2
8 29	22 35.08	- 9 12.6	1.452	2.461	0.5	21.3	8 29	22 34.85	- 6 19.1	1.642	2.650	1.2	17.0
9 8	22 24.86	- 9 46.3	1.457	2.454	4.5	21.6	9 8	22 27.39	- 7 54.7	1.667	2.665	3.8	17.2
9 18	22 15.61	-10 13.8	1.490	2.446	9.3	21.8	9 18	22 20.84	- 9 23.6	1.721	2.680	8.0	17.5
9 28	22 8.41	-10 31.0	1.546	2.437	13.5	22.1	9 28	22 15.99	-10 39.2	1.799	2.695	11.7	17.7
10 8	22 3.90	-10 35.5	1.623	2.429	17.1	22.3	10 8	22 13.31	-11 37.8	1.899	2.710	14.8	18.0
<b>375256</b>	2008 GL <sub>94</sub>		8 29.9 198°39'	6°4/6.4	17		<b>90048</b>	2002 VL <sub>16</sub>		8 29.9 135°24'	0°8/30.8	18	
7 30	22 55												

EPHEMERIDES

8 29.9

8 30.0

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>388150</b>	2005 <i>WU</i> <sub>197</sub>		8 29.9 254°56'	4.3/25.2	18		<b>349861</b>	2009 <i>DW</i> <sub>41</sub>		8 29.9 248°41'	0.6/30.6	18	
7 30	22 55.01	-20 45.9	2.260	3.165	9.9	20.9	7 30	22 53.95	-3 26.8	2.189	3.065	11.4	21.8
8 9	22 49.63	-21 44.2	2.199	3.158	7.2	20.7	8 9	22 48.99	-4 26.6	2.102	3.049	8.2	21.6
8 19	22 42.71	-22 41.0	2.164	3.151	4.9	20.6	8 19	22 42.46	-5 40.2	2.040	3.032	4.6	21.4
8 29	22 34.89	-23 30.5	2.156	3.145	4.5	20.6	8 29	22 34.92	-7 3.0	2.005	3.014	0.9	21.0
9 8	22 26.98	-24 7.4	2.175	3.138	6.5	20.7	9 8	22 27.13	-8 28.9	2.000	2.996	3.4	21.2
9 18	22 19.78	-24 28.4	2.221	3.131	9.3	20.8	9 18	22 19.89	-9 51.3	2.023	2.978	7.3	21.4
9 28	22 14.02	-24 32.1	2.291	3.124	12.0	21.0	9 28	22 13.98	-11 4.4	2.072	2.959	10.8	21.6
10 8	22 10.21	-24 19.1	2.380	3.116	14.3	21.2	10 8	22 9.96	-12 4.1	2.145	2.940	13.8	21.8
<b>181417</b>	2006 <i>SO</i> <sub>214</sub>		8 29.9 267°87'	1.2/29.2	18		<b>516479</b>	2005 <i>UX</i> <sub>31</sub>		8 29.9 164°08'	4.8/5.3	18	
7 30	23 0.86	-10 59.9	1.492	2.394	14.2	20.8	7 30	22 52.77	+10 41.2	2.669	3.469	11.8	21.7
8 9	22 54.36	-11 13.7	1.424	2.385	10.1	20.5	8 9	22 47.84	+10 29.4	2.591	3.473	9.6	21.6
8 19	22 45.49	-11 34.4	1.378	2.376	5.4	20.2	8 19	22 41.70	+10 0.3	2.537	3.476	7.3	21.5
8 29	22 35.16	-11 56.7	1.358	2.367	1.2	19.9	8 29	22 34.85	+9 14.9	2.508	3.480	5.3	21.3
9 8	22 24.61	-12 14.7	1.364	2.358	5.2	20.2	9 8	22 27.90	+8 16.2	2.506	3.482	4.9	21.3
9 18	22 15.14	-12 23.6	1.395	2.349	10.1	20.4	9 18	22 21.50	+7 8.4	2.534	3.485	6.2	21.4
9 28	22 7.86	-12 20.3	1.450	2.339	14.4	20.7	9 28	22 16.21	+5 56.7	2.588	3.487	8.4	21.6
10 8	22 3.46	-12 3.8	1.524	2.330	18.0	20.9	10 8	22 12.46	+4 46.6	2.668	3.489	10.7	21.7
<b>95312</b>	2002 <i>CD</i> <sub>103</sub>		8 29.9 202°89'	1.3/28.4	18		<b>392206</b>	2009 <i>SR</i> <sub>301</sub>		8 29.9 289°65'	0.7/31.4	17	
