

EPHEMERIDES

9 15.9

9 16.0

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>103355</b>	2000 AY <sub>90</sub>		9 15.9 273°74	6°1/21.7 18			<b>20298</b>	Gordonsu		9 15.9 94°07	4°2/12.3 18		
8 9	0 0.33	+14 45.6	1.991	2.747	16.6	20.0	8 9	0 3.00	-11 40.6	1.750	2.605	14.7	19.0
8 19	23 56.42	+15 22.2	1.890	2.733	14.2	19.8	8 19	23 58.29	-12 27.5	1.691	2.615	11.3	18.8
8 29	23 50.29	+15 39.4	1.808	2.718	11.3	19.6	8 29	23 51.31	-13 18.7	1.654	2.625	7.6	18.6
9 8	23 42.42	+15 35.2	1.748	2.704	8.4	19.4	9 8	23 42.76	-14 7.3	1.642	2.635	4.6	18.5
9 18	23 33.53	+15 9.6	1.713	2.689	6.3	19.2	9 18	23 33.53	-14 46.6	1.656	2.645	4.9	18.5
9 28	23 24.61	+14 25.6	1.705	2.675	6.7	19.2	9 28	23 24.73	-15 10.7	1.698	2.655	8.0	18.7
10 8	23 16.71	+13 29.3	1.722	2.660	9.2	19.3	10 8	23 17.33	-15 16.7	1.765	2.665	11.5	19.0
10 18	23 10.66	+12 28.0	1.765	2.645	12.4	19.5	10 18	23 12.01	-15 4.0	1.854	2.674	14.6	19.2
<b>24497</b>	2001 AE <sub>18</sub>		9 15.9 60°06	2°5/18.3 18			<b>350449</b>	1995 YC <sub>12</sub>		9 15.9 212°75	5°5/ 9.5 18		
8 9	0 1.87	+ 4 52.4	2.192	2.988	14.1	17.8	8 9	23 58.67	-14 41.2	2.059	2.917	12.7	20.8
8 19	23 57.00	+ 5 15.1	2.118	3.000	11.3	17.6	8 19	23 54.84	-16 11.0	1.989	2.912	9.8	20.7
8 29	23 50.29	+ 5 25.3	2.065	3.012	8.1	17.4	8 29	23 49.03	-17 44.8	1.942	2.908	7.1	20.5
9 8	23 42.25	+ 5 23.9	2.037	3.024	4.7	17.3	9 8	23 41.76	-19 14.6	1.922	2.903	5.5	20.4
9 18	23 33.62	+ 5 12.9	2.037	3.036	2.5	17.1	9 18	23 33.77	-20 32.4	1.929	2.899	6.4	20.4
9 28	23 25.23	+ 4 55.8	2.066	3.049	4.4	17.3	9 28	23 25.98	-21 31.5	1.963	2.893	9.0	20.6
10 8	23 17.91	+ 4 37.0	2.123	3.062	7.7	17.5	10 8	23 19.25	-22 8.0	2.023	2.888	11.9	20.8
10 18	23 12.25	+ 4 20.3	2.205	3.074	10.7	17.7	10 18	23 14.27	-22 21.2	2.103	2.882	14.5	20.9
<b>118978</b>	2000 WW <sub>196</sub>		9 15.9 300°00	5°5/10.3 18			<b>169992</b>	2002 TN <sub>247</sub>		9 15.9 50°05	2°7/13.6 18		
8 9	23 59.05	-16 5.8	2.016	2.875	12.8	19.7	8 9	0 0.66	- 7 52.2	1.820	2.670	14.4	20.3
8 19	23 55.26	-17 3.2	1.934	2.858	10.1	19.5	8 19	23 56.47	- 8 26.2	1.751	2.674	11.1	20.1
8 29	23 49.39	-18 2.7	1.874	2.840	7.3	19.3	8 29	23 50.13	- 9 7.5	1.705	2.678	7.3	19.9
9 8	23 41.94	-18 57.4	1.840	2.823	5.6	19.1	9 8	23 42.25	- 9 50.6	1.683	2.681	3.6	19.7
9 18	23 33.68	-19 40.5	1.832	2.805	6.3	19.1	9 18	23 33.66	-10 29.6	1.688	2.686	3.3	19.7
9 28	23 25.56	-20 6.0	1.851	2.788	8.9	19.3	9 28	23 25.38	-10 58.5	1.721	2.690	6.8	19.9
10 8	23 18.51	-20 10.8	1.894	2.771	12.0	19.4	10 8	23 18.36	-11 13.4	1.779	2.694	10.5	20.2
10 18	23 13.27	-19 54.4	1.959	2.754	14.8	19.6	10 18	23 13.27	-11 12.5	1.860	2.698	13.8	20.4
<b>340251</b>	2006 BB <sub>128</sub>		9 15.9 23°52	2°7/13.3 18			<b>151441</b>	2002 GT <sub>16</sub>		9 15.9 122°64	1°2/14.5 18		
8 9	23 52.20	- 1 51.3	1.243	2.116	18.3	19.4	8 9	23 58.01	- 4 12.6	2.515	3.343	11.6	20.6
8 19	23 50.70	- 3 31.2	1.190	2.125	13.9	19.2	8 19	23 53.80	- 4 49.9	2.444	3.354	8.9	20.5
8 29	23 46.64	- 5 31.5	1.156	2.136	9.0	19.0	8 29	23 48.04	- 5 35.0	2.396	3.365	5.8	20.3
9 8	23 40.73	- 7 41.7	1.146	2.148	4.1	18.7	9 8	23 41.22	- 6 23.9	2.375	3.375	2.6	20.1
9 18	23 34.01	- 9 48.5	1.161	2.160	3.8	18.8	9 18	23 33.93	- 7 12.3	2.384	3.385	1.7	20.0
9 28	23 27.71	-11 38.7	1.201	2.174	8.5	19.1	9 28	23 26.85	- 7 55.7	2.421	3.395	4.7	20.3
10 8	23 22.95	-13 2.8	1.264	2.189	13.0	19.4	10 8	23 20.65	- 8 30.1	2.487	3.404	7.8	20.5
10 18	23 20.48	-13 56.8	1.347	2.204	17.0	19.7	10 18	23 15.83	- 8 53.2	2.577	3.413	10.5	20.7
<b>7859</b>	Lhasa		9 15.9 317°76	0°7/15.4 18			<b>48775</b>	1997 QL		9 15.9 263°41	4°4/20.3 18		
8 9	23 58.98	- 2 39.7	1.709	2.552	15.5	17.4	8 9	23 59.89	+10 51.7	1.997	2.775	15.9	19.3
8 19	23 55.49	- 2 54.3	1.623	2.540	12.1	17.2	8 19	23 55.91	+11 12.4	1.906	2.770	13.2	19.1
8 29	23 49.70	- 3 20.9	1.558	2.529	8.1	16.9	8 29	23 49.85	+11 15.0	1.835	2.765	10.0	18.9
9 8	23 42.14	- 3 55.7	1.517	2.517	3.6	16.7	9 8	23 42.19	+10 59.3	1.787	2.759	6.8	18.7
9 18	23 33.63	- 4 33.6	1.503	2.506	1.4	16.5	9 18	23 33.67	+10 26.6	1.765	2.754	4.5	18.5
9 28	23 25.27	- 5 8.3	1.515	2.496	6.0	16.8	9 28	23 25.26	+ 9 41.3	1.770	2.749	5.5	18.6
10 8	23 18.10	- 5 34.0	1.552	2.485	10.4	17.0	10 8	23 17.90	+ 8 49.4	1.802	2.744	8.6	18.8
10 18	23 12.96	- 5 46.8	1.612	2.476	14.3	17.2	10 18	23 12.34	+ 7 57.6	1.859	2.739	11.9	19.0
<b>338737</b>	2003 UK <sub>136</sub>		9 15.9 209°07	3°2/12.7 18			<b>108059</b>	2001 FF <sub>160</sub>		9 16.0 204°15	2°3/18.9 18		
8 9	0 4.08	-11 26.0	2.332	3.168	12.1	21.0	8 9	23 57.93	+ 8 49.4	2.350	3.131	13.7	21.1
8 19	23 58.72	-11 57.9	2.248	3.162	9.4	20.8	8 19	23 54.03	+ 8 17.6	2.254	3.126	11.1	20.9
8 29	23 51.45	-12 33.3	2.188	3.155	6.3	20.6	8 29	23 48.39	+ 7 28.1	2.180	3.121	8.1	20.7
9 8	23 42.81	-13 7.3	2.155	3.148	3.7	20.4	9 8	23 41.47	+ 6 22.7	2.131	3.116	4.8	20.5
9 18	23 33.49	-13 35.1	2.151	3.141	3.8	20.4	9 18	23 33.88	+ 5 5.1	2.110	3.109	2.4	20.3
9 28	23 24.35	-13 52.3	2.176	3.133	6.5	20.6	9 28	23 26.40	+ 3 41.3	2.119	3.103	4.2	20.5
10 8	23 16.23	-13 56.0	2.228	3.124	9.6	20.7	10 8	23 19.78	+ 2 17.8	2.156	3.096	7.5	20.7
10 18	23 9.77	-13 45.3	2.305	3.115	12.4	20.9	10 18	23 14.65	+ 1 0.8	2.220	3.088	10.7	20.9
<b>205380</b>	2001 BT <sub>31</sub>		9 15.9 272°18	4°8/25.7 18			<b>150163</b>	1997 ST <sub>26</sub>		9 16.0 350°79	1°2/15.3 18		
8 9	23 54.67	+23 51.0	4.606	5.248	9.2	19.8	8 9	23 57.33	- 4 15.8	1.106	1.984	19.7	18.8
8 19	23 50.74	+24 23.7	4.496	5.240	8.1	19.7	8 19	23 55.26	- 4 14.7	1.038	1.975	15.4	18.5
8 29	23 45.83	+24 45.0	4.406	5.232	6.9	19.6	8 29	23 50.08	- 4 27.1	0.989	1.967	10.3	18.2
9 8	23 40.19	+24 54.1	4.340	5.224	5.8	19.5	9 8	23 42.48	- 4 48.3	0.959	1.961	4.6	17.9
9 18	23 34.15	+24 50.9	4.300	5.216	5.0	19.5	9 18	23 33.62	- 5 11.6	0.952	1.956	2.0	17.7
9 28	23 28.12	+24 36.3	4.287	5.208	4.8	19.5	9 28	23 25.07	- 5 29.0	0.968	1.953	7.8	18.0
10 8	23 22.50	+24 12.1	4.302	5.200	5.3	19.5	10 8	23 18.33	- 5 33.9	1.006	1.951	13.3	18.3
10 18	23 17.65	+23 41.1	4.344	5.192	6.3	19.6	10 18	23 14.42	- 5 22.6	1.063	1.951	18.1	18.6
<b>39974</b>	1998 HO <sub>3</sub>		9 15.9 61°52	2°6/18.9 18			<b>339147</b>	2004 TY <sub>8</sub>		9 16.0 63°81	0°5/15.7 17		
8 9	23 55.93	+10 4.7	1.633	2.438	17.8	18.6	8 9	0 5.60	- 0 13.3	0.904	1.775	23.7	20.8
8 19	23 53.02	+ 9 13.7	1.565	2.451	14.4	18.4	8 19	0 1.75	- 0 41.2	0.864	1.795	18.3	20.6
8 29	23 47.93	+ 7 57.0	1.516	2.465	10.3	18.2	8 29	23 54.26	- 1 31.8	0.841	1.816	12.2	20.3
9 8	23 41.26	+ 6 18.2	1.491	2.478	6.0	18.0	9 8	23 44.22	- 2 37.4	0.836	1.837	5.4	20.1
9 18	23 33.89	+ 4 24.4	1.491	2.492	2.7	17.8	9 18	23 33.24	- 3 47.0	0.854	1.859	1.6	19.9
9 28	23 26.86	+ 2 25.8	1.520	2.506	5.1	18.0	9 28	23 23.22	- 4 48.4	0.895	1.880	8.1	20.4
10 8	23 21.13	+ 0 33.0	1.575	2.520	9.3	18.3	10 8	23 15.71	- 5 32.3	0.957	1.901	13.9	20.8
10 18	23 17.37	- 1 5.3	1.654	2.535	13.1	18.6	10 18	23 11.54	- 5 54.3	1.038	1.923	18.7	21.2
<b>14161</b>	1998 SO <sub>145</sub>		9 15.9 23°29	1°6/14.8 18			<b>305906</b>	2009 FJ <sub>42</sub>		9 1			

EPHEMERIDES

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>115122</b>	2003 <i>SQ</i> <sub>46</sub>		9 16.0 271°48	1.7°/18.1	18		<b>257134</b>	2008 <i>GY</i> <sub>132</sub>		9 16.0 309°70	0°8/16.9	18	
8 9	23 55.06	+ 8 50.0	1.879	2.680	15.9	19.8	8 9	23 55.25	+ 3 45.3	2.160	2.975	13.7	20.6
8 19	23 52.30	+ 7 41.7	1.783	2.670	12.8	19.5	8 19	23 52.07	+ 3 3.5	2.075	2.973	10.8	20.4
8 29	23 47.49	+ 6 8.0	1.708	2.660	9.1	19.3	8 29	23 47.14	+ 2 5.8	2.012	2.972	7.4	20.2
9 8	23 41.14	+ 4 12.3	1.658	2.650	5.0	19.0	9 8	23 40.92	+ 0 55.8	1.975	2.970	3.7	20.0
9 18	23 33.96	+ 2 1.4	1.636	2.639	1.7	18.8	9 18	23 34.07	- 0 21.7	1.965	2.969	0.9	19.8
9 28	23 26.88	- 0 14.8	1.643	2.629	5.0	19.0	9 28	23 27.37	- 1 40.2	1.983	2.967	4.5	20.0
10 8	23 20.83	- 2 25.4	1.678	2.618	9.2	19.2	10 8	23 21.59	- 2 52.9	2.030	2.966	8.1	20.3
10 18	23 16.55	- 4 20.9	1.739	2.608	13.1	19.4	10 18	23 17.34	- 3 54.7	2.101	2.965	11.4	20.5
<b>191785</b>	2004 <i>TP</i> <sub>124</sub>		9 16.0 47°27	2°0/14.3	18		<b>469598</b>	2004 <i>FY</i> <sub>23</sub>		9 16.0 142°93	0°1/15.9	17	
8 9	0 0.42	- 4 57.4	1.571	2.423	16.2	20.4	8 9	0 5.43	- 1 28.8	1.824	2.648	15.5	21.8
8 19	23 56.63	- 5 34.4	1.504	2.428	12.5	20.2	8 19	0 0.15	- 1 39.7	1.751	2.657	12.0	21.6
8 29	23 50.41	- 6 22.8	1.459	2.432	8.2	19.9	8 29	23 52.60	- 2 2.2	1.700	2.665	8.0	21.3
9 8	23 42.44	- 7 16.8	1.437	2.437	3.7	19.7	9 8	23 43.41	- 2 32.8	1.674	2.672	3.6	21.1
9 18	23 33.66	- 8 9.2	1.441	2.442	2.7	19.6	9 18	23 33.47	- 3 6.8	1.675	2.679	1.0	20.9
9 28	23 25.23	- 8 52.8	1.472	2.447	6.9	19.9	9 28	23 23.85	- 3 38.6	1.705	2.686	5.5	21.2
10 8	23 18.22	- 9 21.9	1.528	2.453	11.2	20.2	10 8	23 15.56	- 4 3.2	1.762	2.692	9.6	21.5
10 18	23 13.39	- 9 33.6	1.606	2.458	14.9	20.4	10 18	23 9.34	- 4 17.2	1.843	2.698	13.2	21.8
<b>401801</b>	2014 <i>HS</i> <sub>129</sub>		9 16.0 164°33	9°6/ 3.3	18		<b>512024</b>	2015 <i>MH</i> <sub>7</sub>		9 16.0 186°60	4°7/10.2	18	
8 9	0 7.52	-36 2.9	2.562	3.375	11.8	21.8	8 9	23 58.79	-12 54.5	2.178	3.030	12.3	21.6
8 19	0 1.35	-37 21.1	2.522	3.381	10.5	21.7	8 19	23 54.80	-14 21.5	2.107	3.030	9.4	21.5
8 29	23 53.15	-38 26.8	2.505	3.386	9.7	21.7	8 29	23 48.94	-15 53.2	2.061	3.029	6.6	21.3
9 8	23 43.55	-39 13.0	2.512	3.390	9.7	21.7	9 8	23 41.74	-17 22.5	2.042	3.028	4.8	21.2
9 18	23 33.41	-39 34.7	2.543	3.394	10.4	21.7	9 18	23 33.88	-18 41.9	2.051	3.027	5.6	21.2
9 28	23 23.70	-39 29.4	2.599	3.398	11.7	21.8	9 28	23 26.21	-19 44.9	2.088	3.025	8.1	21.4
10 8	23 15.31	-38 58.1	2.675	3.400	13.1	22.0	10 8	23 19.55	-20 27.5	2.151	3.023	11.0	21.6
10 18	23 8.85	-38 3.9	2.770	3.403	14.4	22.1	10 18	23 14.54	-20 48.5	2.236	3.020	13.6	21.7
<b>288029</b>	2003 <i>UY</i> <sub>235</sub>		9 16.0 30°53	0°6/16.4	18		<b>218800</b>	2006 <i>BN</i> <sub>43</sub>		9 16.0 248°10	2°8/12.5	18	
8 9	0 5.91	- 2 26.1	1.336	2.184	18.8	19.7	8 9	23 56.98	- 9 15.7	2.507	3.350	11.2	20.2
8 19	0 1.12	- 1 53.8	1.279	2.196	14.7	19.5	8 19	23 53.19	-10 7.9	2.421	3.340	8.5	20.0
8 29	23 53.49	- 1 33.0	1.241	2.210	9.9	19.2	8 29	23 47.78	-11 6.0	2.359	3.330	5.7	19.8
9 8	23 43.84	- 1 21.1	1.226	2.225	4.6	19.0	9 8	23 41.20	-12 5.1	2.324	3.320	3.2	19.7
9 18	23 33.34	- 1 14.7	1.236	2.240	1.1	18.8	9 18	23 34.01	-13 0.2	2.318	3.309	3.4	19.7
9 28	23 23.42	- 1 9.2	1.271	2.256	6.2	19.2	9 28	23 26.93	-13 46.1	2.340	3.298	6.1	19.8
10 8	23 15.32	- 1 0.1	1.332	2.273	11.0	19.5	10 8	23 20.67	-14 19.0	2.389	3.287	9.0	20.0
10 18	23 9.86	- 0 44.2	1.414	2.291	15.1	19.8	10 18	23 15.78	-14 36.8	2.463	3.276	11.6	20.1
<b>212192</b>	2005 <i>GL</i> <sub>102</sub>		9 16.0 213°14	0°8/17.0	18		<b>246231</b>	2007 <i>RC</i> <sub>241</sub>		9 16.0 33°98	9°9/24.8	18	
8 9	23 57.97	+ 3 44.1	2.367	3.171	13.0	21.6	8 9	0 3.01	+21 18.0	1.715	2.439	20.0	20.0
8 19	23 54.04	+ 3 5.5	2.273	3.164	10.3	21.4	8 19	23 58.85	+22 41.2	1.638	2.445	17.6	19.8
8 29	23 48.40	+ 2 12.2	2.200	3.157	7.1	21.2	8 29	23 52.10	+23 40.0	1.578	2.450	14.9	19.7
9 8	23 41.48	+ 1 7.1	2.154	3.149	3.5	21.0	9 8	23 43.33	+24 10.0	1.538	2.456	12.3	19.5
9 18	23 33.90	- 0 5.4	2.137	3.141	0.9	20.8	9 18	23 33.47	+24 8.7	1.520	2.462	10.4	19.4
9 28	23 26.42	- 1 19.6	2.149	3.132	4.3	21.0	9 28	23 23.76	+23 38.1	1.526	2.469	10.0	19.4
10 8	23 19.79	- 2 29.2	2.189	3.123	7.8	21.2	10 8	23 15.41	+22 44.8	1.556	2.476	11.4	19.5
10 18	23 14.62	- 3 29.3	2.256	3.113	11.0	21.4	10 18	23 9.37	+21 37.8	1.609	2.483	13.7	19.7
<b>510048</b>	2010 <i>EK</i> <sub>72</sub>		9 16.0 22°93	0°3/15.8	18		<b>83981</b>	2002 <i>EJ</i> <sub>22</sub>		9 16.0 272°61	1°5/12.9	16	
8 9	0 11.14	- 4 58.7	1.750	2.575	16.0	21.3	8 9	23 51.17	- 9 40.3	4.463	5.296	6.8	20.0
8 19	0 4.75	- 4 27.6	1.670	2.576	12.5	21.1	8 19	23 47.98	-10 8.4	4.380	5.295	5.2	19.9
8 29	23 55.78	- 4 2.7	1.611	2.576	8.4	20.9	8 29	23 43.96	-10 38.7	4.324	5.293	3.4	19.7
9 8	23 44.88	- 3 41.5	1.578	2.577	3.8	20.6	9 8	23 39.37	-11 9.1	4.295	5.291	1.8	19.6
9 18	23 33.06	- 3 21.5	1.573	2.577	1.1	20.4	9 18	23 34.50	-11 37.2	4.296	5.289	1.9	19.6
9 28	23 21.56	- 2 59.7	1.597	2.578	5.8	20.7	9 28	23 29.71	-12 1.0	4.327	5.287	3.5	19.7
10 8	23 11.55	- 2 33.5	1.649	2.579	10.2	21.0	10 8	23 25.34	-12 18.5	4.387	5.285	5.2	19.9
10 18	23 3.89	- 2 1.2	1.725	2.579	14.0	21.2	10 18	23 21.69	-12 28.6	4.473	5.283	6.8	20.0
<b>319352</b>	2006 <i>CN</i> <sub>39</sub>		9 16.0 166°08	1°4/17.9	18		<b>451209</b>	2009 <i>VZ</i> <sub>77</sub>		9 16.0 346°59	14°7/28.9	17	
8 9	23 56.62	+ 4 58.5	2.788	3.579	11.5	21.3	8 9	0 5.79	-44 11.3	1.834	2.645	15.9	20.3
8 19	23 52.67	+ 4 40.9	2.700	3.582	9.2	21.1	8 19	0 1.19	-45 42.5	1.801	2.637	15.0	20.2
8 29	23 47.30	+ 4 11.4	2.636	3.585	6.4	21.0	8 29	23 53.59	-46 51.9	1.785	2.629	14.7	20.2
9 8	23 40.93	+ 3 32.1	2.597	3.587	3.5	20.8	9 8	23 43.89	-47 29.7	1.790	2.622	15.1	20.2
9 18	23 34.06	+ 2 45.7	2.587	3.589	1.4	20.6	9 18	23 33.39	-47 29.5	1.813	2.616	15.9	20.2
9 28	23 27.33	+ 1 56.3	2.607	3.591	3.5	20.8	9 28	23 23.58	-46 49.4	1.854	2.610	17.2	20.3
10 8	23 21.33	+ 1 8.2	2.656	3.593	6.4	21.0	10 8	23 15.75	-45 32.5	1.912	2.606	18.5	20.4
10 18	23 16.56	+ 0 25.3	2.731	3.594	9.1	21.2	10 18	23 10.66	-43 44.6	1.984	2.602	19.8	20.6
<b>517940</b>	2015 <i>TZ</i> <sub>276</sub>		9 16.0 4°32	1°6/17.5	18		<b>399949</b>	2006 <i>AM</i> <sub>39</sub>		9 16.0 227°41	4°1/10.8	18	
8 9	23 58.78	+ 2 41.6	1.822	2.645	15.5	20.7	8 9	23 56.93	-13 5.0	2.364	3.216	11.4	21.1
8 19	23 55.11	+ 2 48.4	1.744	2.645	12.3	20.5	8 19	23 53.22	-14 10.9	2.291	3.214	8.8	20.9
8 29	23 49.31	+ 2 41.0	1.686	2.645	8.6	20.2	8 29	23 47.82	-15 20.5	2.243	3.211	6.1	20.8
9 8	23 41.95	+ 2 21.5	1.652	2.646	4.5	20.0	9 8	23 41.22	-16 27.7	2.221	3.209	4.3	20.6
9 18	23 33.80	+ 1 53.2	1.644	2.647	1.7	19.8	9 18	23 34.04	-17 26.6	2.227	3.206	4.9	20.7
9 28	23 25.87	+ 1 21.2	1.664	2.649	4.9	20.0	9 28	23 27.03	-18 11.9	2.261	3.203	7.3	20.8
10 8	23 19.10	+ 0 51.1	1.709	2.652	9.0	20.3	10 8	23 20.93	-18 40.3	2.320	3.200	10.0	21.0
10 18	23 14.21	+ 0 27.7	1.779	2.654	12.6	20.5	10 18	23 16.30	-18 50.6	2.403	3.197	12.5	21.2
<b>65111</b>	2002 <i>CG</i> <sub>40</sub>		9 16.0 157°13	3°3/23.1	18		<b>378623</b>	2008 <i>FY</i> <sub></sub>					

EPHEMERIDES

9 16.0

9 16.0

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>97833</b>	2000 <i>PF</i> <sub>6</sub>		9 16.0 331°14	5°8/12.5 18			<b>261605</b>	2005 <i>XF</i> <sub>87</sub>		9 16.0 204°71	2°2/13.1 18		
8 9	23 58.69	-11 40.2	1.028	1.921	19.7	18.5	8 9	23 58.14	- 8 35.8	2.900	3.732	10.1	22.4
8 19	23 56.78	-12 17.5	0.958	1.903	15.4	18.2	8 19	23 53.82	- 9 15.7	2.814	3.727	7.7	22.3
8 29	23 51.40	-13 3.3	0.905	1.885	10.6	17.8	8 29	23 48.07	-10 0.4	2.753	3.722	5.1	22.1
9 8	23 43.23	-13 47.7	0.872	1.869	6.5	17.6	9 8	23 41.31	-10 46.0	2.720	3.716	2.7	21.9
9 18	23 33.50	-14 19.9	0.861	1.854	6.8	17.5	9 18	23 34.05	-11 28.6	2.716	3.710	2.6	21.9
9 28	23 24.00	-14 29.7	0.871	1.840	11.4	17.7	9 28	23 26.91	-12 4.2	2.742	3.704	5.1	22.1
10 8	23 16.47	-14 11.8	0.901	1.828	16.6	18.0	10 8	23 20.49	-12 29.8	2.796	3.697	7.7	22.2
10 18	23 12.10	-13 26.2	0.948	1.818	21.4	18.2	10 18	23 15.29	-12 43.4	2.875	3.689	10.1	22.4
<b>381421</b>	2008 <i>LZ</i> <sub>10</sub>		9 16.0 71°99	7°8/ 9.6 17			<b>23191</b>	Sujaytyle		9 16.0 288°12	0°2/16.2 18		
8 9	0 4.39	-18 15.8	1.453	2.322	16.4	20.8	8 9	23 58.34	+ 0 0.6	2.063	2.889	13.9	18.9
8 19	23 59.70	-19 42.7	1.417	2.343	12.8	20.7	8 19	23 54.71	- 0 17.6	1.963	2.869	10.9	18.6
8 29	23 52.37	-21 7.2	1.402	2.365	9.6	20.5	8 29	23 49.09	- 0 48.4	1.885	2.850	7.4	18.4
9 8	23 43.27	-22 18.8	1.410	2.386	7.8	20.5	9 8	23 41.92	- 1 29.1	1.832	2.830	3.5	18.1
9 18	23 33.57	-23 8.5	1.443	2.407	8.7	20.6	9 18	23 33.89	- 2 15.5	1.806	2.810	0.8	17.9
9 28	23 24.55	-23 30.5	1.501	2.428	11.4	20.8	9 28	23 25.88	- 3 1.9	1.808	2.790	5.0	18.1
10 8	23 17.33	-23 24.1	1.582	2.449	14.5	21.1	10 8	23 18.80	- 3 42.8	1.837	2.771	9.0	18.3
10 18	23 12.56	-22 52.1	1.681	2.470	17.2	21.3	10 18	23 13.39	- 4 13.5	1.890	2.751	12.6	18.5
<b>315121</b>	2007 <i>EW</i> <sub>79</sub>		9 16.0 181°61	0°4/15.5 18			<b>433966</b>	1999 <i>TV</i> <sub>29</sub>		9 16.0 356°14	2°2/17.9 16		
8 9	0 0.46	- 3 2.3	2.590	3.408	11.6	20.8	8 9	23 46.94	+ 5 21.2	1.044	1.916	21.1	19.5
8 19	23 55.72	- 3 13.0	2.505	3.408	9.0	20.7	8 19	23 47.25	+ 5 5.3	0.978	1.906	17.0	19.3
8 29	23 49.38	- 3 31.1	2.444	3.408	5.9	20.5	8 29	23 44.77	+ 4 20.3	0.928	1.899	12.0	19.0
9 8	23 41.91	- 3 53.9	2.409	3.408	2.6	20.3	9 8	23 40.12	+ 3 9.4	0.898	1.894	6.4	18.6
9 18	23 33.88	- 4 18.1	2.404	3.408	1.0	20.1	9 18	23 34.34	+ 1 40.5	0.888	1.892	2.2	18.4
9 28	23 26.01	- 4 40.2	2.429	3.407	4.3	20.4	9 28	23 28.82	+ 0 5.9	0.901	1.892	6.6	18.7
10 8	23 18.99	- 4 56.7	2.482	3.406	7.5	20.6	10 8	23 24.91	- 1 20.7	0.935	1.893	12.2	19.0
10 18	23 13.37	- 5 5.3	2.560	3.405	10.3	20.8	10 18	23 23.55	- 2 29.0	0.989	1.898	17.1	19.3
<b>27292</b>	2000 <i>AC</i> <sub>130</sub>		9 16.0 65°69	5°1/20.2 18			<b>208418</b>	2001 <i>SJ</i> <sub>302</sub>		9 16.0 334°67	1°3/16.9 18		
8 9	0 4.90	+10 40.6	1.439	2.235	20.2	17.9	8 9	23 58.74	+ 1 40.5	1.111	1.971	20.9	20.5
8 19	0 0.15	+11 7.3	1.385	2.260	16.5	17.8	8 19	23 56.46	+ 1 41.1	1.039	1.963	16.6	20.2
8 29	23 52.75	+11 9.9	1.350	2.286	12.4	17.6	8 29	23 51.00	+ 1 20.2	0.984	1.955	11.5	19.9
9 8	23 43.50	+10 48.8	1.336	2.312	8.1	17.4	9 8	23 43.00	+ 0 40.9	0.949	1.948	5.7	19.6
9 18	23 33.50	+10 7.3	1.346	2.338	5.2	17.3	9 18	23 33.62	- 0 10.9	0.937	1.941	1.5	19.3
9 28	23 24.07	+ 9 12.1	1.382	2.363	6.4	17.5	9 28	23 24.47	- 1 5.4	0.948	1.935	7.1	19.6
10 8	23 16.37	+ 8 12.3	1.444	2.389	10.0	17.7	10 8	23 17.11	- 1 52.5	0.980	1.930	12.9	19.9
10 18	23 11.13	+ 7 16.0	1.528	2.414	13.6	18.0	10 18	23 12.67	- 2 24.7	1.033	1.926	18.0	20.2
<b>518793</b>	2010 <i>BY</i> <sub>73</sub>		9 16.0 215°50	3°8/20.5 18			<b>55633</b>	2002 <i>TU</i> <sub>283</sub>		9 16.0 40°97	1°5/15.1 18		
8 9	23 58.68	+12 37.3	2.304	3.063	14.5	22.2	8 9	0 4.40	- 4 55.6	1.303	2.160	18.6	18.4
8 19	23 54.73	+12 22.5	2.204	3.056	12.1	22.0	8 19	0 0.11	- 5 2.1	1.244	2.169	14.4	18.2
8 29	23 48.95	+11 48.2	2.124	3.048	9.2	21.8	8 29	23 52.93	- 5 19.9	1.205	2.178	9.5	17.9
9 8	23 41.80	+10 55.0	2.068	3.039	6.1	21.6	9 8	23 43.67	- 5 43.7	1.188	2.188	4.2	17.7
9 18	23 33.90	+ 9 45.5	2.040	3.030	3.9	21.4	9 18	23 33.50	- 6 7.3	1.195	2.198	2.2	17.5
9 28	23 26.08	+ 8 24.7	2.040	3.021	4.8	21.5	9 28	23 23.85	- 6 23.9	1.228	2.209	7.2	17.9
10 8	23 19.14	+ 6 59.5	2.069	3.010	7.7	21.6	10 8	23 16.01	- 6 28.6	1.285	2.220	12.0	18.2
10 18	23 13.76	+ 5 37.0	2.124	2.999	10.8	21.8	10 18	23 10.83	- 6 18.9	1.364	2.231	16.2	18.5
<b>212551</b>	2006 <i>SL</i> <sub>30</sub>		9 16.0 93°16	3°0/19.0 18			<b>363463</b>	2003 <i>SC</i> <sub>257</sub>		9 16.0 347°73	0°3/16.3 18		
8 9	23 58.90	+ 7 48.6	1.962	2.758	15.5	20.9	8 9	23 52.96	+ 2 1.0	1.837	2.673	14.9	20.3
8 19	23 55.08	+ 7 47.8	1.881	2.761	12.6	20.7	8 19	23 50.65	+ 1 19.3	1.755	2.666	11.7	20.1
8 29	23 49.25	+ 7 29.3	1.819	2.764	9.2	20.5	8 29	23 46.39	+ 0 20.6	1.693	2.660	7.9	19.8
9 8	23 41.93	+ 6 54.5	1.782	2.766	5.5	20.3	9 8	23 40.68	- 0 51.0	1.656	2.654	3.7	19.6
9 18	23 33.87	+ 6 6.6	1.771	2.769	3.0	20.2	9 18	23 34.22	- 2 9.6	1.645	2.650	0.8	19.3
9 28	23 26.01	+ 5 10.9	1.787	2.772	4.8	20.3	9 28	23 27.91	- 3 27.6	1.662	2.646	5.2	19.6
10 8	23 19.23	+ 4 14.1	1.831	2.774	8.4	20.5	10 8	23 22.63	- 4 37.4	1.704	2.642	9.3	19.9
10 18	23 14.22	+ 3 22.1	1.900	2.777	11.8	20.7	10 18	23 19.08	- 5 33.4	1.771	2.640	12.9	20.1
<b>444098</b>	2004 <i>TC</i> <sub>36</sub>		9 16.0 265°64	3°5/12.3 17			<b>189944</b>	Leblanc		9 16.0 337°88	5°2/22.1 18		
8 9	0 2.01	-13 3.0	2.527	3.366	11.2	21.4	8 9	23 57.34	+15 7.3	2.314	3.061	14.8	20.0
8 19	23 57.11	-13 32.3	2.432	3.347	8.7	21.2	8 19	23 53.69	+15 29.8	2.222	3.059	12.5	19.8
8 29	23 50.44	-14 3.9	2.361	3.327	6.0	21.0	8 29	23 48.25	+15 34.1	2.151	3.057	9.9	19.6
9 8	23 42.44	-14 33.4	2.316	3.307	3.8	20.9	9 8	23 41.48	+15 19.6	2.102	3.056	7.3	19.5
9 18	23 33.75	-14 56.2	2.301	3.287	4.0	20.9	9 18	23 34.02	+14 47.1	2.078	3.054	5.5	19.4
9 28	23 25.14	-15 8.3	2.314	3.266	6.5	21.0	9 28	23 26.65	+14 0.1	2.082	3.053	5.7	19.4
10 8	23 17.38	-15 6.9	2.355	3.246	9.4	21.1	10 8	23 20.17	+13 3.8	2.113	3.051	7.8	19.5
10 18	23 11.13	-14 51.3	2.420	3.225	12.1	21.3	10 18	23 15.22	+12 4.6	2.170	3.050	10.4	19.7
<b>353738</b>	2011 <i>YP</i>		9 16.0 251°13	1°9/11.9 18			<b>433295</b>	2013 <i>CV</i> <sub>209</sub>		9 16.0 328°76	1°6/19.1 16		
8 9	23 50.47	-11 26.1	4.611	5.449	6.5	20.3	8 9	23 51.44	+ 6 59.4	4.073	4.847	8.5	21.1
8 19	23 47.45	-12 2.7	4.527	5.444	5.0	20.2	8 19	23 48.31	+ 6 53.4	3.976	4.843	6.8	20.9
8 29	23 43.62	-12 41.2	4.470	5.438	3.3	20.1	8 29	23 44.25	+ 6 38.8	3.902	4.840	4.9	20.8
9 8	23 39.22	-13 19.1	4.441	5.433	2.0	20.0	9 8	23 39.55	+ 6 16.8	3.855	4.837	3.0	20.7
9 18	23 34.56	-13 54.0	4.441	5.427	2.2	20.0	9 18	23 34.51	+ 5 48.9	3.837	4.834	1.6	20.6
9 28	23 29.96	-14 23.8	4.471	5.422	3.7	20.1	9 28	23 29.54	+ 5 17.3	3.848	4.831	2.6	20.6
10 8	23 25.76	-14 46.5	4.530	5.416	5.3	20.2	10 8	23 25.02	+ 4 44.6	3.889	4.828	4.5	20.8
10 18	23 22.24	-15 1.0	4.614	5.411	6.9	20.3	10 18	23 21.26	+ 4 13.4	3.958	4.825	6.4	20.9
<b>20538</b>	1999 <i>RN</i> <sub>84</sub>		9 16.0 41°51	2°5/17.9 18			<b>249029</b>	2007 <i>SZ</i> <sub>6</sub>		9 16.0 37°98	7°0/2		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>6139</b>	Naomi		9 16.0 160°87	6°0/22.9 18			<b>345432</b>	2006 DQ <sub>93</sub>		9 16.0 126°92	0°1/16.2 16		
8 9	0 0.85	+17 51.6	2.306	3.029	15.4	17.3	8 9	23 59.42	+ 1 21.0	1.972	2.793	14.6	21.7
8 19	23 56.40	+18 13.0	2.217	3.034	13.2	17.1	8 19	23 55.38	+ 0 40.8	1.899	2.803	11.4	21.5
8 29	23 50.05	+18 14.4	2.148	3.039	10.7	16.9	8 29	23 49.39	- 0 13.9	1.848	2.812	7.6	21.3
9 8	23 42.31	+17 54.6	2.101	3.043	8.1	16.8	9 8	23 42.00	- 1 19.2	1.823	2.821	3.5	21.1
9 18	23 33.84	+17 14.5	2.080	3.047	6.2	16.7	9 18	23 33.97	- 2 29.3	1.825	2.829	0.8	20.9
9 28	23 25.52	+16 17.6	2.087	3.050	6.2	16.7	9 28	23 26.20	- 3 37.4	1.855	2.837	5.0	21.2
10 8	23 18.18	+15 9.7	2.121	3.053	8.1	16.8	10 8	23 19.54	- 4 37.2	1.913	2.845	8.9	21.5
10 18	23 12.48	+13 57.8	2.181	3.055	10.6	17.0	10 18	23 14.63	- 5 24.2	1.995	2.852	12.2	21.7
<b>477536</b>	2010 EF <sub>123</sub>		9 16.0 46°12	4°3/12.2 18			<b>30902</b>	1993 FF <sub>35</sub>		9 16.0 236°89	0°8/15.1 18		
8 9	0 0.12	-10 48.6	1.621	2.484	15.3	20.8	8 9	23 57.89	- 2 20.2	2.274	3.102	12.6	18.6
8 19	23 56.28	-11 43.2	1.565	2.493	11.7	20.6	8 19	23 54.07	- 2 55.5	2.186	3.096	9.8	18.4
8 29	23 50.13	-12 43.5	1.530	2.503	7.9	20.4	8 29	23 48.48	- 3 41.4	2.121	3.089	6.5	18.2
9 8	23 42.34	-13 42.1	1.519	2.513	4.7	20.2	9 8	23 41.60	- 4 34.0	2.083	3.082	2.9	17.9
9 18	23 33.86	-14 31.2	1.534	2.524	5.1	20.3	9 18	23 34.07	- 5 28.6	2.072	3.075	1.4	17.8
9 28	23 25.79	-15 4.4	1.575	2.534	8.3	20.5	9 28	23 26.65	- 6 19.8	2.091	3.068	5.0	18.1
10 8	23 19.14	-15 18.0	1.641	2.545	11.9	20.7	10 8	23 20.13	- 7 2.6	2.136	3.061	8.5	18.3
10 18	23 14.61	-15 11.3	1.728	2.556	15.1	21.0	10 18	23 15.13	- 7 33.4	2.207	3.053	11.6	18.5
<b>349871</b>	2009 DO <sub>65</sub>		9 16.0 194°87	5°4/10.3 18			<b>340201</b>	2006 AB <sub>15</sub>		9 16.0 2°10	8°7/22.6 18		
8 9	0 3.86	-18 4.6	2.299	3.143	12.0	21.4	8 9	0 2.66	+16 18.7	1.537	2.303	20.3	20.7
8 19	23 58.61	-18 54.7	2.227	3.141	9.4	21.2	8 19	23 58.84	+17 35.9	1.458	2.302	17.6	20.4
8 29	23 51.43	-19 44.1	2.180	3.139	7.0	21.1	8 29	23 52.27	+18 30.1	1.396	2.302	14.4	20.2
9 8	23 42.89	-20 26.5	2.159	3.136	5.4	21.0	9 8	23 43.52	+18 57.3	1.355	2.302	11.2	20.1
9 18	23 33.72	-20 56.5	2.166	3.133	6.0	21.0	9 18	23 33.57	+18 55.6	1.336	2.302	9.0	19.9
9 28	23 24.80	-21 9.6	2.201	3.129	8.3	21.2	9 28	23 23.74	+18 27.3	1.341	2.303	9.1	20.0
10 8	23 16.98	-21 4.1	2.261	3.125	10.9	21.3	10 8	23 15.36	+17 39.8	1.370	2.305	11.3	20.1
10 18	23 10.88	-20 40.3	2.345	3.120	13.3	21.5	10 18	23 9.43	+16 42.3	1.421	2.307	14.5	20.3
<b>268920</b>	2007 CH <sub>43</sub>		9 16.0 198°11	5°2/21.3 18			<b>344791</b>	2003 YQ <sub>79</sub>		9 16.0 257°75	5°3/10.3 18		
8 9	0 2.13	+14 16.9	2.104	2.854	16.0	21.1	8 9	23 59.83	-14 45.3	2.046	2.902	12.8	21.2
8 19	23 57.62	+14 31.2	2.010	2.852	13.5	20.9	8 19	23 55.87	-15 55.7	1.966	2.889	10.0	21.0
8 29	23 51.00	+14 25.5	1.935	2.848	10.5	20.7	8 29	23 49.85	-17 9.8	1.908	2.875	7.2	20.8
9 8	23 42.79	+13 59.0	1.883	2.844	7.5	20.5	9 8	23 42.28	-18 20.4	1.877	2.861	5.3	20.7
9 18	23 33.73	+13 12.9	1.857	2.839	5.3	20.3	9 18	23 33.90	-19 20.2	1.873	2.847	6.1	20.7
9 28	23 24.75	+12 11.6	1.859	2.833	5.9	20.4	9 28	23 25.66	-20 2.8	1.896	2.833	8.8	20.8
10 8	23 16.81	+11 1.7	1.889	2.827	8.5	20.5	10 8	23 18.48	-20 24.4	1.944	2.818	11.8	21.0
10 18	23 10.66	+ 9 50.6	1.944	2.820	11.6	20.7	10 18	23 13.09	-20 24.0	2.013	2.804	14.7	21.2
<b>199426</b>	2006 DE <sub>8</sub>		9 16.0 330°52	1°5/14.7 18			<b>225528</b>	2000 RY <sub>89</sub>		9 16.0 269°89	2°5/18.2 18		
8 9	23 57.33	- 2 45.7	1.553	2.406	16.3	19.3	8 9	0 0.32	+ 5 31.4	1.729	2.541	16.6	20.2
8 19	23 54.42	- 3 28.8	1.477	2.400	12.6	19.1	8 19	23 56.57	+ 5 32.3	1.643	2.536	13.4	20.0
8 29	23 49.11	- 4 26.9	1.420	2.394	8.3	18.8	8 29	23 50.48	+ 5 15.2	1.577	2.530	9.6	19.7
9 8	23 41.98	- 5 34.4	1.388	2.389	3.7	18.6	9 8	23 42.62	+ 4 41.8	1.534	2.524	5.4	19.5
9 18	23 33.93	- 6 43.7	1.381	2.383	2.2	18.4	9 18	23 33.81	+ 3 55.5	1.517	2.519	2.5	19.3
9 28	23 26.08	- 7 46.4	1.400	2.378	6.8	18.7	9 28	23 25.14	+ 3 2.4	1.527	2.513	5.3	19.5
10 8	23 19.54	- 8 35.0	1.444	2.374	11.3	19.0	10 8	23 17.68	+ 2 9.7	1.564	2.507	9.5	19.7
10 18	23 15.14	- 9 5.2	1.510	2.370	15.3	19.2	10 18	23 12.26	+ 1 24.0	1.624	2.502	13.4	19.9
<b>154961</b>	2004 TC <sub>214</sub>		9 16.0 118°63	0°7/15.2 18			<b>205167</b>	2000 AR <sub>196</sub>		9 16.0 239°03	2°8/12.5 18		
8 9	23 59.10	- 3 20.0	2.313	3.141	12.5	20.3	8 9	23 58.41	- 7 15.9	2.371	3.210	11.9	21.0
8 19	23 54.87	- 3 39.2	2.234	3.143	9.6	20.2	8 19	23 54.49	- 8 29.6	2.277	3.194	9.1	20.8
8 29	23 48.93	- 4 6.9	2.178	3.145	6.4	20.0	8 29	23 48.81	- 9 52.8	2.207	3.178	6.0	20.6
9 8	23 41.76	- 4 39.8	2.148	3.147	2.8	19.7	9 8	23 41.78	-11 19.7	2.165	3.161	3.3	20.4
9 18	23 34.00	- 5 13.7	2.146	3.149	1.3	19.6	9 18	23 34.03	-12 43.9	2.151	3.143	3.5	20.4
9 28	23 26.44	- 5 44.3	2.173	3.151	4.8	19.9	9 28	23 26.32	-13 58.8	2.167	3.125	6.5	20.5
10 8	23 19.81	- 6 7.6	2.227	3.153	8.1	20.1	10 8	23 19.44	-14 58.9	2.210	3.106	9.7	20.7
10 18	23 14.70	- 6 20.8	2.307	3.155	11.1	20.3	10 18	23 14.03	-15 41.1	2.278	3.087	12.6	20.9
<b>231620</b>	2009 SY <sub>128</sub>		9 16.0 291°00	0°8/14.6 18			<b>366040</b>	2012 BN <sub>152</sub>		9 16.0 217°26	1°1/17.5 18		
8 9	23 51.18	- 4 55.5	4.254	5.076	7.3	20.3	8 9	23 56.93	+ 3 59.5	2.626	3.424	12.0	21.7
8 19	23 48.08	- 5 19.8	4.159	5.067	5.6	20.2	8 19	23 53.09	+ 3 36.9	2.532	3.419	9.5	21.5
8 29	23 44.09	- 5 48.5	4.090	5.058	3.6	20.0	8 29	23 47.72	+ 3 1.9	2.460	3.413	6.6	21.3
9 8	23 39.48	- 6 19.4	4.049	5.048	1.6	19.9	9 8	23 41.23	+ 2 16.6	2.414	3.407	3.5	21.1
9 18	23 34.57	- 6 50.4	4.037	5.039	1.1	19.8	9 18	23 34.17	+ 1 24.3	2.397	3.400	1.2	20.9
9 28	23 29.71	- 7 18.9	4.056	5.030	3.0	20.0	9 28	23 27.20	+ 0 29.6	2.409	3.393	3.8	21.1
10 8	23 25.27	- 7 43.0	4.104	5.020	5.0	20.1	10 8	23 20.98	+ 0 22.9	2.450	3.386	7.0	21.3
10 18	23 21.57	- 8 0.8	4.178	5.011	6.9	20.2	10 18	23 16.06	- 1 8.9	2.518	3.379	9.9	21.5
<b>187489</b>	2006 SN <sub>206</sub>		9 16.0 295°48	1°9/17.7 18			<b>324270</b>	2006 BB <sub>275</sub>		9 16.0 238°31	0°7/16.8 18		
8 9	23 57.50	+ 5 38.6	1.455	2.284	18.4	20.6	8 9	23 58.16	+ 1 21.2	2.572	3.379	11.9	21.6
8 19	23 54.81	+ 5 12.5	1.371	2.275	14.8	20.3	8 19	23 54.08	+ 1 8.4	2.477	3.372	9.4	21.4
8 29	23 49.54	+ 4 22.8	1.306	2.266	10.4	20.0	8 29	23 48.40	+ 0 45.0	2.405	3.364	6.4	21.2
9 8	23 42.25	+ 3 12.0	1.264	2.258	5.6	19.7	9 8	23 41.55	+ 0 13.3	2.360	3.355	3.1	21.0
9 18	23 33.87	+ 1 46.2	1.246	2.249	1.9	19.5	9 18	23 34.10	- 0 23.5	2.343	3.347	0.8	20.8
9 28	23 25.62	+ 0 14.9	1.254	2.241	5.9	19.7	9 28	23 26.73	- 1 1.5	2.355	3.338	4.0	21.0
10 8	23 18.73	- 1 11.2	1.287	2.232	10.9	20.0	10 8	23 20.14	- 1 36.4	2.396	3.329	7.2	21.2
10 18	23 14.14	- 2 23.4	1.342	2.224	15.4	20.2	10 18	23 14.90	- 2 4.6	2.462	3.320	10.2	21.4
<b>24556</b>	3514 P-L		9 16.0 342°93	5°9/21.0 18			<b>130409</b>	2000 OB <sub>33</sub>		9 16.0 349°60	2°8/18.1 18		
8 9	23 59.21	+											

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>101306</b>	1998 <i>SM</i> <sub>133</sub>		9 16.0 271°47	1°7/17.6	18		<b>485250</b>	2010 <i>VX</i> <sub>136</sub>		9 16.1 247°47	9°6/29.5	17	
8 9	23 59.57	+ 4 43.9	1.716	2.533	16.5	19.9	8 9	0 3.44	+33 58.1	3.101	3.663	14.4	21.7
8 19	23 56.17	+ 4 24.0	1.616	2.513	13.3	19.6	8 19	23 58.45	+35 10.0	2.987	3.647	13.4	21.6
8 29	23 50.38	+ 3 44.4	1.535	2.493	9.4	19.3	8 29	23 51.56	+36 3.7	2.890	3.630	12.2	21.4
9 8	23 42.66	+ 2 47.0	1.478	2.472	5.0	19.0	9 8	23 43.13	+36 35.4	2.812	3.613	11.0	21.3
9 18	23 33.80	+ 1 36.4	1.447	2.451	1.7	18.8	9 18	23 33.74	+36 42.5	2.756	3.596	10.1	21.2
9 28	23 24.91	+ 0 20.0	1.444	2.429	5.5	19.0	9 28	23 24.18	+36 24.5	2.723	3.578	9.6	21.2
10 8	23 17.13	- 0 53.5	1.466	2.407	10.2	19.2	10 8	23 15.32	+35 43.6	2.715	3.560	9.9	21.2
10 18	23 11.41	- 1 56.5	1.512	2.385	14.5	19.4	10 18	23 7.88	+34 44.5	2.731	3.541	10.7	21.2
<b>190245</b>	2007 <i>EW</i> <sub>74</sub>		9 16.0 85°29	0°4/16.5	18		<b>386367</b>	2008 <i>TS</i> <sub>127</sub>		9 16.1 213°58	3°2/19.3	18	R
8 9	23 57.74	+ 1 11.4	2.373	3.187	12.6	20.9	8 9	23 59.86	+ 8 55.8	2.005	2.792	15.5	21.2
8 19	23 53.70	+ 0 45.1	2.304	3.203	9.8	20.8	8 19	23 55.91	+ 8 50.3	1.914	2.787	12.7	21.0
8 29	23 48.08	+ 0 7.5	2.258	3.219	6.6	20.6	8 29	23 49.90	+ 8 26.3	1.843	2.783	9.4	20.8
9 8	23 41.36	- 0 38.2	2.238	3.235	3.1	20.4	9 8	23 42.34	+ 7 44.6	1.796	2.778	5.8	20.6
9 18	23 34.17	- 1 28.0	2.246	3.251	0.7	20.2	9 18	23 33.95	+ 6 48.4	1.775	2.773	3.2	20.4
9 28	23 27.22	- 2 17.0	2.284	3.266	4.1	20.5	9 28	23 25.68	+ 5 43.0	1.783	2.767	4.9	20.5
10 8	23 21.19	- 3 0.7	2.349	3.282	7.4	20.8	10 8	23 18.45	+ 4 35.7	1.818	2.761	8.5	20.7
10 18	23 16.60	- 3 35.4	2.440	3.297	10.3	21.0	10 18	23 12.99	+ 3 32.9	1.878	2.754	12.0	20.9
<b>263810</b>	2008 <i>RD</i> <sub>56</sub>		9 16.0 280°86	1°1/18.3	18		<b>79889</b>	Maloka		9 16.1 313°15	2°4/18.2	18	
8 9	23 50.83	+ 5 1.5	4.364	5.146	7.8	21.2	8 9	23 57.87	+ 5 8.3	1.749	2.566	16.3	19.5
8 19	23 47.81	+ 4 48.2	4.261	5.136	6.2	21.1	8 19	23 54.73	+ 5 11.0	1.656	2.552	13.2	19.3
8 29	23 43.93	+ 4 27.3	4.182	5.127	4.4	20.9	8 29	23 49.32	+ 4 56.4	1.583	2.538	9.4	19.0
9 8	23 39.44	+ 4 0.1	4.130	5.117	2.5	20.8	9 8	23 42.15	+ 4 25.7	1.533	2.524	5.3	18.8
9 18	23 34.63	+ 3 28.2	4.107	5.108	1.1	20.7	9 18	23 33.99	+ 3 42.4	1.509	2.511	2.4	18.6
9 28	23 29.88	+ 2 53.8	4.114	5.098	2.4	20.8	9 28	23 25.89	+ 2 52.0	1.512	2.498	5.2	18.7
10 8	23 25.52	+ 2 19.4	4.151	5.088	4.3	20.9	10 8	23 18.90	+ 2 1.7	1.540	2.485	9.5	18.9
10 18	23 21.87	+ 1 47.3	4.216	5.079	6.2	21.0	10 18	23 13.87	+ 1 18.0	1.592	2.473	13.5	19.2
<b>246430</b>	2007 <i>VT</i> <sub>86</sub>		9 16.0 346°67	0°6/16.6	18		<b>310250</b>	2011 <i>UB</i> <sub>18</sub>		9 16.1 63°40	1°4/17.5	18	
8 9	0 1.01	+ 0 16.6	1.805	2.633	15.4	20.3	8 9	23 58.11	+ 4 13.5	1.885	2.700	15.3	20.6
8 19	23 56.90	+ 0 13.8	1.726	2.632	12.2	20.1	8 19	23 54.52	+ 3 53.5	1.811	2.707	12.2	20.4
8 29	23 50.59	- 0 1.9	1.667	2.631	8.3	19.9	8 29	23 48.91	+ 3 17.0	1.757	2.714	8.5	20.2
9 8	23 42.63	- 0 27.7	1.632	2.630	4.0	19.6	9 8	23 41.84	+ 2 26.8	1.728	2.722	4.4	20.0
9 18	23 33.86	- 0 59.6	1.625	2.629	0.9	19.4	9 18	23 34.09	+ 1 27.9	1.725	2.729	1.5	19.8
9 28	23 25.29	- 1 32.0	1.644	2.628	5.2	19.7	9 28	23 26.59	+ 0 26.3	1.751	2.736	4.8	20.0
10 8	23 17.92	- 1 59.6	1.690	2.628	9.4	20.0	10 8	23 20.21	- 0 31.0	1.803	2.744	8.7	20.3
10 18	23 12.52	- 2 18.0	1.760	2.627	13.1	20.2	10 18	23 15.63	- 1 18.8	1.879	2.751	12.2	20.5
<b>112251</b>	2002 <i>LO</i> <sub>10</sub>		9 16.1 112°83	2°2/14.1	18		<b>341093</b>	2007 <i>JZ</i> <sub>4</sub>		9 16.1 10°34	8°4/ 7.4	18	
8 9	0 1.35	- 3 46.7	1.501	2.352	16.9	19.9	8 9	23 52.64	-14 35.2	1.256	2.149	16.8	19.5
8 19	23 57.47	- 4 45.4	1.438	2.360	13.0	19.7	8 19	23 51.27	-16 59.4	1.208	2.151	13.0	19.2
8 29	23 51.09	- 5 58.3	1.395	2.368	8.5	19.5	8 29	23 47.22	-19 29.8	1.181	2.154	9.7	19.1
9 8	23 42.87	- 7 18.4	1.376	2.376	3.9	19.2	9 8	23 41.20	-21 51.3	1.178	2.158	8.4	19.0
9 18	23 33.82	- 8 36.8	1.384	2.384	3.0	19.2	9 18	23 34.26	-23 49.5	1.199	2.163	10.0	19.1
9 28	23 25.16	- 9 44.5	1.417	2.391	7.3	19.5	9 28	23 27.70	-25 13.1	1.243	2.170	13.3	19.3
10 8	23 17.99	-10 34.6	1.476	2.399	11.7	19.8	10 8	23 22.73	-25 57.9	1.307	2.177	16.7	19.6
10 18	23 13.10	-11 3.8	1.557	2.405	15.5	20.0	10 18	23 20.14	-26 5.1	1.388	2.185	19.8	19.8
<b>384514</b>	2010 <i>CW</i> <sub>158</sub>		9 16.1 185°02	1°2/14.7	18		<b>141795</b>	2002 <i>NJ</i> <sub>26</sub>		9 16.1 15°99	1°0/15.3	18	
8 9	23 59.65	- 2 49.2	2.058	2.890	13.7	21.7	8 9	23 48.34	+ 1 20.1	0.854	1.748	22.5	18.4
8 19	23 55.58	- 3 35.8	1.978	2.890	10.5	21.5	8 19	23 48.65	+ 0 17.6	0.811	1.757	17.4	18.2
8 29	23 49.56	- 4 34.0	1.920	2.889	6.9	21.2	8 29	23 45.78	- 1 13.5	0.785	1.767	11.5	17.9
9 8	23 42.13	- 5 39.0	1.889	2.889	3.1	21.0	9 8	23 40.61	- 3 3.2	0.778	1.780	5.0	17.6
9 18	23 34.00	- 6 45.0	1.886	2.888	1.8	20.9	9 18	23 34.41	- 4 57.0	0.791	1.795	2.1	17.5
9 28	23 26.06	- 7 45.5	1.911	2.886	5.6	21.2	9 28	23 28.80	- 6 38.6	0.826	1.812	8.3	18.0
10 8	23 19.16	- 8 34.8	1.963	2.885	9.3	21.4	10 8	23 25.12	- 7 55.4	0.881	1.831	14.0	18.3
10 18	23 13.96	- 9 9.5	2.040	2.882	12.6	21.6	10 18	23 24.19	- 8 41.7	0.954	1.852	18.7	18.7
<b>101350</b>	1998 <i>TE</i> <sub>20</sub>		9 16.1 30°73	4°5/12.5	18		<b>294140</b>	2007 <i>TN</i> <sub>301</sub>		9 16.1 279°96	1°7/17.8	18	
8 9	0 4.11	-13 12.7	1.693	2.549	15.0	19.2	8 9	23 58.26	+ 4 45.9	1.902	2.714	15.3	21.4
8 19	23 59.36	-13 42.1	1.628	2.552	11.6	19.0	8 19	23 54.73	+ 4 30.4	1.816	2.711	12.3	21.2
8 29	23 52.20	-14 14.0	1.586	2.556	8.0	18.8	8 29	23 49.13	+ 3 58.0	1.752	2.707	8.6	21.0
9 8	23 43.33	-14 41.8	1.568	2.560	5.0	18.6	9 8	23 42.00	+ 3 11.1	1.712	2.704	4.6	20.7
9 18	23 33.72	-14 59.5	1.576	2.564	5.2	18.7	9 18	23 34.06	+ 2 13.8	1.698	2.701	1.7	20.5
9 28	23 24.51	-15 1.8	1.611	2.569	8.3	18.9	9 28	23 26.29	+ 1 12.3	1.712	2.698	4.8	20.7
10 8	23 16.75	-14 46.6	1.670	2.574	11.8	19.1	10 8	23 19.59	+ 0 13.6	1.753	2.695	8.8	21.0
10 18	23 11.19	-14 14.0	1.752	2.578	15.1	19.3	10 18	23 14.69	- 0 36.6	1.818	2.691	12.5	21.2
<b>56144</b>	1999 <i>CB</i> <sub>83</sub>		9 16.1 149°75	3°7/13.1	18		<b>91091</b>	1998 <i>FD</i> <sub>129</sub>		9 16.1 31°70	3°4/16.9	16	
8 9	0 4.69	-10 22.8	1.678	2.530	15.3	18.2	8 9	0 22.04	- 2 47.0	0.953	1.800	24.5	18.2
8 19	23 59.86	-10 58.2	1.609	2.532	11.8	18.0	8 19	0 15.28	- 0 55.4	0.890	1.804	19.7	17.9
8 29	23 52.59	-11 39.3	1.563	2.534	7.9	17.7	8 29	0 3.98	+ 0 50.7	0.843	1.808	13.9	17.6
9 8	23 43.54	-12 19.6	1.540	2.536	4.4	17.5	9 8	23 49.07	+ 2 28.5	0.817	1.812	7.4	17.3
9 18	23 33.67	-12 52.3	1.545	2.538	4.4	17.6	9 18	23 32.35	+ 3 54.4	0.815	1.817	3.5	17.1
9 28	23 24.15	-13 11.6	1.576	2.540	7.9	17.8	9 28	23 16.31	+ 5 6.9	0.838	1.823	8.6	17.4
10 8	23 16.08	-13 13.9	1.633	2.541	11.7	18.0	10 8	23 3.20	+ 6 7.9	0.884	1.829	14.7	17.8
10 18	23 10.23	-12 58.3	1.712	2.543	15.1	18.2	10 18	22 54.37	+ 7 1.4	0.950	1.835	20.0	18.1
<b>105860</b>	2000 <i>SJ</i> <sub>170</sub>		9 16.1 308°82	3°2/13.2	18		<b>389575</b>	2010 <i></i>					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>16634</b>	1993 <i>OD</i> <sub>8</sub>		9 16.1	2°32'	3°7'/18.4	18	<b>156705</b>	2002 <i>LN</i> <sub>52</sub>		9 16.1	181°68'	4°9'/9.7	18
8 9	23 52.95	+ 4 17.8	0.872	1.751	23.6	17.2	8 9	23 58.13	-16 37.9	2.484	3.335	11.0	20.0
8 19	23 52.46	+ 4 52.9	0.816	1.747	19.1	16.9	8 19	23 54.11	-17 44.7	2.416	3.335	8.6	19.8
8 29	23 48.56	+ 5 2.2	0.775	1.746	13.7	16.6	8 29	23 48.44	-18 52.2	2.373	3.335	6.3	19.7
9 8	23 42.01	+ 4 46.2	0.751	1.746	7.9	16.3	9 8	23 41.61	-19 54.5	2.357	3.335	4.9	19.6
9 18	23 34.09	+ 4 9.7	0.747	1.749	3.7	16.1	9 18	23 34.24	-20 46.1	2.369	3.335	5.6	19.6
9 28	23 26.58	+ 3 22.3	0.763	1.754	7.4	16.4	9 28	23 27.06	-21 22.2	2.408	3.335	7.7	19.8
10 8	23 21.13	+ 2 35.6	0.799	1.761	13.1	16.7	10 8	23 20.78	-21 40.4	2.473	3.334	10.1	19.9
10 18	23 18.81	+ 1 59.6	0.853	1.770	18.3	17.0	10 18	23 15.95	-21 40.2	2.560	3.333	12.4	20.1
<b>75671</b>	2000 <i>AG</i> <sub>92</sub>		9 16.1	254°03'	6°0'/21.5	18	<b>35243</b>	1995 <i>TZ</i> <sub>1</sub>		9 16.1	77°21'	3°7'/12.9	18
8 9	0 2.55	+13 55.1	2.021	2.775	16.4	18.9	8 9	0 5.28	-10 18.9	1.714	2.563	15.2	18.5
8 19	23 58.11	+14 40.4	1.927	2.770	13.9	18.7	8 19	23 59.97	-11 2.4	1.667	2.589	11.6	18.3
8 29	23 51.47	+15 7.5	1.853	2.764	11.1	18.5	8 29	23 52.42	-11 50.5	1.643	2.614	7.7	18.1
9 8	23 43.12	+15 14.7	1.802	2.759	8.1	18.4	9 8	23 43.39	-12 36.5	1.645	2.640	4.3	18.0
9 18	23 33.82	+15 1.9	1.777	2.753	6.1	18.2	9 18	23 33.85	-13 14.0	1.673	2.665	4.3	18.0
9 28	23 24.57	+14 31.8	1.778	2.747	6.6	18.2	9 28	23 24.88	-13 37.6	1.728	2.690	7.5	18.3
10 8	23 16.37	+13 49.8	1.806	2.741	9.0	18.4	10 8	23 17.42	-13 44.5	1.809	2.714	11.0	18.5
10 18	23 10.05	+13 2.8	1.858	2.735	12.0	18.6	10 18	23 12.09	-13 34.3	1.913	2.739	14.0	18.8
<b>314545</b>	2005 <i>YY</i> <sub>106</sub>		9 16.1	77°66'	4°5'/21.5	18	<b>449786</b>	2014 <i>OT</i> <sub>162</sub>		9 16.1	45°61'	4°9'/10.4	18
8 9	23 59.71	+13 39.1	2.369	3.119	14.4	20.8	8 9	23 57.55	-14 38.3	2.130	2.988	12.3	21.1
8 19	23 55.30	+13 54.4	2.299	3.140	12.0	20.6	8 19	23 53.89	-15 46.8	2.067	2.992	9.5	20.9
8 29	23 49.21	+13 52.3	2.249	3.161	9.3	20.5	8 29	23 48.40	-16 57.6	2.028	2.996	6.7	20.7
9 8	23 41.93	+13 32.9	2.222	3.183	6.6	20.3	9 8	23 41.62	-18 3.9	2.016	3.000	5.0	20.6
9 18	23 34.14	+12 58.3	2.222	3.204	4.7	20.3	9 18	23 34.25	-18 59.3	2.030	3.004	5.7	20.7
9 28	23 26.60	+12 12.1	2.251	3.224	5.0	20.3	9 28	23 27.13	-19 38.5	2.071	3.009	8.1	20.8
10 8	23 20.03	+11 19.7	2.307	3.245	7.2	20.5	10 8	23 21.06	-19 58.3	2.137	3.013	10.9	21.0
10 18	23 13.99	+10 26.6	2.389	3.265	9.7	20.7	10 18	23 16.62	-19 58.3	2.226	3.018	13.4	21.2
<b>219492</b>	2001 <i>FR</i> <sub>32</sub>		9 16.1	76°08'	1°4'/17.2	17	<b>493535</b>	2015 <i>FJ</i> <sub>227</sub>		9 16.1	358°45'	1°0'/14.3	17
8 9	0 7.83	+ 2 46.1	1.483	2.302	18.6	20.0	8 9	23 52.12	- 6 5.7	4.044	4.870	7.6	21.3
8 19	0 2.19	+ 2 40.8	1.435	2.334	14.6	19.8	8 19	23 48.85	- 6 28.1	3.960	4.870	5.8	21.2
8 29	23 54.00	+ 2 18.3	1.407	2.366	9.9	19.7	8 29	23 44.66	- 6 54.3	3.901	4.869	3.8	21.0
9 8	23 44.11	+ 1 42.1	1.402	2.397	5.0	19.5	9 8	23 39.83	- 7 22.3	3.870	4.869	1.7	20.9
9 18	23 33.64	+ 0 57.7	1.424	2.428	1.5	19.3	9 18	23 34.70	- 7 49.5	3.869	4.869	1.3	20.9
9 28	23 23.84	+ 0 12.2	1.473	2.458	5.6	19.6	9 28	23 29.65	- 8 13.7	3.898	4.869	3.2	21.0
10 8	23 15.80	- 0 27.7	1.549	2.488	10.0	20.0	10 8	23 25.07	- 8 32.7	3.955	4.869	5.3	21.2
10 18	23 10.20	- 0 57.1	1.647	2.517	13.7	20.3	10 18	23 21.28	- 8 44.9	4.039	4.869	7.1	21.3
<b>449350</b>	2013 <i>GX</i> <sub>26</sub>		9 16.1	240°50'	1°9'/13.8	18	<b>310266</b>	2011 <i>UV</i> <sub>41</sub>		9 16.1	257°39'	0°5'/15.6	18
8 9	23 55.85	- 3 47.8	2.176	3.015	12.8	21.1	8 9	23 59.49	- 1 50.8	2.002	2.833	14.0	21.2
8 19	23 52.58	- 4 55.8	2.095	3.012	9.8	20.9	8 19	23 55.56	- 2 14.9	1.919	2.829	10.9	21.0
8 29	23 47.56	- 6 15.3	2.037	3.008	6.4	20.7	8 29	23 49.64	- 2 50.6	1.857	2.825	7.3	20.7
9 8	23 41.25	- 7 41.0	2.006	3.005	2.9	20.5	9 8	23 42.25	- 3 33.9	1.821	2.821	3.2	20.5
9 18	23 34.30	- 9 6.1	2.003	3.002	2.5	20.5	9 18	23 34.11	- 4 20.2	1.813	2.816	1.2	20.3
9 28	23 27.49	-10 23.8	2.029	2.999	5.8	20.7	9 28	23 26.13	- 5 3.6	1.832	2.812	5.2	20.6
10 8	23 21.60	-11 28.3	2.082	2.995	9.3	20.9	10 8	23 19.20	- 5 38.9	1.878	2.808	9.1	20.8
10 18	23 17.24	-12 15.8	2.159	2.992	12.3	21.1	10 18	23 14.01	- 6 2.5	1.948	2.803	12.6	21.0
<b>347078</b>	2010 <i>GR</i> <sub>30</sub>		9 16.1	141°68'	1°3'/14.9	18	<b>146851</b>	2002 <i>AK</i> <sub>104</sub>		9 16.1	284°22'	1°3'/14.7	18
8 9	0 0.88	- 3 43.9	1.925	2.761	14.3	21.5	8 9	23 57.62	- 3 37.9	2.097	2.934	13.2	20.9
8 19	23 56.63	- 4 15.6	1.851	2.764	11.0	21.3	8 19	23 54.04	- 4 15.9	2.013	2.928	10.2	20.7
8 29	23 50.31	- 4 57.7	1.798	2.768	7.3	21.1	8 29	23 48.58	- 5 4.3	1.952	2.923	6.7	20.5
9 8	23 42.51	- 5 45.7	1.772	2.771	3.2	20.9	9 8	23 41.76	- 5 58.9	1.917	2.917	3.0	20.2
9 18	23 34.00	- 6 34.1	1.772	2.775	1.9	20.8	9 18	23 34.23	- 6 54.2	1.909	2.911	1.9	20.2
9 28	23 25.74	- 7 16.8	1.801	2.778	5.7	21.1	9 28	23 26.84	- 7 44.4	1.929	2.905	5.5	20.4
10 8	23 18.64	- 7 48.8	1.856	2.780	9.6	21.3	10 8	23 20.43	- 8 24.3	1.976	2.900	9.2	20.6
10 18	23 13.37	- 8 7.1	1.935	2.783	13.0	21.5	10 18	23 15.65	- 8 50.5	2.048	2.894	12.4	20.8
<b>342055</b>	2008 <i>RV</i> <sub>146</sub>		9 16.1	311°11'	6°3'/12.7	18	<b>96595</b>	1998 <i>XQ</i> <sub>23</sub>		9 16.1	296°31'	2°0'/18.3	18
8 9	0 13.53	-18 36.8	1.556	2.405	16.5	19.5	8 9	23 56.41	+ 5 47.0	2.258	3.059	13.6	19.8
8 19	0 7.25	-18 40.4	1.474	2.389	13.2	19.2	8 19	23 53.07	+ 5 37.8	2.158	3.043	11.0	19.6
8 29	23 57.85	-18 39.8	1.412	2.374	9.6	19.0	8 29	23 47.96	+ 5 13.6	2.078	3.028	7.9	19.4
9 8	23 46.09	-18 27.4	1.374	2.359	6.7	18.8	9 8	23 41.49	+ 4 36.1	2.024	3.013	4.5	19.1
9 18	23 33.14	-17 57.1	1.363	2.345	6.9	18.7	9 18	23 34.28	+ 3 48.1	1.996	2.997	2.0	18.9
9 28	23 20.52	-17 5.1	1.379	2.331	10.0	18.9	9 28	23 27.10	+ 2 54.4	1.997	2.982	4.3	19.1
10 8	23 9.69	-15 51.8	1.420	2.317	13.9	19.1	10 8	23 20.76	+ 2 0.7	2.025	2.967	7.8	19.2
10 18	23 1.66	-14 20.8	1.484	2.304	17.6	19.3	10 18	23 15.91	+ 1 12.3	2.079	2.952	11.1	19.4
<b>214059</b>	2004 <i>FO</i> <sub>84</sub>		9 16.1	195°08'	4°2'/11.2	18	<b>128226</b>	2003 <i>SB</i> <sub>114</sub>		9 16.1	37°16'	2°1'/18.3	18
8 9	0 1.23	-14 4.0	2.404	3.248	11.5	21.6	8 9	23 57.72	+ 5 20.1	1.965	2.774	15.0	19.7
8 19	23 56.54	-14 56.6	2.329	3.246	8.9	21.4	8 19	23 54.13	+ 5 18.0	1.894	2.785	12.0	19.5
8 29	23 50.09	-15 51.4	2.278	3.243	6.2	21.2	8 29	23 48.62	+ 5 0.3	1.844	2.796	8.5	19.3
9 8	23 42.37	-16 43.1	2.254	3.240	4.3	21.1	9 8	23 41.75	+ 4 29.1	1.818	2.808	4.8	19.1
9 18	23 34.05	-17 26.0	2.258	3.237	4.8	21.1	9 18	23 34.26	+ 3 47.9	1.819	2.820	2.2	19.0
9 28	23 25.92	-17 55.5	2.291	3.233	7.2	21.3	9 28	23 27.02	+ 3 1.9	1.847	2.833	4.5	19.2
10 8	23 18.75	-18 8.9	2.350	3.229	9.9	21.4	10 8	23 20.88	+ 2 17.0	1.902	2.846	8.1	19.4
10 18	23 13.13	-18 5.4	2.432	3.224	12.4	21.6	10 18	23 16.44	+ 1 38.3	1.982	2.859	11.4	19.7
<b>449799</b>	2014 <i>OL</i> <sub>259</sub>		9 16.1	72°47'	4°4'/10.9	18	<b>339198</b>	2004 <i>TA</i>					

