

EPHEMERIDES

4 21.9

4 22.0

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>472661</b>	2015 <i>DU</i> <sub>221</sub>		4 21.9 155°99	4.8/16.9	17		<b>457560</b>	2008 <i>YQ</i> <sub>100</sub>		4 22.0 315°34	5.7/25.7	17	
3 22	14 20.30	- 0 13.0	2.134	3.015	10.6	21.3	3 22	14 22.98	-25 41.0	1.303	2.153	17.9	20.4
4 1	14 14.87	+ 1 5.3	2.079	3.020	7.7	21.1	4 1	14 18.07	-25 57.1	1.226	2.143	14.1	20.1
4 11	14 7.97	+ 2 22.0	2.049	3.025	5.3	21.0	4 11	14 10.26	-25 48.3	1.168	2.133	9.9	19.8
4 21	14 0.27	+ 3 31.1	2.048	3.029	5.1	21.0	4 21	14 0.54	-25 13.6	1.132	2.123	6.3	19.6
5 1	13 52.59	+ 4 26.8	2.075	3.033	7.1	21.1	5 1	13 50.41	-24 16.3	1.121	2.113	6.5	19.6
5 11	13 45.71	+ 5 5.0	2.128	3.036	10.0	21.3	5 11	13 41.51	-23 4.9	1.133	2.104	10.3	19.7
5 21	13 40.23	+ 5 24.1	2.204	3.039	12.7	21.5	5 21	13 35.09	-21 50.1	1.167	2.096	14.8	20.0
5 31	13 36.58	+ 5 24.3	2.300	3.042	15.0	21.7	5 31	13 31.94	-20 42.4	1.220	2.088	18.9	20.2
<b>500951</b>	2013 <i>QS</i> <sub>27</sub>		4 21.9 331°53	1.7/20.8	17		<b>229221</b>	2004 <i>WW</i> <sub>2</sub>		4 22.0 143°50	2.0/20.2	17	
3 22	14 19.19	-11 10.9	1.251	2.146	15.4	20.5	3 22	14 21.72	- 8 19.2	2.103	2.976	11.0	21.1
4 1	14 15.14	-10 26.7	1.179	2.132	10.9	20.2	4 1	14 15.92	- 7 36.7	2.040	2.983	7.7	20.9
4 11	14 8.55	- 9 30.4	1.129	2.119	5.8	19.9	4 11	14 8.57	- 6 49.7	2.003	2.990	4.1	20.7
4 21	14 0.34	- 8 28.0	1.102	2.106	1.7	19.5	4 21	14 0.36	- 6 2.5	1.994	2.996	2.0	20.5
5 1	13 51.85	- 7 28.1	1.100	2.095	6.1	19.8	5 1	13 52.16	- 5 20.0	2.014	3.002	4.7	20.7
5 11	13 44.48	- 6 39.5	1.121	2.084	11.4	20.0	5 11	13 44.79	- 4 46.5	2.062	3.007	8.2	20.9
5 21	13 39.32	- 6 8.3	1.163	2.074	16.3	20.3	5 21	13 38.90	- 4 25.0	2.134	3.012	11.4	21.1
5 31	13 37.05	- 5 58.3	1.222	2.066	20.4	20.5	5 31	13 34.92	- 4 17.1	2.227	3.017	14.1	21.3
<b>181441</b>	2006 <i>SV</i> <sub>381</sub>		4 21.9 116°28	2.5/19.4	18		<b>463677</b>	2014 <i>OY</i> <sub>97</sub>		4 22.0 224°67	4.2/24.9	16	
3 22	14 19.50	- 5 50.9	2.413	3.288	9.7	20.9	3 22	14 26.44	-24 2.5	1.691	2.526	15.1	22.2
4 1	14 14.17	- 5 5.1	2.355	3.299	6.8	20.8	4 1	14 19.99	-24 8.8	1.606	2.518	11.7	21.9
4 11	14 7.54	- 4 17.2	2.324	3.309	3.8	20.6	4 11	14 11.08	-23 55.8	1.545	2.510	7.9	21.7
4 21	14 0.24	- 3 31.5	2.321	3.318	2.5	20.5	4 21	14 0.61	-23 23.4	1.508	2.501	4.6	21.5
5 1	13 52.96	- 2 51.9	2.347	3.328	4.7	20.7	5 1	13 49.83	-22 34.6	1.498	2.491	5.1	21.5
5 11	13 46.39	- 2 22.2	2.401	3.337	7.7	20.9	5 11	13 40.07	-21 36.1	1.515	2.481	8.8	21.7
5 21	13 41.08	- 2 4.4	2.480	3.347	10.4	21.1	5 21	13 32.37	-20 35.8	1.557	2.470	12.8	21.9
5 31	13 37.41	- 1 59.7	2.580	3.355	12.7	21.2	5 31	13 27.42	-19 41.5	1.620	2.459	16.4	22.1
<b>79065</b>	3102 <i>T</i> <sub>-3</sub>		4 21.9 202°82	1.3/20.9	17		<b>498376</b>	2007 <i>WC</i> <sub>23</sub>		4 22.0 115°82	0.8/21.2	17	
3 22	14 24.09	-10 42.3	1.940	2.809	12.0	20.7	3 22	14 21.52	-10 47.7	2.513	3.377	9.8	22.2
4 1	14 17.81	-10 2.5	1.864	2.805	8.4	20.5	4 1	14 15.55	-10 24.7	2.455	3.392	6.8	22.0
4 11	14 9.67	- 9 15.1	1.814	2.800	4.5	20.2	4 11	14 8.28	- 9 56.7	2.422	3.408	3.6	21.8
4 21	14 0.44	- 8 24.2	1.791	2.795	1.3	20.0	4 21	14 0.33	- 9 26.7	2.419	3.423	0.8	21.6
5 1	13 51.09	- 7 35.3	1.797	2.789	4.6	20.2	5 1	13 52.43	- 8 57.9	2.446	3.438	3.4	21.9
5 11	13 42.61	- 6 53.6	1.831	2.782	8.6	20.4	5 11	13 45.27	- 8 33.8	2.501	3.453	6.6	22.1
5 21	13 35.77	- 6 23.5	1.890	2.775	12.3	20.6	5 21	13 39.38	- 8 17.0	2.582	3.467	9.4	22.3
5 31	13 31.11	- 6 7.5	1.969	2.767	15.4	20.8	5 31	13 35.15	- 8 9.3	2.686	3.480	11.8	22.5
<b>431864</b>	2008 <i>SW</i> <sub>115</sub>		4 21.9 144°18	2.9/19.4	17		<b>47149</b>	1999 <i>RX</i> <sub>34</sub>		4 22.0 276°01	1.4/21.2	18	R
3 22	14 20.96	- 5 56.7	2.017	2.896	11.1	21.5	3 22	14 25.10	-11 19.9	1.339	2.222	15.4	18.1
4 1	14 15.44	- 5 6.4	1.955	2.900	7.8	21.3	4 1	14 19.43	-10 46.8	1.255	2.202	11.0	17.8
4 11	14 8.32	- 4 13.2	1.918	2.903	4.4	21.1	4 11	14 10.97	-10 1.9	1.193	2.181	5.9	17.4
4 21	14 0.32	- 3 22.1	1.909	2.907	2.9	21.0	4 21	14 0.62	- 9 10.1	1.156	2.160	1.4	17.1
5 1	13 52.31	- 2 38.4	1.928	2.910	5.5	21.2	5 1	13 49.76	- 8 18.5	1.144	2.139	5.9	17.3
5 11	13 45.14	- 2 6.5	1.974	2.913	8.9	21.4	5 11	13 39.94	- 7 35.4	1.157	2.117	11.5	17.6
5 21	13 39.46	- 1 49.1	2.044	2.916	12.1	21.6	5 21	13 32.37	- 7 7.2	1.192	2.096	16.6	17.8
5 31	13 35.74	- 1 47.1	2.135	2.918	14.8	21.8	5 31	13 27.90	- 6 58.2	1.244	2.074	20.9	18.0
<b>338345</b>	2002 <i>WM</i> <sub>24</sub>		4 22.0 246°83	2.2/26.4	17		<b>213081</b>	1999 <i>TP</i> <sub>137</sub>		4 22.0 130°18	1.6/20.5	18	
3 22	14 13.48	-26 46.3	4.638	5.436	6.8	21.1	3 22	14 22.63	-12 1.6	1.800	2.672	12.6	20.6
4 1	14 9.61	-26 23.6	4.543	5.430	5.3	21.0	4 1	14 16.71	-10 43.3	1.742	2.685	8.8	20.3
4 11	14 5.02	-25 51.9	4.475	5.424	3.7	20.9	4 11	14 9.02	- 9 15.3	1.710	2.697	4.6	20.1
4 21	14 0.02	-25 12.1	4.435	5.417	2.5	20.8	4 21	14 0.41	- 7 43.9	1.705	2.709	1.6	19.9
5 1	13 55.00	-24 26.1	4.424	5.411	2.4	20.8	5 1	13 51.87	- 6 16.8	1.730	2.720	5.0	20.2
5 11	13 50.32	-23 36.1	4.444	5.404	3.7	20.8	5 11	13 44.38	- 5 1.4	1.781	2.730	9.0	20.4
5 21	13 46.29	-22 44.7	4.492	5.398	5.3	21.0	5 21	13 38.63	- 4 2.4	1.857	2.740	12.6	20.7
5 31	13 43.18	-21 54.5	4.566	5.391	6.8	21.1	5 31	13 35.06	- 3 22.4	1.954	2.750	15.6	20.9
<b>507141</b>	2009 <i>WV</i> <sub>26</sub>		4 22.0 228°66	1.6/20.8	17		<b>216889</b>	2008 <i>YW</i> <sub>17</sub>		4 22.0 166°10	1.1/20.9	17	
3 22	14 24.34	- 8 32.3	1.977	2.848	11.7	22.1	3 22	14 20.56	-10 36.1	2.296	3.165	10.4	21.7
4 1	14 17.99	- 8 14.5	1.899	2.841	8.3	21.8	4 1	14 15.05	- 9 59.8	2.227	3.167	7.3	21.5
4 11	14 9.79	- 7 52.3	1.847	2.833	4.4	21.6	4 11	14 8.09	- 9 17.7	2.183	3.170	3.8	21.3
4 21	14 0.47	- 7 28.9	1.822	2.825	1.6	21.4	4 21	14 0.33	- 8 33.1	2.168	3.172	1.1	21.1
5 1	13 50.99	- 7 8.6	1.826	2.817	4.7	21.6	5 1	13 52.52	- 7 50.5	2.182	3.174	3.9	21.3
5 11	13 42.32	- 6 55.2	1.858	2.808	8.6	21.8	5 11	13 45.45	- 7 14.1	2.224	3.175	7.3	21.5
5 21	13 35.26	- 6 51.7	1.914	2.799	12.2	22.0	5 21	13 39.71	- 6 47.2	2.291	3.176	10.4	21.7
5 31	13 30.35	- 7 0.0	1.991	2.790	15.2	22.2	5 31	13 35.75	- 6 31.9	2.381	3.177	13.1	21.9
<b>142223</b>	2002 <i>RE</i> <sub>75</sub>		4 22.0 312°23	0.1/22.0	17		<b>360344</b>	2001 <i>UC</i> <sub>102</sub>		4 22.0 155°58	0.9/21.3	18	
3 22	14 20.94	-14 21.8	1.291	2.177	15.7	19.9	3 22	14 25.22	-12 40.5	1.732	2.601	13.2	22.1
4 1	14 16.62	-13 58.0	1.201	2.148	11.4	19.6	4 1	14 18.67	-11 52.5	1.669	2.609	9.3	21.9
4 11	14 9.53	-13 18.9	1.131	2.119	6.3	19.2	4 11	14 10.14	-10 54.4	1.630	2.616	4.9	21.7
4 21	14 0.48	-12 27.7	1.085	2.090	0.6	18.7	4 21	14 0.52	- 9 51.1	1.618	2.623	0.9	21.4
5 1	13 50.80	-11 31.1	1.064	2.062	5.3	18.9	5 1	13 50.90	- 8 48.9	1.635	2.629	4.6	21.7
5 11	13 42.03	-10 37.9	1.066	2.035	11.2	19.2	5 11	13 42.36	- 7 54.4	1.679	2.634	9.0	21.9
5 21	13 35.48	- 9 56.3	1.090	2.008	16.5	19.4	5 21	13 35.71	- 7 12.7	1.747	2.638	12.8	22.2
5 31	13 32.04	- 9 32.4	1.130	1.982	21.2	19.6	5 31	13 31.44	- 6 46.9	1.836	2.642	16.1	22.4
<b>506202</b>	2016 <i>GH</i> <sub>210</sub>		4 22.0 301°71	0.1/21.9	17		<b>274489</b>	2008 <i>SD</i> <sub>111</sub>					

EPHEMERIDES

4 22.0

4 22.0

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>18819</b>	1999 <i>NK</i> <sub>8</sub>		4 22.0 124°42'	1.7°/23.5	18		<b>154062</b>	2002 <i>CR</i> <sub>175</sub>		4 22.0 224°90'	1.6°/23.4	18	
3 22	14 22.36	-18 56.4	1.977	2.828	12.6	18.3	3 22	14 23.87	-18 30.6	2.305	3.148	11.3	20.9
4 1	14 16.55	-18 35.6	1.909	2.836	9.2	18.1	4 1	14 17.58	-18 18.5	2.214	3.136	8.3	20.7
4 11	14 8.97	-18 1.4	1.865	2.843	5.4	17.9	4 11	14 9.58	-17 54.8	2.147	3.124	5.0	20.5
4 21	14 0.42	-17 16.4	1.848	2.850	2.0	17.6	4 21	14 0.51	-17 21.1	2.109	3.111	1.8	20.2
5 1	13 51.83	-16 25.0	1.860	2.857	3.6	17.8	5 1	13 51.23	-16 40.6	2.101	3.097	3.3	20.3
5 11	13 44.17	-15 32.9	1.899	2.864	7.3	18.0	5 11	13 42.64	-15 57.9	2.121	3.083	6.9	20.5
5 21	13 38.15	-14 45.5	1.963	2.870	10.9	18.2	5 21	13 35.47	-15 17.7	2.167	3.068	10.3	20.7
5 31	13 34.25	-14 7.4	2.050	2.876	13.9	18.4	5 31	13 30.26	-14 44.4	2.237	3.052	13.3	20.8
<b>199366</b>	2006 <i>BP</i> <sub>195</sub>		4 22.0 162°05'	4.7°/26.1	17		<b>317948</b>	2003 <i>WU</i> <sub>84</sub>		4 22.0 171°41'	3.2°/19.3	18	
3 22	14 23.63	-27 5.5	2.048	2.864	13.6	20.8	3 22	14 24.55	-4 52.8	2.038	2.911	11.3	21.6
4 1	14 17.58	-27 13.1	1.971	2.867	10.7	20.6	4 1	14 17.98	-4 3.7	1.974	2.915	8.0	21.4
4 11	14 9.60	-27 2.2	1.916	2.869	7.6	20.4	4 11	14 9.72	-3 12.6	1.936	2.919	4.7	21.2
4 21	14 0.48	-26 33.1	1.888	2.871	5.1	20.3	4 21	14 0.54	-2 24.4	1.926	2.922	3.3	21.1
5 1	13 51.23	-25 48.2	1.886	2.873	5.1	20.3	5 1	13 51.33	-1 44.3	1.945	2.924	5.8	21.2
5 11	13 42.89	-24 53.0	1.912	2.874	7.5	20.4	5 11	13 43.02	-1 16.6	1.992	2.925	9.2	21.4
5 21	13 36.27	-23 54.1	1.964	2.876	10.6	20.6	5 21	13 36.28	-1 3.6	2.063	2.926	12.4	21.6
5 31	13 31.92	-22 58.1	2.038	2.877	13.5	20.8	5 31	13 31.60	-1 6.1	2.155	2.926	15.1	21.8
<b>212590</b>	2006 <i>SA</i> <sub>177</sub>		4 22.0 200°70'	0.2°/22.2	17		<b>139732</b>	2001 <i>QQ</i> <sub>256</sub>		4 22.0 141°48'	2.0°/20.2	18	
3 22	14 20.56	-14 25.2	2.579	3.435	9.8	21.5	3 22	14 23.42	-7 59.7	2.166	3.036	10.9	19.9
4 1	14 14.99	-14 5.2	2.499	3.432	7.0	21.3	4 1	14 17.06	-7 17.3	2.107	3.049	7.6	19.7
4 11	14 8.06	-13 37.6	2.446	3.429	3.8	21.1	4 11	14 9.17	-6 30.9	2.074	3.060	4.1	19.5
4 21	14 0.34	-13 4.7	2.421	3.425	0.5	20.8	4 21	14 0.48	-5 44.7	2.070	3.071	2.0	19.4
5 1	13 52.53	-12 29.8	2.425	3.421	3.0	21.0	5 1	13 51.83	-5 3.4	2.095	3.082	4.6	19.6
5 11	13 45.35	-11 56.5	2.459	3.417	6.3	21.2	5 11	13 44.05	-4 31.1	2.148	3.091	8.0	19.8
5 21	13 39.37	-11 28.5	2.518	3.412	9.3	21.4	5 21	13 37.75	-4 10.7	2.226	3.100	11.2	20.0
5 31	13 35.04	-11 8.3	2.602	3.408	11.9	21.6	5 31	13 33.37	-4 3.4	2.326	3.109	13.8	20.2
<b>216700</b>	2004 <i>RH</i> <sub>155</sub>		4 22.0 294°23'	3°8'/17.6	16		<b>379907</b>	2012 <i>JJ</i> <sub>34</sub>		4 22.0 323°91'	0°9'/21.5	17	
3 22	14 17.22	-3 38.3	2.234	3.117	10.0	20.7	3 22	14 22.30	-11 2.3	1.397	2.283	14.7	20.5
4 1	14 12.83	-2 17.9	2.153	3.099	7.2	20.4	4 1	14 17.26	-10 52.4	1.320	2.268	10.5	20.2
4 11	14 6.97	-0 54.4	2.098	3.080	4.6	20.2	4 11	14 9.71	-10 34.1	1.266	2.254	5.6	19.9
4 21	14 0.24	+0 26.5	2.072	3.061	4.0	20.2	4 21	14 0.55	-10 11.1	1.235	2.240	0.9	19.6
5 1	13 53.37	+1 38.3	2.074	3.043	6.3	20.3	5 1	13 51.05	-9 48.5	1.231	2.227	5.2	19.8
5 11	13 47.11	+2 35.8	2.103	3.024	9.4	20.4	5 11	13 42.56	-9 32.2	1.250	2.214	10.4	20.1
5 21	13 42.09	+3 15.6	2.155	3.006	12.4	20.6	5 21	13 36.18	-9 26.9	1.292	2.203	15.0	20.3
5 31	13 38.80	+3 36.5	2.228	2.988	15.0	20.7	5 31	13 32.63	-9 35.9	1.352	2.192	19.0	20.5
<b>498985</b>	2009 <i>BE</i> <sub>164</sub>		4 22.0 183°48'	1°1'/20.9	17		<b>506772</b>	2006 <i>WV</i> <sub>200</sub>		4 22.0 156°52'	0°3'/21.7	18	
3 22	14 20.74	-10 7.2	2.436	3.303	9.9	22.2	3 22	14 19.46	-12 48.8	2.799	3.658	9.1	22.6
4 1	14 15.14	-9 35.5	2.363	3.303	7.0	22.0	4 1	14 14.09	-12 18.6	2.728	3.663	6.4	22.4
4 11	14 8.14	-8 58.6	2.317	3.303	3.7	21.8	4 11	14 7.53	-11 42.2	2.684	3.669	3.4	22.2
4 21	14 0.35	-8 19.7	2.299	3.302	1.1	21.6	4 21	14 0.33	-11 2.4	2.670	3.674	0.4	21.9
5 1	13 52.51	-7 42.7	2.311	3.302	3.8	21.8	5 1	13 53.12	-10 22.4	2.685	3.679	3.0	22.2
5 11	13 45.35	-7 11.4	2.351	3.301	7.1	22.0	5 11	13 46.51	-9 45.8	2.729	3.684	6.0	22.4
5 21	13 39.45	-6 48.9	2.417	3.299	10.1	22.2	5 21	13 41.00	-9 15.6	2.800	3.688	8.7	22.6
5 31	13 35.24	-6 37.2	2.505	3.297	12.6	22.3	5 31	13 36.97	-8 54.0	2.895	3.691	11.0	22.7
<b>332195</b>	2006 <i>DB</i> <sub>58</sub>		4 22.0 132°21'	1°8'/23.5	17		<b>292102</b>	2006 <i>RE</i> <sub>50</sub>		4 22.0 164°74'	0°2'/22.2	16	
3 22	14 23.05	-18 44.9	2.058	2.907	12.3	21.2	3 22	14 24.03	-14 53.5	1.976	2.836	12.2	22.1
4 1	14 17.00	-18 35.4	1.989	2.914	9.0	21.0	4 1	14 17.73	-14 23.2	1.906	2.840	8.7	21.9
4 11	14 9.22	-18 13.6	1.944	2.921	5.4	20.8	4 11	14 9.64	-13 42.5	1.861	2.845	4.8	21.6
4 21	14 0.45	-17 41.4	1.926	2.928	2.0	20.6	4 21	14 0.54	-12 54.6	1.844	2.849	0.6	21.3
5 1	13 51.64	-17 2.5	1.937	2.934	3.5	20.7	5 1	13 51.39	-12 4.3	1.856	2.852	3.8	21.6
5 11	13 43.71	-16 21.9	1.976	2.940	7.1	20.9	5 11	13 43.16	-11 17.3	1.895	2.854	7.8	21.8
5 21	13 37.38	-15 44.6	2.040	2.946	10.6	21.2	5 21	13 36.59	-10 38.3	1.960	2.856	11.4	22.0
5 31	13 33.14	-15 14.9	2.126	2.951	13.5	21.4	5 31	13 32.16	-10 10.8	2.047	2.858	14.4	22.2
<b>238648</b>	2005 <i>EZ</i> <sub>40</sub>		4 22.0 50°49'	7°9'/16.1	17		<b>20573</b>	Garynadler		4 22.0 213°01'	2°9'/19.4	18	
3 22	14 23.13	+8 20.2	1.731	2.608	12.8	19.9	3 22	14 20.69	-6 35.8	1.925	2.806	11.5	19.0
4 1	14 17.03	+9 10.9	1.693	2.621	10.1	19.8	4 1	14 15.39	-5 38.0	1.858	2.804	8.1	18.8
4 11	14 9.17	+9 49.8	1.678	2.634	8.2	19.7	4 11	14 8.39	-4 36.0	1.816	2.802	4.6	18.5
4 21	14 0.44	+10 10.8	1.689	2.648	8.2	19.7	4 21	14 0.42	-3 35.2	1.801	2.800	3.0	18.4
5 1	13 51.86	+10 9.6	1.726	2.662	10.0	19.9	5 1	13 52.39	-2 41.7	1.815	2.797	5.7	18.6
5 11	13 44.38	+9 45.4	1.786	2.676	12.5	20.0	5 11	13 45.20	-2 0.7	1.855	2.795	9.3	18.8
5 21	13 38.70	+8 59.8	1.867	2.690	15.1	20.2	5 21	13 39.56	-1 35.3	1.918	2.792	12.7	19.0
5 31	13 35.23	+7 56.1	1.967	2.704	17.3	20.4	5 31	13 35.94	-1 27.0	2.002	2.789	15.5	19.2
<b>388748</b>	2007 <i>VM</i> <sub>335</sub>		4 22.0 221°32'	4°6'/17.2	18		<b>141008</b>	2001 <i>WA</i> <sub>34</sub>		4 22.0 42°01'	3°0'/19.9	18	
3 22	14 19.87	+1 31.8	2.373	3.250	9.8	20.9	3 22	14 21.77	-7 16.2	1.418	2.309	14.2	19.7
4 1	14 14.53	+2 21.9	2.308	3.246	7.2	20.7	4 1	14 16.44	-6 29.9	1.371	2.322	9.9	19.5
4 11	14 7.81	+3 8.9	2.270	3.242	5.1	20.6	4 11	14 9.01	-5 39.3	1.348	2.335	5.4	19.2
4 21	14 0.32	+3 48.3	2.259	3.238	4.8	20.5	4 21	14 0.48	-4 50.7	1.349	2.349	3.0	19.1
5 1	13 52.79	+4 15.8	2.277	3.234	6.6	20.6	5 1	13 52.04	-4 10.9	1.376	2.364	6.3	19.3
5 11	13 45.93	+4 28.5	2.321	3.230	9.2	20.8	5 11	13 44.84	-3 45.3	1.428	2.379	10.6	19.6
5 21	13 40.34	+4 25.3	2.389	3.226	11.8	21.0	5 21	13 39.68	-3 36.8	1.501	2.394	14.5	19.9
5 31	13 36.41	+4 6.4	2.477	3.221	14.0	21.1	5 31	13 37.03	-3 46.1	1.594	2.409	17.7	20.1
<b>502653</b>	2015 <i>CE</i> <sub>44</sub>		4 22.0 229°00'	0°4'/21.7	17		<b>470152</b>	2006 <i>UL</i> <sub>96</sub>		4 22.0 168°07'	1°2'/20.8	17	
3 22	14 20.61	-13											

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4 22.0

4 22.0

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>231310</b>	2006 BC <sub>191</sub>		4 22.0 19 <sup>o</sup> 72	4.3/24.9	17		<b>83435</b>	2001 SO <sub>53</sub>		4 22.0 231 <sup>o</sup> 65	0.7/21.4	18	
3 22	14 23.89	-22 50.9	1.647	2.492	15.0	19.9	3 22	14 22.10	-10 35.0	2.326	3.191	10.4	19.3
4 1	14 18.10	-23 18.8	1.578	2.495	11.5	19.7	4 1	14 16.23	-10 23.0	2.247	3.186	7.3	19.1
4 11	14 10.03	-23 29.8	1.532	2.499	7.7	19.5	4 11	14 8.82	-10 5.9	2.194	3.180	3.9	18.9
4 21	14 0.59	-23 23.7	1.510	2.503	4.6	19.3	4 21	14 0.50	-9 46.2	2.170	3.174	0.8	18.6
5 1	13 50.97	-23 2.8	1.515	2.508	5.1	19.3	5 1	13 52.05	-9 27.2	2.175	3.168	3.7	18.8
5 11	13 42.43	-22 32.5	1.546	2.513	8.5	19.5	5 11	13 44.29	-9 12.3	2.208	3.162	7.2	19.0
5 21	13 35.90	-21 59.4	1.600	2.518	12.2	19.8	5 21	13 37.86	-9 4.2	2.266	3.155	10.4	19.2
5 31	13 32.01	-21 29.7	1.676	2.524	15.5	20.0	5 31	13 33.25	-9 5.2	2.347	3.149	13.1	19.4
<b>497054</b>	2003 SK <sub>353</sub>		4 22.0 217 <sup>o</sup> 95	1.8/19.9	18		<b>218804</b>	2006 BB <sub>252</sub>		4 22.0 252 <sup>o</sup> 17	0.7/20.7	18	
3 22	14 20.45	-8 16.0	2.683	3.550	9.1	22.6	3 22	14 12.94	-9 23.9	4.590	5.454	5.7	21.0
4 1	14 14.89	-7 22.9	2.599	3.539	6.4	22.4	4 1	14 9.23	-8 57.8	4.508	5.447	4.0	20.9
4 11	14 8.03	-6 25.1	2.542	3.528	3.5	22.2	4 11	14 4.86	-8 29.3	4.454	5.440	2.1	20.8
4 21	14 0.40	-5 26.3	2.515	3.516	1.9	22.1	4 21	14 0.12	-8 0.0	4.430	5.433	0.7	20.6
5 1	13 52.68	-4 30.9	2.519	3.503	4.2	22.2	5 1	13 55.34	-7 31.9	4.436	5.426	2.2	20.8
5 11	13 45.53	-3 43.2	2.551	3.490	7.2	22.4	5 11	13 50.86	-7 6.9	4.472	5.418	4.1	20.9
5 21	13 39.50	-3 6.1	2.609	3.476	10.0	22.5	5 21	13 46.96	-6 46.4	4.535	5.411	5.9	21.0
5 31	13 35.02	-2 41.7	2.690	3.461	12.4	22.7	5 31	13 43.89	-6 31.8	4.622	5.404	7.4	21.1
<b>110467</b>	2001 TH <sub>52</sub>		4 22.0 149 <sup>o</sup> 84	1.0/21.1	18		<b>308663</b>	2006 BZ <sub>180</sub>		4 22.0 174 <sup>o</sup> 81	3.7/19.1	17	
3 22	14 24.02	-10 36.8	2.393	3.254	10.3	21.7	3 22	14 25.23	-5 5.1	1.748	2.627	12.6	21.9
4 1	14 17.40	-10 7.1	2.329	3.266	7.2	21.5	4 1	14 18.69	-4 3.7	1.686	2.630	8.9	21.6
4 11	14 9.35	-9 31.9	2.291	3.277	3.8	21.3	4 11	14 10.21	-2 59.2	1.648	2.632	5.2	21.4
4 21	14 0.53	-8 54.4	2.283	3.287	1.0	21.1	4 21	14 0.63	-1 58.0	1.638	2.634	3.8	21.3
5 1	13 51.72	-8 18.6	2.305	3.297	3.7	21.4	5 1	13 51.03	-1 6.6	1.656	2.635	6.6	21.5
5 11	13 43.71	-7 48.1	2.356	3.305	7.1	21.6	5 11	13 42.45	-0 30.6	1.701	2.635	10.4	21.7
5 21	13 37.09	-7 26.2	2.433	3.313	10.1	21.8	5 21	13 35.69	-0 12.5	1.768	2.634	13.9	21.9
5 31	13 32.27	-7 14.6	2.533	3.321	12.6	22.0	5 31	13 31.27	-0 13.2	1.856	2.633	16.9	22.1
<b>512335</b>	2016 LV <sub>49</sub>		4 22.0 241 <sup>o</sup> 92	5.0/16.8	17		<b>269084</b>	2007 HE <sub>17</sub>		4 22.0 337 <sup>o</sup> 50	2.5/20.1	17	
3 22	14 19.95	-1 30.8	1.978	2.862	11.1	21.5	3 22	14 18.98	-8 57.7	1.422	2.315	14.0	19.7
4 1	14 14.88	+0 3.6	1.908	2.852	8.1	21.2	4 1	14 14.74	-8 7.3	1.352	2.304	9.9	19.4
4 11	14 8.14	+1 39.5	1.865	2.842	5.5	21.1	4 11	14 8.28	-7 8.4	1.305	2.294	5.4	19.1
4 21	14 0.42	+3 9.5	1.849	2.831	5.3	21.0	4 21	14 0.46	-6 7.6	1.283	2.285	2.6	18.9
5 1	13 52.60	+4 26.0	1.861	2.820	7.7	21.1	5 1	13 52.45	-5 12.6	1.287	2.277	6.2	19.1
5 11	13 45.55	+5 23.5	1.899	2.809	10.9	21.3	5 11	13 45.46	-4 30.6	1.314	2.270	10.9	19.4
5 21	13 39.97	+5 59.1	1.959	2.798	13.9	21.5	5 21	13 40.43	-4 6.3	1.363	2.263	15.2	19.6
5 31	13 36.35	+6 12.4	2.039	2.786	16.5	21.7	5 31	13 37.95	-4 2.2	1.430	2.257	18.8	19.8
<b>299735</b>	2006 RC <sub>59</sub>		4 22.0 238 <sup>o</sup> 92	3.1/24.7	16		<b>18944</b>	Sawilliams		4 22.0 234 <sup>o</sup> 51	1.5/20.5	18	
3 22	14 23.57	-22 19.7	2.384	3.213	11.5	21.2	3 22	14 19.73	-8 57.6	2.415	3.286	9.9	19.1
4 1	14 17.39	-22 37.9	2.296	3.205	8.8	21.0	4 1	14 14.50	-8 21.6	2.337	3.279	6.9	18.9
4 11	14 9.51	-22 43.9	2.233	3.198	5.8	20.8	4 11	14 7.87	-7 40.8	2.286	3.272	3.7	18.7
4 21	14 0.56	-22 37.8	2.197	3.190	3.4	20.7	4 21	14 0.42	-6 58.9	2.263	3.265	1.5	18.5
5 1	13 51.39	-22 21.3	2.190	3.182	3.9	20.7	5 1	13 52.88	-6 19.8	2.269	3.258	4.1	18.7
5 11	13 42.89	-21 58.0	2.212	3.174	6.7	20.8	5 11	13 45.98	-5 47.6	2.303	3.250	7.3	18.9
5 21	13 35.80	-21 32.0	2.260	3.166	9.7	21.0	5 21	13 40.31	-5 25.1	2.363	3.243	10.4	19.1
5 31	13 30.65	-21 7.9	2.331	3.157	12.4	21.2	5 31	13 36.32	-5 14.4	2.444	3.235	13.0	19.3
<b>100901</b>	1998 KZ <sub>6</sub>		4 22.0 295 <sup>o</sup> 51	3.3/19.9	18		<b>21099</b>	1992 GM <sub>2</sub>		4 22.0 296 <sup>o</sup> 81	0.9/22.6	18	
3 22	14 23.22	-6 32.3	1.447	2.336	14.1	19.5	3 22	14 23.90	-16 3.9	1.207	2.088	16.9	17.7
4 1	14 17.89	-5 53.3	1.366	2.315	10.1	19.2	4 1	14 18.75	-15 45.6	1.133	2.077	12.3	17.4
4 11	14 10.07	-5 8.9	1.307	2.294	5.7	18.9	4 11	14 10.67	-15 10.1	1.080	2.066	7.0	17.1
4 21	14 0.63	-4 24.8	1.273	2.273	3.3	18.7	4 21	14 0.71	-14 20.7	1.051	2.055	1.4	16.7
5 1	13 50.78	-3 48.2	1.265	2.252	6.8	18.9	5 1	13 50.37	-13 24.3	1.046	2.045	5.2	16.9
5 11	13 41.87	-3 25.4	1.281	2.232	11.6	19.1	5 11	13 41.27	-12 30.1	1.064	2.034	11.0	17.2
5 21	13 34.99	-3 20.6	1.320	2.211	16.1	19.3	5 21	13 34.67	-11 46.4	1.104	2.024	16.2	17.4
5 31	13 30.88	-3 35.5	1.376	2.191	20.0	19.5	5 31	13 31.34	-11 19.5	1.161	2.014	20.6	17.7
<b>415730</b>	1999 VS <sub>46</sub>		4 22.0 157 <sup>o</sup> 30	3.7/19.6	18		<b>317826</b>	2003 SZ <sub>288</sub>		4 22.0 170 <sup>o</sup> 61	1.4/20.8	18	
3 22	14 30.81	-1 9.0	2.061	2.925	11.6	21.6	3 22	14 25.06	-10 5.6	2.046	2.912	11.6	21.3
4 1	14 22.35	-1 1.6	1.998	2.933	8.4	21.4	4 1	14 18.39	-9 28.4	1.977	2.917	8.1	21.1
4 11	14 12.07	-0 56.9	1.962	2.941	5.1	21.2	4 11	14 9.99	-8 44.8	1.935	2.921	4.3	20.8
4 21	14 0.80	-0 58.3	1.955	2.948	3.7	21.2	4 21	14 0.63	-7 58.9	1.921	2.924	1.4	20.6
5 1	13 49.54	-1 8.7	1.978	2.954	5.9	21.3	5 1	13 51.23	-7 15.6	1.936	2.926	4.4	20.9
5 11	13 39.30	-1 30.1	2.030	2.960	9.2	21.5	5 11	13 42.72	-6 39.6	1.979	2.928	8.2	21.1
5 21	13 30.80	-2 2.7	2.108	2.965	12.4	21.7	5 21	13 35.81	-6 14.6	2.047	2.929	11.7	21.3
5 31	13 24.54	-2 46.4	2.207	2.969	15.0	21.9	5 31	13 30.99	-6 2.7	2.137	2.929	14.6	21.5
<b>499119</b>	2009 HW <sub>98</sub>		4 22.0 38 <sup>o</sup> 50	0.4/21.7	17		<b>38469</b>	1999 TN <sub>34</sub>		4 22.0 322 <sup>o</sup> 54	9.6/24.8	18	
3 22	14 20.34	-12 37.3	1.990	2.861	11.7	21.2	3 22	14 36.86	-29 1.1	1.586	2.389	17.4	18.4
4 1	14 15.10	-12 15.4	1.927	2.867	8.2	21.0	4 1	14 28.45	-31 20.8	1.495	2.373	14.6	18.2
4 11	14 8.22	-11 45.8	1.888	2.874	4.4	20.8	4 11	14 16.33	-33 26.7	1.428	2.358	11.7	17.9
4 21	14 0.43	-11 11.8	1.876	2.881	0.5	20.5	4 21	14 1.30	-35 9.4	1.386	2.343	9.8	17.8
5 1	13 52.62	-10 37.7	1.892	2.888	3.8	20.7	5 1	13 44.94	-36 21.7	1.371	2.328	10.1	17.8
5 11	13 45.66	-10 8.0	1.936	2.895	7.6	21.0	5 11	13 29.29	-37 3.0	1.382	2.314	12.5	17.9
5 21	13 40.22	-9 46.4	2.004	2.903	11.1	21.2	5 21	13 16.16	-37 19.0	1.416	2.301	15.6	18.0
5 31	13 36.76	-9 35.6	2.093	2.910	14.0	21.4	5 31	13 6.83	-37 19.6	1.471	2.289	18.8	18.2
<b>136603</b>	1993 PR <sub>4</sub>		4 22.0 250 <sup>o</sup> 76	2.8/23.9	18		<b>437216</b>	2012 WS <sub>19</sub>		4 22.0 5 <sup>o</sup> 18	4.4/26.3	17	
3 22	14 26.21	-20 39.4											

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4 22.0

4 22.1

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>189494</b>	1999 Y <sub>Y</sub> <sub>3</sub>		4 22.0 161°03	8°0/1.4	18		<b>364723</b>	2007 VD <sub>82</sub>		4 22.0 159°90	0°6/21.6	16	
3 22	14 29.60	-43 6.3	2.923	3.609	12.8	20.2	3 22	14 25.43	-12 27.6	1.866	2.731	12.6	22.3
4 1	14 21.71	-43 51.6	2.841	3.617	11.3	20.1	4 1	14 18.81	-11 56.2	1.799	2.738	8.9	22.1
4 11	14 11.86	-44 16.2	2.780	3.624	9.8	20.0	4 11	14 10.29	-11 16.0	1.758	2.744	4.7	21.8
4 21	14 0.81	-44 17.5	2.742	3.631	8.5	19.9	4 21	14 0.72	-10 30.8	1.744	2.749	0.7	21.5
5 1	13 49.56	-43 55.3	2.731	3.637	8.0	19.9	5 1	13 51.11	-9 45.8	1.759	2.753	4.2	21.8
5 11	13 39.13	-43 12.7	2.746	3.642	8.5	19.9	5 11	13 42.50	-9 6.5	1.801	2.757	8.4	22.1
5 21	13 30.37	-42 14.7	2.787	3.646	9.6	20.0	5 21	13 35.64	-8 37.1	1.869	2.761	12.1	22.3
5 31	13 23.83	-41 8.1	2.851	3.650	11.1	20.1	5 31	13 31.05	-8 20.5	1.957	2.763	15.2	22.5
<b>437437</b>	2013 YR <sub>5</sub>		4 22.0 33°86	5°7/17.3	17		<b>312032</b>	2007 RM <sub>141</sub>		4 22.0 166°82	1°1/22.9	18	
3 22	14 20.16	+ 1 22.2	1.751	2.639	12.1	20.7	3 22	14 26.26	-16 43.1	1.793	2.649	13.4	21.6
4 1	14 15.03	+ 2 18.8	1.705	2.648	8.9	20.5	4 1	14 19.54	-16 28.2	1.723	2.654	9.7	21.3
4 11	14 8.19	+ 3 10.9	1.683	2.658	6.3	20.3	4 11	14 10.75	-16 0.9	1.677	2.658	5.6	21.1
4 21	14 0.46	+ 3 52.2	1.688	2.669	5.9	20.3	4 21	14 0.76	-15 23.5	1.657	2.661	1.4	20.8
5 1	13 52.80	+ 4 17.4	1.718	2.680	8.0	20.5	5 1	13 50.69	-14 40.7	1.666	2.664	3.9	21.0
5 11	13 46.12	+ 4 23.5	1.773	2.691	11.1	20.7	5 11	13 41.65	-13 58.2	1.703	2.666	8.2	21.3
5 21	13 41.10	+ 4 10.0	1.850	2.703	14.0	20.9	5 21	13 34.48	-13 21.6	1.764	2.667	12.1	21.5
5 31	13 38.16	+ 3 38.2	1.946	2.715	16.5	21.1	5 31	13 29.75	-12 55.3	1.846	2.668	15.4	21.7
<b>144800</b>	2004 HC <sub>55</sub>		4 22.0 318°55	4°3/17.5	18		<b>277757</b>	2006 DS <sub>140</sub>		4 22.0 315°01	2°3/20.3	17	
3 22	14 18.21	- 2 12.2	2.074	2.959	10.6	19.7	3 22	14 21.35	- 7 48.8	1.669	2.553	12.8	20.3
4 1	14 13.55	- 0 57.1	2.010	2.955	7.6	19.5	4 1	14 16.23	- 7 18.2	1.593	2.540	9.0	20.0
4 11	14 7.40	+ 0 18.6	1.973	2.952	5.0	19.3	4 11	14 9.05	- 6 42.5	1.541	2.528	5.0	19.8
4 21	14 0.39	+ 1 28.8	1.963	2.950	4.5	19.3	4 21	14 0.61	- 6 6.3	1.514	2.516	2.3	19.6
5 1	13 53.34	+ 2 27.5	1.980	2.947	6.8	19.4	5 1	13 51.95	- 5 35.1	1.515	2.505	5.6	19.7
5 11	13 47.04	+ 3 9.9	2.024	2.944	9.8	19.6	5 11	13 44.17	- 5 14.3	1.541	2.493	9.8	20.0
5 21	13 42.11	+ 3 33.8	2.091	2.941	12.7	19.8	5 21	13 38.15	- 5 7.2	1.590	2.483	13.8	20.2
5 31	13 38.99	+ 3 38.8	2.177	2.939	15.2	20.0	5 31	13 34.49	- 5 15.7	1.659	2.472	17.2	20.4
<b>471377</b>	2011 SF <sub>99</sub>		4 22.0 178°08	2°5/24.3	17		<b>389265</b>	2009 FS <sub>71</sub>		4 22.1 332°00	1°0/21.2	17	
3 22	14 23.05	-20 48.0	2.499	3.332	10.9	21.1	3 22	14 19.12	-11 22.2	1.930	2.806	11.7	21.0
4 1	14 16.89	-21 1.3	2.419	3.333	8.2	20.9	4 1	14 14.40	-10 49.0	1.855	2.799	8.3	20.8
4 11	14 9.19	-21 3.7	2.364	3.333	5.2	20.7	4 11	14 7.96	-10 8.1	1.804	2.792	4.4	20.5
4 21	14 0.57	-20 55.8	2.338	3.334	2.7	20.5	4 21	14 0.50	- 9 23.4	1.781	2.785	1.0	20.2
5 1	13 51.82	-20 39.4	2.340	3.334	3.4	20.6	5 1	13 52.92	- 8 39.8	1.785	2.778	4.3	20.5
5 11	13 43.74	-20 18.1	2.371	3.334	6.2	20.8	5 11	13 46.11	- 8 2.7	1.815	2.772	8.2	20.7
5 21	13 37.00	-19 55.7	2.429	3.333	9.2	21.0	5 21	13 40.82	- 7 35.9	1.870	2.767	11.8	20.9
5 31	13 32.08	-19 36.0	2.510	3.333	11.8	21.1	5 31	13 37.54	- 7 22.2	1.945	2.761	14.9	21.1
<b>523558</b>	2017 XQ <sub>30</sub>		4 22.0 238°21	3°1/19.2	17		<b>172127</b>	2002 HD <sub>10</sub>		4 22.1 296°13	0°6/21.7	18	
3 22	14 21.11	- 3 20.9	2.310	3.186	10.1	21.8	3 22	14 25.05	-11 35.1	1.408	2.288	14.9	19.6
4 1	14 15.49	- 2 52.1	2.241	3.183	7.1	21.6	4 1	14 19.29	-11 29.0	1.329	2.274	10.7	19.3
4 11	14 8.42	- 2 23.2	2.197	3.180	4.3	21.4	4 11	14 10.91	-11 14.0	1.272	2.260	5.8	19.0
4 21	14 0.51	- 1 58.0	2.182	3.176	3.1	21.3	4 21	14 0.81	-10 53.3	1.241	2.246	0.7	18.5
5 1	13 52.54	- 1 40.3	2.195	3.173	5.3	21.4	5 1	13 50.31	-10 32.0	1.235	2.232	5.2	18.8
5 11	13 45.26	- 1 32.9	2.235	3.169	8.3	21.6	5 11	13 40.85	-10 15.7	1.254	2.218	10.4	19.1
5 21	13 39.29	- 1 37.6	2.300	3.165	11.2	21.8	5 21	13 33.57	-10 9.4	1.296	2.204	15.2	19.3
5 31	13 35.08	- 1 54.9	2.387	3.162	13.7	22.0	5 31	13 29.22	-10 16.6	1.356	2.191	19.2	19.5
<b>147972</b>	1995 ED <sub>2</sub>		4 22.0 136°49	0°5/22.5	17		<b>2884</b>	Reddish		4 22.1 148°47	0°1/21.9	18	
3 22	14 22.84	-15 42.4	1.758	2.623	13.2	21.1	3 22	14 20.28	-13 21.6	2.721	3.578	9.3	17.6
4 1	14 17.11	-15 13.8	1.690	2.626	9.5	20.9	4 1	14 14.73	-12 56.2	2.652	3.586	6.6	17.4
4 11	14 9.42	-14 33.0	1.646	2.630	5.3	20.6	4 11	14 7.95	-12 24.3	2.609	3.593	3.5	17.2
4 21	14 0.61	-13 43.5	1.629	2.633	0.8	20.3	4 21	14 0.51	-11 48.4	2.595	3.600	0.3	16.9
5 1	13 51.74	-12 50.7	1.639	2.636	3.9	20.5	5 1	13 53.05	-11 11.8	2.612	3.607	2.9	17.2
5 11	13 43.87	-12 0.9	1.676	2.639	8.3	20.8	5 11	13 46.22	-10 38.1	2.657	3.613	6.0	17.4
5 21	13 37.79	-11 19.4	1.738	2.642	12.2	21.0	5 21	13 40.54	-10 10.2	2.729	3.619	8.8	17.6
5 31	13 34.02	-10 50.5	1.820	2.645	15.4	21.3	5 31	13 36.40	- 9 50.6	2.824	3.624	11.2	17.7
<b>290680</b>	2005 UV <sub>347</sub>		4 22.0 292°51	0°1/22.1	16		<b>499490</b>	2010 MW		4 22.1 270°41	6°3/27.7	18	C
3 22	14 18.10	-16 2.2	2.218	3.080	11.0	20.5	3 22	14 28.33	-33 17.5	2.057	2.834	14.8	23.6
4 1	14 13.59	-15 1.6	2.121	3.057	7.9	20.2	4 1	14 21.46	-32 59.1	1.930	2.796	12.3	23.3
4 11	14 7.50	-13 47.8	2.051	3.035	4.3	20.0	4 11	14 12.07	-32 13.6	1.826	2.757	9.5	23.0
4 21	14 0.44	-12 24.8	2.008	3.013	0.4	19.6	4 21	14 0.94	-30 58.7	1.747	2.717	7.0	22.8
5 1	13 53.19	-10 58.2	1.994	2.990	3.6	19.8	5 1	13 49.22	-29 15.5	1.697	2.675	6.5	22.7
5 11	13 46.57	- 9 34.7	2.009	2.968	7.4	20.0	5 11	13 38.24	-27 11.0	1.675	2.632	8.8	22.7
5 21	13 41.25	- 8 20.2	2.049	2.945	11.0	20.2	5 21	13 29.11	-24 55.4	1.680	2.587	12.4	22.8
5 31	13 37.76	- 7 19.3	2.111	2.923	14.1	20.4	5 31	13 22.65	-22 40.6	1.710	2.541	16.0	23.0
<b>68278</b>	2001 FC <sub>7</sub>		4 22.0 248°59	4°8/20.1	18		<b>250412</b>	2003 UU <sub>269</sub>		4 22.1 115°03	0°4/22.3	18	
3 22	14 31.92	- 8 13.1	0.633	1.549	22.9	19.4	3 22	14 26.46	-13 56.2	1.581	2.449	14.3	20.2
4 1	14 26.29	- 7 13.6	0.575	1.537	16.6	19.0	4 1	14 19.85	-13 53.6	1.517	2.455	10.2	20.0
4 11	14 15.63	- 5 58.0	0.533	1.525	9.4	18.6	4 11	14 10.98	-13 40.9	1.477	2.461	5.6	19.8
4 21	14 1.29	- 4 37.3	0.509	1.511	4.9	18.2	4 21	14 0.81	-13 20.6	1.462	2.467	0.8	19.4
5 1	13 45.90	- 3 28.3	0.503	1.497	11.0	18.5	5 1	13 50.56	-12 57.1	1.475	2.473	4.3	19.7
5 11	13 32.54	- 2 46.7	0.514	1.482	19.1	18.8	5 11	13 41.46	-12 35.7	1.515	2.478	9.0	20.0
5 21	13 23.42	- 2 40.5	0.539	1.466	26.5	19.1	5 21	13 34.44	-12 21.1	1.578	2.484	13.1	20.2
5 31	13 19.64	- 3 10.8	0.575	1.450	32.6	19.4	5 31	13 30.05	-12 16.8	1.661	2.489	16.6	20.5
<b>205778</b>	2002 CC <sub>72</sub>		4 22.0 33°52	6°0/17.9	18		<b>64105</b>	2001 TH <sub>6</sub>		4 22.1 44°78	2°4/20.8	18	
3 22	14 23.01	- 1 17.7	1.324	2									

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>197115</b>	2003 <i>UG</i> <sub>208</sub>		4 22.1 120° 97'	0° 1/22.1 18			<b>240812</b>	2005 <i>YB</i> <sub>271</sub>		4 22.1 150° 77'	5° 2/18.5 18		
3 22	14 21.81	-13 46.8	1.980	2.845	11.9	20.3	3 22	14 25.25	-2 11.3	1.451	2.339	14.1	20.7
4 1	14 16.23	-13 26.1	1.909	2.847	8.5	20.1	4 1	14 19.03	-1 11.3	1.396	2.342	10.2	20.4
4 11	14 8.92	-12 56.5	1.863	2.848	4.6	19.8	4 11	14 10.54	-0 11.7	1.364	2.345	6.5	20.2
4 21	14 0.61	-12 21.0	1.845	2.849	0.5	19.5	4 21	14 0.80	+0 40.1	1.357	2.348	5.3	20.2
5 1	13 52.22	-11 43.8	1.854	2.851	3.7	19.8	5 1	13 51.04	+1 16.7	1.377	2.351	8.2	20.3
5 11	13 44.68	-11 9.9	1.891	2.852	7.7	20.0	5 11	13 42.50	+1 33.3	1.421	2.353	12.2	20.6
5 21	13 38.70	-10 43.5	1.953	2.853	11.3	20.2	5 21	13 36.06	+1 28.3	1.486	2.355	15.9	20.8
5 31	13 34.79	-10 27.6	2.036	2.854	14.3	20.4	5 31	13 32.27	+1 2.4	1.569	2.357	19.1	21.0
<b>146177</b>	2000 <i>SN</i> <sub>305</sub>		4 22.1 192° 56'	1° 6/24.1 18			<b>155143</b>	2005 <i>UB</i> <sub>10</sub>		4 22.1 239° 76'	2° 0/20.3 17		
3 22	14 19.58	-20 35.3	3.063	3.894	9.1	20.9	3 22	14 22.35	-9 10.2	2.018	2.891	11.4	21.4
4 1	14 14.22	-20 11.8	2.977	3.892	6.8	20.7	4 1	14 16.68	-8 19.7	1.935	2.878	8.1	21.2
4 11	14 7.69	-19 38.1	2.917	3.889	4.2	20.5	4 11	14 9.22	-7 22.2	1.877	2.864	4.4	20.9
4 21	14 0.49	-18 55.8	2.887	3.886	1.9	20.4	4 21	14 0.68	-6 22.4	1.848	2.849	2.0	20.7
5 1	13 53.23	-18 7.8	2.886	3.882	2.6	20.4	5 1	13 51.95	-5 26.0	1.847	2.835	4.9	20.9
5 11	13 46.51	-17 17.7	2.915	3.878	5.2	20.6	5 11	13 43.96	-4 38.7	1.873	2.819	8.8	21.1
5 21	13 40.84	-16 29.3	2.972	3.873	7.8	20.8	5 21	13 37.48	-4 4.4	1.924	2.803	12.4	21.3
5 31	13 36.58	-15 46.1	3.054	3.868	10.1	20.9	5 31	13 33.05	-3 45.8	1.996	2.787	15.4	21.5
<b>23998</b>	1999 <i>RP</i> <sub>29</sub>		4 22.1 35° 03'	19° 2/3.8 18 R			<b>255781</b>	2006 <i>RW</i> <sub>92</sub>		4 22.1 327° 70'	0° 9/22.7 17		
3 22	14 34.13	-46 8.5	1.089	1.842	26.6	18.4	3 22	14 21.62	-16 11.8	1.356	2.234	15.5	20.5
4 1	14 27.97	-48 37.1	1.033	1.845	24.3	18.2	4 1	14 16.85	-15 50.5	1.283	2.225	11.3	20.2
4 11	14 16.62	-50 24.4	0.990	1.849	22.0	18.1	4 11	14 9.57	-15 13.4	1.232	2.217	6.4	19.9
4 21	14 1.42	-51 16.7	0.963	1.853	20.2	18.0	4 21	14 0.72	-14 24.2	1.205	2.209	1.3	19.5
5 1	13 45.13	-51 6.4	0.952	1.857	19.2	17.9	5 1	13 51.61	-13 29.0	1.203	2.202	4.7	19.7
5 11	13 31.09	-49 58.6	0.959	1.862	19.5	17.9	5 11	13 43.63	-12 36.1	1.226	2.195	9.9	20.0
5 21	13 21.69	-48 9.0	0.981	1.867	20.9	18.0	5 21	13 37.82	-11 52.9	1.270	2.189	14.7	20.2
5 31	13 18.00	-45 57.7	1.019	1.872	22.9	18.2	5 31	13 34.88	-11 24.7	1.334	2.183	18.7	20.5
<b>341082</b>	2007 <i>HF</i> <sub>86</sub>		4 22.1 307° 18'	0° 6/21.5 16			<b>284403</b>	2006 <i>UP</i> <sub>91</sub>		4 22.1 121° 41'	2° 3/24.4 18		
3 22	14 18.40	-15 18.8	1.630	2.506	13.5	21.5	3 22	14 20.07	-21 54.0	2.237	3.076	11.8	20.0
4 1	14 14.25	-14 3.1	1.543	2.487	9.6	21.3	4 1	14 14.91	-21 28.5	2.162	3.079	8.8	19.8
4 11	14 8.04	-12 30.0	1.481	2.468	5.2	20.9	4 11	14 8.18	-20 48.5	2.111	3.082	5.5	19.6
4 21	14 0.54	-10 45.3	1.444	2.449	0.7	20.6	4 21	14 0.58	-19 56.3	2.087	3.085	2.7	19.4
5 1	13 52.80	-8 57.8	1.435	2.430	4.8	20.8	5 1	13 52.93	-18 55.8	2.092	3.088	3.4	19.5
5 11	13 45.92	-7 17.3	1.452	2.412	9.6	21.1	5 11	13 46.05	-17 52.5	2.125	3.091	6.6	19.7
5 21	13 40.79	-5 52.3	1.493	2.394	14.0	21.3	5 21	13 40.61	-16 52.0	2.184	3.094	9.8	19.9
5 31	13 38.02	-4 48.1	1.553	2.377	17.7	21.5	5 31	13 37.04	-15 59.1	2.266	3.097	12.6	20.1
<b>472354</b>	2015 <i>BS</i> <sub>24</sub>		4 22.1 272° 36'	2° 2/23.9 17			<b>362033</b>	2008 <i>YV</i> <sub>143</sub>		4 22.1 359° 34'	4° 6/24.9 17		
3 22	14 21.69	-20 8.2	1.850	2.701	13.3	20.5	3 22	14 18.80	-22 39.6	1.027	1.906	19.3	19.9
4 1	14 16.38	-19 50.1	1.770	2.696	9.9	20.2	4 1	14 15.42	-22 46.4	0.965	1.902	14.8	19.6
4 11	14 9.10	-19 16.4	1.715	2.691	6.0	20.0	4 11	14 9.00	-22 27.0	0.923	1.900	9.7	19.4
4 21	14 0.64	-18 29.4	1.685	2.686	2.5	19.8	4 21	14 0.68	-21 42.4	0.901	1.899	5.2	19.1
5 1	13 52.03	-17 33.4	1.683	2.681	3.8	19.8	5 1	13 52.10	-20 38.6	0.901	1.899	6.0	19.1
5 11	13 44.30	-16 34.9	1.708	2.676	7.8	20.1	5 11	13 45.01	-19 26.7	0.922	1.901	10.8	19.4
5 21	13 38.28	-15 40.2	1.758	2.670	11.6	20.3	5 21	13 40.63	-18 18.3	0.964	1.904	15.9	19.7
5 31	13 34.54	-14 54.9	1.829	2.665	14.9	20.5	5 31	13 39.65	-17 23.0	1.023	1.909	20.3	20.0
<b>74112</b>	1998 <i>QE</i> <sub>40</sub>		4 22.1 137° 68'	0° 4/21.7 18			<b>512784</b>	2016 <i>UW</i> <sub>71</sub>		4 22.1 141° 11'	0° 4/22.7 18		
3 22	14 23.77	-13 40.1	1.924	2.788	12.3	19.3	3 22	14 16.29	-15 35.4	3.883	4.729	7.0	22.8
4 1	14 17.55	-12 57.4	1.862	2.800	8.7	19.1	4 1	14 11.69	-15 13.8	3.811	4.739	5.0	22.7
4 11	14 9.59	-12 5.0	1.825	2.810	4.6	18.9	4 11	14 6.26	-14 46.7	3.767	4.748	2.8	22.6
4 21	14 0.68	-11 7.1	1.816	2.821	0.5	18.5	4 21	14 0.40	-14 15.7	3.752	4.756	0.6	22.4
5 1	13 51.81	-10 9.1	1.835	2.830	4.0	18.8	5 1	13 54.53	-13 43.1	3.768	4.765	2.0	22.5
5 11	13 43.90	-9 16.9	1.882	2.839	8.0	19.1	5 11	13 49.08	-13 11.3	3.814	4.773	4.3	22.7
5 21	13 37.68	-8 35.1	1.955	2.848	11.6	19.3	5 21	13 44.40	-12 42.5	3.888	4.781	6.3	22.8
5 31	13 33.59	-8 6.9	2.048	2.856	14.6	19.6	5 31	13 40.76	-12 18.6	3.986	4.789	8.1	23.0
<b>469942</b>	2006 <i>BB</i> <sub>68</sub>		4 22.1 242° 19'	3° 9/18.8 17			<b>215146</b>	1999 <i>VA</i> <sub>28</sub>		4 22.1 204° 90'	1° 8/23.6 17		
3 22	14 21.58	-3 35.9	1.847	2.730	11.8	21.2	3 22	14 23.01	-20 12.6	1.780	2.631	13.7	20.2
4 1	14 16.12	-2 43.6	1.782	2.727	8.4	21.0	4 1	14 17.34	-19 33.1	1.702	2.628	10.2	20.0
4 11	14 8.88	-1 50.1	1.742	2.725	5.1	20.8	4 11	14 9.64	-18 36.0	1.647	2.625	6.1	19.8
4 21	14 0.62	-1 1.0	1.729	2.723	4.0	20.7	4 21	14 0.74	-17 24.5	1.620	2.621	2.2	19.5
5 1	13 52.29	-0 22.2	1.744	2.720	6.5	20.9	5 1	13 51.72	-16 4.5	1.619	2.617	3.9	19.6
5 11	13 44.85	+0 1.9	1.784	2.718	10.0	21.1	5 11	13 43.67	-14 43.9	1.647	2.613	8.1	19.8
5 21	13 39.01	+0 9.0	1.847	2.715	13.4	21.3	5 21	13 37.43	-13 30.2	1.699	2.608	12.1	20.1
5 31	13 35.29	-0 1.3	1.930	2.712	16.2	21.5	5 31	13 33.55	-12 29.4	1.773	2.603	15.6	20.3
<b>438869</b>	2009 <i>HT</i> <sub>35</sub>		4 22.1 134° 39'	1° 9/19.9 17			<b>93307</b>	2000 <i>SV</i> <sub>209</sub>		4 22.1 216° 49'	1° 1/21.2 18		
3 22	14 18.48	-8 28.2	2.458	3.331	9.6	21.4	3 22	14 26.10	-9 11.2	2.181	3.045	11.1	20.0
4 1	14 13.56	-7 32.9	2.393	3.336	6.7	21.2	4 1	14 19.22	-9 6.0	2.100	3.038	7.8	19.8
4 11	14 7.37	-6 33.1	2.355	3.341	3.6	21.0	4 11	14 10.56	-8 56.7	2.045	3.030	4.2	19.5
4 21	14 0.48	-5 33.2	2.345	3.346	1.9	20.9	4 21	14 0.84	-8 45.8	2.018	3.022	1.1	19.3
5 1	13 53.58	-4 37.7	2.365	3.350	4.3	21.1	5 1	13 50.93	-8 36.4	2.021	3.013	4.1	19.5
5 11	13 47.35	-3 51.0	2.412	3.355	7.3	21.3	5 11	13 41.77	-8 31.7	2.052	3.004	7.8	19.7
5 21	13 42.32	-3 15.9	2.485	3.359	10.2	21.5	5 21	13 34.11	-8 34.4	2.110	2.994	11.2	19.9
5 31	13 38.88	-2 54.2	2.580	3.363	12.6	21.6	5 31	13 28.48	-8 46.3	2.190	2.984	14.2	20.1
<b>190067</b>	2004 <i>RX</i> <sub>327</sub>		4 22.1 268° 50'	6° 5/27.7 18			<b>389228</b>	2009 <i>DB</i> <sub>141</sub>		4 22.			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>31461</b>	Shannonlee		4 22.1	6°33'	3°4'/20.1	18	<b>134673</b>	1999 VM <sub>211</sub>		4 22.1	277°15'	0°6'/22.5	18
3 22	14 22.95	- 5 30.8	1.299	2.193	14.9	17.4	3 22	14 24.59	-15 22.1	1.634	2.500	14.0	20.4
4 1	14 17.66	- 5 11.0	1.242	2.194	10.6	17.1	4 1	14 18.86	-15 4.8	1.540	2.477	10.2	20.1
4 11	14 9.93	- 4 49.2	1.207	2.195	6.0	16.9	4 11	14 10.71	-14 34.5	1.469	2.453	5.8	19.7
4 21	14 0.78	- 4 31.0	1.196	2.197	3.4	16.7	4 21	14 0.93	-13 53.5	1.424	2.428	1.0	19.3
5 1	13 51.54	- 4 21.9	1.210	2.200	6.8	16.9	5 1	13 50.66	-13 6.7	1.406	2.404	4.4	19.5
5 11	13 43.56	- 4 26.5	1.248	2.203	11.4	17.2	5 11	13 41.20	-12 20.7	1.414	2.379	9.4	19.8
5 21	13 37.81	- 4 46.7	1.307	2.208	15.6	17.5	5 21	13 33.64	-11 42.1	1.446	2.353	14.0	20.0
5 31	13 34.86	- 5 22.8	1.385	2.213	19.2	17.7	5 31	13 28.73	-11 16.1	1.498	2.328	18.0	20.1
<b>42332</b>	2001 XP <sub>211</sub>		4 22.1	122°67'	2°3'/20.3	18	<b>205568</b>	2001 SL <sub>322</sub>		4 22.1	269°80'	4°5'/26.4	17
3 22	14 24.69	- 9 24.8	1.545	2.425	13.9	19.4	3 22	14 21.33	-27 36.8	2.197	3.010	12.9	19.9
4 1	14 18.49	- 8 26.1	1.490	2.436	9.7	19.1	4 1	14 16.02	-27 36.9	2.110	3.004	10.2	19.7
4 11	14 10.21	- 7 19.9	1.460	2.447	5.2	18.9	4 11	14 8.92	-27 19.0	2.047	2.997	7.3	19.5
4 21	14 0.80	- 6 12.7	1.455	2.457	2.4	18.7	4 21	14 0.73	-26 43.4	2.009	2.991	5.0	19.3
5 1	13 51.45	- 5 11.9	1.478	2.467	5.8	19.0	5 1	13 52.38	-25 52.6	1.998	2.985	4.8	19.3
5 11	13 43.30	- 4 24.2	1.527	2.477	10.1	19.2	5 11	13 44.79	-24 51.8	2.015	2.978	7.1	19.4
5 21	13 37.17	- 3 53.5	1.599	2.486	14.0	19.5	5 21	13 38.74	-23 47.2	2.058	2.972	10.1	19.6
5 31	13 33.53	- 3 41.7	1.690	2.495	17.3	19.7	5 31	13 34.76	-22 45.3	2.124	2.965	12.9	19.8
<b>390270</b>	2012 XF <sub>145</sub>		4 22.1	141°37'	1°5'/20.5	17	<b>208168</b>	2000 PH <sub>18</sub>		4 22.1	225°25'	0°2'/22.3	16
3 22	14 19.71	- 8 31.9	2.499	3.370	9.6	21.1	3 22	14 25.51	-14 56.1	1.844	2.704	12.9	21.5
4 1	14 14.44	- 7 58.6	2.432	3.374	6.7	20.9	4 1	14 19.15	-14 26.7	1.759	2.693	9.3	21.3
4 11	14 7.86	- 7 21.5	2.392	3.378	3.6	20.7	4 11	14 10.68	-13 45.4	1.698	2.682	5.1	21.0
4 21	14 0.57	- 6 43.9	2.380	3.382	1.6	20.5	4 21	14 0.92	-12 55.3	1.665	2.669	0.6	20.7
5 1	13 53.26	- 6 9.6	2.397	3.386	3.9	20.7	5 1	13 50.90	-12 1.6	1.660	2.656	4.1	20.9
5 11	13 46.60	- 5 42.2	2.443	3.389	7.0	20.9	5 11	13 41.75	-11 10.4	1.682	2.642	8.5	21.1
5 21	13 41.15	- 5 24.1	2.514	3.393	9.9	21.1	5 21	13 34.36	-10 27.5	1.730	2.628	12.6	21.3
5 31	13 37.31	- 5 17.0	2.607	3.396	12.3	21.3	5 31	13 29.33	- 9 57.2	1.799	2.612	16.0	21.5
<b>45159</b>	1999 XQ <sub>119</sub>		4 22.1	80°86'	3°6'/24.8	18	<b>464664</b>	2001 SS <sub>201</sub>		4 22.1	149°73'	4°7'/25.4	17
3 22	14 24.75	-22 52.4	1.538	2.386	15.7	18.8	3 22	14 28.23	-25 5.5	1.934	2.754	14.1	21.3
4 1	14 18.73	-22 44.9	1.478	2.399	11.9	18.6	4 1	14 21.07	-25 40.7	1.859	2.759	11.0	21.1
4 11	14 10.41	-22 17.5	1.441	2.411	7.7	18.4	4 11	14 11.71	-25 59.4	1.808	2.764	7.7	20.9
4 21	14 0.83	-21 32.0	1.428	2.424	4.0	18.2	4 21	14 1.02	-26 0.5	1.784	2.769	5.1	20.8
5 1	13 51.26	-20 33.6	1.442	2.437	4.7	18.2	5 1	13 50.13	-25 45.4	1.787	2.773	5.3	20.8
5 11	13 42.95	-19 29.9	1.481	2.450	8.6	18.5	5 11	13 40.21	-25 18.6	1.818	2.777	8.0	21.0
5 21	13 36.80	-18 29.1	1.544	2.463	12.5	18.7	5 21	13 32.20	-24 46.0	1.874	2.781	11.3	21.2
5 31	13 33.34	-17 37.9	1.629	2.475	16.0	19.0	5 31	13 26.70	-24 14.1	1.952	2.784	14.3	21.4
<b>388819</b>	2008 CS <sub>76</sub>		4 22.1	84°69'	3°7'/18.6	18	<b>284452</b>	2007 EU <sub>218</sub>		4 22.1	256°66'	0°4'/22.8	17
3 22	14 21.03	- 1 28.8	2.238	3.115	10.3	20.3	3 22	14 13.66	-15 30.3	4.650	5.496	6.0	21.4
4 1	14 15.45	- 0 53.9	2.180	3.121	7.4	20.1	4 1	14 9.83	-15 13.1	4.559	5.486	4.3	21.3
4 11	14 8.44	- 0 20.6	2.147	3.127	4.7	19.9	4 11	14 5.31	-14 51.3	4.496	5.476	2.4	21.1
4 21	14 0.65	+ 0 7.1	2.142	3.132	3.8	19.9	4 21	14 0.39	-14 26.3	4.462	5.466	0.5	20.9
5 1	13 52.86	+ 0 25.3	2.166	3.138	5.8	20.0	5 1	13 55.42	-13 59.6	4.459	5.455	1.7	21.0
5 11	13 45.84	+ 0 31.1	2.216	3.143	8.7	20.2	5 11	13 50.74	-13 33.2	4.485	5.445	3.6	21.2
5 21	13 40.17	+ 0 23.4	2.291	3.149	11.5	20.4	5 21	13 46.65	-13 8.9	4.540	5.434	5.5	21.3
5 31	13 36.27	+ 0 2.2	2.386	3.154	13.9	20.6	5 31	13 43.41	-12 48.3	4.620	5.424	7.1	21.4
<b>413356</b>	2003 YY <sub>67</sub>		4 22.1	135°25'	1°2'/21.1	16	<b>171930</b>	2001 SJ <sub>170</sub>		4 22.1	142°13'	2°6'/24.8	17
3 22	14 25.03	-10 52.1	1.849	2.718	12.5	22.3	3 22	14 21.39	-22 40.9	2.513	3.342	11.0	20.8
4 1	14 18.50	-10 13.7	1.790	2.730	8.7	22.1	4 1	14 15.72	-22 28.6	2.439	3.349	8.3	20.6
4 11	14 10.15	- 9 28.1	1.756	2.742	4.6	21.9	4 11	14 8.62	-22 3.2	2.390	3.356	5.4	20.5
4 21	14 0.82	- 8 39.7	1.749	2.753	1.2	21.7	4 21	14 0.72	-21 26.2	2.368	3.363	2.9	20.3
5 1	13 51.52	- 7 53.8	1.771	2.763	4.5	21.9	5 1	13 52.78	-20 40.7	2.376	3.370	3.3	20.3
5 11	13 43.26	- 7 15.8	1.821	2.773	8.6	22.2	5 11	13 45.56	-19 51.1	2.412	3.376	6.0	20.5
5 21	13 36.74	- 6 49.3	1.895	2.782	12.1	22.4	5 21	13 39.66	-19 2.1	2.475	3.382	8.9	20.7
5 31	13 32.45	- 6 36.8	1.990	2.791	15.1	22.7	5 31	13 35.51	-18 18.1	2.561	3.388	11.4	20.9
<b>39146</b>	2000 WV <sub>90</sub>		4 22.1	356°62'	4°2'/18.6	18	<b>181881</b>	1999 PB <sub>9</sub>		4 22.1	235°00'	2°2'/20.2	17
3 22	14 21.62	+ 0 14.3	2.101	2.979	10.8	18.7	3 22	14 24.00	- 8 53.3	1.927	2.800	11.9	21.5
4 1	14 15.99	+ 0 11.5	2.037	2.978	7.8	18.5	4 1	14 17.97	- 8 0.4	1.843	2.786	8.4	21.2
4 11	14 8.78	+ 0 34.5	1.999	2.977	5.1	18.3	4 11	14 10.01	- 7 0.2	1.784	2.770	4.6	21.0
4 21	14 0.69	+ 0 50.6	1.988	2.977	4.3	18.2	4 21	14 0.87	- 5 57.6	1.753	2.755	2.2	20.8
5 1	13 52.55	+ 0 55.9	2.005	2.976	6.3	18.4	5 1	13 51.50	- 4 58.9	1.751	2.738	5.3	20.9
5 11	13 45.20	+ 0 48.1	2.049	2.976	9.3	18.5	5 11	13 42.92	- 4 9.9	1.776	2.721	9.3	21.1
5 21	13 39.29	+ 0 26.3	2.116	2.976	12.2	18.7	5 21	13 35.94	- 3 35.1	1.825	2.703	13.0	21.3
5 31	13 35.28	- 0 9.1	2.204	2.977	14.7	18.9	5 31	13 31.14	- 3 17.1	1.895	2.684	16.2	21.5
<b>255716</b>	2006 QK <sub>119</sub>		4 22.1	173°34'	0°7'/21.4	16	<b>348879</b>	2006 SJ <sub>210</sub>		4 22.1	140°07'	0°0'/22.1	17
3 22	14 24.07	-12 29.7	2.055	2.918	11.7	21.9	3 22	14 20.48	-13 59.6	2.660	3.516	9.6	22.7
4 1	14 17.78	-11 48.8	1.984	2.922	8.2	21.7	4 1	14 14.94	-13 33.2	2.592	3.525	6.8	22.5
4 11	14 9.77	-10 59.4	1.939	2.925	4.4	21.5	4 11	14 8.15	-12 59.8	2.550	3.534	3.7	22.3
4 21	14 0.80	-10 5.3	1.922	2.927	0.7	21.2	4 21	14 0.67	-12 21.9	2.538	3.542	0.4	22.1
5 1	13 51.78	- 9 11.6	1.935	2.928	4.0	21.4	5 1	13 53.19	-11 42.9	2.555	3.551	2.9	22.3
5 11	13 43.63	- 8 23.8	1.975	2.929	7.9	21.7	5 11	13 46.36	-11 6.7	2.601	3.558	6.1	22.5
5 21	13 37.05	- 7 46.1	2.041	2.929	11.4	21.9	5 21	13 40.71	-10 36.2	2.674	3.566	8.9	22.7
5 31	13 32.52	- 7 21.4	2.128	2.928	14.3	22.1	5 31	13 36.63	-10 14.1	2.770	3.573	11.3	22.9
<b>190406</b>	1999 TR <sub>194</sub>		4 22.1	221°81'	2°6'/24.3	18	<b>311557</b>	2006 BY <sub>199</sub>		4 22.1	300°67'	2°5'/23.6	17
3 22	14 25.62	-21 2.2	2.427										

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>327193</b>	2005 <i>MQ</i> <sub>28</sub>		4 22.1 264°99	2°5/24.2	17		<b>464786</b>	2003 <i>WN</i> <sub>176</sub>		4 22.1 133°42	1°1/21.2	16	
3 22	14 22.48	-21 22.7	1.737	2.586	14.1	21.1	3 22	14 25.22	-11 20.9	1.833	2.702	12.6	22.2
4 1	14 17.17	-20 57.2	1.650	2.574	10.6	20.8	4 1	14 18.67	-10 44.3	1.774	2.714	8.8	22.0
4 11	14 9.69	-20 13.1	1.586	2.561	6.6	20.5	4 11	14 10.28	-9 59.9	1.740	2.726	4.7	21.8
4 21	14 0.84	-19 12.5	1.547	2.547	2.9	20.3	4 21	14 0.90	-9 12.2	1.734	2.738	1.1	21.5
5 1	13 51.73	-18 0.4	1.536	2.534	4.1	20.3	5 1	13 51.56	-8 26.5	1.755	2.749	4.5	21.8
5 11	13 43.53	-16 44.3	1.552	2.520	8.3	20.5	5 11	13 43.25	-7 48.1	1.805	2.759	8.5	22.1
5 21	13 37.15	-15 32.1	1.592	2.506	12.5	20.7	5 21	13 36.72	-7 21.0	1.878	2.768	12.1	22.3
5 31	13 33.24	-14 30.9	1.653	2.492	16.1	20.9	5 31	13 32.43	-7 7.5	1.973	2.777	15.2	22.5
<b>58187</b>	1991 <i>TD</i>		4 22.1 221°40	1°5/20.9	18		<b>114006</b>	2002 <i>UC</i> <sub>38</sub>		4 22.1 258°09	0°2/21.9	18	
3 22	14 25.49	-8 12.7	2.242	3.107	10.8	19.7	3 22	14 21.47	-13 12.3	2.210	3.073	11.0	20.1
4 1	14 18.78	-8 1.0	2.160	3.098	7.6	19.5	4 1	14 16.00	-12 48.9	2.123	3.060	7.8	19.9
4 11	14 10.36	-7 45.8	2.103	3.088	4.1	19.2	4 11	14 8.89	-12 17.2	2.062	3.047	4.2	19.7
4 21	14 0.91	-7 29.8	2.075	3.078	1.5	19.0	4 21	14 0.77	-11 40.2	2.029	3.033	0.4	19.3
5 1	13 51.27	-7 16.3	2.077	3.068	4.2	19.2	5 1	13 52.47	-11 1.7	2.024	3.020	3.6	19.6
5 11	13 42.34	-7 8.8	2.108	3.056	7.8	19.4	5 11	13 44.83	-10 26.3	2.047	3.006	7.4	19.8
5 21	13 34.85	-7 9.5	2.164	3.045	11.2	19.6	5 21	13 38.56	-9 57.9	2.096	2.992	10.8	20.0
5 31	13 29.32	-7 20.4	2.243	3.032	14.0	19.8	5 31	13 34.19	-9 39.8	2.167	2.977	13.8	20.1
<b>250372</b>	2003 <i>TS</i> <sub>15</sub>		4 22.1 292°55	5°0/18.8	18		<b>62619</b>	2000 <i>SE</i> <sub>348</sub>		4 22.1 113°82	4°6/18.6	18	
3 22	14 24.17	-2 38.8	1.415	2.305	14.2	20.1	3 22	14 25.65	+0 15.5	1.970	2.844	11.6	18.9
4 1	14 18.66	-1 51.0	1.337	2.285	10.3	19.8	4 1	14 18.79	+0 46.7	1.920	2.858	8.4	18.7
4 11	14 10.62	-1 2.0	1.283	2.266	6.5	19.5	4 11	14 10.28	+1 14.4	1.895	2.872	5.5	18.5
4 21	14 0.95	-0 18.8	1.253	2.246	5.2	19.4	4 21	14 0.90	+1 34.0	1.898	2.885	4.7	18.5
5 1	13 50.90	+0 10.9	1.248	2.227	8.3	19.5	5 1	13 51.61	+1 41.5	1.929	2.898	6.7	18.6
5 11	13 41.83	+0 21.4	1.268	2.208	12.7	19.7	5 11	13 43.32	+1 34.5	1.987	2.910	9.8	18.8
5 21	13 34.84	+0 10.1	1.308	2.188	17.0	19.9	5 21	13 36.68	+1 12.8	2.069	2.922	12.7	19.1
5 31	13 30.66	-0 23.2	1.366	2.169	20.7	20.1	5 31	13 32.12	+0 37.0	2.171	2.934	15.2	19.3
<b>263887</b>	2009 <i>FU</i>		4 22.1 354°66	3°1/23.7	17		<b>410450</b>	2008 <i>CR</i> <sub>86</sub>		4 22.1 108°38	1°8/20.7	18	
3 22	14 23.41	-18 21.5	1.161	2.040	17.6	20.0	3 22	14 25.21	-9 14.3	1.736	2.610	12.9	22.1
4 1	14 18.52	-18 45.2	1.096	2.036	13.1	19.7	4 1	14 18.68	-8 35.6	1.684	2.627	9.0	21.9
4 11	14 10.68	-18 52.1	1.051	2.032	8.0	19.4	4 11	14 10.27	-7 51.3	1.657	2.643	4.8	21.7
4 21	14 0.95	-18 42.7	1.029	2.030	3.4	19.1	4 21	14 0.90	-7 6.2	1.657	2.659	1.9	21.5
5 1	13 50.91	-18 20.8	1.030	2.028	5.3	19.2	5 1	13 51.63	-6 25.7	1.685	2.675	5.0	21.8
5 11	13 42.22	-17 53.5	1.054	2.028	10.5	19.5	5 11	13 43.46	-5 55.0	1.739	2.690	9.0	22.1
5 21	13 36.11	-17 28.6	1.099	2.028	15.4	19.8	5 21	13 37.15	-5 37.2	1.818	2.705	12.6	22.3
5 31	13 33.33	-17 12.6	1.162	2.030	19.6	20.1	5 31	13 33.13	-5 34.0	1.917	2.719	15.6	22.5
<b>89036</b>	2001 <i>TV</i> <sub>107</sub>		4 22.1 223°07	1°6/23.6	18		<b>262211</b>	2006 <i>SK</i> <sub>217</sub>		4 22.1 264°89	1°9/20.7	17	
3 22	14 23.40	-19 16.1	2.302	3.144	11.4	20.0	3 22	14 24.03	-9 41.4	1.739	2.614	12.8	21.4
4 1	14 17.35	-18 53.1	2.211	3.132	8.4	19.8	4 1	14 18.25	-8 59.7	1.650	2.594	9.1	21.2
4 11	14 9.61	-18 17.4	2.145	3.121	5.0	19.6	4 11	14 10.30	-8 9.6	1.586	2.572	4.9	20.9
4 21	14 0.84	-17 30.8	2.106	3.108	1.9	19.3	4 21	14 0.93	-7 15.9	1.548	2.551	1.9	20.6
5 1	13 51.87	-16 37.1	2.098	3.095	3.3	19.4	5 1	13 51.22	-6 24.6	1.538	2.528	5.3	20.8
5 11	13 43.60	-15 41.3	2.118	3.081	6.8	19.6	5 11	13 42.30	-5 42.1	1.554	2.505	9.8	21.0
5 21	13 36.74	-14 48.8	2.164	3.066	10.2	19.8	5 21	13 35.13	-5 13.3	1.594	2.482	14.0	21.2
5 31	13 31.83	-14 4.2	2.234	3.051	13.2	19.9	5 31	13 30.37	-5 1.3	1.654	2.459	17.6	21.4
<b>433415</b>	2013 <i>TJ</i> <sub>50</sub>		4 22.1 109°91	0°4/22.4	17		<b>61143</b>	2000 <i>ND</i> <sub>7</sub>		4 22.1 204°17	1°4/23.7	18	
3 22	14 25.52	-13 43.5	1.975	2.835	12.2	21.6	3 22	14 20.24	-19 14.1	2.702	3.542	9.9	20.1
4 1	14 18.86	-13 44.7	1.912	2.846	8.7	21.4	4 1	14 14.87	-18 50.1	2.617	3.538	7.3	20.0
4 11	14 10.38	-13 37.9	1.873	2.857	4.8	21.2	4 11	14 8.17	-18 15.5	2.558	3.533	4.4	19.8
4 21	14 0.91	-13 25.2	1.862	2.867	0.7	20.9	4 21	14 0.71	-17 32.2	2.527	3.528	1.7	19.6
5 1	13 51.40	-13 9.8	1.880	2.877	3.6	21.1	5 1	13 53.15	-16 43.3	2.526	3.523	2.8	19.6
5 11	13 42.84	-12 55.6	1.926	2.887	7.6	21.4	5 11	13 46.19	-15 53.2	2.554	3.517	5.8	19.8
5 21	13 35.96	-12 46.2	1.997	2.897	11.1	21.6	5 21	13 40.40	-15 5.9	2.609	3.511	8.7	20.0
5 31	13 31.25	-12 44.5	2.090	2.906	14.0	21.8	5 31	13 36.19	-14 25.1	2.688	3.505	11.2	20.2
<b>463832</b>	2014 <i>TN</i> <sub>61</sub>		4 22.1 139°54	3°1/24.9	16		<b>19963</b>	1986 <i>TR</i>		4 22.1 265°31	3°0/24.9	18	
3 22	14 24.07	-24 19.0	1.848	2.681	14.1	21.2	3 22	14 22.80	-23 46.4	2.217	3.045	12.3	18.8
4 1	14 17.98	-23 39.8	1.779	2.691	10.7	21.0	4 1	14 17.15	-23 24.2	2.110	3.019	9.4	18.5
4 11	14 9.95	-22 40.5	1.733	2.700	6.9	20.8	4 11	14 9.62	-22 44.9	2.027	2.993	6.2	18.3
4 21	14 0.86	-21 23.8	1.713	2.709	3.6	20.6	4 21	14 0.87	-21 49.3	1.971	2.966	3.4	18.1
5 1	13 51.79	-19 55.6	1.722	2.718	4.1	20.6	5 1	13 51.79	-20 40.9	1.944	2.938	3.9	18.0
5 11	13 43.80	-18 23.9	1.758	2.725	7.6	20.8	5 11	13 43.35	-19 25.4	1.945	2.910	7.2	18.2
5 21	13 37.65	-16 56.8	1.821	2.733	11.3	21.1	5 21	13 36.37	-18 9.5	1.972	2.881	10.7	18.3
5 31	13 33.83	-15 41.0	1.905	2.739	14.5	21.3	5 31	13 31.47	-16 59.8	2.023	2.852	14.0	18.5
<b>295683</b>	2008 <i>TP</i> <sub>111</sub>		4 22.1 205°79	1°7/23.7	17		<b>276602</b>	2003 <i>TZ</i> <sub>55</sub>		4 22.1 216°11	3°0/19.2	18	
3 22	14 23.00	-19 16.7	2.350	3.192	11.2	21.4	3 22	14 21.15	-5 6.4	2.206	3.082	10.4	21.2
4 1	14 17.01	-19 5.1	2.266	3.187	8.3	21.2	4 1	14 15.67	-4 16.0	2.133	3.077	7.4	21.0
4 11	14 9.39	-18 41.9	2.207	3.182	5.0	21.0	4 11	14 8.66	-3 23.0	2.087	3.071	4.3	20.8
4 21	14 0.82	-18 8.7	2.175	3.176	2.0	20.7	4 21	14 0.76	-2 32.2	2.069	3.065	3.1	20.7
5 1	13 52.10	-17 28.5	2.173	3.170	3.2	20.8	5 1	13 52.77	-1 48.6	2.080	3.059	5.4	20.9
5 11	13 44.09	-16 45.9	2.200	3.163	6.6	21.0	5 11	13 45.50	-1 16.4	2.118	3.052	8.6	21.0
5 21	13 37.46	-16 5.4	2.253	3.156	9.8	21.2	5 21	13 39.59	-0 58.1	2.180	3.045	11.7	21.2
5 31	13 32.72	-15 31.3	2.329	3.149	12.7	21.4	5 31	13 35.50	-0 55.1	2.263	3.038	14.3	21.4
<b>122153</b>	2000 <i>JO</i> <sub>57</sub>		4 22.1 283°92	0°5/21.7	18		<b>330055</b>	2005 <i>UH</i> <sub>388</sub>		4 22.1 342°18	3°2/20.7	17	
3 22	14 21.51</												

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>190327</b>	1998 QE <sub>85</sub>		4 22.1 189°31	0°3/22.3	18		<b>332574</b>	2008 SR <sub>53</sub>		4 22.1 229°94	0°7/21.4	18	
3 22	14 25.60	-16 14.7	1.902	2.758	12.8	20.8	3 22	14 22.05	-12 13.6	2.322	3.184	10.5	21.9
4 1	14 19.05	-15 25.2	1.825	2.757	9.2	20.5	4 1	14 16.34	-11 36.7	2.235	3.172	7.5	21.7
4 11	14 10.57	-14 22.0	1.773	2.755	5.1	20.3	4 11	14 9.06	-10 51.8	2.175	3.160	4.0	21.5
4 21	14 0.96	-13 9.3	1.748	2.753	0.7	19.9	4 21	14 0.84	-10 2.5	2.142	3.147	0.7	21.2
5 1	13 51.26	-11 53.2	1.753	2.749	3.9	20.2	5 1	13 52.45	-9 12.9	2.140	3.133	3.7	21.4
5 11	13 42.49	-10 40.7	1.786	2.745	8.2	20.4	5 11	13 44.72	-8 28.0	2.165	3.119	7.3	21.6
5 21	13 35.47	-9 38.1	1.845	2.740	12.1	20.6	5 21	13 38.30	-7 51.6	2.217	3.104	10.7	21.8
5 31	13 30.74	-8 50.0	1.925	2.733	15.3	20.9	5 31	13 33.71	-7 26.7	2.291	3.089	13.5	21.9
<b>388015</b>	2005 SB <sub>4</sub>		4 22.1 292°48	4°9/25.1	17		<b>399836</b>	2005 TU <sub>165</sub>		4 22.1 269°55	0°7/22.5	17	
3 22	14 28.98	-24 52.8	2.228	3.040	12.7	20.3	3 22	14 25.17	-16 0.0	1.402	2.274	15.5	22.2
4 1	14 21.70	-25 55.6	2.129	3.023	10.1	20.1	4 1	14 19.57	-15 33.2	1.316	2.255	11.3	21.9
4 11	14 12.19	-26 46.3	2.055	3.006	7.3	19.9	4 11	14 11.24	-14 49.9	1.251	2.236	6.4	21.5
4 21	14 1.15	-27 22.5	2.009	2.989	5.2	19.7	4 21	14 1.08	-13 53.3	1.212	2.216	1.1	21.1
5 1	13 49.57	-27 43.2	1.991	2.972	5.4	19.7	5 1	13 50.44	-12 49.7	1.198	2.196	4.9	21.3
5 11	13 38.57	-27 50.6	2.002	2.955	7.9	19.8	5 11	13 40.80	-11 47.8	1.210	2.176	10.4	21.6
5 21	13 29.15	-27 48.5	2.039	2.938	10.9	20.0	5 21	13 33.37	-10 55.9	1.244	2.156	15.4	21.8
5 31	13 22.05	-27 42.4	2.100	2.921	13.8	20.1	5 31	13 28.95	-10 20.2	1.297	2.135	19.7	22.0
<b>246851</b>	2010 GV <sub>24</sub>		4 22.1 256°55	5°4/17.4	18		<b>61955</b>	2000 RK <sub>18</sub>		4 22.1 355°94	9°7/28.7	18	
3 22	14 22.32	+ 3 4.1	2.084	2.960	10.9	19.9	3 22	14 26.79	-34 59.5	1.627	2.414	17.7	18.3
4 1	14 16.52	+ 3 45.9	2.021	2.957	8.2	19.8	4 1	14 20.78	-36 8.3	1.552	2.413	15.1	18.1
4 11	14 9.12	+ 4 22.7	1.985	2.955	6.0	19.6	4 11	14 11.91	-36 51.6	1.496	2.411	12.4	17.9
4 21	14 0.82	+ 4 49.4	1.975	2.952	5.6	19.6	4 21	14 1.16	-37 4.8	1.463	2.410	10.2	17.8
5 1	13 52.47	+ 5 1.7	1.993	2.949	7.5	19.7	5 1	13 49.97	-36 47.1	1.453	2.410	9.7	17.8
5 11	13 44.92	+ 4 57.1	2.036	2.946	10.3	19.8	5 11	13 39.93	-36 3.3	1.468	2.410	11.1	17.8
5 21	13 38.84	+ 4 35.3	2.103	2.943	13.0	20.0	5 21	13 32.28	-35 2.2	1.504	2.410	13.6	18.0
5 31	13 34.68	+ 3 57.1	2.189	2.940	15.4	20.2	5 31	13 27.82	-33 54.1	1.561	2.411	16.4	18.2
<b>454143</b>	2013 EW <sub>17</sub>		4 22.1 92°52	1°4/23.0	18		<b>512960</b>	2017 SX <sub>28</sub>		4 22.1 314°14	2°8/18.9	17	
3 22	14 26.83	-17 7.1	1.352	2.221	16.2	21.7	3 22	14 17.69	- 7 37.4	2.168	3.048	10.4	21.2
4 1	14 20.39	-16 54.2	1.297	2.233	11.8	21.4	4 1	14 13.25	- 6 10.1	2.099	3.045	7.3	21.0
4 11	14 11.43	-16 25.6	1.263	2.245	6.7	21.2	4 11	14 7.37	- 4 36.9	2.056	3.042	4.1	20.8
4 21	14 1.05	-15 44.4	1.254	2.257	1.8	20.9	4 21	14 0.68	- 3 4.1	2.042	3.039	2.9	20.7
5 1	13 50.69	-14 56.7	1.270	2.269	4.6	21.1	5 1	13 53.94	- 1 38.3	2.057	3.036	5.4	20.8
5 11	13 41.74	-14 10.2	1.312	2.280	9.6	21.4	5 11	13 47.92	- 0 25.6	2.099	3.034	8.7	21.0
5 21	13 35.18	-13 31.7	1.377	2.292	14.0	21.7	5 21	13 43.20	+ 0 30.4	2.166	3.031	11.8	21.2
5 31	13 31.56	-13 6.3	1.462	2.303	17.8	22.0	5 31	13 40.21	+ 1 7.5	2.254	3.028	14.4	21.4
<b>93215</b>	2000 SL <sub>128</sub>		4 22.1 283°52	2°5/19.9	18		<b>215313</b>	2001 SR <sub>306</sub>		4 22.1 229°62	3°2/24.9	17	
3 22	14 21.12	- 8 36.1	1.771	2.652	12.3	19.5	3 22	14 23.11	-22 58.5	2.325	3.153	11.8	21.0
4 1	14 16.11	- 7 38.9	1.685	2.632	8.7	19.2	4 1	14 17.20	-23 10.2	2.240	3.149	9.0	20.8
4 11	14 9.10	- 6 33.7	1.624	2.611	4.8	18.9	4 11	14 9.58	-23 8.7	2.180	3.144	6.0	20.7
4 21	14 0.83	- 5 26.0	1.590	2.591	2.5	18.7	4 21	14 0.92	-22 54.3	2.147	3.139	3.5	20.5
5 1	13 52.29	- 4 22.8	1.583	2.570	5.7	18.9	5 1	13 52.07	-22 29.1	2.142	3.134	3.9	20.5
5 11	13 44.52	- 3 30.8	1.602	2.550	9.9	19.1	5 11	13 43.92	-21 57.0	2.165	3.128	6.7	20.7
5 21	13 38.39	- 2 54.7	1.645	2.529	13.9	19.3	5 21	13 37.21	-21 22.7	2.214	3.123	9.7	20.8
5 31	13 34.51	- 2 37.4	1.707	2.508	17.3	19.5	5 31	13 32.45	-20 51.0	2.287	3.117	12.5	21.0
<b>171543</b>	1999 RM <sub>134</sub>		4 22.1 228°60	2°9/24.3	18		<b>498760</b>	2008 UQ <sub>23</sub>		4 22.1 260°28	1°2/21.2	17	
3 22	14 24.72	-21 36.5	1.742	2.587	14.3	20.3	3 22	14 22.25	-10 41.1	1.898	2.771	12.0	21.5
4 1	14 18.75	-21 24.7	1.659	2.580	10.8	20.0	4 1	14 16.73	-10 11.9	1.822	2.765	8.5	21.3
4 11	14 10.56	-20 55.2	1.599	2.572	6.8	19.8	4 11	14 9.36	- 9 35.5	1.772	2.758	4.5	21.0
4 21	14 0.98	-20 9.4	1.565	2.564	3.3	19.5	4 21	14 0.90	- 8 55.8	1.748	2.752	1.2	20.8
5 1	13 51.15	-19 11.6	1.559	2.555	4.3	19.6	5 1	13 52.28	- 8 17.7	1.752	2.745	4.4	21.0
5 11	13 42.29	-18 8.6	1.579	2.546	8.3	19.8	5 11	13 44.50	- 7 46.1	1.783	2.739	8.5	21.2
5 21	13 35.32	-17 8.0	1.624	2.537	12.4	20.0	5 21	13 38.31	- 7 25.1	1.838	2.732	12.2	21.4
5 31	13 30.89	-16 16.2	1.690	2.527	15.9	20.2	5 31	13 34.26	- 7 17.1	1.915	2.725	15.3	21.6
<b>334769</b>	2003 ST <sub>79</sub>		4 22.1 202°27	3°3/25.2	18		<b>427988</b>	2006 AJ <sub>52</sub>		4 22.1 90°61	7°3/15.8	17	
3 22	14 23.62	-23 58.8	2.394	3.215	11.7	21.7	3 22	14 22.41	+ 5 56.3	1.810	2.690	12.2	21.6
4 1	14 17.50	-24 1.2	2.307	3.211	9.0	21.6	4 1	14 16.65	+ 7 9.6	1.768	2.701	9.4	21.4
4 11	14 9.70	-23 49.5	2.246	3.207	6.1	21.4	4 11	14 9.20	+ 8 14.5	1.751	2.711	7.5	21.3
4 21	14 0.89	-23 24.1	2.212	3.202	3.6	21.2	4 21	14 0.87	+ 9 3.8	1.760	2.722	7.6	21.3
5 1	13 51.92	-22 47.4	2.206	3.197	3.9	21.2	5 1	13 52.63	+ 9 32.2	1.794	2.733	9.5	21.5
5 11	13 43.66	-22 3.9	2.229	3.192	6.6	21.4	5 11	13 45.40	+ 9 37.3	1.853	2.743	12.1	21.7
5 21	13 36.82	-21 18.4	2.279	3.186	9.6	21.5	5 21	13 39.84	+ 9 19.7	1.933	2.753	14.8	21.9
5 31	13 31.92	-20 36.0	2.352	3.179	12.3	21.7	5 31	13 36.39	+ 8 41.7	2.031	2.764	17.0	22.0
<b>483345</b>	2016 QA <sub>78</sub>		4 22.1 243°64	2°9/25.3	17		<b>475473</b>	2006 SD <sub>117</sub>		4 22.1 279°17	0°5/22.5	16	
3 22	14 20.43	-24 19.9	2.633	3.453	10.8	21.5	3 22	14 22.10	-14 33.3	2.168	3.028	11.3	22.1
4 1	14 15.15	-24 4.4	2.537	3.441	8.3	21.3	4 1	14 16.54	-14 26.2	2.080	3.014	8.1	21.9
4 11	14 8.40	-23 34.9	2.466	3.428	5.6	21.1	4 11	14 9.26	-14 10.6	2.017	3.000	4.5	21.6
4 21	14 0.76	-22 52.4	2.423	3.414	3.2	20.9	4 21	14 0.90	-13 48.5	1.981	2.985	0.8	21.3
5 1	13 52.96	-21 59.6	2.408	3.401	3.5	20.9	5 1	13 52.30	-13 23.1	1.974	2.971	3.4	21.5
5 11	13 45.76	-21 0.9	2.423	3.387	6.0	21.0	5 11	13 44.38	-12 58.5	1.995	2.957	7.3	21.7
5 21	13 39.78	-20 1.4	2.464	3.372	8.9	21.2	5 21	13 37.87	-12 38.7	2.041	2.943	10.8	21.9
5 31	13 35.50	-19 5.9	2.529	3.358	11.5	21.4	5 31	13 33.32	-12 26.9	2.110	2.928	13.8	22.0
<b>57196</b>	2001 QS <sub>42</sub>		4 22.1 148°14	2°1/23.9	18		<b>658</b>	Asteria		4 22.1 158°62	0°5/22.6	18	
3 22	14 25.17	-20 8.3	2.126	2.965									