7 30	22 52.75	-10 2.5	2.348	3.241	10.0	19.9	7 30	22 46.92	-3 22.6	4.313	5.177	6.5	21.5
8 9	22 47.96	-11 4.6	2.281	3.239	7.0	19.7	8 9	22 43.41	-3 47.3	4.230	5.169	4.7	21.4
8 19	22 41.79	-12 13.5	2.240	3.237	3.6	19.4	8 19	22 39.21	-4 17.8	4.175	5.162	2.7	21.3
8 29	22 34.82	-13 24.0	2.227	3.235	1.3	19.3	8 29	22 34.62	-4 52.3	4.148	5.155	0.9	21.1
9 8	22 27.75	-14 30.8	2.243	3.233	4.0	19.5	9 8	22 29.97	-5 28.7	4.151	5.148	1.8	21.2
9 18	22 21.28	-15 28.7	2.287	3.230	7.3	19.7	9 18	22 25.59	-6 4.9	4.183	5.141	3.8	21.3
9 28	22 16.07	-16 14.2	2.357	3.227	10.3	19.9	9 28	22 21.83	-6 38.5	4.244	5.134	5.7	21.4
10 8	22 12.60	-16 45.4	2.449	3.224	12.9	20.0	10 8	22 18.95	-7 7.8	4.330	5.126	7.3	21.6
<b>97191</b>	1999 <i>WD</i> <sub>16</sub>		8 29.9 16°91'	1.4/28.9	18		<b>351199</b>	2004 <i>DD</i> <sub>56</sub>		8 29.9 237°60'	1.5/31.3	18	
7 30	22 55.17	-10 6.7	1.472	2.381	13.9	19.3	7 30	22 57.09	-3 48.6	1.977	2.853	12.4	21.3
8 9	22 50.19	-10 48.5	1.419	2.384	9.7	19.1	8 9	22 51.21	-3 50.7	1.906	2.850	9.1	21.1
8 19	22 43.16	-11 39.2	1.388	2.387	5.1	18.8	8 19	22 43.63	-4 3.6	1.858	2.848	5.3	20.9
8 29	22 34.95	-12 32.2	1.382	2.390	1.4	18.6	8 29	22 35.04	-4 24.6	1.838	2.845	1.8	20.6
9 8	22 26.69	-13 20.0	1.401	2.395	5.2	18.9	9 8	22 26.31	-4 49.7	1.845	2.842	3.6	20.7
9 18	22 19.49	-13 56.6	1.445	2.399	9.7	19.1	9 18	22 18.36	-5 14.8	1.880	2.839	7.4	21.0
9 28	22 14.31	-14 18.0	1.513	2.404	13.8	19.4	9 28	22 11.99	-5 35.7	1.940	2.837	10.9	21.2
10 8	22 11.70	-14 22.8	1.600	2.410	17.1	19.6	10 8	22 7.74	-5 49.4	2.022	2.834	14.0	21.4
<b>448093</b>	2008 <i>JB</i> <sub>37</sub>		8 29.9 24°06'	13.7/17.9	18		<b>313958</b>	2004 <i>RT</i> <sub>255</sub>		8 30.0 11°55'	7.6/21.4	18	
7 30	22 51.83	+30 59.0	1.789	2.470	20.6	19.7	7 30	22 50.25	-23 19.8	1.500	2.426	12.5	18.9
8 9	22 47.82	+31 54.6	1.732	2.483	18.9	19.6	8 9	22 46.84	-25 42.4	1.466	2.430	9.5	18.7
8 19	22 41.90	+32 14.6	1.689	2.496	17.1	19.5	8 19	22 41.42	-28 0.3	1.456	2.436	7.7	18.6
8 29	22 34.83	+31 55.3	1.662	2.511	15.4	19.4	8 29	22 34.83	-30 0.8	1.471	2.442	8.4	18.7
9 8	22 27.65	+30 57.1	1.654	2.526	14.2	19.4	9 8	22 28.17	-31 34.1	1.511	2.449	10.9	18.8
9 18	22 21.37	+29 24.6	1.666	2.542	13.7	19.4	9 18	22 22.54	-32 35.0	1.573	2.458	13.9	19.0
9 28	22 16.93	+27 26.4	1.699	2.559	14.1	19.5	9 28	22 18.85	-33 2.8	1.655	2.467	16.7	19.2
10 8	22 14.89	+25 14.2	1.753	2.577	15.3	19.6	10 8	22 17.67	-33 0.7	1.753	2.477	19.0	19.5
<b>347516</b>	1999 <i>TT</i> <sub>30</sub>		8 29.9 346°27'	2.4/28.6	18		<b>401395</b>	2013 <i>CN</i> <sub>44</sub>		8 30.0 68°89'	0.1/29.9	18	