EPHEMERIDES

9 16.1

9 16.1

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>339179</b>	2004 <i>TY</i> <sub>137</sub>		9 16.1 272°24	7.7/23.8	14	C	<b>488640</b>	2003 <i>FR</i> <sub>6</sub>		9 16.1 47°07	7.6/25.0	17	C
8 9	23 55.14	+22 0.6	1.217	1.987	24.5	20.7	8 9	0 10.43	+41 1.8	0.856	1.537	38.2	21.1
8 19	23 53.76	+21 28.0	1.127	1.975	21.3	20.4	8 19	0 5.21	+36 52.8	0.805	1.589	32.9	20.9
8 29	23 49.34	+20 7.6	1.050	1.963	17.3	20.1	8 29	23 56.10	+31 8.2	0.766	1.641	26.0	20.7
9 8	23 42.43	+17 54.7	0.991	1.951	12.7	19.8	9 8	23 44.91	+23 51.8	0.749	1.694	17.8	20.4
9 18	23 34.06	+14 51.3	0.954	1.938	8.7	19.5	9 18	23 33.71	+15 39.3	0.763	1.747	10.1	20.3
9 28	23 25.76	+11 10.7	0.942	1.925	8.2	19.5	9 28	23 24.45	+7 32.7	0.812	1.799	8.0	20.4
10 8	23 19.08	+7 15.8	0.956	1.913	12.2	19.6	10 8	23 18.32	+0 29.5	0.896	1.851	13.0	20.9
10 18	23 15.20	+3 31.4	0.993	1.900	17.3	19.9	10 18	23 15.70	-5 2.8	1.009	1.902	18.3	21.4
<b>430623</b>	2003 <i>FG</i> <sub>133</sub>		9 16.1 218°13	1.2/18.6	17		<b>507378</b>	2012 <i>DW</i> <sub>22</sub>		9 16.1 125°22	1.8/17.6	17	
8 9	23 50.02	+6 12.7	4.508	5.284	7.7	21.3	8 9	0 3.64	+4 24.2	1.604	2.420	17.6	21.8
8 19	23 47.19	+5 49.4	4.412	5.283	6.1	21.2	8 19	23 59.18	+4 12.2	1.534	2.430	14.0	21.6
8 29	23 43.54	+5 18.1	4.340	5.283	4.3	21.1	8 29	23 52.25	+3 41.6	1.483	2.440	9.8	21.3
9 8	23 39.33	+4 40.3	4.296	5.282	2.5	21.0	9 8	23 43.51	+2 55.1	1.456	2.449	5.2	21.1
9 18	23 34.85	+3 57.6	4.280	5.281	1.2	20.8	9 18	23 33.92	+1 57.8	1.455	2.458	1.8	20.9
9 28	23 30.43	+3 12.5	4.296	5.280	2.3	20.9	9 28	23 24.68	+0 57.1	1.481	2.467	5.4	21.2
10 8	23 26.40	+2 27.5	4.340	5.279	4.1	21.1	10 8	23 16.87	+0 0.6	1.534	2.475	9.9	21.4
10 18	23 23.05	+1 45.0	4.414	5.277	5.9	21.2	10 18	23 11.30	-0 45.4	1.610	2.483	13.8	21.7
<b>156182</b>	2001 <i>TE</i> <sub>219</sub>		9 16.1 271°07	4.5/11.9	18		<b>41802</b>	2000 <i>WD</i> <sub>24</sub>		9 16.1 218°12	0.2/16.3	18	
8 9	0 0.06	-10 11.9	1.658	2.519	15.1	20.2	8 9	23 59.44	+2 25.3	1.531	2.366	17.4	18.8
8 19	23 56.54	-11 20.1	1.579	2.507	11.7	20.0	8 19	23 56.17	+1 37.9	1.453	2.363	13.7	18.6
8 29	23 50.59	-12 37.3	1.522	2.495	7.9	19.8	8 29	23 50.40	+0 29.7	1.394	2.360	9.3	18.3
9 8	23 42.80	-13 55.6	1.489	2.483	4.9	19.6	9 8	23 42.74	+0 54.7	1.359	2.357	4.3	18.0
9 18	23 34.02	-15 6.2	1.483	2.471	5.4	19.6	9 18	23 34.09	-2 27.6	1.350	2.354	0.9	17.8
9 28	23 25.39	-16 0.7	1.502	2.459	8.9	19.7	9 28	23 25.65	-3 59.0	1.367	2.351	6.1	18.1
10 8	23 18.05	-16 33.4	1.546	2.447	12.8	19.9	10 8	23 18.56	-5 19.3	1.410	2.347	10.9	18.4
10 18	23 12.83	-16 42.3	1.612	2.435	16.3	20.1	10 18	23 13.69	-6 21.8	1.476	2.344	15.2	18.6
<b>283609</b>	2002 <i>AT</i> <sub>173</sub>		9 16.1 136°83	9.3/28.2	16		<b>157758</b>	2007 <i>AU</i> <sub>25</sub>		9 16.1 197°31	2.0/14.1	18	
8 9	0 8.12	+29 40.6	2.595	3.204	16.2	22.3	8 9	23 59.39	-3 17.8	1.700	2.545	15.5	20.5
8 19	0 2.06	+30 46.8	2.512	3.220	14.6	22.2	8 19	23 55.84	-4 21.5	1.624	2.544	11.9	20.3
8 29	23 53.92	+31 31.3	2.447	3.236	12.9	22.1	8 29	23 50.02	-5 39.6	1.570	2.543	7.8	20.1
9 8	23 44.21	+31 50.6	2.403	3.251	11.1	22.0	9 8	23 42.51	-7 5.8	1.541	2.541	3.6	19.8
9 18	23 33.69	+31 42.9	2.382	3.266	9.8	21.9	9 18	23 34.15	-8 31.9	1.539	2.540	2.8	19.8
9 28	23 23.29	+31 9.2	2.386	3.279	9.3	21.9	9 28	23 26.02	-9 49.0	1.565	2.538	6.9	20.0
10 8	23 13.96	+30 14.0	2.416	3.292	9.8	21.9	10 8	23 19.12	-10 50.2	1.615	2.536	11.0	20.3
10 18	23 6.42	+29 4.2	2.471	3.304	11.0	22.0	10 18	23 14.24	-11 31.1	1.689	2.533	14.7	20.5
<b>104716</b>	2000 <i>GM</i> <sub>172</sub>		9 16.1 135°58	3.5/19.3	18		<b>185248</b>	2006 <i>UZ</i> <sub>59</sub>		9 16.1 330°09	1.2/15.4	18	
8 9	0 2.54	+8 28.3	1.762	2.556	17.1	20.0	8 9	0 3.88	-5 1.1	1.267	2.127	18.8	19.8
8 19	23 58.18	+8 33.9	1.685	2.563	13.9	19.8	8 19	0 0.21	-4 55.1	1.191	2.118	14.7	19.5
8 29	23 51.52	+8 20.0	1.627	2.569	10.2	19.6	8 29	23 53.44	-4 59.8	1.135	2.109	9.9	19.2
9 8	23 43.15	+7 47.4	1.593	2.575	6.3	19.3	9 8	23 44.23	-5 11.0	1.100	2.100	4.5	18.9
9 18	23 33.95	+6 59.5	1.584	2.581	3.5	19.2	9 18	23 33.73	-5 23.0	1.089	2.092	2.0	18.7
9 28	23 24.99	+6 2.2	1.603	2.587	5.4	19.3	9 28	23 23.47	-5 29.4	1.103	2.085	7.5	19.0
10 8	23 17.31	+5 2.8	1.648	2.592	9.1	19.6	10 8	23 14.94	-5 24.8	1.140	2.079	12.8	19.3
10 18	23 11.69	+4 8.3	1.718	2.597	12.8	19.8	10 18	23 9.19	-5 6.3	1.198	2.073	17.4	19.6
<b>220392</b>	2003 <i>QN</i> <sub>73</sub>		9 16.1 348°31	3.7/19.8	18		<b>324865</b>	2007 <i>TQ</i> <sub>119</sub>		9 16.1 314°38	0.5/15.8	17	
8 9	23 59.63	+8 51.2	2.155	2.937	14.7	19.8	8 9	23 58.61	-1 38.8	1.159	2.026	19.7	21.3
8 19	23 55.60	+9 16.4	2.066	2.935	12.1	19.6	8 19	23 56.56	-1 46.8	1.073	2.002	15.7	21.0
8 29	23 49.65	+9 26.5	1.999	2.933	9.1	19.4	8 29	23 51.34	-2 12.9	1.004	1.979	10.7	20.7
9 8	23 42.28	+9 21.4	1.955	2.932	5.9	19.3	9 8	23 43.44	-2 53.4	0.956	1.956	4.9	20.3
9 18	23 34.15	+9 2.8	1.938	2.930	3.8	19.1	9 18	23 33.89	-3 41.5	0.930	1.934	1.5	20.0
9 28	23 26.15	+8 34.0	1.948	2.929	4.9	19.2	9 28	23 24.27	-4 27.8	0.927	1.912	7.8	20.3
10 8	23 19.11	+8 0.1	1.986	2.928	7.9	19.4	10 8	23 16.24	-5 2.7	0.946	1.892	13.8	20.6
10 18	23 13.72	+7 26.2	2.049	2.927	11.0	19.6	10 18	23 11.11	-5 19.5	0.984	1.872	19.2	20.8
<b>311434</b>	2005 <i>UX</i> <sub>198</sub>		9 16.1 129°20	4.7/11.0	18		<b>282255</b>	2002 <i>JX</i> <sub>49</sub>		9 16.1 50°59	6.7/23.3	16	
8 9	0 1.55	-15 57.3	2.296	3.144	11.9	21.0	8 9	23 57.60	+17 50.9	1.604	2.366	19.8	20.3
8 19	23 56.81	-16 43.2	2.232	3.149	9.2	20.9	8 19	23 54.57	+17 59.3	1.538	2.382	16.8	20.1
8 29	23 50.27	-17 29.4	2.191	3.154	6.6	20.7	8 29	23 49.19	+17 39.0	1.489	2.398	13.4	19.9
9 8	23 42.48	-18 10.3	2.176	3.159	4.8	20.6	9 8	23 42.11	+16 49.4	1.460	2.415	9.8	19.8
9 18	23 34.14	-18 40.7	2.189	3.164	5.3	20.6	9 18	23 34.26	+15 33.4	1.454	2.431	7.2	19.7
9 28	23 26.08	-18 56.3	2.230	3.169	7.6	20.8	9 28	23 26.75	+13 58.0	1.474	2.449	7.1	19.7
10 8	23 19.07	-18 55.2	2.297	3.173	10.2	21.0	10 8	23 20.63	+12 13.8	1.520	2.466	9.5	19.9
10 18	23 13.70	-18 37.4	2.387	3.178	12.6	21.1	10 18	23 16.62	+10 31.1	1.590	2.484	12.7	20.1
<b>6969</b>	Santaro		9 16.1 258°09	2.3/14.1	18		<b>295578</b>	2008 <i>SM</i> <sub>108</sub>		9 16.1 255°32	0.5/17.2	16	
8 9	23 59.33	-2 46.6	1.367	2.225	17.8	16.7	8 9	23 50.80	+2 5.9	4.517	5.312	7.4	21.0
8 19	23 56.35	-3 54.6	1.295	2.222	13.8	16.5	8 19	23 47.79	+1 48.2	4.420	5.307	5.8	20.9
8 29	23 50.65	-5 21.2	1.243	2.218	9.1	16.2	8 29	23 43.96	+1 24.2	4.349	5.303	4.0	20.8
9 8	23 42.87	-6 58.8	1.214	2.215	4.1	15.9	9 8	23 39.56	+0 55.3	4.304	5.298	2.0	20.6
9 18	23 34.02	-8 36.9	1.210	2.211	3.2	15.9	9 18	23 34.87	+0 23.3	4.290	5.294	0.6	20.5
9 28	23 25.43	-10 4.2	1.232	2.208	8.0	16.1	9 28	23 30.24	-0 9.7	4.305	5.289	2.3	20.6
10 8	23 18.36	-11 11.5	1.278	2.204	12.9	16.4	10 8	23 26.00	-0 41.2	4.351	5.284	4.3	20.8
10 18	23 13.72	-11 53.9	1.345	2.200	17.1	16.7	10 18	23 22.44	-1 9.4	4.424	5.280	6.1	20.9
<b>139362</b>	2001 <i>MZ</i> <sub>4</sub>		9 16.1 31°99	4.0/18.9	18		<b>449013</b>	2012 <i>BG</i> <sub>107</sub>		9 16.1 52°85	3.0/12.4	18	
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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>31849</b>	2000 EZ <sub>21</sub>		9 16.1 346°91	10°9/13.7	17		<b>63215</b>	2001 AD <sub>25</sub>		9 16.1 244°18	0°1/16.1	18	
8 9	0 27.57	-25 28.1	0.951	1.812	23.5	18.2	8 9	23 57.49	+ 0 2.0	2.464	3.281	12.1	20.6
8 19	0 19.83	-25 17.4	0.891	1.807	19.5	17.9	8 19	23 53.71	- 0 25.9	2.371	3.272	9.5	20.4
8 29	0 7.05	-24 49.5	0.847	1.804	15.1	17.7	8 29	23 48.29	- 1 4.8	2.300	3.263	6.4	20.2
9 8	23 50.48	-23 50.6	0.823	1.800	11.6	17.5	9 8	23 41.67	- 1 51.7	2.256	3.253	2.9	19.9
9 18	23 32.34	-22 12.2	0.822	1.798	11.3	17.4	9 18	23 34.41	- 2 42.8	2.239	3.244	0.7	19.7
9 28	23 15.47	-19 55.0	0.845	1.797	14.6	17.6	9 28	23 27.24	- 3 33.2	2.253	3.234	4.3	20.0
10 8	23 2.15	-17 9.8	0.889	1.796	19.1	17.9	10 8	23 20.87	- 4 18.0	2.294	3.224	7.7	20.2
10 18	22 53.54	-14 9.9	0.953	1.796	23.5	18.2	10 18	23 15.87	- 4 53.6	2.360	3.214	10.7	20.4
<b>98322</b>	2000 SY <sub>269</sub>		9 16.1 21°12	5°3/12.3	18		<b>28218</b>	1998 YA <sub>6</sub>		9 16.1 165°68	0°2/16.2	18	
8 9	23 55.74	- 8 17.6	0.942	1.840	20.6	18.4	8 9	0 1.80	+ 1 42.0	1.467	2.302	18.0	18.7
8 19	23 54.27	- 9 33.3	0.900	1.848	15.8	18.2	8 19	23 58.06	+ 1 3.2	1.394	2.305	14.1	18.4
8 29	23 49.51	-11 2.3	0.874	1.857	10.5	17.9	8 29	23 51.69	+ 0 4.5	1.340	2.307	9.6	18.2
9 8	23 42.38	-12 32.0	0.869	1.868	6.0	17.7	9 8	23 43.35	- 1 9.1	1.310	2.308	4.4	17.9
9 18	23 34.23	-13 48.9	0.885	1.880	6.4	17.8	9 18	23 34.01	- 2 30.4	1.305	2.310	1.0	17.6
9 28	23 26.73	-14 41.2	0.923	1.893	11.0	18.1	9 28	23 24.96	- 3 49.5	1.327	2.311	6.3	18.0
10 8	23 21.30	-15 3.1	0.981	1.908	15.7	18.4	10 8	23 17.40	- 4 57.6	1.375	2.312	11.2	18.3
10 18	23 18.77	-14 54.4	1.057	1.923	19.9	18.7	10 18	23 12.19	- 5 48.3	1.444	2.312	15.4	18.6
<b>258376</b>	2001 XN <sub>20</sub>		9 16.1 203°83	3°3/19.6	18		<b>76114</b>	2000 DF <sub>107</sub>		9 16.1 147°66	2°8/13.3	18	
8 9	0 0.53	+ 8 42.1	2.311	3.088	14.0	20.4	8 9	0 2.50	- 9 20.6	2.218	3.057	12.6	20.0
8 19	23 56.17	+ 8 57.6	2.220	3.086	11.5	20.2	8 19	23 57.60	- 9 56.3	2.148	3.063	9.6	19.8
8 29	23 49.99	+ 8 58.4	2.150	3.084	8.5	20.0	8 29	23 50.86	-10 37.1	2.100	3.070	6.4	19.6
9 8	23 42.45	+ 8 44.9	2.105	3.082	5.5	19.8	9 8	23 42.80	-11 18.0	2.079	3.076	3.4	19.5
9 18	23 34.20	+ 8 18.9	2.087	3.080	3.4	19.7	9 18	23 34.16	-11 53.9	2.087	3.081	3.3	19.5
9 28	23 26.06	+ 7 44.0	2.097	3.078	4.6	19.7	9 28	23 25.78	-12 20.2	2.123	3.086	6.2	19.7
10 8	23 18.84	+ 7 5.0	2.136	3.076	7.6	19.9	10 8	23 18.47	-12 33.6	2.187	3.091	9.4	19.9
10 18	23 13.17	+ 6 26.9	2.200	3.073	10.6	20.1	10 18	23 12.82	-12 32.7	2.274	3.096	12.2	20.1
<b>291358</b>	2006 BX <sub>259</sub>		9 16.1 103°71	1°9/18.0	18		<b>369744</b>	2012 FS <sub>29</sub>		9 16.1 113°71	0°4/15.7	17	
8 9	0 1.74	+ 5 10.2	1.892	2.697	15.7	21.1	8 9	0 0.35	+ 0 45.2	1.496	2.336	17.5	21.2
8 19	23 57.30	+ 4 59.1	1.823	2.711	12.5	20.9	8 19	23 56.82	- 0 3.9	1.427	2.342	13.6	21.0
8 29	23 50.78	+ 4 31.5	1.774	2.726	8.8	20.7	8 29	23 50.78	- 1 11.7	1.379	2.348	9.1	20.8
9 8	23 42.79	+ 3 49.8	1.749	2.740	4.8	20.5	9 8	23 42.90	- 2 32.8	1.354	2.353	4.1	20.5
9 18	23 34.14	+ 2 58.3	1.752	2.754	1.9	20.3	9 18	23 34.13	- 3 58.9	1.355	2.359	1.3	20.3
9 28	23 25.80	+ 2 3.0	1.782	2.768	4.7	20.6	9 28	23 25.69	- 5 20.5	1.383	2.365	6.3	20.7
10 8	23 18.67	+ 1 10.3	1.840	2.781	8.5	20.8	10 8	23 18.69	- 6 28.9	1.436	2.370	11.0	20.9
10 18	23 13.42	+ 0 25.6	1.923	2.794	12.0	21.1	10 18	23 13.95	- 7 18.6	1.511	2.375	15.1	21.2
<b>309031</b>	2006 UH <sub>160</sub>		9 16.1 297°03	1°8/14.3	18		<b>40082</b>	1998 ML <sub>16</sub>		9 16.1 224°42	0°2/16.3	18	
8 9	23 58.75	- 5 8.7	1.956	2.799	13.8	20.7	8 9	23 58.17	+ 0 10.1	2.442	3.258	12.3	20.3
8 19	23 55.06	- 5 46.9	1.877	2.795	10.7	20.5	8 19	23 54.21	- 0 12.1	2.353	3.253	9.6	20.1
8 29	23 49.36	- 6 34.8	1.819	2.791	7.0	20.2	8 29	23 48.61	- 0 45.1	2.286	3.248	6.5	19.9
9 8	23 42.19	- 7 27.7	1.787	2.787	3.2	20.0	9 8	23 41.81	- 1 26.0	2.245	3.243	3.0	19.7
9 18	23 34.27	- 8 19.7	1.782	2.782	2.4	19.9	9 18	23 34.39	- 2 11.0	2.233	3.237	0.6	19.5
9 28	23 26.53	- 9 4.6	1.805	2.778	6.1	20.2	9 28	23 27.08	- 2 55.6	2.250	3.232	4.2	19.8
10 8	23 19.86	- 9 37.5	1.854	2.774	9.8	20.4	10 8	23 20.60	- 3 35.2	2.295	3.226	7.6	20.0
10 18	23 14.95	- 9 55.2	1.926	2.771	13.2	20.6	10 18	23 15.53	- 4 6.2	2.365	3.220	10.6	20.2
<b>261231</b>	2005 UH <sub>37</sub>		9 16.1 237°17	5°0/10.5	18		<b>293181</b>	2007 AW <sub>11</sub>		9 16.1 320°92	1°8/17.9	17	
8 9	23 59.91	-16 2.6	2.205	3.058	12.1	20.4	8 9	23 56.86	+ 4 26.2	1.843	2.661	15.5	21.1
8 19	23 55.71	-16 58.3	2.137	3.057	9.5	20.2	8 19	23 53.84	+ 4 19.1	1.752	2.649	12.5	20.9
8 29	23 49.66	-17 55.0	2.091	3.056	6.8	20.0	8 29	23 48.71	+ 3 55.3	1.681	2.638	8.8	20.6
9 8	23 42.27	-18 46.4	2.072	3.054	5.1	19.9	9 8	23 41.97	+ 3 16.8	1.634	2.626	4.8	20.4
9 18	23 34.27	-19 26.7	2.080	3.053	5.7	20.0	9 18	23 34.34	+ 2 27.2	1.613	2.615	1.8	20.2
9 28	23 26.50	-19 51.0	2.116	3.052	8.1	20.1	9 28	23 26.79	+ 1 32.6	1.618	2.605	4.9	20.3
10 8	23 19.77	-19 56.9	2.176	3.050	10.8	20.3	10 8	23 20.29	+ 0 39.8	1.650	2.595	9.1	20.6
10 18	23 14.69	-19 44.1	2.259	3.049	13.3	20.5	10 18	23 15.61	- 0 5.3	1.706	2.585	12.9	20.8
<b>24498</b>	2001 AC <sub>25</sub>		9 16.1 218°29	0°5/15.0	18		<b>121674</b>	1999 XQ <sub>52</sub>		9 16.1 271°35	5°7/9.5	18	
8 9	23 50.05	- 2 59.5	4.582	5.398	6.9	19.4	8 9	0 0.10	-18 48.5	2.290	3.142	11.8	20.0
8 19	23 47.21	- 3 33.8	4.493	5.397	5.3	19.3	8 19	23 55.87	-19 46.0	2.217	3.134	9.3	19.8
8 29	23 43.58	- 4 12.9	4.430	5.395	3.5	19.1	8 29	23 49.79	-20 42.9	2.168	3.126	7.0	19.7
9 8	23 39.40	- 4 54.9	4.395	5.394	1.5	19.0	9 8	23 42.35	-21 32.7	2.144	3.118	5.7	19.6
9 18	23 34.95	- 5 37.6	4.390	5.392	0.8	18.9	9 18	23 34.26	-22 9.6	2.148	3.109	6.5	19.6
9 28	23 30.56	- 6 18.4	4.415	5.391	2.7	19.1	9 28	23 26.37	-22 29.0	2.178	3.101	8.6	19.7
10 8	23 26.56	- 6 55.2	4.470	5.389	4.6	19.2	10 8	23 19.48	-22 28.8	2.234	3.093	11.1	19.9
10 18	23 23.22	- 7 26.1	4.552	5.387	6.3	19.3	10 18	23 14.23	-22 8.9	2.311	3.084	13.5	20.0
<b>211082</b>	2002 EN <sub>22</sub>		9 16.1 112°84	3°2/13.3	17		<b>46546</b>	1988 VM <sub>5</sub>		9 16.1 337°76	1°6/14.8	18	
8 9	0 3.86	- 6 27.4	1.559	2.409	16.4	20.5	8 9	23 53.11	- 3 19.2	1.304	2.177	17.6	18.0
8 19	23 59.29	- 7 33.9	1.503	2.425	12.5	20.3	8 19	23 51.78	- 3 47.9	1.221	2.155	13.8	17.7
8 29	23 52.26	- 8 51.1	1.468	2.441	8.2	20.0	8 29	23 47.80	- 4 33.0	1.157	2.134	9.2	17.4
9 8	23 43.49	-10 11.2	1.458	2.456	4.1	19.8	9 8	23 41.70	- 5 29.3	1.114	2.115	4.1	17.0
9 18	23 34.00	-11 25.2	1.474	2.470	4.0	19.9	9 18	23 34.39	- 6 28.9	1.095	2.097	2.4	16.9
9 28	23 24.97	-12 25.1	1.518	2.484	7.8	20.1	9 28	23 27.16	- 7 22.3	1.099	2.081	7.6	17.1
10 8	23 17.48	-13 5.2	1.586	2.498	11.8	20.4	10 8	23 21.31	- 8 1.1	1.126	2.067	12.7	17.4
10 18	23 12.25	-13 23.8	1.677	2.511	15.3	20.7	10 18	23 17.84	- 8 19.8	1.174	2.053	17.3	17.6
<b>513242</b>	2006 AL <sub>39</sub>		9 16.1 174°20	3°2/20.8	18		<b>9403</b>						



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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>115707</b>	2003 <i>UW</i> <sub>168</sub>	9 16.1 335°36		0°2/15.9 18			<b>332454</b>	2008 <i>CJ</i> <sub>20</sub>	9 16.1 184°43		2°6/13.5 17		
8 9	23 56.40	- 0 57.1	2.062	2.894	13.6	19.6	8 9	0 2.99	- 6 19.2	1.903	2.742	14.3	21.8
8 19	23 53.18	- 1 18.6	1.976	2.887	10.6	19.4	8 19	23 58.40	- 7 16.6	1.826	2.742	11.0	21.6
8 29	23 48.09	- 1 51.9	1.912	2.879	7.1	19.1	8 29	23 51.63	- 8 23.9	1.772	2.742	7.3	21.4
9 8	23 41.62	- 2 33.5	1.874	2.873	3.2	18.9	9 8	23 43.27	- 9 35.2	1.744	2.742	3.6	21.1
9 18	23 34.43	- 3 19.0	1.862	2.866	0.9	18.7	9 18	23 34.11	-10 43.3	1.743	2.740	3.3	21.1
9 28	23 27.38	- 4 2.9	1.878	2.860	4.9	19.0	9 28	23 25.17	-11 41.1	1.771	2.738	6.9	21.3
10 8	23 21.29	- 4 40.0	1.921	2.855	8.7	19.2	10 8	23 17.42	-12 23.1	1.826	2.735	10.6	21.6
10 18	23 16.81	- 5 6.4	1.988	2.850	12.1	19.4	10 18	23 11.59	-12 46.8	1.904	2.732	14.0	21.8
<b>81409</b>	2000 <i>GO</i> <sub>89</sub>	9 16.1 26°31		3°7/13.0 18 R			<b>382182</b>	2012 <i>KX</i> <sub>8</sub>	9 16.1 4°62		6°6/11.2 18		
8 9	23 52.88	- 3 46.5	0.988	1.879	20.4	16.6	8 9	23 55.78	-11 56.3	1.074	1.969	18.9	20.0
8 19	23 51.78	- 5 20.8	0.951	1.896	15.5	16.3	8 19	23 54.15	-13 10.7	1.022	1.968	14.6	19.7
8 29	23 47.68	- 7 13.5	0.932	1.915	10.0	16.1	8 29	23 49.43	-14 33.4	0.988	1.968	10.1	19.5
9 8	23 41.50	- 9 11.9	0.934	1.935	4.8	15.9	9 8	23 42.41	-15 52.7	0.976	1.970	6.8	19.3
9 18	23 34.49	-11 1.4	0.959	1.957	4.8	16.0	9 18	23 34.32	-16 56.0	0.985	1.973	7.7	19.4
9 28	23 28.13	-12 28.8	1.006	1.980	9.5	16.3	9 28	23 26.71	-17 33.4	1.017	1.977	11.6	19.6
10 8	23 23.64	-13 26.2	1.075	2.004	14.3	16.7	10 8	23 20.97	-17 40.1	1.069	1.983	15.9	19.9
10 18	23 21.73	-13 52.0	1.162	2.030	18.4	17.0	10 18	23 17.99	-17 16.7	1.139	1.990	19.8	20.2
<b>167902</b>	2005 <i>ET</i> <sub>89</sub>	9 16.1 227°47		0°1/16.1 18			<b>515195</b>	2011 <i>UX</i> <sub>248</sub>	9 16.1 292°14		3°7/12.5 18		
8 9	23 58.73	+ 0 38.1	1.924	2.751	14.7	20.3	8 9	0 0.05	-10 43.1	1.979	2.831	13.3	21.6
8 19	23 55.09	+ 0 4.4	1.841	2.748	11.5	20.1	8 19	23 56.07	-11 28.1	1.903	2.826	10.3	21.4
8 29	23 49.42	- 0 43.9	1.780	2.745	7.7	19.9	8 29	23 50.05	-12 18.4	1.850	2.821	6.9	21.2
9 8	23 42.24	- 1 42.9	1.744	2.743	3.6	19.6	9 8	23 42.54	-13 8.3	1.822	2.817	4.1	21.0
9 18	23 34.30	- 2 47.1	1.735	2.740	0.8	19.4	9 18	23 34.29	-13 51.4	1.822	2.812	4.3	21.0
9 28	23 26.52	- 3 50.0	1.754	2.737	5.2	19.7	9 28	23 26.26	-14 22.2	1.848	2.807	7.3	21.2
10 8	23 19.81	- 4 45.0	1.800	2.734	9.2	20.0	10 8	23 19.32	-14 36.8	1.901	2.803	10.7	21.4
10 18	23 14.88	- 5 27.3	1.870	2.730	12.8	20.2	10 18	23 14.19	-14 33.8	1.976	2.798	13.7	21.6
<b>147701</b>	2005 <i>GY</i> <sub>89</sub>	9 16.1 44°92		1°4/15.0 18			<b>246039</b>	2006 <i>US</i> <sub>175</sub>	9 16.1 85°72		7°0/ 9.8 18		
8 9	0 0.25	- 1 42.5	1.139	2.005	20.1	19.2	8 9	0 5.79	-21 39.4	1.963	2.813	13.5	19.7
8 19	23 57.12	- 2 29.5	1.095	2.025	15.4	19.0	8 19	0 0.37	-22 29.7	1.911	2.823	10.8	19.5
8 29	23 51.07	- 3 34.4	1.070	2.046	10.1	18.8	8 29	23 52.78	-23 15.5	1.881	2.833	8.4	19.4
9 8	23 43.00	- 4 49.3	1.067	2.068	4.4	18.5	9 8	23 43.70	-23 49.5	1.876	2.843	7.0	19.4
9 18	23 34.15	- 6 4.1	1.088	2.091	2.2	18.4	9 18	23 34.05	-24 5.7	1.898	2.853	7.7	19.4
9 28	23 25.99	- 7 8.3	1.132	2.114	7.5	18.8	9 28	23 24.87	-24 0.6	1.946	2.863	9.8	19.6
10 8	23 19.72	- 7 54.2	1.200	2.137	12.4	19.2	10 8	23 17.09	-23 33.5	2.018	2.873	12.3	19.8
10 18	23 16.09	- 8 18.5	1.289	2.161	16.6	19.5	10 18	23 11.35	-22 46.6	2.112	2.883	14.7	19.9
<b>216419</b>	2008 <i>SJ</i> <sub>172</sub>	9 16.1 295°13		1°4/18.8 18			<b>257409</b>	2009 <i>SB</i> <sub>360</sub>	9 16.1 317°03		1°9/19.7 15		
8 9	23 52.07	+ 5 49.2	4.322	5.098	8.0	19.9	8 9	23 51.70	+ 8 24.8	3.995	4.761	8.7	20.0
8 19	23 48.83	+ 5 46.3	4.218	5.088	6.4	19.7	8 19	23 48.65	+ 8 20.2	3.893	4.753	7.1	19.9
8 29	23 44.70	+ 5 36.0	4.138	5.079	4.6	19.6	8 29	23 44.64	+ 8 6.5	3.813	4.745	5.2	19.7
9 8	23 39.94	+ 5 19.1	4.085	5.069	2.7	19.5	9 8	23 39.94	+ 7 44.5	3.760	4.737	3.3	19.6
9 18	23 34.85	+ 4 57.1	4.061	5.060	1.4	19.4	9 18	23 34.90	+ 7 15.6	3.735	4.729	2.0	19.5
9 28	23 29.80	+ 4 31.9	4.067	5.050	2.4	19.4	9 28	23 29.90	+ 6 42.2	3.740	4.722	2.7	19.5
10 8	23 25.16	+ 4 5.9	4.102	5.041	4.3	19.6	10 8	23 25.35	+ 6 6.8	3.774	4.714	4.6	19.7
10 18	23 21.24	+ 3 41.2	4.166	5.031	6.2	19.7	10 18	23 21.58	+ 5 32.3	3.836	4.707	6.5	19.8
<b>453474</b>	2009 <i>SL</i> <sub>208</sub>	9 16.1 145°52		2°1/13.9 18			<b>395753</b>	2012 <i>VH</i> <sub>21</sub>	9 16.1 211°88		5°1/10.8 18		
8 9	0 1.11	- 8 29.3	2.451	3.285	11.7	21.1	8 9	0 3.99	-16 27.9	2.238	3.083	12.3	21.3
8 19	23 56.39	- 8 48.8	2.374	3.288	9.0	21.0	8 19	23 58.91	-17 19.7	2.162	3.077	9.6	21.1
8 29	23 49.99	- 9 13.0	2.321	3.290	5.9	20.8	8 29	23 51.84	-18 12.3	2.109	3.070	7.0	21.0
9 8	23 42.41	- 9 37.9	2.294	3.292	3.0	20.6	9 8	23 43.33	-18 59.5	2.082	3.063	5.2	20.9
9 18	23 34.28	- 9 59.6	2.296	3.293	2.5	20.6	9 18	23 34.12	-19 35.2	2.083	3.056	5.8	20.9
9 28	23 26.35	-10 14.4	2.327	3.295	5.3	20.8	9 28	23 25.11	-19 54.8	2.113	3.047	8.1	21.0
10 8	23 19.35	-10 19.4	2.386	3.297	8.4	21.0	10 8	23 17.17	-19 55.7	2.168	3.039	10.9	21.2
10 18	23 13.84	-10 13.2	2.469	3.298	11.1	21.1	10 18	23 10.98	-19 37.9	2.246	3.030	13.5	21.3
<b>429686</b>	2011 <i>HJ</i> <sub>25</sub>	9 16.1 358°23		16°2/30.1 18			<b>360992</b>	2005 <i>UZ</i> <sub>386</sub>	9 16.1 50°08		5°6/10.5 18		
8 9	23 54.07	-33 15.8	1.124	2.012	18.7	18.7	8 9	0 1.81	-17 51.8	2.108	2.961	12.6	20.8
8 19	23 53.20	-35 47.5	1.093	2.006	17.0	18.6	8 19	23 57.24	-18 40.3	2.045	2.963	9.9	20.7
8 29	23 48.95	-37 59.4	1.081	2.002	16.2	18.6	8 29	23 50.70	-19 27.9	2.005	2.966	7.3	20.5
9 8	23 42.19	-39 35.5	1.088	2.000	16.7	18.6	9 8	23 42.78	-20 8.3	1.990	2.969	5.7	20.4
9 18	23 34.33	-40 24.3	1.113	2.000	18.3	18.7	9 18	23 34.25	-20 35.5	2.003	2.971	6.3	20.5
9 28	23 27.08	-40 21.0	1.155	2.001	20.3	18.8	9 28	23 26.03	-20 45.4	2.042	2.974	8.5	20.6
10 8	23 21.92	-39 28.8	1.211	2.004	22.5	19.0	10 8	23 18.97	-20 36.1	2.106	2.977	11.2	20.8
10 18	23 19.72	-37 55.5	1.280	2.008	24.5	19.2	10 18	23 13.69	-20 8.1	2.193	2.980	13.7	21.0
<b>163840</b>	2003 <i>SG</i> <sub>47</sub>	9 16.1 320°75		5°3/19.6 18			<b>94033</b>	2000 <i>XS</i> <sub>41</sub>	9 16.1 190°36		0°9/17.1 18		
8 9	0 2.47	+ 8 1.6	1.536	2.342	18.6	19.8	8 9	0 3.48	+ 0 54.9	2.638	3.435	12.0	19.6
8 19	23 58.86	+ 9 0.8	1.442	2.325	15.5	19.6	8 19	23 58.16	+ 1 4.5	2.546	3.434	9.4	19.4
8 29	23 52.50	+ 9 43.8	1.366	2.307	11.8	19.3	8 29	23 51.18	+ 1 5.4	2.478	3.432	6.5	19.2
9 8	23 43.88	+10 8.5	1.313	2.291	8.0	19.1	9 8	23 43.00	+ 0 59.1	2.437	3.431	3.3	19.0
9 18	23 33.90	+10 14.5	1.283	2.275	5.4	18.9	9 18	23 34.21	+ 0 47.9	2.425	3.429	1.0	18.9
9 28	23 23.84	+10 4.3	1.279	2.259	6.9	18.9	9 28	23 25.54	+ 0 34.8	2.443	3.426	3.9	19.1
10 8	23 15.07	+ 9 43.8	1.299	2.245	10.8	19.1	10 8	23 17.72	+ 0 23.0	2.491	3.424	7.0	19.3
10 18	23 8.68	+ 9 19.9	1.342	2.231	15.0	19.3	10 18	23 11.31	+ 0 15.4	2.566	3.421	9.9	19.5
<b>512395</b>	2016 <i>OK</i> <sub>6</sub>	9 16.1 133°05		1°4/17.7 18			<b>373758</b>	2002 <i>TF</i> <sub>187</sub>	9 16.1 3°35		4°2/19.1 17		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>220876</b>	2004 <i>XE</i> <sub>23</sub>		9 16.1 293°81	8°0/25.2	17		<b>365664</b>	2010 <i>VM</i> <sub>46</sub>		9 16.1 88°11	8°0/ 7.2	18	
8 9	23 58.36	+22 54.9	2.370	3.061	15.8	20.2	8 9	0 4.31	-28 3.1	2.346	3.184	12.0	20.6
8 19	23 54.82	+23 42.1	2.261	3.043	14.1	20.0	8 19	23 58.95	-29 3.7	2.303	3.198	10.0	20.5
8 29	23 49.33	+24 9.2	2.170	3.025	12.0	19.8	8 29	23 51.70	-29 55.9	2.284	3.211	8.5	20.4
9 8	23 42.30	+24 13.4	2.099	3.007	10.0	19.6	9 8	23 43.20	-30 33.1	2.289	3.224	8.0	20.4
9 18	23 34.34	+23 53.3	2.052	2.989	8.4	19.5	9 18	23 34.23	-30 50.4	2.321	3.237	8.7	20.5
9 28	23 26.31	+23 10.1	2.031	2.971	8.1	19.5	9 28	23 25.70	-30 44.9	2.378	3.250	10.2	20.6
10 8	23 19.10	+22 8.5	2.035	2.953	9.2	19.5	10 8	23 18.40	-30 16.9	2.459	3.262	12.0	20.7
10 18	23 13.47	+20 55.2	2.064	2.935	11.3	19.6	10 18	23 12.90	-29 28.8	2.560	3.275	13.8	20.9
<b>255018</b>	2005 <i>TK</i> <sub>48</sub>		9 16.1 315°30	4°2/20.8	18		<b>419274</b>	2009 <i>WY</i> <sub>3</sub>		9 16.1 271°54	2°2/14.1	18	
8 9	23 55.94	+12 15.3	2.054	2.830	15.6	20.3	8 9	0 0.55	- 4 53.7	1.676	2.524	15.5	21.9
8 19	23 52.95	+12 14.3	1.960	2.822	13.0	20.1	8 19	23 56.99	- 5 39.2	1.587	2.508	12.1	21.6
8 29	23 48.03	+11 53.1	1.886	2.814	9.9	19.9	8 29	23 51.01	- 6 37.6	1.520	2.493	8.0	21.4
9 8	23 41.66	+11 12.0	1.834	2.806	6.7	19.7	9 8	23 43.13	- 7 43.3	1.477	2.477	3.8	21.1
9 18	23 34.51	+10 13.3	1.808	2.798	4.4	19.5	9 18	23 34.20	- 8 49.0	1.461	2.461	2.9	21.0
9 28	23 27.43	+ 9 2.0	1.810	2.791	5.2	19.5	9 28	23 25.35	- 9 46.5	1.472	2.445	7.2	21.2
10 8	23 21.31	+ 7 45.4	1.838	2.784	8.2	19.7	10 8	23 17.70	-10 28.9	1.507	2.429	11.6	21.4
10 18	23 16.83	+ 6 30.6	1.892	2.777	11.4	19.9	10 18	23 12.16	-10 52.4	1.565	2.413	15.5	21.6
<b>376196</b>	2011 <i>CD</i> <sub>73</sub>		9 16.1 215°97	0°9/15.3	18		<b>291459</b>	2006 <i>DP</i> <sub>54</sub>		9 16.1 328°96	0°9/15.4	17	
8 9	0 2.64	- 2 22.4	1.844	2.675	15.0	21.4	8 9	23 59.11	- 0 44.0	1.217	2.078	19.4	20.9
8 19	23 58.28	- 2 54.2	1.759	2.669	11.7	21.2	8 19	23 56.55	- 1 22.7	1.147	2.073	15.2	20.6
8 29	23 51.66	- 3 38.7	1.695	2.663	7.8	20.9	8 29	23 51.03	- 2 21.9	1.094	2.068	10.2	20.3
9 8	23 43.34	- 4 31.4	1.657	2.656	3.5	20.7	9 8	23 43.21	- 3 35.7	1.063	2.064	4.5	20.0
9 18	23 34.13	- 5 26.6	1.646	2.649	1.6	20.5	9 18	23 34.19	- 4 55.2	1.056	2.060	1.8	19.8
9 28	23 25.07	- 6 17.6	1.663	2.642	5.9	20.8	9 28	23 25.42	- 6 9.1	1.074	2.057	7.5	20.2
10 8	23 17.18	- 6 58.2	1.707	2.633	10.1	21.0	10 8	23 18.33	- 7 7.4	1.114	2.053	12.9	20.5
10 18	23 11.26	- 7 24.6	1.774	2.625	13.8	21.2	10 18	23 13.90	- 7 44.3	1.175	2.050	17.6	20.7
<b>314585</b>	2006 <i>AQ</i> <sub>9</sub>		9 16.1 208°85	4°4/10.5	18		<b>478469</b>	2012 <i>QJ</i> <sub>22</sub>		9 16.1 41°56	2°6/18.1	16	
8 9	23 57.71	-14 20.9	2.474	3.324	11.1	21.0	8 9	0 1.84	+ 4 41.2	1.294	2.129	20.0	21.2
8 19	23 53.87	-15 27.7	2.401	3.321	8.6	20.8	8 19	23 58.17	+ 4 52.1	1.241	2.147	15.9	21.0
8 29	23 48.39	-16 37.0	2.353	3.318	6.1	20.6	8 29	23 51.75	+ 4 42.1	1.206	2.166	11.2	20.8
9 8	23 41.74	-17 43.2	2.331	3.315	4.4	20.5	9 8	23 43.38	+ 4 13.7	1.193	2.185	6.2	20.6
9 18	23 34.52	-18 40.3	2.338	3.312	5.1	20.6	9 18	23 34.19	+ 3 32.0	1.203	2.205	2.6	20.4
9 28	23 27.46	-19 23.6	2.373	3.309	7.3	20.7	9 28	23 25.54	+ 2 44.5	1.239	2.226	5.9	20.7
10 8	23 21.26	-19 49.9	2.433	3.305	9.9	20.9	10 8	23 18.63	+ 1 59.6	1.299	2.247	10.5	21.0
10 18	23 16.50	-19 58.1	2.517	3.302	12.2	21.0	10 18	23 14.23	+ 1 23.9	1.381	2.269	14.7	21.3
<b>202535</b>	2006 <i>DX</i> <sub>43</sub>		9 16.1 74°45	0°4/15.8	18		<b>116505</b>	2004 <i>BN</i> <sub>25</sub>		9 16.1 154°28	0°7/15.5	17	
8 9	0 1.28	- 1 6.8	1.676	2.512	16.1	20.9	8 9	0 2.48	- 1 1.8	1.837	2.665	15.2	20.8
8 19	23 57.26	- 1 30.0	1.607	2.520	12.5	20.7	8 19	23 58.02	- 1 44.2	1.764	2.672	11.8	20.6
8 29	23 50.95	- 2 6.7	1.560	2.528	8.3	20.5	8 29	23 51.40	- 2 40.5	1.712	2.678	7.8	20.4
9 8	23 42.98	- 2 52.7	1.536	2.535	3.8	20.2	9 8	23 43.19	- 3 45.8	1.685	2.684	3.5	20.1
9 18	23 34.24	- 3 42.3	1.539	2.543	1.1	20.0	9 18	23 34.23	- 4 53.8	1.686	2.689	1.4	20.0
9 28	23 25.82	- 4 28.5	1.569	2.551	5.7	20.4	9 28	23 25.53	- 5 57.2	1.715	2.694	5.7	20.3
10 8	23 18.73	- 5 5.4	1.625	2.559	10.0	20.6	10 8	23 18.07	- 6 49.8	1.771	2.698	9.8	20.5
10 18	23 13.70	- 5 29.1	1.705	2.567	13.7	20.9	10 18	23 12.55	- 7 27.3	1.851	2.702	13.3	20.8
<b>251558</b>	2009 <i>DD</i> <sub>18</sub>		9 16.1 135°00	1°5/17.3	17		<b>428547</b>	2008 <i>CF</i> <sub>41</sub>		9 16.1 142°32	3°4/19.2	17	
8 9	0 7.49	+ 2 22.4	1.611	2.427	17.5	20.7	8 9	0 6.31	+ 7 57.9	1.899	2.682	16.4	21.7
8 19	0 2.19	+ 2 25.7	1.540	2.437	13.9	20.5	8 19	0 0.95	+ 8 13.0	1.822	2.693	13.4	21.5
8 29	23 54.31	+ 2 13.4	1.489	2.447	9.6	20.2	8 29	23 53.35	+ 8 10.7	1.765	2.703	9.8	21.3
9 8	23 44.54	+ 1 47.7	1.462	2.457	4.9	20.0	9 8	23 44.08	+ 7 51.9	1.732	2.713	6.0	21.1
9 18	23 33.89	+ 1 13.0	1.462	2.465	1.5	19.8	9 18	23 34.02	+ 7 18.9	1.726	2.722	3.5	21.0
9 28	23 23.59	+ 0 35.4	1.489	2.474	5.5	20.1	9 28	23 24.23	+ 6 36.7	1.749	2.731	5.2	21.1
10 8	23 14.82	+ 0 1.3	1.543	2.482	10.0	20.4	10 8	23 15.70	+ 5 51.6	1.799	2.739	8.8	21.4
10 18	23 8.39	- 0 24.2	1.620	2.489	14.0	20.6	10 18	23 9.19	+ 5 9.5	1.874	2.746	12.2	21.6
<b>346644</b>	2008 <i>XC</i> <sub>22</sub>		9 16.1 230°88	5°6/ 9.8	18		<b>129156</b>	2005 <i>EN</i> <sub>264</sub>		9 16.1 207°78	0°8/17.1	18	
8 9	0 2.35	-17 23.6	2.234	3.082	12.1	21.6	8 9	23 58.99	+ 3 6.0	2.139	2.949	13.9	21.0
8 19	23 57.73	-18 29.7	2.155	3.071	9.6	21.4	8 19	23 55.13	+ 2 37.1	2.050	2.945	11.0	20.8
8 29	23 51.12	-19 36.8	2.100	3.060	7.1	21.3	8 29	23 49.40	+ 1 53.4	1.984	2.942	7.6	20.6
9 8	23 43.05	-20 38.2	2.071	3.047	5.7	21.2	9 8	23 42.28	+ 0 57.8	1.943	2.938	3.8	20.3
9 18	23 34.22	-21 27.2	2.070	3.035	6.4	21.2	9 18	23 34.44	- 0 5.2	1.929	2.933	0.9	20.1
9 28	23 25.55	-21 58.4	2.096	3.022	8.7	21.3	9 28	23 26.72	- 1 9.8	1.945	2.929	4.5	20.4
10 8	23 17.90	-22 8.9	2.147	3.008	11.5	21.5	10 8	23 19.97	- 2 9.6	1.988	2.924	8.3	20.6
10 18	23 11.97	-21 58.7	2.221	2.994	14.0	21.6	10 18	23 14.83	- 2 59.7	2.056	2.919	11.7	20.8
<b>195351</b>	2002 <i>EH</i> <sub>157</sub>		9 16.1 307°46	0°9/17.9	16		<b>20490</b>	1999 <i>OW</i> <sub>2</sub>		9 16.1 319°07	11°9/23.7	18	
8 9	23 51.72	+ 3 35.5	4.280	5.068	7.9	20.8	8 9	0 6.81	+21 22.1	1.667	2.387	20.6	16.8
8 19	23 48.57	+ 3 25.7	4.184	5.064	6.2	20.7	8 19	0 2.47	+23 25.9	1.573	2.372	18.5	16.6
8 29	23 44.55	+ 3 9.0	4.112	5.061	4.3	20.6	8 29	23 55.14	+25 10.3	1.495	2.358	16.1	16.4
9 8	23 39.91	+ 2 46.5	4.067	5.057	2.3	20.4	9 8	23 45.26	+26 28.4	1.438	2.345	13.7	16.2
9 18	23 34.96	+ 2 20.0	4.052	5.054	0.9	20.3	9 18	23 33.69	+27 14.0	1.403	2.332	12.1	16.1
9 28	23 30.07	+ 1 51.7	4.066	5.050	2.4	20.4	9 28	23 21.83	+27 24.9	1.391	2.319	12.0	16.1
10 8	23 25.60	+ 1 23.8	4.110	5.047	4.4	20.6	10 8	23 11.20	+27 5.1	1.402	2.307	13.5	16.1
10 18	23 21.86	+ 0 58.6	4.182	5.044	6.3	20.7	10 18	23 3.08	+26 22.9	1.434	2.296	15.8	16.3
<b>62860</b>	2000 <i>U</i>												

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>400220</b>	2007 <i>CO</i> <sub>79</sub>		9 16.1 144°26'	6°2/ 6.4	18		<b>451378</b>	2011 <i>AM</i> <sub>79</sub>		9 16.1 295°63'	9°7/ 2.4	18	
8 9	23 57.73	-20 52.0	2.601	3.452	10.5	21.0	8 9	23 59.28	-31 15.2	2.249	3.094	12.2	20.5
8 19	23 53.86	-22 41.6	2.547	3.459	8.5	20.9	8 19	23 55.58	-32 57.0	2.192	3.081	10.7	20.4
8 29	23 48.38	-24 29.4	2.519	3.466	6.8	20.8	8 29	23 49.81	-34 30.4	2.158	3.068	9.8	20.3
9 8	23 41.75	-26 8.4	2.519	3.473	6.3	20.8	9 8	23 42.50	-35 46.7	2.149	3.055	9.8	20.3
9 18	23 34.57	-27 32.0	2.547	3.479	7.2	20.9	9 18	23 34.43	-36 39.2	2.163	3.043	10.9	20.4
9 28	23 27.58	-28 35.1	2.602	3.486	9.0	21.0	9 28	23 26.55	-37 3.2	2.201	3.030	12.5	20.5
10 8	23 21.45	-29 15.7	2.681	3.491	11.0	21.1	10 8	23 19.79	-36 58.1	2.259	3.018	14.3	20.6
10 18	23 16.73	-29 33.8	2.782	3.497	12.8	21.3	10 18	23 14.85	-36 25.8	2.334	3.005	16.0	20.7
<b>159258</b>	2005 <i>YC</i> <sub>145</sub>		9 16.1 178°37'	1°0/14.8	18		<b>335500</b>	2005 <i>YQ</i> <sub>29</sub>		9 16.1 21°89'	1°8/14.8	16	
8 9	23 57.76	- 3 55.1	2.734	3.558	10.9	21.0	8 9	23 57.75	- 3 11.2	1.195	2.066	19.1	20.3
8 19	23 53.70	- 4 29.9	2.651	3.559	8.4	20.9	8 19	23 55.30	- 3 48.4	1.140	2.073	14.7	20.1
8 29	23 48.19	- 5 12.3	2.593	3.560	5.5	20.7	8 29	23 50.02	- 4 41.7	1.104	2.081	9.7	19.8
9 8	23 41.65	- 5 58.8	2.561	3.560	2.5	20.5	9 8	23 42.68	- 5 44.1	1.089	2.090	4.3	19.6
9 18	23 34.60	- 6 45.6	2.559	3.560	1.5	20.4	9 18	23 34.40	- 6 46.7	1.098	2.100	2.5	19.5
9 28	23 27.69	- 7 28.3	2.586	3.560	4.4	20.6	9 28	23 26.60	- 7 39.7	1.131	2.112	7.6	19.8
10 8	23 21.54	- 8 3.2	2.641	3.560	7.3	20.8	10 8	23 20.51	- 8 15.7	1.186	2.124	12.5	20.2
10 18	23 16.64	- 8 27.8	2.722	3.559	10.0	21.0	10 18	23 16.97	- 8 31.1	1.263	2.137	16.7	20.4
<b>12389</b>	1994 <i>WU</i>		9 16.1 156°58'	4°8/23.0	18		<b>208125</b>	2000 <i>DC</i> <sub>49</sub>		9 16.2 302°29'	2°6/17.9	18	
8 9	23 58.06	+17 32.5	2.827	3.542	13.0	18.5	8 9	0 4.02	+ 3 9.6	1.750	2.564	16.4	20.4
8 19	23 53.99	+17 39.7	2.735	3.548	11.1	18.3	8 19	23 59.69	+ 3 42.8	1.653	2.547	13.3	20.2
8 29	23 48.42	+17 29.8	2.664	3.553	8.9	18.2	8 29	23 52.86	+ 4 3.3	1.576	2.530	9.5	19.9
9 8	23 41.77	+17 2.7	2.616	3.558	6.7	18.0	9 8	23 44.05	+ 4 11.3	1.523	2.513	5.4	19.7
9 18	23 34.58	+16 19.5	2.595	3.563	5.1	18.0	9 18	23 34.06	+ 4 8.7	1.495	2.496	2.6	19.4
9 28	23 27.51	+15 23.4	2.602	3.567	5.1	18.0	9 28	23 24.06	+ 3 58.9	1.495	2.480	5.5	19.6
10 8	23 21.19	+14 19.1	2.638	3.571	6.7	18.1	10 8	23 15.22	+ 3 46.9	1.522	2.464	9.8	19.8
10 18	23 16.15	+13 11.9	2.701	3.575	8.8	18.2	10 18	23 8.49	+ 3 37.7	1.572	2.448	13.9	20.0
<b>133044</b>	2003 <i>BM</i> <sub>46</sub>		9 16.1 253°57'	5°6/10.4	16		<b>317228</b>	2002 <i>CY</i> <sub>166</sub>		9 16.2 121°59'	1°6/14.6	17	
8 9	23 56.95	- 2 10.7	1.136	2.009	19.7	19.9	8 9	0 3.19	- 4 44.0	1.991	2.823	14.0	21.1
8 19	23 55.21	- 5 13.2	1.062	1.999	15.1	19.6	8 19	23 58.32	- 5 19.2	1.925	2.837	10.8	21.0
8 29	23 50.38	- 8 51.0	1.009	1.989	9.9	19.3	8 29	23 51.45	- 6 3.5	1.882	2.850	7.1	20.8
9 8	23 43.04	-12 47.7	0.981	1.979	5.8	19.0	9 8	23 43.18	- 6 52.0	1.864	2.863	3.2	20.6
9 18	23 34.25	-16 40.0	0.980	1.969	7.6	19.1	9 18	23 34.30	- 7 39.2	1.875	2.876	2.1	20.5
9 28	23 25.58	-20 3.1	1.006	1.958	12.8	19.3	9 28	23 25.75	- 8 19.5	1.914	2.888	5.7	20.8
10 8	23 18.59	-22 40.4	1.053	1.947	18.0	19.6	10 8	23 18.39	- 8 48.4	1.980	2.900	9.4	21.0
10 18	23 14.42	-24 26.1	1.120	1.935	22.4	19.9	10 18	23 12.86	- 9 3.5	2.071	2.911	12.5	21.2
<b>185765</b>	1999 <i>TV</i> <sub>106</sub>		9 16.1 346°13'	4°6/21.1	18		<b>84226</b>	2002 <i>SQ</i> <sub>4</sub>		9 16.2 266°17'	0°1/16.1	18	
8 9	23 50.70	+13 14.6	1.595	2.394	18.3	19.4	8 9	23 58.69	+ 1 43.3	1.569	2.405	17.0	19.9
8 19	23 49.44	+12 57.9	1.506	2.383	15.3	19.1	8 19	23 55.64	+ 0 57.9	1.486	2.397	13.4	19.6
8 29	23 45.98	+12 13.2	1.436	2.372	11.8	18.9	8 29	23 50.14	- 0 7.4	1.423	2.390	9.1	19.4
9 8	23 40.84	+11 0.8	1.387	2.363	7.9	18.6	9 8	23 42.76	- 1 28.0	1.383	2.382	4.2	19.1
9 18	23 34.77	+ 9 24.8	1.361	2.355	4.9	18.4	9 18	23 34.38	- 2 56.8	1.370	2.374	1.0	18.8
9 28	23 28.82	+ 7 33.1	1.362	2.348	5.7	18.5	9 28	23 26.13	- 4 24.1	1.383	2.366	6.1	19.2
10 8	23 24.00	+ 5 37.2	1.387	2.342	9.4	18.7	10 8	23 19.16	- 5 40.6	1.422	2.359	10.9	19.4
10 18	23 21.13	+ 3 47.9	1.437	2.337	13.4	18.9	10 18	23 14.35	- 6 39.7	1.484	2.351	15.1	19.6
<b>520280</b>	2014 <i>ET</i> <sub>233</sub>		9 16.1 318°54'	1°3/17.3	18		<b>100165</b>	1993 <i>TN</i> <sub>41</sub>		9 16.2 289°51'	0°5/15.6	18	
8 9	23 58.48	+ 3 23.8	1.687	2.513	16.4	21.7	8 9	23 57.70	- 0 26.8	1.897	2.730	14.6	19.8
8 19	23 55.26	+ 3 5.9	1.605	2.508	13.1	21.5	8 19	23 54.36	- 1 9.9	1.816	2.728	11.4	19.6
8 29	23 49.76	+ 2 30.2	1.543	2.503	9.1	21.2	8 29	23 49.00	- 2 7.4	1.757	2.725	7.6	19.3
9 8	23 42.54	+ 1 39.5	1.504	2.499	4.6	21.0	9 8	23 42.14	- 3 14.8	1.724	2.723	3.4	19.1
9 18	23 34.41	+ 0 38.8	1.491	2.494	1.3	20.7	9 18	23 34.53	- 4 26.1	1.717	2.721	1.2	18.9
9 28	23 26.43	- 0 24.7	1.504	2.490	5.3	21.0	9 28	23 27.09	- 5 34.1	1.738	2.718	5.4	19.2
10 8	23 19.66	- 1 23.3	1.544	2.486	9.7	21.3	10 8	23 20.72	- 6 32.2	1.785	2.716	9.5	19.5
10 18	23 14.89	- 2 10.8	1.607	2.483	13.7	21.5	10 18	23 16.12	- 7 15.7	1.857	2.714	13.0	19.7
<b>117205</b>	2004 <i>RO</i> <sub>192</sub>		9 16.1 77°72'	4°0/20.7	18		<b>354342</b>	2003 <i>FB</i> <sub>85</sub>		9 16.2 129°12'	1°5/19.3	18	
8 9	23 58.84	+11 23.1	2.275	3.043	14.5	19.3	8 9	23 51.29	+ 7 18.2	4.532	5.300	7.8	20.5
8 19	23 54.90	+11 36.3	2.192	3.048	12.0	19.1	8 19	23 48.20	+ 7 9.3	4.438	5.302	6.2	20.3
8 29	23 49.18	+11 32.8	2.129	3.054	9.1	19.0	8 29	23 44.30	+ 6 52.6	4.368	5.303	4.5	20.2
9 8	23 42.17	+11 12.8	2.089	3.059	6.2	18.8	9 8	23 39.82	+ 6 29.1	4.325	5.305	2.8	20.1
9 18	23 34.50	+10 38.1	2.077	3.065	4.1	18.7	9 18	23 35.07	+ 6 0.3	4.310	5.307	1.5	20.0
9 28	23 27.00	+ 9 52.8	2.092	3.071	4.9	18.8	9 28	23 30.38	+ 5 28.2	4.326	5.309	2.3	20.1
10 8	23 20.42	+ 9 2.1	2.135	3.076	7.5	18.9	10 8	23 26.09	+ 4 55.1	4.372	5.311	4.1	20.2
10 18	23 15.39	+ 8 11.8	2.203	3.082	10.3	19.1	10 18	23 22.49	+ 4 23.2	4.445	5.312	5.8	20.3
<b>20398</b>	1998 <i>NQ</i>		9 16.1 198°79'	7°8/ 7.4	18		<b>342175</b>	2008 <i>SK</i> <sub>182</sub>		9 16.2 59°37'	6°4/11.8	16	
8 9	0 0.52	-20 47.0	1.865	2.727	13.6	18.9	8 9	0 8.71	-17 0.4	1.477	2.336	16.6	20.8
8 19	23 56.66	-22 26.5	1.807	2.726	10.9	18.7	8 19	0 3.06	-17 39.3	1.434	2.357	13.0	20.6
8 29	23 50.57	-24 4.4	1.772	2.726	8.7	18.6	8 29	23 54.75	-18 16.4	1.413	2.378	9.3	20.4
9 8	23 42.85	-25 31.3	1.763	2.725	7.8	18.6	9 8	23 44.67	-18 43.5	1.415	2.400	6.6	20.4
9 18	23 34.35	-26 38.4	1.778	2.723	8.9	18.6	9 18	23 34.00	-18 53.9	1.443	2.422	7.0	20.4
9 28	23 26.14	-27 19.6	1.819	2.722	11.2	18.8	9 28	23 24.09	-18 43.4	1.497	2.443	9.9	20.7
10 8	23 19.20	-27 32.7	1.883	2.721	13.8	18.9	10 8	23 16.04	-18 11.5	1.574	2.465	13.2	20.9
10 18	23 14.25	-27 18.8	1.967	2.719	16.2	19.1	10 18	23 10.52	-17 20.8	1.673	2.487	16.2	21.2
<b>16687</b>	1994 <i>PN</i> <sub>20</sub>		9 16.1 11°31'	0°4/16.5	18		<b>367587</b>	2009 <i>SP</i>					

EPHEMERIDES

9 16.2

9 16.2

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>86122</b>	1999 <i>RH</i> <sub>144</sub>		9 16.2 29°35'	2.4/18.9	18		<b>469936</b>	2006 <i>AN</i> <sub>75</sub>		9 16.2 285°61'	3.7/12.7	18	
8 9	23 55.42	+ 8 2.4	1.933	2.736	15.5	19.2	8 9	23 59.60	- 8 5.1	1.648	2.506	15.3	21.6
8 19	23 52.54	+ 7 34.8	1.856	2.741	12.5	19.0	8 19	23 56.19	- 9 7.7	1.575	2.501	11.8	21.4
8 29	23 47.74	+ 6 47.6	1.798	2.746	9.0	18.8	8 29	23 50.42	-10 20.4	1.522	2.496	7.8	21.2
9 8	23 41.56	+ 5 43.2	1.765	2.752	5.2	18.6	9 8	23 42.88	-11 36.0	1.495	2.492	4.3	20.9
9 18	23 34.71	+ 4 26.3	1.758	2.758	2.4	18.4	9 18	23 34.45	-12 46.1	1.493	2.487	4.4	20.9
9 28	23 28.06	+ 3 3.9	1.778	2.765	4.6	18.6	9 28	23 26.23	-13 42.4	1.518	2.482	8.1	21.1
10 8	23 22.45	+ 1 43.6	1.826	2.771	8.2	18.8	10 8	23 19.30	-14 19.2	1.567	2.477	12.0	21.4
10 18	23 18.51	+ 0 32.0	1.899	2.778	11.7	19.0	10 18	23 14.45	-14 34.1	1.639	2.472	15.6	21.6
<b>157875</b>	1999 <i>JF</i> <sub>49</sub>		9 16.2 104°60'	4.5/12.2	18		<b>290850</b>	2005 <i>WB</i> <sub>33</sub>		9 16.2 192°74'	4.9/22.9	18	
8 9	0 5.02	-12 26.3	1.805	2.654	14.5	19.9	8 9	23 58.20	+17 25.3	2.841	3.556	13.0	20.8
8 19	23 59.90	-13 18.0	1.750	2.670	11.2	19.7	8 19	23 54.17	+17 35.0	2.742	3.554	11.1	20.6
8 29	23 52.57	-14 13.1	1.718	2.686	7.6	19.6	8 29	23 48.61	+17 27.8	2.663	3.552	8.9	20.5
9 8	23 43.72	-15 4.5	1.711	2.702	4.8	19.4	9 8	23 41.94	+17 3.5	2.608	3.550	6.7	20.3
9 18	23 34.25	-15 45.5	1.731	2.717	5.1	19.5	9 18	23 34.68	+16 22.9	2.579	3.547	5.1	20.2
9 28	23 25.23	-16 10.6	1.779	2.732	8.1	19.7	9 28	23 27.49	+15 29.0	2.579	3.544	5.1	20.2
10 8	23 17.61	-16 17.1	1.852	2.746	11.3	19.9	10 8	23 21.03	+14 26.3	2.607	3.540	6.7	20.3
10 18	23 12.06	-16 4.8	1.947	2.760	14.3	20.2	10 18	23 15.84	+13 20.3	2.663	3.536	8.9	20.5
<b>289543</b>	2005 <i>EO</i> <sub>222</sub>		9 16.2 126°99'	3.7/12.7	18		<b>39826</b>	1998 <i>BY</i> <sub>2</sub>		9 16.2 255°47'	0.4/15.9	18	
8 9	0 3.03	-11 12.5	1.996	2.842	13.5	20.7	8 9	0 3.47	- 1 22.6	1.529	2.368	17.2	18.5
8 19	23 58.28	-11 53.6	1.929	2.849	10.4	20.6	8 19	23 59.50	- 1 40.6	1.444	2.358	13.5	18.2
8 29	23 51.48	-12 38.8	1.886	2.855	7.0	20.4	8 29	23 52.85	- 2 13.6	1.379	2.347	9.1	18.0
9 8	23 43.24	-13 22.5	1.868	2.862	4.1	20.2	9 8	23 44.09	- 2 57.5	1.338	2.337	4.2	17.7
9 18	23 34.36	-13 58.6	1.878	2.868	4.3	20.2	9 18	23 34.18	- 3 46.5	1.322	2.326	1.2	17.4
9 28	23 25.78	-14 22.2	1.915	2.874	7.2	20.4	9 28	23 24.39	- 4 33.0	1.333	2.315	6.4	17.7
10 8	23 18.40	-14 30.0	1.979	2.879	10.4	20.6	10 8	23 15.98	- 5 9.8	1.369	2.304	11.4	18.0
10 18	23 12.87	-14 21.4	2.066	2.885	13.4	20.9	10 18	23 9.93	- 5 32.0	1.427	2.293	15.7	18.2
<b>225223</b>	2008 <i>SV</i> <sub>36</sub>		9 16.2 298°27'	0.1/16.4	16		<b>113860</b>	2002 <i>TE</i> <sub>254</sub>		9 16.2 299°40'	1.9/14.3	18	
8 9	23 51.46	- 0 10.3	4.151	4.958	7.8	21.0	8 9	23 59.37	- 5 14.2	1.852	2.697	14.4	19.6
8 19	23 48.46	- 0 30.4	4.051	4.946	6.0	20.9	8 19	23 55.76	- 5 50.9	1.771	2.690	11.1	19.4
8 29	23 44.54	- 0 56.6	3.975	4.935	4.1	20.7	8 29	23 50.01	- 6 37.9	1.712	2.684	7.3	19.1
9 8	23 39.98	- 1 27.4	3.926	4.923	1.9	20.6	9 8	23 42.67	- 7 30.2	1.678	2.677	3.4	18.9
9 18	23 35.09	- 2 0.6	3.907	4.912	0.4	20.4	9 18	23 34.51	- 8 21.6	1.670	2.671	2.5	18.8
9 28	23 30.25	- 2 33.7	3.919	4.900	2.6	20.6	9 28	23 26.52	- 9 5.7	1.690	2.664	6.3	19.1
10 8	23 25.82	- 3 4.3	3.959	4.889	4.8	20.7	10 8	23 19.65	- 9 37.1	1.736	2.658	10.3	19.3
10 18	23 22.13	- 3 30.3	4.027	4.878	6.7	20.9	10 18	23 14.63	- 9 52.8	1.805	2.652	13.8	19.5
<b>326857</b>	2003 <i>UT</i> <sub>192</sub>		9 16.2 191°38'	12.5/ 4.4	17		<b>516024</b>	2015 <i>SS</i> <sub>16</sub>		9 16.2 340°54'	6.8/11.6	18	
8 9	0 17.30	-37 23.1	1.907	2.717	15.4	20.8	8 9	0 12.86	-22 35.8	1.937	2.774	14.2	20.3
8 19	0 9.87	-38 45.4	1.860	2.716	13.8	20.7	8 19	0 6.05	-22 44.0	1.863	2.767	11.5	20.1
8 29	23 59.44	-39 51.1	1.834	2.715	12.7	20.6	8 29	23 56.76	-22 45.3	1.811	2.761	8.8	19.9
9 8	23 46.91	-40 29.7	1.831	2.712	12.6	20.6	9 8	23 45.69	-22 33.3	1.784	2.755	6.9	19.8
9 18	23 33.56	-40 34.0	1.851	2.709	13.4	20.7	9 18	23 33.86	-22 3.0	1.785	2.750	7.3	19.8
9 28	23 20.92	-40 1.2	1.894	2.705	14.9	20.8	9 28	23 22.49	-21 12.0	1.814	2.745	9.5	19.9
10 8	23 10.30	-38 54.1	1.957	2.701	16.7	20.9	10 8	23 12.67	-20 1.1	1.869	2.741	12.4	20.1
10 18	23 2.53	-37 18.8	2.037	2.695	18.4	21.0	10 18	23 5.16	-18 33.5	1.948	2.737	15.1	20.3
<b>511449</b>	2014 <i>JX</i> <sub>49</sub>		9 16.2 217°96'	1.0/14.9	18		<b>131124</b>	2001 <i>BT</i> <sub>22</sub>		9 16.2 256°47'	0.6/16.8	18	
8 9	23 57.67	- 1 7.5	2.302	3.126	12.6	21.9	8 9	0 0.55	+ 1 24.6	1.856	2.678	15.3	20.4
8 19	23 54.02	- 2 10.2	2.212	3.120	9.8	21.7	8 19	23 56.71	+ 1 8.7	1.768	2.671	12.1	20.2
8 29	23 48.65	- 3 25.8	2.145	3.112	6.5	21.5	8 29	23 50.69	+ 0 38.1	1.702	2.664	8.3	20.0
9 8	23 41.98	- 4 50.0	2.106	3.105	2.9	21.3	9 8	23 43.01	- 0 4.1	1.660	2.656	4.0	19.7
9 18	23 34.65	- 6 16.7	2.094	3.097	1.6	21.2	9 18	23 34.44	- 0 53.6	1.644	2.649	0.9	19.4
9 28	23 27.41	- 7 39.3	2.113	3.089	5.1	21.4	9 28	23 26.00	- 1 44.1	1.657	2.641	5.1	19.7
10 8	23 21.03	- 8 51.4	2.159	3.080	8.7	21.6	10 8	23 18.67	- 2 29.2	1.696	2.633	9.4	20.0
10 18	23 16.12	- 9 48.9	2.231	3.071	11.8	21.8	10 18	23 13.22	- 3 4.0	1.759	2.625	13.1	20.2
<b>247427</b>	2002 <i>CQ</i> <sub>291</sub>		9 16.2 325°01'	2.8/13.7	18		<b>320156</b>	2007 <i>FP</i> <sub>28</sub>		9 16.2 135°82'	0.4/16.7	18	
8 9	0 3.83	-10 19.0	2.102	2.942	13.1	19.9	8 9	23 57.88	+ 1 13.7	2.312	3.127	12.9	21.7
8 19	23 58.86	-10 33.6	2.024	2.940	10.1	19.7	8 19	23 54.11	+ 0 50.7	2.230	3.129	10.1	21.5
8 29	23 51.88	-10 51.9	1.969	2.938	6.8	19.5	8 29	23 48.65	+ 0 15.8	2.170	3.130	6.9	21.3
9 8	23 43.45	-11 9.4	1.941	2.937	3.6	19.3	9 8	23 41.97	- 0 28.2	2.135	3.132	3.3	21.0
9 18	23 34.33	-11 21.7	1.940	2.935	3.3	19.3	9 18	23 34.69	- 1 17.1	2.129	3.133	0.7	20.8
9 28	23 25.45	-11 24.7	1.968	2.934	6.3	19.5	9 28	23 27.57	- 2 6.1	2.151	3.135	4.2	21.1
10 8	23 17.69	-11 15.8	2.022	2.933	9.7	19.7	10 8	23 21.33	- 2 50.1	2.201	3.136	7.7	21.3
10 18	23 11.72	-10 54.1	2.101	2.931	12.7	19.9	10 18	23 16.56	- 3 25.3	2.277	3.137	10.8	21.5
<b>276183</b>	2002 <i>PX</i> <sub>160</sub>		9 16.2 95°04'	6.1/ 9.2	18		<b>207477</b>	2006 <i>HK</i> <sub>23</sub>		9 16.2 310°33'	1.9/14.4	18	
8 9	23 59.11	-15 8.5	1.847	2.709	13.7	20.2	8 9	23 59.89	- 4 44.8	1.728	2.575	15.2	20.7
8 19	23 55.46	-16 50.3	1.793	2.719	10.6	20.0	8 19	23 56.28	- 5 24.8	1.651	2.572	11.7	20.5
8 29	23 49.71	-18 34.8	1.763	2.729	7.7	19.9	8 29	23 50.41	- 6 16.2	1.597	2.569	7.7	20.2
9 8	23 42.46	-20 12.9	1.759	2.738	6.1	19.8	9 8	23 42.87	- 7 13.6	1.567	2.566	3.6	20.0
9 18	23 34.56	-21 35.6	1.781	2.748	7.1	19.9	9 18	23 34.49	- 8 10.2	1.563	2.564	2.6	19.9
9 28	23 26.97	-22 36.2	1.830	2.757	9.7	20.0	9 28	23 26.32	- 8 59.1	1.586	2.561	6.6	20.1
10 8	23 20.61	-23 11.2	1.903	2.767	12.6	20.3	10 8	23 19.37	- 9 34.2	1.635	2.559	10.7	20.4
10 18	23 16.13	-23 20.7	1.997	2.776	15.2	20.5	10 18	23 14.42	- 9 52.5	1.707	2.556	14.3	20.6
<b>4072</b>													

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>352962</b>	2009 <i>BX</i> <sub>45</sub>	9 16.2 208°96'		0°4/16.7 18			<b>479695</b>	2014 <i>DN</i> <sub>109</sub>	9 16.2 194°67'		3°6/12.6 18		
8 9	23 59.44	+ 1 40.5	2.165	2.979	13.7	22.0	8 9	0 5.78	-12 48.3	2.349	3.184	12.1	22.0
8 19	23 55.49	+ 1 12.2	2.077	2.975	10.8	21.8	8 19	0 0.19	-13 19.4	2.269	3.181	9.4	21.8
8 29	23 49.68	+ 0 30.2	2.011	2.971	7.3	21.6	8 29	23 52.70	-13 52.7	2.213	3.179	6.4	21.6
9 8	23 42.49	- 0 22.2	1.971	2.967	3.5	21.4	9 8	23 43.85	-14 23.5	2.184	3.175	4.0	21.5
9 18	23 34.59	- 1 20.7	1.958	2.963	0.7	21.1	9 18	23 34.35	-14 46.8	2.184	3.171	4.1	21.5
9 28	23 26.81	- 2 19.4	1.974	2.958	4.6	21.4	9 28	23 25.05	-14 58.6	2.213	3.167	6.7	21.6
10 8	23 19.98	- 3 12.6	2.018	2.952	8.3	21.7	10 8	23 16.80	-14 56.3	2.270	3.162	9.6	21.8
10 18	23 14.75	- 3 55.6	2.088	2.947	11.7	21.9	10 18	23 10.22	-14 39.5	2.351	3.157	12.4	22.0
<b>179149</b>	2001 <i>TT</i> <sub>16</sub>	9 16.2 310°03'		20°0/21.6 17			<b>60478</b>	2000 <i>DK</i> <sub>37</sub>	9 16.2 24°58'		1°4/14.8 18		
8 9	23 58.35	-37 31.8	1.002	1.884	21.0	19.4	8 9	23 58.59	- 3 12.7	1.709	2.555	15.4	19.3
8 19	23 57.65	-41 32.8	0.976	1.872	20.1	19.3	8 19	23 55.24	- 3 52.6	1.638	2.558	11.9	19.1
8 29	23 52.74	-45 8.1	0.969	1.860	20.4	19.3	8 29	23 49.69	- 4 45.2	1.589	2.561	7.8	18.9
9 8	23 44.37	-47 55.1	0.979	1.848	21.8	19.3	9 8	23 42.55	- 5 44.9	1.564	2.564	3.5	18.7
9 18	23 34.14	-49 38.4	1.004	1.837	23.9	19.5	9 18	23 34.63	- 6 45.4	1.566	2.568	2.1	18.6
9 28	23 24.41	-50 12.2	1.043	1.826	26.2	19.6	9 28	23 26.98	- 7 39.1	1.594	2.572	6.2	18.8
10 8	23 17.33	-49 41.8	1.092	1.816	28.3	19.7	10 8	23 20.55	- 8 20.3	1.648	2.576	10.3	19.1
10 18	23 14.15	-48 17.5	1.149	1.807	30.1	19.9	10 18	23 16.07	- 8 45.1	1.725	2.580	13.9	19.3
<b>167355</b>	2003 <i>WZ</i> <sub>30</sub>	9 16.2 62°91'		2°1/18.1 18			<b>360171</b>	2013 <i>CZ</i> <sub>102</sub>	9 16.2 245°36'		1°0/18.2 18		
8 9	23 59.86	+ 5 13.0	1.786	2.598	16.2	20.0	8 9	23 52.85	+ 4 1.4	4.884	5.662	7.1	21.1
8 19	23 56.16	+ 5 5.4	1.710	2.602	13.0	19.8	8 19	23 49.38	+ 3 59.4	4.779	5.653	5.6	21.0
8 29	23 50.28	+ 4 40.3	1.653	2.607	9.2	19.6	8 29	23 45.11	+ 3 51.4	4.699	5.644	4.0	20.9
9 8	23 42.80	+ 4 0.0	1.620	2.611	5.1	19.4	9 8	23 40.27	+ 3 38.3	4.646	5.634	2.2	20.7
9 18	23 34.52	+ 3 8.5	1.614	2.616	2.1	19.2	9 18	23 35.15	+ 3 21.3	4.623	5.624	1.0	20.6
9 28	23 26.48	+ 2 12.1	1.634	2.620	4.9	19.4	9 28	23 30.06	+ 3 2.2	4.631	5.614	2.2	20.7
10 8	23 19.62	+ 1 17.8	1.681	2.625	9.0	19.6	10 8	23 25.33	+ 2 42.9	4.669	5.605	3.9	20.8
10 18	23 14.69	+ 0 31.6	1.753	2.630	12.6	19.9	10 18	23 21.24	+ 2 25.2	4.735	5.595	5.6	21.0
<b>447113</b>	2004 <i>TM</i> <sub>237</sub>	9 16.2 356°36'		1°0/15.4 18			<b>431685</b>	2008 <i>DL</i> <sub>30</sub>	9 16.2 204°49'		0°3/15.9 17		
8 9	23 56.01	- 2 53.7	1.596	2.450	15.9	20.3	8 9	0 7.42	- 2 13.5	1.862	2.683	15.3	21.6
8 19	23 53.44	- 3 14.5	1.522	2.445	12.3	20.1	8 19	0 2.03	- 2 18.2	1.776	2.679	12.0	21.4
8 29	23 48.60	- 3 47.9	1.468	2.441	8.2	19.8	8 29	23 54.26	- 2 33.4	1.711	2.675	8.1	21.2
9 8	23 42.07	- 4 29.5	1.438	2.439	3.7	19.6	9 8	23 44.69	- 2 56.1	1.671	2.669	3.7	20.9
9 18	23 34.69	- 5 13.3	1.434	2.437	1.6	19.4	9 18	23 34.17	- 3 22.1	1.659	2.663	1.0	20.7
9 28	23 27.53	- 5 52.6	1.455	2.437	6.1	19.7	9 28	23 23.82	- 3 46.1	1.676	2.657	5.5	21.0
10 8	23 21.61	- 6 21.4	1.501	2.437	10.5	20.0	10 8	23 14.71	- 4 3.3	1.720	2.650	9.8	21.2
10 18	23 17.69	- 6 35.7	1.569	2.439	14.3	20.2	10 18	23 7.67	- 4 10.3	1.788	2.642	13.6	21.5
<b>275575</b>	1999 <i>TK</i> <sub>97</sub>	9 16.2 3°32'		7°9/10.5 18			<b>449081</b>	2012 <i>JS</i> <sub>25</sub>	9 16.2 260°56'		6°3/25.3 17		
8 9	23 48.76	-13 56.8	0.885	1.802	19.7	18.1	8 9	23 57.72	+23 18.8	2.911	3.583	13.5	22.0
8 19	23 49.19	-15 8.6	0.842	1.799	15.4	17.8	8 19	23 53.97	+23 27.6	2.788	3.560	11.9	21.8
8 29	23 46.39	-16 25.5	0.815	1.798	11.0	17.6	8 29	23 48.63	+23 17.1	2.684	3.536	10.1	21.6
9 8	23 41.20	-17 34.2	0.808	1.801	8.1	17.5	9 8	23 42.05	+22 45.8	2.601	3.512	8.2	21.5
9 18	23 34.91	-18 21.7	0.821	1.807	9.1	17.6	9 18	23 34.75	+21 53.4	2.544	3.487	6.7	21.3
9 28	23 29.15	-18 38.3	0.853	1.815	13.0	17.8	9 28	23 27.40	+20 42.2	2.515	3.462	6.4	21.3
10 8	23 25.32	-18 20.8	0.903	1.826	17.2	18.1	10 8	23 20.71	+19 16.9	2.513	3.436	7.5	21.3
10 18	23 24.28	-17 31.5	0.971	1.839	21.1	18.4	10 18	23 15.28	+17 43.7	2.539	3.410	9.4	21.4
<b>511877</b>	2015 <i>GB</i> <sub>35</sub>	9 16.2 218°44'		1°2/15.1 18			<b>522748</b>	2016 <i>MJ</i> <sub>4</sub>	9 16.2 344°32'		5°7/20.9 17		
8 9	0 1.86	- 2 17.3	1.864	2.696	14.9	22.1	8 9	23 55.97	+12 0.2	1.310	2.123	20.9	20.6
8 19	23 57.72	- 2 59.9	1.778	2.689	11.6	21.9	8 19	23 54.09	+12 19.5	1.232	2.116	17.5	20.4
8 29	23 51.37	- 3 55.9	1.714	2.682	7.7	21.7	8 29	23 49.45	+12 11.0	1.170	2.110	13.5	20.1
9 8	23 43.34	- 5 0.6	1.675	2.674	3.4	21.4	9 8	23 42.64	+11 33.4	1.127	2.104	9.2	19.9
9 18	23 34.42	- 6 7.6	1.663	2.666	1.8	21.3	9 18	23 34.62	+10 29.2	1.107	2.100	6.0	19.7
9 28	23 25.64	- 7 9.7	1.680	2.657	6.0	21.5	9 28	23 26.74	+ 9 6.1	1.111	2.096	7.0	19.8
10 8	23 17.98	- 8 0.4	1.723	2.648	10.2	21.7	10 8	23 20.34	+ 7 35.4	1.138	2.093	11.0	20.0
10 18	23 12.24	- 8 35.5	1.790	2.638	13.8	22.0	10 18	23 16.42	+ 6 8.7	1.187	2.091	15.3	20.2
<b>356446</b>	2010 <i>XD</i> <sub>74</sub>	9 16.2 271°85'		2°4/11.3 18			<b>56110</b>	1999 <i>CO</i> <sub>1</sub>	9 16.2 220°50'		0°3/15.9 18		
8 9	23 51.70	-13 39.6	4.391	5.231	6.8	20.3	8 9	0 4.76	- 1 43.9	2.009	2.829	14.4	20.3
8 19	23 48.59	-14 17.1	4.313	5.229	5.2	20.2	8 19	23 59.83	- 1 56.4	1.918	2.821	11.3	20.1
8 29	23 44.61	-14 55.7	4.261	5.226	3.6	20.1	8 29	23 52.73	- 2 19.8	1.848	2.812	7.6	19.8
9 8	23 40.04	-15 32.7	4.237	5.224	2.4	20.0	9 8	23 43.98	- 2 51.0	1.805	2.803	3.5	19.6
9 18	23 35.18	-16 5.6	4.242	5.222	2.7	20.0	9 18	23 34.34	- 3 25.7	1.789	2.793	0.9	19.3
9 28	23 30.40	-16 32.0	4.277	5.220	4.1	20.1	9 28	23 24.81	- 3 58.6	1.802	2.783	5.2	19.6
10 8	23 26.05	-16 50.3	4.340	5.217	5.8	20.2	10 8	23 16.36	- 4 24.8	1.843	2.772	9.3	19.9
10 18	23 22.43	-16 59.3	4.428	5.215	7.3	20.3	10 18	23 9.77	- 4 40.7	1.908	2.761	12.9	20.1
<b>522962</b>	2016 <i>PZ</i> <sub>114</sub>	9 16.2 299°37'		0°7/15.8 18			<b>280104</b>	2002 <i>FS</i> <sub>32</sub>	9 16.2 50°10'		4°7/12.2 17		
8 9	0 6.20	- 4 32.2	1.648	2.486	16.2	21.0	8 9	0 1.07	-10 44.1	1.503	2.368	16.1	19.6
8 19	0 1.58	- 4 18.9	1.553	2.466	12.8	20.8	8 19	23 57.35	-11 45.5	1.449	2.379	12.4	19.4
8 29	23 54.27	- 4 13.7	1.478	2.446	8.7	20.5	8 29	23 51.16	-12 53.3	1.417	2.391	8.3	19.2
9 8	23 44.80	- 4 13.7	1.427	2.426	4.0	20.2	9 8	23 43.22	-13 59.1	1.408	2.402	5.1	19.1
9 18	23 34.08	- 4 15.1	1.403	2.407	1.3	19.9	9 18	23 34.54	-14 54.4	1.425	2.415	5.4	19.1
9 28	23 23.37	- 4 13.2	1.406	2.387	6.3	20.2	9 28	23 26.30	-15 31.9	1.468	2.427	8.8	19.4
10 8	23 13.95	- 4 3.8	1.434	2.368	11.1	20.4	10 8	23 19.59	-15 47.9	1.534	2.439	12.5	19.6
10 18	23 6.82	- 3 44.3	1.486	2.349	15.3	20.7	10 18	23 15.12	-15 41.6	1.621	2.452	15.9	19.9
<b>435755</b>	2008 <i>UN</i> <sub>187</sub>	9 16.2 358°75'		7°9/23.6 16									