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>213303</b>	2001 <i>QM</i> <sub>328</sub>		4 22.1 102°26	2°6/19.4	17		<b>201780</b>	2003 <i>WJ</i> <sub>105</sub>		4 22.1 182°64	0°1/22.0	18	
3 22	14 20.15	- 5 43.9	2.356	3.231	9.9	20.3	3 22	14 22.02	-13 27.9	2.329	3.189	10.6	20.9
4 1	14 14.78	- 4 52.9	2.303	3.246	6.9	20.1	4 1	14 16.27	-13 3.5	2.254	3.189	7.5	20.7
4 11	14 8.11	- 4 0.1	2.276	3.261	4.0	19.9	4 11	14 9.02	-12 31.4	2.205	3.189	4.1	20.5
4 21	14 0.77	- 3 9.8	2.278	3.275	2.7	19.8	4 21	14 0.91	-11 54.4	2.184	3.189	0.4	20.2
5 1	13 53.49	- 2 26.3	2.309	3.289	4.9	20.0	5 1	13 52.71	-11 16.2	2.193	3.188	3.3	20.5
5 11	13 46.95	- 1 53.4	2.368	3.303	7.8	20.2	5 11	13 45.24	-10 41.0	2.230	3.187	6.9	20.7
5 21	13 41.69	- 1 33.2	2.451	3.317	10.5	20.4	5 21	13 39.10	-10 12.6	2.292	3.186	10.1	20.9
5 31	13 38.10	- 1 26.7	2.556	3.331	12.9	20.6	5 31	13 34.77	- 9 53.7	2.378	3.184	12.8	21.1
<b>86075</b>	1999 <i>RJ</i> <sub>58</sub>		4 22.1 286°55	3°7/19.2	17		<b>151162</b>	2001 <i>XJ</i> <sub>137</sub>		4 22.1 213°44	1°5/20.9	17	
3 22	14 21.64	- 7 4.0	1.456	2.346	13.9	19.4	3 22	14 22.97	-10 2.1	1.993	2.864	11.6	20.7
4 1	14 16.74	- 5 51.0	1.383	2.333	9.9	19.1	4 1	14 17.16	- 9 24.1	1.918	2.860	8.2	20.5
4 11	14 9.55	- 4 30.0	1.333	2.320	5.7	18.8	4 11	14 9.59	- 8 39.3	1.868	2.854	4.4	20.2
4 21	14 0.94	- 3 9.0	1.309	2.307	3.8	18.7	4 21	14 0.97	- 7 52.0	1.846	2.849	1.5	20.0
5 1	13 52.09	- 1 56.9	1.311	2.294	7.2	18.8	5 1	13 52.23	- 7 7.1	1.852	2.843	4.5	20.2
5 11	13 44.25	- 1 1.8	1.337	2.282	11.8	19.0	5 11	13 44.29	- 6 29.8	1.885	2.836	8.4	20.4
5 21	13 38.38	- 0 28.5	1.385	2.269	16.0	19.3	5 21	13 37.91	- 6 3.9	1.943	2.830	12.0	20.6
5 31	13 35.11	- 0 19.0	1.450	2.256	19.6	19.5	5 31	13 33.58	- 5 51.7	2.023	2.823	15.0	20.8
<b>503548</b>	2016 <i>FW</i> <sub>36</sub>		4 22.1 246°10	0°5/21.7	17		<b>204519</b>	2005 <i>EE</i> <sub>28</sub>		4 22.1 182°93	2°3/24.1	18	
3 22	14 24.32	-12 35.4	1.913	2.779	12.3	21.6	3 22	14 25.34	-19 57.8	2.417	3.250	11.2	20.5
4 1	14 18.31	-12 6.8	1.826	2.764	8.8	21.3	4 1	14 18.68	-20 12.7	2.336	3.251	8.4	20.3
4 11	14 10.30	-11 28.9	1.763	2.748	4.7	21.0	4 11	14 10.37	-20 16.9	2.280	3.251	5.3	20.1
4 21	14 1.03	-10 45.1	1.727	2.732	0.6	20.7	4 21	14 1.05	-20 10.8	2.253	3.250	2.6	19.9
5 1	13 51.48	-10 0.1	1.720	2.715	4.2	20.9	5 1	13 51.58	-19 56.5	2.255	3.250	3.4	20.0
5 11	13 42.71	- 9 19.5	1.740	2.697	8.5	21.1	5 11	13 42.82	-19 37.4	2.286	3.248	6.5	20.1
5 21	13 35.57	- 8 48.2	1.785	2.679	12.4	21.3	5 21	13 35.47	-19 17.4	2.344	3.247	9.5	20.3
5 31	13 30.68	- 8 29.6	1.851	2.661	15.8	21.5	5 31	13 30.04	-19 0.4	2.426	3.245	12.2	20.5
<b>302869</b>	2003 <i>HT</i> <sub>11</sub>		4 22.1 342°88	1°7/20.9	17		<b>437638</b>	2014 <i>BD</i> <sub>37</sub>		4 22.1 66°22	4°2/17.7	17	
3 22	14 21.76	- 7 53.0	1.839	2.719	12.0	19.5	3 22	14 19.02	- 1 48.8	2.134	3.017	10.5	20.8
4 1	14 16.44	- 7 45.9	1.766	2.711	8.5	19.3	4 1	14 14.17	- 0 40.9	2.077	3.021	7.5	20.6
4 11	14 9.24	- 7 35.5	1.717	2.704	4.6	19.0	4 11	14 7.87	+ 0 26.6	2.046	3.025	4.9	20.5
4 21	14 0.92	- 7 25.0	1.695	2.698	1.7	18.8	4 21	14 0.79	+ 1 28.1	2.042	3.029	4.4	20.4
5 1	13 52.43	- 7 18.0	1.700	2.692	4.7	19.0	5 1	13 53.70	+ 2 18.1	2.066	3.033	6.5	20.6
5 11	13 44.76	- 7 18.3	1.731	2.687	8.7	19.2	5 11	13 47.37	+ 2 52.6	2.116	3.037	9.4	20.8
5 21	13 38.71	- 7 28.2	1.787	2.682	12.4	19.4	5 21	13 42.40	+ 3 9.8	2.190	3.041	12.2	20.9
5 31	13 34.83	- 7 49.3	1.863	2.678	15.5	19.6	5 31	13 39.19	+ 3 9.4	2.284	3.045	14.6	21.1
<b>466821</b>	2015 <i>BL</i> <sub>159</sub>		4 22.1 296°40	7°2/15.2	17		<b>505552</b>	2013 <i>YW</i> <sub>144</sub>		4 22.1 110°01	0°9/21.4	17	
3 22	14 19.70	+ 2 37.3	1.671	2.561	12.5	20.4	3 22	14 22.68	-10 30.9	2.040	2.910	11.5	21.8
4 1	14 15.14	+ 4 19.5	1.600	2.542	9.5	20.2	4 1	14 16.88	-10 13.6	1.972	2.912	8.1	21.6
4 11	14 8.61	+ 6 0.1	1.554	2.523	7.4	20.0	4 11	14 9.40	- 9 50.5	1.929	2.915	4.3	21.3
4 21	14 0.86	+ 7 29.7	1.534	2.505	7.7	20.0	4 21	14 0.96	- 9 24.9	1.914	2.918	0.9	21.1
5 1	13 52.90	+ 8 39.4	1.540	2.486	10.1	20.1	5 1	13 52.45	- 9 0.6	1.927	2.920	4.0	21.3
5 11	13 45.78	+ 9 23.1	1.569	2.468	13.4	20.2	5 11	13 44.76	- 8 41.7	1.967	2.923	7.8	21.6
5 21	13 40.32	+ 9 38.8	1.618	2.450	16.7	20.4	5 21	13 38.60	- 8 31.1	2.033	2.926	11.2	21.8
5 31	13 37.12	+ 9 27.3	1.685	2.432	19.5	20.5	5 31	13 34.44	- 8 31.2	2.120	2.928	14.1	22.0
<b>499099</b>	2009 <i>FG</i> <sub>70</sub>		4 22.1 28°72	0°3/21.9	17		<b>259295</b>	2003 <i>EU</i> <sub>39</sub>		4 22.1 21°41	9°2/16.2	16	
3 22	14 23.07	-13 0.6	1.138	2.029	16.9	20.9	3 22	14 23.41	+ 7 47.5	1.361	2.249	14.8	19.6
4 1	14 18.01	-12 42.9	1.088	2.038	12.0	20.7	4 1	14 17.82	+ 8 46.4	1.320	2.255	11.7	19.4
4 11	14 10.27	-12 12.9	1.059	2.048	6.5	20.4	4 11	14 10.01	+ 9 31.9	1.300	2.261	9.5	19.3
4 21	14 1.02	-11 35.7	1.054	2.059	0.6	20.0	4 21	14 1.02	+ 9 56.1	1.304	2.268	9.5	19.3
5 1	13 51.80	-10 58.0	1.072	2.070	5.3	20.4	5 1	13 52.11	+ 9 53.2	1.331	2.275	11.6	19.4
5 11	13 44.06	-10 27.6	1.114	2.083	10.7	20.7	5 11	13 44.50	+ 9 21.9	1.380	2.284	14.6	19.6
5 21	13 38.82	-10 9.9	1.176	2.096	15.5	21.0	5 21	13 39.03	+ 8 24.9	1.449	2.293	17.7	19.8
5 31	13 36.63	-10 8.1	1.257	2.110	19.4	21.3	5 31	13 36.18	+ 7 6.5	1.535	2.302	20.3	20.1
<b>365841</b>	2011 <i>US</i> <sub>58</sub>		4 22.1 87°01	2°5/20.1	18		<b>429701</b>	2011 <i>HO</i> <sub>74</sub>		4 22.1 55°63	2°3/20.5	17	
3 22	14 24.08	-10 19.0	1.403	2.287	14.7	21.4	3 22	14 23.67	- 7 31.2	1.631	2.513	13.2	20.6
4 1	14 18.17	- 8 59.1	1.358	2.306	10.3	21.1	4 1	14 17.76	- 7 5.2	1.580	2.526	9.2	20.4
4 11	14 10.12	- 7 30.4	1.337	2.324	5.5	20.9	4 11	14 9.90	- 6 35.4	1.552	2.539	5.0	20.2
4 21	14 1.00	- 6 1.0	1.341	2.343	2.6	20.8	4 21	14 1.01	- 6 6.5	1.551	2.553	2.3	20.0
5 1	13 52.06	- 4 40.2	1.372	2.361	6.2	21.0	5 1	13 52.17	- 5 43.5	1.576	2.566	5.4	20.3
5 11	13 44.45	- 3 35.9	1.429	2.379	10.6	21.3	5 11	13 44.44	- 5 30.6	1.628	2.580	9.4	20.5
5 21	13 38.98	- 2 52.3	1.508	2.397	14.6	21.6	5 21	13 38.58	- 5 30.5	1.703	2.594	13.1	20.8
5 31	13 36.07	- 2 31.0	1.605	2.414	17.9	21.9	5 31	13 35.07	- 5 44.1	1.798	2.608	16.2	21.0
<b>171664</b>	2000 <i>KW</i>		4 22.1 261°72	0°4/21.8	17		<b>441550</b>	2008 <i>TT</i> <sub>69</sub>		4 22.1 130°55	1°1/20.6	17	
3 22	14 21.35	-12 27.5	2.141	3.008	11.1	20.5	3 22	14 16.61	- 9 6.4	3.404	4.269	7.4	21.7
4 1	14 15.95	-12 5.1	2.062	3.001	7.9	20.3	4 1	14 12.07	- 8 35.4	3.336	4.276	5.2	21.6
4 11	14 8.91	-11 35.2	2.008	2.994	4.2	20.1	4 11	14 6.62	- 8 1.5	3.297	4.282	2.8	21.4
4 21	14 0.89	-11 0.7	1.982	2.987	0.5	19.8	4 21	14 0.67	- 7 26.9	3.286	4.289	1.1	21.3
5 1	13 52.73	-10 25.6	1.985	2.980	3.7	20.0	5 1	13 54.72	- 6 54.4	3.306	4.295	2.9	21.5
5 11	13 45.30	- 9 54.5	2.015	2.973	7.5	20.2	5 11	13 49.22	- 6 26.6	3.354	4.301	5.3	21.6
5 21	13 39.28	- 9 31.0	2.070	2.966	10.9	20.4	5 21	13 44.57	- 6 5.5	3.430	4.307	7.5	21.8
5 31	13 35.17	- 9 18.0	2.147	2.958	13.8	20.6	5 31	13 41.08	- 5 52.4	3.529	4.312	9.5	21.9
<b>274157</b>	2008 <i>FS</i> <sub>103</sub>		4 22.1 294°82	3°6/19.5	17		<b>297776</b>	2001 <i>XY</i> <sub>219</sub>		4 22.1 143°			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>246549</b>	2008 SA <sub>42</sub>		4 22.1 99°88	3°8/18.2	18		<b>18441</b>	Cittadivinci		4 22.1 271°51	4°7/26.8	18	
3 22	14 21.05	- 4 2.9	2.075	2.954	10.9	20.4	3 22	14 21.55	-28 29.6	2.332	3.137	12.5	19.2
4 1	14 15.52	- 2 42.2	2.030	2.974	7.7	20.3	4 1	14 16.22	-28 35.8	2.241	3.128	10.0	19.0
4 11	14 8.55	- 1 20.7	2.011	2.993	4.7	20.1	4 11	14 9.14	-28 24.8	2.173	3.118	7.3	18.8
4 21	14 0.87	- 0 4.4	2.021	3.011	3.9	20.1	4 21	14 1.00	-27 56.3	2.131	3.109	5.2	18.6
5 1	13 53.29	+ 1 0.4	2.059	3.029	6.2	20.3	5 1	13 52.64	-27 12.5	2.117	3.100	5.0	18.6
5 11	13 46.60	+ 1 49.5	2.123	3.047	9.2	20.5	5 11	13 45.00	-26 17.7	2.130	3.090	7.0	18.7
5 21	13 41.36	+ 2 20.7	2.212	3.065	12.0	20.7	5 21	13 38.80	-25 17.9	2.169	3.081	9.7	18.9
5 31	13 37.96	+ 2 33.6	2.321	3.082	14.4	20.9	5 31	13 34.60	-24 19.0	2.231	3.071	12.4	19.0
<b>206980</b>	2004 TM <sub>117</sub>		4 22.1 142°71	1°9/20.6	18		<b>504429</b>	2008 AJ <sub>56</sub>		4 22.1 179°04	4°3/17.3	18	
3 22	14 25.74	- 9 53.6	1.767	2.639	12.8	21.6	3 22	14 19.86	+ 0 59.4	2.595	3.469	9.1	22.0
4 1	14 19.13	- 9 1.4	1.709	2.651	9.0	21.4	4 1	14 14.58	+ 1 55.4	2.534	3.470	6.7	21.8
4 11	14 10.62	- 8 2.2	1.675	2.662	4.8	21.2	4 11	14 8.07	+ 2 49.0	2.499	3.471	4.7	21.7
4 21	14 1.09	- 7 1.2	1.669	2.672	1.9	21.0	4 21	14 0.88	+ 3 35.8	2.493	3.471	4.4	21.7
5 1	13 51.60	- 6 4.8	1.692	2.682	5.1	21.2	5 1	13 53.66	+ 4 11.7	2.515	3.471	6.1	21.8
5 11	13 43.19	- 5 18.9	1.742	2.690	9.2	21.5	5 11	13 47.06	+ 4 33.8	2.564	3.471	8.6	21.9
5 21	13 36.60	+ 4 47.3	1.815	2.699	12.8	21.7	5 21	13 41.62	+ 4 41.0	2.638	3.470	10.9	22.1
5 31	13 32.33	- 4 32.0	1.910	2.706	15.9	21.9	5 31	13 37.70	+ 4 33.1	2.732	3.469	13.0	22.2
<b>505073</b>	2011 SV <sub>234</sub>		4 22.1 147°12	0°3/21.8	17		<b>498516</b>	2008 EW <sub>10</sub>		4 22.1 87°45	4°0/19.1	17	
3 22	14 21.80	-11 53.9	2.541	3.401	9.8	21.4	3 22	14 23.61	- 4 22.6	1.576	2.462	13.3	21.4
4 1	14 16.00	-11 42.9	2.470	3.405	6.9	21.2	4 1	14 17.80	- 3 28.3	1.523	2.470	9.4	21.2
4 11	14 8.84	-11 26.4	2.425	3.410	3.7	21.0	4 11	14 9.98	- 2 32.5	1.493	2.478	5.6	21.0
4 21	14 0.91	-11 6.7	2.409	3.414	0.4	20.8	4 21	14 1.07	- 1 41.5	1.490	2.486	4.1	20.9
5 1	13 52.93	-10 46.7	2.423	3.418	3.2	21.0	5 1	13 52.19	- 1 2.1	1.514	2.494	6.9	21.1
5 11	13 45.61	-10 29.5	2.465	3.422	6.4	21.2	5 11	13 44.43	- 0 38.9	1.562	2.502	10.8	21.3
5 21	13 39.52	-10 18.0	2.534	3.425	9.3	21.4	5 21	13 38.57	- 0 34.2	1.634	2.510	14.4	21.6
5 31	13 35.09	-10 14.1	2.626	3.429	11.8	21.6	5 31	13 35.11	- 0 48.1	1.724	2.517	17.4	21.8
<b>117074</b>	2004 KS <sub>14</sub>		4 22.1 346°96	8°3/14.2	18		<b>90914</b>	1997 HQ <sub>11</sub>		4 22.1 275°61	1°1/23.3	17	
3 22	14 20.84	+11 13.0	1.999	2.869	11.7	19.0	3 22	14 19.21	-17 59.4	2.420	3.271	10.6	19.6
4 1	14 15.57	+12 16.3	1.949	2.866	9.6	18.9	4 1	14 14.38	-17 30.3	2.330	3.258	7.7	19.4
4 11	14 8.68	+13 7.7	1.923	2.864	8.4	18.8	4 11	14 8.08	-16 50.0	2.266	3.245	4.5	19.1
4 21	14 0.91	+13 41.0	1.922	2.861	8.7	18.8	4 21	14 0.89	-16 0.7	2.228	3.231	1.4	18.9
5 1	13 53.12	+13 51.7	1.946	2.859	10.3	18.9	5 1	13 53.54	-15 6.3	2.220	3.218	3.0	19.0
5 11	13 46.19	+13 38.2	1.993	2.858	12.6	19.0	5 11	13 46.81	-14 11.5	2.241	3.205	6.4	19.2
5 21	13 40.76	+13 1.6	2.061	2.856	14.8	19.2	5 21	13 41.31	-13 21.1	2.287	3.191	9.7	19.3
5 31	13 37.28	+12 4.5	2.147	2.855	16.9	19.3	5 31	13 37.53	-12 39.1	2.357	3.178	12.5	19.5
<b>2242</b>	Balaton		4 22.1 122°36	1°4/23.1	18		<b>380330</b>	2002 OF <sub>12</sub>		4 22.1 326°09	15°8/11.8	18	
3 22	14 27.47	-17 21.4	1.473	2.335	15.5	16.8	3 22	14 29.81	-58 39.6	2.001	2.591	20.3	20.0
4 1	14 20.77	-17 5.8	1.413	2.346	11.2	16.6	4 1	14 23.78	-59 48.4	1.917	2.583	19.3	19.9
4 11	14 11.67	-16 35.0	1.376	2.357	6.5	16.3	4 11	14 13.93	-60 22.7	1.845	2.575	18.1	19.7
4 21	14 1.22	-15 52.0	1.364	2.367	1.8	16.1	4 21	14 1.52	-60 15.4	1.788	2.568	17.0	19.6
5 1	13 50.76	-15 2.5	1.379	2.377	4.4	16.3	5 1	13 48.62	-59 22.4	1.748	2.561	16.2	19.5
5 11	13 41.61	-14 13.7	1.420	2.387	9.1	16.6	5 11	13 37.49	-57 46.2	1.726	2.554	15.8	19.5
5 21	13 34.71	-13 32.5	1.485	2.396	13.5	16.8	5 21	13 29.74	-55 34.8	1.723	2.548	16.1	19.5
5 31	13 30.61	-13 3.6	1.570	2.404	17.1	17.1	5 31	13 26.16	-53 0.0	1.740	2.542	17.0	19.5
<b>221712</b>	Moleson		4 22.1 81°89	2°8/19.8	18		<b>463729</b>	2014 QX <sub>322</sub>		4 22.1 224°52	2°2/20.3	16	
3 22	14 23.22	- 7 18.5	1.717	2.598	12.7	21.0	3 22	14 24.25	- 9 33.1	1.745	2.620	12.8	22.5
4 1	14 17.27	- 6 20.0	1.673	2.619	8.8	20.8	4 1	14 18.33	- 8 34.8	1.668	2.611	9.0	22.2
4 11	14 9.57	- 5 17.8	1.654	2.640	4.9	20.6	4 11	14 10.36	- 7 28.0	1.615	2.602	4.9	21.9
4 21	14 0.99	- 4 17.7	1.661	2.661	2.9	20.5	4 21	14 1.14	- 6 18.4	1.590	2.592	2.2	21.7
5 1	13 52.57	- 3 26.2	1.696	2.681	5.7	20.7	5 1	13 51.73	- 5 12.7	1.592	2.581	5.5	21.9
5 11	13 45.24	- 2 48.3	1.758	2.701	9.5	21.0	5 11	13 43.23	- 4 18.0	1.621	2.569	9.8	22.1
5 21	13 39.70	- 2 26.6	1.843	2.722	12.9	21.3	5 21	13 36.49	- 3 39.0	1.674	2.557	13.7	22.3
5 31	13 36.34	- 2 22.0	1.947	2.741	15.7	21.5	5 31	13 32.11	- 3 18.4	1.747	2.545	17.1	22.5
<b>232347</b>	2002 VQ <sub>40</sub>		4 22.1 180°86	4°1/18.9	18		<b>329311</b>	2000 SW <sub>89</sub>		4 22.1 175°89	3°5/25.9	17	
3 22	14 25.80	- 4 50.1	1.676	2.556	13.0	21.0	3 22	14 23.01	-26 43.0	2.305	3.117	12.4	20.4
4 1	14 19.34	- 3 39.3	1.613	2.557	9.2	20.8	4 1	14 17.09	-26 10.1	2.222	3.119	9.6	20.2
4 11	14 10.82	- 2 25.1	1.575	2.558	5.5	20.6	4 11	14 9.53	-25 18.9	2.164	3.121	6.6	20.0
4 21	14 1.14	- 1 14.5	1.564	2.559	4.2	20.5	4 21	14 1.04	-24 10.9	2.133	3.122	4.0	19.9
5 1	13 51.41	- 0 15.1	1.581	2.558	7.0	20.7	5 1	13 52.51	-22 50.4	2.132	3.123	4.0	19.9
5 11	13 42.74	+ 0 27.4	1.624	2.556	10.9	20.9	5 11	13 44.82	-21 23.5	2.159	3.123	6.6	20.0
5 21	13 35.94	+ 0 49.8	1.690	2.554	14.6	21.1	5 21	13 38.63	-19 57.1	2.213	3.123	9.7	20.2
5 31	13 31.55	+ 0 51.6	1.774	2.551	17.6	21.3	5 31	13 34.42	-18 37.5	2.291	3.122	12.5	20.4
<b>185485</b>	2007 EL <sub>68</sub>		4 22.1 222°29	0°2/22.4	18		<b>313085</b>	2000 TB <sub>45</sub>		4 22.1 207°74	1°6/20.8	17	
3 22	14 14.15	-14 5.4	4.478	5.329	6.1	21.0	3 22	14 26.31	- 9 17.9	2.060	2.925	11.6	22.4
4 1	14 10.23	-13 50.4	4.397	5.328	4.3	20.8	4 1	14 19.54	- 8 43.0	1.980	2.918	8.2	22.2
4 11	14 5.62	-13 31.3	4.344	5.326	2.4	20.7	4 11	14 10.93	- 8 2.0	1.925	2.910	4.4	21.9
4 21	14 0.61	-13 9.4	4.321	5.325	0.3	20.5	4 21	14 1.20	- 7 18.9	1.899	2.901	1.6	21.7
5 1	13 55.56	-12 46.6	4.327	5.324	1.8	20.6	5 1	13 51.30	- 6 38.4	1.902	2.892	4.6	21.9
5 11	13 50.83	-12 24.7	4.364	5.322	3.8	20.8	5 11	13 42.21	- 6 5.4	1.933	2.881	8.5	22.1
5 21	13 46.72	-12 5.4	4.428	5.321	5.6	20.9	5 21	13 34.69	- 5 43.4	1.990	2.869	12.1	22.3
5 31	13 43.48	-11 50.2	4.517	5.319	7.3	21.0	5 31	13 29.29	- 5 34.9	2.068	2.857	15.1	22.5
<b>442438</b>	2011 UC <sub>158</sub>		4 22.1 260°40	5°5/29.5	18		<b>55275</b>	2001 SX <sub>9</sub>		4 22.1 345°43	0°5/21.8	18	
3 22	14 20.84	-35 41.7	2.528	3.289	12.8	2							

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4 22.1

4 22.2

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>219597</b>	2001 <i>TJ</i> <sub>44</sub>		4 22.1 243°12	4.4/25.7	18		<b>383812</b>	2008 <i>AV</i> <sub>71</sub>		4 22.2 44°50	8°6/13.9	18	
3 22	14 25.38	-25 57.0	2.097	2.914	13.3	19.6	3 22	14 20.07	+10 25.8	1.842	2.718	12.2	20.0
4 1	14 19.15	-26 7.8	2.002	2.900	10.4	19.4	4 1	14 14.98	+11 49.2	1.815	2.737	10.0	19.9
4 11	14 10.85	-26 1.4	1.930	2.885	7.4	19.2	4 11	14 8.34	+12 59.2	1.813	2.756	8.7	19.9
4 21	14 1.21	-25 37.5	1.884	2.870	4.8	19.0	4 21	14 0.95	+13 49.1	1.836	2.776	9.0	19.9
5 1	13 51.23	-24 57.9	1.866	2.854	4.9	18.9	5 1	13 53.71	+14 14.3	1.883	2.796	10.7	20.1
5 11	13 42.00	-24 7.5	1.875	2.837	7.6	19.1	5 11	13 47.46	+14 13.6	1.953	2.816	12.8	20.3
5 21	13 34.41	-23 12.6	1.910	2.820	11.0	19.2	5 21	13 42.80	+13 48.6	2.043	2.837	15.0	20.4
5 31	13 29.11	-22 19.8	1.968	2.803	14.1	19.4	5 31	13 40.11	+13 2.6	2.151	2.858	16.9	20.6
<b>124864</b>	2001 <i>TH</i> <sub>29</sub>		4 22.1 178°34	1°2/23.2	18		<b>416110</b>	2002 <i>PJ</i> <sub>173</sub>		4 22.2 196°99	1°1/21.2	17	
3 22	14 23.00	-17 49.4	1.847	2.704	13.1	19.8	3 22	14 23.60	-11 50.6	1.944	2.812	12.0	22.1
4 1	14 17.35	-17 22.9	1.774	2.705	9.5	19.5	4 1	14 17.67	-11 2.0	1.870	2.810	8.5	21.9
4 11	14 9.78	-16 42.8	1.725	2.705	5.5	19.3	4 11	14 9.93	-10 4.4	1.821	2.807	4.5	21.6
4 21	14 1.09	-15 51.9	1.702	2.705	1.6	19.0	4 21	14 1.14	-9 2.4	1.799	2.803	1.1	21.4
5 1	13 52.30	-14 55.2	1.707	2.705	3.7	19.2	5 1	13 52.23	-8 1.6	1.807	2.799	4.4	21.6
5 11	13 44.43	-13 59.0	1.740	2.705	7.8	19.4	5 11	13 44.19	-7 8.1	1.841	2.794	8.4	21.8
5 21	13 38.28	-13 9.3	1.797	2.705	11.7	19.6	5 21	13 37.75	-6 26.4	1.901	2.789	12.1	22.1
5 31	13 34.38	-12 30.7	1.876	2.704	14.9	19.9	5 31	13 33.45	-5 59.7	1.982	2.783	15.2	22.2
<b>294950</b>	2008 <i>DV</i> <sub>69</sub>		4 22.1 182°40	3°3/18.5	18		<b>204137</b>	2003 <i>YV</i> <sub>40</sub>		4 22.2 69°47	1°3/23.3	17	
3 22	14 18.74	-3 25.7	2.370	3.249	9.7	20.8	3 22	14 21.62	-17 36.7	2.016	2.871	12.2	20.7
4 1	14 13.92	-2 29.7	2.305	3.249	6.9	20.6	4 1	14 16.23	-17 19.8	1.946	2.875	8.9	20.5
4 11	14 7.77	-1 32.9	2.267	3.249	4.3	20.4	4 11	14 9.13	-16 51.0	1.900	2.880	5.2	20.3
4 21	14 0.88	-0 39.9	2.257	3.249	3.5	20.4	4 21	14 1.05	-16 12.9	1.881	2.884	1.6	20.1
5 1	13 53.94	+0 4.7	2.276	3.249	5.5	20.5	5 1	13 52.90	-15 29.5	1.890	2.888	3.4	20.2
5 11	13 47.67	+0 37.1	2.321	3.249	8.3	20.7	5 11	13 45.59	-14 46.0	1.927	2.892	7.2	20.5
5 21	13 42.62	+0 55.2	2.391	3.249	11.1	20.8	5 21	13 39.83	-14 7.4	1.988	2.897	10.7	20.7
5 31	13 39.19	+0 58.2	2.482	3.249	13.4	21.0	5 31	13 36.11	-13 37.6	2.072	2.901	13.7	20.9
<b>164732</b>	1998 <i>RE</i> <sub>69</sub>		4 22.1 277°10	2°3/20.0	17		<b>213099</b>	1999 <i>VZ</i> <sub>179</sub>		4 22.2 199°04	12°6/16.8	18	
3 22	14 20.59	-8 44.2	1.994	2.871	11.4	20.3	3 22	14 38.28	+15 24.8	1.280	2.135	17.8	20.1
4 1	14 15.61	-7 46.1	1.907	2.851	8.0	20.0	4 1	14 28.74	+16 3.3	1.227	2.133	15.0	19.9
4 11	14 8.86	-6 40.6	1.844	2.831	4.4	19.8	4 11	14 16.13	+16 17.7	1.195	2.131	12.9	19.8
4 21	14 1.00	-5 32.8	1.810	2.811	2.3	19.6	4 21	14 1.79	+15 58.3	1.187	2.128	12.7	19.8
5 1	13 52.91	-4 28.8	1.803	2.790	5.2	19.7	5 1	13 47.48	+15 0.6	1.203	2.125	14.6	19.9
5 11	13 45.52	-3 34.8	1.824	2.769	9.1	19.9	5 11	13 34.93	+13 26.7	1.241	2.121	17.6	20.0
5 21	13 39.56	-2 55.1	1.869	2.748	12.7	20.1	5 21	13 25.29	+11 24.1	1.300	2.116	20.8	20.2
5 31	13 35.62	-2 32.4	1.934	2.727	15.8	20.3	5 31	13 19.16	+9 1.4	1.375	2.111	23.6	20.4
<b>281087</b>	2006 <i>SN</i> <sub>231</sub>		4 22.1 191°02	0°9/21.1	17		<b>108628</b>	2001 <i>MZ</i> <sub>28</sub>		4 22.2 179°00	2°6/24.7	17	
3 22	14 19.35	-11 56.0	2.513	3.377	9.7	21.6	3 22	14 24.67	-22 39.7	2.364	3.190	11.7	20.3
4 1	14 14.33	-11 3.9	2.438	3.376	6.8	21.4	4 1	14 18.25	-22 24.2	2.283	3.192	8.8	20.1
4 11	14 7.98	-10 4.8	2.389	3.375	3.6	21.2	4 11	14 10.18	-21 54.5	2.227	3.194	5.7	19.9
4 21	14 0.90	-9 2.2	2.370	3.374	0.9	21.0	4 21	14 1.16	-21 11.8	2.199	3.194	3.0	19.7
5 1	13 53.77	-8 0.9	2.380	3.372	3.6	21.2	5 1	13 52.06	-20 19.6	2.200	3.194	3.5	19.8
5 11	13 47.27	-7 5.5	2.418	3.370	6.8	21.4	5 11	13 43.72	-19 22.8	2.230	3.193	6.5	20.0
5 21	13 41.96	-6 19.6	2.483	3.367	9.8	21.5	5 21	13 36.85	-18 26.8	2.287	3.192	9.6	20.1
5 31	13 38.25	-5 46.0	2.570	3.364	12.3	21.7	5 31	13 31.93	-17 36.7	2.368	3.189	12.4	20.3
<b>346816</b>	2009 <i>CV</i> <sub>51</sub>		4 22.2 79°61	1°5/20.8	17		<b>77307</b>	2001 <i>FJ</i> <sub>79</sub>		4 22.2 339°28	5°1/18.9	18	
3 22	14 21.21	-9 46.9	2.052	2.925	11.2	21.2	3 22	14 20.91	-3 36.6	1.218	2.119	15.2	18.6
4 1	14 15.75	-9 7.3	1.997	2.940	7.8	21.0	4 1	14 16.55	-2 44.9	1.154	2.108	11.0	18.3
4 11	14 8.77	-8 22.2	1.967	2.954	4.2	20.8	4 11	14 9.63	-1 51.2	1.112	2.098	6.7	18.0
4 21	14 0.98	-7 36.0	1.965	2.968	1.5	20.6	4 21	14 1.12	-1 3.7	1.093	2.089	5.2	17.9
5 1	13 53.23	-6 53.4	1.991	2.982	4.3	20.9	5 1	13 52.38	-0 30.6	1.098	2.081	8.5	18.1
5 11	13 46.35	-6 18.9	2.044	2.996	7.9	21.1	5 11	13 44.81	-0 18.3	1.126	2.074	13.1	18.3
5 21	13 40.95	-5 55.5	2.122	3.009	11.1	21.3	5 21	13 39.48	-0 29.4	1.173	2.068	17.5	18.5
5 31	13 37.45	-5 45.1	2.222	3.023	13.8	21.5	5 31	13 37.05	-1 3.3	1.237	2.063	21.2	18.8
<b>297662</b>	2001 <i>UT</i> <sub>36</sub>		4 22.2 182°39	2°4/19.1	18		<b>258929</b>	2002 <i>RJ</i> <sub>74</sub>		4 22.2 228°02	0°1/22.2	17	
3 22	14 19.33	-5 12.2	2.997	3.866	8.2	21.9	3 22	14 24.84	-14 12.7	1.971	2.831	12.2	21.8
4 1	14 14.10	-4 18.7	2.926	3.866	5.8	21.7	4 1	14 18.66	-13 46.5	1.886	2.820	8.8	21.5
4 11	14 7.79	-3 23.4	2.884	3.866	3.4	21.6	4 11	14 10.54	-13 10.0	1.825	2.809	4.8	21.3
4 21	14 0.88	-2 29.9	2.871	3.866	2.4	21.5	4 21	14 1.22	-12 26.1	1.792	2.797	0.5	20.9
5 1	13 53.94	-1 41.8	2.889	3.865	4.3	21.6	5 1	13 51.66	-11 39.5	1.787	2.784	3.9	21.1
5 11	13 47.53	-1 2.4	2.935	3.864	6.8	21.8	5 11	13 42.90	-10 55.7	1.811	2.770	8.1	21.4
5 21	13 42.12	-0 34.0	3.007	3.861	9.1	21.9	5 21	13 35.75	-10 19.6	1.860	2.756	11.9	21.6
5 31	13 38.05	-0 17.7	3.102	3.859	11.2	22.1	5 31	13 30.80	-9 55.0	1.930	2.741	15.2	21.8
<b>87936</b>	2000 <i>SG</i> <sub>350</sub>		4 22.2 176°89	2°5/20.4	18		<b>290111</b>	2005 <i>QT</i> <sub>118</sub>		4 22.2 16°00	1°6/20.9	17	
3 22	14 26.44	-5 20.6	2.004	2.875	11.6	19.7	3 22	14 21.92	-10 47.7	1.456	2.341	14.3	20.4
4 1	14 19.58	-5 9.1	1.936	2.876	8.2	19.5	4 1	14 16.88	-10 5.0	1.394	2.342	10.0	20.1
4 11	14 10.92	-4 56.5	1.893	2.877	4.6	19.3	4 11	14 9.63	-9 13.0	1.356	2.344	5.4	19.8
4 21	14 1.22	-4 46.0	1.878	2.877	2.5	19.1	4 21	14 1.11	-8 17.5	1.343	2.346	1.6	19.6
5 1	13 51.43	-4 41.3	1.892	2.878	5.1	19.3	5 1	13 52.52	-7 25.5	1.356	2.349	5.4	19.9
5 11	13 42.52	-4 45.4	1.933	2.878	8.7	19.5	5 11	13 45.05	-6 43.8	1.393	2.352	10.1	20.1
5 21	13 35.23	-4 59.8	2.000	2.877	12.1	19.7	5 21	13 39.58	-6 17.3	1.453	2.356	14.2	20.4
5 31	13 30.08	-5 25.6	2.088	2.877	14.9	19.9	5 31	13 36.66	-6 8.3	1.533	2.359	17.8	20.6
<b>285867</b>	2001 <i>KJ</i> <sub>10</sub>		4 22.2 338°02	8°5/17.5	17		<b>403783</b>	2011 <i>SC</i> <sub>84</sub>		4 22.2 248°32	0°2/22.1	17	
3 22	14 23												

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4 22.2

4 22.2

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>334348</b>	2001 YW <sub>18</sub>		4 22.2 58°88'	3°9'/20.0	18		<b>479877</b>	2014 HK <sub>1</sub>		4 22.2 239°93'	0°3'/21.9	16	
3 22	14 27.37	- 4 47.0	1.220	2.112	15.9	20.2	3 22	14 23.26	-11 19.0	2.601	3.459	9.7	21.2
4 1	14 20.78	- 4 18.6	1.180	2.129	11.3	20.0	4 1	14 17.15	-11 19.8	2.516	3.450	6.9	21.0
4 11	14 11.70	- 3 49.4	1.161	2.147	6.4	19.8	4 11	14 9.59	-11 15.9	2.457	3.441	3.7	20.8
4 21	14 1.33	- 3 25.6	1.166	2.165	3.9	19.7	4 21	14 1.16	-11 9.2	2.427	3.432	0.4	20.5
5 1	13 51.15	- 3 13.2	1.197	2.184	7.2	19.9	5 1	13 52.56	-11 1.9	2.428	3.423	3.2	20.7
5 11	13 42.54	- 3 16.2	1.251	2.202	11.8	20.2	5 11	13 44.54	-10 56.9	2.457	3.413	6.4	20.9
5 21	13 36.39	- 3 36.0	1.327	2.221	15.9	20.5	5 21	13 37.73	-10 56.4	2.513	3.403	9.5	21.1
5 31	13 33.19	- 4 12.0	1.421	2.240	19.3	20.8	5 31	13 32.57	-11 2.6	2.593	3.394	12.0	21.2
<b>156531</b>	2002 CA <sub>268</sub>		4 22.2 334°52'	5°9'/18.7	18		<b>183605</b>	2003 UW <sub>93</sub>		4 22.2 174°05'	0°2'/22.3	16	
3 22	14 24.94	+ 1 21.0	1.472	2.359	14.0	18.8	3 22	14 25.41	-14 32.8	1.760	2.623	13.3	21.3
4 1	14 19.08	+ 1 43.8	1.406	2.349	10.4	18.6	4 1	14 19.13	-14 7.3	1.689	2.626	9.5	21.1
4 11	14 10.88	+ 2 0.9	1.362	2.340	7.0	18.3	4 11	14 10.81	-13 30.7	1.643	2.627	5.2	20.8
4 21	14 1.27	+ 2 6.4	1.344	2.332	6.0	18.3	4 21	14 1.29	-12 46.3	1.624	2.629	0.6	20.5
5 1	13 51.46	+ 1 55.2	1.351	2.324	8.5	18.4	5 1	13 51.66	-11 59.4	1.633	2.629	4.1	20.7
5 11	13 42.73	+ 1 24.7	1.383	2.317	12.3	18.6	5 11	13 43.04	-11 16.0	1.668	2.630	8.5	21.0
5 21	13 36.03	+ 0 35.1	1.436	2.310	16.1	18.8	5 21	13 36.24	-10 41.2	1.728	2.630	12.4	21.2
5 31	13 31.99	- 0 31.7	1.507	2.305	19.3	19.0	5 31	13 31.84	-10 18.8	1.810	2.629	15.7	21.4
<b>470096</b>	2006 TR <sub>19</sub>		4 22.2 226°55'	0°3'/22.5	17		<b>88750</b>	2001 SW <sub>55</sub>		4 22.2 217°69'	3°2'/18.9	18	
3 22	14 19.95	-15 51.0	2.771	3.621	9.4	22.4	3 22	14 22.23	- 5 30.3	2.161	3.036	10.7	20.1
4 1	14 14.74	-15 12.7	2.681	3.610	6.8	22.2	4 1	14 16.59	- 4 22.5	2.085	3.027	7.6	19.8
4 11	14 8.24	-14 25.4	2.617	3.599	3.8	22.0	4 11	14 9.33	- 3 10.7	2.035	3.018	4.5	19.6
4 21	14 0.98	-13 31.6	2.582	3.587	0.6	21.7	4 21	14 1.13	- 2 0.6	2.013	3.008	3.3	19.5
5 1	13 53.61	-12 35.1	2.578	3.574	2.8	21.9	5 1	13 52.81	- 0 58.0	2.021	2.998	5.7	19.7
5 11	13 46.78	-11 40.0	2.602	3.561	6.0	22.1	5 11	13 45.21	- 0 8.0	2.056	2.987	9.1	19.8
5 21	13 41.05	-10 50.5	2.654	3.548	8.9	22.3	5 21	13 39.00	+ 0 26.0	2.115	2.975	12.2	20.0
5 31	13 36.83	-10 9.7	2.730	3.534	11.4	22.4	5 31	13 34.67	+ 0 42.6	2.195	2.963	14.9	20.2
<b>224429</b>	2005 UL <sub>433</sub>		4 22.2 248°15'	0°1'/22.2	17		<b>374984</b>	2007 ED <sub>38</sub>		4 22.2 253°84'	0°9'/21.3	17	
3 22	14 23.36	-14 27.8	2.007	2.868	12.0	21.2	3 22	14 21.73	-12 22.5	1.866	2.738	12.3	21.0
4 1	14 17.62	-13 57.0	1.917	2.853	8.6	21.0	4 1	14 16.49	-11 35.9	1.787	2.729	8.7	20.7
4 11	14 9.99	-13 15.4	1.853	2.837	4.7	20.7	4 11	14 9.38	-10 39.3	1.733	2.720	4.7	20.5
4 21	14 1.18	-12 26.2	1.816	2.820	0.5	20.3	4 21	14 1.14	- 9 37.2	1.706	2.710	1.0	20.2
5 1	13 52.12	-11 34.1	1.807	2.803	3.8	20.6	5 1	13 52.74	- 8 35.5	1.707	2.701	4.4	20.4
5 11	13 43.79	-10 44.7	1.826	2.786	8.0	20.8	5 11	13 45.16	- 7 40.6	1.735	2.691	8.6	20.6
5 21	13 37.00	-10 3.2	1.871	2.768	11.8	21.0	5 21	13 39.18	- 6 57.4	1.787	2.681	12.4	20.8
5 31	13 32.34	- 9 33.6	1.936	2.750	15.1	21.2	5 31	13 35.36	- 6 29.5	1.860	2.672	15.7	21.0
<b>87880</b>	2000 SO <sub>276</sub>		4 22.2 225°90'	0°4'/22.6	18		<b>371199</b>	2005 YJ <sub>176</sub>		4 22.2 150°74'	2°4'/19.9	17	
3 22	14 19.31	-16 17.5	2.623	3.475	9.8	20.0	3 22	14 23.17	- 6 53.3	2.135	3.007	10.9	21.7
4 1	14 14.34	-15 35.2	2.537	3.468	7.1	19.8	4 1	14 17.15	- 6 10.7	2.072	3.014	7.7	21.5
4 11	14 8.04	-14 43.1	2.478	3.460	3.9	19.6	4 11	14 9.58	- 5 24.9	2.036	3.021	4.3	21.3
4 21	14 0.97	-13 44.0	2.447	3.452	0.7	19.4	4 21	14 1.16	- 4 40.1	2.028	3.027	2.4	21.2
5 1	13 53.81	-12 42.0	2.446	3.443	2.9	19.5	5 1	13 52.72	- 4 1.2	2.049	3.033	4.9	21.4
5 11	13 47.24	-11 41.9	2.474	3.434	6.2	19.7	5 11	13 45.11	- 3 32.1	2.097	3.039	8.3	21.6
5 21	13 41.82	-10 47.8	2.529	3.425	9.2	19.9	5 21	13 38.96	- 3 15.5	2.170	3.044	11.4	21.8
5 31	13 37.97	-10 3.3	2.607	3.416	11.8	20.1	5 31	13 34.72	- 3 12.8	2.264	3.048	14.1	22.0
<b>161737</b>	2006 SR <sub>121</sub>		4 22.2 164°72'	3°2'/17.9	18		<b>53136</b>	1999 BB <sub>3</sub>		4 22.2 95°25'	4°2'/18.9	18	
3 22	14 19.20	- 1 26.9	2.984	3.855	8.2	21.6	3 22	14 24.63	- 2 54.3	1.755	2.636	12.5	18.9
4 1	14 14.02	- 0 32.6	2.922	3.861	5.9	21.4	4 1	14 18.29	- 2 0.4	1.711	2.655	8.9	18.7
4 11	14 7.77	+ 0 21.0	2.889	3.865	3.8	21.3	4 11	14 10.20	- 1 7.2	1.692	2.674	5.5	18.5
4 21	14 0.95	+ 1 10.2	2.884	3.870	3.4	21.3	4 21	14 1.22	- 0 20.4	1.700	2.692	4.3	18.5
5 1	13 54.12	+ 1 51.3	2.909	3.873	5.0	21.4	5 1	13 52.37	+ 0 14.2	1.736	2.711	6.7	18.7
5 11	13 47.84	+ 2 21.5	2.962	3.877	7.3	21.5	5 11	13 44.62	+ 0 33.0	1.797	2.728	10.1	18.9
5 21	13 42.56	+ 2 39.4	3.041	3.880	9.5	21.7	5 21	13 38.65	+ 0 34.5	1.882	2.746	13.3	19.1
5 31	13 38.61	+ 2 44.4	3.141	3.882	11.4	21.8	5 31	13 34.87	+ 0 19.1	1.986	2.763	16.0	19.4
<b>315388</b>	2007 VP <sub>91</sub>		4 22.2 186°21'	0°9'/22.9	16		<b>517163</b>	2013 NT <sub>26</sub>		4 22.2 186°94'	2°2'/19.7	17	
3 22	14 26.09	-16 31.3	1.927	2.781	12.8	21.9	3 22	14 21.03	- 8 38.6	2.395	3.265	10.0	21.8
4 1	14 19.51	-16 10.3	1.851	2.781	9.3	21.7	4 1	14 15.56	- 7 25.7	2.323	3.264	7.0	21.6
4 11	14 10.98	-15 37.2	1.799	2.780	5.3	21.4	4 11	14 8.70	- 6 7.0	2.278	3.263	3.8	21.4
4 21	14 1.30	-14 54.8	1.775	2.779	1.2	21.1	4 21	14 1.07	- 4 47.6	2.262	3.262	2.2	21.3
5 1	13 51.48	-14 7.4	1.780	2.777	3.7	21.3	5 1	13 53.39	- 3 33.1	2.276	3.260	4.6	21.5
5 11	13 42.57	-13 20.8	1.812	2.774	7.9	21.6	5 11	13 46.39	- 2 28.6	2.319	3.257	7.8	21.6
5 21	13 35.39	-12 40.3	1.870	2.771	11.6	21.8	5 21	13 40.66	- 1 37.8	2.388	3.253	10.8	21.8
5 31	13 30.49	-12 10.2	1.950	2.767	14.8	22.0	5 31	13 36.62	- 1 2.7	2.478	3.250	13.3	22.0
<b>428817</b>	2008 TG <sub>73</sub>		4 22.2 297°95'	1°2'/23.3	17		<b>85149</b>	1981 EU <sub>43</sub>		4 22.2 165°65'	6°9'/28.7	17	
3 22	14 19.84	-19 17.7	1.818	2.676	13.2	20.5	3 22	14 27.58	-34 49.6	2.322	3.083	13.8	19.9
4 1	14 15.21	-18 22.7	1.737	2.668	9.7	20.3	4 1	14 20.62	-35 21.2	2.241	3.088	11.6	19.7
4 11	14 8.69	-17 10.3	1.680	2.660	5.6	20.0	4 11	14 11.62	-35 32.2	2.182	3.092	9.3	19.6
4 21	14 1.06	-15 44.5	1.649	2.652	1.6	19.7	4 21	14 1.39	-35 20.5	2.148	3.096	7.4	19.5
5 1	13 53.28	-14 12.0	1.646	2.644	3.7	19.8	5 1	13 50.96	-34 47.2	2.141	3.099	7.0	19.4
5 11	13 46.37	-12 40.9	1.670	2.637	8.0	20.1	5 11	13 41.42	-33 56.5	2.161	3.101	8.2	19.5
5 21	13 41.10	-11 18.9	1.719	2.629	12.0	20.3	5 21	13 33.63	-32 54.7	2.207	3.103	10.3	19.6
5 31	13 38.03	-10 11.7	1.790	2.622	15.4	20.5	5 31	13 28.16	-31 49.2	2.276	3.105	12.6	19.8
<b>115907</b>	2003 WP <sub>1</sub>		4 22.2 171°07'	0°3'/22.4	18		<b>423199</b>	2004 PF <sub>35</sub>		4 22.2 203°10'	5°0'/16.4	18	

EPHEMERIDES

4 22.2

4 22.2

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>381476</b>	2008 SA <sub>20</sub>		4 22.2 197°30	2°9/25.1	17		<b>505139</b>	2012 JY <sub>53</sub>		4 22.2 280°24	4°4/18.8	17	
3 22	14 24.15	-23 32.6	2.639	3.457	10.8	23.1	3 22	14 23.44	-2 50.5	1.705	2.588	12.6	22.0
4 1	14 17.83	-23 28.8	2.550	3.453	8.3	22.9	4 1	14 17.88	-2 3.1	1.627	2.572	9.1	21.7
4 11	14 9.98	-23 12.0	2.487	3.449	5.5	22.7	4 11	14 10.24	-1 14.5	1.573	2.556	5.7	21.5
4 21	14 1.21	-22 42.9	2.451	3.443	3.2	22.5	4 21	14 1.30	+0 30.8	1.546	2.539	4.5	21.4
5 1	13 52.30	-22 3.8	2.446	3.438	3.5	22.6	5 1	13 52.09	+0 1.8	1.546	2.523	7.2	21.5
5 11	13 44.04	-21 18.9	2.469	3.431	6.1	22.7	5 11	13 43.73	+0 18.2	1.571	2.506	11.0	21.7
5 21	13 37.08	-20 32.6	2.520	3.424	8.9	22.9	5 21	13 37.11	+0 16.2	1.618	2.490	14.8	21.9
5 31	13 31.89	-19 49.6	2.595	3.416	11.5	23.0	5 31	13 32.84	-0 5.0	1.685	2.473	18.0	22.0
<b>38424</b>	1999 RU <sub>228</sub>		4 22.2 19°50	3°0/18.5	18		<b>181039</b>	2005 OH <sub>24</sub>		4 22.2 196°24	1°5/23.7	17	
3 22	14 17.81	-7 2.1	2.227	3.107	10.2	18.8	3 22	14 20.34	-19 5.5	2.441	3.285	10.7	21.0
4 1	14 13.37	-5 27.5	2.162	3.107	7.1	18.6	4 1	14 15.17	-18 42.8	2.361	3.284	7.9	20.8
4 11	14 7.54	-3 47.9	2.123	3.108	4.1	18.4	4 11	14 8.55	-18 8.6	2.307	3.283	4.7	20.6
4 21	14 0.95	-2 9.4	2.114	3.109	3.1	18.3	4 21	14 1.10	-17 25.2	2.280	3.282	1.7	20.4
5 1	13 54.34	-0 39.0	2.134	3.110	5.5	18.5	5 1	13 53.57	-16 36.1	2.283	3.280	3.0	20.5
5 11	13 48.43	+0 37.6	2.181	3.111	8.7	18.6	5 11	13 46.70	-15 45.9	2.314	3.279	6.2	20.7
5 21	13 43.79	+1 36.7	2.253	3.112	11.6	18.8	5 21	13 41.11	-14 59.1	2.371	3.277	9.3	20.9
5 31	13 40.82	+2 16.6	2.345	3.113	14.1	19.0	5 31	13 37.24	-14 19.6	2.452	3.275	12.0	21.0
<b>58630</b>	1997 WC		4 22.2 229°44	2°3/24.0	18		<b>303777</b>	2005 QW <sub>187</sub>		4 22.2 163°09	7°9/30.6	18	
3 22	14 24.89	-20 57.5	1.706	2.555	14.4	19.4	3 22	14 28.85	-41 16.6	2.893	3.594	12.6	21.4
4 1	14 19.01	-20 30.2	1.622	2.546	10.8	19.2	4 1	14 21.46	-42 13.1	2.809	3.598	11.1	21.3
4 11	14 10.87	-19 44.2	1.561	2.536	6.6	18.9	4 11	14 12.11	-42 50.5	2.746	3.602	9.5	21.2
4 21	14 1.34	-18 41.9	1.525	2.526	2.8	18.6	4 21	14 1.51	-43 5.9	2.708	3.605	8.3	21.1
5 1	13 51.54	-17 28.5	1.518	2.515	4.1	18.7	5 1	13 50.60	-42 58.8	2.696	3.608	7.9	21.1
5 11	13 42.71	-16 11.8	1.537	2.504	8.5	18.9	5 11	13 40.39	-42 31.7	2.710	3.611	8.4	21.1
5 21	13 35.80	-14 59.9	1.581	2.493	12.7	19.1	5 21	13 31.74	-41 49.2	2.750	3.613	9.6	21.2
5 31	13 31.44	-13 59.6	1.645	2.480	16.4	19.3	5 31	13 25.24	-40 57.5	2.812	3.615	11.1	21.3
<b>507452</b>	2012 TH <sub>84</sub>		4 22.2 218°94	0°5/22.6	17		<b>503071</b>	2015 FO <sub>224</sub>		4 22.2 116°40	3°3/18.9	17	
3 22	14 21.94	-15 18.9	2.214	3.071	11.2	22.1	3 22	14 21.45	-4 48.3	2.135	3.012	10.7	20.9
4 1	14 16.41	-14 57.8	2.134	3.067	8.0	21.8	4 1	14 15.90	-3 43.0	2.082	3.026	7.5	20.7
4 11	14 9.26	-14 27.2	2.080	3.063	4.5	21.6	4 11	14 8.90	-2 36.1	2.056	3.039	4.5	20.6
4 21	14 1.16	-13 49.6	2.054	3.058	0.8	21.3	4 21	14 1.15	-1 32.9	2.058	3.052	3.4	20.5
5 1	13 52.93	-13 9.0	2.056	3.053	3.3	21.5	5 1	13 53.45	-0 38.8	2.089	3.064	5.7	20.7
5 11	13 45.42	-12 29.8	2.087	3.048	7.0	21.7	5 11	13 46.58	+0 1.8	2.146	3.077	8.8	20.9
5 21	13 39.31	-11 56.4	2.143	3.043	10.4	21.9	5 21	13 41.12	+0 26.7	2.228	3.089	11.7	21.1
5 31	13 35.09	-11 32.1	2.221	3.038	13.3	22.1	5 31	13 37.49	+0 35.2	2.331	3.100	14.1	21.3
<b>159607</b>	2001 YO <sub>115</sub>		4 22.2 214°18	3°3/19.7	18		<b>148711</b>	2001 TQ <sub>22</sub>		4 22.2 251°57	0°8/22.8	17	
3 22	14 26.57	-5 16.0	1.827	2.702	12.4	20.0	3 22	14 23.46	-16 25.9	1.870	2.729	12.8	20.5
4 1	14 19.93	-4 32.1	1.752	2.694	8.8	19.8	4 1	14 17.84	-16 1.5	1.784	2.717	9.3	20.2
4 11	14 11.27	-3 45.1	1.702	2.686	5.1	19.5	4 11	14 10.20	-15 24.4	1.723	2.705	5.3	20.0
4 21	14 1.39	-3 0.2	1.679	2.677	3.3	19.4	4 21	14 1.31	-14 37.3	1.688	2.692	1.2	19.7
5 1	13 51.32	-2 23.2	1.685	2.667	6.1	19.5	5 1	13 52.17	-13 44.9	1.681	2.678	3.8	19.8
5 11	13 42.14	-1 59.0	1.717	2.656	10.0	19.7	5 11	13 43.83	-12 53.4	1.701	2.665	8.1	20.0
5 21	13 34.71	-1 50.4	1.774	2.645	13.7	19.9	5 21	13 37.17	-12 8.4	1.746	2.651	12.1	20.3
5 31	13 29.59	-1 58.5	1.850	2.632	16.8	20.1	5 31	13 32.78	-11 34.7	1.812	2.637	15.5	20.4
<b>303298</b>	2004 SD <sub>24</sub>		4 22.2 188°63	2°6/19.9	18		<b>287393</b>	2002 VE <sub>72</sub>		4 22.2 86°90	3°4/19.3	17	
3 22	14 24.03	-9 11.2	1.741	2.617	12.8	20.9	3 22	14 23.70	-2 32.0	2.171	3.045	10.7	20.8
4 1	14 18.13	-7 54.9	1.672	2.617	9.0	20.7	4 1	14 17.41	-2 2.6	2.124	3.065	7.6	20.6
4 11	14 10.26	-6 30.3	1.629	2.616	4.9	20.5	4 11	14 9.69	-1 34.5	2.104	3.084	4.6	20.5
4 21	14 1.28	-5 4.0	1.614	2.614	2.7	20.3	4 21	14 1.23	-1 11.4	2.111	3.104	3.5	20.4
5 1	13 52.22	-3 44.0	1.626	2.612	5.8	20.5	5 1	13 52.88	-0 57.0	2.147	3.123	5.5	20.6
5 11	13 44.13	-2 37.3	1.665	2.609	9.9	20.7	5 11	13 45.41	-0 54.0	2.210	3.142	8.5	20.8
5 21	13 37.81	-1 48.8	1.728	2.605	13.7	21.0	5 21	13 39.40	-1 3.2	2.298	3.161	11.3	21.0
5 31	13 33.79	-1 20.7	1.811	2.601	16.8	21.2	5 31	13 35.25	-1 24.9	2.407	3.180	13.6	21.2
<b>237075</b>	2008 SM <sub>261</sub>		4 22.2 144°97	2°1/20.2	17		<b>370183</b>	2002 CT <sub>61</sub>		4 22.2 59°18	6°2/26.3	18	
3 22	14 20.89	-8 55.2	2.004	2.880	11.3	21.0	3 22	14 29.13	-27 7.4	1.611	2.433	16.4	20.0
4 1	14 15.68	-7 58.3	1.938	2.882	7.9	20.8	4 1	14 22.06	-27 58.7	1.556	2.453	13.0	19.9
4 11	14 8.85	-6 55.5	1.899	2.885	4.3	20.6	4 11	14 12.52	-28 29.0	1.523	2.473	9.4	19.7
4 21	14 1.13	-5 51.9	1.887	2.888	2.1	20.4	4 21	14 1.55	-28 36.6	1.514	2.493	6.7	19.6
5 1	13 53.36	-4 53.3	1.903	2.890	4.9	20.6	5 1	13 50.54	-28 23.1	1.532	2.514	6.6	19.6
5 11	13 46.42	-4 5.0	1.946	2.893	8.5	20.8	5 11	13 40.84	-27 54.0	1.575	2.534	9.1	19.8
5 21	13 40.96	-3 30.6	2.014	2.895	11.8	21.0	5 21	13 33.44	-27 17.1	1.642	2.555	12.2	20.0
5 31	13 37.44	-3 12.0	2.103	2.897	14.7	21.2	5 31	13 28.92	-26 39.9	1.730	2.575	15.2	20.3
<b>350212</b>	2012 RD <sub>25</sub>		4 22.2 284°20	0°2/22.6	18		<b>98143</b>	2000 SS <sub>60</sub>		4 22.2 276°72	0°2/22.6	18	
3 22	14 14.17	-14 45.3	4.255	5.106	6.4	20.9	3 22	14 14.20	-14 33.3	4.460	5.310	6.1	19.6
4 1	14 10.35	-14 25.1	4.170	5.100	4.5	20.7	4 1	14 10.35	-14 18.0	4.379	5.308	4.4	19.5
4 11	14 5.79	-14 0.1	4.112	5.094	2.5	20.6	4 11	14 5.78	-13 58.4	4.324	5.306	2.4	19.4
4 21	14 0.80	-13 32.0	4.084	5.089	0.4	20.4	4 21	14 0.83	-13 35.9	4.300	5.304	0.4	19.2
5 1	13 55.76	-13 2.5	4.086	5.083	1.9	20.5	5 1	13 55.83	-13 12.3	4.305	5.302	1.8	19.3
5 11	13 51.05	-12 33.9	4.118	5.077	4.0	20.7	5 11	13 51.14	-12 49.3	4.341	5.300	3.8	19.5
5 21	13 46.99	-12 8.1	4.177	5.072	5.9	20.8	5 21	13 47.07	-12 28.8	4.404	5.298	5.6	19.6
5 31	13 43.83	-11 46.9	4.261	5.066	7.6	20.9	5 31	13 43.88	-12 12.4	4.492	5.296	7.3	19.7
<b>127878</b>	2003 GH <sub>4</sub>		4 22.2 290°58	1°0/21.5	18		<b>134831</b>	2000 HO <sub>60</sub>		4 22.2 298°65	0°2/22.4	18	
3 22	14 22.73	-13 31.3	1.378	2.259	15.1	18.9	3 22	14 21.62	-14				

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4 22.2

4 22.2

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>329383</b>	2001 <i>XO</i> <sub>79</sub>		4 22.2 201°35	5°2/17.6	17		<b>148760</b>	2001 <i>TH</i> <sub>212</sub>		4 22.2 111°67	4°7/26.3	18	
3 22	14 24.89	+ 2 30.6	2.204	3.074	10.7	22.0	3 22	14 24.25	-27 16.3	1.819	2.640	14.8	20.2
4 1	14 18.41	+ 3 16.5	2.137	3.070	8.0	21.8	4 1	14 18.40	-27 8.2	1.749	2.648	11.6	20.0
4 11	14 10.33	+ 3 58.4	2.096	3.066	5.7	21.7	4 11	14 10.47	-26 38.8	1.701	2.657	8.1	19.8
4 21	14 1.32	+ 4 31.2	2.083	3.061	5.3	21.7	4 21	14 1.36	-25 48.9	1.679	2.665	5.2	19.7
5 1	13 52.24	+ 4 50.6	2.099	3.055	7.2	21.8	5 1	13 52.20	-24 42.6	1.684	2.673	5.1	19.7
5 11	13 43.93	+ 4 53.7	2.141	3.048	10.0	21.9	5 11	13 44.11	-23 27.0	1.715	2.681	7.9	19.9
5 21	13 37.06	+ 4 39.8	2.207	3.041	12.7	22.1	5 21	13 37.92	-22 10.3	1.772	2.689	11.3	20.1
5 31	13 32.11	+ 4 9.8	2.294	3.034	15.1	22.2	5 31	13 34.16	-20 59.8	1.850	2.696	14.4	20.3
<b>389298</b>	2009 <i>LQ</i> <sub>6</sub>		4 22.2 337°40	7°9/12.4	18		<b>153653</b>	2001 <i>TA</i> <sub>104</sub>		4 22.2 151°75	1°9/23.8	18	
3 22	14 15.78	+ 3 36.8	1.737	2.630	11.8	19.7	3 22	14 25.50	-19 17.0	2.192	3.032	11.9	21.2
4 1	14 12.34	+ 6 12.5	1.677	2.617	9.3	19.5	4 1	14 18.92	-19 9.1	2.121	3.041	8.8	21.0
4 11	14 7.18	+ 8 46.5	1.643	2.604	7.9	19.4	4 11	14 10.63	-18 49.0	2.075	3.049	5.3	20.8
4 21	14 0.99	+11 7.1	1.637	2.592	8.7	19.4	4 21	14 1.38	-18 18.5	2.056	3.057	2.2	20.6
5 1	13 54.68	+13 3.7	1.657	2.580	11.2	19.5	5 1	13 52.08	-17 40.9	2.067	3.064	3.4	20.7
5 11	13 49.14	+14 29.6	1.700	2.570	14.1	19.7	5 11	13 43.62	-17 0.9	2.106	3.070	6.8	21.0
5 21	13 45.11	+15 22.4	1.763	2.560	16.9	19.9	5 21	13 36.72	-16 23.3	2.172	3.076	10.1	21.2
5 31	13 43.10	+15 43.5	1.842	2.551	19.2	20.0	5 31	13 31.86	-15 52.3	2.261	3.081	13.0	21.4
<b>233575</b>	2007 <i>PZ</i> <sub>46</sub>		4 22.2 62°31	1°1/23.2	17		<b>500730</b>	2012 <i>XG</i> <sub>72</sub>		4 22.2 142°50	4°5/17.7	17	
3 22	14 21.97	-17 14.4	1.895	2.754	12.7	20.7	3 22	14 21.49	+ 1 18.4	2.347	3.221	10.0	21.3
4 1	14 16.60	-16 54.1	1.828	2.760	9.2	20.5	4 1	14 15.89	+ 2 3.1	2.289	3.226	7.3	21.2
4 11	14 9.43	-16 21.7	1.785	2.766	5.3	20.3	4 11	14 8.91	+ 2 44.6	2.257	3.230	5.1	21.0
4 21	14 1.24	-15 39.8	1.768	2.772	1.5	20.0	4 21	14 1.19	+ 3 18.2	2.254	3.234	4.7	21.0
5 1	13 52.99	-14 52.9	1.779	2.778	3.5	20.2	5 1	13 53.47	+ 3 40.2	2.278	3.238	6.5	21.1
5 11	13 45.64	-14 6.9	1.818	2.784	7.5	20.5	5 11	13 46.47	+ 3 47.9	2.329	3.242	9.0	21.3
5 21	13 39.94	-13 26.7	1.881	2.790	11.2	20.7	5 21	13 40.75	+ 3 40.4	2.405	3.246	11.6	21.5
5 31	13 36.37	-12 56.6	1.966	2.796	14.3	20.9	5 31	13 36.74	+ 3 18.1	2.500	3.249	13.8	21.6
<b>198657</b>	2005 <i>BF</i> <sub>16</sub>		4 22.2 91°21	1°8/23.7	17		<b>105444</b>	2000 <i>QU</i> <sub>182</sub>		4 22.2 250°48	0°9/21.4	18	
3 22	14 22.90	-18 39.0	1.926	2.778	12.8	20.2	3 22	14 23.45	- 9 30.0	2.719	3.578	9.3	19.9
4 1	14 17.30	-18 30.0	1.853	2.780	9.4	20.0	4 1	14 17.32	- 9 23.4	2.625	3.561	6.6	19.7
4 11	14 9.84	-18 8.0	1.804	2.781	5.6	19.8	4 11	14 9.75	- 9 13.2	2.559	3.543	3.6	19.4
4 21	14 1.28	-17 35.0	1.781	2.783	2.1	19.5	4 21	14 1.30	- 9 1.4	2.521	3.525	0.9	19.2
5 1	13 52.61	-16 54.8	1.787	2.785	3.6	19.6	5 1	13 52.65	- 8 50.6	2.514	3.507	3.4	19.4
5 11	13 44.81	-16 12.9	1.819	2.786	7.4	19.9	5 11	13 44.50	- 8 43.4	2.537	3.488	6.5	19.5
5 21	13 38.67	-15 34.6	1.877	2.788	11.1	20.1	5 21	13 37.48	- 8 42.1	2.586	3.469	9.5	19.7
5 31	13 34.71	-15 4.3	1.957	2.789	14.2	20.3	5 31	13 32.05	- 8 48.7	2.659	3.449	12.0	19.8
<b>223232</b>	2003 <i>DA</i> <sub>24</sub>		4 22.2 344°99	2°6/20.2	17		<b>325895</b>	2010 <i>UD</i> <sub>29</sub>		4 22.2 152°25	1°0/21.4	16	
3 22	14 20.37	- 8 58.8	1.443	2.333	14.0	19.7	3 22	14 24.75	-11 46.1	1.969	2.834	12.0	22.1
4 1	14 15.88	- 8 1.0	1.378	2.329	9.9	19.5	4 1	14 18.44	-11 6.4	1.904	2.843	8.5	21.8
4 11	14 9.20	- 6 54.9	1.336	2.324	5.4	19.2	4 11	14 10.38	-10 18.9	1.865	2.850	4.5	21.6
4 21	14 1.22	- 5 47.3	1.319	2.320	2.7	19.0	4 21	14 1.36	- 9 27.5	1.853	2.857	1.0	21.4
5 1	13 53.11	- 4 46.1	1.327	2.317	6.2	19.2	5 1	13 52.33	- 8 37.6	1.870	2.864	4.2	21.6
5 11	13 46.04	- 3 58.7	1.360	2.314	10.7	19.5	5 11	13 44.21	- 7 54.3	1.916	2.870	8.1	21.9
5 21	13 40.92	- 3 29.8	1.415	2.312	14.9	19.7	5 21	13 37.73	- 7 21.8	1.986	2.875	11.6	22.1
5 31	13 38.30	- 3 21.3	1.489	2.310	18.4	19.9	5 31	13 33.36	- 7 2.7	2.077	2.880	14.6	22.3
<b>374491</b>	2005 <i>YM</i> <sub>95</sub>		4 22.2 197°58	0°8/21.4	17		<b>151323</b>	2002 <i>CF</i> <sub>138</sub>		4 22.2 342°03	8°0/14.9	18	
3 22	14 22.65	-12 1.2	2.081	2.947	11.4	22.2	3 22	14 18.02	+ 2 36.5	1.415	2.314	13.6	18.4
4 1	14 16.96	-11 22.5	2.006	2.945	8.1	22.0	4 1	14 14.20	+ 4 29.4	1.359	2.305	10.4	18.1
4 11	14 9.60	-10 35.6	1.957	2.943	4.3	21.8	4 11	14 8.29	+ 6 18.9	1.327	2.297	8.2	18.0
4 21	14 1.26	- 9 44.6	1.936	2.940	0.9	21.5	4 21	14 1.14	+ 7 54.0	1.319	2.290	8.5	18.0
5 1	13 52.82	- 8 54.2	1.943	2.937	4.0	21.7	5 1	13 53.88	+ 9 4.8	1.335	2.284	11.2	18.1
5 11	13 45.17	- 8 9.6	1.978	2.933	7.8	22.0	5 11	13 47.64	+ 9 45.1	1.374	2.278	14.6	18.3
5 21	13 39.00	- 7 34.9	2.038	2.929	11.3	22.2	5 21	13 43.26	+ 9 53.9	1.431	2.274	17.9	18.5
5 31	13 34.81	- 7 13.1	2.120	2.925	14.2	22.4	5 31	13 41.29	+ 9 33.1	1.504	2.270	20.7	18.7
<b>346882</b>	2009 <i>HV</i> <sub>29</sub>		4 22.2 88°25	2°5/20.1	17		<b>381592</b>	2008 <i>UP</i> <sub>347</sub>		4 22.2 279°26	3°7/25.2	17	
3 22	14 22.42	- 5 27.5	2.190	3.064	10.6	20.5	3 22	14 22.82	-23 56.1	1.954	2.787	13.4	20.9
4 1	14 16.65	- 5 5.0	2.127	3.069	7.5	20.3	4 1	14 17.48	-23 53.8	1.860	2.770	10.4	20.6
4 11	14 9.37	- 4 41.1	2.089	3.074	4.2	20.1	4 11	14 10.08	-23 34.3	1.788	2.753	7.0	20.4
4 21	14 1.24	- 4 19.4	2.080	3.079	2.5	20.0	4 21	14 1.36	-22 57.9	1.742	2.735	4.1	20.2
5 1	13 53.07	- 4 3.5	2.099	3.084	4.8	20.2	5 1	13 52.30	-22 7.5	1.724	2.718	4.4	20.1
5 11	13 45.68	- 3 56.5	2.145	3.088	8.0	20.4	5 11	13 44.00	-21 8.8	1.733	2.700	7.7	20.3
5 21	13 39.69	- 4 0.2	2.217	3.093	11.1	20.6	5 21	13 37.34	-20 8.4	1.766	2.682	11.4	20.5
5 31	13 35.54	- 4 15.6	2.309	3.098	13.7	20.8	5 31	13 32.99	-19 13.2	1.822	2.664	14.7	20.7
<b>157468</b>	2004 <i>XS</i> <sub>184</sub>		4 22.2 44°40	2°0/25.5	18		<b>497639</b>	2006 <i>RY</i> <sub>7</sub>		4 22.2 261°36	0°7/21.6	17	
3 22	14 15.46	-23 28.2	4.287	5.101	7.0	20.3	3 22	14 24.34	-12 46.2	1.735	2.605	13.1	21.9
4 1	14 11.29	-23 26.0	4.203	5.102	5.4	20.2	4 1	14 18.64	-12 9.5	1.646	2.587	9.4	21.7
4 11	14 6.33	-23 16.1	4.145	5.104	3.6	20.1	4 11	14 10.74	-11 21.6	1.581	2.567	5.1	21.4
4 21	14 0.91	-22 59.3	4.116	5.105	2.2	20.0	4 21	14 1.43	-10 26.6	1.543	2.547	0.8	21.0
5 1	13 55.44	-22 36.9	4.116	5.107	2.3	20.0	5 1	13 51.77	- 9 30.2	1.532	2.527	4.6	21.2
5 11	13 50.32	-22 11.1	4.146	5.109	3.8	20.1	5 11	13 42.92	- 8 39.1	1.548	2.506	9.3	21.5
5 21	13 45.90	-21 44.0	4.204	5.110	5.6	20.2	5 21	13 35.82	- 7 59.2	1.588	2.485	13.5	21.7
5 31	13 42.45	-21 18.0	4.287	5.112	7.2	20.3	5 31	13 31.16	- 7 34.5	1.648	2.464	17.2	21.9
<b>305383</b>	2008 <i>CQ</i> <sub>38</sub>		4 22.2 230°04	4°2/17.5	17		<b>23508</b>	1992 <i>ET</i> <sub>14</sub>		4 2			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>310306</b>	2011 <i>UE</i> <sub>107</sub>		4 22.2 192°83	0°4/21.8	18		<b>336886</b>	2011 <i>GQ</i> <sub>57</sub>		4 22.2 247°57	2°8/19.5	17	
3 22	14 22.38	-11 17.1	2.807	3.664	9.1	21.6	3 22	14 20.80	-7 17.4	2.004	2.882	11.2	20.8
4 1	14 16.44	-11 8.0	2.728	3.662	6.4	21.4	4 1	14 15.74	-6 10.2	1.928	2.873	7.9	20.6
4 11	14 9.22	-10 54.1	2.676	3.660	3.5	21.2	4 11	14 9.00	-4 57.4	1.878	2.864	4.5	20.3
4 21	14 1.25	-10 37.7	2.653	3.657	0.5	20.9	4 21	14 1.27	-3 44.6	1.856	2.854	2.9	20.2
5 1	13 53.19	-10 21.1	2.660	3.655	3.0	21.1	5 1	13 53.41	-2 38.1	1.862	2.845	5.6	20.4
5 11	13 45.70	-10 7.2	2.697	3.651	6.0	21.3	5 11	13 46.30	-1 43.8	1.895	2.835	9.2	20.6
5 21	13 39.32	-9 58.5	2.761	3.648	8.8	21.5	5 21	13 40.64	-1 5.4	1.952	2.825	12.5	20.8
5 31	13 34.47	-9 56.8	2.848	3.644	11.2	21.7	5 31	13 36.95	-0 45.0	2.030	2.814	15.4	20.9
<b>518935</b>	2010 <i>GC</i> <sub>96</sub>		4 22.2 85°77	3°9/19.1	15		<b>211927</b>	2004 <i>VE</i> <sub>6</sub>		4 22.2 101°80	1°8/20.9	18	
3 22	14 24.40	-2 16.9	1.912	2.789	11.7	21.3	3 22	14 28.31	-9 17.7	1.605	2.477	13.9	21.1
4 1	14 18.07	-1 38.2	1.867	2.808	8.4	21.2	4 1	14 21.08	-8 44.0	1.559	2.500	9.7	20.9
4 11	14 10.12	-1 0.9	1.847	2.828	5.2	21.0	4 11	14 11.83	-8 4.5	1.537	2.523	5.2	20.7
4 21	14 1.34	-0 29.9	1.855	2.847	4.0	21.0	4 21	14 1.57	-7 24.1	1.542	2.545	1.8	20.5
5 1	13 52.69	-0 9.5	1.890	2.865	6.2	21.2	5 1	13 51.48	-6 48.5	1.575	2.566	5.1	20.8
5 11	13 45.03	-0 2.8	1.952	2.884	9.4	21.4	5 11	13 42.67	-6 22.7	1.635	2.587	9.4	21.1
5 21	13 39.03	-0 10.8	2.038	2.902	12.4	21.6	5 21	13 35.92	-6 9.8	1.718	2.607	13.1	21.3
5 31	13 35.08	-0 33.2	2.145	2.921	15.0	21.8	5 31	13 31.67	-6 11.3	1.822	2.627	16.2	21.6
<b>371018</b>	2005 <i>UH</i> <sub>46</sub>		4 22.2 108°36	0°1/22.3	17		<b>4101</b>	Ruikou		4 22.2 268°40	4°2/25.4	18	
3 22	14 23.03	-15 20.3	1.902	2.764	12.5	21.5	3 22	14 24.80	-24 25.5	1.947	2.775	13.7	16.7
4 1	14 17.24	-14 36.1	1.843	2.778	8.9	21.3	4 1	14 18.91	-24 43.6	1.858	2.764	10.7	16.5
4 11	14 9.73	-13 40.7	1.808	2.792	4.9	21.1	4 11	14 10.89	-24 45.3	1.792	2.752	7.4	16.3
4 21	14 1.31	-12 38.3	1.801	2.805	0.6	20.8	4 21	14 1.50	-24 30.3	1.751	2.741	4.6	16.1
5 1	13 52.93	-11 34.6	1.822	2.819	3.7	21.1	5 1	13 51.77	-24 0.4	1.738	2.729	4.9	16.1
5 11	13 45.51	-10 35.9	1.871	2.831	7.7	21.4	5 11	13 42.83	-23 20.4	1.752	2.717	7.9	16.2
5 21	13 39.76	-9 47.1	1.944	2.844	11.3	21.6	5 21	13 35.61	-22 36.5	1.791	2.705	11.4	16.4
5 31	13 36.11	-9 11.6	2.040	2.856	14.3	21.8	5 31	13 30.77	-21 55.0	1.852	2.693	14.6	16.6
<b>148722</b>	2001 <i>TN</i> <sub>64</sub>		4 22.2 49°21	0°2/22.4	18		<b>205727</b>	2002 <i>AN</i> <sub>134</sub>		4 22.2 174°16	2°2/20.5	16	
3 22	14 20.58	-17 39.3	1.637	2.504	13.9	19.2	3 22	14 25.41	-9 15.7	1.654	2.531	13.3	20.9
4 1	14 15.81	-16 23.4	1.570	2.507	10.0	18.9	4 1	14 19.22	-8 23.5	1.589	2.533	9.4	20.6
4 11	14 9.08	-14 49.9	1.526	2.510	5.5	18.7	4 11	14 10.96	-7 24.0	1.548	2.535	5.1	20.4
4 21	14 1.24	-13 5.1	1.509	2.513	0.7	18.3	4 21	14 1.50	-6 22.7	1.534	2.536	2.2	20.2
5 1	13 53.38	-11 17.5	1.519	2.517	4.2	18.6	5 1	13 51.97	-5 26.5	1.548	2.537	5.5	20.4
5 11	13 46.55	-9 36.8	1.557	2.520	8.8	18.9	5 11	13 43.48	-4 41.8	1.588	2.537	9.8	20.7
5 21	13 41.54	-8 10.7	1.618	2.524	12.9	19.1	5 21	13 36.89	-4 12.7	1.651	2.537	13.7	20.9
5 31	13 38.83	-7 4.2	1.701	2.527	16.3	19.3	5 31	13 32.72	-4 1.3	1.734	2.536	17.0	21.1
<b>243738</b>	2000 <i>PP</i> <sub>6</sub>		4 22.2 223°13	14°5/8.1	18		<b>29199</b>	Himeji		4 22.2 226°13	4°3/24.9	18	
3 22	14 24.75	+12 55.0	1.157	2.042	17.1	20.3	3 22	14 28.29	-23 5.9	1.823	2.654	14.3	17.3
4 1	14 19.42	+16 21.4	1.118	2.036	15.0	20.1	4 1	14 21.49	-23 43.5	1.742	2.651	11.1	17.1
4 11	14 11.29	+19 30.1	1.102	2.030	14.6	20.1	4 11	14 12.33	-24 6.0	1.685	2.647	7.6	16.9
4 21	14 1.51	+22 2.0	1.109	2.023	16.1	20.1	4 21	14 1.67	-24 12.0	1.653	2.644	4.7	16.7
5 1	13 51.59	+23 43.8	1.137	2.015	18.8	20.3	5 1	13 50.68	-24 3.0	1.650	2.640	5.1	16.7
5 11	13 43.07	+24 31.4	1.182	2.007	21.8	20.4	5 11	13 40.60	-23 43.0	1.673	2.636	8.3	16.9
5 21	13 37.06	+24 28.8	1.241	1.998	24.6	20.6	5 21	13 32.46	-23 17.9	1.721	2.632	11.9	17.1
5 31	13 34.16	+23 43.9	1.310	1.988	27.0	20.8	5 31	13 26.92	-22 53.9	1.791	2.627	15.2	17.3
<b>99800</b>	2002 <i>LF</i> <sub>7</sub>		4 22.2 55°23	2°6/19.9	18		<b>57110</b>	2001 <i>OV</i> <sub>79</sub>		4 22.2 105°03	5°2/16.5	18	
3 22	14 20.97	-8 59.3	1.622	2.507	13.1	18.9	3 22	14 23.51	-0 42.9	2.060	2.936	11.1	19.3
4 1	14 15.93	-7 50.1	1.574	2.522	9.1	18.7	4 1	14 17.30	+1 14.2	2.025	2.964	8.0	19.2
4 11	14 9.06	-6 34.6	1.551	2.538	4.9	18.5	4 11	14 9.66	+3 8.9	2.018	2.990	5.7	19.1
4 21	14 1.24	-5 19.7	1.554	2.554	2.6	18.4	4 21	14 1.35	+4 53.1	2.040	3.016	5.5	19.1
5 1	13 53.52	-4 12.6	1.583	2.571	5.7	18.6	5 1	13 53.22	+6 20.0	2.091	3.041	7.6	19.3
5 11	13 46.88	-3 19.8	1.639	2.587	9.7	18.9	5 11	13 46.05	+7 25.1	2.169	3.066	10.3	19.5
5 21	13 42.00	-2 44.8	1.717	2.604	13.2	19.1	5 21	13 40.40	+8 7.1	2.271	3.089	12.9	19.7
5 31	13 39.34	-2 28.9	1.816	2.621	16.2	19.4	5 31	13 36.64	+8 26.9	2.391	3.112	15.0	19.9
<b>225556</b>	2000 <i>SV</i> <sub>317</sub>		4 22.2 242°80	4°6/26.7	18		<b>253032</b>	2002 <i>RN</i> <sub>272</sub>		4 22.2 131°96	2°5/24.2	16	
3 22	14 24.06	-28 52.2	2.236	3.038	13.0	20.5	3 22	14 26.33	-20 37.8	1.867	2.709	13.6	21.7
4 1	14 18.19	-28 40.7	2.136	3.022	10.4	20.3	4 1	14 19.76	-20 29.7	1.801	2.721	10.1	21.5
4 11	14 10.41	-28 9.3	2.058	3.005	7.6	20.1	4 11	14 11.20	-20 6.5	1.759	2.732	6.3	21.3
4 21	14 1.42	-27 18.1	2.007	2.988	5.2	19.9	4 21	14 1.54	-19 29.9	1.743	2.742	2.8	21.1
5 1	13 52.17	-26 9.7	1.984	2.970	4.9	19.9	5 1	13 51.84	-18 44.0	1.755	2.752	3.9	21.2
5 11	13 43.66	-24 49.7	1.989	2.951	7.3	20.0	5 11	13 43.17	-17 54.8	1.796	2.762	7.6	21.4
5 21	13 36.70	-23 25.3	2.021	2.932	10.4	20.1	5 21	13 36.34	-17 8.3	1.861	2.771	11.2	21.7
5 31	13 31.89	-22 3.9	2.076	2.912	13.4	20.3	5 31	13 31.85	-16 29.6	1.948	2.779	14.4	21.9
<b>312659</b>	2010 <i>KV</i> <sub>90</sub>		4 22.2 251°79	1°1/23.4	17		<b>471271</b>	2011 <i>FZ</i> <sub>6</sub>		4 22.2 278°38	3°4/19.2	17	
3 22	14 20.06	-18 9.5	2.625	3.470	10.0	21.4	3 22	14 21.02	-6 17.2	1.767	2.651	12.2	20.7
4 1	14 14.99	-17 45.5	2.533	3.457	7.4	21.2	4 1	14 16.04	-5 9.1	1.699	2.646	8.6	20.5
4 11	14 8.52	-17 11.3	2.466	3.444	4.3	21.0	4 11	14 9.22	-3 56.0	1.656	2.642	5.0	20.2
4 21	14 1.22	-16 28.6	2.428	3.430	1.4	20.8	4 21	14 1.33	-2 44.6	1.640	2.637	3.5	20.1
5 1	13 53.75	-15 40.8	2.419	3.416	2.8	20.9	5 1	13 53.33	-1 41.8	1.651	2.632	6.3	20.3
5 11	13 46.85	-14 52.1	2.438	3.402	6.0	21.1	5 11	13 46.21	-0 53.7	1.688	2.628	10.1	20.5
5 21	13 41.10	-14 6.7	2.485	3.388	9.0	21.2	5 21	13 40.72	-0 23.9	1.748	2.623	13.6	20.7
5 31	13 36.96	-13 28.4	2.555	3.373	11.7	21.4	5 31	13 37.39	-0 13.7	1.827	2.619	16.7	20.9
<b>24448</b>	2000 <i>QE</i> <sub>42</sub>		4 22.2 218°86	1°6/19.2	18		<b>88903</b>	2001 <i>TL</i>		4 22.2 334°92	0°7/21.7	17	
3 22	14 13.51	-4 45.2	4.513	5.383</									

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>252923</b>	2002 <i>NU</i> <sub>40</sub>		4 22.2 299°93	2°8/20.4	17		<b>28005</b>	1997 <i>XC</i>		4 22.2 57°62	3°5/25.9	18	
3 22	14 23.20	- 8 10.9	1.412	2.300	14.4	20.6	3 22	14 21.63	-26 2.1	1.907	2.734	14.0	17.2
4 1	14 18.24	- 7 29.1	1.328	2.277	10.3	20.3	4 1	14 16.29	-25 23.0	1.853	2.759	10.7	17.0
4 11	14 10.74	- 6 39.3	1.266	2.254	5.7	19.9	4 11	14 9.25	-24 24.2	1.822	2.784	7.1	16.9
4 21	14 1.53	- 5 47.2	1.229	2.230	2.8	19.7	4 21	14 1.35	-23 8.6	1.817	2.810	4.0	16.7
5 1	13 51.85	- 5 0.4	1.217	2.208	6.5	19.8	5 1	13 53.59	-21 42.1	1.841	2.835	4.1	16.8
5 11	13 43.07	- 4 26.1	1.230	2.185	11.5	20.1	5 11	13 46.90	-20 12.3	1.891	2.860	7.0	17.0
5 21	13 36.33	- 4 9.6	1.264	2.162	16.2	20.3	5 21	13 41.92	-18 46.8	1.968	2.886	10.3	17.2
5 31	13 32.40	- 4 13.5	1.316	2.140	20.3	20.5	5 31	13 39.06	-17 31.4	2.068	2.911	13.2	17.5
<b>428945</b>	2008 <i>XV</i> <sub>35</sub>		4 22.2 285°56	3°3/25.1	17		<b>200635</b>	2001 <i>ST</i> <sub>208</sub>		4 22.2 317°61	3°1/20.2	18	
3 22	14 21.90	-23 24.8	1.919	2.757	13.5	21.2	3 22	14 22.30	- 8 49.3	1.185	2.082	15.9	20.1
4 1	14 16.82	-23 13.2	1.830	2.744	10.3	21.0	4 1	14 17.76	- 7 52.1	1.118	2.071	11.3	19.8
4 11	14 9.74	-22 44.0	1.763	2.731	6.8	20.7	4 11	14 10.50	- 6 44.7	1.071	2.060	6.2	19.5
4 21	14 1.41	-21 58.1	1.723	2.718	3.8	20.5	4 21	14 1.52	- 5 34.9	1.049	2.050	3.1	19.3
5 1	13 52.81	-20 59.2	1.709	2.704	4.2	20.5	5 1	13 52.24	- 4 32.2	1.050	2.041	7.2	19.5
5 11	13 45.01	-19 53.6	1.723	2.691	7.6	20.7	5 11	13 44.18	- 3 45.8	1.074	2.032	12.5	19.7
5 21	13 38.87	-18 48.2	1.762	2.678	11.3	20.9	5 21	13 38.45	- 3 21.3	1.119	2.023	17.3	20.0
5 31	13 34.99	-17 49.6	1.822	2.665	14.7	21.1	5 31	13 35.78	- 3 20.9	1.180	2.015	21.5	20.2
<b>297074</b>	2010 <i>JS</i> <sub>129</sub>		4 22.2 261°90	6°0/15.7	18		<b>268030</b>	2004 <i>PE</i> <sub>9</sub>		4 22.2 242°04	1°4/21.0	18	
3 22	14 20.57	+ 6 24.5	2.427	3.298	9.8	20.7	3 22	14 23.21	-10 17.0	2.106	2.974	11.2	21.3
4 1	14 15.33	+ 7 20.2	2.360	3.287	7.7	20.5	4 1	14 17.48	- 9 39.4	2.020	2.960	8.0	21.0
4 11	14 8.71	+ 8 9.9	2.319	3.276	6.2	20.4	4 11	14 10.01	- 8 54.9	1.960	2.946	4.3	20.8
4 21	14 1.28	+ 8 48.4	2.305	3.265	6.2	20.4	4 21	14 1.46	- 8 7.1	1.928	2.931	1.4	20.5
5 1	13 53.76	+ 9 11.5	2.319	3.254	7.9	20.4	5 1	13 52.70	- 7 21.0	1.924	2.916	4.3	20.7
5 11	13 46.87	+ 9 16.7	2.358	3.242	10.1	20.6	5 11	13 44.63	- 6 41.6	1.949	2.900	8.2	20.9
5 21	13 41.20	+ 9 3.6	2.420	3.231	12.4	20.7	5 21	13 38.01	- 6 12.8	1.998	2.884	11.7	21.1
5 31	13 37.17	+ 8 33.1	2.502	3.219	14.5	20.8	5 31	13 33.37	- 5 57.3	2.069	2.867	14.7	21.3
<b>75489</b>	1999 <i>XO</i> <sub>178</sub>		4 22.2 198°49	0°2/22.0	18 R		<b>276627</b>	2003 <i>UL</i> <sub>149</sub>		4 22.2 212°84	1°4/20.9	17	
3 22	14 26.09	-12 59.1	2.031	2.890	11.9	20.3	3 22	14 23.37	- 9 4.4	2.240	3.107	10.7	20.8
4 1	14 19.52	-12 39.7	1.953	2.887	8.5	20.0	4 1	14 17.44	- 8 40.5	2.163	3.102	7.5	20.6
4 11	14 11.09	-12 12.0	1.899	2.884	4.6	19.8	4 11	14 9.92	- 8 11.9	2.112	3.097	4.1	20.3
4 21	14 1.55	-11 38.7	1.874	2.879	0.5	19.5	4 21	14 1.45	- 7 41.9	2.089	3.092	1.4	20.1
5 1	13 51.85	-11 4.0	1.878	2.874	3.8	19.7	5 1	13 52.85	- 7 14.4	2.095	3.086	4.1	20.3
5 11	13 42.97	-10 32.6	1.910	2.868	7.8	19.9	5 11	13 44.95	- 6 53.2	2.129	3.079	7.6	20.5
5 21	13 35.69	-10 8.6	1.968	2.862	11.5	20.2	5 21	13 38.44	- 6 41.1	2.188	3.073	10.9	20.7
5 31	13 30.56	- 9 55.1	2.047	2.854	14.6	20.4	5 31	13 33.79	- 6 40.1	2.270	3.066	13.7	20.9
<b>402167</b>	2004 <i>RX</i> <sub>304</sub>		4 22.2 228°60	0°7/21.7	16		<b>124166</b>	2001 <i>OE</i> <sub>18</sub>		4 22.2 199°01	1°0/22.9	18	
3 22	14 27.28	-12 0.6	1.846	2.709	12.8	22.2	3 22	14 25.77	-17 18.7	1.503	2.368	15.1	20.2
4 1	14 20.62	-11 33.5	1.759	2.697	9.1	22.0	4 1	14 19.81	-16 47.9	1.431	2.366	11.0	19.9
4 11	14 11.81	-10 57.3	1.698	2.683	5.0	21.7	4 11	14 11.45	-16 0.8	1.382	2.364	6.3	19.7
4 21	14 1.65	-10 15.5	1.663	2.668	0.8	21.4	4 21	14 1.62	-15 0.9	1.358	2.362	1.5	19.3
5 1	13 51.18	- 9 33.0	1.658	2.652	4.4	21.6	5 1	13 51.62	-13 54.6	1.361	2.359	4.3	19.5
5 11	13 41.54	- 8 55.5	1.680	2.636	8.9	21.8	5 11	13 42.75	-12 50.2	1.390	2.356	9.3	19.8
5 21	13 33.64	- 8 27.8	1.727	2.619	12.9	22.0	5 21	13 36.00	-11 55.0	1.442	2.353	13.8	20.0
5 31	13 28.14	- 8 13.2	1.795	2.601	16.4	22.2	5 31	13 31.99	-11 14.7	1.514	2.349	17.6	20.3
<b>149792</b>	2005 <i>GW</i> <sub>24</sub>		4 22.2 346°93	4°5/19.3	17		<b>334869</b>	2003 <i>US</i> <sub>152</sub>		4 22.2 229°81	3°8/18.2	18	
3 22	14 16.70	- 6 39.6	1.013	1.926	16.5	19.1	3 22	14 22.81	- 0 36.5	2.637	3.505	9.2	21.3
4 1	14 13.99	- 5 35.0	0.952	1.912	11.7	18.8	4 1	14 16.87	+ 0 8.4	2.555	3.491	6.7	21.2
4 11	14 8.51	- 4 22.2	0.911	1.901	6.8	18.5	4 11	14 9.55	+ 0 52.5	2.500	3.475	4.5	21.0
4 21	14 1.29	- 3 10.8	0.891	1.890	4.7	18.3	4 21	14 1.41	+ 1 31.7	2.474	3.459	3.9	20.9
5 1	13 53.78	- 2 12.3	0.893	1.882	8.6	18.5	5 1	13 53.12	+ 2 2.0	2.478	3.443	5.7	21.0
5 11	13 47.54	- 1 35.9	0.916	1.876	13.9	18.8	5 11	13 45.40	+ 2 20.2	2.510	3.425	8.3	21.1
5 21	13 43.70	- 1 26.5	0.958	1.871	18.8	19.0	5 21	13 38.82	+ 2 24.8	2.567	3.407	10.9	21.3
5 31	13 42.97	- 1 44.8	1.014	1.868	22.9	19.3	5 31	13 33.83	+ 2 15.3	2.645	3.389	13.2	21.4
<b>179312</b>	2001 <i>VM</i> <sub>126</sub>		4 22.2 181°95	1°0/21.1	17		<b>214500</b>	2005 <i>WA</i> <sub>154</sub>		4 22.2 257°20	2°3/19.8	16	
3 22	14 20.62	-10 30.2	2.808	3.669	8.9	22.1	3 22	14 20.39	- 5 56.8	2.530	3.402	9.4	20.4
4 1	14 15.20	- 9 56.9	2.733	3.670	6.3	21.9	4 1	14 15.22	- 5 20.6	2.448	3.389	6.7	20.2
4 11	14 8.58	- 9 18.8	2.685	3.670	3.4	21.7	4 11	14 8.68	- 4 41.9	2.392	3.376	3.8	20.0
4 21	14 1.28	- 8 38.7	2.666	3.670	1.0	21.5	4 21	14 1.31	- 4 4.3	2.364	3.362	2.4	19.9
5 1	13 53.92	- 8 0.0	2.678	3.669	3.3	21.7	5 1	13 53.81	- 3 31.5	2.365	3.348	4.5	20.0
5 11	13 47.14	- 7 26.2	2.718	3.668	6.2	21.9	5 11	13 46.87	- 3 7.2	2.395	3.334	7.5	20.2
5 21	13 41.43	- 6 59.9	2.785	3.667	8.9	22.0	5 21	13 41.08	- 2 53.7	2.450	3.320	10.4	20.3
5 31	13 37.19	- 6 43.1	2.875	3.665	11.3	22.2	5 31	13 36.88	- 2 52.4	2.526	3.306	12.9	20.5
<b>202293</b>	2005 <i>CQ</i> <sub>27</sub>		4 22.2 133°05	0°1/22.4	17		<b>273719</b>	2007 <i>ED</i> <sub>85</sub>		4 22.2 319°89	6°6/25.9	18	
3 22	14 22.52	-14 50.6	2.310	3.166	10.8	21.6	3 22	14 26.68	-26 27.4	1.570	2.400	16.3	19.9
4 1	14 16.70	-14 17.3	2.245	3.177	7.7	21.4	4 1	14 20.87	-27 28.3	1.484	2.386	13.1	19.6
4 11	14 9.43	-13 35.3	2.206	3.189	4.2	21.2	4 11	14 12.28	-28 11.1	1.420	2.372	9.7	19.4
4 21	14 1.37	-12 47.5	2.195	3.200	0.5	20.9	4 21	14 1.75	-28 32.4	1.379	2.359	7.1	19.2
5 1	13 53.32	-11 58.2	2.214	3.210	3.2	21.2	5 1	13 50.61	-28 31.7	1.364	2.347	7.1	19.1
5 11	13 46.04	-11 12.0	2.261	3.220	6.7	21.4	5 11	13 40.38	-28 12.8	1.373	2.335	9.9	19.3
5 21	13 40.14	-10 33.0	2.334	3.230	9.9	21.6	5 21	13 32.34	-27 42.9	1.406	2.323	13.6	19.5
5 31	13 36.05	-10 4.2	2.430	3.239	12.5	21.8	5 31	13 27.36	-27 10.2	1.458	2.312	17.1	19.6
<b>418129</b>	2007 <i>YE</i> <sub>69</sub>		4 22.2 191°56	3°0/24.6	17		<b>353602</b>	2011 <i>UF</i> <sub>1</sub>					

EPHEMERIDES

4 22.2

4 22.2

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>124631</b>	2001 SW <sub>62</sub>		4 22.2 146°25	0°1/22.2 18			<b>471473</b>	2011 US <sub>341</sub>		4 22.2 198°76	1°0/23.2 17		
3 22	14 28.21	-13 8.9	1.566	2.433	14.4	20.4	3 22	14 22.40	-16 23.6	2.548	3.396	10.2	22.0
4 1	14 21.36	-12 55.4	1.502	2.440	10.3	20.2	4 1	14 16.65	-16 19.0	2.467	3.394	7.4	21.9
4 11	14 12.20	-12 31.9	1.462	2.447	5.6	19.9	4 11	14 9.47	-16 5.9	2.413	3.392	4.3	21.6
4 21	14 1.71	-12 1.8	1.448	2.452	0.6	19.6	4 21	14 1.43	-15 46.1	2.386	3.389	1.2	21.4
5 1	13 51.14	-11 29.8	1.461	2.458	4.5	19.9	5 1	13 53.26	-15 22.1	2.389	3.387	2.9	21.5
5 11	13 41.74	-11 2.0	1.501	2.463	9.2	20.2	5 11	13 45.73	-14 57.4	2.421	3.384	6.1	21.7
5 21	13 34.45	-10 42.9	1.565	2.467	13.4	20.4	5 21	13 39.43	-14 35.5	2.480	3.381	9.1	21.9
5 31	13 29.83	-10 36.0	1.648	2.471	16.9	20.6	5 31	13 34.82	-14 19.4	2.562	3.377	11.7	22.1
<b>426135</b>	2012 HX <sub>22</sub>		4 22.2 283°34	7°1/16.6 17			<b>310048</b>	2010 HU <sub>66</sub>		4 22.2 275°72	7°1/30.7 17		
3 22	14 25.63	+ 5 7.4	1.809	2.684	12.4	20.9	3 22	14 22.53	-38 53.1	2.485	3.223	13.6	20.4
4 1	14 19.53	+ 6 2.9	1.724	2.656	9.7	20.6	4 1	14 17.14	-38 45.5	2.377	3.204	11.7	20.2
4 11	14 11.28	+ 6 52.8	1.663	2.627	7.5	20.4	4 11	14 9.88	-38 13.9	2.290	3.184	9.6	20.0
4 21	14 1.63	+ 7 29.8	1.629	2.598	7.4	20.4	4 21	14 1.48	-37 16.9	2.227	3.164	7.8	19.9
5 1	13 51.59	+ 7 47.7	1.620	2.568	9.6	20.4	5 1	13 52.86	-35 55.9	2.191	3.144	7.1	19.8
5 11	13 42.29	+ 7 42.4	1.637	2.539	12.8	20.5	5 11	13 45.01	-34 15.7	2.181	3.124	8.0	19.8
5 21	13 34.66	+ 7 13.3	1.675	2.508	16.1	20.7	5 21	13 38.71	-32 23.7	2.199	3.103	10.0	19.9
5 31	13 29.36	+ 6 21.9	1.731	2.478	19.1	20.8	5 31	13 34.54	-30 28.2	2.241	3.083	12.3	20.0
<b>88242</b>	2001 CK <sub>35</sub>		4 22.2 340°76	22°0/30.1 18 R			<b>65575</b>	3245 T <sub>-2</sub>		4 22.2 229°09	1°2/23.4 17		
3 22	14 25.45	+31 1.2	1.045	1.881	22.3	18.3	3 22	14 23.05	-16 56.2	2.541	3.386	10.3	20.3
4 1	14 20.21	+33 55.9	1.033	1.879	22.1	18.3	4 1	14 17.17	-16 56.9	2.454	3.379	7.6	20.1
4 11	14 11.79	+36 2.8	1.037	1.876	22.6	18.3	4 11	14 9.78	-16 49.0	2.393	3.371	4.4	19.9
4 21	14 1.66	+37 9.1	1.055	1.875	23.9	18.4	4 21	14 1.47	-16 33.8	2.360	3.363	1.5	19.7
5 1	13 51.67	+37 10.1	1.086	1.873	25.5	18.5	5 1	13 52.99	-16 13.6	2.357	3.355	2.9	19.8
5 11	13 43.55	+36 10.1	1.129	1.872	27.2	18.6	5 11	13 45.11	-15 51.9	2.383	3.346	6.2	20.0
5 21	13 38.38	+34 19.2	1.180	1.871	28.8	18.8	5 21	13 38.46	-15 32.0	2.436	3.337	9.3	20.2
5 31	13 36.64	+31 48.6	1.240	1.870	30.2	18.9	5 31	13 33.55	-15 17.2	2.511	3.328	11.9	20.3
<b>32589</b>	2001 QR <sub>127</sub>		4 22.2 116°81	0°5/22.8 18			<b>9022</b>	Drake		4 22.2 215°70	3°3/26.6 18		
3 22	14 21.28	-16 29.5	2.750	3.597	9.6	19.5	3 22	14 20.55	-27 47.6	2.975	3.773	10.2	18.9
4 1	14 15.60	-15 50.0	2.690	3.617	6.9	19.4	4 1	14 15.26	-27 20.4	2.879	3.765	8.0	18.7
4 11	14 8.76	-15 2.0	2.657	3.638	3.8	19.2	4 11	14 8.67	-26 38.2	2.808	3.757	5.7	18.6
4 21	14 1.32	-14 8.4	2.653	3.657	0.7	19.0	4 21	14 1.34	-25 42.1	2.765	3.748	3.7	18.4
5 1	13 53.94	-13 12.8	2.680	3.677	2.7	19.2	5 1	13 53.92	-24 34.7	2.751	3.739	3.6	18.4
5 11	13 47.24	-12 19.5	2.736	3.695	5.7	19.4	5 11	13 47.08	-23 20.6	2.767	3.729	5.5	18.5
5 21	13 41.72	-11 32.1	2.819	3.713	8.4	19.6	5 21	13 41.36	-22 4.8	2.811	3.719	7.9	18.7
5 31	13 37.73	-10 53.5	2.926	3.731	10.7	19.8	5 31	13 37.19	-20 52.0	2.881	3.709	10.3	18.8
<b>123434</b>	2000 WD <sub>119</sub>		4 22.2 199°40	4°3/26.7 18			<b>2269</b>	Efremiana		4 22.2 96°67	4°5/18.4 18		
3 22	14 23.92	-28 24.0	2.399	3.199	12.3	20.2	3 22	14 23.30	+ 1 29.7	2.282	3.154	10.3	16.0
4 1	14 17.92	-28 13.0	2.310	3.195	9.8	20.0	4 1	14 17.23	+ 1 57.6	2.226	3.162	7.6	15.9
4 11	14 10.21	-27 44.0	2.244	3.191	7.0	19.8	4 11	14 9.73	+ 2 21.5	2.197	3.170	5.2	15.7
4 21	14 1.50	-26 57.5	2.206	3.187	4.7	19.6	4 21	14 1.47	+ 2 37.4	2.195	3.178	4.6	15.7
5 1	13 52.65	-25 56.4	2.196	3.181	4.5	19.6	5 1	13 53.22	+ 2 42.0	2.222	3.186	6.3	15.8
5 11	13 44.55	-24 45.7	2.214	3.175	6.7	19.7	5 11	13 45.75	+ 2 33.2	2.276	3.194	9.0	16.0
5 21	13 37.92	-23 31.8	2.259	3.169	9.5	19.9	5 21	13 39.65	+ 2 10.8	2.354	3.201	11.6	16.2
5 31	13 33.28	-22 20.8	2.329	3.162	12.2	20.1	5 31	13 35.33	+ 1 35.1	2.453	3.209	13.8	16.4
<b>422897</b>	2002 RZ <sub>70</sub>		4 22.2 251°19	1°6/23.6 17			<b>36200</b>	1999 TA <sub>97</sub>		4 22.2 226°72	4°8/15.9 18		
3 22	14 24.55	-19 14.0	1.918	2.766	13.0	21.5	3 22	14 18.76	+ 3 5.8	2.761	3.634	8.7	18.9
4 1	14 18.73	-18 45.6	1.822	2.747	9.7	21.2	4 1	14 13.94	+ 4 17.6	2.692	3.625	6.6	18.7
4 11	14 10.83	-18 1.6	1.750	2.728	5.8	21.0	4 11	14 7.95	+ 5 26.6	2.652	3.616	5.0	18.6
4 21	14 1.58	-17 4.0	1.706	2.708	2.0	20.7	4 21	14 1.27	+ 6 27.9	2.639	3.607	5.0	18.6
5 1	13 52.00	-15 57.4	1.689	2.687	3.8	20.7	5 1	13 54.52	+ 7 17.2	2.656	3.598	6.6	18.7
5 11	13 43.18	-14 48.7	1.700	2.666	8.0	20.9	5 11	13 48.30	+ 7 51.3	2.699	3.588	8.8	18.8
5 21	13 36.02	-13 44.6	1.737	2.644	12.0	21.1	5 21	13 43.12	+ 8 8.9	2.765	3.578	11.0	19.0
5 31	13 31.17	-12 51.2	1.796	2.621	15.6	21.3	5 31	13 39.36	+ 8 9.9	2.852	3.568	12.9	19.1
<b>372509</b>	2009 SZ <sub>283</sub>		4 22.2 63°73	4°5/18.2 17			<b>85047</b>	Krakatau		4 22.2 243°48	8°2/14.6 18		
3 22	14 20.90	- 4 24.2	1.657	2.545	12.6	20.7	3 22	14 22.61	- 4 31.1	1.090	1.993	16.4	18.5
4 1	14 15.97	- 2 57.2	1.602	2.550	9.0	20.5	4 1	14 18.01	- 0 59.2	1.033	1.987	11.9	18.2
4 11	14 9.18	- 1 27.2	1.571	2.554	5.6	20.3	4 11	14 10.64	+ 2 46.1	1.000	1.980	8.5	18.0
4 21	14 1.38	- 0 2.4	1.566	2.558	4.6	20.2	4 21	14 1.59	+ 6 23.3	0.994	1.973	9.2	18.0
5 1	13 53.56	+ 1 9.4	1.589	2.563	7.4	20.4	5 1	13 52.39	+ 9 30.2	1.013	1.966	13.3	18.2
5 11	13 46.73	+ 2 1.9	1.637	2.567	11.0	20.6	5 11	13 44.55	+11 51.7	1.054	1.958	18.0	18.4
5 21	13 41.61	+ 2 32.3	1.707	2.572	14.4	20.8	5 21	13 39.19	+13 22.9	1.113	1.950	22.2	18.7
5 31	13 38.70	+ 2 40.2	1.795	2.577	17.3	21.0	5 31	13 36.92	+14 6.3	1.185	1.942	25.7	18.9
<b>186601</b>	2003 BN <sub>86</sub>		4 22.2 101°35	7°1/17.3 18			<b>69787</b>	1998 QH <sub>80</sub>		4 22.2 296°03	2°3/20.0 18		
3 22	14 26.78	+ 5 52.6	1.735	2.609	12.9	20.3	3 22	14 20.79	-10 32.4	1.839	2.716	12.1	19.3
4 1	14 19.96	+ 6 37.6	1.689	2.620	9.9	20.2	4 1	14 16.14	- 9 12.6	1.736	2.681	8.6	19.0
4 11	14 11.27	+ 7 13.3	1.669	2.632	7.6	20.1	4 11	14 9.48	- 7 39.8	1.659	2.646	4.7	18.7
4 21	14 1.61	+ 7 33.7	1.674	2.643	7.3	20.1	4 21	14 1.47	- 6 0.1	1.609	2.610	2.3	18.5
5 1	13 52.05	+ 7 34.3	1.706	2.654	9.2	20.2	5 1	13 53.05	- 4 21.4	1.587	2.575	5.7	18.6
5 11	13 43.61	+ 7 13.7	1.762	2.665	12.0	20.4	5 11	13 45.26	- 2 52.5	1.592	2.539	10.1	18.8
5 21	13 37.03	+ 6 32.9	1.841	2.675	14.8	20.6	5 21	13 38.99	- 1 40.3	1.621	2.503	14.2	18.9
5 31	13 32.76	+ 5 34.8	1.938	2.686	17.3	20.8	5 31	13 34.93	- 0 49.3	1.670	2.466	17.8	19.1
<b>205642</b>	2001 XU <sub>23</sub>		4 22.2 208°21	0°5/21.9 18			<b>21735</b>	Nissaschmidt		4 22.2 292°00	4°8/25.5 18		
3 22	14 27.93	-12 13.6	1.749	2.614	13.3	20.4							