7 30	22 55.22	-13 21.6	1.166	2.089	15.5	19.5	7 30	22 57.75	-8 46.1	1.978	2.867	11.8	21.0
8 9	22 50.77	-13 34.4	1.105	2.076	11.0	19.2	8 9	22 51.60	-8 52.8	1.917	2.872	8.4	20.8
8 19	22 43.71	-13 52.7	1.065	2.065	5.9	18.9	8 19	22 43.79	-9 6.2	1.881	2.877	4.5	20.6
8 29	22 35.02	-14 10.0	1.047	2.055	2.4	18.6	8 29	22 35.06	-9 22.6	1.872	2.882	0.4	20.2
9 8	22 26.12	-14 19.2	1.053	2.046	6.4	18.9	9 8	22 26.31	-9 38.1	1.891	2.887	3.7	20.5
9 18	22 18.46	-14 15.2	1.081	2.039	11.6	19.1	9 18	22 18.41	-9 49.1	1.937	2.892	7.6	20.8
9 28	22 13.28	-13 55.3	1.130	2.034	16.4	19.4	9 28	22 12.14	-9 52.9	2.009	2.897	11.0	21.0
10 8	22 11.27	-13 19.3	1.196	2.030	20.3	19.6	10 8	22 8.00	-9 47.7	2.103	2.902	13.9	21.2
<b>289772</b>	2005 <i>JJ</i> <sub>92</sub>		8 29.9 42°01'	2.4/31.5	17		<b>401508</b>	2013 <i>EM</i> <sub>33</sub>		8 30.0 129°75'	3.2/26.4	18	
7 30	22 59.84	-3 24.8	1.262	2.156	16.8	20.0	7 30	22 56.76	-19 13.6	2.609	3.506	9.0	21.4
8 9	22 53.69	-3 11.8	1.211	2.164	12.3	19.7	8 9	22 50.57	-19 54.3	2.562	3.518	6.4	21.3
8 19	22 45.10	-3 14.5	1.181	2.172	7.3	19.5	8 19	22 43.12	-20 33.6	2.541	3.531	4.0	21.1
8 29	22 35.14	-3 29.8	1.174	2.181	2.8	19.2	8 29	22 35.00	-21 6.9	2.549	3.543	3.3	21.1
9 8	22 25.18	-3 52.1	1.192	2.190	4.8	19.4	9 8	22 26.92	-21 30.5	2.585	3.555	5.2	21.2
9 18	22 16.55	-4 15.4	1.234	2.199	9.7	19.7	9 18	22 19.57	-21 42.2	2.650	3.566	7.7	21.4
9 28	22 10.36	-4 34.0	1.299	2.209	14.2	20.0	9 28	22 13.54	-21 40.8	2.739	3.577	10.1	21.6
10 8	22 7.19	-4 43.6	1.383	2.220	17.9	20.3	10 8	22 9.24	-21 26.9	2.851	3.588	12.1	21.8
<b>439575</b>	2014 <i>DM</i> <sub>98</sub>		8 29.9 356°43'	0.7/30.6	18 R		<b>184572</b>	2005 <i>QE</i> <sub>91</sub>		8 30.0 316°13'	0.7/29.4	18	
7 30	22 54.70	-5 19.8	1.530	2.426	14.2	20.6	7 30	22 54.45	-9 0.4	1.892	2.789	11.9	20.2
8 9	22 49.86	-5 43.4	1.468	2.424	10.2	20.3	8 9	22 49.44	-9 33.9	1.824	2.783	8.4	20.0
8 19	22 43.01	-6 20.2	1.427	2.423	5.7	20.1	8 19	22 42.72	-10 15.7	1.779	2.776	4.4	19.8
8 29	22 34.96	-7 5.6	1.412	2.422	1.1	19.7	8 29	22 34.97	-11 1.0	1.760	2.770	0.7	19.5
9 8	22 26.78	-7 53.1	1.423	2.421	4.2	20.0	9 8	22 27.09	-11 44.2	1.769	2.764	4.2	19.7
9 18	22 19.56	-8 36.3	1.459	2.421	8.8	20.2	9 18	22 19.96	-12 20.3	1.805	2.758	8.2	20.0
9 28	22 14.26	-9 9.8	1.518	2.421	13.0	20.5	9 28	22 14.42	-12 45.4	1.865	2.753	11.8	20.2
10 8	22 11.45	-9 30.2	1.598	2.422	16.5	20.7	10 8	22 11.02	-12 57.3	1.947	2.747	14.9	20.4
<b>211295</b>	2002 <i>RR</i> <sub>216</sub>		8 29.9 310°61'	2.8/27.6	18		<b>76078</b>	2000 <i>DP</i> <sub>86</sub>		8 30.0 290°30'	3.8/26.6		