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>386803</b>	2010 <i>EV</i> <sub>140</sub>		9 16.2 342°90		1.7/14.8	18	<b>324773</b>	2007 <i>GF</i> <sub>46</sub>		9 16.2 180°90		6°1/ 8.8	18
8 9	23 57.32	- 3 21.7	1.466	2.324	16.8	20.3	8 9	0 2.48	-22 38.5	2.567	3.410	10.9	20.9
8 19	23 54.72	- 4 0.4	1.391	2.317	13.1	20.0	8 19	23 57.53	-23 30.0	2.504	3.410	8.8	20.8
8 29	23 49.62	- 4 53.9	1.337	2.311	8.6	19.7	8 29	23 50.87	-24 17.7	2.464	3.410	7.0	20.6
9 8	23 42.63	- 5 56.4	1.305	2.306	3.9	19.5	9 8	23 43.01	-24 55.9	2.451	3.410	6.1	20.6
9 18	23 34.65	- 7 0.2	1.299	2.301	2.4	19.3	9 18	23 34.63	-25 19.6	2.465	3.410	6.8	20.6
9 28	23 26.89	- 7 56.6	1.318	2.297	7.0	19.6	9 28	23 26.50	-25 25.6	2.506	3.410	8.5	20.7
10 8	23 20.48	- 8 38.4	1.361	2.294	11.7	19.9	10 8	23 19.35	-25 12.6	2.572	3.409	10.6	20.9
10 18	23 16.28	- 9 1.3	1.426	2.291	15.7	20.1	10 18	23 13.76	-24 41.5	2.661	3.408	12.6	21.0
<b>19355</b>	Merpalehmann		9 16.2 13°66		0°6/15.7	18	<b>260324</b>	2004 <i>TE</i> <sub>167</sub>		9 16.2 50°56		1°7/18.3	18
8 9	0 2.23	- 3 47.4	1.925	2.759	14.4	17.6	8 9	23 55.99	+ 6 31.7	2.045	2.850	14.7	20.4
8 19	23 57.81	- 3 46.2	1.849	2.761	11.2	17.4	8 19	23 52.87	+ 5 57.8	1.970	2.859	11.7	20.2
8 29	23 51.30	- 3 53.5	1.795	2.763	7.5	17.2	8 29	23 47.95	+ 5 6.2	1.916	2.868	8.3	20.0
9 8	23 43.28	- 4 6.2	1.766	2.765	3.4	17.0	9 8	23 41.74	+ 3 59.9	1.887	2.878	4.5	19.8
9 18	23 34.53	- 4 20.3	1.764	2.768	1.2	16.8	9 18	23 34.91	+ 2 43.8	1.885	2.887	1.7	19.6
9 28	23 26.02	- 4 31.7	1.790	2.771	5.2	17.1	9 28	23 28.30	+ 1 24.4	1.911	2.897	4.3	19.8
10 8	23 18.67	- 4 36.3	1.843	2.775	9.1	17.4	10 8	23 22.69	+ 0 8.8	1.964	2.907	7.9	20.0
10 18	23 13.17	- 4 31.6	1.920	2.779	12.6	17.6	10 18	23 18.67	- 0 57.3	2.043	2.917	11.2	20.3
<b>104682</b>	2000 <i>GB</i> <sub>154</sub>		9 16.2 253°22		3°0/19.9	18	<b>41264</b>	1999 <i>XF</i> <sub>58</sub>		9 16.2 133°17		2°1/18.9	18
8 9	23 57.66	+ 9 36.2	2.695	3.463	12.4	20.2	8 9	23 57.59	+ 7 17.8	2.566	3.349	12.6	19.2
8 19	23 53.86	+ 9 36.3	2.590	3.450	10.2	20.0	8 19	23 53.74	+ 7 1.6	2.482	3.356	10.2	19.1
8 29	23 48.50	+ 9 22.2	2.507	3.438	7.7	19.8	8 29	23 48.36	+ 6 31.4	2.421	3.363	7.3	18.9
9 8	23 41.98	+ 8 54.7	2.449	3.425	5.0	19.6	9 8	23 41.88	+ 5 48.9	2.385	3.370	4.3	18.7
9 18	23 34.81	+ 8 15.6	2.418	3.411	3.0	19.5	9 18	23 34.88	+ 4 57.1	2.377	3.376	2.1	18.6
9 28	23 27.66	+ 7 28.3	2.416	3.398	4.0	19.5	9 28	23 28.03	+ 4 0.4	2.398	3.382	3.8	18.7
10 8	23 21.22	+ 6 37.5	2.443	3.384	6.7	19.7	10 8	23 21.98	+ 3 3.9	2.447	3.388	6.7	18.9
10 18	23 16.05	+ 5 47.9	2.497	3.370	9.5	19.9	10 18	23 17.27	+ 2 12.2	2.524	3.394	9.5	19.1
<b>294038</b>	2007 <i>TP</i> <sub>131</sub>		9 16.2 107°13		2°9/19.4	18	<b>10438</b>	Ludolph		9 16.2 145°24		1°5/15.1	18
8 9	23 58.17	+ 9 15.2	1.964	2.754	15.7	21.3	8 9	0 6.16	- 3 59.1	1.553	2.393	16.9	18.2
8 19	23 54.69	+ 8 55.3	1.884	2.760	12.8	21.1	8 19	0 1.34	- 4 25.9	1.484	2.399	13.1	18.0
8 29	23 49.24	+ 8 15.5	1.823	2.765	9.3	20.9	8 29	23 53.91	- 5 4.8	1.435	2.405	8.7	17.8
9 8	23 42.35	+ 7 17.6	1.787	2.770	5.7	20.7	9 8	23 44.56	- 5 50.4	1.411	2.411	3.9	17.5
9 18	23 34.74	+ 6 5.9	1.777	2.775	3.0	20.6	9 18	23 34.31	- 6 36.1	1.413	2.416	2.1	17.4
9 28	23 27.33	+ 4 46.6	1.795	2.780	4.7	20.7	9 28	23 24.41	- 7 14.8	1.442	2.420	6.7	17.7
10 8	23 20.99	+ 3 27.4	1.840	2.785	8.2	20.9	10 8	23 16.04	- 7 40.6	1.497	2.425	11.2	18.0
10 18	23 16.38	+ 2 15.3	1.911	2.790	11.7	21.1	10 18	23 10.03	- 7 50.7	1.575	2.428	15.1	18.2
<b>82998</b>	2001 <i>QJ</i> <sub>157</sub>		9 16.2 76°09		0°2/15.9	18	<b>69754</b>	Mosesmendel		9 16.2 327°97		6°8/ 9.3	18
8 9	23 57.63	+ 1 11.9	1.902	2.729	14.8	19.5	8 9	23 54.11	-12 48.4	1.409	2.292	15.9	18.3
8 19	23 54.22	+ 0 19.3	1.833	2.740	11.5	19.3	8 19	23 52.49	-14 33.3	1.335	2.275	12.4	18.1
8 29	23 48.88	+ 0 48.6	1.786	2.752	7.7	19.1	8 29	23 48.31	-16 28.4	1.283	2.258	8.9	17.8
9 8	23 42.15	- 2 7.0	1.765	2.763	3.5	18.9	9 8	23 42.12	-18 22.6	1.254	2.241	6.8	17.7
9 18	23 34.80	- 3 29.4	1.771	2.775	0.9	18.7	9 18	23 34.82	-20 3.4	1.249	2.226	8.1	17.7
9 28	23 27.71	- 4 48.3	1.805	2.787	5.1	19.0	9 28	23 27.65	-21 19.4	1.268	2.211	11.6	17.9
10 8	23 21.72	- 5 56.9	1.866	2.798	9.0	19.3	10 8	23 21.83	-22 3.9	1.309	2.197	15.5	18.0
10 18	23 17.47	- 6 50.5	1.951	2.809	12.4	19.5	10 18	23 18.30	-22 15.3	1.369	2.185	19.0	18.2
<b>508007</b>	2015 <i>BU</i> <sub>299</sub>		9 16.2 135°94		2°1/14.2	17	<b>301340</b>	2009 <i>BP</i> <sub>187</sub>		9 16.2 239°31		4°1/20.4	18
8 9	0 3.07	- 5 15.6	1.822	2.661	14.8	22.1	8 9	0 0.55	+11 8.0	2.157	2.926	15.1	20.8
8 19	23 58.53	- 6 2.1	1.754	2.670	11.4	21.9	8 19	23 56.53	+11 20.9	2.060	2.918	12.6	20.6
8 29	23 51.80	- 6 58.6	1.709	2.679	7.5	21.6	8 29	23 50.53	+11 16.2	1.982	2.909	9.6	20.4
9 8	23 43.51	- 7 59.6	1.689	2.688	3.5	21.4	9 8	23 43.00	+10 53.8	1.928	2.900	6.5	20.2
9 18	23 34.50	- 8 58.2	1.696	2.696	2.7	21.4	9 18	23 34.63	+10 15.4	1.901	2.891	4.2	20.1
9 28	23 25.81	- 9 47.9	1.731	2.703	6.5	21.6	9 28	23 26.31	+ 9 24.9	1.902	2.881	5.1	20.1
10 8	23 18.39	-10 23.4	1.793	2.710	10.3	21.9	10 8	23 18.92	+ 8 28.4	1.930	2.872	8.1	20.3
10 18	23 12.93	-10 42.2	1.878	2.717	13.7	22.1	10 18	23 13.20	+ 7 32.1	1.983	2.862	11.3	20.5
<b>5709</b>	Tamyunleung		9 16.2 345°07		2°6/13.8	18	<b>224643</b>	2005 <i>YK</i> <sub>192</sub>		9 16.2 150°79		1°2/14.8	18
8 9	23 54.16	- 5 53.0	1.549	2.416	15.6	16.0	8 9	23 57.99	- 4 2.6	2.532	3.360	11.5	21.0
8 19	23 52.17	- 6 35.9	1.471	2.403	12.1	15.8	8 19	23 54.05	- 4 38.4	2.454	3.363	8.9	20.8
8 29	23 47.88	- 7 30.8	1.414	2.390	8.0	15.5	8 29	23 48.57	- 5 22.3	2.399	3.366	5.8	20.6
9 8	23 41.83	- 8 31.6	1.379	2.380	3.9	15.2	9 8	23 41.98	- 6 10.4	2.370	3.369	2.6	20.4
9 18	23 34.86	- 9 30.8	1.370	2.370	3.3	15.2	9 18	23 34.88	- 6 58.6	2.371	3.372	1.6	20.3
9 28	23 28.03	-10 20.3	1.387	2.361	7.4	15.4	9 28	23 27.93	- 7 42.1	2.400	3.375	4.7	20.5
10 8	23 22.43	-10 53.6	1.427	2.354	11.7	15.6	10 8	23 21.80	- 8 17.1	2.458	3.378	7.8	20.7
10 18	23 18.86	-11 7.3	1.488	2.348	15.5	15.9	10 18	23 17.02	- 8 40.9	2.541	3.380	10.5	20.9
<b>119935</b>	2002 <i>GD</i> <sub>23</sub>		9 16.2 95°09		0°5/17.0	18	<b>429404</b>	2010 <i>TJ</i> <sub>18</sub>		9 16.2 314°15		3°6/18.8	17
8 9	23 55.10	+ 1 47.8	3.200	4.001	10.0	20.1	8 9	23 59.68	+ 6 40.5	1.287	2.118	20.3	21.5
8 19	23 51.47	+ 1 26.7	3.121	4.012	7.8	19.9	8 19	23 57.09	+ 6 53.1	1.206	2.108	16.6	21.2
8 29	23 46.67	+ 0 57.0	3.066	4.023	5.3	19.8	8 29	23 51.57	+ 6 42.4	1.142	2.097	12.1	20.9
9 8	23 41.05	+ 0 20.8	3.039	4.033	2.6	19.6	9 8	23 43.69	+ 6 8.7	1.098	2.087	7.2	20.6
9 18	23 35.05	- 0 19.2	3.040	4.044	0.6	19.5	9 18	23 34.47	+ 5 15.7	1.077	2.078	3.6	20.4
9 28	23 29.19	- 0 59.7	3.071	4.055	3.1	19.7	9 28	23 25.33	+ 4 10.9	1.081	2.069	6.5	20.5
10 8	23 23.96	- 1 37.2	3.131	4.065	5.7	19.9	10 8	23 17.72	+ 3 4.9	1.108	2.060	11.5	20.8
10 18	23 19.75	- 2 9.1	3.218	4.075	8.0	20.1	10 18	23 12.73	+ 2 7.1	1.157	2.052	16.3	21.1
<b>227185</b>	2005 <i>QL</i> <sub>55</sub>		9 16.2 352°66		2°4/14.								

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>295327</b>	2008 GZ <sub>144</sub>		9 16.2 88°77'	4.1°/20.3 17			<b>135682</b>	2002 OZ <sub>1</sub>		9 16.2 65°88'	3.0°/19.4 17		
8 9	0 1.34	+11 53.9	1.618	2.405	18.7	20.2	8 9	23 58.99	+ 9 16.3	1.728	2.526	17.2	19.8
8 19	23 57.45	+11 38.7	1.554	2.424	15.3	20.0	8 19	23 55.46	+ 8 53.6	1.664	2.545	13.9	19.6
8 29	23 51.20	+10 58.4	1.507	2.442	11.4	19.8	8 29	23 49.79	+ 8 9.1	1.620	2.564	10.1	19.4
9 8	23 43.27	+ 9 54.8	1.483	2.461	7.3	19.6	9 8	23 42.62	+ 7 5.3	1.599	2.583	6.0	19.3
9 18	23 34.60	+ 8 32.5	1.484	2.479	4.3	19.5	9 18	23 34.79	+ 5 47.6	1.603	2.602	3.1	19.1
9 28	23 26.32	+ 7 0.0	1.513	2.497	5.5	19.6	9 28	23 27.31	+ 4 23.4	1.635	2.622	4.9	19.3
10 8	23 19.44	+ 5 26.9	1.567	2.515	9.2	19.9	10 8	23 21.09	+ 3 1.4	1.694	2.641	8.7	19.5
10 18	23 14.70	+ 4 2.0	1.647	2.532	12.9	20.2	10 18	23 16.81	+ 1 48.7	1.778	2.660	12.2	19.8
<b>155846</b>	2001 AM <sub>27</sub>		9 16.2 194°67'	5°3'/ 8.7 18			<b>331933</b>	2004 TV <sub>14</sub>		9 16.2 289°95'	15°2'/ 1.4 16		
8 9	0 0.19	-20 31.8	2.879	3.721	9.9	20.4	8 9	23 56.11	+31 50.4	1.221	1.926	27.5	20.7
8 19	23 55.64	-21 34.7	2.810	3.719	7.9	20.3	8 19	23 55.03	+32 55.3	1.137	1.915	25.3	20.5
8 29	23 49.58	-22 35.9	2.766	3.716	6.1	20.1	8 29	23 50.65	+33 18.2	1.065	1.904	22.7	20.2
9 8	23 42.44	-23 30.0	2.749	3.712	5.3	20.1	9 8	23 43.46	+32 48.7	1.004	1.894	19.8	20.0
9 18	23 34.80	-24 12.4	2.760	3.708	5.9	20.1	9 18	23 34.54	+31 19.6	0.960	1.883	17.0	19.8
9 28	23 27.31	-24 39.2	2.799	3.704	7.6	20.2	9 28	23 25.60	+28 51.3	0.935	1.872	15.4	19.7
10 8	23 20.62	-24 48.6	2.863	3.699	9.6	20.4	10 8	23 18.42	+25 36.2	0.930	1.862	15.7	19.7
10 18	23 15.26	-24 40.6	2.950	3.694	11.5	20.5	10 18	23 14.35	+21 55.2	0.947	1.852	18.1	19.8
<b>478686</b>	2012 TD <sub>313</sub>		9 16.2 6°12'	10°6'/24.0 18			<b>21258</b>	Huckins		9 16.2 97°18'	2°3'/19.5 18		
8 9	23 57.11	+16 58.9	1.165	1.964	23.8	19.8	8 9	23 56.57	+ 9 32.7	2.485	3.260	13.2	18.5
8 19	23 55.34	+18 35.4	1.101	1.964	20.7	19.6	8 19	23 52.98	+ 8 58.5	2.408	3.275	10.7	18.4
8 29	23 50.50	+19 43.1	1.052	1.966	17.2	19.4	8 29	23 47.85	+ 8 7.7	2.353	3.290	7.7	18.2
9 8	23 43.21	+20 16.1	1.020	1.969	13.7	19.2	9 8	23 41.67	+ 7 2.7	2.323	3.305	4.7	18.0
9 18	23 34.60	+20 12.0	1.007	1.975	11.1	19.1	9 18	23 35.00	+ 5 47.2	2.321	3.319	2.4	17.9
9 28	23 26.21	+19 33.9	1.016	1.982	10.8	19.1	9 28	23 28.52	+ 4 26.7	2.349	3.334	3.8	18.0
10 8	23 19.55	+18 31.6	1.045	1.990	12.9	19.2	10 8	23 22.90	+ 3 7.3	2.406	3.348	6.7	18.2
10 18	23 15.72	+17 17.5	1.095	2.001	16.1	19.5	10 18	23 18.62	+ 1 54.2	2.489	3.362	9.5	18.4
<b>217406</b>	2005 JN <sub>79</sub>		9 16.2 55°06'	1°2'/17.2 17			<b>217660</b>	1998 SD <sub>32</sub>		9 16.2 2°44'	0°3'/15.9 18		
8 9	0 2.56	+ 2 54.7	1.263	2.104	20.0	20.3	8 9	23 55.72	- 0 55.6	1.628	2.476	15.9	19.5
8 19	23 58.84	+ 2 38.8	1.212	2.124	15.7	20.1	8 19	23 53.18	- 1 16.7	1.556	2.475	12.4	19.3
8 29	23 52.31	+ 2 2.2	1.180	2.145	10.8	19.9	8 29	23 48.44	- 1 52.0	1.505	2.475	8.3	19.0
9 8	23 43.81	+ 1 9.3	1.169	2.165	5.3	19.7	9 8	23 42.07	- 2 37.3	1.476	2.476	3.8	18.8
9 18	23 34.51	+ 0 7.3	1.182	2.187	1.3	19.4	9 18	23 34.90	- 3 27.0	1.473	2.478	1.0	18.6
9 28	23 25.79	- 0 54.7	1.221	2.208	6.1	19.8	9 28	23 27.96	- 4 14.1	1.496	2.480	5.6	18.9
10 8	23 18.85	- 1 48.0	1.284	2.230	11.0	20.2	10 8	23 22.23	- 4 52.2	1.545	2.484	10.0	19.2
10 18	23 14.47	- 2 26.8	1.369	2.251	15.2	20.5	10 18	23 18.45	- 5 16.9	1.616	2.489	13.7	19.4
<b>108293</b>	2001 HD <sub>63</sub>		9 16.2 149°48'	0°9'/17.0 18			<b>118358</b>	1999 FH <sub>2</sub>		9 16.2 204°57'	0°1'/16.3 18		
8 9	0 3.68	+ 2 26.8	1.811	2.626	15.9	20.8	8 9	23 01.40	+ 0 48.3	1.963	2.783	14.7	21.1
8 19	23 59.08	+ 2 6.0	1.736	2.633	12.6	20.5	8 19	23 57.26	+ 0 16.4	1.877	2.779	11.5	20.9
8 29	23 52.24	+ 1 29.4	1.681	2.640	8.6	20.3	8 29	23 51.04	- 0 30.0	1.812	2.775	7.8	20.7
9 8	23 43.77	+ 0 40.2	1.652	2.647	4.3	20.1	9 8	23 43.25	- 1 27.2	1.773	2.771	3.6	20.4
9 18	23 34.50	- 0 16.3	1.649	2.653	1.0	19.9	9 18	23 34.65	- 2 30.1	1.761	2.766	0.8	20.2
9 28	23 25.50	- 1 13.7	1.674	2.659	5.1	20.2	9 28	23 26.18	- 3 32.0	1.778	2.760	5.1	20.5
10 8	23 17.76	- 2 5.2	1.727	2.663	9.3	20.4	10 8	23 18.79	- 4 26.5	1.822	2.754	9.2	20.7
10 18	23 12.00	- 2 45.8	1.804	2.668	13.0	20.7	10 18	23 13.20	- 5 8.8	1.890	2.748	12.8	20.9
<b>307574</b>	2003 FD <sub>108</sub>		9 16.2 71°24'	3°9'/19.9 18			<b>150027</b>	2005 VB <sub>13</sub>		9 16.2 18°80'	0°7'/16.9 18		
8 9	0 2.27	+10 9.7	1.617	2.410	18.4	19.9	8 9	23 58.85	+ 1 30.5	1.986	2.807	14.5	20.3
8 19	23 58.09	+10 8.2	1.558	2.434	15.0	19.7	8 19	23 55.19	+ 1 18.1	1.907	2.809	11.4	20.1
8 29	23 51.58	+ 9 43.9	1.518	2.457	11.0	19.5	8 29	23 49.59	+ 0 52.5	1.849	2.811	7.8	19.9
9 8	23 43.43	+ 8 58.7	1.500	2.480	6.9	19.4	9 8	23 42.55	+ 0 16.4	1.817	2.813	3.8	19.7
9 18	23 34.59	+ 7 56.9	1.508	2.504	4.0	19.3	9 18	23 34.81	- 0 26.1	1.811	2.815	0.9	19.5
9 28	23 26.19	+ 6 45.6	1.543	2.527	5.5	19.4	9 28	23 27.26	- 1 9.5	1.833	2.818	4.7	19.8
10 8	23 19.23	+ 5 33.5	1.603	2.550	9.1	19.7	10 8	23 20.76	- 1 48.3	1.882	2.820	8.5	20.0
10 18	23 14.41	+ 4 28.2	1.688	2.572	12.7	19.9	10 18	23 15.96	- 2 18.2	1.955	2.823	11.9	20.2
<b>348359</b>	2005 EF <sub>198</sub>		9 16.2 239°47'	2°1'/18.7 18			<b>438020</b>	2003 YH <sub>140</sub>		9 16.2 304°02'	7°2'/22.3 18		
8 9	23 57.69	+ 8 5.0	2.130	2.921	14.6	21.6	8 9	0 0.49	+15 31.5	1.796	2.555	18.0	20.9
8 19	23 54.30	+ 7 30.7	2.032	2.911	11.8	21.4	8 19	23 57.09	+16 22.2	1.697	2.539	15.5	20.7
8 29	23 49.01	+ 6 37.0	1.956	2.901	8.5	21.2	8 29	23 51.28	+16 52.2	1.616	2.524	12.6	20.5
9 8	23 42.30	+ 5 26.1	1.904	2.891	4.9	20.9	9 8	23 43.51	+16 58.8	1.556	2.508	9.6	20.3
9 18	23 34.82	+ 4 2.1	1.880	2.881	2.2	20.7	9 18	23 34.57	+16 41.0	1.520	2.493	7.4	20.1
9 28	23 27.40	+ 2 31.8	1.885	2.870	4.4	20.9	9 28	23 25.55	+16 1.3	1.510	2.478	7.6	20.1
10 8	23 20.89	+ 1 2.7	1.917	2.859	8.1	21.1	10 8	23 17.62	+15 6.0	1.524	2.463	10.1	20.2
10 18	23 15.98	- 0 18.1	1.976	2.848	11.6	21.3	10 18	23 11.72	+14 3.3	1.562	2.449	13.3	20.4
<b>50825</b>	2000 FD <sub>37</sub>		9 16.2 268°68'	1°5'/14.7 18			<b>513775</b>	2012 YK <sub>10</sub>		9 16.2 199°90'	2°9'/13.0 18		
8 9	23 58.60	- 3 23.2	1.950	2.789	14.0	18.9	8 9	23 59.72	- 8 17.4	2.126	2.969	12.8	22.0
8 19	23 55.10	- 4 7.7	1.866	2.782	10.9	18.7	8 19	23 55.76	- 9 10.1	2.049	2.968	9.9	21.8
8 29	23 49.59	- 5 4.2	1.805	2.775	7.2	18.4	8 29	23 49.91	-10 10.1	1.995	2.966	6.5	21.6
9 8	23 42.57	- 6 7.7	1.769	2.768	3.2	18.2	9 8	23 42.69	-11 11.8	1.968	2.964	3.5	21.4
9 18	23 34.77	- 7 12.2	1.760	2.761	2.1	18.1	9 18	23 34.79	-12 9.1	1.968	2.962	3.5	21.4
9 28	23 27.10	- 8 10.9	1.778	2.754	5.9	18.3	9 28	23 27.06	-12 56.1	1.997	2.960	6.5	21.6
10 8	23 20.47	- 8 57.8	1.824	2.747	9.8	18.5	10 8	23 20.35	-13 28.5	2.052	2.957	9.8	21.8
10 18	23 15.58	- 9 29.3	1.893	2.740	13.2	18.7	10 18	23 15.28	-13 44.2	2.131	2.955	12.8	22.0
<b>460218</b>	2014 QO <sub>194</sub>		9 16.2 343°18'	0°1'/16.1 17			<b>487313</b>	2014 QQ <sub>115</sub>		9 16.2 244°99'	3°9'/20.1 17		
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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>22052</b>	2000 AQ <sub>14</sub>		9 16.2 306°36	2°9/10.4	18		<b>283842</b>	2003 UQ <sub>108</sub>		9 16.2 32°12	0°8/16.9	18	
8 9	23 52.43	-16 15.4	4.238	5.080	7.0	18.4	8 9	23 59.27	+ 1 52.0	1.525	2.362	17.4	20.8
8 19	23 49.22	-16 54.9	4.163	5.078	5.4	18.3	8 19	23 56.04	+ 1 36.2	1.459	2.369	13.7	20.6
8 29	23 45.10	-17 34.4	4.114	5.076	3.9	18.2	8 29	23 50.41	+ 1 3.3	1.413	2.378	9.3	20.4
9 8	23 40.36	-18 11.1	4.093	5.073	2.9	18.1	9 8	23 43.02	+ 0 16.8	1.389	2.386	4.6	20.1
9 18	23 35.31	-18 42.3	4.101	5.071	3.3	18.1	9 18	23 34.82	- 0 37.4	1.391	2.396	1.0	19.9
9 28	23 30.35	-19 5.7	4.138	5.069	4.6	18.2	9 28	23 26.93	- 1 31.9	1.419	2.405	5.5	20.2
10 8	23 25.84	-19 19.7	4.202	5.066	6.2	18.3	10 8	23 20.44	- 2 19.3	1.473	2.416	10.0	20.5
10 18	23 22.11	-19 23.5	4.291	5.064	7.7	18.4	10 18	23 16.08	- 2 54.2	1.549	2.426	14.0	20.8
<b>482333</b>	2011 UL <sub>335</sub>		9 16.2 316°21	4°6/12.9	18		<b>128938</b>	2004 TK <sub>109</sub>		9 16.2 263°11	0°4/15.8	18	
8 9	0 4.83	-13 30.3	1.693	2.549	15.1	20.4	8 9	23 57.80	- 1 17.7	2.461	3.282	12.0	20.3
8 19	0 0.37	-13 50.5	1.610	2.533	11.8	20.2	8 19	23 54.12	- 1 47.4	2.364	3.268	9.4	20.1
8 29	23 53.36	-14 13.0	1.549	2.519	8.2	19.9	8 29	23 48.79	- 2 27.4	2.291	3.255	6.3	19.8
9 8	23 44.40	-14 31.6	1.512	2.504	5.1	19.7	9 8	23 42.22	- 3 14.7	2.243	3.242	2.8	19.6
9 18	23 34.42	-14 40.1	1.501	2.490	5.2	19.7	9 18	23 34.98	- 4 5.1	2.224	3.228	0.9	19.4
9 28	23 24.63	-14 33.3	1.516	2.476	8.4	19.9	9 28	23 27.81	- 4 53.9	2.234	3.214	4.5	19.7
10 8	23 16.19	-14 8.6	1.556	2.463	12.3	20.1	10 8	23 21.41	- 5 36.2	2.272	3.200	7.9	19.9
10 18	23 9.97	-13 25.9	1.618	2.451	15.8	20.3	10 18	23 16.38	- 6 8.5	2.336	3.186	10.9	20.0
<b>356277</b>	2010 BL <sub>5</sub>		9 16.2 229°45	2°0/11.6	16		<b>283200</b>	2010 DH <sub>37</sub>		9 16.2 92°61	1°2/15.1	16	
8 9	23 50.73	-12 6.9	4.695	5.532	6.4	21.0	8 9	0 1.20	- 2 36.7	1.844	2.679	14.9	21.5
8 19	23 47.84	-12 50.7	4.614	5.529	4.9	20.8	8 19	23 57.04	- 3 20.1	1.781	2.694	11.5	21.3
8 29	23 44.16	-13 36.2	4.559	5.526	3.3	20.7	8 29	23 50.80	- 4 15.2	1.740	2.709	7.5	21.1
9 8	23 39.93	-14 20.9	4.533	5.523	2.2	20.6	9 8	23 43.13	- 5 16.9	1.725	2.724	3.3	20.9
9 18	23 35.42	-15 2.3	4.537	5.520	2.4	20.7	9 18	23 34.82	- 6 19.0	1.736	2.739	1.8	20.8
9 28	23 30.98	-15 38.1	4.571	5.517	3.8	20.8	9 28	23 26.84	- 7 14.5	1.776	2.754	5.7	21.1
10 8	23 26.91	-16 6.3	4.632	5.514	5.3	20.9	10 8	23 20.10	- 7 58.2	1.842	2.768	9.6	21.4
10 18	23 23.51	-16 25.9	4.720	5.510	6.8	21.0	10 18	23 15.21	- 8 26.7	1.933	2.782	12.9	21.6
<b>390012</b>	2012 TQ <sub>317</sub>		9 16.2 274°55	4°1/12.2	18		<b>50266</b>	2000 BU <sub>28</sub>		9 16.2 63°85	5°5/10.7	18	
8 9	0 0.23	- 9 58.5	1.793	2.649	14.3	21.1	8 9	0 0.04	-13 42.5	1.740	2.602	14.4	18.2
8 19	23 56.66	-11 0.0	1.710	2.635	11.1	20.9	8 19	23 56.32	-15 1.4	1.687	2.614	11.1	18.0
8 29	23 50.81	-12 9.8	1.649	2.621	7.5	20.6	8 29	23 50.41	-16 23.6	1.657	2.626	7.8	17.8
9 8	23 43.23	-13 21.0	1.613	2.608	4.5	20.4	9 8	23 42.96	-17 40.7	1.652	2.638	5.6	17.7
9 18	23 34.70	-14 25.7	1.604	2.594	4.9	20.4	9 18	23 34.85	-18 44.5	1.673	2.651	6.3	17.8
9 28	23 26.29	-15 16.2	1.621	2.580	8.2	20.6	9 28	23 27.13	-19 28.4	1.721	2.663	9.1	18.0
10 8	23 19.03	-15 47.3	1.664	2.565	11.9	20.8	10 8	23 20.71	-19 49.4	1.792	2.676	12.2	18.2
10 18	23 13.73	-15 56.7	1.728	2.551	15.3	21.0	10 18	23 16.27	-19 47.2	1.885	2.688	15.0	18.5
<b>254316</b>	2004 RT <sub>322</sub>		9 16.2 279°47	3°4/20.3	18		<b>209321</b>	2004 BM <sub>61</sub>		9 16.2 352°32	5°8/10.9	18	
8 9	23 56.30	+11 4.3	2.326	3.098	14.1	20.6	8 9	23 56.43	-12 22.1	1.414	2.293	16.1	19.2
8 19	23 53.13	+10 51.7	2.222	3.084	11.6	20.4	8 19	23 54.16	-13 36.8	1.350	2.287	12.5	19.0
8 29	23 48.21	+10 20.9	2.139	3.069	8.8	20.2	8 29	23 49.34	-14 58.5	1.307	2.282	8.7	18.8
9 8	23 41.96	+ 9 32.7	2.080	3.055	5.7	20.0	9 8	23 42.60	-16 17.7	1.287	2.279	6.0	18.6
9 18	23 34.98	+ 8 29.5	2.047	3.041	3.5	19.8	9 18	23 34.92	-17 24.3	1.292	2.276	6.8	18.7
9 28	23 28.02	+ 7 16.1	2.043	3.026	4.5	19.8	9 28	23 27.52	-18 9.5	1.321	2.274	10.2	18.8
10 8	23 21.87	+ 5 59.0	2.067	3.012	7.5	20.0	10 8	23 21.57	-18 28.5	1.372	2.273	14.0	19.1
10 18	23 17.16	+ 4 44.6	2.117	2.997	10.6	20.2	10 18	23 17.88	-18 20.6	1.443	2.273	17.5	19.3
<b>225720</b>	2001 RJ <sub>59</sub>		9 16.2 1°78	3°4/13.7	18		<b>80531</b>	2000 AY <sub>70</sub>		9 16.2 160°71	1°5/14.7	18	
8 9	23 55.20	- 5 55.6	1.094	1.980	19.3	20.0	8 9	0 2.63	- 2 57.0	1.905	2.736	14.6	20.1
8 19	23 53.76	- 6 43.8	1.036	1.977	14.9	19.7	8 19	23 58.19	- 3 50.4	1.831	2.742	11.3	19.9
8 29	23 49.33	- 7 47.1	0.995	1.976	9.8	19.4	8 29	23 51.64	- 4 56.1	1.779	2.748	7.4	19.7
9 8	23 42.65	- 8 57.0	0.976	1.976	4.8	19.1	9 8	23 43.55	- 6 8.8	1.753	2.753	3.3	19.4
9 18	23 34.85	-10 2.8	0.979	1.978	4.2	19.1	9 18	23 34.72	- 7 21.7	1.756	2.757	2.1	19.4
9 28	23 27.44	-10 53.8	1.004	1.981	9.0	19.4	9 28	23 26.14	- 8 27.6	1.786	2.761	6.0	19.6
10 8	23 21.78	-11 22.4	1.051	1.986	14.1	19.7	10 8	23 18.73	- 9 20.4	1.843	2.764	9.9	19.9
10 18	23 18.78	-11 25.6	1.117	1.992	18.4	20.0	10 18	23 13.19	- 9 56.5	1.925	2.766	13.3	20.1
<b>374748</b>	2006 SA <sub>181</sub>		9 16.2 41°30	0°5/16.6	17		<b>315866</b>	2008 HW <sub>61</sub>		9 16.2 64°26	5°5/23.1	18	
8 9	0 0.91	+ 1 29.8	1.071	1.932	21.5	21.1	8 9	23 56.88	+17 24.2	2.221	2.958	15.6	20.6
8 19	23 57.94	+ 1 6.6	1.028	1.952	16.8	20.9	8 19	23 53.59	+17 26.9	2.136	2.964	13.3	20.5
8 29	23 51.90	+ 0 21.4	1.001	1.973	11.3	20.7	8 29	23 48.50	+17 7.9	2.070	2.970	10.6	20.3
9 8	23 43.71	- 0 39.7	0.996	1.995	5.3	20.4	9 8	23 42.10	+16 27.2	2.026	2.976	7.9	20.2
9 18	23 34.68	- 1 47.7	1.013	2.017	1.0	20.2	9 18	23 35.03	+15 26.4	2.008	2.982	5.8	20.0
9 28	23 26.33	- 2 51.9	1.054	2.041	6.8	20.7	9 28	23 28.12	+14 10.2	2.017	2.988	5.8	20.1
10 8	23 19.96	- 3 43.2	1.118	2.065	12.0	21.0	10 8	23 22.16	+12 45.4	2.053	2.994	7.8	20.2
10 18	23 16.36	- 4 16.0	1.202	2.089	16.5	21.4	10 18	23 17.75	+11 19.4	2.115	3.000	10.4	20.4
<b>239963</b>	2001 MX <sub>1</sub>		9 16.2 37°25	5°8/10.6	18		<b>216927</b>	1998 QQ <sub>89</sub>		9 16.2 7°23	6°6/20.9	18	
8 9	23 57.63	-12 16.8	1.470	2.345	15.9	20.1	8 9	0 0.15	+11 3.6	1.236	2.052	21.8	19.5
8 19	23 54.75	-13 49.4	1.426	2.361	12.2	19.9	8 19	23 57.50	+11 57.4	1.167	2.052	18.3	19.2
8 29	23 49.48	-15 27.1	1.404	2.377	8.4	19.7	8 29	23 51.86	+12 26.3	1.114	2.053	14.1	19.0
9 8	23 42.54	-16 59.6	1.405	2.395	6.0	19.6	9 8	23 43.87	+12 27.8	1.081	2.056	9.8	18.8
9 18	23 34.92	-18 16.9	1.432	2.412	6.8	19.7	9 18	23 34.64	+12 2.9	1.069	2.059	6.8	18.6
9 28	23 27.77	-19 11.3	1.484	2.431	9.9	19.9	9 28	23 25.66	+11 17.0	1.081	2.063	7.7	18.7
10 8	23 22.08	-19 39.2	1.558	2.450	13.3	20.2	10 8	23 18.34	+10 19.8	1.115	2.067	11.5	18.9
10 18	23 18.55	-19 40.7	1.653	2.469	16.3	20.4	10 18	23 13.73	+ 9 21.7	1.171	2.073	15.6	19.2
<b>9483</b>	Chagas		9 16.2 338°87	2°1/18.5	18		<b>214956</b>	2007 XL <sub>25</sub>		9 16.2 284°80	3°0/13.2	18	
8 9	23 54.04	+ 6											



EPHEMERIDES

9 16.3

9 16.3

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>142855</b>	2002 VC <sub>26</sub>		9 16.3 337°55	2°2/18.2	18		<b>483995</b>	2006 CD <sub>27</sub>		9 16.3 249°78	0°9/15.2	18	
8 9	23 58.96	+ 4 50.7	1.754	2.570	16.3	19.9	8 9	23 57.84	- 2 54.4	2.443	3.269	11.9	22.0
8 19	23 55.67	+ 4 50.8	1.670	2.565	13.1	19.7	8 19	23 54.13	- 3 28.9	2.353	3.261	9.2	21.8
8 29	23 50.16	+ 4 33.8	1.606	2.561	9.3	19.5	8 29	23 48.79	- 4 12.8	2.287	3.253	6.1	21.6
9 8	23 42.96	+ 4 1.5	1.565	2.556	5.2	19.2	9 8	23 42.25	- 5 2.6	2.246	3.246	2.7	21.4
9 18	23 34.87	+ 3 17.6	1.551	2.553	2.2	19.0	9 18	23 35.07	- 5 53.9	2.235	3.238	1.4	21.3
9 28	23 27.8	+ 2 27.8	1.563	2.549	5.0	19.2	9 28	23 28.00	- 6 41.7	2.252	3.229	4.7	21.5
10 8	23 20.12	+ 1 39.2	1.601	2.546	9.2	19.5	10 8	23 21.73	- 7 21.4	2.297	3.221	8.0	21.7
10 18	23 15.25	+ 0 57.6	1.662	2.543	13.0	19.7	10 18	23 16.84	- 7 50.0	2.367	3.213	11.0	21.9
<b>522806</b>	2016 NG <sub>80</sub>		9 16.3 303°23	3°3/18.6	18		<b>99231</b>	2001 KC <sub>1</sub>		9 16.3 189°04	2°4/13.2	18	
8 9	0 2.60	+ 5 17.2	1.502	2.321	18.4	21.3	8 9	23 58.93	- 8 57.2	2.721	3.555	10.6	20.2
8 19	23 59.04	+ 5 43.4	1.413	2.308	15.0	21.0	8 19	23 54.74	- 9 36.2	2.641	3.555	8.1	20.0
8 29	23 52.76	+ 5 52.0	1.343	2.296	10.9	20.7	8 29	23 49.06	- 10 19.9	2.585	3.554	5.4	19.9
9 8	23 44.30	+ 5 43.1	1.295	2.284	6.5	20.4	9 8	23 42.32	- 11 4.2	2.557	3.552	2.9	19.7
9 18	23 34.57	+ 5 18.9	1.272	2.272	3.3	20.2	9 18	23 35.07	- 11 45.0	2.557	3.551	2.8	19.7
9 28	23 24.87	+ 4 44.7	1.274	2.260	6.0	20.4	9 28	23 27.95	- 12 18.1	2.587	3.549	5.3	19.8
10 8	23 16.52	+ 4 7.7	1.301	2.249	10.6	20.6	10 8	23 21.61	- 12 40.5	2.644	3.547	8.0	20.0
10 18	23 10.53	+ 3 35.0	1.351	2.238	15.0	20.8	10 18	23 16.56	- 12 50.3	2.727	3.545	10.5	20.2
<b>362489</b>	2010 TD <sub>13</sub>		9 16.3 3°82	0°5/15.8	18		<b>233339</b>	2006 DT		9 16.3 75°35	1°9/14.5	18	
8 9	0 2.56	- 3 36.9	1.846	2.681	14.9	20.4	8 9	0 0.70	- 4 22.3	1.707	2.552	15.4	20.1
8 19	23 58.24	- 3 34.7	1.769	2.681	11.6	20.2	8 19	23 56.91	- 5 6.5	1.641	2.560	11.9	19.9
8 29	23 51.75	- 3 41.5	1.714	2.681	7.7	20.0	8 29	23 50.88	- 6 2.1	1.596	2.568	7.8	19.7
9 8	23 43.64	- 3 54.0	1.683	2.682	3.5	19.7	9 8	23 43.25	- 7 3.4	1.576	2.575	3.6	19.5
9 18	23 34.76	- 4 8.4	1.679	2.683	1.1	19.5	9 18	23 34.88	- 8 3.5	1.582	2.583	2.5	19.4
9 28	23 26.10	- 4 20.1	1.702	2.684	5.4	19.8	9 28	23 26.81	- 8 55.1	1.616	2.591	6.5	19.7
10 8	23 18.64	- 4 25.0	1.752	2.686	9.4	20.1	10 8	23 20.03	- 9 32.8	1.675	2.599	10.5	20.0
10 18	23 13.10	- 4 20.3	1.826	2.688	13.0	20.3	10 18	23 15.24	- 9 53.4	1.758	2.607	14.0	20.2
<b>275323</b>	2010 UW <sub>94</sub>		9 16.3 317°47	1°6/18.1	18		<b>319434</b>	2006 JZ <sub>39</sub>		9 16.3 158°81	1°5/14.8	18	
8 9	23 55.09	+ 6 15.4	2.001	2.810	14.8	20.5	8 9	0 0.20	- 3 36.9	1.872	2.711	14.5	21.4
8 19	23 52.42	+ 5 39.4	1.909	2.800	11.9	20.3	8 19	23 56.40	- 4 18.5	1.797	2.712	11.2	21.2
8 29	23 47.86	+ 4 44.4	1.838	2.792	8.4	20.0	8 29	23 50.51	- 5 11.6	1.743	2.713	7.4	21.0
9 8	23 41.88	+ 3 33.1	1.792	2.783	4.6	19.8	9 8	23 43.09	- 6 11.2	1.715	2.714	3.4	20.8
9 18	23 35.13	+ 2 10.3	1.772	2.775	1.6	19.6	9 18	23 34.92	- 7 11.1	1.713	2.715	2.1	20.7
9 28	23 28.47	+ 0 43.1	1.780	2.767	4.5	19.8	9 28	23 26.95	- 8 4.6	1.739	2.716	6.0	20.9
10 8	23 22.74	- 0 40.8	1.815	2.759	8.4	20.0	10 8	23 20.12	- 8 45.9	1.792	2.716	9.9	21.2
10 18	23 18.64	- 1 54.7	1.876	2.751	12.0	20.2	10 18	23 15.13	- 9 11.7	1.868	2.717	13.3	21.4
<b>180486</b>	2004 CO <sub>73</sub>		9 16.3 102°38	2°1/14.4	17		<b>43983</b>	1997 GR <sub>35</sub>		9 16.3 337°55	7°5/23.1	18	
8 9	0 4.33	- 4 49.2	1.649	2.491	16.0	20.7	8 9	23 48.65	+ 16 10.2	1.268	2.076	21.8	17.1
8 19	23 59.67	- 5 36.2	1.591	2.508	12.3	20.5	8 19	23 48.65	+ 16 31.3	1.177	2.052	18.8	16.8
8 29	23 52.67	- 6 34.2	1.554	2.525	8.1	20.3	8 29	23 46.05	+ 16 19.3	1.100	2.030	15.2	16.5
9 8	23 44.03	- 7 36.8	1.542	2.541	3.7	20.1	9 8	23 41.31	+ 15 30.6	1.042	2.008	11.2	16.2
9 18	23 34.70	- 8 36.8	1.557	2.558	2.7	20.1	9 18	23 35.25	+ 14 5.4	1.004	1.989	8.0	16.0
9 28	23 25.80	- 9 26.8	1.600	2.573	6.7	20.4	9 28	23 29.16	+ 12 10.5	0.988	1.971	8.0	15.9
10 8	23 18.35	- 10 1.8	1.668	2.589	10.7	20.7	10 8	23 24.39	+ 9 59.2	0.995	1.955	11.4	16.0
10 18	23 13.05	- 10 19.1	1.759	2.604	14.2	20.9	10 18	23 22.04	+ 7 47.2	1.023	1.941	15.8	16.3
<b>519806</b>	2013 HN <sub>31</sub>		9 16.3 203°88	0°1/16.3	18		<b>119886</b>	2002 CC <sub>247</sub>		9 16.3 260°63	0°7/17.1	18	
8 9	0 1.84	- 1 17.5	2.301	3.117	12.9	21.5	8 9	23 56.62	+ 3 23.7	2.262	3.072	13.3	20.4
8 19	23 57.27	- 1 22.3	2.215	3.116	10.1	21.3	8 19	23 53.35	+ 2 46.0	2.170	3.065	10.5	20.2
8 29	23 50.90	- 1 36.3	2.152	3.114	6.8	21.1	8 29	23 48.36	+ 1 53.3	2.100	3.058	7.2	20.0
9 8	23 43.21	- 1 57.1	2.115	3.113	3.2	20.9	9 8	23 42.08	+ 0 48.8	2.056	3.051	3.6	19.7
9 18	23 34.86	- 2 21.2	2.107	3.111	0.6	20.7	9 18	23 35.13	- 0 23.2	2.039	3.043	0.8	19.5
9 28	23 26.66	- 2 44.6	2.127	3.109	4.4	21.0	9 28	23 28.26	- 1 36.5	2.051	3.036	4.3	19.8
10 8	23 19.38	- 3 3.4	2.175	3.107	7.9	21.2	10 8	23 22.25	- 2 44.9	2.092	3.028	7.9	20.0
10 18	23 13.67	- 3 14.5	2.249	3.105	11.1	21.4	10 18	23 17.70	- 3 43.3	2.157	3.021	11.2	20.2
<b>224204</b>	2005 RP <sub>44</sub>		9 16.3 329°70	0°3/16.1	18		<b>73614</b>	2229 T <sub>-3</sub>		9 16.3 157°21	1°1/15.2	18	
8 9	23 57.80	- 1 16.2	1.232	2.096	19.0	20.9	8 9	0 5.34	- 4 52.1	2.241	3.062	13.0	19.2
8 19	23 55.78	- 1 23.8	1.151	2.079	15.1	20.6	8 19	23 59.95	- 5 7.0	2.163	3.068	10.1	19.1
8 29	23 50.82	- 1 48.6	1.089	2.062	10.3	20.3	8 29	23 52.66	- 5 29.2	2.109	3.074	6.7	18.9
9 8	23 43.48	- 2 26.9	1.047	2.047	4.8	20.0	9 8	23 44.02	- 5 55.2	2.081	3.079	3.0	18.6
9 18	23 34.77	- 3 12.3	1.028	2.032	1.2	19.7	9 18	23 34.73	- 6 21.0	2.082	3.084	1.6	18.5
9 28	23 26.14	- 3 56.0	1.033	2.019	7.1	20.0	9 28	23 25.69	- 6 42.2	2.112	3.089	5.1	18.8
10 8	23 19.04	- 4 29.5	1.060	2.007	12.6	20.3	10 8	23 17.70	- 6 55.3	2.171	3.092	8.5	19.0
10 18	23 14.56	- 4 46.8	1.108	1.995	17.5	20.5	10 18	23 11.40	- 6 58.0	2.255	3.096	11.6	19.2
<b>150393</b>	2000 EN		9 16.3 294°46	1°7/15.1	18		<b>102583</b>	1999 UE <sub>47</sub>		9 16.3 294°85	0°1/16.3	18	
8 9	0 5.28	- 5 36.7	1.488	2.336	17.1	19.9	8 9	0 1.31	- 0 52.1	1.750	2.583	15.6	20.2
8 19	0 1.11	- 5 42.5	1.403	2.323	13.4	19.6	8 19	23 57.52	- 1 3.9	1.665	2.575	12.3	20.0
8 29	23 54.13	- 5 58.0	1.339	2.310	9.0	19.4	8 29	23 51.44	- 1 28.9	1.601	2.567	8.3	19.7
9 8	23 44.92	- 6 18.9	1.298	2.297	4.2	19.0	9 8	23 43.59	- 2 3.7	1.560	2.559	3.9	19.5
9 18	23 34.48	- 6 39.4	1.282	2.284	2.3	18.9	9 18	23 34.81	- 2 43.4	1.546	2.551	0.8	19.2
9 28	23 24.17	- 6 53.3	1.292	2.272	7.1	19.2	9 28	23 26.15	- 3 22.1	1.560	2.543	5.5	19.5
10 8	23 15.31	- 6 55.4	1.328	2.259	12.0	19.4	10 8	23 18.68	- 3 53.7	1.599	2.536	9.9	19.8
10 18	23 8.92	- 6 42.9	1.385	2.247	16.3	19.6	10 18	23 13.20	- 4 13.9	1.662	2.528	13.8	20.0
<b>515426</b>	2013 HQ <sub>146</sub>		9 16.3 54°00	0°1/16.4	18		<b>223807</b>	2004 TR <sub>53</sub>		9 16.3 305°81	3°6/12.5	18	
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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>334293</b>	2001 <i>UX</i> <sub>202</sub>		9 16.3 296°27	0°5/16.7	18	R	<b>95586</b>	2002 <i>FN</i> <sub>8</sub>		9 16.3 83°22	1°9/18.4	18	
8 9	0 0.86	+ 0 38.3	1.553	2.390	17.1	21.1	8 9	0 0.43	+ 5 10.3	2.269	3.064	13.7	19.7
8 19	23 57.60	+ 0 28.8	1.462	2.373	13.6	20.8	8 19	23 56.12	+ 5 7.1	2.198	3.080	10.9	19.5
8 29	23 51.76	+ 0 3.1	1.391	2.357	9.4	20.5	8 29	23 50.09	+ 4 50.3	2.148	3.096	7.7	19.4
9 8	23 43.85	- 0 35.9	1.343	2.340	4.5	20.2	9 8	23 42.85	+ 4 21.9	2.123	3.111	4.3	19.2
9 18	23 34.75	- 1 23.3	1.320	2.324	0.9	19.9	9 18	23 35.06	+ 3 45.0	2.126	3.127	1.9	19.0
9 28	23 25.67	- 2 11.9	1.323	2.308	6.0	20.2	9 28	23 27.50	+ 3 4.0	2.157	3.142	4.0	19.2
10 8	23 17.85	- 2 54.1	1.351	2.292	10.9	20.4	10 8	23 20.92	+ 2 23.8	2.217	3.157	7.3	19.5
10 18	23 12.26	- 3 24.1	1.401	2.277	15.3	20.7	10 18	23 15.89	+ 1 48.7	2.302	3.173	10.3	19.7
<b>509958</b>	2009 <i>SN</i> <sub>152</sub>		9 16.3 335°91	2°0/17.5	18		<b>186119</b>	2001 <i>TG</i> <sub>139</sub>		9 16.3 17°38	5°0/12.5	17	
8 9	23 58.44	+ 1 21.3	1.137	1.998	20.5	20.8	8 9	23 56.22	- 8 44.6	1.053	1.944	19.4	19.2
8 19	23 56.55	+ 1 49.3	1.058	1.981	16.5	20.5	8 19	23 54.57	- 9 51.8	1.007	1.951	14.9	19.0
8 29	23 51.50	+ 1 59.7	0.996	1.965	11.7	20.2	8 29	23 49.86	- 11 10.4	0.978	1.959	10.0	18.8
9 8	23 43.88	+ 1 53.8	0.953	1.950	6.2	19.8	9 8	23 42.94	- 12 29.5	0.971	1.969	5.7	18.6
9 18	23 34.73	+ 1 35.1	0.933	1.937	2.1	19.5	9 18	23 35.04	- 13 37.3	0.986	1.980	6.0	18.6
9 28	23 25.63	+ 1 10.2	0.935	1.925	6.8	19.8	9 28	23 27.69	- 14 23.3	1.023	1.992	10.2	18.9
10 8	23 18.18	+ 0 47.5	0.960	1.914	12.6	20.1	10 8	23 22.20	- 14 42.0	1.082	2.006	14.8	19.2
10 18	23 13.58	+ 0 33.9	1.004	1.905	17.7	20.3	10 18	23 19.41	- 14 33.0	1.159	2.021	18.8	19.5
<b>224727</b>	2006 <i>BB</i> <sub>232</sub>		9 16.3 155°31	0°8/15.2	18		<b>321431</b>	2009 <i>QQ</i> <sub>35</sub>		9 16.3 335°18	2°2/13.7	18	
8 9	23 59.18	- 3 32.7	2.600	3.422	11.4	21.1	8 9	23 55.31	- 4 41.9	2.042	2.888	13.2	20.0
8 19	23 54.98	- 3 58.2	2.520	3.426	8.8	21.0	8 19	23 52.52	- 5 47.0	1.963	2.883	10.1	19.8
8 29	23 49.25	- 4 31.3	2.463	3.429	5.8	20.8	8 29	23 47.89	- 7 3.5	1.906	2.878	6.7	19.6
9 8	23 42.43	- 5 8.9	2.433	3.432	2.6	20.6	9 8	23 41.91	- 8 25.6	1.875	2.874	3.2	19.4
9 18	23 35.09	- 5 47.2	2.432	3.435	1.3	20.5	9 18	23 35.24	- 9 46.6	1.871	2.869	2.8	19.3
9 28	23 27.90	- 6 21.9	2.460	3.437	4.4	20.7	9 28	23 28.71	- 10 59.2	1.895	2.865	6.2	19.6
10 8	23 21.52	- 6 49.6	2.517	3.440	7.4	20.9	10 8	23 23.12	- 11 57.5	1.946	2.862	9.7	19.8
10 18	23 16.47	- 7 7.6	2.599	3.442	10.2	21.1	10 18	23 19.11	- 12 38.1	2.020	2.858	12.9	20.0
<b>439813</b>	2015 <i>KH</i> <sub>22</sub>		9 16.3 61°49	7°6/ 8.6	18		<b>225904</b>	2002 <i>AN</i> <sub>25</sub>		9 16.3 230°03	2°2/18.4	18	
8 9	0 0.30	- 17 43.1	1.592	2.462	15.1	20.3	8 9	0 1.35	+ 5 58.9	1.942	2.742	15.5	20.9
8 19	23 56.75	- 19 30.4	1.550	2.478	11.9	20.1	8 19	23 57.39	+ 5 51.1	1.850	2.734	12.5	20.7
8 29	23 50.81	- 21 17.1	1.531	2.493	9.0	20.0	8 29	23 51.28	+ 5 26.2	1.778	2.727	9.0	20.4
9 8	23 43.22	- 22 52.5	1.536	2.509	7.6	20.0	9 8	23 43.54	+ 4 45.7	1.730	2.719	5.1	20.2
9 18	23 34.94	- 24 7.0	1.566	2.525	8.7	20.1	9 18	23 34.89	+ 3 53.2	1.709	2.711	2.3	20.0
9 28	23 27.12	- 24 54.1	1.621	2.541	11.2	20.3	9 28	23 26.33	+ 2 54.3	1.716	2.702	4.8	20.1
10 8	23 20.77	- 25 11.5	1.699	2.557	14.1	20.5	10 8	23 18.82	+ 1 55.9	1.751	2.693	8.8	20.4
10 18	23 16.57	- 25 1.1	1.796	2.573	16.7	20.7	10 18	23 13.12	+ 1 4.1	1.810	2.684	12.5	20.6
<b>328872</b>	2010 <i>AO</i> <sub>92</sub>		9 16.3 306°91	1°5/18.2	18		<b>448676</b>	2010 <i>VH</i> <sub>208</sub>		9 16.3 15°36	1°2/17.5	18	
8 9	23 54.54	+ 6 58.0	2.244	3.043	13.7	20.8	8 9	23 57.78	+ 2 57.1	1.838	2.661	15.4	21.1
8 19	23 51.79	+ 6 11.3	2.150	3.035	11.0	20.6	8 19	23 54.58	+ 2 44.1	1.762	2.664	12.2	20.9
8 29	23 47.34	+ 5 6.4	2.077	3.027	7.8	20.3	8 29	23 49.33	+ 2 15.5	1.707	2.667	8.4	20.7
9 8	23 41.63	+ 3 46.0	2.029	3.019	4.3	20.1	9 8	23 42.59	+ 1 34.3	1.676	2.670	4.3	20.4
9 18	23 35.25	+ 2 14.8	2.009	3.012	1.5	19.9	9 18	23 35.11	+ 0 44.9	1.671	2.675	1.2	20.2
9 28	23 28.96	+ 0 39.5	2.018	3.004	4.1	20.1	9 28	23 27.83	- 0 6.6	1.693	2.679	4.8	20.5
10 8	23 23.50	- 0 52.5	2.055	2.997	7.7	20.3	10 8	23 21.66	- 0 53.9	1.741	2.684	8.8	20.7
10 18	23 19.47	- 2 14.7	2.118	2.989	11.0	20.5	10 18	23 17.28	- 1 32.0	1.814	2.690	12.4	21.0
<b>366284</b>	2013 <i>AM</i> <sub>125</sub>		9 16.3 284°77	1°9/14.8	18		<b>390013</b>	2012 <i>TS</i> <sub>317</sub>		9 16.3 274°52	0°2/16.4	18	
8 9	0 5.29	- 7 14.4	1.873	2.711	14.6	20.7	8 9	23 57.69	+ 2 19.1	1.812	2.639	15.4	20.8
8 19	0 0.45	- 7 20.8	1.788	2.702	11.3	20.5	8 19	23 54.70	+ 1 31.6	1.721	2.627	12.2	20.6
8 29	23 53.32	- 7 33.6	1.725	2.694	7.6	20.3	8 29	23 49.56	+ 0 25.7	1.651	2.615	8.3	20.4
9 8	23 44.44	- 7 48.7	1.687	2.685	3.6	20.0	9 8	23 42.77	- 0 55.0	1.605	2.603	3.9	20.1
9 18	23 34.67	- 8 1.6	1.676	2.677	2.4	19.9	9 18	23 35.06	- 2 23.8	1.586	2.590	0.8	19.8
9 28	23 25.07	- 8 7.6	1.694	2.669	6.2	20.2	9 28	23 27.41	- 3 52.6	1.595	2.578	5.4	20.1
10 8	23 16.66	- 8 3.1	1.737	2.660	10.2	20.4	10 8	23 20.83	- 5 12.8	1.630	2.566	9.8	20.3
10 18	23 10.26	- 7 46.3	1.805	2.652	13.8	20.6	10 18	23 16.08	- 6 17.9	1.689	2.554	13.7	20.6
<b>41569</b>	2000 <i>RC</i> <sub>74</sub>		9 16.3 213°60	2°2/18.3	18		<b>511111</b>	2013 <i>WL</i> <sub>4</sub>		9 16.3 312°72	4°8/12.8	18	
8 9	0 1.56	+ 6 34.1	1.648	2.457	17.5	18.6	8 9	0 1.09	- 10 16.5	1.309	2.181	17.6	21.1
8 19	23 57.90	+ 6 12.3	1.563	2.453	14.1	18.3	8 19	23 58.32	- 10 59.6	1.226	2.160	13.8	20.8
8 29	23 51.80	+ 5 29.0	1.496	2.449	10.1	18.1	8 29	23 52.54	- 11 52.3	1.163	2.139	9.4	20.5
9 8	23 43.81	+ 4 26.1	1.453	2.444	5.6	17.8	9 8	23 44.33	- 12 46.5	1.123	2.119	5.5	20.2
9 18	23 34.80	+ 3 8.9	1.436	2.438	2.2	17.6	9 18	23 34.72	- 13 32.9	1.105	2.099	5.6	20.2
9 28	23 25.93	+ 1 45.3	1.446	2.432	5.4	17.8	9 28	23 25.16	- 14 2.1	1.112	2.080	9.8	20.4
10 8	23 18.31	+ 0 24.6	1.482	2.426	9.9	18.0	10 8	23 17.14	- 14 7.9	1.142	2.061	14.6	20.6
10 18	23 12.82	- 0 45.3	1.542	2.420	14.0	18.3	10 18	23 11.77	- 13 48.5	1.190	2.043	19.0	20.8
<b>90717</b>	1991 <i>PF</i> <sub>3</sub>		9 16.3 15°83	5°3/11.3	18		<b>191029</b>	2002 <i>BR</i>		9 16.3 205°71	1°9/18.1	18	
8 9	23 57.68	- 10 19.8	1.453	2.326	16.2	18.3	8 9	0 2.57	+ 4 35.5	2.025	2.825	14.9	20.2
8 19	23 55.02	- 11 47.1	1.394	2.328	12.4	18.1	8 19	23 58.19	+ 4 31.0	1.936	2.822	12.0	20.0
8 29	23 49.87	- 13 23.6	1.355	2.330	8.5	17.9	8 29	23 51.74	+ 4 11.4	1.867	2.818	8.5	19.8
9 8	23 42.88	- 14 59.4	1.340	2.333	5.5	17.7	9 8	23 43.72	+ 3 38.4	1.824	2.814	4.7	19.6
9 18	23 35.02	- 16 23.9	1.351	2.337	6.2	17.8	9 18	23 34.87	+ 2 55.4	1.807	2.809	1.9	19.4
9 28	23 27.48	- 17 27.8	1.386	2.341	9.7	18.0	9 28	23 26.14	+ 2 7.6	1.819	2.804	4.6	19.5
10 8	23 21.38	- 18 5.6	1.445	2.346	13.5	18.2	10 8	23 18.44	+ 1 21.1	1.859	2.799	8.5	19.8
10 18	23 17.49	- 18 16.2	1.524	2.351	16.9	18.5	10 18	23 12.52	+ 0 40.9	1.923	2.793	12.0	20.0
<b>142065</b>	2002 <i>QL</i> <sub>33</sub>		9 16.3 2°63	3°0/14.2	15								