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4 22.2

4 22.3

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>454744</b>	2014 <i>UL</i> <sub>133</sub>		4 22.2 140°72	1°3/19.9	18		<b>269522</b>	2009 <i>UP</i> <sub>152</sub>		4 22.3 93°92	2°1/25.1	18	
3 22	14 14.01	− 6 0.6	4.566	5.434	5.6	21.2	3 22	14 19.31	−22 35.1	3.450	4.269	8.5	22.1
4 1	14 10.24	− 5 35.2	4.496	5.436	3.9	21.1	4 1	14 14.13	−22 28.1	3.387	4.291	6.4	22.0
4 11	14 5.82	− 5 8.8	4.454	5.438	2.2	21.0	4 11	14 7.98	−22 11.9	3.349	4.312	4.2	21.9
4 21	14 1.04	− 4 43.3	4.441	5.440	1.3	20.9	4 21	14 1.31	−21 47.6	3.340	4.333	2.3	21.8
5 1	13 56.24	− 4 20.4	4.459	5.441	2.6	21.0	5 1	13 54.65	−21 17.3	3.361	4.354	2.6	21.8
5 11	13 51.74	− 4 1.9	4.506	5.443	4.3	21.1	5 11	13 48.53	−20 43.8	3.412	4.375	4.5	22.0
5 21	13 47.84	− 3 49.0	4.579	5.445	6.0	21.3	5 21	13 43.34	−20 10.0	3.490	4.395	6.6	22.1
5 31	13 44.76	− 3 42.7	4.677	5.447	7.5	21.4	5 31	13 39.42	−19 38.8	3.593	4.415	8.6	22.3
<b>96112</b>	5063 <i>T</i> <sub>2</sub>		4 22.2 155°93	1°5/23.5	18		<b>161549</b>	2004 <i>XN</i> <sub>49</sub>		4 22.3 196°00	2°3/20.3	18	
3 22	14 25.42	−19 26.7	1.679	2.532	14.4	19.0	3 22	14 24.96	− 8 59.3	1.810	2.683	12.5	20.5
4 1	14 19.30	−18 45.4	1.611	2.538	10.5	18.7	4 1	14 18.86	− 7 59.5	1.738	2.681	8.8	20.2
4 11	14 11.07	−17 46.8	1.565	2.544	6.2	18.5	4 11	14 10.82	− 6 52.4	1.692	2.678	4.8	20.0
4 21	14 1.64	−16 34.6	1.546	2.549	1.9	18.2	4 21	14 1.64	− 5 43.6	1.673	2.674	2.4	19.8
5 1	13 52.15	−15 15.3	1.555	2.553	3.9	18.4	5 1	13 52.35	− 4 39.9	1.683	2.670	5.4	20.0
5 11	13 43.77	−13 57.0	1.591	2.557	8.4	18.6	5 11	13 43.98	− 3 47.5	1.719	2.665	9.5	20.2
5 21	13 37.33	−12 47.3	1.652	2.561	12.4	18.9	5 21	13 37.33	− 3 10.8	1.780	2.660	13.2	20.4
5 31	13 33.37	−11 51.6	1.734	2.564	15.9	19.1	5 31	13 32.94	− 2 52.0	1.861	2.653	16.4	20.6
<b>466711</b>	2014 <i>WH</i> <sub>462</sub>		4 22.2 217°31	1°3/21.2	17		<b>246773</b>	2009 <i>CQ</i> <sub>51</sub>		4 22.3 280°67	6°2/17.7	17	
3 22	14 25.41	−10 53.4	1.912	2.779	12.2	22.2	3 22	14 23.78	− 0 26.4	1.428	2.319	14.1	19.8
4 1	14 19.17	−10 16.1	1.832	2.771	8.7	21.9	4 1	14 18.41	+ 0 47.0	1.366	2.312	10.4	19.6
4 11	14 11.00	− 9 30.9	1.777	2.762	4.7	21.7	4 11	14 10.72	+ 1 59.5	1.326	2.304	7.1	19.3
4 21	14 1.64	− 8 41.8	1.749	2.753	1.3	21.4	4 21	14 1.64	+ 3 2.3	1.311	2.297	6.5	19.3
5 1	13 52.08	− 7 54.0	1.751	2.743	4.5	21.6	5 1	13 52.40	+ 3 47.1	1.322	2.290	9.3	19.4
5 11	13 43.35	− 7 13.1	1.779	2.732	8.7	21.8	5 11	13 44.24	+ 4 8.3	1.356	2.282	13.1	19.6
5 21	13 36.27	− 6 43.5	1.833	2.721	12.5	22.0	5 21	13 38.11	+ 4 4.3	1.411	2.275	16.9	19.8
5 31	13 31.41	− 6 28.0	1.907	2.709	15.7	22.2	5 31	13 34.61	+ 3 36.1	1.483	2.268	20.1	20.0
<b>219</b>	Thusnelda		4 22.2 249°22	1°2/21.1	18		<b>228335</b>	2000 <i>SW</i> <sub>64</sub>		4 22.3 165°79	3°1/19.0	17	
3 22	14 23.44	−12 57.4	1.815	2.684	12.7	13.5	3 22	14 21.38	− 6 52.4	2.059	2.936	11.1	20.5
4 1	14 17.93	−11 48.3	1.726	2.667	9.0	13.2	4 1	14 16.07	− 5 30.3	1.995	2.939	7.8	20.3
4 11	14 10.39	−10 26.0	1.662	2.649	4.9	13.0	4 11	14 9.20	− 4 3.2	1.958	2.942	4.5	20.1
4 21	14 1.58	− 8 55.9	1.626	2.630	1.2	12.7	4 21	14 1.46	− 2 37.5	1.949	2.945	3.2	20.0
5 1	13 52.49	− 7 25.4	1.618	2.610	4.8	12.9	5 1	13 53.70	− 1 19.9	1.968	2.947	5.7	20.2
5 11	13 44.20	− 6 2.8	1.637	2.590	9.3	13.1	5 11	13 46.74	− 0 16.2	2.016	2.949	9.1	20.4
5 21	13 37.58	− 4 54.6	1.681	2.570	13.4	13.3	5 21	13 41.23	+ 0 30.1	2.087	2.950	12.2	20.6
5 31	13 33.24	− 4 5.3	1.746	2.549	16.9	13.5	5 31	13 37.60	+ 0 57.5	2.179	2.952	14.9	20.8
<b>124439</b>	2001 <i>QG</i> <sub>249</sub>		4 22.2 197°23	2°0/23.7	17		<b>510289</b>	2011 <i>OX</i> <sub>1</sub>		4 22.3 327°67	3°1/27.2	18	
3 22	14 28.28	−18 53.1	1.785	2.632	13.9	21.1	3 22	14 15.74	−28 33.2	3.958	4.748	8.0	20.9
4 1	14 21.41	−18 47.7	1.705	2.629	10.3	20.8	4 1	14 11.68	−28 29.6	3.866	4.743	6.4	20.8
4 11	14 12.29	−18 27.9	1.650	2.626	6.2	20.6	4 11	14 6.69	−28 15.4	3.798	4.737	4.7	20.7
4 21	14 1.79	−17 55.2	1.621	2.622	2.4	20.3	4 21	14 1.18	−27 51.3	3.758	4.732	3.4	20.6
5 1	13 51.06	−17 13.5	1.620	2.617	4.0	20.4	5 1	13 55.59	−27 18.7	3.746	4.726	3.2	20.6
5 11	13 41.30	−16 28.7	1.646	2.611	8.2	20.6	5 11	13 50.39	−26 39.9	3.764	4.721	4.4	20.6
5 21	13 33.45	−15 47.1	1.698	2.605	12.3	20.9	5 21	13 45.96	−25 57.9	3.808	4.716	6.1	20.7
5 31	13 28.15	−15 14.0	1.771	2.598	15.7	21.1	5 31	13 42.63	−25 15.7	3.879	4.711	7.8	20.9
<b>349854</b>	2009 <i>DX</i> <sub>18</sub>		4 22.2 42°66	2°8/19.6	17		<b>239023</b>	2006 <i>DC</i> <sub>108</sub>		4 22.3 147°79	1°1/21.2	17	
3 22	14 20.06	− 6 37.8	1.969	2.850	11.3	20.7	3 22	14 22.02	−11 34.9	2.114	2.982	11.2	21.2
4 1	14 15.18	− 5 43.8	1.910	2.856	7.9	20.5	4 1	14 16.51	−10 47.8	2.048	2.988	7.9	21.0
4 11	14 8.71	− 4 46.3	1.876	2.861	4.5	20.3	4 11	14 9.44	− 9 53.2	2.007	2.993	4.2	20.8
4 21	14 1.38	− 3 50.5	1.869	2.867	2.8	20.2	4 21	14 1.49	− 8 55.3	1.994	2.998	1.1	20.5
5 1	13 54.02	− 3 2.0	1.889	2.873	5.4	20.4	5 1	13 53.51	− 7 59.3	2.010	3.003	4.0	20.8
5 11	13 47.49	− 2 25.4	1.937	2.879	8.8	20.6	5 11	13 46.34	− 7 10.3	2.054	3.007	7.7	21.0
5 21	13 42.42	− 2 3.5	2.008	2.885	12.0	20.8	5 21	13 40.62	− 6 32.3	2.123	3.011	11.0	21.2
5 31	13 39.27	− 1 57.6	2.099	2.892	14.7	21.0	5 31	13 36.78	− 6 7.8	2.214	3.015	13.8	21.4
<b>369852</b>	2012 <i>JA</i> <sub>51</sub>		4 22.3 227°44	4°2/18.5	17		<b>465339</b>	2007 <i>VC</i> <sub>167</sub>		4 22.3 52°00	0°6/22.6	16	
3 22	14 22.71	− 3 26.0	1.871	2.752	11.8	21.3	3 22	14 24.48	−15 59.2	1.259	2.137	16.5	21.5
4 1	14 17.22	− 2 19.4	1.801	2.745	8.5	21.1	4 1	14 18.90	−15 26.7	1.214	2.157	11.8	21.3
4 11	14 9.91	− 1 10.8	1.757	2.738	5.3	20.8	4 11	14 10.91	−14 38.9	1.192	2.177	6.5	21.1
4 21	14 1.53	− 0 6.4	1.740	2.731	4.3	20.8	4 21	14 1.65	−13 41.1	1.193	2.198	1.1	20.8
5 1	13 53.02	+ 0 47.1	1.750	2.723	6.8	20.9	5 1	13 52.55	−12 40.9	1.220	2.219	4.6	21.1
5 11	13 45.35	+ 1 24.6	1.787	2.716	10.3	21.1	5 11	13 44.92	−11 46.8	1.272	2.240	9.7	21.4
5 21	13 39.27	+ 1 43.4	1.846	2.707	13.7	21.3	5 21	13 39.64	−11 5.1	1.345	2.262	14.1	21.7
5 31	13 35.30	+ 1 42.7	1.925	2.699	16.5	21.5	5 31	13 37.18	−10 39.9	1.438	2.284	17.7	22.0
<b>344533</b>	2002 <i>TJ</i> <sub>245</sub>		4 22.3 247°44	1°6/20.8	15		<b>147018</b>	2002 <i>QG</i> <sub>34</sub>		4 22.3 254°57	0°1/22.2	17	
3 22	14 23.26	− 8 11.7	2.387	3.254	10.1	21.4	3 22	14 25.15	−13 55.3	1.794	2.659	13.0	21.5
4 1	14 17.39	− 7 48.2	2.299	3.238	7.2	21.2	4 1	14 19.24	−13 31.1	1.706	2.643	9.4	21.2
4 11	14 9.95	− 7 20.7	2.237	3.222	3.9	21.0	4 11	14 11.17	−12 55.9	1.641	2.626	5.2	20.9
4 21	14 1.54	− 6 52.3	2.203	3.205	1.6	20.8	4 21	14 1.71	−12 12.9	1.604	2.608	0.6	20.5
5 1	13 52.92	− 6 26.7	2.199	3.188	4.1	20.9	5 1	13 51.91	−11 26.9	1.594	2.591	4.2	20.8
5 11	13 44.90	− 6 7.4	2.223	3.171	7.5	21.1	5 11	13 42.92	−10 44.0	1.611	2.572	8.7	21.0
5 21	13 38.15	− 5 57.3	2.273	3.153	10.7	21.3	5 21	13 35.66	−10 9.5	1.653	2.554	12.9	21.2
5 31	13 33.16	− 5 58.2	2.345	3.135	13.5	21.4	5 31	13 30.79	− 9 47.7	1.715	2.535	16.5	21.4
<b>136969</b>	1998 <i>RG</i> <sub>41</sub> </												

EPHEMERIDES

4 22.3

4 22.3

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>141966</b>	2002 <i>PV</i> <sub>122</sub>		4 22.3 204°84	0°4/22.6	17		<b>501511</b>	2014 <i>DC</i> <sub>116</sub>		4 22.3 143°27	3°0/25.0	17	
3 22	14 23.80	-16 11.2	1.870	2.729	12.8	20.4	3 22	14 23.18	-22 39.3	2.418	3.245	11.4	21.4
4 1	14 18.06	-15 28.3	1.792	2.726	9.2	20.2	4 1	14 17.35	-22 47.6	2.341	3.249	8.7	21.2
4 11	14 10.41	-14 32.1	1.739	2.722	5.2	19.9	4 11	14 9.93	-22 43.3	2.288	3.252	5.7	21.0
4 21	14 1.61	-13 26.4	1.713	2.717	0.8	19.6	4 21	14 1.59	-22 26.9	2.262	3.255	3.3	20.9
5 1	13 52.68	-12 17.1	1.715	2.712	3.8	19.8	5 1	13 53.13	-22 0.8	2.265	3.258	3.6	20.9
5 11	13 44.62	-11 11.0	1.745	2.707	8.1	20.0	5 11	13 45.37	-21 28.7	2.297	3.261	6.3	21.1
5 21	13 38.26	-10 14.1	1.800	2.701	12.0	20.3	5 21	13 38.98	-20 55.2	2.355	3.264	9.2	21.2
5 31	13 34.11	-9 30.9	1.876	2.695	15.3	20.5	5 31	13 34.45	-20 24.6	2.436	3.266	11.8	21.4
<b>224820</b>	2006 <i>VM</i> <sub>89</sub>		4 22.3 297°89	1°4/23.2	17		<b>288813</b>	2004 <i>RO</i> <sub>172</sub>		4 22.3 277°89	3°3/24.9	17	
3 22	14 23.73	-17 7.1	1.493	2.361	15.0	20.4	3 22	14 23.53	-22 58.9	1.856	2.694	13.8	20.9
4 1	14 18.70	-16 56.2	1.401	2.337	11.1	20.1	4 1	14 18.18	-22 50.8	1.759	2.674	10.6	20.6
4 11	14 11.09	-16 29.9	1.331	2.313	6.5	19.7	4 11	14 10.66	-22 24.9	1.685	2.654	7.0	20.4
4 21	14 1.72	-15 50.2	1.286	2.289	1.9	19.4	4 21	14 1.70	-21 41.7	1.637	2.633	3.8	20.1
5 1	13 51.80	-15 1.6	1.266	2.265	4.5	19.5	5 1	13 52.35	-20 44.7	1.616	2.612	4.3	20.1
5 11	13 42.73	-14 11.4	1.272	2.241	9.6	19.7	5 11	13 43.77	-19 40.0	1.622	2.591	8.0	20.3
5 21	13 35.67	-13 27.2	1.300	2.218	14.5	19.9	5 21	13 36.90	-18 35.1	1.653	2.569	12.0	20.5
5 31	13 31.44	-12 55.3	1.348	2.194	18.7	20.1	5 31	13 32.44	-17 36.9	1.706	2.548	15.6	20.6
<b>290939</b>	2005 <i>WN</i> <sub>149</sub>		4 22.3 141°63	0°8/21.8	18		<b>501522</b>	2014 <i>EG</i> <sub>29</sub>		4 22.3 102°71	1°8/20.5	17	
3 22	14 28.41	-11 48.5	1.526	2.397	14.5	21.1	3 22	14 21.57	-8 5.2	2.377	3.247	10.1	21.8
4 1	14 21.54	-11 27.6	1.465	2.405	10.3	20.9	4 1	14 15.99	-7 27.7	2.322	3.263	7.0	21.6
4 11	14 12.35	-10 57.7	1.427	2.413	5.6	20.6	4 11	14 9.09	-6 46.9	2.293	3.278	3.8	21.4
4 21	14 1.84	-10 22.7	1.416	2.420	0.9	20.3	4 21	14 1.50	-6 6.3	2.292	3.293	1.8	21.3
5 1	13 51.27	-9 48.2	1.431	2.427	4.8	20.6	5 1	13 53.94	-5 30.0	2.321	3.308	4.1	21.5
5 11	13 41.91	-9 20.0	1.473	2.433	9.5	20.9	5 11	13 47.13	-5 1.6	2.377	3.323	7.2	21.7
5 21	13 34.70	-9 2.7	1.539	2.438	13.7	21.2	5 21	13 41.60	-4 43.5	2.459	3.338	10.1	21.9
5 31	13 30.18	-8 58.9	1.624	2.443	17.2	21.4	5 31	13 37.76	-4 37.1	2.564	3.352	12.5	22.1
<b>123387</b>	2000 <i>WO</i> <sub>66</sub>		4 22.3 227°79	4°6/27.1	18		<b>462152</b>	2007 <i>TF</i> <sub>103</sub>		4 22.3 111°63	1°1/21.4	18	
3 22	14 23.94	-29 43.7	2.358	3.153	12.7	20.2	3 22	14 25.77	-12 7.3	1.664	2.535	13.6	22.3
4 1	14 18.06	-29 28.2	2.260	3.141	10.2	20.0	4 1	14 19.42	-11 22.5	1.610	2.551	9.5	22.1
4 11	14 10.39	-28 53.2	2.186	3.129	7.5	19.8	4 11	14 11.10	-10 28.6	1.580	2.566	5.1	21.9
4 21	14 1.62	-27 58.7	2.138	3.116	5.2	19.6	4 21	14 1.74	-9 30.6	1.577	2.581	1.1	21.6
5 1	13 52.65	-26 47.5	2.118	3.102	4.9	19.6	5 1	13 52.44	-8 34.9	1.602	2.596	4.6	21.9
5 11	13 44.43	-25 25.2	2.127	3.088	6.9	19.7	5 11	13 44.29	-7 47.6	1.653	2.610	8.9	22.2
5 21	13 37.70	-23 58.5	2.163	3.074	9.8	19.9	5 21	13 38.05	-7 13.3	1.729	2.624	12.7	22.4
5 31	13 33.01	-22 34.7	2.223	3.058	12.6	20.0	5 31	13 34.18	-6 54.4	1.825	2.637	15.9	22.7
<b>56687</b>	2000 <i>LE</i> <sub>12</sub>		4 22.3 268°63	3°8/25.8	18		<b>432407</b>	2010 <i>AW</i> <sub>2</sub>		4 22.3 110°02	1°7/23.7	17	
3 22	14 22.12	-25 56.0	1.774	2.605	14.7	17.9	3 22	14 24.37	-18 27.6	1.945	2.795	12.8	21.4
4 1	14 17.08	-25 24.4	1.692	2.601	11.4	17.7	4 1	14 18.39	-18 21.1	1.877	2.803	9.4	21.2
4 11	14 9.95	-24 30.3	1.632	2.596	7.7	17.5	4 11	14 10.56	-18 2.1	1.833	2.811	5.6	21.0
4 21	14 1.57	-23 15.5	1.598	2.591	4.4	17.3	4 21	14 1.68	-17 32.6	1.817	2.818	2.1	20.8
5 1	13 53.03	-21 45.1	1.591	2.586	4.5	17.3	5 1	13 52.73	-16 56.2	1.828	2.825	3.5	20.9
5 11	13 45.47	-20 7.7	1.611	2.581	7.9	17.5	5 11	13 44.69	-16 18.1	1.866	2.833	7.3	21.1
5 21	13 39.73	-18 32.1	1.656	2.576	11.7	17.7	5 21	13 38.33	-15 43.3	1.930	2.840	10.9	21.4
5 31	13 36.38	-17 6.5	1.723	2.571	15.2	17.9	5 31	13 34.14	-15 16.3	2.016	2.847	13.9	21.6
<b>522867</b>	2016 <i>NM</i> <sub>88</sub>		4 22.3 238°56	5°5/16.4	18		<b>437054</b>	2012 <i>UQ</i> <sub>36</sub>		4 22.3 62°40	0°4/22.7	18	
3 22	14 20.37	+ 3 19.0	2.246	3.123	10.2	21.8	3 22	14 19.75	-16 51.4	2.095	2.955	11.6	20.8
4 1	14 15.29	+ 4 23.8	2.185	3.120	7.8	21.6	4 1	14 14.98	-15 59.3	2.025	2.959	8.4	20.6
4 11	14 8.77	+ 5 24.5	2.149	3.116	5.9	21.5	4 11	14 8.65	-14 55.0	1.981	2.963	4.7	20.3
4 21	14 1.43	+ 6 15.5	2.141	3.112	5.8	21.5	4 21	14 1.46	-13 42.4	1.963	2.967	0.8	20.1
5 1	13 54.04	+ 6 51.8	2.160	3.108	7.6	21.6	5 1	13 54.24	-12 27.2	1.974	2.972	3.3	20.3
5 11	13 47.34	+ 7 10.4	2.205	3.104	10.1	21.7	5 11	13 47.80	-11 15.7	2.013	2.976	7.1	20.5
5 21	13 41.94	+ 7 10.3	2.273	3.100	12.6	21.9	5 21	13 42.80	-10 13.1	2.078	2.981	10.5	20.7
5 31	13 38.27	+ 6 52.1	2.360	3.096	14.8	22.0	5 31	13 39.66	-9 23.4	2.165	2.986	13.5	20.9
<b>193574</b>	2001 <i>BB</i>		4 22.3 71°08	2°8/20.1	18		<b>302478</b>	2002 <i>FS</i> <sub>36</sub>		4 22.3 61°74	2°5/23.7	18	
3 22	14 23.54	- 6 2.0	1.785	2.665	12.3	19.2	3 22	14 28.56	-17 48.8	1.329	2.194	16.6	20.2
4 1	14 17.74	- 5 26.8	1.731	2.676	8.7	19.0	4 1	14 21.99	-18 9.2	1.273	2.206	12.3	20.0
4 11	14 10.15	- 4 49.2	1.702	2.687	4.9	18.8	4 11	14 12.75	-18 14.6	1.238	2.217	7.4	19.7
4 21	14 1.60	- 4 14.0	1.700	2.699	2.9	18.7	4 21	14 1.94	-18 5.9	1.227	2.229	2.9	19.5
5 1	13 53.07	- 3 46.2	1.725	2.710	5.5	18.9	5 1	13 51.06	-17 46.9	1.243	2.241	4.7	19.6
5 11	13 45.53	- 3 29.9	1.776	2.722	9.2	19.1	5 11	13 41.58	-17 23.9	1.283	2.253	9.5	19.9
5 21	13 39.70	- 3 27.3	1.851	2.733	12.7	19.4	5 21	13 34.57	-17 3.4	1.346	2.265	13.9	20.2
5 31	13 36.02	- 3 39.3	1.946	2.745	15.5	19.6	5 31	13 30.63	-16 50.9	1.428	2.277	17.7	20.5
<b>188868</b>	2006 <i>UQ</i> <sub>180</sub>		4 22.3 58°66	5°1/18.5	18		<b>38660</b>	2000 <i>OT</i> <sub>48</sub>		4 22.3 232°67	5°5/16.3	18	
3 22	14 23.88	- 2 55.5	1.389	2.281	14.4	19.5	3 22	14 21.89	+ 1 35.1	2.140	3.017	10.7	19.7
4 1	14 18.16	- 1 42.6	1.355	2.303	10.2	19.3	4 1	14 16.51	+ 3 0.1	2.069	3.006	8.0	19.5
4 11	14 10.39	- 0 30.9	1.343	2.326	6.4	19.2	4 11	14 9.51	+ 4 23.5	2.024	2.994	5.9	19.4
4 21	14 1.61	+ 0 31.5	1.357	2.348	5.3	19.2	4 21	14 1.57	+ 5 38.8	2.007	2.981	5.8	19.3
5 1	13 53.06	+ 1 17.2	1.397	2.371	8.0	19.4	5 1	13 53.49	+ 6 39.5	2.018	2.968	7.9	19.4
5 11	13 45.83	+ 1 41.8	1.460	2.395	11.8	19.6	5 11	13 46.11	+ 7 21.0	2.055	2.954	10.7	19.6
5 21	13 40.68	+ 1 44.3	1.545	2.418	15.2	19.9	5 21	13 40.10	+ 7 41.6	2.115	2.940	13.5	19.7
5 31	13 38.00	+ 1 25.8	1.648	2.441	18.1	20.2	5 31	13 35.95	+ 7 41.1	2.194	2.925	15.9	19.9
<b>284204</b>	2006 <i>BM</i> <sub>192</sub>		4 22.3 275°78	3°7/15.0	18		<b>164263</b>	2004 <i>UW</i> <sub>4</sub>		4 22.3 178			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>338527</b>	2003 <i>QH</i> <sub>115</sub>		4 22.3 298°43	2°3/20.1	17		<b>380627</b>	2004 <i>TM</i> <sub>349</sub>		4 22.3 104°00	0°1/22.3	17	
3 22	14 20.25	-10 40.5	1.735	2.615	12.6	20.9	3 22	14 22.67	-14 35.8	1.892	2.757	12.4	21.5
4 1	14 15.84	-9 20.8	1.640	2.586	9.0	20.6	4 1	14 17.19	-14 3.2	1.827	2.763	8.9	21.3
4 11	14 9.38	-7 48.2	1.569	2.556	4.9	20.3	4 11	14 9.93	-13 20.1	1.785	2.769	4.9	21.1
4 21	14 1.58	-6 8.8	1.525	2.527	2.3	20.1	4 21	14 1.66	-12 30.3	1.771	2.775	0.6	20.8
5 1	13 53.41	-4 31.2	1.509	2.497	5.8	20.2	5 1	13 53.34	-11 38.8	1.784	2.781	3.7	21.0
5 11	13 45.94	-3 4.3	1.519	2.467	10.3	20.4	5 11	13 45.93	-10 51.5	1.825	2.787	7.8	21.3
5 21	13 40.08	-1 55.0	1.552	2.438	14.5	20.6	5 21	13 40.15	-10 12.9	1.891	2.793	11.4	21.5
5 31	13 36.50	-1 7.7	1.605	2.408	18.1	20.8	5 31	13 36.48	-9 46.7	1.978	2.799	14.5	21.7
<b>491719</b>	2012 <i>UV</i> <sub>153</sub>		4 22.3 123°18	0°6/21.7	17		<b>506320</b>	2017 <i>OX</i> <sub>8</sub>		4 22.3 267°19	1°5/23.4	17	
3 22	14 21.15	-12 14.9	2.499	3.360	9.9	22.0	3 22	14 26.05	-18 14.3	1.708	2.563	14.1	22.0
4 1	14 15.71	-11 40.7	2.436	3.372	7.0	21.8	4 1	14 20.18	-17 53.1	1.609	2.538	10.5	21.7
4 11	14 8.96	-11 0.1	2.399	3.383	3.7	21.6	4 11	14 11.87	-17 15.8	1.532	2.512	6.2	21.4
4 21	14 1.51	-10 16.4	2.390	3.394	0.6	21.4	4 21	14 1.92	-16 24.3	1.482	2.485	1.9	21.1
5 1	13 54.06	-9 33.3	2.411	3.405	3.3	21.6	5 1	13 51.44	-15 23.2	1.459	2.458	4.1	21.1
5 11	13 47.30	-8 54.9	2.460	3.416	6.5	21.8	5 11	13 41.72	-14 19.6	1.464	2.430	9.0	21.4
5 21	13 41.78	-8 24.3	2.536	3.426	9.4	22.0	5 21	13 33.83	-13 21.0	1.492	2.401	13.5	21.6
5 31	13 37.88	-8 3.8	2.635	3.436	11.9	22.2	5 31	13 28.57	-12 34.1	1.541	2.372	17.5	21.7
<b>292089</b>	2006 <i>RO</i> <sub>35</sub>		4 22.3 123°85	0°4/21.7	18		<b>262612</b>	2006 <i>VH</i> <sub>148</sub>		4 22.3 12°36	6°6/17.7	18	
3 22	14 19.82	-14 19.8	2.475	3.334	10.1	20.6	3 22	14 24.50	+ 2 28.5	1.530	2.416	13.6	19.9
4 1	14 14.78	-13 17.1	2.409	3.344	7.1	20.5	4 1	14 18.74	+ 3 18.7	1.475	2.417	10.2	19.7
4 11	14 8.46	-12 5.7	2.369	3.354	3.8	20.3	4 11	14 10.85	+ 4 3.0	1.444	2.418	7.3	19.5
4 21	14 1.45	-10 49.5	2.359	3.364	0.5	20.0	4 21	14 1.77	+ 4 34.3	1.438	2.419	6.8	19.5
5 1	13 54.46	-9 33.8	2.379	3.373	3.3	20.2	5 1	13 52.65	+ 4 46.9	1.458	2.420	9.1	19.6
5 11	13 48.16	-8 23.7	2.427	3.382	6.6	20.5	5 11	13 44.63	+ 4 37.6	1.501	2.422	12.5	19.8
5 21	13 43.09	-7 23.5	2.502	3.391	9.5	20.7	5 21	13 38.56	+ 4 6.5	1.566	2.424	15.8	20.1
5 31	13 39.62	-6 36.0	2.600	3.400	12.0	20.9	5 31	13 34.96	+ 3 15.8	1.648	2.427	18.7	20.3
<b>284795</b>	2008 <i>YS</i> <sub>83</sub>		4 22.3 278°80	1°1/21.4	17		<b>41032</b>	1999 <i>UC</i> <sub>48</sub>		4 22.3 125°50	2°1/24.4	18	
3 22	14 22.07	-10 44.9	2.017	2.888	11.5	21.3	3 22	14 20.95	-20 44.8	2.457	3.294	10.9	19.4
4 1	14 16.72	-10 17.6	1.943	2.884	8.1	21.1	4 1	14 15.75	-20 34.1	2.379	3.296	8.1	19.2
4 11	14 9.67	-9 43.8	1.894	2.880	4.4	20.9	4 11	14 9.08	-20 11.5	2.327	3.298	5.1	19.1
4 21	14 1.60	-9 9.9	1.872	2.876	1.1	20.6	4 21	14 1.58	-19 38.7	2.302	3.300	2.4	18.9
5 1	13 53.41	-8 31.5	1.878	2.872	4.1	20.8	5 1	13 53.99	-18 58.5	2.306	3.302	3.1	18.9
5 11	13 45.98	-8 2.0	1.911	2.868	8.0	21.1	5 11	13 47.07	-18 15.4	2.338	3.304	6.1	19.1
5 21	13 40.04	-7 42.2	1.970	2.864	11.5	21.3	5 21	13 41.43	-17 33.7	2.397	3.306	9.0	19.3
5 31	13 36.10	-7 34.5	2.049	2.860	14.5	21.5	5 31	13 37.52	-16 57.3	2.479	3.308	11.7	19.5
<b>472575</b>	2015 <i>DD</i> <sub>101</sub>		4 22.3 271°98	2°0/23.7	17		<b>508735</b>	2017 <i>UE</i> <sub>29</sub>		4 22.3 193°49	1°4/21.0	17	
3 22	14 25.72	-18 8.4	1.797	2.650	13.6	20.8	3 22	14 23.40	- 9 29.9	2.198	3.065	10.9	21.9
4 1	14 19.75	-18 15.3	1.707	2.634	10.1	20.5	4 1	14 17.54	- 8 59.1	2.124	3.063	7.7	21.7
4 11	14 11.53	-18 9.6	1.641	2.618	6.1	20.2	4 11	14 10.09	- 8 23.0	2.076	3.061	4.1	21.5
4 21	14 1.84	-17 52.2	1.601	2.602	2.4	20.0	4 21	14 1.71	- 7 45.2	2.056	3.059	1.4	21.3
5 1	13 51.74	-17 26.0	1.588	2.586	4.0	20.0	5 1	13 53.22	- 7 9.9	2.066	3.057	4.1	21.5
5 11	13 42.44	-16 56.1	1.603	2.570	8.3	20.2	5 11	13 45.47	- 6 41.3	2.103	3.054	7.7	21.7
5 21	13 34.92	-16 27.9	1.642	2.553	12.3	20.4	5 21	13 39.13	- 6 22.5	2.165	3.050	11.0	21.9
5 31	13 29.87	-16 6.6	1.702	2.536	15.9	20.6	5 31	13 34.67	- 6 15.6	2.250	3.046	13.8	22.1
<b>498913</b>	2009 <i>AH</i> <sub>36</sub>		4 22.3 20°14	4°3/24.9	17		<b>105263</b>	2000 <i>QG</i> <sub>17</sub>		4 22.3 182°57	1°3/20.9	18	
3 22	14 23.00	-21 54.7	1.092	1.965	18.9	20.6	3 22	14 20.28	-10 5.1	2.563	3.429	9.5	19.9
4 1	14 18.49	-22 7.4	1.038	1.971	14.3	20.4	4 1	14 15.15	- 9 22.5	2.490	3.429	6.7	19.8
4 11	14 11.02	-21 56.7	1.002	1.978	9.3	20.1	4 11	14 8.71	- 8 34.7	2.444	3.430	3.6	19.6
4 21	14 1.78	-21 23.7	0.988	1.986	4.9	19.9	4 21	14 1.55	- 7 45.1	2.426	3.429	1.3	19.4
5 1	13 52.41	-20 34.0	0.997	1.995	5.6	19.9	5 1	13 54.32	- 6 57.8	2.438	3.429	3.7	19.6
5 11	13 44.56	-19 37.1	1.029	2.006	10.3	20.2	5 11	13 47.71	- 6 16.8	2.479	3.428	6.8	19.8
5 21	13 39.40	-18 43.1	1.082	2.017	15.1	20.5	5 21	13 42.27	- 5 45.1	2.545	3.427	9.7	19.9
5 31	13 37.53	-18 0.2	1.152	2.029	19.2	20.8	5 31	13 38.38	- 5 24.8	2.634	3.425	12.1	20.1
<b>452820</b>	2006 <i>QA</i> <sub>125</sub>		4 22.3 257°16	0°4/22.9	15		<b>228262</b>	1999 <i>TX</i> <sub>67</sub>		4 22.3 303°12	1°6/21.0	17	
3 22	14 17.75	-15 40.5	3.718	4.563	7.4	22.7	3 22	14 23.00	- 9 20.3	1.825	2.701	12.3	20.3
4 1	14 13.13	-15 21.6	3.618	4.544	5.3	22.5	4 1	14 17.55	- 8 53.9	1.753	2.696	8.7	20.1
4 11	14 7.54	-14 56.6	3.544	4.524	3.0	22.3	4 11	14 10.20	- 8 21.6	1.705	2.692	4.7	19.8
4 21	14 1.38	-14 27.0	3.500	4.504	0.7	22.1	4 21	14 1.73	- 7 47.5	1.684	2.687	1.6	19.6
5 1	13 55.09	-13 55.1	3.487	4.484	2.1	22.2	5 1	13 53.10	- 7 16.5	1.690	2.683	4.7	19.8
5 11	13 49.16	-13 23.2	3.503	4.463	4.5	22.4	5 11	13 45.32	- 6 53.2	1.723	2.678	8.8	20.0
5 21	13 43.98	-12 54.0	3.547	4.442	6.8	22.5	5 21	13 39.19	- 6 41.1	1.780	2.674	12.5	20.2
5 31	13 39.91	-12 29.7	3.616	4.421	8.8	22.6	5 31	13 35.24	- 6 42.5	1.858	2.670	15.7	20.4
<b>1966</b>	Tristan		4 22.3 21°59	2°0/20.9	18		<b>65657</b>	Hube		4 22.3 261°69	2°8/19.4	18	
3 22	14 22.96	- 9 59.0	1.349	2.237	15.0	17.4	3 22	14 21.98	- 7 22.6	2.120	2.993	10.9	19.2
4 1	14 17.90	- 9 18.3	1.291	2.240	10.6	17.2	4 1	14 16.72	- 6 10.3	2.028	2.971	7.7	19.0
4 11	14 10.49	- 8 29.1	1.255	2.243	5.7	16.9	4 11	14 9.75	- 4 51.1	1.963	2.947	4.4	18.7
4 21	14 1.72	- 7 37.4	1.244	2.248	2.0	16.7	4 21	14 1.68	- 3 30.3	1.926	2.923	2.9	18.6
5 1	13 52.88	- 6 50.5	1.259	2.252	5.7	16.9	5 1	13 53.37	- 2 14.7	1.918	2.899	5.6	18.7
5 11	13 45.24	- 6 15.2	1.297	2.257	10.6	17.2	5 11	13 45.68	- 1 10.5	1.937	2.874	9.2	18.8
5 21	13 39.73	- 5 56.1	1.358	2.262	14.9	17.5	5 21	13 39.36	- 0 22.0	1.981	2.848	12.6	19.0
5 31	13 36.92	- 5 55.1	1.437	2.268	18.5	17.7	5 31	13 34.96	+ 0 8.1	2.046	2.822	15.6	19.2
<b>432888</b>	2011 <i>LU</i> <sub>11</sub>		4 22.3 313°42	0°8/22.9	17		<b>101501</b>	1998 <i>XR</i> <sub>8</sub>		4 22.3 324°65	4°9/19.4	16	
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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>519540</b>	2012 MQ <sub>16</sub>		4 22.3 243°15	2°9/24.7	17		<b>125638</b>	2001 XQ <sub>61</sub>		4 22.3 116°34	1°4/21.1	18	
3 22	14 25.14	-21 44.5	2.232	3.063	12.1	22.0	3 22	14 23.45	-10 40.5	1.843	2.715	12.4	20.0
4 1	14 19.01	-21 53.9	2.139	3.051	9.2	21.8	4 1	14 17.73	-9 57.5	1.782	2.724	8.7	19.8
4 11	14 11.02	-21 50.3	2.071	3.038	6.0	21.6	4 11	14 10.23	-9 7.2	1.746	2.732	4.6	19.6
4 21	14 1.84	-21 34.1	2.030	3.025	3.3	21.4	4 21	14 1.74	-8 14.3	1.737	2.740	1.4	19.4
5 1	13 52.36	-21 7.2	2.018	3.012	3.8	21.4	5 1	13 53.24	-7 24.5	1.756	2.748	4.6	19.6
5 11	13 43.56	-20 34.0	2.033	2.998	7.0	21.5	5 11	13 45.68	-6 43.1	1.802	2.756	8.5	19.9
5 21	13 36.23	-19 59.1	2.075	2.984	10.3	21.7	5 21	13 39.79	-6 14.0	1.872	2.763	12.1	20.1
5 31	13 30.96	-19 27.8	2.140	2.969	13.3	21.9	5 31	13 36.04	-5 59.6	1.963	2.771	15.1	20.3
<b>106150</b>	2000 TF <sub>54</sub>		4 22.3 214°17	0°2/22.0	18		<b>331605</b>	2001 XB <sub>5</sub>		4 22.3 100°13	6°6/16.7	18	
3 22	14 20.62	-13 11.2	2.773	3.629	9.2	21.3	3 22	14 25.61	+ 5 38.4	1.956	2.828	11.8	20.7
4 1	14 15.37	-12 42.0	2.689	3.622	6.6	21.1	4 1	14 18.97	+ 6 39.4	1.922	2.850	9.0	20.6
4 11	14 8.84	-12 6.1	2.632	3.615	3.5	20.9	4 11	14 10.76	+ 7 32.0	1.912	2.872	7.0	20.5
4 21	14 1.58	-11 26.0	2.603	3.608	0.4	20.7	4 21	14 1.80	+ 8 10.3	1.929	2.894	6.8	20.5
5 1	13 54.20	-10 45.0	2.605	3.600	2.9	20.9	5 1	13 53.01	+ 8 30.0	1.974	2.915	8.6	20.7
5 11	13 47.37	-10 6.9	2.636	3.592	6.0	21.1	5 11	13 45.25	+ 8 29.3	2.043	2.936	11.1	20.9
5 21	13 41.63	-9 34.9	2.693	3.584	8.9	21.2	5 21	13 39.13	+ 8 8.8	2.136	2.956	13.6	21.1
5 31	13 37.37	-9 11.4	2.774	3.575	11.3	21.4	5 31	13 35.05	+ 7 30.8	2.247	2.975	15.7	21.3
<b>226826</b>	2004 RC <sub>307</sub>		4 22.3 182°37	2°6/19.8	18		<b>36845</b>	2000 SX <sub>119</sub>		4 22.3 7°48	4°0/19.7	18	
3 22	14 24.20	- 4 46.8	2.427	3.294	9.9	20.8	3 22	14 22.31	- 6 30.5	1.184	2.083	15.8	17.2
4 1	14 17.95	- 4 14.5	2.356	3.295	7.1	20.6	4 1	14 17.68	- 5 32.4	1.129	2.083	11.2	17.0
4 11	14 10.25	- 3 41.0	2.313	3.295	4.1	20.4	4 11	14 10.48	- 4 28.7	1.096	2.084	6.4	16.7
4 21	14 1.74	- 3 9.8	2.298	3.295	2.7	20.3	4 21	14 1.79	- 3 27.8	1.086	2.086	4.1	16.5
5 1	13 53.16	- 2 44.7	2.313	3.294	4.8	20.4	5 1	13 53.00	- 2 38.6	1.101	2.088	7.6	16.8
5 11	13 45.27	- 2 28.9	2.356	3.292	7.8	20.6	5 11	13 45.51	- 2 8.4	1.138	2.091	12.4	17.0
5 21	13 38.67	- 2 24.3	2.425	3.290	10.7	20.8	5 21	13 40.34	- 2 0.5	1.195	2.094	16.9	17.3
5 31	13 33.82	- 2 31.8	2.516	3.288	13.1	21.0	5 31	13 38.06	- 2 15.4	1.269	2.099	20.6	17.5
<b>192654</b>	1999 RZ <sub>106</sub>		4 22.3 218°64	1°3/23.5	17		<b>219858</b>	2002 CD <sub>232</sub>		4 22.3 141°59	0°3/22.6	18	
3 22	14 23.52	-18 1.9	2.288	3.133	11.3	21.0	3 22	14 25.55	-14 40.1	2.342	3.192	10.9	21.3
4 1	14 17.70	-17 43.6	2.201	3.125	8.3	20.8	4 1	14 18.92	-14 22.1	2.276	3.206	7.8	21.1
4 11	14 10.23	-17 14.0	2.140	3.117	4.9	20.5	4 11	14 10.78	-13 55.8	2.237	3.218	4.3	20.9
4 21	14 1.75	-16 35.0	2.106	3.109	1.6	20.3	4 21	14 1.81	-13 23.7	2.226	3.231	0.7	20.6
5 1	13 53.09	-15 50.0	2.102	3.100	3.2	20.4	5 1	13 52.84	-12 49.4	2.245	3.242	3.1	20.8
5 11	13 45.11	-15 4.0	2.126	3.090	6.7	20.6	5 11	13 44.67	-12 16.9	2.293	3.253	6.6	21.1
5 21	13 38.53	-14 21.6	2.177	3.080	10.1	20.8	5 21	13 37.92	-11 49.8	2.368	3.263	9.8	21.3
5 31	13 33.85	-13 46.9	2.250	3.070	13.0	21.0	5 31	13 33.04	-11 31.1	2.466	3.272	12.4	21.5
<b>57234</b>	2001 QV <sub>79</sub>		4 22.3 194°15	0°2/22.1	18		<b>124819</b>	2001 SY <sub>294</sub>		4 22.3 108°42	0°6/21.9	18	
3 22	14 23.82	-13 51.8	2.061	2.921	11.7	19.7	3 22	14 25.05	-14 13.1	1.391	2.268	15.3	20.2
4 1	14 17.97	-13 18.2	1.984	2.920	8.4	19.5	4 1	14 19.35	-13 21.2	1.332	2.275	10.9	20.0
4 11	14 10.37	-12 35.1	1.933	2.918	4.6	19.3	4 11	14 11.28	-12 15.4	1.296	2.283	5.9	19.7
4 21	14 1.76	-11 45.9	1.910	2.915	0.5	18.9	4 21	14 1.88	-11 1.5	1.285	2.290	0.8	19.4
5 1	13 53.03	-10 55.3	1.916	2.912	3.7	19.2	5 1	13 52.46	- 9 47.6	1.300	2.297	4.9	19.7
5 11	13 45.10	-10 8.6	1.949	2.908	7.6	19.4	5 11	13 44.30	- 8 42.6	1.341	2.304	10.0	20.0
5 21	13 38.69	- 9 30.4	2.008	2.904	11.2	19.6	5 21	13 38.32	- 7 52.9	1.404	2.310	14.4	20.3
5 31	13 34.31	- 9 4.0	2.089	2.900	14.2	19.8	5 31	13 35.07	- 7 22.1	1.487	2.317	18.0	20.5
<b>20455</b>	Pennell		4 22.3 301°82	5°4/18.4	17		<b>376745</b>	1999 TE <sub>270</sub>		4 22.3 167°63	0°8/23.2	18	
3 22	14 22.58	- 3 25.0	1.345	2.240	14.5	17.9	3 22	14 22.06	-18 14.7	2.424	3.268	10.8	21.2
4 1	14 17.81	- 2 11.8	1.275	2.225	10.5	17.6	4 1	14 16.48	-17 26.1	2.348	3.273	7.8	21.0
4 11	14 10.58	- 0 54.9	1.227	2.211	6.7	17.4	4 11	14 9.47	-16 25.6	2.298	3.277	4.5	20.8
4 21	14 1.80	+ 0 16.8	1.204	2.197	5.6	17.3	4 21	14 1.67	-15 16.4	2.276	3.280	1.1	20.5
5 1	13 52.73	+ 1 14.0	1.206	2.183	8.7	17.4	5 1	13 53.83	-14 3.3	2.285	3.283	3.0	20.7
5 11	13 44.69	+ 1 49.2	1.231	2.170	13.1	17.6	5 11	13 46.72	-12 51.6	2.323	3.285	6.4	20.9
5 21	13 38.74	+ 1 59.0	1.276	2.156	17.3	17.8	5 21	13 40.92	-11 46.6	2.388	3.287	9.5	21.1
5 31	13 33.56	+ 1 43.3	1.339	2.143	21.0	18.0	5 31	13 36.86	-10 52.1	2.476	3.288	12.2	21.3
<b>378654</b>	2008 GZ <sub>52</sub>		4 22.3 308°83	0°3/21.8	18		<b>111183</b>	2001 WM <sub>5</sub>		4 22.3 202°39	7°9/14.9	17	
3 22	14 16.78	-11 9.0	3.954	4.811	6.7	20.5	3 22	14 24.72	+ 9 34.6	2.020	2.886	11.7	20.1
4 1	14 12.38	-11 3.2	3.868	4.802	4.7	20.4	4 1	14 18.54	+10 43.9	1.964	2.882	9.5	20.0
4 11	14 7.13	-10 54.4	3.809	4.793	2.5	20.2	4 11	14 10.65	+11 43.0	1.934	2.879	8.1	19.9
4 21	14 1.38	-10 43.8	3.780	4.785	0.4	20.0	4 21	14 1.81	+12 25.6	1.929	2.875	8.3	19.9
5 1	13 55.56	-10 33.3	3.781	4.776	2.2	20.1	5 1	13 52.91	+12 46.3	1.951	2.870	10.0	20.0
5 11	13 50.08	-10 24.6	3.812	4.768	4.4	20.3	5 11	13 44.88	+12 43.1	1.997	2.865	12.4	20.1
5 21	13 45.30	-10 19.3	3.871	4.759	6.5	20.4	5 21	13 38.40	+12 16.7	2.064	2.860	14.8	20.3
5 31	13 41.51	-10 18.9	3.953	4.751	8.3	20.5	5 31	13 33.97	+11 29.5	2.150	2.854	16.9	20.4
<b>284884</b>	2009 HT <sub>15</sub>		4 22.3 136°39	4°0/17.8	17		<b>105649</b>	2000 SQ <sub>23</sub>		4 22.3 139°33	0°2/22.5	18	
3 22	14 20.25	- 0 53.2	2.508	3.383	9.4	20.9	3 22	14 26.36	-12 43.6	2.858	3.704	9.3	19.6
4 1	14 15.07	+ 0 9.4	2.453	3.392	6.8	20.7	4 1	14 19.31	-12 54.8	2.787	3.715	6.6	19.5
4 11	14 8.64	+ 1 10.8	2.424	3.400	4.6	20.6	4 11	14 10.95	-13 1.0	2.744	3.725	3.6	19.3
4 21	14 1.55	+ 2 6.2	2.424	3.408	4.1	20.6	4 21	14 1.85	-13 3.4	2.731	3.735	0.5	19.0
5 1	13 54.47	+ 2 51.3	2.453	3.416	5.9	20.7	5 1	13 52.69	-13 3.8	2.749	3.745	2.7	19.2
5 11	13 48.05	+ 3 22.7	2.509	3.423	8.4	20.9	5 11	13 44.17	-13 4.5	2.797	3.754	5.7	19.5
5 21	13 42.81	+ 3 38.9	2.589	3.430	10.8	21.0	5 21	13 36.85	-13 7.6	2.874	3.763	8.4	19.7
5 31	13 39.13	+ 3 39.8	2.691	3.437	13.0	21.2	5 31	13 31.12	-13 15.1	2.975	3.772	10.7	19.8
<b>22234</b>	3166 T-3		4 22.3 69°13	1°0/21.6	18		<b>178713</b>	2000 SG <sub>230</sub>		4 22.3 245°68	0°3/21.9	18	
3 22	14 24.87	-12 40.4	1.391	2.270	1								

EPHEMERIDES

4 22.3

4 22.3

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>286170</b>	2001 <i>UM</i> <sub>26</sub>		4 22.3 119°22	2°1/24.5	18		<b>54496</b>	2000 <i>OT</i> <sub>40</sub>		4 22.3 188°01	1°2/23.5	18	
3 22	14 24.25	-22 28.2	2.099	2.932	12.7	21.1	3 22	14 20.48	-18 37.9	2.326	3.174	11.1	18.9
4 1	14 18.14	-21 42.1	2.035	2.950	9.4	20.9	4 1	14 15.49	-18 3.6	2.249	3.174	8.1	18.7
4 11	14 10.38	-20 39.7	1.997	2.967	5.8	20.7	4 11	14 9.00	-17 17.4	2.196	3.174	4.7	18.5
4 21	14 1.78	-19 24.3	1.986	2.984	2.6	20.5	4 21	14 1.67	-16 21.8	2.171	3.173	1.5	18.3
5 1	13 53.26	-18 1.2	2.004	3.001	3.4	20.6	5 1	13 54.26	-15 21.2	2.175	3.173	3.0	18.4
5 11	13 45.70	-16 37.4	2.051	3.017	6.8	20.9	5 11	13 47.54	-14 20.8	2.207	3.172	6.4	18.6
5 21	13 39.75	-15 19.3	2.124	3.032	10.1	21.1	5 21	13 42.14	-13 25.4	2.265	3.172	9.7	18.8
5 31	13 35.83	-14 12.2	2.221	3.047	13.0	21.3	5 31	13 38.51	-12 39.3	2.347	3.171	12.4	19.0
<b>242182</b>	2003 <i>HQ</i> <sub>52</sub>		4 22.3 284°90	0°7/21.7	17		<b>192304</b>	1993 <i>FK</i> <sub>40</sub>		4 22.3 347°17	4°8/17.9	18	
3 22	14 22.61	-14 33.9	1.397	2.276	15.1	20.4	3 22	14 17.63	- 5 45.2	1.412	2.310	13.7	18.8
4 1	14 17.90	-13 32.8	1.315	2.260	10.9	20.0	4 1	14 14.11	- 4 2.0	1.349	2.303	9.7	18.5
4 11	14 10.69	-12 14.3	1.256	2.243	5.9	19.7	4 11	14 8.49	- 2 11.8	1.310	2.296	6.0	18.3
4 21	14 1.86	-10 44.1	1.221	2.226	0.8	19.3	4 21	14 1.63	- 0 24.7	1.297	2.290	5.0	18.2
5 1	13 52.67	- 9 11.0	1.213	2.209	5.3	19.6	5 1	13 54.64	+ 1 8.7	1.309	2.285	8.2	18.4
5 11	13 44.48	- 7 45.7	1.229	2.192	10.6	19.8	5 11	13 48.65	+ 2 19.7	1.344	2.281	12.3	18.6
5 21	13 38.37	- 6 36.5	1.268	2.176	15.5	20.1	5 21	13 44.50	+ 3 3.9	1.400	2.278	16.2	18.8
5 31	13 35.05	- 5 49.2	1.325	2.159	19.6	20.3	5 31	13 42.74	+ 3 20.3	1.474	2.276	19.5	19.0
<b>230075</b>	2000 <i>UQ</i> <sub>103</sub>		4 22.3 144°70	0°9/21.5	17		<b>460481</b>	2014 <i>SZ</i> <sub>288</sub>		4 22.3 292°93	2°9/20.6	16	
3 22	14 26.41	- 9 55.2	2.383	3.241	10.5	21.4	3 22	14 26.27	- 7 24.9	1.319	2.206	15.3	21.1
4 1	14 19.51	- 9 43.6	2.317	3.252	7.4	21.2	4 1	14 20.79	- 6 56.7	1.234	2.183	11.0	20.7
4 11	14 11.11	- 9 27.6	2.279	3.263	4.0	21.0	4 11	14 12.45	- 6 22.1	1.172	2.159	6.2	20.4
4 21	14 1.89	- 9 9.7	2.270	3.274	0.9	20.8	4 21	14 2.14	- 5 46.7	1.133	2.135	2.9	20.1
5 1	13 52.65	- 8 52.9	2.291	3.284	3.6	21.0	5 1	13 51.21	- 5 17.4	1.120	2.111	6.8	20.3
5 11	13 44.19	- 8 40.6	2.341	3.293	7.0	21.3	5 11	13 41.23	- 5 0.9	1.130	2.087	12.1	20.5
5 21	13 37.13	- 8 35.1	2.417	3.301	10.0	21.5	5 21	13 33.46	- 5 1.8	1.162	2.063	17.1	20.7
5 31	13 31.91	- 8 38.2	2.516	3.309	12.6	21.6	5 31	13 28.79	- 5 22.4	1.211	2.040	21.4	20.9
<b>503901</b>	2001 <i>XN</i> <sub>181</sub>		4 22.3 154°55	5°9/14.8	17		<b>127540</b>	2002 <i>XQ</i> <sub>63</sub>		4 22.3 243°17	13°4/2.8	18	
3 22	14 21.09	+10 0.7	2.967	3.823	8.7	22.1	3 22	14 29.53	-43 7.8	1.297	2.055	22.9	19.4
4 1	14 15.51	+10 56.8	2.920	3.831	7.0	22.0	4 1	14 23.92	-43 48.0	1.216	2.047	20.3	19.2
4 11	14 8.85	+11 45.1	2.900	3.839	6.0	21.9	4 11	14 14.45	-43 47.2	1.150	2.039	17.4	19.0
4 21	14 1.62	+12 21.4	2.908	3.846	6.2	21.9	4 21	14 2.38	-42 57.1	1.102	2.030	14.8	18.8
5 1	13 54.42	+12 42.7	2.943	3.853	7.4	22.0	5 1	13 49.75	-41 15.7	1.074	2.021	13.5	18.7
5 11	13 47.80	+12 47.5	3.005	3.859	9.1	22.1	5 11	13 38.81	-38 51.3	1.068	2.011	14.2	18.7
5 21	13 42.24	+12 36.0	3.089	3.864	10.8	22.3	5 21	13 31.20	-36 0.6	1.084	2.001	16.7	18.8
5 31	13 38.07	+12 9.2	3.194	3.870	12.3	22.4	5 31	13 27.78	-33 3.2	1.119	1.991	19.9	18.9
<b>174782</b>	2003 <i>WD</i> <sub>95</sub>		4 22.3 90°39	0°5/21.9	18		<b>434796</b>	2006 <i>RL</i> <sub>27</sub>		4 22.3 198°39	2°7/25.1	18	
3 22	14 26.41	-12 45.9	1.561	2.433	14.2	21.0	3 22	14 23.49	-22 45.6	2.765	3.585	10.3	21.8
4 1	14 20.04	-12 18.2	1.509	2.449	10.1	20.8	4 1	14 17.51	-22 50.2	2.678	3.582	7.9	21.7
4 11	14 11.55	-11 40.8	1.480	2.466	5.4	20.6	4 11	14 10.10	-22 43.4	2.616	3.579	5.2	21.5
4 21	14 1.94	-10 58.1	1.477	2.482	0.7	20.2	4 21	14 1.83	-22 25.7	2.582	3.575	3.0	21.3
5 1	13 52.39	-10 15.8	1.502	2.498	4.5	20.6	5 1	13 53.40	-21 59.0	2.578	3.570	3.3	21.3
5 11	13 44.06	- 9 39.9	1.552	2.513	9.0	20.9	5 11	13 45.56	-21 26.8	2.603	3.565	5.7	21.5
5 21	13 37.76	- 9 15.0	1.626	2.529	13.0	21.1	5 21	13 38.91	-20 53.0	2.655	3.560	8.4	21.7
5 31	13 33.97	- 9 3.8	1.721	2.544	16.3	21.4	5 31	13 33.92	-20 21.5	2.731	3.555	10.9	21.8
<b>377418</b>	2004 <i>TZ</i> <sub>122</sub>		4 22.3 177°50	1°0/21.4	17		<b>57992</b>	2002 <i>RX</i> <sub>47</sub>		4 22.3 254°02	2°2/20.6	18	
3 22	14 23.77	-10 54.6	2.283	3.146	10.7	22.0	3 22	14 24.53	- 8 49.7	1.779	2.654	12.6	19.8
4 1	14 17.77	-10 24.5	2.211	3.148	7.5	21.8	4 1	14 18.83	- 8 4.1	1.695	2.638	9.0	19.6
4 11	14 10.22	- 9 48.2	2.164	3.149	4.0	21.5	4 11	14 11.05	- 7 11.1	1.636	2.622	4.9	19.3
4 21	14 1.79	- 9 9.1	2.146	3.150	1.0	21.3	4 21	14 1.95	- 6 15.9	1.604	2.606	2.2	19.1
5 1	13 53.29	- 8 31.2	2.157	3.150	3.8	21.5	5 1	13 52.58	- 5 24.5	1.600	2.589	5.4	19.2
5 11	13 45.52	- 7 58.7	2.197	3.150	7.3	21.7	5 11	13 44.00	- 4 43.1	1.622	2.571	9.6	19.4
5 21	13 39.12	- 7 35.0	2.262	3.149	10.5	21.9	5 21	13 37.12	- 4 16.1	1.668	2.554	13.6	19.6
5 31	13 34.55	- 7 22.2	2.350	3.148	13.2	22.1	5 31	13 32.55	- 4 6.0	1.733	2.536	17.0	19.8
<b>13285</b>	Stephicks		4 22.3 215°75	1°6/20.9	17		<b>122206</b>	2000 <i>LH</i> <sub>31</sub>		4 22.3 265°75	8°3/14.5	18	
3 22	14 23.33	-11 2.9	1.849	2.720	12.4	18.5	3 22	14 23.45	+ 8 28.6	1.873	2.746	12.2	19.1
4 1	14 17.79	-10 4.2	1.773	2.715	8.7	18.3	4 1	14 17.91	+ 9 50.4	1.805	2.729	9.8	18.9
4 11	14 10.36	- 8 56.1	1.723	2.709	4.7	18.1	4 11	14 10.47	+11 3.9	1.762	2.712	8.4	18.8
4 21	14 1.83	- 7 44.0	1.700	2.703	1.6	17.8	4 21	14 1.88	+12 1.3	1.745	2.695	8.7	18.8
5 1	13 53.14	- 6 34.5	1.705	2.697	4.8	18.0	5 1	13 53.10	+12 35.9	1.753	2.677	10.7	18.8
5 11	13 45.32	- 5 34.3	1.738	2.690	9.0	18.3	5 11	13 45.12	+12 44.4	1.785	2.659	13.3	19.0
5 21	13 39.13	- 4 48.2	1.795	2.682	12.7	18.5	5 21	13 38.73	+12 26.5	1.838	2.641	16.1	19.1
5 31	13 35.12	- 4 19.1	1.872	2.674	15.9	18.7	5 31	13 34.49	+11 44.5	1.907	2.623	18.5	19.2
<b>267416</b>	2002 <i>BV</i> <sub>1</sub>		4 22.3 50°89	6°4/17.1	18		<b>329583</b>	2002 <i>XC</i> <sub>72</sub>		4 22.3 68°36	0°9/22.9	18	
3 22	14 22.41	- 0 24.8	1.409	2.302	14.1	20.1	3 22	14 27.80	-15 22.8	1.519	2.384	14.9	20.0
4 1	14 17.09	+ 1 15.7	1.383	2.330	10.2	19.9	4 1	14 21.04	-15 17.5	1.473	2.409	10.7	19.8
4 11	14 9.86	+ 2 51.4	1.382	2.358	7.1	19.8	4 11	14 12.11	-15 0.3	1.451	2.433	6.0	19.6
4 21	14 1.74	+ 4 12.7	1.405	2.387	6.7	19.8	4 21	14 2.06	-14 34.3	1.454	2.458	1.3	19.3
5 1	13 53.89	+ 5 12.0	1.454	2.416	9.2	20.0	5 1	13 52.16	-14 4.3	1.484	2.482	4.1	19.6
5 11	13 47.33	+ 5 45.3	1.526	2.444	12.5	20.3	5 11	13 43.60	-13 36.0	1.541	2.507	8.6	19.9
5 21	13 42.75	+ 5 52.5	1.619	2.474	15.6	20.6	5 21	13 37.18	-13 14.5	1.621	2.531	12.5	20.2
5 31	13 40.49	+ 5 36.2	1.730	2.503	18.2	20.8	5 31	13 33.37	-13 3.3	1.722	2.555	15.8	20.5
<b>46402</b>	2002 <i>DB</i> <sub>16</sub>		4 22.3 322°37	3°8/19.8	18		<b>354841</b>	2005 <i>YR</i> <sub>52</sub>		4 2			

EPHEMERIDES

4 22.3

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>240811</b>	2005 YG <sub>269</sub>		4 22.3 76°80	5°8/18.2	18		<b>221148</b>	2005 TH <sub>41</sub>		4 22.3 145°99	0°1/22.3	18	
3 22	14 24.68	- 2 8.9	1.330	2.223	14.8	19.9	3 22	14 24.54	-13 53.7	2.343	3.197	10.8	21.2
4 1	14 19.10	- 0 53.0	1.281	2.229	10.7	19.7	4 1	14 18.26	-13 26.8	2.277	3.208	7.7	21.0
4 11	14 11.18	+ 0 22.7	1.255	2.236	7.0	19.5	4 11	14 10.49	-12 52.0	2.236	3.219	4.2	20.8
4 21	14 1.97	+ 1 29.1	1.253	2.242	6.0	19.4	4 21	14 1.91	-12 12.1	2.224	3.229	0.5	20.5
5 1	13 52.77	+ 2 17.7	1.276	2.249	8.8	19.6	5 1	13 53.31	-11 31.1	2.243	3.239	3.2	20.7
5 11	13 44.86	+ 2 42.9	1.323	2.256	12.8	19.8	5 11	13 45.49	-10 53.1	2.289	3.247	6.7	21.0
5 21	13 39.11	+ 2 43.4	1.390	2.262	16.6	20.1	5 21	13 39.06	-10 22.0	2.363	3.256	9.9	21.2
5 31	13 36.06	+ 2 20.4	1.474	2.269	19.8	20.3	5 31	13 34.45	-10 0.3	2.459	3.263	12.5	21.4
<b>37359</b>	2001 UM <sub>17</sub>		4 22.3 239°65	0°2/22.1	17		<b>35269</b>	Idefix		4 22.3 357°94	3°2/20.7	18	
3 22	14 26.76	-14 36.4	1.938	2.795	12.6	20.7	3 22	14 24.55	- 6 28.4	1.115	2.013	16.5	17.4
4 1	14 20.38	-13 51.3	1.842	2.775	9.1	20.5	4 1	14 19.54	- 6 12.2	1.057	2.010	11.8	17.2
4 11	14 11.91	-12 53.6	1.771	2.754	5.0	20.2	4 11	14 11.68	- 5 52.5	1.019	2.008	6.6	16.9
4 21	14 2.08	-11 46.6	1.728	2.732	0.6	19.8	4 21	14 2.08	- 5 35.2	1.005	2.007	3.2	16.6
5 1	13 51.90	-10 36.1	1.714	2.710	4.1	20.0	5 1	13 52.26	- 5 26.6	1.014	2.006	7.0	16.9
5 11	13 42.46	- 9 29.0	1.728	2.686	8.6	20.2	5 11	13 43.81	- 5 32.0	1.045	2.007	12.2	17.1
5 21	13 34.66	- 8 31.5	1.768	2.660	12.6	20.4	5 21	13 37.87	- 5 54.0	1.097	2.009	17.0	17.4
5 31	13 29.15	- 7 48.3	1.829	2.634	16.1	20.6	5 31	13 35.12	- 6 33.1	1.166	2.012	21.0	17.7
<b>203269</b>	2001 QP <sub>280</sub>		4 22.3 217°87	3°3/19.7	17		<b>207637</b>	2006 TE <sub>24</sub>		4 22.3 283°60	1°2/23.4	18	R
3 22	14 27.24	- 5 33.0	1.866	2.738	12.3	21.4	3 22	14 22.03	-17 17.2	2.145	2.998	11.7	20.3
4 1	14 20.61	- 4 42.1	1.787	2.728	8.8	21.1	4 1	14 16.85	-17 4.0	2.054	2.982	8.6	20.0
4 11	14 11.97	- 3 47.3	1.734	2.717	5.1	20.9	4 11	14 9.91	-16 39.7	1.987	2.967	5.0	19.8
4 21	14 2.08	- 2 54.1	1.709	2.706	3.4	20.8	4 21	14 1.87	-16 6.1	1.948	2.951	1.5	19.5
5 1	13 51.97	- 2 8.5	1.712	2.693	6.1	20.9	5 1	13 53.57	-15 26.6	1.937	2.935	3.3	19.6
5 11	13 42.70	- 1 35.8	1.742	2.679	10.0	21.1	5 11	13 45.93	-14 46.2	1.954	2.920	7.1	19.8
5 21	13 35.13	- 1 19.2	1.796	2.665	13.6	21.3	5 21	13 39.69	-14 9.5	1.996	2.904	10.7	20.0
5 31	13 29.85	- 1 20.1	1.870	2.649	16.8	21.5	5 31	13 35.43	-13 40.9	2.060	2.888	13.8	20.2
<b>196978</b>	2003 UZ <sub>69</sub>		4 22.3 151°63	1°4/20.9	17		<b>282344</b>	2002 XM <sub>117</sub>		4 22.3 230°06	5°1/17.2	18	
3 22	14 22.44	- 9 57.9	2.114	2.984	11.1	20.9	3 22	14 21.52	+ 1 54.7	2.247	3.123	10.3	20.7
4 1	14 16.92	- 9 19.1	2.047	2.988	7.8	20.7	4 1	14 16.22	+ 2 52.9	2.182	3.118	7.7	20.5
4 11	14 9.81	- 8 34.4	2.005	2.991	4.2	20.5	4 11	14 9.43	+ 3 48.2	2.142	3.112	5.6	20.4
4 21	14 1.81	- 7 47.8	1.992	2.995	1.4	20.3	4 21	14 1.80	+ 4 35.0	2.130	3.106	5.3	20.3
5 1	13 53.75	- 7 4.0	2.006	2.998	4.2	20.5	5 1	13 54.08	+ 5 8.7	2.145	3.100	7.1	20.4
5 11	13 46.48	- 6 27.7	2.049	3.001	7.8	20.7	5 11	13 47.05	+ 5 25.9	2.187	3.094	9.8	20.6
5 21	13 40.65	- 6 2.1	2.116	3.003	11.1	20.9	5 21	13 41.33	+ 5 25.6	2.252	3.087	12.4	20.8
5 31	13 36.70	- 5 49.5	2.205	3.006	13.9	21.1	5 31	13 37.36	+ 5 8.0	2.336	3.081	14.7	20.9
<b>416493</b>	2003 WR <sub>187</sub>		4 22.3 217°09	0°1/22.2	16		<b>342541</b>	2008 UC <sub>223</sub>		4 22.3 303°90	1°8/23.8	18	
3 22	14 25.68	-14 19.3	1.949	2.808	12.4	22.4	3 22	14 23.33	-18 29.4	1.905	2.758	12.9	20.9
4 1	14 19.49	-13 45.4	1.866	2.800	8.9	22.2	4 1	14 17.86	-18 21.8	1.829	2.756	9.5	20.6
4 11	14 11.35	-13 0.6	1.807	2.791	4.9	21.9	4 11	14 10.47	-18 1.3	1.776	2.754	5.7	20.4
4 21	14 2.01	-12 8.3	1.776	2.781	0.6	21.6	4 21	14 1.93	-17 29.7	1.750	2.752	2.1	20.2
5 1	13 52.46	-11 13.5	1.774	2.770	3.9	21.8	5 1	13 53.22	-16 50.9	1.752	2.750	3.6	20.3
5 11	13 43.72	-10 22.1	1.800	2.759	8.1	22.0	5 11	13 45.36	-16 10.1	1.780	2.748	7.5	20.5
5 21	13 36.61	- 9 39.4	1.850	2.747	12.0	22.3	5 21	13 39.14	-15 32.8	1.834	2.746	11.2	20.7
5 31	13 31.71	- 9 9.3	1.923	2.734	15.2	22.4	5 31	13 35.13	-15 3.5	1.909	2.744	14.4	20.9
<b>233427</b>	2006 HQ <sub>31</sub>		4 22.3 344°40	1°8/23.7	17		<b>215697</b>	2003 YM <sub>102</sub>		4 22.3 141°76	1°3/21.2	18	
3 22	14 23.52	-18 4.1	1.765	2.622	13.6	20.7	3 22	14 25.50	-11 6.5	1.907	2.773	12.3	21.3
4 1	14 18.11	-18 1.9	1.690	2.620	10.0	20.5	4 1	14 19.18	-10 22.8	1.845	2.784	8.6	21.0
4 11	14 10.64	-17 46.6	1.639	2.618	6.0	20.2	4 11	14 11.08	- 9 31.5	1.809	2.795	4.6	20.8
4 21	14 1.93	-17 20.1	1.614	2.616	2.2	20.0	4 21	14 2.00	- 8 37.2	1.800	2.804	1.3	20.6
5 1	13 53.03	-16 46.0	1.616	2.614	3.8	20.1	5 1	13 52.92	- 7 45.4	1.821	2.813	4.4	20.8
5 11	13 45.03	-16 9.9	1.645	2.613	7.9	20.3	5 11	13 44.80	- 7 1.6	1.869	2.822	8.3	21.1
5 21	13 38.80	-15 37.3	1.697	2.612	11.8	20.6	5 21	13 38.36	- 6 29.5	1.941	2.830	11.9	21.3
5 31	13 34.92	-15 13.0	1.771	2.611	15.2	20.8	5 31	13 34.07	- 6 11.8	2.035	2.837	14.8	21.5
<b>50891</b>	2000 GH <sub>41</sub>		4 22.3 228°59	0°1/22.4	18		<b>437570</b>	2014 AA <sub>18</sub>		4 22.3 143°82	0°6/21.8	17	
3 22	14 21.76	-14 32.4	2.163	3.024	11.3	19.3	3 22	14 22.60	-12 8.1	2.130	2.995	11.2	21.7
4 1	14 16.50	-14 3.8	2.086	3.020	8.1	19.1	4 1	14 17.08	-11 43.3	2.059	2.997	8.0	21.5
4 11	14 9.63	-13 25.7	2.033	3.017	4.5	18.8	4 11	14 9.93	-11 11.5	2.015	3.000	4.3	21.3
4 21	14 1.81	-12 41.3	2.009	3.013	0.6	18.5	4 21	14 1.87	-10 35.6	1.997	3.002	0.7	21.0
5 1	13 53.86	-11 54.8	2.013	3.010	3.4	18.7	5 1	13 53.73	- 9 59.9	2.009	3.004	3.7	21.2
5 11	13 46.63	-11 11.2	2.044	3.006	7.1	19.0	5 11	13 46.35	- 9 28.7	2.048	3.006	7.4	21.5
5 21	13 40.81	-10 34.7	2.102	3.002	10.6	19.2	5 21	13 40.41	- 9 5.7	2.113	3.008	10.7	21.7
5 31	13 36.87	-10 8.7	2.181	2.998	13.5	19.4	5 31	13 36.38	- 8 53.3	2.199	3.010	13.6	21.9
<b>230936</b>	2004 XC <sub>2</sub>		4 22.3 135°03	3°8/25.9	18		<b>141346</b>	2002 AF <sub>16</sub>		4 22.3 149°09	3°9/16.9	18	
3 22	14 25.21	-25 33.5	2.232	3.048	12.6	20.7	3 22	14 20.42	+ 3 9.0	3.373	4.237	7.5	21.5
4 1	14 18.96	-25 37.1	2.160	3.057	9.8	20.5	4 1	14 14.96	+ 3 58.9	3.320	4.249	5.6	21.4
4 11	14 10.96	-25 24.6	2.111	3.067	6.8	20.4	4 11	14 8.58	+ 4 45.3	3.296	4.260	4.2	21.3
4 21	14 1.96	-24 56.6	2.089	3.076	4.3	20.2	4 21	14 1.71	+ 5 25.1	3.302	4.271	4.0	21.3
5 1	13 52.89	-24 15.8	2.095	3.085	4.3	20.2	5 1	13 54.86	+ 5 55.4	3.337	4.282	5.3	21.4
5 11	13 44.66	-23 27.1	2.130	3.093	6.8	20.4	5 11	13 48.51	+ 6 14.0	3.400	4.292	7.1	21.5
5 21	13 38.00	-22 36.1	2.191	3.101	9.7	20.6	5 21	13 43.08	+ 6 20.4	3.488	4.301	8.9	21.7
5 31	13 33.41	-21 48.4	2.275	3.109	12.4	20.8	5 31	13 38.85	+ 6 14.5	3.598	4.309	10.5	21.8
<b>340519</b>	2006 JC <sub>26</sub>		4 22.3 346°74	3°6/24.7	17		<b>416347</b>	2003 SQ <sub>327</sub>		4 22.3 201°05	3°5/25.6	16	
3 22	14 24.83	-21 23.2	1.705										

EPHEMERIDES

4 22.3

4 22.4

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>129216</b>	Chloecastle		4 22.3 246°85	2.4/25.3	17		<b>303300</b>	2004 SM <sub>55</sub>		4 22.3 151°70	3.3/24.9	16	
3 22	14 20.83	-24 0.4	2.798	3.617	10.2	20.5	3 22	14 27.39	-23 12.1	1.707	2.543	14.9	21.9
4 1	14 15.68	-23 30.1	2.697	3.600	7.8	20.3	4 1	14 20.90	-22 56.6	1.637	2.551	11.3	21.7
4 11	14 9.15	-22 45.9	2.620	3.583	5.2	20.1	4 11	14 12.19	-22 21.7	1.589	2.558	7.3	21.5
4 21	14 1.80	-21 49.1	2.572	3.566	2.8	19.9	4 21	14 2.19	-21 29.2	1.568	2.564	3.8	21.3
5 1	13 54.28	-20 42.8	2.554	3.548	3.1	19.9	5 1	13 52.10	-20 23.7	1.574	2.570	4.4	21.3
5 11	13 47.30	-19 31.7	2.565	3.530	5.7	20.0	5 11	13 43.13	-19 13.0	1.607	2.575	8.1	21.6
5 21	13 41.45	-18 20.8	2.603	3.511	8.5	20.2	5 21	13 36.18	-18 4.7	1.665	2.580	12.0	21.8
5 31	13 37.18	-17 15.0	2.666	3.492	11.1	20.3	5 31	13 31.81	-17 5.9	1.745	2.584	15.4	22.0
<b>243575</b>	1996 VW <sub>17</sub>		4 22.3 200°76	1°0/21.4	17		<b>376981</b>	2002 OV <sub>26</sub>		4 22.3 146°87	15°2/8.4	18	
3 22	14 21.86	-10 39.7	2.414	3.279	10.1	21.3	3 22	14 27.57	+17 29.7	1.246	2.113	17.4	20.9
4 1	14 16.42	-10 12.2	2.338	3.276	7.1	21.1	4 1	14 21.29	+20 31.7	1.224	2.122	15.6	20.8
4 11	14 9.55	-9 39.2	2.289	3.274	3.8	20.9	4 11	14 12.43	+23 6.4	1.225	2.130	15.3	20.8
4 21	14 1.84	-9 3.7	2.268	3.272	1.0	20.7	4 21	14 2.21	+24 59.2	1.247	2.137	16.4	20.9
5 1	13 54.04	-8 29.5	2.276	3.269	3.6	20.9	5 1	13 52.11	+26 2.0	1.289	2.144	18.4	21.1
5 11	13 46.88	-8 0.3	2.312	3.266	6.9	21.1	5 11	13 43.55	+26 14.5	1.348	2.150	20.8	21.2
5 21	13 40.97	-7 39.2	2.374	3.262	10.0	21.3	5 21	13 37.46	+25 43.0	1.422	2.155	23.0	21.4
5 31	13 36.76	-7 28.5	2.459	3.259	12.6	21.5	5 31	13 34.34	+24 35.9	1.507	2.159	24.8	21.6
<b>505571</b>	2014 BK <sub>15</sub>		4 22.3 229°10	0°5/22.8	17		<b>111666</b>	2002 BX <sub>5</sub>		4 22.3 292°07	4°7/26.8	18	
3 22	14 23.52	-15 22.2	2.341	3.193	10.8	21.9	3 22	14 22.90	-28 6.2	2.293	3.099	12.6	19.6
4 1	14 17.74	-15 3.0	2.253	3.183	7.8	21.7	4 1	14 17.46	-28 20.3	2.208	3.095	10.1	19.4
4 11	14 10.34	-14 34.7	2.191	3.172	4.4	21.5	4 11	14 10.25	-28 17.5	2.147	3.092	7.4	19.2
4 21	14 1.95	-13 59.4	2.157	3.161	0.8	21.2	4 21	14 1.96	-27 57.8	2.111	3.089	5.2	19.1
5 1	13 53.37	-13 20.6	2.152	3.149	3.2	21.4	5 1	13 53.47	-27 22.8	2.102	3.085	5.0	19.1
5 11	13 45.43	-12 42.6	2.175	3.137	6.8	21.6	5 11	13 45.70	-26 36.9	2.121	3.082	7.0	19.2
5 21	13 38.81	-12 9.7	2.225	3.124	10.1	21.8	5 21	13 39.41	-25 45.6	2.166	3.079	9.7	19.4
5 31	13 34.03	-11 45.3	2.298	3.111	13.0	21.9	5 31	13 35.14	-24 54.8	2.234	3.075	12.4	19.5
<b>513500</b>	2009 KE <sub>37</sub>		4 22.3 302°22	5°2/13.3	18		<b>227405</b>	2005 UT <sub>441</sub>		4 22.3 32°06	0°1/22.4	17	
3 22	14 16.22	+13 50.9	4.053	4.899	6.8	20.6	3 22	14 20.79	-16 10.3	1.429	2.306	15.0	20.3
4 1	14 11.99	+14 27.9	3.994	4.890	5.7	20.5	4 1	14 16.32	-15 15.4	1.372	2.315	10.7	20.1
4 11	14 6.98	+14 57.6	3.962	4.881	5.2	20.5	4 11	14 9.70	-14 4.8	1.339	2.324	5.9	19.8
4 21	14 1.54	+15 17.4	3.957	4.872	5.4	20.5	4 21	14 1.89	-12 44.5	1.330	2.335	0.8	19.5
5 1	13 56.06	+15 25.1	3.978	4.863	6.3	20.5	5 1	13 54.08	-11 22.6	1.347	2.345	4.4	19.8
5 11	13 50.95	+15 19.9	4.026	4.854	7.5	20.6	5 11	13 47.43	-10 8.2	1.390	2.357	9.2	20.1
5 21	13 46.54	+15 1.6	4.096	4.846	8.8	20.7	5 21	13 42.76	-9 8.1	1.455	2.369	13.5	20.4
5 31	13 43.10	+14 31.1	4.186	4.837	9.9	20.8	5 31	13 40.58	-8 26.5	1.540	2.381	17.0	20.6
<b>119997</b>	2002 YD <sub>6</sub>		4 22.3 169°12	1°1/23.1	18		<b>177302</b>	2003 YB <sub>7</sub>		4 22.3 233°53	3°1/24.5	17	R
3 22	14 27.58	-17 24.3	1.604	2.462	14.7	20.6	3 22	14 27.45	-21 10.1	1.818	2.658	14.0	20.5
4 1	14 21.09	-16 56.2	1.535	2.466	10.7	20.4	4 1	14 21.06	-21 19.4	1.732	2.649	10.6	20.3
4 11	14 12.32	-16 12.9	1.488	2.469	6.1	20.1	4 11	14 12.38	-21 13.5	1.668	2.639	6.8	20.0
4 21	14 2.19	-15 17.6	1.468	2.472	1.5	19.8	4 21	14 2.23	-20 52.7	1.631	2.628	3.5	19.8
5 1	13 51.94	-14 16.2	1.475	2.474	4.1	20.0	5 1	13 51.73	-20 19.7	1.622	2.618	4.3	19.8
5 11	13 42.82	-13 16.3	1.510	2.475	8.8	20.3	5 11	13 42.10	-19 39.8	1.640	2.606	8.1	20.0
5 21	13 35.74	-12 24.6	1.568	2.476	13.0	20.5	5 21	13 34.30	-18 59.4	1.682	2.595	12.1	20.2
5 31	13 31.31	-11 46.2	1.647	2.476	16.6	20.7	5 31	13 29.03	-18 24.5	1.747	2.582	15.5	20.4
<b>458141</b>	2010 HV <sub>58</sub>		4 22.3 311°09	3°2/24.2	17		<b>258675</b>	2002 EF <sub>129</sub>		4 22.3 328°45	0°9/22.9	17	
3 22	14 23.49	-20 9.8	1.263	2.132	17.1	21.1	3 22	14 22.23	-15 32.9	1.181	2.067	16.8	20.1
4 1	14 19.01	-20 13.2	1.178	2.112	13.0	20.7	4 1	14 18.07	-15 22.9	1.106	2.052	12.3	19.8
4 11	14 11.59	-19 56.8	1.114	2.092	8.2	20.4	4 11	14 11.04	-14 57.0	1.052	2.038	7.0	19.5
4 21	14 2.14	-19 21.0	1.072	2.073	3.7	20.1	4 21	14 2.08	-14 18.2	1.020	2.024	1.4	19.1
5 1	13 52.07	-18 30.1	1.055	2.054	5.1	20.1	5 1	13 52.66	-13 32.8	1.011	2.011	5.0	19.3
5 11	13 43.04	-17 32.4	1.061	2.036	10.3	20.3	5 11	13 44.38	-12 49.2	1.026	2.000	10.8	19.5
5 21	13 36.37	-16 37.4	1.089	2.018	15.5	20.6	5 21	13 38.49	-12 15.2	1.061	1.989	16.1	19.8
5 31	13 32.95	-15 53.7	1.135	2.002	20.1	20.8	5 31	13 35.80	-11 56.9	1.114	1.979	20.5	20.0
<b>488734</b>	2004 RR <sub>57</sub>		4 22.3 228°37	0°8/23.1	17		<b>19976</b>	1989 TD		4 22.4 235°57	1°7/23.7	18	
3 22	14 23.37	-17 7.1	2.246	3.095	11.3	22.0	3 22	14 26.84	-19 2.1	1.944	2.789	13.0	19.7
4 1	14 17.70	-16 34.2	2.157	3.084	8.3	21.8	4 1	14 20.50	-18 44.8	1.850	2.773	9.7	19.5
4 11	14 10.34	-15 49.6	2.092	3.072	4.7	21.5	4 11	14 12.04	-18 13.1	1.781	2.757	5.9	19.2
4 21	14 1.96	-14 55.7	2.056	3.060	1.1	21.3	4 21	14 2.20	-17 28.6	1.739	2.740	2.1	18.9
5 1	13 53.38	-13 57.0	2.049	3.047	3.2	21.4	5 1	13 52.03	-16 35.2	1.725	2.722	3.7	19.0
5 11	13 45.48	-12 58.8	2.071	3.033	7.0	21.6	5 11	13 42.62	-15 39.0	1.739	2.704	7.9	19.2
5 21	13 38.98	-12 6.3	2.119	3.019	10.5	21.8	5 21	13 34.89	-14 46.3	1.779	2.684	11.9	19.4
5 31	13 34.38	-11 23.7	2.189	3.005	13.5	22.0	5 31	13 29.49	-14 2.7	1.840	2.664	15.3	19.6
<b>388286</b>	2006 SW <sub>57</sub>		4 22.3 255°70	3°5/25.7	17		<b>388281</b>	2006 RW <sub>103</sub>		4 22.4 306°76	4°3/17.6	17	
3 22	14 22.23	-24 52.3	2.223	3.046	12.4	21.5	3 22	14 19.24	-2 46.0	2.100	2.983	10.6	21.1
4 1	14 16.97	-24 44.5	2.135	3.039	9.6	21.3	4 1	14 14.70	-1 19.0	2.037	2.981	7.6	20.9
4 11	14 9.97	-24 20.6	2.071	3.031	6.5	21.1	4 11	14 8.66	+0 9.5	2.000	2.979	5.0	20.7
4 21	14 1.91	-23 41.3	2.033	3.024	3.9	20.9	4 21	14 1.78	+1 32.9	1.990	2.977	4.5	20.7
5 1	13 53.66	-22 49.6	2.024	3.016	4.0	20.9	5 1	13 54.83	+2 44.7	2.009	2.975	6.7	20.8
5 11	13 46.13	-21 50.6	2.042	3.008	6.8	21.1	5 11	13 48.61	+3 39.8	2.054	2.973	9.7	21.0
5 21	13 40.06	-20 50.2	2.086	3.000	9.9	21.2	5 21	13 43.72	+4 15.5	2.122	2.971	12.6	21.1
5 31	13 35.98	-19 54.3	2.153	2.992	12.9	21.4	5 31	13 40.61	+4 31.3	2.211	2.970	15.1	21.3
<b>269591</b>	2009 XO <sub>7</sub>		4 22.3 213°98	0°2/22.2	18		<b>335175</b>	2005 AY <sub>33</sub>		4 22.4 147°50	2°5/19.9	18	
3 22	14 23.55	-14 15.0	2.347	3.202									

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>229782</b>	2008 <i>PZ</i> <sub>3</sub>		4 22.4 232°86	1.4/23.6	17		<b>378350</b>	2007 <i>HP</i> <sub>87</sub>		4 22.4	3°78	1°9/21.6	17
3 22	14 24.15	-18 13.0	2.223	3.068	11.6	21.3	3 22	14 28.57	-6 20.9	1.301	2.186	15.6	19.6
4 1	14 18.31	-17 56.0	2.133	3.057	8.6	21.1	4 1	14 22.21	-6 54.6	1.238	2.185	11.1	19.4
4 11	14 10.72	-17 27.2	2.067	3.044	5.1	20.8	4 11	14 13.12	-7 28.4	1.198	2.185	6.1	19.1
4 21	14 2.05	-16 48.3	2.029	3.032	1.7	20.6	4 21	14 2.37	-8 4.3	1.183	2.187	1.9	18.8
5 1	13 53.14	-16 3.0	2.021	3.019	3.3	20.6	5 1	13 51.38	-8 44.2	1.194	2.189	5.5	19.0
5 11	13 44.91	-15 16.0	2.040	3.005	6.9	20.9	5 11	13 41.66	-9 29.9	1.229	2.193	10.6	19.3
5 21	13 38.11	-14 32.5	2.086	2.991	10.4	21.0	5 21	13 34.32	-10 22.5	1.287	2.197	15.1	19.6
5 31	13 33.27	-13 56.8	2.155	2.976	13.5	21.2	5 31	13 30.03	-11 22.6	1.364	2.203	18.9	19.9
<b>435055</b>	2006 <i>WX</i> <sub>139</sub>		4 22.4 239°04	3°3/19.2	17		<b>185564</b>	2008 <i>AO</i> <sub>42</sub>		4 22.4	47°14	2°7/20.4	18
3 22	14 22.22	-2 30.0	2.396	3.269	9.9	21.5	3 22	14 23.17	-8 53.1	1.409	2.297	14.5	20.1
4 1	14 16.69	-1 59.0	2.324	3.263	7.1	21.3	4 1	14 18.02	-7 55.6	1.354	2.303	10.2	19.8
4 11	14 9.72	-1 28.4	2.278	3.258	4.4	21.1	4 11	14 10.66	-6 50.7	1.323	2.310	5.6	19.6
4 21	14 1.92	-1 2.0	2.260	3.252	3.4	21.1	4 21	14 2.05	-5 45.4	1.316	2.318	2.7	19.4
5 1	13 54.01	-0 43.4	2.270	3.246	5.3	21.2	5 1	13 53.43	-4 47.5	1.335	2.325	6.1	19.6
5 11	13 46.75	-0 35.7	2.309	3.240	8.2	21.3	5 11	13 45.98	-4 3.9	1.379	2.333	10.6	19.9
5 21	13 40.73	-0 40.3	2.372	3.234	11.0	21.5	5 21	13 40.58	-3 38.8	1.445	2.341	14.7	20.2
5 31	13 36.40	-0 57.8	2.456	3.228	13.4	21.7	5 31	13 37.73	-3 33.6	1.530	2.349	18.1	20.4
<b>105664</b>	2000 <i>SL</i> <sub>37</sub>		4 22.4 63°18	2°2/20.8	18		<b>129356</b>	3067 <i>P-L</i>		4 22.4	288°96	2°0/23.9	17
3 22	14 24.59	-10 22.9	1.303	2.190	15.5	19.2	3 22	14 23.48	-19 49.5	1.718	2.572	14.0	19.7
4 1	14 19.09	-9 27.6	1.254	2.203	10.9	19.0	4 1	14 18.43	-19 26.8	1.618	2.545	10.6	19.4
4 11	14 11.23	-8 23.2	1.228	2.216	5.8	18.7	4 11	14 11.07	-18 46.6	1.540	2.517	6.5	19.1
4 21	14 2.10	-7 16.7	1.226	2.229	2.2	18.5	4 21	14 2.13	-17 50.4	1.488	2.489	2.5	18.8
5 1	13 53.03	-6 16.5	1.250	2.243	5.9	18.8	5 1	13 52.70	-16 42.8	1.463	2.461	4.1	18.9
5 11	13 45.31	-5 30.1	1.298	2.256	10.7	19.1	5 11	13 44.00	-15 31.2	1.464	2.433	8.6	19.0
5 21	13 39.81	-5 1.9	1.369	2.270	15.0	19.4	5 21	13 37.06	-14 23.4	1.490	2.405	13.1	19.2
5 31	13 37.05	-4 53.7	1.457	2.284	18.5	19.7	5 31	13 32.65	-13 26.7	1.536	2.376	17.1	19.4
<b>375867</b>	2009 <i>VR</i> <sub>39</sub>		4 22.4 133°09	0°1/22.2	17		<b>305615</b>	2009 <i>AL</i> <sub>1</sub>		4 22.4	84°63	5°6/18.6	18
3 22	14 24.88	-13 31.9	2.102	2.961	11.6	22.0	3 22	14 25.74	-1 43.6	1.372	2.262	14.6	20.6
4 1	14 18.67	-13 8.1	2.038	2.972	8.3	21.8	4 1	14 19.86	-0 41.1	1.321	2.268	10.6	20.4
4 11	14 10.81	-12 36.1	1.999	2.983	4.5	21.6	4 11	14 11.67	+0 20.3	1.293	2.274	6.9	20.2
4 21	14 2.05	-11 58.8	1.989	2.993	0.5	21.3	4 21	14 2.18	+1 12.5	1.290	2.280	5.8	20.1
5 1	13 53.26	-11 20.6	2.007	3.003	3.5	21.5	5 1	13 52.68	+1 47.9	1.312	2.286	8.5	20.3
5 11	13 45.34	-10 45.9	2.053	3.013	7.3	21.8	5 11	13 44.44	+2 1.9	1.358	2.292	12.5	20.5
5 21	13 38.95	-10 18.7	2.125	3.022	10.6	22.0	5 21	13 38.36	+1 53.2	1.424	2.298	16.3	20.8
5 31	13 34.54	-10 1.7	2.219	3.030	13.5	22.2	5 31	13 34.95	+1 23.0	1.509	2.304	19.4	21.0
<b>386241</b>	2008 <i>AR</i> <sub>59</sub>		4 22.4 248°72	4°7/17.1	17		<b>464902</b>	2005 <i>SE</i> <sub>80</sub>		4 22.4	124°83	2°7/19.8	17
3 22	14 20.77	+1 31.8	2.456	3.330	9.6	20.9	3 22	14 22.78	-8 3.7	1.852	2.729	12.1	21.5
4 1	14 15.66	+2 31.7	2.382	3.318	7.1	20.7	4 1	14 17.31	-6 52.9	1.794	2.738	8.5	21.3
4 11	14 9.17	+3 29.6	2.335	3.305	5.2	20.6	4 11	14 10.12	-5 36.6	1.761	2.746	4.7	21.1
4 21	14 1.86	+4 20.4	2.315	3.292	4.9	20.5	4 21	14 1.99	-4 20.8	1.755	2.755	2.8	21.0
5 1	13 54.42	+4 59.4	2.324	3.278	6.7	20.6	5 1	13 53.87	-3 12.5	1.778	2.763	5.5	21.2
5 11	13 47.57	+5 23.3	2.359	3.265	9.2	20.7	5 11	13 46.67	-2 17.5	1.828	2.770	9.2	21.4
5 21	13 41.89	+5 30.6	2.418	3.251	11.8	20.9	5 21	13 41.08	-1 39.4	1.901	2.778	12.6	21.7
5 31	13 37.83	+5 21.2	2.497	3.237	14.0	21.0	5 31	13 37.57	-1 19.6	1.995	2.785	15.5	21.9
<b>87058</b>	2000 <i>KY</i> <sub>35</sub>		4 22.4 227°77	0°3/22.6	18		<b>222737</b>	2002 <i>AU</i> <sub>190</sub>		4 22.4	124°26	1°7/20.9	17
3 22	14 22.79	-16 17.1	1.843	2.705	12.9	19.8	3 22	14 24.54	-9 4.8	1.988	2.858	11.7	21.3
4 1	14 17.51	-15 29.5	1.765	2.700	9.3	19.6	4 1	14 18.47	-8 28.5	1.929	2.869	8.2	21.1
4 11	14 10.33	-14 28.3	1.711	2.694	5.2	19.3	4 11	14 10.72	-7 47.1	1.895	2.880	4.5	20.9
4 21	14 2.01	-13 17.3	1.684	2.689	0.8	19.0	4 21	14 2.07	-7 4.8	1.889	2.891	1.7	20.7
5 1	13 53.53	-12 2.8	1.686	2.683	3.8	19.2	5 1	13 53.41	-6 26.5	1.911	2.901	4.5	20.9
5 11	13 45.92	-10 51.8	1.714	2.677	8.1	19.5	5 11	13 45.65	-5 56.6	1.961	2.911	8.2	21.2
5 21	13 39.96	-9 50.7	1.767	2.671	12.0	19.7	5 21	13 39.47	-5 38.1	2.035	2.921	11.5	21.4
5 31	13 36.20	-9 3.9	1.842	2.665	15.4	19.9	5 31	13 35.32	-5 32.8	2.131	2.930	14.4	21.6
<b>102799</b>	1999 <i>VO</i> <sub>165</sub>		4 22.4 343°89	1°0/23.1	18		<b>513047</b>	2017 <i>VV</i> <sub>7</sub>		4 22.4	146°05	1°0/23.4	17
3 22	14 23.68	-16 13.5	1.856	2.716	12.9	19.8	3 22	14 21.08	-17 43.1	2.421	3.270	10.7	21.7
4 1	14 18.14	-16 3.8	1.783	2.715	9.4	19.5	4 1	14 15.90	-17 13.6	2.347	3.274	7.8	21.5
4 11	14 10.67	-15 42.9	1.733	2.714	5.4	19.3	4 11	14 9.30	-16 33.5	2.299	3.278	4.5	21.3
4 21	14 2.05	-15 13.0	1.710	2.714	1.4	19.0	4 21	14 1.90	-15 45.4	2.278	3.282	1.3	21.0
5 1	13 53.27	-14 38.3	1.715	2.713	3.6	19.2	5 1	13 54.44	-14 53.2	2.287	3.285	2.9	21.2
5 11	13 45.36	-14 3.9	1.747	2.713	7.7	19.4	5 11	13 47.66	-14 1.5	2.324	3.289	6.2	21.4
5 21	13 39.12	-13 34.6	1.803	2.712	11.5	19.7	5 21	13 42.16	-13 14.7	2.388	3.292	9.3	21.6
5 31	13 35.11	-13 14.6	1.881	2.712	14.8	19.9	5 31	13 38.37	-12 36.5	2.475	3.295	12.0	21.8
<b>366281</b>	2013 <i>AA</i> <sub>103</sub>		4 22.4 207°90	3°9/18.2	17		<b>198655</b>	2005 <i>BV</i> <sub>10</sub>		4 22.4	175°58	4°0/18.3	17
3 22	14 21.22	+0 0.6	2.584	3.456	9.3	21.0	3 22	14 23.22	-0 24.1	2.498	3.368	9.6	20.9
4 1	14 15.87	+0 43.5	2.516	3.453	6.8	20.8	4 1	14 17.29	+0 23.6	2.434	3.370	7.0	20.7
4 11	14 9.24	+1 23.4	2.475	3.449	4.6	20.7	4 11	14 10.01	+1 9.7	2.398	3.372	4.7	20.5
4 21	14 1.87	+1 57.5	2.462	3.446	4.0	20.6	4 21	14 1.99	+1 50.0	2.389	3.374	4.1	20.5
5 1	13 54.44	+2 22.0	2.478	3.442	5.7	20.7	5 1	13 53.92	+2 20.3	2.410	3.375	5.9	20.6
5 11	13 47.60	+2 34.1	2.521	3.438	8.2	20.9	5 11	13 46.53	+2 37.7	2.459	3.375	8.5	20.8
5 21	13 41.91	+2 32.8	2.588	3.433	10.7	21.0	5 21	13 40.37	+2 40.9	2.532	3.375	11.0	20.9
5 31	13 37.77	+2 17.7	2.677	3.429	12.9	21.2	5 31	13 35.85	+2 29.8	2.627	3.374	13.2	21.1
<b>470017</b>	2006 <i>RH</i> <sub>46</sub>		4 22.4 262°79	1°1/23.3	17		<b>353515</b>	2011 <i>SE</i> <sub>115</sub>		4 22.4	245°53	2°2/19.9	18
3 22	14 24.21	-16											