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>173576</b>	2001 <i>BR</i> <sub>55</sub>		9 16.3 179°19	2°2/14.0	18		<b>85498</b>	1997 <i>TQ</i> <sub>12</sub>		9 16.3 304°06	0°8/17.9	18	
8 9	0 1.90	- 3 28.4	1.855	2.691	14.8	20.7	8 9	23 51.63	+ 3 34.8	4.320	5.108	7.8	20.2
8 19	23 57.79	- 4 41.4	1.779	2.693	11.4	20.5	8 19	23 48.67	+ 3 19.5	4.223	5.104	6.2	20.0
8 29	23 51.51	- 6 8.1	1.724	2.694	7.5	20.3	8 29	23 44.84	+ 2 57.1	4.150	5.099	4.3	19.9
9 8	23 43.62	- 7 42.1	1.696	2.695	3.5	20.0	9 8	23 40.40	+ 2 29.0	4.105	5.095	2.3	19.8
9 18	23 34.92	- 9 15.3	1.695	2.695	2.8	20.0	9 18	23 35.66	+ 1 56.9	4.089	5.091	0.8	19.6
9 28	23 26.42	-10 39.2	1.723	2.694	6.6	20.2	9 28	23 30.97	+ 1 23.1	4.103	5.087	2.3	19.8
10 8	23 19.08	-11 46.8	1.778	2.692	10.6	20.5	10 8	23 26.68	+ 0 50.1	4.146	5.083	4.3	19.9
10 18	23 13.65	-12 34.3	1.856	2.690	14.0	20.7	10 18	23 23.10	+ 0 20.0	4.217	5.079	6.2	20.0
<b>333716</b>	2009 <i>RG</i> <sub>52</sub>		9 16.3 355°91	0°4/16.0	18		<b>509912</b>	2009 <i>FD</i> <sub>17</sub>		9 16.3 198°80	4°9/10.9	18	
8 9	23 54.62	- 0 20.8	1.086	1.960	20.3	20.7	8 9	0 8.33	-18 56.9	2.697	3.525	10.9	22.7
8 19	23 53.44	- 0 42.9	1.021	1.954	15.9	20.5	8 19	0 2.05	-19 32.7	2.617	3.520	8.6	22.5
8 29	23 49.27	- 1 26.2	0.973	1.950	10.8	20.2	8 29	23 54.00	-20 6.6	2.563	3.516	6.4	22.4
9 8	23 42.78	- 2 25.4	0.946	1.947	4.9	19.8	9 8	23 44.69	-20 33.8	2.536	3.510	4.9	22.3
9 18	23 35.09	- 3 31.8	0.941	1.945	1.3	19.6	9 18	23 34.79	-20 49.5	2.538	3.504	5.4	22.3
9 28	23 27.68	- 4 34.5	0.958	1.945	7.3	20.0	9 28	23 25.09	-20 50.6	2.570	3.497	7.3	22.4
10 8	23 21.97	- 5 23.5	0.998	1.947	12.9	20.3	10 8	23 16.37	-20 35.6	2.630	3.489	9.7	22.5
10 18	23 18.95	- 5 52.4	1.056	1.949	17.7	20.6	10 18	23 9.22	-20 5.0	2.714	3.481	11.9	22.7
<b>138054</b>	2000 <i>DC</i> <sub>38</sub>		9 16.3 143°38	2°0/13.9	18		<b>157463</b>	2004 <i>XM</i> <sub>77</sub>		9 16.3 241°20	3°2/20.3	18	
8 9	23 58.57	- 3 50.3	2.182	3.016	12.9	20.1	8 9	23 57.16	+10 29.8	2.482	3.251	13.3	20.2
8 19	23 54.83	- 5 2.7	2.109	3.023	9.9	19.9	8 19	23 53.66	+10 23.2	2.388	3.248	11.0	20.0
8 29	23 49.33	- 6 26.1	2.060	3.029	6.5	19.7	8 29	23 48.55	+10 0.5	2.314	3.244	8.2	19.9
9 8	23 42.55	- 7 54.9	2.037	3.036	3.0	19.5	9 8	23 42.23	+ 9 22.4	2.265	3.240	5.4	19.7
9 18	23 35.17	- 9 22.2	2.043	3.042	2.5	19.4	9 18	23 35.28	+ 8 31.6	2.243	3.236	3.3	19.5
9 28	23 27.98	-10 41.1	2.078	3.048	5.8	19.7	9 28	23 28.42	+ 7 32.0	2.250	3.232	4.2	19.6
10 8	23 21.75	-11 46.1	2.141	3.053	9.2	19.9	10 8	23 22.35	+ 6 29.3	2.285	3.228	6.9	19.8
10 18	23 17.08	-12 33.7	2.228	3.058	12.1	20.1	10 18	23 17.63	+ 5 28.8	2.346	3.224	9.8	19.9
<b>381113</b>	2007 <i>DU</i> <sub>22</sub>		9 16.3 263°49	1°4/14.9	18		<b>78474</b>	2002 <i>RB</i> <sub>49</sub>		9 16.3 266°54	1°7/15.0	18	
8 9	23 59.51	- 1 52.7	1.660	2.502	15.9	21.4	8 9	0 4.88	- 5 1.8	1.592	2.435	16.4	19.1
8 19	23 56.31	- 2 46.7	1.575	2.492	12.4	21.1	8 19	0 0.65	- 5 20.4	1.506	2.423	12.8	18.9
8 29	23 50.74	- 3 56.9	1.512	2.482	8.2	20.8	8 29	23 53.77	- 5 50.0	1.441	2.411	8.6	18.6
9 8	23 43.36	- 5 18.0	1.472	2.472	3.7	20.6	9 8	23 44.83	- 6 25.8	1.399	2.399	4.0	18.3
9 18	23 34.99	- 6 42.2	1.459	2.462	2.1	20.4	9 18	23 34.74	- 7 1.8	1.384	2.386	2.3	18.2
9 28	23 26.72	- 8 0.5	1.473	2.451	6.6	20.7	9 28	23 24.75	- 7 31.0	1.396	2.374	6.9	18.4
10 8	23 19.65	- 9 4.8	1.513	2.441	11.1	20.9	10 8	23 16.12	- 7 47.9	1.432	2.361	11.5	18.7
10 18	23 14.62	- 9 49.9	1.575	2.430	15.0	21.1	10 18	23 9.78	- 7 49.3	1.491	2.348	15.6	18.9
<b>224749</b>	2006 <i>DL</i> <sub>86</sub>		9 16.3 321°13	1°1/15.3	18		<b>286891</b>	2002 <i>PF</i> <sub>28</sub>		9 16.3 326°42	4°1/19.2	18	
8 9	0 1.84	- 5 21.1	2.068	2.903	13.5	20.0	8 9	23 58.64	+ 6 21.8	1.451	2.276	18.7	19.7
8 19	23 57.59	- 5 23.7	1.980	2.892	10.5	19.8	8 19	23 56.22	+ 6 59.3	1.355	2.252	15.4	19.4
8 29	23 51.33	- 5 33.5	1.913	2.881	7.0	19.5	8 29	23 51.09	+ 7 19.0	1.277	2.228	11.5	19.1
9 8	23 43.54	- 5 47.0	1.872	2.871	3.2	19.3	9 8	23 43.72	+ 7 20.0	1.219	2.206	7.2	18.8
9 18	23 34.96	- 6 0.6	1.858	2.861	1.6	19.1	9 18	23 34.95	+ 7 3.3	1.186	2.184	4.2	18.5
9 28	23 26.50	- 6 10.0	1.872	2.851	5.3	19.4	9 28	23 26.05	+ 6 33.5	1.177	2.163	6.4	18.6
10 8	23 19.05	- 6 11.5	1.914	2.842	9.1	19.6	10 8	23 18.38	+ 5 57.5	1.191	2.143	10.9	18.8
10 18	23 13.32	- 6 3.0	1.979	2.833	12.5	19.8	10 18	23 13.06	+ 5 23.2	1.228	2.124	15.5	19.0
<b>436092</b>	2009 <i>SQ</i> <sub>214</sub>		9 16.3 333°40	0°1/16.4	18		<b>161323</b>	2003 <i>QF</i> <sub>39</sub>		9 16.3 39°40	0°2/16.4	18	
8 9	23 55.20	+ 0 47.2	1.205	2.068	19.4	20.7	8 9	0 3.74	- 1 19.4	1.364	2.211	18.5	19.5
8 19	23 53.79	+ 0 24.3	1.126	2.052	15.4	20.4	8 19	23 59.68	- 1 17.1	1.311	2.227	14.4	19.3
8 29	23 49.52	+ 0 20.4	1.065	2.038	10.5	20.1	8 29	23 52.93	- 1 29.0	1.276	2.245	9.7	19.1
9 8	23 42.95	+ 1 22.7	1.025	2.024	5.0	19.7	9 8	23 44.30	- 1 51.0	1.264	2.263	4.5	18.9
9 18	23 35.07	+ 2 35.2	1.007	2.012	1.0	19.4	9 18	23 34.89	- 2 17.7	1.277	2.282	0.9	18.7
9 28	23 27.29	+ 3 47.2	1.013	2.000	7.0	19.8	9 28	23 26.00	- 2 42.6	1.316	2.301	6.0	19.1
10 8	23 21.02	+ 4 48.1	1.042	1.990	12.6	20.0	10 8	23 18.79	- 3 0.0	1.379	2.321	10.7	19.4
10 18	23 17.32	+ 5 30.2	1.091	1.981	17.5	20.3	10 18	23 14.02	- 3 6.0	1.465	2.341	14.7	19.7
<b>272572</b>	2005 <i>UR</i> <sub>516</sub>		9 16.3 55°92	2°4/14.4	16		<b>23390</b>	1186 <i>T</i> <sub>-3</sub>		9 16.3 1°95	0°2/16.4	18	
8 9	0 2.36	- 4 39.7	1.343	2.201	18.1	21.1	8 9	0 5.01	- 2 47.8	1.937	2.762	14.6	18.7
8 19	23 58.63	- 5 26.4	1.292	2.218	13.9	20.9	8 19	0 0.10	- 2 27.5	1.856	2.761	11.5	18.5
8 29	23 52.23	- 6 26.0	1.262	2.236	9.1	20.7	8 29	23 53.03	- 2 15.2	1.797	2.761	7.8	18.2
9 8	23 43.96	- 7 31.1	1.254	2.254	4.2	20.4	9 8	23 44.35	- 2 8.9	1.764	2.761	3.6	18.0
9 18	23 34.92	- 8 32.9	1.272	2.273	3.1	20.4	9 18	23 34.87	- 2 5.7	1.757	2.762	0.7	17.8
9 28	23 26.42	- 9 23.1	1.315	2.291	7.5	20.7	9 28	23 25.61	- 2 2.0	1.780	2.763	5.0	18.1
10 8	23 19.60	- 9 55.6	1.382	2.310	11.9	21.0	10 8	23 17.52	- 1 54.7	1.829	2.764	9.0	18.3
10 18	23 15.20	-10 8.1	1.471	2.329	15.7	21.3	10 18	23 11.33	- 1 41.0	1.903	2.766	12.4	18.5
<b>5434</b>	Tomwhitney		9 16.3 230°15	0°1/16.1	18		<b>137227</b>	1999 <i>RR</i> <sub>19</sub>		9 16.3 6°80	0°9/15.6	18	
8 9	23 55.66	+ 1 32.4	2.571	3.383	11.8	17.7	8 9	23 50.81	+ 0 28.1	0.923	1.812	21.8	19.0
8 19	23 52.40	+ 0 35.5	2.479	3.378	9.2	17.5	8 19	23 50.78	- 0 18.9	0.870	1.811	17.0	18.7
8 29	23 47.65	- 0 34.3	2.410	3.372	6.2	17.3	8 29	23 47.62	- 1 32.4	0.833	1.813	11.4	18.4
9 8	23 41.79	- 1 53.6	2.369	3.367	2.8	17.1	9 8	23 42.07	- 3 4.6	0.815	1.817	5.1	18.1
9 18	23 35.36	- 3 17.4	2.357	3.361	0.7	16.9	9 18	23 35.34	- 4 43.1	0.818	1.822	1.9	17.9
9 28	23 29.01	- 4 39.9	2.374	3.355	4.2	17.2	9 28	23 29.03	- 6 13.1	0.843	1.830	8.1	18.3
10 8	23 23.40	- 5 55.3	2.421	3.349	7.4	17.4	10 8	23 24.57	- 7 22.4	0.889	1.839	13.8	18.7
10 18	23 19.06	- 6 59.2	2.493	3.343	10.3	17.6	10 18	23 22.89	- 8 4.2	0.952	1.850	18.8	19.0
<b>250322</b>	2003 <i>SC</i> <sub>7</sub>		9 16.3 323°27	1°0/15.7	17		<b>274973</b>	2009 <i>SP</i> <sub>348</sub>					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>188655</b>	2005 <i>SR</i> <sub>62</sub>		9 16.3 274°33		0°1/16.2 18		<b>155387</b>	1994 <i>AC</i> <sub>9</sub>		9 16.3 340°71		0°7/15.6 18	
8 9	23 58.36	- 0 4.1	2.162	2.984	13.4	21.5	8 9	23 56.30	- 1 53.0	1.865	2.706	14.5	20.1
8 19	23 54.82	- 0 32.1	2.072	2.977	10.5	21.3	8 19	23 53.52	- 2 21.4	1.781	2.697	11.3	19.9
8 29	23 49.44	- 1 12.5	2.005	2.969	7.1	21.1	8 29	23 48.73	- 3 2.4	1.719	2.688	7.5	19.7
9 8	23 42.69	- 2 2.0	1.963	2.961	3.3	20.8	9 8	23 42.42	- 3 51.9	1.681	2.680	3.4	19.4
9 18	23 35.22	- 2 56.1	1.948	2.953	0.7	20.6	9 18	23 35.32	- 4 44.7	1.669	2.673	1.3	19.2
9 28	23 27.84	- 3 49.0	1.962	2.945	4.7	20.9	9 28	23 28.33	- 5 34.2	1.685	2.666	5.5	19.5
10 8	23 21.36	- 4 35.4	2.004	2.937	8.4	21.1	10 8	23 22.38	- 6 14.6	1.726	2.660	9.5	19.7
10 18	23 16.45	- 5 11.1	2.070	2.929	11.8	21.3	10 18	23 18.17	- 6 41.7	1.791	2.655	13.1	20.0
<b>156200</b>	2001 <i>UB</i> <sub>39</sub>		9 16.3 290°08		0°7/16.9 18		<b>249515</b>	Heinrichsen		9 16.3 174°95		5°9/ 9.6 18	
8 9	23 59.67	+ 2 8.5	1.597	2.429	16.9	20.4	8 9	0 2.84	-18 5.5	2.179	3.028	12.4	21.2
8 19	23 56.64	+ 1 47.9	1.504	2.412	13.5	20.2	8 19	23 58.23	-19 17.1	2.114	3.030	9.8	21.1
8 29	23 51.13	+ 1 14.8	1.431	2.395	9.4	19.9	8 29	23 51.67	-20 28.6	2.073	3.031	7.3	20.9
9 8	23 43.64	+ 0 8.3	1.381	2.378	4.6	19.6	9 8	23 43.71	-21 32.9	2.059	3.032	6.0	20.8
9 18	23 35.01	- 0 50.3	1.357	2.361	0.9	19.3	9 18	23 35.08	-22 23.2	2.072	3.033	6.7	20.9
9 28	23 26.38	- 1 57.2	1.359	2.345	5.8	19.6	9 28	23 26.70	-22 54.6	2.112	3.033	8.9	21.0
10 8	23 18.94	- 2 57.9	1.386	2.328	10.7	19.8	10 8	23 19.42	-23 4.6	2.176	3.033	11.5	21.2
10 18	23 13.64	- 3 45.5	1.436	2.312	15.0	20.0	10 18	23 13.87	-22 53.5	2.263	3.033	13.9	21.4
<b>516361</b>	2017 <i>CG</i> <sub>2</sub>		9 16.3 259°97		2°3/13.4 18		<b>6891</b>	Triconia		9 16.3 345°79		0°8/15.5 18	
8 9	23 56.62	- 6 0.3	2.339	3.179	12.0	21.2	8 9	23 57.60	- 0 45.0	1.690	2.532	15.7	17.2
8 19	23 53.32	- 7 3.1	2.255	3.172	9.2	21.0	8 19	23 54.71	- 1 32.0	1.613	2.529	12.2	17.0
8 29	23 48.36	- 8 15.0	2.194	3.165	6.0	20.8	8 29	23 49.60	- 2 34.8	1.557	2.527	8.2	16.7
9 8	23 42.17	- 9 30.9	2.160	3.158	3.0	20.6	9 8	23 42.85	- 3 48.5	1.525	2.525	3.7	16.5
9 18	23 35.34	-10 44.9	2.155	3.151	2.9	20.6	9 18	23 35.25	- 5 5.9	1.520	2.523	1.5	16.3
9 28	23 28.61	-11 50.8	2.178	3.144	5.8	20.7	9 28	23 27.84	- 6 18.7	1.541	2.522	6.0	16.6
10 8	23 22.72	-12 43.7	2.229	3.137	9.0	20.9	10 8	23 21.60	- 7 19.6	1.588	2.521	10.3	16.9
10 18	23 18.24	-13 20.6	2.303	3.130	11.9	21.1	10 18	23 17.29	- 8 3.4	1.658	2.520	14.0	17.1
<b>319450</b>	2006 <i>KO</i> <sub>69</sub>		9 16.3 316°44		0°6/16.9 18		<b>449005</b>	2012 <i>BX</i> <sub>75</sub>		9 16.3 91°63		6°0/ 8.5 18	
8 9	23 57.02	+ 2 57.4	1.681	2.511	16.3	20.6	8 9	23 58.63	-18 37.0	2.275	3.130	11.7	21.3
8 19	23 54.33	+ 2 18.8	1.596	2.503	12.9	20.4	8 19	23 54.87	-20 6.5	2.223	3.141	9.2	21.1
8 29	23 49.40	+ 1 20.9	1.532	2.496	8.9	20.1	8 29	23 49.35	-21 35.3	2.196	3.152	7.1	21.0
9 8	23 42.76	+ 0 7.5	1.492	2.489	4.3	19.8	9 8	23 42.61	-22 55.9	2.195	3.163	6.0	21.0
9 18	23 35.21	- 1 15.1	1.478	2.482	0.8	19.6	9 18	23 35.32	-24 1.8	2.221	3.174	6.9	21.1
9 28	23 27.78	- 2 38.4	1.490	2.475	5.4	19.9	9 28	23 28.28	-24 48.1	2.274	3.185	8.9	21.2
10 8	23 21.49	- 3 53.8	1.529	2.469	9.9	20.1	10 8	23 22.24	-25 12.3	2.351	3.195	11.2	21.4
10 18	23 17.15	- 4 54.6	1.590	2.463	13.9	20.4	10 18	23 17.77	-25 14.8	2.450	3.206	13.3	21.5
<b>100923</b>	1998 <i>LU</i> <sub>1</sub>		9 16.3 53°83		3°0/14.0 17		<b>410098</b>	2007 <i>EM</i> <sub>105</sub>		9 16.3 247°97		0°6/15.6 18	
8 9	0 3.04	- 5 32.3	1.219	2.084	19.1	19.6	8 9	23 58.80	- 2 1.5	2.347	3.170	12.4	22.3
8 19	23 59.35	- 6 25.4	1.174	2.104	14.6	19.4	8 19	23 55.00	- 2 30.0	2.258	3.164	9.7	22.1
8 29	23 52.79	- 7 31.3	1.149	2.125	9.5	19.2	8 29	23 49.49	- 3 8.5	2.192	3.157	6.5	21.9
9 8	23 44.25	- 8 41.2	1.147	2.146	4.6	19.0	9 8	23 42.72	- 3 53.7	2.152	3.151	2.9	21.7
9 18	23 34.94	- 9 45.5	1.168	2.168	3.7	19.0	9 18	23 35.29	- 4 41.3	2.140	3.144	1.1	21.5
9 28	23 26.28	-10 35.1	1.215	2.190	8.2	19.3	9 28	23 27.96	- 5 26.2	2.157	3.137	4.6	21.8
10 8	23 19.47	-11 4.3	1.285	2.211	12.7	19.6	10 8	23 21.48	- 6 3.9	2.202	3.130	8.1	22.0
10 18	23 15.27	-11 11.4	1.375	2.234	16.6	19.9	10 18	23 16.45	- 6 31.0	2.272	3.123	11.2	22.1
<b>28715</b>	Garimella		9 16.3 53°75		1°2/15.1 18		<b>287970</b>	2003 <i>UR</i> <sub>135</sub>		9 16.3 293°78		3°8/19.5 18	
8 9	23 59.44	- 2 56.7	1.853	2.692	14.6	19.4	8 9	0 0.46	+ 8 19.7	1.818	2.614	16.6	20.9
8 19	23 55.85	- 3 35.1	1.781	2.696	11.3	19.2	8 19	23 57.11	+ 8 35.2	1.711	2.589	13.7	20.6
8 29	23 50.20	- 4 25.4	1.731	2.701	7.5	19.0	8 29	23 51.42	+ 8 32.5	1.623	2.565	10.3	20.4
9 8	23 43.04	- 5 22.6	1.706	2.705	3.4	18.7	9 8	23 43.82	+ 8 11.4	1.558	2.540	6.5	20.1
9 18	23 35.18	- 6 20.7	1.707	2.710	1.8	18.6	9 18	23 35.04	+ 7 33.3	1.519	2.515	3.8	19.9
9 28	23 27.55	- 7 13.1	1.737	2.715	5.7	18.9	9 28	23 26.12	+ 6 43.0	1.506	2.490	5.5	19.9
10 8	23 21.05	- 7 54.1	1.792	2.720	9.6	19.2	10 8	23 18.19	+ 5 47.4	1.519	2.466	9.5	20.1
10 18	23 16.38	- 8 20.2	1.872	2.725	13.1	19.4	10 18	23 12.20	+ 4 53.7	1.557	2.441	13.5	20.3
<b>37492</b>	1115 <i>T</i> <sub>-2</sub>		9 16.3 65°83		1°5/17.6 18		<b>328539</b>	2009 <i>RZ</i> <sub>28</sub>		9 16.3 352°89		0°7/17.0 18	
8 9	0 1.00	+ 5 18.2	1.272	2.107	20.2	18.8	8 9	0 0.79	+ 0 24.4	2.110	2.928	13.9	20.4
8 19	23 57.82	+ 4 42.9	1.215	2.122	16.1	18.6	8 19	23 56.71	+ 0 27.8	2.027	2.926	10.9	20.2
8 29	23 51.86	+ 3 42.6	1.176	2.138	11.1	18.4	8 29	23 50.72	+ 0 20.3	1.965	2.925	7.5	20.0
9 8	23 43.88	+ 2 22.4	1.159	2.154	5.7	18.1	9 8	23 43.31	+ 0 4.1	1.928	2.924	3.7	19.8
9 18	23 35.02	+ 0 50.4	1.166	2.170	1.5	17.9	9 18	23 35.19	- 0 17.5	1.918	2.923	0.8	19.6
9 28	23 26.63	- 0 42.2	1.199	2.187	6.0	18.3	9 28	23 27.21	- 0 40.4	1.937	2.922	4.5	19.9
10 8	23 19.93	- 2 4.6	1.256	2.203	11.0	18.6	10 8	23 20.23	- 1 0.1	1.983	2.922	8.2	20.1
10 18	23 15.74	- 3 9.3	1.336	2.219	15.4	18.9	10 18	23 14.90	- 1 13.2	2.054	2.922	11.5	20.3
<b>164951</b>	1999 <i>XM</i> <sub>242</sub>		9 16.3 210°83		6°1/ 9.4 18		<b>212873</b>	2007 <i>VP</i> <sub>184</sub>		9 16.3 284°58		3°6/12.9 18	
8 9	0 4.81	-20 26.5	2.379	3.221	11.7	20.4	8 9	0 1.16	- 9 53.9	1.883	2.733	14.0	20.5
8 19	23 59.66	-21 26.9	2.306	3.214	9.4	20.3	8 19	23 57.23	-10 41.2	1.808	2.731	10.8	20.2
8 29	23 52.59	-22 25.4	2.256	3.207	7.2	20.1	8 29	23 51.17	-11 34.8	1.757	2.728	7.3	20.0
9 8	23 44.12	-23 15.7	2.233	3.199	6.1	20.0	9 8	23 43.54	-12 28.8	1.730	2.725	4.2	19.8
9 18	23 34.97	-23 51.7	2.238	3.191	6.8	20.1	9 18	23 35.14	-13 16.4	1.731	2.723	4.2	19.8
9 28	23 26.01	-24 9.1	2.269	3.183	8.8	20.2	9 28	23 26.95	-13 51.5	1.758	2.720	7.4	20.0
10 8	23 18.08	-24 6.0	2.327	3.173	11.2	20.3	10 8	23 19.91	-14 10.0	1.811	2.717	10.9	20.2
10 18	23 11.84	-23 43.0	2.406	3.163	13.5	20.5	10 18	23 14.74	-14 10.2	1.887	2.715	14.1	20.4
<b>99285</b>	2001 <i>QT</i> <sub>138</sub>		9 16.3 358°38		10								

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>491654</b>	2012 <i>TE</i> <sub>255</sub>		9 16.3 337°45	0°1/16.4 18			<b>67708</b>	2000 <i>TO</i> <sub>34</sub>		9 16.3 256°36	1°7/14.9 18		
8 9	23 58.26	- 2 15.1	1.199	2.066	19.2	20.5	8 9	0 2.95	- 3 21.4	1.556	2.401	16.7	19.9
8 19	23 56.32	- 1 59.7	1.118	2.046	15.3	20.2	8 19	23 59.27	- 4 1.9	1.469	2.387	13.1	19.6
8 29	23 51.36	- 1 58.1	1.054	2.028	10.5	19.9	8 29	23 52.95	- 4 57.3	1.403	2.374	8.7	19.3
9 8	23 43.93	- 2 7.4	1.010	2.010	5.0	19.6	9 8	23 44.55	- 6 2.4	1.360	2.360	4.0	19.0
9 18	23 35.05	- 2 22.7	0.990	1.994	1.0	19.2	9 18	23 34.98	- 7 9.5	1.343	2.345	2.4	18.9
9 28	23 26.21	- 2 37.4	0.992	1.980	7.0	19.6	9 28	23 25.47	- 8 9.9	1.353	2.331	7.1	19.1
10 8	23 18.92	- 2 44.5	1.017	1.967	12.6	19.9	10 8	23 17.27	- 8 56.0	1.388	2.316	11.9	19.4
10 18	23 14.34	- 2 39.1	1.062	1.956	17.6	20.1	10 18	23 11.34	- 9 23.2	1.445	2.300	16.1	19.6
<b>98233</b>	2000 <i>SN</i> <sub>151</sub>		9 16.3 346°81	1°0/15.6 18			<b>119766</b>	2001 <i>YA</i> <sub>130</sub>		9 16.3 352°90	1°6/14.8 18		
8 9	23 57.87	- 2 23.7	1.305	2.167	18.2	18.5	8 9	0 0.68	- 5 12.9	1.999	2.837	13.8	20.2
8 19	23 55.60	- 2 44.7	1.232	2.159	14.3	18.2	8 19	23 56.73	- 5 37.5	1.921	2.836	10.6	20.0
8 29	23 50.58	- 3 21.5	1.178	2.153	9.6	18.0	8 29	23 50.78	- 6 10.8	1.866	2.836	7.0	19.7
9 8	23 43.44	- 4 9.3	1.146	2.147	4.3	17.6	9 8	23 43.37	- 6 48.4	1.836	2.835	3.3	19.5
9 18	23 35.17	- 5 0.8	1.138	2.142	1.7	17.4	9 18	23 35.25	- 7 25.4	1.833	2.835	2.1	19.4
9 28	23 27.12	- 5 47.3	1.154	2.138	7.0	17.8	9 28	23 27.32	- 7 56.4	1.858	2.834	5.7	19.7
10 8	23 20.57	- 6 21.1	1.193	2.135	12.1	18.1	10 8	23 20.46	- 8 17.0	1.910	2.834	9.4	19.9
10 18	23 16.45	- 6 37.4	1.254	2.133	16.5	18.3	10 18	23 15.33	- 8 24.7	1.985	2.834	12.6	20.1
<b>26487</b>	2000 <i>AV</i> <sub>236</sub>		9 16.3 8°59	4°5/19.9 18			<b>115917</b>	2003 <i>WE</i> <sub>8</sub>		9 16.3 216°06	5°1/21.8 18		
8 9	23 56.84	+ 8 51.5	1.186	2.019	21.5	16.7	8 9	0 1.48	+ 14 29.1	2.246	2.991	15.2	20.5
8 19	23 55.01	+ 9 8.0	1.119	2.020	17.6	16.5	8 19	23 57.32	+ 14 47.9	2.148	2.985	12.9	20.3
8 29	23 50.28	+ 8 57.5	1.070	2.022	13.1	16.2	8 29	23 51.22	+ 14 48.1	2.071	2.980	10.2	20.1
9 8	23 43.32	+ 8 20.4	1.040	2.025	8.2	16.0	9 8	23 43.62	+ 14 28.9	2.016	2.973	7.3	19.9
9 18	23 35.21	+ 7 20.8	1.032	2.030	4.6	15.8	9 18	23 35.19	+ 13 51.3	1.987	2.967	5.3	19.8
9 28	23 27.38	+ 6 7.5	1.047	2.035	6.6	15.9	9 28	23 26.81	+ 12 58.8	1.986	2.960	5.6	19.8
10 8	23 21.19	+ 4 52.0	1.085	2.041	11.2	16.2	10 8	23 19.34	+ 11 57.3	2.013	2.952	8.0	19.9
10 18	23 17.61	+ 3 44.6	1.144	2.049	15.7	16.5	10 18	23 13.49	+ 10 53.3	2.066	2.944	10.9	20.1
<b>477483</b>	2010 <i>AO</i> <sub>132</sub>		9 16.3 319°78	8°4/ 9.0 18			<b>211094</b>	2002 <i>EA</i> <sub>81</sub>		9 16.3 89°27	1°1/17.3 17		
8 9	0 2.54	- 20 27.9	1.541	2.410	15.6	20.1	8 9	0 6.60	+ 2 37.2	1.457	2.281	18.6	20.7
8 19	23 58.98	- 21 39.8	1.474	2.398	12.6	19.9	8 19	0 1.78	+ 2 24.3	1.400	2.302	14.7	20.5
8 29	23 52.70	- 22 50.3	1.427	2.386	9.9	19.7	8 29	23 54.34	+ 1 53.3	1.362	2.323	10.1	20.3
9 8	23 44.37	- 23 49.2	1.404	2.375	8.4	19.6	9 8	23 45.03	+ 1 8.0	1.348	2.343	5.0	20.0
9 18	23 35.00	- 24 27.3	1.405	2.364	9.4	19.6	9 18	23 34.94	+ 0 14.4	1.359	2.363	1.2	19.8
9 28	23 25.90	- 24 37.5	1.429	2.353	12.1	19.8	9 28	23 25.37	- 0 39.8	1.398	2.383	5.7	20.2
10 8	23 18.32	- 24 18.0	1.476	2.344	15.3	19.9	10 8	23 17.45	- 1 27.2	1.462	2.403	10.3	20.5
10 18	23 13.13	- 23 30.5	1.541	2.334	18.3	20.1	10 18	23 11.96	- 2 2.3	1.549	2.422	14.2	20.8
<b>157670</b>	2005 <i>YP</i> <sub>92</sub>		9 16.3 143°31	1°1/17.8 18			<b>506875</b>	2008 <i>AN</i> <sub>9</sub>		9 16.3 236°90	5°0/20.3 17		
8 9	23 58.61	+ 3 49.2	2.706	3.500	11.8	20.9	8 9	0 3.56	+ 10 32.7	1.583	2.374	18.8	21.8
8 19	23 54.55	+ 3 31.8	2.623	3.507	9.3	20.7	8 19	23 59.72	+ 10 57.8	1.497	2.369	15.7	21.6
8 29	23 49.03	+ 3 2.9	2.562	3.513	6.5	20.6	8 29	23 53.24	+ 11 1.3	1.430	2.365	11.9	21.4
9 8	23 42.47	+ 2 24.8	2.528	3.520	3.4	20.4	9 8	23 44.69	+ 10 42.1	1.384	2.360	8.0	21.1
9 18	23 35.40	+ 1 40.5	2.523	3.526	1.1	20.2	9 18	23 34.97	+ 10 2.0	1.362	2.354	5.1	21.0
9 28	23 28.47	+ 0 54.0	2.547	3.532	3.5	20.4	9 28	23 25.34	+ 9 6.2	1.367	2.349	6.3	21.0
10 8	23 22.31	+ 0 9.7	2.600	3.537	6.5	20.6	10 8	23 17.04	+ 8 3.2	1.397	2.344	10.1	21.2
10 18	23 17.41	- 0 28.8	2.679	3.542	9.3	20.8	10 18	23 11.03	+ 7 1.6	1.450	2.338	14.1	21.5
<b>392340</b>	2010 <i>EQ</i> <sub>122</sub>		9 16.3 102°42	2°7/19.2 17			<b>163070</b>	2002 <i>AO</i> <sub>7</sub>		9 16.3 247°49	4°4/23.2 17		
8 9	0 0.00	+ 8 9.8	1.933	2.726	15.8	21.7	8 9	0 1.54	+ 18 45.7	3.670	4.351	10.8	25.0
8 19	23 56.24	+ 7 54.7	1.858	2.736	12.8	21.5	8 19	23 56.67	+ 18 52.9	3.537	4.324	9.3	24.8
8 29	23 50.45	+ 7 20.8	1.802	2.746	9.3	21.3	8 29	23 50.45	+ 18 46.1	3.424	4.296	7.6	24.7
9 8	23 43.20	+ 6 29.9	1.770	2.755	5.5	21.1	9 8	23 43.18	+ 18 24.8	3.337	4.267	5.9	24.5
9 18	23 35.25	+ 5 26.2	1.765	2.764	2.7	20.9	9 18	23 35.29	+ 17 49.2	3.277	4.237	4.6	24.4
9 28	23 27.52	+ 4 15.8	1.787	2.773	4.6	21.1	9 28	23 27.32	+ 17 1.1	3.248	4.205	4.6	24.4
10 8	23 20.90	+ 3 6.2	1.837	2.782	8.3	21.3	10 8	23 19.82	+ 16 3.7	3.249	4.173	5.9	24.4
10 18	23 16.05	+ 2 3.5	1.912	2.791	11.7	21.5	10 18	23 13.31	+ 15 1.3	3.278	4.140	7.8	24.5
<b>389560</b>	2010 <i>UN</i> <sub>93</sub>		9 16.3 272°94	0°0/16.3 18			<b>47553</b>	2000 <i>AE</i> <sub>129</sub>		9 16.3 333°49	1°1/15.6 18		
8 9	23 52.91	- 1 28.1	4.369	5.175	7.4	21.5	8 9	23 54.85	- 1 15.0	1.137	2.010	19.6	18.1
8 19	23 49.66	- 1 42.4	4.273	5.169	5.7	21.4	8 19	23 53.73	- 1 45.7	1.060	1.993	15.5	17.8
8 29	23 45.53	- 2 1.8	4.202	5.162	3.8	21.2	8 29	23 49.64	- 2 37.4	1.001	1.977	10.4	17.4
9 8	23 40.79	- 2 24.7	4.158	5.155	1.8	21.1	9 8	23 43.15	- 3 45.0	0.962	1.963	4.8	17.1
9 18	23 35.74	- 2 49.3	4.144	5.149	0.4	20.9	9 18	23 35.28	- 4 59.6	0.945	1.949	1.9	16.9
9 28	23 30.74	- 3 13.4	4.161	5.142	2.5	21.1	9 28	23 27.49	- 6 9.7	0.952	1.937	7.8	17.2
10 8	23 26.14	- 3 34.9	4.207	5.135	4.6	21.3	10 8	23 21.28	- 7 4.5	0.980	1.925	13.5	17.5
10 18	23 22.26	- 3 52.0	4.280	5.129	6.4	21.4	10 18	23 17.75	- 7 37.0	1.027	1.916	18.5	17.7
<b>312468</b>	2008 <i>SY</i> <sub>61</sub>		9 16.3 309°99	0°8/14.7 17			<b>433285</b>	2013 <i>BP</i> <sub>10</sub>		9 16.3 235°93	1°8/12.4 16		
8 9	23 51.74	- 4 32.7	4.105	4.927	7.6	21.1	8 9	23 51.78	- 10 45.1	4.511	5.345	6.7	21.8
8 19	23 48.82	- 5 6.2	4.017	4.924	5.8	20.9	8 19	23 48.78	- 11 22.2	4.429	5.343	5.1	21.7
8 29	23 45.00	- 5 44.5	3.953	4.920	3.8	20.8	8 29	23 44.95	- 12 1.5	4.372	5.340	3.4	21.6
9 8	23 40.55	- 6 25.4	3.918	4.917	1.7	20.6	9 8	23 40.54	- 12 40.4	4.344	5.337	2.0	21.5
9 18	23 35.79	- 7 6.4	3.912	4.913	1.1	20.6	9 18	23 35.84	- 13 16.6	4.346	5.334	2.2	21.5
9 28	23 31.09	- 7 44.6	3.937	4.910	3.1	20.7	9 28	23 31.21	- 13 47.6	4.377	5.331	3.6	21.6
10 8	23 26.82	- 8 17.7	3.990	4.907	5.1	20.9	10 8	23 26.98	- 14 11.7	4.437	5.329	5.3	21.7
10 18	23 23.30	- 8 43.8	4.070	4.904	7.0	21.0	10 18	23 23.44	- 14 27.6	4.523	5.326	6.9	21.8
<b>397330</b>	2006 <i>TZ</i> <sub>32</sub>		9 16.3 331°97	4°6/12.5 18									

EPHEMERIDES

9 16.3

9 16.4

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>190669</b>	2000 <i>YJ</i> <sub>117</sub>		9 16.3 265°15	3°8/ 7.6	18		<b>77782</b>	2001 <i>QP</i> <sub>35</sub>		9 16.4 202°00	4°0/20.5	18	
8 9	23 52.20	-21 46.9	4.419	5.261	6.7	19.5	8 9	0 2.98	+10 38.1	2.277	3.039	14.6	19.6
8 19	23 49.17	-22 43.3	4.351	5.258	5.4	19.4	8 19	23 58.41	+11 0.6	2.183	3.037	12.1	19.4
8 29	23 45.24	-23 37.9	4.310	5.255	4.3	19.4	8 29	23 51.91	+11 7.3	2.109	3.034	9.2	19.2
9 8	23 40.68	-24 27.6	4.297	5.253	3.8	19.3	9 8	23 43.95	+10 58.2	2.060	3.031	6.2	19.1
9 18	23 35.82	-25 9.5	4.312	5.250	4.3	19.4	9 18	23 35.21	+10 34.4	2.038	3.027	4.2	18.9
9 28	23 31.02	-25 41.1	4.355	5.247	5.5	19.4	9 28	23 26.54	+ 9 59.3	2.045	3.023	5.0	19.0
10 8	23 26.66	-26 1.0	4.424	5.244	6.8	19.5	10 8	23 18.78	+ 9 17.9	2.079	3.019	7.7	19.1
10 18	23 23.05	-26 8.8	4.517	5.241	8.1	19.6	10 18	23 12.64	+ 8 35.6	2.139	3.015	10.8	19.3
<b>469888</b>	2005 <i>UE</i> <sub>507</sub>		9 16.3 343°97	2°6/14.5	18		<b>277210</b>	2005 <i>QC</i> <sub>117</sub>		9 16.4 21°87	0°6/16.7	15	
8 9	23 56.04	- 4 53.1	1.140	2.020	19.1	20.4	8 9	0 1.85	- 1 24.6	0.991	1.863	21.9	20.2
8 19	23 54.58	- 5 27.0	1.070	2.008	14.9	20.1	8 19	23 59.12	- 1 1.4	0.944	1.875	17.2	19.9
8 29	23 50.13	- 6 16.8	1.018	1.998	9.9	19.8	8 29	23 53.06	- 0 55.2	0.914	1.888	11.7	19.7
9 8	23 43.34	- 7 15.7	0.987	1.988	4.7	19.5	9 8	23 44.60	- 1 2.3	0.904	1.903	5.6	19.4
9 18	23 35.27	- 8 14.3	0.979	1.980	3.3	19.4	9 18	23 35.11	- 1 17.0	0.916	1.920	1.0	19.2
9 28	23 27.40	- 9 2.3	0.993	1.974	8.5	19.6	9 28	23 26.28	- 1 31.8	0.950	1.938	6.9	19.6
10 8	23 21.19	- 9 31.3	1.029	1.968	13.8	19.9	10 8	23 19.56	- 1 39.8	1.006	1.958	12.4	20.0
10 18	23 17.64	- 9 37.3	1.084	1.964	18.4	20.2	10 18	23 15.82	- 1 36.4	1.082	1.978	17.1	20.4
<b>492334</b>	2014 <i>EQ</i> <sub>5</sub>		9 16.3 298°69	0°3/16.8	18		<b>262559</b>	2006 <i>VZ</i> <sub>26</sub>		9 16.4 152°85	1°5/14.9	17	
8 9	23 54.32	- 0 18.2	4.210	5.010	7.8	21.1	8 9	0 4.54	- 3 47.3	1.845	2.677	15.0	21.6
8 19	23 50.77	- 0 23.3	4.114	5.005	6.1	20.9	8 19	23 59.84	- 4 25.5	1.773	2.684	11.6	21.4
8 29	23 46.30	- 0 33.8	4.043	5.000	4.1	20.8	8 29	23 52.93	- 5 14.8	1.723	2.690	7.7	21.2
9 8	23 41.18	- 0 48.4	4.000	4.995	2.0	20.6	9 8	23 44.42	- 6 10.1	1.697	2.696	3.5	20.9
9 18	23 35.74	- 1 5.4	3.986	4.991	0.4	20.5	9 18	23 35.14	- 7 5.4	1.700	2.702	2.1	20.9
9 28	23 30.35	- 1 22.6	4.003	4.986	2.5	20.7	9 28	23 26.13	- 7 53.8	1.731	2.707	6.0	21.1
10 8	23 25.39	- 1 38.1	4.049	4.981	4.6	20.8	10 8	23 18.36	- 8 30.2	1.788	2.711	10.0	21.4
10 18	23 21.19	- 1 49.9	4.123	4.976	6.5	21.0	10 18	23 12.55	- 8 51.4	1.869	2.715	13.4	21.6
<b>291546</b>	2006 <i>EO</i> <sub>54</sub>		9 16.3 306°69	3°2/18.9	17		<b>287602</b>	2003 <i>GS</i> <sub>5</sub>		9 16.4 106°59	1°2/15.5	17	
8 9	0 2.80	+ 5 45.0	2.039	2.834	15.1	20.9	8 9	0 7.39	- 2 48.0	1.424	2.265	18.1	21.0
8 19	23 58.65	+ 6 19.1	1.933	2.812	12.3	20.7	8 19	0 2.56	- 3 13.8	1.364	2.279	14.1	20.8
8 29	23 52.32	+ 6 40.5	1.847	2.790	9.1	20.5	8 29	23 54.97	- 3 53.3	1.323	2.292	9.4	20.5
9 8	23 44.24	+ 6 49.2	1.785	2.768	5.6	20.2	9 8	23 45.40	- 4 41.1	1.307	2.306	4.2	20.3
9 18	23 35.10	+ 6 45.9	1.749	2.747	3.2	20.0	9 18	23 34.96	- 5 30.1	1.316	2.319	1.8	20.1
9 28	23 25.87	+ 6 33.7	1.742	2.725	5.1	20.1	9 28	23 24.99	- 6 12.5	1.351	2.332	6.7	20.5
10 8	23 17.55	+ 6 16.8	1.762	2.704	8.7	20.3	10 8	23 16.71	- 6 42.1	1.412	2.344	11.4	20.8
10 18	23 10.99	+ 6 0.3	1.806	2.684	12.3	20.5	10 18	23 10.95	- 6 55.6	1.495	2.356	15.4	21.1
<b>358159</b>	2006 <i>RX</i> <sub>85</sub>		9 16.3 286°41	1°1/17.7	18		<b>231516</b>	2008 <i>RK</i> <sub>124</sub>		9 16.4 253°35	0°1/16.5	18	
8 9	23 56.43	+ 5 20.8	1.981	2.792	14.9	21.0	8 9	23 52.17	- 0 43.0	4.592	5.395	7.1	20.7
8 19	23 53.61	+ 4 36.9	1.885	2.779	11.9	20.8	8 19	23 49.07	- 0 59.6	4.497	5.390	5.5	20.6
8 29	23 48.83	+ 3 33.8	1.811	2.767	8.3	20.6	8 29	23 45.15	- 1 21.5	4.426	5.385	3.7	20.4
9 8	23 42.55	+ 2 14.3	1.762	2.755	4.4	20.3	9 8	23 40.66	- 1 47.0	4.384	5.380	1.7	20.3
9 18	23 35.45	+ 0 43.8	1.739	2.743	1.2	20.1	9 18	23 35.89	- 2 14.5	4.371	5.376	0.3	20.1
9 28	23 28.41	- 0 50.0	1.745	2.731	4.7	20.3	9 28	23 31.16	- 2 41.6	4.389	5.371	2.4	20.3
10 8	23 22.30	- 2 19.1	1.778	2.719	8.8	20.5	10 8	23 26.81	- 3 6.5	4.436	5.366	4.3	20.5
10 18	23 17.85	- 3 36.4	1.836	2.707	12.5	20.7	10 18	23 23.13	- 3 27.3	4.511	5.361	6.1	20.6
<b>428679</b>	2008 <i>HQ</i> <sub>55</sub>		9 16.3 76°44	2°7/14.1	17		<b>250832</b>	2005 <i>UE</i> <sub>121</sub>		9 16.4 40°10	0°1/16.4	18	
8 9	0 5.16	- 6 2.3	1.504	2.353	16.9	21.6	8 9	23 59.64	- 0 8.8	1.788	2.620	15.4	20.1
8 19	0 0.51	- 6 51.0	1.456	2.377	13.0	21.5	8 19	23 56.05	- 0 27.5	1.723	2.632	12.0	19.9
8 29	23 53.39	- 7 49.8	1.428	2.400	8.5	21.3	8 29	23 50.37	- 0 59.5	1.679	2.644	8.1	19.7
9 8	23 44.56	- 8 51.5	1.425	2.424	4.1	21.1	9 8	23 43.22	- 1 40.9	1.659	2.657	3.8	19.5
9 18	23 35.09	- 9 48.3	1.448	2.447	3.3	21.1	9 18	23 35.40	- 2 26.5	1.666	2.671	0.7	19.3
9 28	23 26.17	-10 32.7	1.497	2.470	7.2	21.4	9 28	23 27.88	- 3 10.3	1.700	2.684	5.1	19.6
10 8	23 18.86	-11 0.1	1.572	2.492	11.3	21.7	10 8	23 21.56	- 3 46.7	1.761	2.698	9.1	19.9
10 18	23 13.84	-11 8.8	1.669	2.514	14.8	21.9	10 18	23 17.09	- 4 11.7	1.845	2.713	12.6	20.1
<b>177652</b>	2004 <i>XW</i> <sub>130</sub>		9 16.3 155°95	0°6/16.1	17		<b>66365</b>	1999 <i>JV</i> <sub>92</sub>		9 16.4 32°36	2°3/14.5	18	
8 9	0 20.80	- 6 15.1	1.211	2.048	20.9	19.9	8 9	23 55.07	- 0 17.2	0.977	1.857	21.5	18.2
8 19	0 13.82	- 5 30.2	1.140	2.051	16.6	19.6	8 19	23 53.83	- 1 45.0	0.934	1.872	16.5	18.0
8 29	0 3.05	- 4 51.2	1.087	2.053	11.3	19.3	8 29	23 49.50	- 3 37.3	0.909	1.889	10.8	17.8
9 8	23 49.32	- 4 15.3	1.057	2.056	5.2	19.0	9 8	23 42.95	- 5 42.6	0.905	1.907	4.8	17.5
9 18	23 34.13	- 3 39.5	1.053	2.058	1.3	18.8	9 18	23 35.47	- 7 45.9	0.924	1.926	3.2	17.5
9 28	23 19.44	- 3 0.8	1.077	2.059	7.5	19.2	9 28	23 28.58	- 9 31.9	0.965	1.946	8.6	17.9
10 8	23 7.07	- 2 17.1	1.125	2.061	13.2	19.5	10 8	23 23.60	-10 50.0	1.028	1.967	13.9	18.2
10 18	22 58.19	- 1 27.2	1.195	2.062	18.0	19.8	10 18	23 21.31	-11 36.1	1.111	1.988	18.3	18.6
<b>363288</b>	2002 <i>HA</i> <sub>17</sub>		9 16.3 138°71	1°0/17.6	18		<b>371921</b>	2008 <i>EZ</i>		9 16.4 239°39	0°1/16.4	17	
8 9	23 57.27	+ 4 24.2	2.444	3.244	12.7	21.4	8 9	0 2.73	+ 1 1.8	1.798	2.620	15.7	22.1
8 19	23 53.73	+ 3 48.3	2.361	3.249	10.1	21.3	8 19	23 58.78	+ 0 29.0	1.704	2.607	12.4	21.9
8 29	23 48.60	+ 2 58.4	2.300	3.254	7.0	21.1	8 29	23 52.48	- 0 20.3	1.630	2.593	8.5	21.6
9 8	23 42.34	+ 1 57.3	2.265	3.258	3.6	20.9	9 8	23 44.34	- 1 22.7	1.581	2.579	4.0	21.3
9 18	23 35.53	+ 0 49.3	2.259	3.263	1.0	20.7	9 18	23 35.16	- 2 32.4	1.559	2.564	0.8	21.0
9 28	23 28.85	- 0 20.2	2.282	3.267	3.8	20.9	9 28	23 26.00	- 3 41.9	1.565	2.548	5.6	21.4
10 8	23 23.00	- 1 25.8	2.333	3.271	7.2	21.1	10 8	23 17.95	- 4 43.5	1.598	2.532	10.1	21.6
10 18	23 18.51	- 2 22.8	2.411	3.275	10.1	21.3	10 18	23 11.88	- 5 31.4	1.654	2.515	14.1	21.8
<b>317749</b>	2003												

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>112182</b>	2002 <i>JV</i> <sub>98</sub>		9 16.4 162°60	4°2/12.9	18		<b>368526</b>	2003 <i>WE</i> <sub>43</sub>		9 16.4 11°10	3°8/18.4	16	
8 9	0 5.95	-10 1.1	1.621	2.472	15.8	20.2	8 9	0 1.62	+ 2 33.8	0.942	1.808	23.3	20.1
8 19	0 1.29	-10 55.2	1.554	2.475	12.2	20.0	8 19	23 59.35	+ 3 36.3	0.888	1.811	18.8	19.8
8 29	23 54.09	-11 56.6	1.508	2.479	8.3	19.7	8 29	23 53.54	+ 4 19.1	0.849	1.816	13.5	19.5
9 8	23 45.02	-12 57.8	1.487	2.482	4.8	19.5	9 8	23 45.01	+ 4 41.9	0.828	1.822	7.8	19.2
9 18	23 35.07	-13 50.6	1.493	2.484	4.9	19.6	9 18	23 35.13	+ 4 46.7	0.828	1.830	3.8	19.1
9 28	23 25.45	-14 28.0	1.525	2.486	8.3	19.8	9 28	23 25.73	+ 4 39.4	0.850	1.840	7.3	19.3
10 8	23 17.28	-14 45.4	1.582	2.488	12.2	20.0	10 8	23 18.48	+ 4 28.2	0.893	1.851	12.7	19.6
10 18	23 11.39	-14 41.9	1.661	2.489	15.7	20.2	10 18	23 14.44	+ 4 20.8	0.955	1.864	17.6	20.0
<b>178306</b>	1994 <i>PT</i> <sub>25</sub>		9 16.4 28°19	2°5/14.5	18		<b>62887</b>	2000 <i>UX</i> <sub>95</sub>		9 16.4 115°67	3°7/20.7	18	R
8 9	23 58.84	- 4 1.8	1.118	1.992	19.8	19.5	8 9	23 59.55	+11 20.0	2.334	3.098	14.2	19.4
8 19	23 56.50	- 4 48.5	1.068	2.003	15.2	19.3	8 19	23 55.63	+11 22.2	2.251	3.106	11.8	19.2
8 29	23 51.20	- 5 51.3	1.037	2.015	10.0	19.0	8 29	23 49.97	+11 7.4	2.188	3.113	8.9	19.1
9 8	23 43.74	- 7 1.9	1.027	2.028	4.6	18.8	9 8	23 43.06	+10 36.3	2.150	3.121	5.9	18.9
9 18	23 35.35	- 8 10.1	1.041	2.042	3.2	18.8	9 18	23 35.52	+ 9 51.3	2.138	3.128	3.8	18.8
9 28	23 27.49	- 9 5.4	1.078	2.057	8.1	19.1	9 28	23 28.13	+ 8 56.5	2.154	3.135	4.5	18.8
10 8	23 21.45	- 9 40.7	1.137	2.073	13.1	19.4	10 8	23 21.65	+ 7 57.7	2.199	3.142	7.2	19.0
10 18	23 18.05	- 9 53.0	1.216	2.090	17.3	19.7	10 18	23 16.66	+ 7 0.4	2.270	3.149	10.1	19.2
<b>509289</b>	2006 <i>VO</i> <sub>54</sub>		9 16.4 289°61	2°1/14.7	18		<b>168362</b>	1996 <i>RV</i> <sub>28</sub>		9 16.4 321°72	1°1/18.6	16	
8 9	0 1.59	- 4 19.4	1.475	2.328	17.0	22.5	8 9	23 52.05	+ 4 59.6	4.164	4.945	8.2	19.7
8 19	23 58.42	- 4 55.5	1.388	2.310	13.3	22.2	8 19	23 49.11	+ 4 46.3	4.066	4.941	6.5	19.6
8 29	23 52.55	- 5 45.9	1.320	2.293	8.9	21.9	8 29	23 45.26	+ 4 25.1	3.992	4.936	4.6	19.5
9 8	23 44.49	- 6 45.3	1.275	2.275	4.2	21.6	9 8	23 40.78	+ 3 57.4	3.945	4.932	2.6	19.3
9 18	23 35.18	- 7 46.0	1.256	2.257	2.7	21.5	9 18	23 35.98	+ 3 24.9	3.926	4.928	1.1	19.2
9 28	23 25.89	- 8 39.2	1.262	2.240	7.5	21.7	9 28	23 31.22	+ 2 49.9	3.938	4.923	2.4	19.3
10 8	23 17.93	- 9 17.1	1.293	2.222	12.4	21.9	10 8	23 26.88	+ 2 15.0	3.980	4.919	4.4	19.4
10 18	23 12.32	- 9 35.4	1.344	2.205	16.8	22.2	10 18	23 23.27	+ 1 42.7	4.049	4.915	6.3	19.6
<b>424636</b>	2008 <i>LA</i> <sub>3</sub>		9 16.4 154°72	0°6/16.9	17		<b>193465</b>	2000 <i>XJ</i> <sub>13</sub>		9 16.4 197°36	1°9/14.3	18	
8 9	0 0.90	+ 3 4.5	1.701	2.523	16.5	21.6	8 9	0 2.25	- 5 40.4	2.264	3.093	12.7	20.6
8 19	23 57.28	+ 2 25.0	1.624	2.526	13.0	21.4	8 19	23 57.77	- 6 23.8	2.180	3.090	9.8	20.4
8 29	23 51.39	+ 1 26.8	1.568	2.529	8.9	21.2	8 29	23 51.45	- 7 15.8	2.119	3.087	6.5	20.2
9 8	23 43.79	+ 0 13.9	1.536	2.532	4.4	20.9	9 8	23 43.77	- 8 11.6	2.085	3.083	3.1	20.0
9 18	23 35.34	- 1 7.1	1.530	2.535	0.8	20.7	9 18	23 35.39	- 9 6.1	2.079	3.078	2.4	19.9
9 28	23 27.10	- 2 28.0	1.552	2.537	5.3	21.0	9 28	23 27.14	- 9 53.5	2.102	3.073	5.6	20.1
10 8	23 20.10	- 3 40.6	1.600	2.539	9.8	21.3	10 8	23 19.84	-10 29.5	2.153	3.067	9.0	20.3
10 18	23 15.10	- 4 38.8	1.672	2.540	13.6	21.5	10 18	23 14.11	-10 51.3	2.229	3.061	12.0	20.5
<b>208289</b>	2001 <i>CC</i> <sub>40</sub>		9 16.4 141°91	4°4/11.5	18		<b>492235</b>	2013 <i>TA</i> <sub>89</sub>		9 16.4 316°90	0°8/16.9	18	
8 9	0 1.76	-12 10.2	2.071	2.919	13.0	20.5	8 9	0 0.29	+ 0 19.3	1.277	2.129	19.2	21.0
8 19	23 57.48	-13 20.1	2.007	2.927	10.0	20.3	8 19	23 57.87	+ 0 23.9	1.189	2.109	15.4	20.7
8 29	23 51.25	-14 34.4	1.966	2.934	6.9	20.1	8 29	23 52.45	+ 0 11.2	1.120	2.089	10.7	20.4
9 8	23 43.64	-15 46.2	1.952	2.941	4.6	20.0	9 8	23 44.57	- 0 16.4	1.072	2.070	5.3	20.1
9 18	23 35.38	-16 48.7	1.966	2.948	5.1	20.0	9 18	23 35.20	- 0 54.0	1.047	2.051	1.0	19.7
9 28	23 27.38	-17 35.9	2.007	2.954	7.7	20.2	9 28	23 25.78	- 1 33.9	1.046	2.034	6.7	20.0
10 8	23 20.48	-18 4.2	2.074	2.960	10.7	20.4	10 8	23 17.82	- 2 7.7	1.068	2.017	12.3	20.3
10 18	23 15.31	-18 12.7	2.164	2.965	13.4	20.6	10 18	23 12.50	- 2 28.5	1.111	2.000	17.3	20.5
<b>290009</b>	2005 <i>QV</i> <sub>1</sub>		9 16.4 77°19	1°4/17.6	17		<b>263238</b>	2008 <i>AZ</i> <sub>79</sub>		9 16.4 150°23	1°0/17.3	17	
8 9	0 3.72	+ 3 53.9	1.491	2.314	18.3	20.7	8 9	0 4.14	+ 2 45.4	1.706	2.522	16.7	21.6
8 19	23 59.57	+ 3 35.9	1.432	2.333	14.5	20.5	8 19	23 59.78	+ 2 26.7	1.630	2.528	13.2	21.3
8 29	23 52.90	+ 2 58.6	1.393	2.352	10.0	20.3	8 29	23 53.06	+ 1 51.1	1.575	2.534	9.1	21.1
9 8	23 44.45	+ 2 5.7	1.377	2.371	5.2	20.1	9 8	23 44.58	+ 1 1.9	1.544	2.539	4.6	20.9
9 18	23 35.23	+ 1 3.3	1.386	2.390	1.5	19.9	9 18	23 35.23	+ 0 4.3	1.540	2.544	1.1	20.6
9 28	23 26.46	- 0 0.6	1.422	2.409	5.4	20.2	9 28	23 26.13	- 0 54.7	1.563	2.548	5.2	20.9
10 8	23 19.22	- 0 57.9	1.484	2.428	9.9	20.5	10 8	23 18.34	- 1 47.9	1.612	2.552	9.6	21.2
10 18	23 14.27	- 1 42.9	1.569	2.446	13.9	20.8	10 18	23 12.63	- 2 29.8	1.686	2.555	13.5	21.5
<b>353185</b>	2009 <i>RT</i> <sub>64</sub>		9 16.4 346°90	1°9/13.2	17		<b>401273</b>	2012 <i>CY</i> <sub>14</sub>		9 16.4 40°94	2°8/19.2	18	
8 9	23 53.68	- 9 54.4	3.751	4.585	8.0	19.6	8 9	0 1.18	+ 6 34.3	2.197	2.986	14.3	21.1
8 19	23 50.43	-10 21.5	3.668	4.582	6.1	19.5	8 19	23 57.00	+ 6 50.3	2.113	2.989	11.6	20.9
8 29	23 46.16	-10 51.2	3.611	4.579	4.0	19.4	8 29	23 50.96	+ 6 52.4	2.050	2.992	8.4	20.7
9 8	23 41.19	-11 20.8	3.581	4.576	2.2	19.2	9 8	23 43.55	+ 6 41.2	2.012	2.995	5.1	20.5
9 18	23 35.87	-11 47.8	3.580	4.573	2.2	19.2	9 18	23 35.44	+ 6 19.1	2.001	2.999	2.8	20.4
9 28	23 30.63	-12 9.5	3.609	4.571	4.0	19.4	9 28	23 27.47	+ 5 49.7	2.018	3.002	4.4	20.5
10 8	23 25.90	-12 23.7	3.666	4.568	6.0	19.5	10 8	23 20.46	+ 5 17.9	2.063	3.006	7.6	20.7
10 18	23 22.02	-12 29.2	3.749	4.566	7.9	19.6	10 18	23 15.05	+ 4 48.3	2.133	3.010	10.7	20.9
<b>196300</b>	2003 <i>FW</i> <sub>3</sub>		9 16.4 55°60	7°4/13.2	16		<b>72669</b>	2001 <i>FF</i> <sub>52</sub>		9 16.4 172°01	0°9/15.5	18	
8 9	0 24.47	-21 26.7	1.377	2.215	18.8	19.8	8 9	0 3.46	- 4 56.2	2.536	3.354	11.8	19.5
8 19	0 15.21	-21 31.0	1.345	2.252	14.9	19.6	8 19	23 58.44	- 5 0.7	2.452	3.355	9.1	19.3
8 29	0 2.91	-21 26.9	1.334	2.288	10.9	19.5	8 29	23 51.75	- 5 11.2	2.392	3.356	6.1	19.1
9 8	23 48.81	-21 6.7	1.347	2.325	7.9	19.4	9 8	23 43.86	- 5 24.9	2.359	3.357	2.8	18.9
9 18	23 34.47	-20 25.8	1.388	2.362	7.8	19.5	9 18	23 35.39	- 5 38.8	2.355	3.358	1.2	18.8
9 28	23 21.51	-19 23.7	1.455	2.398	10.4	19.8	9 28	23 27.07	- 5 49.4	2.381	3.358	4.4	19.0
10 8	23 11.10	-18 3.9	1.548	2.434	13.6	20.1	10 8	23 19.64	- 5 53.8	2.435	3.359	7.6	19.2
10 18	23 3.86	-16 31.4	1.663	2.470	16.6	20.4	10 18	23 13.65	- 5 50.1	2.515	3.359	10.5	19.4
<b>364483</b>	2007 <i>DE</i> <sub>65</sub>		9 16.4 29°69	3°2/18.8	18		<b>263106</b>	2007 <i>TY</i> <sub>338</sub>					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>285462</b>	1999 YX <sub>1</sub>	9 16.4 199° 97'		6° 2'/25.9 18			<b>517622</b>	2014 YW <sub>7</sub>	9 16.4 304° 63'		5° 4'/19.7 17		
8 9	23 58.09	+23 32.6	2.875	3.545	13.7	21.0	8 9	0 3.77	+8 1.5	1.294	2.112	20.9	21.2
8 19	23 54.35	+23 41.1	2.773	3.542	12.0	20.9	8 19	0 0.65	+8 51.8	1.207	2.097	17.4	20.9
8 29	23 49.07	+23 30.0	2.689	3.539	10.1	20.7	8 29	23 54.40	+9 22.0	1.137	2.083	13.2	20.6
9 8	23 42.65	+22 58.3	2.627	3.535	8.2	20.6	9 8	23 45.53	+9 29.8	1.087	2.069	8.7	20.4
9 18	23 35.62	+22 6.4	2.590	3.531	6.7	20.5	9 18	23 35.05	+9 15.4	1.060	2.055	5.5	20.1
9 28	23 28.65	+20 56.9	2.580	3.527	6.2	20.5	9 28	23 24.49	+8 43.2	1.057	2.041	7.3	20.2
10 8	23 22.40	+19 34.8	2.598	3.522	7.2	20.5	10 8	23 15.45	+8 1.4	1.077	2.028	11.9	20.4
10 18	23 17.43	+18 6.0	2.644	3.517	9.0	20.6	10 18	23 9.16	+7 19.2	1.118	2.015	16.6	20.7
<b>78783</b>	2002 VH <sub>76</sub>	9 16.4 217° 17'		5° 8'/9.6 18			<b>86675</b>	2000 FP <sub>25</sub>	9 16.4 248° 26'		2° 7'/13.9 18		
8 9	0 2.47	-18 33.9	2.323	3.170	11.8	20.0	8 9	0 3.23	-6 27.2	1.731	2.576	15.3	20.0
8 19	23 57.98	-19 40.1	2.250	3.164	9.4	19.8	8 19	23 59.24	-7 11.8	1.646	2.565	11.9	19.7
8 29	23 51.59	-20 46.1	2.201	3.157	7.1	19.6	8 29	23 52.83	-8 7.1	1.582	2.553	7.9	19.5
9 8	23 43.84	-21 45.4	2.178	3.150	5.8	19.5	9 8	23 44.56	-9 7.4	1.543	2.542	3.9	19.2
9 18	23 35.39	-22 31.7	2.182	3.143	6.5	19.6	9 18	23 35.28	-10 5.4	1.531	2.529	3.3	19.2
9 28	23 27.12	-23 0.1	2.214	3.135	8.6	19.7	9 28	23 26.10	-10 53.7	1.546	2.517	7.2	19.4
10 8	23 19.83	-23 8.3	2.271	3.126	11.1	19.8	10 8	23 18.12	-11 26.3	1.586	2.504	11.4	19.6
10 18	23 14.17	-22 56.1	2.350	3.118	13.5	20.0	10 18	23 12.22	-11 40.2	1.649	2.491	15.1	19.8
<b>319057</b>	2005 WT <sub>13</sub>	9 16.4 305° 00'		1° 8'/14.5 18			<b>93149</b>	2000 SM <sub>80</sub>	9 16.4 1° 16'		1° 9'/14.8 18		
8 9	23 59.21	-5 24.0	2.073	2.913	13.3	21.1	8 9	23 56.15	-2 55.6	1.243	2.112	18.5	19.3
8 19	23 55.62	-5 57.9	1.990	2.906	10.3	20.9	8 19	23 54.35	-3 39.7	1.178	2.110	14.4	19.1
8 29	23 50.12	-6 40.8	1.928	2.898	6.8	20.6	8 29	23 49.82	-4 41.2	1.132	2.109	9.5	18.8
9 8	23 43.19	-7 28.3	1.892	2.891	3.2	20.4	9 8	23 43.21	-5 53.1	1.108	2.109	4.3	18.5
9 18	23 35.52	-8 15.0	1.884	2.884	2.3	20.3	9 18	23 35.56	-7 6.3	1.108	2.110	2.6	18.4
9 28	23 27.98	-8 55.2	1.903	2.877	5.7	20.6	9 28	23 28.19	-8 10.3	1.131	2.112	7.6	18.7
10 8	23 21.40	-9 24.4	1.949	2.871	9.4	20.8	10 8	23 22.37	-8 56.7	1.178	2.116	12.5	19.0
10 18	23 16.47	-9 39.5	2.019	2.864	12.6	21.0	10 18	23 18.98	-9 21.0	1.245	2.120	16.9	19.3
<b>4164</b>	Shilov	9 16.4 292° 19'		5° 4'/22.0 18			<b>507219</b>	2010 VS <sub>206</sub>	9 16.4 16° 89'		5° 1'/20.3 17		
8 9	23 57.16	+15 6.3	1.822	2.589	17.6	16.5	8 9	23 57.82	+9 55.6	1.108	1.942	22.7	20.6
8 19	23 54.54	+15 4.2	1.720	2.573	14.9	16.3	8 19	23 56.00	+10 16.1	1.047	1.946	18.7	20.4
8 29	23 49.71	+14 36.8	1.637	2.556	11.7	16.0	8 29	23 51.12	+10 7.2	1.001	1.951	14.0	20.2
9 8	23 43.13	+13 43.3	1.576	2.540	8.3	15.8	9 8	23 43.87	+9 29.0	0.973	1.957	9.1	19.9
9 18	23 35.51	+12 25.4	1.539	2.524	5.7	15.6	9 18	23 35.43	+8 25.5	0.967	1.964	5.3	19.7
9 28	23 27.88	+10 49.0	1.528	2.508	6.1	15.6	9 28	23 27.33	+7 6.2	0.984	1.972	6.9	19.9
10 8	23 21.28	+9 3.3	1.544	2.492	9.2	15.7	10 8	23 21.00	+5 43.6	1.024	1.981	11.5	20.1
10 18	23 16.55	+7 18.4	1.584	2.477	12.8	15.9	10 18	23 17.43	+4 29.2	1.084	1.991	16.1	20.4
<b>21803</b>	1999 TC <sub>7</sub>	9 16.4 152° 24'		3° 4'/13.7 18			<b>345409</b>	2006 CO <sub>20</sub>	9 16.4 248° 61'		4° 2'/19.6 18		
8 9	0 6.72	-8 51.4	1.604	2.452	16.1	17.6	8 9	0 6.74	+7 47.8	1.832	2.617	16.8	21.2
8 19	0 1.92	-9 27.5	1.536	2.456	12.5	17.4	8 19	0 1.89	+8 30.1	1.741	2.612	13.9	21.0
8 29	23 54.55	-10 11.1	1.489	2.459	8.4	17.2	8 29	23 54.61	+8 57.1	1.670	2.606	10.4	20.8
9 8	23 45.29	-10 55.8	1.466	2.463	4.4	17.0	9 8	23 45.40	+9 7.9	1.622	2.600	6.8	20.5
9 18	23 35.13	-11 34.3	1.470	2.466	4.0	17.0	9 18	23 35.13	+9 3.1	1.601	2.594	4.3	20.4
9 28	23 25.31	-12 0.2	1.500	2.468	7.7	17.2	9 28	23 24.90	+8 46.0	1.607	2.588	5.7	20.5
10 8	23 16.97	-12 9.2	1.556	2.471	11.8	17.4	10 8	23 15.85	+8 22.0	1.640	2.582	9.3	20.7
10 18	23 10.93	-12 0.0	1.634	2.473	15.4	17.7	10 18	23 8.88	+7 56.8	1.698	2.576	12.9	20.9
<b>270002</b>	2001 AT <sub>8</sub>	9 16.4 254° 53'		2° 9'/19.9 18			<b>449385</b>	2013 GQ <sub>105</sub>	9 16.4 145° 63'		0° 2'/16.2 18		
8 9	23 59.03	+9 28.4	2.614	3.381	12.8	21.0	8 9	0 4.55	-2 24.0	2.509	3.318	12.2	21.5
8 19	23 55.20	+9 24.4	2.504	3.364	10.5	20.8	8 19	23 59.27	-2 25.9	2.428	3.325	9.5	21.4
8 29	23 49.74	+9 5.7	2.416	3.347	7.9	20.6	8 29	23 52.31	-2 35.3	2.371	3.332	6.4	21.2
9 8	23 43.01	+8 32.7	2.352	3.329	5.0	20.4	9 8	23 44.14	-2 49.8	2.341	3.338	2.9	21.0
9 18	23 35.57	+7 47.6	2.316	3.311	3.0	20.2	9 18	23 35.40	-3 6.5	2.340	3.344	0.7	20.8
9 28	23 28.11	+6 54.0	2.310	3.292	4.1	20.3	9 28	23 26.85	-3 21.8	2.369	3.350	4.1	21.1
10 8	23 21.34	+5 56.9	2.331	3.273	6.9	20.4	10 8	23 19.22	-3 32.5	2.427	3.355	7.4	21.3
10 18	23 15.89	+5 1.6	2.380	3.254	9.9	20.6	10 18	23 13.06	-3 36.3	2.511	3.361	10.3	21.5
<b>154152</b>	2002 GX <sub>3</sub>	9 16.4 64° 71'		5° 4'/12.2 18 R			<b>296267</b>	2009 DY <sub>40</sub>	9 16.4 277° 04'		1° 5'/14.8 18		
8 9	0 12.98	-19 28.7	2.102	2.933	13.4	19.2	8 9	23 57.80	-1 52.8	1.878	2.717	14.5	20.8
8 19	0 5.79	-19 42.6	2.054	2.958	10.6	19.1	8 19	23 54.79	-2 53.7	1.792	2.707	11.3	20.5
8 29	23 56.54	-19 52.3	2.029	2.983	7.7	19.0	8 29	23 49.72	-4 9.7	1.727	2.697	7.5	20.3
9 8	23 45.99	-19 52.5	2.031	3.008	5.6	18.9	9 8	23 43.08	-5 35.3	1.688	2.687	3.4	20.0
9 18	23 35.04	-19 39.2	2.061	3.033	5.8	18.9	9 18	23 35.59	-7 3.6	1.676	2.678	2.0	19.9
9 28	23 24.71	-19 10.2	2.120	3.058	7.9	19.1	9 28	23 28.19	-8 26.2	1.691	2.668	6.1	20.1
10 8	23 15.86	-18 25.7	2.206	3.082	10.6	19.3	10 8	23 21.81	-9 35.7	1.733	2.658	10.1	20.4
10 18	23 9.06	-17 27.7	2.316	3.107	13.0	19.5	10 18	23 17.20	-10 27.2	1.799	2.648	13.7	20.6
<b>316005</b>	2009 EC <sub>21</sub>	9 16.4 222° 95'		3° 6'/13.3 18			<b>145365</b>	2005 MT <sub>35</sub>	9 16.4 355° 16'		3° 5'/12.8 18		
8 9	0 3.91	-7 13.3	1.537	2.389	16.5	20.9	8 9	23 58.41	-8 31.9	1.808	2.664	14.2	19.8
8 19	0 0.01	-8 15.8	1.460	2.383	12.8	20.7	8 19	23 55.25	-9 30.7	1.737	2.663	10.9	19.6
8 29	23 53.46	-9 30.4	1.404	2.377	8.5	20.4	8 29	23 49.99	-10 37.9	1.688	2.661	7.3	19.4
9 8	23 44.88	-10 49.6	1.373	2.370	4.5	20.2	9 8	23 43.17	-11 46.9	1.664	2.660	4.1	19.2
9 18	23 35.21	-12 4.2	1.367	2.363	4.4	20.1	9 18	23 35.59	-12 50.3	1.667	2.660	4.2	19.2
9 28	23 25.72	-13 4.8	1.388	2.355	8.4	20.4	9 28	23 28.21	-13 41.1	1.696	2.660	7.4	19.4
10 8	23 17.64	-13 44.9	1.434	2.347	12.7	20.6	10 8	23 21.97	-14 14.2	1.750	2.660	11.0	19.6
10 18	23 11.88	-14 1.8	1.501	2.338	16.6	20.8	10 18	23 17.57	-14 27.6	1.827	2.660	14.2	19.8
<b>480071</b>	2015 DC <sub>153</sub>	9 16.4 138° 45'		0° 6'/15.9 16			<b>335074</b>	2004 RT <sub>316</sub>	9 16.4 349° 82'		1° 6'/17.6 18		
8 9	0 5.68	-2 14.9	1.837	2.662	15.3								



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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>266823</b>	2009 <i>TJ</i> <sub>26</sub>		9 16.4 356°35	3°7/12.9	18		<b>509252</b>	2006 <i>UT</i> <sub>34</sub>		9 16.4 310°64	0°1/16.3	18	
8 9	23 57.83	- 9 51.3	1.704	2.566	14.6	19.8	8 9	23 59.05	+ 0 14.7	1.326	2.178	18.6	22.0
8 19	23 54.93	-10 33.2	1.634	2.563	11.3	19.6	8 19	23 56.74	- 0 7.6	1.241	2.161	14.8	21.7
8 29	23 49.83	-11 21.8	1.586	2.560	7.6	19.4	8 29	23 51.60	- 0 49.4	1.174	2.144	10.1	21.4
9 8	23 43.11	-12 10.8	1.561	2.557	4.3	19.2	9 8	23 44.18	- 1 47.0	1.129	2.128	4.8	21.0
9 18	23 35.60	-12 53.3	1.563	2.556	4.4	19.2	9 18	23 35.40	- 2 53.6	1.107	2.112	1.0	20.7
9 28	23 28.32	-13 22.8	1.590	2.556	7.6	19.4	9 28	23 26.64	- 3 59.6	1.111	2.096	6.8	21.0
10 8	23 22.23	-13 35.2	1.642	2.556	11.3	19.6	10 8	23 19.29	- 4 55.3	1.138	2.081	12.2	21.3
10 18	23 18.07	-13 28.9	1.716	2.557	14.6	19.8	10 18	23 14.43	- 5 33.8	1.185	2.067	17.0	21.5
<b>278122</b>	2007 <i>CG</i> <sub>19</sub>		9 16.4 53°61	4°3/19.9	18		<b>38909</b>	2000 <i>SQ</i> <sub>172</sub>		9 16.4 325°94	6°4/ 9.1	18	
8 9	0 2.53	+ 9 12.1	1.501	2.304	19.2	20.0	8 9	23 59.89	-18 59.9	2.078	2.935	12.6	17.6
8 19	23 58.91	+ 9 31.2	1.429	2.310	15.7	19.8	8 19	23 56.19	-20 12.7	2.013	2.932	10.0	17.4
8 29	23 52.69	+ 9 28.2	1.375	2.317	11.7	19.5	8 29	23 50.51	-21 25.0	1.971	2.928	7.6	17.3
9 8	23 44.51	+ 9 3.3	1.342	2.323	7.5	19.3	9 8	23 43.39	-22 29.3	1.954	2.925	6.4	17.2
9 18	23 35.33	+ 8 19.4	1.334	2.330	4.5	19.2	9 18	23 35.58	-23 18.8	1.964	2.922	7.2	17.2
9 28	23 26.41	+ 7 22.9	1.352	2.337	6.0	19.3	9 28	23 27.99	-23 48.0	2.000	2.920	9.4	17.4
10 8	23 18.93	+ 6 22.4	1.395	2.344	9.9	19.5	10 8	23 21.47	-23 54.7	2.060	2.917	12.0	17.5
10 18	23 13.75	+ 5 26.1	1.461	2.351	13.9	19.8	10 18	23 16.69	-23 39.1	2.141	2.915	14.4	17.7
<b>368084</b>	2012 <i>TL</i> <sub>226</sub>		9 16.4 196°46	2°7/13.6	18		<b>49014</b>	1998 <i>QQ</i> <sub>74</sub>		9 16.4 110°31	5°8/22.4	18	
8 9	0 2.14	- 7 19.5	2.128	2.965	13.1	22.0	8 9	0 0.50	+16 10.8	1.658	2.421	19.2	19.2
8 19	23 57.82	- 8 10.7	2.048	2.963	10.1	21.8	8 19	23 57.16	+16 8.4	1.580	2.429	16.2	19.0
8 29	23 51.57	- 9 9.8	1.991	2.960	6.7	21.6	8 29	23 51.43	+15 38.4	1.521	2.436	12.7	18.8
9 8	23 43.88	-10 11.7	1.960	2.957	3.5	21.4	9 8	23 43.91	+14 40.4	1.482	2.444	9.0	18.6
9 18	23 35.46	-11 10.3	1.957	2.953	3.2	21.3	9 18	23 35.48	+13 17.4	1.467	2.451	6.2	18.5
9 28	23 27.19	-11 59.4	1.983	2.949	6.3	21.5	9 28	23 27.29	+11 36.6	1.479	2.458	6.4	18.5
10 8	23 19.94	-12 34.5	2.036	2.944	9.7	21.7	10 8	23 20.40	+ 9 48.4	1.517	2.465	9.4	18.7
10 18	23 14.36	-12 53.2	2.113	2.939	12.8	21.9	10 18	23 15.61	+ 8 3.4	1.580	2.472	12.9	18.9
<b>476765</b>	2008 <i>UT</i> <sub>108</sub>		9 16.4 309°11	1°8/17.8	18		<b>472516</b>	2015 <i>CY</i> <sub>38</sub>		9 16.4 168°52	2°4/14.3	17	
8 9	0 1.52	+ 2 48.0	1.612	2.437	17.1	20.9	8 9	0 4.64	- 5 47.7	1.804	2.642	15.0	22.0
8 19	23 58.13	+ 2 56.2	1.522	2.424	13.7	20.6	8 19	0 0.06	- 6 32.6	1.731	2.646	11.6	21.8
8 29	23 52.23	+ 2 48.6	1.452	2.411	9.7	20.4	8 29	23 53.21	- 7 27.7	1.679	2.649	7.7	21.6
9 8	23 44.35	+ 2 26.6	1.405	2.399	5.2	20.1	9 8	23 44.69	- 8 27.1	1.653	2.651	3.7	21.4
9 18	23 35.35	+ 1 53.8	1.383	2.387	1.8	19.8	9 18	23 35.34	- 9 24.1	1.654	2.653	2.9	21.3
9 28	23 26.38	+ 1 15.9	1.388	2.375	5.5	20.0	9 28	23 26.24	-10 11.8	1.683	2.655	6.6	21.6
10 8	23 18.63	+ 0 39.9	1.417	2.363	10.1	20.3	10 8	23 18.40	-10 45.0	1.738	2.656	10.6	21.8
10 18	23 13.03	+ 0 11.6	1.470	2.352	14.3	20.5	10 18	23 12.56	-11 0.9	1.817	2.656	14.0	22.0
<b>78383</b>	Philmassey		9 16.4 305°42	0°2/16.6	18		<b>386444</b>	2008 <i>WG</i> <sub>92</sub>		9 16.4 227°07	0°7/17.1	18	
8 9	0 2.01	- 0 28.9	1.806	2.634	15.4	19.7	8 9	0 1.50	+ 1 47.6	1.901	2.719	15.1	21.5
8 19	23 58.12	- 0 35.2	1.722	2.628	12.2	19.5	8 19	23 57.61	+ 1 30.5	1.816	2.716	12.0	21.3
8 29	23 51.99	- 0 54.1	1.658	2.622	8.3	19.3	8 29	23 51.58	+ 0 58.8	1.752	2.712	8.3	21.1
9 8	23 44.15	- 1 22.6	1.619	2.617	3.9	19.0	9 8	23 43.95	+ 0 15.4	1.712	2.708	4.1	20.8
9 18	23 35.40	- 1 56.4	1.606	2.611	0.7	18.7	9 18	23 35.48	- 0 35.3	1.699	2.704	0.8	20.5
9 28	23 26.79	- 2 29.9	1.621	2.606	5.2	19.1	9 28	23 27.13	- 1 27.1	1.714	2.699	4.9	20.8
10 8	23 19.33	- 2 57.7	1.662	2.600	9.5	19.3	10 8	23 19.86	- 2 13.7	1.756	2.695	9.0	21.1
10 18	23 13.80	- 3 15.4	1.727	2.595	13.3	19.5	10 18	23 14.42	- 2 50.3	1.823	2.690	12.7	21.3
<b>394265</b>	2006 <i>UY</i> <sub>111</sub>		9 16.4 15°48	2°2/18.7	18		<b>163877</b>	2003 <i>SF</i> <sub>163</sub>		9 16.4 337°15	0°6/15.9	18	
8 9	23 58.18	+ 6 37.9	1.848	2.654	15.9	20.5	8 9	23 55.57	- 0 26.0	1.384	2.241	17.7	20.0
8 19	23 55.05	+ 6 20.9	1.767	2.655	12.8	20.3	8 19	23 53.79	- 0 59.0	1.304	2.228	13.9	19.7
8 29	23 49.86	+ 5 45.0	1.706	2.657	9.2	20.1	8 29	23 49.45	- 1 50.6	1.243	2.216	9.4	19.4
9 8	23 43.13	+ 4 52.5	1.669	2.658	5.2	19.9	9 8	23 43.10	- 2 56.4	1.204	2.204	4.3	19.1
9 18	23 35.61	+ 3 47.8	1.658	2.660	2.2	19.7	9 18	23 35.63	- 4 8.7	1.189	2.194	1.3	18.9
9 28	23 28.25	+ 2 37.4	1.675	2.662	4.7	19.8	9 28	23 28.26	- 5 18.0	1.199	2.184	6.6	19.2
10 8	23 21.98	+ 1 28.8	1.718	2.664	8.6	20.1	10 8	23 22.23	- 6 15.3	1.233	2.175	11.7	19.5
10 18	23 17.50	+ 0 28.6	1.785	2.666	12.3	20.3	10 18	23 18.45	- 6 54.3	1.288	2.168	16.1	19.7
<b>72417</b>	2001 <i>CF</i> <sub>32</sub>		9 16.4 77°87	2°4/14.2	18		<b>517880</b>	2015 <i>RO</i> <sub>260</sub>		9 16.4 177°35	0°3/16.1	18	
8 9	0 2.77	- 6 41.3	1.768	2.613	15.0	18.9	8 9	23 59.42	- 0 49.5	2.410	3.227	12.4	22.0
8 19	23 58.58	- 7 16.2	1.701	2.620	11.5	18.7	8 19	23 55.47	- 1 20.1	2.326	3.228	9.6	21.8
8 29	23 52.17	- 7 59.6	1.656	2.627	7.6	18.4	8 29	23 49.87	- 2 1.1	2.266	3.229	6.5	21.6
9 8	23 44.17	- 8 46.2	1.636	2.634	3.7	18.2	9 8	23 43.06	- 2 49.3	2.231	3.229	3.0	21.4
9 18	23 35.42	- 9 29.5	1.642	2.641	3.0	18.2	9 18	23 35.66	- 3 40.5	2.225	3.229	0.8	21.2
9 28	23 26.97	-10 3.5	1.676	2.648	6.6	18.4	9 28	23 28.39	- 4 29.8	2.248	3.229	4.3	21.5
10 8	23 19.80	-10 23.6	1.735	2.656	10.4	18.7	10 8	23 21.96	- 5 12.4	2.299	3.229	7.7	21.7
10 18	23 14.60	-10 27.9	1.818	2.663	13.8	18.9	10 18	23 16.96	- 5 44.9	2.376	3.228	10.7	21.9
<b>315144</b>	2007 <i>EC</i> <sub>161</sub>		9 16.4 179°65	5°1/24.5	18		<b>39431</b>	5178 <i>T</i> <sub>-2</sub>		9 16.4 275°88	4°0/21.1	18	
8 9	23 57.08	+20 56.7	2.793	3.487	13.6	20.8	8 9	23 58.16	+12 10.1	2.260	3.024	14.6	19.0
8 19	23 53.55	+20 35.2	2.693	3.488	11.7	20.7	8 19	23 54.76	+12 12.7	2.165	3.019	12.2	18.8
8 29	23 48.52	+19 53.1	2.613	3.489	9.6	20.5	8 29	23 49.55	+11 57.2	2.089	3.013	9.3	18.6
9 8	23 42.41	+18 50.3	2.556	3.489	7.3	20.4	9 8	23 42.98	+11 23.8	2.038	3.007	6.4	18.4
9 18	23 35.75	+17 28.5	2.525	3.489	5.5	20.3	9 18	23 35.67	+10 34.5	2.012	3.001	4.2	18.3
9 28	23 29.20	+15 52.0	2.523	3.488	5.2	20.3	9 28	23 28.43	+ 9 33.6	2.014	2.995	4.8	18.3
10 8	23 23.39	+14 6.8	2.551	3.488	6.7	20.3	10 8	23 22.04	+ 8 27.3	2.044	2.989	7.6	18.5
10 18	23 18.85	+12 19.8	2.607	3.487	8.9	20.5	10 18	23 17.16	+ 7 21.7	2.100	2.983	10.6	18.7
<b>14939</b>	Norikura	</											