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>370984</b>	2005 <i>SV</i> <sub>280</sub>		4 22.4 191°08	4.1/26.6	17		<b>504175</b>	2006 <i>SN</i> <sub>397</sub>		4 22.4 152°54	1.0/23.5	18	
3 22	14 25.98	-28 3.4	2.558	3.353	11.8	23.3	3 22	14 22.18	-17 24.2	2.893	3.733	9.4	23.2
4 1	14 19.47	-27 59.2	2.469	3.352	9.3	23.1	4 1	14 16.48	-17 10.0	2.819	3.741	6.8	23.0
4 11	14 11.31	-27 38.6	2.404	3.349	6.7	22.9	4 11	14 9.57	-16 47.5	2.771	3.748	4.0	22.8
4 21	14 2.16	-27 1.8	2.366	3.346	4.5	22.8	4 21	14 1.97	-16 18.4	2.753	3.755	1.3	22.7
5 1	13 52.85	-26 11.0	2.357	3.342	4.4	22.8	5 1	13 54.32	-15 45.4	2.765	3.762	2.5	22.8
5 11	13 44.27	-25 10.9	2.377	3.337	6.4	22.9	5 11	13 47.26	-15 11.9	2.806	3.768	5.4	23.0
5 21	13 37.09	-24 6.9	2.425	3.331	9.1	23.0	5 21	13 41.31	-14 41.1	2.874	3.774	8.1	23.1
5 31	13 31.82	-23 4.9	2.497	3.324	11.7	23.2	5 31	13 36.85	-14 15.8	2.967	3.780	10.4	23.3
<b>96004</b>	2004 <i>NH</i> <sub>25</sub>		4 22.4 189°77	5.5/16.0	18		<b>372459</b>	2009 <i>SF</i> <sub>136</sub>		4 22.4 158°90	0.2/22.6	17	
3 22	14 22.13	+ 3 28.2	2.405	3.277	9.9	19.9	3 22	14 24.05	-15 19.2	2.144	2.999	11.6	22.7
4 1	14 16.59	+ 4 48.8	2.345	3.276	7.5	19.8	4 1	14 18.13	-14 45.8	2.074	3.005	8.3	22.4
4 11	14 9.66	+ 6 5.8	2.311	3.274	5.8	19.7	4 11	14 10.58	-14 2.2	2.028	3.011	4.6	22.2
4 21	14 1.95	+ 7 13.2	2.305	3.272	5.8	19.6	4 21	14 2.09	-13 11.7	2.011	3.016	0.7	21.9
5 1	13 54.19	+ 8 6.0	2.328	3.269	7.5	19.7	5 1	13 53.56	-12 18.8	2.023	3.020	3.4	22.2
5 11	13 47.10	+ 8 40.7	2.377	3.265	9.9	19.9	5 11	13 45.83	-11 28.8	2.063	3.024	7.1	22.4
5 21	13 41.26	+ 8 56.1	2.450	3.261	12.3	20.0	5 21	13 39.58	-10 46.2	2.129	3.027	10.5	22.6
5 31	13 37.08	+ 8 52.7	2.542	3.256	14.4	20.2	5 31	13 35.30	-10 14.6	2.217	3.030	13.4	22.8
<b>132159</b>	2002 <i>EP</i> <sub>2</sub>		4 22.4 305°55	4.3/25.3	17		<b>312720</b>	2010 <i>RE</i> <sub>49</sub>		4 22.4 286°36	1.8/24.1	18	
3 22	14 23.88	-23 42.6	1.354	2.207	17.1	19.7	3 22	14 21.49	-19 29.8	2.312	3.155	11.3	20.6
4 1	14 19.11	-23 40.6	1.274	2.196	13.2	19.4	4 1	14 16.44	-19 20.1	2.217	3.139	8.4	20.4
4 11	14 11.57	-23 15.3	1.214	2.184	8.9	19.1	4 11	14 9.74	-18 58.5	2.148	3.122	5.2	20.2
4 21	14 2.22	-22 27.0	1.177	2.173	4.9	18.9	4 21	14 2.01	-18 26.4	2.106	3.106	2.2	19.9
5 1	13 52.44	-21 20.0	1.165	2.162	5.4	18.8	5 1	13 54.03	-17 46.8	2.092	3.090	3.2	20.0
5 11	13 43.77	-20 3.4	1.177	2.151	9.7	19.1	5 11	13 46.65	-17 4.2	2.106	3.073	6.6	20.2
5 21	13 37.41	-18 47.5	1.212	2.141	14.4	19.3	5 21	13 40.58	-16 23.4	2.146	3.057	9.9	20.3
5 31	13 34.12	-17 41.6	1.266	2.131	18.6	19.5	5 31	13 36.36	-15 48.6	2.209	3.040	12.9	20.5
<b>280620</b>	2004 <i>XT</i> <sub>83</sub>		4 22.4 138°51	2.8/19.8	18		<b>313721</b>	2003 <i>UU</i> <sub>149</sub>		4 22.4 166°58	1.1/21.4	18	
3 22	14 22.85	- 5 53.3	2.125	2.999	10.9	21.0	3 22	14 26.59	-11 2.7	2.024	2.886	11.9	21.2
4 1	14 17.21	- 5 5.9	2.064	3.006	7.7	20.8	4 1	14 19.99	-10 28.1	1.955	2.892	8.4	20.9
4 11	14 10.03	- 4 16.0	2.029	3.013	4.4	20.6	4 11	14 11.61	- 9 46.4	1.912	2.897	4.5	20.7
4 21	14 2.00	- 3 28.2	2.022	3.020	2.8	20.5	4 21	14 2.23	- 9 1.4	1.898	2.901	1.1	20.5
5 1	13 53.95	- 2 47.3	2.043	3.026	5.2	20.7	5 1	13 52.78	- 8 18.0	1.912	2.905	4.2	20.7
5 11	13 46.70	- 2 17.5	2.092	3.032	8.4	20.9	5 11	13 44.22	- 7 41.0	1.954	2.908	8.0	20.9
5 21	13 40.87	- 2 1.2	2.165	3.037	11.5	21.1	5 21	13 37.26	- 7 14.3	2.022	2.910	11.5	21.2
5 31	13 36.92	- 1 59.5	2.260	3.043	14.1	21.3	5 31	13 32.41	- 7 0.2	2.112	2.911	14.5	21.4
<b>349877</b>	2009 <i>DC</i> <sub>81</sub>		4 22.4 227°25	4.8/16.6	18		<b>241312</b>	2007 <i>VA</i> <sub>13</sub>		4 22.4 7°71	0.5/22.8	17	
3 22	14 19.53	+ 0 31.9	2.368	3.246	9.7	21.1	3 22	14 22.31	-15 24.5	1.984	2.845	12.1	21.2
4 1	14 14.80	+ 1 56.6	2.303	3.241	7.2	20.9	4 1	14 17.07	-15 4.9	1.911	2.846	8.7	21.0
4 11	14 8.71	+ 3 20.3	2.265	3.236	5.2	20.8	4 11	14 10.07	-14 35.0	1.863	2.846	4.9	20.7
4 21	14 1.84	+ 4 37.0	2.255	3.231	5.1	20.7	4 21	14 2.04	-13 57.6	1.842	2.846	0.9	20.4
5 1	13 54.90	+ 5 41.0	2.273	3.225	7.0	20.8	5 1	13 53.90	-13 16.9	1.848	2.846	3.4	20.6
5 11	13 48.59	+ 6 28.2	2.317	3.219	9.5	21.0	5 11	13 46.56	-12 38.1	1.882	2.847	7.4	20.9
5 21	13 43.48	+ 6 56.6	2.385	3.213	12.1	21.2	5 21	13 40.75	-12 5.6	1.941	2.848	11.0	21.1
5 31	13 39.98	+ 7 6.0	2.473	3.207	14.3	21.3	5 31	13 36.99	-11 43.1	2.022	2.848	14.1	21.3
<b>120596</b>	1995 <i>UM</i> <sub>12</sub>		4 22.4 279°07	0.6/22.9	18		<b>274282</b>	2008 <i>QW</i> <sub>2</sub>		4 22.4 289°79	5.2/17.4	18	
3 22	14 23.64	-15 30.2	1.840	2.702	12.9	20.0	3 22	14 21.35	- 2 37.7	1.759	2.645	12.1	20.1
4 1	14 18.24	-15 14.1	1.755	2.689	9.4	19.8	4 1	14 16.69	- 1 5.2	1.673	2.618	8.9	19.8
4 11	14 10.82	-14 46.7	1.693	2.676	5.3	19.5	4 11	14 10.02	+ 0 32.1	1.612	2.591	5.9	19.6
4 21	14 2.12	-14 10.5	1.658	2.663	1.1	19.2	4 21	14 2.06	+ 2 6.0	1.578	2.564	5.5	19.5
5 1	13 53.13	-13 29.7	1.651	2.649	3.8	19.4	5 1	13 53.76	+ 3 27.7	1.570	2.537	8.2	19.6
5 11	13 44.92	-12 49.9	1.671	2.636	8.1	19.6	5 11	13 46.16	+ 4 30.0	1.588	2.509	11.9	19.7
5 21	13 38.36	-12 16.4	1.715	2.623	12.1	19.8	5 21	13 40.14	+ 5 8.4	1.628	2.482	15.5	19.9
5 31	13 34.08	-11 53.6	1.780	2.609	15.6	20.0	5 31	13 36.33	+ 5 21.7	1.686	2.454	18.7	20.0
<b>496356</b>	2013 <i>QN</i> <sub>69</sub>		4 22.4 256°17	1.6/21.1	17		<b>387365</b>	2012 <i>XK</i> <sub>64</sub>		4 22.4 240°90	4.8/17.6	18	
3 22	14 24.70	-10 21.1	1.833	2.705	12.5	21.7	3 22	14 21.32	+ 0 59.9	2.203	3.080	10.4	20.1
4 1	14 18.99	- 9 41.2	1.746	2.688	8.9	21.5	4 1	14 16.14	+ 1 54.3	2.140	3.078	7.7	19.9
4 11	14 11.24	- 8 52.9	1.684	2.670	4.8	21.2	4 11	14 9.48	+ 2 46.0	2.103	3.076	5.4	19.8
4 21	14 2.18	- 8 0.8	1.649	2.652	1.6	20.9	4 21	14 1.97	+ 3 29.9	2.093	3.073	5.0	19.8
5 1	13 52.81	- 7 10.3	1.642	2.634	4.8	21.1	5 1	13 54.41	+ 4 1.2	2.111	3.071	6.9	19.9
5 11	13 44.20	- 6 27.5	1.661	2.615	9.1	21.3	5 11	13 47.55	+ 4 16.8	2.155	3.069	9.6	20.0
5 21	13 37.24	- 5 57.1	1.705	2.596	13.1	21.5	5 21	13 42.02	+ 4 15.3	2.223	3.066	12.3	20.2
5 31	13 32.55	- 5 42.1	1.769	2.576	16.5	21.7	5 31	13 38.25	+ 3 57.2	2.310	3.064	14.6	20.4
<b>469152</b>	2015 <i>GT</i> <sub>19</sub>		4 22.4 205°14	0.2/22.5	17		<b>299854</b>	2006 <i>SM</i> <sub>256</sub>		4 22.4 271°58	0.1/22.3	17	
3 22	14 24.82	-13 25.1	2.166	3.024	11.4	21.6	3 22	14 20.40	-14 53.5	2.191	3.052	11.1	20.8
4 1	14 18.75	-13 20.4	2.089	3.022	8.2	21.4	4 1	14 15.61	-14 9.9	2.109	3.044	8.0	20.6
4 11	14 10.95	-13 8.3	2.036	3.019	4.5	21.1	4 11	14 9.25	-13 15.9	2.052	3.036	4.4	20.4
4 21	14 2.14	-12 51.0	2.012	3.017	0.6	20.8	4 21	14 1.95	-12 14.9	2.023	3.028	0.5	20.0
5 1	13 53.16	-12 31.4	2.017	3.014	3.4	21.0	5 1	13 54.52	-11 11.9	2.023	3.019	3.4	20.3
5 11	13 44.93	-12 13.5	2.050	3.011	7.2	21.3	5 11	13 47.76	-10 12.5	2.050	3.011	7.2	20.5
5 21	13 38.15	-12 0.7	2.108	3.008	10.6	21.5	5 21	13 42.34	- 9 21.5	2.103	3.003	10.6	20.7
5 31	13 33.34	-11 55.9	2.189	3.004	13.5	21.7	5 31	13 38.76	- 8 42.5	2.178	2.994	13.5	20.9
<b>475580</b>	2006 <i>UP</i> <sub>32</sub>		4 22.4 224°17	0.1/22.5	16		<b>311185</b>	2004 <i>XV</i> <sub>2</sub>		4 22.4			

EPHEMERIDES

4 22.4

4 22.4

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>315227</b>	2007 <i>RB</i> <sub>179</sub>		4 22.4 145°25	0°9/21.6	16		<b>115205</b>	2003 <i>SZ</i> <sub>117</sub>		4 22.4 241°49	4°2/26.1	18	
3 22	14 25.00	-12 48.5	1.642	2.513	13.7	21.3	3 22	14 24.73	-26 10.5	2.235	3.048	12.7	19.8
4 1	14 19.17	-11 59.9	1.578	2.519	9.7	21.0	4 1	14 18.89	-26 16.9	2.141	3.037	10.0	19.6
4 11	14 11.28	-11 0.5	1.538	2.524	5.2	20.8	4 11	14 11.15	-26 6.9	2.071	3.025	7.0	19.4
4 21	14 2.20	-9 55.5	1.524	2.529	1.0	20.5	4 21	14 2.23	-25 40.3	2.027	3.012	4.6	19.2
5 1	13 53.07	-8 51.6	1.538	2.533	4.6	20.8	5 1	13 53.02	-24 59.2	2.012	3.000	4.6	19.2
5 11	13 45.00	-7 55.8	1.578	2.537	9.1	21.0	5 11	13 44.51	-24 8.3	2.024	2.987	7.1	19.3
5 21	13 38.80	-7 13.4	1.643	2.541	13.1	21.3	5 21	13 37.50	-23 13.4	2.062	2.974	10.2	19.5
5 31	13 35.01	-6 47.5	1.727	2.544	16.5	21.5	5 31	13 32.60	-22 20.6	2.123	2.960	13.1	19.7
<b>425657</b>	2010 <i>XG</i> <sub>4</sub>		4 22.4 61°32	6°8/28.7	17		<b>460402</b>	2014 <i>SB</i> <sub>102</sub>		4 22.4 279°18	0°7/21.9	16	
3 22	14 24.05	-32 45.8	1.674	2.475	16.8	20.3	3 22	14 24.72	-13 23.5	1.407	2.284	15.1	21.5
4 1	14 18.75	-32 39.8	1.604	2.482	13.7	20.1	4 1	14 19.56	-12 43.3	1.324	2.267	10.9	21.2
4 11	14 11.13	-32 6.1	1.554	2.490	10.4	19.9	4 11	14 11.80	-11 49.0	1.263	2.250	6.0	20.8
4 21	14 2.19	-31 4.6	1.527	2.498	7.6	19.8	4 21	14 2.33	-10 45.2	1.228	2.232	0.9	20.4
5 1	13 53.17	-29 39.2	1.526	2.506	6.9	19.7	5 1	13 52.43	-9 39.2	1.218	2.215	5.2	20.7
5 11	13 45.35	-27 58.5	1.551	2.515	8.8	19.9	5 11	13 43.50	-8 39.8	1.233	2.197	10.5	20.9
5 21	13 39.62	-26 12.8	1.600	2.523	11.9	20.1	5 21	13 36.67	-7 54.2	1.270	2.179	15.4	21.2
5 31	13 36.55	-24 32.1	1.672	2.531	15.0	20.3	5 31	13 32.70	-7 27.3	1.326	2.161	19.6	21.4
<b>173886</b>	2001 <i>UZ</i> <sub>64</sub>		4 22.4 153°07	1°4/24.1	18		<b>109928</b>	2001 <i>SD</i> <sub>32</sub>		4 22.4 356°12	0°6/22.0	18	
3 22	14 21.68	-19 38.0	2.845	3.679	9.7	20.3	3 22	14 24.09	-11 44.4	1.359	2.243	15.2	18.2
4 1	14 16.17	-19 15.4	2.770	3.687	7.1	20.2	4 1	14 18.98	-11 36.9	1.294	2.240	10.9	17.9
4 11	14 9.41	-18 42.8	2.721	3.694	4.3	20.0	4 11	14 11.38	-11 20.4	1.250	2.238	5.9	17.6
4 21	14 1.97	-18 1.9	2.701	3.701	1.7	19.8	4 21	14 2.27	-10 58.5	1.231	2.236	0.8	17.2
5 1	13 54.50	-17 15.9	2.711	3.708	2.6	19.9	5 1	13 52.93	-10 36.5	1.238	2.235	4.9	17.5
5 11	13 47.63	-16 28.6	2.750	3.714	5.4	20.1	5 11	13 44.73	-10 20.0	1.268	2.235	10.0	17.8
5 21	13 41.89	-15 43.8	2.816	3.720	8.1	20.3	5 21	13 38.68	-10 13.8	1.321	2.236	14.5	18.1
5 31	13 37.66	-15 4.9	2.907	3.725	10.5	20.4	5 31	13 35.43	-10 20.7	1.393	2.237	18.3	18.3
<b>510316</b>	2011 <i>QL</i> <sub>97</sub>		4 22.4 159°41	6°2/30.1	18		<b>282391</b>	2003 <i>SK</i> <sub>131</sub>		4 22.4 256°60	0°8/21.8	17	
3 22	14 26.64	-38 4.8	3.174	3.895	11.2	22.9	3 22	14 24.75	-13 1.7	1.661	2.532	13.6	21.1
4 1	14 19.86	-38 36.0	3.090	3.902	9.6	22.7	4 1	14 19.23	-12 17.9	1.576	2.517	9.7	20.8
4 11	14 11.52	-38 50.2	3.028	3.909	8.0	22.6	4 11	14 11.47	-11 22.0	1.515	2.501	5.3	20.5
4 21	14 2.24	-38 46.0	2.993	3.915	6.7	22.5	4 21	14 2.28	-10 18.4	1.481	2.485	0.9	20.2
5 1	13 52.80	-38 23.9	2.984	3.921	6.2	22.5	5 1	13 52.78	-9 13.7	1.474	2.469	4.7	20.4
5 11	13 44.00	-37 46.6	3.003	3.926	6.9	22.6	5 11	13 44.13	-8 15.3	1.493	2.452	9.4	20.6
5 21	13 36.50	-36 58.5	3.049	3.930	8.3	22.7	5 21	13 37.31	-7 29.2	1.536	2.435	13.8	20.9
5 31	13 30.79	-36 4.7	3.119	3.934	9.9	22.8	5 31	13 32.96	-6 59.8	1.599	2.418	17.5	21.1
<b>156987</b>	2003 <i>KC</i> <sub>12</sub>		4 22.4 303°20	4°9/17.9	17		<b>142429</b>	2002 <i>SH</i> <sub>43</sub>		4 22.4 226°94	0°9/23.1	17	
3 22	14 20.49	-3 43.9	1.650	2.539	12.6	20.0	3 22	14 25.85	-16 27.3	1.958	2.811	12.6	21.7
4 1	14 16.03	-2 14.5	1.580	2.528	9.1	19.7	4 1	14 19.74	-16 7.8	1.872	2.801	9.2	21.4
4 11	14 9.62	-0 41.1	1.535	2.517	5.8	19.5	4 11	14 11.65	-15 36.4	1.810	2.791	5.3	21.2
4 21	14 2.02	+0 48.1	1.516	2.506	5.1	19.4	4 21	14 2.31	-14 55.4	1.776	2.779	1.3	20.8
5 1	13 54.24	+2 4.4	1.523	2.495	7.8	19.6	5 1	13 52.71	-14 9.0	1.770	2.768	3.6	21.0
5 11	13 47.32	+3 0.9	1.555	2.484	11.6	19.7	5 11	13 43.90	-13 22.9	1.792	2.756	7.8	21.2
5 21	13 42.08	+3 34.0	1.609	2.473	15.2	19.9	5 21	13 36.72	-12 42.4	1.839	2.743	11.7	21.4
5 31	13 39.07	+3 42.9	1.681	2.463	18.2	20.1	5 31	13 31.76	-12 12.0	1.908	2.729	15.0	21.6
<b>312134</b>	2007 <i>TZ</i> <sub>282</sub>		4 22.4 120°38	0°5/21.9	18		<b>137518</b>	1999 <i>VA</i> <sub>43</sub>		4 22.4 268°80	0°9/21.7	17	
3 22	14 27.36	-12 52.1	1.682	2.548	13.7	21.4	3 22	14 24.94	-12 33.6	1.699	2.570	13.3	21.5
4 1	14 20.74	-12 23.0	1.625	2.563	9.7	21.2	4 1	14 19.40	-11 53.4	1.608	2.548	9.6	21.2
4 11	14 12.08	-11 44.5	1.591	2.576	5.2	21.0	4 11	14 11.61	-11 1.7	1.540	2.526	5.2	20.9
4 21	14 2.31	-11 0.6	1.585	2.590	0.7	20.7	4 21	14 2.32	-10 2.5	1.498	2.503	1.0	20.5
5 1	13 52.56	-10 16.8	1.606	2.602	4.3	21.0	5 1	13 52.62	-9 2.1	1.484	2.480	4.7	20.7
5 11	13 43.93	-9 38.8	1.655	2.614	8.7	21.3	5 11	13 43.70	-8 7.5	1.497	2.456	9.5	21.0
5 21	13 37.24	-9 11.2	1.727	2.626	12.5	21.5	5 21	13 36.53	-7 24.8	1.533	2.432	13.9	21.2
5 31	13 32.97	-8 56.9	1.820	2.637	15.8	21.8	5 31	13 31.84	-6 58.2	1.590	2.407	17.6	21.3
<b>275510</b>	1995 <i>WB</i> <sub>33</sub>		4 22.4 202°95	1°5/21.0	17		<b>474928</b>	2005 <i>SG</i> <sub>241</sub>		4 22.4 238°52	0°4/22.9	16	
3 22	14 22.09	-10 55.7	1.948	2.820	11.8	20.7	3 22	14 20.37	-16 24.4	2.831	3.678	9.3	22.6
4 1	14 16.90	-10 3.4	1.877	2.819	8.3	20.5	4 1	14 15.35	-15 46.8	2.737	3.664	6.7	22.4
4 11	14 9.98	-9 3.0	1.831	2.817	4.5	20.3	4 11	14 9.05	-14 59.9	2.670	3.650	3.8	22.2
4 21	14 2.06	-7 59.4	1.812	2.816	1.5	20.0	4 21	14 1.98	-14 6.3	2.631	3.635	0.8	21.9
5 1	13 54.05	-6 58.4	1.822	2.814	4.5	20.2	5 1	13 54.78	-13 9.3	2.623	3.620	2.7	22.1
5 11	13 46.84	-6 5.9	1.859	2.812	8.4	20.5	5 11	13 48.08	-12 13.4	2.644	3.605	5.8	22.3
5 21	13 41.16	-5 26.1	1.920	2.810	11.9	20.7	5 21	13 42.43	-11 22.4	2.692	3.589	8.7	22.4
5 31	13 37.50	-5 1.8	2.003	2.808	14.9	20.9	5 31	13 38.25	-10 39.6	2.764	3.572	11.2	22.6
<b>129285</b>	2005 <i>SG</i> <sub>4</sub>		4 22.4 250°46	0°3/22.0	17		<b>520204</b>	2014 <i>DS</i> <sub>150</sub>		4 22.4 308°04	4°3/25.8	16	
3 22	14 20.47	-13 25.8	2.585	3.444	9.7	20.5	3 22	14 24.36	-24 58.4	2.084	2.908	13.1	21.4
4 1	14 15.49	-12 50.2	2.496	3.431	6.9	20.3	4 1	14 18.73	-25 23.9	1.998	2.899	10.3	21.2
4 11	14 9.14	-12 6.9	2.433	3.417	3.8	20.1	4 11	14 11.12	-25 34.2	1.935	2.891	7.2	21.0
4 21	14 1.96	-11 18.5	2.399	3.404	0.5	19.8	4 21	14 2.25	-25 28.7	1.897	2.883	4.7	20.8
5 1	13 54.63	-10 29.1	2.394	3.390	3.1	20.0	5 1	13 53.08	-25 8.9	1.887	2.875	4.8	20.8
5 11	13 47.85	-9 42.9	2.418	3.376	6.4	20.2	5 11	13 44.64	-24 38.8	1.904	2.868	7.4	20.9
5 21	13 42.19	-9 3.6	2.468	3.361	9.5	20.3	5 21	13 37.79	-24 3.8	1.946	2.860	10.6	21.1
5 31	13 38.12	-8 34.1	2.542	3.347	12.1	20.5	5 31	13 33.13	-23 29.6	2.011	2.853	13.5	21.3
<b>110487</b>	2001 <i>TW</i> <sub>61</sub>		4 22.4 198°30	1°4/21.2	18		<b>440735</b>	2006 <i>BY</i> <sub>48</sub>		4 22.4 179°42	14°3/1.9	18	

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>170488</b>	2003 <i>UQ</i> <sub>287</sub>		4 22.4 76°86'	0°3/22.2	18		<b>26026</b>	4664 <i>P-L</i>		4 22.4 231°44'	1°7/23.9	18	
3 22	14 26.67	-12 57.4	1.460	2.334	14.9	20.1	3 22	14 25.06	-18 27.1	2.351	3.191	11.2	19.0
4 1	14 20.58	-12 41.9	1.402	2.343	10.6	19.9	4 1	14 18.96	-18 28.6	2.261	3.181	8.3	18.8
4 11	14 12.14	-12 16.1	1.365	2.351	5.8	19.6	4 11	14 11.16	-18 19.7	2.196	3.171	5.1	18.5
4 21	14 2.37	-11 43.9	1.355	2.359	0.7	19.2	4 21	14 2.30	-18 1.5	2.159	3.160	2.0	18.3
5 1	13 52.53	-11 10.7	1.370	2.368	4.5	19.6	5 1	13 53.19	-17 36.5	2.151	3.149	3.2	18.4
5 11	13 43.90	-10 42.5	1.411	2.376	9.4	19.8	5 11	13 44.71	-17 8.4	2.172	3.137	6.6	18.6
5 21	13 37.41	-10 24.1	1.476	2.384	13.7	20.1	5 21	13 37.60	-16 41.5	2.220	3.125	9.9	18.7
5 31	13 33.60	-10 18.8	1.560	2.393	17.2	20.4	5 31	13 32.40	-16 19.6	2.290	3.112	12.8	18.9
<b>430178</b>	2013 <i>TW</i> <sub>98</sub>		4 22.4 187°90'	1°5/21.1	17		<b>60128</b>	1999 <i>TS</i> <sub>254</sub>		4 22.4 274°48'	7°2/14.2	18	
3 22	14 24.32	-9 24.6	2.126	2.993	11.2	21.8	3 22	14 20.71	+10 25.2	2.382	3.247	10.2	18.7
4 1	14 18.38	-8 52.9	2.053	2.993	7.9	21.6	4 1	14 15.67	+11 31.6	2.326	3.241	8.4	18.6
4 11	14 10.77	-8 15.8	2.007	2.992	4.3	21.4	4 11	14 9.25	+12 28.9	2.295	3.235	7.3	18.5
4 21	14 2.20	-7 37.1	1.988	2.991	1.5	21.2	4 21	14 2.05	+13 11.5	2.290	3.228	7.6	18.5
5 1	13 53.52	-7 1.0	1.998	2.989	4.2	21.4	5 1	13 54.78	+13 35.2	2.311	3.222	9.1	18.6
5 11	13 45.61	-6 32.1	2.036	2.987	7.9	21.6	5 11	13 48.18	+13 37.9	2.357	3.216	11.1	18.7
5 21	13 39.16	-6 13.3	2.099	2.984	11.2	21.8	5 21	13 42.81	+13 19.8	2.425	3.210	13.1	18.8
5 31	13 34.65	-6 7.0	2.183	2.981	14.1	22.0	5 31	13 39.10	+12 42.7	2.510	3.204	15.0	19.0
<b>506818</b>	2007 <i>RS</i> <sub>292</sub>		4 22.4 243°08'	0°2/22.3	17		<b>27991</b>	Koheijimiura		4 22.4 186°30'	0°3/22.7	18	
3 22	14 22.88	-13 23.5	2.131	2.993	11.4	22.0	3 22	14 22.29	-15 10.3	2.430	3.283	10.5	19.6
4 1	14 17.43	-13 1.7	2.051	2.987	8.1	21.8	4 1	14 16.82	-14 44.0	2.352	3.283	7.5	19.4
4 11	14 10.29	-12 31.7	1.997	2.981	4.5	21.6	4 11	14 9.90	-14 8.8	2.300	3.282	4.2	19.2
4 21	14 2.15	-11 56.3	1.970	2.975	0.5	21.2	4 21	14 2.14	-13 27.6	2.277	3.281	0.7	18.9
5 1	13 53.84	-11 19.3	1.972	2.969	3.5	21.5	5 1	13 54.28	-12 43.8	2.283	3.280	3.0	19.1
5 11	13 46.24	-10 45.5	2.001	2.962	7.3	21.7	5 11	13 47.07	-12 1.9	2.317	3.278	6.4	19.3
5 21	13 40.07	-10 18.8	2.056	2.956	10.8	21.9	5 21	13 41.14	-11 25.8	2.378	3.277	9.6	19.5
5 31	13 35.84	-10 2.2	2.133	2.949	13.8	22.1	5 31	13 36.92	-10 58.5	2.462	3.274	12.3	19.7
<b>19460</b>	1998 <i>HW</i> <sub>13</sub>		4 22.4 303°09'	7°2/26.4	18		<b>496140</b>	2010 <i>RY</i> <sub>90</sub>		4 22.4 218°37'	0°1/22.5	17	
3 22	14 27.79	-28 26.4	1.699	2.514	15.9	17.8	3 22	14 26.27	-14 27.9	1.952	2.809	12.4	22.4
4 1	14 21.95	-29 26.7	1.598	2.488	13.1	17.6	4 1	14 20.03	-14 1.0	1.868	2.801	9.0	22.2
4 11	14 13.30	-30 9.1	1.518	2.462	10.0	17.3	4 11	14 11.82	-13 23.6	1.809	2.792	5.0	21.9
4 21	14 2.57	-30 29.6	1.463	2.436	7.6	17.1	4 21	14 2.39	-12 38.5	1.777	2.782	0.7	21.6
5 1	13 51.01	-30 26.8	1.433	2.410	7.5	17.0	5 1	13 52.73	-11 50.5	1.774	2.771	3.8	21.8
5 11	13 40.12	-30 3.6	1.428	2.385	10.0	17.1	5 11	13 43.87	-11 5.2	1.799	2.760	8.0	22.0
5 21	13 31.24	-29 26.8	1.446	2.360	13.5	17.2	5 21	13 36.63	-10 27.6	1.850	2.748	11.9	22.3
5 31	13 25.34	-28 45.1	1.485	2.335	17.1	17.4	5 31	13 31.62	-10 1.7	1.922	2.736	15.2	22.4
<b>504581</b>	2008 <i>TB</i> <sub>132</sub>		4 22.4 191°17'	1°7/24.0	17		<b>233538</b>	2007 <i>HJ</i> <sub>95</sub>		4 22.4 260°04'	4°7/18.3	18	
3 22	14 23.69	-19 27.2	2.291	3.131	11.5	21.8	3 22	14 23.04	-1 8.5	1.920	2.799	11.6	20.6
4 1	14 17.92	-19 9.7	2.210	3.130	8.5	21.6	4 1	14 17.65	-0 12.4	1.848	2.790	8.5	20.3
4 11	14 10.53	-18 39.9	2.154	3.129	5.2	21.4	4 11	14 10.47	+0 43.2	1.802	2.780	5.6	20.2
4 21	14 2.18	-17 59.8	2.126	3.127	2.0	21.2	4 21	14 2.22	+1 32.4	1.783	2.770	4.9	20.1
5 1	13 53.69	-17 12.9	2.127	3.124	3.1	21.2	5 1	13 53.81	+2 9.4	1.791	2.760	7.1	20.2
5 11	13 45.93	-16 24.0	2.156	3.122	6.6	21.4	5 11	13 46.18	+2 30.0	1.825	2.750	10.4	20.4
5 21	13 39.57	-15 38.0	2.212	3.118	9.8	21.6	5 21	13 40.07	+2 32.1	1.882	2.740	13.6	20.5
5 31	13 35.10	-14 59.2	2.291	3.115	12.7	21.8	5 31	13 36.02	+2 15.8	1.959	2.730	16.4	20.7
<b>431102</b>	2006 <i>EH</i> <sub>22</sub>		4 22.4 110°22'	1°5/21.1	17		<b>235967</b>	2005 <i>EK</i> <sub>221</sub>		4 22.4 267°75'	2°1/24.1	17	
3 22	14 22.99	-10 20.0	1.874	2.747	12.2	21.7	3 22	14 24.34	-19 15.7	2.173	3.015	11.9	20.3
4 1	14 17.58	-9 41.3	1.808	2.750	8.6	21.5	4 1	14 18.61	-19 20.1	2.081	3.001	8.9	20.1
4 11	14 10.39	-8 55.7	1.767	2.753	4.6	21.2	4 11	14 11.04	-19 12.9	2.013	2.987	5.5	19.8
4 21	14 2.17	-8 7.6	1.753	2.756	1.5	21.0	4 21	14 2.30	-18 55.0	1.972	2.972	2.4	19.6
5 1	13 53.88	-7 22.4	1.766	2.759	4.5	21.2	5 1	13 53.25	-18 28.9	1.960	2.957	3.5	19.7
5 11	13 46.46	-6 45.2	1.807	2.761	8.4	21.5	5 11	13 44.86	-17 58.8	1.976	2.942	7.0	19.8
5 21	13 40.65	-6 19.9	1.871	2.764	12.0	21.7	5 21	13 37.91	-17 29.3	2.018	2.927	10.5	20.0
5 31	13 36.93	-6 8.6	1.957	2.767	15.1	21.9	5 31	13 33.00	-17 4.8	2.082	2.912	13.6	20.2
<b>107036</b>	2000 <i>YW</i> <sub>126</sub>		4 22.4 73°27'	3°9/19.9	18		<b>249467</b>	2009 <i>HS</i> <sub>105</sub>		4 22.4 306°15'	1°0/23.3	17	
3 22	14 26.64	-4 40.5	1.434	2.319	14.4	19.2	3 22	14 20.35	-17 23.0	2.112	2.969	11.7	20.4
4 1	14 20.48	-4 3.3	1.382	2.328	10.3	19.0	4 1	14 15.73	-16 55.0	2.026	2.956	8.5	20.2
4 11	14 12.05	-3 24.7	1.353	2.338	6.0	18.8	4 11	14 9.43	-16 14.8	1.963	2.944	5.0	19.9
4 21	14 2.38	-2 50.8	1.350	2.348	3.9	18.7	4 21	14 2.09	-15 25.2	1.928	2.931	1.3	19.6
5 1	13 52.72	-2 27.7	1.373	2.358	6.8	18.9	5 1	13 54.56	-14 30.3	1.921	2.919	3.2	19.8
5 11	13 44.30	-2 19.7	1.421	2.367	11.0	19.1	5 11	13 47.71	-13 35.7	1.941	2.908	7.1	20.0
5 21	13 37.99	-2 28.8	1.491	2.377	14.9	19.4	5 21	13 42.24	-12 46.6	1.987	2.896	10.6	20.2
5 31	13 34.32	-2 54.9	1.579	2.387	18.1	19.6	5 31	13 38.70	-12 7.4	2.054	2.885	13.7	20.4
<b>110537</b>	2001 <i>TT</i> <sub>93</sub>		4 22.4 2°58'	1°9/23.9	18		<b>34684</b>	2009 <i>DP</i> <sub>95</sub>		4 22.4 333°45'	3°8/25.4	17	
3 22	14 21.47	-19 31.7	1.405	2.273	15.7	18.5	3 22	14 24.75	-23 28.9	2.068	2.897	13.0	20.4
4 1	14 17.09	-19 3.1	1.338	2.272	11.7	18.2	4 1	14 18.95	-23 49.1	1.989	2.896	10.0	20.2
4 11	14 10.34	-18 15.3	1.292	2.272	7.0	18.0	4 11	14 11.23	-23 54.8	1.932	2.894	6.8	20.0
4 21	14 2.18	-17 11.8	1.270	2.272	2.5	17.7	4 21	14 2.33	-23 45.9	1.902	2.893	4.1	19.9
5 1	13 53.86	-15 59.4	1.274	2.273	4.2	17.8	5 1	13 53.20	-23 24.3	1.900	2.892	4.4	19.9
5 11	13 46.66	-14 47.0	1.302	2.275	9.0	18.1	5 11	13 44.85	-22 54.3	1.925	2.890	7.2	20.1
5 21	13 41.54	-13 42.9	1.353	2.277	13.5	18.3	5 21	13 38.11	-22 21.1	1.975	2.889	10.4	20.2
5 31	13 39.10	-12 53.5	1.424	2.280	17.4	18.6	5 31	13 33.54	-21 50.2	2.048	2.888	13.4	20.4
<b>497579</b>	2006 <i>GP</i> <sub>8</sub>		4 22.4 19°47'	3°1/20.6	17		<b>353402</b>	2011 <i>PS</i> <sub>10</sub>		4 22.4 181°71'	0°9/23.2	18	

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>37848</b>	1998 <i>DB</i> <sub>14</sub>		4 22.4 314°02	2°4/23.7	18		<b>176397</b>	2001 <i>UK</i> <sub>132</sub>		4 22.4 293°38	6°3/17.1	18	
3 22	14 27.60	-17 2.3	1.641	2.498	14.4	18.7	3 22	14 24.89	+ 7 11.6	2.208	3.074	10.9	19.8
4 1	14 21.47	-17 37.6	1.556	2.485	10.7	18.4	4 1	14 18.68	+ 7 43.7	2.149	3.073	8.5	19.7
4 11	14 12.84	-18 2.7	1.495	2.473	6.6	18.1	4 11	14 10.93	+ 8 7.4	2.115	3.072	6.7	19.6
4 21	14 2.56	-18 17.3	1.460	2.461	2.7	17.9	4 21	14 2.31	+ 8 18.1	2.108	3.071	6.5	19.6
5 1	13 51.80	-18 22.9	1.451	2.449	4.3	17.9	5 1	13 53.65	+ 8 12.3	2.129	3.070	8.1	19.6
5 11	13 41.90	-18 23.1	1.469	2.438	8.7	18.2	5 11	13 45.78	+ 7 48.6	2.175	3.069	10.4	19.8
5 21	13 33.95	-18 22.5	1.511	2.427	13.0	18.4	5 21	13 39.33	+ 7 7.7	2.245	3.068	12.9	19.9
5 31	13 28.71	-18 25.9	1.574	2.416	16.7	18.6	5 31	13 34.75	+ 6 11.3	2.334	3.067	15.0	20.1
<b>466509</b>	2014 <i>OP</i> <sub>28</sub>		4 22.4 140°63	2°1/20.7	18		<b>498649</b>	2008 <i>SC</i> <sub>81</sub>		4 22.4 191°79	2°6/20.1	17	
3 22	14 27.67	- 8 36.0	1.860	2.728	12.5	22.7	3 22	14 23.39	- 6 23.6	2.124	2.997	10.9	21.8
4 1	14 20.81	- 7 52.5	1.802	2.741	8.8	22.5	4 1	14 17.73	- 5 43.6	2.055	2.996	7.7	21.6
4 11	14 12.12	- 7 3.8	1.769	2.754	4.8	22.2	4 11	14 10.46	- 5 0.5	2.011	2.995	4.4	21.4
4 21	14 2.43	- 6 14.7	1.765	2.766	2.1	22.1	4 21	14 2.25	- 4 18.7	1.994	2.993	2.6	21.3
5 1	13 52.77	- 5 30.7	1.789	2.778	5.0	22.3	5 1	13 53.96	- 3 42.7	2.007	2.992	5.0	21.4
5 11	13 44.13	- 4 56.7	1.840	2.788	8.8	22.6	5 11	13 46.41	- 3 16.7	2.047	2.990	8.4	21.6
5 21	13 37.25	- 4 35.9	1.917	2.798	12.3	22.8	5 21	13 40.28	- 3 3.4	2.111	2.987	11.6	21.8
5 31	13 32.60	- 4 29.9	2.014	2.807	15.3	23.0	5 31	13 36.05	- 3 4.0	2.197	2.985	14.3	22.0
<b>280336</b>	2003 <i>SV</i> <sub>129</sub>		4 22.4 240°77	0°8/21.8	18		<b>72397</b>	2001 <i>CV</i> <sub>21</sub>		4 22.4 21°80	0°3/22.5	18	
3 22	14 24.76	-10 58.2	2.248	3.110	10.9	20.9	3 22	14 24.30	-13 37.5	1.120	2.009	17.2	18.5
4 1	14 18.76	-10 42.3	2.161	3.097	7.8	20.7	4 1	14 19.40	-13 34.8	1.069	2.016	12.4	18.2
4 11	14 11.07	-10 20.5	2.100	3.084	4.2	20.4	4 11	14 11.72	-13 19.5	1.037	2.024	6.9	17.9
4 21	14 2.32	- 9 55.4	2.067	3.071	0.8	20.1	4 21	14 2.42	-12 55.6	1.029	2.034	1.0	17.6
5 1	13 53.35	- 9 30.5	2.063	3.058	3.7	20.3	5 1	13 53.04	-12 28.9	1.044	2.044	5.0	17.9
5 11	13 45.02	- 9 9.7	2.088	3.044	7.4	20.6	5 11	13 45.11	-12 6.5	1.083	2.055	10.5	18.2
5 21	13 38.06	- 8 56.2	2.138	3.029	10.8	20.7	5 21	13 39.71	-11 54.2	1.142	2.067	15.4	18.5
5 31	13 33.00	- 8 52.6	2.211	3.014	13.7	20.9	5 31	13 37.42	-11 55.7	1.220	2.081	19.4	18.8
<b>110032</b>	2001 <i>SD</i> <sub>76</sub>		4 22.4 101°68	0°1/22.5	18		<b>441269</b>	2007 <i>VB</i> <sub>330</sub>		4 22.4 21°10	7°7/16.3	17	
3 22	14 26.95	-13 48.9	1.921	2.779	12.6	19.9	3 22	14 23.43	+ 8 37.0	1.841	2.714	12.3	20.1
4 1	14 20.26	-13 31.6	1.867	2.800	8.9	19.7	4 1	14 17.82	+ 9 22.2	1.794	2.719	9.8	20.0
4 11	14 11.79	-13 5.5	1.838	2.821	4.9	19.5	4 11	14 10.50	+ 9 56.3	1.771	2.725	8.0	19.9
4 21	14 2.40	-12 33.7	1.836	2.841	0.6	19.2	4 21	14 2.26	+10 13.5	1.774	2.731	8.0	19.9
5 1	13 53.07	-12 0.5	1.863	2.860	3.6	19.5	5 1	13 54.04	+10 9.7	1.802	2.738	9.6	20.0
5 11	13 44.76	-11 30.5	1.918	2.879	7.6	19.8	5 11	13 46.77	+ 9 43.6	1.854	2.745	12.1	20.2
5 21	13 38.17	-11 7.8	1.998	2.898	11.1	20.0	5 21	13 41.14	+ 8 56.7	1.928	2.753	14.6	20.3
5 31	13 33.75	-10 55.1	2.101	2.916	14.0	20.2	5 31	13 37.59	+ 7 51.8	2.020	2.761	16.9	20.5
<b>384264</b>	2009 <i>FW</i> <sub>32</sub>		4 22.4 20°45	12°1/18.9	14 C		<b>166743</b>	2002 <i>TQ</i> <sub>297</sub>		4 22.4 159°45	0°3/22.7	18	
3 22	14 34.42	+18 6.2	1.341	2.193	17.4	19.6	3 22	14 22.29	-15 4.0	2.228	3.085	11.1	20.6
4 1	14 25.81	+17 54.1	1.309	2.210	14.7	19.4	4 1	14 16.93	-14 36.9	2.155	3.088	8.0	20.4
4 11	14 14.82	+17 14.7	1.298	2.228	12.6	19.4	4 11	14 10.02	-14 0.6	2.107	3.090	4.4	20.2
4 21	14 2.76	+16 3.4	1.311	2.248	12.1	19.4	4 21	14 2.21	-13 17.9	2.087	3.092	0.7	19.9
5 1	13 51.16	+14 20.4	1.347	2.270	13.3	19.5	5 1	13 54.31	-12 32.8	2.096	3.093	3.2	20.1
5 11	13 41.34	+12 11.1	1.407	2.292	15.6	19.7	5 11	13 47.14	-11 50.1	2.132	3.095	6.8	20.3
5 21	13 34.11	+ 9 43.7	1.489	2.316	18.1	19.9	5 21	13 41.35	-11 13.9	2.195	3.096	10.1	20.5
5 31	13 29.85	+ 7 5.9	1.590	2.342	20.3	20.2	5 31	13 37.39	-10 47.4	2.280	3.097	13.0	20.7
<b>46172</b>	2001 <i>FB</i> <sub>92</sub>		4 22.4 294°18	4°5/19.5	18		<b>303276</b>	2004 <i>RA</i> <sub>189</sub>		4 22.4 196°75	4°0/25.3	18	
3 22	14 25.45	- 3 31.6	1.475	2.361	14.0	18.6	3 22	14 28.15	-23 49.1	1.693	2.527	15.2	20.8
4 1	14 20.00	- 2 50.6	1.393	2.340	10.2	18.3	4 1	14 21.73	-23 51.5	1.614	2.525	11.7	20.6
4 11	14 12.06	- 2 7.7	1.335	2.318	6.3	18.0	4 11	14 12.91	-23 34.7	1.558	2.522	7.8	20.3
4 21	14 2.48	- 1 29.2	1.302	2.297	4.6	17.9	4 21	14 2.59	-22 59.1	1.526	2.520	4.5	20.1
5 1	13 52.45	- 1 2.1	1.294	2.276	7.6	18.0	5 1	13 52.00	-22 8.0	1.522	2.516	4.8	20.1
5 11	13 43.32	- 0 52.0	1.311	2.255	12.0	18.2	5 11	13 42.44	-21 8.2	1.545	2.512	8.4	20.3
5 21	13 36.15	- 1 1.9	1.349	2.234	16.3	18.4	5 21	13 34.92	-20 7.6	1.592	2.508	12.4	20.5
5 31	13 31.70	- 1 32.3	1.406	2.213	20.0	18.6	5 31	13 30.09	-19 13.5	1.660	2.503	15.9	20.8
<b>198084</b>	2004 <i>SG</i> <sub>21</sub>		4 22.4 137°11	8°0/12.3	17		<b>480491</b>	2015 <i>LG</i> <sub>31</sub>		4 22.4 334°44	7°9/29.9	17	
3 22	14 23.03	+14 6.0	2.540	3.389	10.2	20.7	3 22	14 21.39	-35 48.0	1.954	2.730	15.5	20.5
4 1	14 17.15	+15 39.4	2.509	3.404	8.7	20.7	4 1	14 16.93	-36 8.3	1.864	2.719	13.2	20.3
4 11	14 9.99	+17 0.6	2.504	3.419	8.0	20.6	4 11	14 10.29	-36 3.9	1.794	2.708	10.7	20.1
4 21	14 2.18	+18 3.8	2.526	3.433	8.4	20.7	4 21	14 2.26	-35 32.7	1.747	2.697	8.6	20.0
5 1	13 54.43	+18 45.2	2.574	3.447	9.7	20.8	5 1	13 53.92	-34 35.9	1.724	2.687	7.9	19.9
5 11	13 47.43	+19 3.3	2.646	3.459	11.4	20.9	5 11	13 46.45	-33 18.6	1.727	2.678	9.1	19.9
5 21	13 41.69	+18 59.1	2.738	3.471	13.0	21.1	5 21	13 40.78	-31 49.0	1.753	2.669	11.4	20.1
5 31	13 37.58	+18 34.8	2.848	3.482	14.4	21.2	5 31	13 37.57	-30 16.0	1.802	2.661	14.1	20.2
<b>181063</b>	2005 <i>QP</i> <sub>4</sub>		4 22.4 220°69	5°0/16.3	18		<b>87633</b>	2000 <i>RM</i> <sub>64</sub>		4 22.4 332°10	5°3/26.7	18	
3 22	14 19.57	+ 2 10.9	2.506	3.381	9.4	20.7	3 22	14 21.61	-27 23.2	1.504	2.340	16.6	18.3
4 1	14 14.82	+ 3 28.8	2.442	3.377	7.0	20.5	4 1	14 17.33	-27 15.8	1.423	2.331	13.2	18.1
4 11	14 8.80	+ 4 44.2	2.405	3.372	5.3	20.4	4 11	14 10.60	-26 42.8	1.363	2.322	9.4	17.8
4 21	14 2.04	+ 5 51.7	2.396	3.367	5.2	20.4	4 21	14 2.30	-25 44.7	1.326	2.314	6.0	17.6
5 1	13 55.21	+ 6 46.2	2.415	3.362	7.0	20.5	5 1	13 53.71	-24 25.5	1.314	2.307	5.7	17.6
5 11	13 48.98	+ 7 24.4	2.461	3.357	9.3	20.6	5 11	13 46.16	-22 54.0	1.327	2.300	9.0	17.7
5 21	13 43.88	+ 7 44.5	2.530	3.351	11.7	20.8	5 21	13 40.71	-21 20.7	1.364	2.293	13.0	17.9
5 31	13 40.31	+ 7 46.8	2.619	3.345	13.7	20.9	5 31	13 38.01	-19 55.3	1.421	2.287	16.8	18.2
<b>391611</b>	2007 <i>UL</i> <sub>140</sub>												

EPHEMERIDES

4 22.4

4 22.4

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>13827</b>	1999 <i>WK</i> <sub>4</sub>	4 22.4 245°29		2°1/20.8 18			<b>306143</b>	2010 <i>KK</i> <sub>17</sub>	4 22.4 311°78		4°4/27.2 18		
3 22	14 25.11	- 9 2.4	1.675	2.551	13.2	18.2	3 22	14 20.98	-28 56.0	2.294	3.099	12.6	20.2
4 1	14 19.40	- 8 23.0	1.600	2.543	9.4	18.0	4 1	14 16.14	-28 37.5	2.209	3.096	10.1	20.0
4 11	14 11.57	- 7 36.6	1.549	2.535	5.1	17.7	4 11	14 9.65	-28 0.0	2.146	3.093	7.3	19.8
4 21	14 2.42	- 6 48.3	1.524	2.526	2.1	17.5	4 21	14 2.19	-27 4.3	2.110	3.090	4.9	19.7
5 1	13 53.05	- 6 3.9	1.527	2.518	5.3	17.7	5 1	13 54.61	-25 53.6	2.101	3.087	4.6	19.7
5 11	13 44.59	- 5 29.5	1.556	2.509	9.7	17.9	5 11	13 47.78	-24 33.8	2.119	3.085	6.7	19.8
5 21	13 37.93	- 5 9.2	1.608	2.500	13.7	18.1	5 21	13 42.39	-23 11.3	2.165	3.082	9.5	19.9
5 31	13 33.68	- 5 5.3	1.680	2.490	17.1	18.3	5 31	13 38.91	-21 52.8	2.234	3.079	12.2	20.1
<b>156210</b>	2001 <i>UH</i> <sub>57</sub>	4 22.4 240°10		1°0/24.0 18			<b>195235</b>	2002 <i>EU</i> <sub>12</sub>	4 22.4 22°62		5°5/25.3 17		
3 22	14 16.69	-18 6.3	4.585	5.417	6.3	20.4	3 22	14 30.55	-23 34.0	1.590	2.424	15.9	19.5
4 1	14 12.40	-18 5.6	4.496	5.413	4.6	20.2	4 1	14 23.66	-24 43.4	1.520	2.428	12.5	19.3
4 11	14 7.36	-17 59.6	4.435	5.408	2.8	20.1	4 11	14 14.08	-25 37.1	1.473	2.432	8.8	19.1
4 21	14 1.88	-17 49.3	4.403	5.404	1.1	19.9	4 21	14 2.78	-26 12.0	1.451	2.437	5.9	18.9
5 1	13 56.33	-17 36.0	4.402	5.399	1.7	20.0	5 1	13 51.10	-26 27.8	1.456	2.443	6.2	18.9
5 11	13 51.08	-17 21.3	4.431	5.394	3.6	20.1	5 11	13 40.53	-26 28.3	1.486	2.449	9.2	19.1
5 21	13 46.45	-17 7.0	4.488	5.389	5.4	20.3	5 21	13 32.18	-26 19.5	1.541	2.455	12.8	19.3
5 31	13 42.70	-16 54.8	4.570	5.384	7.0	20.4	5 31	13 26.81	-26 8.3	1.616	2.462	16.1	19.6
<b>431956</b>	2008 <i>UB</i> <sub>75</sub>	4 22.4 239°50		0°7/22.9 18			<b>35335</b>	1997 <i>FU</i> <sub>1</sub>	4 22.4 215°85		5°4/16.6 18		
3 22	14 24.08	-15 28.8	2.074	2.930	11.9	21.5	3 22	14 21.79	+ 5 39.3	2.624	3.491	9.3	19.0
4 1	14 18.40	-15 16.9	1.993	2.924	8.6	21.3	4 1	14 16.35	+ 6 24.9	2.561	3.487	7.2	18.9
4 11	14 10.92	-14 55.1	1.936	2.917	4.9	21.1	4 11	14 9.63	+ 7 4.8	2.524	3.483	5.6	18.8
4 21	14 2.34	-14 25.7	1.906	2.910	1.0	20.8	4 21	14 2.19	+ 7 34.8	2.514	3.478	5.5	18.8
5 1	13 53.57	-13 52.3	1.905	2.903	3.4	20.9	5 1	13 54.69	+ 7 51.4	2.533	3.473	7.0	18.8
5 11	13 45.53	-13 19.6	1.932	2.896	7.3	21.2	5 11	13 47.79	+ 7 52.4	2.578	3.468	9.2	19.0
5 21	13 38.99	-12 51.9	1.984	2.889	10.9	21.4	5 21	13 42.03	+ 7 37.5	2.647	3.463	11.4	19.1
5 31	13 34.50	-12 32.9	2.059	2.882	14.0	21.6	5 31	13 37.81	+ 7 7.4	2.736	3.457	13.3	19.3
<b>185499</b>	2007 <i>TV</i> <sub>40</sub>	4 22.4 184°86		0°4/22.0 18			<b>88739</b>	2001 <i>SR</i> <sub>44</sub>	4 22.4 305°21		3°0/20.6 17		
3 22	14 22.03	-13 3.7	2.419	3.279	10.3	21.3	3 22	14 23.88	- 8 44.1	1.205	2.099	15.9	19.0
4 1	14 16.65	-12 30.4	2.344	3.279	7.3	21.1	4 1	14 19.30	- 7 57.8	1.128	2.080	11.4	18.7
4 11	14 9.83	-11 49.6	2.294	3.278	4.0	20.8	4 11	14 11.87	- 7 1.5	1.073	2.061	6.4	18.3
4 21	14 2.20	-11 4.4	2.273	3.278	0.5	20.6	4 21	14 2.52	- 6 2.0	1.040	2.042	3.0	18.0
5 1	13 54.48	-10 18.7	2.281	3.277	3.3	20.8	5 1	13 52.66	- 5 8.1	1.032	2.024	7.0	18.2
5 11	13 47.41	- 9 37.0	2.318	3.275	6.7	21.0	5 11	13 43.86	- 4 28.8	1.047	2.006	12.5	18.5
5 21	13 41.60	- 9 2.7	2.380	3.274	9.8	21.2	5 21	13 37.39	- 4 9.9	1.082	1.989	17.6	18.7
5 31	13 37.48	- 8 38.7	2.466	3.272	12.4	21.4	5 31	13 34.05	- 4 14.1	1.133	1.973	21.9	18.9
<b>70592</b>	1999 <i>TD</i> <sub>177</sub>	4 22.4 160°49		0°1/22.3 18			<b>62612</b>	2000 <i>SQ</i> <sub>335</sub>	4 22.4 323°40		4°3/26.6 18		
3 22	14 24.23	-13 26.1	2.139	2.998	11.4	19.9	3 22	14 22.30	-27 11.4	2.228	3.041	12.7	19.3
4 1	14 18.35	-13 6.0	2.067	3.002	8.2	19.7	4 1	14 17.14	-27 12.5	2.146	3.039	10.0	19.1
4 11	14 10.82	-12 37.8	2.021	3.005	4.5	19.5	4 11	14 10.23	-26 56.4	2.086	3.037	7.2	18.9
4 21	14 2.33	-12 4.3	2.003	3.008	0.5	19.2	4 21	14 2.28	-26 23.5	2.053	3.036	4.8	18.8
5 1	13 53.74	-11 29.6	2.014	3.010	3.4	19.4	5 1	13 54.16	-25 36.2	2.047	3.034	4.6	18.8
5 11	13 45.94	-10 57.9	2.052	3.013	7.2	19.7	5 11	13 46.80	-24 39.7	2.068	3.033	6.9	18.9
5 21	13 39.60	-10 33.1	2.116	3.015	10.6	19.9	5 21	13 40.91	-23 39.7	2.115	3.031	9.8	19.1
5 31	13 35.22	-10 18.1	2.203	3.016	13.5	20.1	5 31	13 37.03	-22 42.3	2.185	3.030	12.5	19.2
<b>457618</b>	2009 <i>BJ</i> <sub>89</sub>	4 22.4 125°93		2°1/20.8 18			<b>359058</b>	2008 <i>YY</i> <sub>37</sub>	4 22.4 296°47		5°1/18.9 17		
3 22	14 27.18	- 9 28.0	1.670	2.542	13.4	22.2	3 22	14 24.13	- 3 46.5	1.325	2.218	14.8	20.5
4 1	14 20.63	- 8 36.6	1.615	2.557	9.4	22.0	4 1	14 19.16	- 2 41.2	1.254	2.204	10.7	20.2
4 11	14 12.08	- 7 38.5	1.586	2.571	5.1	21.8	4 11	14 11.63	- 1 32.2	1.206	2.190	6.7	19.9
4 21	14 2.48	- 6 39.4	1.583	2.585	2.1	21.6	4 21	14 2.48	- 0 27.9	1.182	2.176	5.3	19.8
5 1	13 52.93	- 5 45.6	1.608	2.598	5.2	21.8	5 1	13 53.00	+ 0 22.5	1.183	2.163	8.5	19.9
5 11	13 44.50	- 5 3.2	1.660	2.610	9.4	22.1	5 11	13 44.58	+ 0 52.0	1.208	2.150	13.0	20.1
5 21	13 37.98	- 4 35.8	1.735	2.622	13.1	22.4	5 21	13 38.29	+ 0 57.1	1.252	2.137	17.3	20.3
5 31	13 33.84	- 4 25.2	1.831	2.633	16.2	22.6	5 31	13 34.83	+ 0 37.6	1.314	2.124	21.0	20.6
<b>504202</b>	2006 <i>TB</i> <sub>125</sub>	4 22.4 135°26		1°6/24.2 17			<b>56339</b>	1999 <i>XV</i> <sub>169</sub>	4 22.4 183°17		1°5/21.3 18		
3 22	14 22.05	-19 43.9	2.705	3.540	10.1	22.6	3 22	14 29.11	-10 12.0	1.689	2.557	13.5	19.8
4 1	14 16.53	-19 27.3	2.633	3.550	7.4	22.4	4 1	14 22.19	- 9 40.0	1.619	2.558	9.6	19.5
4 11	14 9.72	-19 0.4	2.587	3.559	4.5	22.2	4 11	14 13.07	- 9 0.6	1.574	2.559	5.2	19.3
4 21	14 2.19	-18 24.9	2.569	3.569	1.9	22.0	4 21	14 2.65	- 8 18.1	1.555	2.558	1.5	19.0
5 1	13 54.61	-17 43.8	2.580	3.578	2.7	22.1	5 1	13 52.07	- 7 37.9	1.564	2.557	4.9	19.2
5 11	13 47.68	-17 1.0	2.621	3.586	5.6	22.3	5 11	13 42.52	- 7 5.9	1.601	2.555	9.4	19.5
5 21	13 41.93	-16 20.4	2.689	3.595	8.3	22.5	5 21	13 34.91	- 6 46.0	1.661	2.552	13.4	19.7
5 31	13 37.77	-15 45.4	2.781	3.603	10.8	22.7	5 31	13 29.81	- 6 40.9	1.743	2.548	16.8	19.9
<b>430781</b>	2004 <i>TA</i> <sub>105</sub>	4 22.4 123°68		0°6/21.8 17			<b>36392</b>	2000 <i>OZ</i> <sub>40</sub>	4 22.4 94°25		2°9/25.6 18		
3 22	14 22.47	-14 10.6	2.068	2.930	11.7	21.2	3 22	14 22.74	-24 6.2	2.421	3.243	11.5	18.4
4 1	14 17.05	-13 5.9	2.005	2.942	8.2	21.0	4 1	14 17.13	-23 48.7	2.357	3.262	8.8	18.2
4 11	14 10.06	-11 51.0	1.968	2.953	4.4	20.8	4 11	14 10.08	-23 16.9	2.318	3.280	5.8	18.1
4 21	14 2.23	-10 30.7	1.959	2.963	0.7	20.5	4 21	14 2.26	-22 32.5	2.306	3.299	3.3	17.9
5 1	13 54.42	- 9 11.3	1.979	2.974	3.8	20.8	5 1	13 54.46	-21 38.9	2.323	3.317	3.4	18.0
5 11	13 47.45	- 7 59.0	2.027	2.984	7.6	21.1	5 11	13 47.45	-20 41.1	2.368	3.335	6.0	18.2
5 21	13 41.97	- 6 58.7	2.101	2.993	10.9	21.3	5 21	13 41.81	-19 44.1	2.440	3.352	8.8	18.4
5 31	13 38.39	- 6 13.6	2.197	3.003	13.8	21.5	5 31	13 37.97	-18 52.6	2.536	3.369	11.3	18.6
<b>409357</b>	2004 <i>YK</i> <sub>23</sub>	4 22.4 9°57		4°1/25.1 17			<b>57891</b>	2002 <i>CJ</i> <sub>35</sub>	4 22.4 182°40		7°3/29.2 18		
3 22	14 24.25	-22 40.4											

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4 22.4

4 22.5

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>39354</b>	2002 AX <sub>148</sub>		4 22.4 328°04	3°4/24.1	18	R	<b>347772</b>	2002 CS <sub>179</sub>		4 22.4 153°07	3°6/26.3	18	
3 22	14 23.49	-18 45.5	1.139	2.017	17.8	17.5	3 22	14 23.06	-26 17.6	2.646	3.453	11.1	21.4
4 1	14 19.38	-19 13.2	1.059	1.997	13.5	17.2	4 1	14 17.42	-26 20.2	2.566	3.458	8.7	21.2
4 11	14 12.11	-19 24.3	0.998	1.978	8.5	16.9	4 11	14 10.31	-26 8.7	2.511	3.462	6.1	21.1
4 21	14 2.60	-19 18.1	0.959	1.960	3.9	16.5	4 21	14 2.35	-25 43.6	2.483	3.466	4.0	20.9
5 1	13 52.36	-18 57.5	0.944	1.943	5.5	16.6	5 1	13 54.27	-25 7.0	2.483	3.470	3.9	20.9
5 11	13 43.19	-18 29.2	0.950	1.927	10.9	16.8	5 11	13 46.86	-24 22.8	2.512	3.474	6.0	21.1
5 21	13 36.57	-18 1.6	0.977	1.913	16.3	17.0	5 21	13 40.72	-23 35.7	2.567	3.477	8.5	21.2
5 31	13 33.46	-17 42.5	1.022	1.899	21.0	17.3	5 31	13 36.30	-22 50.3	2.647	3.480	10.9	21.4
<b>267013</b>	1995 SW <sub>14</sub>		4 22.4 250°26	4°3/18.1	18		<b>354</b>	Eleonora		4 22.4 50°04	9°8/12.7	18	A
3 22	14 21.38	- 4 3.0	1.932	2.814	11.4	20.6	3 22	14 21.45	+11 35.3	1.713	2.587	13.0	10.2
4 1	14 16.50	- 2 34.4	1.860	2.804	8.2	20.4	4 1	14 16.54	+13 23.3	1.680	2.597	10.9	10.1
4 11	14 9.89	- 1 2.2	1.814	2.795	5.2	20.2	4 11	14 9.87	+14 56.9	1.671	2.607	9.9	10.1
4 21	14 2.27	+ 0 26.8	1.796	2.786	4.4	20.1	4 21	14 2.28	+16 7.5	1.687	2.617	10.4	10.2
5 1	13 54.50	+ 1 44.8	1.805	2.776	6.9	20.2	5 1	13 54.75	+16 49.0	1.726	2.628	12.2	10.3
5 11	13 47.49	+ 2 45.8	1.841	2.766	10.3	20.4	5 11	13 48.22	+16 59.6	1.788	2.638	14.4	10.4
5 21	13 41.95	+ 3 26.3	1.900	2.756	13.6	20.6	5 21	13 43.37	+16 41.1	1.868	2.649	16.6	10.6
5 31	13 38.39	+ 3 45.3	1.978	2.745	16.3	20.8	5 31	13 40.64	+15 57.4	1.963	2.660	18.6	10.7
<b>186115</b>	2001 TL <sub>113</sub>		4 22.4 336°04	1°4/23.7	17		<b>259524</b>	2003 UQ <sub>29</sub>		4 22.4 187°08	0°4/22.1	16	
3 22	14 19.20	-20 39.2	1.389	2.257	15.9	18.9	3 22	14 28.35	-12 14.4	1.986	2.844	12.2	21.3
4 1	14 15.59	-19 31.9	1.312	2.247	11.8	18.7	4 1	14 21.46	-11 59.5	1.910	2.844	8.8	21.1
4 11	14 9.64	-17 59.9	1.257	2.238	7.0	18.4	4 11	14 12.63	-11 37.1	1.860	2.843	4.8	20.8
4 21	14 2.25	-16 8.6	1.226	2.230	2.1	18.0	4 21	14 2.65	-11 9.7	1.837	2.842	0.6	20.5
5 1	13 54.64	-14 7.3	1.222	2.222	4.3	18.1	5 1	13 52.51	-10 41.5	1.843	2.839	3.9	20.8
5 11	13 48.10	-12 8.5	1.243	2.215	9.4	18.4	5 11	13 43.22	-10 16.9	1.878	2.836	7.9	21.0
5 21	13 43.57	-10 23.0	1.286	2.209	14.2	18.7	5 21	13 35.59	- 9 59.7	1.939	2.832	11.6	21.2
5 31	13 41.68	- 8 58.8	1.350	2.203	18.3	18.9	5 31	13 30.18	- 9 52.8	2.021	2.828	14.7	21.4
<b>350190</b>	2011 UE <sub>397</sub>		4 22.4 81°63	2°4/20.3	17		<b>367896</b>	2012 AH <sub>14</sub>		4 22.4 281°09	1°5/23.5	17	
3 22	14 22.73	- 5 27.7	2.290	3.161	10.3	20.8	3 22	14 24.89	-17 55.0	1.535	2.398	14.9	20.9
4 1	14 17.16	- 5 4.4	2.225	3.166	7.3	20.6	4 1	14 19.54	-17 38.5	1.457	2.390	11.0	20.6
4 11	14 10.14	- 4 39.7	2.187	3.170	4.2	20.4	4 11	14 11.80	-17 6.2	1.403	2.383	6.5	20.3
4 21	14 2.30	- 4 17.1	2.176	3.175	2.4	20.3	4 21	14 2.56	-16 20.7	1.373	2.376	2.0	20.0
5 1	13 54.41	- 4 0.1	2.194	3.179	4.6	20.4	5 1	13 53.02	-15 27.1	1.369	2.368	4.1	20.1
5 11	13 47.23	- 3 51.7	2.240	3.184	7.7	20.6	5 11	13 44.49	-14 32.8	1.392	2.361	8.9	20.4
5 21	13 41.37	- 3 53.7	2.311	3.188	10.7	20.8	5 21	13 37.97	-13 44.9	1.437	2.354	13.4	20.6
5 31	13 37.26	- 4 7.1	2.404	3.193	13.2	21.0	5 31	13 34.11	-13 9.2	1.503	2.347	17.2	20.8
<b>477159</b>	2009 DO <sub>133</sub>		4 22.4 357°55	2°9/19.7	17		<b>250429</b>	2003 WG <sub>92</sub>		4 22.4 209°55	3°4/19.5	16	
3 22	14 19.95	- 6 58.8	1.904	2.785	11.6	21.1	3 22	14 25.80	- 4 59.6	2.016	2.888	11.5	21.4
4 1	14 15.46	- 6 0.0	1.838	2.784	8.2	20.9	4 1	14 19.60	- 4 4.1	1.941	2.881	8.2	21.2
4 11	14 9.31	- 4 56.7	1.798	2.783	4.6	20.7	4 11	14 11.60	- 3 5.6	1.892	2.874	4.9	21.0
4 21	14 2.20	- 3 54.4	1.784	2.783	2.9	20.6	4 21	14 2.53	- 2 9.3	1.870	2.866	3.4	20.9
5 1	13 55.01	- 2 59.2	1.798	2.782	5.5	20.7	5 1	13 53.30	- 1 20.9	1.878	2.857	5.9	21.0
5 11	13 48.61	- 2 16.5	1.838	2.782	9.1	21.0	5 11	13 44.85	- 0 45.5	1.912	2.847	9.4	21.2
5 21	13 43.68	- 1 49.4	1.901	2.783	12.4	21.2	5 21	13 37.93	- 0 25.8	1.971	2.836	12.8	21.4
5 31	13 40.70	- 1 39.5	1.985	2.783	15.3	21.4	5 31	13 33.07	- 0 23.1	2.051	2.825	15.6	21.6
<b>118401</b>	LINEAR		4 22.4 196°39	0°1/22.5	18		<b>72177</b>	2000 YR <sub>110</sub>		4 22.4 137°06	1°1/21.6	18	
3 22	14 20.95	-14 15.7	2.950	3.801	8.9	21.1	3 22	14 27.45	-11 7.0	1.772	2.639	13.1	20.1
4 1	14 15.72	-13 50.0	2.868	3.798	6.4	20.9	4 1	14 20.85	-10 36.0	1.711	2.650	9.2	19.9
4 11	14 9.31	-13 17.5	2.813	3.795	3.5	20.7	4 11	14 12.27	- 9 57.5	1.675	2.660	5.0	19.7
4 21	14 2.21	-12 40.5	2.787	3.792	0.5	20.4	4 21	14 2.61	- 9 15.5	1.666	2.670	1.2	19.4
5 1	13 55.02	-12 2.0	2.791	3.788	2.6	20.6	5 1	13 52.93	- 8 35.4	1.685	2.679	4.4	19.7
5 11	13 48.34	-11 25.3	2.824	3.783	5.6	20.8	5 11	13 44.28	- 8 2.4	1.732	2.688	8.6	19.9
5 21	13 42.69	-10 53.5	2.885	3.779	8.2	21.0	5 21	13 37.46	- 7 40.3	1.803	2.696	12.4	20.2
5 31	13 38.44	-10 29.1	2.969	3.774	10.6	21.1	5 31	13 32.96	- 7 31.6	1.895	2.704	15.5	20.4
<b>141175</b>	2001 XT <sub>151</sub>		4 22.4 165°87	1°1/23.6	18		<b>154020</b>	2002 CA <sub>10</sub>		4 22.4 242°31	8°4/16.3	18	
3 22	14 21.63	-18 7.8	2.721	3.562	9.8	21.2	3 22	14 40.02	+ 1 38.7	1.465	2.328	15.5	22.6
4 1	14 16.28	-17 43.7	2.643	3.565	7.2	21.0	4 1	14 30.90	+ 3 47.5	1.371	2.300	11.9	22.3
4 11	14 9.63	-17 9.9	2.592	3.569	4.2	20.8	4 11	14 18.41	+ 6 1.8	1.303	2.268	9.0	22.1
4 21	14 2.25	-16 28.5	2.569	3.572	1.4	20.6	4 21	14 3.48	+ 8 8.7	1.263	2.233	8.9	22.0
5 1	13 54.80	-15 42.8	2.576	3.574	2.6	20.7	5 1	13 47.61	+ 9 53.5	1.251	2.195	12.2	22.0
5 11	13 47.96	-14 56.8	2.613	3.577	5.6	20.9	5 11	13 32.59	+11 5.6	1.266	2.154	16.8	22.2
5 21	13 42.27	-14 14.2	2.676	3.579	8.5	21.1	5 21	13 19.93	+11 40.6	1.302	2.109	21.3	22.3
5 31	13 38.13	-13 38.5	2.763	3.580	11.0	21.3	5 31	13 10.64	+11 39.9	1.354	2.060	25.2	22.5
<b>282341</b>	2002 XZ <sub>30</sub>		4 22.4 135°09	3°6/26.3	18		<b>405444</b>	2004 TL <sub>84</sub>		4 22.4 209°19	0°9/23.0	16	
3 22	14 22.32	-26 23.8	2.264	3.080	12.4	20.4	3 22	14 27.71	-16 8.9	1.671	2.530	14.1	22.3
4 1	14 17.06	-26 4.6	2.186	3.083	9.7	20.2	4 1	14 21.38	-15 52.1	1.594	2.526	10.3	22.1
4 11	14 10.16	-25 28.1	2.131	3.087	6.7	20.0	4 11	14 12.75	-15 22.3	1.539	2.521	5.9	21.8
4 21	14 2.32	-24 35.6	2.103	3.091	4.1	19.8	4 21	14 2.70	-14 42.1	1.511	2.515	1.3	21.5
5 1	13 54.40	-23 30.5	2.103	3.095	4.0	19.8	5 1	13 52.39	-13 56.3	1.511	2.509	4.0	21.7
5 11	13 47.27	-22 18.7	2.131	3.098	6.5	20.0	5 11	13 43.06	-13 11.3	1.538	2.503	8.7	21.9
5 21	13 41.59	-21 6.3	2.186	3.101	9.5	20.2	5 21	13 35.66	-12 33.2	1.588	2.496	12.9	22.2
5 31	13 37.85	-19 59.1	2.264	3.104	12.3	20.4	5 31	13 30.83	-12 6.7	1.660	2.488	16.5	22.4
<b>326195</b>	2012 CA <sub>12</sub>		4 22.4 327°09	3°9/24.8	17		<b>322548</b>	2011 YD <sub>37</sub>		4 22.5 69°65	1°6/21.3	18	
3 22	14 25.57	-21 26.8	1.390	2.247									

EPHEMERIDES

4 22.5

4 22.5

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>491590</b>	2012 <i>SR</i> <sub>26</sub>		4 22.5 195°64	0°4/22.8	17		<b>214487</b>	Baranivka		4 22.5 263°80	1°5/20.9	18	
3 22	14 23.22	-15 10.0	2.499	3.350	10.3	22.5	3 22	14 22.04	-8 35.7	2.433	3.300	9.9	20.6
4 1	14 17.53	-14 47.9	2.418	3.347	7.4	22.3	4 1	14 16.76	-8 10.6	2.348	3.288	7.0	20.4
4 11	14 10.39	-14 17.4	2.363	3.344	4.2	22.1	4 11	14 10.02	-7 41.4	2.290	3.275	3.9	20.1
4 21	14 2.39	-13 40.8	2.337	3.341	0.7	21.8	4 21	14 2.38	-7 11.1	2.260	3.263	1.5	19.9
5 1	13 54.27	-13 1.5	2.340	3.338	2.9	22.0	5 1	13 54.57	-6 43.4	2.259	3.250	3.9	20.1
5 11	13 46.78	-12 23.6	2.372	3.333	6.3	22.2	5 11	13 47.33	-6 21.9	2.286	3.237	7.2	20.3
5 21	13 40.53	-11 50.7	2.431	3.329	9.4	22.4	5 21	13 41.29	-6 9.3	2.339	3.224	10.3	20.4
5 31	13 35.99	-11 26.0	2.513	3.324	12.1	22.5	5 31	13 36.93	-6 7.5	2.414	3.211	12.9	20.6
<b>431928</b>	2008 <i>TZ</i> <sub>129</sub>		4 22.5 290°53	2°2/24.2	17		<b>102829</b>	1999 <i>VK</i> <sub>187</sub>		4 22.5 173°46	2°1/20.8	18	
3 22	14 24.42	-19 31.1	1.892	2.741	13.2	21.2	3 22	14 26.58	-8 18.9	1.922	2.791	12.1	20.8
4 1	14 18.83	-19 29.2	1.816	2.739	9.8	21.0	4 1	14 20.18	-7 41.7	1.854	2.794	8.6	20.6
4 11	14 11.27	-19 13.7	1.763	2.738	6.1	20.8	4 11	14 11.94	-6 59.5	1.812	2.797	4.7	20.3
4 21	14 2.51	-18 46.0	1.736	2.736	2.6	20.6	4 21	14 2.63	-6 16.7	1.797	2.798	2.1	20.2
5 1	13 53.56	-18 9.8	1.737	2.735	3.7	20.6	5 1	13 53.23	-5 38.3	1.811	2.800	4.9	20.3
5 11	13 45.47	-17 30.1	1.765	2.734	7.5	20.9	5 11	13 44.72	-5 9.2	1.852	2.800	8.7	20.6
5 21	13 39.05	-16 52.6	1.818	2.732	11.2	21.1	5 21	13 37.86	-4 52.4	1.917	2.800	12.3	20.8
5 31	13 34.88	-16 22.1	1.893	2.731	14.4	21.3	5 31	13 33.16	-4 49.8	2.004	2.800	15.2	21.0
<b>458917</b>	2011 <i>UV</i> <sub>274</sub>		4 22.5 252°31	1°8/23.8	16		<b>170843</b>	2004 <i>FU</i> <sub>51</sub>		4 22.5 114°47	4°2/17.9	17	
3 22	14 25.83	-19 2.6	1.481	2.342	15.5	22.0	3 22	14 21.45	-1 7.4	2.299	3.174	10.1	20.3
4 1	14 20.32	-18 39.8	1.402	2.333	11.5	21.7	4 1	14 16.21	+0 0.8	2.247	3.187	7.3	20.1
4 11	14 12.29	-17 58.9	1.345	2.325	6.9	21.4	4 11	14 9.63	+1 7.7	2.223	3.199	4.9	20.0
4 21	14 2.65	-17 2.3	1.313	2.316	2.4	21.1	4 21	14 2.33	+2 8.1	2.226	3.210	4.4	20.0
5 1	13 52.69	-15 55.7	1.307	2.307	4.3	21.2	5 1	13 55.05	+2 57.0	2.258	3.222	6.3	20.1
5 11	13 43.78	-14 47.8	1.327	2.297	9.2	21.4	5 11	13 48.51	+3 30.9	2.317	3.233	8.9	20.3
5 21	13 36.97	-13 46.6	1.370	2.288	13.9	21.7	5 21	13 43.25	+3 48.2	2.399	3.244	11.5	20.5
5 31	13 32.97	-12 58.9	1.433	2.278	17.9	21.9	5 31	13 39.67	+3 48.9	2.502	3.254	13.7	20.6
<b>518394</b>	2017 <i>TG</i> <sub>13</sub>		4 22.5 200°01	2°6/24.7	17		<b>323400</b>	2004 <i>BH</i> <sub>21</sub>		4 22.5 68°94	2°9/20.6	18	
3 22	14 24.23	-21 17.4	2.042	2.881	12.7	21.6	3 22	14 27.47	-6 40.4	1.440	2.322	14.6	20.8
4 1	14 18.59	-21 12.4	1.963	2.880	9.6	21.4	4 1	14 21.05	-6 9.1	1.396	2.341	10.3	20.6
4 11	14 11.10	-20 53.1	1.908	2.879	6.1	21.2	4 11	14 12.44	-5 34.8	1.375	2.361	5.7	20.4
4 21	14 2.49	-20 20.7	1.880	2.878	3.0	21.0	4 21	14 2.69	-5 2.8	1.379	2.380	3.0	20.3
5 1	13 53.71	-19 38.6	1.880	2.876	3.7	21.0	5 1	13 53.07	-4 38.8	1.410	2.399	6.0	20.5
5 11	13 45.73	-18 52.0	1.907	2.874	7.1	21.2	5 11	13 44.75	-4 27.4	1.466	2.418	10.3	20.8
5 21	13 39.33	-18 6.3	1.959	2.873	10.6	21.4	5 21	13 38.56	-4 30.9	1.545	2.437	14.1	21.1
5 31	13 35.05	-17 26.9	2.035	2.871	13.6	21.6	5 31	13 34.97	-4 49.6	1.643	2.456	17.3	21.3
<b>422365</b>	2014 <i>SX</i> <sub>241</sub>		4 22.5 253°16	2°5/20.9	16		<b>267357</b>	2001 <i>XF</i> <sub>20</sub>		4 22.5 146°45	2°3/20.4	18	
3 22	14 28.39	-7 37.8	1.591	2.466	13.8	21.6	3 22	14 25.96	-6 35.6	2.264	3.130	10.7	20.7
4 1	14 22.01	-7 11.1	1.508	2.451	9.9	21.3	4 1	14 19.45	-6 3.3	2.203	3.141	7.5	20.5
4 11	14 13.20	-6 39.0	1.449	2.435	5.6	21.0	4 11	14 11.42	-5 28.5	2.168	3.151	4.2	20.4
4 21	14 2.78	-6 6.3	1.416	2.418	2.5	20.7	4 21	14 2.57	-4 54.8	2.161	3.161	2.3	20.2
5 1	13 51.96	-5 38.5	1.411	2.401	5.8	20.9	5 1	13 53.71	-4 26.4	2.185	3.170	4.6	20.4
5 11	13 42.04	-5 21.0	1.431	2.383	10.4	21.1	5 11	13 45.65	-4 6.6	2.236	3.179	7.8	20.6
5 21	13 34.06	-5 17.7	1.475	2.365	14.8	21.3	5 21	13 39.01	-3 57.7	2.313	3.187	10.8	20.8
5 31	13 28.75	-5 30.5	1.538	2.347	18.5	21.5	5 31	13 34.22	-4 0.9	2.412	3.194	13.4	21.0
<b>354682</b>	2005 <i>OC</i> <sub>27</sub>		4 22.5 226°17	5°7/28.9	18		<b>320663</b>	2008 <i>CE</i> <sub>171</sub>		4 22.5 180°92	2°5/24.4	17	
3 22	14 24.94	-34 57.5	2.976	3.725	11.3	21.7	3 22	14 24.92	-20 53.6	1.632	2.483	14.8	21.0
4 1	14 18.87	-35 18.8	2.875	3.714	9.5	21.6	4 1	14 19.43	-20 35.7	1.559	2.483	11.1	20.7
4 11	14 11.20	-35 23.6	2.798	3.703	7.7	21.4	4 11	14 11.70	-19 59.9	1.508	2.483	6.9	20.5
4 21	14 2.51	-35 10.7	2.747	3.691	6.2	21.3	4 21	14 2.62	-19 8.5	1.483	2.483	3.0	20.2
5 1	13 53.57	-34 40.6	2.723	3.679	5.8	21.3	5 1	13 53.37	-18 6.4	1.485	2.483	4.1	20.3
5 11	13 45.20	-33 56.2	2.727	3.666	6.7	21.3	5 11	13 45.14	-17 1.2	1.512	2.483	8.3	20.5
5 21	13 38.06	-33 2.2	2.758	3.653	8.5	21.4	5 21	13 38.86	-16 0.3	1.565	2.483	12.4	20.8
5 31	13 32.70	-32 3.8	2.813	3.640	10.5	21.5	5 31	13 35.12	-15 10.2	1.638	2.482	16.0	21.0
<b>496847</b>	1999 <i>TS</i> <sub>209</sub>		4 22.5 176°70	1°7/20.3	17		<b>326408</b>	2001 <i>SQ</i> <sub>177</sub>		4 22.5 189°03	0°1/22.4	17	
3 22	14 22.03	-9 38.0	2.673	3.535	9.3	22.5	3 22	14 28.76	-12 4.8	2.059	2.915	11.9	20.8
4 1	14 16.53	-8 28.0	2.601	3.538	6.5	22.3	4 1	14 21.75	-12 8.1	1.982	2.915	8.6	20.6
4 11	14 9.77	-7 12.3	2.556	3.540	3.6	22.1	4 11	14 12.84	-12 5.1	1.931	2.914	4.7	20.4
4 21	14 2.32	-5 55.3	2.541	3.542	1.7	22.0	4 21	14 2.77	-11 57.7	1.907	2.912	0.6	20.0
5 1	13 54.82	-4 41.8	2.556	3.542	4.0	22.1	5 1	13 52.52	-11 48.8	1.913	2.910	3.6	20.3
5 11	13 47.95	-3 36.6	2.602	3.542	6.9	22.3	5 11	13 43.07	-11 41.7	1.948	2.907	7.6	20.5
5 21	13 42.21	-2 43.2	2.673	3.542	9.7	22.5	5 21	13 35.24	-11 39.8	2.008	2.904	11.2	20.7
5 31	13 37.99	-2 3.6	2.768	3.540	12.0	22.7	5 31	13 29.57	-11 45.6	2.091	2.901	14.2	20.9
<b>73250</b>	2002 <i>JL</i> <sub>42</sub>		4 22.5 236°24	0°3/22.7	17		<b>330917</b>	2009 <i>SH</i> <sub>104</sub>		4 22.5 260°39	1°1/23.2	18	
3 22	14 25.41	-15 45.4	1.780	2.640	13.3	19.8	3 22	14 28.76	-15 8.6	1.962	2.813	12.6	19.9
4 1	14 19.67	-15 7.2	1.695	2.629	9.7	19.6	4 1	14 22.07	-15 21.8	1.866	2.795	9.3	19.6
4 11	14 11.81	-14 15.4	1.634	2.617	5.4	19.3	4 11	14 13.19	-15 26.3	1.796	2.775	5.4	19.3
4 21	14 2.61	-13 13.6	1.600	2.605	0.8	18.9	4 21	14 2.84	-15 23.2	1.752	2.756	1.4	19.0
5 1	13 53.14	-12 7.5	1.594	2.592	4.0	19.1	5 1	13 52.03	-15 14.5	1.738	2.736	3.7	19.1
5 11	13 44.52	-11 4.1	1.615	2.578	8.5	19.4	5 11	13 41.90	-15 4.2	1.752	2.715	7.9	19.3
5 21	13 37.64	-10 9.9	1.661	2.564	12.7	19.6	5 21	13 33.40	-14 56.3	1.791	2.695	11.9	19.5
5 31	13 33.13	-9 29.7	1.727	2.550	16.2	19.8	5 31	13 27.23	-14 54.8	1.852	2.673	15.4	19.7
<b>176642</b>	2002 <i>NT</i> <sub>10</sub>		4 22.5 238°43	1°6/23.8	18		<b>437222</b>	2012 <i>WM</i> <sub>30</sub>		4 22.5 246°95	0°9/21.6	17	
3 22	14 26.31</												

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>196507</b>	2003 <i>MN</i> <sub>12</sub>		4 22.5 344°19	3°9/26.0	18		<b>2962</b>	Otto		4 22.5 34°48	4°5/19.9	18	
3 22	14 20.49	-26 0.2	1.577	2.418	15.8	19.1	3 22	14 29.23	-0 52.9	1.603	2.480	13.6	15.0
4 1	14 16.39	-25 20.6	1.499	2.412	12.2	18.8	4 1	14 22.34	-0 44.3	1.542	2.482	9.9	14.8
4 11	14 10.07	-24 15.6	1.442	2.408	8.2	18.6	4 11	14 13.24	-0 39.5	1.504	2.484	6.2	14.5
4 21	14 2.42	-22 47.7	1.409	2.403	4.6	18.3	4 21	14 2.84	-0 42.8	1.493	2.487	4.5	14.4
5 1	13 54.59	-21 3.3	1.403	2.399	4.6	18.3	5 1	13 52.35	-0 57.9	1.510	2.489	6.9	14.6
5 11	13 47.78	-19 12.2	1.422	2.396	8.3	18.5	5 11	13 42.96	-1 27.2	1.552	2.492	10.7	14.8
5 21	13 42.90	-17 25.1	1.466	2.394	12.4	18.8	5 21	13 35.56	-2 10.6	1.617	2.495	14.4	15.0
5 31	13 40.53	-15 50.8	1.532	2.391	16.1	19.0	5 31	13 30.72	-3 7.3	1.702	2.498	17.5	15.3
<b>123501</b>	2000 <i>WM</i> <sub>180</sub>		4 22.5 131°64	7°1/16.1	18		<b>3960</b>	Chalubieju		4 22.5 77°59	7°2/17.5	18	
3 22	14 25.81	+ 8 32.1	2.146	3.009	11.2	19.6	3 22	14 28.82	+ 6 11.6	1.728	2.599	13.1	16.3
4 1	14 19.35	+ 9 27.0	2.102	3.021	8.9	19.5	4 1	14 21.54	+ 7 1.2	1.700	2.628	10.1	16.2
4 11	14 11.35	+10 12.3	2.082	3.032	7.3	19.4	4 11	14 12.52	+ 7 40.5	1.697	2.658	7.7	16.1
4 21	14 2.56	+10 42.6	2.090	3.042	7.3	19.4	4 21	14 2.72	+ 8 3.5	1.720	2.687	7.3	16.2
5 1	13 53.83	+10 53.8	2.125	3.052	8.8	19.6	5 1	13 53.20	+ 8 6.4	1.770	2.716	9.1	16.3
5 11	13 45.99	+10 44.5	2.184	3.062	11.1	19.7	5 11	13 44.93	+ 7 48.3	1.845	2.744	11.7	16.5
5 21	13 39.65	+10 15.6	2.267	3.072	13.4	19.9	5 21	13 38.54	+ 7 10.7	1.942	2.772	14.3	16.8
5 31	13 35.22	+ 9 29.2	2.368	3.080	15.4	20.1	5 31	13 34.43	+ 6 16.6	2.057	2.799	16.6	17.0
<b>168497</b>	1999 <i>RX</i> <sub>207</sub>		4 22.5 150°85	2°9/25.1	18		<b>497463</b>	2005 <i>YB</i> <sub>101</sub>		4 22.5 235°29	5°2/27.2	17	
3 22	14 27.48	-23 4.0	2.111	2.936	12.9	20.8	3 22	14 24.84	-29 6.0	1.981	2.787	14.3	21.2
4 1	14 20.78	-22 48.4	2.039	2.947	9.8	20.6	4 1	14 19.26	-29 5.0	1.893	2.781	11.5	21.0
4 11	14 12.25	-22 16.8	1.992	2.958	6.3	20.4	4 11	14 11.60	-28 42.9	1.828	2.774	8.4	20.8
4 21	14 2.69	-21 30.9	1.972	2.967	3.3	20.3	4 21	14 2.64	-27 59.5	1.788	2.767	5.8	20.6
5 1	13 53.09	-20 34.4	1.980	2.976	3.7	20.3	5 1	13 53.44	-26 57.3	1.775	2.760	5.5	20.6
5 11	13 44.40	-19 33.1	2.018	2.983	6.9	20.5	5 11	13 45.09	-25 42.7	1.788	2.752	7.8	20.7
5 21	13 37.38	-18 33.3	2.081	2.990	10.2	20.7	5 21	13 38.49	-24 23.2	1.827	2.745	11.0	20.9
5 31	13 32.52	-17 40.3	2.168	2.996	13.2	20.9	5 31	13 34.23	-23 6.7	1.889	2.737	14.1	21.1
<b>406427</b>	2007 <i>TB</i> <sub>207</sub>		4 22.5 182°00	1°3/23.4	16		<b>325810</b>	2010 <i>RE</i> <sub>112</sub>		4 22.5 133°71	3°4/19.5	16	
3 22	14 28.01	-17 5.8	1.737	2.590	13.9	21.7	3 22	14 24.00	- 6 56.9	1.709	2.589	12.8	21.7
4 1	14 21.51	-16 55.2	1.663	2.591	10.2	21.4	4 1	14 18.45	- 5 38.6	1.651	2.596	9.0	21.5
4 11	14 12.81	-16 31.5	1.612	2.592	5.9	21.2	4 11	14 11.02	- 4 15.1	1.619	2.604	5.2	21.3
4 21	14 2.78	-15 57.0	1.588	2.592	1.7	20.9	4 21	14 2.56	- 2 53.6	1.613	2.610	3.5	21.2
5 1	13 52.56	-15 16.0	1.593	2.591	3.8	21.0	5 1	13 54.08	- 1 41.6	1.635	2.617	6.3	21.3
5 11	13 43.33	-14 34.4	1.624	2.590	8.2	21.3	5 11	13 46.59	- 0 45.6	1.684	2.623	10.1	21.6
5 21	13 35.99	-13 58.0	1.680	2.588	12.3	21.5	5 21	13 40.84	- 0 9.0	1.755	2.629	13.6	21.8
5 31	13 31.15	-13 31.6	1.757	2.586	15.7	21.7	5 31	13 37.32	+ 0 6.9	1.846	2.635	16.6	22.0
<b>155209</b>	2005 <i>UV</i> <sub>481</sub>		4 22.5 105°20	12°7/ 9.9	18		<b>416998</b>	2005 <i>TS</i> <sub>163</sub>		4 22.5 93°60	2°4/24.0	18	
3 22	14 25.35	+22 3.7	1.803	2.638	14.3	19.6	3 22	14 30.30	-18 24.0	1.830	2.674	13.8	21.0
4 1	14 19.34	+23 38.7	1.774	2.643	13.1	19.5	4 1	14 22.95	-18 48.4	1.770	2.692	10.2	20.8
4 11	14 11.46	+24 50.5	1.767	2.647	12.7	19.5	4 11	14 13.50	-19 0.8	1.735	2.709	6.2	20.6
4 21	14 2.59	+25 31.6	1.782	2.652	13.3	19.5	4 21	14 2.88	-19 1.6	1.727	2.727	2.7	20.5
5 1	13 53.80	+25 37.9	1.819	2.656	14.7	19.6	5 1	13 52.22	-18 53.2	1.747	2.744	3.9	20.6
5 11	13 46.10	+25 9.5	1.876	2.661	16.3	19.8	5 11	13 42.64	-18 39.9	1.795	2.760	7.6	20.8
5 21	13 40.22	+24 10.5	1.949	2.665	18.1	19.9	5 21	13 34.99	-18 26.5	1.868	2.777	11.2	21.1
5 31	13 36.61	+22 46.2	2.037	2.670	19.6	20.1	5 31	13 29.79	-18 17.3	1.963	2.793	14.3	21.3
<b>498796</b>	2008 <i>UY</i> <sub>210</sub>		4 22.5 165°88	0°1/22.6	17		<b>471311</b>	2011 <i>HA</i> <sub>85</sub>		4 22.5 314°02	7°2/15.4	17	
3 22	14 24.67	-13 48.6	2.125	2.983	11.5	21.9	3 22	14 20.01	+ 2 33.6	1.671	2.560	12.5	20.5
4 1	14 18.76	-13 34.2	2.052	2.985	8.3	21.7	4 1	14 15.81	+ 4 16.6	1.605	2.546	9.5	20.3
4 11	14 11.16	-13 11.7	2.005	2.987	4.6	21.5	4 11	14 9.69	+ 5 57.4	1.564	2.532	7.4	20.1
4 21	14 2.56	-12 43.5	1.985	2.989	0.6	21.2	4 21	14 2.40	+ 7 26.7	1.548	2.519	7.6	20.1
5 1	13 53.86	-12 13.4	1.993	2.991	3.4	21.4	5 1	13 54.92	+ 8 36.0	1.558	2.505	10.0	20.2
5 11	13 45.92	-11 45.5	2.030	2.992	7.2	21.6	5 11	13 48.26	+ 9 19.4	1.592	2.493	13.2	20.4
5 21	13 39.46	-11 23.8	2.093	2.993	10.6	21.9	5 21	13 43.23	+ 9 35.0	1.645	2.480	16.3	20.5
5 31	13 34.98	-11 11.1	2.177	2.994	13.5	22.1	5 31	13 40.38	+ 9 23.8	1.716	2.468	19.0	20.7
<b>420291</b>	2011 <i>UV</i> <sub>246</sub>		4 22.5 226°71	1°8/21.4	16		<b>215982</b>	2005 <i>SN</i> <sub>27</sub>		4 22.5 222°18	0°4/22.0	18	
3 22	14 27.98	- 9 21.0	1.514	2.390	14.3	21.4	3 22	14 19.82	-14 29.3	2.509	3.367	10.0	20.4
4 1	14 21.70	- 8 59.3	1.443	2.386	10.2	21.1	4 1	14 15.13	-13 31.5	2.429	3.363	7.1	20.2
4 11	14 13.01	- 8 31.0	1.395	2.382	5.6	20.9	4 11	14 9.11	-12 24.4	2.375	3.359	3.9	20.0
4 21	14 2.82	- 8 0.4	1.373	2.377	1.8	20.6	4 21	14 2.32	-11 11.6	2.350	3.355	0.5	19.7
5 1	13 52.38	- 7 32.9	1.378	2.372	5.3	20.8	5 1	13 55.44	- 9 58.1	2.355	3.350	3.2	19.9
5 11	13 43.00	- 7 14.1	1.409	2.366	10.1	21.1	5 11	13 49.18	- 8 49.0	2.389	3.346	6.5	20.1
5 21	13 35.68	- 7 7.8	1.462	2.361	14.4	21.3	5 21	13 44.07	- 7 48.8	2.449	3.341	9.6	20.3
5 31	13 31.06	- 7 16.4	1.535	2.355	18.0	21.5	5 31	13 40.55	- 7 0.8	2.532	3.336	12.2	20.5
<b>465930</b>	2010 <i>XA</i> <sub>4</sub>		4 22.5 56°31	2°1/23.9	17		<b>457742</b>	2009 <i>HG</i> <sub>19</sub>		4 22.5 26°09	1°4/21.6	17	
3 22	14 25.35	-19 5.2	1.502	2.362	15.4	20.4	3 22	14 24.52	-11 9.2	1.210	2.099	16.2	20.8
4 1	14 19.74	-18 55.8	1.443	2.373	11.3	20.2	4 1	14 19.47	-10 42.5	1.156	2.105	11.5	20.5
4 11	14 11.84	-18 30.3	1.407	2.385	6.8	19.9	4 11	14 11.83	-10 5.9	1.123	2.111	6.2	20.3
4 21	14 2.66	-17 51.0	1.396	2.397	2.6	19.7	4 21	14 2.68	- 9 25.0	1.115	2.119	1.4	20.0
5 1	13 53.42	-17 3.3	1.411	2.409	4.1	19.8	5 1	13 53.45	- 8 46.7	1.130	2.127	5.5	20.2
5 11	13 45.38	-16 14.2	1.451	2.422	8.5	20.1	5 11	13 45.57	- 8 18.2	1.169	2.135	10.7	20.6
5 21	13 39.42	-15 30.5	1.515	2.434	12.7	20.4	5 21	13 40.03	- 8 4.1	1.230	2.145	15.3	20.9
5 31	13 36.08	-14 57.5	1.600	2.447	16.2	20.6	5 31	13 37.42	- 8 7.1	1.309	2.154	19.2	21.1
<b>500962</b>	2013 <i>QT</i> <sub>50</sub>		4 22.5 318°20	0°1/22.4	17		<b>311124</b>	2004 <i>PH</i> <sub>97</sub>		4 22.5 220°78			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>281157</b>	2007 <i>DL</i> <sub>104</sub>		4 22.5 93°62	12°9/14.1	18		<b>268418</b>	2005 <i>UH</i> <sub>391</sub>		4 22.5 157°67	4°9/26.8	17	
3 22	14 33.49	+23 34.9	1.776	2.593	15.3	19.6	3 22	14 29.21	-28 23.6	2.335	3.128	12.8	22.4
4 1	14 25.02	+24 17.6	1.742	2.602	13.7	19.5	4 1	14 22.06	-28 45.0	2.257	3.137	10.2	22.2
4 11	14 14.50	+24 34.5	1.729	2.610	12.9	19.4	4 11	14 13.04	-28 49.5	2.203	3.144	7.5	22.0
4 21	14 3.01	+24 19.5	1.739	2.618	13.1	19.5	4 21	14 2.89	-28 36.5	2.176	3.151	5.3	21.9
5 1	13 51.76	+23 30.2	1.773	2.626	14.2	19.5	5 1	13 52.58	-28 7.4	2.177	3.157	5.1	21.9
5 11	13 41.89	+22 8.7	1.828	2.634	15.9	19.7	5 11	13 43.10	-27 26.6	2.207	3.163	7.1	22.0
5 21	13 34.17	+20 20.9	1.903	2.642	17.7	19.8	5 21	13 35.24	-26 39.7	2.263	3.168	9.7	22.2
5 31	13 29.03	+18 13.4	1.996	2.650	19.4	20.0	5 31	13 29.53	-25 52.6	2.343	3.172	12.3	22.4
<b>352650</b>	2008 <i>PF</i> <sub>9</sub>		4 22.5 198°31	4°2/19.2	17		<b>345866</b>	2007 <i>QP</i>		4 22.5 281°65	11°1/8.6	17	
3 22	14 27.36	-4 23.8	1.659	2.537	13.2	21.9	3 22	14 22.60	+18 30.4	2.008	2.855	12.6	20.5
4 1	14 21.01	-3 18.8	1.591	2.534	9.5	21.7	4 1	14 17.52	+20 22.5	1.949	2.832	11.4	20.4
4 11	14 12.53	-2 10.6	1.548	2.531	5.8	21.4	4 11	14 10.61	+21 59.3	1.914	2.809	11.2	20.3
4 21	14 2.78	-1 6.2	1.532	2.526	4.3	21.3	4 21	14 2.58	+23 12.1	1.904	2.786	12.0	20.3
5 1	13 52.87	+0 12.9	1.544	2.522	7.1	21.5	5 1	13 54.32	+23 54.6	1.916	2.763	13.6	20.4
5 11	13 43.96	+0 23.6	1.581	2.516	11.0	21.7	5 11	13 46.79	+24 4.1	1.948	2.740	15.6	20.5
5 21	13 36.92	+0 40.2	1.641	2.510	14.7	21.9	5 21	13 40.77	+23 41.9	1.998	2.716	17.6	20.6
5 31	13 32.31	+0 36.4	1.720	2.502	17.9	22.1	5 31	13 36.81	+22 51.4	2.062	2.693	19.4	20.7
<b>1094</b>	Siberia		4 22.5 94°39	7°2/15.9	18 R		<b>474840</b>	2005 <i>SM</i> <sub>68</sub>		4 22.5 214°65	1°2/23.8	18	
3 22	14 23.64	+3 42.8	1.690	2.572	12.8	15.5	3 22	14 21.92	-18 18.2	2.785	3.624	9.7	22.3
4 1	14 18.11	+5 21.2	1.651	2.586	9.7	15.4	4 1	14 16.59	-18 3.5	2.697	3.618	7.1	22.1
4 11	14 10.79	+6 52.9	1.636	2.600	7.6	15.3	4 11	14 9.93	-17 39.5	2.636	3.611	4.3	21.9
4 21	14 2.54	+8 9.4	1.647	2.614	7.6	15.3	4 21	14 2.49	-17 7.6	2.603	3.605	1.5	21.7
5 1	13 54.37	+9 3.8	1.685	2.628	9.7	15.5	5 1	13 54.90	-16 30.8	2.600	3.598	2.6	21.7
5 11	13 47.25	+9 32.6	1.746	2.641	12.5	15.7	5 11	13 47.86	-15 52.7	2.626	3.591	5.6	21.9
5 21	13 41.86	+9 35.7	1.829	2.654	15.3	15.9	5 21	13 41.92	-15 16.7	2.679	3.583	8.4	22.1
5 31	13 38.64	+9 15.3	1.929	2.667	17.6	16.1	5 31	13 37.51	-14 46.4	2.756	3.575	10.9	22.3
<b>471372</b>	2011 <i>SH</i> <sub>74</sub>		4 22.5 185°89	5°1/27.5	16		<b>504359</b>	2007 <i>UZ</i> <sub>53</sub>		4 22.5 235°04	1°6/24.1	17	
3 22	14 25.95	-30 30.8	2.658	3.439	11.8	21.5	3 22	14 21.57	-20 20.2	2.227	3.069	11.7	21.5
4 1	14 19.66	-30 58.8	2.572	3.438	9.6	21.4	4 1	14 16.60	-19 40.5	2.143	3.064	8.7	21.3
4 11	14 11.70	-31 11.1	2.509	3.438	7.3	21.2	4 11	14 10.02	-18 46.5	2.084	3.059	5.3	21.1
4 21	14 2.69	-31 6.9	2.473	3.437	5.6	21.1	4 21	14 2.50	-17 40.8	2.052	3.053	2.0	20.8
5 1	13 53.46	-30 47.1	2.464	3.436	5.3	21.1	5 1	13 54.84	-16 28.1	2.049	3.047	3.1	20.9
5 11	13 44.88	-30 14.7	2.484	3.435	6.7	21.2	5 11	13 47.89	-15 14.3	2.074	3.041	6.6	21.1
5 21	13 37.65	-29 34.6	2.530	3.433	8.9	21.3	5 21	13 42.32	-14 5.2	2.126	3.035	10.0	21.3
5 31	13 32.31	-28 51.8	2.601	3.431	11.2	21.4	5 31	13 38.62	-13 6.0	2.200	3.029	13.0	21.5
<b>69451</b>	1996 <i>TD</i> <sub>5</sub>		4 22.5 354°78	1°1/23.1	17		<b>70275</b>	1999 <i>RJ</i> <sub>109</sub>		4 22.5 253°37	5°3/26.2	18	
3 22	14 26.08	-15 15.4	1.282	2.159	16.4	19.1	3 22	14 28.68	-26 41.3	1.804	2.622	15.1	19.4
4 1	14 20.73	-15 18.5	1.216	2.157	11.9	18.8	4 1	14 22.38	-27 4.7	1.709	2.605	12.0	19.2
4 11	14 12.64	-15 8.5	1.171	2.155	6.8	18.5	4 11	14 13.55	-27 9.0	1.635	2.588	8.7	18.9
4 21	14 2.84	-14 47.6	1.150	2.154	1.6	18.2	4 21	14 3.00	-26 52.5	1.587	2.570	5.9	18.7
5 1	13 52.75	-14 20.8	1.154	2.153	4.6	18.4	5 1	13 51.92	-26 16.3	1.565	2.552	5.8	18.7
5 11	13 43.88	-13 54.6	1.182	2.153	9.9	18.7	5 11	13 41.63	-25 25.6	1.569	2.533	8.7	18.8
5 21	13 37.37	-13 35.3	1.231	2.153	14.7	18.9	5 21	13 33.27	-24 28.0	1.599	2.514	12.4	19.0
5 31	13 33.89	-13 27.7	1.300	2.154	18.8	19.2	5 31	13 27.62	-23 31.6	1.650	2.494	15.9	19.1
<b>510444</b>	2011 <i>VG</i> <sub>15</sub>		4 22.5 203°93	1°0/23.7	17		<b>519966</b>	2013 <i>TL</i> <sub>165</sub>		4 22.5 133°50	0°4/22.1	17	
3 22	14 20.76	-18 30.8	2.639	3.481	10.1	22.2	3 22	14 23.84	-13 36.9	2.002	2.865	12.0	22.3
4 1	14 15.79	-17 57.5	2.556	3.479	7.4	22.0	4 1	14 18.21	-12 56.6	1.937	2.873	8.5	22.1
4 11	14 9.49	-17 13.5	2.499	3.476	4.3	21.8	4 11	14 10.88	-12 6.9	1.896	2.880	4.6	21.9
4 21	14 2.41	-16 21.2	2.470	3.472	1.4	21.6	4 21	14 2.61	-11 11.8	1.883	2.888	0.6	21.6
5 1	13 55.24	-15 24.2	2.471	3.469	2.7	21.6	5 1	13 54.30	-10 16.5	1.899	2.895	3.7	21.8
5 11	13 48.65	-14 27.1	2.500	3.465	5.8	21.9	5 11	13 46.84	-9 26.4	1.942	2.902	7.6	22.1
5 21	13 43.22	-13 34.2	2.557	3.461	8.8	22.0	5 21	13 40.92	-8 46.1	2.010	2.908	11.1	22.3
5 31	13 39.36	-12 49.2	2.637	3.457	11.3	22.2	5 31	13 37.02	-8 18.5	2.101	2.914	14.1	22.5
<b>437723</b>	2014 <i>DU</i> <sub>114</sub>		4 22.5 43°95	4°7/17.6	17		<b>199768</b>	2006 <i>KN</i> <sub>16</sub>		4 22.5 154°85	0°9/21.7	17	
3 22	14 19.75	-1 53.1	1.987	2.871	11.1	20.9	3 22	14 23.54	-11 42.0	2.075	2.941	11.5	20.9
4 1	14 15.24	-0 29.6	1.935	2.879	8.0	20.7	4 1	14 17.98	-11 9.1	2.006	2.944	8.1	20.7
4 11	14 9.21	+0 53.6	1.909	2.887	5.4	20.5	4 11	14 10.77	-10 28.9	1.962	2.947	4.4	20.5
4 21	14 2.37	+2 9.8	1.910	2.896	4.9	20.5	4 21	14 2.61	-9 45.0	1.945	2.949	0.9	20.2
5 1	13 55.52	+3 12.7	1.939	2.904	7.0	20.7	5 1	13 54.36	-9 2.1	1.957	2.952	3.8	20.5
5 11	13 49.47	+3 57.8	1.993	2.913	9.9	20.9	5 11	13 46.90	-8 25.0	1.997	2.954	7.6	20.7
5 21	13 44.82	+4 23.0	2.071	2.922	12.8	21.1	5 21	13 40.91	-7 57.2	2.062	2.956	11.0	20.9
5 31	13 41.99	+4 28.3	2.167	2.931	15.2	21.3	5 31	13 36.87	-7 41.5	2.149	2.958	13.9	21.1
<b>94770</b>	2001 <i>XA</i> <sub>102</sub>		4 22.5 223°58	0°5/22.1	18		<b>498084</b>	2007 <i>RM</i> <sub>215</sub>		4 22.5 180°10	1°4/23.9	17	
3 22	14 27.92	-12 45.1	1.752	2.616	13.3	20.2	3 22	14 23.70	-18 24.3	2.289	3.133	11.4	22.3
4 1	14 21.51	-12 19.3	1.670	2.606	9.6	19.9	4 1	14 18.06	-18 11.4	2.211	3.133	8.4	22.1
4 11	14 12.90	-11 43.5	1.612	2.596	5.3	19.6	4 11	14 10.81	-17 47.4	2.158	3.134	5.0	21.9
4 21	14 2.88	-11 1.3	1.581	2.586	0.8	19.3	4 21	14 2.62	-17 14.2	2.132	3.134	1.8	21.6
5 1	13 52.57	-10 17.7	1.578	2.574	4.3	19.5	5 1	13 54.30	-16 35.1	2.136	3.134	3.1	21.7
5 11	13 43.14	-9 38.7	1.603	2.562	8.9	19.8	5 11	13 46.69	-15 54.5	2.167	3.133	6.5	22.0
5 21	13 35.52	-9 9.4	1.651	2.550	13.1	20.0	5 21	13 40.47	-15 16.9	2.225	3.133	9.7	22.2
5 31	13 30.35	-8 53.3	1.721	2.536	16.6	20.2	5 31	13 36.10	-14 46.4	2.306	3.132	12.6	22.3
<b>10594</b>	1996 <i>RE</i> <sub>4</sub>		4 22.5 257°41	0°9/23.1	18		<b>290501</b>	2005 <i>UC</i> <sub>23</sub>		4 22.5 60°47	0°6/23.0	17	

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>467962</b>	2012 <i>JC</i> <sub>9</sub>		4 22.5 46°74	1°8/21.3	17		<b>184169</b>	2004 <i>LC</i> <sub>31</sub>		4 22.5 273°10	6°4/15.6	18	
3 22	14 26.31	- 8 50.2	1.590	2.467	13.7	21.3	3 22	14 22.01	+ 7 46.5	2.411	3.277	10.0	19.8
4 1	14 20.34	- 8 33.8	1.527	2.470	9.7	21.0	4 1	14 16.77	+ 8 41.7	2.342	3.263	8.0	19.7
4 11	14 12.22	- 8 12.1	1.488	2.474	5.3	20.8	4 11	14 10.09	+ 9 30.0	2.298	3.249	6.6	19.6
4 21	14 2.82	- 7 49.3	1.474	2.478	1.8	20.5	4 21	14 2.56	+10 6.1	2.282	3.235	6.7	19.5
5 1	13 53.31	- 7 30.1	1.488	2.481	5.0	20.8	5 1	13 54.90	+10 25.8	2.292	3.221	8.2	19.6
5 11	13 44.84	- 7 19.2	1.527	2.485	9.4	21.0	5 11	13 47.85	+10 26.6	2.328	3.207	10.4	19.7
5 21	13 38.30	- 7 19.5	1.590	2.490	13.4	21.3	5 21	13 42.02	+10 8.2	2.386	3.192	12.7	19.9
5 31	13 34.25	- 7 33.1	1.673	2.494	16.8	21.5	5 31	13 37.85	+ 9 31.9	2.464	3.178	14.8	20.0
<b>508724</b>	2017 <i>US</i> <sub>27</sub>		4 22.5 148°27	1°4/21.2	17		<b>374184</b>	2004 <i>XJ</i> <sub>186</sub>		4 22.5 125°93	5°1/27.8	17	
3 22	14 22.83	-10 4.4	2.142	3.010	11.0	21.4	3 22	14 25.31	-30 39.0	2.218	3.010	13.5	21.0
4 1	14 17.42	- 9 26.1	2.074	3.014	7.8	21.2	4 1	14 19.31	-30 30.8	2.146	3.022	10.8	20.8
4 11	14 10.45	- 8 41.9	2.032	3.017	4.2	21.0	4 11	14 11.52	-30 2.4	2.095	3.033	8.0	20.7
4 21	14 2.58	- 7 55.6	2.017	3.020	1.4	20.8	4 21	14 2.74	-29 14.2	2.071	3.045	5.7	20.6
5 1	13 54.64	- 7 12.1	2.032	3.023	4.1	21.0	5 1	13 53.92	-28 9.2	2.074	3.055	5.2	20.5
5 11	13 47.46	- 6 35.8	2.073	3.026	7.7	21.2	5 11	13 46.02	-26 53.5	2.105	3.066	7.0	20.7
5 21	13 41.68	- 6 10.0	2.140	3.029	10.9	21.4	5 21	13 39.74	-25 33.9	2.163	3.076	9.7	20.8
5 31	13 37.76	- 5 56.9	2.229	3.031	13.7	21.6	5 31	13 35.57	-24 17.3	2.244	3.086	12.3	21.0
<b>410770</b>	2009 <i>ER</i> <sub>1</sub>		4 22.5 347°66	5°4/19.1	17		<b>134609</b>	1999 <i>TO</i> <sub>213</sub>		4 22.5 200°13	1°3/23.6	17	
3 22	14 22.81	- 3 31.6	1.177	2.077	15.7	20.1	3 22	14 26.26	-18 9.4	1.853	2.704	13.3	20.7
4 1	14 18.41	- 2 34.6	1.118	2.071	11.4	19.8	4 1	14 20.23	-17 44.6	1.774	2.701	9.8	20.4
4 11	14 11.37	- 1 35.7	1.081	2.066	7.1	19.6	4 11	14 12.15	-17 5.7	1.719	2.697	5.8	20.2
4 21	14 2.72	- 0 43.5	1.066	2.061	5.5	19.5	4 21	14 2.84	-16 15.2	1.691	2.694	1.8	19.9
5 1	13 53.86	- 0 6.9	1.075	2.058	8.6	19.6	5 1	13 53.34	-15 17.9	1.691	2.689	3.6	20.0
5 11	13 46.23	+ 0 7.7	1.107	2.055	13.2	19.9	5 11	13 44.72	-14 20.2	1.718	2.684	7.9	20.3
5 21	13 40.88	- 0 2.1	1.157	2.053	17.6	20.1	5 21	13 37.85	-13 28.3	1.771	2.679	11.8	20.5
5 31	13 38.46	- 0 35.4	1.225	2.052	21.3	20.3	5 31	13 33.28	-12 47.2	1.845	2.673	15.1	20.7
<b>499721</b>	2011 <i>BQ</i> <sub>6</sub>		4 22.5 159°72	0°2/22.7	17		<b>368759</b>	2005 <i>VF</i> <sub>49</sub>		4 22.5 130°07	4°7/27.1	17	
3 22	14 25.93	-14 43.4	2.081	2.935	11.9	22.7	3 22	14 25.90	-28 46.4	2.054	2.858	13.9	21.0
4 1	14 19.69	-14 17.9	2.010	2.942	8.5	22.4	4 1	14 19.82	-28 37.4	1.982	2.869	11.1	20.9
4 11	14 11.72	-13 42.8	1.965	2.947	4.7	22.2	4 11	14 11.85	-28 8.0	1.933	2.880	8.0	20.7
4 21	14 2.76	-13 1.1	1.948	2.952	0.7	21.9	4 21	14 2.79	-27 19.0	1.909	2.890	5.4	20.5
5 1	13 53.72	-12 17.0	1.959	2.957	3.4	22.1	5 1	13 53.68	-26 13.8	1.913	2.899	5.0	20.5
5 11	13 45.51	-11 35.6	1.999	2.961	7.3	22.4	5 11	13 45.53	-24 58.7	1.945	2.909	7.3	20.7
5 21	13 38.86	-11 1.3	2.065	2.964	10.8	22.6	5 21	13 39.12	-23 41.1	2.002	2.917	10.3	20.9
5 31	13 34.24	-10 37.4	2.153	2.967	13.7	22.8	5 31	13 34.93	-22 27.9	2.083	2.926	13.1	21.1
<b>193665</b>	2001 <i>DU</i> <sub>62</sub>		4 22.5 133°51	4°1/18.4	17		<b>216435</b>	2009 <i>DT</i> <sub>58</sub>		4 22.5 310°02	3°0/20.6	17	
3 22	14 22.82	- 2 28.8	2.140	3.016	10.7	20.2	3 22	14 23.51	- 8 21.3	1.279	2.171	15.3	20.0
4 1	14 17.33	- 1 21.3	2.085	3.025	7.7	20.1	4 1	14 19.05	- 7 38.0	1.198	2.148	11.0	19.6
4 11	14 10.36	- 0 13.9	2.056	3.035	5.0	19.9	4 11	14 11.87	- 6 45.7	1.138	2.126	6.2	19.3
4 21	14 2.57	+ 0 47.9	2.055	3.043	4.2	19.9	4 21	14 2.84	- 5 50.9	1.103	2.105	3.0	19.0
5 1	13 54.79	+ 1 38.7	2.082	3.052	6.3	20.0	5 1	13 53.28	- 5 1.6	1.092	2.084	6.8	19.2
5 11	13 47.80	+ 2 14.5	2.137	3.060	9.2	20.2	5 11	13 44.68	- 4 26.1	1.104	2.063	12.1	19.4
5 21	13 42.20	+ 2 33.3	2.215	3.067	12.0	20.4	5 21	13 38.24	- 4 10.0	1.137	2.043	17.0	19.6
5 31	13 38.42	+ 2 35.0	2.313	3.075	14.4	20.6	5 31	13 34.78	- 4 15.9	1.187	2.024	21.3	19.8
<b>374411</b>	2005 <i>WJ</i> <sub>45</sub>		4 22.5 241°56	3°0/19.8	18		<b>336385</b>	2008 <i>UC</i> <sub>76</sub>		4 22.5 203°43	0°5/22.9	17	
3 22	14 26.82	- 4 11.8	2.311	3.176	10.5	22.4	3 22	14 24.15	-15 22.5	2.261	3.113	11.2	21.9
4 1	14 20.33	- 3 37.2	2.219	3.156	7.5	22.2	4 1	14 18.41	-15 4.3	2.180	3.110	8.1	21.7
4 11	14 12.13	- 3 0.9	2.155	3.135	4.5	21.9	4 11	14 11.04	-14 36.7	2.126	3.107	4.6	21.5
4 21	14 2.83	- 2 26.9	2.119	3.114	3.1	21.8	4 21	14 2.70	-14 2.3	2.098	3.103	0.9	21.2
5 1	13 53.26	- 1 59.4	2.112	3.092	5.3	21.9	5 1	13 54.21	-13 24.5	2.101	3.098	3.1	21.4
5 11	13 44.27	- 1 42.3	2.134	3.069	8.6	22.1	5 11	13 46.40	-12 47.9	2.131	3.094	6.8	21.6
5 21	13 36.62	- 1 37.8	2.182	3.045	11.8	22.2	5 21	13 39.98	-12 16.5	2.187	3.089	10.2	21.8
5 31	13 30.84	- 1 47.2	2.251	3.020	14.6	22.4	5 31	13 35.43	-11 53.7	2.267	3.084	13.0	22.0
<b>96656</b>	1999 <i>JJ</i> <sub>2</sub>		4 22.5 354°51	4°3/19.8	18		<b>326020</b>	2010 <i>WJ</i> <sub>67</sub>		4 22.5 265°50	0°5/22.2	17	
3 22	14 20.62	- 6 48.8	1.034	1.941	16.8	18.6	3 22	14 25.90	-12 26.2	1.631	2.502	13.8	21.2
4 1	14 17.09	- 5 48.9	0.978	1.935	12.0	18.3	4 1	14 20.16	-12 8.2	1.557	2.497	9.9	21.0
4 11	14 10.74	- 4 41.9	0.942	1.930	6.9	18.0	4 11	14 12.20	-11 40.9	1.506	2.491	5.4	20.7
4 21	14 2.66	- 3 37.0	0.928	1.927	4.4	17.8	4 21	14 2.86	-11 7.7	1.481	2.486	0.8	20.4
5 1	13 54.36	- 2 44.5	0.936	1.925	8.1	18.0	5 1	13 53.28	-10 33.7	1.483	2.480	4.4	20.6
5 11	13 47.39	- 2 13.0	0.966	1.925	13.3	18.3	5 11	13 44.65	-10 4.5	1.512	2.475	9.0	20.9
5 21	13 42.86	- 2 6.6	1.014	1.926	18.1	18.6	5 21	13 37.89	- 9 44.9	1.564	2.469	13.2	21.1
5 31	13 41.44	- 2 25.6	1.079	1.928	22.2	18.9	5 31	13 33.63	- 9 38.1	1.636	2.463	16.8	21.3
<b>337073</b>	1998 <i>HF</i> <sub>43</sub>		4 22.5 281°55	4°8/18.8	15		<b>404450</b>	2013 <i>GK</i> <sub>107</sub>		4 22.5 26°89	4°4/19.5	18	
3 22	14 26.65	+ 0 2.3	1.960	2.833	11.7	21.4	3 22	14 23.25	- 6 17.7	1.178	2.076	15.9	20.2
4 1	14 20.52	+ 0 36.4	1.869	2.806	8.7	21.2	4 1	14 18.58	- 5 7.4	1.128	2.081	11.3	19.9
4 11	14 12.36	+ 1 8.5	1.803	2.779	5.8	21.0	4 11	14 11.39	- 3 51.7	1.099	2.086	6.6	19.7
4 21	14 2.88	+ 1 33.6	1.764	2.751	4.9	20.8	4 21	14 2.75	- 2 39.8	1.095	2.093	4.5	19.6
5 1	13 53.00	+ 1 46.6	1.752	2.723	7.1	20.9	5 1	13 54.07	- 1 41.5	1.114	2.099	7.9	19.8
5 11	13 43.77	+ 1 43.8	1.768	2.694	10.6	21.1	5 11	13 46.72	- 1 4.0	1.156	2.107	12.5	20.1
5 21	13 36.05	+ 1 23.7	1.806	2.665	14.0	21.2	5 21	13 41.67	- 0 50.6	1.218	2.115	16.8	20.4
5 31	13 30.49	+ 0 46.2	1.865	2.636	17.1	21.4	5 31	13 39.46	- 1 1.5	1.298	2.123	20.4	20.6
<b>177069</b>	2003 <i>FR</i> <sub>19</sub>		4 22.5 156°21	0°2/22.7	18		<b>159980</b>	2006 <i>BP</i> <sub>179&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>247819</b>	2003 <i>SM</i> <sub>154</sub>		4 22.5 220°24	0°2/22.7	17		<b>503055</b>	2015 <i>FB</i> <sub>168</sub>		4 22.5 305°04	1°2/21.5	17	
3 22	14 25.19	-16 2.5	1.767	2.627	13.4	20.3	3 22	14 23.06	-10 31.0	1.987	2.857	11.7	21.4
4 1	14 19.53	-15 17.3	1.687	2.621	9.7	20.1	4 1	14 17.76	-10 2.7	1.915	2.855	8.3	21.2
4 11	14 11.81	-14 18.0	1.631	2.614	5.4	19.8	4 11	14 10.73	-9 27.9	1.868	2.853	4.5	20.9
4 21	14 2.81	-13 8.6	1.602	2.606	0.8	19.4	4 21	14 2.69	-8 50.4	1.848	2.852	1.2	20.7
5 1	13 53.60	-11 55.2	1.600	2.598	3.9	19.7	5 1	13 54.50	-8 14.7	1.856	2.850	4.1	20.9
5 11	13 45.29	-10 45.4	1.626	2.590	8.5	19.9	5 11	13 47.10	-7 45.4	1.891	2.848	8.0	21.1
5 21	13 38.72	-9 45.6	1.677	2.581	12.6	20.1	5 21	13 41.19	-7 26.1	1.951	2.847	11.5	21.3
5 31	13 34.51	-9 0.7	1.748	2.571	16.1	20.3	5 31	13 37.29	-7 19.1	2.033	2.845	14.5	21.5
<b>381843</b>	2009 <i>WQ</i> <sub>122</sub>		4 22.5 259°78	1°4/21.4	17		<b>10072</b>	Uruguay		4 22.5 72°78	2°5/24.1	18	
3 22	14 24.39	-10 28.8	1.833	2.705	12.5	21.4	3 22	14 28.12	-19 18.6	1.333	2.195	16.8	17.6
4 1	14 18.90	-9 56.8	1.754	2.695	8.9	21.2	4 1	14 22.02	-19 18.1	1.277	2.207	12.5	17.4
4 11	14 11.44	-9 17.3	1.700	2.686	4.8	20.9	4 11	14 13.28	-18 59.8	1.241	2.219	7.6	17.1
4 21	14 2.76	-8 34.5	1.672	2.676	1.4	20.6	4 21	14 3.03	-18 25.8	1.230	2.231	3.1	16.9
5 1	13 53.86	-7 53.4	1.672	2.666	4.5	20.8	5 1	13 52.71	-17 41.3	1.244	2.243	4.5	17.0
5 11	13 45.75	-7 19.4	1.699	2.656	8.7	21.1	5 11	13 43.77	-16 54.1	1.283	2.255	9.3	17.3
5 21	13 39.28	-6 56.7	1.750	2.645	12.6	21.3	5 21	13 37.22	-16 11.8	1.345	2.267	13.8	17.6
5 31	13 35.02	-6 48.1	1.821	2.635	15.9	21.5	5 31	13 33.65	-15 40.5	1.427	2.279	17.5	17.9
<b>248350</b>	2005 <i>QE</i> <sub>125</sub>		4 22.5 310°02	1°6/21.0	18		<b>86046</b>	1999 <i>OY</i> <sub>2</sub>		4 22.5 282°73	1°8/24.7	18	R
3 22	14 20.84	-10 1.9	1.940	2.815	11.7	20.3	3 22	14 22.07	-22 43.0	2.571	3.397	10.8	19.8
4 1	14 16.32	-9 20.2	1.854	2.797	8.3	20.1	4 1	14 16.98	-21 48.8	2.454	3.364	8.2	19.6
4 11	14 10.01	-8 31.1	1.793	2.780	4.5	19.8	4 11	14 10.32	-20 37.8	2.362	3.331	5.2	19.3
4 21	14 2.58	-7 38.7	1.759	2.762	1.6	19.5	4 21	14 2.66	-19 12.2	2.298	3.297	2.3	19.1
5 1	13 54.89	-6 48.6	1.753	2.745	4.6	19.7	5 1	13 54.72	-17 36.0	2.265	3.262	3.0	19.0
5 11	13 47.87	-6 6.3	1.773	2.728	8.6	19.9	5 11	13 47.29	-15 55.6	2.262	3.227	6.3	19.2
5 21	13 42.31	-5 36.2	1.817	2.711	12.3	20.1	5 21	13 41.05	-14 17.4	2.286	3.192	9.6	19.3
5 31	13 38.75	-5 20.9	1.881	2.695	15.5	20.3	5 31	13 36.51	-12 47.5	2.336	3.156	12.6	19.5
<b>51357</b>	2000 <i>RM</i> <sub>88</sub>		4 22.5 280°55	1°2/24.5	18	R	<b>307778</b>	2003 <i>WY</i> <sub>63</sub>		4 22.5 186°89	1°0/21.7	18	
3 22	14 15.40	-20 4.3	4.337	5.166	6.7	19.5	3 22	14 27.06	-11 27.2	1.945	2.808	12.3	21.3
4 1	14 11.65	-19 44.9	4.248	5.161	5.0	19.3	4 1	14 20.65	-10 57.0	1.871	2.808	8.7	21.1
4 11	14 7.13	-19 18.8	4.185	5.156	3.1	19.2	4 11	14 12.35	-10 19.2	1.822	2.807	4.7	20.9
4 21	14 2.18	-18 47.1	4.151	5.150	1.4	19.0	4 21	14 2.93	-9 37.3	1.801	2.806	1.0	20.6
5 1	13 57.17	-18 11.7	4.148	5.145	1.8	19.1	5 1	13 53.35	-8 56.2	1.809	2.804	4.1	20.8
5 11	13 52.47	-17 34.9	4.174	5.139	3.7	19.2	5 11	13 44.64	-8 20.9	1.845	2.801	8.2	21.0
5 21	13 48.43	-16 58.9	4.228	5.134	5.5	19.3	5 21	13 37.56	-7 55.4	1.905	2.798	11.9	21.3
5 31	13 45.29	-16 26.0	4.307	5.129	7.3	19.5	5 31	13 32.67	-7 42.6	1.987	2.794	15.0	21.5
<b>123880</b>	2001 <i>DG</i> <sub>35</sub>		4 22.5 184°86	5°5/16.9	17		<b>468571</b>	2007 <i>DW</i> <sub>71</sub>		4 22.5 2°45	7°9/15.2	17	
3 22	14 22.78	+ 2 1.6	2.128	3.003	10.8	20.2	3 22	14 20.20	+ 2 37.3	1.459	2.354	13.6	21.1
4 1	14 17.38	+ 3 13.0	2.068	3.004	8.1	20.0	4 1	14 16.08	+ 4 34.6	1.410	2.353	10.4	20.9
4 11	14 10.44	+ 4 21.2	2.034	3.003	5.9	19.9	4 11	14 9.92	+ 6 27.7	1.384	2.353	8.2	20.7
4 21	14 2.62	+ 5 20.1	2.028	3.003	5.7	19.9	4 21	14 2.60	+ 8 5.7	1.384	2.353	8.4	20.7
5 1	13 54.74	+ 6 4.3	2.050	3.002	7.6	20.0	5 1	13 55.21	+ 9 19.2	1.407	2.354	10.9	20.9
5 11	13 47.62	+ 6 30.1	2.097	3.001	10.3	20.2	5 11	13 48.84	+ 10 2.5	1.454	2.355	14.1	21.1
5 21	13 41.88	+ 6 36.4	2.167	2.999	13.0	20.3	5 21	13 44.29	+ 10 14.9	1.520	2.357	17.3	21.3
5 31	13 37.97	+ 6 23.7	2.256	2.997	15.3	20.5	5 31	13 42.08	+ 9 58.5	1.602	2.360	19.9	21.5
<b>243328</b>	2008 <i>SX</i> <sub>243</sub>		4 22.5 92°31	1°5/23.5	18		<b>26632</b>	2000 <i>HS</i> <sub>30</sub>		4 22.5 120°12	1°5/23.8	18	
3 22	14 28.76	-17 11.7	1.348	2.214	16.4	21.0	3 22	14 25.26	-19 11.1	1.814	2.664	13.6	17.5
4 1	14 22.42	-17 3.6	1.290	2.225	12.0	20.7	4 1	14 19.43	-18 40.7	1.749	2.674	10.0	17.3
4 11	14 13.48	-16 39.8	1.254	2.235	7.0	20.5	4 11	14 11.67	-17 55.2	1.707	2.684	5.9	17.1
4 21	14 3.04	-16 3.3	1.243	2.246	2.0	20.2	4 21	14 2.83	-16 57.9	1.692	2.694	2.0	16.8
5 1	13 52.53	-15 19.5	1.258	2.257	4.4	20.4	5 1	13 53.94	-15 54.1	1.705	2.703	3.6	17.0
5 11	13 43.38	-14 36.1	1.298	2.268	9.4	20.7	5 11	13 46.05	-14 50.5	1.745	2.712	7.6	17.2
5 21	13 36.60	-13 59.9	1.360	2.278	13.9	21.0	5 21	13 39.93	-13 53.3	1.810	2.721	11.4	17.5
5 31	13 32.78	-13 36.0	1.443	2.288	17.7	21.2	5 31	13 36.07	-13 7.6	1.897	2.729	14.6	17.7
<b>350146</b>	2011 <i>SD</i> <sub>79</sub>		4 22.5 84°91	2°2/20.1	17		<b>73712</b>	1992 <i>RB</i> <sub>4</sub>		4 22.5 188°12	1°1/21.6	16	
3 22	14 20.25	- 8 24.3	2.223	3.097	10.5	21.1	3 22	14 26.21	-11 48.8	1.920	2.784	12.3	20.5
4 1	14 15.55	- 7 21.2	2.158	3.101	7.4	20.9	4 1	14 20.06	-11 4.8	1.846	2.783	8.8	20.2
4 11	14 9.42	- 6 13.1	2.119	3.105	4.1	20.7	4 11	14 12.03	-10 12.1	1.797	2.782	4.8	20.0
4 21	14 2.50	- 5 4.8	2.109	3.108	2.2	20.5	4 21	14 2.89	- 9 14.8	1.777	2.781	1.1	19.7
5 1	13 55.53	- 4 1.8	2.127	3.112	4.6	20.7	5 1	13 53.61	- 8 18.7	1.784	2.778	4.3	20.0
5 11	13 49.26	- 3 9.1	2.172	3.116	7.9	20.9	5 11	13 45.20	- 7 29.5	1.820	2.775	8.4	20.2
5 21	13 44.28	- 2 30.0	2.242	3.120	10.9	21.1	5 21	13 38.43	- 6 51.7	1.880	2.771	12.1	20.4
5 31	13 41.01	- 2 6.3	2.334	3.124	13.5	21.3	5 31	13 33.82	- 6 28.5	1.962	2.767	15.2	20.6
<b>301619</b>	2010 <i>DJ</i> <sub>75</sub>		4 22.5 273°45	1°9/21.2	17		<b>51132</b>	2000 <i>HB</i> <sub>42</sub>		4 22.5 218°21	0°7/23.1	18	
3 22	14 25.50	-11 2.2	1.382	2.264	15.1	20.7	3 22	14 22.92	-16 11.8	2.259	3.111	11.2	19.1
4 1	14 20.29	-10 10.9	1.302	2.248	10.8	20.4	4 1	14 17.56	-15 49.1	2.178	3.107	8.1	18.9
4 11	14 12.48	- 9 7.2	1.244	2.231	5.9	20.1	4 11	14 10.61	-15 16.3	2.123	3.103	4.6	18.7
4 21	14 2.94	- 7 57.2	1.211	2.214	1.9	19.8	4 21	14 2.70	-14 36.0	2.095	3.099	1.0	18.4
5 1	13 52.97	- 6 49.0	1.203	2.197	5.9	20.0	5 1	13 54.64	-13 51.9	2.096	3.094	3.1	18.6
5 11	13 43.98	- 5 51.5	1.221	2.180	11.1	20.2	5 11	13 47.27	-13 8.6	2.125	3.090	6.7	18.8
5 21	13 37.11	- 5 11.4	1.260	2.162	16.0	20.4	5 21	13 41.24	-12 30.7	2.181	3.085	10.1	19.0
5 31	13 33.11	- 4 52.5	1.317	2.145	20.1	20.7	5 31	13 37.06	-12 1.6	2.258	3.080	13.0	19.2
<b>303398</b>	2004 <i>XZ</i> <sub>103</sub>		4 22.5 126°66	1°5/23.7	18		<b>497069</b>	2003 <i>UC</i> <sub>174</sub>		4 22.5 242°90	0°7/23.0	17	

EPHEMERIDES

4 22.5

4 22.5

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>268935</b>	2007 <i>DW</i> <sub>20</sub>		4 22.5 195°36	6°8/27.5	17		<b>502072</b>	2015 <i>AM</i> <sub>193</sub>		4 22.5 96°72	1°5/21.3	17	
3 22	14 29.47	-30 41.6	1.929	2.723	15.1	20.8	3 22	14 23.95	-10 28.9	1.752	2.626	12.8	21.9
4 1	14 22.82	-31 27.3	1.848	2.722	12.4	20.6	4 1	14 18.57	-9 48.5	1.686	2.629	9.1	21.6
4 11	14 13.76	-31 52.8	1.789	2.721	9.6	20.5	4 11	14 11.26	-9 0.7	1.645	2.631	4.9	21.4
4 21	14 3.15	-31 55.8	1.754	2.719	7.3	20.3	4 21	14 2.84	-8 10.0	1.630	2.633	1.6	21.2
5 1	13 52.17	-31 36.6	1.745	2.718	7.0	20.3	5 1	13 54.31	-7 22.2	1.642	2.636	4.7	21.4
5 11	13 42.10	-30 59.4	1.763	2.716	8.8	20.4	5 11	13 46.71	-6 43.1	1.681	2.638	8.8	21.6
5 21	13 33.96	-30 11.2	1.806	2.714	11.6	20.6	5 21	13 40.81	-6 16.7	1.744	2.640	12.6	21.9
5 31	13 28.46	-29 19.8	1.871	2.712	14.4	20.7	5 31	13 37.13	-6 5.3	1.828	2.642	15.8	22.1
<b>463511</b>	2013 <i>QZ</i> <sub>62</sub>		4 22.5 256°25	3°6/25.0	17		<b>285768</b>	2000 <i>UP</i> <sub>61</sub>		4 22.5 163°49	2°2/24.3	16	
3 22	14 26.80	-22 16.1	1.728	2.568	14.6	21.0	3 22	14 26.35	-21 0.7	1.717	2.563	14.4	20.8
4 1	14 20.94	-22 26.3	1.645	2.560	11.2	20.7	4 1	14 20.41	-20 28.7	1.645	2.567	10.8	20.6
4 11	14 12.73	-22 19.9	1.583	2.552	7.4	20.5	4 11	14 12.33	-19 38.6	1.596	2.570	6.6	20.4
4 21	14 3.02	-21 56.9	1.548	2.543	4.0	20.2	4 21	14 2.99	-18 33.3	1.573	2.573	2.7	20.1
5 1	13 52.95	-21 20.2	1.539	2.534	4.5	20.3	5 1	13 53.54	-17 18.4	1.578	2.576	3.8	20.2
5 11	13 43.77	-20 35.5	1.556	2.525	8.3	20.4	5 11	13 45.11	-16 1.8	1.609	2.578	8.0	20.5
5 21	13 36.49	-19 49.6	1.599	2.516	12.2	20.7	5 21	13 38.59	-14 51.1	1.666	2.580	12.1	20.7
5 31	13 31.79	-19 9.2	1.662	2.507	15.8	20.9	5 31	13 34.53	-13 52.5	1.744	2.581	15.5	20.9
<b>207028</b>	2004 <i>VN</i> <sub>60</sub>		4 22.5 114°17	2°7/20.9	18		<b>122566</b>	2000 <i>RM</i> <sub>6</sub>		4 22.5 157°30	3°2/25.2	18	
3 22	14 28.88	-6 51.1	1.478	2.356	14.5	20.2	3 22	14 28.22	-22 43.3	2.244	3.066	12.3	20.6
4 1	14 22.30	-6 28.8	1.419	2.363	10.3	20.0	4 1	14 21.41	-22 59.2	2.168	3.073	9.4	20.4
4 11	14 13.37	-6 3.1	1.384	2.369	5.8	19.7	4 11	14 12.78	-23 1.7	2.116	3.078	6.3	20.3
4 21	14 3.09	-5 38.6	1.374	2.375	2.7	19.6	4 21	14 3.05	-22 51.0	2.092	3.084	3.6	20.1
5 1	13 52.73	-5 20.8	1.391	2.381	5.9	19.8	5 1	13 53.17	-22 28.9	2.096	3.089	3.9	20.1
5 11	13 43.55	-5 14.2	1.433	2.387	10.3	20.0	5 11	13 44.07	-21 59.7	2.129	3.093	6.8	20.3
5 21	13 36.50	-5 21.4	1.498	2.392	14.4	20.3	5 21	13 36.54	-21 28.1	2.189	3.097	9.9	20.5
5 31	13 32.14	-5 43.4	1.583	2.397	17.8	20.5	5 31	13 31.11	-20 59.0	2.272	3.100	12.6	20.7
<b>308624</b>	2005 <i>XN</i> <sub>11</sub>		4 22.5 55°76	3°7/18.8	17		<b>20051</b>	1993 <i>FE</i> <sub>26</sub>		4 22.5 87°55	0°6/21.9	18	
3 22	14 21.20	-1 35.2	2.403	3.278	9.8	20.4	3 22	14 23.56	-13 59.8	1.846	2.712	12.7	19.2
4 1	14 16.14	-0 54.7	2.341	3.280	7.0	20.2	4 1	14 18.09	-13 3.8	1.791	2.729	9.0	19.1
4 11	14 9.75	-0 15.2	2.305	3.283	4.5	20.1	4 11	14 10.89	-11 57.4	1.761	2.746	4.8	18.8
4 21	14 2.60	+0 19.2	2.296	3.285	3.7	20.0	4 21	14 2.78	-10 45.7	1.758	2.763	0.7	18.6
5 1	13 55.40	+0 44.5	2.316	3.288	5.6	20.2	5 1	13 54.73	-9 35.2	1.784	2.780	3.9	18.8
5 11	13 48.85	+0 57.8	2.363	3.290	8.2	20.3	5 11	13 47.64	-8 32.1	1.836	2.796	8.0	19.1
5 21	13 43.50	+0 57.7	2.435	3.293	10.9	20.5	5 21	13 42.21	-7 41.5	1.914	2.812	11.5	19.4
5 31	13 39.77	+0 43.9	2.527	3.296	13.2	20.7	5 31	13 38.86	-7 6.2	2.013	2.828	14.5	19.6
<b>183286</b>	2002 <i>TP</i> <sub>304</sub>		4 22.5 226°00	3°3/19.8	17		<b>410764</b>	2009 <i>DC</i> <sub>120</sub>		4 22.5 10°69	1°8/21.4	17	
3 22	14 25.13	-5 55.6	1.805	2.681	12.4	21.6	3 22	14 22.21	-11 30.4	1.138	2.033	16.6	20.6
4 1	14 19.41	-5 2.8	1.731	2.674	8.8	21.3	4 1	14 18.06	-10 43.5	1.083	2.034	11.8	20.3
4 11	14 11.73	-4 6.1	1.683	2.667	5.2	21.1	4 11	14 11.24	-9 44.4	1.048	2.037	6.4	20.0
4 21	14 2.88	-3 10.9	1.662	2.660	3.3	21.0	4 21	14 2.85	-8 40.1	1.036	2.040	1.8	19.7
5 1	13 53.83	-2 23.4	1.669	2.652	6.0	21.1	5 1	13 54.33	-7 39.8	1.048	2.044	5.9	20.0
5 11	13 45.64	-1 49.2	1.701	2.643	9.9	21.3	5 11	13 47.12	-6 52.3	1.083	2.049	11.3	20.3
5 21	13 39.10	-1 31.4	1.758	2.635	13.5	21.5	5 21	13 42.27	-6 23.5	1.138	2.055	16.1	20.6
5 31	13 34.79	-1 31.3	1.834	2.626	16.6	21.7	5 31	13 40.37	-6 16.0	1.211	2.062	20.1	20.9
<b>403809</b>	2011 <i>UU</i> <sub>103</sub>		4 22.5 150°61	0°5/22.1	18		<b>192777</b>	1999 <i>UU</i> <sub>17</sub>		4 22.5 248°76	0°6/22.0	17	
3 22	14 28.64	-12 39.7	1.834	2.695	13.0	21.9	3 22	14 24.25	-12 8.9	1.966	2.832	12.0	21.1
4 1	14 21.79	-12 13.8	1.769	2.704	9.3	21.7	4 1	14 18.73	-11 44.2	1.887	2.825	8.6	20.8
4 11	14 12.97	-11 39.1	1.729	2.713	5.0	21.5	4 11	14 11.36	-11 11.4	1.833	2.817	4.7	20.6
4 21	14 3.04	-10 59.3	1.717	2.721	0.7	21.2	4 21	14 2.87	-10 33.9	1.806	2.810	0.8	20.3
5 1	13 53.04	-10 19.0	1.733	2.729	4.0	21.4	5 1	13 54.18	-9 56.2	1.807	2.803	3.9	20.5
5 11	13 44.05	-9 43.8	1.777	2.736	8.2	21.7	5 11	13 46.25	-9 23.1	1.835	2.795	8.0	20.7
5 21	13 36.86	-9 17.8	1.846	2.742	12.0	21.9	5 21	13 39.85	-8 58.8	1.888	2.787	11.6	20.9
5 31	13 31.99	-9 4.0	1.936	2.747	15.2	22.2	5 31	13 35.54	-8 46.3	1.963	2.779	14.8	21.1
<b>255731</b>	2006 <i>QO</i> <sub>135</sub>		4 22.5 269°25	4°6/18.8	17		<b>34618</b>	2000 <i>UX</i> <sub>49</sub>		4 22.5 265°83	4°7/18.3	18	
3 22	14 24.27	-4 10.4	1.574	2.459	13.4	20.4	3 22	14 24.81	+2 40.1	2.414	3.281	10.0	18.8
4 1	14 19.08	-2 58.8	1.500	2.445	9.7	20.2	4 1	14 18.81	+3 7.2	2.336	3.267	7.5	18.7
4 11	14 11.68	-1 43.0	1.449	2.431	6.0	19.9	4 11	14 11.30	+3 30.1	2.283	3.252	5.4	18.5
4 21	14 2.90	-0 30.6	1.424	2.417	4.7	19.8	4 21	14 2.86	+3 44.7	2.259	3.238	4.8	18.4
5 1	13 53.82	+0 30.3	1.425	2.402	7.6	19.9	5 1	13 54.25	+3 47.6	2.263	3.223	6.5	18.5
5 11	13 45.65	+1 12.7	1.452	2.388	11.7	20.1	5 11	13 46.26	+3 36.5	2.294	3.208	9.1	18.6
5 21	13 39.30	+1 33.1	1.500	2.373	15.6	20.3	5 21	13 39.50	+3 10.8	2.350	3.192	11.8	18.8
5 31	13 35.41	+1 30.5	1.566	2.358	19.0	20.5	5 31	13 34.48	+2 31.0	2.427	3.177	14.1	18.9
<b>319813</b>	2006 <i>VE</i> <sub>61</sub>		4 22.5 292°54	2°4/20.9	17		<b>241676</b>	2000 <i>QW</i> <sub>158</sub>		4 22.5 212°48	0°8/21.8	17	
3 22	14 26.42	-7 33.8	1.532	2.412	14.0	20.4	3 22	14 26.57	-13 11.7	2.143	2.999	11.6	21.5
4 1	14 20.76	-7 13.5	1.453	2.398	10.0	20.2	4 1	14 20.26	-12 19.7	2.056	2.990	8.3	21.3
4 11	14 12.69	-6 48.4	1.397	2.383	5.6	19.9	4 11	14 12.17	-11 17.5	1.996	2.979	4.5	21.1
4 21	14 3.04	-6 23.1	1.366	2.368	2.4	19.6	4 21	14 2.98	-10 9.0	1.964	2.968	0.8	20.8
5 1	13 53.02	-6 2.9	1.362	2.353	5.7	19.8	5 1	13 53.60	-8 59.8	1.961	2.956	3.9	21.0
5 11	13 43.90	-5 53.0	1.383	2.339	10.4	20.0	5 11	13 44.94	-7 55.9	1.988	2.942	7.8	21.2
5 21	13 36.71	-5 56.7	1.427	2.325	14.7	20.2	5 21	13 37.76	-7 2.4	2.041	2.928	11.4	21.4
5 31	13 32.18	-6 16.0	1.489	2.310	18.5	20.4	5 31	13 32.60	-6 22.9	2.116	2.912	14.5	21.6
<b>283011</b>	2007 <i>UH</i> <sub>116</sub>		4 22.5 146°46	3°3/19.6	18		<b>300212</b>	2006 <i>WZ</i> <sub>153</sub>		4 22.5 134°18	0°1/22.5	17	

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>306840</b>	2001 <i>SD</i> <sub>46</sub>		4 22.5 270°65	2°6/20.7	16		<b>465099</b>	2006 <i>UY</i> <sub>236</sub>		4 22.5 157°48	1°3/21.7	16	
3 22	14 26.48	— 8 57.9	1.466	2.346	14.5	21.2	3 22	14 29.34	— 9 20.9	1.838	2.703	12.8	22.1
4 1	14 20.97	— 8 8.1	1.380	2.325	10.4	20.9	4 1	14 22.37	— 9 15.1	1.770	2.708	9.1	21.9
4 11	14 12.91	— 7 8.8	1.318	2.305	5.8	20.6	4 11	14 13.37	— 9 4.5	1.728	2.712	5.0	21.7
4 21	14 3.12	— 6 5.9	1.282	2.283	2.6	20.3	4 21	14 3.19	— 8 52.1	1.712	2.716	1.3	21.4
5 1	13 52.85	— 5 7.2	1.271	2.262	6.2	20.5	5 1	13 52.87	— 8 41.4	1.725	2.719	4.4	21.6
5 11	13 43.47	— 4 20.5	1.286	2.240	11.2	20.7	5 11	13 43.52	— 8 36.3	1.766	2.723	8.5	21.9
5 21	13 36.10	— 3 51.6	1.323	2.217	15.9	20.9	5 21	13 35.94	— 8 39.6	1.832	2.725	12.2	22.1
5 31	13 31.50	— 3 43.4	1.378	2.195	19.9	21.1	5 31	13 30.70	— 8 53.2	1.919	2.727	15.4	22.3
<b>331111</b>	2010 <i>RT</i> <sub>52</sub>		4 22.5 123°26	8°2/15.1	18		<b>389757</b>	2011 <i>SM</i> <sub>186</sub>		4 22.5 167°64	2°0/24.2	17	
3 22	14 26.57	— 2 23.5	1.194	2.089	16.0	20.6	3 22	14 26.72	— 18 30.1	2.435	3.270	11.0	20.9
4 1	14 20.82	+ 0 54.0	1.154	2.102	11.7	20.3	4 1	14 20.26	— 18 53.4	2.355	3.271	8.2	20.7
4 11	14 12.59	+ 4 13.5	1.139	2.114	8.6	20.2	4 11	14 12.14	— 19 7.5	2.300	3.272	5.1	20.5
4 21	14 3.04	+ 7 16.3	1.151	2.126	8.9	20.2	4 21	14 3.03	— 19 12.9	2.274	3.273	2.3	20.3
5 1	13 53.61	+ 9 46.0	1.189	2.137	12.2	20.5	5 1	13 53.72	— 19 11.1	2.277	3.273	3.2	20.4
5 11	13 45.64	+ 11 33.1	1.249	2.148	16.2	20.7	5 11	13 45.06	— 19 4.9	2.310	3.274	6.3	20.6
5 21	13 40.04	+ 12 36.4	1.329	2.158	19.8	21.0	5 21	13 37.76	— 18 57.7	2.369	3.274	9.3	20.8
5 31	13 37.29	+ 12 59.9	1.423	2.167	22.6	21.2	5 31	13 32.32	— 18 52.9	2.452	3.275	12.0	20.9
<b>133520</b>	2003 <i>SO</i> <sub>308</sub>		4 22.5 321°85	7°3/28.7	18		<b>469079</b>	2015 <i>BR</i> <sub>159</sub>		4 22.6 269°96	2°8/20.0	17	
3 22	14 23.42	— 32 43.9	1.746	2.544	16.2	19.0	3 22	14 22.67	— 7 40.5	1.805	2.684	12.2	20.7
4 1	14 18.70	— 33 1.1	1.659	2.534	13.5	18.8	4 1	14 17.69	— 6 39.5	1.731	2.676	8.7	20.4
4 11	14 11.59	— 32 53.2	1.592	2.524	10.6	18.6	4 11	14 10.84	— 5 32.2	1.682	2.668	4.9	20.2
4 21	14 2.93	— 32 18.3	1.548	2.514	8.1	18.4	4 21	14 2.85	— 4 24.5	1.660	2.659	2.9	20.0
5 1	13 53.92	— 31 18.0	1.529	2.505	7.4	18.4	5 1	13 54.68	— 3 23.2	1.665	2.651	5.7	20.2
5 11	13 45.85	— 29 58.6	1.535	2.496	9.1	18.4	5 11	13 47.32	— 2 34.4	1.696	2.642	9.6	20.4
5 21	13 39.74	— 28 29.1	1.566	2.488	12.1	18.6	5 21	13 41.55	— 2 2.0	1.751	2.633	13.2	20.6
5 31	13 36.30	— 26 59.3	1.617	2.480	15.3	18.8	5 31	13 37.92	— 1 48.2	1.825	2.625	16.4	20.8
<b>498975</b>	2009 <i>BM</i> <sub>140</sub>		4 22.5 97°30	4°5/18.1	17		<b>106491</b>	2000 <i>WG</i> <sub>28</sub>		4 22.6 234°46	6°2/14.9	18	
3 22	14 21.75	— 0 56.9	2.100	2.979	10.8	21.9	3 22	14 22.67	+ 9 39.1	2.819	3.676	9.1	20.1
4 1	14 16.69	+ 0 6.0	2.043	2.983	7.9	21.7	4 1	14 17.12	+ 10 33.8	2.750	3.662	7.4	20.0
4 11	14 10.12	+ 1 7.6	2.011	2.987	5.3	21.5	4 11	14 10.32	+ 11 21.3	2.708	3.649	6.3	19.9
4 21	14 2.71	+ 2 2.5	2.007	2.992	4.7	21.5	4 21	14 2.77	+ 11 56.9	2.692	3.634	6.4	19.8
5 1	13 55.26	+ 2 45.3	2.030	2.996	6.7	21.6	5 1	13 55.12	+ 12 17.2	2.705	3.620	7.7	19.9
5 11	13 48.57	+ 3 12.3	2.079	3.000	9.5	21.8	5 11	13 48.00	+ 12 20.1	2.743	3.604	9.6	20.0
5 21	13 43.26	+ 3 21.8	2.152	3.004	12.3	22.0	5 21	13 41.93	+ 12 5.3	2.805	3.589	11.6	20.1
5 31	13 39.76	+ 3 14.0	2.245	3.008	14.8	22.2	5 31	13 37.34	+ 11 34.0	2.886	3.573	13.3	20.2
<b>34799</b>	2001 <i>SQ</i> <sub>48</sub>		4 22.5 279°09	3°0/20.3	18		<b>437234</b>	2012 <i>XM</i> <sub>17</sub>		4 22.6 305°50	2°9/20.2	18	
3 22	14 24.83	— 6 41.1	1.672	2.551	13.0	19.7	3 22	14 24.69	— 4 21.9	2.053	2.927	11.2	20.7
4 1	14 19.42	— 6 1.0	1.594	2.539	9.3	19.5	4 1	14 18.91	— 4 2.8	1.982	2.923	8.0	20.5
4 11	14 11.87	— 5 16.1	1.541	2.526	5.3	19.2	4 11	14 11.43	— 3 43.0	1.936	2.919	4.7	20.3
4 21	14 2.97	— 4 31.9	1.513	2.513	3.0	19.0	4 21	14 2.93	— 3 26.5	1.918	2.915	3.0	20.1
5 1	13 53.79	— 3 54.3	1.513	2.500	5.9	19.2	5 1	13 54.29	— 3 16.8	1.928	2.912	5.2	20.3
5 11	13 45.47	— 3 28.9	1.538	2.487	10.1	19.4	5 11	13 46.41	— 3 17.2	1.964	2.908	8.6	20.5
5 21	13 38.89	— 3 19.1	1.586	2.474	14.1	19.6	5 21	13 39.99	— 3 29.4	2.026	2.905	11.9	20.7
5 31	13 34.70	— 3 26.6	1.654	2.461	17.5	19.8	5 31	13 35.54	— 3 53.9	2.108	2.902	14.7	20.9
<b>200833</b>	2001 <i>XY</i> <sub>238</sub>		4 22.5 186°74	4°4/25.9	16		<b>206446</b>	2003 <i>SU</i> <sub>260</sub>		4 22.6 308°38	4°3/24.9	17	
3 22	14 28.31	— 25 22.3	1.699	2.526	15.4	20.1	3 22	14 26.63	— 21 41.7	1.348	2.204	17.0	20.6
4 1	14 22.01	— 25 21.1	1.621	2.526	12.0	19.9	4 1	14 21.46	— 22 7.5	1.265	2.190	13.1	20.3
4 11	14 13.33	— 24 59.2	1.565	2.525	8.2	19.7	4 11	14 13.35	— 22 15.0	1.204	2.176	8.7	20.0
4 21	14 3.17	— 24 16.7	1.534	2.524	5.0	19.5	4 21	14 3.24	— 22 3.1	1.166	2.162	4.8	19.7
5 1	13 52.77	— 23 17.3	1.530	2.523	5.0	19.5	5 1	13 52.53	— 21 34.1	1.152	2.149	5.5	19.7
5 11	13 43.41	— 22 8.1	1.553	2.521	8.4	19.6	5 11	13 42.84	— 20 54.6	1.163	2.136	9.9	19.9
5 21	13 36.10	— 20 57.6	1.601	2.518	12.2	19.9	5 21	13 35.48	— 20 12.8	1.195	2.123	14.6	20.1
5 31	13 31.46	— 19 53.6	1.670	2.515	15.7	20.1	5 31	13 31.32	— 19 37.0	1.247	2.111	18.8	20.4
<b>391711</b>	2008 <i>CK</i> <sub>15</sub>		4 22.5 40°26	0°5/22.1	17		<b>208660</b>	2002 <i>FU</i> <sub>31</sub>		4 22.6 108°33	0°3/22.7	18	
3 22	14 22.10	— 12 22.6	2.085	2.951	11.4	20.9	3 22	14 30.39	— 13 37.8	1.539	2.404	14.8	20.5
4 1	14 17.01	— 11 59.6	2.020	2.958	8.1	20.7	4 1	14 23.37	— 13 39.1	1.480	2.416	10.7	20.3
4 11	14 10.33	— 11 29.5	1.980	2.964	4.4	20.5	4 11	14 14.01	— 13 30.5	1.444	2.428	5.9	20.0
4 21	14 2.75	— 10 55.3	1.967	2.971	0.7	20.3	4 21	14 3.29	— 13 14.6	1.435	2.439	1.0	19.7
5 1	13 55.10	— 10 21.2	1.982	2.978	3.5	20.5	5 1	13 52.50	— 12 55.6	1.452	2.450	4.2	19.9
5 11	13 48.23	— 9 51.6	2.024	2.985	7.2	20.7	5 11	13 42.93	— 12 38.4	1.496	2.461	8.9	20.2
5 21	13 42.77	— 9 29.9	2.092	2.993	10.6	21.0	5 21	13 35.52	— 12 27.8	1.564	2.472	13.1	20.5
5 31	13 39.20	— 9 18.8	2.182	3.001	13.4	21.2	5 31	13 30.81	— 12 27.1	1.653	2.482	16.5	20.8
<b>253113</b>	2002 <i>UN</i> <sub>38</sub>		4 22.5 85°69	0°9/21.9	18		<b>95974</b>	2004 <i>LU</i> <sub>17</sub>		4 22.6 299°82	9°3/14.9	18	
3 22	14 28.80	— 11 10.9	1.662	2.530	13.7	20.7	3 22	14 24.76	+ 9 11.7	1.612	2.488	13.6	19.1
4 1	14 21.92	— 10 55.3	1.614	2.552	9.7	20.5	4 1	14 19.41	+ 10 25.9	1.547	2.472	11.1	18.9
4 11	14 13.04	— 10 32.5	1.589	2.574	5.2	20.3	4 11	14 11.88	+ 11 29.6	1.505	2.455	9.5	18.8
4 21	14 3.11	— 10 6.4	1.592	2.596	1.0	20.0	4 21	14 3.01	+ 12 14.0	1.487	2.438	9.7	18.7
5 1	13 53.28	— 9 41.4	1.622	2.617	4.3	20.3	5 1	13 53.90	+ 12 32.1	1.493	2.422	11.7	18.8
5 11	13 44.63	— 9 22.2	1.679	2.639	8.6	20.6	5 11	13 45.69	+ 12 20.6	1.521	2.406	14.6	18.9
5 21	13 37.94	— 9 12.4	1.760	2.659	12.3	20.9	5 21	13 39.30	+ 11 40.4	1.570	2.390	17.6	19.1
5 31	13 33.67	— 9 14.1	1.862	2.680	15.4	21.1	5 31	13 35.34	+ 10 34.8				

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>109902</b>	2001 <i>SH</i> <sub>21</sub>		4 22.6 196°81	2°8/20.3	18		<b>140303</b>	2001 <i>SK</i> <sub>313</sub>		4 22.6 91°50	0°9/21.9	18	
3 22	14 24.69	- 7 7.7	1.804	2.680	12.4	19.8	3 22	14 26.92	- 9 25.9	2.189	3.050	11.1	19.4
4 1	14 19.09	- 6 21.4	1.736	2.679	8.8	19.5	4 1	14 20.37	- 9 30.0	2.124	3.060	7.9	19.2
4 11	14 11.58	- 5 30.6	1.693	2.678	5.0	19.3	4 11	14 12.18	- 9 30.3	2.085	3.069	4.3	19.0
4 21	14 2.97	- 4 40.4	1.677	2.677	2.8	19.2	4 21	14 3.06	- 9 29.1	2.075	3.079	1.0	18.8
5 1	13 54.22	- 3 56.8	1.688	2.675	5.5	19.3	5 1	13 53.88	- 9 28.8	2.094	3.088	3.6	19.0
5 11	13 46.36	- 3 24.7	1.726	2.673	9.4	19.5	5 11	13 45.50	- 9 32.3	2.141	3.097	7.2	19.2
5 21	13 40.15	- 3 7.6	1.788	2.671	13.0	19.8	5 21	13 38.59	- 9 41.7	2.214	3.107	10.4	19.5
5 31	13 36.13	- 3 6.7	1.870	2.669	16.0	20.0	5 31	13 33.62	- 9 58.7	2.310	3.116	13.2	19.7
<b>26598</b>	2000 <i>EV</i> <sub>171</sub>		4 22.6 197°70	5°1/17.9	18		<b>474945</b>	2005 <i>SN</i> <sub>291</sub>		4 22.6 194°94	1°2/21.1	17	
3 22	14 24.17	+ 2 17.8	2.211	3.083	10.6	18.6	3 22	14 20.37	-10 29.8	2.791	3.653	9.0	21.9
4 1	14 18.40	+ 3 2.2	2.148	3.081	7.9	18.5	4 1	14 15.50	- 9 42.2	2.714	3.651	6.3	21.8
4 11	14 11.08	+ 3 42.6	2.110	3.080	5.7	18.3	4 11	14 9.44	- 8 49.1	2.664	3.648	3.4	21.6
4 21	14 2.90	+ 4 14.1	2.100	3.078	5.2	18.3	4 21	14 2.69	- 7 54.1	2.643	3.646	1.2	21.4
5 1	13 54.63	+ 4 32.4	2.118	3.076	7.0	18.4	5 1	13 55.86	- 7 0.9	2.652	3.643	3.4	21.6
5 11	13 47.09	+ 4 35.0	2.162	3.073	9.7	18.5	5 11	13 49.58	- 6 13.5	2.690	3.640	6.3	21.7
5 21	13 40.92	+ 4 21.1	2.230	3.071	12.3	18.7	5 21	13 44.33	- 5 35.0	2.755	3.637	9.0	21.9
5 31	13 36.57	+ 3 51.2	2.318	3.068	14.7	18.9	5 31	13 40.50	- 5 7.5	2.842	3.633	11.3	22.1
<b>412162</b>	2013 <i>GA</i> <sub>84</sub>		4 22.6 15°57	2°9/24.6	17		<b>470166</b>	2006 <i>UH</i> <sub>153</sub>		4 22.6 200°36	1°0/21.4	17	
3 22	14 24.46	-21 22.5	1.305	2.167	17.1	20.7	3 22	14 21.29	-11 44.1	2.539	3.401	9.8	21.9
4 1	14 19.62	-21 0.4	1.239	2.168	12.8	20.4	4 1	14 16.26	-10 53.1	2.461	3.398	6.9	21.7
4 11	14 12.14	-20 16.1	1.193	2.170	8.0	20.1	4 11	14 9.89	- 9 55.1	2.410	3.395	3.7	21.5
4 21	14 3.06	-19 12.3	1.171	2.171	3.5	19.9	4 21	14 2.76	- 8 53.7	2.387	3.391	1.0	21.3
5 1	13 53.77	-17 55.7	1.174	2.173	4.6	19.9	5 1	13 55.52	- 7 53.6	2.395	3.387	3.5	21.5
5 11	13 45.75	-16 36.4	1.201	2.176	9.4	20.2	5 11	13 48.89	- 6 59.2	2.430	3.383	6.7	21.7
5 21	13 40.03	-15 24.0	1.251	2.179	14.1	20.5	5 21	13 43.42	- 6 14.2	2.492	3.378	9.7	21.9
5 31	13 37.26	-14 26.2	1.321	2.182	18.2	20.7	5 31	13 39.52	- 5 41.3	2.577	3.374	12.2	22.0
<b>408303</b>	2013 <i>GO</i> <sub>27</sub>		4 22.6 27°72	4°2/24.7	16		<b>303208</b>	2004 <i>HN</i> <sub>46</sub>		4 22.6 337°28	0°5/22.1	17	
3 22	14 28.56	-20 31.2	1.199	2.063	18.2	20.6	3 22	14 20.58	-13 36.5	1.871	2.742	12.3	20.8
4 1	14 22.80	-21 8.9	1.140	2.069	13.8	20.4	4 1	14 16.19	-12 55.3	1.795	2.735	8.8	20.6
4 11	14 14.00	-21 28.2	1.101	2.075	8.9	20.1	4 11	14 10.02	-12 3.6	1.744	2.729	4.8	20.3
4 21	14 3.32	-21 28.4	1.084	2.081	4.7	19.9	4 21	14 2.78	-11 5.7	1.719	2.723	0.7	20.0
5 1	13 52.37	-21 12.2	1.092	2.089	5.5	19.9	5 1	13 55.38	-10 7.0	1.721	2.718	3.9	20.2
5 11	13 42.85	-20 46.4	1.123	2.097	10.1	20.2	5 11	13 48.74	- 9 13.6	1.750	2.713	8.0	20.4
5 21	13 35.97	-20 19.0	1.176	2.105	14.7	20.5	5 21	13 43.63	- 8 30.7	1.803	2.708	11.8	20.7
5 31	13 32.45	-19 57.5	1.248	2.114	18.7	20.8	5 31	13 40.55	- 8 1.7	1.878	2.704	15.0	20.9
<b>287033</b>	2002 <i>QA</i> <sub>108</sub>		4 22.6 22°44	4°2/26.1	17		<b>20781</b>	2000 <i>RX</i> <sub>38</sub>		4 22.6 251°75	3°4/25.1	17	
3 22	14 25.06	-25 12.4	1.973	2.797	13.7	20.7	3 22	14 26.74	-23 4.0	1.718	2.555	14.8	19.3
4 1	14 19.45	-25 25.1	1.895	2.797	10.7	20.5	4 1	14 21.01	-22 52.4	1.626	2.540	11.4	19.1
4 11	14 11.84	-25 20.9	1.840	2.798	7.5	20.3	4 11	14 12.89	-22 21.4	1.556	2.524	7.5	18.8
4 21	14 3.01	-24 59.6	1.811	2.798	4.7	20.1	4 21	14 3.20	-21 31.5	1.512	2.508	3.9	18.6
5 1	13 53.97	-24 23.9	1.809	2.799	4.7	20.1	5 1	13 53.09	-20 26.8	1.495	2.492	4.4	18.5
5 11	13 45.77	-23 38.8	1.833	2.800	7.4	20.3	5 11	13 43.84	-19 14.3	1.505	2.474	8.4	18.7
5 21	13 39.25	-22 50.4	1.883	2.800	10.7	20.5	5 21	13 36.48	-18 2.4	1.539	2.457	12.6	18.9
5 31	13 35.00	-22 4.9	1.956	2.801	13.7	20.7	5 31	13 31.73	-16 58.8	1.595	2.439	16.4	19.1
<b>251923</b>	1999 <i>VO</i> <sub>195</sub>		4 22.6 233°50	1°0/21.8	17		<b>253867</b>	2004 <i>BB</i> <sub>3</sub>		4 22.6 64°13	1°7/21.4	18	
3 22	14 27.17	-11 26.8	1.934	2.797	12.3	21.3	3 22	14 25.98	-10 23.5	1.433	2.313	14.7	20.8
4 1	14 20.93	-10 57.5	1.847	2.784	8.8	21.1	4 1	14 20.22	- 9 45.9	1.383	2.328	10.4	20.6
4 11	14 12.68	-10 20.1	1.785	2.770	4.8	20.8	4 11	14 12.25	- 9 0.4	1.357	2.343	5.6	20.4
4 21	14 3.14	- 9 37.9	1.751	2.755	1.0	20.5	4 21	14 3.08	- 8 12.7	1.355	2.359	1.7	20.1
5 1	13 53.30	- 8 55.8	1.745	2.740	4.2	20.7	5 1	13 53.95	- 7 29.2	1.380	2.374	5.2	20.4
5 11	13 44.21	- 8 19.1	1.767	2.724	8.5	20.9	5 11	13 46.05	- 6 56.1	1.430	2.389	9.8	20.7
5 21	13 36.73	- 7 52.3	1.814	2.707	12.4	21.1	5 21	13 40.24	- 6 37.4	1.502	2.405	13.8	21.0
5 31	13 31.47	- 7 38.5	1.882	2.689	15.7	21.3	5 31	13 37.00	- 6 34.9	1.595	2.420	17.2	21.2
<b>284610</b>	2007 <i>TP</i> <sub>449</sub>		4 22.6 247°39	5°2/17.1	18		<b>159680</b>	2002 <i>JY</i> <sub>60</sub>		4 22.6 274°35	1°0/23.4	17	
3 22	14 21.26	+ 0 39.0	2.107	2.986	10.7	20.3	3 22	14 23.76	-17 7.2	2.006	2.860	12.3	20.7
4 1	14 16.41	+ 1 55.3	2.044	2.983	8.0	20.1	4 1	14 18.53	-16 44.3	1.911	2.840	9.1	20.5
4 11	14 10.03	+ 3 9.9	2.007	2.979	5.7	19.9	4 11	14 11.38	-16 8.8	1.841	2.821	5.3	20.2
4 21	14 2.76	+ 4 16.6	1.997	2.975	5.4	19.9	4 21	14 2.99	-15 23.1	1.798	2.801	1.4	19.9
5 1	13 55.40	+ 5 9.4	2.014	2.971	7.4	20.0	5 1	13 54.27	-14 31.2	1.783	2.782	3.4	20.0
5 11	13 48.75	+ 5 44.3	2.058	2.967	10.2	20.2	5 11	13 46.22	-13 38.9	1.795	2.762	7.6	20.2
5 21	13 43.44	+ 5 59.5	2.124	2.963	12.9	20.4	5 21	13 39.66	-12 51.8	1.833	2.741	11.4	20.4
5 31	13 39.95	+ 5 55.1	2.209	2.959	15.3	20.5	5 31	13 35.21	-12 14.7	1.893	2.721	14.8	20.6
<b>166150</b>	2002 <i>EA</i> <sub>16</sub>		4 22.6 113°55	2°9/24.7	18		<b>239396</b>	2007 <i>TH</i> <sub>25</sub>		4 22.6 183°49	0°7/23.3	17	
3 22	14 27.40	-21 39.9	1.567	2.413	15.5	20.1	3 22	14 23.67	-16 26.8	2.493	3.339	10.5	21.6
4 1	14 21.31	-21 25.3	1.502	2.423	11.7	19.9	4 1	14 18.01	-16 5.9	2.414	3.339	7.6	21.4
4 11	14 12.91	-20 51.9	1.461	2.433	7.4	19.7	4 11	14 10.89	-15 35.6	2.360	3.339	4.4	21.2
4 21	14 3.16	-20 1.8	1.444	2.443	3.4	19.5	4 21	14 2.91	-14 58.4	2.335	3.339	1.1	20.9
5 1	13 53.34	-19 0.2	1.454	2.452	4.2	19.5	5 1	13 54.82	-14 17.4	2.340	3.338	2.8	21.1
5 11	13 44.69	-17 54.9	1.490	2.461	8.4	19.8	5 11	13 47.37	-13 36.9	2.373	3.336	6.2	21.3
5 21	13 38.14	-16 53.8	1.551	2.470	12.5	20.1	5 21	13 41.18	-13 0.7	2.433	3.335	9.3	21.5
5 31	13 34.25	-16 3.3	1.633	2.478	16.0	20.3	5 31	13 36.69	-12 32.3	2.517	3.332	11.9	21.6
<b>51903</b>	2001 <i>QR</i> <sub>41</sub>		4 22.6 132°42	0°8/21.7	18		<b>74850</b>	1999 <i>TO</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>410255</b>	2007 TV <sub>111</sub>		4 22.6 257°88	2°0/24.0	17		<b>91410</b>	1999 NZ <sub>30</sub>		4 22.6 271°58	5°6/26.7	18	
3 22	14 25.90	-19 39.6	1.557	2.412	15.1	20.7	3 22	14 27.74	-28 20.6	2.060	2.863	13.9	19.5
4 1	14 20.49	-19 16.9	1.473	2.401	11.3	20.4	4 1	14 21.66	-28 48.4	1.955	2.840	11.3	19.3
4 11	14 12.63	-18 36.1	1.412	2.390	6.9	20.2	4 11	14 13.29	-28 58.5	1.872	2.816	8.4	19.1
4 21	14 3.19	-17 39.3	1.377	2.378	2.6	19.9	4 21	14 3.32	-28 48.9	1.815	2.792	6.1	18.9
5 1	13 53.39	-16 31.9	1.367	2.366	4.1	19.9	5 1	13 52.79	-28 20.1	1.785	2.767	5.9	18.8
5 11	13 44.55	-15 22.0	1.384	2.354	8.9	20.2	5 11	13 42.88	-27 36.1	1.782	2.742	8.2	18.9
5 21	13 37.71	-14 17.7	1.424	2.342	13.4	20.4	5 21	13 34.62	-26 43.2	1.804	2.716	11.4	19.1
5 31	13 33.58	-13 26.1	1.485	2.330	17.4	20.6	5 31	13 28.78	-25 48.8	1.849	2.690	14.6	19.2
<b>125714</b>	2001 XS <sub>100</sub>		4 22.6 67°21	1°6/21.4	17		<b>466963</b>	2016 AF <sub>187</sub>		4 22.6 343°78	7°0/27.1	18	
3 22	14 25.80	-9 53.0	1.635	2.510	13.5	19.4	3 22	14 25.55	-28 12.7	1.256	2.096	19.0	19.8
4 1	14 19.90	-9 24.8	1.583	2.526	9.5	19.2	4 1	14 20.82	-28 37.5	1.185	2.091	15.3	19.5
4 11	14 12.02	-8 50.4	1.555	2.541	5.2	19.0	4 11	14 13.05	-28 34.7	1.132	2.088	11.2	19.3
4 21	14 3.07	-8 14.3	1.554	2.557	1.6	18.8	4 21	14 3.28	-28 2.4	1.101	2.084	7.8	19.1
5 1	13 54.16	-7 41.7	1.579	2.573	4.7	19.1	5 1	13 53.10	-27 3.3	1.093	2.082	7.3	19.0
5 11	13 46.33	-7 17.6	1.631	2.589	8.9	19.3	5 11	13 44.21	-25 46.2	1.108	2.079	10.4	19.2
5 21	13 40.37	-7 5.4	1.706	2.605	12.7	19.6	5 21	13 37.90	-24 22.8	1.145	2.078	14.6	19.4
5 31	13 36.75	-7 6.9	1.802	2.621	15.8	19.8	5 31	13 34.94	-23 4.6	1.201	2.077	18.6	19.6
<b>37443</b>	2788 P-L		4 22.6 298°72	1°2/21.5	18		<b>423548</b>	2005 UC <sub>282</sub>		4 22.6 123°62	1°1/21.7	17	
3 22	14 21.57	-10 34.0	2.142	3.011	11.0	19.0	3 22	14 26.20	-10 55.3	2.100	2.962	11.5	21.9
4 1	14 16.78	-10 1.9	2.055	2.995	7.8	18.8	4 1	14 19.86	-10 24.7	2.042	2.978	8.1	21.7
4 11	14 10.34	-9 23.0	1.994	2.979	4.3	18.6	4 11	14 11.91	-9 48.0	2.009	2.993	4.4	21.5
4 21	14 2.87	-8 41.0	1.960	2.963	1.2	18.3	4 21	14 3.09	-9 8.7	2.004	3.008	1.1	21.3
5 1	13 55.16	-8 0.2	1.954	2.948	4.0	18.5	5 1	13 54.27	-8 31.2	2.028	3.022	3.9	21.5
5 11	13 48.08	-7 25.4	1.976	2.932	7.7	18.7	5 11	13 46.33	-7 59.8	2.080	3.035	7.5	21.7
5 21	13 42.32	-7 0.3	2.022	2.917	11.2	18.8	5 21	13 39.92	-7 37.9	2.158	3.048	10.8	22.0
5 31	13 38.42	-6 47.6	2.090	2.901	14.2	19.0	5 31	13 35.47	-7 27.5	2.258	3.061	13.5	22.2
<b>305567</b>	2008 WC <sub>58</sub>		4 22.6 204°17	0°2/22.7	18		<b>342997</b>	2009 BB <sub>69</sub>		4 22.6 128°39	1°4/21.2	17	
3 22	14 26.90	-15 49.3	1.624	2.486	14.3	21.6	3 22	14 22.74	-9 54.1	2.315	3.180	10.4	21.7
4 1	14 20.97	-15 4.6	1.548	2.483	10.3	21.4	4 1	14 17.34	-9 14.6	2.250	3.189	7.3	21.5
4 11	14 12.78	-14 5.1	1.496	2.479	5.8	21.1	4 11	14 10.51	-8 29.8	2.212	3.197	4.0	21.3
4 21	14 3.20	-12 55.1	1.469	2.474	0.9	20.7	4 21	14 2.90	-7 43.5	2.202	3.205	1.4	21.1
5 1	13 53.42	-11 41.3	1.471	2.469	4.2	21.0	5 1	13 55.25	-7 0.0	2.222	3.213	3.9	21.3
5 11	13 44.63	-10 31.8	1.499	2.463	9.0	21.2	5 11	13 48.31	-6 23.5	2.269	3.221	7.2	21.5
5 21	13 37.78	-9 33.6	1.552	2.457	13.3	21.5	5 21	13 42.68	-5 57.0	2.342	3.228	10.2	21.7
5 31	13 33.47	-8 51.4	1.624	2.450	17.0	21.7	5 31	13 38.77	-5 42.5	2.437	3.235	12.8	21.9
<b>470149</b>	2006 UN <sub>88</sub>		4 22.6 95°64	0°1/22.5	18		<b>108967</b>	2001 PA <sub>40</sub>		4 22.6 207°20	1°6/24.3	18	
3 22	14 24.41	-12 41.4	2.284	3.142	10.9	21.0	3 22	14 22.07	-20 13.9	2.347	3.186	11.3	19.5
4 1	14 18.61	-12 37.6	2.213	3.146	7.8	20.8	4 1	14 16.99	-19 41.3	2.265	3.184	8.4	19.3
4 11	14 11.25	-12 27.5	2.167	3.150	4.3	20.6	4 11	14 10.39	-18 55.7	2.207	3.181	5.1	19.1
4 21	14 2.99	-12 13.3	2.150	3.154	0.6	20.3	4 21	14 2.89	-17 59.2	2.178	3.178	2.0	18.8
5 1	13 54.62	-11 57.7	2.161	3.159	3.2	20.5	5 1	13 55.27	-16 56.0	2.177	3.175	3.0	18.9
5 11	13 46.95	-11 44.2	2.201	3.163	6.7	20.7	5 11	13 48.32	-15 51.4	2.205	3.172	6.3	19.1
5 21	13 40.64	-11 35.7	2.267	3.167	9.9	20.9	5 21	13 42.69	-14 50.7	2.259	3.168	9.5	19.3
5 31	13 36.16	-11 34.8	2.355	3.171	12.7	21.1	5 31	13 38.84	-13 58.4	2.336	3.165	12.3	19.5
<b>98797</b>	2000 YS <sub>111</sub>		4 22.6 62°17	1°1/21.9	18		<b>71838</b>	2000 UK <sub>70</sub>		4 22.6 353°31	2°9/24.2	18	
3 22	14 27.27	-11 24.6	1.356	2.236	15.5	19.1	3 22	14 25.24	-18 46.9	1.185	2.059	17.6	18.4
4 1	14 21.29	-11 1.7	1.305	2.249	11.0	18.8	4 1	14 20.51	-19 2.9	1.118	2.054	13.2	18.1
4 11	14 12.92	-10 29.8	1.277	2.263	6.0	18.6	4 11	14 12.84	-19 1.3	1.072	2.051	8.2	17.8
4 21	14 3.21	-9 53.7	1.273	2.277	1.2	18.3	4 21	14 3.26	-18 42.8	1.048	2.049	3.5	17.5
5 1	13 53.52	-9 19.5	1.295	2.292	5.0	18.6	5 1	13 53.32	-18 11.9	1.047	2.047	5.0	17.6
5 11	13 45.15	-8 53.3	1.343	2.306	9.8	18.9	5 11	13 44.64	-17 35.9	1.071	2.046	10.1	17.9
5 21	13 39.00	-8 39.4	1.412	2.321	14.1	19.2	5 21	13 38.46	-17 3.0	1.115	2.046	15.1	18.1
5 31	13 35.61	-8 40.2	1.501	2.336	17.7	19.4	5 31	13 35.52	-16 40.1	1.177	2.047	19.3	18.4
<b>62118</b>	2000 RG <sub>102</sub>		4 22.6 104°49	4°7/27.4	18		<b>303814</b>	2005 SH <sub>77</sub>		4 22.6 216°28	0°6/21.9	16	
3 22	14 23.31	-29 9.2	2.356	3.155	12.5	19.0	3 22	14 21.49	-12 7.0	2.781	3.638	9.2	22.2
4 1	14 17.96	-29 11.3	2.277	3.159	10.1	18.8	4 1	14 16.37	-11 35.5	2.697	3.631	6.5	22.1
4 11	14 10.95	-28 55.8	2.221	3.163	7.4	18.7	4 11	14 9.98	-10 57.9	2.641	3.624	3.5	21.8
4 21	14 2.95	-28 22.9	2.191	3.167	5.2	18.5	4 21	14 2.84	-10 16.9	2.613	3.617	0.6	21.6
5 1	13 54.83	-27 35.0	2.188	3.171	4.8	18.5	5 1	13 55.59	-9 35.9	2.615	3.609	3.0	21.8
5 11	13 47.45	-26 36.8	2.213	3.174	6.7	18.6	5 11	13 48.85	-8 58.6	2.646	3.601	6.1	22.0
5 21	13 41.52	-25 34.2	2.264	3.178	9.3	18.8	5 21	13 43.17	-8 28.0	2.703	3.593	8.9	22.1
5 31	13 37.53	-24 33.1	2.338	3.182	11.8	19.0	5 31	13 38.96	-8 6.5	2.784	3.585	11.3	22.3
<b>376780</b>	2000 NG <sub>15</sub>		4 22.6 232°47	6°4/28.2	18		<b>430302</b>	2013 WQ <sub>99</sub>		4 22.6 163°83	1°1/23.4	17	
3 22	14 28.12	-32 34.3	2.233	3.009	13.9	20.7	3 22	14 26.84	-16 4.0	1.990	2.842	12.5	21.1
4 1	14 21.74	-32 59.3	2.136	2.997	11.5	20.5	4 1	14 20.61	-16 8.6	1.916	2.844	9.1	20.9
4 11	14 13.22	-33 4.4	2.061	2.984	9.0	20.4	4 11	14 12.48	-16 3.4	1.866	2.845	5.3	20.7
4 21	14 3.29	-32 47.7	2.011	2.971	7.0	20.2	4 21	14 3.19	-15 49.9	1.843	2.846	1.5	20.4
5 1	13 52.98	-32 9.9	1.989	2.958	6.5	20.1	5 1	13 53.73	-15 31.1	1.849	2.848	3.4	20.5
5 11	13 43.39	-31 15.1	1.993	2.944	8.1	20.2	5 11	13 45.09	-15 11.3	1.883	2.849	7.3	20.8
5 21	13 35.47	-30 9.7	2.023	2.929	10.6	20.3	5 21	13 38.07	-14 54.5	1.942	2.849	10.9	21.0
5 31	13 29.87	-29 1.4	2.076	2.914	13.3	20.5	5 31	13 33.22	-14 44.4	2.023	2.850	14.0	21.2
<b>160505</b>	2007 JN <sub>16</sub>		4 22.6 270°00	1°2/23.6	17		<b>93120</b>	2000 SK <sub>59</sub>		4 22.6 142°35	3°6/25.7	18	
3 22	14 24.03												

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>10237</b>	Adzic		4 22.6 324°17'	1°0'/21.9 18			<b>27676</b>	1981 <i>DH</i> <sub>3</sub>		4 22.6 277°78'	1°7'/24.0 18		
3 22	14 25.64	-12 21.4	1.237	2.122	16.3	18.0	3 22	14 24.01	-20 13.4	1.723	2.575	14.1	18.6
4 1	14 20.58	-11 49.1	1.170	2.117	11.7	17.7	4 1	14 19.05	-19 31.8	1.627	2.553	10.6	18.4
4 11	14 12.78	-11 4.4	1.125	2.112	6.4	17.4	4 11	14 11.85	-18 30.6	1.553	2.530	6.4	18.1
4 21	14 3.25	-10 12.5	1.103	2.108	1.2	17.0	4 21	14 3.17	-17 12.7	1.505	2.507	2.3	17.7
5 1	13 53.44	-9 20.9	1.106	2.104	5.4	17.3	5 1	13 54.07	-15 43.6	1.485	2.484	3.9	17.8
5 11	13 44.84	-8 37.9	1.133	2.100	10.9	17.6	5 11	13 45.75	-14 12.1	1.491	2.461	8.5	18.0
5 21	13 38.58	-8 9.8	1.182	2.097	15.8	17.8	5 21	13 39.19	-12 46.7	1.523	2.437	12.9	18.2
5 31	13 35.35	-8 0.2	1.248	2.093	19.9	18.1	5 31	13 35.08	-11 35.0	1.575	2.413	16.8	18.4
<b>91087</b>	1998 <i>FO</i> <sub>120</sub>		4 22.6 59°57'	5°2'/25.9 17			<b>129431</b>	4355 <i>T</i> <sub>-3</sub>		4 22.6 230°44'	1°8'/21.1 18		
3 22	14 29.46	-24 53.4	1.641	2.470	15.8	18.9	3 22	14 26.87	-8 29.6	2.157	3.020	11.2	21.3
4 1	14 22.87	-25 35.2	1.579	2.484	12.3	18.7	4 1	14 20.57	-8 2.6	2.070	3.007	8.0	21.0
4 11	14 13.86	-25 58.5	1.540	2.498	8.6	18.5	4 11	14 12.47	-7 30.8	2.010	2.994	4.4	20.8
4 21	14 3.40	-26 2.2	1.526	2.512	5.7	18.4	4 21	14 3.24	-6 57.6	1.977	2.979	1.8	20.6
5 1	13 52.78	-25 47.8	1.538	2.526	5.7	18.4	5 1	13 53.76	-6 27.3	1.974	2.964	4.4	20.7
5 11	13 43.33	-25 20.9	1.576	2.541	8.5	18.6	5 11	13 44.95	-6 4.1	1.999	2.949	8.1	20.9
5 21	13 36.02	-24 48.1	1.638	2.556	12.0	18.8	5 21	13 37.56	-5 51.1	2.050	2.933	11.6	21.1
5 31	13 31.46	-24 16.4	1.721	2.570	15.1	19.1	5 31	13 32.17	-5 50.4	2.122	2.916	14.6	21.3
<b>464477</b>	2016 <i>BC</i> <sub>52</sub>		4 22.6 51°28'	0°2'/22.7 16			<b>297277</b>	1996 <i>VT</i> <sub>15</sub>		4 22.6 74°5'	0°6'/23.2 17		
3 22	14 25.93	-15 2.8	1.268	2.146	16.4	21.9	3 22	14 21.49	-17 0.0	2.148	3.002	11.6	21.3
4 1	14 20.52	-14 35.7	1.216	2.158	11.8	21.6	4 1	14 16.65	-16 19.4	2.075	3.005	8.4	21.1
4 11	14 12.58	-13 54.2	1.185	2.170	6.6	21.3	4 11	14 10.23	-15 27.1	2.028	3.009	4.8	20.8
4 21	14 3.21	-13 3.2	1.178	2.183	1.0	21.0	4 21	14 2.92	-14 26.5	2.008	3.012	1.0	20.6
5 1	13 53.83	-12 9.8	1.197	2.196	4.6	21.3	5 1	13 55.52	-13 22.5	2.016	3.015	3.1	20.7
5 11	13 45.81	-11 22.1	1.240	2.209	9.8	21.6	5 11	13 48.87	-12 20.8	2.053	3.018	6.8	21.0
5 21	13 40.12	-10 46.4	1.305	2.223	14.4	21.9	5 21	13 43.62	-11 26.4	2.115	3.022	10.2	21.2
5 31	13 37.29	-10 26.7	1.389	2.237	18.1	22.2	5 31	13 40.21	-10 43.2	2.200	3.025	13.1	21.4
<b>519911</b>	2013 <i>QD</i> <sub>96</sub>		4 22.6 227°14'	2°6'/25.1 17			<b>178577</b>	1999 <i>XB</i> <sub>29</sub>		4 22.6 102°47'	1°1'/21.7 18		
3 22	14 24.64	-23 8.9	2.072	2.903	12.9	21.7	3 22	14 26.39	-12 13.6	1.654	2.524	13.7	20.7
4 1	14 19.10	-22 33.1	1.982	2.893	9.8	21.4	4 1	14 20.35	-11 28.9	1.599	2.539	9.7	20.5
4 11	14 11.67	-21 39.3	1.915	2.883	6.3	21.2	4 11	14 12.31	-10 34.9	1.569	2.554	5.2	20.2
4 21	14 3.10	-20 29.6	1.875	2.872	3.1	21.0	4 21	14 3.20	-9 36.7	1.565	2.569	1.1	20.0
5 1	13 54.31	-19 8.6	1.864	2.861	3.6	21.0	5 1	13 54.12	-8 40.7	1.588	2.583	4.5	20.3
5 11	13 46.30	-17 43.0	1.881	2.850	7.1	21.2	5 11	13 46.14	-7 53.0	1.638	2.597	8.8	20.5
5 21	13 39.84	-16 20.3	1.925	2.838	10.7	21.4	5 21	13 40.04	-7 18.3	1.713	2.611	12.6	20.8
5 31	13 35.51	-15 6.8	1.992	2.825	14.0	21.5	5 31	13 36.29	-6 59.1	1.807	2.624	15.8	21.0
<b>376781</b>	2000 <i>OY</i> <sub>12</sub>		4 22.6 236°00'	1°7'/24.2 18			<b>102536</b>	Luanenjie		4 22.6 177°13'	1°4'/21.1 18		
3 22	14 25.92	-19 43.3	2.386	3.220	11.3	21.8	3 22	14 25.11	-8 25.7	2.757	3.614	9.2	20.5
4 1	14 19.86	-19 26.3	2.287	3.203	8.4	21.6	4 1	14 18.88	-8 0.1	2.683	3.617	6.5	20.3
4 11	14 12.06	-18 56.7	2.213	3.186	5.2	21.4	4 11	14 11.35	-7 31.0	2.636	3.619	3.6	20.1
4 21	14 3.16	-18 16.2	2.167	3.167	2.1	21.1	4 21	14 3.08	-7 1.4	2.618	3.620	1.4	20.0
5 1	13 53.97	-17 27.7	2.151	3.148	3.1	21.2	5 1	13 54.73	-6 34.2	2.631	3.621	3.5	20.1
5 11	13 45.38	-16 37.0	2.163	3.128	6.6	21.4	5 11	13 46.97	-6 12.7	2.674	3.621	6.5	20.3
5 21	13 38.12	-15 46.3	2.203	3.107	10.0	21.5	5 21	13 40.36	-5 59.0	2.743	3.620	9.2	20.5
5 31	13 32.75	-15 3.1	2.266	3.086	12.9	21.7	5 31	13 35.29	-5 54.9	2.836	3.618	11.6	20.7
<b>68444</b>	2001 <i>RH</i> <sub>142</sub>		4 22.6 351°38'	6°7'/8.1 18			<b>221170</b>	2005 <i>TH</i> <sub>138</sub>		4 22.6 260°36'	2°5'/20.6 17		
3 22	14 16.36	+24 4.4	4.272	5.074	7.3	18.7	3 22	14 23.92	-8 31.7	1.741	2.618	12.7	20.4
4 1	14 12.40	+24 59.4	4.238	5.073	6.8	18.7	4 1	14 18.70	-7 40.6	1.667	2.611	9.0	20.2
4 11	14 7.68	+25 43.4	4.228	5.073	6.7	18.7	4 11	14 11.51	-6 42.7	1.619	2.604	5.0	19.9
4 21	14 2.54	+26 13.9	4.244	5.073	7.0	18.7	4 21	14 3.12	-5 43.7	1.597	2.598	2.5	19.8
5 1	13 57.38	+26 28.8	4.283	5.072	7.7	18.7	5 1	13 54.53	-4 49.8	1.602	2.591	5.4	19.9
5 11	13 52.59	+26 27.8	4.345	5.072	8.6	18.8	5 11	13 46.80	-4 7.1	1.633	2.584	9.5	20.2
5 21	13 48.50	+26 11.3	4.425	5.072	9.4	18.9	5 21	13 40.75	-3 39.8	1.688	2.577	13.3	20.4
5 31	13 45.37	+25 40.6	4.523	5.072	10.2	19.0	5 31	13 36.94	-3 29.9	1.763	2.570	16.6	20.6
<b>421</b>	Zähringia		4 22.6 171°28'	1°4'/21.1 18			<b>346034</b>	2007 <i>TT</i> <sub>403</sub>		4 22.6 81°03'	0°7'/23.2 17		
3 22	14 24.73	-10 35.0	2.383	3.243	10.4	16.9	3 22	14 25.52	-15 11.6	2.128	2.982	11.7	21.1
4 1	14 18.75	-9 41.1	2.312	3.248	7.3	16.7	4 1	14 19.44	-15 7.5	2.069	2.999	8.5	20.9
4 11	14 11.31	-8 40.8	2.268	3.252	4.0	16.5	4 11	14 11.73	-14 54.7	2.035	3.015	4.8	20.7
4 21	14 3.05	-7 38.1	2.252	3.255	1.4	16.3	4 21	14 3.13	-14 35.4	2.028	3.032	1.1	20.5
5 1	13 54.73	-6 37.9	2.267	3.257	3.9	16.5	5 1	13 54.52	-14 12.7	2.051	3.049	3.1	20.7
5 11	13 47.12	-5 45.1	2.311	3.259	7.3	16.7	5 11	13 46.76	-13 50.7	2.101	3.066	6.8	21.0
5 21	13 40.83	-5 3.2	2.381	3.260	10.3	16.9	5 21	13 40.50	-13 33.0	2.177	3.082	10.0	21.2
5 31	13 36.28	-4 34.5	2.473	3.260	12.9	17.1	5 31	13 36.21	-13 22.5	2.276	3.098	12.8	21.4
<b>171213</b>	2005 <i>JD</i> <sub>72</sub>		4 22.6 225°33'	0°9'/21.7 18			<b>121180</b>	1999 <i>LX</i> <sub>15</sub>		4 22.6 190°48'	18°9'/5.9 18		
3 22	14 22.93	-11 24.2	2.225	3.090	10.9	21.0	3 22	14 32.52	+28 23.1	1.273	2.095	19.8	19.4
4 1	14 17.65	-10 51.4	2.148	3.085	7.7	20.8	4 1	14 25.38	+30 40.8	1.250	2.095	19.0	19.4
4 11	14 10.78	-10 11.7	2.096	3.080	4.2	20.5	4 11	14 15.31	+32 21.0	1.246	2.094	19.0	19.3
4 21	14 2.98	-9 28.6	2.071	3.075	1.0	20.3	4 21	14 3.63	+33 11.7	1.259	2.093	19.9	19.4
5 1	13 55.04	-8 46.3	2.076	3.070	3.7	20.5	5 1	13 52.06	+33 7.6	1.289	2.091	21.4	19.5
5 11	13 47.77	-8 9.3	2.108	3.065	7.3	20.7	5 11	13 42.18	+32 11.3	1.333	2.088	23.2	19.6
5 21	13 41.83	-7 41.3	2.166	3.059	10.6	20.9	5 21	13 35.05	+30 31.0	1.391	2.085	25.0	19.8
5 31	13 37.72	-7 24.8	2.246	3.053	13.4	21.1	5 31	13 31.20	+28 16.7	1.458	2.081	26.5	19.9
<b>471343</b>	2011 <i>QD</i> <sub>10</sub>		4 22.6 255°36'	1°9'/20.6 16			<b>154331</b>	2002 <i>VF</i> <sub>95</sub>		4 22.6 251°67'	1°4'/21.5 17		
3 22	14 21.08	-9 34.3											