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>478965</b>	2012 <i>XD</i> <sub>86</sub>		9 16.4 327°83	7°8/11.1	18		<b>490447</b>	2009 <i>SX</i> <sub>166</sub>		9 16.4 321°23	4°5/12.3	17	
8 9	0 6.12	-19 21.9	1.436	2.302	16.6	20.2	8 9	0 1.62	-13 38.5	1.937	2.791	13.5	21.3
8 19	0 2.06	-20 1.1	1.363	2.287	13.4	19.9	8 19	23 57.77	-14 10.6	1.852	2.774	10.6	21.1
8 29	23 55.02	-20 38.2	1.310	2.273	10.1	19.7	8 29	23 51.75	-14 45.4	1.789	2.757	7.4	20.9
9 8	23 45.68	-21 3.8	1.280	2.259	7.9	19.6	9 8	23 44.08	-15 17.2	1.750	2.741	4.8	20.7
9 18	23 35.17	-21 9.6	1.273	2.246	8.5	19.6	9 18	23 35.53	-15 39.9	1.739	2.725	5.1	20.7
9 28	23 24.94	-20 49.4	1.291	2.234	11.5	19.7	9 28	23 27.09	-15 48.4	1.754	2.709	7.9	20.8
10 8	23 16.37	-20 2.2	1.332	2.223	15.1	19.9	10 8	23 19.75	-15 39.5	1.794	2.694	11.3	21.0
10 18	23 10.44	-18 50.4	1.392	2.212	18.6	20.1	10 18	23 14.26	-15 12.7	1.857	2.680	14.4	21.2
<b>371487</b>	2006 <i>TY</i> <sub>66</sub>		9 16.4 340°24	4°3/19.3	16		<b>84351</b>	2002 <i>TE</i> <sub>77</sub>		9 16.4 288°56	1°2/17.4	18	
8 9	0 2.92	+ 6 36.0	1.306	2.131	20.4	20.6	8 9	0 2.33	+ 2 26.2	1.518	2.348	17.8	20.2
8 19	23 59.76	+ 7 15.0	1.229	2.125	16.7	20.4	8 19	23 58.87	+ 2 20.4	1.435	2.340	14.2	19.9
8 29	23 53.62	+ 7 33.7	1.169	2.120	12.4	20.1	8 29	23 52.79	+ 1 57.0	1.372	2.334	9.9	19.7
9 8	23 45.10	+ 7 31.5	1.130	2.116	7.7	19.8	9 8	23 44.66	+ 1 18.4	1.331	2.327	5.1	19.4
9 18	23 35.27	+ 7 10.1	1.114	2.112	4.4	19.6	9 18	23 35.42	+ 0 29.4	1.316	2.320	1.3	19.1
9 28	23 25.56	+ 6 35.3	1.122	2.108	6.6	19.8	9 28	23 26.29	- 0 22.6	1.326	2.313	5.7	19.4
10 8	23 17.42	+ 5 55.2	1.154	2.105	11.2	20.0	10 8	23 18.51	- 1 10.0	1.362	2.306	10.6	19.7
10 18	23 11.93	+ 5 18.1	1.207	2.103	15.7	20.3	10 18	23 13.00	- 1 46.3	1.420	2.300	14.9	19.9
<b>263720</b>	2008 <i>HS</i> <sub>47</sub>		9 16.4 172°84	7°4/ 7.0	18		<b>342605</b>	2008 <i>UC</i> <sub>321</sub>		9 16.4 219°50	1°1/15.4	18	
8 9	0 2.06	-25 6.4	2.385	3.230	11.6	20.8	8 9	0 4.50	- 3 52.0	2.045	2.870	14.0	21.7
8 19	23 57.63	-26 22.6	2.329	3.232	9.6	20.7	8 19	23 59.81	- 4 11.1	1.957	2.864	10.9	21.5
8 29	23 51.35	-27 33.8	2.296	3.233	8.0	20.6	8 29	23 53.02	- 4 39.7	1.891	2.857	7.3	21.3
9 8	23 43.75	-28 32.9	2.289	3.234	7.4	20.6	9 8	23 44.65	- 5 14.0	1.851	2.850	3.3	21.0
9 18	23 35.56	-29 13.9	2.309	3.234	8.2	20.6	9 18	23 35.44	- 5 49.3	1.840	2.843	1.5	20.9
9 28	23 27.60	-29 33.0	2.354	3.235	9.9	20.8	9 28	23 26.36	- 6 20.4	1.856	2.835	5.4	21.1
10 8	23 20.69	-29 29.0	2.422	3.235	11.9	20.9	10 8	23 18.33	- 6 42.7	1.900	2.826	9.3	21.4
10 18	23 15.43	-29 3.1	2.511	3.235	13.8	21.0	10 18	23 12.08	- 6 53.2	1.969	2.818	12.7	21.6
<b>120347</b>	Salacia		9 16.4 123°15	0°5/27.9	18		<b>442786</b>	2012 <i>XN</i> <sub>144</sub>		9 16.4 298°69	17°2/28.8	17	
8 9	23 39.58	+24 17.1	44.345	44.959	1.0	20.7	8 9	0 13.92	+36 57.7	1.967	2.536	21.7	21.2
8 19	23 38.96	+24 17.2	44.241	44.961	0.9	20.6	8 19	0 8.98	+39 47.0	1.868	2.517	20.6	21.1
8 29	23 38.27	+24 16.0	44.157	44.963	0.8	20.6	8 29	0 0.55	+42 16.1	1.784	2.498	19.5	20.9
9 8	23 37.52	+24 13.6	44.097	44.965	0.7	20.6	9 8	23 48.82	+44 15.4	1.716	2.478	18.4	20.8
9 18	23 36.75	+24 10.1	44.062	44.967	0.6	20.6	9 18	23 34.55	+45 35.1	1.666	2.460	17.5	20.7
9 28	23 35.99	+24 5.5	44.054	44.969	0.5	20.6	9 28	23 19.27	+46 9.1	1.636	2.441	17.2	20.6
10 8	23 35.26	+24 0.1	44.074	44.971	0.6	20.6	10 8	23 4.92	+45 57.9	1.624	2.422	17.4	20.6
10 18	23 34.58	+23 54.0	44.120	44.973	0.7	20.6	10 18	22 53.29	+45 8.3	1.631	2.404	18.3	20.6
<b>464737</b>	2003 <i>GA</i> <sub>3</sub>		9 16.4 134°95	0°6/15.9	16		<b>82745</b>	2001 <i>QE</i> <sub>4</sub>		9 16.4 354°86	2°5/14.1	18	
8 9	0 9.85	- 2 7.8	1.695	2.517	16.5	22.1	8 9	23 57.10	- 5 8.8	1.571	2.430	15.9	18.9
8 19	0 4.12	- 2 27.6	1.628	2.532	12.9	21.9	8 19	23 54.58	- 6 0.3	1.499	2.426	12.2	18.6
8 29	23 55.91	- 2 59.7	1.582	2.546	8.6	21.7	8 29	23 49.75	- 7 4.5	1.449	2.424	8.1	18.4
9 8	23 45.93	- 3 39.5	1.562	2.560	3.9	21.5	9 8	23 43.18	- 8 14.9	1.422	2.421	3.9	18.1
9 18	23 35.16	- 4 21.6	1.569	2.573	1.2	21.3	9 18	23 35.73	- 9 23.5	1.421	2.420	3.2	18.1
9 28	23 24.78	- 4 59.4	1.604	2.584	5.8	21.6	9 28	23 28.49	-10 21.9	1.445	2.419	7.2	18.3
10 8	23 15.89	- 5 27.6	1.666	2.595	10.1	21.9	10 8	23 22.51	-11 3.8	1.494	2.419	11.4	18.6
10 18	23 9.25	- 5 42.9	1.752	2.606	13.8	22.2	10 18	23 18.55	-11 25.6	1.565	2.420	15.1	18.8
<b>481032</b>	2004 <i>YZ</i> <sub>23</sub>		9 16.4 156°94	8°4/18.0	18		<b>202911</b>	1997 <i>EC</i> <sub>14</sub>		9 16.4 261°47	0°1/16.5	18	
8 9	0 11.56	+60 31.3	5.445	5.641	10.3	23.2	8 9	0 0.19	+ 1 3.9	1.922	2.744	14.8	20.9
8 19	0 4.70	+61 13.2	5.360	5.651	10.1	23.2	8 19	23 56.68	+ 0 31.7	1.828	2.731	11.7	20.7
8 29	23 55.98	+61 39.1	5.282	5.661	9.8	23.1	8 29	23 51.06	- 0 16.0	1.754	2.717	8.0	20.5
9 8	23 45.91	+61 46.6	5.214	5.671	9.5	23.1	9 8	23 43.79	- 1 15.7	1.706	2.703	3.8	20.2
9 18	23 35.15	+61 33.7	5.159	5.679	9.1	23.0	9 18	23 35.61	- 2 22.2	1.684	2.689	0.7	19.9
9 28	23 24.56	+60 59.9	5.118	5.687	8.8	23.0	9 28	23 27.45	- 3 28.7	1.691	2.674	5.2	20.2
10 8	23 14.93	+60 6.4	5.095	5.695	8.5	23.0	10 8	23 20.29	- 4 28.1	1.724	2.660	9.4	20.4
10 18	23 6.91	+58 55.9	5.090	5.702	8.4	23.0	10 18	23 14.92	- 5 15.1	1.782	2.645	13.2	20.6
<b>450323</b>	2004 <i>TJ</i> <sub>2</sub>		9 16.4 305°83	2°8/13.9	17		<b>373177</b>	2012 <i>DT</i> <sub>35</sub>		9 16.4 108°48	1°3/15.4	17	
8 9	0 2.78	- 9 29.9	2.036	2.878	13.4	20.8	8 9	0 6.33	- 3 13.2	1.537	2.376	17.1	21.3
8 19	23 58.56	- 9 47.5	1.944	2.861	10.4	20.6	8 19	0 1.65	- 3 41.2	1.474	2.388	13.3	21.1
8 29	23 52.22	-10 10.3	1.874	2.843	7.0	20.4	8 29	23 54.40	- 4 21.8	1.432	2.401	8.8	20.9
9 8	23 44.28	-10 33.6	1.829	2.826	3.7	20.1	9 8	23 45.29	- 5 9.7	1.413	2.413	4.0	20.6
9 18	23 35.45	-10 52.6	1.812	2.809	3.3	20.1	9 18	23 35.35	- 5 58.3	1.421	2.424	1.8	20.5
9 28	23 26.70	-11 2.5	1.823	2.792	6.5	20.2	9 28	23 25.81	- 6 40.2	1.456	2.435	6.4	20.8
10 8	23 18.96	-10 59.8	1.860	2.775	10.1	20.4	10 8	23 17.81	- 7 9.7	1.516	2.446	10.9	21.1
10 18	23 13.00	-10 43.0	1.921	2.759	13.4	20.6	10 18	23 12.13	- 7 23.5	1.599	2.457	14.7	21.4
<b>46191</b>	2001 <i>FS</i> <sub>140</sub>		9 16.4 310°24	0°8/15.4	18		<b>441727</b>	2009 <i>BL</i> <sub>53</sub>		9 16.4 95°64	3°5/12.6	18	
8 9	23 56.17	- 0 59.8	2.216	3.045	12.9	19.4	8 9	0 0.86	- 9 5.6	1.997	2.843	13.4	21.7
8 19	23 53.17	- 1 52.3	2.130	3.040	10.0	19.2	8 19	23 56.82	-10 13.7	1.939	2.859	10.3	21.6
8 29	23 48.46	- 2 57.5	2.068	3.035	6.7	19.0	8 29	23 50.87	-11 28.2	1.904	2.874	6.9	21.4
9 8	23 42.47	- 4 11.1	2.031	3.030	3.0	18.8	9 8	23 43.56	-12 42.6	1.895	2.889	4.0	21.3
9 18	23 35.82	- 5 27.6	2.022	3.025	1.3	18.6	9 18	23 35.68	-13 49.9	1.914	2.904	4.1	21.3
9 28	23 29.28	- 6 40.4	2.041	3.020	4.9	18.9	9 28	23 28.09	-14 43.8	1.961	2.919	7.0	21.5
10 8	23 23.59	- 7 43.7	2.088	3.016	8.5	19.1	10 8	23 21.63	-15 20.3	2.033	2.933	10.2	21.7
10 18	23 19.37	- 8 33.1	2.160	3.011	11.7	19.3	10 18	23 16.90	-15 37.9	2.129	2.947	13.0	22.0
<b>192966</b>	2000 <i>CS</i> <sub>140</sub>		9 16.4 342°58	1°1/18.5	16		<b>85504</b>	1997 <i>TC</i> <sub>26&lt;/</sub>					

EPHEMERIDES

9 16.4

9 16.4

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>161965</b>	2007 <i>HX</i> <sub>87</sub>		9 16.4 41°60	3°4/12.9	17		<b>508399</b>	2016 <i>GO</i> <sub>190</sub>		9 16.4 82°34	18°5/3.9	17	
8 9	23 56.54	- 3 39.4	1.375	2.239	17.4	19.2	8 9	0 29.20	-48 58.0	1.484	2.262	20.4	20.7
8 19	23 54.27	- 5 24.8	1.323	2.254	13.2	18.9	8 19	0 20.22	-50 26.3	1.473	2.278	19.3	20.7
8 29	23 49.54	- 7 26.7	1.293	2.269	8.6	18.7	8 29	0 6.91	-51 22.5	1.477	2.293	18.6	20.7
9 8	23 43.05	- 9 34.6	1.286	2.285	4.3	18.5	9 8	23 50.90	-51 34.2	1.499	2.308	18.5	20.7
9 18	23 35.78	-11 36.3	1.305	2.302	4.3	18.6	9 18	23 34.46	-50 55.4	1.538	2.324	19.1	20.8
9 28	23 28.90	-13 20.0	1.350	2.319	8.4	18.9	9 28	23 19.90	-49 27.5	1.595	2.339	20.0	21.0
10 8	23 23.49	-14 37.8	1.420	2.336	12.6	19.1	10 8	23 8.82	-47 19.2	1.668	2.354	21.1	21.1
10 18	23 20.24	-15 26.7	1.510	2.354	16.2	19.4	10 18	23 1.83	-44 41.3	1.756	2.369	22.2	21.3
<b>240126</b>	2002 <i>GU</i> <sub>36</sub>		9 16.4 94°44	3°0/13.7	18		<b>383161</b>	2005 <i>UP</i> <sub>440</sub>		9 16.4 301°63	0°6/16.9	18	
8 9	0 3.92	- 8 9.9	1.766	2.612	14.9	20.2	8 9	0 1.74	+ 0 23.9	1.491	2.329	17.6	21.1
8 19	23 59.46	- 8 51.0	1.704	2.623	11.5	20.0	8 19	23 58.68	+ 0 21.4	1.394	2.306	14.1	20.8
8 29	23 52.78	- 9 39.5	1.663	2.634	7.6	19.8	8 29	23 52.90	+ 0 3.0	1.317	2.283	9.8	20.5
9 8	23 44.50	-10 29.2	1.647	2.644	4.0	19.6	9 8	23 44.86	- 0 29.1	1.263	2.260	4.8	20.2
9 18	23 35.52	-11 13.7	1.658	2.655	3.6	19.6	9 18	23 35.45	- 1 10.1	1.233	2.238	0.9	19.8
9 28	23 26.88	-11 46.8	1.697	2.665	7.0	19.8	9 28	23 25.93	- 1 53.1	1.229	2.215	6.2	20.2
10 8	23 19.55	-12 4.4	1.761	2.675	10.7	20.0	10 8	23 17.65	- 2 30.3	1.250	2.193	11.4	20.4
10 18	23 14.23	-12 5.0	1.848	2.685	13.9	20.3	10 18	23 11.70	- 2 55.6	1.292	2.172	16.1	20.6
<b>84967</b>	2003 <i>YX</i> <sub>16</sub>		9 16.4 318°33	7°2/9.4	18		<b>106250</b>	2000 <i>UM</i> <sub>52</sub>		9 16.4 318°96	5°9/12.2	18	
8 9	0 1.08	-18 18.4	1.714	2.579	14.4	18.8	8 9	0 2.95	-12 9.7	1.255	2.129	18.0	19.2
8 19	23 57.62	-19 33.0	1.646	2.570	11.5	18.6	8 19	23 59.89	-13 6.9	1.186	2.120	14.1	18.9
8 29	23 51.77	-20 48.4	1.600	2.562	8.7	18.5	8 29	23 53.75	-14 11.8	1.137	2.111	9.8	18.6
9 8	23 44.13	-21 55.4	1.578	2.554	7.2	18.4	9 8	23 45.21	-15 14.7	1.110	2.103	6.4	18.4
9 18	23 35.58	-22 45.6	1.582	2.545	8.1	18.4	9 18	23 35.41	-16 5.0	1.106	2.095	6.8	18.4
9 28	23 27.26	-23 12.1	1.610	2.538	10.7	18.5	9 28	23 25.87	-16 33.4	1.126	2.087	10.7	18.6
10 8	23 20.23	-23 12.3	1.661	2.530	13.8	18.7	10 8	23 18.04	-16 35.0	1.168	2.080	15.1	18.9
10 18	23 15.30	-22 46.8	1.732	2.523	16.7	18.9	10 18	23 12.95	-16 9.7	1.229	2.073	19.1	19.1
<b>119145</b>	2001 <i>PS</i> <sub>41</sub>		9 16.4 301°22	10°2/21.2	18		<b>100625</b>	1997 <i>UZ</i>		9 16.4 351°92	1°8/18.1	18	
8 9	0 11.70	+15 12.6	1.574	2.326	20.5	19.1	8 9	23 58.90	+ 4 5.6	1.669	2.492	16.7	19.2
8 19	0 6.89	+17 13.6	1.469	2.303	17.9	18.9	8 19	23 55.91	+ 4 1.1	1.589	2.489	13.4	19.0
8 29	23 58.81	+19 0.6	1.382	2.280	15.0	18.6	8 29	23 50.63	+ 3 39.2	1.529	2.486	9.4	18.7
9 8	23 47.83	+20 27.0	1.317	2.257	12.1	18.4	9 8	23 43.63	+ 3 2.0	1.491	2.484	5.1	18.5
9 18	23 34.81	+21 26.3	1.276	2.234	10.3	18.2	9 18	23 35.71	+ 2 13.7	1.479	2.482	1.8	18.2
9 28	23 21.24	+21 55.5	1.259	2.211	10.7	18.2	9 28	23 27.95	+ 1 20.8	1.494	2.481	5.1	18.5
10 8	23 8.83	+21 57.3	1.267	2.189	13.3	18.3	10 8	23 21.38	+ 0 30.6	1.534	2.480	9.4	18.7
10 18	22 59.05	+21 39.4	1.297	2.167	16.7	18.4	10 18	23 16.78	- 0 10.9	1.597	2.480	13.3	19.0
<b>451176</b>	2009 <i>SK</i> <sub>270</sub>		9 16.4 26°00	3°7/12.9	18		<b>404791</b>	2014 <i>JO</i> <sub>54</sub>		9 16.4 310°94	18°9/24.8	16	
8 9	0 1.93	-11 51.9	1.952	2.802	13.6	20.9	8 9	23 59.55	-34 17.7	1.004	1.890	20.6	20.3
8 19	23 57.75	-12 22.6	1.887	2.808	10.5	20.7	8 19	23 58.65	-38 16.4	0.976	1.882	19.2	20.2
8 29	23 51.55	-12 56.6	1.844	2.814	7.1	20.5	8 29	23 53.68	-41 53.8	0.968	1.874	19.1	20.2
9 8	23 43.92	-13 28.4	1.827	2.820	4.3	20.3	9 8	23 45.40	-44 46.7	0.978	1.866	20.3	20.2
9 18	23 35.64	-13 52.6	1.836	2.827	4.3	20.4	9 18	23 35.37	-46 38.7	1.005	1.858	22.4	20.3
9 28	23 27.65	-14 4.6	1.873	2.834	7.1	20.5	9 28	23 25.80	-47 23.1	1.046	1.851	24.8	20.5
10 8	23 20.83	-14 1.5	1.936	2.841	10.3	20.8	10 8	23 18.73	-47 4.4	1.099	1.844	27.0	20.6
10 18	23 15.82	-13 42.8	2.021	2.849	13.3	21.0	10 18	23 15.36	-45 52.6	1.161	1.838	29.0	20.8
<b>432839</b>	2011 <i>HU</i> <sub>38</sub>		9 16.4 21°03	2°5/19.1	18		<b>301431</b>	2009 <i>DL</i> <sub>63</sub>		9 16.4 285°90	0°3/16.7	18	
8 9	23 52.62	+10 21.4	1.272	2.101	20.6	20.0	8 9	0 2.62	- 0 26.2	1.850	2.675	15.2	21.0
8 19	23 51.53	+ 9 20.4	1.208	2.109	16.7	19.7	8 19	23 58.64	- 0 30.5	1.760	2.665	12.0	20.8
8 29	23 47.88	+ 7 46.5	1.162	2.118	12.0	19.5	8 29	23 52.42	- 0 47.0	1.691	2.654	8.2	20.5
9 8	23 42.36	+ 5 44.3	1.138	2.128	6.8	19.2	9 8	23 44.46	- 1 13.1	1.647	2.644	4.0	20.3
9 18	23 35.92	+ 3 23.5	1.137	2.139	2.6	19.0	9 18	23 35.56	- 1 44.7	1.629	2.633	0.7	20.0
9 28	23 29.81	+ 0 58.3	1.162	2.152	5.7	19.2	9 28	23 26.73	- 2 16.5	1.639	2.623	5.2	20.3
10 8	23 25.15	- 1 16.5	1.211	2.165	10.6	19.6	10 8	23 18.99	- 2 42.9	1.675	2.613	9.4	20.5
10 18	23 22.72	- 3 9.7	1.284	2.179	15.0	19.9	10 18	23 13.16	- 2 59.8	1.735	2.603	13.2	20.7
<b>40132</b>	1998 <i>QL</i> <sub>48</sub>		9 16.4 34°38	1°7/18.2	18		<b>225733</b>	2001 <i>RA</i> <sub>131</sub>		9 16.4 38°24	1°7/15.1	16	
8 9	23 58.13	+ 4 51.4	1.924	2.736	15.2	18.1	8 9	0 1.05	- 3 4.5	1.229	2.092	19.1	20.4
8 19	23 54.87	+ 4 38.7	1.852	2.745	12.1	18.0	8 19	23 58.04	- 3 42.2	1.178	2.106	14.8	20.2
8 29	23 49.67	+ 4 9.8	1.801	2.755	8.5	17.8	8 29	23 52.20	- 4 35.4	1.146	2.120	9.7	20.0
9 8	23 43.07	+ 3 27.4	1.774	2.765	4.7	17.6	9 8	23 44.34	- 5 37.2	1.135	2.136	4.4	19.7
9 18	23 35.80	+ 2 35.5	1.773	2.775	1.7	17.4	9 18	23 35.61	- 6 38.6	1.149	2.152	2.4	19.6
9 28	23 28.75	+ 1 40.0	1.799	2.786	4.4	17.6	9 28	23 27.40	- 7 30.5	1.187	2.169	7.3	20.0
10 8	23 22.76	+ 0 47.3	1.853	2.797	8.2	17.8	10 8	23 20.91	- 8 5.9	1.249	2.186	12.1	20.3
10 18	23 18.48	+ 0 2.5	1.931	2.809	11.6	18.1	10 18	23 16.95	- 8 21.5	1.332	2.204	16.2	20.6
<b>38610</b>	2000 <i>AU</i> <sub>45</sub>		9 16.4 140°99	3°2/23.5	18		<b>307540</b>	2003 <i>DL</i> <sub>11</sub>		9 16.4 175°41	1°4/14.9	18	
8 9	23 52.73	+16 58.1	4.579	5.280	8.5	19.0	8 9	23 59.04	- 3 16.8	2.201	3.031	12.9	20.8
8 19	23 49.63	+17 3.7	4.478	5.280	7.3	18.9	8 19	23 55.38	- 4 3.6	2.121	3.032	10.0	20.6
8 29	23 45.66	+16 58.8	4.399	5.281	5.9	18.8	8 29	23 49.94	- 5 0.8	2.065	3.033	6.6	20.4
9 8	23 41.07	+16 43.8	4.345	5.282	4.4	18.7	9 8	23 43.20	- 6 4.0	2.034	3.033	3.0	20.2
9 18	23 36.18	+16 19.3	4.319	5.282	3.4	18.6	9 18	23 35.81	- 7 7.6	2.032	3.033	1.8	20.1
9 28	23 31.32	+15 47.1	4.321	5.283	3.4	18.6	9 28	23 28.58	- 8 5.9	2.058	3.034	5.2	20.3
10 8	23 26.86	+15 9.4	4.352	5.283	4.3	18.7	10 8	23 22.26	- 8 53.5	2.111	3.034	8.7	20.5
10 18	23 23.11	+14 29.0	4.411	5.284	5.7	18.8	10 18	23 17.47	- 9 27.2	2.189	3.033	11.8	20.7
<b>166523</b>	2002 <i>QG</i> <sub>101</sub>		9 16.4 50°10	2°0/14.6	18		<b>279490</b>	2010 <i>X</i>					

EPHEMERIDES

9 16.4

9 16.5

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>100769</b>	1998 <i>FU</i> <sub>29</sub>		9 16.4 126°32	1°5/17.8	18		<b>52106</b>	2673 <i>P-L</i>		9 16.5 335°44	1°1/15.4	18	
8 9	0 4.56	+ 4 42.3	1.711	2.519	17.0	20.5	8 9	23 59.42	- 2 39.3	1.745	2.587	15.3	19.1
8 19	0 0.09	+ 4 18.8	1.641	2.532	13.5	20.3	8 19	23 56.22	- 3 10.6	1.666	2.582	11.9	18.9
8 29	23 53.29	+ 3 36.7	1.591	2.545	9.4	20.1	8 29	23 50.80	- 3 54.6	1.608	2.578	7.9	18.6
9 8	23 44.80	+ 2 39.2	1.565	2.558	5.0	19.8	9 8	23 43.73	- 4 46.9	1.574	2.573	3.6	18.4
9 18	23 35.53	+ 1 31.9	1.566	2.569	1.5	19.6	9 18	23 35.79	- 5 41.3	1.566	2.569	1.6	18.2
9 28	23 26.56	+ 0 22.1	1.595	2.581	5.0	19.9	9 28	23 28.01	- 6 30.9	1.585	2.566	5.9	18.5
10 8	23 18.92	- 0 42.4	1.650	2.591	9.3	20.2	10 8	23 21.38	- 7 9.7	1.630	2.563	10.1	18.8
10 18	23 13.36	- 1 35.6	1.730	2.601	13.1	20.4	10 18	23 16.66	- 7 33.7	1.698	2.560	13.8	19.0
<b>50669</b>	2000 <i>ES</i> <sub>105</sub>		9 16.4 310°52	7°7/10.6	18		<b>185180</b>	2006 <i>SQ</i> <sub>341</sub>		9 16.5 113°15	4°1/13.2	18	
8 9	0 3.45	-16 51.5	1.359	2.232	17.0	18.2	8 9	0 6.69	-10 22.3	1.587	2.438	16.1	20.3
8 19	0 0.23	-17 55.4	1.284	2.214	13.6	18.0	8 19	0 1.92	-11 7.3	1.526	2.448	12.4	20.1
8 29	23 54.00	-19 2.2	1.229	2.197	10.1	17.7	8 29	23 54.61	-11 58.5	1.486	2.457	8.4	19.9
9 8	23 45.36	-20 1.7	1.196	2.179	7.8	17.5	9 8	23 45.47	-12 48.5	1.471	2.465	4.8	19.7
9 18	23 35.40	-20 43.1	1.187	2.162	8.7	17.5	9 18	23 35.50	-13 29.9	1.481	2.474	4.7	19.7
9 28	23 25.60	-20 57.8	1.201	2.146	12.0	17.7	9 28	23 25.94	-13 56.2	1.519	2.482	8.2	20.0
10 8	23 17.40	-20 42.3	1.237	2.129	15.9	17.9	10 8	23 17.91	-14 3.6	1.581	2.490	12.0	20.2
10 18	23 11.86	-19 57.6	1.292	2.114	19.6	18.1	10 18	23 12.17	-13 51.4	1.665	2.498	15.4	20.4
<b>65725</b>	1993 <i>FB</i> <sub>52</sub>		9 16.4 254°65	1°1/15.3	18		<b>251705</b>	1996 <i>UJ</i>		9 16.5 291°86	9°1/10.8	18	
8 9	23 59.62	- 1 20.9	1.970	2.800	14.2	19.8	8 9	0 17.68	-22 15.7	1.534	2.377	17.0	20.7
8 19	23 56.20	- 2 13.8	1.876	2.786	11.1	19.6	8 19	0 11.70	-22 59.6	1.432	2.338	14.1	20.4
8 29	23 50.73	- 3 21.3	1.805	2.772	7.4	19.3	8 29	0 2.10	-23 40.5	1.349	2.299	11.2	20.2
9 8	23 43.67	- 4 39.0	1.759	2.758	3.4	19.1	9 8	23 49.40	-24 7.3	1.290	2.259	9.2	19.9
9 18	23 35.73	- 6 0.3	1.740	2.743	1.6	18.9	9 18	23 34.71	-24 9.2	1.256	2.219	9.9	19.9
9 28	23 27.82	- 7 17.7	1.750	2.728	5.7	19.2	9 28	23 19.78	-23 37.8	1.248	2.178	13.0	19.9
10 8	23 20.88	- 8 24.0	1.787	2.713	9.8	19.4	10 8	23 6.44	-22 31.6	1.264	2.136	17.1	20.1
10 18	23 15.66	- 9 14.3	1.848	2.698	13.4	19.6	10 18	22 56.14	-20 54.5	1.300	2.094	21.0	20.2
<b>1647</b>	Menelaus		9 16.4 178°85	1°2/18.9	18		<b>144461</b>	2004 <i>EO</i> <sub>44</sub>		9 16.5 271°76	0°1/16.5	18	
8 9	23 52.08	+ 5 48.2	4.548	5.321	7.6	18.0	8 9	0 3.33	- 0 1.6	1.614	2.446	16.8	21.1
8 19	23 49.10	+ 5 35.0	4.452	5.321	6.1	17.8	8 19	23 59.68	- 0 17.8	1.520	2.429	13.3	20.8
8 29	23 45.30	+ 5 14.5	4.381	5.321	4.4	17.7	8 29	23 53.44	- 0 49.8	1.446	2.411	9.2	20.5
9 8	23 40.93	+ 4 47.6	4.337	5.321	2.5	17.6	9 8	23 45.12	- 1 34.3	1.395	2.393	4.4	20.2
9 18	23 36.27	+ 4 16.1	4.321	5.321	1.2	17.5	9 18	23 35.56	- 2 26.1	1.370	2.375	0.8	19.9
9 28	23 31.66	+ 3 42.0	4.337	5.321	2.2	17.6	9 28	23 25.97	- 3 17.9	1.372	2.356	6.0	20.2
10 8	23 27.43	+ 3 7.7	4.381	5.321	4.0	17.7	10 8	23 17.59	- 4 2.2	1.399	2.338	10.9	20.5
10 18	23 23.88	+ 2 35.4	4.454	5.321	5.8	17.8	10 18	23 11.40	- 4 33.2	1.449	2.319	15.2	20.7
<b>384722</b>	2011 <i>HN</i> <sub>102</sub>		9 16.4 21°92	11°7/6.3	17		<b>31514</b>	1999 <i>CL</i> <sub>101</sub>		9 16.5 57°09	1°9/15.0	18	
8 9	23 54.79	-20 45.6	1.007	1.911	19.0	18.4	8 9	0 5.34	- 5 38.4	1.582	2.427	16.5	17.7
8 19	23 53.80	-23 9.8	0.982	1.925	15.4	18.2	8 19	0 0.97	- 5 55.7	1.512	2.430	12.8	17.5
8 29	23 49.61	-25 27.1	0.976	1.940	12.6	18.1	8 29	23 54.05	- 6 22.8	1.463	2.433	8.5	17.2
9 8	23 43.18	-27 20.4	0.991	1.958	11.8	18.2	9 8	23 45.26	- 6 54.5	1.437	2.437	4.0	17.0
9 18	23 35.87	-28 36.6	1.027	1.977	13.2	18.3	9 18	23 35.56	- 7 24.9	1.438	2.440	2.4	16.9
9 28	23 29.24	-29 8.7	1.082	1.997	16.0	18.5	9 28	23 26.17	- 7 47.8	1.466	2.443	6.6	17.2
10 8	23 24.59	-28 57.7	1.156	2.019	19.0	18.8	10 8	23 18.21	- 7 58.5	1.518	2.447	11.0	17.4
10 18	23 22.63	-28 9.6	1.245	2.042	21.6	19.1	10 18	23 12.50	- 7 54.5	1.594	2.451	14.8	17.7
<b>82678</b>	2001 <i>PD</i> <sub>24</sub>		9 16.4 270°86	4°4/11.6	18		<b>381098</b>	2007 <i>CB</i> <sub>22</sub>		9 16.5 246°58	1°9/14.7	16	
8 9	23 59.86	-11 50.5	1.984	2.838	13.2	19.2	8 9	0 1.54	- 3 26.0	1.692	2.534	15.7	21.6
8 19	23 56.30	-12 57.2	1.909	2.832	10.2	19.0	8 19	23 58.01	- 4 15.6	1.609	2.526	12.2	21.4
8 29	23 50.71	-14 9.5	1.857	2.826	7.1	18.8	8 29	23 52.11	- 5 19.2	1.548	2.518	8.1	21.1
9 8	23 43.63	-15 20.7	1.830	2.821	4.7	18.7	9 8	23 44.40	- 6 31.4	1.510	2.510	3.8	20.8
9 18	23 35.77	-16 23.4	1.831	2.815	5.2	18.7	9 18	23 35.71	- 7 44.5	1.500	2.501	2.4	20.7
9 28	23 28.08	-17 11.2	1.859	2.809	8.0	18.9	9 28	23 27.14	- 8 50.5	1.516	2.493	6.7	21.0
10 8	23 21.43	-17 39.7	1.911	2.803	11.2	19.0	10 8	23 19.76	- 9 42.1	1.558	2.484	11.0	21.2
10 18	23 16.53	-17 47.6	1.987	2.797	14.1	19.2	10 18	23 14.42	-10 15.0	1.623	2.474	14.8	21.4
<b>24610</b>	1978 <i>RA</i> <sub>10</sub>		9 16.5 300°37	0°1/16.4	18		<b>224678</b>	2006 <i>AZ</i> <sub>58</sub>		9 16.5 118°14	0°1/16.5	18	
8 9	0 1.54	- 0 36.6	1.370	2.218	18.3	18.7	8 9	23 59.40	+ 0 1.0	2.589	3.399	11.8	21.6
8 19	23 58.81	- 0 48.4	1.275	2.193	14.6	18.4	8 19	23 55.32	- 0 25.1	2.514	3.410	9.2	21.5
8 29	23 53.17	- 1 17.6	1.200	2.169	10.1	18.0	8 29	23 49.75	- 1 1.1	2.461	3.421	6.2	21.3
9 8	23 45.09	- 2 0.9	1.146	2.144	4.8	17.7	9 8	23 43.11	- 1 44.0	2.435	3.432	2.9	21.1
9 18	23 35.49	- 2 52.6	1.116	2.120	1.0	17.3	9 18	23 35.97	- 2 30.0	2.438	3.442	0.5	20.9
9 28	23 25.75	- 3 44.2	1.111	2.096	6.8	17.6	9 28	23 29.00	- 3 14.7	2.470	3.452	3.9	21.2
10 8	23 17.33	- 4 26.9	1.130	2.073	12.4	17.9	10 8	23 22.85	- 3 54.2	2.530	3.462	7.0	21.4
10 18	23 11.43	- 4 54.1	1.169	2.049	17.4	18.1	10 18	23 18.01	- 4 25.0	2.617	3.472	9.8	21.6
<b>397693</b>	2008 <i>CR</i> <sub>120</sub>		9 16.5 358°94	14°8/30.8	14 C		<b>358392</b>	2007 <i>AR</i> <sub>7</sub>		9 16.5 132°22	3°5/12.2	18	
8 9	23 54.33	-20 53.9	0.919	1.829	19.8	19.6	8 9	23 58.83	-10 5.4	2.248	3.094	12.2	21.0
8 19	23 54.17	-25 21.5	0.884	1.827	16.6	19.4	8 19	23 55.20	-11 12.3	2.178	3.097	9.3	20.9
8 29	23 50.43	-29 48.5	0.870	1.826	14.9	19.3	8 29	23 49.82	-12 24.9	2.131	3.101	6.3	20.7
9 8	23 43.84	-33 45.7	0.879	1.826	15.7	19.4	9 8	23 43.19	-13 37.5	2.112	3.104	3.9	20.5
9 18	23 35.75	-36 49.1	0.909	1.826	18.4	19.5	9 18	23 35.96	-14 43.6	2.120	3.108	4.2	20.6
9 28	23 28.05	-38 45.3	0.957	1.826	21.7	19.8	9 28	23 28.91	-15 37.5	2.157	3.111	6.8	20.7
10 8	23 22.50	-39 34.9	1.019	1.828	24.8	20.0	10 8	23 22.78	-16 15.2	2.220	3.114	9.7	20.9
10 18	23 20.19	-39 26.4	1.093	1.830	27.4	20.2	10 18	23 18.17	-16 34.9	2.306	3.117	12.4	21.1
<b>401619</b>	2013 <i>GK</i> <sub>54</sub>		9 16.5 58°87	2°8/13.5	18		<b>392591</b>	2011 <i>SQ</i> <sub>201</sub>					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>511339</b>	2014 <i>EG</i> <sub>22</sub>		9 16.5 231°02	0°5/15.9	18		<b>521431</b>	2015 <i>MR</i> <sub>149</sub>		9 16.5 153°42	5°9/23.2	18	
8 9	0 2.67	- 1 36.9	2.019	2.843	14.2	22.5	8 9	0 1.52	+17 11.1	2.197	2.927	15.9	21.2
8 19	23 58.50	- 2 2.0	1.929	2.834	11.1	22.3	8 19	23 57.50	+17 34.0	2.109	2.931	13.6	21.0
8 29	23 52.24	- 2 39.0	1.861	2.825	7.5	22.0	8 29	23 51.52	+17 36.5	2.039	2.934	11.0	20.9
9 8	23 44.41	- 3 24.3	1.818	2.816	3.4	21.8	9 8	23 44.07	+17 17.5	1.992	2.938	8.3	20.7
9 18	23 35.73	- 4 13.0	1.803	2.807	1.0	21.6	9 18	23 35.84	+16 37.9	1.971	2.941	6.3	20.6
9 28	23 27.12	- 4 59.2	1.816	2.797	5.2	21.9	9 28	23 27.72	+15 41.1	1.976	2.943	6.2	20.6
10 8	23 19.53	- 5 37.5	1.856	2.787	9.2	22.1	10 8	23 20.57	+14 33.5	2.009	2.946	8.2	20.7
10 18	23 13.69	- 6 3.8	1.921	2.776	12.7	22.3	10 18	23 15.08	+13 21.9	2.067	2.948	10.8	20.9
<b>298263</b>	2002 <i>WN</i> <sub>15</sub>		9 16.5 304°20	5°8/10.7	18		<b>315298</b>	2007 <i>TH</i> <sub>160</sub>		9 16.5 307°01	7°1/23.9	18	
8 9	23 59.49	-13 49.9	1.745	2.609	14.3	20.5	8 9	23 56.24	+18 58.0	1.773	2.521	18.6	20.2
8 19	23 56.51	-15 2.9	1.660	2.587	11.2	20.3	8 19	23 54.09	+19 10.2	1.669	2.501	16.2	20.0
8 29	23 51.18	-16 22.3	1.596	2.565	8.1	20.0	8 29	23 49.64	+18 55.0	1.581	2.481	13.3	19.7
9 8	23 44.01	-17 39.7	1.557	2.543	5.9	19.9	9 8	23 43.35	+18 9.9	1.514	2.462	10.2	19.5
9 18	23 35.79	-18 46.4	1.544	2.522	6.7	19.9	9 18	23 35.95	+16 55.0	1.469	2.442	7.6	19.3
9 28	23 27.61	-19 34.2	1.556	2.501	9.7	20.0	9 28	23 28.47	+15 14.9	1.450	2.423	7.4	19.3
10 8	23 20.56	-19 58.0	1.592	2.480	13.3	20.2	10 8	23 22.02	+13 18.9	1.457	2.404	9.7	19.4
10 18	23 15.50	-19 56.2	1.649	2.459	16.6	20.3	10 18	23 17.51	+11 18.3	1.488	2.386	13.2	19.5
<b>174390</b>	2002 <i>VX</i> <sub>19</sub>		9 16.5 309°85	0°1/16.6	18		<b>23384</b>	5163 <i>T</i> <sub>-2</sub>		9 16.5 193°28	3°5/20.9	18	R
8 9	23 58.81	+ 0 19.0	1.722	2.556	15.8	20.6	8 9	0 0.73	+11 42.9	2.762	3.509	12.6	19.4
8 19	23 55.96	- 0 0.6	1.627	2.537	12.5	20.3	8 19	23 56.43	+11 51.7	2.664	3.508	10.5	19.2
8 29	23 50.81	- 0 35.7	1.552	2.517	8.6	20.0	8 29	23 50.58	+11 46.2	2.588	3.505	8.0	19.1
9 8	23 43.85	- 1 23.1	1.501	2.498	4.1	19.7	9 8	23 43.57	+11 26.6	2.537	3.503	5.5	18.9
9 18	23 35.82	- 2 17.7	1.475	2.480	0.7	19.4	9 18	23 35.94	+10 54.4	2.513	3.500	3.7	18.8
9 28	23 27.79	- 3 12.6	1.476	2.461	5.5	19.7	9 28	23 28.37	+10 12.5	2.519	3.496	4.2	18.8
10 8	23 20.81	- 4 0.6	1.503	2.443	10.1	20.0	10 8	23 21.53	+ 9 25.5	2.553	3.493	6.5	18.9
10 18	23 15.78	- 4 36.0	1.553	2.426	14.2	20.2	10 18	23 15.96	+ 8 37.8	2.614	3.488	9.1	19.1
<b>247761</b>	2003 <i>QC</i> <sub>11</sub>		9 16.5 15°08	9°2/23.8	18		<b>162131</b>	1998 <i>SL</i> <sub>127</sub>		9 16.5 340°58	7°3/12.0	18	
8 9	23 59.35	+16 38.9	1.280	2.067	22.6	19.0	8 9	0 0.89	-16 38.7	1.181	2.067	18.2	18.4
8 19	23 57.04	+17 53.6	1.216	2.073	19.5	18.8	8 19	23 58.66	-17 6.6	1.106	2.044	14.5	18.1
8 29	23 51.83	+18 39.9	1.167	2.080	16.0	18.6	8 29	23 53.19	-17 34.9	1.050	2.024	10.6	17.8
9 8	23 44.38	+18 53.8	1.137	2.088	12.3	18.3	9 8	23 45.13	-17 54.1	1.015	2.004	7.7	17.6
9 18	23 35.74	+18 34.5	1.127	2.098	9.7	18.3	9 18	23 35.64	-17 54.8	1.002	1.987	8.1	17.6
9 28	23 27.35	+17 46.2	1.139	2.108	9.4	18.3	9 28	23 26.31	-17 29.8	1.011	1.971	11.6	17.7
10 8	23 20.58	+16 38.7	1.174	2.120	11.7	18.5	10 8	23 18.74	-16 37.0	1.041	1.958	16.0	17.9
10 18	23 16.41	+15 23.5	1.231	2.133	14.9	18.7	10 18	23 14.04	-15 18.4	1.090	1.946	20.1	18.1
<b>4889</b>	<i>Praetorius</i>		9 16.5 273°76	1°2/18.0	18		<b>231923</b>	2001 <i>CY</i> <sub>32</sub>		9 16.5 107°32	6°2/10.5	18	
8 9	23 56.73	+ 5 38.1	2.427	3.223	12.9	17.5	8 9	0 8.30	-19 45.9	2.086	2.927	13.1	20.1
8 19	23 53.62	+ 4 57.9	2.321	3.205	10.3	17.3	8 19	0 2.48	-20 42.0	2.039	2.948	10.4	20.0
8 29	23 48.84	+ 4 1.5	2.236	3.187	7.3	17.1	8 29	23 54.62	-21 34.9	2.015	2.968	7.8	19.8
9 8	23 42.80	+ 2 51.2	2.177	3.168	3.9	16.9	9 8	23 45.38	-22 17.9	2.017	2.988	6.3	19.8
9 18	23 36.03	+ 1 31.1	2.146	3.149	1.2	16.6	9 18	23 35.64	-22 45.1	2.047	3.007	6.9	19.9
9 28	23 29.27	+ 0 7.1	2.144	3.130	4.0	16.8	9 28	23 26.36	-22 52.6	2.103	3.025	8.9	20.0
10 8	23 23.23	- 1 14.5	2.172	3.111	7.5	17.0	10 8	23 18.41	-22 39.6	2.185	3.043	11.4	20.2
10 18	23 18.53	- 2 27.7	2.225	3.092	10.7	17.2	10 18	23 12.39	-22 7.7	2.290	3.061	13.7	20.4
<b>227285</b>	2005 <i>SG</i> <sub>172</sub>		9 16.5 308°30	1°6/17.7	18		<b>270508</b>	2002 <i>FF</i> <sub>25</sub>		9 16.5 68°92	10°5/7.5	18	
8 9	0 0.12	+ 2 57.2	1.437	2.273	18.3	20.7	8 9	0 8.40	-27 51.0	1.620	2.473	15.8	19.5
8 19	23 57.49	+ 2 55.3	1.346	2.255	14.7	20.4	8 19	0 3.29	-29 13.3	1.584	2.487	13.2	19.3
8 29	23 52.14	+ 2 34.3	1.274	2.236	10.4	20.1	8 29	23 55.50	-30 24.9	1.568	2.501	11.3	19.3
9 8	23 44.59	+ 1 56.1	1.223	2.218	5.5	19.8	9 8	23 45.87	-31 15.3	1.576	2.515	10.5	19.3
9 18	23 35.71	+ 1 5.2	1.197	2.201	1.6	19.5	9 18	23 35.56	-31 37.1	1.607	2.529	11.4	19.3
9 28	23 26.79	+ 0 9.1	1.196	2.184	6.0	19.8	9 28	23 25.91	-31 26.8	1.661	2.543	13.3	19.5
10 8	23 19.16	- 0 43.5	1.219	2.167	11.1	20.0	10 8	23 18.03	-30 45.7	1.737	2.557	15.6	19.7
10 18	23 13.88	- 1 25.0	1.264	2.151	15.8	20.2	10 18	23 12.64	-29 38.4	1.831	2.571	17.7	19.9
<b>230682</b>	2003 <i>TR</i> <sub>20</sub>		9 16.5 332°88	3°5/19.6	17		<b>120269</b>	2004 <i>GE</i> <sub>75</sub>		9 16.5 52°36	6°4/13.1	16	
8 9	23 59.07	+ 7 10.9	1.886	2.687	15.9	19.8	8 9	0 14.33	-17 18.0	1.345	2.201	18.2	19.9
8 19	23 55.96	+ 7 37.4	1.790	2.672	13.0	19.6	8 19	0 8.11	-17 32.9	1.297	2.217	14.3	19.7
8 29	23 50.71	+ 7 48.2	1.714	2.657	9.7	19.3	8 29	23 58.82	-17 45.1	1.268	2.233	10.2	19.5
9 8	23 43.78	+ 7 43.4	1.661	2.643	6.1	19.1	9 8	23 47.43	-17 46.5	1.263	2.250	6.9	19.4
9 18	23 35.87	+ 7 24.5	1.634	2.630	3.6	18.9	9 18	23 35.29	-17 31.0	1.283	2.267	6.9	19.4
9 28	23 27.96	+ 6 55.2	1.633	2.617	5.1	19.0	9 28	23 23.97	-16 55.0	1.329	2.284	10.0	19.7
10 8	23 21.03	+ 6 21.4	1.658	2.605	8.7	19.2	10 8	23 14.77	-15 59.2	1.399	2.302	13.7	19.9
10 18	23 15.90	+ 5 48.7	1.707	2.594	12.4	19.4	10 18	23 8.44	-14 46.8	1.490	2.319	17.1	20.2
<b>396471</b>	2014 <i>FA</i> <sub>36</sub>		9 16.5 190°39	4°5/12.1	18		<b>317421</b>	2002 <i>PM</i> <sub>198</sub>		9 16.5 96°74	1°2/17.5	17	
8 9	0 6.30	-14 36.1	2.206	3.044	12.6	21.3	8 9	0 4.23	+ 3 54.2	1.558	2.377	17.9	21.6
8 19	0 1.04	-15 16.3	2.131	3.044	9.8	21.1	8 19	0 0.02	+ 3 28.0	1.496	2.394	14.1	21.4
8 29	23 53.78	-15 58.0	2.079	3.042	6.9	20.9	8 29	23 53.36	+ 2 42.6	1.453	2.411	9.8	21.2
9 8	23 45.07	-16 35.6	2.054	3.040	4.7	20.8	9 8	23 44.94	+ 1 42.0	1.433	2.428	5.0	20.9
9 18	23 35.67	-17 3.4	2.057	3.038	5.0	20.8	9 18	23 35.72	+ 0 32.2	1.440	2.444	1.2	20.7
9 28	23 26.48	-17 17.1	2.088	3.035	7.5	20.9	9 28	23 26.89	- 0 38.3	1.473	2.460	5.3	21.0
10 8	23 18.39	-17 14.2	2.146	3.032	10.4	21.1	10 8	23 19.52	- 1 41.7	1.533	2.475	9.8	21.3
10 18	23 12.06	-16 54.4	2.228	3.029	13.1	21.3	10 18	23 14.36	- 2 31.8	1.617	2.490	13.7	21.6
<b>311899</b>	2006 <												

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>99134</b>	2001 <i>FF</i> <sub>99</sub>		9 16.5 120°18	0°8/15.7 18			<b>465624</b>	2009 <i>HK</i> <sub>15</sub>		9 16.5 26°45	4°6/13.8 17		
8 9	0 1.85	- 1 31.9	2.102	2.924	13.7	20.4	8 9	0 6.30	-10 39.0	1.093	1.969	20.0	20.3
8 19	23 57.57	- 2 12.7	2.032	2.937	10.6	20.3	8 19	0 2.62	-11 1.5	1.041	1.976	15.5	20.0
8 29	23 51.43	- 3 4.8	1.986	2.950	7.1	20.1	8 29	23 55.59	-11 30.6	1.008	1.984	10.5	19.8
9 8	23 43.97	- 4 4.0	1.964	2.963	3.2	19.8	9 8	23 46.11	-11 58.0	0.995	1.992	5.8	19.5
9 18	23 35.90	- 5 4.8	1.972	2.975	1.2	19.7	9 18	23 35.56	-12 15.0	1.005	2.002	5.3	19.6
9 28	23 28.07	- 6 1.2	2.008	2.987	5.0	20.0	9 28	23 25.63	-12 14.6	1.039	2.012	9.5	19.8
10 8	23 21.30	- 6 48.1	2.071	2.998	8.6	20.3	10 8	23 17.79	-11 53.7	1.094	2.023	14.3	20.1
10 18	23 16.18	- 7 22.0	2.159	3.009	11.7	20.5	10 18	23 12.97	-11 12.9	1.170	2.034	18.5	20.4
<b>47860</b>	2000 <i>EX</i> <sub>163</sub>		9 16.5 349°37	1°0/15.8 18			<b>515303</b>	2012 <i>UT</i> <sub>132</sub>		9 16.5 317°24	2°7/14.1 18		
8 9	0 0.65	- 3 43.1	1.441	2.295	17.3	17.7	8 9	23 57.64	- 4 50.2	1.472	2.333	16.6	21.1
8 19	23 57.67	- 3 47.0	1.366	2.288	13.5	17.5	8 19	23 55.43	- 5 41.3	1.386	2.314	13.0	20.8
8 29	23 52.07	- 4 2.6	1.310	2.282	9.1	17.2	8 29	23 50.68	- 6 47.7	1.320	2.295	8.7	20.5
9 8	23 44.46	- 4 25.9	1.277	2.277	4.2	16.9	9 8	23 43.89	- 8 3.1	1.277	2.277	4.2	20.2
9 18	23 35.79	- 4 51.5	1.269	2.273	1.5	16.7	9 18	23 35.92	- 9 18.9	1.259	2.259	3.4	20.1
9 28	23 27.32	- 5 12.7	1.286	2.269	6.4	17.0	9 28	23 27.98	-10 25.2	1.267	2.242	7.8	20.3
10 8	23 20.25	- 5 24.0	1.327	2.267	11.2	17.3	10 8	23 21.30	-11 14.0	1.298	2.226	12.5	20.5
10 18	23 15.48	- 5 21.7	1.390	2.265	15.4	17.5	10 18	23 16.82	-11 40.4	1.350	2.210	16.7	20.8
<b>233340</b>	2006 <i>DA</i> <sub>10</sub>		9 16.5 29°32	4°4/12.7 18			<b>201754</b>	2003 <i>UN</i> <sub>359</sub>		9 16.5 51°92	0°5/15.9 18		
8 9	23 59.09	- 8 37.5	1.365	2.236	17.1	19.3	8 9	0 0.62	- 0 47.8	1.664	2.501	16.1	20.7
8 19	23 56.38	- 9 46.6	1.312	2.245	13.1	19.1	8 19	23 57.16	- 1 20.7	1.596	2.508	12.6	20.5
8 29	23 51.08	-11 5.4	1.279	2.255	8.8	18.9	8 29	23 51.44	- 2 8.1	1.549	2.516	8.4	20.2
9 8	23 43.91	-12 24.9	1.269	2.266	5.0	18.7	9 8	23 44.07	- 3 5.3	1.526	2.525	3.8	20.0
9 18	23 35.91	-13 35.4	1.284	2.277	5.2	18.8	9 18	23 35.92	- 4 5.9	1.529	2.533	1.1	19.8
9 28	23 28.31	-14 27.9	1.324	2.289	8.9	19.0	9 28	23 28.05	- 5 2.6	1.559	2.542	5.6	20.1
10 8	23 22.25	-14 57.3	1.387	2.302	12.9	19.3	10 8	23 21.45	- 5 48.9	1.615	2.551	9.9	20.4
10 18	23 18.47	-15 2.2	1.470	2.315	16.5	19.5	10 18	23 16.83	- 6 20.4	1.694	2.560	13.6	20.7
<b>472622</b>	2015 <i>DB</i> <sub>181</sub>		9 16.5 40°15	4°9/12.6 17			<b>50670</b>	2000 <i>EY</i> <sub>105</sub>		9 16.5 211°11	4°5/12.4 18		
8 9	0 2.65	-10 6.6	1.369	2.236	17.3	20.4	8 9	0 3.72	-10 39.6	1.707	2.560	15.1	19.3
8 19	23 59.24	-11 9.5	1.310	2.241	13.3	20.2	8 19	23 59.66	-11 41.4	1.634	2.557	11.7	19.1
8 29	23 53.07	-12 21.0	1.272	2.246	9.1	20.0	8 29	23 53.20	-12 50.5	1.584	2.554	8.0	18.9
9 8	23 44.89	-13 31.9	1.256	2.251	5.4	19.8	9 8	23 44.94	-13 59.2	1.558	2.551	4.9	18.7
9 18	23 35.75	-14 32.6	1.265	2.256	5.6	19.8	9 18	23 35.76	-14 59.6	1.558	2.547	5.2	18.7
9 28	23 27.00	-15 14.5	1.299	2.262	9.3	20.1	9 28	23 26.81	-15 44.0	1.586	2.543	8.4	18.9
10 8	23 19.86	-15 32.8	1.357	2.268	13.4	20.3	10 8	23 19.14	-16 7.8	1.638	2.539	12.1	19.1
10 18	23 15.17	-15 26.7	1.434	2.274	17.1	20.6	10 18	23 13.58	-16 9.6	1.712	2.535	15.5	19.3
<b>453442</b>	2009 <i>QH</i> <sub>53</sub>		9 16.5 66°22	1°5/17.9 18			<b>126859</b>	2002 <i>ET</i> <sub>78</sub>		9 16.5 210°15	1°5/18.4 18		
8 9	0 2.25	+ 2 55.0	2.190	2.992	13.9	21.6	8 9	23 57.90	+ 5 57.7	2.378	3.171	13.2	20.0
8 19	23 57.87	+ 3 1.7	2.113	3.001	11.1	21.4	8 19	23 54.47	+ 5 27.5	2.287	3.169	10.6	19.8
8 29	23 51.64	+ 2 56.5	2.057	3.009	7.7	21.2	8 29	23 49.38	+ 4 41.9	2.217	3.166	7.5	19.6
9 8	23 44.09	+ 2 41.0	2.027	3.018	4.2	21.0	9 8	23 43.06	+ 3 43.4	2.174	3.163	4.1	19.4
9 18	23 35.90	+ 2 18.1	2.024	3.027	1.5	20.8	9 18	23 36.10	+ 2 35.6	2.158	3.160	1.5	19.2
9 28	23 27.90	+ 1 51.9	2.050	3.036	4.1	21.0	9 28	23 29.24	+ 1 24.1	2.171	3.157	3.9	19.3
10 8	23 20.88	+ 1 26.7	2.104	3.044	7.6	21.3	10 8	23 23.18	+ 0 14.9	2.212	3.154	7.3	19.5
10 18	23 15.48	+ 1 6.5	2.183	3.053	10.8	21.5	10 18	23 18.52	- 0 46.9	2.280	3.150	10.4	19.7
<b>195701</b>	2002 <i>PH</i> <sub>28</sub>		9 16.5 312°93	4°4/21.2 18			<b>447236</b>	2005 <i>US</i> <sub>165</sub>		9 16.5 305°28	0°7/15.8 18		
8 9	23 59.16	+12 1.3	2.298	3.060	14.5	19.9	8 9	23 59.81	- 2 30.8	2.008	2.840	13.9	21.5
8 19	23 55.62	+12 22.7	2.200	3.051	12.1	19.7	8 19	23 56.32	- 2 52.9	1.918	2.829	10.9	21.3
8 29	23 50.26	+12 27.8	2.123	3.043	9.4	19.5	8 29	23 50.82	- 3 26.0	1.850	2.817	7.3	21.0
9 8	23 43.51	+12 16.0	2.069	3.035	6.6	19.3	9 8	23 43.81	- 4 6.4	1.808	2.807	3.4	20.8
9 18	23 35.99	+11 48.6	2.041	3.026	4.5	19.2	9 18	23 35.97	- 4 49.5	1.792	2.796	1.2	20.6
9 28	23 28.49	+11 8.9	2.041	3.019	5.1	19.2	9 28	23 28.21	- 5 29.7	1.804	2.785	5.2	20.8
10 8	23 21.82	+10 21.8	2.068	3.011	7.6	19.3	10 8	23 21.42	- 6 1.6	1.843	2.775	9.1	21.1
10 18	23 16.65	+ 9 33.1	2.120	3.003	10.5	19.5	10 18	23 16.31	- 6 21.6	1.906	2.765	12.6	21.3
<b>239123</b>	2006 <i>HF</i> <sub>114</sub>		9 16.5 69°54	7°1/10.4 18			<b>224937</b>	2007 <i>DB</i> <sub>65</sub>		9 16.5 281°38	0°2/16.6 18		
8 9	0 6.51	-19 29.2	1.705	2.561	14.9	19.7	8 9	0 1.52	+ 0 39.6	1.601	2.434	16.8	21.5
8 19	0 1.57	-20 30.1	1.659	2.577	11.8	19.6	8 19	23 58.28	+ 0 17.5	1.509	2.419	13.4	21.3
8 29	23 54.25	-21 28.0	1.636	2.593	8.9	19.4	8 29	23 52.51	- 0 21.6	1.438	2.403	9.2	21.0
9 8	23 45.29	-22 14.5	1.637	2.610	7.2	19.4	9 8	23 44.74	- 1 14.3	1.390	2.387	4.4	20.7
9 18	23 35.71	-22 42.6	1.663	2.627	7.8	19.5	9 18	23 35.79	- 2 15.0	1.367	2.372	0.7	20.4
9 28	23 26.65	-22 47.6	1.715	2.643	10.2	19.6	9 28	23 26.86	- 3 16.0	1.371	2.356	5.9	20.7
10 8	23 19.13	-22 28.9	1.791	2.660	13.0	19.9	10 8	23 19.12	- 4 9.1	1.400	2.340	10.8	21.0
10 18	23 13.81	-21 48.5	1.888	2.676	15.6	20.1	10 18	23 13.53	- 4 48.2	1.452	2.324	15.1	21.2
<b>48612</b>	1995 <i>FX</i> <sub>6</sub>		9 16.5 224°31	1°0/15.2 18			<b>294500</b>	2007 <i>WC</i> <sub>59</sub>		9 16.5 6°61	4°6/12.1 18		
8 9	23 58.66	- 1 5.4	2.196	3.021	13.1	19.8	8 9	0 1.14	-11 54.1	1.766	2.623	14.4	20.6
8 19	23 55.21	- 2 5.3	2.108	3.015	10.2	19.6	8 19	23 57.52	-12 50.8	1.699	2.624	11.2	20.4
8 29	23 49.96	- 3 18.6	2.042	3.008	6.8	19.4	8 29	23 51.67	-13 52.8	1.653	2.624	7.7	20.2
9 8	23 43.35	- 4 40.7	2.003	3.002	3.1	19.1	9 8	23 44.19	-14 52.7	1.633	2.624	5.0	20.1
9 18	23 36.03	- 6 5.6	1.992	2.995	1.5	19.0	9 18	23 35.93	-15 43.3	1.639	2.625	5.3	20.1
9 28	23 28.80	- 7 26.3	2.010	2.987	5.2	19.2	9 28	23 27.91	-16 18.1	1.671	2.626	8.3	20.3
10 8	23 22.44	- 8 36.4	2.056	2.980	8.8	19.4	10 8	23 21.13	-16 33.0	1.728	2.628	11.7	20.5
10 18	23 17.60	- 9 31.5	2.127	2.972	12.0	19.6	10 18	23 16.29	-16 27.3	1.806	2.629	14.8	20.7
<b>371386</b>	2006 <i>RE</i>												

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>514710</b>	2006 <i>SB</i> <sub>230</sub>		9 16.5 334°55	1.2°/17.6	18		<b>386762</b>	2010 <i>CE</i> <sub>102</sub>		9 16.5 243°83	0.3°/16.8	18	
8 9	0 2.13	+ 2 11.1	1.949	2.762	15.0	21.7	8 9	0 3.10	+ 0 10.7	1.790	2.614	15.7	22.0
8 19	23 58.12	+ 2 11.1	1.866	2.761	11.9	21.5	8 19	23 59.10	- 0 1.8	1.706	2.610	12.4	21.8
8 29	23 52.02	+ 1 57.8	1.803	2.760	8.3	21.3	8 29	23 52.82	- 0 28.1	1.643	2.606	8.5	21.5
9 8	23 44.37	+ 1 33.3	1.765	2.759	4.3	21.0	9 8	23 44.81	- 1 4.9	1.605	2.602	4.1	21.3
9 18	23 35.91	+ 1 1.1	1.754	2.758	1.2	20.8	9 18	23 35.88	- 1 47.7	1.593	2.597	0.6	21.0
9 28	23 27.59	+ 0 26.2	1.771	2.757	4.6	21.0	9 28	23 27.08	- 2 30.3	1.609	2.593	5.2	21.3
10 8	23 20.33	- 0 6.1	1.815	2.757	8.6	21.3	10 8	23 19.44	- 3 6.7	1.651	2.589	9.5	21.6
10 18	23 14.86	- 0 31.1	1.884	2.756	12.1	21.5	10 18	23 13.77	- 3 32.3	1.717	2.584	13.4	21.8
<b>428597</b>	2008 <i>EX</i> <sub>70</sub>		9 16.5 158°02	1.5°/15.1	17		<b>353184</b>	2009 <i>RQ</i> <sub>64</sub>		9 16.5 250°35	0.2°/16.2	18	
8 9	0 4.05	- 2 48.5	1.759	2.592	15.6	22.2	8 9	23 52.34	- 1 42.2	4.661	5.467	7.0	21.5
8 19	23 59.77	- 3 34.1	1.686	2.597	12.1	22.0	8 19	23 49.35	- 2 3.4	4.565	5.461	5.4	21.4
8 29	23 53.19	- 4 32.7	1.634	2.602	8.0	21.8	8 29	23 45.55	- 2 29.5	4.494	5.455	3.6	21.3
9 8	23 44.93	- 5 39.0	1.607	2.606	3.7	21.6	9 8	23 41.18	- 2 59.0	4.452	5.449	1.7	21.1
9 18	23 35.83	- 6 46.1	1.608	2.610	2.0	21.5	9 18	23 36.53	- 3 29.8	4.439	5.443	0.4	21.0
9 28	23 26.98	- 7 46.4	1.636	2.613	6.1	21.7	9 28	23 31.92	- 3 59.9	4.456	5.437	2.4	21.2
10 8	23 19.38	- 8 33.8	1.691	2.616	10.3	22.0	10 8	23 27.68	- 4 27.2	4.503	5.431	4.3	21.3
10 18	23 13.79	- 9 4.4	1.769	2.618	13.9	22.2	10 18	23 24.08	- 4 49.9	4.578	5.424	6.0	21.4
<b>472264</b>	2014 <i>SF</i> <sub>128</sub>		9 16.5 177°42	1.6°/17.7	17		<b>189353</b>	2008 <i>CG</i> <sub>198</sub>		9 16.5 155°59	0.4°/16.9	18	
8 9	0 8.62	+ 2 50.2	1.520	2.337	18.4	22.2	8 9	0 0.24	+ 1 12.5	2.299	3.110	13.1	21.1
8 19	0 3.80	+ 2 51.1	1.442	2.339	14.7	22.0	8 19	23 56.29	+ 0 49.7	2.217	3.112	10.3	21.0
8 29	23 56.20	+ 2 34.6	1.383	2.340	10.3	21.7	8 29	23 50.61	+ 0 14.9	2.156	3.115	7.0	20.8
9 8	23 46.44	+ 2 3.0	1.347	2.341	5.4	21.4	9 8	23 43.67	+ 0 28.8	2.122	3.118	3.4	20.5
9 18	23 35.56	+ 1 20.8	1.337	2.341	1.6	21.2	9 18	23 36.09	- 1 17.6	2.116	3.120	0.6	20.3
9 28	23 24.88	+ 0 34.7	1.355	2.341	5.7	21.5	9 28	23 28.66	- 2 6.5	2.138	3.122	4.2	20.6
10 8	23 15.71	- 0 7.7	1.398	2.340	10.6	21.7	10 8	23 22.12	- 2 50.3	2.189	3.124	7.7	20.8
10 18	23 8.99	- 0 40.3	1.464	2.338	14.9	22.0	10 18	23 17.06	- 3 25.3	2.265	3.126	10.8	21.0
<b>285233</b>	1997 <i>SN</i> <sub>22</sub>		9 16.5 217°07	0.2°/16.8	17		<b>801111</b>	1999 <i>RK</i> <sub>42</sub>		9 16.5 293°17	8.7°/25.8	18	
8 9	23 56.83	- 0 7.4	3.712	4.510	8.8	21.7	8 9	23 56.28	+ 23 51.9	1.568	2.297	21.4	18.9
8 19	23 52.99	- 0 20.4	3.615	4.504	6.9	21.6	8 19	23 54.58	+ 23 47.6	1.461	2.275	19.0	18.7
8 29	23 48.08	- 0 40.1	3.542	4.498	4.7	21.4	8 29	23 50.28	+ 23 6.6	1.368	2.252	16.0	18.4
9 8	23 42.39	- 1 4.7	3.496	4.492	2.2	21.2	9 8	23 43.82	+ 21 43.6	1.293	2.229	12.6	18.1
9 18	23 36.29	- 1 31.9	3.480	4.485	0.4	21.0	9 18	23 36.03	+ 19 37.5	1.241	2.206	9.6	17.9
9 28	23 30.25	- 1 59.3	3.495	4.478	2.8	21.3	9 28	23 28.11	+ 16 54.1	1.213	2.184	8.8	17.8
10 8	23 24.71	- 2 24.2	3.540	4.471	5.2	21.4	10 8	23 21.38	+ 13 47.1	1.211	2.161	11.0	17.9
10 18	23 20.04	- 2 44.3	3.611	4.464	7.4	21.6	10 18	23 16.92	+ 10 33.8	1.234	2.139	14.8	18.0
<b>409191</b>	2003 <i>UC</i> <sub>327</sub>		9 16.5 41°87	2.5°/19.7	18		<b>296671</b>	2009 <i>SP</i> <sub>170</sub>		9 16.5 314°26	0.9°/18.3	18	
8 9	23 55.89	+ 10 0.6	2.163	2.947	14.6	21.2	8 9	23 52.48	+ 3 53.8	4.318	5.102	7.8	21.1
8 19	23 53.06	+ 9 21.8	2.081	2.953	11.9	21.1	8 19	23 49.52	+ 3 39.7	4.221	5.099	6.2	20.9
8 29	23 48.49	+ 8 23.2	2.020	2.959	8.7	20.9	8 29	23 45.70	+ 3 18.4	4.148	5.095	4.4	20.8
9 8	23 42.68	+ 7 7.3	1.983	2.966	5.3	20.7	9 8	23 41.27	+ 2 51.2	4.103	5.092	2.4	20.7
9 18	23 36.24	+ 5 38.6	1.973	2.972	2.6	20.5	9 18	23 36.52	+ 2 20.0	4.086	5.088	0.9	20.5
9 28	23 29.96	+ 4 3.6	1.992	2.979	4.1	20.6	9 28	23 31.83	+ 1 46.9	4.100	5.085	2.3	20.7
10 8	23 24.59	+ 2 30.0	2.040	2.986	7.4	20.9	10 8	23 27.52	+ 1 14.3	4.143	5.082	4.3	20.8
10 18	23 20.70	+ 1 4.5	2.113	2.993	10.6	21.1	10 18	23 23.93	+ 0 44.5	4.214	5.079	6.1	20.9
<b>339391</b>	2005 <i>BC</i> <sub>21</sub>		9 16.5 259°47	2.8°/13.8	18		<b>478788</b>	2012 <i>UX</i> <sub>140</sub>		9 16.5 6°65	1.9°/18.1	18	
8 9	0 1.75	- 7 8.4	1.896	2.740	14.2	21.0	8 9	23 46.59	+ 5 1.3	0.884	1.769	22.9	19.7
8 19	23 57.97	- 7 55.1	1.811	2.729	11.0	20.8	8 19	23 47.75	+ 4 44.3	0.834	1.769	18.3	19.4
8 29	23 52.02	- 8 51.2	1.748	2.719	7.3	20.5	8 29	23 45.89	+ 3 55.9	0.799	1.773	12.9	19.1
9 8	23 44.42	- 9 51.0	1.710	2.708	3.8	20.3	9 8	23 41.74	+ 2 41.0	0.782	1.779	6.8	18.8
9 18	23 35.93	- 10 48.0	1.700	2.696	3.4	20.2	9 18	23 36.43	+ 1 9.3	0.784	1.789	1.9	18.6
9 28	23 27.53	- 11 35.3	1.716	2.685	6.8	20.4	9 28	23 31.50	- 0 24.8	0.808	1.800	6.6	18.9
10 8	23 20.20	- 12 7.7	1.759	2.674	10.6	20.6	10 8	23 28.31	- 1 47.1	0.852	1.815	12.4	19.3
10 18	23 14.72	- 12 22.2	1.825	2.662	14.1	20.8	10 18	23 27.74	- 2 47.8	0.916	1.832	17.4	19.6
<b>47656</b>	2000 <i>CD</i> <sub>48</sub>		9 16.5 263°18	3.4°/19.9	18		<b>12084</b>	Unno		9 16.5 114°31	3.3°/20.3	18	
8 9	0 0.59	+ 8 59.7	1.994	2.780	15.6	19.0	8 9	23 59.59	+ 11 37.5	1.894	2.673	16.6	17.8
8 19	23 57.02	+ 9 2.8	1.900	2.771	12.9	18.8	8 19	23 56.19	+ 11 6.7	1.816	2.682	13.6	17.6
8 29	23 51.37	+ 8 47.9	1.825	2.763	9.6	18.5	8 29	23 50.73	+ 10 12.9	1.756	2.690	10.1	17.4
9 8	23 44.12	+ 8 15.4	1.774	2.754	6.1	18.3	9 8	23 43.78	+ 8 58.0	1.720	2.699	6.4	17.2
9 18	23 35.98	+ 7 27.9	1.749	2.745	3.5	18.1	9 18	23 36.08	+ 7 26.6	1.711	2.707	3.5	17.1
9 28	23 27.87	+ 6 30.3	1.752	2.737	4.9	18.2	9 28	23 28.59	+ 5 46.3	1.730	2.715	4.8	17.2
10 8	23 20.75	+ 5 29.4	1.782	2.728	8.4	18.4	10 8	23 22.21	+ 4 6.0	1.776	2.723	8.3	17.4
10 18	23 15.36	+ 4 31.7	1.837	2.719	11.9	18.6	10 18	23 17.61	+ 2 33.8	1.848	2.731	11.8	17.6
<b>449932</b>	2015 <i>OM</i> <sub>24</sub>		9 16.5 53°68	0.6°/17.1	15		<b>451800</b>	2013 <i>HJ</i> <sub>29</sub>		9 16.5 65°65	3.9°/20.9	18	
8 9	0 0.35	+ 2 4.6	1.711	2.537	16.2	21.2	8 9	23 59.30	+ 11 35.0	2.203	2.970	14.9	21.5
8 19	23 56.84	+ 1 38.7	1.648	2.552	12.7	21.0	8 19	23 55.71	+ 11 40.6	2.119	2.976	12.3	21.3
8 29	23 51.16	+ 0 56.8	1.605	2.567	8.7	20.8	8 29	23 50.30	+ 11 28.4	2.056	2.981	9.4	21.2
9 8	23 43.95	+ 0 2.8	1.586	2.582	4.2	20.5	9 8	23 43.55	+ 10 58.8	2.016	2.987	6.3	21.0
9 18	23 36.03	- 0 57.5	1.593	2.598	0.7	20.3	9 18	23 36.13	+ 10 14.1	2.002	2.992	4.1	20.9
9 28	23 28.43	- 1 57.2	1.628	2.614	5.0	20.7	9 28	23 28.83	+ 9 18.7	2.017	2.998	4.8	20.9
10 8	23 22.08	- 2 49.5	1.689	2.630	9.1	20.9	10 8	23 22.47	+ 8 18.5	2.058	3.003	7.5	21.1
10 18	23 17.65	- 3 29.5	1.773	2.646	12.8	21.2	10 18	23 17.66	+ 7 19.7	2.126	3.009	10.5	21.3
<b>122172</b>	2000 <i>KJ</i> <sub>18</sub>		9 16.5 40°17	6.9°/12.1	18		<b>2209</b>						

EPHEMERIDES

9 16.5

9 16.5

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>480165</b>	2015 <i>FM</i> <sub>300</sub>		9 16.5 36°60	8°6/ 8.5 18			<b>308673</b>	2006 <i>DL</i> <sub>3</sub>		9 16.5 189°58	3°8/20.6 17		
8 9	0 0.45	-18 50.1	1.405	2.282	16.3	19.6	8 9	0 4.18	+10 15.7	2.632	3.384	13.1	21.0
8 19	23 57.46	-20 35.2	1.364	2.294	13.0	19.4	8 19	23 59.22	+10 48.9	2.537	3.383	10.9	20.8
8 29	23 51.83	-22 18.8	1.344	2.306	10.0	19.3	8 29	23 52.55	+11 9.3	2.463	3.383	8.3	20.7
9 8	23 44.32	-23 49.0	1.347	2.318	8.6	19.3	9 8	23 44.60	+11 16.6	2.415	3.382	5.7	20.5
9 18	23 36.01	-24 55.5	1.373	2.331	9.7	19.4	9 18	23 35.96	+11 11.4	2.395	3.381	3.9	20.4
9 28	23 28.18	-25 31.3	1.424	2.345	12.4	19.6	9 28	23 27.38	+10 56.0	2.404	3.380	4.5	20.4
10 8	23 21.97	-25 34.8	1.495	2.359	15.4	19.8	10 8	23 19.58	+10 34.1	2.441	3.378	6.9	20.6
10 18	23 18.11	-25 8.5	1.585	2.374	18.1	20.0	10 18	23 13.19	+10 9.8	2.505	3.377	9.5	20.8
<b>25260</b>	1998 <i>VN</i> <sub>5</sub>		9 16.5 308°90	2°8/13.8 18			<b>184009</b>	2004 <i>EJ</i> <sub>95</sub>		9 16.5 216°26	4°8/12.3 18		
8 9	0 2.12	-9 35.7	2.139	2.980	12.9	18.1	8 9	0 4.78	-11 33.2	1.671	2.524	15.3	20.2
8 19	23 57.99	-9 57.6	2.052	2.968	10.0	17.9	8 19	0 0.58	-12 31.7	1.598	2.521	11.9	19.9
8 29	23 51.90	-10 24.4	1.987	2.956	6.7	17.7	8 29	23 53.89	-13 36.6	1.548	2.517	8.2	19.7
9 8	23 44.33	-10 51.6	1.948	2.944	3.6	17.4	9 8	23 45.34	-14 40.2	1.522	2.513	5.2	19.5
9 18	23 35.99	-11 14.5	1.937	2.933	3.2	17.4	9 18	23 35.84	-15 34.4	1.522	2.509	5.5	19.6
9 28	23 27.76	-11 28.5	1.954	2.922	6.2	17.6	9 28	23 26.56	-16 11.6	1.548	2.505	8.7	19.7
10 8	23 20.50	-11 30.1	1.997	2.911	9.6	17.8	10 8	23 18.63	-16 27.8	1.600	2.500	12.4	20.0
10 18	23 14.90	-11 17.9	2.064	2.900	12.7	17.9	10 18	23 12.87	-16 21.7	1.673	2.495	15.8	20.2
<b>53467</b>	2000 <i>AD</i> <sub>1</sub>		9 16.5 104°48	3°2/19.3 18			<b>510202</b>	2011 <i>CC</i> <sub>79</sub>		9 16.5 235°29	1°0/17.5 18		
8 9	0 4.96	+7 15.6	1.640	2.440	17.9	19.2	8 9	0 2.49	+3 24.5	1.809	2.623	16.0	22.2
8 19	0 0.66	+7 25.0	1.568	2.450	14.5	19.0	8 19	23 58.71	+2 59.6	1.717	2.613	12.8	22.0
8 29	23 53.90	+7 15.0	1.515	2.460	10.6	18.8	8 29	23 52.64	+2 17.1	1.645	2.603	8.9	21.8
9 8	23 45.31	+6 46.6	1.485	2.470	6.4	18.6	9 8	23 44.79	+1 19.6	1.597	2.592	4.6	21.5
9 18	23 35.83	+6 3.4	1.481	2.480	3.3	18.4	9 18	23 35.93	+0 12.2	1.576	2.581	1.0	21.2
9 28	23 26.61	+5 11.5	1.503	2.489	5.3	18.6	9 28	23 27.11	-0 58.0	1.583	2.569	5.1	21.5
10 8	23 18.77	+4 18.4	1.552	2.498	9.4	18.9	10 8	23 19.38	-2 3.3	1.617	2.557	9.5	21.7
10 18	23 13.09	+3 30.9	1.625	2.507	13.2	19.1	10 18	23 13.59	-2 57.3	1.675	2.544	13.5	21.9
<b>422024</b>	2014 <i>QT</i> <sub>341</sub>		9 16.5 55°88	0°1/16.5 18			<b>151377</b>	2002 <i>EY</i> <sub>27</sub>		9 16.5 243°71	1°2/15.2 18		
8 9	23 59.29	-0 0.2	2.148	2.969	13.5	21.6	8 9	0 0.36	-4 7.9	2.271	3.099	12.6	20.2
8 19	23 55.61	-0 24.0	2.078	2.980	10.6	21.4	8 19	23 56.46	-4 36.7	2.186	3.096	9.8	20.0
8 29	23 50.15	-0 59.4	2.030	2.992	7.1	21.2	8 29	23 50.78	-5 14.4	2.125	3.092	6.5	19.8
9 8	23 43.45	-1 42.8	2.007	3.004	3.3	21.0	9 8	23 43.79	-5 57.0	2.089	3.088	3.0	19.6
9 18	23 36.16	-2 30.0	2.012	3.016	0.6	20.8	9 18	23 36.13	-6 40.1	2.082	3.084	1.6	19.4
9 28	23 29.09	-3 15.6	2.045	3.028	4.4	21.1	9 28	23 28.58	-7 18.6	2.103	3.080	5.0	19.7
10 8	23 23.00	-3 54.7	2.105	3.041	8.0	21.4	10 8	23 21.93	-7 48.2	2.151	3.076	8.4	19.9
10 18	23 18.46	-4 23.9	2.191	3.053	11.1	21.6	10 18	23 16.79	-8 6.0	2.225	3.072	11.5	20.1
<b>475933</b>	2007 <i>EL</i> <sub>92</sub>		9 16.5 121°10	1°5/15.1 17			<b>172710</b>	2004 <i>BD</i> <sub>49</sub>		9 16.5 308°40	3°3/13.3 18		
8 9	0 3.93	-3 27.0	1.793	2.626	15.3	22.1	8 9	23 58.94	-7 17.0	1.690	2.546	15.0	20.6
8 19	23 59.55	-4 8.2	1.726	2.637	11.8	21.9	8 19	23 56.10	-8 13.0	1.606	2.531	11.7	20.4
8 29	23 52.98	-5 1.0	1.680	2.648	7.8	21.7	8 29	23 50.96	-9 20.3	1.542	2.516	7.8	20.1
9 8	23 44.82	-6 0.0	1.660	2.659	3.6	21.5	9 8	23 44.01	-10 32.2	1.503	2.501	4.2	19.9
9 18	23 35.92	-6 58.9	1.667	2.669	2.0	21.4	9 18	23 36.08	-11 41.0	1.491	2.486	4.0	19.8
9 28	23 27.32	-7 50.8	1.701	2.678	6.0	21.7	9 28	23 28.20	-12 38.3	1.504	2.472	7.7	20.0
10 8	23 19.98	-8 30.1	1.762	2.688	9.9	21.9	10 8	23 21.47	-13 17.7	1.542	2.458	11.8	20.2
10 18	23 14.60	-8 53.7	1.847	2.697	13.4	22.2	10 18	23 16.71	-13 36.0	1.602	2.445	15.4	20.4
<b>356852</b>	2011 <i>WY</i> <sub>24</sub>		9 16.5 318°66	4°1/12.7 18			<b>305862</b>	2009 <i>EV</i> <sub>24</sub>		9 16.5 359°93	0°4/16.2 18		
8 9	23 59.22	-9 51.4	1.686	2.547	14.9	20.8	8 9	23 59.86	-0 54.8	1.703	2.540	15.8	20.8
8 19	23 56.32	-10 45.1	1.605	2.532	11.5	20.6	8 19	23 56.64	-1 18.2	1.627	2.539	12.4	20.6
8 29	23 51.08	-11 47.1	1.544	2.517	7.9	20.3	8 29	23 51.19	-1 55.6	1.571	2.538	8.3	20.4
9 8	23 44.05	-12 50.7	1.508	2.503	4.7	20.1	9 8	23 44.06	-2 42.8	1.539	2.538	3.9	20.1
9 18	23 36.04	-13 48.0	1.497	2.489	4.8	20.1	9 18	23 36.08	-3 34.4	1.534	2.538	0.9	19.9
9 28	23 28.12	-14 31.3	1.513	2.476	8.2	20.2	9 28	23 28.28	-4 23.3	1.555	2.539	5.5	20.2
10 8	23 21.37	-14 55.2	1.553	2.463	12.1	20.4	10 8	23 21.67	-5 3.4	1.602	2.540	9.8	20.5
10 18	23 16.62	-14 57.6	1.614	2.451	15.6	20.6	10 18	23 17.00	-5 30.1	1.672	2.541	13.6	20.7
<b>13916</b>	Bernolák		9 16.5 33°69	5°1/20.2 18			<b>73630</b>	4352 <i>T</i> <sub>-3</sub>		9 16.5 25°97	4°9/12.4 18		
8 9	0 2.73	+8 36.4	1.111	1.942	22.8	17.0	8 9	0 4.49	-13 12.6	1.727	2.581	14.9	18.7
8 19	23 59.70	+9 14.8	1.064	1.961	18.6	16.8	8 19	0 0.18	-13 56.5	1.660	2.582	11.6	18.5
8 29	23 53.56	+9 26.7	1.032	1.982	13.8	16.5	8 29	23 53.51	-14 43.8	1.615	2.584	8.0	18.3
9 8	23 45.20	+9 12.2	1.021	2.004	8.8	16.4	9 8	23 45.12	-15 27.5	1.595	2.585	5.2	18.1
9 18	23 35.87	+8 35.2	1.031	2.027	5.2	16.2	9 18	23 35.90	-16 0.6	1.601	2.587	5.5	18.1
9 28	23 27.12	+7 43.9	1.064	2.051	6.8	16.4	9 28	23 26.99	-16 17.3	1.633	2.588	8.4	18.3
10 8	23 20.32	+6 48.6	1.120	2.075	11.1	16.7	10 8	23 19.42	-16 14.7	1.690	2.590	11.9	18.5
10 18	23 16.29	+5 58.7	1.198	2.101	15.3	17.0	10 18	23 13.94	-15 52.5	1.769	2.592	15.1	18.7
<b>111571</b>	2002 <i>AD</i> <sub>13</sub>		9 16.5 253°23	0°4/15.7 16			<b>290838</b>	2005 <i>WD</i> <sub>17</sub>		9 16.5 344°51	1°2/17.7 18		
8 9	23 52.52	-2 36.7	4.346	5.158	7.4	20.3	8 9	23 58.06	+3 7.5	1.857	2.678	15.3	20.6
8 19	23 49.55	-3 3.3	4.256	5.155	5.7	20.2	8 19	23 55.12	+2 55.0	1.773	2.673	12.2	20.4
8 29	23 45.72	-3 34.9	4.190	5.153	3.8	20.0	8 29	23 50.11	+2 26.7	1.709	2.668	8.5	20.2
9 8	23 41.28	-4 9.8	4.152	5.150	1.7	19.9	9 8	23 43.55	+1 45.4	1.669	2.663	4.5	19.9
9 18	23 36.55	-4 45.6	4.144	5.148	0.6	19.8	9 18	23 36.17	+0 55.1	1.655	2.659	1.2	19.7
9 28	23 31.87	-5 20.0	4.166	5.145	2.7	19.9	9 28	23 28.89	+0 2.0	1.669	2.656	4.7	19.9
10 8	23 27.59	-5 50.6	4.218	5.143	4.7	20.1	10 8	23 22.66	-0 47.5	1.709	2.653	8.8	20.2
10 18	23 24.01	-6 15.6	4.297	5.140	6.5	20.2	10 18	23 18.18	-1 27.8	1.773	2.651	12.5	20.4
<b>49886</b>	1999 <i>XX</i> <sub>151</sub>		9 16.5 195°48	0°5/17.0 18			<b>452435</b>	2003 <i>GB</i>		9 16.5 77°87	2°7/20.7 15		
8 9	0 4.48	+1 38.6	1.										