EPHEMERIDES

4 22.6

4 22.6

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>272502</b>	2005 <i>UZ</i> <sub>160</sub>		4 22.6 111°77'	1.9°/20.8	18		<b>295598</b>	2008 <i>SA</i> <sub>168</sub>		4 22.6 238°42'	2°1'/21.0	17	
3 22	14 25.04	- 9 33.1	2.034	2.901	11.6	21.3	3 22	14 27.23	-10 24.6	1.607	2.480	13.8	21.7
4 1	14 19.05	- 8 37.8	1.981	2.920	8.1	21.1	4 1	14 21.34	- 9 28.4	1.525	2.467	9.9	21.4
4 11	14 11.49	- 7 36.9	1.954	2.939	4.4	20.9	4 11	14 13.13	- 8 21.8	1.467	2.453	5.5	21.1
4 21	14 3.10	- 6 35.4	1.955	2.957	1.9	20.7	4 21	14 3.41	- 7 10.3	1.435	2.438	2.1	20.9
5 1	13 54.78	- 5 38.7	1.985	2.975	4.5	21.0	5 1	13 53.36	- 6 1.5	1.431	2.422	5.5	21.0
5 11	13 47.36	- 4 52.0	2.043	2.992	8.0	21.2	5 11	13 44.20	- 5 3.2	1.453	2.406	10.2	21.3
5 21	13 41.47	- 4 18.4	2.126	3.008	11.3	21.4	5 21	13 36.92	- 4 21.0	1.498	2.390	14.6	21.5
5 31	13 37.52	- 3 59.6	2.230	3.024	13.9	21.6	5 31	13 32.22	- 3 58.4	1.563	2.372	18.3	21.7
<b>363543</b>	2003 <i>UF</i> <sub>378</sub>		4 22.6 299°10'	2°1'/23.7	17		<b>502825</b>	2015 <i>DK</i> <sub>144</sub>		4 22.6 103°26'	6°2'/28.6	17	
3 22	14 27.77	-17 6.9	1.394	2.260	16.0	20.9	3 22	14 26.84	-32 23.5	1.925	2.714	15.3	21.3
4 1	14 22.19	-17 23.2	1.312	2.246	11.9	20.6	4 1	14 20.79	-32 23.9	1.857	2.728	12.5	21.2
4 11	14 13.80	-17 26.1	1.251	2.231	7.2	20.3	4 11	14 12.65	-32 0.3	1.810	2.742	9.5	21.0
4 21	14 3.49	-17 16.1	1.215	2.217	2.6	19.9	4 21	14 3.32	-31 12.7	1.787	2.755	7.0	20.9
5 1	13 52.62	-16 56.4	1.204	2.203	4.6	20.0	5 1	13 53.95	-30 4.3	1.791	2.769	6.3	20.9
5 11	13 42.71	-16 32.8	1.218	2.189	9.7	20.3	5 11	13 45.65	-28 42.0	1.822	2.782	8.0	21.0
5 21	13 35.02	-16 11.7	1.254	2.176	14.5	20.5	5 21	13 39.27	-27 14.1	1.878	2.794	10.8	21.2
5 31	13 30.39	-15 59.3	1.309	2.162	18.7	20.7	5 31	13 35.31	-25 48.9	1.957	2.807	13.6	21.4
<b>40486</b>	1999 <i>RJ</i> <sub>64</sub>		4 22.6 221°91'	4°3'/19.0	18		<b>353322</b>	2010 <i>LB</i> <sub>10</sub>		4 22.6 309°29'	8°4'/30.2	16	
3 22	14 25.74	- 3 42.1	1.781	2.658	12.5	19.6	3 22	14 24.39	-37 29.3	2.125	2.881	15.1	19.9
4 1	14 19.96	- 2 37.2	1.709	2.651	9.0	19.4	4 1	14 19.35	-38 4.2	2.026	2.863	13.0	19.7
4 11	14 12.20	- 1 29.8	1.662	2.643	5.6	19.2	4 11	14 12.07	-38 16.1	1.948	2.846	10.8	19.5
4 21	14 3.23	- 0 26.4	1.643	2.635	4.4	19.1	4 21	14 3.27	-38 2.1	1.892	2.829	9.0	19.4
5 1	13 54.08	+ 0 26.1	1.650	2.626	6.9	19.2	5 1	13 54.04	-37 21.9	1.861	2.812	8.4	19.3
5 11	13 45.78	+ 1 2.3	1.684	2.617	10.6	19.4	5 11	13 45.54	-36 19.4	1.855	2.795	9.3	19.3
5 21	13 39.16	+ 1 19.2	1.741	2.607	14.1	19.6	5 21	13 38.79	-35 1.5	1.873	2.779	11.4	19.4
5 31	13 34.78	+ 1 16.2	1.817	2.597	17.2	19.8	5 31	13 34.49	-33 36.6	1.914	2.763	13.8	19.5
<b>267704</b>	2002 <i>YM</i> <sub>28</sub>		4 22.6 89°79'	1°2'/23.5	18		<b>320535</b>	2007 <i>YY</i> <sub>65</sub>		4 22.6 4°37'	1°0'/21.9	17	
3 22	14 26.50	-17 15.2	1.688	2.545	14.1	20.5	3 22	14 22.97	-12 27.1	1.246	2.134	15.9	20.4
4 1	14 20.51	-16 58.1	1.628	2.559	10.3	20.3	4 1	14 18.60	-11 52.3	1.185	2.133	11.4	20.1
4 11	14 12.46	-16 27.7	1.592	2.572	6.0	20.0	4 11	14 11.67	-11 5.4	1.146	2.133	6.2	19.8
4 21	14 3.26	-15 47.0	1.582	2.585	1.7	19.8	4 21	14 3.21	-10 11.8	1.130	2.134	1.2	19.5
5 1	13 54.03	-15 0.9	1.599	2.598	3.7	19.9	5 1	13 54.56	- 9 19.3	1.138	2.136	5.2	19.8
5 11	13 45.87	-14 15.7	1.643	2.611	8.0	20.2	5 11	13 47.11	- 8 35.9	1.171	2.139	10.5	20.1
5 21	13 39.59	-13 36.9	1.711	2.623	11.9	20.5	5 21	13 41.89	- 8 7.5	1.225	2.142	15.2	20.3
5 31	13 35.72	-13 8.9	1.801	2.636	15.2	20.7	5 31	13 39.50	- 7 57.5	1.297	2.146	19.1	20.6
<b>101453</b>	1998 <i>WN</i> <sub>2</sub>		4 22.6 118°07'	6°6'/28.4	18		<b>6195</b>	Nukariya		4 22.6 123°36'	2°0'/21.0	18	
3 22	14 29.23	-32 24.5	1.966	2.750	15.2	18.9	3 22	14 25.77	- 9 21.9	1.790	2.662	12.7	18.0
4 1	14 22.53	-32 47.9	1.897	2.763	12.5	18.7	4 1	14 19.86	- 8 36.9	1.731	2.672	9.0	17.8
4 11	14 13.62	-32 48.7	1.850	2.777	9.6	18.6	4 11	14 12.07	- 7 45.7	1.696	2.682	4.9	17.6
4 21	14 3.43	-32 25.8	1.827	2.790	7.3	18.5	4 21	14 3.25	- 6 53.3	1.689	2.691	2.0	17.4
5 1	13 53.12	-31 41.0	1.830	2.802	6.7	18.5	5 1	13 54.40	- 6 5.5	1.709	2.700	4.9	17.6
5 11	13 43.87	-30 40.1	1.861	2.815	8.3	18.6	5 11	13 46.51	- 5 27.6	1.756	2.708	8.8	17.9
5 21	13 36.57	-29 30.7	1.916	2.826	10.9	18.8	5 21	13 40.34	- 5 3.2	1.827	2.716	12.4	18.1
5 31	13 31.80	-28 21.0	1.994	2.838	13.6	18.9	5 31	13 36.37	- 4 54.2	1.919	2.724	15.5	18.3
<b>346824</b>	2009 <i>CZ</i> <sub>64</sub>		4 22.6 87°95'	4°4'/18.0	17		<b>276913</b>	2004 <i>TS</i> <sub>22</sub>		4 22.6 235°38'	5°9'/26.4	17	
3 22	14 21.41	- 1 46.8	2.077	2.956	10.8	20.7	3 22	14 31.54	-27 23.3	1.979	2.783	14.4	20.8
4 1	14 16.54	- 0 34.2	2.020	2.962	7.9	20.5	4 1	14 24.42	-28 21.3	1.893	2.778	11.6	20.6
4 11	14 10.16	+ 0 38.2	1.989	2.967	5.2	20.4	4 11	14 14.87	-29 3.2	1.830	2.773	8.7	20.4
4 21	14 2.94	+ 1 44.2	1.986	2.972	4.6	20.4	4 21	14 3.68	-29 26.1	1.793	2.767	6.3	20.3
5 1	13 55.69	+ 2 38.2	2.010	2.977	6.7	20.5	5 1	13 52.01	-29 29.6	1.783	2.761	6.2	20.2
5 11	13 49.20	+ 3 15.8	2.060	2.982	9.6	20.7	5 11	13 41.12	-29 16.9	1.801	2.756	8.5	20.4
5 21	13 44.07	+ 3 35.3	2.134	2.987	12.4	20.9	5 21	13 32.07	-28 53.5	1.844	2.750	11.5	20.5
5 31	13 40.75	+ 3 36.3	2.228	2.992	14.8	21.0	5 31	13 25.63	-28 26.3	1.909	2.743	14.5	20.7
<b>435362</b>	2007 <i>VF</i> <sub>262</sub>		4 22.6 204°13'	1°6'/21.1	17		<b>499128</b>	2009 <i>OV</i> <sub>22</sub>		4 22.6 276°29'	7°9'/28.3	18	
3 22	14 23.10	- 9 11.3	2.195	3.063	10.8	21.9	3 22	14 28.08	-32 57.9	1.773	2.563	16.4	20.7
4 1	14 17.77	- 8 36.3	2.122	3.061	7.7	21.7	4 1	14 22.36	-33 31.7	1.672	2.541	13.8	20.4
4 11	14 10.87	- 7 56.3	2.075	3.060	4.2	21.5	4 11	14 13.92	-33 41.9	1.591	2.518	10.9	20.2
4 21	14 3.05	- 7 14.9	2.055	3.058	1.6	21.3	4 21	14 3.56	-33 24.7	1.533	2.495	8.5	20.0
5 1	13 55.12	- 6 36.5	2.065	3.056	4.1	21.5	5 1	13 52.53	-32 39.8	1.501	2.472	8.0	19.9
5 11	13 47.89	- 6 5.4	2.102	3.053	7.6	21.7	5 11	13 42.30	-31 32.1	1.493	2.449	9.8	20.0
5 21	13 42.00	- 5 44.7	2.164	3.051	10.9	21.9	5 21	13 34.09	-30 10.1	1.510	2.425	13.0	20.1
5 31	13 37.94	- 5 36.5	2.248	3.048	13.6	22.1	5 31	13 28.80	-28 44.2	1.548	2.401	16.3	20.2
<b>263922</b>	2009 <i>HQ</i>		4 22.6 325°47'	1°0'/22.0	17		<b>406300</b>	2007 <i>GR</i> <sub>24</sub>		4 22.6 310°55'	2°5'/20.9	16	
3 22	14 23.96	-11 28.2	1.208	2.098	16.2	20.1	3 22	14 22.03	-11 27.5	1.164	2.058	16.3	20.8
4 1	14 19.63	-11 14.4	1.131	2.080	11.7	19.8	4 1	14 18.29	-10 18.5	1.086	2.038	11.7	20.4
4 11	14 12.45	-10 50.2	1.076	2.063	6.5	19.4	4 11	14 11.72	- 8 52.8	1.029	2.018	6.5	20.1
4 21	14 3.33	-10 19.7	1.043	2.047	1.2	19.0	4 21	14 3.25	- 7 18.0	0.996	1.999	2.5	19.8
5 1	13 53.68	- 9 49.1	1.034	2.032	5.5	19.3	5 1	13 54.26	- 5 45.5	0.986	1.980	6.8	20.0
5 11	13 45.08	- 9 25.7	1.048	2.018	11.2	19.5	5 11	13 46.32	- 4 27.0	0.999	1.962	12.5	20.2
5 21	13 38.77	- 9 15.4	1.083	2.005	16.4	19.8	5 21	13 40.68	- 3 31.5	1.032	1.944	17.8	20.4
5 31	13 35.60	- 9 21.9	1.136	1.992	20.8	20.0	5 31	13 38.15	- 3 3.4	1.081	1.927	22.3	20.7
<b>262914</b>	2007 <i>CW</i> <sub>54</sub>		4 22.6 347°20'	4°0'/20.1	17		<b>258964</b>	2002 <i>SF</i> <sub>13</sub>					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>307558</b>	2003 <i>EY</i> <sub>48</sub>		4 22.6 34°14'	2°8'/20.4	17		<b>188012</b>	2001 <i>TO</i> <sub>98</sub>		4 22.6 210°05'	0°1'/22.6	17	
3 22	14 23.01	- 8 23.7	1.521	2.406	13.8	20.1	3 22	14 25.48	-14 5.8	1.879	2.741	12.7	21.3
4 1	14 18.16	- 7 23.8	1.464	2.411	9.7	19.9	4 1	14 19.76	-13 39.4	1.803	2.738	9.1	21.1
4 11	14 11.24	- 6 17.2	1.430	2.416	5.4	19.6	4 11	14 12.11	-13 2.8	1.751	2.734	5.1	20.8
4 21	14 3.14	- 5 10.7	1.421	2.422	2.9	19.5	4 21	14 3.28	-12 19.3	1.726	2.731	0.7	20.5
5 1	13 54.98	- 4 11.8	1.439	2.428	5.9	19.7	5 1	13 54.27	-11 33.6	1.729	2.727	3.7	20.7
5 11	13 47.86	- 3 27.0	1.482	2.434	10.2	19.9	5 11	13 46.09	-10 51.4	1.760	2.723	8.0	21.0
5 21	13 42.60	- 3 0.1	1.548	2.441	14.1	20.2	5 21	13 39.55	-10 17.4	1.815	2.718	11.8	21.2
5 31	13 39.71	- 2 52.8	1.632	2.448	17.3	20.4	5 31	13 35.21	- 9 55.4	1.892	2.713	15.1	21.4
<b>334257</b>	2001 <i>TA</i> <sub>230</sub>		4 22.6 206°62'	0°6'/21.5	18		<b>36716</b>	2000 <i>RU</i> <sub>39</sub>		4 22.6 113°63'	1°0'/23.3	18	
3 22	14 14.87	-10 56.4	4.636	5.493	5.8	21.0	3 22	14 29.27	-15 15.2	1.996	2.846	12.5	19.3
4 1	14 11.33	-10 21.8	4.556	5.491	4.1	20.9	4 1	14 22.28	-15 25.9	1.932	2.859	9.1	19.1
4 11	14 7.13	- 9 44.0	4.505	5.489	2.2	20.7	4 11	14 13.41	-15 27.8	1.892	2.872	5.2	18.9
4 21	14 2.56	- 9 4.9	4.484	5.487	0.6	20.6	4 21	14 3.46	-15 22.2	1.881	2.884	1.4	18.7
5 1	13 57.94	- 8 26.6	4.493	5.485	2.0	20.7	5 1	13 53.43	-15 11.8	1.898	2.886	3.4	18.8
5 11	13 53.62	- 7 51.1	4.532	5.484	3.9	20.8	5 11	13 44.33	-15 0.4	1.944	2.908	7.2	19.1
5 21	13 49.87	- 7 20.1	4.598	5.482	5.6	21.0	5 21	13 36.92	-14 51.7	2.015	2.920	10.7	19.3
5 31	13 46.92	- 6 55.1	4.690	5.480	7.2	21.1	5 31	13 31.72	-14 49.0	2.109	2.931	13.7	19.5
<b>317460</b>	2002 <i>RF</i> <sub>50</sub>		4 22.6 278°45'	3°0'/20.2	18		<b>235236</b>	2003 <i>SS</i> <sub>267</sub>		4 22.6 228°19'	0°3'/22.3	17	
3 22	14 25.03	- 8 4.2	1.668	2.546	13.1	20.9	3 22	14 23.57	-13 41.5	2.097	2.958	11.6	21.5
4 1	14 19.81	- 7 4.3	1.576	2.520	9.4	20.6	4 1	14 18.24	-13 7.9	2.017	2.952	8.3	21.3
4 11	14 12.33	- 5 55.6	1.509	2.494	5.4	20.3	4 11	14 11.22	-12 25.0	1.963	2.946	4.6	21.0
4 21	14 3.33	- 4 44.1	1.467	2.467	3.0	20.1	4 21	14 3.17	-11 36.2	1.936	2.940	0.6	20.7
5 1	13 53.87	- 3 37.4	1.453	2.440	6.2	20.2	5 1	13 54.94	-10 46.0	1.937	2.934	3.5	20.9
5 11	13 45.13	- 2 43.0	1.465	2.413	10.6	20.4	5 11	13 47.44	- 9 59.7	1.967	2.928	7.4	21.1
5 21	13 38.11	- 2 6.2	1.500	2.385	14.9	20.6	5 21	13 41.37	- 9 21.8	2.022	2.921	11.0	21.3
5 31	13 33.53	- 1 50.1	1.553	2.357	18.6	20.8	5 31	13 37.24	- 8 55.6	2.098	2.914	14.0	21.5
<b>52711</b>	1998 <i>FE</i> <sub>104</sub>		4 22.6 176°54'	1°5'/24.2	18		<b>362660</b>	2011 <i>UK</i> <sub>6</sub>		4 22.6 11°74'	1°2'/23.5	18	
3 22	14 21.79	-19 57.3	2.458	3.297	10.8	18.7	3 22	14 20.41	-19 13.5	1.085	1.969	18.1	20.2
4 1	14 16.76	-19 24.2	2.379	3.298	8.0	18.5	4 1	14 17.03	-18 15.8	1.028	1.971	13.3	19.9
4 11	14 10.30	-18 38.9	2.324	3.298	4.9	18.3	4 11	14 10.90	-16 53.2	0.990	1.974	7.7	19.6
4 21	14 3.01	-17 43.6	2.298	3.299	1.9	18.1	4 21	14 3.13	-15 12.4	0.974	1.978	1.9	19.3
5 1	13 55.63	-16 42.4	2.301	3.299	2.8	18.2	5 1	13 55.23	-13 24.5	0.982	1.983	4.8	19.5
5 11	13 48.90	-15 40.2	2.332	3.299	6.0	18.4	5 11	13 48.70	-11 42.9	1.013	1.989	10.5	19.8
5 21	13 43.43	-14 41.9	2.390	3.299	9.1	18.6	5 21	13 44.60	-10 18.5	1.065	1.996	15.7	20.1
5 31	13 39.64	-13 51.7	2.472	3.299	11.8	18.8	5 31	13 43.50	- 9 18.0	1.135	2.004	19.9	20.4
<b>125888</b>	2001 <i>XK</i> <sub>209</sub>		4 22.6 195°94'	2°5'/20.4	17		<b>62221</b>	2000 <i>SA</i> <sub>67</sub>		4 22.6 252°97'	1°0'/21.7	18	
3 22	14 24.68	- 7 30.4	1.958	2.831	11.7	20.4	3 22	14 25.78	-11 7.9	2.242	3.101	11.0	20.4
4 1	14 19.05	- 6 43.6	1.888	2.829	8.3	20.2	4 1	14 19.86	-10 35.1	2.144	3.079	7.9	20.2
4 11	14 11.65	- 5 52.2	1.843	2.828	4.7	20.0	4 11	14 12.16	- 9 54.9	2.072	3.055	4.3	19.9
4 21	14 3.21	- 5 0.9	1.825	2.825	2.5	19.8	4 21	14 3.32	- 9 10.4	2.028	3.032	1.1	19.6
5 1	13 54.64	- 4 15.2	1.836	2.823	5.1	20.0	5 1	13 54.14	- 8 26.0	2.013	3.007	3.9	19.8
5 11	13 46.87	- 3 40.0	1.874	2.820	8.8	20.2	5 11	13 45.54	- 7 46.6	2.027	2.981	7.7	20.0
5 21	13 40.64	- 3 18.6	1.936	2.817	12.2	20.4	5 21	13 38.26	- 7 16.0	2.067	2.955	11.3	20.1
5 31	13 36.44	- 3 12.7	2.019	2.814	15.2	20.6	5 31	13 32.90	- 6 57.5	2.129	2.928	14.4	20.3
<b>233490</b>	2007 <i>BT</i> <sub>80</sub>		4 22.6 335°96'	2°3'/23.9	17		<b>236765</b>	2007 <i>OA</i> <sub>2</sub>		4 22.6 270°69'	3°9'/18.8	18	
3 22	14 25.46	-17 58.6	1.095	1.975	18.3	20.3	3 22	14 22.23	- 4 23.0	2.021	2.899	11.2	20.6
4 1	14 20.91	-18 0.7	1.027	1.967	13.6	20.0	4 1	14 17.36	- 3 11.1	1.940	2.882	8.0	20.4
4 11	14 13.23	-17 43.8	0.978	1.960	8.2	19.7	4 11	14 10.77	- 1 55.4	1.884	2.865	5.0	20.2
4 21	14 3.47	-17 9.8	0.952	1.954	2.9	19.3	4 21	14 3.11	- 0 42.0	1.855	2.848	4.0	20.1
5 1	13 53.25	-16 24.3	0.948	1.949	5.0	19.5	5 1	13 55.22	+ 0 22.7	1.855	2.830	6.4	20.2
5 11	13 44.34	-15 36.3	0.968	1.944	10.8	19.8	5 11	13 48.00	+ 1 12.9	1.881	2.812	9.8	20.4
5 21	13 38.08	-14 55.1	1.007	1.940	16.2	20.0	5 21	13 42.16	+ 1 45.1	1.931	2.794	13.1	20.5
5 31	13 35.27	-14 27.7	1.065	1.937	20.7	20.3	5 31	13 38.26	+ 1 57.9	2.000	2.776	15.9	20.7
<b>206780</b>	2004 <i>CV</i> <sub>105</sub>		4 22.6 356°94'	2°3'/24.8	18		<b>240846</b>	2006 <i>BE</i> <sub>131</sub>		4 22.6 262°03'	3°2'/20.2	16	
3 22	14 21.43	-21 50.4	1.939	2.782	13.1	19.8	3 22	14 25.85	- 7 46.5	1.534	2.414	13.9	20.6
4 1	14 16.86	-21 17.0	1.862	2.781	9.9	19.6	4 1	14 20.46	- 6 44.6	1.453	2.398	10.0	20.4
4 11	14 10.48	-20 26.6	1.808	2.781	6.2	19.4	4 11	14 12.70	- 5 34.4	1.396	2.382	5.7	20.1
4 21	14 3.04	-19 22.1	1.781	2.780	2.8	19.2	4 21	14 3.40	- 4 22.5	1.365	2.365	3.3	19.9
5 1	13 55.48	-18 8.3	1.781	2.780	3.5	19.2	5 1	13 53.74	- 3 17.2	1.361	2.348	6.5	20.0
5 11	13 48.73	-16 52.1	1.809	2.780	7.1	19.4	5 11	13 44.97	- 2 26.1	1.382	2.330	11.1	20.2
5 21	13 43.54	-15 40.4	1.862	2.780	10.7	19.6	5 21	13 38.10	- 1 54.3	1.425	2.312	15.4	20.4
5 31	13 40.42	-14 38.8	1.937	2.780	13.9	19.9	5 31	13 33.82	- 1 44.1	1.487	2.294	19.1	20.6
<b>290197</b>	2005 <i>SY</i> <sub>27</sub>		4 22.6 173°17'	3°8'/25.6	17		<b>52353</b>	1993 <i>FP</i> <sub>19</sub>		4 22.6 68°25'	3°5'/19.2	18	
3 22	14 28.56	-23 58.7	2.062	2.883	13.3	22.0	3 22	14 21.68	- 4 21.9	2.084	2.962	10.9	19.5
4 1	14 21.95	-24 15.5	1.983	2.885	10.3	21.8	4 1	14 16.74	- 3 24.0	2.028	2.970	7.7	19.4
4 11	14 13.33	-24 16.9	1.928	2.887	7.0	21.6	4 11	14 10.30	- 2 24.6	1.997	2.979	4.7	19.2
4 21	14 3.45	-24 2.9	1.899	2.889	4.3	21.5	4 21	14 3.04	- 1 29.1	1.993	2.987	3.5	19.1
5 1	13 53.36	-23 35.4	1.899	2.890	4.4	21.5	5 1	13 55.75	- 0 42.7	2.018	2.995	5.7	19.3
5 11	13 44.10	-22 59.0	1.926	2.890	7.3	21.7	5 11	13 49.23	- 0 9.5	2.069	3.004	8.8	19.5
5 21	13 36.53	-22 19.4	1.979	2.891	10.6	21.9	5 21	13 44.09	+ 0 8.2	2.144	3.012	11.7	19.7
5 31	13 31.23	-21 42.5	2.055	2.890	13.5	22.1	5 31	13 40.75	+ 0 9.7	2.240	3.021	14.3	19.9
<b>438855</b>	2009 <i>DR</i> <sub>93</sub>		4 22.6 275°44'	1°9'/20.8	17		<b>150962</b>	2001 <i>TA</i> <sub>161&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>99449</b>	2002 <i>CJ</i> <sub>30</sub>	4 22.6 211°54	0°2/22.5	18			<b>301553</b>	Ninaglebova	4 22.6 288°63	1°2/21.3	17		
3 22	14 28.69	-13 11.1	1.667	2.530	13.9	20.2	3 22	14 20.51	-11 57.2	2.186	3.054	10.9	20.5
4 1	14 22.31	-12 54.7	1.590	2.526	10.0	20.0	4 1	14 16.00	-10 58.1	2.107	3.047	7.7	20.3
4 11	14 13.64	-12 28.4	1.537	2.521	5.6	19.7	4 11	14 9.96	-9 50.2	2.054	3.040	4.2	20.1
4 21	14 3.54	-11 55.3	1.511	2.516	0.8	19.3	4 21	14 3.02	-8 38.1	2.029	3.033	1.2	19.8
5 1	13 53.17	-11 20.1	1.512	2.510	4.2	19.6	5 1	13 55.94	-7 27.4	2.032	3.025	4.0	20.0
5 11	13 43.75	-10 48.5	1.541	2.504	8.9	19.8	5 11	13 49.52	-6 23.9	2.064	3.018	7.6	20.2
5 21	13 36.23	-10 25.6	1.593	2.497	13.1	20.1	5 21	13 44.40	-5 31.9	2.120	3.011	10.9	20.4
5 31	13 31.27	-10 15.0	1.666	2.490	16.7	20.3	5 31	13 41.04	-4 54.6	2.198	3.004	13.7	20.6
<b>99150</b>	2001 <i>FT</i> <sub>127</sub>	4 22.6 118°43	0°7/22.0	18			<b>338980</b>	2004 <i>FZ</i> <sub>111</sub>	4 22.6 77°27	2°3/24.5	17		
3 22	14 23.41	-12 50.4	2.022	2.886	11.8	19.9	3 22	14 26.17	-19 29.0	2.130	2.970	12.2	21.2
4 1	14 18.08	-12 10.2	1.955	2.892	8.4	19.7	4 1	14 20.12	-19 44.8	2.057	2.975	9.2	21.0
4 11	14 11.09	-11 21.4	1.914	2.898	4.5	19.5	4 11	14 12.28	-19 49.3	2.008	2.979	5.8	20.8
4 21	14 3.16	-10 28.0	1.900	2.904	0.8	19.2	4 21	14 3.35	-19 43.1	1.986	2.984	2.7	20.7
5 1	13 55.17	-9 35.0	1.914	2.910	3.7	19.5	5 1	13 54.26	-19 28.5	1.992	2.989	3.5	20.7
5 11	13 47.98	-8 47.8	1.956	2.916	7.6	19.7	5 11	13 45.94	-19 9.3	2.026	2.993	6.8	20.9
5 21	13 42.29	-8 10.5	2.024	2.921	11.0	19.9	5 21	13 39.15	-18 49.7	2.086	2.998	10.1	21.1
5 31	13 38.55	-7 46.1	2.112	2.927	14.0	20.2	5 31	13 34.42	-18 33.9	2.169	3.003	13.0	21.3
<b>117524</b>	2005 <i>CA</i> <sub>53</sub>	4 22.6 186°10	0°3/22.9	18			<b>17743</b>	1998 <i>BA</i> <sub>31</sub>	4 22.6 122°55	1°9/21.1	18		
3 22	14 28.14	-15 7.8	1.976	2.828	12.5	20.6	3 22	14 27.02	-10 29.4	1.662	2.533	13.5	19.0
4 1	14 21.59	-14 44.9	1.899	2.829	9.1	20.4	4 1	14 20.83	-9 30.8	1.607	2.548	9.5	18.8
4 11	14 13.11	-14 11.4	1.847	2.828	5.1	20.1	4 11	14 12.66	-8 24.2	1.576	2.561	5.2	18.6
4 21	14 3.47	-13 30.1	1.822	2.827	0.9	19.8	4 21	14 3.40	-7 15.5	1.572	2.574	1.9	18.4
5 1	13 53.65	-12 45.4	1.827	2.825	3.5	20.0	5 1	13 54.17	-6 11.6	1.596	2.587	5.1	18.6
5 11	13 44.68	-12 2.7	1.859	2.822	7.7	20.2	5 11	13 46.04	-5 19.1	1.646	2.599	9.3	18.9
5 21	13 37.37	-11 26.7	1.918	2.818	11.4	20.5	5 21	13 39.77	-4 42.2	1.720	2.611	13.1	19.1
5 31	13 32.26	-11 1.5	1.998	2.814	14.6	20.7	5 31	13 35.86	-4 22.9	1.815	2.621	16.2	19.4
<b>115048</b>	2003 <i>RU</i> <sub>4</sub>	4 22.6 251°57	3°5/24.9	18			<b>500910</b>	2013 <i>NJ</i> <sub>22</sub>	4 22.6 96°59	2°9/25.6	18		
3 22	14 28.00	-22 4.9	1.671	2.511	15.0	19.8	3 22	14 25.80	-24 1.8	2.289	3.108	12.2	21.7
4 1	14 22.06	-22 10.9	1.583	2.499	11.5	19.6	4 1	14 19.60	-23 44.7	2.230	3.134	9.3	21.5
4 11	14 13.63	-21 59.5	1.518	2.487	7.5	19.3	4 11	14 11.84	-23 12.6	2.196	3.158	6.1	21.4
4 21	14 3.56	-21 30.8	1.478	2.474	4.0	19.1	4 21	14 3.29	-22 27.4	2.190	3.183	3.4	21.2
5 1	13 53.05	-20 47.9	1.465	2.461	4.6	19.1	5 1	13 54.78	-21 32.6	2.212	3.207	3.5	21.3
5 11	13 43.42	-19 56.9	1.478	2.447	8.5	19.3	5 11	13 47.17	-20 33.6	2.263	3.230	6.2	21.5
5 21	13 35.75	-19 5.2	1.515	2.433	12.7	19.5	5 21	13 41.06	-19 35.8	2.341	3.253	9.1	21.7
5 31	13 30.78	-18 20.0	1.574	2.419	16.5	19.7	5 31	13 36.88	-18 44.1	2.443	3.275	11.7	21.9
<b>326272</b>	1995 <i>BG</i> <sub>15</sub>	4 22.6 140°15	0°9/21.8	17			<b>32308</b>	Sreyavemuri	4 22.6 132°56	1°7/23.9	17		
3 22	14 26.25	-11 38.2	1.922	2.787	12.3	21.2	3 22	14 27.80	-18 7.0	2.034	2.877	12.6	19.2
4 1	14 20.16	-11 5.7	1.858	2.795	8.7	21.0	4 1	14 21.28	-18 8.3	1.965	2.887	9.3	19.0
4 11	14 12.26	-10 25.7	1.819	2.803	4.7	20.7	4 11	14 12.90	-17 58.1	1.921	2.896	5.6	18.8
4 21	14 3.34	-9 41.9	1.807	2.811	1.0	20.5	4 21	14 3.46	-17 37.9	1.904	2.906	2.1	18.6
5 1	13 54.35	-8 59.3	1.823	2.818	4.0	20.7	5 1	13 53.91	-17 10.9	1.916	2.914	3.4	18.7
5 11	13 46.27	-8 22.9	1.867	2.825	8.0	21.0	5 11	13 45.23	-16 41.6	1.956	2.923	7.0	18.9
5 21	13 39.82	-7 56.7	1.936	2.831	11.6	21.2	5 21	13 38.20	-16 14.5	2.022	2.930	10.5	19.1
5 31	13 35.50	-7 43.1	2.026	2.837	14.6	21.4	5 31	13 33.32	-15 53.8	2.111	2.938	13.5	19.3
<b>287471</b>	2003 <i>AK</i> <sub>46</sub>	4 22.6 352°34	4°9/26.7	18			<b>429239</b>	2010 <i>AR</i> <sub>75</sub>	4 22.6 151°22	5°6/16.5	17		
3 22	14 24.31	-26 53.9	1.958	2.777	14.0	19.7	3 22	14 23.83	+ 3 48.3	2.336	3.205	10.2	21.6
4 1	14 19.08	-27 14.1	1.878	2.774	11.1	19.5	4 1	14 18.13	+ 5 2.2	2.285	3.214	7.8	21.5
4 11	14 11.82	-27 16.3	1.821	2.773	8.0	19.3	4 11	14 11.04	+ 6 11.3	2.260	3.222	6.0	21.4
4 21	14 3.29	-27 0.1	1.789	2.771	5.5	19.1	4 21	14 3.19	+ 7 10.0	2.263	3.230	5.8	21.4
5 1	13 54.50	-26 27.5	1.783	2.770	5.3	19.1	5 1	13 55.34	+ 7 53.5	2.295	3.237	7.5	21.5
5 11	13 46.54	-25 43.3	1.804	2.769	7.6	19.2	5 11	13 48.22	+ 8 18.8	2.352	3.244	9.9	21.7
5 21	13 40.25	-24 53.8	1.849	2.769	10.7	19.4	5 21	13 42.40	+ 8 25.3	2.433	3.250	12.2	21.8
5 31	13 36.25	-24 5.7	1.917	2.768	13.7	19.6	5 31	13 38.28	+ 8 13.6	2.534	3.255	14.3	22.0
<b>248186</b>	2005 <i>AY</i> <sub>82</sub>	4 22.6 225°53	4°1/29.9	18			<b>125732</b>	2001 <i>XN</i> <sub>112</sub>	4 22.6 197°21	0°8/21.9	18		
3 22	14 18.80	-35 53.5	4.662	5.393	7.8	20.3	3 22	14 27.44	-13 2.0	1.831	2.693	12.9	20.3
4 1	14 14.26	-36 7.6	4.568	5.390	6.6	20.2	4 1	14 21.21	-12 15.1	1.755	2.690	9.3	20.1
4 11	14 8.83	-36 10.7	4.497	5.387	5.4	20.1	4 11	14 12.96	-11 17.5	1.703	2.687	5.1	19.8
4 21	14 2.85	-36 2.7	4.453	5.385	4.4	20.0	4 21	14 3.49	-10 13.6	1.678	2.683	0.9	19.5
5 1	13 56.77	-35 44.1	4.436	5.382	4.1	20.0	5 1	13 53.83	-9 9.3	1.682	2.677	4.3	19.7
5 11	13 51.02	-35 16.8	4.447	5.379	4.6	20.0	5 11	13 45.06	-8 11.5	1.714	2.672	8.6	20.0
5 21	13 46.00	-34 43.0	4.486	5.376	5.6	20.1	5 21	13 38.02	-7 25.3	1.770	2.665	12.5	20.2
5 31	13 42.01	-34 5.6	4.549	5.373	6.8	20.2	5 31	13 33.27	-6 54.5	1.848	2.657	15.8	20.4
<b>498664</b>	2008 <i>SZ</i> <sub>136</sub>	4 22.6 193°82	0°1/22.8	17			<b>457652</b>	2009 <i>CN</i> <sub>28</sub>	4 22.6 59°90	1°0/23.2	16		
3 22	14 23.79	-15 4.6	3.050	3.892	8.9	23.9	3 22	14 27.90	-16 7.5	1.273	2.146	16.7	21.7
4 1	14 17.95	-14 31.0	2.963	3.889	6.4	23.7	4 1	14 21.97	-15 53.6	1.224	2.162	12.1	21.4
4 11	14 10.90	-13 49.9	2.905	3.885	3.6	23.5	4 11	14 13.47	-15 24.9	1.196	2.179	6.9	21.2
4 21	14 3.15	-13 3.6	2.875	3.880	0.6	23.2	4 21	14 3.55	-14 45.0	1.193	2.197	1.6	20.9
5 1	13 55.29	-12 15.2	2.877	3.874	2.5	23.4	5 1	13 53.66	-14 0.4	1.214	2.214	4.4	21.1
5 11	13 47.95	-11 28.4	2.909	3.868	5.5	23.6	5 11	13 45.20	-13 18.5	1.261	2.232	9.5	21.5
5 21	13 41.63	-10 46.5	2.970	3.860	8.1	23.8	5 21	13 39.14	-12 45.9	1.330	2.250	14.0	21.8
5 31	13 36.73	-10 12.2	3.054	3.852	10.5	23.9	5 31	13 36.00	-12 27.0	1.418	2.267	17.8	22.1
<b>203128</b>	2000 <i>SE</i> <sub>249</sub>	4 22.6 148°98	0°4/21.9	18			<b>65301</b>	2002 <i>JP</i> <sub>48</sub>	4 22.6 344°90	1°5/23.5	17	R	

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>140576</b>	2001 TL <sub>217</sub>		4 22.6 184°66	1°3/24.1	18		<b>157673</b>	2005 YR <sub>98</sub>		4 22.6 189°74	0°3/22.4	17	
3 22	14 21.99	-19 37.2	2.282	3.125	11.4	20.0	3 22	14 29.14	-13 25.8	1.693	2.554	13.8	21.2
4 1	14 17.03	-18 58.8	2.203	3.125	8.4	19.8	4 1	14 22.58	-12 58.9	1.619	2.554	9.9	20.9
4 11	14 10.53	-18 7.3	2.149	3.125	5.1	19.6	4 11	14 13.79	-12 21.4	1.569	2.553	5.5	20.7
4 21	14 3.13	-17 5.4	2.123	3.125	1.8	19.3	4 21	14 3.65	-11 36.9	1.546	2.551	0.8	20.3
5 1	13 55.64	-15 57.5	2.125	3.124	2.9	19.4	5 1	13 53.29	-10 50.8	1.551	2.548	4.2	20.6
5 11	13 48.85	-14 49.3	2.156	3.124	6.4	19.6	5 11	13 43.92	-10 9.1	1.583	2.545	8.8	20.8
5 21	13 43.39	-13 46.2	2.214	3.123	9.7	19.8	5 21	13 36.45	-9 37.2	1.640	2.541	13.0	21.1
5 31	13 39.73	-12 52.7	2.294	3.122	12.6	20.0	5 31	13 31.49	-9 18.7	1.717	2.536	16.5	21.3
<b>352544</b>	2008 CX <sub>192</sub>		4 22.6 162°13	1°5/24.0	17		<b>285755</b>	2000 UH <sub>4</sub>		4 22.6 171°82	1°7/20.6	18	
3 22	14 24.14	-18 9.3	2.573	3.412	10.4	21.3	3 22	14 22.80	-6 30.7	3.132	3.992	8.2	21.7
4 1	14 18.42	-18 8.6	2.495	3.414	7.7	21.1	4 1	14 17.19	-6 5.1	3.060	3.996	5.8	21.5
4 11	14 11.26	-17 58.6	2.443	3.417	4.6	20.9	4 11	14 10.49	-5 37.7	3.016	3.999	3.3	21.3
4 21	14 3.24	-17 40.6	2.418	3.419	1.8	20.7	4 21	14 3.17	-5 11.0	3.002	4.001	1.7	21.2
5 1	13 55.10	-17 17.1	2.423	3.421	2.8	20.8	5 1	13 55.79	-4 47.8	3.018	4.003	3.5	21.3
5 11	13 47.57	-16 51.6	2.458	3.423	5.8	21.0	5 11	13 48.91	-4 30.6	3.063	4.005	6.0	21.5
5 21	13 41.27	-16 27.5	2.518	3.425	8.8	21.2	5 21	13 42.99	-4 21.1	3.135	4.006	8.4	21.7
5 31	13 36.66	-16 8.1	2.603	3.426	11.4	21.4	5 31	13 38.40	-4 20.6	3.231	4.006	10.4	21.8
<b>254620</b>	2005 JJ <sub>12</sub>		4 22.6 165°65	0°9/22.0	17		<b>217623</b>	2009 HY <sub>59</sub>		4 22.6 301°06	1°8/21.4	17	
3 22	14 27.84	-11 16.6	1.623	2.493	13.9	21.1	3 22	14 24.58	-10 41.3	1.402	2.285	14.8	21.0
4 1	14 21.67	-11 0.4	1.555	2.494	9.9	20.9	4 1	14 19.85	-10 3.8	1.318	2.264	10.7	20.6
4 11	14 13.28	-10 36.5	1.511	2.496	5.4	20.6	4 11	14 12.54	-9 15.6	1.256	2.243	5.9	20.3
4 21	14 3.55	-10 8.2	1.492	2.497	1.0	20.3	4 21	14 3.50	-8 21.7	1.219	2.222	1.8	20.0
5 1	13 53.64	-9 40.6	1.501	2.497	4.5	20.6	5 1	13 53.96	-7 29.5	1.207	2.202	5.6	20.2
5 11	13 44.74	-9 18.7	1.537	2.498	9.0	20.8	5 11	13 45.31	-6 46.5	1.220	2.182	10.8	20.4
5 21	13 37.76	-9 6.7	1.596	2.499	13.2	21.1	5 21	13 38.67	-6 19.0	1.254	2.162	15.6	20.6
5 31	13 33.30	-9 7.3	1.675	2.499	16.6	21.3	5 31	13 34.84	-6 10.5	1.307	2.143	19.8	20.8
<b>236778</b>	2007 PP <sub>10</sub>		4 22.6 265°40	2°5/24.7	18		<b>60217</b>	1999 VC <sub>89</sub>		4 22.6 266°13	0°3/22.4	17	
3 22	14 24.87	-20 31.5	1.986	2.828	12.9	20.5	3 22	14 24.92	-14 26.9	1.586	2.455	14.2	19.6
4 1	14 19.38	-20 30.1	1.905	2.823	9.7	20.3	4 1	14 19.74	-13 46.6	1.507	2.446	10.2	19.3
4 11	14 11.97	-20 14.9	1.847	2.819	6.2	20.1	4 11	14 12.31	-12 52.9	1.453	2.437	5.7	19.0
4 21	14 3.37	-19 47.0	1.816	2.814	2.9	19.8	4 21	14 3.45	-11 50.2	1.423	2.428	0.8	18.6
5 1	13 54.53	-19 9.7	1.812	2.810	3.6	19.9	5 1	13 54.32	-10 44.9	1.421	2.419	4.3	18.9
5 11	13 46.47	-18 27.9	1.836	2.805	7.2	20.1	5 11	13 46.11	-9 44.9	1.445	2.409	9.2	19.1
5 21	13 40.00	-17 47.1	1.885	2.801	10.8	20.3	5 21	13 39.77	-8 56.4	1.492	2.400	13.6	19.4
5 31	13 35.69	-17 12.6	1.957	2.796	14.0	20.5	5 31	13 35.95	-8 24.1	1.559	2.391	17.3	19.6
<b>173662</b>	2001 HT <sub>63</sub>		4 22.6 1°31	0°9/23.1	17		<b>505577</b>	2014 BX <sub>38</sub>		4 22.6 179°95	5°6/15.9	17	
3 22	14 23.57	-15 17.2	1.176	2.061	16.9	19.2	3 22	14 21.23	+3 55.8	2.408	3.281	9.8	21.4
4 1	14 19.27	-15 12.7	1.114	2.059	12.4	18.9	4 1	14 16.33	+5 15.3	2.351	3.281	7.5	21.3
4 11	14 12.20	-14 53.7	1.072	2.058	7.1	18.6	4 11	14 10.10	+6 30.7	2.320	3.282	5.9	21.2
4 21	14 3.41	-14 23.4	1.053	2.058	1.5	18.3	4 21	14 3.11	+7 36.2	2.317	3.282	5.9	21.2
5 1	13 54.35	-13 47.5	1.058	2.059	4.7	18.5	5 1	13 56.07	+8 26.8	2.342	3.282	7.5	21.3
5 11	13 46.54	-13 14.0	1.086	2.061	10.2	18.8	5 11	13 49.67	+8 59.2	2.393	3.281	9.8	21.4
5 21	13 41.11	-12 49.3	1.136	2.064	15.1	19.1	5 21	13 44.45	+9 12.4	2.467	3.281	12.1	21.6
5 31	13 38.73	-12 38.5	1.203	2.068	19.3	19.4	5 31	13 40.84	+9 6.9	2.560	3.280	14.1	21.7
<b>503784</b>	2016 RD <sub>42</sub>		4 22.6 248°00	1°9/20.5	17		<b>303701</b>	2005 OX <sub>26</sub>		4 22.6 285°04	4°0/19.7	17	
3 22	14 20.66	-8 49.5	2.451	3.320	9.8	21.1	3 22	14 28.01	-0 8.5	2.218	3.083	10.8	20.3
4 1	14 15.97	-7 54.6	2.372	3.312	6.9	20.9	4 1	14 21.47	+0 1.8	2.127	3.061	8.0	20.0
4 11	14 9.92	-6 54.3	2.320	3.305	3.8	20.7	4 11	14 13.10	+0 9.0	2.062	3.038	5.2	19.8
4 21	14 3.07	-5 52.9	2.296	3.297	1.9	20.5	4 21	14 3.57	+0 9.6	2.025	3.015	4.0	19.7
5 1	13 56.09	-4 55.0	2.302	3.290	4.2	20.7	5 1	13 53.71	+0 0.1	2.017	2.991	6.0	19.8
5 11	13 49.69	-4 5.3	2.336	3.282	7.3	20.9	5 11	13 44.45	+0 21.6	2.037	2.968	9.1	19.9
5 21	13 44.45	-3 27.1	2.395	3.274	10.3	21.0	5 21	13 36.55	+0 56.3	2.082	2.945	12.3	20.1
5 31	13 40.79	-3 2.5	2.476	3.266	12.8	21.2	5 31	13 30.61	+1 43.9	2.149	2.921	15.1	20.2
<b>508288</b>	2015 KP <sub>12</sub>		4 22.6 287°41	6°9/15.5	17		<b>186168</b>	2001 UO <sub>139</sub>		4 22.7 314°08	0°6/22.3	17	
3 22	14 22.26	+7 26.1	2.175	3.046	10.8	21.2	3 22	14 26.88	-11 16.2	1.502	2.377	14.5	19.9
4 1	14 17.23	+8 31.7	2.112	3.036	8.6	21.0	4 1	14 21.32	-11 17.5	1.424	2.365	10.5	19.6
4 11	14 10.66	+9 30.1	2.073	3.025	7.1	20.9	4 11	14 13.28	-11 11.5	1.368	2.353	5.8	19.3
4 21	14 3.17	+10 15.1	2.061	3.015	7.2	20.9	4 21	14 3.62	-11 0.9	1.337	2.342	0.9	18.9
5 1	13 55.56	+10 41.9	2.075	3.005	8.9	21.0	5 1	13 53.54	-10 49.8	1.333	2.330	4.6	19.2
5 11	13 48.63	+10 47.7	2.114	2.995	11.2	21.1	5 11	13 44.39	-10 43.1	1.354	2.320	9.6	19.4
5 21	13 43.02	+10 32.3	2.174	2.985	13.7	21.2	5 21	13 37.22	-10 44.7	1.398	2.309	14.1	19.6
5 31	13 39.21	+9 57.1	2.254	2.975	15.8	21.4	5 31	13 32.78	-10 57.8	1.461	2.299	17.9	19.9
<b>140938</b>	2001 VU <sub>88</sub>		4 22.6 149°98	3°5/18.1	18		<b>16592</b>	1992 TM <sub>1</sub>		4 22.7 52°41	6°4/28.4	18	
3 22	14 21.17	-1 43.4	2.846	3.715	8.6	20.6	3 22	14 24.98	-31 27.7	1.637	2.445	16.8	16.0
4 1	14 16.07	-0 36.3	2.788	3.724	6.2	20.5	4 1	14 19.82	-31 25.3	1.570	2.454	13.6	15.8
4 11	14 9.86	+0 30.4	2.757	3.732	4.1	20.3	4 11	14 12.32	-30 56.2	1.522	2.463	10.2	15.6
4 21	14 3.05	+1 32.3	2.756	3.740	3.6	20.3	4 21	14 3.46	-30 0.4	1.498	2.473	7.3	15.5
5 1	13 56.23	+2 25.4	2.784	3.748	5.2	20.4	5 1	13 54.49	-28 41.9	1.499	2.482	6.6	15.5
5 11	13 49.97	+3 6.4	2.841	3.755	7.5	20.6	5 11	13 46.69	-27 9.1	1.526	2.492	8.6	15.6
5 21	13 44.73	+3 33.6	2.923	3.762	9.8	20.7	5 21	13 40.97	-25 31.8	1.577	2.502	11.9	15.8
5 31	13 40.88	+3 46.3	3.026	3.768	11.7	20.9	5 31	13 37.91	-23 59.7	1.650	2.512	15.0	16.0
<b>471777</b>	2012 UE <sub>151</sub>		4 22.6 30°96	3°0/20.2	17		<b>89505</b>	2001 XX <sub>51</sub>		4 22.7 12°84	2°5/25.2	18	
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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>497833</b>	2006 <i>UO</i> <sub>32</sub>		4 22.7 207°58		0°1/22.6 17		<b>409021</b>	2003 <i>CL</i> <sub>1</sub>		4 22.7 75°23		0°1/22.8 18	
3 22	14 26.28	-14 23.2	2.006	2.862	12.2	22.5	3 22	14 27.44	-15 49.6	1.640	2.501	14.2	20.9
4 1	14 20.31	-13 49.3	1.924	2.857	8.8	22.3	4 1	14 21.04	-15 2.0	1.599	2.533	10.1	20.7
4 11	14 12.47	-13 4.9	1.868	2.851	4.9	22.0	4 11	14 12.74	-14 2.2	1.581	2.564	5.6	20.5
4 21	14 3.49	-12 13.4	1.840	2.845	0.7	21.7	4 21	14 3.52	-12 55.3	1.590	2.595	0.8	20.2
5 1	13 54.31	-11 19.6	1.840	2.838	3.6	21.9	5 1	13 54.50	-11 48.0	1.627	2.625	3.8	20.5
5 11	13 45.91	-10 29.2	1.869	2.830	7.7	22.2	5 11	13 46.72	-10 47.2	1.691	2.655	8.1	20.8
5 21	13 39.06	-9 47.1	1.922	2.822	11.5	22.4	5 21	13 40.88	-9 58.2	1.780	2.685	11.9	21.1
5 31	13 34.33	-9 17.2	1.998	2.813	14.6	22.6	5 31	13 37.38	-9 24.2	1.889	2.714	15.0	21.4
<b>293331</b>	2007 <i>DY</i> <sub>68</sub>		4 22.7 332°89		1°2/24.5 18		<b>238044</b>	2003 <i>AF</i> <sub>33</sub>		4 22.7 85°05		0°3/22.5 18	
3 22	14 17.44	-19 9.0	3.956	4.788	7.2	20.5	3 22	14 29.21	-13 41.6	1.312	2.186	16.2	21.1
4 1	14 13.33	-19 3.4	3.870	4.784	5.4	20.4	4 1	14 22.87	-13 14.7	1.261	2.202	11.6	20.8
4 11	14 8.36	-18 51.3	3.810	4.781	3.3	20.2	4 11	14 13.99	-12 35.7	1.233	2.218	6.4	20.6
4 21	14 2.89	-18 33.7	3.778	4.778	1.5	20.1	4 21	14 3.72	-11 49.1	1.229	2.234	0.9	20.2
5 1	13 57.33	-18 12.2	3.777	4.774	1.9	20.1	5 1	13 53.49	-11 1.9	1.251	2.249	4.7	20.6
5 11	13 52.11	-17 49.0	3.805	4.771	4.0	20.3	5 11	13 44.66	-10 21.3	1.298	2.265	9.8	20.9
5 21	13 47.60	-17 26.4	3.861	4.768	6.0	20.4	5 21	13 38.19	-9 53.0	1.368	2.280	14.3	21.2
5 31	13 44.12	-17 6.4	3.942	4.765	7.8	20.5	5 31	13 34.62	-9 40.2	1.457	2.295	18.0	21.5
<b>305597</b>	2008 <i>YY</i> <sub>118</sub>		4 22.7 187°37		1°9/21.1 16		<b>429801</b>	2012 <i>JW</i> <sub>1</sub>		4 22.7 301°17		6°5/17.6 17	
3 22	14 28.37	-9 28.7	1.928	2.792	12.3	22.6	3 22	14 24.37	+1 8.7	1.561	2.447	13.4	20.6
4 1	14 21.77	-8 44.7	1.855	2.792	8.7	22.4	4 1	14 19.42	+2 14.0	1.483	2.425	10.1	20.3
4 11	14 13.26	-7 54.0	1.807	2.791	4.8	22.1	4 11	14 12.20	+3 17.6	1.429	2.403	7.3	20.1
4 21	14 3.61	-7 1.2	1.787	2.789	1.9	21.9	4 21	14 3.50	+4 11.5	1.400	2.381	6.7	20.0
5 1	13 53.81	-6 11.8	1.796	2.787	4.7	22.1	5 1	13 54.43	+4 47.9	1.396	2.360	9.2	20.1
5 11	13 44.87	-5 31.2	1.833	2.783	8.7	22.3	5 11	13 46.17	+5 1.4	1.415	2.338	12.9	20.3
5 21	13 37.59	-5 3.2	1.895	2.778	12.3	22.5	5 21	13 39.71	+4 50.0	1.456	2.317	16.6	20.4
5 31	13 32.51	-4 50.2	1.978	2.773	15.4	22.7	5 31	13 35.73	+4 14.6	1.514	2.296	19.9	20.6
<b>301090</b>	2008 <i>US</i> <sub>341</sub>		4 22.7 87°88		1°0/23.4 18		<b>500416</b>	2012 <i>TM</i> <sub>116</sub>		4 22.7 144°21		2°1/24.7 17	
3 22	14 27.04	-17 42.0	1.358	2.225	16.3	21.2	3 22	14 23.92	-20 55.0	2.284	3.119	11.7	21.6
4 1	14 21.34	-17 5.1	1.301	2.236	11.9	20.9	4 1	14 18.45	-20 39.9	2.208	3.123	8.8	21.4
4 11	14 13.17	-16 10.8	1.265	2.247	6.8	20.7	4 11	14 11.37	-20 12.0	2.157	3.128	5.5	21.2
4 21	14 3.59	-15 3.5	1.255	2.259	1.7	20.4	4 21	14 3.36	-19 32.7	2.134	3.132	2.5	21.0
5 1	13 53.98	-13 50.9	1.270	2.270	4.3	20.6	5 1	13 55.25	-18 45.7	2.139	3.137	3.2	21.0
5 11	13 45.68	-12 42.0	1.311	2.281	9.3	20.9	5 11	13 47.86	-17 55.7	2.173	3.140	6.3	21.3
5 21	13 39.63	-11 44.5	1.374	2.292	13.8	21.2	5 21	13 41.87	-17 7.7	2.232	3.144	9.5	21.5
5 31	13 36.39	-11 3.5	1.458	2.302	17.6	21.5	5 31	13 37.75	-16 26.1	2.315	3.148	12.3	21.6
<b>180401</b>	2004 <i>BT</i> <sub>19</sub>		4 22.7 130°48		2°0/21.1 18		<b>233420</b>	2006 <i>HE</i>		4 22.7 138°98		0°1/22.6 17	
3 22	14 29.09	-8 0.4	2.004	2.867	11.9	20.9	3 22	14 23.89	-14 28.4	2.076	2.935	11.8	21.2
4 1	14 22.07	-7 32.9	1.947	2.883	8.4	20.7	4 1	14 18.46	-13 51.4	2.007	2.940	8.4	21.0
4 11	14 13.30	-7 1.6	1.916	2.899	4.7	20.5	4 11	14 11.39	-13 4.6	1.963	2.946	4.7	20.8
4 21	14 3.60	-6 30.4	1.913	2.914	2.0	20.4	4 21	14 3.36	-12 11.7	1.946	2.951	0.6	20.5
5 1	13 53.92	-6 3.4	1.939	2.929	4.5	20.6	5 1	13 55.26	-11 17.4	1.958	2.956	3.4	20.7
5 11	13 45.19	-5 44.6	1.993	2.942	8.2	20.8	5 11	13 47.95	-10 27.2	1.998	2.960	7.2	21.0
5 21	13 38.12	-5 36.6	2.073	2.955	11.5	21.0	5 21	13 42.12	-9 45.5	2.064	2.965	10.7	21.2
5 31	13 33.14	-5 40.7	2.174	2.968	14.3	21.3	5 31	13 38.22	-9 15.6	2.151	2.969	13.6	21.4
<b>91378</b>	1999 <i>JE</i> <sub>104</sub>		4 22.7 280°45		9°5/14.0 18		<b>463436</b>	2013 <i>MN</i> <sub>4</sub>		4 22.7 314°68		1°0/23.3 17	
3 22	14 24.95	+11 21.8	1.766	2.634	13.0	19.7	3 22	14 23.36	-16 32.0	1.313	2.190	16.1	21.0
4 1	14 19.49	+12 42.8	1.707	2.623	10.9	19.5	4 1	14 19.21	-16 13.7	1.228	2.168	11.9	20.6
4 11	14 12.06	+13 51.8	1.672	2.611	9.6	19.4	4 11	14 12.32	-15 38.6	1.163	2.147	6.9	20.3
4 21	14 3.45	+14 40.6	1.661	2.599	10.0	19.4	4 21	14 3.55	-14 49.3	1.122	2.126	1.7	19.9
5 1	13 54.67	+15 2.8	1.675	2.587	11.8	19.5	5 1	13 54.20	-13 51.8	1.106	2.106	4.6	20.0
5 11	13 46.76	+14 55.7	1.711	2.576	14.3	19.6	5 11	13 45.77	-12 54.6	1.113	2.086	10.2	20.3
5 21	13 40.55	+14 20.6	1.767	2.564	16.9	19.8	5 21	13 39.49	-12 6.3	1.142	2.068	15.3	20.5
5 31	13 36.57	+13 20.7	1.839	2.552	19.2	19.9	5 31	13 36.22	-11 33.4	1.190	2.049	19.8	20.7
<b>500999</b>	2013 <i>RD</i> <sub>25</sub>		4 22.7 103°57		4°1/25.8 17		<b>385167</b>	2013 <i>VF</i> <sub>5</sub>		4 22.7 195°64		19°6/ 9.4 17	
3 22	14 29.15	-24 16.4	1.958	2.779	13.9	21.5	3 22	14 38.14	+30 4.2	1.248	2.056	20.9	20.8
4 1	14 22.43	-24 41.7	1.890	2.792	10.8	21.3	4 1	14 29.54	+31 42.7	1.219	2.055	19.9	20.7
4 11	14 13.66	-24 50.9	1.847	2.805	7.4	21.1	4 11	14 17.75	+32 41.4	1.207	2.054	19.6	20.7
4 21	14 3.68	-24 43.9	1.829	2.817	4.6	21.0	4 21	14 4.27	+32 48.9	1.212	2.052	20.2	20.7
5 1	13 53.56	-24 22.7	1.839	2.830	4.7	21.0	5 1	13 50.99	+32 0.3	1.235	2.050	21.5	20.8
5 11	13 44.40	-23 51.8	1.877	2.842	7.4	21.2	5 11	13 39.66	+30 19.6	1.274	2.047	23.2	20.9
5 21	13 37.04	-23 17.2	1.940	2.853	10.6	21.4	5 21	13 31.38	+27 56.9	1.328	2.043	25.1	21.0
5 31	13 32.04	-22 44.6	2.026	2.865	13.6	21.6	5 31	13 26.66	+25 3.5	1.393	2.040	26.8	21.2
<b>150950</b>	2001 <i>TK</i> <sub>121</sub>		4 22.7 152°43		5°1/26.9 18		<b>365524</b>	2010 <i>RM</i> <sub>127</sub>		4 22.7 241°39		3°3/19.9 17	
3 22	14 29.36	-27 58.7	2.123	2.924	13.7	20.5	3 22	14 25.02	-7 3.7	1.694	2.572	12.9	21.2
4 1	14 22.57	-28 21.8	2.047	2.931	10.9	20.3	4 1	14 19.65	-5 55.9	1.619	2.562	9.2	20.9
4 11	14 13.75	-28 27.2	1.993	2.937	8.0	20.1	4 11	14 12.21	-4 41.5	1.568	2.553	5.4	20.7
4 21	14 3.70	-28 14.0	1.966	2.944	5.6	20.0	4 21	14 3.50	-3 27.1	1.544	2.542	3.4	20.5
5 1	13 53.44	-27 43.9	1.967	2.949	5.3	20.0	5 1	13 54.55	-2 20.3	1.548	2.532	6.3	20.7
5 11	13 44.07	-27 1.5	1.995	2.955	7.4	20.1	5 11	13 46.46	-1 27.9	1.577	2.521	10.4	20.9
5 21	13 36.41	-26 12.9	2.049	2.959	10.3	20.3	5 21	13 40.10	-0 54.2	1.630	2.509	14.2	21.1
5 31	13 31.06	-25 24.6	2.126	2.963	13.1	20.5	5 31	13 36.06	-0 41.1	1.702	2.498	17.5	21.3
<b>310359</b>	2011 <i>UQ</i> <sub>274</sub>		4 22.7 208°52		1°7/24.6 18		<b>504354</b>	2007 <i>TV</i> <sub>378</sub>		4 22.7 169°26		1°6/	

EPHEMERIDES

4 22.7

4 22.7

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>37679</b>	1995 <i>DH</i> <sub>5</sub>		4 22.7 301°50	0°5/22.9	17		<b>191696</b>	2004 <i>RB</i> <sub>160</sub>		4 22.7 188°81	5°3/27.2	17	
3 22	14 24.99	-15 44.3	1.351	2.226	15.8	19.5	3 22	14 27.36	-28 47.2	2.117	2.917	13.7	20.4
4 1	14 20.21	-15 18.6	1.273	2.213	11.6	19.2	4 1	14 21.24	-29 5.8	2.034	2.917	11.0	20.3
4 11	14 12.78	-14 37.1	1.216	2.200	6.6	18.8	4 11	14 13.08	-29 6.0	1.974	2.916	8.2	20.1
4 21	14 3.61	-13 43.4	1.183	2.188	1.2	18.4	4 21	14 3.67	-28 46.9	1.939	2.915	5.8	19.9
5 1	13 54.01	-12 43.8	1.176	2.175	4.6	18.6	5 1	13 53.99	-28 10.2	1.932	2.914	5.5	19.9
5 11	13 45.43	-11 47.0	1.193	2.163	10.0	18.9	5 11	13 45.14	-27 20.7	1.952	2.912	7.5	20.0
5 21	13 39.01	-11 0.6	1.232	2.152	14.9	19.1	5 21	13 37.94	-26 24.8	1.997	2.910	10.4	20.2
5 31	13 35.50	-10 30.4	1.290	2.140	19.1	19.4	5 31	13 33.02	-25 29.1	2.066	2.908	13.2	20.4
<b>377421</b>	2004 <i>TU</i> <sub>138</sub>		4 22.7 196°32	4°1/26.0	17		<b>230061</b>	2000 <i>SH</i> <sub>288</sub>		4 22.7 192°89	4°7/27.1	17	
3 22	14 27.79	-25 14.1	2.184	2.997	12.9	21.3	3 22	14 27.41	-28 38.0	2.365	3.160	12.6	21.0
4 1	14 21.44	-25 30.9	2.099	2.995	10.1	21.1	4 1	14 21.09	-28 48.7	2.278	3.158	10.1	20.8
4 11	14 13.15	-25 32.4	2.038	2.993	7.1	20.9	4 11	14 12.94	-28 42.3	2.214	3.156	7.4	20.7
4 21	14 3.64	-25 18.0	2.004	2.990	4.5	20.8	4 21	14 3.65	-28 18.5	2.176	3.153	5.2	20.5
5 1	13 53.87	-24 49.6	1.998	2.987	4.5	20.8	5 1	13 54.13	-27 38.9	2.167	3.149	4.9	20.5
5 11	13 44.86	-24 11.6	2.020	2.984	7.1	20.9	5 11	13 45.34	-26 47.9	2.186	3.145	6.9	20.6
5 21	13 37.42	-23 29.4	2.068	2.980	10.2	21.1	5 21	13 38.05	-25 51.3	2.231	3.141	9.6	20.8
5 31	13 32.14	-22 48.8	2.139	2.975	13.1	21.3	5 31	13 32.82	-24 55.2	2.300	3.136	12.3	20.9
<b>351890</b>	2006 <i>SU</i> <sub>216</sub>		4 22.7 115°23	2°6/19.8	17		<b>313722</b>	2003 <i>UL</i> <sub>151</sub>		4 22.7 170°95	1°8/21.1	16	
3 22	14 21.07	-7 11.1	2.244	3.118	10.4	21.2	3 22	14 27.28	-9 25.4	2.000	2.864	11.9	21.8
4 1	14 16.32	-6 5.4	2.180	3.122	7.3	21.0	4 1	14 20.92	-8 42.3	1.931	2.869	8.4	21.6
4 11	14 10.16	-4 55.5	2.141	3.125	4.2	20.8	4 11	14 12.79	-7 53.1	1.888	2.872	4.6	21.4
4 21	14 3.20	-3 46.6	2.131	3.128	2.7	20.7	4 21	14 3.62	-7 2.2	1.873	2.875	1.8	21.2
5 1	13 56.18	-2 44.0	2.149	3.132	4.9	20.9	5 1	13 54.36	-6 14.8	1.887	2.877	4.5	21.4
5 11	13 49.84	-1 52.6	2.195	3.135	8.1	21.1	5 11	13 45.95	-5 36.0	1.928	2.879	8.3	21.6
5 21	13 44.78	-1 15.5	2.265	3.138	11.0	21.2	5 21	13 39.12	-5 9.3	1.995	2.879	11.8	21.8
5 31	13 41.40	-0 54.2	2.357	3.142	13.6	21.4	5 31	13 34.36	-4 56.9	2.083	2.879	14.7	22.0
<b>236161</b>	2005 <i>UQ</i> <sub>409</sub>		4 22.7 86°92	1°9/21.5	18		<b>160633</b>	1999 <i>VC</i> <sub>46</sub>		4 22.7 230°57	6°9/28.5	18	
3 22	14 28.95	-9 55.4	1.300	2.181	15.9	20.6	3 22	14 28.17	-33 20.3	1.284	2.097	20.3	19.9
4 1	14 22.74	-9 24.2	1.247	2.192	11.3	20.4	4 1	14 22.84	-32 32.9	1.201	2.090	16.6	19.6
4 11	14 13.97	-8 45.0	1.216	2.203	6.2	20.1	4 11	14 14.36	-31 4.4	1.136	2.082	12.3	19.3
4 21	14 3.75	-8 3.4	1.210	2.213	1.9	19.9	4 21	14 3.88	-28 54.0	1.093	2.074	8.2	19.0
5 1	13 53.50	-7 26.1	1.229	2.224	5.6	20.1	5 1	13 53.09	-26 8.5	1.075	2.066	7.0	19.0
5 11	13 44.60	-6 59.7	1.273	2.234	10.6	20.4	5 11	13 43.76	-23 3.9	1.083	2.057	10.3	19.1
5 21	13 38.03	-6 48.1	1.340	2.245	15.0	20.7	5 21	13 37.14	-19 59.4	1.115	2.048	15.0	19.3
5 31	13 34.37	-6 53.4	1.424	2.255	18.7	21.0	5 31	13 33.95	-17 12.2	1.169	2.038	19.5	19.6
<b>216641</b>	2003 <i>GS</i> <sub>42</sub>		4 22.7 354°39	11°4/10.4	17		<b>370093</b>	2001 <i>SZ</i> <sub>320</sub>		4 22.7 244°03	0°9/23.3	17	
3 22	14 20.10	+16 21.3	1.718	2.583	13.5	19.7	3 22	14 26.89	-16 11.7	1.976	2.828	12.6	22.5
4 1	14 16.03	+18 6.7	1.678	2.578	12.0	19.6	4 1	14 20.93	-15 58.3	1.886	2.814	9.2	22.2
4 11	14 10.14	+19 34.5	1.661	2.574	11.4	19.6	4 11	14 12.95	-15 33.7	1.820	2.800	5.4	22.0
4 21	14 3.20	+20 35.9	1.666	2.571	12.1	19.6	4 21	14 3.67	-14 59.9	1.781	2.785	1.3	21.7
5 1	13 56.21	+21 5.1	1.694	2.569	13.7	19.7	5 1	13 54.05	-14 20.7	1.771	2.770	3.5	21.8
5 11	13 50.11	+21 0.5	1.742	2.568	15.8	19.8	5 11	13 45.15	-13 41.2	1.789	2.754	7.7	22.0
5 21	13 45.63	+20 24.4	1.807	2.567	17.8	20.0	5 21	13 37.82	-13 6.6	1.831	2.738	11.6	22.2
5 31	13 43.26	+19 21.0	1.886	2.567	19.7	20.1	5 31	13 32.69	-12 41.2	1.896	2.721	14.9	22.4
<b>423893</b>	2006 <i>SL</i> <sub>62</sub>		4 22.7 242°26	0°1/22.8	17		<b>169153</b>	2001 <i>QV</i> <sub>166</sub>		4 22.7 173°44	5°1/17.0	18	
3 22	14 27.51	-14 28.9	1.927	2.783	12.6	22.0	3 22	14 22.86	+3 31.6	2.496	3.365	9.7	20.2
4 1	14 21.41	-14 6.9	1.836	2.767	9.2	21.7	4 1	14 17.48	+4 29.7	2.437	3.367	7.3	20.0
4 11	14 13.22	-13 34.2	1.769	2.751	5.2	21.5	4 11	14 10.77	+5 23.6	2.405	3.369	5.5	19.9
4 21	14 3.68	-12 53.6	1.729	2.734	0.8	21.1	4 21	14 3.33	+6 8.5	2.400	3.370	5.3	19.9
5 1	13 53.77	-12 9.3	1.718	2.716	3.7	21.3	5 1	13 55.83	+6 40.1	2.424	3.371	6.9	20.0
5 11	13 44.59	-11 27.0	1.735	2.698	8.1	21.5	5 11	13 48.97	+6 55.9	2.474	3.372	9.2	20.1
5 21	13 37.02	-10 51.7	1.777	2.679	12.1	21.7	5 21	13 43.30	+6 55.0	2.548	3.372	11.5	20.3
5 31	13 31.71	-10 27.8	1.841	2.659	15.5	21.9	5 31	13 39.21	+6 38.0	2.642	3.372	13.5	20.4
<b>88475</b>	2001 <i>QO</i> <sub>113</sub>		4 22.7 251°59	2°6/20.5	18 R		<b>141811</b>	2002 <i>NL</i> <sub>42</sub>		4 22.7 274°70	1°9/21.4	17	
3 22	14 25.46	-7 20.4	1.928	2.799	11.9	20.1	3 22	14 26.58	-9 47.4	1.647	2.520	13.5	20.9
4 1	14 19.83	-6 36.0	1.844	2.785	8.5	19.8	4 1	14 21.04	-9 13.0	1.558	2.499	9.7	20.6
4 11	14 12.29	-5 46.3	1.785	2.769	4.9	19.6	4 11	14 13.15	-8 30.3	1.492	2.478	5.4	20.3
4 21	14 3.54	-4 56.2	1.753	2.753	2.6	19.4	4 21	14 3.71	-7 43.7	1.453	2.456	1.9	20.0
5 1	13 54.50	-4 11.1	1.750	2.737	5.3	19.5	5 1	13 53.81	-6 59.3	1.441	2.434	5.2	20.2
5 11	13 46.18	-3 36.4	1.773	2.720	9.2	19.7	5 11	13 44.68	-6 23.4	1.454	2.411	9.9	20.4
5 21	13 39.39	-3 15.8	1.821	2.703	12.8	19.9	5 21	13 37.33	-6 0.9	1.492	2.389	14.3	20.6
5 31	13 34.72	-3 11.2	1.890	2.686	16.0	20.1	5 31	13 32.50	-5 55.0	1.548	2.366	18.0	20.8
<b>427145</b>	2014 <i>UM</i> <sub>148</sub>		4 22.7 167°38	0°1/22.7	15		<b>434471</b>	2005 <i>QW</i> <sub>92</sub>		4 22.7 253°87	2°5/19.7	17	
3 22	14 27.15	-14 44.8	1.994	2.849	12.3	23.2	3 22	14 22.32	-5 11.6	2.772	3.638	8.9	21.7
4 1	14 20.87	-14 12.4	1.923	2.854	8.9	23.0	4 1	14 17.14	-4 25.9	2.680	3.617	6.4	21.5
4 11	14 12.77	-13 29.7	1.876	2.858	5.0	22.8	4 11	14 10.64	-3 37.7	2.614	3.596	3.8	21.3
4 21	14 3.60	-12 39.9	1.857	2.862	0.7	22.5	4 21	14 3.32	-2 50.5	2.578	3.573	2.6	21.2
5 1	13 54.32	-11 47.9	1.867	2.865	3.5	22.7	5 1	13 55.80	-2 8.3	2.571	3.551	4.5	21.3
5 11	13 45.91	-10 59.3	1.905	2.867	7.6	22.9	5 11	13 48.74	-1 34.8	2.593	3.528	7.3	21.4
5 21	13 39.10	-10 18.8	1.969	2.868	11.2	23.2	5 21	13 42.69	-1 12.3	2.641	3.504	10.0	21.6
5 31	13 34.42	-9 50.1	2.055	2.869	14.3	23.4	5 31	13 38.10	-1 2.5	2.711	3.480	12.4	21.7
<b>232945</b>	2005 <i>CD</i> <sub>45</sub>		4 22.7 247°06	1°7/21.2	17		<b>203318</b>	2001 <i>TN</i> <sub>66</sub>		4 22.7 217°81	0°4/22		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>145633</b>	2227 <i>P-L</i>		4 22.7 190°91	1.6°/24.0	17		<b>386510</b>	2009 <i>BP</i> <sub>109</sub>		4 22.7 17°18	6°1/17.0	17	
3 22	14 27.61	-18 46.8	2.108	2.947	12.4	21.7	3 22	14 21.68	+ 2 18.0	1.867	2.749	11.7	20.9
4 1	14 21.25	-18 32.1	2.026	2.946	9.2	21.5	4 1	14 17.00	+ 3 30.0	1.813	2.751	8.8	20.7
4 11	14 13.03	-18 4.8	1.969	2.944	5.5	21.3	4 11	14 10.64	+ 4 37.8	1.785	2.754	6.6	20.6
4 21	14 3.68	-17 26.7	1.940	2.942	2.0	21.0	4 21	14 3.35	+ 5 34.6	1.782	2.757	6.3	20.5
5 1	13 54.13	-16 41.5	1.940	2.938	3.3	21.1	5 1	13 56.00	+ 6 14.6	1.806	2.760	8.3	20.7
5 11	13 45.37	-15 54.3	1.968	2.934	7.0	21.3	5 11	13 49.47	+ 6 34.1	1.854	2.764	11.1	20.8
5 21	13 38.17	-15 10.3	2.023	2.930	10.6	21.5	5 21	13 44.45	+ 6 32.2	1.925	2.768	13.9	21.0
5 31	13 33.08	-14 34.3	2.100	2.924	13.7	21.7	5 31	13 41.38	+ 6 10.0	2.014	2.772	16.4	21.2
<b>302213</b>	2001 <i>UT</i> <sub>173</sub>		4 22.7 132°54	2°6/21.3	18		<b>113866</b>	2002 <i>TZ</i> <sub>256</sub>		4 22.7 161°40	0°9/21.7	18	
3 22	14 31.14	- 6 36.6	1.395	2.273	15.2	20.5	3 22	14 22.94	-11 31.5	2.428	3.288	10.2	20.7
4 1	14 24.35	- 6 30.1	1.332	2.275	10.9	20.3	4 1	14 17.62	-10 51.2	2.357	3.292	7.2	20.5
4 11	14 14.95	- 6 20.8	1.291	2.276	6.2	20.0	4 11	14 10.90	-10 4.5	2.312	3.296	3.9	20.3
4 21	14 3.97	- 6 13.1	1.276	2.278	2.6	19.8	4 21	14 3.39	- 9 14.8	2.296	3.300	1.0	20.0
5 1	13 52.78	- 6 11.4	1.287	2.279	5.9	20.0	5 1	13 55.80	- 8 26.3	2.309	3.303	3.4	20.2
5 11	13 42.79	- 6 19.9	1.323	2.280	10.7	20.3	5 11	13 48.87	- 7 43.4	2.350	3.305	6.8	20.5
5 21	13 35.07	- 6 40.8	1.382	2.281	15.0	20.5	5 21	13 43.17	- 7 9.4	2.418	3.308	9.8	20.7
5 31	13 30.26	- 7 15.1	1.460	2.282	18.7	20.8	5 31	13 39.13	- 6 46.7	2.508	3.310	12.4	20.8
<b>406399</b>	2007 <i>TG</i> <sub>73</sub>		4 22.7 232°72	0°2/22.6	16	R	<b>192709</b>	1999 <i>TM</i> <sub>105</sub>		4 22.7 208°53	0°6/21.9	18	
3 22	14 29.64	-12 41.5	1.683	2.546	13.8	21.9	3 22	14 24.03	-12 28.6	2.701	3.553	9.6	22.1
4 1	14 23.13	-12 35.0	1.602	2.537	10.0	21.6	4 1	14 18.35	-11 48.6	2.614	3.546	6.8	21.9
4 11	14 14.27	-12 19.7	1.544	2.527	5.6	21.3	4 11	14 11.31	-11 1.6	2.554	3.537	3.7	21.7
4 21	14 3.88	-11 58.3	1.513	2.518	0.8	20.9	4 21	14 3.45	-10 10.5	2.524	3.528	0.7	21.5
5 1	13 53.13	-11 34.6	1.510	2.507	4.2	21.2	5 1	13 55.45	- 9 19.1	2.524	3.518	3.1	21.7
5 11	13 43.27	-11 13.9	1.533	2.497	8.9	21.4	5 11	13 48.01	- 8 31.7	2.553	3.508	6.3	21.8
5 21	13 35.30	-11 0.7	1.581	2.485	13.2	21.6	5 21	13 41.68	- 7 51.8	2.610	3.496	9.3	22.0
5 31	13 29.91	-10 58.5	1.650	2.474	16.8	21.8	5 31	13 36.91	- 7 21.9	2.690	3.484	11.8	22.2
<b>491600</b>	2012 <i>SG</i> <sub>64</sub>		4 22.7 184°13	2°5/25.5	17		<b>499120</b>	2009 <i>HA</i> <sub>104</sub>		4 22.7 332°99	0°9/22.2	17	
3 22	14 23.40	-23 50.3	2.433	3.255	11.5	21.4	3 22	14 22.97	-12 0.3	1.166	2.058	16.5	21.1
4 1	14 18.05	-23 15.3	2.350	3.255	8.8	21.2	4 1	14 19.07	-11 42.9	1.092	2.042	12.0	20.8
4 11	14 11.16	-22 24.9	2.291	3.255	5.7	21.0	4 11	14 12.31	-11 13.8	1.039	2.027	6.6	20.4
4 21	14 3.40	-21 21.0	2.259	3.254	3.0	20.8	4 21	14 3.64	-10 37.4	1.008	2.013	1.1	20.0
5 1	13 55.54	-20 7.7	2.257	3.253	3.2	20.8	5 1	13 54.47	-10 0.5	1.001	1.999	5.4	20.2
5 11	13 48.38	-18 50.4	2.284	3.252	6.1	21.0	5 11	13 46.37	- 9 30.9	1.016	1.988	11.2	20.5
5 21	13 42.54	-17 35.1	2.338	3.250	9.1	21.2	5 21	13 40.59	- 9 15.0	1.052	1.977	16.4	20.8
5 31	13 38.48	-16 27.0	2.416	3.248	11.9	21.4	5 31	13 37.96	- 9 16.7	1.105	1.967	20.8	21.0
<b>232906</b>	2004 <i>XG</i> <sub>121</sub>		4 22.7 43°10	3°3/25.4	18		<b>241495</b>	2009 <i>BD</i> <sub>184</sub>		4 22.7 282°04	3°2/20.2	17	
3 22	14 24.53	-22 52.5	1.525	2.373	15.8	19.7	3 22	14 25.32	- 3 41.0	2.095	2.967	11.1	20.1
4 1	14 19.34	-22 38.4	1.475	2.395	11.9	19.5	4 1	14 19.53	- 3 20.0	2.023	2.962	8.0	19.9
4 11	14 12.00	-22 4.6	1.448	2.418	7.7	19.3	4 11	14 12.05	- 2 59.0	1.976	2.958	4.8	19.6
4 21	14 3.52	-21 13.8	1.445	2.442	3.9	19.1	4 21	14 3.57	- 2 41.7	1.957	2.953	3.2	19.5
5 1	13 55.09	-20 11.7	1.468	2.465	4.3	19.2	5 1	13 54.93	- 2 31.8	1.966	2.949	5.3	19.7
5 11	13 47.89	-19 6.1	1.516	2.490	8.0	19.4	5 11	13 47.01	- 2 32.4	2.003	2.944	8.6	19.8
5 21	13 42.71	-18 4.7	1.589	2.514	11.8	19.7	5 21	13 40.53	- 2 45.2	2.064	2.940	11.8	20.0
5 31	13 40.02	-17 13.6	1.683	2.539	15.1	20.0	5 31	13 35.98	- 3 10.6	2.146	2.936	14.6	20.2
<b>31079</b>	1996 <i>XS</i> <sub>5</sub>		4 22.7 71°94	2°7/20.2	18		<b>282763</b>	2006 <i>HA</i> <sub>68</sub>		4 22.7 232°14	0°7/23.4	18	
3 22	14 23.14	- 5 36.1	2.131	3.004	10.9	18.6	3 22	14 23.15	-17 5.9	2.015	2.870	12.2	20.8
4 1	14 17.83	- 4 58.1	2.074	3.015	7.7	18.4	4 1	14 18.10	-16 31.1	1.938	2.868	8.9	20.6
4 11	14 11.02	- 4 18.3	2.042	3.026	4.5	18.2	4 11	14 11.30	-15 43.8	1.885	2.866	5.1	20.4
4 21	14 3.38	- 3 40.9	2.038	3.036	2.8	18.1	4 21	14 3.46	-14 47.3	1.860	2.863	1.2	20.1
5 1	13 55.72	- 3 10.3	2.063	3.047	4.9	18.3	5 1	13 55.48	-13 46.3	1.862	2.861	3.3	20.3
5 11	13 48.84	- 2 50.1	2.114	3.058	8.1	18.5	5 11	13 48.25	-12 46.9	1.892	2.859	7.2	20.5
5 21	13 43.33	- 2 42.4	2.190	3.069	11.1	18.7	5 21	13 42.53	-11 54.5	1.948	2.856	10.8	20.7
5 31	13 40.02	- 2 48.0	2.288	3.079	13.7	18.9	5 31	13 38.80	-11 13.3	2.025	2.854	14.0	20.9
<b>348831</b>	2006 <i>RD</i> <sub>78</sub>		4 22.7 120°91	0°9/21.8	17		<b>390119</b>	2012 <i>VC</i> <sub>45</sub>		4 22.7 151°73	2°5/19.9	17	
3 22	14 23.10	-11 9.0	2.561	3.420	9.8	21.8	3 22	14 22.60	- 5 33.3	2.626	3.493	9.3	21.7
4 1	14 17.62	-10 38.3	2.498	3.433	6.9	21.6	4 1	14 17.25	- 4 48.3	2.562	3.500	6.6	21.6
4 11	14 10.84	-10 2.2	2.462	3.446	3.7	21.4	4 11	14 10.65	- 4 1.4	2.525	3.507	3.9	21.4
4 21	14 3.36	- 9 23.9	2.454	3.458	0.9	21.2	4 21	14 3.36	- 3 16.4	2.517	3.513	2.5	21.3
5 1	13 55.85	- 8 46.9	2.476	3.470	3.2	21.4	5 1	13 56.03	- 2 37.1	2.538	3.519	4.4	21.4
5 11	13 49.01	- 8 14.7	2.527	3.482	6.3	21.6	5 11	13 49.30	- 2 7.0	2.587	3.525	7.1	21.6
5 21	13 43.35	- 7 50.4	2.604	3.493	9.2	21.8	5 21	13 43.71	- 1 48.1	2.662	3.530	9.8	21.8
5 31	13 39.28	- 7 35.7	2.704	3.504	11.6	22.0	5 31	13 39.64	- 1 41.6	2.760	3.534	12.0	22.0
<b>34021</b>	Suhanijain		4 22.7 274°64	0°4/22.4	18		<b>8004</b>	1987 <i>RX</i>		4 22.7 277°45	0°8/21.9	18	
3 22	14 27.35	-13 6.2	1.425	2.299	15.2	18.4	3 22	14 22.26	-11 49.8	2.473	3.333	10.0	18.7
4 1	14 21.80	-12 46.1	1.347	2.288	11.0	18.1	4 1	14 17.30	-11 17.6	2.375	3.311	7.2	18.5
4 11	14 13.66	-12 14.6	1.292	2.277	6.1	17.8	4 11	14 10.83	-10 38.3	2.304	3.288	4.0	18.3
4 21	14 3.81	-11 35.0	1.261	2.266	0.9	17.4	4 21	14 3.41	- 9 54.9	2.261	3.265	0.8	18.0
5 1	13 53.56	-10 53.4	1.257	2.255	4.7	17.7	5 1	13 55.72	- 9 11.1	2.247	3.242	3.4	18.1
5 11	13 44.30	-10 16.6	1.277	2.243	10.0	17.9	5 11	13 48.54	- 8 31.3	2.261	3.218	6.9	18.3
5 21	13 37.16	- 9 50.6	1.320	2.232	14.7	18.2	5 21	13 42.50	- 7 59.2	2.301	3.194	10.1	18.5
5 31	13 32.86	- 9 39.6	1.382	2.221	18.7	18.4	5 31	13 38.11	- 7 37.6	2.364	3.170	12.9	18.6
<b>130097</b>	1999 <i>XW</i> <sub>20</sub>		4 22.7 136°18	0°2/22.9	18		<b>102849</b>	1999 <i>VT</i> <sub>210</sub>		4 22.7 152°26</			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>520979</b>	2015 <i>AC</i> <sub>285</sub>		4 22.7 46°45'	10°1'	1.1	17	<b>467628</b>	2008 <i>KK</i> <sub>42</sub>		4 22.7 258°12'	9°7'	11.8	18
3 22	14 28.81	-37 46.6	1.551	2.324	19.1	20.4	3 22	14 27.01	+16 10.8	2.210	3.052	11.8	21.7
4 1	14 22.97	-38 39.5	1.493	2.341	16.3	20.2	4 1	14 20.84	+17 36.2	2.139	3.027	10.3	21.5
4 11	14 14.29	-39 1.9	1.454	2.358	13.4	20.1	4 11	14 12.86	+18 49.0	2.093	3.002	9.7	21.4
4 21	14 3.91	-38 50.2	1.436	2.375	11.1	20.0	4 21	14 3.74	+19 41.8	2.072	2.975	10.2	21.4
5 1	13 53.37	-38 5.5	1.440	2.393	10.1	19.9	5 1	13 54.35	+20 8.8	2.076	2.948	11.7	21.4
5 11	13 44.24	-36 54.7	1.468	2.412	11.0	20.0	5 11	13 45.62	+20 7.6	2.104	2.920	13.8	21.5
5 21	13 37.62	-35 28.4	1.519	2.430	13.2	20.2	5 21	13 38.32	+19 38.9	2.151	2.891	15.9	21.6
5 31	13 34.14	-33 57.9	1.590	2.449	15.7	20.4	5 31	13 32.99	+18 45.6	2.214	2.862	17.8	21.7
<b>299333</b>	2005 <i>QF</i> <sub>187</sub>		4 22.7 183°62'	0°8'/21.8	17		<b>90311</b>	2003 <i>FM</i> <sub>19</sub>		4 22.7 317°50'	6°2'/17.9	18	
3 22	14 21.33	-12 19.5	2.585	3.444	9.7	21.4	3 22	14 22.69	- 0 35.9	1.460	2.352	13.8	18.8
4 1	14 16.44	-11 33.3	2.509	3.445	6.9	21.2	4 1	14 18.32	+ 0 36.2	1.389	2.335	10.3	18.5
4 11	14 10.25	-10 40.1	2.460	3.444	3.7	21.0	4 11	14 11.67	+ 1 48.4	1.340	2.318	7.1	18.3
4 21	14 3.31	- 9 43.4	2.440	3.444	0.8	20.8	4 21	14 3.57	+ 2 52.4	1.316	2.302	6.4	18.2
5 1	13 56.29	- 8 47.3	2.449	3.443	3.2	20.9	5 1	13 55.15	+ 3 39.4	1.317	2.286	9.1	18.3
5 11	13 49.86	- 7 56.3	2.487	3.443	6.4	21.2	5 11	13 47.62	+ 4 3.4	1.341	2.271	13.0	18.5
5 21	13 44.55	- 7 13.8	2.551	3.441	9.3	21.3	5 21	13 41.95	+ 4 2.0	1.385	2.256	16.8	18.7
5 31	13 40.78	- 6 42.5	2.638	3.440	11.8	21.5	5 31	13 38.80	+ 3 35.7	1.447	2.242	20.1	18.9
<b>507011</b>	2008 <i>TH</i> <sub>163</sub>		4 22.7 168°43'	2°8'/19.9	17		<b>119380</b>	2001 <i>SK</i> <sub>325</sub>		4 22.7 161°34'	3°9'/18.6	17	
3 22	14 25.27	- 4 5.7	2.571	3.435	9.6	22.1	3 22	14 24.42	- 3 8.6	2.234	3.105	10.5	20.8
4 1	14 19.18	- 3 30.2	2.504	3.439	6.8	21.9	4 1	14 18.72	- 1 53.4	2.174	3.112	7.6	20.6
4 11	14 11.74	- 2 54.1	2.464	3.444	4.1	21.7	4 11	14 11.54	- 0 37.1	2.140	3.118	4.8	20.4
4 21	14 3.54	- 2 20.8	2.452	3.447	2.8	21.6	4 21	14 3.53	+ 0 34.6	2.135	3.123	4.0	20.4
5 1	13 55.28	- 1 53.9	2.471	3.450	4.7	21.8	5 1	13 55.49	+ 1 35.9	2.159	3.128	6.1	20.5
5 11	13 47.66	- 1 36.5	2.519	3.453	7.5	21.9	5 11	13 48.19	+ 2 22.4	2.210	3.132	9.0	20.7
5 21	13 41.24	- 1 30.3	2.592	3.454	10.1	22.1	5 21	13 42.24	+ 2 51.9	2.286	3.136	11.8	20.9
5 31	13 36.45	- 1 36.1	2.687	3.456	12.5	22.3	5 31	13 38.07	+ 3 3.7	2.383	3.139	14.2	21.1
<b>342290</b>	2008 <i>TS</i> <sub>32</sub>		4 22.7 228°26'	1°3'/21.5	17		<b>18485</b>	1996 <i>AB</i>		4 22.7 131°54'	1°0'/23.8	18	
3 22	14 23.89	-10 48.6	2.074	2.940	11.4	21.2	3 22	14 22.78	-17 44.3	2.641	3.482	10.1	18.8
4 1	14 18.58	-10 6.8	1.996	2.934	8.1	21.0	4 1	14 17.46	-17 24.4	2.569	3.491	7.4	18.6
4 11	14 11.56	- 9 17.7	1.943	2.928	4.4	20.8	4 11	14 10.81	-16 55.2	2.523	3.499	4.3	18.4
4 21	14 3.52	- 8 25.2	1.918	2.921	1.3	20.5	4 21	14 3.43	-16 18.7	2.505	3.508	1.4	18.2
5 1	13 55.31	- 7 34.5	1.921	2.915	4.1	20.7	5 1	13 55.98	-15 38.1	2.517	3.516	2.6	18.3
5 11	13 47.81	- 6 50.7	1.952	2.907	7.9	20.9	5 11	13 49.15	-14 57.2	2.558	3.523	5.7	18.5
5 21	13 41.74	- 6 17.9	2.009	2.900	11.4	21.1	5 21	13 43.50	-14 19.9	2.625	3.531	8.5	18.7
5 31	13 37.60	- 5 58.6	2.086	2.893	14.4	21.3	5 31	13 39.43	-13 49.2	2.717	3.538	11.0	18.9
<b>200750</b>	Rix		4 22.7 59°39'	5°7'/18.7	18		<b>313796</b>	2003 <i>YV</i> <sub>168</sub>		4 22.7 28°75'	9°8'/30.2	17	
3 22	14 25.23	- 3 56.2	1.213	2.108	15.7	19.9	3 22	14 26.40	-35 16.1	1.341	2.142	20.1	19.7
4 1	14 20.08	- 2 24.9	1.171	2.121	11.3	19.7	4 1	14 21.53	-35 58.2	1.278	2.150	17.0	19.5
4 11	14 12.51	- 0 52.0	1.152	2.135	7.1	19.5	4 11	14 13.64	-36 7.9	1.234	2.158	13.6	19.3
4 21	14 3.65	+ 0 32.0	1.157	2.149	5.8	19.4	4 21	14 3.87	-35 41.9	1.209	2.167	10.8	19.2
5 1	13 54.86	+ 1 37.2	1.187	2.164	8.8	19.6	5 1	13 53.84	-34 41.9	1.207	2.176	9.8	19.1
5 11	13 47.45	+ 2 17.1	1.239	2.178	13.0	19.9	5 11	13 45.24	-33 16.2	1.228	2.186	11.2	19.2
5 21	13 42.29	+ 2 29.9	1.312	2.193	16.9	20.2	5 21	13 39.28	-31 37.0	1.271	2.197	14.0	19.4
5 31	13 39.88	+ 2 16.9	1.401	2.207	20.1	20.5	5 31	13 36.64	-29 57.2	1.334	2.208	17.2	19.7
<b>151059</b>	2001 <i>VF</i> <sub>18</sub>		4 22.7 204°53'	0°1'/22.7	17		<b>250565</b>	2004 <i>RL</i> <sub>335</sub>		4 22.7 295°86'	2°4'/24.4	18	
3 22	14 26.08	-14 13.1	1.946	2.805	12.4	20.8	3 22	14 27.02	-18 58.3	2.237	3.074	11.8	19.9
4 1	14 20.26	-13 50.0	1.869	2.802	9.0	20.6	4 1	14 21.03	-19 24.6	2.134	3.051	8.9	19.7
4 11	14 12.54	-13 17.0	1.816	2.799	5.0	20.4	4 11	14 13.08	-19 41.4	2.056	3.027	5.7	19.4
4 21	14 3.67	-12 37.3	1.791	2.795	0.7	20.0	4 21	14 3.80	-19 48.6	2.005	3.003	2.7	19.2
5 1	13 54.61	-11 55.1	1.794	2.792	3.6	20.2	5 1	13 54.05	-19 47.3	1.983	2.980	3.5	19.2
5 11	13 46.36	-11 15.8	1.824	2.788	7.7	20.5	5 11	13 44.80	-19 40.4	1.990	2.956	7.0	19.4
5 21	13 39.69	-10 44.0	1.880	2.783	11.5	20.7	5 21	13 36.92	-19 31.7	2.022	2.932	10.4	19.5
5 31	13 35.17	-10 23.3	1.957	2.778	14.7	20.9	5 31	13 31.08	-19 25.4	2.078	2.909	13.6	19.7
<b>508282</b>	2015 <i>HT</i> <sub>185</sub>		4 22.7 189°87'	3°5'/26.7	17		<b>153138</b>	2000 <i>SW</i> <sub>191</sub>		4 22.7 210°79'	1°0'/21.8	18	
3 22	14 22.80	-27 0.6	2.451	3.259	11.8	21.2	3 22	14 24.98	-11 37.1	2.056	2.920	11.6	21.0
4 1	14 17.68	-26 34.9	2.366	3.258	9.3	21.1	4 1	14 19.38	-11 0.0	1.979	2.916	8.3	20.8
4 11	14 11.01	-25 52.1	2.305	3.258	6.5	20.9	4 11	14 12.03	-10 15.1	1.926	2.911	4.5	20.5
4 21	14 3.44	-24 53.7	2.270	3.257	4.0	20.7	4 21	14 3.62	- 9 26.1	1.902	2.906	1.1	20.3
5 1	13 55.76	-23 43.0	2.264	3.255	3.8	20.7	5 1	13 55.05	- 8 37.8	1.906	2.900	3.9	20.5
5 11	13 48.77	-22 25.4	2.287	3.254	6.1	20.8	5 11	13 47.21	- 7 55.6	1.937	2.894	7.8	20.7
5 21	13 43.12	-21 7.0	2.337	3.252	9.0	21.0	5 21	13 40.85	- 7 23.4	1.994	2.888	11.4	20.9
5 31	13 39.27	-19 53.6	2.411	3.251	11.6	21.2	5 31	13 36.47	- 7 4.0	2.073	2.881	14.4	21.1
<b>101986</b>	1999 <i>RS</i> <sub>62</sub>		4 22.7 273°02'	2°0'/23.9	18		<b>496130</b>	2010 <i>NB</i> <sub>67</sub>		4 22.7 234°54'	1°9'/20.9	16	
3 22	14 27.71	-18 24.7	1.614	2.468	14.8	20.4	3 22	14 25.70	-10 54.2	2.034	2.898	11.7	22.2
4 1	14 22.04	-18 21.6	1.521	2.449	11.1	20.1	4 1	14 19.98	- 9 43.0	1.945	2.882	8.4	21.9
4 11	14 13.84	-18 3.6	1.452	2.429	6.8	19.8	4 11	14 12.42	- 8 21.7	1.881	2.866	4.6	21.7
4 21	14 3.90	-17 31.7	1.407	2.409	2.5	19.5	4 21	14 3.69	- 6 55.6	1.846	2.849	1.9	21.4
5 1	13 53.41	-16 49.7	1.389	2.388	4.1	19.6	5 1	13 54.71	- 5 31.3	1.841	2.830	4.8	21.6
5 11	13 43.72	-16 3.9	1.397	2.367	8.9	19.8	5 11	13 46.41	- 4 16.1	1.863	2.811	8.7	21.8
5 21	13 35.95	-15 21.3	1.429	2.346	13.5	20.0	5 21	13 39.59	- 3 15.1	1.911	2.792	12.4	22.0
5 31	13 30.89	-14 48.1	1.482	2.325	17.5	20.2	5 31	13 34.81	- 2 32.0	1.981	2.771	15.6	22.2
<b>425499</b>	2010 <i>GS</i> <sub></sub>												

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>264331</b>	1999 <i>UG</i> <sub>47</sub>		4 22.7 130°33	0°3/22.5	18	R	<b>299990</b>	2006 <i>UE</i> <sub>15</sub>		4 22.7 214°84	0°4/22.3	17	
3 22	14 29.25	-12 37.6	1.721	2.584	13.6	20.9	3 22	14 21.52	-13 58.8	2.427	3.285	10.3	20.6
4 1	14 22.61	-12 26.7	1.658	2.593	9.7	20.7	4 1	14 16.70	-13 11.5	2.348	3.281	7.4	20.4
4 11	14 13.87	-12 7.4	1.618	2.602	5.4	20.5	4 11	14 10.47	-12 15.5	2.295	3.278	4.0	20.2
4 21	14 3.90	-11 42.5	1.605	2.610	0.8	20.1	4 21	14 3.42	-11 14.2	2.270	3.275	0.6	19.9
5 1	13 53.84	-11 16.6	1.620	2.618	4.0	20.4	5 1	13 56.26	-10 12.1	2.275	3.271	3.2	20.1
5 11	13 44.80	-10 54.3	1.663	2.625	8.4	20.7	5 11	13 49.71	-9 14.2	2.308	3.267	6.6	20.3
5 21	13 37.64	-10 40.0	1.729	2.632	12.3	20.9	5 21	13 44.37	-8 24.7	2.367	3.263	9.7	20.5
5 31	13 32.92	-10 36.4	1.817	2.639	15.6	21.2	5 31	13 40.66	-7 46.6	2.449	3.259	12.4	20.7
<b>333791</b>	2011 <i>GK</i> <sub>82</sub>		4 22.7 235°39	2°5/20.6	17		<b>422806</b>	2001 <i>YV</i> <sub>13</sub>		4 22.7 192°15	1°6/21.2	17	
3 22	14 25.34	-6 41.4	2.003	2.874	11.6	20.8	3 22	14 25.72	-9 17.0	2.352	3.213	10.5	22.6
4 1	14 19.67	-6 8.6	1.927	2.868	8.3	20.6	4 1	14 19.70	-8 37.1	2.275	3.211	7.4	22.4
4 11	14 12.21	-5 32.4	1.877	2.861	4.7	20.4	4 11	14 12.14	-7 52.0	2.225	3.209	4.1	22.1
4 21	14 3.67	-4 56.9	1.855	2.854	2.5	20.2	4 21	14 3.68	-7 5.3	2.203	3.205	1.6	22.0
5 1	13 54.94	-4 26.9	1.860	2.848	5.0	20.3	5 1	13 55.08	-6 21.4	2.211	3.201	4.0	22.1
5 11	13 46.96	-4 4 6.6	1.893	2.840	8.6	20.5	5 11	13 47.16	-5 44.5	2.248	3.197	7.4	22.3
5 21	13 40.47	-3 58.7	1.950	2.833	12.1	20.7	5 21	13 40.54	-5 17.8	2.310	3.191	10.5	22.5
5 31	13 35.99	-4 4 7.7	2.028	2.826	15.0	20.9	5 31	13 35.70	-5 3 4	2.395	3.185	13.2	22.7
<b>370977</b>	2005 <i>SA</i> <sub>237</sub>		4 22.7 208°65	0°4/23.1	17		<b>168888</b>	2000 <i>WH</i> <sub>90</sub>		4 22.7 156°34	2°0/21.4	18	
3 22	14 25.72	-15 58.3	2.355	3.201	11.0	23.3	3 22	14 29.30	-8 24.3	1.637	2.508	13.7	20.3
4 1	14 19.78	-15 25.2	2.268	3.194	8.0	23.1	4 1	14 22.75	-8 2 5	1.572	2.512	9.8	20.0
4 11	14 12.22	-14 41.8	2.207	3.187	4.5	22.8	4 11	14 14.01	-7 35.8	1.531	2.516	5.4	19.8
4 21	14 3.67	-13 50.7	2.174	3.178	0.9	22.5	4 21	14 3.96	-7 8 3	1.517	2.519	2.0	19.6
5 1	13 54.94	-12 56.1	2.171	3.169	3.0	22.7	5 1	13 53.77	-6 45.0	1.530	2.522	5.1	19.8
5 11	13 46.86	-12 2 8	2.197	3.159	6.7	22.9	5 11	13 44.62	-6 30.5	1.569	2.525	9.4	20.0
5 21	13 40.11	-11 15.6	2.250	3.148	10.0	23.1	5 21	13 37.39	-6 28.1	1.632	2.527	13.4	20.3
5 31	13 35.19	-10 38.1	2.325	3.137	12.9	23.3	5 31	13 32.67	-6 39.4	1.716	2.529	16.7	20.5
<b>336378</b>	2008 <i>UY</i> <sub>62</sub>		4 22.7 223°66	0°8/23.4	17		<b>247978</b>	2004 <i>BJ</i> <sub>105</sub>		4 22.7 95°23	7°0/15.4	17	
3 22	14 24.55	-16 42.2	2.104	2.955	11.9	21.6	3 22	14 22.91	+7 16.0	2.134	3.005	11.0	20.6
4 1	14 19.10	-16 20.4	2.022	2.950	8.7	21.4	4 1	14 17.66	+8 36.0	2.093	3.017	8.7	20.5
4 11	14 11.90	-15 47.4	1.966	2.945	5.1	21.1	4 11	14 10.96	+9 47.7	2.078	3.029	7.2	20.4
4 21	14 3.63	-15 5 8	1.936	2.940	1.3	20.9	4 21	14 3.49	+10 44.7	2.089	3.041	7.3	20.4
5 1	13 55.16	-14 19.4	1.935	2.934	3.2	21.0	5 1	13 56.05	+11 22.2	2.127	3.053	8.9	20.6
5 11	13 47.42	-13 33.5	1.962	2.928	7.0	21.2	5 11	13 49.40	+11 37.9	2.189	3.065	11.1	20.7
5 21	13 41.13	-12 52.9	2.015	2.922	10.6	21.4	5 21	13 44.14	+11 32.0	2.273	3.077	13.4	20.9
5 31	13 36.83	-12 21.6	2.090	2.916	13.7	21.6	5 31	13 40.65	+11 6 2	2.375	3.088	15.3	21.1
<b>251588</b>	2009 <i>FE</i> <sub>76</sub>		4 22.7 334°80	3°6/19.5	17		<b>462805</b>	2010 <i>QR</i> <sub>3</sub>		4 22.7 209°93	1°4/21.5	16	
3 22	14 21.07	-4 38.4	1.847	2.731	11.8	20.3	3 22	14 26.92	-11 2 2	1.968	2.832	12.1	22.4
4 1	14 16.73	-3 47.4	1.775	2.720	8.5	20.1	4 1	14 20.86	-10 18.1	1.888	2.825	8.6	22.1
4 11	14 10.62	-2 53.8	1.727	2.711	5.1	19.9	4 11	14 12.91	-9 25.8	1.834	2.818	4.7	21.9
4 21	14 3.44	-2 3 2	1.706	2.701	3.7	19.8	4 21	14 3.81	-8 29.5	1.807	2.810	1.4	21.6
5 1	13 56.07	-1 21.5	1.712	2.693	6.1	19.9	5 1	13 54.50	-7 34.7	1.809	2.802	4.3	21.8
5 11	13 49.44	-0 53.6	1.743	2.685	9.7	20.1	5 11	13 45.96	-6 47.1	1.839	2.793	8.4	22.0
5 21	13 44.28	-0 42.2	1.797	2.677	13.1	20.3	5 21	13 38.99	-6 11.1	1.893	2.783	12.1	22.2
5 31	13 41.14	-0 48.4	1.871	2.670	16.0	20.5	5 31	13 34.15	-5 49.6	1.969	2.772	15.2	22.4
<b>265871</b>	2005 <i>YC</i> <sub>223</sub>		4 22.7 350°17	1°1/22.0	17		<b>288220</b>	2003 <i>YX</i> <sub>44</sub>		4 22.7 135°12	4°3/19.4	18	
3 22	14 23.51	-11 19.8	1.387	2.271	14.9	19.8	3 22	14 26.75	-3 41.7	1.674	2.553	13.1	20.7
4 1	14 18.99	-10 59.8	1.319	2.266	10.7	19.6	4 1	14 20.79	-2 43.2	1.618	2.560	9.4	20.5
4 11	14 12.08	-10 30.7	1.274	2.261	5.9	19.3	4 11	14 12.85	-1 43.4	1.585	2.567	5.8	20.3
4 21	14 3.67	-9 56.7	1.252	2.256	1.2	18.9	4 21	14 3.79	-0 48.9	1.580	2.573	4.4	20.2
5 1	13 54.99	-9 23.9	1.256	2.253	4.9	19.2	5 1	13 54.68	-0 6 2	1.601	2.579	6.9	20.4
5 11	13 47.35	-8 58.4	1.284	2.251	9.9	19.4	5 11	13 46.59	+0 19.9	1.648	2.585	10.5	20.6
5 21	13 41.72	-8 45.1	1.334	2.249	14.3	19.7	5 21	13 40.29	+0 27.4	1.719	2.590	14.0	20.8
5 31	13 38.77	-8 46.8	1.403	2.249	18.1	19.9	5 31	13 36.31	+0 16.0	1.808	2.596	16.9	21.1
<b>467984</b>	2012 <i>RM</i> <sub>42</sub>		4 22.7 291°25	4°1/19.2	18		<b>413024</b>	2000 <i>TS</i> <sub>51</sub>		4 22.7 208°13	1°3/21.5	16	
3 22	14 27.00	-3 23.7	1.959	2.831	11.8	21.4	3 22	14 26.33	-12 37.7	1.926	2.788	12.4	22.5
4 1	14 21.23	-2 29.9	1.850	2.789	8.6	21.2	4 1	14 20.46	-11 31.9	1.845	2.782	8.8	22.3
4 11	14 13.32	-1 32.3	1.766	2.746	5.5	20.9	4 11	14 12.70	-10 15.0	1.791	2.775	4.8	22.0
4 21	14 3.88	-0 36.4	1.709	2.702	4.2	20.7	4 21	14 3.78	-8 52.0	1.764	2.767	1.3	21.7
5 1	13 53.82	+0 11.3	1.681	2.657	6.8	20.8	5 1	13 54.67	-7 29.9	1.766	2.759	4.4	21.9
5 11	13 44.23	+0 45.0	1.679	2.611	10.7	20.9	5 11	13 46.38	-6 15.7	1.796	2.750	8.6	22.2
5 21	13 36.04	+1 0 8	1.701	2.565	14.5	21.0	5 21	13 39.67	-5 15.1	1.851	2.740	12.4	22.4
5 31	13 30.03	+0 56.8	1.743	2.518	18.0	21.1	5 31	13 35.12	-4 31.8	1.928	2.729	15.6	22.6
<b>229147</b>	2004 <i>SD</i> <sub>13</sub>		4 22.7 220°13	0°7/22.1	18		<b>276961</b>	2004 <i>TX</i> <sub>342</sub>		4 22.7 135°22	0°1/22.7	17	
3 22	14 26.07	-11 42.9	1.954	2.818	12.2	20.5	3 22	14 24.93	-14 51.0	2.252	3.105	11.2	21.3
4 1	14 20.26	-11 23.0	1.877	2.814	8.7	20.3	4 1	14 19.13	-14 15.9	2.186	3.116	8.0	21.1
4 11	14 12.57	-10 55.8	1.826	2.810	4.8	20.1	4 11	14 11.81	-13 31.6	2.146	3.127	4.5	20.9
4 21	14 3.73	-10 24.3	1.801	2.805	0.9	19.8	4 21	14 3.63	-12 41.5	2.133	3.138	0.7	20.6
5 1	13 54.69	-9 52.9	1.804	2.801	3.9	20.0	5 1	13 55.42	-11 49.8	2.151	3.148	3.1	20.9
5 11	13 46.44	-9 26.1	1.836	2.796	7.9	20.2	5 11	13 47.99	-11 1 4	2.196	3.158	6.7	21.1
5 21	13 39.74	-9 7 8	1.892	2.791	11.6	20.4	5 21	13 41.94	-10 20.5	2.268	3.167	10.0	21.3
5 31	13 35.17	-9 0 8	1.969	2.785	14.8	20.6	5 31	13 37.73	-9 50.3	2.363	3.176	12.7	21.5
<b>191685</b>	2004 <i>RO</i> <sub>79</sub>		4 22.7 207°84	1°0/23.6	18		<b>299951</b>	2006 <i>TM</i> <sub>60</sub>		4 22.7 235°89	0°3/22.5	16	

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>340925</b>	2007 <i>DG</i> <sub>115</sub>		4 22.7 266°88	2°6/17.5	18		<b>296285</b>	2009 <i>DD</i> <sub>73</sub>		4 22.7 285°67	5°4/27.4	18	
3 22	14 15.07	- 0 6.7	4.467	5.336	5.7	20.9	3 22	14 26.06	-28 59.7	2.164	2.964	13.5	20.6
4 1	14 11.62	+ 0 48.4	4.395	5.330	4.2	20.8	4 1	14 20.37	-29 24.8	2.080	2.962	10.9	20.4
4 11	14 7.50	+ 1 42.8	4.352	5.324	2.9	20.7	4 11	14 12.71	-29 32.3	2.020	2.960	8.1	20.3
4 21	14 3.00	+ 2 33.9	4.339	5.318	2.7	20.7	4 21	14 3.82	-29 21.0	1.984	2.958	5.9	20.1
5 1	13 58.44	+ 3 19.2	4.355	5.312	3.8	20.8	5 1	13 54.65	-28 52.4	1.975	2.956	5.5	20.1
5 11	13 54.17	+ 3 56.6	4.400	5.305	5.3	20.9	5 11	13 46.23	-28 10.8	1.994	2.954	7.4	20.2
5 21	13 50.46	+ 4 24.9	4.471	5.299	6.8	21.0	5 21	13 39.40	-27 21.8	2.038	2.952	10.2	20.4
5 31	13 47.57	+ 4 43.4	4.564	5.293	8.2	21.1	5 31	13 34.76	-26 32.1	2.105	2.950	12.9	20.5
<b>194785</b>	2001 <i>YQ</i> <sub>83</sub>		4 22.7 150°89	1°6/21.5	18		<b>136919</b>	1998 <i>HZ</i> <sub>138</sub>		4 22.7 83°73	2°7/20.6	18	
3 22	14 28.85	-10 24.4	1.751	2.617	13.2	20.8	3 22	14 27.38	- 4 7.5	2.231	3.096	10.8	19.1
4 1	14 22.27	- 9 44.9	1.688	2.626	9.4	20.6	4 1	14 20.78	- 3 57.1	2.179	3.115	7.7	18.9
4 11	14 13.67	- 8 58.0	1.650	2.634	5.1	20.3	4 11	14 12.68	- 3 46.8	2.152	3.134	4.5	18.7
4 21	14 3.92	- 8 8.3	1.638	2.642	1.6	20.1	4 21	14 3.79	- 3 39.7	2.155	3.152	2.7	18.6
5 1	13 54.10	- 7 21.7	1.655	2.649	4.7	20.3	5 1	13 54.93	- 3 38.8	2.186	3.171	4.7	18.8
5 11	13 45.30	- 6 43.6	1.700	2.655	8.9	20.6	5 11	13 46.91	- 3 46.2	2.246	3.189	7.7	19.0
5 21	13 38.32	- 6 18.2	1.768	2.660	12.7	20.8	5 21	13 40.32	- 4 3.1	2.331	3.207	10.6	19.2
5 31	13 33.69	- 6 7.6	1.858	2.665	15.9	21.0	5 31	13 35.60	- 4 29.9	2.439	3.225	13.1	19.4
<b>5527</b>	1991 <i>UQ</i> <sub>3</sub>		4 22.7 302°10	3°3/20.7	18		<b>64328</b>	2001 <i>UH</i> <sub>48</sub>		4 22.7 131°63	1°9/21.1	18	
3 22	14 25.75	- 7 47.9	1.260	2.150	15.7	16.7	3 22	14 25.51	- 9 26.7	1.914	2.784	12.1	19.9
4 1	14 20.90	- 7 2.7	1.186	2.135	11.3	16.4	4 1	14 19.75	- 8 40.7	1.853	2.792	8.6	19.7
4 11	14 13.31	- 6 9.7	1.134	2.121	6.4	16.1	4 11	14 12.23	- 7 48.5	1.816	2.801	4.7	19.4
4 21	14 3.90	- 5 15.4	1.105	2.107	3.3	15.9	4 21	14 3.73	- 6 55.2	1.807	2.809	1.9	19.3
5 1	13 54.05	- 4 28.3	1.102	2.093	6.9	16.0	5 1	13 55.18	- 6 6.0	1.826	2.817	4.6	19.5
5 11	13 45.25	- 3 56.2	1.121	2.079	12.0	16.3	5 11	13 47.51	- 5 26.1	1.872	2.824	8.4	19.7
5 21	13 38.67	- 3 44.0	1.162	2.066	16.9	16.5	5 21	13 41.43	- 4 59.2	1.943	2.831	11.9	19.9
5 31	13 35.10	- 3 53.7	1.219	2.053	21.0	16.7	5 31	13 37.41	- 4 47.0	2.035	2.838	14.8	20.1
<b>207670</b>	2007 <i>PH</i> <sub>20</sub>		4 22.7 284°20	1°8/23.9	17		<b>129281</b>	2005 <i>RP</i> <sub>21</sub>		4 22.7 247°35	1°8/20.7	17	
3 22	14 27.08	-18 10.0	1.432	2.294	15.8	20.7	3 22	14 20.95	- 9 42.6	2.401	3.269	10.0	20.3
4 1	14 21.89	-17 59.5	1.340	2.272	11.9	20.4	4 1	14 16.33	- 8 40.2	2.322	3.262	7.1	20.1
4 11	14 13.92	-17 31.8	1.271	2.250	7.2	20.1	4 11	14 10.30	- 7 31.5	2.270	3.255	3.9	19.9
4 21	14 4.01	-16 48.5	1.225	2.228	2.4	19.7	4 21	14 3.45	- 6 20.7	2.246	3.247	1.8	19.7
5 1	13 53.47	-15 54.4	1.206	2.205	4.4	19.8	5 1	13 56.48	- 5 13.1	2.251	3.239	4.1	19.9
5 11	13 43.77	-14 57.1	1.211	2.183	9.7	20.0	5 11	13 50.09	- 4 13.8	2.284	3.231	7.4	20.1
5 21	13 36.19	-14 5.1	1.239	2.160	14.7	20.3	5 21	13 44.88	- 3 26.4	2.343	3.223	10.4	20.3
5 31	13 31.58	-13 25.6	1.286	2.137	19.1	20.5	5 31	13 41.28	- 2 53.5	2.424	3.215	13.0	20.4
<b>449084</b>	2012 <i>QX</i> <sub>14</sub>		4 22.7 269°49	12°0/ 9.9	17		<b>508510</b>	2016 <i>QC</i> <sub>37</sub>		4 22.7 261°51	7°1/14.1	18	
3 22	14 24.25	+ 5 35.2	1.213	2.107	15.8	20.9	3 22	14 21.37	+ 7 42.5	2.261	3.131	10.5	20.9
4 1	14 19.86	+ 9 24.7	1.153	2.089	13.0	20.7	4 1	14 16.69	+ 9 16.0	2.199	3.121	8.4	20.8
4 11	14 12.74	+13 14.3	1.120	2.070	12.0	20.5	4 11	14 10.53	+10 43.2	2.163	3.110	7.2	20.7
4 21	14 3.83	+16 42.6	1.112	2.051	13.6	20.6	4 21	14 3.49	+11 57.2	2.154	3.100	7.5	20.7
5 1	13 54.48	+19 30.3	1.128	2.032	16.9	20.7	5 1	13 56.32	+12 52.2	2.171	3.089	9.2	20.7
5 11	13 46.20	+21 26.4	1.164	2.012	20.6	20.9	5 11	13 49.78	+13 24.7	2.213	3.078	11.5	20.9
5 21	13 40.14	+22 29.5	1.216	1.992	24.1	21.0	5 21	13 44.48	+13 33.9	2.277	3.067	13.7	21.0
5 31	13 37.07	+22 44.7	1.279	1.972	26.9	21.2	5 31	13 40.88	+13 21.1	2.358	3.056	15.7	21.1
<b>434933</b>	2006 <i>TB</i> <sub>121</sub>		4 22.7 222°77	4°8/17.2	18		<b>389739</b>	2011 <i>SD</i> <sub>114</sub>		4 22.7 179°94	1°0/21.6	17	
3 22	14 21.80	+ 1 43.4	2.510	3.382	9.5	21.2	3 22	14 22.07	-11 8.6	2.645	3.504	9.5	21.7
4 1	14 16.83	+ 2 48.3	2.442	3.375	7.1	21.0	4 1	14 16.98	-10 28.9	2.570	3.505	6.7	21.5
4 11	14 10.53	+ 3 50.9	2.400	3.369	5.2	20.9	4 11	14 10.61	- 9 43.4	2.522	3.506	3.7	21.3
4 21	14 3.46	+ 4 46.2	2.387	3.362	4.9	20.8	4 21	14 3.50	- 8 55.3	2.502	3.506	1.0	21.1
5 1	13 56.28	+ 5 29.5	2.402	3.355	6.6	20.9	5 1	13 56.30	- 8 8.5	2.512	3.506	3.3	21.2
5 11	13 49.68	+ 5 57.6	2.444	3.348	9.0	21.1	5 11	13 49.68	- 7 26.9	2.551	3.505	6.4	21.4
5 21	13 44.22	+ 6 8.9	2.509	3.340	11.5	21.2	5 21	13 44.17	- 6 53.6	2.617	3.504	9.2	21.6
5 31	13 40.30	+ 6 3.5	2.595	3.332	13.6	21.4	5 31	13 40.17	- 6 30.9	2.705	3.503	11.7	21.8
<b>161728</b>	2006 <i>SQ</i> <sub>20</sub>		4 22.7 212°30	1°5/20.7	18		<b>426722</b>	2013 <i>TZ</i> <sub>50</sub>		4 22.7 179°74	0°5/23.1	17	
3 22	14 21.41	- 9 17.4	3.114	3.973	8.2	20.6	3 22	14 26.69	-15 6.9	2.218	3.068	11.5	21.7
4 1	14 16.37	- 8 21.0	3.029	3.964	5.8	20.5	4 1	14 20.53	-14 52.3	2.141	3.069	8.3	21.5
4 11	14 10.22	- 7 19.9	2.971	3.955	3.2	20.3	4 11	14 12.67	-14 28.8	2.090	3.070	4.7	21.2
4 21	14 3.42	- 6 17.2	2.944	3.945	1.5	20.1	4 21	14 3.81	-13 58.5	2.066	3.070	0.9	21.0
5 1	13 56.51	- 5 17.0	2.947	3.934	3.4	20.3	5 1	13 54.80	-13 25.0	2.072	3.070	3.1	21.1
5 11	13 50.06	- 4 22.9	2.980	3.923	6.1	20.4	5 11	13 46.52	-12 52.5	2.106	3.069	6.8	21.4
5 21	13 44.53	- 3 37.8	3.040	3.912	8.6	20.6	5 21	13 39.68	-12 25.1	2.167	3.068	10.2	21.6
5 31	13 40.29	- 3 4.0	3.124	3.899	10.7	20.7	5 31	13 34.77	-12 6.1	2.250	3.066	13.1	21.8
<b>506769</b>	2006 <i>WX</i> <sub>155</sub>		4 22.7 202°77	2°3/20.5	17		<b>237059</b>	2008 <i>SK</i> <sub>167</sub>		4 22.7 150°14	0°3/22.4	18	
3 22	14 24.14	- 5 30.7	2.526	3.392	9.7	22.0	3 22	14 26.73	-12 12.9	2.294	3.149	10.9	20.8
4 1	14 18.50	- 5 7.4	2.452	3.389	6.9	21.8	4 1	14 20.45	-12 1.7	2.224	3.156	7.8	20.6
4 11	14 11.46	- 4 42.6	2.404	3.387	4.0	21.6	4 11	14 12.58	-11 44.2	2.180	3.163	4.3	20.4
4 21	14 3.60	- 4 19.5	2.385	3.384	2.3	21.5	4 21	14 3.80	-11 22.9	2.164	3.169	0.6	20.1
5 1	13 55.63	- 4 1.3	2.396	3.381	4.3	21.6	5 1	13 54.92	-11 0.9	2.178	3.175	3.2	20.3
5 11	13 48.26	- 3 50.9	2.434	3.377	7.2	21.8	5 11	13 46.78	-10 41.8	2.221	3.180	6.8	20.6
5 21	13 42.06	- 3 50.3	2.498	3.374	10.0	22.0	5 21	13 40.03	-10 28.6	2.289	3.185	10.0	20.8
5 31	13 37.49	- 4 0.4	2.585	3.370	12.5	22.1	5 31	13 35.13	-10 23.9	2.381	3.190	12.7	21.0
<b>111654</b>	2002 <i>AG</i> <sub>184</sub>		4 22.7 74°22	6°5/15.9	17		<b>382397</b>	1991 <i>VH</i> <sub>8</sub>					