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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>339364</b>	2005 <i>AE</i> <sub>44</sub>		9 16.5 160°29	1°3/15.3	18		<b>46192</b>	2001 <i>FG</i> <sub>141</sub>		9 16.5 12°32	0°4/16.1	18	
8 9	0 2.44	- 3 29.7	2.016	2.845	14.0	21.2	8 9	23 57.17	+ 1 32.7	1.635	2.472	16.4	19.1
8 19	23 58.25	- 4 3.3	1.939	2.848	10.8	21.0	8 19	23 54.64	+ 0 35.7	1.561	2.473	12.8	18.9
8 29	23 52.06	- 4 47.4	1.884	2.851	7.2	20.8	8 29	23 49.89	- 0 40.3	1.507	2.474	8.6	18.6
9 8	23 44.41	- 5 37.4	1.855	2.854	3.3	20.5	9 8	23 43.48	- 2 10.0	1.478	2.476	4.0	18.4
9 18	23 36.03	- 6 28.1	1.853	2.856	1.7	20.4	9 18	23 36.23	- 3 45.6	1.474	2.478	1.0	18.2
9 28	23 27.84	- 7 13.5	1.880	2.858	5.4	20.7	9 28	23 29.17	- 5 17.6	1.498	2.481	5.7	18.5
10 8	23 20.71	- 7 48.6	1.934	2.859	9.2	20.9	10 8	23 23.30	- 6 37.4	1.547	2.484	10.2	18.8
10 18	23 15.32	- 8 10.2	2.012	2.861	12.5	21.1	10 18	23 19.36	- 7 38.9	1.619	2.487	14.0	19.0
<b>354278</b>	2002 <i>RV</i> <sub>237</sub>		9 16.5 305°79	2°3/14.1	18		<b>430376</b>	2014 <i>DR</i> <sub>51</sub>		9 16.5 292°63	0°4/15.7	16	
8 9	23 56.43	- 2 44.0	1.684	2.534	15.4	20.8	8 9	23 51.99	- 2 19.5	4.314	5.125	7.4	21.3
8 19	23 54.29	- 3 56.8	1.584	2.506	12.0	20.5	8 19	23 49.18	- 2 50.9	4.219	5.119	5.7	21.1
8 29	23 49.86	- 5 28.3	1.505	2.478	8.0	20.2	8 29	23 45.51	- 3 27.6	4.150	5.113	3.8	21.0
9 8	23 43.58	- 7 12.7	1.450	2.450	3.8	19.9	9 8	23 41.23	- 4 7.8	4.108	5.106	1.7	20.8
9 18	23 36.15	- 9 1.2	1.422	2.422	3.0	19.8	9 18	23 36.64	- 4 49.2	4.097	5.100	0.6	20.7
9 28	23 28.64	- 10 43.2	1.421	2.395	7.3	20.0	9 28	23 32.10	- 5 29.1	4.115	5.094	2.7	20.9
10 8	23 22.12	- 12 8.9	1.445	2.367	11.9	20.2	10 8	23 27.94	- 6 5.2	4.163	5.087	4.7	21.0
10 18	23 17.54	- 13 11.9	1.491	2.341	16.0	20.4	10 18	23 24.48	- 6 35.4	4.238	5.081	6.6	21.2
<b>36136</b>	1999 <i>RR</i> <sub>165</sub>		9 16.5 23°23	0°8/17.3	18		<b>317755</b>	2003 <i>SH</i> <sub>72</sub>		9 16.5 20°34	2°6/18.9	18	
8 9	0 1.09	+ 1 11.9	2.079	2.894	14.1	18.2	8 9	0 0.52	+ 6 12.1	1.626	2.439	17.5	20.5
8 19	23 57.17	+ 1 6.6	1.998	2.895	11.2	18.0	8 19	23 57.30	+ 6 11.2	1.550	2.442	14.1	20.3
8 29	23 51.33	+ 0 49.1	1.938	2.897	7.7	17.8	8 29	23 51.73	+ 5 50.9	1.493	2.444	10.2	20.1
9 8	23 44.07	+ 0 22.0	1.903	2.899	3.8	17.6	9 8	23 44.37	+ 5 12.9	1.458	2.447	5.9	19.8
9 18	23 36.10	- 0 11.1	1.896	2.900	0.8	17.3	9 18	23 36.10	+ 4 21.2	1.449	2.450	2.6	19.6
9 28	23 28.28	- 0 45.4	1.917	2.902	4.4	17.6	9 28	23 28.02	+ 3 22.5	1.466	2.454	5.1	19.8
10 8	23 21.46	- 1 16.1	1.965	2.904	8.2	17.9	10 8	23 21.19	+ 2 24.7	1.509	2.458	9.4	20.1
10 18	23 16.28	- 1 39.1	2.038	2.907	11.5	18.1	10 18	23 16.42	+ 1 34.5	1.576	2.462	13.3	20.3
<b>46164</b>	2001 <i>FZ</i> <sub>79</sub>		9 16.5 226°54	3°0/19.2	18		<b>511481</b>	2014 <i>MJ</i> <sub>56</sub>		9 16.5 62°79	2°9/19.6	18	
8 9	0 3.72	+ 6 38.8	1.985	2.775	15.5	19.4	8 9	0 2.73	+ 7 22.1	2.113	2.897	14.9	20.6
8 19	23 59.43	+ 6 54.4	1.895	2.772	12.7	19.2	8 19	23 58.29	+ 7 35.8	2.045	2.917	12.1	20.4
8 29	23 52.99	+ 6 54.6	1.826	2.769	9.3	18.9	8 29	23 51.98	+ 7 34.3	1.998	2.937	8.8	20.2
9 8	23 44.92	+ 6 40.0	1.781	2.765	5.6	18.7	9 8	23 44.35	+ 7 18.7	1.976	2.957	5.4	20.1
9 18	23 35.96	+ 6 12.8	1.763	2.761	3.0	18.5	9 18	23 36.12	+ 6 51.5	1.981	2.978	3.0	20.0
9 28	23 27.08	+ 5 37.3	1.773	2.757	4.8	18.7	9 28	23 28.16	+ 6 17.1	2.014	2.998	4.4	20.1
10 8	23 19.24	+ 4 59.0	1.809	2.753	8.4	18.9	10 8	23 21.27	+ 5 40.5	2.074	3.018	7.5	20.3
10 18	23 13.22	+ 4 23.7	1.871	2.749	11.9	19.1	10 18	23 16.04	+ 5 6.6	2.160	3.038	10.6	20.6
<b>176659</b>	2002 <i>OA</i> <sub>9</sub>		9 16.5 117°97	3°3/19.4	17		<b>438433</b>	2006 <i>WU</i> <sub>55</sub>		9 16.5 269°98	3°5/13.4	18	
8 9	0 3.75	+ 8 6.3	1.586	2.387	18.4	20.5	8 9	0 4.50	- 7 55.1	1.806	2.649	14.8	21.7
8 19	23 59.85	+ 8 5.5	1.512	2.394	15.0	20.3	8 19	0 0.51	- 8 49.3	1.704	2.622	11.6	21.5
8 29	23 53.45	+ 7 43.2	1.456	2.401	10.9	20.1	8 29	23 54.06	- 9 54.5	1.624	2.594	7.9	21.2
9 8	23 45.16	+ 7 0.6	1.424	2.408	6.6	19.9	9 8	23 45.58	- 11 4.8	1.569	2.565	4.3	20.9
9 18	23 35.93	+ 6 1.9	1.416	2.415	3.4	19.7	9 18	23 35.87	- 12 12.3	1.541	2.536	4.1	20.8
9 28	23 26.93	+ 4 54.1	1.435	2.421	5.4	19.8	9 28	23 26.03	- 13 8.8	1.540	2.506	7.9	21.0
10 8	23 19.31	+ 3 45.9	1.480	2.428	9.6	20.1	10 8	23 17.24	- 13 47.7	1.566	2.475	12.1	21.2
10 18	23 13.90	+ 2 45.0	1.549	2.434	13.6	20.4	10 18	23 10.45	- 14 5.5	1.613	2.444	15.9	21.3
<b>45064</b>	1999 <i>XT</i> <sub>31</sub>		9 16.5 302°49	0°8/17.3	18		<b>136799</b>	1997 <i>CP</i> <sub>5</sub>		9 16.5 298°40	1°8/15.1	18	
8 9	23 59.80	+ 1 59.3	1.702	2.530	16.2	18.9	8 9	23 59.62	- 2 20.5	1.393	2.248	17.7	20.6
8 19	23 56.92	+ 1 45.9	1.600	2.505	13.0	18.7	8 19	23 57.24	- 3 7.1	1.304	2.228	13.9	20.3
8 29	23 51.65	+ 1 15.8	1.518	2.479	9.1	18.4	8 29	23 52.12	- 4 12.3	1.235	2.208	9.4	20.0
9 8	23 44.43	+ 0 31.0	1.458	2.454	4.6	18.1	9 8	23 44.74	- 5 30.8	1.188	2.188	4.3	19.7
9 18	23 36.03	- 0 23.7	1.425	2.429	0.9	17.7	9 18	23 36.02	- 6 54.0	1.165	2.168	2.4	19.5
9 28	23 27.51	- 1 21.8	1.418	2.404	5.5	18.0	9 28	23 27.26	- 8 11.2	1.168	2.148	7.5	19.7
10 8	23 20.03	- 2 15.4	1.437	2.380	10.2	18.2	10 8	23 19.82	- 9 12.6	1.195	2.129	12.8	20.0
10 18	23 14.53	- 2 58.0	1.478	2.356	14.5	18.4	10 18	23 14.76	- 9 52.0	1.242	2.110	17.4	20.2
<b>158054</b>	2000 <i>SY</i> <sub>228</sub>		9 16.5 29°05	3°9/20.6	17		<b>403748</b>	2011 <i>AH</i> <sub>42</sub>		9 16.5 299°40	1°7/14.8	17	
8 9	23 58.21	+ 11 57.2	1.660	2.450	18.1	19.7	8 9	23 59.50	- 5 12.9	2.157	2.993	13.0	21.3
8 19	23 55.51	+ 11 36.8	1.580	2.452	15.0	19.5	8 19	23 56.02	- 5 43.5	2.062	2.976	10.1	21.1
8 29	23 50.51	+ 10 50.7	1.517	2.454	11.3	19.3	8 29	23 50.65	- 6 23.0	1.990	2.959	6.7	20.9
9 8	23 43.79	+ 9 40.2	1.477	2.456	7.3	19.0	9 8	23 43.83	- 7 7.5	1.943	2.942	3.2	20.6
9 18	23 36.17	+ 8 9.6	1.462	2.458	4.1	18.9	9 18	23 36.20	- 7 51.9	1.924	2.925	2.1	20.5
9 28	23 28.72	+ 6 27.2	1.474	2.460	5.3	18.9	9 28	23 28.61	- 8 30.9	1.933	2.909	5.5	20.7
10 8	23 22.46	+ 4 43.3	1.512	2.463	9.1	19.2	10 8	23 21.89	- 8 59.6	1.969	2.892	9.2	20.9
10 18	23 18.19	+ 3 7.4	1.575	2.466	13.0	19.4	10 18	23 16.74	- 9 15.0	2.029	2.876	12.5	21.1
<b>209348</b>	2004 <i>CA</i> <sub>108</sub>		9 16.5 311°47	1°0/17.5	18		<b>8107</b>	1995 <i>BR</i> <sub>4</sub>		9 16.5 229°84	2°2/14.5	18	
8 9	0 1.28	+ 1 57.5	1.853	2.672	15.4	20.4	8 9	0 2.15	- 3 3.8	1.561	2.406	16.6	17.6
8 19	23 57.66	+ 1 52.7	1.767	2.666	12.3	20.2	8 19	23 58.76	- 4 8.0	1.481	2.400	12.9	17.3
8 29	23 51.86	+ 1 33.6	1.701	2.660	8.5	20.0	8 29	23 52.84	- 5 28.8	1.422	2.393	8.6	17.0
9 8	23 44.40	+ 1 2.7	1.660	2.655	4.4	19.7	9 8	23 44.96	- 6 59.6	1.387	2.386	4.0	16.8
9 18	23 36.06	+ 0 23.8	1.645	2.649	1.1	19.5	9 18	23 36.01	- 8 31.4	1.378	2.378	2.9	16.7
9 28	23 27.82	- 0 17.5	1.658	2.644	4.8	19.7	9 28	23 27.18	- 9 54.1	1.396	2.371	7.3	16.9
10 8	23 20.66	- 0 55.1	1.697	2.639	9.0	20.0	10 8	23 19.65	- 10 59.5	1.439	2.362	11.9	17.2
10 18	23 15.36	- 1 24.2	1.760	2.634	12.8	20.2	10 18	23 14.32	- 11 42.6	1.504	2.354	15.9	17.4
<b>134828</b>													

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>506881</b>	2008 <i>AU</i> <sub>69</sub>		9 16.5 227°82	1°0/17.4	17		<b>398104</b>	2009 <i>SQ</i> <sub>183</sub>		9 16.6 8°22	1°2/14.5	15	
8 9	0 5.38	+ 2 27.9	1.834	2.644	15.9	23.1	8 9	23 55.73	- 7 52.4	4.318	5.138	7.3	21.1
8 19	0 0.99	+ 2 13.5	1.740	2.634	12.7	22.9	8 19	23 52.01	- 8 4.7	4.233	5.139	5.6	20.9
8 29	23 54.23	+ 1 43.3	1.666	2.623	8.9	22.6	8 29	23 47.38	- 8 19.6	4.174	5.139	3.7	20.8
9 8	23 45.61	+ 0 59.8	1.616	2.611	4.5	22.3	9 8	23 42.13	- 8 35.2	4.142	5.139	1.8	20.7
9 18	23 35.92	+ 0 7.2	1.594	2.598	1.0	22.0	9 18	23 36.58	- 8 49.6	4.141	5.139	1.4	20.6
9 28	23 26.26	- 0 48.0	1.599	2.584	5.1	22.3	9 28	23 31.11	- 9 0.6	4.170	5.140	3.1	20.8
10 8	23 17.70	- 1 39.0	1.632	2.570	9.6	22.5	10 8	23 26.07	- 9 6.7	4.228	5.140	5.0	20.9
10 18	23 11.12	- 2 19.9	1.689	2.556	13.6	22.8	10 18	23 21.79	- 9 6.5	4.313	5.140	6.8	21.0
<b>92354</b>	2000 <i>HR</i> <sub>14</sub>		9 16.5 67°63	3°6/19.5	17		<b>375182</b>	2008 <i>DU</i> <sub>55</sub>		9 16.6 191°52	1°2/17.9	17	
8 9	0 2.92	+ 8 54.1	1.249	2.068	21.4	19.8	8 9	0 2.23	+ 5 51.3	1.986	2.783	15.3	21.8
8 19	23 59.68	+ 8 44.4	1.191	2.084	17.4	19.6	8 19	23 58.26	+ 5 5.4	1.896	2.782	12.3	21.5
8 29	23 53.54	+ 8 7.2	1.149	2.100	12.6	19.4	8 29	23 52.21	+ 4 0.1	1.828	2.780	8.6	21.3
9 8	23 45.27	+ 7 4.8	1.129	2.115	7.5	19.1	9 8	23 44.60	+ 2 38.6	1.785	2.777	4.5	21.1
9 18	23 36.01	+ 5 43.4	1.132	2.131	3.7	19.0	9 18	23 36.16	+ 1 6.4	1.770	2.774	1.2	20.8
9 28	23 27.19	+ 4 13.3	1.159	2.148	6.0	19.2	9 28	23 27.83	- 0 28.8	1.784	2.769	4.6	21.1
10 8	23 20.11	+ 2 46.2	1.212	2.164	10.7	19.5	10 8	23 20.52	- 1 58.8	1.826	2.765	8.7	21.3
10 18	23 15.63	+ 1 31.6	1.286	2.180	15.1	19.8	10 18	23 14.98	- 3 16.6	1.893	2.759	12.4	21.5
<b>79886</b>	1999 <i>AL</i> <sub>17</sub>		9 16.5 93°60	1°4/17.9	18		<b>346565</b>	2008 <i>VF</i> <sub>1</sub>		9 16.6 332°32	4°9/13.4	18	
8 9	0 1.20	+ 3 41.0	2.001	2.809	14.8	19.9	8 9	23 57.92	- 10 26.3	1.144	2.030	18.6	20.2
8 19	23 57.34	+ 3 29.7	1.923	2.814	11.8	19.7	8 19	23 56.60	- 10 52.5	1.058	1.999	14.7	19.9
8 29	23 51.50	+ 3 3.6	1.865	2.819	8.3	19.5	8 29	23 52.11	- 11 27.8	0.990	1.969	10.2	19.5
9 8	23 44.20	+ 2 25.2	1.832	2.824	4.4	19.3	9 8	23 44.93	- 12 4.6	0.943	1.941	5.9	19.2
9 18	23 36.19	+ 1 38.5	1.826	2.829	1.4	19.1	9 18	23 36.07	- 12 33.4	0.918	1.914	5.6	19.1
9 28	23 28.35	+ 0 48.8	1.848	2.835	4.4	19.3	9 28	23 27.11	- 12 44.5	0.915	1.889	10.2	19.2
10 8	23 21.55	+ 0 2.0	1.897	2.839	8.2	19.5	10 8	23 19.70	- 12 31.5	0.932	1.866	15.5	19.5
10 18	23 16.46	- 0 36.8	1.972	2.844	11.7	19.8	10 18	23 15.12	- 11 52.5	0.968	1.845	20.4	19.7
<b>91696</b>	1999 <i>TO</i> <sub>136</sub>		9 16.5 271°23	0°5/16.0	18		<b>219975</b>	2002 <i>KA</i> <sub>11</sub>		9 16.6 82°45	0°5/15.9	18	
8 9	0 1.02	- 2 17.3	2.378	3.197	12.4	20.1	8 9	23 58.17	- 0 27.6	2.271	3.092	12.9	20.0
8 19	23 57.03	- 2 35.8	2.277	3.179	9.8	19.9	8 19	23 54.71	- 1 13.0	2.198	3.102	10.0	19.8
8 29	23 51.26	- 3 3.7	2.198	3.162	6.6	19.7	8 29	23 49.58	- 2 10.1	2.148	3.112	6.7	19.6
9 8	23 44.11	- 3 38.2	2.146	3.144	3.0	19.5	9 8	23 43.27	- 3 14.8	2.124	3.122	3.0	19.4
9 18	23 36.20	- 4 15.5	2.122	3.126	0.9	19.3	9 18	23 36.40	- 4 22.0	2.128	3.132	0.9	19.3
9 28	23 28.29	- 4 50.9	2.126	3.107	4.6	19.5	9 28	23 29.72	- 5 25.8	2.161	3.142	4.5	19.6
10 8	23 21.17	- 5 20.0	2.159	3.089	8.1	19.7	10 8	23 23.92	- 6 21.0	2.222	3.152	7.9	19.8
10 18	23 15.49	- 5 39.5	2.217	3.070	11.3	19.9	10 18	23 19.57	- 7 4.0	2.308	3.162	10.9	20.0
<b>70766</b>	1999 <i>VO</i> <sub>33</sub>		9 16.5 230°96	0°9/17.5	18		<b>71851</b>	2000 <i>UN</i> <sub>104</sub>		9 16.6 112°45	2°1/18.1	18	
8 9	0 0.71	+ 2 59.7	1.896	2.711	15.3	19.5	8 9	0 5.90	+ 3 39.4	1.463	2.285	18.7	19.2
8 19	23 57.14	+ 2 37.5	1.812	2.709	12.2	19.3	8 19	0 1.79	+ 3 47.9	1.389	2.288	15.0	18.9
8 29	23 51.48	+ 1 59.3	1.748	2.706	8.4	19.1	8 29	23 54.93	+ 3 38.3	1.334	2.291	10.6	18.7
9 8	23 44.25	+ 1 8.2	1.709	2.704	4.3	18.8	9 8	23 45.98	+ 3 12.5	1.302	2.294	5.8	18.4
9 18	23 36.18	+ 0 8.7	1.697	2.702	1.0	18.6	9 18	23 35.93	+ 2 34.6	1.294	2.297	2.1	18.2
9 28	23 28.24	- 0 52.6	1.713	2.699	4.8	18.8	9 28	23 26.13	+ 1 51.3	1.312	2.300	5.7	18.5
10 8	23 21.36	- 1 49.1	1.756	2.697	8.9	19.1	10 8	23 17.82	+ 1 10.1	1.356	2.302	10.4	18.7
10 18	23 16.27	- 2 35.2	1.823	2.694	12.5	19.3	10 18	23 11.93	+ 0 37.4	1.423	2.305	14.7	19.0
<b>346611</b>	2008 <i>WD</i> <sub>73</sub>		9 16.5 7°59	7°2/22.7	18		<b>132556</b>	2002 <i>JS</i> <sub>85</sub>		9 16.6 1°51	4°7/19.9	18	
8 9	23 58.47	+ 14 50.8	1.405	2.194	20.9	20.4	8 9	23 54.88	+ 8 14.3	1.004	1.857	23.2	18.9
8 19	23 56.21	+ 15 32.6	1.331	2.195	17.8	20.2	8 19	23 54.18	+ 8 38.7	0.941	1.853	19.1	18.6
8 29	23 51.28	+ 15 47.5	1.274	2.196	14.2	19.9	8 29	23 50.33	+ 8 33.8	0.893	1.852	14.2	18.3
9 8	23 44.29	+ 15 33.3	1.237	2.199	10.4	19.7	9 8	23 43.97	+ 7 59.5	0.864	1.852	8.9	18.0
9 18	23 36.18	+ 14 50.9	1.221	2.202	7.6	19.6	9 18	23 36.27	+ 7 0.1	0.854	1.854	4.9	17.8
9 28	23 28.23	+ 13 45.9	1.229	2.207	7.7	19.6	9 28	23 28.82	+ 5 45.3	0.867	1.857	6.9	17.9
10 8	23 21.70	+ 12 27.9	1.261	2.212	10.5	19.8	10 8	23 23.15	+ 4 28.2	0.900	1.862	12.0	18.2
10 18	23 17.52	+ 11 7.6	1.315	2.218	14.2	20.0	10 18	23 20.33	+ 3 20.6	0.953	1.868	17.0	18.6
<b>98782</b>	2000 <i>YS</i> <sub>92</sub>		9 16.6 320°57	1°9/14.9	18		<b>214940</b>	2007 <i>VK</i> <sub>251</sub>		9 16.6 299°40	2°6/13.8	18	
8 9	0 0.02	- 4 5.1	1.546	2.398	16.4	19.6	8 9	23 58.50	- 5 9.4	1.825	2.672	14.5	20.6
8 19	23 57.14	- 4 40.7	1.465	2.388	12.8	19.4	8 19	23 55.55	- 6 14.0	1.744	2.665	11.2	20.3
8 29	23 51.78	- 5 29.8	1.405	2.377	8.6	19.1	8 29	23 50.48	- 7 31.0	1.686	2.658	7.4	20.1
9 8	23 44.49	- 6 26.9	1.368	2.367	4.0	18.8	9 8	23 43.82	- 8 54.1	1.652	2.651	3.7	19.9
9 18	23 36.15	- 7 24.9	1.356	2.358	2.5	18.7	9 18	23 36.31	- 10 15.7	1.646	2.644	3.2	19.8
9 28	23 27.92	- 8 15.8	1.370	2.349	6.9	18.9	9 28	23 28.91	- 11 27.7	1.667	2.637	6.8	20.0
10 8	23 20.96	- 8 52.5	1.409	2.340	11.4	19.2	10 8	23 22.58	- 12 23.5	1.714	2.631	10.7	20.2
10 18	23 16.14	- 9 11.1	1.469	2.332	15.5	19.4	10 18	23 18.05	- 12 59.3	1.783	2.624	14.2	20.5
<b>216494</b>	2000 <i>AH</i> <sub>51</sub>		9 16.6 322°23	10°5/29.7	18		<b>450131</b>	2015 <i>SE</i> <sub>5</sub>		9 16.6 10°50	1°8/18.1	18	
8 9	23 56.74	+ 29 37.9	2.069	2.725	18.7	19.1	8 9	0 3.13	+ 2 47.1	1.931	2.741	15.2	20.5
8 19	23 54.37	+ 30 24.1	1.968	2.711	17.1	18.9	8 19	23 58.97	+ 3 3.5	1.850	2.742	12.2	20.3
8 29	23 49.84	+ 30 43.6	1.882	2.698	15.2	18.8	8 29	23 52.68	+ 3 7.1	1.789	2.743	8.6	20.0
9 8	23 43.58	+ 30 32.0	1.813	2.685	13.1	18.6	9 8	23 44.82	+ 2 59.3	1.753	2.744	4.7	19.8
9 18	23 36.30	+ 29 47.0	1.765	2.672	11.4	18.5	9 18	23 36.14	+ 2 42.8	1.744	2.746	1.8	19.6
9 28	23 28.97	+ 28 29.6	1.739	2.660	10.5	18.4	9 28	23 27.62	+ 2 21.8	1.762	2.748	4.6	19.8
10 8	23 22.63	+ 26 46.0	1.738	2.649	11.0	18.4	10 8	23 20.19	+ 2 1.2	1.807	2.751	8.5	20.1
10 18	23 18.12	+ 24 45.2	1.760	2.637	12.6	18.5	10 18	23 14.58	+ 1 45.3	1.877	2.753	12.0	20.3
<b>445414</b>	2010 <i>TD</i> <sub>106</sub>		9 16.6 314°21	2°2/14.6	18								

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>165302</b>	2000 <i>UK</i> <sub>10</sub>		9 16.6 328°67	6°9/12.3 18			<b>58230</b>	1993 <i>FR</i> <sub>39</sub>		9 16.6 208°45	0°8/15.9 17		
8 9	23 58.62	-12 43.8	0.996	1.892	19.9	18.2	8 9	0 4.95	-1 11.1	1.515	2.351	17.5	19.9
8 19	23 57.57	-13 27.4	0.919	1.865	15.8	17.8	8 19	0 1.03	-1 43.5	1.436	2.348	13.7	19.6
8 29	23 53.00	-14 19.7	0.860	1.840	11.2	17.5	8 29	23 54.44	-2 32.0	1.378	2.345	9.3	19.4
9 8	23 45.42	-15 10.5	0.820	1.815	7.4	17.2	9 8	23 45.79	-3 32.0	1.343	2.341	4.3	19.1
9 18	23 36.01	-15 47.2	0.801	1.792	7.8	17.1	9 18	23 36.03	-4 36.4	1.333	2.337	1.4	18.9
9 28	23 26.56	-15 58.4	0.802	1.771	12.3	17.3	9 28	23 26.44	-5 36.6	1.351	2.333	6.4	19.2
10 8	23 18.94	-15 37.6	0.822	1.751	17.6	17.5	10 8	23 18.26	-6 25.0	1.394	2.328	11.3	19.5
10 18	23 14.53	-14 44.7	0.859	1.734	22.5	17.7	10 18	23 12.40	-6 56.5	1.459	2.323	15.5	19.7
<b>519737</b>	2013 <i>CE</i> <sub>226</sub>		9 16.6 69°05	2°9/19.5 18			<b>152122</b>	2004 <i>RT</i> <sub>318</sub>		9 16.6 292°92	1°8/19.3 17		
8 9	0 3.29	+ 7 15.9	2.085	2.870	15.1	20.5	8 9	23 55.37	+ 7 17.9	3.100	3.877	10.8	20.3
8 19	23 58.79	+ 7 30.1	2.016	2.888	12.2	20.4	8 19	23 52.27	+ 7 2.0	2.988	3.857	8.8	20.1
8 29	23 52.38	+ 7 28.9	1.967	2.906	8.9	20.2	8 29	23 47.88	+ 6 33.9	2.898	3.837	6.4	19.9
9 8	23 44.61	+ 7 13.5	1.943	2.924	5.5	20.0	9 8	23 42.51	+ 5 55.0	2.834	3.817	3.8	19.7
9 18	23 36.21	+ 6 46.5	1.946	2.943	3.0	19.9	9 18	23 36.59	+ 5 7.4	2.798	3.797	1.9	19.6
9 28	23 28.07	+ 6 12.0	1.977	2.961	4.5	20.0	9 28	23 30.66	+ 4 14.6	2.792	3.777	3.2	19.6
10 8	23 21.00	+ 5 35.4	2.035	2.979	7.6	20.3	10 8	23 25.28	+ 3 20.6	2.815	3.758	5.8	19.8
10 18	23 15.65	+ 5 1.5	2.119	2.997	10.7	20.5	10 18	23 20.91	+ 2 29.6	2.865	3.738	8.4	19.9
<b>437965</b>	2003 <i>AL</i> <sub>73</sub>		9 16.6 112°53	2°2/19.8 15			<b>71543</b>	2000 <i>CM</i> <sub>120</sub>		9 16.6 333°94	3°4/19.9 18		
8 9	0 6.43	+ 9 47.6	3.025	3.765	11.8	25.4	8 9	23 57.46	+ 8 23.8	1.920	2.717	15.8	18.4
8 19	0 0.45	+ 9 18.9	2.956	3.801	9.5	25.3	8 19	23 54.74	+ 8 33.2	1.826	2.705	13.0	18.2
8 29	23 53.09	+ 8 36.7	2.910	3.835	6.9	25.2	8 29	23 49.98	+ 8 24.8	1.752	2.693	9.7	18.0
9 8	23 44.82	+ 7 43.0	2.892	3.868	4.2	25.0	9 8	23 43.63	+ 7 59.1	1.700	2.682	6.1	17.8
9 18	23 36.19	+ 6 40.7	2.904	3.900	2.2	24.9	9 18	23 36.39	+ 7 18.5	1.674	2.671	3.5	17.6
9 28	23 27.83	+ 5 34.0	2.948	3.931	3.3	25.0	9 28	23 29.18	+ 6 27.8	1.675	2.661	4.9	17.7
10 8	23 20.32	+ 4 27.7	3.024	3.960	5.8	25.3	10 8	23 22.92	+ 5 33.4	1.702	2.651	8.4	17.9
10 18	23 14.10	+ 3 25.9	3.129	3.988	8.2	25.5	10 18	23 18.37	+ 4 41.9	1.754	2.643	12.0	18.1
<b>255480</b>	2005 <i>YB</i> <sub>209</sub>		9 16.6 209°42	6°1/ 7.9 18			<b>364990</b>	2008 <i>JD</i> <sub>18</sub>		9 16.6 222°44	4°8/10.7 18		
8 9	0 2.28	-23 48.2	2.878	3.715	10.0	21.4	8 9	0 0.59	-15 18.4	2.329	3.177	11.7	21.2
8 19	23 57.67	-24 51.7	2.809	3.709	8.2	21.3	8 19	23 56.67	-16 21.8	2.256	3.174	9.2	21.0
8 29	23 51.49	-25 51.8	2.764	3.703	6.7	21.2	8 29	23 50.98	-17 27.3	2.207	3.170	6.6	20.8
9 8	23 44.17	-26 42.8	2.747	3.696	6.1	21.1	9 8	23 43.99	-18 28.8	2.185	3.166	4.9	20.7
9 18	23 36.29	-27 20.0	2.757	3.689	6.7	21.1	9 18	23 36.35	-19 20.1	2.190	3.163	5.5	20.7
9 28	23 28.55	-27 39.8	2.794	3.682	8.3	21.2	9 28	23 28.86	-19 56.2	2.223	3.159	7.7	20.9
10 8	23 21.63	-27 40.6	2.856	3.674	10.1	21.4	10 8	23 22.30	-20 14.2	2.281	3.155	10.4	21.0
10 18	23 16.07	-27 23.0	2.940	3.666	11.9	21.5	10 18	23 17.25	-20 13.2	2.362	3.150	12.8	21.2
<b>180081</b>	2003 <i>DA</i> <sub>11</sub>		9 16.6 264°26	0°9/17.5 18			<b>127411</b>	2002 <i>LS</i> <sub>48</sub>		9 16.6 301°22	3°1/12.8 18		
8 9	0 2.37	+ 1 30.0	2.100	2.911	14.1	20.7	8 9	23 56.86	- 7 26.2	2.156	3.003	12.6	19.8
8 19	23 58.25	+ 1 28.4	2.011	2.906	11.2	20.5	8 19	23 53.98	- 8 37.2	2.070	2.991	9.7	19.6
8 29	23 52.16	+ 1 14.7	1.944	2.901	7.8	20.3	8 29	23 49.29	- 9 57.6	2.009	2.980	6.5	19.4
9 8	23 44.58	+ 0 51.0	1.903	2.897	4.0	20.1	9 8	23 43.24	-11 21.6	1.973	2.969	3.6	19.2
9 18	23 36.21	+ 0 20.8	1.888	2.892	1.0	19.8	9 18	23 36.47	-12 42.3	1.965	2.958	3.7	19.2
9 28	23 27.94	- 0 11.5	1.902	2.887	4.4	20.1	9 28	23 29.76	-13 52.7	1.985	2.947	6.7	19.3
10 8	23 20.63	- 0 40.9	1.943	2.883	8.2	20.3	10 8	23 23.91	-14 47.4	2.031	2.936	10.0	19.5
10 18	23 14.99	- 1 3.2	2.009	2.878	11.7	20.5	10 18	23 19.58	-15 23.2	2.101	2.925	13.0	19.7
<b>307188</b>	2002 <i>EH</i> <sub>107</sub>		9 16.6 198°69	3°3/12.9 18			<b>400637</b>	2009 <i>EF</i> <sub>12</sub>		9 16.6 150°72	1°8/14.4 18		
8 9	0 4.69	-10 15.5	2.301	3.135	12.3	21.4	8 9	0 0.35	- 4 21.6	2.356	3.183	12.3	21.7
8 19	23 59.85	-11 3.9	2.219	3.131	9.5	21.2	8 19	23 56.37	- 5 19.3	2.281	3.190	9.4	21.5
8 29	23 53.12	-11 57.6	2.161	3.127	6.5	21.0	8 29	23 50.71	- 6 26.3	2.230	3.197	6.2	21.3
9 8	23 44.99	-12 51.3	2.129	3.122	3.8	20.9	9 8	23 43.84	- 7 37.7	2.205	3.203	3.0	21.1
9 18	23 36.15	-13 39.3	2.126	3.116	3.8	20.9	9 18	23 36.39	- 8 48.0	2.210	3.209	2.2	21.1
9 28	23 27.44	-14 16.5	2.152	3.110	6.5	21.0	9 28	23 29.11	- 9 51.4	2.243	3.215	5.3	21.3
10 8	23 19.69	-14 39.1	2.205	3.103	9.6	21.2	10 8	23 22.71	-10 43.0	2.305	3.220	8.5	21.5
10 18	23 13.54	-14 45.6	2.283	3.095	12.4	21.4	10 18	23 17.76	-11 19.9	2.391	3.224	11.3	21.7
<b>67233</b>	2000 <i>EP</i> <sub>11</sub>		9 16.6 335°47	7°9/ 7.5 18			<b>516010</b>	2015 <i>RF</i> <sub>254</sub>		9 16.6 87°25	0°7/15.9 18		
8 9	23 56.89	-20 6.9	1.807	2.677	13.6	17.8	8 9	0 2.59	- 2 39.8	2.061	2.886	13.9	21.1
8 19	23 54.46	-21 42.3	1.739	2.663	11.0	17.6	8 19	23 58.32	- 2 58.5	1.989	2.895	10.8	20.9
8 29	23 49.83	-23 17.9	1.694	2.651	8.7	17.5	8 29	23 52.11	- 3 27.1	1.939	2.904	7.2	20.7
9 8	23 43.54	-24 44.1	1.673	2.639	7.9	17.4	9 8	23 44.52	- 4 1.8	1.914	2.912	3.3	20.5
9 18	23 36.38	-25 52.2	1.677	2.627	9.0	17.4	9 18	23 36.28	- 4 38.1	1.917	2.921	1.1	20.3
9 28	23 29.37	-26 34.9	1.706	2.617	11.4	17.5	9 28	23 28.27	- 5 11.1	1.948	2.929	4.9	20.6
10 8	23 23.49	-26 49.3	1.757	2.607	14.1	17.7	10 8	23 21.31	- 5 36.3	2.007	2.938	8.6	20.8
10 18	23 19.50	-26 35.6	1.827	2.597	16.7	17.9	10 18	23 16.05	- 5 50.7	2.090	2.946	11.8	21.1
<b>510110</b>	2010 <i>RF</i> <sub>103</sub>		9 16.6 298°18	2°0/18.3 17			<b>368122</b>	2013 <i>GW</i> <sub>130</sub>		9 16.6 64°80	5°6/13.1 17		
8 9	23 58.46	+ 5 58.7	1.349	2.181	19.4	21.4	8 9	0 10.17	-12 14.5	1.173	2.041	19.5	20.0
8 19	23 56.49	+ 5 36.3	1.257	2.162	15.8	21.1	8 19	0 5.33	-12 58.9	1.130	2.060	15.1	19.8
8 29	23 51.73	+ 4 47.8	1.183	2.142	11.4	20.8	8 29	23 57.28	-13 47.9	1.106	2.079	10.3	19.6
9 8	23 44.66	+ 3 34.9	1.129	2.123	6.3	20.5	9 8	23 47.01	-14 31.7	1.104	2.098	6.3	19.4
9 18	23 36.18	+ 2 3.2	1.100	2.103	2.0	20.2	9 18	23 35.90	-15 1.3	1.126	2.117	6.2	19.5
9 28	23 27.61	+ 0 22.8	1.095	2.084	6.1	20.4	9 28	23 25.57	-15 9.9	1.173	2.136	9.9	19.7
10 8	23 20.35	- 1 13.8	1.115	2.065	11.6	20.6	10 8	23 17.36	-14 55.3	1.242	2.156	14.2	20.0
10 18	23 15.53	- 2 36.0	1.156	2.047	16.7	20.9	10 18	23 12.09	-14 18.9	1.331	2.175	17.9	20.3
<b>96959</b>	1999 <i>TT</i> <sub>184</sub>		9 16.6 302°05	6°6/21.4 18			<b>205136</b>	1999					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>213730</b>	2002 <i>VT</i> <sub>123</sub>		9 16.6 349°69	2°9/14.2	18		<b>451312</b>	2010 <i>UF</i> <sub>25</sub>		9 16.6 316°15	5°0/11.7	18	
8 9	0 1.00	- 7 23.0	1.618	2.473	15.7	20.4	8 9	0 0.62	-13 44.0	1.868	2.726	13.8	20.5
8 19	23 57.73	- 7 56.1	1.545	2.469	12.1	20.1	8 19	23 57.29	-14 33.5	1.783	2.707	10.8	20.3
8 29	23 52.07	- 8 38.3	1.493	2.466	8.1	19.9	8 29	23 51.74	-15 27.1	1.720	2.688	7.6	20.1
9 8	23 44.63	- 9 23.7	1.465	2.463	4.1	19.7	9 8	23 44.49	-16 18.1	1.681	2.670	5.3	19.9
9 18	23 36.27	-10 5.5	1.462	2.461	3.4	19.6	9 18	23 36.31	-16 59.5	1.669	2.652	5.7	19.9
9 28	23 28.12	-10 36.9	1.486	2.459	7.2	19.8	9 28	23 28.19	-17 24.9	1.683	2.634	8.6	20.0
10 8	23 21.25	-10 53.0	1.534	2.457	11.3	20.1	10 8	23 21.15	-17 30.4	1.721	2.617	12.0	20.2
10 18	23 16.46	-10 51.5	1.604	2.457	14.9	20.3	10 18	23 15.99	-17 14.9	1.781	2.601	15.1	20.4
<b>187769</b>	1998 <i>RX</i> <sub>29</sub>		9 16.6 3°06	1°6/14.9	18		<b>215080</b>	Kaohsiung		9 16.6 163°69	0°5/16.0	18	
8 9	23 54.73	- 1 54.9	1.687	2.538	15.3	19.3	8 9	0 2.81	- 2 3.6	2.327	3.143	12.8	21.9
8 19	23 52.72	- 2 55.3	1.616	2.537	11.9	19.1	8 19	23 58.32	- 2 27.1	2.246	3.147	10.0	21.7
8 29	23 48.62	- 4 11.0	1.565	2.537	7.8	18.9	8 29	23 52.05	- 3 0.1	2.188	3.151	6.7	21.5
9 8	23 42.97	- 5 36.0	1.538	2.538	3.6	18.6	9 8	23 44.50	- 3 39.4	2.156	3.154	3.1	21.3
9 18	23 36.55	- 7 2.5	1.538	2.540	2.1	18.5	9 18	23 36.32	- 4 20.7	2.153	3.157	0.9	21.1
9 28	23 30.31	- 8 21.8	1.564	2.543	6.2	18.8	9 28	23 28.29	- 4 59.4	2.179	3.159	4.5	21.4
10 8	23 25.16	- 9 26.6	1.616	2.546	10.3	19.0	10 8	23 21.18	- 5 31.0	2.233	3.161	8.0	21.6
10 18	23 21.82	-10 12.2	1.690	2.551	13.9	19.3	10 18	23 15.59	- 5 52.6	2.312	3.163	11.0	21.8
<b>252810</b>	2002 <i>GL</i> <sub>16</sub>		9 16.6 230°17	2°5/13.9	18		<b>41406</b>	2000 <i>AD</i> <sub>188</sub>		9 16.6 57°06	7°3/26.9	18	
8 9	0 2.76	- 8 58.4	2.347	3.181	12.1	20.2	8 9	23 57.92	+24 44.5	2.140	2.828	17.4	17.6
8 19	23 58.31	- 9 25.6	2.264	3.176	9.4	20.0	8 19	23 54.80	+24 42.1	2.066	2.847	15.2	17.5
8 29	23 52.07	- 9 57.7	2.205	3.172	6.3	19.8	8 29	23 49.80	+24 13.0	2.009	2.867	12.7	17.4
9 8	23 44.52	-10 30.6	2.172	3.167	3.3	19.6	9 8	23 43.46	+23 16.2	1.972	2.887	10.2	17.2
9 18	23 36.30	-10 59.8	2.167	3.163	2.9	19.6	9 18	23 36.50	+21 53.4	1.959	2.906	8.0	17.1
9 28	23 28.22	-11 20.9	2.191	3.158	5.7	19.8	9 28	23 29.79	+20 9.8	1.972	2.926	7.3	17.1
10 8	23 21.05	-11 30.6	2.242	3.153	8.9	19.9	10 8	23 24.12	+18 13.6	2.012	2.946	8.3	17.2
10 18	23 15.41	-11 27.4	2.318	3.148	11.7	20.1	10 18	23 20.11	+16 14.0	2.079	2.966	10.5	17.4
<b>147564</b>	2004 <i>FM</i> <sub>33</sub>		9 16.6 281°57	3°6/19.6	17		<b>473342</b>	2015 <i>TZ</i> <sub>171</sub>		9 16.6 341°55	3°3/13.2	18	
8 9	0 1.42	+ 8 24.8	1.562	2.367	18.4	20.3	8 9	23 58.04	- 8 23.6	1.831	2.686	14.1	20.4
8 19	23 58.38	+ 8 29.2	1.470	2.355	15.2	20.0	8 19	23 55.19	- 9 14.0	1.754	2.679	10.9	20.1
8 29	23 52.77	+ 8 11.6	1.398	2.343	11.3	19.8	8 29	23 50.25	-10 12.8	1.700	2.672	7.3	19.9
9 8	23 45.08	+ 7 32.1	1.347	2.331	7.0	19.5	9 8	23 43.76	-11 13.8	1.669	2.666	4.0	19.7
9 18	23 36.18	+ 6 33.8	1.320	2.318	3.7	19.3	9 18	23 36.45	-12 10.3	1.666	2.660	3.9	19.7
9 28	23 27.27	+ 5 23.4	1.319	2.306	5.7	19.4	9 28	23 29.29	-12 55.3	1.689	2.655	7.2	19.9
10 8	23 19.59	+ 4 10.0	1.344	2.294	10.1	19.6	10 8	23 23.20	-13 23.9	1.737	2.650	10.8	20.1
10 18	23 14.12	+ 3 2.5	1.392	2.282	14.4	19.8	10 18	23 18.89	-13 33.7	1.807	2.646	14.1	20.3
<b>5436</b>	Eumelos		9 16.6 249°51	1°7/20.1	18 R		<b>254630</b>	2005 <i>JJ</i> <sub>60</sub>		9 16.6 328°90	1°4/13.9	17	
8 9	23 52.66	+ 8 30.1	4.628	5.385	7.8	17.9	8 9	23 53.14	- 7 35.0	4.117	4.944	7.5	20.4
8 19	23 49.69	+ 8 21.6	4.525	5.380	6.3	17.8	8 19	23 50.14	- 8 9.1	4.033	4.943	5.7	20.3
8 29	23 45.89	+ 8 4.9	4.446	5.375	4.7	17.7	8 29	23 46.23	- 8 46.7	3.974	4.941	3.8	20.1
9 8	23 41.50	+ 7 41.1	4.394	5.369	3.0	17.6	9 8	23 41.68	- 9 25.4	3.944	4.940	1.9	20.0
9 18	23 36.81	+ 7 11.4	4.370	5.364	1.7	17.5	9 18	23 36.81	-10 2.6	3.942	4.939	1.7	20.0
9 28	23 32.16	+ 6 37.8	4.376	5.359	2.3	17.5	9 28	23 32.01	-10 35.8	3.971	4.938	3.4	20.1
10 8	23 27.87	+ 6 2.7	4.412	5.354	3.9	17.6	10 8	23 27.64	-11 2.6	4.029	4.937	5.4	20.2
10 18	23 24.23	+ 5 28.2	4.477	5.349	5.6	17.7	10 18	23 24.02	-11 21.6	4.113	4.936	7.1	20.4
<b>236489</b>	2006 <i>FO</i> <sub>44</sub>		9 16.6 168°56	3°0/13.6	18		<b>98014</b>	2000 <i>QD</i> <sub>215</sub>		9 16.6 309°14	2°9/14.0	18	
8 9	0 5.05	- 9 14.3	2.138	2.973	13.1	20.9	8 9	23 58.78	- 3 20.4	1.283	2.147	18.4	19.3
8 19	0 0.20	- 9 53.6	2.063	2.976	10.1	20.7	8 19	23 56.70	- 4 33.2	1.208	2.138	14.3	19.1
8 29	23 53.39	-10 38.5	2.012	2.979	6.8	20.5	8 29	23 51.80	- 6 6.2	1.153	2.129	9.5	18.8
9 8	23 45.14	-11 24.0	1.987	2.982	3.7	20.3	9 8	23 44.66	- 7 51.1	1.120	2.120	4.6	18.5
9 18	23 36.21	-12 4.3	1.990	2.984	3.5	20.3	9 18	23 36.30	- 9 36.6	1.111	2.111	3.7	18.4
9 28	23 27.48	-12 34.5	2.021	2.985	6.4	20.5	9 28	23 28.06	-11 9.9	1.127	2.103	8.6	18.7
10 8	23 19.82	-12 50.9	2.080	2.987	9.7	20.7	10 8	23 21.30	-12 20.8	1.167	2.095	13.6	18.9
10 18	23 13.88	-12 52.0	2.163	2.987	12.6	20.9	10 18	23 17.03	-13 3.8	1.226	2.087	18.0	19.2
<b>185078</b>	2006 <i>RH</i> <sub>72</sub>		9 16.6 257°95	0°2/16.4	18		<b>382588</b>	2002 <i>CE</i> <sub>234</sub>		9 16.6 242°06	9°1/ 6.8	18	
8 9	0 0.59	- 0 27.7	2.014	2.838	14.2	21.3	8 9	0 4.13	-23 47.6	1.794	2.651	14.3	20.7
8 19	23 56.95	- 0 54.4	1.930	2.835	11.1	21.1	8 19	0 0.15	-25 27.6	1.733	2.645	11.8	20.5
8 29	23 51.32	- 1 33.7	1.868	2.832	7.5	20.9	8 29	23 53.71	-27 4.0	1.695	2.638	9.8	20.4
9 8	23 44.22	- 2 22.2	1.831	2.829	3.5	20.6	9 8	23 45.41	-28 26.5	1.681	2.631	9.1	20.3
9 18	23 36.35	- 3 14.9	1.821	2.826	0.7	20.4	9 18	23 36.19	-29 25.9	1.692	2.624	10.2	20.4
9 28	23 28.61	- 4 5.8	1.840	2.823	4.9	20.7	9 28	23 27.21	-29 56.0	1.727	2.617	12.4	20.5
10 8	23 21.85	- 4 49.4	1.885	2.820	8.8	20.9	10 8	23 19.56	-29 55.0	1.784	2.610	15.0	20.7
10 18	23 16.78	- 5 21.4	1.955	2.817	12.2	21.1	10 18	23 14.08	-29 25.0	1.860	2.603	17.4	20.8
<b>84918</b>	2003 <i>UQ</i> <sub>260</sub>		9 16.6 245°43	6°4/23.2	18		<b>507203</b>	2010 <i>TB</i> <sub>124</sub>		9 16.6 241°62	3°2/14.1	17	
8 9	0 2.73	+17 24.6	2.228	2.953	15.9	19.4	8 9	0 6.20	- 7 32.6	1.571	2.419	16.4	22.1
8 19	23 58.69	+17 59.7	2.125	2.942	13.7	19.2	8 19	0 2.00	- 8 11.5	1.491	2.410	12.8	21.8
8 29	23 52.59	+18 15.6	2.041	2.931	11.2	19.0	8 29	23 55.12	- 9 0.4	1.431	2.402	8.6	21.6
9 8	23 44.89	+18 10.5	1.979	2.920	8.6	18.8	9 8	23 46.15	- 9 53.0	1.395	2.393	4.5	21.3
9 18	23 36.23	+17 43.9	1.942	2.908	6.7	18.7	9 18	23 36.06	-10 41.8	1.385	2.383	3.8	21.2
9 28	23 27.52	+16 58.4	1.932	2.896	6.6	18.6	9 28	23 26.10	-11 18.9	1.402	2.373	7.8	21.5
10 8	23 19.70	+15 59.5	1.949	2.883	8.6	18.7	10 8	23 17.53	-11 38.8	1.444	2.363	12.2	21.7
10 18	23 13.52	+14 54.0	1.991	2.871	11.2	18.9	10 18	23 11.27	-11 39.0	1.507	2.353	16.1	21.9
<b>476986</b>	2008 <i>YE</i> <sub>81</sub>		9 16.6 304°70	5°1/12.0	18		<b>93262</b>	2000 <i>SR</i> <sub>168</sub>		9 1			

EPHEMERIDES

9 16.6

9 16.6

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>180767</b>	2004 <i>PC</i> <sub>36</sub>		9 16.6	37°21	1.4/15.3	18	<b>290133</b>	2005 <i>QS</i> <sub>153</sub>		9 16.6	347°83	5°5/12.5	18
8 9	23 59.57	- 3 8.3	1.676	2.521	15.7	19.9	8 9	0 3.07	-12 4.1	1.334	2.205	17.4	20.4
8 19	23 56.31	- 3 46.9	1.620	2.538	12.1	19.7	8 19	23 59.89	-12 55.5	1.269	2.201	13.6	20.1
8 29	23 50.91	- 4 37.3	1.585	2.556	8.0	19.5	8 29	23 53.82	-13 53.3	1.224	2.197	9.4	19.9
9 8	23 44.00	- 5 34.1	1.575	2.574	3.6	19.3	9 8	23 45.57	-14 48.7	1.201	2.194	6.0	19.7
9 18	23 36.44	- 6 30.6	1.590	2.593	1.9	19.2	9 18	23 36.22	-15 32.4	1.203	2.192	6.3	19.7
9 28	23 29.24	- 7 20.1	1.633	2.612	5.9	19.5	9 28	23 27.18	-15 56.2	1.229	2.190	9.9	19.9
10 8	23 23.29	- 7 57.0	1.701	2.632	9.8	19.8	10 8	23 19.75	-15 55.8	1.277	2.189	14.0	20.1
10 18	23 19.24	- 8 18.3	1.792	2.652	13.2	20.1	10 18	23 14.87	-15 31.2	1.345	2.188	17.8	20.4
<b>11457</b>	Hitomikobayashi		9 16.6	105°21	3°6/19.7	18	<b>335499</b>	2005 <i>YB</i> <sub>28</sub>		9 16.6	354°40	0°4/16.9	18
8 9	0 5.38	+ 8 49.9	1.560	2.356	18.8	19.7	8 9	23 54.94	- 1 12.5	0.986	1.869	21.2	19.6
8 19	0 1.15	+ 8 52.7	1.492	2.370	15.4	19.5	8 19	23 54.33	- 0 56.2	0.922	1.858	16.8	19.3
8 29	23 54.38	+ 8 33.2	1.442	2.383	11.3	19.3	8 29	23 50.53	- 0 57.7	0.873	1.850	11.6	19.0
9 8	23 45.72	+ 7 52.9	1.414	2.396	6.9	19.1	9 8	23 44.18	- 1 13.6	0.844	1.844	5.6	18.6
9 18	23 36.15	+ 6 55.6	1.411	2.409	3.7	18.9	9 18	23 36.44	- 1 38.1	0.835	1.840	0.8	18.3
9 28	23 26.90	+ 5 48.6	1.436	2.422	5.5	19.1	9 28	23 28.92	- 2 2.8	0.848	1.838	7.1	18.7
10 8	23 19.10	+ 4 40.5	1.486	2.434	9.6	19.3	10 8	23 23.18	- 2 19.3	0.882	1.839	12.9	19.0
10 18	23 13.57	+ 3 39.2	1.560	2.445	13.5	19.6	10 18	23 20.30	- 2 21.7	0.934	1.842	18.0	19.3
<b>97581</b>	2000 <i>EL</i> <sub>12</sub>		9 16.6	98°37	4°4/11.9	18	<b>426</b>	Hippo		9 16.6	189°10	6°8/24.1	18
8 9	0 2.81	-12 21.3	2.014	2.862	13.3	19.4	8 9	0 5.21	+19 36.8	2.496	3.192	15.0	13.8
8 19	23 58.49	-13 27.7	1.959	2.878	10.2	19.2	8 19	0 0.37	+20 28.5	2.399	3.191	13.1	13.6
8 29	23 52.22	-14 37.6	1.927	2.894	7.1	19.1	8 29	23 53.60	+21 2.7	2.322	3.190	10.9	13.5
9 8	23 44.58	-15 44.3	1.921	2.910	4.7	18.9	9 8	23 45.35	+21 17.1	2.268	3.189	8.7	13.3
9 18	23 36.35	-16 41.1	1.942	2.925	5.1	19.0	9 18	23 36.26	+21 10.9	2.239	3.187	7.1	13.2
9 28	23 28.44	-17 22.2	1.991	2.940	7.6	19.2	9 28	23 27.16	+20 45.7	2.237	3.185	6.9	13.2
10 8	23 21.69	-17 44.7	2.066	2.955	10.6	19.4	10 8	23 18.92	+20 5.7	2.262	3.183	8.3	13.3
10 18	23 16.69	-17 47.9	2.163	2.969	13.3	19.6	10 18	23 12.22	+19 16.6	2.314	3.181	10.4	13.4
<b>58280</b>	1993 <i>UC</i> <sub>2</sub>		9 16.6	179°05	1°3/15.4	18	<b>185200</b>	2006 <i>TV</i> <sub>25</sub>		9 16.6	216°96	0°2/16.4	18
8 9	0 5.57	- 4 5.6	1.861	2.691	15.0	20.1	8 9	0 1.26	- 0 52.7	2.062	2.884	14.0	21.2
8 19	0 0.95	- 4 28.9	1.782	2.692	11.6	19.9	8 19	23 57.41	- 1 14.5	1.980	2.884	10.9	21.0
8 29	23 54.09	- 5 2.3	1.726	2.692	7.8	19.7	8 29	23 51.62	- 1 48.0	1.920	2.883	7.4	20.8
9 8	23 45.56	- 5 41.6	1.694	2.692	3.6	19.4	9 8	23 44.39	- 2 29.7	1.885	2.882	3.5	20.5
9 18	23 36.19	- 6 21.3	1.690	2.692	1.8	19.3	9 18	23 36.43	- 3 15.1	1.877	2.882	0.7	20.3
9 28	23 27.00	- 6 55.6	1.714	2.692	5.8	19.6	9 28	23 28.60	- 3 58.8	1.898	2.881	4.8	20.6
10 8	23 19.01	- 7 19.5	1.764	2.691	9.8	19.8	10 8	23 21.77	- 4 35.6	1.946	2.880	8.6	20.8
10 18	23 12.97	- 7 30.2	1.839	2.690	13.4	20.0	10 18	23 16.59	- 5 1.5	2.018	2.879	11.9	21.0
<b>449855</b>	2015 <i>LP</i> <sub>32</sub>		9 16.6	86°69	5°5/10.9	18	<b>57905</b>	2002 <i>EO</i> <sub>30</sub>		9 16.6	17°26	2°9/15.2	18
8 9	0 2.59	-14 38.5	1.874	2.728	13.8	20.9	8 9	0 6.89	- 8 48.8	0.961	1.843	21.7	17.8
8 19	23 58.52	-15 50.3	1.818	2.740	10.8	20.8	8 19	0 3.56	- 8 33.6	0.912	1.849	16.9	17.5
8 29	23 52.35	-17 4.3	1.786	2.751	7.7	20.6	8 29	23 56.59	- 8 25.7	0.878	1.856	11.4	17.3
9 8	23 44.68	-18 12.8	1.778	2.762	5.6	20.5	9 8	23 46.91	- 8 19.2	0.865	1.865	5.6	17.0
9 18	23 36.34	-19 8.5	1.798	2.773	6.2	20.6	9 18	23 36.03	- 8 7.6	0.873	1.875	3.5	16.9
9 28	23 28.33	-19 45.4	1.844	2.784	8.7	20.7	9 28	23 25.83	- 7 45.2	0.904	1.887	8.6	17.2
10 8	23 21.56	-20 0.7	1.914	2.795	11.7	21.0	10 8	23 17.93	- 7 9.0	0.957	1.900	14.0	17.6
10 18	23 16.66	-19 54.4	2.007	2.806	14.4	21.2	10 18	23 13.30	- 6 19.0	1.028	1.914	18.7	17.9
<b>107982</b>	2001 <i>FG</i> <sub>131</sub>		9 16.6	184°70	1°6/14.7	18	<b>451212</b>	2009 <i>WB</i> <sub>8</sub>		9 16.6	329°93	4°1/20.6	17
8 9	23 59.70	- 5 23.1	2.405	3.236	12.0	19.8	8 9	23 59.79	+ 9 46.6	2.034	2.815	15.5	21.0
8 19	23 55.89	- 5 59.4	2.325	3.236	9.2	19.6	8 19	23 56.48	+10 11.3	1.939	2.805	12.9	20.8
8 29	23 50.42	- 6 43.4	2.268	3.236	6.1	19.4	8 29	23 51.14	+10 19.3	1.864	2.796	9.8	20.6
9 8	23 43.76	- 7 31.1	2.237	3.236	2.9	19.2	9 8	23 44.23	+10 10.4	1.813	2.787	6.6	20.4
9 18	23 36.49	- 8 17.8	2.235	3.235	2.0	19.1	9 18	23 36.45	+ 9 46.1	1.787	2.778	4.2	20.3
9 28	23 29.36	- 8 58.7	2.262	3.235	5.0	19.3	9 28	23 28.68	+ 9 9.9	1.788	2.770	5.1	20.3
10 8	23 23.07	- 9 29.7	2.316	3.235	8.2	19.5	10 8	23 21.83	+ 8 27.4	1.815	2.762	8.2	20.5
10 18	23 18.18	- 9 48.4	2.394	3.234	11.1	19.7	10 18	23 16.67	+ 7 44.5	1.868	2.754	11.5	20.7
<b>97234</b>	1999 <i>XF</i> <sub>62</sub>		9 16.6	83°65	3°2/13.6	18	<b>442322</b>	2011 <i>SZ</i> <sub>129</sub>		9 16.6	326°29	2°9/14.2	18
8 9	0 3.43	- 8 40.7	1.788	2.635	14.7	19.8	8 9	0 1.47	- 7 39.8	1.672	2.524	15.3	21.3
8 19	23 59.30	- 9 23.6	1.722	2.642	11.4	19.6	8 19	23 58.13	- 8 10.3	1.591	2.514	11.9	21.0
8 29	23 52.96	-10 13.6	1.677	2.648	7.6	19.4	8 29	23 52.41	- 8 49.4	1.532	2.504	8.0	20.8
9 8	23 45.01	-11 4.6	1.658	2.654	4.1	19.2	9 8	23 44.87	- 9 31.7	1.497	2.495	4.1	20.5
9 18	23 36.30	-11 50.1	1.665	2.661	3.8	19.2	9 18	23 36.36	-10 10.6	1.487	2.486	3.4	20.5
9 28	23 27.88	-12 23.8	1.700	2.667	7.1	19.4	9 28	23 27.98	-10 39.4	1.504	2.477	7.1	20.7
10 8	23 20.71	-12 41.6	1.760	2.673	10.7	19.6	10 8	23 20.82	-10 53.3	1.546	2.469	11.2	20.9
10 18	23 15.49	-12 41.9	1.843	2.680	14.0	19.9	10 18	23 15.70	-10 49.9	1.610	2.462	14.9	21.1
<b>63264</b>	2001 <i>CP</i> <sub>5</sub>		9 16.6	98°89	3°9/13.1	18	<b>256448</b>	2007 <i>CR</i> <sub>41</sub>		9 16.6	283°79	2°8/19.3	18
8 9	0 2.81	- 7 10.4	1.481	2.338	16.7	19.4	8 9	0 2.09	+ 6 37.6	2.182	2.970	14.4	20.8
8 19	23 59.25	- 8 26.8	1.421	2.347	12.9	19.2	8 19	23 58.08	+ 6 53.3	2.087	2.961	11.8	20.6
8 29	23 53.14	- 9 54.8	1.382	2.355	8.6	19.0	8 29	23 52.12	+ 6 54.9	2.012	2.953	8.6	20.4
9 8	23 45.15	-11 25.7	1.367	2.364	4.7	18.8	9 8	23 44.67	+ 6 43.1	1.962	2.945	5.3	20.1
9 18	23 36.29	-12 49.6	1.378	2.372	4.7	18.8	9 18	23 36.40	+ 6 19.8	1.939	2.937	2.9	20.0
9 28	23 27.77	-13 57.1	1.415	2.381	8.4	19.0	9 28	23 28.16	+ 5 48.6	1.944	2.929	4.5	20.1
10 8	23 20.72	-14 42.1	1.477	2.389	12.5	19.3	10 8	23 20.81	+ 5 14.5	1.977	2.921	7.8	20.3
10 18	23 15.94	-15 2.6	1.560	2.397	16.1	19.5	10 18	23 15.06	+ 4 42.6	2.035	2.913	11.1	20.5
<b>51555</b>	2001 <i>FK</i> <sub>165</sub>		9 16.6	55°41	2°4/18.5	18	<b>344145</b>	2000 <i>KX</i> <sub>37</sub>		9 16.6	204°28</		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>24340</b>	2000 <i>AP</i> <sub>84</sub>		9 16.6 295°88	1.5°/19.6	18		<b>316695</b>	1996 <i>TE</i> <sub>9</sub>		9 16.6 342°00	32°5'/28.5	14	C
8 9	23 53.29	+ 7 0.5	4.249	5.016	8.2	19.2	8 9	0 48.90	-54 38.8	0.511	1.366	38.1	19.5
8 19	23 50.29	+ 6 53.0	4.142	5.005	6.7	19.1	8 19	0 45.56	-54 54.3	0.452	1.330	37.8	19.2
8 29	23 46.37	+ 6 37.3	4.058	4.993	4.9	18.9	8 29	0 30.68	-54 6.4	0.396	1.297	37.1	18.9
9 8	23 41.80	+ 6 14.2	4.001	4.982	3.0	18.8	9 8	0 4.91	-51 18.3	0.347	1.269	35.6	18.5
9 18	23 36.89	+ 5 45.3	3.973	4.971	1.6	18.7	9 18	23 33.15	-45 18.0	0.307	1.245	33.7	18.1
9 28	23 31.99	+ 5 12.8	3.975	4.960	2.4	18.7	9 28	23 3.67	-35 18.5	0.281	1.227	32.5	17.9
10 8	23 27.48	+ 4 39.0	4.007	4.949	4.3	18.9	10 8	22 42.61	-22 8.5	0.274	1.215	34.0	17.8
10 18	23 23.69	+ 4 6.6	4.066	4.938	6.2	19.0	10 18	22 31.46	- 8 15.0	0.291	1.209	38.0	18.1
<b>487879</b>	2015 <i>TS</i> <sub>133</sub>		9 16.6 258°74	4°6'/10.8	18		<b>162088</b>	1998 <i>OV</i> <sub>1</sub>		9 16.6 28°52	1°6'/15.3	18	
8 9	23 59.06	-14 28.3	2.375	3.224	11.5	20.9	8 9	23 59.59	- 2 48.8	1.423	2.278	17.4	19.9
8 19	23 55.48	-15 35.0	2.303	3.222	8.9	20.8	8 19	23 56.82	- 3 30.0	1.364	2.287	13.5	19.6
8 29	23 50.21	-16 44.4	2.255	3.220	6.4	20.6	8 29	23 51.54	- 4 25.8	1.324	2.296	8.9	19.4
9 8	23 43.70	-17 50.5	2.234	3.217	4.7	20.5	9 8	23 44.45	- 5 30.0	1.307	2.307	4.1	19.2
9 18	23 36.58	-18 47.2	2.240	3.215	5.2	20.5	9 18	23 36.50	- 6 34.8	1.315	2.318	2.1	19.1
9 28	23 29.60	-19 29.5	2.275	3.213	7.5	20.7	9 28	23 28.90	- 7 31.4	1.349	2.330	6.6	19.4
10 8	23 23.50	-19 54.1	2.334	3.210	10.1	20.8	10 8	23 22.74	- 8 13.2	1.407	2.342	11.1	19.7
10 18	23 18.84	-20 0.0	2.417	3.208	12.5	21.0	10 18	23 18.77	- 8 36.3	1.487	2.355	15.0	20.0
<b>484894</b>	2009 <i>QM</i> <sub>60</sub>		9 16.6 359°09	11°2'/25.3	17		<b>427327</b>	2014 <i>WJ</i> <sub>311</sub>		9 16.6 201°50	1°6'/15.5	17	
8 9	0 10.10	+23 31.4	1.946	2.629	19.1	20.5	8 9	0 7.43	- 4 2.0	1.522	2.361	17.3	21.5
8 19	0 5.06	+25 36.5	1.859	2.627	17.2	20.4	8 19	0 2.99	- 4 25.4	1.445	2.359	13.5	21.2
8 29	23 57.32	+27 22.5	1.790	2.626	15.0	20.2	8 29	23 55.81	- 5 1.2	1.389	2.357	9.1	21.0
9 8	23 47.34	+28 43.0	1.741	2.625	13.0	20.1	9 8	23 46.53	- 5 44.3	1.356	2.355	4.2	20.7
9 18	23 35.96	+29 33.2	1.715	2.625	11.5	20.0	9 18	23 36.16	- 6 28.3	1.349	2.352	2.1	20.5
9 28	23 24.39	+29 51.4	1.714	2.626	11.2	20.0	9 28	23 25.99	- 7 5.6	1.369	2.349	6.7	20.8
10 8	23 13.95	+29 41.2	1.736	2.627	12.2	20.0	10 8	23 17.28	- 7 30.2	1.414	2.345	11.4	21.1
10 18	23 5.71	+29 9.7	1.782	2.629	13.9	20.1	10 18	23 10.96	- 7 38.7	1.482	2.341	15.6	21.4
<b>305227</b>	2007 <i>XZ</i> <sub>13</sub>		9 16.6 345°71	2°2'/18.5	18		<b>58446</b>	1996 <i>HN</i> <sub>22</sub>		9 16.6 20°49	6°1'/12.3	18	
8 9	23 59.81	+ 4 28.1	1.592	2.415	17.4	20.7	8 9	0 2.62	-14 32.2	1.286	2.162	17.6	17.9
8 19	23 56.95	+ 4 33.6	1.510	2.409	14.0	20.5	8 19	23 59.38	-15 14.0	1.239	2.172	13.7	17.7
8 29	23 51.69	+ 4 21.4	1.448	2.404	10.0	20.3	8 29	23 53.31	-15 57.6	1.212	2.184	9.6	17.5
9 8	23 44.57	+ 3 52.9	1.408	2.399	5.6	20.0	9 8	23 45.27	-16 34.1	1.207	2.197	6.5	17.4
9 18	23 36.43	+ 3 12.0	1.393	2.395	2.2	19.8	9 18	23 36.40	-16 55.4	1.226	2.212	6.8	17.5
9 28	23 28.41	+ 2 24.8	1.404	2.392	5.2	20.0	9 28	23 28.09	-16 55.7	1.269	2.227	10.0	17.7
10 8	23 21.61	+ 1 38.7	1.440	2.389	9.6	20.2	10 8	23 21.52	-16 33.1	1.334	2.244	13.7	18.0
10 18	23 16.88	+ 1 0.2	1.499	2.387	13.7	20.5	10 18	23 17.44	-15 49.1	1.419	2.261	17.1	18.2
<b>330852</b>	2009 <i>PE</i> <sub>15</sub>		9 16.6 7°04	2°0'/18.4	18		<b>161058</b>	2002 <i>JK</i> <sub>78</sub>		9 16.6 74°67	0°5'/16.2	17	
8 9	23 57.20	+ 3 55.6	1.529	2.361	17.5	19.7	8 9	0 4.17	- 1 29.7	1.700	2.531	16.1	20.2
8 19	23 54.89	+ 4 0.5	1.458	2.363	14.0	19.5	8 19	23 59.90	- 1 53.2	1.639	2.548	12.5	20.0
8 29	23 50.24	+ 3 47.6	1.407	2.366	9.9	19.3	8 29	23 53.37	- 2 29.5	1.599	2.565	8.4	19.8
9 8	23 43.84	+ 3 19.0	1.378	2.371	5.5	19.0	9 8	23 45.24	- 3 14.0	1.583	2.581	3.9	19.6
9 18	23 36.56	+ 2 38.9	1.373	2.376	2.0	18.8	9 18	23 36.40	- 4 1.1	1.594	2.598	1.0	19.4
9 28	23 29.50	+ 1 53.9	1.394	2.383	5.1	19.0	9 28	23 27.92	- 4 44.2	1.632	2.614	5.4	19.8
10 8	23 23.70	+ 1 11.1	1.440	2.391	9.5	19.3	10 8	23 20.77	- 5 17.9	1.696	2.631	9.6	20.1
10 18	23 19.93	+ 0 36.7	1.509	2.400	13.4	19.6	10 18	23 15.64	- 5 38.6	1.784	2.647	13.2	20.3
<b>289675</b>	2005 <i>GA</i> <sub>149</sub>		9 16.6 39°76	0°9'/15.7	18		<b>181628</b>	2006 <i>XJ</i> <sub>7</sub>		9 16.6 345°72	4°6'/12.4	18	
8 9	23 59.33	- 1 12.2	1.819	2.654	15.0	20.7	8 9	0 0.41	-11 47.1	1.685	2.547	14.8	20.0
8 19	23 56.15	- 1 58.3	1.745	2.657	11.7	20.4	8 19	23 57.25	-12 36.5	1.614	2.541	11.5	19.8
8 29	23 50.89	- 2 58.4	1.693	2.660	7.8	20.2	8 29	23 51.77	-13 31.5	1.564	2.536	8.0	19.6
9 8	23 44.09	- 4 7.7	1.665	2.664	3.6	20.0	9 8	23 44.57	-14 24.9	1.539	2.531	5.0	19.4
9 18	23 36.54	- 5 19.7	1.664	2.667	1.4	19.8	9 18	23 36.50	-15 9.4	1.539	2.527	5.3	19.4
9 28	23 29.17	- 6 26.8	1.690	2.671	5.5	20.1	9 28	23 28.63	-15 38.3	1.564	2.524	8.4	19.6
10 8	23 22.90	- 7 22.5	1.743	2.675	9.6	20.4	10 8	23 21.99	-15 47.4	1.615	2.521	12.0	19.8
10 18	23 18.44	- 8 2.6	1.820	2.679	13.1	20.6	10 18	23 17.35	-15 35.8	1.686	2.518	15.3	20.0
<b>108544</b>	2001 <i>LO</i> <sub>9</sub>		9 16.6 136°75	0°2'/16.4	18		<b>307095</b>	2002 <i>AV</i> <sub>201</sub>		9 16.6 171°50	7°3'/10.3	18	
8 9	0 1.44	+ 0 47.3	2.384	3.191	12.8	20.8	8 9	0 8.97	-20 57.3	1.863	2.709	14.3	20.0
8 19	23 57.19	+ 0 2.6	2.309	3.204	10.0	20.6	8 19	0 3.65	-21 52.5	1.800	2.711	11.5	19.8
8 29	23 51.28	- 0 54.1	2.257	3.217	6.7	20.4	8 29	23 55.92	-22 44.5	1.760	2.712	8.9	19.7
9 8	23 44.18	- 1 59.0	2.232	3.229	3.1	20.2	9 8	23 46.46	-23 25.2	1.744	2.713	7.3	19.6
9 18	23 36.53	- 3 7.3	2.236	3.240	0.6	20.0	9 18	23 36.21	-23 47.7	1.755	2.713	8.0	19.7
9 28	23 29.07	- 4 13.4	2.269	3.251	4.2	20.3	9 28	23 26.31	-23 47.2	1.792	2.714	10.2	19.8
10 8	23 22.51	- 5 11.9	2.331	3.261	7.6	20.5	10 8	23 17.83	-23 22.8	1.853	2.714	13.0	20.0
10 18	23 17.39	- 5 59.2	2.419	3.271	10.5	20.8	10 18	23 11.51	-22 36.4	1.936	2.714	15.6	20.2
<b>324848</b>	2007 <i>LW</i> <sub>5</sub>		9 16.6 209°91	0°0'/16.6	18		<b>133271</b>	2003 <i>SN</i> <sub>4</sub>		9 16.6 353°95	2°7'/13.1	18	
8 9	23 57.36	+ 1 50.6	2.785	3.588	11.2	21.4	8 9	23 56.70	- 6 13.4	2.193	3.036	12.5	19.4
8 19	23 53.92	+ 0 57.2	2.691	3.583	8.8	21.2	8 19	23 53.80	- 7 28.8	2.117	3.036	9.6	19.2
8 29	23 49.06	- 0 8.4	2.620	3.578	6.0	21.0	8 29	23 49.17	- 8 53.8	2.064	3.035	6.4	19.0
9 8	23 43.15	- 1 22.8	2.577	3.573	2.8	20.8	9 8	23 43.27	-10 22.7	2.037	3.034	3.4	18.8
9 18	23 36.70	- 2 41.9	2.563	3.567	0.5	20.6	9 18	23 36.72	-11 48.4	2.039	3.034	3.3	18.8
9 28	23 30.30	- 4 0.1	2.579	3.561	3.8	20.9	9 28	23 30.30	-13 4.2	2.070	3.034	6.3	19.0
10 8	23 24.57	- 5 12.5	2.624	3.555	6.8	21.1	10 8	23 24.75	-14 4.6	2.126	3.033	9.5	19.2
10 18	23 20.01	- 6 14.7	2.697	3.548	9.6	21.2	10 18	23 20.67	-14 46.7	2.207	3.033	12.4	19.4
<b>130835</b>	2000 <i>US&lt;/</i>												