## EPHEMERIDES

4 22.7

4 22.8

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>351524</b>	2005 <i>SO</i> <sub>126</sub>		4 22.7 335°01	0°4/23.1	17		<b>211117</b>	2002 <i>GP</i> <sub>4</sub>		4 22.7 313°23	11°1/24.5	17	
3 22	14 22.60	-15 17.7	2.141	2.998	11.5	21.2	3 22	14 39.91	-27 50.3	1.300	2.119	19.7	19.2
4 1	14 17.70	-14 59.0	2.063	2.995	8.3	21.0	4 1	14 32.71	-30 29.2	1.202	2.090	16.6	18.9
4 11	14 11.15	-14 30.8	2.011	2.992	4.7	20.8	4 11	14 21.00	-32 59.5	1.125	2.061	13.5	18.6
4 21	14 3.62	-13 55.7	1.985	2.989	1.0	20.5	4 21	14 5.32	-35 9.1	1.071	2.033	11.3	18.4
5 1	13 55.92	-13 17.5	1.987	2.986	3.1	20.7	5 1	13 47.31	-36 46.2	1.043	2.006	11.8	18.3
5 11	13 48.91	-12 40.8	2.018	2.984	6.9	20.9	5 11	13 29.49	-37 46.0	1.039	1.979	14.8	18.4
5 21	13 43.28	-12 9.8	2.073	2.981	10.3	21.1	5 21	13 14.37	-38 13.4	1.056	1.953	18.8	18.5
5 31	13 39.52	-11 48.0	2.151	2.979	13.3	21.3	5 31	13 3.83	-38 20.1	1.090	1.928	22.7	18.7
<b>501289</b>	2013 <i>WY</i> <sub>54</sub>		4 22.7 209°21	4°7/27.6	17		<b>184182</b>	2004 <i>OC</i> <sub>4</sub>		4 22.7 278°34	0°9/21.8	17	
3 22	14 27.42	-30 6.2	2.556	3.338	12.1	22.6	3 22	14 21.61	-11 45.4	2.389	3.252	10.3	20.3
4 1	14 21.12	-30 8.0	2.460	3.331	9.8	22.4	4 1	14 16.90	-11 4.7	2.299	3.235	7.3	20.1
4 11	14 13.06	-29 52.4	2.387	3.322	7.3	22.2	4 11	14 10.71	-10 16.6	2.234	3.219	4.0	19.9
4 21	14 3.91	-29 19.1	2.341	3.313	5.3	22.1	4 21	14 3.59	-9 24.4	2.198	3.202	1.0	19.6
5 1	13 54.53	-28 29.8	2.324	3.304	4.9	22.0	5 1	13 56.26	-8 32.5	2.191	3.185	3.5	19.8
5 11	13 45.80	-27 28.7	2.335	3.293	6.6	22.1	5 11	13 49.48	-7 45.5	2.212	3.168	7.0	19.9
5 21	13 38.47	-26 21.6	2.374	3.282	9.2	22.3	5 21	13 43.87	-7 7.4	2.258	3.151	10.2	20.1
5 31	13 33.08	-25 14.7	2.436	3.270	11.7	22.4	5 31	13 39.93	-6 41.0	2.327	3.134	13.0	20.3
<b>435992</b>	2009 <i>FE</i> <sub>11</sub>		4 22.7 88°27	4°2/18.5	17		<b>376341</b>	2011 <i>HT</i> <sub>16</sub>		4 22.7 81°82	0°6/23.3	17	
3 22	14 22.28	-2 12.5	2.137	3.013	10.7	21.3	3 22	14 24.20	-16 44.8	1.830	2.688	13.1	20.6
4 1	14 17.27	-1 3.8	2.085	3.025	7.7	21.1	4 1	14 18.98	-16 9.2	1.764	2.696	9.5	20.4
4 11	14 10.81	+0 4.7	2.059	3.036	5.0	21.0	4 11	14 11.91	-15 20.8	1.722	2.703	5.4	20.2
4 21	14 3.56	+1 7.0	2.061	3.048	4.3	21.0	4 21	14 3.77	-14 23.4	1.707	2.711	1.2	19.9
5 1	13 56.31	+1 58.0	2.090	3.059	6.3	21.1	5 1	13 55.55	-13 22.2	1.719	2.718	3.5	20.1
5 11	13 49.83	+2 33.6	2.147	3.070	9.1	21.3	5 11	13 48.24	-12 23.9	1.759	2.726	7.6	20.4
5 21	13 44.69	+2 52.1	2.227	3.082	11.9	21.5	5 21	13 42.59	-11 33.8	1.823	2.734	11.4	20.6
5 31	13 41.31	+2 53.3	2.327	3.093	14.2	21.7	5 31	13 39.09	-10 56.3	1.909	2.741	14.6	20.8
<b>231319</b>	2006 <i>CQ</i> <sub>41</sub>		4 22.7 281°35	0°7/23.3	17		<b>138799</b>	2000 <i>TT</i> <sub>15</sub>		4 22.7 253°81	0°2/22.5	18	
3 22	14 23.96	-16 30.7	1.868	2.726	12.9	20.8	3 22	14 22.07	-13 55.8	2.347	3.205	10.6	20.1
4 1	14 18.93	-16 3.9	1.786	2.717	9.4	20.6	4 1	14 17.21	-13 20.7	2.266	3.199	7.6	19.8
4 11	14 11.96	-15 24.5	1.727	2.708	5.4	20.3	4 11	14 10.86	-12 37.0	2.210	3.193	4.2	19.6
4 21	14 3.76	-14 35.5	1.696	2.699	1.3	20.0	4 21	14 3.62	-11 47.9	2.182	3.186	0.6	19.3
5 1	13 55.32	-13 41.5	1.691	2.691	3.5	20.1	5 1	13 56.22	-10 57.5	2.183	3.180	3.1	19.5
5 11	13 47.66	-12 48.7	1.714	2.682	7.8	20.4	5 11	13 49.44	-10 10.4	2.212	3.174	6.7	19.7
5 21	13 41.58	-12 2.8	1.762	2.673	11.7	20.6	5 21	13 43.90	-9 30.8	2.267	3.167	9.9	19.9
5 31	13 37.68	-11 28.3	1.831	2.664	15.0	20.8	5 31	13 40.07	-9 1.7	2.345	3.160	12.7	20.1
<b>272697</b>	2005 <i>XX</i> <sub>104</sub>		4 22.7 214°74	0°9/23.5	17		<b>371082</b>	2005 <i>UY</i> <sub>383</sub>		4 22.8 100°36	6°2/17.1	18	
3 22	14 25.62	-16 32.2	2.054	2.905	12.2	21.9	3 22	14 24.92	+2 12.3	1.850	2.728	12.1	20.4
4 1	14 19.95	-16 15.5	1.974	2.901	8.9	21.7	4 1	14 19.28	+3 34.7	1.808	2.743	9.1	20.3
4 11	14 12.45	-15 47.7	1.918	2.897	5.2	21.5	4 11	14 11.97	+4 52.2	1.791	2.759	6.7	20.2
4 21	14 3.83	-15 11.2	1.889	2.892	1.3	21.2	4 21	14 3.78	+5 57.7	1.800	2.774	6.4	20.2
5 1	13 55.01	-14 29.9	1.888	2.887	3.2	21.3	5 1	13 55.65	+6 45.2	1.837	2.789	8.4	20.3
5 11	13 46.94	-13 48.7	1.916	2.882	7.2	21.5	5 11	13 48.46	+7 11.2	1.898	2.803	11.2	20.5
5 21	13 40.37	-13 12.6	1.969	2.877	10.8	21.7	5 21	13 42.87	+7 15.1	1.982	2.817	13.9	20.7
5 31	13 35.86	-12 45.5	2.044	2.871	13.9	21.9	5 31	13 39.32	+6 58.5	2.085	2.831	16.2	20.9
<b>419784</b>	2010 <i>VN</i> <sub>196</sub>		4 22.7 43°47	0°7/23.1	18		<b>473728</b>	2016 <i>CR</i> <sub>27</sub>		4 22.8 66°54	5°4/19.2	17	
3 22	14 27.53	-14 40.5	1.333	2.207	16.0	20.5	3 22	14 27.33	-1 40.8	1.425	2.310	14.5	20.6
4 1	14 21.79	-14 39.3	1.283	2.222	11.6	20.3	4 1	14 21.52	-0 48.9	1.372	2.316	10.5	20.4
4 11	14 13.59	-14 26.1	1.254	2.238	6.6	20.0	4 11	14 13.42	+0 1.6	1.342	2.322	6.8	20.2
4 21	14 4.00	-14 3.9	1.250	2.254	1.3	19.7	4 21	14 4.02	+0 43.4	1.337	2.328	5.5	20.1
5 1	13 54.38	-13 37.8	1.271	2.271	4.2	20.0	5 1	13 54.57	+1 9.8	1.358	2.334	8.0	20.3
5 11	13 46.09	-13 13.8	1.317	2.288	9.2	20.3	5 11	13 46.28	+1 16.5	1.403	2.340	11.9	20.5
5 21	13 40.05	-12 57.4	1.386	2.305	13.6	20.6	5 21	13 40.05	+1 2.4	1.469	2.347	15.6	20.7
5 31	13 36.82	-12 52.2	1.474	2.323	17.2	20.9	5 31	13 36.43	+0 28.5	1.554	2.353	18.8	21.0
<b>297242</b>	1994 <i>SL</i> <sub>11</sub>		4 22.7 154°58	0°1/22.9	18		<b>501176</b>	2013 <i>TS</i> <sub>95</sub>		4 22.8 219°59	1°1/21.8	17	
3 22	14 23.22	-14 14.9	2.892	3.739	9.1	21.9	3 22	14 25.26	-11 29.8	2.147	3.009	11.3	22.7
4 1	14 17.72	-13 56.7	2.818	3.746	6.6	21.7	4 1	14 19.61	-10 50.8	2.065	3.001	8.1	22.5
4 11	14 11.01	-13 32.0	2.771	3.752	3.7	21.5	4 11	14 12.26	-10 4.1	2.009	2.993	4.4	22.3
4 21	14 3.61	-13 2.8	2.754	3.758	0.6	21.3	4 21	14 3.86	-9 13.4	1.980	2.984	1.1	22.0
5 1	13 56.14	-12 32.1	2.766	3.764	2.5	21.5	5 1	13 55.26	-8 23.4	1.980	2.975	3.9	22.2
5 11	13 49.22	-12 2.9	2.808	3.769	5.5	21.7	5 11	13 47.35	-7 39.3	2.009	2.965	7.7	22.4
5 21	13 43.37	-11 38.2	2.877	3.774	8.2	21.8	5 21	13 40.84	-7 5.0	2.063	2.955	11.1	22.6
5 31	13 38.96	-11 20.3	2.970	3.778	10.5	22.0	5 31	13 36.26	-6 43.4	2.139	2.944	14.1	22.8
<b>89157</b>	2001 <i>UW</i> <sub>43</sub>		4 22.7 285°73	4°4/19.6	17		<b>77655</b>	2001 <i>KO</i> <sub>73</sub>		4 22.8 331°97	5°3/19.7	18	
3 22	14 25.85	-5 57.7	1.362	2.250	14.9	19.5	3 22	14 24.64	-2 29.7	1.229	2.125	15.5	18.1
4 1	14 20.92	-4 50.7	1.280	2.228	10.8	19.2	4 1	14 20.17	-1 54.6	1.158	2.108	11.4	17.8
4 11	14 13.36	-3 36.0	1.221	2.206	6.5	18.8	4 11	14 12.98	-1 19.7	1.109	2.093	7.2	17.6
4 21	14 4.01	-2 21.6	1.187	2.184	4.4	18.7	4 21	14 4.00	-0 52.3	1.083	2.078	5.4	17.4
5 1	13 54.14	-1 16.7	1.177	2.161	7.8	18.8	5 1	13 54.58	-0 39.8	1.081	2.065	8.4	17.5
5 11	13 45.16	-0 30.2	1.192	2.139	12.6	19.0	5 11	13 46.21	-0 47.5	1.101	2.052	13.0	17.7
5 21	13 38.25	-0 7.0	1.228	2.117	17.3	19.2	5 21	13 40.05	-1 17.2	1.142	2.041	17.5	18.0
5 31	13 34.19	-0 9.2	1.280	2.094	21.3	19.4	5 31	13 36.87	-2 8.3	1.199	2.031	21.4	18.2
<b>105938</b>	2000 <i>SL</i> <sub>227</sub>		4 22.7 203°96	2°6/19.7	18		<b>274392</b>	2008 <i>RG</i> <sub>110</sub>		4 22.8 300°25	4°2/25.1	17	
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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>163134</b>	2002 <i>CM</i> <sub>16</sub>		4 22.8 76°53	4.1°/25.4	18		<b>122197</b>	2000 <i>LV</i> <sub>9</sub>		4 22.8 334°50	20°5'	1.0	17
3 22	14 29.44	-22 55.4	1.381	2.228	17.2	20.1	3 22	14 26.39	+31 2.6	1.188	2.012	20.9	18.6
4 1	14 23.34	-23 5.6	1.322	2.241	13.2	19.8	4 1	14 21.52	+33 17.0	1.162	2.002	20.5	18.5
4 11	14 14.56	-22 54.9	1.284	2.253	8.7	19.6	4 11	14 13.67	+34 50.6	1.153	1.991	20.9	18.5
4 21	14 4.21	-22 24.1	1.270	2.265	4.7	19.4	4 21	14 4.11	+35 31.5	1.159	1.982	21.9	18.6
5 1	13 53.73	-21 37.6	1.281	2.277	5.1	19.4	5 1	13 54.49	+35 14.1	1.179	1.974	23.4	18.6
5 11	13 44.59	-20 43.2	1.317	2.290	9.0	19.7	5 11	13 46.42	+34 0.6	1.212	1.966	25.1	18.7
5 21	13 37.84	-19 49.4	1.377	2.302	13.3	20.0	5 21	13 40.98	+31 59.1	1.256	1.960	26.8	18.9
5 31	13 34.07	-19 3.9	1.456	2.314	16.9	20.2	5 31	13 38.73	+29 19.6	1.310	1.954	28.3	19.0
<b>204193</b>	2004 <i>BB</i> <sub>90</sub>		4 22.8 60°05	6.1°/28.4	18		<b>381521</b>	2008 <i>SO</i> <sub>217</sub>		4 22.8 288°98	4°3'	19.8	17
3 22	14 25.71	-31 20.9	2.042	2.834	14.4	19.9	3 22	14 28.00	- 0 49.2	1.876	2.749	12.2	20.8
4 1	14 20.18	-31 39.1	1.969	2.842	11.8	19.8	4 1	14 21.70	- 0 31.2	1.807	2.745	8.9	20.6
4 11	14 12.65	-31 36.4	1.918	2.850	9.0	19.6	4 11	14 13.47	- 0 16.0	1.763	2.740	5.7	20.4
4 21	14 3.92	-31 12.2	1.892	2.859	6.7	19.5	4 21	14 4.09	- 0 7.8	1.745	2.736	4.3	20.3
5 1	13 55.03	-30 28.5	1.891	2.867	6.2	19.4	5 1	13 54.52	- 0 10.6	1.755	2.732	6.5	20.4
5 11	13 47.04	-29 30.5	1.918	2.876	7.8	19.6	5 11	13 45.80	- 0 27.0	1.792	2.728	9.8	20.6
5 21	13 40.77	-28 25.1	1.969	2.885	10.4	19.7	5 21	13 38.72	- 0 57.7	1.852	2.724	13.2	20.8
5 31	13 36.78	-27 19.7	2.043	2.894	13.0	19.9	5 31	13 33.82	- 1 42.2	1.934	2.720	16.0	21.0
<b>502741</b>	2015 <i>DR</i> <sub>42</sub>		4 22.8 132°99	4°3'/18.7	17		<b>179812</b>	2002 <i>TD</i> <sub>78</sub>		4 22.8 298°48	0°5'/23.1	17	
3 22	14 25.66	- 0 39.0	2.219	3.089	10.7	22.0	3 22	14 24.12	-16 25.0	1.473	2.343	15.0	20.1
4 1	14 19.64	+ 0 11.7	2.165	3.101	7.8	21.8	4 1	14 19.63	-15 48.6	1.384	2.322	11.1	19.8
4 11	14 12.13	+ 1 0.6	2.138	3.113	5.2	21.6	4 11	14 12.65	-14 55.2	1.318	2.301	6.4	19.5
4 21	14 3.83	+ 1 42.6	2.139	3.124	4.4	21.6	4 21	14 3.99	-13 48.4	1.277	2.281	1.2	19.1
5 1	13 55.53	+ 2 13.4	2.168	3.135	6.2	21.7	5 1	13 54.85	-12 34.9	1.261	2.261	4.3	19.3
5 11	13 48.02	+ 2 30.0	2.224	3.146	9.0	21.9	5 11	13 46.56	-11 23.3	1.271	2.241	9.6	19.5
5 21	13 41.89	+ 2 31.1	2.305	3.156	11.7	22.1	5 21	13 40.21	-10 22.0	1.303	2.221	14.4	19.7
5 31	13 37.57	+ 2 16.9	2.406	3.165	14.0	22.3	5 31	13 36.58	- 9 37.3	1.355	2.201	18.6	19.9
<b>196736</b>	Munkácsy		4 22.8 209°12	0°2'/22.6	18		<b>473879</b>	2016 <i>EH</i> <sub>140</sub>		4 22.8 275°84	2°9'/24.7	17	
3 22	14 25.10	-13 18.4	2.055	2.915	11.8	21.1	3 22	14 27.87	-20 19.0	1.565	2.416	15.4	21.4
4 1	14 19.54	-12 56.0	1.979	2.913	8.5	20.9	4 1	14 22.17	-20 27.0	1.487	2.410	11.6	21.2
4 11	14 12.24	-12 25.2	1.928	2.911	4.7	20.7	4 11	14 13.98	-20 18.7	1.432	2.405	7.4	20.9
4 21	14 3.87	-11 48.9	1.903	2.908	0.7	20.3	4 21	14 4.19	-19 54.8	1.401	2.400	3.5	20.7
5 1	13 55.33	-11 11.3	1.908	2.905	3.5	20.6	5 1	13 54.02	-19 18.8	1.396	2.394	4.3	20.7
5 11	13 47.53	-10 37.2	1.940	2.902	7.4	20.8	5 11	13 44.84	-18 36.9	1.417	2.389	8.6	20.9
5 21	13 41.21	-10 10.5	1.997	2.899	11.0	21.0	5 21	13 37.68	-17 56.1	1.462	2.383	12.9	21.2
5 31	13 36.89	- 9 54.3	2.077	2.896	14.0	21.2	5 31	13 33.27	-17 22.8	1.528	2.378	16.7	21.4
<b>301541</b>	2009 <i>FS</i> <sub>60</sub>		4 22.8 101°20	3°6'/25.9	18		<b>293370</b>	2007 <i>EF</i> <sub>17</sub>		4 22.8 297°72	3°0'/27.4	18	
3 22	14 25.85	-24 6.7	2.224	3.044	12.5	20.7	3 22	14 19.48	-28 6.7	4.196	4.979	7.7	20.5
4 1	14 20.09	-24 22.3	2.145	3.047	9.7	20.5	4 1	14 14.96	-28 19.5	4.100	4.973	6.2	20.3
4 11	14 12.55	-24 23.5	2.091	3.050	6.6	20.3	4 11	14 9.50	-28 23.0	4.030	4.966	4.6	20.2
4 21	14 3.92	-24 10.6	2.063	3.052	4.1	20.2	4 21	14 3.48	-28 17.4	3.987	4.959	3.3	20.1
5 1	13 55.09	-23 45.6	2.063	3.055	4.1	20.2	5 1	13 57.32	-28 3.5	3.974	4.952	3.1	20.1
5 11	13 46.99	-23 12.5	2.091	3.057	6.7	20.3	5 11	13 51.49	-27 43.3	3.989	4.946	4.2	20.2
5 21	13 40.38	-22 36.4	2.145	3.060	9.7	20.5	5 21	13 46.38	-27 19.0	4.033	4.939	5.8	20.3
5 31	13 35.78	-22 2.3	2.222	3.062	12.5	20.7	5 31	13 42.32	-26 53.3	4.101	4.932	7.4	20.4
<b>504180</b>	2006 <i>SH</i> <sub>408</sub>		4 22.8 137°45	3°0'/26.7	18		<b>56932</b>	2000 <i>RT</i> <sub>40</sub>		4 22.8 72°68	10°5'/2.6	18	
3 22	14 23.09	-27 8.2	2.703	3.505	11.0	21.6	3 22	14 35.12	-44 45.9	2.352	3.034	15.6	18.7
4 1	14 17.76	-26 25.6	2.624	3.514	8.6	21.4	4 1	14 27.37	-46 15.1	2.282	3.047	14.0	18.6
4 11	14 11.08	-25 26.9	2.571	3.524	5.9	21.3	4 11	14 16.92	-47 20.4	2.232	3.060	12.4	18.5
4 21	14 3.68	-24 14.2	2.545	3.533	3.5	21.1	4 21	14 4.64	-47 56.9	2.203	3.073	11.1	18.4
5 1	13 56.27	-22 51.1	2.549	3.541	3.3	21.1	5 1	13 51.84	-48 2.7	2.199	3.085	10.5	18.4
5 11	13 49.55	-21 23.2	2.582	3.549	5.5	21.3	5 11	13 39.96	-47 40.4	2.218	3.098	10.8	18.5
5 21	13 44.06	-19 56.2	2.644	3.557	8.2	21.4	5 21	13 30.18	-46 56.2	2.261	3.111	11.9	18.6
5 31	13 40.21	-18 35.4	2.731	3.565	10.6	21.6	5 31	13 23.29	-45 58.4	2.325	3.124	13.3	18.7
<b>510262</b>	2011 <i>HJ</i> <sub>61</sub>		4 22.8 148°33	1°0'/23.5	18		<b>199266</b>	2006 <i>BC</i> <sub>20</sub>		4 22.8 74°34	5°6'/17.9	18	
3 22	14 44.32	-23 19.7	1.158	1.994	20.6	22.1	3 22	14 24.27	+ 0 14.2	1.763	2.644	12.4	19.8
4 1	14 34.02	-21 11.6	1.099	2.018	15.2	21.9	4 1	14 18.97	+ 1 23.5	1.714	2.653	9.1	19.6
4 11	14 20.39	-18 28.0	1.062	2.038	8.8	21.6	4 11	14 11.89	+ 2 30.0	1.689	2.663	6.4	19.5
4 21	14 5.08	-15 18.9	1.052	2.056	2.0	21.2	4 21	14 3.84	+ 3 26.7	1.691	2.673	5.7	19.4
5 1	13 50.15	-12 2.9	1.073	2.071	5.3	21.5	5 1	13 55.78	+ 4 7.6	1.719	2.683	7.9	19.6
5 11	13 37.46	- 9 1.2	1.122	2.083	11.7	21.9	5 11	13 48.66	+ 4 28.7	1.773	2.693	10.9	19.8
5 21	13 28.14	- 6 29.1	1.196	2.092	17.1	22.2	5 21	13 43.18	+ 4 29.2	1.849	2.703	14.0	20.0
5 31	13 22.61	- 4 34.0	1.289	2.099	21.4	22.5	5 31	13 39.80	+ 4 9.8	1.943	2.713	16.5	20.2
<b>300223</b>	2006 <i>XK</i> <sub>32</sub>		4 22.8 144°51	0°1'/22.6	17		<b>248939</b>	2006 <i>WX</i> <sub>107</sub>		4 22.8 139°50	5°1'/29.1	18	
3 22	14 22.99	-13 32.0	2.531	3.385	10.0	21.4	3 22	14 23.85	-33 7.0	2.659	3.428	12.0	20.5
4 1	14 17.73	-13 9.4	2.458	3.390	7.2	21.2	4 1	14 18.46	-32 56.1	2.577	3.435	9.9	20.4
4 11	14 11.11	-12 39.9	2.412	3.394	4.0	21.0	4 11	14 11.56	-32 26.6	2.518	3.441	7.6	20.2
4 21	14 3.70	-12 6.0	2.393	3.398	0.6	20.8	4 21	14 3.79	-31 38.7	2.485	3.447	5.7	20.1
5 1	13 56.20	-11 31.0	2.404	3.402	2.9	21.0	5 1	13 55.94	-30 34.8	2.479	3.453	5.1	20.1
5 11	13 49.32	-10 58.8	2.444	3.405	6.2	21.2	5 11	13 48.81	-29 19.6	2.502	3.458	6.3	20.2
5 21	13 43.63	-10 32.4	2.510	3.409	9.1	21.4	5 21	13 43.02	-27 59.0	2.552	3.463	8.5	20.3
5 31	13 39.54	-10 14.5	2.599	3.412	11.7	21.6	5 31	13 39.02	-26 39.0	2.626	3.468	10.7	20.5
<b>312535</b>	2009 <i>EY</i> <sub>2</sub>		4 22.8 301°26	5°6'/28.5	16		<b>45201</b>	1999 <i>XT</i> <sub>170</sub>					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>175281</b>	Kolonics		4 22.8 210°76	4.6/17.8	18		<b>95412</b>	2002 CV <sub>219</sub>		4 22.8 292°12	2.1/20.6	17	
3 22	14 22.65	+ 0 32.0	2.396	3.268	9.9	20.8	3 22	14 21.32	- 8 12.4	2.292	3.163	10.3	19.4
4 1	14 17.54	+ 1 33.3	2.329	3.264	7.3	20.6	4 1	14 16.73	- 7 25.7	2.211	3.152	7.3	19.1
4 11	14 11.04	+ 2 32.9	2.288	3.260	5.1	20.5	4 11	14 10.66	- 6 34.2	2.157	3.142	4.1	18.9
4 21	14 3.72	+ 3 25.7	2.276	3.256	4.7	20.5	4 21	14 3.69	- 5 41.8	2.130	3.131	2.1	18.8
5 1	13 56.30	+ 4 7.0	2.291	3.251	6.5	20.6	5 1	13 56.55	- 4 53.4	2.132	3.120	4.4	18.9
5 11	13 49.49	+ 4 33.4	2.334	3.246	9.0	20.7	5 11	13 50.01	- 4 13.4	2.162	3.110	7.7	19.1
5 21	13 43.89	+ 4 43.3	2.400	3.241	11.6	20.9	5 21	13 44.68	- 3 45.1	2.216	3.100	10.8	19.3
5 31	13 39.92	+ 4 36.7	2.487	3.235	13.9	21.0	5 31	13 41.03	- 3 30.5	2.292	3.089	13.5	19.4
<b>140453</b>	2001 TN <sub>123</sub>		4 22.8 282°42	5.7/27.7	17		<b>388769</b>	2007 YT <sub>23</sub>		4 22.8 109°58	1.8/24.6	17	
3 22	14 25.84	-29 57.5	2.166	2.961	13.6	19.8	3 22	14 24.22	-20 5.0	2.377	3.213	11.3	21.8
4 1	14 20.35	-30 21.8	2.074	2.951	11.1	19.6	4 1	14 18.72	-19 52.7	2.307	3.223	8.4	21.6
4 11	14 12.85	-30 27.9	2.005	2.941	8.4	19.4	4 11	14 11.71	-19 28.6	2.263	3.234	5.2	21.5
4 21	14 4.02	-30 14.4	1.960	2.930	6.2	19.3	4 21	14 3.84	-18 54.6	2.245	3.244	2.3	21.3
5 1	13 54.84	-29 42.4	1.942	2.920	5.8	19.2	5 1	13 55.91	-18 14.0	2.257	3.255	2.9	21.3
5 11	13 46.35	-28 56.0	1.951	2.910	7.6	19.3	5 11	13 48.69	-17 31.0	2.297	3.265	6.0	21.5
5 21	13 39.43	-28 1.3	1.985	2.900	10.4	19.5	5 21	13 42.80	-16 50.2	2.363	3.275	9.1	21.8
5 31	13 34.73	-27 5.0	2.043	2.889	13.2	19.6	5 31	13 38.70	-16 15.5	2.453	3.284	11.8	21.9
<b>309901</b>	2009 EV <sub>19</sub>		4 22.8 138°15	1.0/21.9	18		<b>242171</b>	2003 GG <sub>51</sub>		4 22.8 323°73	3.7/20.8	16	R
3 22	14 27.91	-12 36.6	1.705	2.570	13.6	21.2	3 22	14 32.16	- 0 18.6	2.012	2.874	11.9	19.9
4 1	14 21.70	-11 49.2	1.644	2.581	9.7	21.0	4 1	14 24.68	- 0 38.4	1.931	2.863	8.8	19.7
4 11	14 13.47	-10 51.9	1.606	2.591	5.3	20.7	4 11	14 15.17	- 1 3.1	1.876	2.853	5.5	19.5
4 21	14 4.09	- 9 49.5	1.596	2.600	1.1	20.5	4 21	14 4.39	- 1 35.4	1.849	2.843	3.7	19.4
5 1	13 54.67	- 8 48.4	1.614	2.609	4.4	20.7	5 1	13 53.34	- 2 17.0	1.852	2.834	5.7	19.5
5 11	13 46.28	- 7 55.3	1.659	2.618	8.7	21.0	5 11	13 43.06	- 3 9.0	1.884	2.825	9.1	19.6
5 21	13 39.74	- 7 15.0	1.728	2.625	12.6	21.2	5 21	13 34.40	- 4 10.7	1.942	2.816	12.5	19.8
5 31	13 35.55	- 6 50.5	1.818	2.632	15.9	21.5	5 31	13 27.97	- 5 21.5	2.022	2.808	15.4	20.0
<b>334899</b>	2003 WB <sub>78</sub>		4 22.8 145°68	0.9/23.7	17		<b>489343</b>	2006 UP <sub>37</sub>		4 22.8 145°47	0.5/22.3	17	
3 22	14 25.31	-17 17.3	2.656	3.494	10.1	22.2	3 22	14 25.17	-11 12.1	2.952	3.802	8.9	22.9
4 1	14 19.32	-16 58.5	2.585	3.506	7.4	22.0	4 1	14 19.09	-11 2.4	2.883	3.813	6.3	22.7
4 11	14 11.97	-16 30.7	2.540	3.517	4.3	21.8	4 11	14 11.81	-10 48.4	2.841	3.823	3.5	22.5
4 21	14 3.86	-15 55.8	2.524	3.527	1.3	21.6	4 21	14 3.86	-10 32.0	2.828	3.832	0.6	22.3
5 1	13 55.70	-15 16.9	2.538	3.537	2.6	21.7	5 1	13 55.86	-10 15.7	2.846	3.841	2.7	22.5
5 11	13 48.19	-14 37.9	2.582	3.546	5.7	22.0	5 11	13 48.42	-10 2.0	2.894	3.850	5.6	22.7
5 21	13 41.90	-14 2.5	2.652	3.554	8.6	22.2	5 21	13 42.04	- 9 53.2	2.969	3.858	8.2	22.9
5 31	13 37.23	-13 33.8	2.747	3.562	11.1	22.3	5 31	13 37.11	- 9 51.0	3.068	3.866	10.4	23.0
<b>108604</b>	2001 MJ <sub>19</sub>		4 22.8 286°15	0.8/22.2	17		<b>352410</b>	2007 XJ <sub>42</sub>		4 22.8 10°54	9.5/13.3	16	
3 22	14 26.33	-12 11.5	1.629	2.500	13.8	19.7	3 22	14 21.12	+11 52.2	1.814	2.685	12.6	20.0
4 1	14 21.03	-11 47.6	1.539	2.478	10.0	19.5	4 1	14 16.76	+13 22.2	1.773	2.688	10.6	19.9
4 11	14 13.38	-11 13.8	1.472	2.456	5.6	19.1	4 11	14 10.70	+14 38.9	1.756	2.691	9.5	19.8
4 21	14 4.12	-10 33.4	1.430	2.435	1.0	18.8	4 21	14 3.70	+15 34.6	1.763	2.694	9.9	19.8
5 1	13 54.37	- 9 51.7	1.416	2.413	4.5	19.0	5 1	13 56.67	+16 3.9	1.794	2.699	11.6	19.9
5 11	13 45.37	- 9 15.2	1.427	2.390	9.4	19.2	5 11	13 50.50	+16 4.6	1.846	2.704	13.7	20.1
5 21	13 38.17	- 8 49.1	1.462	2.368	13.9	19.4	5 21	13 45.87	+15 38.3	1.919	2.709	15.9	20.2
5 31	13 33.51	- 8 37.6	1.517	2.346	17.8	19.6	5 31	13 43.22	+14 48.1	2.008	2.715	17.9	20.4
<b>431947</b>	2008 UC <sub>30</sub>		4 22.8 217°81	0.7/22.2	17		<b>254524</b>	2005 EL <sub>112</sub>		4 22.8 359°29	1.6/21.8	17	
3 22	14 24.45	-12 27.5	2.116	2.978	11.4	21.9	3 22	14 24.61	-10 39.6	1.198	2.088	16.3	19.9
4 1	14 19.06	-11 54.2	2.038	2.974	8.2	21.4	4 1	14 20.11	-10 14.8	1.137	2.086	11.7	19.6
4 11	14 11.98	-11 12.7	1.985	2.969	4.5	21.4	4 11	14 12.92	- 9 40.5	1.096	2.084	6.4	19.3
4 21	14 3.89	-10 26.6	1.960	2.964	0.8	21.2	4 21	14 4.07	- 9 2.1	1.079	2.083	1.7	19.0
5 1	13 55.62	- 9 40.3	1.963	2.959	3.6	21.4	5 1	13 54.96	- 8 26.4	1.087	2.084	5.5	19.2
5 11	13 48.06	- 8 58.8	1.994	2.954	7.4	21.6	5 11	13 47.06	- 8 0.7	1.117	2.085	10.9	19.5
5 21	13 41.91	- 8 26.3	2.051	2.948	10.9	21.8	5 21	13 41.47	- 7 49.8	1.168	2.087	15.7	19.8
5 31	13 37.68	- 8 5.6	2.129	2.942	13.9	22.0	5 31	13 38.84	- 7 56.5	1.238	2.089	19.7	20.1
<b>507435</b>	2012 RF <sub>39</sub>		4 22.8 317°19	1.2/23.6	17		<b>266398</b>	2007 EC <sub>183</sub>		4 22.8 118°26	2.2/20.9	17	R
3 22	14 26.05	-16 2.6	1.727	2.587	13.7	21.2	3 22	14 25.67	- 8 48.2	1.841	2.712	12.4	21.3
4 1	14 20.66	-16 8.3	1.646	2.577	10.1	21.0	4 1	14 19.99	- 8 1.7	1.781	2.721	8.8	21.1
4 11	14 13.07	-16 3.1	1.588	2.569	5.9	20.7	4 11	14 12.50	- 7 9.7	1.745	2.730	4.9	20.9
4 21	14 4.07	-15 48.7	1.557	2.560	1.7	20.4	4 21	14 3.98	- 6 17.0	1.737	2.739	2.2	20.7
5 1	13 54.73	-15 28.1	1.552	2.551	3.7	20.5	5 1	13 55.42	- 5 29.5	1.757	2.747	4.9	20.9
5 11	13 46.20	-15 6.4	1.574	2.543	8.1	20.8	5 11	13 47.76	- 4 52.2	1.804	2.755	8.7	21.2
5 21	13 39.43	-14 48.3	1.620	2.536	12.2	21.0	5 21	13 41.75	- 4 28.5	1.874	2.763	12.2	21.4
5 31	13 35.07	-14 38.2	1.686	2.528	15.7	21.2	5 31	13 37.85	- 4 20.2	1.966	2.770	15.2	21.6
<b>124422</b>	2001 QL <sub>234</sub>		4 22.8 164°92	2.4/24.4	18		<b>331919</b>	2004 RU <sub>194</sub>		4 22.8 268°48	1.6/21.2	18	
3 22	14 30.57	-19 46.6	1.646	2.491	15.0	20.3	3 22	14 24.45	-11 33.5	2.055	2.919	11.6	21.6
4 1	14 23.91	-19 44.9	1.574	2.495	11.2	20.1	4 1	14 19.27	-10 29.2	1.956	2.893	8.3	21.3
4 11	14 14.85	-19 27.5	1.526	2.499	7.0	19.8	4 11	14 12.23	- 9 14.1	1.882	2.867	4.6	21.1
4 21	14 4.34	-18 55.7	1.503	2.503	3.0	19.6	4 21	14 3.97	- 7 52.8	1.836	2.839	1.6	20.8
5 1	13 53.60	-18 13.5	1.507	2.505	4.0	19.7	5 1	13 55.35	- 6 31.7	1.820	2.812	4.5	20.9
5 11	13 43.93	-17 27.2	1.538	2.507	8.3	19.9	5 11	13 47.33	- 5 17.8	1.831	2.783	8.6	21.1
5 21	13 36.30	-16 43.7	1.594	2.509	12.4	20.2	5 21	13 40.69	- 4 16.7	1.868	2.754	12.4	21.3
5 31	13 31.35	-16 8.8	1.671	2.510	16.0	20.4	5 31	13 36.07	- 3 32.4	1.926	2.725	15.7	21.5
<b>503078</b>	2015 FY <sub>265</sub>		4 22.8 12°80	2.6/20.7	17		<b>443293</b>	2014 FS <sub>6</sub>					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>293530</b>	2007 <i>GK</i> <sub>62</sub>		4 22.8 326°43	0°1/22.8	14 C		<b>366493</b>	2002 <i>NA</i> <sub>78</sub>		4 22.8 321°54	1°1/22.1	17	
3 22	14 28.15	-12 9.1	1.111	1.998	17.5	20.9	3 22	14 25.01	-11 34.7	1.284	2.169	15.8	20.8
4 1	14 23.12	-12 21.7	1.039	1.986	12.8	20.5	4 1	14 20.48	-11 14.1	1.208	2.155	11.4	20.5
4 11	14 14.87	-12 24.9	0.988	1.974	7.3	20.2	4 11	14 13.23	-10 42.9	1.153	2.140	6.3	20.2
4 21	14 4.42	-12 21.1	0.959	1.963	1.1	19.7	4 21	14 4.18	-10 5.4	1.122	2.127	1.3	19.8
5 1	13 53.36	-12 14.6	0.953	1.953	5.2	20.0	5 1	13 54.65	-9 28.1	1.116	2.114	5.2	20.0
5 11	13 43.48	-12 11.6	0.971	1.944	11.3	20.3	5 11	13 46.12	-8 58.3	1.133	2.101	10.7	20.3
5 21	13 36.20	-12 17.2	1.009	1.936	16.7	20.5	5 21	13 39.78	-8 41.7	1.172	2.090	15.7	20.5
5 31	13 32.41	-12 35.6	1.064	1.928	21.3	20.8	5 31	13 36.41	-8 42.0	1.228	2.079	19.9	20.7
<b>284217</b>	2006 <i>CG</i> <sub>18</sub>		4 22.8 346°43	4°4/30.0	18		<b>407879</b>	2012 <i>BD</i> <sub>103</sub>		4 22.8 101°77	5°1/19.1	18	
3 22	14 19.65	-35 27.6	4.070	4.808	8.7	20.2	3 22	14 27.17	-2 11.0	1.553	2.435	13.7	20.7
4 1	14 15.18	-35 42.2	3.978	4.806	7.3	20.0	4 1	14 21.27	-1 9.8	1.502	2.445	9.9	20.5
4 11	14 9.68	-35 44.5	3.909	4.805	6.0	19.9	4 11	14 13.29	-0 9.2	1.475	2.454	6.4	20.3
4 21	14 3.57	-35 34.3	3.866	4.803	4.8	19.9	4 21	14 4.15	+0 43.6	1.474	2.464	5.2	20.2
5 1	13 57.33	-35 12.4	3.851	4.801	4.5	19.8	5 1	13 54.99	+1 21.9	1.499	2.473	7.6	20.4
5 11	13 51.47	-34 40.6	3.863	4.800	5.0	19.9	5 11	13 46.94	+1 41.1	1.548	2.482	11.3	20.6
5 21	13 46.44	-34 1.9	3.902	4.799	6.2	19.9	5 21	13 40.80	+1 39.9	1.621	2.491	14.8	20.9
5 31	13 42.58	-33 19.6	3.967	4.797	7.6	20.0	5 31	13 37.08	+1 18.8	1.711	2.500	17.7	21.1
<b>87114</b>	2000 <i>LS</i> <sub>27</sub>		4 22.8 225°06	5°1/17.4	18		<b>66793</b>	1999 <i>TW</i> <sub>236</sub>		4 22.8 87°68	4°8/18.4	18	
3 22	14 25.49	+2 11.0	2.414	3.280	10.0	20.0	3 22	14 23.93	-1 34.0	1.895	2.773	11.8	19.2
4 1	14 19.63	+3 14.2	2.338	3.268	7.6	19.9	4 1	14 18.65	-0 23.9	1.845	2.785	8.5	19.0
4 11	14 12.26	+4 15.1	2.287	3.254	5.6	19.7	4 11	14 11.72	+0 45.0	1.820	2.797	5.7	18.9
4 21	14 3.97	+5 8.3	2.266	3.240	5.2	19.7	4 21	14 3.90	+1 46.6	1.823	2.809	4.9	18.9
5 1	13 55.50	+5 48.9	2.272	3.224	7.0	19.9	5 1	13 56.09	+2 34.7	1.853	2.821	7.0	19.0
5 11	13 47.62	+6 13.4	2.306	3.209	9.6	19.7	5 11	13 49.15	+3 5.4	1.909	2.833	10.0	19.2
5 21	13 40.97	+6 20.4	2.364	3.192	12.2	20.0	5 21	13 43.74	+3 17.0	1.987	2.845	13.0	19.4
5 31	13 36.03	+6 9.7	2.443	3.175	14.5	20.2	5 31	13 40.30	+3 9.8	2.086	2.856	15.5	19.6
<b>139275</b>	2001 <i>HR</i> <sub>64</sub>		4 22.8 29°74	0°2/22.9	17		<b>58084</b>	Hiketaon		4 22.8 216°76	1°3/25.3	18	
3 22	14 26.50	-14 1.2	1.266	2.146	16.3	19.5	3 22	14 16.34	-21 36.2	4.990	5.806	6.1	20.4
4 1	14 21.30	-13 53.0	1.211	2.153	11.8	19.2	4 1	14 12.59	-21 22.1	4.898	5.801	4.6	20.3
4 11	14 13.50	-13 32.8	1.177	2.162	6.6	18.9	4 11	14 8.17	-21 1.8	4.833	5.797	3.0	20.1
4 21	14 4.17	-13 3.9	1.166	2.171	1.1	18.6	4 21	14 3.36	-20 36.1	4.797	5.792	1.5	20.0
5 1	13 54.71	-12 32.3	1.180	2.180	4.5	18.8	5 1	13 58.49	-20 6.5	4.791	5.787	1.7	20.0
5 11	13 46.53	-12 4.5	1.219	2.190	9.7	19.2	5 11	13 53.88	-19 34.9	4.815	5.782	3.2	20.1
5 21	13 40.66	-11 46.2	1.280	2.201	14.3	19.5	5 21	13 49.84	-19 3.1	4.868	5.776	4.8	20.3
5 31	13 37.67	-11 41.1	1.359	2.213	18.2	19.7	5 31	13 46.59	-18 33.1	4.947	5.771	6.3	20.4
<b>388762</b>	2007 <i>XF</i> <sub>49</sub>		4 22.8 91°42	0°9/21.9	17		<b>214575</b>	2006 <i>QJ</i> <sub>42</sub>		4 22.8 283°92	2°3/21.2	17	
3 22	14 23.79	-11 24.2	2.271	3.133	10.8	21.6	3 22	14 26.15	-9 11.3	1.504	2.384	14.2	20.5
4 1	14 18.38	-10 54.3	2.211	3.147	7.6	21.5	4 1	14 20.92	-8 32.0	1.428	2.372	10.2	20.2
4 11	14 11.51	-10 18.4	2.176	3.160	4.1	21.3	4 11	14 13.32	-7 44.9	1.375	2.361	5.7	19.9
4 21	14 3.85	-9 39.8	2.170	3.174	0.9	21.0	4 21	14 4.19	-6 55.1	1.347	2.350	2.3	19.7
5 1	13 56.17	-9 2.5	2.193	3.188	3.4	21.3	5 1	13 54.72	-6 9.5	1.345	2.338	5.6	19.8
5 11	13 49.22	-8 30.6	2.243	3.201	6.9	21.5	5 11	13 46.17	-5 34.6	1.369	2.327	10.3	20.1
5 21	13 43.61	-8 7.1	2.319	3.214	9.9	21.7	5 21	13 39.55	-5 15.2	1.415	2.315	14.7	20.3
5 31	13 39.75	-7 54.2	2.418	3.227	12.6	21.9	5 31	13 35.54	-5 13.7	1.480	2.304	18.4	20.5
<b>474943</b>	2005 <i>SE</i> <sub>287</sub>		4 22.8 325°85	6°7/16.8	16		<b>432678</b>	2011 <i>BC</i> <sub>14</sub>		4 22.8 147°24	6°0/27.5	17	
3 22	14 21.08	+2 21.0	1.693	2.580	12.5	20.3	3 22	14 29.35	-29 23.1	1.924	2.724	14.9	21.3
4 1	14 17.08	+3 32.7	1.615	2.555	9.5	20.1	4 1	14 23.00	-29 53.8	1.847	2.728	12.1	21.1
4 11	14 11.09	+4 41.9	1.560	2.531	7.2	19.9	4 11	14 14.38	-30 4.6	1.792	2.731	9.0	21.0
4 21	14 3.82	+5 41.1	1.531	2.507	7.0	19.8	4 21	14 4.34	-29 54.0	1.762	2.735	6.6	20.8
5 1	13 56.22	+6 22.6	1.527	2.484	9.3	19.9	5 1	13 54.03	-29 23.3	1.758	2.738	6.2	20.8
5 11	13 49.32	+6 41.3	1.546	2.462	12.5	20.0	5 11	13 44.63	-28 37.5	1.781	2.741	8.2	20.9
5 21	13 43.99	+6 35.2	1.587	2.440	15.9	20.2	5 21	13 37.12	-27 43.6	1.830	2.744	11.1	21.1
5 31	13 40.85	+6 5.1	1.645	2.420	18.9	20.4	5 31	13 32.12	-26 49.1	1.900	2.746	14.1	21.3
<b>199805</b>	2007 <i>BE</i> <sub>70</sub>		4 22.8 277°33	2°8/20.0	17		<b>292141</b>	2006 <i>RG</i> <sub>84</sub>		4 22.8 242°21	1°5/21.2	18	
3 22	14 22.78	-8 53.0	1.861	2.737	12.1	20.3	3 22	14 21.90	-10 41.2	2.280	3.146	10.5	21.0
4 1	14 18.14	-7 31.5	1.775	2.718	8.6	20.0	4 1	14 17.15	-9 45.4	2.202	3.140	7.5	20.8
4 11	14 11.62	-6 0.4	1.715	2.700	4.9	19.7	4 11	14 10.91	-8 42.5	2.150	3.135	4.1	20.6
4 21	14 3.90	-4 26.4	1.681	2.681	2.9	19.6	4 21	14 3.79	-7 36.8	2.126	3.129	1.5	20.4
5 1	13 55.90	-2 57.2	1.676	2.662	5.7	19.7	5 1	13 56.54	-6 33.3	2.131	3.123	4.0	20.6
5 11	13 48.60	-1 40.4	1.698	2.642	9.7	19.9	5 11	13 49.91	-5 37.3	2.164	3.116	7.4	20.8
5 21	13 42.79	-0 41.6	1.744	2.623	13.5	20.1	5 21	13 44.54	-4 52.8	2.223	3.110	10.6	21.0
5 31	13 39.08	-0 3.7	1.809	2.604	16.7	20.3	5 31	13 40.87	-4 22.3	2.303	3.104	13.4	21.1
<b>37509</b>	3192 <i>T</i> <sub>-2</sub>		4 22.8 246°24	0°1/22.8	18		<b>176017</b>	2000 <i>SD</i> <sub>19</sub>		4 22.8 128°49	0°7/23.5	18	
3 22	14 24.46	-13 26.3	2.710	3.559	9.6	20.2	3 22	14 22.15	-17 29.5	2.413	3.260	10.7	20.0
4 1	14 18.87	-13 11.8	2.614	3.543	6.9	19.9	4 1	14 17.24	-16 48.0	2.339	3.265	7.8	19.8
4 11	14 11.85	-12 50.7	2.545	3.526	3.9	19.7	4 11	14 10.92	-15 55.7	2.292	3.271	4.5	19.6
4 21	14 3.93	-12 24.9	2.504	3.508	0.6	19.4	4 21	14 3.80	-14 55.7	2.272	3.276	1.1	19.3
5 1	13 55.77	-11 57.3	2.493	3.490	2.8	19.6	5 1	13 56.61	-13 52.2	2.282	3.281	2.8	19.5
5 11	13 48.10	-11 31.2	2.512	3.472	6.1	19.8	5 11	13 50.09	-12 50.3	2.320	3.286	6.2	19.7
5 21	13 41.51	-11 9.7	2.557	3.453	9.1	19.9	5 21	13 44.81	-11 54.7	2.385	3.290	9.3	19.9
5 31	13 36.48	-10 55.6	2.626	3.434	11.7	20.1	5 31	13 41.20	-11 9.0	2.473	3.295	11.9	20.1
<b>367787</b>	2011 <i>AE</i> <sub>1</sub>		4 22.8 172°32	1°0/23.7	17		<b>22822</b>	1999 <i>RT</i> <sub>35</sub>		4 22.8 256°30	2°6/24.4	18	
3 22	14 26.72	-17 3											

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>179473</b>	2002 BU <sub>26</sub>	4 22.8 112°23 0°2/22.6 18					<b>457770</b>	2009 KA <sub>6</sub>	4 22.8 246°83 4°0/14.8 18				
3 22	14 24.21	-13 14.1	2.574	3.427	10.0	20.8	3 22	14 16.41	+ 9 55.6	4.707	5.560	5.8	21.2
4 1	14 18.56	-12 54.5	2.511	3.442	7.1	20.6	4 1	14 12.65	+10 34.8	4.644	5.552	4.7	21.2
4 11	14 11.60	-12 28.5	2.474	3.456	3.9	20.4	4 11	14 8.23	+11 9.3	4.607	5.543	4.1	21.1
4 21	14 3.91	-11 58.5	2.466	3.471	0.6	20.2	4 21	14 3.43	+11 36.7	4.598	5.534	4.2	21.1
5 1	13 56.19	-11 27.9	2.488	3.485	2.8	20.4	5 1	13 58.58	+11 55.1	4.618	5.526	5.0	21.2
5 11	13 49.14	-10 59.9	2.538	3.498	6.0	20.6	5 11	13 54.00	+12 3.4	4.664	5.517	6.1	21.2
5 21	13 43.29	-10 37.7	2.615	3.512	8.9	20.8	5 21	13 49.99	+12 1.0	4.735	5.508	7.3	21.3
5 31	13 39.04	-10 23.5	2.715	3.525	11.3	21.0	5 31	13 46.78	+11 48.2	4.826	5.499	8.4	21.4
<b>113026</b>	2002 RR <sub>45</sub>	4 22.8 315°44 0°6/22.3 17					<b>383919</b>	2008 SX <sub>145</sub>	4 22.8 148°22 1°0/23.8 17				
3 22	14 24.55	-12 10.0	1.968	2.833	12.0	19.7	3 22	14 26.83	-17 2.0	2.418	3.259	11.0	21.6
4 1	14 19.26	-11 47.0	1.895	2.832	8.6	19.4	4 1	14 20.58	-16 53.2	2.346	3.268	8.0	21.4
4 11	14 12.18	-11 16.3	1.846	2.830	4.7	19.2	4 11	14 12.81	-16 34.9	2.300	3.276	4.7	21.2
4 21	14 4.02	-10 41.1	1.825	2.829	0.8	18.9	4 21	14 4.15	-16 9.0	2.282	3.285	1.5	21.0
5 1	13 55.70	-10 5.9	1.831	2.828	3.7	19.1	5 1	13 55.39	-15 38.6	2.294	3.292	2.8	21.1
5 11	13 48.15	- 9 35.4	1.865	2.827	7.7	19.4	5 11	13 47.35	-15 7.4	2.335	3.300	6.2	21.3
5 21	13 42.10	- 9 13.4	1.923	2.825	11.3	19.6	5 21	13 40.64	-14 39.2	2.402	3.306	9.3	21.5
5 31	13 38.09	- 9 2.7	2.003	2.824	14.4	19.8	5 31	13 35.75	-14 17.6	2.493	3.312	11.9	21.7
<b>110096</b>	2001 SW <sub>122</sub>	4 22.8 41°53 1°9/20.9 18					<b>232632</b>	2003 UY <sub>221</sub>	4 22.8 59°58 2°7/20.8 17				
3 22	14 21.84	-10 12.1	2.006	2.878	11.5	19.3	3 22	14 25.99	- 6 28.0	1.781	2.656	12.6	19.9
4 1	14 17.23	- 9 8.4	1.939	2.881	8.1	19.1	4 1	14 20.24	- 6 0.0	1.729	2.670	8.9	19.7
4 11	14 11.00	- 7 57.3	1.898	2.883	4.5	18.9	4 11	14 12.68	- 5 29.4	1.701	2.685	5.1	19.5
4 21	14 3.85	- 6 44.2	1.884	2.886	1.9	18.7	4 21	14 4.13	- 5 0.8	1.700	2.700	2.7	19.4
5 1	13 56.61	- 5 35.3	1.898	2.889	4.5	18.9	5 1	13 55.57	- 4 38.8	1.726	2.715	5.1	19.6
5 11	13 50.13	- 4 36.3	1.940	2.892	8.2	19.1	5 11	13 47.98	- 4 27.1	1.779	2.730	8.9	19.8
5 21	13 45.07	- 3 51.3	2.006	2.895	11.5	19.3	5 21	13 42.07	- 4 28.1	1.855	2.745	12.3	20.1
5 31	13 41.87	- 3 22.8	2.094	2.898	14.4	19.5	5 31	13 38.31	- 4 42.4	1.952	2.760	15.2	20.3
<b>250406</b>	2003 UX <sub>226</sub>	4 22.8 275°69 2°4/24.5 17					<b>99978</b>	1981 ER <sub>13</sub>	4 22.8 87°68 2°3/24.8 18 R				
3 22	14 26.53	-20 16.5	1.568	2.421	15.2	20.1	3 22	14 26.24	-20 48.2	1.785	2.629	14.0	20.4
4 1	14 21.36	-20 0.5	1.479	2.404	11.5	19.9	4 1	14 20.60	-20 32.5	1.720	2.640	10.5	20.2
4 11	14 13.67	-19 26.1	1.411	2.386	7.2	19.6	4 11	14 12.97	-20 1.0	1.678	2.651	6.6	19.9
4 21	14 4.30	-18 34.8	1.368	2.369	3.0	19.3	4 21	14 4.19	-19 15.7	1.663	2.662	2.9	19.7
5 1	13 54.45	-17 31.3	1.352	2.351	4.1	19.3	5 1	13 55.32	-18 21.4	1.675	2.673	3.7	19.8
5 11	13 45.45	-16 23.2	1.361	2.333	8.8	19.5	5 11	13 47.44	-17 24.5	1.713	2.684	7.5	20.1
5 21	13 38.40	-15 19.0	1.395	2.316	13.4	19.7	5 21	13 41.35	-16 31.4	1.777	2.695	11.2	20.3
5 31	13 34.07	-14 26.0	1.448	2.298	17.5	19.9	5 31	13 37.56	-15 47.4	1.863	2.706	14.4	20.5
<b>462246</b>	2008 CT <sub>126</sub>	4 22.8 78°81 0°9/22.2 17					<b>305318</b>	2008 AU <sub>54</sub>	4 22.8 28°96 4°4/26.9 18				
3 22	14 26.39	-12 54.4	1.528	2.401	14.5	21.7	3 22	14 24.56	-27 16.7	2.241	3.050	12.8	20.4
4 1	14 20.83	-12 13.2	1.472	2.412	10.3	21.5	4 1	14 19.27	-27 23.8	2.160	3.051	10.1	20.2
4 11	14 13.11	-11 21.3	1.439	2.424	5.6	21.3	4 11	14 12.22	-27 14.0	2.103	3.051	7.3	20.1
4 21	14 4.18	-10 23.9	1.431	2.435	1.0	21.0	4 21	14 4.08	-26 47.6	2.070	3.052	4.9	19.9
5 1	13 55.20	- 9 27.6	1.450	2.447	4.5	21.2	5 1	13 55.76	-26 6.8	2.066	3.053	4.6	19.9
5 11	13 47.35	- 8 39.3	1.495	2.458	9.1	21.5	5 11	13 48.16	-25 16.1	2.088	3.053	6.8	20.0
5 21	13 41.45	- 8 4.1	1.564	2.470	13.2	21.8	5 21	13 42.03	-24 21.4	2.137	3.054	9.6	20.2
5 31	13 38.03	- 7 44.8	1.652	2.481	16.6	22.1	5 31	13 37.90	-23 28.4	2.209	3.055	12.3	20.4
<b>82593</b>	2001 OW <sub>90</sub>	4 22.8 225°78 1°7/24.5 18 R					<b>339023</b>	2004 HA <sub>35</sub>	4 22.8 51°09 1°0/22.1 17				
3 22	14 24.26	-19 42.2	2.370	3.207	11.3	19.9	3 22	14 26.20	-10 2.8	1.971	2.837	12.0	20.6
4 1	14 18.91	-19 26.6	2.283	3.201	8.4	19.7	4 1	14 20.36	- 9 57.7	1.908	2.846	8.5	20.4
4 11	14 11.95	-18 59.2	2.221	3.194	5.2	19.5	4 11	14 12.76	- 9 47.6	1.871	2.855	4.7	20.1
4 21	14 4.01	-18 21.4	2.187	3.187	2.1	19.3	4 21	14 4.16	- 9 35.5	1.860	2.864	1.1	19.9
5 1	13 55.87	-17 36.6	2.181	3.179	3.0	19.3	5 1	13 55.47	- 9 24.5	1.878	2.874	3.8	20.1
5 11	13 48.36	-16 49.2	2.204	3.172	6.3	19.5	5 11	13 47.62	- 9 18.3	1.923	2.884	7.6	20.4
5 21	13 42.14	-16 4.1	2.253	3.164	9.5	19.7	5 21	13 41.33	- 9 19.5	1.994	2.894	11.1	20.6
5 31	13 37.73	-15 25.4	2.326	3.156	12.3	19.9	5 31	13 37.08	- 9 30.0	2.086	2.904	14.0	20.8
<b>433878</b>	2015 BY <sub>329</sub>	4 22.8 206°52 0°7/23.3 17					<b>518988</b>	2010 JU <sub>17</sub>	4 22.8 265°91 3°8/26.8 17				
3 22	14 27.02	-15 18.3	1.983	2.837	12.4	21.2	3 22	14 23.41	-26 40.1	2.370	3.180	12.1	21.0
4 1	14 21.08	-15 11.6	1.906	2.835	9.1	21.0	4 1	14 18.39	-26 34.2	2.281	3.174	9.6	20.8
4 11	14 13.24	-14 55.3	1.852	2.832	5.2	20.7	4 11	14 11.71	-26 12.1	2.216	3.168	6.8	20.6
4 21	14 4.22	-14 31.3	1.826	2.830	1.2	20.4	4 21	14 4.01	-25 34.3	2.177	3.162	4.4	20.5
5 1	13 54.98	-14 3.2	1.828	2.827	3.3	20.6	5 1	13 56.10	-24 43.3	2.166	3.156	4.1	20.4
5 11	13 46.52	-13 35.5	1.858	2.824	7.4	20.8	5 11	13 48.85	-23 43.9	2.183	3.150	6.4	20.6
5 21	13 39.63	-13 12.6	1.913	2.820	11.1	21.0	5 21	13 42.95	-22 41.6	2.226	3.143	9.3	20.7
5 31	13 34.88	-12 58.1	1.990	2.817	14.2	21.3	5 31	13 38.92	-21 42.3	2.293	3.137	12.0	20.9
<b>177234</b>	2003 UU <sub>252</sub>	4 22.8 39°41 2°3/21.5 17					<b>501941</b>	2014 XA <sub>38</sub>	4 22.8 80°72 8°2/30.2 17				
3 22	14 28.30	- 8 2.5	1.360	2.242	15.2	19.6	3 22	14 28.94	-35 55.6	1.818	2.588	16.8	21.3
4 1	14 22.45	- 7 46.3	1.303	2.248	10.9	19.3	4 1	14 22.85	-36 24.2	1.751	2.602	14.1	21.1
4 11	14 14.13	- 7 25.4	1.269	2.255	6.1	19.1	4 11	14 14.35	-36 26.5	1.704	2.615	11.3	20.9
4 21	14 4.35	- 7 4.4	1.259	2.262	2.3	18.8	4 21	14 4.42	-36 0.4	1.680	2.629	9.0	20.8
5 1	13 54.45	- 6 48.7	1.275	2.269	5.6	19.1	5 1	13 54.33	-35 7.6	1.681	2.643	8.2	20.8
5 11	13 45.77	- 6 43.1	1.316	2.277	10.3	19.3	5 11	13 45.40	-33 54.4	1.707	2.656	9.3	20.9
5 21	13 39.27	- 6 50.7	1.379	2.285	14.6	19.6	5 21	13 38.60	-32 29.7	1.757	2.669	11.6	21.1
5 31	13 35.55	- 7 12.8	1.461	2.293	18.2	19.9	5 31	13 34.50	-31 3.2	1.830	2.683	14.2	21.3
<b>40452</b>	1999 RV <sub>38</sub>	4 22.8 256°59 0°4/22.5 18					<b>470514</b>	2008 CK <sub>132</sub>	4 22.8 165°07 3°6/26.3 17				
3 22	14 29.18	-12 19.5	1.659	2.524	13.9	19.4	3 22	14 24.69	-25 13.0	2.425	3.238	11.8	21.8
4 1	14 23.05	-12 10.2	1.574	2.510	10.1	19.1	4 1	14 19.23	-25 19.6	2.343	3.239	9.2	21.6
4 11	14												

EPHEMERIDES

4 22.8

4 22.8

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>58690</b>	1998 <i>BP</i> <sub>10</sub>		4 22.8 133°50	4.1/19.6	18		<b>106043</b>	2000 <i>SA</i> <sub>307</sub>		4 22.8 92°62	3.6/26.0	18	
3 22	14 28.45	- 3 59.3	1.725	2.600	13.0	19.9	3 22	14 28.31	-24 18.4	2.474	3.284	11.7	19.7
4 1	14 22.05	- 2 59.6	1.672	2.612	9.3	19.7	4 1	14 21.71	-24 45.4	2.407	3.302	9.1	19.5
4 11	14 13.71	- 1 58.6	1.643	2.624	5.7	19.5	4 11	14 13.48	-24 59.5	2.364	3.319	6.3	19.4
4 21	14 4.31	- 1 2.8	1.642	2.635	4.2	19.5	4 21	14 4.31	-25 0.4	2.350	3.336	4.0	19.2
5 1	13 54.91	- 0 18.3	1.668	2.646	6.6	19.6	5 1	13 55.03	-24 49.8	2.364	3.352	4.0	19.3
5 11	13 46.55	+ 0 10.2	1.720	2.656	10.2	19.9	5 11	13 46.50	-24 30.9	2.406	3.369	6.2	19.4
5 21	13 39.98	+ 0 20.5	1.796	2.665	13.6	20.1	5 21	13 39.38	-24 7.8	2.476	3.385	8.8	19.6
5 31	13 35.70	+ 0 12.5	1.891	2.674	16.5	20.3	5 31	13 34.15	-23 45.1	2.569	3.401	11.3	19.8
<b>128320</b>	2004 <i>EX</i> <sub>35</sub>		4 22.8 92°26	0.9/21.9	18		<b>347710</b>	2001 <i>XK</i> <sub>46</sub>		4 22.8 149°48	7.2/14.8	18	
3 22	14 21.99	-13 18.5	2.112	2.976	11.4	20.2	3 22	14 25.61	+14 12.7	2.765	3.605	9.7	20.4
4 1	14 17.31	-12 18.8	2.041	2.977	8.1	20.0	4 1	14 19.47	+14 58.6	2.719	3.613	8.2	20.3
4 11	14 11.06	-11 9.4	1.994	2.979	4.4	19.8	4 11	14 12.11	+15 33.3	2.700	3.619	7.3	20.3
4 21	14 3.91	- 9 54.9	1.976	2.980	0.9	19.5	4 21	14 4.09	+15 52.8	2.707	3.626	7.4	20.3
5 1	13 56.67	- 8 41.2	1.986	2.981	3.7	19.7	5 1	13 56.09	+15 54.1	2.740	3.632	8.5	20.4
5 11	13 50.14	- 7 34.1	2.024	2.982	7.4	19.9	5 11	13 48.75	+15 36.5	2.799	3.638	10.1	20.5
5 21	13 44.98	- 6 38.6	2.087	2.984	10.8	20.2	5 21	13 42.58	+15 1.0	2.881	3.643	11.8	20.6
5 31	13 41.63	- 5 57.7	2.173	2.985	13.7	20.3	5 31	13 37.96	+14 9.6	2.982	3.648	13.3	20.8
<b>372649</b>	2009 <i>WZ</i> <sub>30</sub>		4 22.8 287°47	0.9/22.1	17		<b>268171</b>	2004 <i>WF</i> <sub>5</sub>		4 22.8 230°08	1.4/21.5	18	
3 22	14 25.62	-11 36.9	1.724	2.594	13.2	20.5	3 22	14 26.20	- 9 37.1	2.318	3.178	10.6	21.2
4 1	14 20.37	-11 12.7	1.642	2.582	9.5	20.3	4 1	14 20.31	- 9 7.5	2.231	3.166	7.6	21.0
4 11	14 12.99	-10 39.9	1.584	2.569	5.3	20.0	4 11	14 12.78	- 8 32.5	2.170	3.153	4.2	20.8
4 21	14 4.24	-10 2.1	1.552	2.557	1.1	19.7	4 21	14 4.22	- 7 55.2	2.137	3.140	1.4	20.5
5 1	13 55.16	- 9 24.5	1.548	2.544	4.3	19.9	5 1	13 55.42	- 7 19.8	2.133	3.125	3.9	20.7
5 11	13 46.87	- 8 52.6	1.570	2.532	8.8	20.1	5 11	13 47.23	- 6 50.2	2.158	3.111	7.4	20.9
5 21	13 40.28	- 8 31.0	1.615	2.520	12.9	20.3	5 21	13 40.33	- 6 29.8	2.209	3.095	10.7	21.1
5 31	13 36.03	- 8 22.9	1.681	2.508	16.4	20.5	5 31	13 35.24	- 6 20.9	2.282	3.079	13.6	21.2
<b>420066</b>	2011 <i>EW</i> <sub>17</sub>		4 22.8 34°22	0.8/23.4	15		<b>86222</b>	1999 <i>TJ</i> <sub>85</sub>		4 22.8 273°17	0.5/22.3	17	
3 22	14 24.02	-16 44.6	1.392	2.265	15.6	20.5	3 22	14 22.32	-12 47.8	2.444	3.303	10.2	20.3
4 1	14 19.33	-16 15.4	1.339	2.277	11.3	20.3	4 1	14 17.49	-12 16.9	2.355	3.289	7.3	20.1
4 11	14 12.36	-15 31.1	1.308	2.291	6.5	20.1	4 11	14 11.19	-11 38.5	2.291	3.274	4.1	19.8
4 21	14 4.12	-14 36.1	1.301	2.305	1.5	19.8	4 21	14 3.97	-10 55.4	2.255	3.260	0.7	19.6
5 1	13 55.84	-13 37.1	1.320	2.320	4.0	20.0	5 1	13 56.54	-10 11.6	2.249	3.245	3.2	19.7
5 11	13 48.74	-12 41.9	1.364	2.336	8.8	20.3	5 11	13 49.66	- 9 31.2	2.271	3.231	6.6	19.9
5 21	13 43.70	-11 57.0	1.431	2.352	13.1	20.6	5 21	13 43.93	- 8 58.1	2.318	3.216	9.8	20.1
5 31	13 41.23	-11 26.8	1.517	2.369	16.7	20.9	5 31	13 39.85	- 8 35.0	2.389	3.201	12.6	20.3
<b>209135</b>	2003 <i>SC</i> <sub>248</sub>		4 22.8 305°47	0.5/23.1	17		<b>519874</b>	2013 <i>NK</i> <sub>31</sub>		4 22.8 138°22	1.0/22.0	17	
3 22	14 27.04	-14 27.1	1.346	2.221	15.9	19.9	3 22	14 26.58	-10 46.5	1.934	2.799	12.2	21.1
4 1	14 21.97	-14 22.1	1.266	2.206	11.7	19.6	4 1	14 20.73	-10 27.3	1.866	2.803	8.7	20.9
4 11	14 14.15	-14 4.7	1.207	2.191	6.7	19.3	4 11	14 13.03	-10 1.7	1.822	2.806	4.8	20.7
4 21	14 4.44	-13 37.4	1.173	2.177	1.3	18.9	4 21	14 4.26	- 9 33.1	1.805	2.809	1.1	20.4
5 1	13 54.20	-13 5.0	1.163	2.163	4.5	19.1	5 1	13 55.35	- 9 5.7	1.817	2.812	3.9	20.6
5 11	13 44.93	-12 34.4	1.178	2.149	10.0	19.4	5 11	13 47.26	- 8 43.8	1.856	2.815	7.9	20.8
5 21	13 37.84	-12 12.0	1.215	2.136	15.0	19.6	5 21	13 40.77	- 8 30.9	1.919	2.818	11.5	21.1
5 31	13 33.75	-12 2.7	1.271	2.123	19.3	19.8	5 31	13 36.37	- 8 29.2	2.005	2.820	14.6	21.3
<b>284139</b>	2005 <i>WS</i> <sub>6</sub>		4 22.8 94°11	1.5/21.9	18		<b>513099</b>	2017 <i>WT</i> <sub>23</sub>		4 22.8 239°61	1.4/21.3	17	
3 22	14 29.55	-11 1.7	1.343	2.220	15.7	20.9	3 22	14 23.65	-11 34.3	2.297	3.158	10.7	22.0
4 1	14 23.35	-10 31.2	1.288	2.231	11.2	20.7	4 1	14 18.50	-10 28.8	2.207	3.144	7.6	21.8
4 11	14 14.64	- 9 51.5	1.256	2.242	6.2	20.4	4 11	14 11.77	- 9 14.3	2.145	3.129	4.2	21.5
4 21	14 4.48	- 9 7.9	1.249	2.253	1.5	20.1	4 21	14 4.07	- 7 55.2	2.110	3.113	1.4	21.3
5 1	13 54.27	- 8 27.0	1.267	2.263	5.2	20.4	5 1	13 56.16	- 6 37.2	2.106	3.097	4.0	21.4
5 11	13 45.36	- 7 55.4	1.311	2.274	10.1	20.7	5 11	13 48.85	- 5 26.3	2.130	3.081	7.6	21.6
5 21	13 38.73	- 7 37.8	1.377	2.284	14.6	21.0	5 21	13 42.80	- 4 27.2	2.180	3.064	10.9	21.8
5 31	13 34.93	- 7 36.4	1.462	2.294	18.2	21.3	5 31	13 38.51	- 3 43.2	2.252	3.046	13.8	22.0
<b>246433</b>	2007 <i>VA</i> <sub>90</sub>		4 22.8 254°57	4.0/19.9	17		<b>245080</b>	2004 <i>LN</i> <sub>4</sub>		4 22.8 265°72	2.4/25.4	18	
3 22	14 27.70	- 4 38.7	1.592	2.470	13.6	20.6	3 22	14 22.99	-22 42.7	2.455	3.281	11.3	20.0
4 1	14 21.95	- 3 50.5	1.516	2.459	9.9	20.3	4 1	14 18.06	-22 22.7	2.358	3.266	8.6	19.8
4 11	14 13.90	- 2 59.2	1.464	2.447	6.0	20.0	4 11	14 11.54	-21 48.7	2.285	3.251	5.6	19.6
4 21	14 4.39	- 2 10.8	1.438	2.434	4.1	19.9	4 21	14 4.04	-21 1.9	2.240	3.235	2.9	19.4
5 1	13 54.56	- 1 32.3	1.439	2.422	6.8	20.0	5 1	13 56.29	-20 5.5	2.223	3.219	3.2	19.4
5 11	13 45.62	- 1 9.3	1.465	2.409	11.0	20.2	5 11	13 49.11	-19 4.2	2.235	3.204	6.1	19.6
5 21	13 38.53	- 1 4.8	1.514	2.395	15.0	20.4	5 21	13 43.18	-18 3.4	2.273	3.187	9.3	19.7
5 31	13 33.96	- 1 19.7	1.581	2.382	18.4	20.6	5 31	13 38.99	-17 8.0	2.335	3.171	12.1	19.9
<b>423780</b>	2006 <i>EZ</i> <sub>43</sub>		4 22.8 339°88	3.0/24.8	17		<b>513443</b>	2008 <i>VQ</i> <sub>28</sub>		4 22.8 154°02	2.3/26.3	18	
3 22	14 27.10	-20 14.1	1.728	2.575	14.3	20.9	3 22	14 21.41	-24 53.0	4.196	4.994	7.5	23.0
4 1	14 21.50	-20 33.6	1.651	2.571	10.9	20.6	4 1	14 16.32	-24 55.5	4.114	5.001	5.8	22.9
4 11	14 13.65	-20 39.1	1.597	2.568	7.0	20.4	4 11	14 10.33	-24 49.4	4.058	5.009	4.0	22.8
4 21	14 4.36	-20 30.9	1.568	2.565	3.5	20.2	4 21	14 3.83	-24 35.5	4.031	5.016	2.6	22.7
5 1	13 54.74	-20 11.4	1.565	2.563	4.1	20.2	5 1	13 57.26	-24 14.9	4.034	5.022	2.5	22.7
5 11	13 46.01	-19 45.6	1.590	2.560	7.9	20.4	5 11	13 51.06	-23 49.8	4.067	5.029	3.9	22.8
5 21	13 39.10	-19 19.0	1.638	2.558	11.8	20.6	5 21	13 45.61	-23 22.5	4.128	5.035	5.7	22.9
5 31	13 34.67	-18 57.1	1.708	2.557	15.3	20.8	5 31	13 41.22	-22 55.5	4.216	5.040	7.3	23.1
<b>369281</b>	2009 <i>QF</i> <sub>51</sub>		4 22.8 143°65	4.0/25.7	17		<b>34317</b>	2000 <i>QH</i> <sub>191</sub>					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>275599</b>	1999 VC <sub>148</sub>		4 22.8 182°86	1.2/21.6	17		<b>124696</b>	2001 SC <sub>137</sub>		4 22.8 217°53	0°0/22.9	18	
3 22	14 25.36	- 9 59.1	2.492	3.350	10.1	21.8	3 22	14 16.46	-13 57.9	4.582	5.429	6.0	20.3
4 1	14 19.53	- 9 26.7	2.416	3.350	7.1	21.6	4 1	14 12.76	-13 36.1	4.499	5.426	4.3	20.1
4 11	14 12.26	- 8 49.2	2.367	3.351	3.9	21.4	4 11	14 8.36	-13 10.3	4.443	5.424	2.4	20.0
4 21	14 4.15	- 8 9.8	2.347	3.350	1.3	21.2	4 21	14 3.56	-12 41.8	4.417	5.421	0.4	19.8
5 1	13 55.93	- 7 32.2	2.357	3.349	3.6	21.3	5 1	13 58.70	-12 12.5	4.421	5.418	1.7	19.9
5 11	13 48.33	- 7 0.3	2.395	3.347	6.8	21.5	5 11	13 54.12	-11 44.3	4.455	5.416	3.6	20.1
5 21	13 41.96	- 6 37.0	2.460	3.345	9.8	21.7	5 21	13 50.13	-11 19.1	4.517	5.413	5.5	20.2
5 31	13 37.26	- 6 24.4	2.547	3.342	12.4	21.9	5 31	13 46.96	-10 58.4	4.604	5.410	7.1	20.3
<b>512341</b>	2016 LF <sub>56</sub>		4 22.8 214°84	0°6/22.1	17		<b>161685</b>	2006 GD <sub>52</sub>		4 22.8 326°05	7°1/15.9	17	
3 22	14 22.11	-13 20.5	2.558	3.414	9.9	22.0	3 22	14 20.77	+ 1 30.3	1.604	2.494	12.9	19.5
4 1	14 17.22	-12 28.7	2.476	3.409	7.1	21.9	4 1	14 16.90	+ 3 15.5	1.538	2.481	9.8	19.2
4 11	14 10.99	-11 28.6	2.420	3.403	3.9	21.6	4 11	14 11.06	+ 4 59.7	1.498	2.468	7.5	19.1
4 21	14 3.96	-10 23.7	2.393	3.397	0.7	21.4	4 21	14 4.01	+ 6 33.2	1.482	2.456	7.5	19.0
5 1	13 56.80	- 9 18.6	2.395	3.391	3.2	21.6	5 1	13 56.73	+ 7 46.9	1.492	2.444	9.9	19.2
5 11	13 50.21	- 8 18.1	2.427	3.384	6.5	21.8	5 11	13 50.27	+ 8 34.5	1.525	2.433	13.2	19.3
5 21	13 44.76	- 7 26.3	2.485	3.377	9.5	21.9	5 21	13 45.45	+ 8 53.7	1.578	2.422	16.4	19.5
5 31	13 40.87	- 6 46.0	2.566	3.370	12.1	22.1	5 31	13 42.84	+ 8 45.4	1.649	2.413	19.2	19.7
<b>308956</b>	2006 TA <sub>38</sub>		4 22.8 143°46	0°1/22.7	17		<b>325143</b>	2008 ET <sub>154</sub>		4 22.8 44°09	2°9/20.5	17	
3 22	14 26.31	-14 42.5	1.721	2.584	13.6	21.0	3 22	14 23.61	- 9 35.1	1.408	2.293	14.6	20.4
4 1	14 20.73	-14 5.9	1.653	2.588	9.8	20.8	4 1	14 18.97	- 8 19.6	1.356	2.303	10.3	20.1
4 11	14 13.11	-13 17.6	1.608	2.591	5.5	20.5	4 11	14 12.17	- 6 55.4	1.327	2.314	5.7	19.9
4 21	14 4.29	-12 21.5	1.590	2.595	0.8	20.2	4 21	14 4.17	- 5 30.7	1.324	2.325	2.9	19.7
5 1	13 55.34	-11 23.5	1.600	2.598	3.9	20.5	5 1	13 56.14	- 4 14.4	1.346	2.336	6.1	20.0
5 11	13 47.34	-10 30.1	1.637	2.601	8.3	20.7	5 11	13 49.25	- 3 14.1	1.394	2.348	10.5	20.2
5 21	13 41.10	- 9 46.9	1.697	2.604	12.3	21.0	5 21	13 44.31	- 2 34.5	1.463	2.360	14.5	20.5
5 31	13 37.19	- 9 17.7	1.779	2.607	15.6	21.2	5 31	13 41.83	- 2 17.0	1.552	2.372	17.8	20.8
<b>314039</b>	2004 YT <sub>36</sub>		4 22.8 201°09	4°8/19.0	16		<b>419582</b>	2010 RQ <sub>81</sub>		4 22.8 251°66	3°6/19.8	17	
3 22	14 27.63	- 2 24.0	1.744	2.619	12.8	21.3	3 22	14 25.99	- 6 27.4	1.675	2.553	13.1	21.5
4 1	14 21.61	- 1 21.1	1.677	2.617	9.3	21.0	4 1	14 20.66	- 5 19.9	1.597	2.540	9.4	21.3
4 11	14 13.61	- 0 17.4	1.635	2.613	6.0	20.8	4 11	14 13.18	- 4 6.2	1.543	2.527	5.6	21.0
4 21	14 4.38	+ 0 40.4	1.620	2.609	4.9	20.7	4 21	14 4.35	- 2 52.7	1.516	2.513	3.7	20.9
5 1	13 54.97	+ 1 25.7	1.632	2.605	7.3	20.9	5 1	13 55.22	- 1 47.4	1.516	2.499	6.5	21.0
5 11	13 46.47	+ 1 53.5	1.670	2.600	10.8	21.1	5 11	13 46.91	- 0 57.0	1.541	2.484	10.6	21.2
5 21	13 39.69	+ 2 1.4	1.730	2.594	14.3	21.3	5 21	13 40.33	- 0 25.8	1.590	2.469	14.5	21.4
5 31	13 35.20	+ 1 49.5	1.811	2.588	17.3	21.5	5 31	13 36.10	- 0 15.7	1.657	2.454	17.9	21.6
<b>478260</b>	2011 UA <sub>395</sub>		4 22.8 301°29	0°6/23.3	17		<b>286838</b>	2002 NJ <sub>50</sub>		4 22.8 245°74	1°7/21.5	17	
3 22	14 26.98	-14 6.7	2.225	3.076	11.4	20.9	3 22	14 27.67	-10 3.8	1.927	2.792	12.3	21.6
4 1	14 20.95	-14 20.1	2.144	3.072	8.3	20.7	4 1	14 21.73	- 9 25.0	1.837	2.774	8.8	21.3
4 11	14 13.18	-14 26.8	2.088	3.068	4.8	20.4	4 11	14 13.75	- 8 38.5	1.772	2.756	4.9	21.1
4 21	14 4.31	-14 27.9	2.059	3.063	1.1	20.2	4 21	14 4.46	- 7 48.3	1.734	2.737	1.7	20.8
5 1	13 55.21	-14 25.5	2.060	3.059	3.0	20.3	5 1	13 54.80	- 6 59.9	1.725	2.718	4.6	21.0
5 11	13 46.77	-14 22.7	2.090	3.055	6.7	20.5	5 11	13 45.83	- 6 18.9	1.744	2.697	8.8	21.2
5 21	13 39.71	-14 22.4	2.145	3.051	10.1	20.7	5 21	13 38.42	- 5 49.6	1.787	2.677	12.7	21.3
5 31	13 34.60	-14 27.6	2.224	3.047	13.0	20.9	5 31	13 33.19	- 5 35.2	1.851	2.655	16.0	21.5
<b>40458</b>	1999 RH <sub>43</sub>		4 22.8 278°46	2°6/24.4	18		<b>277791</b>	2006 EM <sub>12</sub>		4 22.8 198°22	4°1/18.4	17	
3 22	14 28.80	-19 11.9	1.546	2.398	15.4	19.1	3 22	14 23.30	- 3 5.2	2.177	3.051	10.7	21.3
4 1	14 23.10	-19 23.6	1.458	2.383	11.6	18.8	4 1	14 18.21	- 1 43.3	2.109	3.049	7.7	21.1
4 11	14 14.75	-19 20.4	1.393	2.368	7.3	18.5	4 11	14 11.60	- 0 19.5	2.068	3.046	5.0	20.9
4 21	14 4.60	-19 2.5	1.353	2.353	3.2	18.2	4 21	14 4.10	+ 1 0.0	2.055	3.043	4.3	20.9
5 1	13 53.90	-18 32.9	1.339	2.337	4.3	18.3	5 1	13 56.48	+ 2 8.9	2.071	3.040	6.4	21.0
5 11	13 44.05	-17 57.5	1.350	2.322	9.0	18.5	5 11	13 49.55	+ 3 2.2	2.114	3.036	9.3	21.2
5 21	13 36.22	-17 23.0	1.386	2.306	13.5	18.7	5 21	13 43.94	+ 3 37.3	2.181	3.032	12.2	21.3
5 31	13 31.23	-16 56.0	1.441	2.291	17.5	18.9	5 31	13 40.10	+ 3 53.2	2.268	3.028	14.7	21.5
<b>379835</b>	2011 PE <sub>3</sub>		4 22.8 299°28	3°8/16.3	18		<b>109353</b>	2001 QS <sub>153</sub>		4 22.8 240°79	2°2/20.5	18	
3 22	14 17.39	+ 6 33.9	4.167	5.027	6.3	20.1	3 22	14 22.30	- 8 27.1	2.207	3.078	10.7	20.7
4 1	14 13.44	+ 7 7.3	4.100	5.020	4.9	20.0	4 1	14 17.53	- 7 29.2	2.133	3.074	7.6	20.5
4 11	14 8.74	+ 7 36.6	4.060	5.012	4.0	19.9	4 11	14 11.24	- 6 25.7	2.085	3.069	4.3	20.3
4 21	14 3.61	+ 7 59.4	4.048	5.005	3.9	19.9	4 21	14 4.04	- 5 21.4	2.065	3.065	2.2	20.2
5 1	13 58.42	+ 8 13.6	4.065	4.998	4.9	20.0	5 1	13 56.72	- 4 21.6	2.073	3.061	4.6	20.3
5 11	13 53.55	+ 8 17.9	4.109	4.990	6.3	20.0	5 11	13 50.05	- 3 31.5	2.109	3.056	7.9	20.5
5 21	13 49.31	+ 8 11.6	4.178	4.983	7.7	20.1	5 21	13 44.66	- 2 54.5	2.170	3.051	11.1	20.7
5 31	13 45.98	+ 7 54.9	4.269	4.976	9.0	20.2	5 31	13 41.02	- 2 32.7	2.252	3.047	13.8	20.9
<b>100245</b>	1994 RT <sub>2</sub>		4 22.8 264°12	2°1/21.1	18		<b>299376</b>	2005 UG <sub>371</sub>		4 22.8 349°09	1°8/23.9	16	
3 22	14 25.75	- 9 55.0	1.751	2.623	12.9	20.5	3 22	14 23.93	-18 51.4	1.107	1.986	18.2	20.4
4 1	14 20.48	- 9 1.6	1.664	2.605	9.3	20.2	4 1	14 20.01	-18 24.0	1.041	1.981	13.5	20.1
4 11	14 13.09	- 7 59.1	1.602	2.587	5.2	19.9	4 11	14 13.14	-17 34.3	0.995	1.977	8.1	19.7
4 21	14 4.33	- 6 52.5	1.566	2.568	2.1	19.7	4 21	14 4.38	-16 25.9	0.971	1.974	2.6	19.4
5 1	13 55.20	- 5 48.6	1.558	2.549	5.2	19.8	5 1	13 55.27	-15 7.2	0.971	1.972	4.7	19.5
5 11	13 46.81	- 4 54.4	1.576	2.530	9.6	20.0	5 11	13 47.45	-13 49.3	0.993	1.970	10.5	19.8
5 21	13 40.08	- 4 15.0	1.618	2.510	13.6	20.2	5 21	13 42.13	-12 42.7	1.036	1.969	15.8	20.1
5 31	13 35.66	- 3 53.7	1.680	2.490	17.2	20.4	5 31	13 40.03	-11 54.9	1.097	1.969	20.3	20.4
<b>320950</b>	2008 HZ <sub>4</sub>		4 22.8 231°63	0°3/22.4	18		<b>69202</b>	2026 T- <sub>2</sub>		4 22.8 115°19	0°8/22.3	18	
3 22	14 17.03												

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>320237</b>	2007 JA <sub>27</sub>		4 22.8 185°58	0°6/22.1	18		<b>334812</b>	2003 SK <sub>302</sub>		4 22.9 172°38	0°9/23.9	17	
3 22	14 24.32	-13 18.4	2.424	3.278	10.4	21.3	3 22	14 24.05	-18 50.5	2.351	3.192	11.2	21.3
4 1	14 18.85	-12 27.9	2.346	3.278	7.5	21.1	4 1	14 18.73	-18 3.6	2.273	3.194	8.2	21.1
4 11	14 11.93	-11 28.9	2.295	3.277	4.1	20.9	4 11	14 11.89	-17 4.1	2.220	3.196	4.8	20.9
4 21	14 4.16	-10 25.2	2.272	3.276	0.8	20.6	4 21	14 4.18	-15 55.1	2.195	3.198	1.4	20.6
5 1	13 56.28	-9 21.2	2.279	3.275	3.3	20.8	5 1	13 56.38	-14 41.2	2.200	3.199	2.8	20.7
5 11	13 49.04	-8 22.3	2.315	3.272	6.7	21.0	5 11	13 49.28	-13 28.2	2.234	3.200	6.3	21.0
5 21	13 43.06	-7 32.4	2.378	3.269	9.9	21.2	5 21	13 43.49	-12 21.4	2.295	3.201	9.6	21.2
5 31	13 38.76	-6 54.5	2.464	3.266	12.5	21.4	5 31	13 39.47	-11 25.0	2.380	3.201	12.4	21.3
<b>374304</b>	2005 SZ <sub>152</sub>		4 22.8 134°25	1°7/21.1	16		<b>210158</b>	2006 SH <sub>205</sub>		4 22.9 73°36	0°4/22.5	17	
3 22	14 25.03	-10 50.4	2.060	2.925	11.6	21.5	3 22	14 23.26	-13 19.5	2.146	3.007	11.3	20.8
4 1	14 19.45	-9 42.6	1.999	2.937	8.2	21.3	4 1	14 18.24	-12 47.1	2.078	3.013	8.1	20.7
4 11	14 12.27	-8 27.3	1.963	2.948	4.5	21.1	4 11	14 11.64	-12 6.5	2.035	3.018	4.5	20.4
4 21	14 4.21	-7 9.8	1.956	2.959	1.7	20.9	4 21	14 4.14	-11 21.0	2.020	3.024	0.7	20.2
5 1	13 56.13	-5 56.3	1.978	2.969	4.4	21.1	5 1	13 56.56	-10 35.2	2.033	3.030	3.3	20.4
5 11	13 48.87	-4 52.6	2.028	2.978	8.0	21.4	5 11	13 49.70	-9 53.7	2.074	3.036	7.0	20.6
5 21	13 43.09	-4 2.9	2.103	2.987	11.3	21.6	5 21	13 44.22	-9 20.6	2.140	3.042	10.3	20.8
5 31	13 39.21	-3 29.5	2.200	2.996	14.0	21.8	5 31	13 40.57	-8 58.5	2.228	3.048	13.2	21.0
<b>105052</b>	2000 KD <sub>54</sub>		4 22.8 327°63	8°9/14.9	18		<b>84977</b>	2003 YN <sub>53</sub>		4 22.9 170°88	1°3/21.7	18	
3 22	14 22.10	+ 4 36.2	1.409	2.301	14.2	18.5	3 22	14 24.82	-10 15.8	2.201	3.064	11.0	20.1
4 1	14 18.06	+ 6 27.6	1.351	2.290	11.2	18.2	4 1	14 19.33	-9 44.1	2.129	3.066	7.8	19.9
4 11	14 11.80	+ 8 13.7	1.316	2.280	9.1	18.1	4 11	14 12.25	-9 6.7	2.083	3.067	4.3	19.7
4 21	14 4.16	+ 9 43.3	1.305	2.270	9.4	18.1	4 21	14 4.25	-8 27.1	2.065	3.069	1.3	19.5
5 1	13 56.30	+10 46.5	1.318	2.261	11.9	18.2	5 1	13 56.12	-7 49.4	2.076	3.070	3.8	19.7
5 11	13 49.41	+11 17.6	1.353	2.252	15.1	18.4	5 11	13 48.70	-7 18.0	2.115	3.070	7.4	19.9
5 21	13 44.39	+11 15.8	1.406	2.244	18.4	18.5	5 21	13 42.64	-6 56.1	2.179	3.071	10.6	20.1
5 31	13 41.86	+10 43.8	1.475	2.237	21.2	18.7	5 31	13 38.41	-6 45.8	2.265	3.071	13.4	20.3
<b>58273</b>	1993 TA <sub>31</sub>		4 22.9 103°77	2°1/21.0	18		<b>230097</b>	2000 YU <sub>13</sub>		4 22.9 138°99	4°8/27.6	17	
3 22	14 27.25	- 9 0.4	1.914	2.781	12.2	20.3	3 22	14 26.99	-29 19.5	2.199	2.995	13.4	20.9
4 1	14 21.04	- 8 10.0	1.864	2.803	8.6	20.1	4 1	14 21.05	-29 18.1	2.123	3.004	10.7	20.7
4 11	14 13.13	- 7 14.5	1.840	2.824	4.8	19.9	4 11	14 13.27	-28 57.5	2.070	3.012	7.9	20.5
4 21	14 4.35	- 6 18.9	1.843	2.845	2.1	19.7	4 21	14 4.41	-28 18.1	2.042	3.019	5.4	20.4
5 1	13 55.63	- 5 28.7	1.875	2.865	4.7	20.0	5 1	13 55.43	-27 22.4	2.043	3.027	5.0	20.4
5 11	13 47.88	- 4 48.9	1.935	2.885	8.3	20.2	5 11	13 47.30	-26 16.0	2.071	3.034	7.0	20.5
5 21	13 41.76	- 4 22.4	2.019	2.904	11.6	20.5	5 21	13 40.76	-25 5.5	2.125	3.040	9.7	20.7
5 31	13 37.70	- 4 10.9	2.124	2.922	14.4	20.7	5 31	13 36.34	-23 57.4	2.203	3.046	12.5	20.9
<b>323732</b>	2005 LC <sub>17</sub>		4 22.9 92°34	5°0/19.8	18		<b>352415</b>	2007 XX <sub>53</sub>		4 22.9 50°00	1°4/21.5	17	
3 22	14 30.18	- 0 40.8	1.565	2.442	13.9	20.4	3 22	14 23.06	-10 0.7	2.152	3.020	11.0	21.1
4 1	14 23.52	- 0 11.5	1.512	2.451	10.2	20.2	4 1	14 18.09	- 9 25.4	2.084	3.023	7.8	20.9
4 11	14 14.68	+ 0 14.5	1.482	2.460	6.6	20.0	4 11	14 11.57	- 8 44.4	2.042	3.026	4.3	20.6
4 21	14 4.61	+ 0 31.7	1.478	2.469	5.1	19.9	4 21	14 4.15	- 8 1.5	2.026	3.029	1.4	20.4
5 1	13 54.51	+ 0 35.2	1.501	2.478	7.4	20.1	5 1	13 56.62	- 7 21.2	2.040	3.033	3.9	20.6
5 11	13 45.54	+ 0 22.3	1.550	2.487	11.0	20.3	5 11	13 49.81	- 6 47.9	2.080	3.036	7.4	20.8
5 21	13 38.57	- 0 7.6	1.621	2.495	14.5	20.6	5 21	13 44.34	- 6 24.8	2.146	3.039	10.7	21.0
5 31	13 34.11	- 0 53.2	1.711	2.504	17.6	20.8	5 31	13 40.67	- 6 14.0	2.233	3.043	13.5	21.2
<b>423536</b>	2005 UM <sub>193</sub>		4 22.9 164°26	0°7/22.3	17		<b>433177</b>	2012 TR <sub>305</sub>		4 22.9 324°10	7°7/25.8	16	
3 22	14 26.16	-12 45.5	1.996	2.856	12.1	22.5	3 22	14 28.84	-25 29.5	1.365	2.204	17.8	20.3
4 1	14 20.41	-12 8.9	1.925	2.860	8.6	22.3	4 1	14 24.02	-26 55.8	1.264	2.171	14.5	20.0
4 11	14 12.89	-11 23.7	1.880	2.863	4.8	22.1	4 11	14 15.83	-28 8.2	1.183	2.138	11.0	19.7
4 21	14 4.33	-10 33.5	1.862	2.866	0.9	21.8	4 21	14 4.95	-29 0.6	1.125	2.106	8.2	19.4
5 1	13 55.66	- 9 43.4	1.872	2.868	3.7	22.0	5 1	13 52.72	-29 29.3	1.091	2.075	8.3	19.3
5 11	13 47.79	- 8 58.7	1.911	2.871	7.7	22.2	5 11	13 41.01	-29 35.4	1.080	2.045	11.5	19.4
5 21	13 41.47	- 8 23.7	1.974	2.872	11.3	22.5	5 21	13 31.54	-29 24.9	1.090	2.016	15.9	19.6
5 31	13 37.18	- 8 1.3	2.060	2.873	14.3	22.7	5 31	13 25.63	-29 7.1	1.119	1.988	20.1	19.7
<b>172087</b>	2002 CS <sub>170</sub>		4 22.9 336°92	1°2/22.2	17		<b>165360</b>	2000 WA <sub>77</sub>		4 22.9 235°77	0°2/23.0	17	
3 22	14 26.02	-11 6.6	1.199	2.087	16.5	19.3	3 22	14 29.76	-14 0.1	1.665	2.526	14.1	20.1
4 1	14 21.37	-10 53.0	1.130	2.078	11.9	19.0	4 1	14 23.50	-13 52.7	1.584	2.517	10.3	19.9
4 11	14 13.88	-10 29.8	1.082	2.069	6.6	18.7	4 11	14 14.88	-13 35.1	1.526	2.508	5.8	19.6
4 21	14 4.54	-10 1.3	1.058	2.062	1.4	18.3	4 21	14 4.71	-13 9.7	1.494	2.498	1.0	19.2
5 1	13 54.77	- 9 33.6	1.057	2.055	5.3	18.5	5 1	13 54.16	-12 40.6	1.490	2.488	4.0	19.4
5 11	13 46.15	- 9 13.8	1.080	2.049	10.9	18.8	5 11	13 44.48	-12 13.3	1.512	2.478	8.7	19.7
5 21	13 39.86	- 9 7.0	1.123	2.044	15.9	19.1	5 21	13 36.69	-11 52.8	1.559	2.467	13.1	19.9
5 31	13 36.68	- 9 16.4	1.185	2.040	20.2	19.3	5 31	13 31.48	-11 43.3	1.626	2.456	16.8	20.1
<b>32262</b>	2000 OA <sub>60</sub>		4 22.9 321°92	0°4/23.2	18 R		<b>337441</b>	2001 RA <sub>49</sub>		4 22.9 144°43	5°9/16.2	18	
3 22	14 23.81	-15 36.3	1.478	2.350	14.9	18.8	3 22	14 26.12	+10 18.6	2.968	3.814	9.0	21.2
4 1	14 19.42	-15 10.9	1.399	2.338	10.9	18.6	4 1	14 19.79	+10 58.2	2.920	3.826	7.2	21.1
4 11	14 12.65	-14 31.1	1.342	2.325	6.2	18.3	4 11	14 12.32	+11 29.5	2.900	3.837	6.1	21.0
4 21	14 4.33	-13 40.4	1.309	2.313	1.2	17.9	4 21	14 4.26	+11 48.9	2.907	3.848	6.0	21.0
5 1	13 55.64	-12 44.7	1.302	2.302	4.1	18.1	5 1	13 56.22	+11 53.6	2.943	3.859	7.2	21.1
5 11	13 47.85	-11 51.7	1.320	2.291	9.2	18.3	5 11	13 48.80	+11 42.7	3.006	3.868	8.8	21.2
5 21	13 41.98	-11 8.1	1.361	2.281	13.8	18.6	5 21	13 42.48	+11 16.5	3.092	3.877	10.6	21.4
5 31	13 38.73	-10 39.2	1.422	2.271	17.7	18.8	5 31	13 37.60	+10 36.5	3.200	3.886	12.2	21.5
<b>231547</b>	2008 SU <sub>245</sub>		4 22.9 157°00	2°9/20.2	17		<b>141247</b>	2001 XU <sub>263</sub>		4 22.9 198°19	4°7/17.1	18	
3 22	14 24.74	- 5 55.1	2										