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>310022</b>	2009 <i>RJ</i> <sub>63</sub>		9 16.6 330°70	0°8/18.2	16		<b>129480</b>	1993 <i>UQ</i> <sub>8</sub>		9 16.6 325°59	0°1/16.7	17	
8 9	23 53.80	+ 3 14.4	4.104	4.890	8.2	21.2	8 9	23 54.60	+ 2 0.2	1.742	2.578	15.6	20.1
8 19	23 50.69	+ 3 3.1	4.009	4.888	6.5	21.1	8 19	23 52.84	+ 1 18.7	1.641	2.552	12.4	19.8
8 29	23 46.66	+ 2 44.7	3.938	4.886	4.5	20.9	8 29	23 48.95	+ 0 18.0	1.561	2.527	8.5	19.6
9 8	23 41.97	+ 2 20.4	3.894	4.884	2.4	20.8	9 8	23 43.36	- 0 58.6	1.505	2.503	4.1	19.3
9 18	23 36.95	+ 1 52.1	3.879	4.882	0.8	20.6	9 18	23 36.75	- 2 24.9	1.474	2.479	0.6	18.9
9 28	23 31.97	+ 1 22.1	3.895	4.880	2.4	20.8	9 28	23 30.08	- 3 52.5	1.471	2.456	5.4	19.2
10 8	23 27.42	+ 0 52.9	3.939	4.878	4.5	20.9	10 8	23 24.37	- 5 12.5	1.492	2.434	10.0	19.4
10 18	23 23.62	+ 0 26.6	4.012	4.876	6.4	21.0	10 18	23 20.45	- 6 17.6	1.537	2.413	14.2	19.7
<b>279796</b>	1999 <i>XJ</i> <sub>74</sub>		9 16.6 260°84	7°5/24.8	18		<b>308025</b>	2004 <i>RB</i> <sub>271</sub>		9 16.6 233°13	0°4/16.3	18	
8 9	0 0.66	+20 34.9	2.017	2.735	17.5	20.4	8 9	0 3.92	- 1 9.6	1.884	2.707	15.0	21.6
8 19	23 57.35	+21 4.7	1.920	2.727	15.3	20.2	8 19	23 59.80	- 1 30.0	1.796	2.700	11.8	21.3
8 29	23 51.86	+21 11.0	1.840	2.719	12.8	20.0	8 29	23 53.46	- 2 3.1	1.729	2.693	8.0	21.1
9 8	23 44.67	+20 51.2	1.780	2.711	10.1	19.9	9 8	23 45.41	- 2 45.3	1.688	2.685	3.8	20.8
9 18	23 36.49	+20 4.9	1.744	2.702	8.0	19.7	9 18	23 36.44	- 3 31.8	1.673	2.677	0.8	20.6
9 28	23 28.31	+18 55.2	1.734	2.694	7.6	19.7	9 28	23 27.55	- 4 16.3	1.686	2.669	5.3	20.9
10 8	23 21.11	+17 29.2	1.750	2.685	9.3	19.8	10 8	23 19.75	- 4 53.1	1.727	2.661	9.5	21.1
10 18	23 15.72	+15 55.6	1.790	2.677	11.9	19.9	10 18	23 13.83	- 5 17.9	1.791	2.652	13.2	21.4
<b>511468</b>	2014 <i>KX</i> <sub>80</sub>		9 16.6 202°71	4°7/22.6	18		<b>321462</b>	2009 <i>RY</i> <sub>36</sub>		9 16.6 34°35	4°6/20.5	18	
8 9	0 1.01	+16 20.8	2.510	3.236	14.3	22.3	8 9	0 0.14	+10 25.7	1.301	2.115	21.0	19.7
8 19	23 57.04	+16 15.7	2.408	3.231	12.1	22.1	8 19	23 57.62	+10 32.3	1.236	2.123	17.3	19.5
8 29	23 51.33	+15 51.2	2.326	3.226	9.6	21.9	8 29	23 52.33	+10 11.7	1.188	2.132	12.9	19.3
9 8	23 44.30	+15 7.1	2.268	3.220	7.0	21.7	9 8	23 44.95	+ 9 24.5	1.161	2.142	8.3	19.1
9 18	23 36.57	+14 5.1	2.236	3.214	5.0	21.6	9 18	23 36.52	+ 8 15.3	1.156	2.152	4.8	18.9
9 28	23 28.87	+12 49.1	2.233	3.207	5.1	21.6	9 28	23 28.39	+ 6 52.7	1.176	2.163	6.2	19.0
10 8	23 21.97	+11 25.3	2.259	3.199	7.2	21.7	10 8	23 21.83	+ 5 28.0	1.219	2.174	10.4	19.3
10 18	23 16.49	+10 0.3	2.312	3.191	9.9	21.9	10 18	23 17.72	+ 4 11.4	1.286	2.186	14.7	19.6
<b>101142</b>	Sakka		9 16.6 334°69	9°8/ 8.3	18		<b>283141</b>	2008 <i>YW</i> <sub>26</sub>		9 16.6 191°12	7°4/25.7	18	
8 9	23 59.67	-21 26.8	1.348	2.229	16.6	15.3	8 9	0 1.44	+22 49.4	2.231	2.922	16.7	20.7
8 19	23 57.52	-22 46.6	1.279	2.209	13.7	15.0	8 19	23 57.71	+23 10.7	2.136	2.921	14.7	20.5
8 29	23 52.45	-24 5.0	1.229	2.189	11.0	14.8	8 29	23 51.96	+23 8.5	2.058	2.920	12.3	20.3
9 8	23 45.07	-25 10.3	1.201	2.170	9.8	14.7	9 8	23 44.68	+22 40.8	2.001	2.918	9.9	20.2
9 18	23 36.44	-25 51.3	1.196	2.153	11.0	14.7	9 18	23 36.56	+21 47.4	1.968	2.916	8.0	20.1
9 28	23 27.97	-25 59.7	1.212	2.137	13.8	14.9	9 28	23 28.48	+20 31.7	1.961	2.914	7.5	20.0
10 8	23 21.06	-25 32.9	1.249	2.122	17.2	15.0	10 8	23 21.37	+19 0.3	1.981	2.911	8.7	20.1
10 18	23 16.72	-24 33.4	1.303	2.108	20.4	15.2	10 18	23 15.93	+17 21.2	2.027	2.908	11.0	20.2
<b>521971</b>	2015 <i>VB</i> <sub>162</sub>		9 16.6 15°51	0°5/16.1	18		<b>393793</b>	2005 <i>MU</i> <sub>25</sub>		9 16.6 105°96	4°1/11.8	18	
8 9	23 58.37	- 0 56.9	2.209	3.034	13.1	21.5	8 9	23 59.89	-10 34.3	2.073	2.922	12.9	20.9
8 19	23 55.06	- 1 32.6	2.129	3.034	10.2	21.3	8 19	23 56.32	-11 53.8	2.009	2.930	9.9	20.7
8 29	23 50.00	- 2 19.8	2.071	3.035	6.8	21.1	8 29	23 50.88	-13 19.4	1.969	2.938	6.8	20.5
9 8	23 43.67	- 3 14.8	2.038	3.036	3.2	20.9	9 8	23 44.09	-14 44.0	1.955	2.945	4.4	20.4
9 18	23 36.69	- 4 12.8	2.033	3.037	0.9	20.7	9 18	23 36.66	-16 0.4	1.969	2.953	4.8	20.4
9 28	23 29.84	- 5 8.1	2.057	3.039	4.6	21.0	9 28	23 29.45	-17 2.1	2.010	2.960	7.5	20.6
10 8	23 23.88	- 5 55.5	2.108	3.040	8.2	21.2	10 8	23 23.24	-17 44.7	2.077	2.968	10.5	20.8
10 18	23 19.40	- 6 31.2	2.184	3.042	11.3	21.4	10 18	23 18.67	-18 6.8	2.167	2.975	13.2	21.0
<b>521554</b>	2015 <i>OX</i> <sub>102</sub>		9 16.6 217°07	3°1/20.4	18		<b>13894</b>	2039 <i>T-2</i>		9 16.6 160°74	0°5/16.3	18	
8 9	23 58.49	+10 25.5	2.319	3.091	14.1	21.7	8 9	0 7.08	- 2 7.9	1.642	2.471	16.6	17.9
8 19	23 55.14	+10 14.0	2.228	3.090	11.6	21.5	8 19	0 2.48	- 2 18.0	1.566	2.474	13.1	17.7
8 29	23 50.07	+ 9 45.2	2.158	3.089	8.7	21.3	8 29	23 55.34	- 2 40.4	1.511	2.476	8.8	17.5
9 8	23 43.71	+ 8 59.9	2.112	3.088	5.6	21.1	9 8	23 46.31	- 3 11.3	1.480	2.478	4.1	17.2
9 18	23 36.68	+ 8 1.2	2.092	3.087	3.2	21.0	9 18	23 36.31	- 3 45.6	1.475	2.479	1.0	17.0
9 28	23 29.74	+ 6 53.8	2.101	3.086	4.2	21.0	9 28	23 26.53	- 4 16.9	1.498	2.481	5.8	17.3
10 8	23 23.63	+ 5 43.8	2.138	3.084	7.2	21.2	10 8	23 18.13	- 4 39.8	1.547	2.482	10.3	17.6
10 18	23 18.96	+ 4 37.2	2.202	3.083	10.2	21.4	10 18	23 11.93	- 4 50.5	1.619	2.483	14.2	17.8
<b>395948</b>	2013 <i>AE</i> <sub>129</sub>		9 16.6 238°87	0°7/17.4	18		<b>221432</b>	2005 <i>YV</i> <sub>237</sub>		9 16.6 141°07	1°2/18.2	18	
8 9	0 0.18	+ 2 42.7	2.063	2.875	14.3	21.1	8 9	23 59.43	+ 4 24.7	2.667	3.457	12.0	21.6
8 19	23 56.66	+ 2 16.6	1.975	2.871	11.4	20.9	8 19	23 55.54	+ 4 5.9	2.583	3.464	9.6	21.5
8 29	23 51.20	+ 1 35.6	1.909	2.866	7.9	20.6	8 29	23 50.16	+ 3 35.1	2.521	3.470	6.7	21.3
9 8	23 44.29	+ 0 42.6	1.867	2.862	4.0	20.4	9 8	23 43.71	+ 2 54.4	2.486	3.476	3.6	21.1
9 18	23 36.60	- 0 17.8	1.853	2.857	0.8	20.1	9 18	23 36.73	+ 2 7.0	2.479	3.482	1.2	21.0
9 28	23 29.00	- 1 19.7	1.867	2.853	4.5	20.4	9 28	23 29.87	+ 1 17.0	2.502	3.487	3.5	21.1
10 8	23 22.34	- 2 16.7	1.908	2.848	8.4	20.7	10 8	23 23.76	+ 0 28.9	2.553	3.493	6.5	21.3
10 18	23 17.32	- 3 3.7	1.975	2.843	11.8	20.9	10 18	23 18.91	- 0 13.3	2.631	3.498	9.3	21.5
<b>147552</b>	2004 <i>EV</i> <sub>85</sub>		9 16.6 169°30	2°5/14.4	17		<b>342737</b>	2008 <i>WV</i> <sub>48</sub>		9 16.6 269°62	0°4/17.0	18	
8 9	0 5.16	- 6 8.5	1.761	2.600	15.3	20.6	8 9	0 1.38	+ 1 35.3	1.890	2.709	15.2	21.1
8 19	0 0.79	- 6 52.6	1.688	2.603	11.8	20.4	8 19	23 57.93	+ 1 9.6	1.792	2.693	12.1	20.8
8 29	23 54.09	- 7 46.7	1.636	2.605	7.9	20.2	8 29	23 52.28	+ 0 28.3	1.715	2.675	8.3	20.6
9 8	23 45.67	- 8 44.9	1.609	2.607	3.9	20.0	9 8	23 44.91	- 0 25.9	1.662	2.658	4.1	20.3
9 18	23 36.39	- 9 40.4	1.610	2.609	3.1	19.9	9 18	23 36.52	- 1 28.0	1.636	2.640	0.6	20.0
9 28	23 27.34	-10 26.2	1.637	2.610	6.7	20.2	9 28	23 28.11	- 2 31.4	1.637	2.622	5.1	20.3
10 8	23 19.54	-10 57.0	1.691	2.610	10.7	20.4	10 8	23 20.68	- 3 28.9	1.666	2.604	9.4	20.5
10 18	23 13.77	-11 10.3	1.768	2.610	14.2	20.6	10 18	23 15.06	- 4 14.9	1.718	2.586	13.3	20.7
<b>262744</b>	2006 <i>XA</i> <sub>50</sub>		9 16.6 53°66	5°5/10.3	18		<b>237370</b>	1994 <i>WN</i> <sub>8</sub>					

EPHEMERIDES

9 16.6

9 16.7

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>259824</b>	2004 <i>CK</i> <sub>4</sub>		9 16.6 235°08	4°0/13.1	18		<b>24492</b>	Nathanmonroe		9 16.6 87°50	0°8/15.9	18	
8 9	0 3.52	- 8 32.9	1.610	2.463	15.8	20.5	8 9	0 2.58	- 1 43.5	1.783	2.615	15.4	19.0
8 19	23 59.85	- 9 35.7	1.535	2.458	12.3	20.2	8 19	23 58.70	- 2 15.3	1.714	2.623	12.0	18.8
8 29	23 53.66	-10 48.8	1.481	2.452	8.3	20.0	8 29	23 52.64	- 2 59.9	1.665	2.632	8.0	18.6
9 8	23 45.55	-12 4.4	1.451	2.447	4.7	19.8	9 8	23 44.99	- 3 52.7	1.642	2.640	3.7	18.3
9 18	23 36.44	-13 14.0	1.448	2.441	4.7	19.7	9 18	23 36.59	- 4 47.8	1.644	2.648	1.2	18.2
9 28	23 27.48	-14 8.9	1.470	2.434	8.3	19.9	9 28	23 28.43	- 5 38.6	1.675	2.657	5.5	18.5
10 8	23 19.84	-14 43.3	1.518	2.428	12.3	20.2	10 8	23 21.48	- 6 19.2	1.732	2.665	9.6	18.7
10 18	23 14.37	-14 54.9	1.587	2.421	16.0	20.4	10 18	23 16.44	- 6 45.8	1.813	2.673	13.1	19.0
<b>444039</b>	2004 <i>PJ</i> <sub>83</sub>		9 16.6 27°91	0°1/16.5	18		<b>516959</b>	2012 <i>DV</i> <sub>36</sub>		9 16.6 192°51	1°6/14.3	18	
8 9	0 4.68	- 2 43.1	1.765	2.596	15.6	20.0	8 9	23 57.96	- 3 49.3	2.823	3.645	10.6	21.6
8 19	0 0.30	- 2 32.6	1.697	2.605	12.2	19.8	8 19	23 54.38	- 4 56.6	2.736	3.643	8.2	21.5
8 29	23 53.69	- 2 31.8	1.650	2.614	8.2	19.5	8 29	23 49.40	- 6 12.9	2.674	3.641	5.4	21.3
9 8	23 45.46	- 2 37.8	1.627	2.625	3.9	19.3	9 8	23 43.38	- 7 34.0	2.640	3.638	2.6	21.1
9 18	23 36.47	- 2 46.8	1.631	2.635	0.7	19.1	9 18	23 36.84	- 8 54.8	2.636	3.636	2.0	21.0
9 28	23 27.78	- 2 54.4	1.662	2.646	5.1	19.4	9 28	23 30.38	-10 9.9	2.663	3.632	4.6	21.2
10 8	23 20.35	- 2 56.7	1.720	2.658	9.2	19.7	10 8	23 24.58	-11 14.9	2.717	3.629	7.5	21.4
10 18	23 14.92	- 2 50.8	1.802	2.670	12.8	20.0	10 18	23 19.94	-12 6.4	2.798	3.625	10.0	21.6
<b>514575</b>	1999 <i>UY</i> <sub>28</sub>		9 16.6 310°25	4°6/13.2	18		<b>258895</b>	2002 <i>QQ</i> <sub>75</sub>		9 16.7 177°81	2°4/14.4	18	
8 9	0 4.82	-11 56.8	1.570	2.427	15.9	21.2	8 9	0 2.52	- 3 58.5	1.606	2.451	16.2	20.5
8 19	0 1.08	-12 27.1	1.485	2.409	12.5	20.9	8 19	23 59.00	- 5 1.3	1.533	2.452	12.6	20.2
8 29	23 54.66	-13 2.7	1.420	2.391	8.7	20.6	8 29	23 53.05	- 6 18.4	1.481	2.452	8.4	20.0
9 8	23 46.11	-13 36.7	1.379	2.373	5.3	20.4	9 8	23 45.27	- 7 43.0	1.454	2.453	4.0	19.7
9 18	23 36.36	-14 1.9	1.364	2.355	5.2	20.4	9 18	23 36.55	- 9 6.8	1.453	2.453	3.0	19.7
9 28	23 26.68	-14 11.4	1.374	2.338	8.7	20.5	9 28	23 28.03	-10 20.3	1.479	2.453	7.1	19.9
10 8	23 18.33	-14 1.4	1.408	2.322	12.9	20.7	10 8	23 20.81	-11 16.5	1.530	2.452	11.4	20.2
10 18	23 12.28	-13 30.9	1.464	2.305	16.7	20.9	10 18	23 15.70	-11 51.5	1.604	2.451	15.2	20.4
<b>218165</b>	2002 <i>RG</i> <sub>245</sub>		9 16.6 348°52	0°7/17.1	18 R		<b>103840</b>	2000 <i>DU</i> <sub>32</sub>		9 16.7 68°70	3°2/19.4	18	
8 9	23 56.32	- 1 2.6	0.959	1.841	21.7	19.5	8 9	0 6.61	+ 6 13.9	1.839	2.632	16.5	19.3
8 19	23 55.64	- 0 39.9	0.891	1.827	17.3	19.2	8 19	0 1.78	+ 6 44.2	1.767	2.645	13.4	19.1
8 29	23 51.62	- 0 34.8	0.839	1.815	12.0	18.8	8 29	23 54.71	+ 6 59.1	1.716	2.658	9.8	18.9
9 8	23 44.87	- 0 44.5	0.806	1.805	6.0	18.5	9 8	23 45.98	+ 6 58.9	1.688	2.671	6.0	18.7
9 18	23 36.55	- 1 4.0	0.793	1.797	1.0	18.1	9 18	23 36.45	+ 6 45.9	1.686	2.684	3.3	18.6
9 28	23 28.38	- 1 25.0	0.801	1.792	7.2	18.5	9 28	23 27.17	+ 6 24.0	1.712	2.697	5.0	18.7
10 8	23 22.03	- 1 38.9	0.830	1.788	13.3	18.8	10 8	23 19.14	+ 5 58.6	1.766	2.710	8.6	19.0
10 18	23 18.71	- 1 39.4	0.877	1.787	18.7	19.1	10 18	23 13.10	+ 5 35.0	1.844	2.723	12.0	19.2
<b>189885</b>	2003 <i>RO</i> <sub>17</sub>		9 16.6 286°50	3°8/20.8	17		<b>338862</b>	2003 <i>YO</i> <sub>130</sub>		9 16.7 312°74	5°2/20.5	18	
8 9	0 0.63	+10 36.5	2.404	3.168	13.9	20.0	8 9	0 1.58	+ 9 34.3	1.617	2.414	18.2	20.6
8 19	23 56.91	+10 55.1	2.296	3.151	11.6	19.8	8 19	23 58.71	+10 16.2	1.513	2.388	15.3	20.3
8 29	23 51.37	+10 58.7	2.209	3.133	8.9	19.6	8 29	23 53.24	+10 39.8	1.426	2.362	11.9	20.1
9 8	23 44.42	+10 47.1	2.145	3.115	6.0	19.4	9 8	23 45.57	+10 43.3	1.361	2.337	8.1	19.8
9 18	23 36.64	+10 21.3	2.109	3.098	4.0	19.2	9 18	23 36.48	+10 26.7	1.320	2.311	5.4	19.6
9 28	23 28.80	+ 9 44.4	2.100	3.080	4.7	19.3	9 28	23 27.15	+ 9 53.2	1.304	2.287	6.5	19.6
10 8	23 21.71	+ 9 1.2	2.119	3.062	7.4	19.4	10 8	23 18.87	+ 9 9.4	1.313	2.262	10.3	19.7
10 18	23 16.04	+ 8 16.8	2.164	3.045	10.4	19.6	10 18	23 12.75	+ 8 23.3	1.345	2.239	14.5	19.9
<b>145126</b>	2005 <i>GV</i> <sub>144</sub>		9 16.6 38°89	1°2/15.9	17		<b>96290</b>	1996 <i>HZ</i> <sub>17</sub>		9 16.7 188°50	4°7/13.0	18	
8 9	0 7.02	- 4 4 5.5	1.194	2.051	19.9	19.6	8 9	0 7.53	-10 40.8	1.496	2.350	16.8	18.5
8 19	0 3.09	- 4 4 6.3	1.138	2.061	15.6	19.4	8 19	0 3.12	-11 32.5	1.427	2.350	13.0	18.3
8 29	23 56.04	- 4 19.9	1.100	2.072	10.4	19.2	8 29	23 55.94	-12 31.6	1.379	2.350	8.9	18.1
9 8	23 46.69	- 4 41.3	1.083	2.083	4.8	18.9	9 8	23 46.67	-13 30.0	1.355	2.349	5.4	17.9
9 18	23 36.30	- 5 3.9	1.090	2.094	1.7	18.7	9 18	23 36.35	-14 19.1	1.357	2.348	5.3	17.9
9 28	23 26.41	- 5 20.8	1.122	2.106	7.0	19.1	9 28	23 26.32	-14 51.1	1.384	2.346	8.9	18.1
10 8	23 18.42	- 5 26.2	1.178	2.119	12.2	19.4	10 8	23 17.83	-15 1.6	1.436	2.345	13.0	18.3
10 18	23 13.23	- 5 17.3	1.254	2.132	16.6	19.7	10 18	23 11.79	-14 49.7	1.509	2.343	16.7	18.5
<b>18832</b>	1999 <i>NV</i> <sub>42</sub>		9 16.6 87°86	1°3/17.9	18 R		<b>188435</b>	2004 <i>FY</i> <sub>117</sub>		9 16.7 165°95	0°2/16.5	18	
8 9	0 4.17	+ 2 28.4	2.177	2.978	14.0	19.0	8 9	0 1.87	+ 1 30.0	1.687	2.513	16.4	20.9
8 19	23 59.50	+ 2 33.7	2.102	2.990	11.1	18.8	8 19	23 58.39	+ 0 44.2	1.609	2.515	12.9	20.7
8 29	23 52.96	+ 2 27.1	2.050	3.002	7.8	18.6	8 29	23 52.59	- 0 19.4	1.553	2.516	8.8	20.5
9 8	23 45.08	+ 2 10.7	2.023	3.015	4.1	18.4	9 8	23 45.05	- 1 36.3	1.520	2.518	4.1	20.2
9 18	23 36.56	+ 1 47.4	2.024	3.027	1.3	18.2	9 18	23 36.61	- 2 59.6	1.515	2.519	0.7	19.9
9 28	23 28.25	+ 1 21.2	2.053	3.039	4.1	18.4	9 28	23 28.35	- 4 20.5	1.536	2.520	5.5	20.3
10 8	23 20.97	+ 0 56.6	2.111	3.051	7.6	18.7	10 8	23 21.30	- 5 31.0	1.584	2.521	10.0	20.6
10 18	23 15.33	+ 0 37.4	2.194	3.063	10.8	18.9	10 18	23 16.26	- 6 25.4	1.656	2.521	13.9	20.8
<b>160691</b>	2000 <i>HO</i> <sub>13</sub>		9 16.6 125°00	0°7/17.3	17		<b>391871</b>	2008 <i>TG</i> <sub>109</sub>		9 16.7 185°04	2°2/19.3	18	
8 9	0 4.74	+ 2 29.8	1.874	2.684	15.6	21.0	8 9	23 58.26	+10 54.2	1.828	2.616	16.8	20.9
8 19	0 0.24	+ 2 4.0	1.803	2.697	12.3	20.8	8 19	23 55.46	+ 9 45.4	1.740	2.616	13.7	20.7
8 29	23 53.60	+ 1 22.9	1.753	2.711	8.5	20.6	8 29	23 50.56	+ 8 9.8	1.673	2.616	9.9	20.4
9 8	23 45.42	+ 0 29.9	1.728	2.723	4.2	20.3	9 8	23 44.07	+ 6 10.6	1.629	2.615	5.8	20.2
9 18	23 36.51	- 0 29.8	1.731	2.735	0.8	20.1	9 18	23 36.77	+ 3 54.8	1.614	2.615	2.3	20.0
9 28	23 27.86	- 1 29.6	1.762	2.747	4.8	20.4	9 28	23 29.59	+ 1 32.5	1.627	2.615	4.7	20.1
10 8	23 20.41	- 2 23.2	1.820	2.758	8.8	20.7	10 8	23 23.48	- 0 44.5	1.668	2.614	8.9	20.4
10 18	23 14.85	- 3 5.6	1.903	2.769	12.3	20.9	10 18	23 19.16	- 2 46.7	1.736	2.614	12.7	20.6
<b>441452</b>	2008 <i>KV</i> <sub>33</sub>		9 16.6 8°60	3°4/20.7	17		<b>58222</b>	1993 <i>FA</i> <sub>18</sub>		9 1			



EPHEMERIDES

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>487217</b>	2014 <i>OL</i> <sub>386</sub>		9 16.7 164°44	3°4/20.6	18		<b>163874</b>	2003 <i>SW</i> <sub>147</sub>		9 16.7 274°78	7°3/25.7	18	
8 9	0 0.28	+10 15.9	2.389	3.156	13.9	21.3	8 9	23 58.22	+22 54.7	1.964	2.673	18.2	19.7
8 19	23 56.50	+10 21.5	2.299	3.156	11.5	21.1	8 19	23 55.51	+22 51.8	1.867	2.667	16.0	19.6
8 29	23 50.99	+10 11.2	2.230	3.157	8.6	20.9	8 29	23 50.67	+22 20.4	1.787	2.662	13.3	19.4
9 8	23 44.21	+9 45.8	2.185	3.158	5.7	20.7	9 8	23 44.19	+21 18.3	1.727	2.656	10.4	19.2
9 18	23 36.76	+9 7.3	2.166	3.158	3.5	20.6	9 18	23 36.81	+19 46.4	1.691	2.651	8.1	19.0
9 28	23 29.38	+8 19.4	2.177	3.159	4.3	20.7	9 28	23 29.48	+17 49.9	1.681	2.645	7.4	19.0
10 8	23 22.84	+7 27.6	2.215	3.159	7.1	20.8	10 8	23 23.19	+15 38.2	1.698	2.640	9.0	19.1
10 18	23 17.74	+6 37.0	2.279	3.160	10.0	21.0	10 18	23 18.70	+13 22.2	1.741	2.634	11.8	19.2
<b>102942</b>	1999 <i>XX</i> <sub>50</sub>		9 16.7 34°29	7°4/11.1	18		<b>402821</b>	2007 <i>EK</i> <sub>115</sub>		9 16.7 158°36	3°5/12.6	18	
8 9	0 3.34	-14 46.7	1.200	2.079	18.4	19.1	8 9	0 2.45	-12 34.2	2.479	3.317	11.4	21.0
8 19	0 0.26	-16 5.2	1.153	2.088	14.4	18.9	8 19	23 58.02	-13 12.6	2.406	3.320	8.8	20.8
8 29	23 54.14	-17 27.2	1.126	2.097	10.3	18.7	8 29	23 51.92	-13 53.5	2.357	3.322	6.1	20.6
9 8	23 45.81	-18 40.8	1.120	2.107	7.6	18.6	9 8	23 44.63	-14 32.3	2.334	3.324	3.9	20.5
9 18	23 36.52	-19 35.1	1.138	2.117	8.3	18.7	9 18	23 36.76	-15 4.3	2.340	3.326	4.0	20.5
9 28	23 27.77	-20 1.7	1.179	2.128	11.6	18.9	9 28	23 29.07	-15 25.3	2.374	3.327	6.3	20.7
10 8	23 20.87	-19 58.2	1.241	2.140	15.4	19.2	10 8	23 22.27	-15 32.8	2.435	3.329	9.0	20.8
10 18	23 16.66	-19 26.3	1.322	2.152	18.8	19.4	10 18	23 16.92	-15 25.8	2.520	3.330	11.5	21.0
<b>258800</b>	2002 <i>LR</i> <sub>20</sub>		9 16.7 57°17	6°3/22.0	17		<b>5514</b>	Karelraška		9 16.7 275°96	1°6/15.1	18	
8 9	0 5.74	+13 55.9	1.253	2.046	22.8	20.1	8 9	0 0.46	-2 32.8	1.812	2.650	15.0	17.6
8 19	0 1.87	+14 18.6	1.206	2.074	19.0	20.0	8 19	23 57.34	-3 25.0	1.718	2.631	11.7	17.4
8 29	23 55.07	+14 10.9	1.174	2.102	14.6	19.8	8 29	23 51.99	-4 32.3	1.644	2.613	7.9	17.1
9 8	23 46.20	+13 32.9	1.162	2.131	10.0	19.6	9 8	23 44.87	-5 49.7	1.596	2.595	3.7	16.8
9 18	23 36.47	+12 28.7	1.172	2.160	6.7	19.5	9 18	23 36.72	-7 10.2	1.574	2.576	2.1	16.7
9 28	23 27.34	+11 7.0	1.207	2.189	7.1	19.6	9 28	23 28.54	-8 25.4	1.580	2.557	6.3	16.9
10 8	23 20.06	+9 39.7	1.267	2.218	10.5	19.9	10 8	23 21.38	-9 27.8	1.611	2.538	10.6	17.1
10 18	23 15.43	+8 17.5	1.349	2.247	14.2	20.2	10 18	23 16.08	-10 12.3	1.666	2.519	14.5	17.3
<b>385846</b>	2006 <i>KK</i> <sub>9</sub>		9 16.7 123°93	1°9/14.8	18		<b>325460</b>	2009 <i>QV</i> <sub>44</sub>		9 16.7 320°45	0°3/17.1	18	
8 9	0 4.34	-5 25.9	1.949	2.782	14.3	21.5	8 9	23 57.07	+2 5.0	2.015	2.836	14.3	20.7
8 19	23 59.87	-6 1.2	1.880	2.791	11.0	21.3	8 19	23 54.38	+1 31.0	1.923	2.825	11.3	20.5
8 29	23 53.34	-6 45.4	1.833	2.800	7.3	21.1	8 29	23 49.79	+0 41.5	1.853	2.814	7.8	20.2
9 8	23 45.32	-7 33.6	1.811	2.809	3.5	20.9	9 8	23 43.74	-0 20.3	1.808	2.804	3.8	20.0
9 18	23 36.60	-8 20.1	1.817	2.817	2.4	20.8	9 18	23 36.90	-1 29.3	1.789	2.794	0.5	19.7
9 28	23 28.14	-8 59.1	1.851	2.825	5.8	21.1	9 28	23 30.10	-2 39.0	1.798	2.784	4.6	20.0
10 8	23 20.82	-9 26.0	1.911	2.833	9.5	21.3	10 8	23 24.21	-3 42.6	1.834	2.774	8.6	20.2
10 18	23 15.32	-9 38.4	1.996	2.840	12.8	21.5	10 18	23 19.90	-4 34.6	1.895	2.765	12.2	20.4
<b>51392</b>	2001 <i>DW</i> <sub>30</sub>		9 16.7 65°34	1°0/15.9	18		<b>147748</b>	2005 <i>NB</i> <sub>84</sub>		9 16.7 257°67	0°6/17.2	18	
8 9	0 9.13	-4 29.6	1.675	2.506	16.3	18.7	8 9	0 2.78	+1 57.6	1.599	2.425	17.1	20.9
8 19	0 3.72	-4 29.7	1.619	2.528	12.6	18.5	8 19	23 59.34	+1 37.5	1.516	2.420	13.6	20.7
8 29	23 55.94	-4 38.7	1.584	2.550	8.4	18.3	8 29	23 53.40	+0 59.7	1.453	2.415	9.4	20.5
9 8	23 46.52	-4 52.7	1.574	2.572	3.9	18.1	9 8	23 45.54	+0 7.6	1.414	2.410	4.7	20.2
9 18	23 36.43	-5 7.1	1.591	2.594	1.4	18.0	9 18	23 36.63	-0 53.3	1.400	2.405	0.7	19.9
9 28	23 26.83	-5 17.1	1.635	2.616	5.6	18.3	9 28	23 27.82	-1 55.2	1.413	2.399	5.5	20.2
10 8	23 18.72	-5 19.0	1.706	2.638	9.7	18.6	10 8	23 20.27	-2 50.4	1.452	2.394	10.2	20.5
10 18	23 12.79	-5 10.5	1.801	2.660	13.2	18.9	10 18	23 14.86	-3 32.8	1.513	2.388	14.4	20.7
<b>411496</b>	2011 <i>AK</i> <sub>63</sub>		9 16.7 278°61	0°6/17.3	17		<b>252723</b>	2002 <i>CU</i> <sub>226</sub>		9 16.7 190°48	3°1/20.0	18	
8 9	23 59.78	+1 26.2	2.424	3.232	12.6	21.8	8 9	0 2.26	+8 32.1	2.402	3.173	13.7	20.6
8 19	23 56.14	+1 12.3	2.324	3.217	10.0	21.6	8 19	23 58.04	+8 44.1	2.311	3.173	11.2	20.4
8 29	23 50.79	+0 47.0	2.246	3.203	6.9	21.4	8 29	23 52.06	+8 41.9	2.240	3.172	8.4	20.2
9 8	23 44.15	+0 12.5	2.194	3.189	3.5	21.2	9 8	23 44.76	+8 26.0	2.194	3.171	5.3	20.1
9 18	23 36.78	-0 27.8	2.170	3.175	0.6	20.9	9 18	23 36.76	+7 58.3	2.176	3.170	3.1	19.9
9 28	23 29.42	-1 9.6	2.175	3.160	4.0	21.2	9 28	23 28.82	+7 22.3	2.186	3.169	4.2	20.0
10 8	23 22.82	-1 48.1	2.208	3.146	7.5	21.3	10 8	23 21.72	+6 42.7	2.224	3.168	7.1	20.2
10 18	23 17.60	-2 19.4	2.266	3.131	10.6	21.5	10 18	23 16.09	+6 4.2	2.289	3.166	10.1	20.4
<b>399</b>	Persephone		9 16.7 173°22	0°9/17.6	18		<b>68273</b>	2001 <i>EQ</i> <sub>26</sub>		9 16.7 8°24	5°1/19.4	18	
8 9	0 3.84	+1 17.3	2.479	3.277	12.6	14.3	8 9	0 12.13	+5 20.5	1.608	2.404	18.4	17.1
8 19	23 59.12	+1 21.0	2.391	3.278	10.0	14.1	8 19	0 6.64	+6 58.3	1.530	2.406	15.2	16.9
8 29	23 52.68	+1 14.9	2.326	3.279	6.9	13.9	8 29	23 58.35	+8 24.7	1.472	2.410	11.4	16.7
9 8	23 44.99	+1 0.8	2.287	3.280	3.6	13.7	9 8	23 47.90	+9 37.1	1.438	2.415	7.6	16.4
9 18	23 36.66	+0 41.3	2.277	3.281	0.9	13.5	9 18	23 36.27	+10 33.2	1.431	2.422	5.2	16.3
9 28	23 28.44	+0 20.0	2.296	3.281	3.8	13.7	9 28	23 24.81	+11 13.3	1.451	2.429	6.6	16.4
10 8	23 21.06	+0 0.4	2.344	3.282	7.1	14.0	10 8	23 14.81	+11 40.7	1.497	2.437	10.1	16.7
10 18	23 15.13	-0 14.0	2.418	3.282	10.1	14.2	10 18	23 7.25	+12 0.0	1.567	2.447	13.7	16.9
<b>377601</b>	2005 <i>QB</i> <sub>153</sub>		9 16.7 79°12	4°2/20.3	18		<b>290490</b>	2005 <i>UT</i> <sub>10</sub>		9 16.7 286°94	2°8/19.9	18	
8 9	0 4.41	+9 38.3	1.547	2.342	19.0	20.5	8 9	23 58.31	+9 2.4	2.166	2.950	14.6	21.0
8 19	0 0.54	+9 51.4	1.478	2.354	15.6	20.3	8 19	23 55.22	+8 47.2	2.071	2.943	12.0	20.8
8 29	23 54.12	+9 42.3	1.427	2.366	11.6	20.1	8 29	23 50.29	+8 13.8	1.997	2.935	8.8	20.6
9 8	23 45.80	+9 11.4	1.399	2.378	7.4	19.8	9 8	23 43.97	+7 23.7	1.946	2.928	5.5	20.4
9 18	23 36.56	+8 22.0	1.395	2.390	4.3	19.7	9 18	23 36.88	+6 20.0	1.922	2.920	2.9	20.2
9 28	23 27.59	+7 20.8	1.417	2.402	5.7	19.8	9 28	23 29.83	+5 8.1	1.926	2.913	4.3	20.3
10 8	23 20.05	+6 16.3	1.465	2.414	9.5	20.1	10 8	23 23.64	+3 54.7	1.958	2.905	7.7	20.5
10 18	23 14.75	+5 16.6	1.536	2.425	13.4	20.3	10 18	23 18.98	+2 46.3	2.016	2.898	11.0	20.7
<b>39229</b>	2000 <i>YJ</i> <sub>30</sub>		9 16.7 238°03	1°0/14.6	18		<b>291028</b>	2005 <i>YM</i> <sub>30</sub>		9 16.7 266°83	1°5/15.0	18	
8 9	23 53.54	-6 41.4	4.936	5.753									

EPHEMERIDES

9 16.7

9 16.7

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>478968</b>	2012 <i>XL</i> <sub>95</sub>		9 16.7 286°18	8°5/ 7.5 18			<b>1868</b>	Thersites		9 16.7 349°29	1°6/19.9 18		
8 9	0 3.04	-21 21.2	1.809	2.668	14.1	21.2	8 9	23 52.24	+ 8 33.7	3.980	4.744	8.8	16.5
8 19	23 59.55	-22 56.1	1.728	2.645	11.5	21.0	8 19	23 49.62	+ 8 9.5	3.882	4.742	7.1	16.3
8 29	23 53.58	-24 31.5	1.670	2.621	9.3	20.8	8 29	23 46.05	+ 7 35.4	3.807	4.740	5.2	16.2
9 8	23 45.66	-25 57.5	1.637	2.597	8.5	20.7	9 8	23 41.83	+ 6 52.6	3.759	4.738	3.2	16.1
9 18	23 36.61	-27 4.2	1.628	2.573	9.6	20.7	9 18	23 37.27	+ 6 3.1	3.739	4.736	1.7	16.0
9 28	23 27.58	-27 44.0	1.644	2.549	12.1	20.8	9 28	23 32.75	+ 5 9.6	3.749	4.734	2.5	16.0
10 8	23 19.73	-27 53.2	1.683	2.525	15.0	21.0	10 8	23 28.66	+ 4 15.4	3.789	4.733	4.4	16.2
10 18	23 13.96	-27 32.5	1.740	2.501	17.8	21.1	10 18	23 25.32	+ 3 23.4	3.857	4.731	6.4	16.3
<b>252199</b>	2001 <i>FK</i> <sub>73</sub>		9 16.7 200°71	1°6/14.4 18			<b>293903</b>	2007 <i>RB</i> <sub>314</sub>		9 16.7 321°41	3°7/19.2 18		
8 9	23 59.90	- 5 58.5	2.904	3.726	10.3	21.2	8 9	0 4.17	+ 5 19.6	1.598	2.409	17.8	20.4
8 19	23 55.86	- 6 38.5	2.816	3.723	8.0	21.1	8 19	0 0.65	+ 6 3.0	1.504	2.393	14.7	20.1
8 29	23 50.40	- 7 24.9	2.753	3.719	5.3	20.9	8 29	23 54.50	+ 6 31.6	1.428	2.376	10.8	19.8
9 8	23 43.92	- 8 14.0	2.717	3.714	2.6	20.7	9 8	23 46.19	+ 6 44.7	1.376	2.361	6.7	19.6
9 18	23 36.91	- 9 2.1	2.710	3.709	2.0	20.6	9 18	23 36.58	+ 6 43.3	1.347	2.346	3.7	19.3
9 28	23 29.98	- 9 44.8	2.733	3.704	4.5	20.8	9 28	23 26.89	+ 6 30.9	1.345	2.331	5.8	19.4
10 8	23 23.72	-10 18.9	2.785	3.698	7.3	21.0	10 8	23 18.38	+ 6 12.9	1.368	2.317	10.1	19.7
10 18	23 18.62	-10 41.8	2.862	3.692	9.7	21.2	10 18	23 12.08	+ 5 55.6	1.414	2.304	14.3	19.9
<b>275278</b>	2010 <i>AV</i> <sub>93</sub>		9 16.7 292°25	2°4/11.8 17			<b>93456</b>	2000 <i>SG</i> <sub>357</sub>		9 16.7 97°70	14°0/ 3.3 18		
8 9	23 53.57	-13 14.8	4.290	5.126	7.0	20.2	8 9	0 16.14	-40 55.0	1.800	2.607	16.3	18.7
8 19	23 50.55	-13 53.4	4.207	5.120	5.4	20.1	8 19	0 9.64	-42 28.6	1.778	2.621	14.9	18.7
8 29	23 46.63	-14 33.3	4.151	5.115	3.7	20.0	8 29	0 0.10	-43 41.1	1.776	2.635	14.1	18.7
9 8	23 42.07	-15 11.8	4.122	5.109	2.5	19.9	9 8	23 48.53	-44 22.3	1.794	2.649	14.1	18.7
9 18	23 37.20	-15 46.4	4.122	5.103	2.7	19.9	9 18	23 36.29	-44 26.2	1.834	2.662	14.8	18.8
9 28	23 32.38	-16 14.6	4.152	5.098	4.1	20.0	9 28	23 24.94	-43 51.4	1.893	2.675	16.0	18.9
10 8	23 27.98	-16 34.5	4.210	5.092	5.8	20.1	10 8	23 15.70	-42 41.8	1.971	2.688	17.4	19.0
10 18	23 24.30	-16 44.9	4.293	5.086	7.4	20.2	10 18	23 9.31	-41 3.9	2.065	2.701	18.7	19.2
<b>510690</b>	2012 <i>UQ</i> <sub>123</sub>		9 16.7 279°77	1°8/18.3 18			<b>505673</b>	2014 <i>UC</i> <sub>135</sub>		9 16.7 327°28	3°3/19.1 17		
8 9	0 1.79	+ 4 28.5	1.820	2.630	16.0	22.1	8 9	0 0.95	+ 6 37.3	1.180	2.016	21.4	20.9
8 19	23 58.34	+ 4 23.4	1.728	2.619	12.9	21.8	8 19	23 58.80	+ 6 44.2	1.104	2.009	17.5	20.6
8 29	23 52.64	+ 4 1.5	1.655	2.608	9.2	21.6	8 29	23 53.56	+ 6 25.5	1.045	2.002	12.8	20.4
9 8	23 45.17	+ 3 24.6	1.606	2.597	5.1	21.3	9 8	23 45.82	+ 5 41.9	1.006	1.996	7.5	20.1
9 18	23 36.71	+ 2 36.3	1.583	2.586	1.8	21.1	9 18	23 36.65	+ 4 38.0	0.989	1.990	3.4	19.8
9 28	23 28.26	+ 1 42.6	1.587	2.575	4.9	21.3	9 28	23 27.57	+ 3 23.0	0.995	1.985	6.4	20.0
10 8	23 20.87	+ 0 50.3	1.618	2.563	9.1	21.5	10 8	23 20.11	+ 2 8.5	1.025	1.980	11.8	20.3
10 18	23 15.36	+ 0 5.7	1.673	2.552	13.0	21.7	10 18	23 15.39	+ 1 5.0	1.075	1.976	16.8	20.5
<b>107559</b>	2001 <i>DK</i> <sub>86</sub>		9 16.7 95°85	2°9/14.3 17			<b>468434</b>	2001 <i>UZ</i> <sub>15</sub>		9 16.7 347°74	8°5/24.8 18		
8 9	0 6.24	- 6 34.4	1.525	2.372	16.8	20.4	8 9	23 48.23	+18 41.6	1.117	1.925	24.1	19.5
8 19	0 1.87	- 7 20.6	1.466	2.386	13.0	20.2	8 19	23 48.99	+19 2.4	1.039	1.911	21.0	19.2
8 29	23 54.94	- 8 16.9	1.428	2.399	8.6	20.0	8 29	23 46.99	+18 43.7	0.974	1.898	17.2	18.9
9 8	23 46.17	- 9 16.5	1.414	2.412	4.3	19.7	9 8	23 42.73	+17 41.3	0.926	1.888	13.0	18.7
9 18	23 36.58	-10 11.4	1.427	2.425	3.5	19.7	9 18	23 37.13	+15 55.8	0.897	1.879	9.4	18.5
9 28	23 27.40	-10 54.3	1.466	2.438	7.3	20.0	9 28	23 31.58	+13 36.2	0.890	1.873	8.7	18.4
10 8	23 19.73	-11 19.9	1.529	2.450	11.5	20.3	10 8	23 27.50	+10 58.9	0.904	1.868	11.6	18.6
10 18	23 14.35	-11 26.3	1.615	2.462	15.1	20.5	10 18	23 25.97	+ 8 22.8	0.940	1.865	16.0	18.8
<b>358714</b>	2008 <i>AF</i> <sub>135</sub>		9 16.7 273°75	3°3/13.6 18			<b>1402</b>	Eri		9 16.7 62°34	8°7/26.1 18		
8 9	0 4.26	-10 5.5	2.021	2.862	13.5	20.7	8 9	0 3.03	+22 19.2	1.784	2.497	19.6	16.9
8 19	23 59.99	-10 37.4	1.933	2.849	10.5	20.5	8 19	23 59.35	+23 7.2	1.714	2.513	17.2	16.8
8 29	23 53.59	-11 14.9	1.868	2.836	7.2	20.2	8 29	23 53.29	+23 28.5	1.660	2.529	14.4	16.6
9 8	23 45.57	-11 52.7	1.827	2.822	4.1	20.0	9 8	23 45.46	+23 20.2	1.626	2.545	11.6	16.5
9 18	23 36.66	-12 25.2	1.814	2.808	3.8	20.0	9 18	23 36.74	+22 42.2	1.614	2.562	9.4	16.4
9 28	23 27.82	-12 47.0	1.829	2.794	6.8	20.2	9 28	23 28.23	+21 38.2	1.627	2.578	8.8	16.4
10 8	23 20.02	-12 54.2	1.871	2.780	10.4	20.3	10 8	23 21.02	+20 16.2	1.664	2.595	10.0	16.5
10 18	23 14.00	-12 45.3	1.935	2.766	13.6	20.5	10 18	23 15.88	+18 45.8	1.726	2.611	12.4	16.7
<b>363721</b>	2004 <i>VF</i> <sub>58</sub>		9 16.7 323°60	4°1/20.9 18			<b>12616</b>	Lochner		9 16.7 321°13	2°1/14.9 18		
8 9	23 58.48	+10 56.3	2.039	2.817	15.6	20.4	8 9	0 1.71	- 5 8.8	1.627	2.475	15.9	18.6
8 19	23 55.54	+11 7.6	1.943	2.806	13.0	20.2	8 19	23 58.47	- 5 40.0	1.547	2.467	12.4	18.3
8 29	23 50.62	+11 0.4	1.866	2.795	9.9	20.0	8 29	23 52.81	- 6 22.6	1.488	2.459	8.3	18.1
9 8	23 44.18	+10 34.8	1.812	2.785	6.7	19.8	9 8	23 45.28	- 7 11.2	1.452	2.451	4.0	17.8
9 18	23 36.87	+ 9 52.5	1.784	2.775	4.3	19.7	9 18	23 36.76	- 7 59.4	1.442	2.444	2.6	17.7
9 28	23 29.56	+ 8 58.0	1.783	2.766	5.0	19.7	9 28	23 28.36	- 8 39.9	1.459	2.437	6.7	18.0
10 8	23 23.16	+ 7 57.5	1.808	2.757	8.1	19.9	10 8	23 21.20	- 9 6.8	1.501	2.430	11.0	18.2
10 18	23 18.40	+ 6 57.9	1.859	2.748	11.4	20.0	10 18	23 16.10	- 9 16.8	1.565	2.424	14.9	18.4
<b>362953</b>	2013 <i>AK</i> <sub>69</sub>		9 16.7 165°26	0°3/17.0 18			<b>316927</b>	2000 <i>YF</i> <sub>45</sub>		9 16.7 135°71	12°8/ 2.4 18 R		
8 9	0 1.88	+ 0 55.7	2.540	3.342	12.2	21.7	8 9	0 8.07	-32 18.2	1.637	2.483	15.9	20.2
8 19	23 57.56	+ 0 32.2	2.455	3.346	9.6	21.5	8 19	0 3.66	-34 41.2	1.606	2.492	14.0	20.1
8 29	23 51.62	- 0 2.0	2.394	3.350	6.6	21.3	8 29	23 56.35	-36 50.0	1.596	2.500	12.9	20.1
9 8	23 44.52	- 0 44.2	2.359	3.354	3.2	21.1	9 8	23 46.92	-38 32.0	1.609	2.508	13.0	20.1
9 18	23 36.83	- 1 30.8	2.352	3.357	0.4	20.9	9 18	23 36.53	-39 37.7	1.645	2.516	14.2	20.2
9 28	23 29.27	- 2 17.1	2.376	3.360	3.9	21.2	9 28	23 26.63	-40 2.7	1.701	2.522	15.9	20.3
10 8	23 22.51	- 2 58.9	2.428	3.362	7.1	21.4	10 8	23 18.48	-39 48.5	1.776	2.529	17.8	20.5
10 18	23 17.12	- 3 32.5	2.506	3.364	10.0	21.6	10 18	23 12.94	-39 0.3	1.866	2.535	19.5	20.7
<b>460099</b>	2014 <i>PG</i> <sub>2</sub>		9 16.7 358°31	1°1/15.7 17			<b>296592</b>	2009 <i>RA</i> <sub>33</sub>		9 16.7 308°72	1°4		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>11059</b>	Nulliusinverba 9 16.7 27°33' 0 <sup>o</sup> 1/16.6 18						<b>259719</b>	2003 YL <sub>75</sub> 9 16.7 272°74' 7 <sup>o</sup> 0/22.2 18					
8 9	23 54.39	+ 5 7.5	1.261	2.108	19.7	17.0	8 9	0 4.16	+14 41.2	1.615	2.382	19.5	20.4
8 19	23 53.13	+ 3 40.1	1.203	2.119	15.4	16.8	8 19	0 0.78	+15 24.8	1.518	2.367	16.7	20.2
8 29	23 49.32	+ 1 44.4	1.164	2.132	10.5	16.5	8 29	23 54.70	+15 45.7	1.437	2.351	13.4	19.9
9 8	23 43.62	- 0 31.6	1.147	2.146	4.9	16.3	9 8	23 46.36	+15 40.8	1.377	2.335	9.9	19.7
9 18	23 37.04	- 2 55.6	1.156	2.161	0.8	16.0	9 18	23 36.63	+15 9.4	1.340	2.319	7.3	19.5
9 28	23 30.80	- 5 12.9	1.190	2.176	6.4	16.5	9 28	23 26.73	+14 14.7	1.328	2.303	7.6	19.5
10 8	23 26.01	- 7 10.7	1.249	2.192	11.4	16.8	10 8	23 18.00	+13 4.7	1.341	2.286	10.6	19.6
10 18	23 23.43	- 8 41.1	1.330	2.210	15.7	17.1	10 18	23 11.53	+11 49.1	1.378	2.270	14.4	19.8
<b>380766</b>	2005 TZ <sub>138</sub> 9 16.7 19°17' 3 <sup>o</sup> 6/14.4 16						<b>63210</b>	2001 AH <sub>13</sub> 9 16.7 306°65' 1 <sup>o</sup> 6/13.5 17					
8 9	0 1.61	- 7 46.7	1.069	1.950	20.0	20.3	8 9	23 52.88	- 7 58.3	4.141	4.969	7.4	19.2
8 19	23 59.19	- 8 14.5	1.020	1.958	15.5	20.1	8 19	23 50.08	- 8 40.1	4.053	4.964	5.6	19.1
8 29	23 53.60	- 8 53.0	0.989	1.967	10.4	19.8	8 29	23 46.36	- 9 25.7	3.991	4.958	3.7	18.9
9 8	23 45.69	- 9 34.2	0.978	1.977	5.3	19.6	9 8	23 42.01	-10 12.3	3.957	4.953	2.0	18.8
9 18	23 37.74	-10 9.0	0.989	1.989	4.2	19.5	9 18	23 37.32	-10 57.2	3.953	4.947	1.9	18.8
9 28	23 28.32	-10 29.1	1.024	2.002	8.7	19.9	9 28	23 32.68	-11 37.7	3.978	4.942	3.5	18.9
10 8	23 21.82	-10 29.5	1.081	2.016	13.6	20.2	10 8	23 28.45	-12 11.3	4.032	4.937	5.5	19.0
10 18	23 18.11	-10 9.0	1.156	2.032	17.8	20.5	10 18	23 24.96	-12 36.5	4.113	4.931	7.2	19.2
<b>238633</b>	2005 CB <sub>36</sub> 9 16.7 182°33' 3 <sup>o</sup> 4/13.2 18						<b>103579</b>	2000 CZ <sub>3</sub> 9 16.7 193°14' 1 <sup>o</sup> 1/17.7 18 R					
8 9	0 1.93	- 8 27.1	1.892	2.738	14.1	20.5	8 9	0 4.55	+ 3 12.3	1.824	2.633	16.0	20.1
8 19	23 58.21	- 9 25.8	1.819	2.738	10.9	20.3	8 19	0 0.40	+ 2 54.4	1.739	2.632	12.8	19.9
8 29	23 52.39	-10 32.6	1.768	2.738	7.3	20.1	8 29	23 53.98	+ 2 20.0	1.675	2.631	8.9	19.6
9 8	23 45.01	-11 41.3	1.743	2.738	4.1	19.9	9 8	23 45.83	+ 1 31.9	1.635	2.628	4.6	19.4
9 18	23 36.84	-12 44.7	1.745	2.738	4.0	19.9	9 18	23 36.74	+ 0 34.7	1.622	2.626	1.1	19.1
9 28	23 28.85	-13 35.9	1.774	2.738	7.1	20.1	9 28	23 27.77	- 0 25.0	1.637	2.623	4.9	19.4
10 8	23 21.97	-14 10.0	1.829	2.738	10.7	20.3	10 8	23 19.95	- 1 20.1	1.679	2.620	9.2	19.6
10 18	23 16.90	-14 24.9	1.907	2.737	13.9	20.5	10 18	23 14.06	- 2 5.1	1.745	2.616	13.0	19.9
<b>177627</b>	2004 JO <sub>11</sub> 9 16.7 156°70' 1 <sup>o</sup> 2/15.1 18						<b>437757</b>	2014 GM <sub>3</sub> 9 16.7 254°52' 0 <sup>o</sup> 3/17.4 16					
8 9	0 0.51	- 3 6.2	2.569	3.388	11.6	21.2	8 9	23 52.65	+ 1 14.6	4.726	5.519	7.1	22.2
8 19	23 56.48	- 3 57.3	2.491	3.394	9.0	21.0	8 19	23 49.78	+ 0 52.7	4.625	5.510	5.6	22.1
8 29	23 50.90	- 4 57.7	2.436	3.401	5.9	20.9	8 29	23 46.11	+ 0 24.9	4.548	5.502	3.8	21.9
9 8	23 44.21	- 6 3.1	2.409	3.407	2.8	20.7	9 8	23 41.88	- 0 7.4	4.500	5.494	1.9	21.8
9 18	23 36.97	- 7 8.7	2.410	3.412	1.6	20.6	9 18	23 37.35	- 0 42.4	4.481	5.485	0.3	21.6
9 28	23 29.86	- 8 9.3	2.442	3.417	4.6	20.8	9 28	23 32.85	- 1 17.9	4.492	5.476	2.2	21.8
10 8	23 23.54	- 9 0.4	2.502	3.421	7.7	21.0	10 8	23 28.70	- 1 51.7	4.533	5.468	4.1	21.9
10 18	23 18.55	- 9 39.0	2.587	3.425	10.4	21.2	10 18	23 25.17	- 2 21.7	4.602	5.459	5.8	22.1
<b>431260</b>	2006 UM <sub>34</sub> 9 16.7 243°15' 2 <sup>o</sup> 5/14.7 17						<b>255328</b>	2005 WL <sub>36</sub> 9 16.7 36°81' 3 <sup>o</sup> 6/13.1 18					
8 9	0 5.62	- 6 8.1	1.606	2.450	16.3	22.2	8 9	0 0.39	- 9 32.9	1.856	2.709	14.1	20.3
8 19	0 1.58	- 6 42.6	1.526	2.444	12.7	21.9	8 19	23 56.95	-10 24.8	1.796	2.718	10.8	20.1
8 29	23 54.95	- 7 27.8	1.467	2.437	8.5	21.7	8 29	23 51.48	-11 23.0	1.757	2.728	7.3	19.9
9 8	23 46.33	- 8 18.1	1.432	2.430	4.2	21.4	9 8	23 44.56	-12 21.1	1.743	2.738	4.2	19.8
9 18	23 36.64	- 9 6.4	1.423	2.423	3.1	21.3	9 18	23 36.97	-13 12.4	1.757	2.749	4.1	19.8
9 28	23 27.08	- 9 45.4	1.440	2.415	7.1	21.5	9 28	23 29.65	-13 51.0	1.797	2.760	7.1	20.0
10 8	23 18.85	-10 9.2	1.483	2.408	11.5	21.8	10 8	23 23.48	-14 12.8	1.862	2.771	10.5	20.2
10 18	23 12.84	-10 14.9	1.549	2.400	15.4	22.0	10 18	23 19.09	-14 16.5	1.950	2.783	13.5	20.5
<b>24119</b>	Katherinrose 9 16.7 32°70' 2 <sup>o</sup> 9/14.7 18						<b>11722</b>	1998 HR <sub>115</sub> 9 16.7 23°46' 3 <sup>o</sup> 0/13.4 18					
8 9	0 4.33	- 6 14.7	1.220	2.085	19.1	18.9	8 9	23 57.54	- 5 58.0	1.844	2.695	14.2	17.5
8 19	0 1.02	- 6 44.9	1.164	2.093	14.8	18.7	8 19	23 54.82	- 7 12.5	1.776	2.699	10.9	17.3
8 29	23 54.72	- 7 26.9	1.126	2.101	9.9	18.4	8 29	23 50.11	- 8 37.9	1.731	2.703	7.2	17.1
9 8	23 46.21	- 8 13.8	1.110	2.109	4.8	18.2	9 8	23 43.94	-10 7.4	1.711	2.708	3.8	16.9
9 18	23 36.68	- 8 57.0	1.118	2.119	3.4	18.1	9 18	23 37.05	-11 33.1	1.718	2.713	3.6	16.9
9 28	23 27.58	- 9 28.2	1.150	2.129	8.0	18.4	9 28	23 30.36	-12 47.0	1.752	2.719	6.9	17.1
10 8	23 20.27	- 9 41.7	1.206	2.139	12.8	18.7	10 8	23 24.72	-13 43.2	1.812	2.725	10.5	17.3
10 18	23 15.60	- 9 35.4	1.282	2.150	16.9	19.0	10 18	23 20.79	-14 18.8	1.894	2.731	13.7	17.6
<b>438552</b>	2007 TA <sub>269</sub> 9 16.7 21°11' 1 <sup>o</sup> 3/15.6 18						<b>92281</b>	2000 DS <sub>8</sub> 9 16.7 259°61' 0 <sup>o</sup> 3/16.3 17					
8 9	0 0.71	- 3 6.8	1.422	2.275	17.5	21.1	8 9	23 56.22	- 1 9.6	3.422	4.229	9.2	20.5
8 19	23 57.81	- 3 32.8	1.360	2.282	13.6	20.8	8 19	23 52.88	- 1 37.7	3.321	4.217	7.2	20.4
8 29	23 52.37	- 4 12.5	1.317	2.289	9.1	20.6	8 29	23 48.37	- 2 13.1	3.244	4.204	4.9	20.2
9 8	23 45.06	- 5 0.4	1.297	2.297	4.2	20.3	9 8	23 43.02	- 2 53.8	3.194	4.191	2.3	20.0
9 18	23 36.85	- 5 49.6	1.302	2.306	1.8	20.2	9 18	23 37.21	- 3 36.8	3.174	4.178	0.5	19.8
9 28	23 28.96	- 6 32.2	1.333	2.315	6.4	20.5	9 28	23 31.42	- 4 18.9	3.184	4.165	3.2	20.0
10 8	23 22.51	- 7 2.1	1.388	2.325	11.0	20.8	10 8	23 26.14	- 4 56.8	3.222	4.152	5.8	20.2
10 18	23 18.29	- 7 15.4	1.464	2.336	15.0	21.1	10 18	23 21.78	- 5 27.9	3.288	4.138	8.1	20.3
<b>432328</b>	2009 UP <sub>89</sub> 9 16.7 2°14' 6 <sup>o</sup> 1/13.7 18						<b>11540</b>	1992 PV <sub>3</sub> 9 16.7 36°11' 3 <sup>o</sup> 7/14.0 18					
8 9	0 4.33	-14 15.7	0.987	1.877	20.6	20.0	8 9	0 1.92	- 6 13.5	1.113	1.987	19.8	17.0
8 19	0 1.77	-14 22.8	0.933	1.874	16.2	19.7	8 19	23 59.31	- 7 9.9	1.065	1.999	15.3	16.8
8 29	23 55.62	-14 31.1	0.896	1.873	11.4	19.4	8 29	23 53.63	- 8 20.1	1.035	2.012	10.2	16.5
9 8	23 46.76	-14 31.9	0.878	1.873	7.1	19.2	9 8	23 45.72	- 9 34.6	1.026	2.025	5.2	16.3
9 18	23 36.60	-14 17.0	0.882	1.876	6.7	19.2	9 18	23 36.82	-10 42.6	1.041	2.040	4.4	16.3
9 28	23 26.98	-13 41.0	0.908	1.880	10.6	19.4	9 28	23 28.45	-11 33.7	1.080	2.055	8.9	16.6
10 8	23 19.53	-12 42.8	0.954	1.886	15.4	19.7	10 8	23 21.95	-12 1.6	1.140	2.070	13.6	16.9
10 18	23 15.26	-11 25.1	1.019	1.894	19.7	20.0	10 18	23 18.14	-12 4.6	1.220	2.087	17.7	17.3
<b>300667</b>	2007 UX <sub>138</sub> 9 16.7 12°66' 3 <sup>o</sup> 5/14.1 18						<b>172077</b>	2002 AF <sub>202</sub> 9 16.7 113°18' 2 <sup>o</sup> 5/18.9 17					
8 9	0 4.90	- 9 56.3	1.553	2.408	16.2	20.0	8 9	0 5.31	+ 6 49.0	1.521	2.329	18.8	20.5
8 19	0 0.92	-10 17.3	1.487	2.410	12.6	19.8	8 19	0 1.30	+ 6 37.4	1.452	2.340	15.1	20.3

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>403699</b>	2010 VC <sub>118</sub>		9 16.7 356°15	3°1/13.8	18		<b>402434</b>	2006 AX <sub>64</sub>		9 16.7 197°42	4°1/11.5	17	
8 9	0 2.91	- 9 55.2	2.033	2.877	13.4	20.6	8 9	23 59.89	-12 58.3	2.413	3.258	11.5	21.6
8 19	23 58.82	-10 23.3	1.959	2.876	10.4	20.4	8 19	23 56.21	-14 1.9	2.340	3.258	8.9	21.4
8 29	23 52.73	-10 56.2	1.906	2.875	7.0	20.2	8 29	23 50.84	-15 9.1	2.291	3.257	6.2	21.2
9 8	23 45.17	-11 29.2	1.879	2.874	3.9	20.0	9 8	23 44.26	-16 14.0	2.269	3.255	4.3	21.1
9 18	23 36.90	-11 56.9	1.879	2.874	3.5	20.0	9 18	23 37.07	-17 11.1	2.274	3.254	4.7	21.2
9 28	23 28.81	-12 14.4	1.907	2.874	6.5	20.2	9 28	23 30.01	-17 55.1	2.308	3.253	7.0	21.3
10 8	23 21.78	-12 18.5	1.961	2.874	9.8	20.4	10 8	23 23.80	-18 22.7	2.368	3.251	9.6	21.5
10 18	23 16.48	-12 7.9	2.039	2.874	12.9	20.6	10 18	23 19.02	-18 32.5	2.451	3.250	12.1	21.6
<b>220555</b>	2004 GG <sub>82</sub>		9 16.7 184°55	0°7/15.3	18		<b>478938</b>	2012 XR <sub>29</sub>		9 16.7 359°68	2°8/19.3	18	
8 9	23 54.49	- 5 10.4	4.496	5.310	7.1	20.5	8 9	0 1.57	+ 6 49.6	1.750	2.554	16.8	21.1
8 19	23 51.20	- 5 28.5	4.408	5.310	5.4	20.4	8 19	23 58.20	+ 6 50.6	1.668	2.553	13.7	20.9
8 29	23 47.06	- 5 50.4	4.346	5.310	3.6	20.3	8 29	23 52.56	+ 6 33.1	1.606	2.553	10.0	20.7
9 8	23 42.34	- 6 14.0	4.312	5.310	1.7	20.1	9 8	23 45.20	+ 5 58.3	1.567	2.553	5.9	20.5
9 18	23 37.32	- 6 37.6	4.308	5.310	0.9	20.0	9 18	23 36.93	+ 5 9.6	1.553	2.553	2.8	20.3
9 28	23 32.36	- 6 58.9	4.334	5.310	2.7	20.2	9 28	23 28.77	+ 4 13.1	1.566	2.553	4.9	20.4
10 8	23 27.80	- 7 16.1	4.389	5.309	4.6	20.3	10 8	23 21.76	+ 3 16.1	1.605	2.554	8.9	20.7
10 18	23 23.92	- 7 27.8	4.472	5.309	6.4	20.5	10 18	23 16.69	+ 2 25.3	1.669	2.554	12.7	20.9
<b>132939</b>	2002 TV <sub>31</sub>		9 16.7 59°76	4°6/13.1	18		<b>487183</b>	2014 OH <sub>334</sub>		9 16.7 53°31	5°0/22.7	18	
8 9	0 8.67	-12 46.5	1.639	2.488	15.8	18.3	8 9	23 59.70	+15 15.2	2.264	3.008	15.2	20.8
8 19	0 3.35	-13 25.8	1.599	2.517	12.1	18.2	8 19	23 56.23	+15 30.4	2.180	3.014	12.8	20.6
8 29	23 55.69	-14 7.5	1.580	2.547	8.3	18.0	8 29	23 50.96	+15 26.5	2.116	3.021	10.2	20.5
9 8	23 46.48	-14 44.4	1.585	2.576	5.2	17.9	9 8	23 44.36	+15 3.2	2.074	3.028	7.4	20.3
9 18	23 36.74	-15 10.1	1.617	2.605	5.1	17.9	9 18	23 37.07	+14 22.1	2.058	3.035	5.3	20.2
9 28	23 27.60	-15 20.0	1.676	2.635	8.0	18.2	9 28	23 29.90	+13 26.9	2.069	3.043	5.4	20.2
10 8	23 20.04	-15 12.2	1.760	2.664	11.3	18.5	10 8	23 23.62	+12 23.4	2.107	3.050	7.5	20.4
10 18	23 14.69	-14 47.1	1.867	2.693	14.3	18.7	10 18	23 18.86	+11 18.1	2.171	3.057	10.1	20.6
<b>287114</b>	2002 RT <sub>163</sub>		9 16.7 28°47	0°5/16.2	18		<b>304213</b>	2006 QF <sub>130</sub>		9 16.7 1°59	4°4/20.8	18	
8 9	23 56.36	+ 2 38.2	1.527	2.366	17.2	20.1	8 9	23 54.40	+10 53.7	1.386	2.202	19.8	19.9
8 19	23 54.29	+ 1 24.9	1.461	2.374	13.5	19.9	8 19	23 53.16	+10 51.9	1.312	2.200	16.4	19.7
8 29	23 49.94	- 0 9.9	1.415	2.382	9.1	19.6	8 29	23 49.44	+10 22.9	1.255	2.199	12.4	19.4
9 8	23 43.93	- 1 59.7	1.393	2.391	4.2	19.4	9 8	23 43.80	+ 9 27.3	1.218	2.199	8.0	19.2
9 18	23 37.09	- 3 55.3	1.396	2.401	1.0	19.2	9 18	23 37.14	+ 8 9.6	1.205	2.201	4.6	19.0
9 28	23 30.50	- 5 45.6	1.427	2.411	5.9	19.5	9 28	23 30.64	+ 6 38.1	1.216	2.204	5.8	19.1
10 8	23 25.15	- 7 20.7	1.484	2.422	10.4	19.8	10 8	23 25.44	+ 5 4.2	1.251	2.208	9.9	19.3
10 18	23 21.78	- 8 34.1	1.563	2.433	14.3	20.1	10 18	23 22.40	+ 3 38.1	1.308	2.213	14.1	19.6
<b>404625</b>	2014 GD <sub>49</sub>		9 16.7 290°89	2°1/14.5	15		<b>103235</b>	1999 YM <sub>22</sub>		9 16.7 191°00	3°2/13.4	18	
8 9	23 54.59	+ 7 22.2	1.028	1.882	22.6	20.4	8 9	0 5.84	-10 47.3	2.299	3.131	12.4	20.3
8 19	23 54.25	+ 4 41.4	0.946	1.870	17.9	20.1	8 19	0 0.88	-11 22.7	2.219	3.129	9.6	20.1
8 29	23 50.77	+ 1 6.7	0.883	1.857	12.0	19.7	8 29	23 54.03	-12 2.2	2.163	3.128	6.5	19.9
9 8	23 44.66	- 3 12.0	0.843	1.844	5.3	19.3	9 8	23 45.79	-12 41.0	2.133	3.126	3.8	19.8
9 18	23 36.95	- 7 52.1	0.829	1.831	3.4	19.1	9 18	23 36.86	-13 14.0	2.132	3.123	3.7	19.8
9 28	23 29.24	-12 21.6	0.842	1.819	10.3	19.5	9 28	23 28.09	-13 36.6	2.160	3.120	6.3	19.9
10 8	23 23.16	-16 11.8	0.879	1.807	16.9	19.8	10 8	23 20.30	-13 45.6	2.215	3.117	9.4	20.1
10 18	23 19.95	-19 6.8	0.936	1.795	22.4	20.1	10 18	23 14.12	-13 40.0	2.294	3.113	12.2	20.3
<b>305810</b>	2009 DZ <sub>101</sub>		9 16.7 85°90	3°7/12.9	18		<b>15620</b>	Beltrami		9 16.7 201°16	0°4/17.2	18	
8 9	0 1.56	- 9 31.3	1.935	2.783	13.8	20.3	8 9	0 4.05	+ 1 54.3	1.976	2.785	14.9	19.7
8 19	23 57.84	-10 30.0	1.868	2.788	10.6	20.2	8 19	23 59.87	+ 1 27.0	1.887	2.782	11.9	19.5
8 29	23 52.10	-11 35.4	1.824	2.793	7.2	20.0	8 29	23 53.57	+ 0 44.7	1.821	2.778	8.2	19.3
9 8	23 44.89	-12 41.1	1.805	2.799	4.2	19.8	9 8	23 45.66	- 0 9.4	1.779	2.774	4.0	19.0
9 18	23 36.96	-13 40.2	1.813	2.804	4.2	19.8	9 18	23 36.88	- 1 10.6	1.764	2.769	0.6	18.8
9 28	23 29.27	-14 26.4	1.849	2.809	7.2	20.0	9 28	23 28.19	- 2 12.2	1.779	2.763	4.8	19.1
10 8	23 22.67	-14 55.4	1.910	2.814	10.5	20.2	10 8	23 20.52	- 3 8.0	1.820	2.757	8.9	19.3
10 18	23 17.83	-15 5.6	1.994	2.820	13.5	20.4	10 18	23 14.65	- 3 52.6	1.887	2.751	12.5	19.5
<b>474700</b>	2005 GD <sub>41</sub>		9 16.7 141°16	1°5/14.8	18		<b>288385</b>	2004 CB <sub>76</sub>		9 16.7 205°14	1°7/14.8	18	
8 9	0 0.90	- 2 41.3	2.423	3.243	12.2	21.8	8 9	0 0.94	- 4 9.2	2.221	3.050	12.9	21.0
8 19	23 56.87	- 3 50.1	2.350	3.255	9.4	21.6	8 19	23 57.18	- 4 58.3	2.138	3.047	10.0	20.8
8 29	23 51.22	- 5 9.4	2.300	3.266	6.2	21.5	8 29	23 51.60	- 5 57.4	2.077	3.044	6.6	20.6
9 8	23 44.41	- 6 34.3	2.278	3.276	2.9	21.3	9 8	23 44.67	- 7 2.1	2.042	3.041	3.1	20.4
9 18	23 37.04	- 7 58.8	2.286	3.286	1.9	21.2	9 18	23 37.04	- 8 6.7	2.036	3.037	2.1	20.3
9 28	23 29.84	- 9 16.7	2.323	3.296	5.0	21.4	9 28	23 29.50	- 9 5.1	2.059	3.033	5.4	20.5
10 8	23 23.49	-10 22.8	2.389	3.305	8.1	21.7	10 8	23 22.86	- 9 52.3	2.108	3.028	8.8	20.7
10 18	23 18.54	-11 13.9	2.480	3.313	10.9	21.9	10 18	23 17.75	-10 24.8	2.183	3.024	11.9	20.9
<b>378139</b>	2006 VW <sub>46</sub>		9 16.7 141°92	1°1/15.8	17		<b>328645</b>	2009 SK <sub>233</sub>		9 16.7 283°80	4°0/12.4	18	
8 9	0 6.37	- 2 31.9	1.782	2.609	15.6	21.6	8 9	0 2.98	-13 56.3	2.345	3.186	11.9	20.5
8 19	0 1.74	- 3 2.9	1.711	2.617	12.2	21.4	8 19	23 58.66	-14 32.2	2.266	3.181	9.3	20.3
8 29	23 54.81	- 3 46.0	1.660	2.626	8.2	21.2	8 29	23 52.53	-15 10.0	2.211	3.175	6.5	20.1
9 8	23 46.20	- 4 36.6	1.635	2.633	3.8	20.9	9 8	23 45.09	-15 44.6	2.182	3.170	4.3	20.0
9 18	23 36.77	- 5 28.7	1.637	2.641	1.5	20.8	9 18	23 36.98	-16 11.3	2.181	3.164	4.5	20.0
9 28	23 27.61	- 6 15.8	1.667	2.647	5.7	21.1	9 28	23 29.02	-16 25.5	2.208	3.159	6.9	20.1
10 8	23 19.70	- 6 52.0	1.724	2.653	9.8	21.3	10 8	23 21.98	-16 24.9	2.261	3.153	9.7	20.3
10 18	23 13.82	- 7 14.0	1.804	2.659	13.4	21.6	10 18	23 16.48	-16 8.6	2.338	3.148	12.3	20.5
<b>213529</b>	2002 HC <sub>18</sub>		9 16.7 21°31	6°7/13.2	17		<b>179248</b>	2001 UO <sub>104</sub>		9 16.7 172°22	1°3/15.3	18	
8 9	0 2.88	-13 26.8											