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>315231</b>	2007 <i>RX</i> <sub>227</sub>		4 22.9 170°62	0°6/22.4	18		<b>83754</b>	2001 <i>TJ</i> <sub>139</sub>		4 22.9 131°00	0°9/22.1	18	
3 22	14 28.85	-12 41.8	1.908	2.766	12.7	21.6	3 22	14 25.83	-10 24.5	2.330	3.189	10.6	19.8
4 1	14 22.43	-12 12.0	1.837	2.770	9.1	21.3	4 1	14 19.97	-10 10.5	2.262	3.196	7.6	19.6
4 11	14 14.06	-11 33.4	1.791	2.773	5.0	21.1	4 11	14 12.60	-9 51.6	2.219	3.202	4.2	19.4
4 21	14 4.56	-10 49.5	1.772	2.776	0.9	20.8	4 21	14 4.36	-9 30.5	2.205	3.209	1.0	19.2
5 1	13 54.91	-10 5.3	1.782	2.778	3.8	21.0	5 1	13 56.02	-9 10.5	2.220	3.215	3.4	19.4
5 11	13 46.13	-9 26.0	1.820	2.780	8.0	21.3	5 11	13 48.38	-8 54.9	2.263	3.221	6.8	19.6
5 21	13 39.03	-8 56.0	1.883	2.780	11.7	21.5	5 21	13 42.05	-8 46.3	2.333	3.227	9.9	19.8
5 31	13 34.15	-8 38.3	1.967	2.780	14.9	21.7	5 31	13 37.50	-8 46.8	2.425	3.232	12.6	20.0
<b>360178</b>	2013 <i>CQ</i> <sub>130</sub>		4 22.9 358°55	0°4/22.6	17		<b>225785</b>	2001 <i>TP</i> <sub>200</sub>		4 22.9 133°08	4°0/19.1	18	
3 22	14 23.26	-13 43.0	1.026	1.921	18.0	20.1	3 22	14 26.34	-2 43.3	2.102	2.972	11.1	21.3
4 1	14 19.61	-13 18.6	0.967	1.917	13.0	19.8	4 1	14 20.34	-1 40.8	2.048	2.986	8.0	21.1
4 11	14 12.96	-12 38.8	0.927	1.915	7.3	19.5	4 11	14 12.78	-0 38.3	2.021	2.999	5.1	20.9
4 21	14 4.41	-11 49.0	0.909	1.914	1.1	19.1	4 21	14 4.39	+0 18.6	2.022	3.012	4.1	20.9
5 1	13 55.54	-10 57.4	0.914	1.914	5.3	19.3	5 1	13 55.99	+1 4.8	2.052	3.024	6.1	21.0
5 11	13 48.01	-10 13.5	0.940	1.915	11.3	19.7	5 11	13 48.43	+1 36.3	2.108	3.035	9.1	21.2
5 21	13 43.03	-9 44.8	0.986	1.917	16.6	20.0	5 21	13 42.32	+1 51.3	2.189	3.046	12.0	21.4
5 31	13 41.31	-9 35.4	1.049	1.921	21.0	20.3	5 31	13 38.09	+1 49.5	2.291	3.056	14.4	21.6
<b>375269</b>	2008 <i>HY</i> <sub>11</sub>		4 22.9 294°63	3°1/20.1	17		<b>308024</b>	2004 <i>RU</i> <sub>255</sub>		4 22.9 193°52	2°6/21.9	18	
3 22	14 22.68	-9 29.2	1.599	2.481	13.4	21.0	3 22	14 41.97	-4 47.0	1.316	2.180	16.8	20.3
4 1	14 18.39	-8 1.0	1.520	2.466	9.5	20.7	4 1	14 32.79	-5 18.9	1.244	2.180	12.3	20.0
4 11	14 11.99	-6 21.5	1.466	2.452	5.4	20.4	4 11	14 20.30	-5 53.1	1.196	2.178	7.0	19.7
4 21	14 4.26	-4 38.2	1.437	2.437	3.1	20.2	4 21	14 5.65	-6 31.6	1.174	2.176	2.7	19.4
5 1	13 56.25	-3 0.5	1.436	2.423	6.2	20.4	5 1	13 50.53	-7 16.0	1.180	2.173	6.0	19.6
5 11	13 49.06	-1 37.6	1.461	2.409	10.6	20.6	5 11	13 36.78	-8 7.7	1.213	2.170	11.4	19.9
5 21	13 43.58	-0 35.7	1.508	2.395	14.7	20.8	5 21	13 25.75	-9 6.9	1.270	2.166	16.3	20.2
5 31	13 40.44	+0 2.2	1.574	2.381	18.2	21.0	5 31	13 18.26	-10 14.0	1.347	2.162	20.3	20.4
<b>165437</b>	2000 <i>YM</i> <sub>86</sub>		4 22.9 135°81	0°3/22.6	18		<b>415997</b>	2002 <i>AJ</i> <sub>105</sub>		4 22.9 78°71	4°3/26.5	18	
3 22	14 28.89	-14 12.0	1.924	2.778	12.7	20.9	3 22	14 28.33	-25 47.8	1.772	2.595	15.1	21.2
4 1	14 22.33	-13 32.0	1.862	2.793	9.1	20.7	4 1	14 22.19	-25 47.2	1.715	2.616	11.7	21.1
4 11	14 13.95	-12 41.8	1.826	2.808	5.0	20.5	4 11	14 13.96	-25 26.7	1.680	2.637	8.0	20.9
4 21	14 4.55	-11 45.6	1.817	2.821	0.8	20.2	4 21	14 4.58	-24 47.6	1.670	2.658	4.9	20.8
5 1	13 55.14	-10 48.5	1.837	2.834	3.6	20.4	5 1	13 55.20	-23 53.8	1.687	2.679	4.7	20.8
5 11	13 46.69	-9 56.6	1.885	2.846	7.7	20.7	5 11	13 46.93	-22 52.0	1.731	2.700	7.6	21.0
5 21	13 39.93	-9 14.5	1.959	2.858	11.3	20.9	5 21	13 40.59	-21 49.5	1.800	2.721	10.9	21.2
5 31	13 35.34	-8 45.3	2.055	2.868	14.3	21.2	5 31	13 36.67	-20 53.1	1.892	2.741	14.0	21.5
<b>103007</b>	1999 <i>XD</i> <sub>100</sub>		4 22.9 127°54	4°2/19.1	18		<b>406365</b>	2007 <i>RU</i> <sub>212</sub>		4 22.9 208°17	1°0/23.7	16	
3 22	14 26.15	-0 43.3	2.203	3.072	10.8	20.1	3 22	14 28.15	-17 56.7	1.851	2.699	13.4	22.1
4 1	14 20.16	-0 0.8	2.148	3.083	7.8	20.0	4 1	14 22.14	-17 22.8	1.768	2.694	9.9	21.8
4 11	14 12.67	+0 39.7	2.119	3.094	5.2	19.8	4 11	14 14.03	-16 34.2	1.710	2.688	5.8	21.6
4 21	14 4.35	+1 13.6	2.117	3.104	4.3	19.8	4 21	14 4.62	-15 33.8	1.678	2.681	1.6	21.3
5 1	13 56.01	+1 36.8	2.144	3.114	6.1	19.9	5 1	13 54.96	-14 26.9	1.674	2.673	3.5	21.4
5 11	13 48.45	+1 46.4	2.199	3.124	8.9	20.1	5 11	13 46.14	-13 20.2	1.698	2.665	7.9	21.6
5 21	13 42.27	+1 41.3	2.277	3.133	11.6	20.3	5 21	13 39.03	-12 20.5	1.748	2.656	11.9	21.9
5 31	13 37.92	+1 21.7	2.377	3.142	14.0	20.5	5 31	13 34.25	-11 33.0	1.819	2.647	15.4	22.1
<b>355792</b>	2008 <i>SN</i> <sub>88</sub>		4 22.9 246°00	0°9/23.4	17		<b>390618</b>	2001 <i>WU</i> <sub>2</sub>		4 22.9 74°23	1°1/24.1	17	
3 22	14 31.08	-15 20.2	1.517	2.377	15.2	21.3	3 22	14 23.11	-19 48.4	2.160	3.003	12.0	20.7
4 1	14 24.75	-15 19.0	1.433	2.365	11.2	21.0	4 1	14 18.06	-18 50.9	2.101	3.023	8.8	20.5
4 11	14 15.72	-15 5.6	1.371	2.352	6.5	20.7	4 11	14 11.52	-17 39.6	2.067	3.043	5.2	20.3
4 21	14 4.89	-14 41.8	1.335	2.339	1.6	20.4	4 21	14 4.20	-16 18.7	2.060	3.063	1.6	20.1
5 1	13 53.53	-14 11.7	1.326	2.325	4.2	20.5	5 1	13 56.91	-14 53.9	2.083	3.082	2.9	20.2
5 11	13 43.09	-13 41.3	1.343	2.311	9.4	20.8	5 11	13 50.45	-13 31.6	2.134	3.102	6.4	20.5
5 21	13 34.74	-13 16.7	1.383	2.296	14.1	21.0	5 21	13 45.41	-12 17.4	2.212	3.121	9.7	20.7
5 31	13 29.27	-13 3.0	1.444	2.281	18.1	21.2	5 31	13 42.19	-11 15.7	2.313	3.141	12.5	20.9
<b>48832</b>	1997 <i>YR</i> <sub>3</sub>		4 22.9 86°34	4°5/28.1	18		<b>15905</b>	Berthier		4 22.9 245°16	1°2/23.7	18	
3 22	14 25.51	-30 24.5	2.241	3.032	13.3	17.8	3 22	14 28.74	-16 29.3	1.976	2.823	12.7	18.8
4 1	14 19.83	-29 56.5	2.176	3.054	10.6	17.7	4 1	14 22.57	-16 28.6	1.885	2.810	9.4	18.5
4 11	14 12.51	-29 8.4	2.135	3.076	7.7	17.5	4 11	14 14.32	-16 17.2	1.818	2.796	5.6	18.3
4 21	14 4.32	-28 1.5	2.120	3.098	5.2	17.4	4 21	14 4.69	-15 56.6	1.779	2.781	1.7	18.0
5 1	13 56.18	-26 39.9	2.133	3.119	4.6	17.4	5 1	13 54.68	-15 29.9	1.767	2.766	3.4	18.1
5 11	13 48.97	-25 10.3	2.175	3.140	6.5	17.6	5 11	13 45.35	-15 1.5	1.784	2.751	7.6	18.3
5 21	13 43.32	-23 39.7	2.243	3.161	9.2	17.8	5 21	13 37.61	-14 36.2	1.827	2.735	11.5	18.5
5 31	13 39.65	-22 14.7	2.336	3.181	11.8	18.0	5 31	13 32.11	-14 18.5	1.891	2.719	14.8	18.7
<b>293475</b>	2007 <i>ER</i> <sub>220</sub>		4 22.9 264°52	0°7/22.1	16	R	<b>456781</b>	2007 <i>TY</i> <sub>170</sub>		4 22.9 299°73	0°3/22.6	17	
3 22	14 20.65	-12 42.3	2.652	3.511	9.5	21.3	3 22	14 25.41	-14 22.2	1.329	2.207	15.8	21.1
4 1	14 16.20	-11 57.4	2.571	3.505	6.8	21.1	4 1	14 20.89	-13 47.2	1.247	2.189	11.6	20.8
4 11	14 10.48	-11 5.2	2.516	3.500	3.7	20.9	4 11	14 13.67	-12 56.7	1.186	2.171	6.5	20.5
4 21	14 4.02	-10 9.1	2.490	3.494	0.8	20.6	4 21	14 4.60	-11 54.9	1.149	2.154	1.0	20.0
5 1	13 57.43	-9 13.2	2.493	3.488	3.0	20.8	5 1	13 55.02	-10 49.2	1.138	2.137	4.8	20.2
5 11	13 51.37	-8 21.7	2.525	3.483	6.2	21.0	5 11	13 46.38	-9 48.6	1.150	2.120	10.4	20.5
5 21	13 46.37	-7 38.2	2.583	3.477	9.1	21.2	5 21	13 39.87	-9 1.1	1.185	2.103	15.5	20.7
5 31	13 42.84	-7 5.3	2.665	3.472	11.6	21.3	5 31	13 36.29	-8 32.0	1.237	2.087	19.9	21.0
<b>480625</b>	2015 <i>MA</i> <sub>130</sub>		4 22.9 313°79	8°0/29.2	17		<b>430420</b>	1998 <i>SD</i> <sub>48</sub>		4 22.9 296°18	2°3/24.3	16	

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>500820</b>	2013 <i>GX</i> <sub>101</sub>		4 22.9 329°97	3°9/20.9	17		<b>360202</b>	1997 <i>WK</i> <sub>27</sub>		4 22.9 291°32	0°3/23.1	17	R
3 22	14 25.94	-5 37.0	1.140	2.036	16.4	20.4	3 22	14 28.46	-14 4.3	1.374	2.246	15.8	20.9
4 1	14 21.50	-5 15.4	1.069	2.020	12.0	20.1	4 1	14 23.15	-13 58.8	1.287	2.226	11.6	20.6
4 11	14 14.10	-4 50.7	1.018	2.005	7.0	19.8	4 11	14 15.01	-13 41.4	1.223	2.206	6.7	20.3
4 21	14 4.68	-4 29.1	0.990	1.990	3.9	19.5	4 21	14 4.88	-13 14.3	1.182	2.187	1.2	19.8
5 1	13 54.72	-4 17.7	0.985	1.977	7.3	19.7	5 1	13 54.09	-12 42.3	1.167	2.167	4.6	20.0
5 11	13 45.85	-4 22.3	1.002	1.964	12.6	19.9	5 11	13 44.18	-12 12.2	1.177	2.147	10.1	20.3
5 21	13 39.36	-4 46.0	1.040	1.953	17.6	20.2	5 21	13 36.42	-11 50.4	1.209	2.127	15.2	20.5
5 31	13 36.09	-5 29.3	1.094	1.943	21.9	20.4	5 31	13 31.68	-11 41.9	1.260	2.108	19.6	20.7
<b>181308</b>	2006 <i>QB</i> <sub>30</sub>		4 22.9 182°06	2°5/19.7	18		<b>425259</b>	2009 <i>WY</i> <sub>85</sub>		4 22.9 77°81	3°6/26.1	17	
3 22	14 22.65	-4 13.2	3.176	4.038	8.0	21.9	3 22	14 27.33	-24 47.3	1.837	2.663	14.5	20.8
4 1	14 17.40	-3 28.4	3.104	4.039	5.7	21.7	4 1	14 21.40	-24 35.7	1.779	2.685	11.1	20.6
4 11	14 11.07	-2 42.7	3.060	4.039	3.5	21.6	4 11	14 13.52	-24 5.4	1.745	2.706	7.5	20.4
4 21	14 4.14	-1 59.1	3.046	4.039	2.5	21.5	4 21	14 4.57	-23 18.3	1.736	2.728	4.3	20.3
5 1	13 57.14	-1 20.9	3.061	4.038	4.0	21.6	5 1	13 55.64	-22 18.6	1.755	2.749	4.2	20.3
5 11	13 50.61	-0 51.0	3.106	4.036	6.4	21.8	5 11	13 47.77	-21 13.2	1.800	2.771	7.2	20.5
5 21	13 44.99	-0 31.1	3.177	4.034	8.6	21.9	5 21	13 41.72	-20 9.0	1.872	2.792	10.6	20.8
5 31	13 40.64	-0 22.3	3.272	4.032	10.6	22.1	5 31	13 37.96	-19 12.1	1.965	2.812	13.6	21.0
<b>75155</b>	1999 <i>VX</i> <sub>108</sub>		4 22.9 68°67	0°1/22.9	18		<b>125468</b>	2001 <i>WL</i> <sub>10</sub>		4 22.9 295°30	1°5/21.8	17	
3 22	14 28.12	-14 15.5	1.457	2.326	15.2	19.9	3 22	14 24.79	-11 27.5	1.604	2.479	13.7	20.2
4 1	14 22.27	-13 55.4	1.402	2.340	11.0	19.7	4 1	14 20.05	-10 45.7	1.518	2.460	9.9	19.9
4 11	14 14.11	-13 23.6	1.370	2.354	6.1	19.4	4 11	14 13.05	-9 53.2	1.455	2.440	5.5	19.6
4 21	14 4.64	-12 44.1	1.363	2.368	1.0	19.1	4 21	14 4.54	-8 54.8	1.417	2.421	1.5	19.3
5 1	13 55.13	-12 2.6	1.383	2.382	4.1	19.4	5 1	13 55.61	-7 56.9	1.406	2.401	4.9	19.5
5 11	13 46.81	-11 25.7	1.428	2.396	8.9	19.7	5 11	13 47.46	-7 6.8	1.421	2.382	9.6	19.7
5 21	13 40.59	-10 58.5	1.496	2.410	13.2	20.0	5 21	13 41.06	-6 30.2	1.458	2.363	14.0	19.9
5 31	13 37.00	-10 44.6	1.585	2.424	16.7	20.2	5 31	13 37.13	-6 11.1	1.516	2.344	17.8	20.1
<b>56429</b>	2000 <i>GY</i> <sub>27</sub>		4 22.9 59°58	0°2/22.8	18		<b>318491</b>	2005 <i>EF</i> <sub>120</sub>		4 22.9 143°81	0°1/22.8	18	
3 22	14 28.78	-13 49.8	1.228	2.106	16.8	19.4	3 22	14 27.91	-15 14.2	1.830	2.686	13.2	21.6
4 1	14 23.11	-13 29.4	1.174	2.116	12.2	19.1	4 1	14 21.80	-14 29.4	1.764	2.696	9.5	21.4
4 11	14 14.73	-12 56.0	1.140	2.125	6.8	18.8	4 11	14 13.76	-13 32.7	1.724	2.705	5.3	21.2
4 21	14 4.76	-12 14.3	1.131	2.135	1.1	18.5	4 21	14 4.62	-12 28.3	1.710	2.714	0.8	20.9
5 1	13 54.68	-11 30.7	1.146	2.145	4.7	18.8	5 1	13 55.42	-11 22.2	1.725	2.723	3.7	21.1
5 11	13 45.96	-10 53.1	1.186	2.156	10.1	19.1	5 11	13 47.18	-10 20.9	1.767	2.730	7.9	21.4
5 21	13 39.67	-10 27.4	1.248	2.166	14.8	19.4	5 21	13 40.67	-9 30.0	1.835	2.737	11.7	21.6
5 31	13 36.38	-10 17.4	1.328	2.177	18.8	19.7	5 31	13 36.40	-8 53.2	1.924	2.744	14.9	21.8
<b>297407</b>	2000 <i>RZ</i> <sub>21</sub>		4 22.9 249°11	0°1/22.8	18		<b>419934</b>	2011 <i>BE</i> <sub>55</sub>		4 22.9 100°76	1°6/21.6	17	
3 22	14 22.62	-14 47.0	2.507	3.359	10.2	20.8	3 22	14 27.74	-9 45.5	1.840	2.707	12.6	21.5
4 1	14 17.75	-14 5.3	2.416	3.346	7.4	20.6	4 1	14 21.56	-9 10.9	1.787	2.725	9.0	21.3
4 11	14 11.43	-13 14.1	2.351	3.333	4.1	20.3	4 11	14 13.56	-8 30.5	1.757	2.742	4.9	21.1
4 21	14 4.23	-12 16.7	2.315	3.319	0.6	20.0	4 21	14 4.59	-7 48.7	1.756	2.759	1.7	20.9
5 1	13 56.84	-11 17.1	2.308	3.306	2.9	20.2	5 1	13 55.62	-7 10.6	1.782	2.775	4.4	21.2
5 11	13 49.99	-10 20.1	2.330	3.291	6.4	20.4	5 11	13 47.63	-6 40.8	1.836	2.791	8.3	21.4
5 21	13 44.29	-9 30.1	2.378	3.277	9.6	20.6	5 21	13 41.34	-6 22.5	1.914	2.807	11.8	21.7
5 31	13 40.20	-8 50.5	2.450	3.262	12.3	20.7	5 31	13 37.19	-6 17.7	2.013	2.822	14.7	21.9
<b>453387</b>	2009 <i>CM</i> <sub>2</sub>		4 22.9 67°88	1°5/21.9	18		<b>500933</b>	2013 <i>PA</i> <sub>54</sub>		4 22.9 230°55	1°5/24.1	17	
3 22	14 29.71	-10 41.6	1.301	2.180	16.0	21.1	3 22	14 27.68	-18 9.4	1.974	2.819	12.9	22.0
4 1	14 23.49	-10 14.5	1.255	2.198	11.4	20.9	4 1	14 21.79	-17 57.9	1.886	2.809	9.6	21.8
4 11	14 14.80	-9 39.2	1.231	2.217	6.2	20.7	4 11	14 13.88	-17 33.8	1.823	2.799	5.8	21.5
4 21	14 4.77	-9 0.7	1.232	2.236	1.6	20.4	4 21	14 4.67	-16 58.6	1.787	2.789	2.0	21.2
5 1	13 54.79	-8 25.7	1.258	2.254	5.1	20.7	5 1	13 55.16	-16 16.1	1.779	2.778	3.4	21.3
5 11	13 46.20	-8 0.2	1.310	2.273	10.1	21.0	5 11	13 46.38	-15 31.5	1.799	2.767	7.4	21.5
5 21	13 39.92	-7 48.3	1.383	2.292	14.4	21.3	5 21	13 39.20	-14 50.4	1.845	2.756	11.2	21.7
5 31	13 36.47	-7 52.0	1.476	2.311	17.9	21.6	5 31	13 34.21	-14 17.7	1.912	2.744	14.6	21.9
<b>351015</b>	2003 <i>QS</i> <sub>71</sub>		4 22.9 289°37	5°7/27.6	17		<b>27004</b>	<i>Violetaparra</i>		4 22.9 313°13	4°9/27.1	18	
3 22	14 26.79	-29 49.0	1.972	2.772	14.6	20.4	3 22	14 25.38	-27 34.0	2.069	2.880	13.6	18.4
4 1	14 21.55	-29 55.0	1.858	2.740	11.9	20.2	4 1	14 20.19	-27 51.8	1.982	2.873	10.9	18.2
4 11	14 13.95	-29 39.4	1.765	2.707	9.0	19.9	4 11	14 13.01	-27 51.9	1.918	2.866	8.0	18.0
4 21	14 4.69	-29 0.6	1.697	2.674	6.4	19.7	4 21	14 4.54	-27 33.7	1.879	2.859	5.5	17.8
5 1	13 54.80	-27 59.6	1.656	2.640	5.9	19.6	5 1	13 55.76	-26 59.1	1.867	2.852	5.2	17.8
5 11	13 45.50	-26 41.5	1.641	2.606	8.3	19.6	5 11	13 47.70	-26 12.4	1.881	2.846	7.4	17.9
5 21	13 37.85	-25 14.2	1.652	2.571	11.8	19.8	5 21	13 41.22	-25 20.0	1.921	2.840	10.4	18.0
5 31	13 32.67	-23 47.0	1.685	2.537	15.3	19.9	5 31	13 36.93	-24 28.1	1.983	2.834	13.4	18.2
<b>250397</b>	2003 <i>UZ</i> <sub>181</sub>		4 22.9 218°17	1°5/24.1	17		<b>321165</b>	2008 <i>VW</i> <sub>19</sub>		4 22.9 264°53	0°9/22.1	17	
3 22	14 27.31	-19 16.3	1.807	2.654	13.8	20.9	3 22	14 24.14	-12 33.5	1.977	2.841	12.0	21.3
4 1	14 21.62	-18 44.4	1.724	2.648	10.3	20.7	4 1	14 19.15	-11 52.3	1.895	2.832	8.6	21.0
4 11	14 13.79	-17 56.5	1.664	2.641	6.2	20.4	4 11	14 12.35	-11 1.8	1.838	2.822	4.8	20.8
4 21	14 4.64	-16 55.1	1.631	2.633	2.1	20.1	4 21	14 4.43	-10 5.9	1.808	2.813	1.0	20.5
5 1	13 55.21	-15 45.5	1.626	2.625	3.5	20.2	5 1	13 56.28	-9 9.9	1.807	2.803	3.9	20.7
5 11	13 46.64	-14 34.7	1.648	2.617	7.9	20.4	5 11	13 48.83	-8 19.5	1.832	2.793	7.9	20.9
5 21	13 39.80	-13 30.0	1.695	2.608	11.9	20.6	5 21	13 42.85	-7 39.4	1.883	2.783	11.6	21.1
5 31	13 35.32	-12 37.1	1.764	2.598	15.5	20.9	5 31	13 38.89	-7 13.1	1.955	2.773	14.8	21.3
<b>164506</b>	2006 <i>GO</i> <sub>45</sub>		4 22.9 288°29	0°9/21.9									

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4 22.9

4 22.9

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>310473</b>	2000 SA <sub>133</sub>		4 22.9 252°15	4.1/25.9	17		<b>438622</b>	2007 YN <sub>19</sub>		4 22.9 165°06	5.9/17.1	17	
3 22	14 29.54	-24 56.1	1.814	2.637	14.8	20.7	3 22	14 24.30	+ 5 5.7	2.251	3.120	10.6	21.0
4 1	14 23.52	-24 52.5	1.714	2.617	11.6	20.5	4 1	14 18.93	+ 5 58.1	2.193	3.121	8.2	20.8
4 11	14 15.05	-24 29.0	1.636	2.596	8.0	20.2	4 11	14 12.08	+ 6 44.5	2.161	3.121	6.3	20.7
4 21	14 4.90	-23 45.4	1.583	2.574	4.7	20.0	4 21	14 4.38	+ 7 19.8	2.156	3.122	6.1	20.7
5 1	13 54.19	-22 44.3	1.558	2.552	4.7	19.9	5 1	13 56.62	+ 7 39.6	2.177	3.122	7.7	20.8
5 11	13 44.23	-21 32.2	1.560	2.528	8.2	20.1	5 11	13 49.55	+ 7 41.6	2.225	3.123	10.1	21.0
5 21	13 36.09	-20 17.2	1.587	2.504	12.3	20.2	5 21	13 43.79	+ 7 25.5	2.295	3.123	12.5	21.1
5 31	13 30.54	-19 7.7	1.636	2.480	16.0	20.4	5 31	13 39.76	+ 6 52.4	2.386	3.123	14.6	21.3
<b>465992</b>	2011 ET <sub>11</sub>		4 22.9 263°85	8.4/14.8	18		<b>185693</b>	1997 HV <sub>3</sub>		4 22.9 254°11	0°3/23.4	18	
3 22	14 24.73	+ 8 23.4	1.872	2.743	12.3	20.4	3 22	14 16.31	-15 57.7	4.620	5.461	6.1	20.3
4 1	14 19.57	+ 9 51.1	1.811	2.732	10.0	20.2	4 1	14 12.74	-15 26.3	4.529	5.453	4.4	20.2
4 11	14 12.57	+11 10.4	1.774	2.722	8.5	20.1	4 11	14 8.47	-14 49.7	4.466	5.445	2.5	20.0
4 21	14 4.46	+12 13.3	1.763	2.711	8.7	20.1	4 21	14 3.80	-14 9.6	4.432	5.436	0.6	19.8
5 1	13 56.17	+12 53.4	1.777	2.700	10.6	20.2	5 1	13 59.06	-13 27.8	4.429	5.428	1.6	19.9
5 11	13 48.65	+13 7.0	1.814	2.689	13.1	20.3	5 11	13 54.60	-12 46.7	4.456	5.420	3.5	20.1
5 21	13 42.68	+12 54.2	1.873	2.678	15.7	20.5	5 21	13 50.72	-12 8.3	4.512	5.411	5.4	20.2
5 31	13 38.79	+12 17.2	1.948	2.667	18.1	20.6	5 31	13 47.65	-11 34.4	4.593	5.403	7.0	20.3
<b>502672</b>	2015 CC <sub>54</sub>		4 22.9 243°37	2°6/24.9	17		<b>148886</b>	2001 WC <sub>19</sub>		4 22.9 43°82	2°1/24.8	18	
3 22	14 26.62	-20 41.0	2.010	2.847	13.0	20.9	3 22	14 23.60	-22 32.3	1.586	2.435	15.3	19.5
4 1	14 20.99	-20 45.1	1.928	2.844	9.8	20.7	4 1	14 19.04	-21 30.6	1.518	2.440	11.4	19.2
4 11	14 13.41	-20 35.7	1.871	2.841	6.3	20.5	4 11	14 12.35	-20 6.8	1.472	2.446	7.1	19.0
4 21	14 4.61	-20 13.7	1.840	2.837	3.1	20.3	4 21	14 4.44	-18 25.3	1.452	2.453	2.8	18.8
5 1	13 55.55	-19 41.9	1.836	2.834	3.6	20.3	5 1	13 56.45	-16 34.2	1.459	2.459	3.7	18.8
5 11	13 47.24	-19 5.1	1.861	2.830	7.1	20.5	5 11	13 49.51	-14 43.9	1.493	2.466	8.1	19.1
5 21	13 40.51	-18 28.5	1.910	2.827	10.6	20.7	5 21	13 44.45	-13 3.7	1.551	2.472	12.3	19.4
5 31	13 35.94	-17 57.2	1.982	2.823	13.8	20.9	5 31	13 41.78	-11 40.6	1.631	2.480	15.9	19.6
<b>11161</b>	Daibosatsu		4 22.9 54°01	1°7/21.8	18		<b>325791</b>	2010 RX <sub>4</sub>		4 22.9 245°09	4°0/19.6	17	
3 22	14 27.82	-10 23.0	1.445	2.322	14.8	17.7	3 22	14 26.64	- 5 16.7	1.706	2.583	12.9	21.2
4 1	14 22.22	- 9 52.2	1.380	2.323	10.6	17.4	4 1	14 21.17	- 4 10.3	1.628	2.570	9.3	20.9
4 11	14 14.21	- 9 13.1	1.338	2.324	5.9	17.1	4 11	14 13.58	- 2 59.0	1.576	2.558	5.7	20.7
4 21	14 4.74	- 8 30.7	1.322	2.325	1.7	16.9	4 21	14 4.66	- 1 49.5	1.550	2.545	4.0	20.5
5 1	13 55.07	- 7 51.1	1.331	2.326	5.1	17.1	5 1	13 55.45	- 0 49.3	1.551	2.531	6.7	20.7
5 11	13 46.48	- 7 20.7	1.366	2.327	9.9	17.4	5 11	13 47.05	- 0 4.8	1.578	2.517	10.7	20.9
5 21	13 39.95	- 7 4.0	1.423	2.329	14.3	17.6	5 21	13 40.36	+ 0 20.2	1.628	2.503	14.5	21.1
5 31	13 36.09	- 7 3.4	1.499	2.330	17.9	17.8	5 31	13 35.99	+ 0 24.4	1.697	2.488	17.7	21.3
<b>231751</b>	1999 TA <sub>167</sub>		4 22.9 196°10	1°3/24.2	18		<b>229078</b>	2004 LY <sub>15</sub>		4 22.9 276°65	8°9/14.5	18	
3 22	14 24.57	-19 14.3	2.054	2.899	12.4	20.4	3 22	14 26.30	+ 9 29.9	1.831	2.699	12.7	19.7
4 1	14 19.39	-18 38.0	1.975	2.898	9.2	20.2	4 1	14 20.87	+10 53.8	1.759	2.677	10.4	19.5
4 11	14 12.45	-17 47.4	1.921	2.897	5.5	20.0	4 11	14 13.40	+12 9.0	1.710	2.654	9.0	19.4
4 21	14 4.45	-16 45.6	1.893	2.895	1.9	19.7	4 21	14 4.64	+13 7.1	1.687	2.632	9.3	19.4
5 1	13 56.30	-15 37.3	1.894	2.893	3.1	19.8	5 1	13 55.55	+13 41.0	1.688	2.609	11.2	19.4
5 11	13 48.90	-14 28.8	1.923	2.891	7.0	20.0	5 11	13 47.20	+13 47.0	1.713	2.585	13.9	19.5
5 21	13 43.00	-13 26.0	1.977	2.889	10.5	20.3	5 21	13 40.43	+13 24.9	1.758	2.562	16.7	19.7
5 31	13 39.10	-12 33.9	2.055	2.887	13.7	20.5	5 31	13 35.87	+12 37.0	1.820	2.538	19.2	19.8
<b>4942</b>	Munroe		4 22.9 298°77	3°2/24.9	18		<b>336433</b>	2008 UX <sub>252</sub>		4 22.9 216°46	0°3/22.6	17	
3 22	14 26.56	-21 2.3	1.277	2.138	17.4	16.6	3 22	14 25.32	-13 25.1	2.113	2.971	11.6	21.4
4 1	14 21.97	-20 57.4	1.194	2.123	13.3	16.3	4 1	14 19.88	-12 57.4	2.034	2.967	8.4	21.2
4 11	14 14.42	-20 30.9	1.131	2.107	8.5	16.0	4 11	14 12.73	-12 21.1	1.980	2.963	4.7	20.9
4 21	14 4.82	-19 43.7	1.092	2.091	3.9	15.7	4 21	14 4.53	-11 39.3	1.954	2.958	0.7	20.6
5 1	13 54.61	-18 40.5	1.076	2.076	4.8	15.7	5 1	13 56.14	-10 56.1	1.956	2.954	3.4	20.8
5 11	13 45.42	-17 30.4	1.085	2.061	10.0	15.9	5 11	13 48.45	-10 16.6	1.986	2.949	7.3	21.1
5 21	13 38.56	-16 23.5	1.115	2.046	15.1	16.1	5 21	13 42.17	- 9 44.8	2.042	2.944	10.8	21.3
5 31	13 34.92	-15 28.9	1.164	2.032	19.6	16.4	5 31	13 37.84	- 9 23.9	2.120	2.938	13.8	21.5
<b>68983</b>	2002 SB <sub>40</sub>		4 22.9 213°32	0°7/23.4	18		<b>53133</b>	1999 AQ <sub>34</sub>		4 22.9 77°80	6°6/17.3	18	
3 22	14 30.83	-14 40.8	1.932	2.782	12.9	20.0	3 22	14 25.32	+ 1 15.2	1.613	2.496	13.2	18.5
4 1	14 24.06	-14 45.9	1.849	2.776	9.4	19.8	4 1	14 19.99	+ 2 44.6	1.571	2.510	9.9	18.3
4 11	14 15.16	-14 42.2	1.790	2.770	5.5	19.5	4 11	14 12.76	+ 4 9.7	1.553	2.524	7.2	18.2
4 21	14 4.91	-14 31.1	1.759	2.763	1.3	19.2	4 21	14 4.52	+ 5 22.1	1.561	2.538	6.8	18.2
5 1	13 54.32	-14 15.4	1.757	2.756	3.5	19.4	5 1	13 56.31	+ 6 14.7	1.596	2.553	9.0	18.4
5 11	13 44.52	-13 59.4	1.783	2.748	7.7	19.6	5 11	13 49.15	+ 6 43.4	1.654	2.567	12.0	18.6
5 21	13 36.39	-13 47.1	1.834	2.739	11.6	19.8	5 21	13 43.77	+ 6 47.5	1.734	2.581	15.0	18.8
5 31	13 30.58	-13 42.2	1.907	2.730	14.9	20.0	5 31	13 40.61	+ 6 28.9	1.832	2.595	17.6	19.0
<b>199829</b>	2007 DL <sub>112</sub>		4 22.9 327°01	2°6/20.8	17		<b>225866</b>	2001 XM <sub>223</sub>		4 22.9 246°18	3°7/20.2	17	R
3 22	14 22.36	- 9 39.3	1.504	2.389	13.9	20.4	3 22	14 29.54	- 2 42.3	2.017	2.883	11.7	21.0
4 1	14 18.29	- 8 36.1	1.431	2.378	9.9	20.1	4 1	14 23.03	- 2 17.6	1.933	2.868	8.6	20.8
4 11	14 12.03	- 7 23.1	1.380	2.367	5.6	19.8	4 11	14 14.56	- 1 53.2	1.874	2.853	5.3	20.6
4 21	14 4.40	- 6 6.8	1.355	2.357	2.6	19.6	4 21	14 4.84	- 1 33.2	1.842	2.836	3.7	20.4
5 1	13 56.49	- 4 55.5	1.356	2.347	5.8	19.8	5 1	13 54.81	- 1 22.0	1.840	2.820	5.9	20.5
5 11	13 49.46	- 3 57.2	1.382	2.338	10.3	20.0	5 11	13 45.46	- 1 23.0	1.865	2.803	9.4	20.7
5 21	13 44.23	- 3 17.3	1.429	2.330	14.6	20.2	5 21	13 37.62	- 1 37.9	1.914	2.785	12.8	20.9
5 31	13 41.42	- 2 58.5	1.496	2.322	18.2	20.4	5 31	13 31.91	- 2 7.1	1.985	2.767	15.8	21.1
<b>129276</b>	2005 RJ <sub>8</sub>		4 22.9 130°90	2°7/25.3	17		<b>213765</b>	2003 BD <sub>25</sub>		4 22.9 358°46	13°0/5.0	18	
3 22	14 27.44	-21 31.9											

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>158713</b>	2003 <i>HC</i> <sub>5</sub>		4 22.9 265°19	0°6/22.3	18		<b>400755</b>	2009 <i>YF</i> <sub>16</sub>		4 22.9 215°60	0°3/22.8	18	
3 22	14 24.69	-14 28.0	2.101	2.958	11.7	20.5	3 22	14 31.03	-13 22.2	1.436	2.303	15.5	20.9
4 1	14 19.58	-13 26.5	2.001	2.934	8.5	20.2	4 1	14 24.74	-13 6.0	1.362	2.299	11.3	20.7
4 11	14 12.66	-12 12.2	1.927	2.910	4.7	19.9	4 11	14 15.78	-12 38.3	1.310	2.294	6.4	20.4
4 21	14 4.55	-10 49.0	1.881	2.885	0.8	19.6	4 21	14 5.10	-12 2.6	1.284	2.289	1.0	20.0
5 1	13 56.11	-9 23.1	1.864	2.860	3.8	19.8	5 1	13 54.06	-11 24.3	1.284	2.283	4.5	20.2
5 11	13 48.26	-8 1.4	1.875	2.834	7.9	20.0	5 11	13 44.09	-10 50.2	1.310	2.277	9.8	20.5
5 21	13 41.78	-6 50.3	1.912	2.808	11.7	20.2	5 21	13 36.30	-10 25.9	1.360	2.270	14.4	20.8
5 31	13 37.27	-5 54.3	1.972	2.781	15.0	20.3	5 31	13 31.41	-10 15.7	1.428	2.263	18.4	21.0
<b>332393</b>	2007 <i>HP</i> <sub>46</sub>		4 22.9 255°12	2°4/20.9	17		<b>109764</b>	2001 <i>RE</i> <sub>77</sub>		4 22.9 188°90	2°6/20.7	18	
3 22	14 27.95	-6 19.1	2.273	3.135	10.8	20.7	3 22	14 26.89	-6 46.8	2.042	2.910	11.5	19.6
4 1	14 21.79	-5 53.1	2.177	3.112	7.8	20.5	4 1	14 21.00	-6 6.7	1.971	2.909	8.2	19.4
4 11	14 13.85	-5 24.1	2.108	3.090	4.5	20.3	4 11	14 13.36	-5 23.1	1.926	2.908	4.7	19.1
4 21	14 4.75	-4 55.5	2.067	3.066	2.4	20.1	4 21	14 4.68	-4 40.3	1.908	2.907	2.6	19.0
5 1	13 55.30	-4 31.4	2.055	3.042	4.6	20.2	5 1	13 55.86	-4 3.2	1.918	2.905	4.9	19.1
5 11	13 46.39	-4 15.5	2.072	3.017	8.1	20.3	5 11	13 47.80	-3 36.1	1.956	2.903	8.5	19.4
5 21	13 38.79	-4 10.6	2.114	2.992	11.5	20.5	5 21	13 41.21	-3 21.9	2.019	2.900	11.8	19.6
5 31	13 33.06	-4 18.2	2.178	2.966	14.4	20.7	5 31	13 36.61	-3 22.0	2.103	2.897	14.7	19.7
<b>268478</b>	2005 <i>XV</i> <sub>59</sub>		4 22.9 140°35	2°9/20.6	17		<b>457679</b>	2009 <i>DM</i> <sub>81</sub>		4 22.9 61°17	2°6/21.3	18	
3 22	14 27.13	-5 41.0	1.909	2.780	12.1	20.7	3 22	14 28.03	-8 54.2	1.304	2.187	15.7	21.5
4 1	14 21.20	-5 6.6	1.846	2.785	8.6	20.4	4 1	14 22.35	-8 11.3	1.256	2.202	11.1	21.3
4 11	14 13.46	-4 29.9	1.807	2.790	5.0	20.2	4 11	14 14.25	-7 21.8	1.231	2.218	6.2	21.1
4 21	14 4.67	-3 55.5	1.796	2.795	2.9	20.1	4 21	14 4.82	-6 32.1	1.231	2.233	2.6	20.9
5 1	13 55.78	-3 28.1	1.813	2.799	5.3	20.3	5 1	13 55.41	-5 49.3	1.256	2.249	5.9	21.1
5 11	13 47.74	-3 11.8	1.857	2.803	8.9	20.5	5 11	13 47.32	-5 19.9	1.305	2.265	10.5	21.4
5 21	13 41.29	-3 8.7	1.925	2.807	12.3	20.7	5 21	13 41.45	-5 7.4	1.377	2.281	14.8	21.7
5 31	13 36.92	-3 20.0	2.013	2.810	15.1	20.9	5 31	13 38.31	-5 13.0	1.467	2.297	18.3	22.0
<b>424136</b>	2007 <i>FS</i> <sub>27</sub>		4 22.9 48°79	1°5/23.9	15		<b>253241</b>	2003 <i>AB</i> <sub>18</sub>		4 22.9 138°92	0°7/22.3	18	
3 22	14 26.51	-17 42.9	1.521	2.382	15.1	21.6	3 22	14 29.85	-11 14.6	2.098	2.953	11.8	20.1
4 1	14 21.16	-17 30.2	1.463	2.394	11.1	21.4	4 1	14 23.00	-11 0.2	2.034	2.965	8.4	19.9
4 11	14 13.57	-17 2.9	1.427	2.406	6.6	21.2	4 11	14 14.42	-10 39.8	1.995	2.978	4.7	19.7
4 21	14 4.69	-16 23.9	1.416	2.418	2.1	20.9	4 21	14 4.85	-10 16.0	1.985	2.989	0.9	19.4
5 1	13 55.72	-15 38.3	1.431	2.431	3.8	21.1	5 1	13 55.22	-9 52.6	2.004	3.000	3.6	19.6
5 11	13 47.86	-14 53.1	1.472	2.444	8.3	21.4	5 11	13 46.43	-9 33.5	2.051	3.010	7.3	19.9
5 21	13 41.99	-14 14.2	1.537	2.457	12.4	21.6	5 21	13 39.21	-9 21.7	2.125	3.019	10.7	20.1
5 31	13 38.66	-13 46.5	1.622	2.471	15.9	21.9	5 31	13 34.04	-9 19.6	2.221	3.028	13.6	20.3
<b>198098</b>	2004 <i>SL</i> <sub>40</sub>		4 22.9 111°59	2°6/20.3	18		<b>245038</b>	2004 <i>EL</i> <sub>76</sub>		4 22.9 45°70	3°5/19.6	17	
3 22	14 25.10	-7 17.3	2.141	3.009	11.1	20.2	3 22	14 22.53	-5 13.7	1.990	2.867	11.3	20.5
4 1	14 19.49	-6 15.4	2.087	3.026	7.8	20.1	4 1	14 17.86	-4 9.2	1.929	2.872	8.1	20.3
4 11	14 12.38	-5 10.0	2.060	3.043	4.5	19.9	4 11	14 11.58	-3 1.9	1.894	2.876	4.9	20.1
4 21	14 4.48	-4 6.0	2.062	3.060	2.6	19.8	4 21	14 4.39	-1 57.8	1.887	2.881	3.5	20.0
5 1	13 56.60	-3 8.9	2.092	3.076	4.9	20.0	5 1	13 57.13	-1 2.5	1.906	2.886	5.7	20.2
5 11	13 49.53	-2 23.3	2.149	3.092	8.1	20.2	5 11	13 50.62	-0 21.1	1.953	2.891	9.0	20.4
5 21	13 43.86	-1 52.0	2.232	3.107	11.1	20.4	5 21	13 45.53	+0 3.9	2.023	2.897	12.1	20.6
5 31	13 40.01	-1 36.2	2.336	3.122	13.6	20.6	5 31	13 42.29	+0 11.4	2.114	2.902	14.8	20.8
<b>429549</b>	2011 <i>CY</i> <sub>32</sub>		4 22.9 288°32	9°4/29.2	18		<b>343958</b>	2011 <i>KS</i> <sub>33</sub>		4 22.9 301°01	2°0/24.7	17	
3 22	14 30.46	-35 34.1	1.774	2.547	17.0	20.6	3 22	14 23.39	-20 53.2	1.838	2.685	13.6	20.4
4 1	14 24.63	-36 38.1	1.681	2.531	14.6	20.4	4 1	14 18.85	-20 20.0	1.752	2.674	10.2	20.2
4 11	14 15.92	-37 18.9	1.608	2.516	12.1	20.2	4 11	14 12.32	-19 29.4	1.689	2.663	6.4	20.0
4 21	14 5.14	-37 31.5	1.557	2.501	10.1	20.0	4 21	14 4.53	-18 23.9	1.652	2.652	2.6	19.7
5 1	13 53.62	-37 14.0	1.531	2.486	9.4	19.9	5 1	13 56.47	-17 8.7	1.642	2.642	3.5	19.7
5 11	13 42.90	-36 29.9	1.528	2.471	10.7	20.0	5 11	13 49.19	-15 51.0	1.660	2.632	7.5	19.9
5 21	13 34.30	-35 26.7	1.549	2.456	13.3	20.1	5 21	13 43.51	-14 38.1	1.702	2.622	11.5	20.2
5 31	13 28.75	-34 14.6	1.591	2.441	16.1	20.2	5 31	13 40.05	-13 36.3	1.766	2.612	15.0	20.4
<b>41322</b>	1999 <i>XK</i> <sub>212</sub>		4 22.9 196°91	2°6/20.5	18		<b>308370</b>	2005 <i>QQ</i> <sub>179</sub>		4 22.9 240°19	0°1/22.9	18	
3 22	14 25.07	-6 45.7	2.168	3.036	10.9	19.4	3 22	14 24.09	-14 3.2	2.729	3.577	9.6	22.0
4 1	14 19.61	-6 0.7	2.096	3.034	7.8	19.2	4 1	14 18.77	-13 43.2	2.636	3.564	6.9	21.8
4 11	14 12.55	-5 12.2	2.050	3.032	4.5	19.0	4 11	14 12.06	-13 16.1	2.569	3.550	3.9	21.6
4 21	14 4.54	-4 24.4	2.031	3.030	2.6	18.8	4 21	14 4.48	-12 44.0	2.531	3.535	0.7	21.3
5 1	13 56.38	-3 42.2	2.041	3.027	4.8	19.0	5 1	13 56.70	-12 9.8	2.523	3.521	2.7	21.4
5 11	13 48.92	-3 9.9	2.079	3.024	8.2	19.2	5 11	13 49.39	-11 37.2	2.544	3.505	5.9	21.6
5 21	13 42.81	-2 50.5	2.142	3.021	11.3	19.4	5 21	13 43.16	-11 9.3	2.591	3.490	8.9	21.8
5 31	13 38.55	-2 45.3	2.226	3.017	14.1	19.5	5 31	13 38.46	-10 48.9	2.663	3.474	11.5	21.9
<b>379017</b>	2008 <i>VJ</i> <sub>7</sub>		4 22.9 103°92	4°3/26.4	17		<b>202705</b>	2007 <i>GH</i> <sub>16</sub>		4 22.9 254°14	1°1/23.7	17	
3 22	14 30.48	-25 21.5	2.075	2.887	13.6	21.1	3 22	14 27.80	-18 14.5	1.543	2.401	15.2	20.9
4 1	14 23.66	-25 47.3	2.009	2.903	10.6	20.9	4 1	14 22.41	-17 35.4	1.455	2.385	11.3	20.6
4 11	14 14.87	-25 57.1	1.967	2.920	7.4	20.7	4 11	14 14.51	-16 37.8	1.390	2.369	6.7	20.3
4 21	14 4.92	-25 50.4	1.951	2.935	4.8	20.6	4 21	14 4.92	-15 24.7	1.349	2.353	1.8	19.9
5 1	13 54.84	-25 29.3	1.963	2.951	4.7	20.6	5 1	13 54.88	-14 2.7	1.336	2.336	4.0	20.0
5 11	13 45.67	-24 58.0	2.002	2.966	7.1	20.8	5 11	13 45.72	-12 40.8	1.349	2.318	9.2	20.3
5 21	13 38.23	-24 22.2	2.068	2.981	10.1	21.0	5 21	13 38.54	-11 27.7	1.385	2.300	13.9	20.5
5 31	13 33.05	-23 47.5	2.157	2.995	12.9	21.2	5 31	13 34.07	-10 30.3	1.442	2.282	18.0	20.7
<b>310131</b>	2011 <i>GO</i> <sub>62</sub>		4 22.9 84°87	0°2/23.0	17		<						

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>414460</b>	2009 <i>HL</i> <sub>37</sub>	4 22.9 288°65		1.7°/22.0 17			<b>106256</b>	2000 <i>UK</i> <sub>57</sub>	4 22.9 250°05		1.7°/24.8 18		
3 22	14 30.97	- 8 22.6	1.491	2.364	14.7	20.6	3 22	14 23.19	- 20 34.9	2.434	3.269	11.1	20.1
4 1	14 24.68	- 8 26.2	1.412	2.353	10.6	20.3	4 1	14 18.29	- 20 9.2	2.344	3.260	8.3	19.9
4 11	14 15.78	- 8 25.9	1.357	2.342	6.0	20.0	4 11	14 11.86	- 19 30.6	2.279	3.251	5.2	19.7
4 21	14 5.14	- 8 24.8	1.327	2.331	1.8	19.7	4 21	14 4.49	- 18 41.2	2.242	3.242	2.2	19.5
5 1	13 54.04	- 8 26.6	1.324	2.320	5.1	19.9	5 1	13 56.93	- 17 44.4	2.233	3.232	2.9	19.5
5 11	13 43.87	- 8 35.5	1.347	2.309	10.0	20.1	5 11	13 49.96	- 16 45.1	2.253	3.223	6.1	19.7
5 21	13 35.76	- 8 54.3	1.392	2.298	14.5	20.3	5 21	13 44.22	- 15 48.3	2.300	3.213	9.2	19.9
5 31	13 30.46	- 9 24.8	1.458	2.287	18.4	20.6	5 31	13 40.20	- 14 58.5	2.370	3.203	12.1	20.0
<b>161623</b>	2005 <i>WF</i> <sub>158</sub>	4 22.9 291°10		6°8/28.7 17			<b>333418</b>	2003 <i>FP</i> <sub>29</sub>	4 22.9 333°86		0°2/23.0 17		
3 22	14 26.61	- 32 1.2	1.824	2.619	15.8	20.0	3 22	14 20.32	- 15 47.8	1.256	2.141	16.1	19.9
4 1	14 21.42	- 32 16.6	1.739	2.613	13.0	19.8	4 1	14 17.37	- 15 9.3	1.175	2.120	11.8	19.6
4 11	14 13.88	- 32 8.3	1.674	2.606	10.1	19.5	4 11	14 11.83	- 14 12.5	1.114	2.100	6.8	19.3
4 21	14 4.83	- 31 34.7	1.632	2.600	7.5	19.4	4 21	14 4.53	- 13 1.7	1.077	2.082	1.2	18.8
5 1	13 55.42	- 30 37.5	1.616	2.594	6.8	19.3	5 1	13 56.73	- 11 44.9	1.064	2.064	4.6	19.0
5 11	13 46.90	- 29 22.7	1.626	2.588	8.6	19.4	5 11	13 49.86	- 10 32.3	1.074	2.048	10.3	19.3
5 21	13 40.28	- 27 58.8	1.660	2.582	11.6	19.6	5 21	13 45.07	- 9 32.8	1.105	2.033	15.4	19.5
5 31	13 36.24	- 26 35.0	1.717	2.576	14.7	19.8	5 31	13 43.14	- 8 53.0	1.154	2.020	19.9	19.7
<b>102795</b>	1999 <i>VA</i> <sub>163</sub>	4 22.9 224°05		0°7/23.6 17			<b>120655</b>	1996 <i>TZ</i> <sub>29</sub>	4 22.9 3°05		0°2/22.8 17		
3 22	14 28.09	- 17 0.0	2.037	2.883	12.5	20.7	3 22	14 23.64	- 14 12.0	1.388	2.267	15.2	19.3
4 1	14 22.07	- 16 30.0	1.947	2.872	9.2	20.5	4 1	14 19.36	- 13 44.8	1.323	2.266	11.0	19.1
4 11	14 14.08	- 15 47.4	1.881	2.859	5.4	20.2	4 11	14 12.73	- 13 4.8	1.280	2.265	6.2	18.8
4 21	14 4.86	- 14 54.7	1.843	2.847	1.3	19.9	4 21	14 4.65	- 12 16.4	1.262	2.266	1.0	18.4
5 1	13 55.33	- 13 56.3	1.834	2.833	3.3	20.0	5 1	13 56.35	- 11 26.0	1.268	2.268	4.3	18.7
5 11	13 46.51	- 12 58.2	1.853	2.819	7.4	20.2	5 11	13 49.09	- 10 41.1	1.299	2.270	9.3	19.0
5 21	13 39.23	- 12 6.1	1.899	2.804	11.3	20.4	5 21	13 43.84	- 10 7.5	1.353	2.273	13.8	19.2
5 31	13 34.08	- 11 24.7	1.966	2.788	14.6	20.6	5 31	13 41.20	- 9 49.4	1.426	2.277	17.6	19.5
<b>210137</b>	2006 <i>SK</i> <sub>8</sub>	4 22.9 261°51		3°9/18.9 18			<b>90553</b>	2004 <i>FQ</i> <sub>126</sub>	4 22.9 256°75		1°4/21.4 18		
3 22	14 22.97	- 2 39.6	2.291	3.164	10.2	20.3	3 22	14 22.43	- 11 2.2	2.283	3.148	10.6	19.7
4 1	14 18.12	- 1 39.1	2.213	3.151	7.5	20.1	4 1	14 17.75	- 10 5.7	2.201	3.139	7.5	19.4
4 11	14 11.76	- 0 37.3	2.160	3.138	4.8	19.9	4 11	14 11.56	- 9 1.5	2.145	3.129	4.2	19.2
4 21	14 4.47	+ 0 20.7	2.135	3.124	4.0	19.8	4 21	14 4.45	- 7 53.8	2.117	3.120	1.4	19.0
5 1	13 56.98	+ 1 9.6	2.139	3.110	5.9	19.9	5 1	13 57.17	- 6 47.9	2.118	3.110	3.9	19.2
5 11	13 50.08	+ 1 45.3	2.169	3.097	8.9	20.0	5 11	13 50.49	- 5 49.2	2.147	3.100	7.4	19.4
5 21	13 44.39	+ 2 5.1	2.224	3.082	11.8	20.2	5 21	13 45.05	- 5 1.8	2.201	3.090	10.6	19.5
5 31	13 40.40	+ 2 8.2	2.300	3.068	14.3	20.4	5 31	13 41.31	- 4 28.5	2.278	3.080	13.4	19.7
<b>70340</b>	1999 <i>RF</i> <sub>173</sub>	4 22.9 244°80		2°5/21.1 17			<b>276</b>	<i>Adelheid</i>	4 22.9 88°60		0°3/22.6 18		
3 22	14 28.69	- 7 42.1	1.704	2.576	13.2	20.2	3 22	14 22.06	- 16 17.1	2.252	3.105	11.2	13.6
4 1	14 22.73	- 7 9.0	1.625	2.565	9.5	19.9	4 1	14 17.40	- 14 58.5	2.181	3.112	8.0	13.4
4 11	14 14.55	- 6 30.7	1.569	2.553	5.4	19.7	4 11	14 11.30	- 13 27.9	2.136	3.118	4.4	13.2
4 21	14 4.94	- 5 51.6	1.539	2.541	2.5	19.4	4 21	14 4.40	- 11 50.2	2.120	3.125	0.7	12.9
5 1	13 55.00	- 5 17.6	1.538	2.528	5.4	19.6	5 1	13 57.45	- 10 11.8	2.134	3.131	3.2	13.1
5 11	13 45.87	- 4 53.8	1.562	2.515	9.7	19.8	5 11	13 51.22	- 8 39.3	2.177	3.138	6.8	13.4
5 21	13 38.51	- 4 43.9	1.611	2.502	13.7	20.0	5 21	13 46.28	- 7 18.4	2.247	3.144	10.1	13.6
5 31	13 33.57	- 4 49.9	1.679	2.488	17.2	20.2	5 31	13 43.05	- 6 12.8	2.339	3.151	12.9	13.8
<b>382751</b>	2003 <i>DC</i> <sub>21</sub>	4 22.9 140°10		13°8/29.9 18			<b>150069</b>	2006 <i>SW</i> <sub>55</sub>	4 22.9 167°57		5°1/16.9 18		
3 22	14 42.84	- 38 53.8	1.328	2.090	22.2	20.5	3 22	14 22.12	+ 1 48.3	2.420	3.292	9.8	20.0
4 1	14 34.68	- 41 0.5	1.263	2.097	19.5	20.3	4 1	14 17.35	+ 3 7.9	2.361	3.294	7.4	19.9
4 11	14 22.09	- 42 36.7	1.215	2.104	16.7	20.1	4 11	14 11.25	+ 4 25.0	2.329	3.296	5.5	19.8
4 21	14 6.27	- 43 31.4	1.188	2.110	14.5	20.0	4 21	14 4.40	+ 5 33.9	2.325	3.297	5.3	19.8
5 1	13 49.40	- 43 38.8	1.182	2.115	13.8	20.0	5 1	13 57.47	+ 6 29.5	2.349	3.298	7.0	19.9
5 11	13 34.09	- 43 3.1	1.199	2.120	14.9	20.1	5 11	13 51.15	+ 7 8.1	2.399	3.299	9.3	20.0
5 21	13 22.37	- 41 56.7	1.236	2.125	17.1	20.2	5 21	13 46.00	+ 7 28.5	2.473	3.300	11.7	20.2
5 31	13 15.33	- 40 35.4	1.291	2.129	19.8	20.4	5 31	13 42.41	+ 7 30.5	2.567	3.301	13.8	20.3
<b>45932</b>	2000 <i>YT</i> <sub>121</sub>	4 22.9 105°52		7°7/16.1 18			<b>467796</b>	2009 <i>YX</i> <sub>16</sub>	4 22.9 224°48		3°5/19.8 18		
3 22	14 26.30	+ 7 29.6	1.902	2.771	12.2	18.0	3 22	14 27.36	- 3 6.2	2.290	3.155	10.6	22.1
4 1	14 20.51	+ 8 44.9	1.861	2.784	9.7	17.9	4 1	14 21.28	- 2 25.4	2.208	3.143	7.7	21.9
4 11	14 13.04	+ 9 50.7	1.844	2.796	7.9	17.8	4 11	14 13.54	- 1 43.8	2.153	3.131	4.8	21.7
4 21	14 4.66	+ 10 40.2	1.854	2.808	7.9	17.8	4 21	14 4.79	- 1 5.7	2.126	3.118	3.5	21.5
5 1	13 56.32	+ 11 8.2	1.889	2.820	9.6	18.0	5 1	13 55.82	- 0 35.5	2.128	3.105	5.5	21.6
5 11	13 48.89	+ 11 12.6	1.948	2.831	12.0	18.1	5 11	13 47.46	- 0 17.0	2.158	3.091	8.6	21.8
5 21	13 43.06	+ 10 54.0	2.030	2.843	14.4	18.3	5 21	13 40.41	- 0 12.3	2.213	3.076	11.6	22.0
5 31	13 39.24	+ 10 15.0	2.129	2.854	16.5	18.5	5 31	13 35.19	- 0 22.1	2.290	3.061	14.3	22.1
<b>147089</b>	2002 <i>SX</i> <sub>52</sub>	4 22.9 267°01		5°1/18.9 18			<b>89104</b>	2001 <i>TT</i> <sub>202</sub>	4 22.9 120°78		4°3/18.9 18		
3 22	14 28.34	- 1 6.1	1.760	2.634	12.7	20.4	3 22	14 25.02	+ 0 15.0	2.330	3.198	10.3	19.8
4 1	14 22.49	- 0 13.6	1.675	2.613	9.5	20.1	4 1	14 19.42	+ 0 55.1	2.272	3.206	7.5	19.7
4 11	14 14.44	+ 0 39.0	1.614	2.590	6.3	19.9	4 11	14 12.40	+ 1 32.6	2.241	3.214	5.1	19.5
4 21	14 4.94	+ 1 25.4	1.579	2.567	5.2	19.8	4 21	14 4.59	+ 2 3.2	2.237	3.221	4.4	19.5
5 1	13 55.02	+ 1 59.2	1.572	2.544	7.6	19.9	5 1	13 56.73	+ 2 23.0	2.261	3.228	6.0	19.6
5 11	13 45.81	+ 2 15.2	1.590	2.520	11.3	20.0	5 11	13 49.57	+ 2 29.4	2.313	3.235	8.6	19.8
5 21	13 38.26	+ 2 11.0	1.631	2.496	15.0	20.2	5 21	13 43.69	+ 2 21.5	2.389	3.242	11.2	19.9
5 31	13 33.04	+ 1 46.5	1.691	2.471	18.2	20.3	5 31	13 39.51	+ 1 59.5	2.486	3.248	13.5	20.1
<b>473276</b>	2015 <i>MC</i> <sub>94</sub>	4 22.9 257°61		2°7/19.7 18									

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>119499</b>	2001 <i>UV</i> <sub>113</sub>		4 22.9 344°86	0°7/22.5	18		<b>371609</b>	2006 <i>XQ</i> <sub>9</sub>		4 22.9 251°26	0°4/22.6	17	
3 22	14 27.30	-11 50.8	1.566	2.437	14.2	19.7	3 22	14 27.88	-13 2.6	1.858	2.718	12.8	21.2
4 1	14 21.82	-11 39.8	1.496	2.435	10.2	19.5	4 1	14 22.09	-12 40.2	1.770	2.704	9.3	20.9
4 11	14 14.07	-11 20.4	1.448	2.433	5.7	19.2	4 11	14 14.20	-12 8.3	1.706	2.689	5.2	20.6
4 21	14 4.89	-10 56.1	1.427	2.431	1.0	18.9	4 21	14 4.93	-11 29.9	1.669	2.673	0.9	20.3
5 1	13 55.45	-10 31.4	1.431	2.429	4.3	19.1	5 1	13 55.29	-10 49.7	1.660	2.657	3.9	20.5
5 11	13 46.96	-10 11.6	1.462	2.428	9.0	19.4	5 11	13 46.37	-10 13.0	1.678	2.641	8.3	20.7
5 21	13 40.38	-10 1.0	1.516	2.427	13.2	19.6	5 21	13 39.07	-9 44.7	1.721	2.625	12.3	20.9
5 31	13 36.32	-10 2.7	1.591	2.426	16.8	19.8	5 31	13 34.04	-9 28.5	1.786	2.607	15.8	21.1
<b>354833</b>	2005 <i>XE</i> <sub>45</sub>		4 22.9 163°79	0°4/23.2	18		<b>30538</b>	2001 <i>OG</i> <sub>12</sub>		4 22.9 205°49	4°4/18.3	18	
3 22	14 31.02	-15 9.4	1.602	2.459	14.7	22.0	3 22	14 23.23	-0 31.0	2.353	3.224	10.0	18.4
4 1	14 24.43	-14 52.2	1.533	2.464	10.7	21.8	4 1	14 18.21	+0 30.3	2.286	3.222	7.4	18.3
4 11	14 15.49	-14 23.0	1.487	2.468	6.1	21.5	4 11	14 11.77	+1 30.7	2.246	3.219	5.1	18.1
4 21	14 5.12	-13 44.6	1.468	2.472	1.2	21.2	4 21	14 4.50	+2 25.1	2.233	3.216	4.5	18.1
5 1	13 54.55	-13 2.0	1.476	2.475	3.9	21.4	5 1	13 57.13	+3 8.5	2.249	3.213	6.3	18.2
5 11	13 45.03	-12 21.8	1.510	2.477	8.7	21.7	5 11	13 50.37	+3 37.4	2.292	3.210	8.9	18.3
5 21	13 37.54	-11 49.4	1.569	2.479	12.9	21.9	5 21	13 44.82	+3 50.1	2.358	3.206	11.5	18.5
5 31	13 32.68	-11 29.2	1.649	2.480	16.5	22.1	5 31	13 40.92	+3 46.3	2.446	3.202	13.9	18.7
<b>368089</b>	2012 <i>VF</i> <sub>33</sub>		4 22.9 127°18	0°7/22.2	17		<b>384015</b>	2008 <i>UL</i> <sub>73</sub>		4 22.9 288°04	4°0/26.4	17	
3 22	14 23.66	-12 24.9	2.486	3.342	10.1	21.6	3 22	14 25.03	-25 35.9	1.881	2.706	14.2	21.1
4 1	14 18.42	-11 44.8	2.420	3.353	7.2	21.5	4 1	14 20.20	-25 24.6	1.782	2.686	11.2	20.9
4 11	14 11.83	-10 57.9	2.380	3.363	3.9	21.3	4 11	14 13.21	-24 53.3	1.706	2.666	7.8	20.6
4 21	14 4.50	-10 7.7	2.369	3.373	0.8	21.0	4 21	14 4.78	-24 2.2	1.656	2.646	4.7	20.4
5 1	13 57.12	-9 18.3	2.388	3.383	3.1	21.3	5 1	13 55.92	-22 54.6	1.632	2.626	4.5	20.4
5 11	13 50.39	-8 33.8	2.435	3.393	6.4	21.5	5 11	13 47.77	-21 36.9	1.634	2.606	7.7	20.5
5 21	13 44.86	-7 57.6	2.508	3.402	9.3	21.7	5 21	13 41.27	-20 17.1	1.662	2.585	11.5	20.7
5 31	13 40.94	-7 32.2	2.605	3.411	11.8	21.9	5 31	13 37.12	-19 2.9	1.712	2.565	15.0	20.8
<b>502699</b>	2015 <i>DN</i> <sub>17</sub>		4 22.9 212°07	0°2/23.1	17		<b>508092</b>	2015 <i>DX</i> <sub>117</sub>		4 22.9 303°03	0°4/23.2	17	
3 22	14 27.49	-14 3.0	1.936	2.793	12.6	21.5	3 22	14 28.85	-13 21.7	1.812	2.671	13.2	21.0
4 1	14 21.63	-13 55.5	1.859	2.791	9.1	21.3	4 1	14 22.82	-13 35.6	1.731	2.663	9.6	20.7
4 11	14 13.84	-13 39.3	1.807	2.789	5.2	21.0	4 11	14 14.61	-13 42.2	1.674	2.655	5.5	20.5
4 21	14 4.85	-13 16.6	1.782	2.787	1.0	20.7	4 21	14 5.00	-13 42.8	1.643	2.647	1.1	20.2
5 1	13 55.63	-12 51.1	1.786	2.785	3.4	20.9	5 1	13 55.04	-13 40.1	1.641	2.640	3.6	20.3
5 11	13 47.20	-12 27.1	1.816	2.782	7.5	21.2	5 11	13 45.85	-13 37.6	1.665	2.632	8.0	20.6
5 21	13 40.36	-12 8.9	1.872	2.780	11.3	21.4	5 21	13 38.35	-13 39.1	1.714	2.625	12.0	20.8
5 31	13 35.68	-11 59.8	1.950	2.777	14.5	21.6	5 31	13 33.22	-13 47.7	1.785	2.618	15.4	21.0
<b>215564</b>	2003 <i>DG</i> <sub>24</sub>		4 22.9 340°70	1°4/23.8	17		<b>294676</b>	2008 <i>AJ</i> <sub>105</sub>		4 22.9 205°03	3°5/25.6	17	
3 22	14 28.34	-15 22.8	1.943	2.795	12.7	19.2	3 22	14 29.10	-23 3.3	1.783	2.615	14.6	21.4
4 1	14 22.34	-15 52.1	1.863	2.790	9.4	19.0	4 1	14 23.08	-23 4.0	1.702	2.612	11.2	21.1
4 11	14 14.30	-16 13.7	1.806	2.784	5.6	18.8	4 11	14 14.78	-22 47.2	1.644	2.609	7.5	20.9
4 21	14 4.94	-16 27.9	1.777	2.779	1.9	18.5	4 21	14 5.04	-22 13.3	1.611	2.605	4.1	20.7
5 1	13 55.24	-16 36.4	1.776	2.775	3.4	18.6	5 1	13 54.98	-21 25.7	1.605	2.601	4.3	20.7
5 11	13 46.27	-16 42.0	1.802	2.770	7.3	18.8	5 11	13 45.82	-20 30.4	1.627	2.597	7.8	20.9
5 21	13 38.90	-16 48.2	1.854	2.767	11.1	19.0	5 21	13 38.50	-19 34.6	1.673	2.592	11.7	21.1
5 31	13 33.76	-16 58.3	1.927	2.763	14.3	19.2	5 31	13 33.69	-18 45.1	1.741	2.586	15.2	21.3
<b>179848</b>	2002 <i>TX</i> <sub>248</sub>		4 22.9 246°79	1°0/22.1	18		<b>155059</b>	2005 <i>SF</i> <sub>28</sub>		4 22.9 295°22	2°1/24.3	18	
3 22	14 26.93	-12 15.1	1.788	2.653	13.0	21.2	3 22	14 27.59	-19 37.6	1.289	2.152	17.2	20.3
4 1	14 21.42	-11 36.6	1.704	2.641	9.4	21.0	4 1	14 22.52	-19 14.8	1.218	2.150	12.8	20.0
4 11	14 13.81	-10 48.2	1.645	2.629	5.2	20.7	4 11	14 14.66	-18 31.3	1.169	2.147	7.8	19.8
4 21	14 4.86	-9 53.8	1.612	2.616	1.1	20.4	4 21	14 5.03	-17 30.0	1.143	2.145	2.8	19.4
5 1	13 55.58	-8 59.2	1.607	2.603	4.3	20.6	5 1	13 55.06	-16 17.7	1.142	2.142	4.4	19.5
5 11	13 47.08	-8 10.7	1.629	2.589	8.7	20.8	5 11	13 46.28	-15 3.9	1.165	2.140	9.6	19.8
5 21	13 40.24	-7 33.4	1.675	2.576	12.8	21.0	5 21	13 39.84	-13 58.2	1.211	2.137	14.6	20.1
5 31	13 35.69	-7 11.1	1.742	2.561	16.3	21.2	5 31	13 36.44	-13 7.9	1.276	2.135	18.8	20.3
<b>478000</b>	2011 <i>SG</i> <sub>139</sub>		4 22.9 241°22	0°3/23.2	16		<b>170041</b>	2002 <i>VS</i> <sub>36</sub>		4 22.9 52°64	2°9/20.9	18	
3 22	14 24.44	-14 59.0	2.622	3.469	10.0	23.1	3 22	14 27.32	-5 13.2	1.794	2.668	12.6	19.1
4 1	14 19.10	-14 38.4	2.529	3.456	7.3	22.9	4 1	14 21.31	-4 52.4	1.749	2.690	8.9	19.0
4 11	14 12.30	-14 9.8	2.462	3.442	4.1	22.7	4 11	14 13.53	-4 30.7	1.729	2.712	5.2	18.8
4 21	14 4.60	-13 35.1	2.423	3.427	0.8	22.4	4 21	14 4.81	-4 12.2	1.735	2.734	2.9	18.7
5 1	13 56.67	-12 57.6	2.414	3.412	2.7	22.6	5 1	13 56.16	-4 0.9	1.769	2.757	5.2	18.9
5 11	13 49.24	-12 21.1	2.433	3.397	6.0	22.8	5 11	13 48.51	-4 0.0	1.830	2.779	8.7	19.1
5 21	13 42.93	-11 49.1	2.480	3.381	9.1	22.9	5 21	13 42.56	-4 11.0	1.914	2.802	12.0	19.4
5 31	13 38.23	-11 24.8	2.550	3.365	11.8	23.1	5 31	13 38.73	-4 34.2	2.020	2.825	14.8	19.6
<b>308366</b>	2005 <i>QR</i> <sub>167</sub>		4 22.9 216°67	0°8/22.1	18		<b>436676</b>	2011 <i>SJ</i> <sub>116</sub>		4 22.9 225°18	2°8/19.8	17	
3 22	14 24.71	-10 18.7	2.941	3.793	8.9	21.8	3 22	14 22.59	-5 31.2	2.567	3.435	9.5	21.4
4 1	14 19.10	-10 2.3	2.854	3.785	6.3	21.7	4 1	14 17.71	-4 34.3	2.490	3.428	6.8	21.2
4 11	14 12.22	-9 41.7	2.794	3.776	3.5	21.5	4 11	14 11.50	-3 34.6	2.439	3.420	4.1	21.0
4 21	14 4.58	-9 19.2	2.763	3.767	0.9	21.2	4 21	14 4.50	-2 36.3	2.416	3.412	2.8	20.9
5 1	13 56.77	-8 57.3	2.763	3.758	2.9	21.4	5 1	13 57.35	-1 43.9	2.423	3.403	4.7	21.0
5 11	13 49.43	-8 38.9	2.793	3.748	5.8	21.6	5 11	13 50.75	-1 1.5	2.458	3.394	7.5	21.1
5 21	13 43.09	-8 26.4	2.849	3.737	8.5	21.7	5 21	13 45.23	-0 31.8	2.519	3.385	10.3	21.3
5 31	13 38.17	-8 21.6	2.929	3.726	10.9	21.9	5 31	13 41.24	-0 16.3	2.601	3.375	12.7	21.5
<b>508830</b>	2001 <i>TL</i> <sub>124</sub>		4 22.9 200°33	1°0/24.3	18		<b>108239</b>	2001 <i>HT</i> <sub>42</sub>		4 22.9 357°86	4°2/19.8		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$		
<b>213016</b>	1995 SX <sub>51</sub>	4 22.9 206°95 1°1/24.1 17						<b>175424</b>	2006 PY <sub>29</sub>	4 22.9 222°26 3°2/20.6 17					
3 22	14 25.38	-17 23.2	2.791	3.626	9.8	21.4	3 22	14 28.87	-5 49.2	1.778	2.649	12.8	20.7		
4 1	14 19.69	-17 17.3	2.703	3.621	7.2	21.2	4 1	14 22.76	-5 11.8	1.703	2.642	9.2	20.5		
4 11	14 12.61	-17 3.0	2.641	3.615	4.3	21.0	4 11	14 14.57	-4 31.1	1.652	2.635	5.4	20.2		
4 21	14 4.69	-16 41.7	2.608	3.609	1.5	20.8	4 21	14 5.08	-3 52.1	1.629	2.627	3.2	20.1		
5 1	13 56.58	-16 15.7	2.604	3.603	2.5	20.8	5 1	13 55.33	-3 20.3	1.633	2.619	5.7	20.2		
5 11	13 48.99	-15 48.2	2.631	3.596	5.5	21.0	5 11	13 46.41	-3 0.5	1.664	2.611	9.7	20.4		
5 21	13 42.49	-15 22.6	2.684	3.589	8.4	21.2	5 21	13 39.19	-2 55.5	1.718	2.602	13.4	20.6		
5 31	13 37.55	-15 1.9	2.762	3.581	10.9	21.4	5 31	13 34.28	-3 6.6	1.793	2.592	16.6	20.8		
<b>102189</b>	1999 SX <sub>1</sub>	4 22.9 276°30 12°1/4.8 18						<b>129989</b>	1999 VS <sub>5</sub>	4 22.9 305°48 0°9/22.4 17					
3 22	14 35.86	-53 18.1	2.687	3.286	15.4	19.8	3 22	14 27.35	-12 59.0	1.381	2.257	15.5	20.0		
4 1	14 28.67	-54 40.8	2.581	3.263	14.5	19.6	4 1	14 22.75	-12 26.5	1.272	2.213	11.5	19.7		
4 11	14 18.38	-55 40.3	2.492	3.241	13.5	19.5	4 11	14 15.17	-11 38.9	1.184	2.169	6.6	19.2		
4 21	14 5.73	-56 11.1	2.422	3.218	12.6	19.4	4 21	14 5.27	-10 39.5	1.120	2.124	1.2	18.8		
5 1	13 52.07	-56 9.2	2.373	3.195	12.1	19.3	5 1	13 54.27	-9 34.8	1.081	2.079	5.3	18.9		
5 11	13 39.04	-55 35.2	2.345	3.172	12.2	19.3	5 11	13 43.74	-8 33.8	1.067	2.034	11.4	19.1		
5 21	13 28.11	-54 33.7	2.339	3.148	12.9	19.3	5 21	13 35.14	-7 45.5	1.075	1.989	17.1	19.3		
5 31	13 20.34	-53 12.5	2.353	3.125	13.9	19.3	5 31	13 29.59	-7 16.6	1.100	1.943	22.2	19.4		
<b>412045</b>	2013 DD <sub>7</sub>	4 22.9 343°69 2°1/21.9 17						<b>79460</b>	1997 YG <sub>2</sub>	4 22.9 132°60 4°2/18.9 18					
3 22	14 27.59	-9 0.9	1.135	2.025	16.9	20.5	3 22	14 24.58	-0 37.5	2.321	3.191	10.2	19.6		
4 1	14 22.73	-8 50.7	1.070	2.019	12.2	20.2	4 1	14 19.17	+0 9.7	2.262	3.197	7.5	19.4		
4 11	14 14.89	-8 33.8	1.025	2.013	6.9	19.9	4 11	14 12.33	+0 55.2	2.229	3.204	5.0	19.3		
4 21	14 5.12	-8 14.9	1.004	2.008	2.1	19.6	4 21	14 4.69	+1 34.4	2.224	3.210	4.2	19.2		
5 1	13 54.92	-8 0.1	1.006	2.003	5.9	19.8	5 1	13 57.00	+2 3.2	2.248	3.216	6.0	19.4		
5 11	13 45.95	-7 55.6	1.031	2.000	11.5	20.1	5 11	13 49.99	+2 18.4	2.298	3.222	8.6	19.5		
5 21	13 39.44	-8 5.4	1.077	1.997	16.6	20.3	5 21	13 44.24	+2 18.9	2.373	3.227	11.3	19.7		
5 31	13 36.15	-8 31.5	1.140	1.995	20.8	20.6	5 31	13 40.19	+2 4.6	2.469	3.233	13.6	19.9		
<b>478228</b>	2011 UH <sub>327</sub>	4 22.9 208°01 1°2/21.6 17						<b>508654</b>	2017 TY <sub>12</sub>	4 22.9 303°60 1°0/23.7 17					
3 22	14 23.08	-10 4.8	2.708	3.567	9.3	22.1	3 22	14 24.77	-17 28.2	1.417	2.285	15.6	20.8		
4 1	14 18.01	-9 28.8	2.628	3.562	6.6	22.0	4 1	14 20.55	-16 57.4	1.324	2.259	11.6	20.5		
4 11	14 11.66	-8 47.8	2.574	3.558	3.7	21.8	4 11	14 13.70	-16 8.0	1.252	2.234	6.9	20.1		
4 21	14 4.54	-8 4.9	2.550	3.553	1.2	21.6	4 21	14 4.99	-15 2.9	1.205	2.209	1.8	19.7		
5 1	13 57.30	-7 23.7	2.555	3.547	3.3	21.7	5 1	13 55.65	-13 48.2	1.183	2.184	4.3	19.8		
5 11	13 50.57	-6 47.8	2.589	3.542	6.3	21.9	5 11	13 47.11	-12 33.1	1.186	2.159	9.7	20.1		
5 21	13 44.91	-6 20.2	2.649	3.536	9.1	22.1	5 21	13 40.56	-11 26.7	1.211	2.134	14.8	20.3		
5 31	13 40.73	-6 2.9	2.732	3.529	11.6	22.2	5 31	13 36.85	-10 36.5	1.256	2.110	19.3	20.5		
<b>78824</b>	2003 QS <sub>13</sub>	4 22.9 232°83 1°6/21.7 17						<b>420398</b>	2012 CP <sub>44</sub>	4 22.9 15°91 0°7/22.5 17					
3 22	14 28.55	-10 21.5	1.901	2.764	12.5	20.7	3 22	14 25.14	-13 13.2	1.288	2.170	15.9	20.8		
4 1	14 22.51	-9 41.5	1.814	2.750	9.0	20.5	4 1	14 20.58	-12 41.2	1.228	2.173	11.5	20.5		
4 11	14 14.43	-8 53.6	1.753	2.736	5.0	20.2	4 11	14 13.51	-11 56.7	1.190	2.176	6.4	20.3		
4 21	14 5.03	-8 1.8	1.718	2.722	1.6	20.0	4 21	14 4.92	-11 4.8	1.175	2.180	1.1	19.9		
5 1	13 55.30	-7 11.6	1.713	2.706	4.5	20.1	5 1	13 56.13	-10 12.9	1.186	2.185	4.7	20.2		
5 11	13 46.30	-6 28.9	1.735	2.690	8.7	20.3	5 11	13 48.52	-9 28.6	1.221	2.190	9.9	20.5		
5 21	13 38.88	-5 58.1	1.782	2.673	12.6	20.5	5 21	13 43.07	-8 57.9	1.277	2.196	14.5	20.8		
5 31	13 33.69	-5 42.2	1.849	2.655	16.0	20.7	5 31	13 40.40	-8 44.3	1.352	2.203	18.4	21.0		
<b>64654</b>	2001 XH <sub>58</sub>	4 22.9 79°54 0°7/22.3 18						<b>117906</b>	4046 P-L	4 22.9 182°09 1°9/24.5 18					
3 22	14 24.00	-12 14.7	2.225	3.086	11.0	19.7	3 22	14 30.35	-19 24.4	2.060	2.895	12.8	20.8		
4 1	14 18.80	-11 42.2	2.165	3.100	7.8	19.5	4 1	14 23.67	-19 14.9	1.980	2.896	9.6	20.6		
4 11	14 12.12	-11 2.9	2.130	3.114	4.3	19.3	4 11	14 15.02	-18 52.2	1.924	2.897	5.9	20.4		
4 21	14 4.62	-10 20.2	2.123	3.128	0.9	19.1	4 21	14 5.16	-18 17.9	1.896	2.896	2.4	20.2		
5 1	13 57.09	-9 38.3	2.145	3.141	3.3	19.3	5 1	13 55.09	-17 35.4	1.897	2.895	3.3	20.2		
5 11	13 50.29	-9 1.5	2.195	3.155	6.8	19.5	5 11	13 45.83	-16 50.0	1.926	2.893	7.1	20.5		
5 21	13 44.83	-8 33.3	2.270	3.169	10.0	19.7	5 21	13 38.19	-16 6.9	1.982	2.891	10.7	20.7		
5 31	13 41.13	-8 15.9	2.368	3.182	12.6	19.9	5 31	13 32.75	-15 31.1	2.060	2.887	13.8	20.9		
<b>501252</b>	2013 VX <sub>21</sub>	4 22.9 216°82 2°3/20.7 18						<b>125497</b>	2001 WJ <sub>29</sub>	4 22.9 191°23 2°1/21.0 17					
3 22	14 26.33	-7 17.0	2.364	3.226	10.4	22.4	3 22	14 26.20	-8 37.7	2.098	2.964	11.4	20.7		
4 1	14 20.53	-6 30.5	2.281	3.217	7.4	22.2	4 1	14 20.54	-7 49.4	2.025	2.963	8.1	20.5		
4 11	14 13.15	-5 39.7	2.224	3.206	4.3	21.9	4 11	14 13.20	-6 55.6	1.978	2.961	4.6	20.2		
4 21	14 4.82	-4 48.7	2.196	3.195	2.3	21.8	4 21	14 4.85	-6 0.7	1.958	2.959	2.1	20.1		
5 1	13 56.28	-4 2.1	2.198	3.184	4.5	21.9	5 1	13 56.36	-5 10.1	1.967	2.956	4.6	20.2		
5 11	13 48.35	-3 24.3	2.228	3.171	7.8	22.1	5 11	13 48.59	-4 28.6	2.004	2.953	8.1	20.4		
5 21	13 41.67	-2 58.3	2.283	3.158	10.9	22.3	5 21	13 42.24	-3 59.7	2.066	2.950	11.5	20.6		
5 31	13 36.74	-2 45.9	2.361	3.144	13.6	22.4	5 31	13 37.82	-3 45.4	2.150	2.946	14.3	20.8		
<b>505221</b>	2012 TL <sub>306</sub>	4 22.9 233°13 1°5/24.4 17						<b>406483</b>	2007 US <sub>99</sub>	4 22.9 110°19 2°2/21.6 18					
3 22	14 25.32	-19 12.9	2.239	3.078	11.7	21.8	3 22	14 32.47	-7 24.5	1.686	2.552	13.7	21.2		
4 1	14 19.97	-18 52.9	2.151	3.070	8.7	21.6	4 1	14 25.20	-7 11.0	1.632	2.569	9.7	20.9		
4 11	14 12.91	-18 20.4	2.087	3.061	5.4	21.4	4 11	14 15.82	-6 54.2	1.602	2.586	5.5	20.7		
4 21	14 4.79	-17 37.4	2.051	3.052	2.0	21.1	4 21	14 5.28	-6 38.0	1.600	2.602	2.2	20.5		
5 1	13 56.42	-16 47.3	2.044	3.043	3.0	21.2	5 1	13 54.74	-6 26.4	1.625	2.617	4.9	20.8		
5 11	13 48.70	-15 55.2	2.065	3.033	6.6	21.4	5 11	13 45.32	-6 23.2	1.678	2.633	9.0	21.0		
5 21	13 42.35	-15 6.2	2.112	3.023	10.0	21.6	5 21	13 37.85	-6 30.7	1.755	2.647	12.7	21.3		
5 31	13 37.89	-14 24.9	2.182	3.013	13.0	21.8	5 31	13 32.84	-6 50.1	1.853	2.661	15.8	21.5		
<b>17420</b>	1988 RL <sub>13</sub>	4 22.9 260°51 1°8/19.9 18						<b>75541</b>	1999 XY <sub>234</sub>	4 22.9 212°92 3°5/20.0 17					
3 22	14 18.23	-3 4.5	4.463	5.324	5.9	19.2	3 22	14 27.88	-4 57.4	1.926	2.796	12.0	20.3		
4 1	14 14.17	-2 46.3	4.385	5.319	4.2	19.1	4 1	14 21.91	-4 4.8	1.851	2.789	8.7	20.1		
4 11															

EPHEMERIDES

4 22.9

4 22.9

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>384040</b>	2008 <i>UF</i> <sub>182</sub>	4 22.9 188°92		0°8/22.2 17			<b>410782</b>	2009 <i>FS</i> <sub>31</sub>	4 22.9 2°55		2°4/21.4 17		
3 22	14 25.69	-11 48.5	2.140	3.000	11.4	22.0	3 22	14 23.36	-10 17.0	1.117	2.013	16.7	20.3
4 1	14 20.18	-11 17.8	2.065	3.000	8.2	21.8	4 1	14 19.58	-9 29.1	1.060	2.011	12.0	20.0
4 11	14 13.01	-10 39.8	2.016	2.999	4.5	21.6	4 11	14 13.07	-8 30.4	1.023	2.011	6.7	19.7
4 21	14 4.83	-9 58.0	1.994	2.998	1.0	21.3	4 21	14 4.89	-7 28.1	1.008	2.011	2.5	19.4
5 1	13 56.50	-9 16.7	2.001	2.997	3.6	21.5	5 1	13 56.46	-6 31.4	1.017	2.013	6.2	19.6
5 11	13 48.88	-8 40.5	2.036	2.995	7.3	21.8	5 11	13 49.27	-5 49.1	1.049	2.016	11.6	19.9
5 21	13 42.65	-8 13.2	2.096	2.993	10.7	22.0	5 21	13 44.41	-5 26.6	1.101	2.019	16.4	20.2
5 31	13 38.32	-7 57.4	2.178	2.991	13.6	22.2	5 31	13 42.51	-5 26.3	1.170	2.024	20.4	20.5
<b>480844</b>	2000 <i>PM</i> <sub>6</sub>	4 22.9 284°94		7°4/29.2 16			<b>63213</b>	2001 <i>AY</i> <sub>18</sub>	4 22.9 339°29		2°7/20.8 18 R		
3 22	14 30.84	-36 43.7	2.597	3.334	13.1	21.9	3 22	14 24.01	-8 8.2	1.684	2.563	13.0	18.7
4 1	14 24.38	-37 24.4	2.470	3.296	11.3	21.7	4 1	14 19.33	-7 18.7	1.615	2.559	9.3	18.5
4 11	14 15.69	-37 47.0	2.364	3.256	9.4	21.5	4 11	14 12.67	-6 23.1	1.570	2.555	5.3	18.3
4 21	14 5.34	-37 48.2	2.283	3.217	7.9	21.3	4 21	14 4.81	-5 27.1	1.551	2.552	2.7	18.1
5 1	13 54.26	-37 26.5	2.229	3.176	7.4	21.2	5 1	13 56.75	-4 36.9	1.559	2.549	5.4	18.2
5 11	13 43.54	-36 43.9	2.202	3.135	8.5	21.2	5 11	13 49.54	-3 58.6	1.592	2.546	9.5	18.5
5 21	13 34.21	-35 45.2	2.201	3.093	10.5	21.2	5 21	13 43.99	-3 35.9	1.649	2.544	13.3	18.7
5 31	13 27.05	-34 37.5	2.223	3.050	12.9	21.3	5 31	13 40.65	-3 30.7	1.726	2.541	16.5	18.9
<b>246365</b>	2007 <i>TV</i> <sub>386</sub>	4 22.9 209°80		0°1/23.0 16			<b>173831</b>	2001 <i>TV</i> <sub>64</sub>	4 22.9 163°09		0°7/22.2 18		
3 22	14 29.11	-15 6.7	1.922	2.774	12.9	21.8	3 22	14 23.98	-11 39.1	2.808	3.661	9.2	21.5
4 1	14 22.90	-14 31.9	1.838	2.767	9.4	21.6	4 1	14 18.60	-11 7.4	2.735	3.667	6.6	21.3
4 11	14 14.65	-13 45.3	1.779	2.760	5.3	21.3	4 11	14 11.99	-10 30.3	2.689	3.671	3.6	21.1
4 21	14 5.13	-12 50.2	1.747	2.751	0.9	21.0	4 21	14 4.68	-9 50.5	2.672	3.676	0.8	20.9
5 1	13 55.34	-11 51.7	1.744	2.742	3.6	21.1	5 1	13 57.28	-9 11.2	2.685	3.680	2.9	21.1
5 11	13 46.32	-10 56.0	1.769	2.732	7.9	21.4	5 11	13 50.44	-8 36.1	2.727	3.683	5.9	21.3
5 21	13 38.95	-10 8.6	1.819	2.721	11.9	21.6	5 21	13 44.66	-8 7.8	2.796	3.686	8.6	21.5
5 31	13 33.82	-9 33.8	1.892	2.709	15.2	21.8	5 31	13 40.33	-7 48.6	2.889	3.689	10.9	21.6
<b>174824</b>	2003 <i>YA</i> <sub>36</sub>	4 22.9 198°36		3°3/25.8 16			<b>346702</b>	2008 <i>YB</i> <sub>151</sub>	4 22.9 129°87		1°2/21.9 17		
3 22	14 29.94	-23 48.6	2.159	2.976	12.9	21.7	3 22	14 24.93	-10 46.3	2.236	3.098	10.9	21.7
4 1	14 23.41	-23 46.4	2.071	2.972	10.0	21.5	4 1	14 19.52	-10 11.2	2.170	3.105	7.8	21.5
4 11	14 14.91	-23 28.3	2.008	2.968	6.7	21.3	4 11	14 12.59	-9 30.1	2.129	3.113	4.3	21.3
4 21	14 5.18	-22 55.1	1.971	2.963	3.8	21.1	4 21	14 4.78	-8 46.6	2.116	3.120	1.2	21.1
5 1	13 55.16	-22 9.2	1.963	2.957	3.9	21.1	5 1	13 56.89	-8 5.0	2.132	3.126	3.6	21.3
5 11	13 45.89	-21 15.9	1.983	2.950	6.9	21.3	5 11	13 49.72	-7 29.5	2.176	3.133	7.1	21.5
5 21	13 38.20	-20 21.1	2.030	2.942	10.3	21.4	5 21	13 43.88	-7 3.5	2.246	3.139	10.3	21.7
5 31	13 32.68	-19 30.6	2.100	2.934	13.4	21.6	5 31	13 39.82	-6 49.1	2.338	3.145	13.0	21.9
<b>302009</b>	2000 <i>RA</i> <sub>98</sub>	4 22.9 235°33		4°0/27.9 18			<b>47140</b>	1999 <i>GL</i> <sub>37</sub>	4 22.9 139°77		0°1/23.1 18		
3 22	14 24.71	-29 53.0	2.862	3.644	11.0	20.7	3 22	14 26.94	-13 28.8	2.346	3.197	10.9	18.6
4 1	14 19.35	-29 38.9	2.759	3.630	8.9	20.5	4 1	14 20.95	-13 23.6	2.274	3.203	7.8	18.4
4 11	14 12.52	-29 8.6	2.679	3.616	6.6	20.3	4 11	14 13.40	-13 11.5	2.228	3.209	4.4	18.2
4 21	14 4.77	-28 22.4	2.627	3.601	4.6	20.2	4 21	14 4.92	-12 54.7	2.210	3.215	0.8	17.9
5 1	13 56.81	-27 22.3	2.603	3.586	4.2	20.1	5 1	13 56.33	-12 35.9	2.222	3.220	2.9	18.1
5 11	13 49.39	-26 12.5	2.609	3.571	5.8	20.2	5 11	13 48.41	-12 18.6	2.262	3.225	6.4	18.3
5 21	13 43.13	-24 58.2	2.642	3.555	8.2	20.3	5 21	13 41.82	-12 5.9	2.328	3.230	9.6	18.5
5 31	13 38.50	-23 44.8	2.701	3.538	10.6	20.5	5 31	13 37.03	-12 0.4	2.418	3.235	12.3	18.7
<b>424025</b>	2006 <i>XW</i> <sub>46</sub>	4 22.9 94°51		5°3/28.1 18			<b>31234</b>	Bea	4 22.9 73°43		0°7/23.7 18		
3 22	14 30.25	-30 29.1	1.897	2.692	15.3	22.3	3 22	14 24.89	-16 45.8	2.097	2.948	12.0	19.7
4 1	14 23.60	-30 18.4	1.840	2.718	12.2	22.1	4 1	14 19.55	-16 19.8	2.038	2.965	8.7	19.5
4 11	14 14.92	-29 44.7	1.804	2.744	8.9	22.0	4 11	14 12.61	-15 43.1	2.004	2.983	5.0	19.3
4 21	14 5.15	-28 49.0	1.793	2.769	6.1	21.9	4 21	14 4.79	-14 58.8	1.997	3.000	1.3	19.1
5 1	13 55.44	-27 35.3	1.810	2.794	5.5	21.9	5 1	13 56.95	-14 11.2	2.018	3.017	3.0	19.2
5 11	13 46.90	-26 11.1	1.854	2.819	7.5	22.0	5 11	13 49.93	-13 25.2	2.067	3.035	6.6	19.5
5 21	13 40.30	-24 44.7	1.924	2.842	10.5	22.3	5 21	13 44.37	-12 45.4	2.142	3.052	9.9	19.7
5 31	13 36.11	-23 23.8	2.018	2.865	13.3	22.5	5 31	13 40.71	-12 15.2	2.240	3.069	12.8	19.9
<b>346206</b>	2007 <i>XB</i> <sub>53</sub>	4 22.9 123°97		2°8/20.2 18			<b>110578</b>	2001 <i>TJ</i> <sub>117</sub>	4 22.9 191°18		2°4/21.1 17		
3 22	14 23.95	-5 10.8	2.303	3.173	10.3	20.8	3 22	14 29.47	-5 55.2	2.230	3.091	11.0	20.1
4 1	14 18.76	-4 28.7	2.239	3.177	7.4	20.6	4 1	14 22.83	-5 36.1	2.155	3.089	7.9	19.9
4 11	14 12.14	-3 44.8	2.201	3.182	4.4	20.4	4 11	14 14.48	-5 15.2	2.106	3.087	4.6	19.7
4 21	14 4.69	-3 3.4	2.191	3.187	2.8	20.3	4 21	14 5.12	-4 55.6	2.085	3.085	2.4	19.5
5 1	13 57.17	-2 28.7	2.209	3.192	4.8	20.5	5 1	13 55.58	-4 41.0	2.094	3.082	4.5	19.6
5 11	13 50.31	-2 4.2	2.255	3.196	7.8	20.6	5 11	13 46.75	-4 34.6	2.132	3.078	7.9	19.8
5 21	13 44.71	-1 52.2	2.326	3.200	10.7	20.8	5 21	13 39.33	-4 38.3	2.195	3.074	11.1	20.0
5 31	13 40.80	-1 53.6	2.419	3.205	13.2	21.0	5 31	13 33.83	-4 53.3	2.280	3.069	13.8	20.2
<b>312874</b>	2011 <i>UM</i> <sub>165</sub>	4 22.9 205°03		1°3/21.9 18			<b>94118</b>	2000 <i>YV</i> <sub>102</sub>	4 22.9 184°90		0°1/23.0 18		
3 22	14 25.74	-14 1.5	1.485	2.357	14.8	20.3	3 22	14 25.59	-15 5.8	2.529	3.375	10.3	20.6
4 1	14 20.79	-12 43.1	1.415	2.356	10.6	20.1	4 1	14 19.92	-14 27.7	2.449	3.375	7.5	20.4
4 11	14 13.55	-11 9.3	1.369	2.355	5.8	19.8	4 11	14 12.80	-13 40.6	2.395	3.375	4.2	20.2
4 21	14 4.95	-9 27.0	1.349	2.353	1.4	19.5	4 21	14 4.83	-12 47.4	2.369	3.374	0.7	19.9
5 1	13 56.15	-7 45.7	1.356	2.352	5.0	19.7	5 1	13 56.74	-11 52.2	2.374	3.372	2.8	20.1
5 11	13 48.39	-6 15.4	1.389	2.350	9.9	20.0	5 11	13 49.27	-10 59.4	2.408	3.369	6.2	20.3
5 21	13 42.58	-5 3.4	1.445	2.348	14.3	20.3	5 21	13 43.01	-10 13.3	2.469	3.366	9.3	20.5
5 31	13 39.29	-4 13.9	1.521	2.346	17.9	20.5	5 31	13 38.41	-9 36.9	2.553	3.363	12.0	20.7
<b>323396</b>	2004 <i>AE</i> <sub>3</sub>	4 22.9 152°32		16°3/ 3.9 18			<b>203681</b>	2002 <i>NX</i> <sub>11</sub>	4 22.9 249°83		2°8/25.6 17		
3 22	14 41.64												

EPHEMERIDES

4 22.9

4 23.0

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>59809</b>	1999 RW <sub>16</sub>		4 22.9 191°44	0°1/22.8	18		<b>346037</b>	2007 TS <sub>419</sub>		4 22.9 279°66	3°1/20.6	17	
3 22	14 22.72	-14 8.1	2.916	3.764	9.1	20.2	3 22	14 29.13	-4 15.3	2.142	3.005	11.2	20.7
4 1	14 17.73	-13 34.4	2.834	3.762	6.5	20.0	4 1	14 22.92	-3 53.0	2.039	2.974	8.2	20.5
4 11	14 11.53	-12 53.6	2.780	3.760	3.6	19.8	4 11	14 14.75	-3 29.2	1.962	2.942	5.0	20.2
4 21	14 4.62	-12 8.4	2.754	3.758	0.6	19.6	4 21	14 5.23	-3 8.0	1.913	2.910	3.1	20.0
5 1	13 57.61	-11 22.0	2.758	3.756	2.5	19.8	5 1	13 55.22	-2 53.2	1.893	2.877	5.3	20.1
5 11	13 51.10	-10 38.0	2.792	3.753	5.5	19.9	5 11	13 45.71	-2 48.8	1.901	2.844	9.0	20.3
5 21	13 45.58	-9 59.8	2.853	3.749	8.2	20.1	5 21	13 37.53	-2 57.1	1.934	2.810	12.5	20.4
5 31	13 41.46	-9 29.7	2.937	3.745	10.6	20.3	5 31	13 31.37	-3 19.3	1.989	2.775	15.7	20.6
<b>21543</b>	Jessop		4 22.9 292°67	3°9/26.9	18		<b>282711</b>	2006 BX <sub>193</sub>		4 22.9 294°51	0°4/22.3	18	
3 22	14 24.49	-26 25.2	2.395	3.204	12.1	18.9	3 22	14 17.16	-11 46.2	4.250	5.103	6.3	21.1
4 1	14 19.40	-26 31.4	2.307	3.199	9.5	18.7	4 1	14 13.50	-11 20.3	4.167	5.098	4.5	20.9
4 11	14 12.63	-26 22.4	2.243	3.194	6.8	18.5	4 11	14 9.08	-10 50.9	4.112	5.094	2.5	20.8
4 21	14 4.82	-25 58.3	2.205	3.189	4.5	18.3	4 21	14 4.24	-10 19.7	4.086	5.090	0.5	20.6
5 1	13 56.78	-25 21.3	2.195	3.184	4.2	18.3	5 1	13 59.32	-9 48.6	4.090	5.086	1.9	20.7
5 11	13 49.36	-24 35.3	2.213	3.179	6.4	18.4	5 11	13 54.70	-9 19.9	4.124	5.082	4.0	20.9
5 21	13 43.27	-23 45.5	2.257	3.175	9.2	18.6	5 21	13 50.70	-8 55.3	4.186	5.078	5.9	21.0
5 31	13 39.04	-22 57.3	2.325	3.170	11.8	18.8	5 31	13 47.57	-8 36.3	4.272	5.074	7.6	21.1
<b>312098</b>	2007 TM <sub>130</sub>		4 22.9 154°94	1°6/24.3	18		<b>1544</b>	Vinterhansenia		4 22.9 150°48	1°0/22.3	18	
3 22	14 28.05	-19 38.5	1.691	2.539	14.5	20.8	3 22	14 29.34	-11 43.2	1.716	2.580	13.5	15.9
4 1	14 22.28	-19 4.7	1.621	2.544	10.8	20.6	4 1	14 23.11	-11 15.5	1.649	2.586	9.7	15.7
4 11	14 14.34	-18 14.0	1.573	2.549	6.5	20.3	4 11	14 14.78	-10 39.5	1.607	2.591	5.4	15.4
4 21	14 5.11	-17 9.6	1.551	2.553	2.3	20.0	4 21	14 5.21	-9 59.0	1.592	2.596	1.2	15.1
5 1	13 55.72	-15 57.2	1.557	2.556	3.6	20.1	5 1	13 55.50	-9 19.3	1.604	2.601	4.2	15.4
5 11	13 47.33	-14 44.7	1.589	2.560	8.0	20.4	5 11	13 46.75	-8 45.9	1.644	2.605	8.6	15.6
5 21	13 40.82	-13 39.2	1.647	2.563	12.1	20.7	5 21	13 39.82	-8 23.0	1.707	2.609	12.5	15.9
5 31	13 36.74	-12 46.5	1.726	2.565	15.6	20.9	5 31	13 35.27	-8 13.6	1.792	2.612	15.8	16.1
<b>321864</b>	2010 RN <sub>155</sub>		4 22.9 237°45	2°2/21.2	17		<b>338569</b>	2003 ST <sub>85</sub>		4 22.9 240°56	0°1/22.9	17	
3 22	14 28.26	-8 47.9	1.872	2.739	12.5	21.5	3 22	14 25.13	-15 3.4	2.399	3.248	10.7	21.5
4 1	14 22.36	-8 4.9	1.787	2.725	9.0	21.2	4 1	14 19.78	-14 23.2	2.304	3.232	7.8	21.3
4 11	14 14.41	-7 15.1	1.727	2.711	5.1	21.0	4 11	14 12.84	-13 32.9	2.235	3.216	4.4	21.1
4 21	14 5.14	-6 23.1	1.694	2.696	2.2	20.8	4 21	14 4.89	-12 35.5	2.194	3.199	0.7	20.8
5 1	13 55.54	-5 34.7	1.690	2.680	5.0	20.9	5 1	13 56.70	-11 35.1	2.183	3.181	3.0	20.9
5 11	13 46.66	-4 55.5	1.713	2.664	9.1	21.1	5 11	13 49.06	-10 37.0	2.201	3.163	6.7	21.1
5 21	13 39.39	-4 29.7	1.760	2.648	12.9	21.3	5 21	13 42.64	-9 45.7	2.246	3.145	10.0	21.3
5 31	13 34.33	-4 19.8	1.828	2.630	16.2	21.5	5 31	13 37.97	-9 5.1	2.313	3.126	13.0	21.5
<b>203283</b>	2001 RL <sub>145</sub>		4 22.9 329°34	6°4/28.3	18		<b>253470</b>	2003 SD <sub>39</sub>		4 22.9 172°34	0°4/22.6	18	
3 22	14 26.23	-30 42.4	1.926	2.724	15.0	19.6	3 22	14 28.60	-13 48.3	1.991	2.845	12.4	21.2
4 1	14 21.13	-31 10.4	1.840	2.718	12.3	19.4	4 1	14 22.38	-13 9.6	1.918	2.849	8.9	21.0
4 11	14 13.81	-31 17.8	1.777	2.712	9.4	19.2	4 11	14 14.31	-12 21.0	1.870	2.852	5.0	20.8
4 21	14 5.04	-31 3.1	1.737	2.706	7.1	19.1	4 21	14 5.14	-11 26.2	1.850	2.855	0.8	20.4
5 1	13 55.90	-30 27.2	1.723	2.700	6.5	19.0	5 1	13 55.83	-10 30.3	1.859	2.856	3.6	20.7
5 11	13 47.57	-29 35.0	1.734	2.695	8.3	19.1	5 11	13 47.35	-9 39.1	1.896	2.857	7.7	20.9
5 21	13 40.98	-28 33.5	1.771	2.690	11.1	19.3	5 21	13 40.47	-8 57.2	1.959	2.858	11.3	21.1
5 31	13 36.81	-27 30.5	1.829	2.686	14.1	19.5	5 31	13 35.69	-8 28.2	2.044	2.857	14.4	21.3
<b>310478</b>	2000 SY <sub>242</sub>		4 22.9 240°29	6°0/26.5	17		<b>272671</b>	2005 XQ		4 22.9 106°48	3°5/26.6	18	
3 22	14 33.59	-26 32.0	1.675	2.490	16.1	20.8	3 22	14 29.63	-26 5.8	2.305	3.109	12.6	21.2
4 1	14 26.83	-27 20.6	1.586	2.480	13.0	20.5	4 1	14 22.83	-25 51.5	2.246	3.137	9.8	21.1
4 11	14 17.23	-27 51.0	1.520	2.469	9.5	20.3	4 11	14 14.41	-25 20.7	2.211	3.165	6.7	20.9
4 21	14 5.65	-28 0.1	1.478	2.458	6.6	20.1	4 21	14 5.14	-24 34.9	2.204	3.191	4.0	20.8
5 1	13 53.41	-27 47.8	1.462	2.447	6.4	20.1	5 1	13 55.91	-23 37.6	2.226	3.217	3.8	20.8
5 11	13 42.02	-27 18.2	1.473	2.436	9.2	20.2	5 11	13 47.62	-22 34.2	2.276	3.242	6.2	21.0
5 21	13 32.74	-26 38.7	1.508	2.424	13.0	20.4	5 21	13 40.89	-21 30.7	2.354	3.266	9.1	21.2
5 31	13 26.44	-25 57.6	1.564	2.411	16.5	20.6	5 31	13 36.16	-20 32.2	2.456	3.290	11.6	21.4
<b>379925</b>	2012 KO <sub>34</sub>		4 22.9 254°02	1°3/21.9	18		<b>430786</b>	2004 TT <sub>244</sub>		4 23.0 182°66	0°5/23.5	17	
3 22	14 26.04	-11 36.1	2.063	2.925	11.7	21.1	3 22	14 26.03	-16 14.1	2.073	2.924	12.1	22.0
4 1	14 20.66	-10 49.8	1.970	2.906	8.4	20.9	4 1	14 20.53	-15 44.9	1.997	2.925	8.8	21.8
4 11	14 13.42	-9 54.4	1.903	2.887	4.7	20.6	4 11	14 13.28	-15 4.6	1.945	2.925	5.1	21.6
4 21	14 4.98	-8 53.9	1.863	2.867	1.3	20.3	4 21	14 4.97	-14 16.0	1.921	2.925	1.1	21.3
5 1	13 56.22	-7 53.7	1.852	2.847	4.1	20.5	5 1	13 56.50	-13 23.7	1.925	2.924	3.1	21.5
5 11	13 48.07	-6 59.5	1.869	2.826	8.1	20.7	5 11	13 48.77	-12 33.0	1.957	2.923	7.0	21.7
5 21	13 41.33	-6 16.3	1.912	2.804	11.8	20.9	5 21	13 42.52	-11 48.9	2.015	2.922	10.6	21.9
5 31	13 36.59	-5 47.4	1.975	2.783	15.0	21.0	5 31	13 38.26	-11 15.2	2.095	2.920	13.7	22.1
<b>430650</b>	2003 SR <sub>205</sub>		4 22.9 263°06	2°5/24.9	17		<b>520265</b>	2014 EB <sub>118</sub>		4 23.0 259°21	1°5/21.4	16	
3 22	14 28.44	-20 10.9	2.116	2.949	12.5	21.4	3 22	14 22.93	-10 14.5	2.312	3.177	10.5	21.6
4 1	14 22.50	-20 22.0	2.018	2.932	9.5	21.2	4 1	14 18.18	-9 26.3	2.230	3.167	7.5	21.4
4 11	14 14.52	-20 21.1	1.944	2.914	6.1	20.9	4 11	14 11.92	-8 31.6	2.173	3.157	4.1	21.2
4 21	14 5.18	-20 8.3	1.898	2.895	3.0	20.7	4 21	14 4.75	-7 34.2	2.145	3.147	1.5	20.9
5 1	13 55.39	-19 45.6	1.879	2.877	3.6	20.7	5 1	13 57.39	-6 39.0	2.145	3.137	3.9	21.1
5 11	13 46.21	-19 17.1	1.889	2.858	7.1	20.9	5 11	13 50.61	-5 50.8	2.174	3.127	7.3	21.3
5 21	13 38.49	-18 47.7	1.925	2.838	10.7	21.1	5 21	13 45.06	-5 13.3	2.228	3.117	10.5	21.5
5 31	13 32.91	-18 22.2	1.983	2.819	14.0	21.2	5 31	13 41.19	-4 49.1	2.304	3.107	13.3	21.6
<b>24484</b>	Chester		4 22.9 73°03	1°5/21.9	18		<b>259404</b>	2003 QG <sub>26</sub>		4 23.0 206°19	2°3/24.9	16	
3 22	14 27.53	-11 30.0	1.437	2.313	15.0	19.8	3 22	14 29.65	-				