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>480233</b>	2015 <i>HA</i> <sub>5</sub>		9 16.7 131°62	4.3/20.7	17		<b>278034</b>	2006 <i>WN</i> <sub>31</sub>		9 16.7 275°72	1.7/15.3	18	
8 9	0 4.67	+10 40.3	1.766	2.545	17.6	21.5	8 9	0 2.80	-3 0.1	1.569	2.412	16.6	22.0
8 19	0 0.59	+10 53.2	1.687	2.551	14.6	21.3	8 19	23 59.61	-3 41.2	1.479	2.396	13.1	21.7
8 29	23 54.17	+10 45.4	1.627	2.558	11.0	21.1	8 29	23 53.84	-4 37.7	1.410	2.380	8.8	21.4
9 8	23 45.98	+10 17.1	1.589	2.564	7.3	20.9	9 8	23 45.99	-5 44.5	1.364	2.363	4.2	21.1
9 18	23 36.86	+9 30.7	1.577	2.569	4.5	20.7	9 18	23 36.92	-6 54.3	1.344	2.347	2.2	20.9
9 28	23 27.91	+8 31.7	1.591	2.575	5.5	20.8	9 28	23 27.85	-7 58.1	1.351	2.330	6.8	21.2
10 8	23 20.17	+7 27.8	1.633	2.580	8.9	21.0	10 8	23 19.98	-8 48.0	1.382	2.313	11.6	21.4
10 18	23 14.46	+6 26.6	1.699	2.585	12.5	21.3	10 18	23 14.31	-9 19.0	1.436	2.297	15.9	21.7
<b>504683</b>	2009 <i>FG</i> <sub>26</sub>		9 16.7 138°35	1.2/15.7	17		<b>10243</b>	Hohe Meissner		9 16.7 236°84	2.7/19.6	18	
8 9	0 4.52	-0 51.0	1.543	2.378	17.3	22.3	8 9	0 2.79	+7 40.2	2.342	3.118	13.9	18.8
8 19	0 0.68	-1 43.3	1.474	2.385	13.5	22.1	8 19	23 58.67	+7 43.1	2.240	3.107	11.4	18.6
8 29	23 54.31	-2 52.5	1.425	2.393	9.0	21.9	8 29	23 52.69	+7 31.3	2.159	3.096	8.4	18.4
9 8	23 46.06	-4 12.7	1.400	2.399	4.1	21.6	9 8	23 45.27	+7 5.4	2.103	3.084	5.2	18.2
9 18	23 36.87	-5 35.7	1.402	2.405	1.7	21.5	9 18	23 37.04	+6 27.8	2.074	3.072	2.8	18.0
9 28	23 27.95	-6 52.2	1.431	2.411	6.3	21.8	9 28	23 28.80	+5 42.3	2.075	3.059	4.2	18.1
10 8	23 20.43	-7 54.3	1.485	2.417	10.9	22.1	10 8	23 21.36	+4 54.2	2.103	3.046	7.4	18.3
10 18	23 15.12	-8 37.2	1.562	2.422	14.9	22.3	10 18	23 15.42	+4 8.8	2.157	3.033	10.7	18.5
<b>78552</b>	2002 <i>RD</i> <sub>135</sub>		9 16.7 299°17	4.0/12.5	18		<b>353502</b>	2011 <i>SZ</i> <sub>88</sub>		9 16.7 40°10	1.5/15.7	18	
8 9	23 59.02	-8 27.6	1.766	2.622	14.5	19.4	8 9	0 8.61	-6 17.4	1.588	2.427	16.6	19.9
8 19	23 56.32	-9 42.1	1.680	2.605	11.3	19.2	8 19	0 3.66	-6 9.7	1.526	2.440	12.9	19.7
8 29	23 51.39	-11 7.8	1.617	2.589	7.7	19.0	8 29	23 56.19	-6 9.5	1.485	2.453	8.7	19.5
9 8	23 44.72	-12 37.3	1.578	2.573	4.5	18.7	9 8	23 46.91	-6 12.6	1.468	2.466	4.1	19.3
9 18	23 37.06	-14 2.1	1.566	2.556	4.8	18.7	9 18	23 36.83	-6 14.7	1.477	2.480	1.9	19.1
9 28	23 29.43	-15 13.3	1.580	2.541	8.2	18.9	9 28	23 27.17	-6 11.3	1.514	2.495	6.1	19.5
10 8	23 22.85	-16 4.2	1.619	2.525	12.0	19.1	10 8	23 19.02	-5 59.2	1.576	2.509	10.3	19.7
10 18	23 18.14	-16 31.7	1.680	2.509	15.5	19.3	10 18	23 13.14	-5 36.6	1.662	2.525	14.0	20.0
<b>518327</b>	2017 <i>BC</i> <sub>105</sub>		9 16.7 196°85	5.9/8.2	18		<b>506915</b>	2008 <i>DW</i> <sub>84</sub>		9 16.7 97°68	0.3/17.0	17	
8 9	23 59.92	-20 33.1	2.612	3.459	10.6	21.4	8 9	0 5.77	+1 25.6	1.581	2.405	17.4	21.8
8 19	23 56.18	-21 54.0	2.547	3.457	8.6	21.2	8 19	0 1.49	+1 0.4	1.518	2.421	13.7	21.6
8 29	23 50.81	-23 13.7	2.507	3.456	6.7	21.1	8 29	23 54.76	+0 18.6	1.475	2.436	9.4	21.4
9 8	23 44.27	-24 25.8	2.494	3.454	5.9	21.0	9 8	23 46.25	-0 35.7	1.455	2.451	4.5	21.2
9 18	23 37.14	-25 24.5	2.508	3.452	6.7	21.1	9 18	23 36.92	-1 36.1	1.462	2.466	0.6	20.9
9 28	23 30.14	-26 5.3	2.549	3.450	8.5	21.2	9 28	23 27.94	-2 35.0	1.495	2.481	5.4	21.3
10 8	23 23.97	-26 25.9	2.614	3.448	10.5	21.3	10 8	23 20.39	-3 25.3	1.555	2.495	9.9	21.6
10 18	23 19.16	-26 26.3	2.702	3.445	12.5	21.5	10 18	23 15.02	-4 2.1	1.638	2.509	13.7	21.9
<b>14175</b>	1998 <i>VO</i> <sub>18</sub>		9 16.7 296°82	0.4/17.2	18		<b>293426</b>	2007 <i>EC</i> <sub>128</sub>		9 16.7 284°27	0.1/16.7	18	
8 9	0 1.09	+0 23.6	2.270	3.082	13.2	18.1	8 9	23 59.32	+0 24.6	2.191	3.010	13.4	21.5
8 19	23 57.31	+0 16.1	2.178	3.074	10.4	17.9	8 19	23 56.01	-0 5.6	2.101	3.001	10.5	21.3
8 29	23 51.72	-0 2.2	2.107	3.066	7.2	17.7	8 29	23 50.89	-0 48.5	2.032	2.993	7.2	21.0
9 8	23 44.77	-0 29.1	2.062	3.058	3.6	17.4	9 8	23 44.41	-1 41.0	1.988	2.985	3.4	20.8
9 18	23 37.08	-1 1.0	2.045	3.050	0.5	17.2	9 18	23 37.18	-2 38.4	1.972	2.977	0.5	20.5
9 28	23 29.44	-1 33.7	2.056	3.042	4.2	17.5	9 28	23 30.01	-3 35.1	1.985	2.969	4.5	20.8
10 8	23 22.64	-2 2.6	2.095	3.034	7.8	17.7	10 8	23 23.69	-4 25.5	2.025	2.961	8.2	21.1
10 18	23 17.34	-2 24.0	2.160	3.026	11.0	17.9	10 18	23 18.87	-5 5.2	2.090	2.953	11.5	21.3
<b>186736</b>	2004 <i>CB</i> <sub>21</sub>		9 16.7 194°72	1.8/15.1	17		<b>36000</b>	1999 <i>NV</i> <sub>22</sub>		9 16.8 102°12	3.1/14.1	18	
8 9	0 5.35	-3 59.9	1.888	2.717	14.8	21.7	8 9	0 4.89	-5 32.2	1.469	2.319	17.2	18.6
8 19	0 0.96	-4 43.4	1.806	2.716	11.5	21.5	8 19	0 1.02	-6 35.7	1.409	2.331	13.3	18.4
8 29	23 54.36	-5 38.5	1.747	2.713	7.7	21.2	8 29	23 54.55	-7 51.8	1.370	2.342	8.8	18.1
9 8	23 46.06	-6 40.1	1.712	2.710	3.6	21.0	9 8	23 46.18	-9 12.8	1.355	2.353	4.4	17.9
9 18	23 36.89	-7 41.8	1.705	2.706	2.2	20.9	9 18	23 36.93	-10 29.3	1.366	2.365	3.7	17.9
9 28	23 27.84	-8 36.7	1.726	2.702	6.0	21.1	9 28	23 28.05	-11 32.3	1.404	2.375	7.7	18.2
10 8	23 19.93	-9 19.0	1.775	2.697	10.0	21.3	10 8	23 20.68	-12 15.5	1.466	2.386	11.9	18.4
10 18	23 13.90	-9 45.1	1.847	2.692	13.6	21.6	10 18	23 15.61	-12 36.4	1.550	2.396	15.7	18.7
<b>7174</b>	Semois		9 16.7 50°36	0.0/16.7	18		<b>63195</b>	2000 <i>YN</i> <sub>120</sub>		9 16.8 224°79	2.4/21.7	18	R
8 9	0 0.81	-1 47.7	2.780	3.590	11.1	17.3	8 9	23 55.62	+11 53.5	4.662	5.391	8.1	19.1
8 19	23 56.56	-1 50.3	2.708	3.604	8.6	17.1	8 19	23 52.12	+12 4.2	4.559	5.389	6.7	19.0
8 29	23 50.90	-2 0.1	2.658	3.618	5.8	17.0	8 29	23 47.75	+12 6.5	4.480	5.387	5.2	18.8
9 8	23 44.26	-2 14.9	2.636	3.632	2.8	16.8	9 8	23 42.75	+12 0.7	4.426	5.384	3.6	18.7
9 18	23 37.17	-2 31.9	2.642	3.646	0.4	16.6	9 18	23 37.43	+11 47.6	4.401	5.382	2.5	18.6
9 28	23 30.25	-2 48.1	2.678	3.661	3.5	16.9	9 28	23 32.13	+11 28.7	4.405	5.380	2.7	18.7
10 8	23 24.08	-3 0.5	2.742	3.676	6.4	17.1	10 8	23 27.21	+11 6.0	4.439	5.377	4.0	18.8
10 18	23 19.15	-3 6.9	2.833	3.690	9.0	17.3	10 18	23 22.96	+10 41.8	4.502	5.375	5.6	18.9
<b>478943</b>	2012 <i>XE</i> <sub>40</sub>		9 16.7 341°52	5.6/12.6	17		<b>490404</b>	2009 <i>RQ</i> <sub>33</sub>		9 16.8 7°41	0.4/16.1	18	
8 9	23 54.46	-10 17.8	1.092	1.986	18.7	19.8	8 9	23 54.11	-2 43.6	4.247	5.056	7.6	21.8
8 19	23 54.00	-11 8.2	1.019	1.964	14.7	19.5	8 19	23 51.01	-3 2.7	4.159	5.056	5.8	21.7
8 29	23 50.50	-12 10.0	0.964	1.944	10.2	19.2	8 29	23 47.02	-3 26.6	4.095	5.057	3.9	21.5
9 8	23 44.52	-13 14.0	0.929	1.926	6.2	18.9	9 8	23 42.41	-3 53.6	4.060	5.057	1.8	21.4
9 18	23 37.11	-14 8.8	0.916	1.910	6.5	18.9	9 18	23 37.49	-4 21.6	4.054	5.057	0.6	21.3
9 28	23 29.77	-14 43.3	0.924	1.895	10.7	19.1	9 28	23 32.62	-4 48.2	4.078	5.058	2.6	21.5
10 8	23 24.03	-14 50.3	0.953	1.883	15.7	19.3	10 8	23 28.17	-5 11.4	4.131	5.058	4.7	21.6
10 18	23 20.98	-14 27.6	0.999	1.873	20.2	19.6	10 18	23 24.44	-5 29.4	4.212	5.059	6.5	21.7
<b>348348</b>	2005 <i>EJ</i> <sub>99</sub>		9 16.7 232°74	1.5/18.3	18		<b>424495</b>	2008 <i>DK</i> <sub>44</sub>		9 16.8 177°82	2.3/14.4	17	
8 9	0 2.49	+4 13.4	2.070	2.871	14.7	21.5							

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>367947</b>	2012 <i>DE</i> <sub>27</sub>		9 16.8 168°74	0°6/17.6	18		<b>119503</b>	2001 <i>UR</i> <sub>124</sub>		9 16.8	1°99	7°7/ 9.3	18
8 9	23 58.78	+ 3 9.4	2.874	3.667	11.2	22.1	8 9	23 42.46	- 7 56.6	0.819	1.741	20.3	17.4
8 19	23 55.06	+ 2 34.4	2.786	3.670	8.8	21.9	8 19	23 45.01	-10 25.0	0.774	1.736	15.5	17.1
8 29	23 49.97	+ 1 48.1	2.721	3.673	6.1	21.8	8 29	23 44.52	-13 14.4	0.746	1.734	10.7	16.8
9 8	23 43.88	+ 0 53.1	2.682	3.675	3.1	21.6	9 8	23 41.69	-16 5.4	0.739	1.735	7.8	16.7
9 18	23 37.29	- 0 7.2	2.673	3.677	0.6	21.4	9 18	23 37.64	-18 36.2	0.752	1.738	9.6	16.8
9 28	23 30.78	- 1 8.4	2.694	3.679	3.3	21.6	9 28	23 33.89	-20 28.1	0.785	1.745	14.0	17.1
10 8	23 24.94	- 2 5.9	2.744	3.681	6.3	21.8	10 8	23 31.83	-21 31.9	0.835	1.754	18.6	17.4
10 18	23 20.25	- 2 56.0	2.822	3.682	8.9	22.0	10 18	23 32.32	-21 47.3	0.901	1.766	22.6	17.7
<b>175608</b>	2006 <i>VB</i> <sub>4</sub>		9 16.8 294°36	0°2/16.9	18		<b>511203</b>	2013 <i>YW</i> <sub>143</sub>		9 16.8 332°51	5°1/12.5	18	
8 9	0 1.17	+ 0 19.2	2.016	2.836	14.3	20.6	8 9	0 2.14	-10 34.6	1.425	2.291	16.8	21.1
8 19	23 57.60	- 0 0.3	1.930	2.832	11.3	20.4	8 19	23 59.20	-11 38.0	1.356	2.286	13.0	20.8
8 29	23 52.03	- 0 32.5	1.866	2.827	7.7	20.2	8 29	23 53.55	-12 50.3	1.308	2.281	9.0	20.6
9 8	23 44.98	- 1 14.6	1.827	2.823	3.7	19.9	9 8	23 45.84	-14 2.7	1.283	2.276	5.6	20.4
9 18	23 37.12	- 2 1.8	1.815	2.819	0.5	19.6	9 18	23 37.05	-15 5.4	1.282	2.272	5.8	20.4
9 28	23 29.36	- 2 48.7	1.830	2.815	4.7	20.0	9 28	23 28.48	-15 49.7	1.306	2.268	9.4	20.6
10 8	23 22.58	- 3 29.7	1.873	2.811	8.6	20.2	10 8	23 21.35	-16 10.2	1.354	2.264	13.5	20.8
10 18	23 17.46	- 4 0.4	1.941	2.807	12.1	20.4	10 18	23 16.56	-16 5.4	1.422	2.261	17.2	21.0
<b>232199</b>	2002 <i>GS</i> <sub>60</sub>		9 16.8 81°10	1°4/17.9	18		<b>359690</b>	2011 <i>SN</i> <sub>179</sub>		9 16.8 345°24	0°1/16.8	18	
8 9	0 8.67	+ 1 29.8	1.754	2.564	16.5	20.4	8 9	0 1.82	- 0 48.1	1.660	2.495	16.2	21.1
8 19	0 3.54	+ 1 46.9	1.685	2.578	13.1	20.2	8 19	23 58.55	- 0 55.0	1.580	2.490	12.8	20.8
8 29	23 56.06	+ 1 51.1	1.637	2.592	9.1	20.0	8 29	23 52.93	- 1 15.2	1.520	2.486	8.8	20.6
9 8	23 46.86	+ 1 44.3	1.614	2.606	4.8	19.7	9 8	23 45.50	- 1 45.5	1.484	2.482	4.2	20.3
9 18	23 36.87	+ 1 29.6	1.617	2.620	1.4	19.5	9 18	23 37.11	- 2 21.1	1.473	2.478	0.6	20.0
9 28	23 27.18	+ 1 11.6	1.648	2.634	4.9	19.8	9 28	23 28.85	- 2 55.8	1.489	2.475	5.4	20.4
10 8	23 18.84	+ 0 55.4	1.706	2.648	9.0	20.1	10 8	23 21.78	- 3 23.7	1.531	2.473	9.8	20.6
10 18	23 12.59	+ 0 45.0	1.789	2.662	12.6	20.3	10 18	23 16.73	- 3 40.5	1.596	2.471	13.8	20.9
<b>1537</b>	Transylvania		9 16.8 346°24	2°6/18.9	18		<b>448506</b>	2010 <i>MZ</i> <sub>45</sub>		9 16.8 35°04	6°7/23.5	15	
8 9	23 53.82	+ 5 30.5	1.420	2.258	18.3	15.8	8 9	0 1.58	+16 26.8	1.828	2.578	18.1	20.8
8 19	23 52.77	+ 5 34.7	1.334	2.241	14.9	15.5	8 19	23 58.19	+17 6.3	1.753	2.588	15.4	20.6
8 29	23 49.28	+ 5 17.8	1.266	2.225	10.8	15.2	8 29	23 52.58	+17 23.3	1.695	2.597	12.4	20.5
9 8	23 43.84	+ 4 40.9	1.220	2.211	6.3	14.9	9 8	23 45.30	+17 16.2	1.659	2.608	9.4	20.3
9 18	23 37.27	+ 3 48.2	1.197	2.199	2.7	14.7	9 18	23 37.15	+16 45.6	1.647	2.618	7.1	20.2
9 28	23 30.72	+ 2 46.7	1.198	2.188	5.4	14.8	9 28	23 29.16	+15 55.6	1.660	2.629	6.9	20.2
10 8	23 25.36	+ 1 45.6	1.223	2.179	10.2	15.1	10 8	23 22.33	+14 53.1	1.699	2.641	9.0	20.4
10 18	23 22.12	+ 0 53.1	1.269	2.172	14.6	15.3	10 18	23 17.41	+13 46.1	1.762	2.653	11.9	20.6
<b>26858</b>	Misterogers		9 16.8 302°09	8°1/24.7	18		<b>141881</b>	2002 <i>PM</i> <sub>49</sub>		9 16.8 44°48	5°7/21.3	18	
8 9	23 57.34	+21 38.5	1.540	2.283	21.2	16.7	8 9	0 3.78	+11 25.8	1.317	2.119	21.4	19.3
8 19	23 55.90	+21 32.6	1.415	2.243	18.8	16.4	8 19	0 0.61	+11 58.4	1.253	2.130	17.8	19.1
8 29	23 51.76	+20 49.8	1.306	2.203	15.7	16.1	8 29	23 54.57	+12 5.1	1.206	2.141	13.6	18.8
9 8	23 45.24	+19 23.9	1.215	2.162	12.1	15.7	9 8	23 46.34	+11 45.1	1.178	2.152	9.2	18.6
9 18	23 37.04	+17 11.8	1.146	2.121	8.9	15.4	9 18	23 37.02	+11 0.7	1.173	2.164	6.0	18.5
9 28	23 28.39	+14 18.1	1.102	2.080	8.3	15.3	9 28	23 27.99	+ 9 58.8	1.193	2.177	6.8	18.6
10 8	23 20.72	+10 56.5	1.084	2.039	11.4	15.3	10 8	23 20.59	+ 8 49.7	1.237	2.190	10.5	18.8
10 18	23 15.32	+ 7 26.2	1.091	1.998	16.1	15.5	10 18	23 15.73	+ 7 43.1	1.303	2.203	14.5	19.1
<b>446254</b>	2013 <i>HY</i> <sub>70</sub>		9 16.8 343°55	2°8/19.9	18		<b>210539</b>	1999 <i>RD</i>		9 16.8 97°35	3°6/12.9	18	
8 9	23 58.32	+ 9 6.4	2.092	2.878	15.0	21.0	8 9	0 4.00	- 3 3.7	1.562	2.404	16.8	19.6
8 19	23 55.33	+ 8 51.4	2.004	2.876	12.3	20.8	8 19	0 0.09	- 5 16.8	1.510	2.428	12.8	19.4
8 29	23 50.48	+ 8 17.9	1.936	2.875	9.1	20.6	8 29	23 53.79	- 7 46.0	1.481	2.452	8.3	19.2
9 8	23 44.23	+ 7 27.3	1.891	2.873	5.6	20.4	9 8	23 45.82	-10 20.1	1.479	2.476	4.3	19.0
9 18	23 37.24	+ 6 23.0	1.874	2.871	2.9	20.3	9 18	23 37.11	-12 46.2	1.505	2.499	4.4	19.1
9 28	23 30.32	+ 5 10.8	1.883	2.870	4.3	20.3	9 28	23 28.81	-14 52.3	1.559	2.521	8.1	19.3
10 8	23 24.32	+ 3 57.5	1.921	2.869	7.7	20.6	10 8	23 21.93	-16 30.7	1.640	2.543	12.0	19.6
10 18	23 19.88	+ 2 49.6	1.984	2.868	11.0	20.8	10 18	23 17.19	-17 38.6	1.743	2.564	15.4	19.9
<b>208945</b>	2002 <i>VK</i> <sub>111</sub>		9 16.8 16°83	3°8/13.1	18		<b>493622</b>	2015 <i>PV</i> <sub>9</sub>		9 16.8 15°26	8°1/24.9	18	
8 9	23 58.98	- 7 51.7	1.590	2.451	15.6	19.2	8 9	23 57.41	+18 52.3	1.525	2.286	20.7	20.3
8 19	23 56.32	- 9 0.0	1.526	2.454	12.0	19.0	8 19	23 55.41	+19 31.3	1.453	2.291	17.9	20.1
8 29	23 51.35	-10 18.4	1.484	2.457	8.1	18.8	8 29	23 50.95	+19 41.8	1.398	2.298	14.7	20.0
9 8	23 44.68	-11 39.2	1.465	2.462	4.5	18.6	9 8	23 44.60	+19 21.4	1.361	2.306	11.3	19.8
9 18	23 37.18	-12 53.6	1.473	2.467	4.5	18.6	9 18	23 37.26	+18 30.6	1.347	2.315	8.7	19.7
9 28	23 29.92	-13 53.4	1.506	2.472	7.9	18.8	9 28	23 30.10	+17 14.8	1.356	2.325	8.2	19.7
10 8	23 23.91	-14 32.8	1.564	2.478	11.8	19.1	10 8	23 24.24	+15 43.6	1.389	2.336	10.1	19.8
10 18	23 19.91	-14 49.6	1.643	2.484	15.2	19.3	10 18	23 20.52	+14 7.7	1.445	2.348	13.1	20.0
<b>217823</b>	2001 <i>FB</i> <sub>66</sub>		9 16.8 157°01	0°7/16.1	18		<b>5283</b>	Pyrrhus		9 16.8 294°47	4°3/ 7.9	18	
8 9	0 4.09	- 0 2.6	1.791	2.614	15.7	21.1	8 9	23 55.84	-23 34.2	4.179	5.015	7.2	16.8
8 19	0 0.04	- 0 52.0	1.716	2.620	12.3	20.9	8 19	23 52.46	-24 18.9	4.103	5.003	5.9	16.7
8 29	23 53.76	- 1 57.0	1.662	2.625	8.3	20.7	8 29	23 48.07	-25 1.1	4.053	4.992	4.8	16.6
9 8	23 45.81	- 3 12.7	1.633	2.630	3.8	20.4	9 8	23 42.97	-25 37.3	4.031	4.980	4.3	16.6
9 18	23 37.03	- 4 32.2	1.631	2.635	1.1	20.2	9 18	23 37.51	-26 4.8	4.036	4.969	4.8	16.6
9 28	23 28.44	- 5 47.4	1.657	2.639	5.5	20.6	9 28	23 32.11	-26 21.3	4.068	4.958	5.9	16.7
10 8	23 21.04	- 6 51.2	1.710	2.642	9.8	20.8	10 8	23 27.17	-26 25.3	4.127	4.947	7.2	16.8
10 18	23 15.58	- 7 38.8	1.788	2.645	13.4	21.1	10 18	23 23.06	-26 16.7	4.208	4.935	8.6	16.9
<b>404083</b>	2012 <i>ER</i> <sub>1</sub>		9 16.8 237°30	3°2/13.2	18		<b>480914</b>	2002 <i>UA</i> <sub>63</sub>		9 16.8 0°24	2°1/15.7	17	

EPHEMERIDES

9 16.8

9 16.8

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>47243</b>	1999 VY <sub>51</sub>		9 16.8 255°90	1.5/15.6	18		<b>445271</b>	2009 SJ <sub>337</sub>		9 16.8 340°65	7°0/11.1	18	
8 9	0 5.66	- 3 41.4	1.587	2.426	16.7	19.7	8 9	0 6.41	-20 28.9	1.812	2.665	14.3	19.5
8 19	0 1.76	- 4 5.9	1.503	2.417	13.1	19.5	8 19	0 2.00	-21 2.5	1.741	2.655	11.6	19.3
8 29	23 55.25	- 4 43.1	1.440	2.409	8.8	19.2	8 29	23 55.17	-21 32.8	1.690	2.646	8.8	19.2
9 8	23 46.69	- 5 28.3	1.401	2.400	4.2	18.9	9 8	23 46.56	-21 52.5	1.664	2.638	7.1	19.0
9 18	23 37.00	- 6 15.1	1.387	2.390	1.9	18.7	9 18	23 37.07	-21 55.2	1.663	2.630	7.5	19.0
9 28	23 27.39	- 6 56.2	1.401	2.381	6.5	19.0	9 28	23 27.83	-21 36.6	1.688	2.622	9.9	19.2
10 8	23 19.08	- 7 25.2	1.439	2.372	11.2	19.3	10 8	23 19.92	-20 55.7	1.737	2.616	12.8	19.3
10 18	23 13.00	- 7 38.3	1.501	2.362	15.3	19.5	10 18	23 14.11	-19 54.2	1.808	2.610	15.6	19.5
<b>392193</b>	2009 SQ <sub>121</sub>		9 16.8 233°19	0°3/16.1	18		<b>449054</b>	2012 DL <sub>79</sub>		9 16.8 196°56	0°8/17.6	17	
8 9	23 54.75	- 3 6.8	4.628	5.434	7.0	21.2	8 9	0 8.96	- 0 12.4	2.629	3.418	12.2	21.0
8 19	23 51.45	- 3 21.0	4.535	5.430	5.4	21.1	8 19	0 3.13	+ 0 7.7	2.535	3.417	9.7	20.8
8 29	23 47.32	- 3 39.5	4.466	5.426	3.6	21.0	8 29	23 55.54	+ 0 20.3	2.464	3.415	6.7	20.6
9 8	23 42.61	- 4 0.5	4.425	5.422	1.7	20.8	9 8	23 46.65	+ 0 26.9	2.420	3.412	3.4	20.4
9 18	23 37.60	- 4 22.4	4.414	5.418	0.5	20.7	9 18	23 37.06	+ 0 29.2	2.406	3.410	0.8	20.2
9 28	23 32.62	- 4 43.2	4.434	5.414	2.4	20.9	9 28	23 27.56	+ 0 29.7	2.423	3.407	3.7	20.4
10 8	23 28.03	- 5 0.9	4.483	5.410	4.3	21.0	10 8	23 18.89	+ 0 31.3	2.470	3.404	7.0	20.6
10 18	23 24.09	- 5 14.0	4.560	5.406	6.1	21.1	10 18	23 11.68	+ 0 36.4	2.544	3.401	9.9	20.8
<b>219912</b>	2002 FR <sub>41</sub>		9 16.8 33°34	0°1/16.7	18		<b>461317</b>	2015 XM <sub>203</sub>		9 16.8 271°18	1°9/19.2	17	
8 9	0 1.82	- 1 16.0	1.845	2.675	15.1	19.9	8 9	23 58.70	+ 6 44.2	2.515	3.299	12.8	22.0
8 19	23 58.14	- 1 25.9	1.779	2.686	11.8	19.7	8 19	23 55.38	+ 6 29.0	2.413	3.287	10.4	21.9
8 29	23 52.39	- 1 47.2	1.734	2.698	8.0	19.5	8 29	23 50.43	+ 5 59.4	2.332	3.275	7.5	21.7
9 8	23 45.16	- 2 16.6	1.713	2.710	3.8	19.3	9 8	23 44.25	+ 5 16.9	2.277	3.262	4.4	21.4
9 18	23 37.24	- 2 49.5	1.718	2.723	0.6	19.1	9 18	23 37.39	+ 4 24.4	2.249	3.250	2.0	21.3
9 28	23 29.58	- 3 20.5	1.751	2.736	4.8	19.4	9 28	23 30.53	+ 3 26.3	2.251	3.237	3.7	21.4
10 8	23 23.06	- 3 44.9	1.811	2.750	8.8	19.7	10 8	23 24.38	+ 2 27.9	2.280	3.225	6.9	21.5
10 18	23 18.34	- 3 59.1	1.895	2.764	12.2	19.9	10 18	23 19.53	+ 1 34.1	2.336	3.212	10.0	21.7
<b>192501</b>	1998 KD <sub>17</sub>		9 16.8 218°31	7°8/27.6	18		<b>285061</b>	2011 HZ <sub>100</sub>		9 16.8 65°96	3°7/20.5	16	
8 9	0 2.16	+27 18.1	2.441	3.087	16.3	21.4	8 9	0 1.46	+10 36.8	1.628	2.420	18.3	20.8
8 19	23 58.35	+27 21.9	2.331	3.079	14.6	21.2	8 19	23 58.20	+10 24.4	1.561	2.435	15.0	20.6
8 29	23 52.59	+27 0.5	2.238	3.069	12.6	21.0	8 29	23 52.62	+ 9 48.3	1.512	2.450	11.2	20.4
9 8	23 45.33	+26 11.3	2.166	3.059	10.4	20.9	9 8	23 45.34	+ 8 50.3	1.485	2.465	7.0	20.2
9 18	23 37.22	+24 54.0	2.117	3.048	8.6	20.7	9 18	23 37.25	+ 7 34.8	1.483	2.480	3.9	20.1
9 28	23 29.11	+23 11.4	2.095	3.036	7.8	20.7	9 28	23 29.43	+ 6 9.7	1.508	2.495	5.2	20.2
10 8	23 21.88	+21 10.5	2.101	3.024	8.7	20.7	10 8	23 22.91	+ 4 44.2	1.559	2.510	8.9	20.5
10 18	23 16.24	+18 59.9	2.134	3.011	10.7	20.8	10 18	23 18.41	+ 3 26.7	1.635	2.525	12.6	20.7
<b>485906</b>	2012 FM <sub>83</sub>		9 16.8 231°48	5°7/ 9.9	17		<b>407617</b>	2011 CG <sub>4</sub>		9 16.8 227°85	0°8/17.7	17	
8 9	0 7.13	-22 23.2	2.792	3.620	10.5	22.2	8 9	0 2.44	+ 1 24.4	2.760	3.555	11.5	21.1
8 19	0 1.68	-23 3.4	2.712	3.610	8.6	22.0	8 19	23 58.05	+ 1 24.3	2.663	3.548	9.2	20.9
8 29	23 54.52	-23 40.3	2.657	3.599	6.7	21.9	8 29	23 52.11	+ 1 15.1	2.590	3.542	6.4	20.7
9 8	23 46.13	-24 8.7	2.628	3.588	5.7	21.8	9 8	23 45.02	+ 0 58.4	2.543	3.535	3.3	20.5
9 18	23 37.12	-24 24.1	2.628	3.577	6.2	21.8	9 18	23 37.31	+ 0 36.7	2.524	3.528	0.8	20.3
9 28	23 28.26	-24 23.1	2.656	3.565	7.8	21.9	9 28	23 29.65	+ 0 13.2	2.536	3.521	3.5	20.5
10 8	23 20.27	-24 4.6	2.711	3.553	9.9	22.1	10 8	23 22.68	- 0 8.5	2.576	3.514	6.6	20.7
10 18	23 13.75	-23 29.2	2.788	3.541	11.9	22.2	10 18	23 16.97	- 0 25.5	2.644	3.506	9.4	20.9
<b>509496</b>	2007 TH <sub>426</sub>		9 16.8 328°70	6°9/11.6	18		<b>367695</b>	2010 RX <sub>113</sub>		9 16.8 17°99	3°7/19.4	18	
8 9	0 10.20	-19 37.0	1.740	2.588	15.0	21.2	8 9	0 3.66	+ 6 36.1	1.237	2.065	21.1	21.0
8 19	0 4.99	-20 11.8	1.672	2.585	12.1	21.0	8 19	0 0.78	+ 6 57.8	1.169	2.067	17.2	20.7
8 29	23 57.19	-20 43.8	1.625	2.581	9.1	20.8	8 29	23 54.88	+ 6 56.4	1.117	2.070	12.6	20.5
9 8	23 47.51	-21 5.3	1.602	2.578	7.0	20.7	9 8	23 46.62	+ 6 32.5	1.085	2.073	7.6	20.2
9 18	23 36.93	-21 9.7	1.605	2.575	7.4	20.7	9 18	23 37.10	+ 5 49.7	1.077	2.077	3.8	20.0
9 28	23 26.68	-20 52.6	1.635	2.572	9.9	20.9	9 28	23 27.80	+ 4 55.7	1.092	2.081	6.2	20.2
10 8	23 17.90	-20 12.9	1.689	2.570	13.0	21.0	10 8	23 20.15	+ 4 0.1	1.131	2.085	11.1	20.5
10 18	23 11.41	-19 12.8	1.764	2.567	15.9	21.2	10 18	23 15.17	+ 3 11.8	1.192	2.090	15.7	20.7
<b>200201</b>	1999 RY <sub>250</sub>		9 16.8 12°63	0°2/16.6	18		<b>313171</b>	2001 HF <sub>68</sub>		9 16.8 177°00	7°6/ 3.4	18	
8 9	0 0.16	+ 0 34.0	1.527	2.366	17.2	20.3	8 9	0 5.12	-34 46.8	3.361	4.168	9.4	21.8
8 19	23 57.40	+ 0 2.6	1.455	2.367	13.5	20.1	8 19	23 59.97	-35 59.3	3.314	4.170	8.3	21.7
8 29	23 52.22	- 0 46.2	1.403	2.369	9.2	19.8	8 29	23 53.29	-37 3.0	3.292	4.172	7.7	21.6
9 8	23 45.20	- 1 47.7	1.373	2.371	4.4	19.6	9 8	23 45.53	-37 52.8	3.295	4.173	7.6	21.6
9 18	23 37.25	- 2 55.3	1.370	2.374	0.7	19.3	9 18	23 37.28	-38 24.5	3.323	4.174	8.2	21.7
9 28	23 29.49	- 4 0.6	1.392	2.377	5.7	19.7	9 28	23 29.20	-38 35.9	3.377	4.174	9.3	21.8
10 8	23 23.02	- 4 55.8	1.439	2.381	10.3	19.9	10 8	23 21.95	-38 26.6	3.452	4.174	10.5	21.9
10 18	23 18.65	- 5 35.3	1.509	2.385	14.4	20.2	10 18	23 16.05	-37 58.1	3.548	4.173	11.6	22.0
<b>23295</b>	Brandoreavis		9 16.8 188°47	4°6/21.3	18		<b>489924</b>	2008 QX <sub>40</sub>		9 16.8 71°28	7°3/24.9	16	
8 9	0 3.70	+12 56.3	1.793	2.561	17.8	19.6	8 9	0 0.86	+20 32.7	1.691	2.426	19.9	20.4
8 19	23 59.96	+12 54.9	1.705	2.561	14.9	19.4	8 19	23 57.85	+20 42.0	1.617	2.438	17.2	20.2
8 29	23 53.89	+12 30.0	1.636	2.560	11.4	19.2	8 29	23 52.47	+20 21.8	1.559	2.450	14.0	20.0
9 8	23 46.00	+11 41.7	1.589	2.559	7.7	19.0	9 8	23 45.33	+19 30.9	1.522	2.462	10.7	19.8
9 18	23 37.13	+10 32.5	1.567	2.557	4.9	18.8	9 18	23 37.30	+18 10.8	1.507	2.475	8.0	19.7
9 28	23 28.34	+ 9 8.7	1.572	2.555	5.6	18.9	9 28	23 29.48	+16 28.1	1.518	2.487	7.5	19.7
10 8	23 20.69	+ 7 39.2	1.604	2.552	9.0	19.1	10 8	23 22.95	+14 32.9	1.554	2.499	9.4	19.9
10 18	23 15.03	+ 6 12.8	1.662	2.549	12.6	19.3	10 18	23 18.47	+12 36.5	1.616	2.512	12.4	20.1
<b>84515</b>	2002 TB <sub>293</sub>		9 16.8 236°54	6°1/23.8	18		<b>315050</b>	2007 CR <sub>59</sub>		9 16.8 203°37	5°1/22.9	18	
8 9	0 1.45	+18 4.9	2.248										

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>403423</b>	2009 <i>SL</i> <sub>115</sub>		9 16.8 325°04	0°2/16.9	18		<b>381790</b>	2009 <i>TY</i> <sub>36</sub>		9 16.8 21°02	1°1/17.7	16	
8 9	0 3.24	- 1 11.7	2.168	2.985	13.6	20.6	8 9	0 0.12	+ 3 5.9	1.246	2.092	19.9	21.3
8 19	23 59.10	- 1 9.8	2.081	2.980	10.7	20.4	8 19	23 57.86	+ 2 47.7	1.183	2.097	15.9	21.0
8 29	23 53.04	- 1 17.5	2.015	2.975	7.3	20.2	8 29	23 52.79	+ 2 7.4	1.137	2.102	11.0	20.8
9 8	23 45.54	- 1 32.3	1.974	2.970	3.6	20.0	9 8	23 45.59	+ 1 9.0	1.113	2.109	5.6	20.5
9 18	23 37.27	- 1 51.0	1.961	2.966	0.4	19.7	9 18	23 37.32	- 0 0.5	1.112	2.116	1.1	20.2
9 28	23 29.10	- 2 9.5	1.977	2.962	4.4	20.0	9 28	23 29.33	- 1 11.2	1.135	2.124	6.0	20.6
10 8	23 21.85	- 2 23.9	2.020	2.958	8.1	20.2	10 8	23 22.91	- 2 13.3	1.182	2.133	11.1	20.9
10 18	23 16.20	- 2 30.9	2.088	2.954	11.4	20.5	10 18	23 18.95	- 2 59.6	1.251	2.142	15.6	21.2
<b>134427</b>	1998 <i>QM</i> <sub>109</sub>		9 16.8 28°40	2°0/18.3	18		<b>51639</b>	2001 <i>HH</i> <sub>53</sub>		9 16.8 12°56	4°7/12.9	18	
8 9	0 5.39	+ 2 47.8	1.587	2.406	17.6	19.1	8 9	0 0.82	- 10 28.5	1.413	2.282	16.7	18.3
8 19	0 1.40	+ 3 9.5	1.515	2.412	14.1	18.9	8 19	23 58.08	- 11 19.5	1.354	2.285	13.0	18.1
8 29	23 54.89	+ 3 16.2	1.463	2.418	10.0	18.7	8 29	23 52.74	- 12 17.8	1.315	2.289	8.8	17.9
9 8	23 46.51	+ 3 9.4	1.433	2.424	5.5	18.4	9 8	23 45.49	- 13 15.3	1.300	2.294	5.3	17.7
9 18	23 37.16	+ 2 52.0	1.429	2.431	2.0	18.2	9 18	23 37.33	- 14 3.3	1.308	2.300	5.3	17.7
9 28	23 28.04	+ 2 29.3	1.451	2.439	5.2	18.5	9 28	23 29.50	- 14 34.4	1.342	2.307	8.8	17.9
10 8	23 20.28	+ 2 7.1	1.499	2.446	9.5	18.7	10 8	23 23.13	- 14 44.0	1.398	2.314	12.7	18.2
10 18	23 14.71	+ 1 50.5	1.570	2.454	13.4	19.0	10 18	23 19.01	- 14 31.5	1.476	2.323	16.3	18.5
<b>58752</b>	1998 <i>FF</i> <sub>12</sub>		9 16.8 270°07	3°2/14.2	18		<b>480116</b>	2015 <i>FR</i> <sub>81</sub>		9 16.8 75°45	7°4/22.7	16	
8 9	0 5.97	- 8 47.5	1.757	2.600	15.1	19.6	8 9	0 9.81	+ 14 58.1	1.588	2.345	20.1	21.5
8 19	0 1.78	- 9 17.8	1.673	2.590	11.8	19.4	8 19	0 4.96	+ 16 4.8	1.521	2.360	17.1	21.3
8 29	23 55.15	- 9 55.4	1.610	2.579	8.0	19.2	8 29	23 57.38	+ 16 48.8	1.470	2.376	13.7	21.1
9 8	23 46.66	- 10 34.9	1.572	2.568	4.3	18.9	9 8	23 47.73	+ 17 7.1	1.441	2.392	10.2	20.9
9 18	23 37.13	- 11 9.7	1.561	2.557	3.7	18.9	9 18	23 37.03	+ 16 59.3	1.435	2.408	7.8	20.8
9 28	23 27.71	- 11 33.6	1.576	2.546	7.2	19.0	9 28	23 26.58	+ 16 28.6	1.455	2.424	7.9	20.9
10 8	23 19.48	- 11 42.3	1.617	2.535	11.2	19.3	10 8	23 17.63	+ 15 42.6	1.501	2.439	10.3	21.1
10 18	23 13.31	- 11 33.6	1.681	2.524	14.8	19.5	10 18	23 11.10	+ 14 50.0	1.570	2.455	13.4	21.3
<b>482196</b>	2010 <i>VL</i> <sub>64</sub>		9 16.8 242°50	1°5/15.0	17		<b>412940</b>	2014 <i>QS</i> <sub>216</sub>		9 16.8 1°20	0°1/16.9	18	
8 9	23 59.94	- 4 7.9	2.423	3.249	12.0	22.3	8 9	23 57.17	+ 2 1.8	2.219	3.034	13.3	20.4
8 19	23 56.35	- 4 50.0	2.334	3.241	9.3	22.1	8 19	23 54.33	+ 1 15.6	2.135	3.034	10.5	20.2
8 29	23 51.09	- 5 41.2	2.268	3.234	6.2	21.9	8 29	23 49.78	+ 0 15.1	2.074	3.034	7.1	20.0
9 8	23 44.59	- 6 37.6	2.228	3.226	2.9	21.7	9 8	23 43.99	- 0 56.1	2.038	3.034	3.5	19.8
9 18	23 37.43	- 7 34.4	2.217	3.218	1.8	21.6	9 18	23 37.54	- 2 12.8	2.029	3.034	0.4	19.5
9 28	23 30.32	- 8 26.3	2.234	3.210	4.9	21.8	9 28	23 31.19	- 3 28.6	2.050	3.035	4.3	19.9
10 8	23 23.99	- 9 8.6	2.280	3.201	8.2	22.0	10 8	23 25.68	- 4 37.4	2.098	3.035	7.9	20.1
10 18	23 19.04	- 9 38.2	2.350	3.193	11.1	22.2	10 18	23 21.59	- 5 34.4	2.172	3.036	11.1	20.3
<b>453713</b>	2011 <i>AT</i> <sub>7</sub>		9 16.8 324°49	4°0/12.4	18		<b>210210</b>	Songjian		9 16.8 353°04	0°9/16.3	18	
8 9	23 58.39	- 10 11.5	1.922	2.777	13.5	20.9	8 9	23 59.69	- 2 58.1	0.938	1.821	22.0	20.1
8 19	23 55.66	- 11 13.1	1.840	2.764	10.5	20.7	8 19	23 58.48	- 2 53.6	0.876	1.813	17.4	19.8
8 29	23 50.89	- 12 22.3	1.780	2.751	7.2	20.5	8 29	23 53.78	- 3 6.3	0.830	1.807	11.9	19.5
9 8	23 44.58	- 13 32.5	1.746	2.739	4.5	20.3	9 8	23 46.27	- 3 31.3	0.802	1.803	5.6	19.2
9 18	23 37.42	- 14 36.6	1.738	2.727	4.7	20.3	9 18	23 37.22	- 4 1.4	0.796	1.800	1.4	18.9
9 28	23 30.34	- 15 27.5	1.757	2.715	7.6	20.4	9 28	23 28.41	- 4 26.9	0.810	1.799	7.8	19.3
10 8	23 24.23	- 16 0.2	1.800	2.704	11.1	20.6	10 8	23 21.57	- 4 39.6	0.845	1.799	13.9	19.6
10 18	23 19.82	- 16 12.4	1.866	2.694	14.2	20.8	10 18	23 17.84	- 4 34.5	0.899	1.801	19.1	19.9
<b>403487</b>	2009 <i>UU</i> <sub>61</sub>		9 16.8 329°63	4°1/12.9	17		<b>105269</b>	2000 <i>QV</i> <sub>23</sub>		9 16.8 36°87	2°4/19.2	18	
8 9	0 2.19	- 12 20.5	1.962	2.812	13.5	21.3	8 9	0 0.06	+ 6 44.8	1.846	2.649	16.1	19.9
8 19	23 58.53	- 12 55.5	1.882	2.802	10.5	21.1	8 19	23 56.90	+ 6 35.2	1.771	2.656	13.0	19.7
8 29	23 52.78	- 13 34.3	1.824	2.792	7.3	20.9	8 29	23 51.68	+ 6 7.5	1.716	2.663	9.4	19.5
9 8	23 45.46	- 14 11.3	1.791	2.783	4.6	20.7	9 8	23 44.93	+ 5 23.6	1.684	2.671	5.5	19.3
9 18	23 37.31	- 14 40.5	1.785	2.774	4.6	20.7	9 18	23 37.42	+ 4 27.6	1.678	2.679	2.4	19.1
9 28	23 29.29	- 14 56.7	1.806	2.765	7.4	20.8	9 28	23 30.08	+ 3 25.6	1.699	2.687	4.5	19.3
10 8	23 22.32	- 14 56.5	1.852	2.757	10.7	21.0	10 8	23 23.82	+ 2 24.7	1.747	2.696	8.3	19.5
10 18	23 17.12	- 14 38.9	1.921	2.749	13.8	21.2	10 18	23 19.33	+ 1 31.1	1.820	2.705	11.9	19.8
<b>265570</b>	2005 <i>QR</i> <sub>76</sub>		9 16.8 350°28	0°3/17.1	18		<b>404978</b>	1999 <i>WC</i> <sub>19</sub>		9 16.8 276°08	5°2/11.0	18	
8 9	0 0.87	+ 0 34.6	1.859	2.684	15.2	20.7	8 9	0 2.98	- 16 34.2	2.286	3.131	12.0	21.3
8 19	23 57.57	+ 0 19.1	1.778	2.682	12.0	20.5	8 19	23 58.90	- 17 26.1	2.203	3.118	9.5	21.1
8 29	23 52.16	- 0 9.9	1.718	2.680	8.2	20.3	8 29	23 52.91	- 18 19.1	2.144	3.104	7.0	20.9
9 8	23 45.17	- 0 49.5	1.682	2.678	4.0	20.0	9 8	23 45.50	- 19 7.4	2.111	3.091	5.3	20.8
9 18	23 37.35	- 1 35.1	1.672	2.677	0.5	19.8	9 18	23 37.34	- 19 44.9	2.106	3.078	5.8	20.8
9 28	23 29.65	- 2 20.6	1.690	2.675	4.8	20.1	9 28	23 29.26	- 20 6.7	2.127	3.064	8.0	20.9
10 8	23 23.00	- 3 0.1	1.734	2.675	8.9	20.3	10 8	23 22.10	- 20 10.1	2.175	3.050	10.7	21.1
10 18	23 18.14	- 3 29.1	1.802	2.674	12.6	20.6	10 18	23 16.53	- 19 54.5	2.245	3.037	13.3	21.2
<b>509716</b>	2008 <i>SN</i> <sub>130</sub>		9 16.8 267°38	0°5/17.2	18		<b>115609</b>	2003 <i>UA</i> <sub>103</sub>		9 16.8 216°23	2°2/14.6	18	
8 9	0 3.25	+ 1 4.7	1.770	2.592	15.9	22.0	8 9	0 3.01	- 5 47.7	1.938	2.775	14.2	20.5
8 19	23 59.59	+ 0 50.5	1.685	2.587	12.7	21.7	8 19	23 59.15	- 6 29.5	1.859	2.773	11.0	20.2
8 29	23 53.64	+ 0 21.4	1.621	2.581	8.7	21.5	8 29	23 53.19	- 7 21.0	1.801	2.770	7.4	20.0
9 8	23 45.93	- 0 19.5	1.580	2.576	4.3	21.2	9 8	23 45.66	- 8 16.9	1.769	2.767	3.6	19.8
9 18	23 37.26	- 1 7.5	1.566	2.571	0.6	20.9	9 18	23 37.32	- 9 11.1	1.765	2.764	2.7	19.7
9 28	23 28.67	- 1 56.2	1.580	2.566	5.1	21.3	9 28	23 29.11	- 9 57.3	1.788	2.761	6.1	19.9
10 8	23 21.21	- 2 39.1	1.619	2.560	9.4	21.5	10 8	23 21.96	- 10 30.3	1.837	2.758	9.9	20.2
10 18	23 15.69	- 3 11.1	1.683	2.555	13.3	21.7	10 18	23 16.59	- 10 47.2	1.911	2.755	13.3	20.4
<b>20410</b>	1998 <i>QM</i> <sub>51</sub>												



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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$		
<b>455409</b>	2003 <i>EL</i> <sub>47</sub>	9 16.8 144°69' 13.6"/25.7 17								<b>50921</b>	2000 <i>GZ</i> <sub>58</sub>	9 16.8 295°43' 5.9"/12.0 18			
8 9	0 16.03	+23 5.8	1.333	2.051	25.0	20.8	8 9	0 7.93	-16 46.4	1.828	2.676	14.4	19.6		
8 19	0 11.01	+25 15.0	1.261	2.057	22.4	20.6	8 19	0 3.31	-17 21.8	1.744	2.659	11.5	19.3		
8 29	0 2.29	+26 57.2	1.203	2.063	19.3	20.5	8 29	23 56.21	-17 57.7	1.681	2.643	8.4	19.1		
9 8	23 50.43	+28 3.0	1.163	2.069	16.4	20.3	9 8	23 47.20	-18 27.0	1.644	2.626	6.1	19.0		
9 18	23 36.65	+28 25.4	1.143	2.074	14.2	20.2	9 18	23 37.16	-18 43.1	1.632	2.610	6.4	18.9		
9 28	23 22.81	+28 3.5	1.145	2.078	13.6	20.2	9 28	23 27.22	-18 40.4	1.647	2.594	9.1	19.1		
10 8	23 10.84	+27 5.2	1.169	2.082	15.0	20.3	10 8	23 18.52	-18 16.6	1.687	2.578	12.5	19.2		
10 18	23 2.17	+25 43.7	1.214	2.085	17.5	20.4	10 18	23 11.93	-17 32.3	1.750	2.562	15.7	19.4		
<b>133482</b>	2003 <i>SF</i> <sub>257</sub>	9 16.8 275°79' 1.1"/15.6 18								<b>188126</b>	2002 <i>CN</i> <sub>68</sub>	9 16.8 175°69' 1.0"/15.6 18			
8 9	0 1.44	-4 2.3	2.422	3.245	12.1	20.1	8 9	0 1.36	-3 12.5	2.702	3.517	11.2	21.9		
8 19	23 57.57	-4 24.1	2.326	3.231	9.5	19.9	8 19	23 57.21	-3 47.4	2.618	3.519	8.7	21.7		
8 29	23 51.97	-4 54.1	2.252	3.216	6.4	19.7	8 29	23 51.56	-4 30.5	2.557	3.520	5.8	21.5		
9 8	23 45.06	-5 29.1	2.204	3.202	3.0	19.4	9 8	23 44.81	-5 18.4	2.524	3.521	2.7	21.3		
9 18	23 37.41	-6 5.1	2.185	3.187	1.4	19.3	9 18	23 37.51	-6 7.0	2.519	3.522	1.3	21.2		
9 28	23 29.79	-6 37.6	2.194	3.173	4.7	19.5	9 28	23 30.30	-6 52.1	2.545	3.522	4.2	21.4		
10 8	23 22.93	-7 2.6	2.231	3.158	8.1	19.7	10 8	23 23.84	-7 29.6	2.599	3.522	7.2	21.6		
10 18	23 17.48	-7 17.0	2.294	3.143	11.1	19.9	10 18	23 18.64	-7 56.8	2.679	3.522	9.9	21.8		
<b>309056</b>	2006 <i>US</i> <sub>282</sub>	9 16.8 270°69' 0.1"/16.9 18								<b>405892</b>	2006 <i>FJ</i> <sub>39</sub>	9 16.8 229°98' 0.7"/17.8 18			
8 9	0 1.88	+0 0.4	2.078	2.895	14.0	21.1	8 9	23 59.56	+2 51.2	2.730	3.526	11.6	21.5		
8 19	23 58.20	-0 17.6	1.987	2.887	11.1	20.9	8 19	23 55.90	+2 26.4	2.632	3.517	9.2	21.3		
8 29	23 52.54	-0 47.9	1.918	2.878	7.6	20.7	8 29	23 50.73	+1 50.1	2.556	3.509	6.4	21.2		
9 8	23 45.37	-1 27.6	1.873	2.870	3.7	20.4	9 8	23 44.45	+1 4.5	2.507	3.500	3.3	20.9		
9 18	23 37.39	-2 12.4	1.856	2.861	0.5	20.1	9 18	23 37.56	+0 12.9	2.486	3.490	0.7	20.7		
9 28	23 29.45	-2 56.8	1.868	2.852	4.6	20.4	9 28	23 30.69	-0 40.4	2.495	3.481	3.5	20.9		
10 8	23 22.43	-3 35.5	1.906	2.844	8.5	20.7	10 8	23 24.50	-1 30.9	2.533	3.471	6.7	21.1		
10 18	23 17.05	-4 4.3	1.970	2.835	12.0	20.9	10 18	23 19.50	-2 14.5	2.597	3.461	9.5	21.3		
<b>273614</b>	2007 <i>DZ</i> <sub>12</sub>	9 16.8 276°39' 2.7"/18.9 18								<b>479052</b>	2013 <i>AU</i> <sub>52</sub>	9 16.8 217°63' 5.4"/22.5 16			
8 9	0 3.97	+5 49.3	1.653	2.460	17.5	20.8	8 9	0 6.80	+15 27.9	2.535	3.254	14.3	22.4		
8 19	0 0.55	+5 56.3	1.556	2.444	14.3	20.5	8 19	0 1.82	+16 8.0	2.430	3.246	12.2	22.2		
8 29	23 54.57	+5 44.8	1.478	2.427	10.4	20.2	8 29	23 54.93	+16 32.5	2.345	3.237	9.9	22.0		
9 8	23 46.52	+5 15.5	1.423	2.411	6.1	20.0	9 8	23 46.54	+16 39.9	2.284	3.228	7.4	21.9		
9 18	23 37.22	+4 31.3	1.393	2.394	2.7	19.7	9 18	23 37.28	+16 30.0	2.249	3.218	5.7	21.8		
9 28	23 27.82	+3 38.2	1.389	2.377	5.3	19.8	9 28	23 27.95	+16 4.6	2.243	3.208	5.8	21.7		
10 8	23 19.55	+2 43.7	1.412	2.360	9.9	20.1	10 8	23 19.39	+15 27.9	2.266	3.198	7.7	21.8		
10 18	23 13.39	+1 55.3	1.458	2.343	14.2	20.3	10 18	23 12.32	+14 45.0	2.315	3.187	10.2	22.0		
<b>75500</b>	1999 <i>XQ</i> <sub>184</sub>	9 16.8 239°56' 1.3"/15.7 18								<b>42463</b>	5601 <i>T</i> <sub>-3</sub>	9 16.8 77°01' 0.9"/15.8 18			
8 9	0 6.91	-3 30.1	1.868	2.693	15.1	20.1	8 9	0 0.38	+0 49.6	1.748	2.577	15.8	19.2		
8 19	0 2.46	-3 56.9	1.773	2.679	11.9	19.9	8 19	23 57.16	-0 23.7	1.685	2.593	12.3	19.0		
8 29	23 55.64	-4 35.2	1.700	2.665	8.0	19.6	8 29	23 51.85	-1 54.0	1.643	2.609	8.2	18.8		
9 8	23 46.95	-5 20.9	1.652	2.649	3.8	19.4	9 8	23 45.02	-3 34.9	1.627	2.625	3.7	18.6		
9 18	23 37.18	-6 8.6	1.631	2.634	1.7	19.2	9 18	23 37.50	-5 18.2	1.638	2.641	1.4	18.5		
9 28	23 27.39	-6 51.7	1.638	2.617	5.9	19.4	9 28	23 30.25	-6 54.7	1.676	2.657	5.6	18.8		
10 8	23 18.68	-7 24.4	1.672	2.600	10.2	19.6	10 8	23 24.17	-8 16.7	1.742	2.673	9.7	19.1		
10 18	23 11.92	-7 42.8	1.730	2.582	14.0	19.8	10 18	23 19.92	-9 19.2	1.832	2.688	13.2	19.3		
<b>224481</b>	2005 <i>VZ</i> <sub>86</sub>	9 16.8 263°95' 3.5"/12.4 18								<b>208860</b>	2002 <i>SO</i> <sub>26</sub>	9 16.8 323°35' 0.4"/16.5 18			
8 9	23 59.56	-10 31.6	2.366	3.209	11.7	20.3	8 9	0 5.01	-2 27.0	1.799	2.628	15.4	20.3		
8 19	23 56.13	-11 32.4	2.284	3.202	9.1	20.1	8 19	0 0.91	-2 29.5	1.717	2.624	12.2	20.1		
8 29	23 50.99	-12 38.8	2.226	3.194	6.2	19.9	8 29	23 54.52	-2 42.7	1.655	2.620	8.3	19.9		
9 8	23 44.58	-13 45.4	2.195	3.187	3.9	19.8	9 8	23 46.38	-3 3.3	1.618	2.616	3.9	19.6		
9 18	23 37.51	-14 46.5	2.192	3.179	4.1	19.8	9 18	23 37.31	-3 27.1	1.608	2.612	0.8	19.3		
9 28	23 30.51	-15 36.3	2.216	3.171	6.6	19.9	9 28	23 28.37	-3 48.8	1.625	2.609	5.3	19.7		
10 8	23 24.33	-16 10.9	2.268	3.164	9.5	20.1	10 8	23 20.58	-4 3.7	1.668	2.606	9.5	19.9		
10 18	23 19.56	-16 28.3	2.343	3.156	12.2	20.3	10 18	23 14.74	-4 8.3	1.735	2.603	13.3	20.1		
<b>154179</b>	2002 <i>GV</i> <sub>106</sub>	9 16.8 201°68' 5.2"/10.8 18								<b>86711</b>	2000 <i>GB</i> <sub>6</sub>	9 16.8 120°56' 0.5"/17.3 17			
8 9	0 2.85	-17 4.8	2.375	3.219	11.7	20.1	8 9	0 5.21	+2 19.3	1.818	2.629	16.0	21.0		
8 19	23 58.64	-18 1.3	2.304	3.217	9.2	20.0	8 19	0 0.87	+1 49.6	1.748	2.643	12.6	20.8		
8 29	23 52.64	-18 58.1	2.257	3.216	6.8	19.8	8 29	23 54.35	+1 4.1	1.699	2.657	8.7	20.6		
9 8	23 45.34	-19 49.4	2.237	3.214	5.2	19.7	9 8	23 46.23	+0 6.6	1.675	2.670	4.3	20.3		
9 18	23 37.41	-20 29.5	2.244	3.212	5.7	19.7	9 18	23 37.36	-0 57.5	1.678	2.682	0.6	20.1		
9 28	23 29.65	-20 53.9	2.279	3.210	7.8	19.9	9 28	23 28.75	-2 1.1	1.709	2.695	4.8	20.4		
10 8	23 22.81	-21 0.2	2.339	3.208	10.3	20.0	10 8	23 21.35	-2 57.6	1.767	2.706	9.0	20.7		
10 18	23 17.49	-20 48.1	2.422	3.206	12.7	20.2	10 18	23 15.86	-3 41.8	1.850	2.717	12.6	21.0		
<b>434218</b>	2003 <i>SA</i> <sub>75</sub>	9 16.8 45°15' 1.1"/17.8 18								<b>435601</b>	2008 <i>SL</i> <sub>45</sub>	9 16.8 40°41' 1.8"/15.5 16			
8 9	0 2.20	+3 0.2	1.578	2.403	17.4	20.9	8 9	0 5.10	-4 52.4	1.402	2.254	17.8	21.3		
8 19	23 58.87	+2 46.4	1.511	2.413	13.8	20.7	8 19	0 1.35	-5 12.0	1.345	2.265	13.8	21.1		
8 29	23 53.16	+2 15.1	1.464	2.423	9.6	20.5	8 29	23 54.93	-5 42.9	1.306	2.277	9.2	20.9		
9 8	23 45.69	+1 29.4	1.439	2.433	5.0	20.2	9 8	23 46.56	-6 19.6	1.291	2.290	4.4	20.6		
9 18	23 37.37	+0 34.7	1.440	2.444	1.1	20.0	9 18	23 37.32	-6 55.4	1.301	2.303	2.3	20.5		
9 28	23 29.30	-0 21.7	1.467	2.455	5.1	20.3	9 28	23 28.47	-7 23.2	1.336	2.317	6.7	20.9		
10 8	23 22.55	-1 12.5	1.520	2.466	9.5	20.6	10 8	23 21.20	-7 37.9	1.396	2.331	11.2	21.2		
10 18	23 17.88	-1 52.0	1.596	2.477	13.4	20.9	10 18	23 16.29	-7 36.8	1.478	2.345	15.1	21.4		
<b>384748</b>	2011 <i>ON</i> <sub>56</sub>	9 16.8 106°85' 2.6"/19.1 18								<b>316835</b>	2000 <i>CB</i> <sub>101</sub>	9 16.8 317°47' 1.6"/19.9 18			
8 9	0 8.33	+5 15.9	1.976	2.763	15.7	21.0	8 9	23 54.49	+7 25.0	4.381	5.142	8.1	20.8		
8 19	0 3.15	+5 37.3													

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>511848</b>	2015 <i>FD</i> <sub>335</sub>		9 16.8 123°72	1.8/14.9	17		<b>180872</b>	2005 <i>JQ</i> <sub>74</sub>		9 16.8 254°98	0.4/17.2	18	
8 9	0 3.65	- 3 40.8	1.974	2.803	14.3	21.3	8 9	0 3.42	+ 2 1.8	1.592	2.418	17.3	21.3
8 19	23 59.48	- 4 37.1	1.907	2.817	11.0	21.1	8 19	0 0.12	+ 1 34.5	1.504	2.407	13.8	21.1
8 29	23 53.31	- 5 44.4	1.863	2.829	7.3	20.9	8 29	23 54.27	+ 0 48.4	1.435	2.397	9.6	20.8
9 8	23 45.71	- 6 57.2	1.844	2.842	3.5	20.7	9 8	23 46.40	- 0 13.0	1.390	2.386	4.8	20.5
9 18	23 37.44	- 8 8.9	1.853	2.854	2.2	20.7	9 18	23 37.37	- 1 23.8	1.370	2.375	0.6	20.2
9 28	23 29.40	- 9 12.7	1.891	2.865	5.7	20.9	9 28	23 28.36	- 2 35.7	1.377	2.363	5.6	20.5
10 8	23 22.47	-10 3.1	1.956	2.876	9.4	21.2	10 8	23 20.55	- 3 40.1	1.410	2.352	10.5	20.8
10 18	23 17.28	-10 37.0	2.045	2.887	12.6	21.4	10 18	23 14.89	- 4 30.3	1.466	2.340	14.8	21.0
<b>247402</b>	2002 <i>BY</i> <sub>13</sub>		9 16.8 302°97	2.2/18.4	18		<b>104521</b>	2000 <i>GP</i> <sub>49</sub>		9 16.8 75°31	0.3/17.1	18	
8 9	0 2.72	+ 4 1.1	1.286	2.122	20.0	20.4	8 9	0 1.24	+ 1 30.5	1.923	2.741	15.0	19.8
8 19	0 0.24	+ 4 7.8	1.200	2.107	16.3	20.1	8 19	23 57.76	+ 1 1.3	1.847	2.747	11.8	19.6
8 29	23 54.76	+ 3 53.3	1.131	2.091	11.7	19.8	8 29	23 52.26	+ 0 17.6	1.792	2.752	8.1	19.4
9 8	23 46.77	+ 3 18.9	1.083	2.076	6.5	19.5	9 8	23 45.27	- 0 37.2	1.762	2.758	4.0	19.2
9 18	23 37.27	+ 2 28.7	1.058	2.061	2.2	19.1	9 18	23 37.54	- 1 37.8	1.758	2.763	0.5	18.9
9 28	23 27.68	+ 1 30.6	1.057	2.047	6.2	19.4	9 28	23 29.97	- 2 37.9	1.783	2.768	4.7	19.3
10 8	23 19.51	+ 0 34.4	1.080	2.033	11.7	19.6	10 8	23 23.45	- 3 31.0	1.834	2.774	8.6	19.5
10 18	23 13.96	- 0 11.1	1.124	2.019	16.7	19.9	10 18	23 18.66	- 4 12.5	1.911	2.779	12.1	19.8
<b>392455</b>	2010 <i>VE</i> <sub>143</sub>		9 16.8 309°66	3.3/10.3	17		<b>44486</b>	1998 <i>WZ</i> <sub>19</sub>		9 16.8 5°18	5.5/22.2	18	
8 9	23 55.29	-17 46.2	4.113	4.951	7.3	20.9	8 9	23 59.11	+13 36.5	1.623	2.405	18.8	18.4
8 19	23 52.06	-18 27.0	4.037	4.947	5.7	20.8	8 19	23 56.65	+13 53.2	1.543	2.405	15.9	18.2
8 29	23 47.87	-19 7.4	3.987	4.943	4.2	20.7	8 29	23 51.83	+13 45.4	1.481	2.405	12.4	18.0
9 8	23 43.01	-19 44.3	3.965	4.939	3.3	20.6	9 8	23 45.18	+13 12.5	1.439	2.406	8.7	17.8
9 18	23 37.80	-20 14.9	3.972	4.935	3.7	20.6	9 18	23 37.55	+12 16.5	1.421	2.408	5.9	17.6
9 28	23 32.66	-20 36.7	4.007	4.932	5.0	20.7	9 28	23 30.02	+11 3.2	1.429	2.410	6.2	17.7
10 8	23 27.98	-20 48.2	4.069	4.928	6.5	20.8	10 8	23 23.68	+ 9 41.7	1.461	2.413	9.3	17.9
10 18	23 24.09	-20 48.7	4.156	4.924	8.0	20.9	10 18	23 19.36	+ 8 21.2	1.518	2.417	12.9	18.1
<b>58747</b>	1998 <i>FJ</i> <sub>5</sub>		9 16.8 227°31	2.4/19.3	17		<b>158635</b>	2003 <i>BU</i> <sub>71</sub>		9 16.8 291°32	2.3/18.8	18	
8 9	23 58.74	+14 36.7	1.159	1.967	23.4	18.5	8 9	0 1.41	+ 6 24.6	1.616	2.427	17.7	20.8
8 19	23 57.26	+12 48.9	1.078	1.965	19.3	18.2	8 19	23 58.80	+ 6 9.5	1.505	2.396	14.5	20.5
8 29	23 52.74	+10 11.5	1.014	1.962	14.1	17.9	8 29	23 53.60	+ 5 31.8	1.413	2.365	10.6	20.2
9 8	23 45.76	+ 6 47.7	0.971	1.960	8.1	17.6	9 8	23 46.22	+ 4 32.4	1.344	2.333	6.1	19.9
9 18	23 37.42	+ 2 51.1	0.954	1.957	2.5	17.2	9 18	23 37.39	+ 3 14.8	1.299	2.301	2.3	19.5
9 28	23 29.21	- 1 15.1	0.964	1.954	6.5	17.5	9 28	23 28.26	+ 1 46.7	1.281	2.269	5.5	19.7
10 8	23 22.63	- 5 4.5	1.001	1.951	12.7	17.8	10 8	23 20.12	+ 0 18.0	1.288	2.237	10.6	19.9
10 18	23 18.74	- 8 17.7	1.061	1.947	18.2	18.1	10 18	23 14.06	- 1 1.4	1.318	2.204	15.4	20.1
<b>522744</b>	2016 <i>LV</i> <sub>64</sub>		9 16.8 1°57	1.9/15.3	18		<b>296853</b>	2009 <i>WC</i> <sub>185</sub>		9 16.8 294°41	0.3/16.2	16	
8 9	23 58.61	- 2 56.7	1.240	2.106	18.8	20.3	8 9	23 54.67	- 2 39.8	4.265	5.073	7.6	21.1
8 19	23 56.78	- 3 36.9	1.175	2.104	14.7	20.1	8 19	23 51.55	- 2 57.4	4.169	5.066	5.9	21.0
8 29	23 52.15	- 4 34.2	1.128	2.103	9.8	19.8	8 29	23 47.53	- 3 20.0	4.098	5.058	3.9	20.8
9 8	23 45.37	- 5 42.0	1.103	2.103	4.6	19.5	9 8	23 42.87	- 3 45.7	4.054	5.051	1.8	20.7
9 18	23 37.48	- 6 51.3	1.101	2.104	2.4	19.4	9 18	23 37.87	- 4 12.5	4.040	5.044	0.5	20.5
9 28	23 29.83	- 7 52.0	1.124	2.106	7.4	19.7	9 28	23 32.91	- 4 38.3	4.057	5.037	2.6	20.7
10 8	23 23.70	- 8 35.6	1.170	2.110	12.4	20.0	10 8	23 28.35	- 5 0.7	4.102	5.030	4.7	20.9
10 18	23 20.01	- 8 57.6	1.236	2.114	16.8	20.3	10 18	23 24.50	- 5 18.0	4.175	5.023	6.5	21.0
<b>63228</b>	2001 <i>BF</i> <sub>9</sub>		9 16.8 78°90	6.2/10.1	18		<b>125903</b>	2001 <i>XM</i> <sub>218</sub>		9 16.9 134°02	0.7/16.3	17	
8 9	0 1.61	-13 59.7	1.738	2.598	14.5	18.8	8 9	0 9.06	- 1 28.6	1.562	2.390	17.4	20.5
8 19	23 58.23	-15 43.6	1.686	2.610	11.3	18.6	8 19	0 4.28	- 1 52.9	1.494	2.401	13.7	20.3
8 29	23 52.62	-17 31.5	1.657	2.622	8.1	18.5	8 29	23 56.88	- 2 31.4	1.447	2.411	9.2	20.0
9 8	23 45.43	-19 13.7	1.653	2.635	6.2	18.4	9 8	23 47.54	- 3 19.5	1.423	2.420	4.3	19.8
9 18	23 37.50	-20 40.7	1.676	2.647	7.0	18.5	9 18	23 37.27	- 4 10.8	1.425	2.429	1.1	19.6
9 28	23 29.86	-21 45.0	1.725	2.659	9.7	18.6	9 28	23 27.31	- 4 57.9	1.455	2.438	5.9	19.9
10 8	23 23.47	-22 22.8	1.798	2.671	12.7	18.9	10 8	23 18.82	- 5 34.3	1.511	2.446	10.5	20.2
10 18	23 19.02	-22 34.1	1.892	2.683	15.4	19.1	10 18	23 12.65	- 5 56.1	1.590	2.453	14.5	20.5
<b>119356</b>	2001 <i>SF</i> <sub>235</sub>		9 16.8 24°02	0.1/16.9	17		<b>108494</b>	2001 <i>KA</i> <sub>64</sub>		9 16.9 12°66	7.3/11.7	18	
8 9	0 0.21	+ 0 27.1	1.147	2.007	20.4	19.3	8 9	0 6.18	-18 11.1	1.410	2.278	16.8	18.5
8 19	23 58.07	+ 0 8.2	1.093	2.016	16.0	19.1	8 19	0 2.33	-18 53.0	1.356	2.281	13.4	18.3
8 29	23 53.00	- 0 30.9	1.056	2.027	10.9	18.8	8 29	23 55.66	-19 33.2	1.321	2.285	9.9	18.1
9 8	23 45.74	- 1 24.6	1.040	2.039	5.2	18.6	9 8	23 46.96	-20 2.8	1.309	2.290	7.5	18.0
9 18	23 37.45	- 2 25.1	1.047	2.052	0.7	18.3	9 18	23 37.35	-20 13.9	1.321	2.296	7.9	18.1
9 28	23 29.58	- 3 22.6	1.078	2.066	6.4	18.7	9 28	23 28.19	-20 1.3	1.357	2.303	10.7	18.2
10 8	23 23.41	- 4 8.2	1.132	2.081	11.7	19.1	10 8	23 20.71	-19 24.2	1.415	2.311	14.1	18.5
10 18	23 19.80	- 4 36.3	1.206	2.097	16.1	19.4	10 18	23 15.72	-18 24.8	1.495	2.319	17.3	18.7
<b>223379</b>	2003 <i>SV</i> <sub>58</sub>		9 16.8 19°73	3.8/21.2	18		<b>515020</b>	2009 <i>SD</i> <sub>221</sub>		9 16.9 63°23	2.6/19.8	18	
8 9	23 59.32	+11 16.3	2.131	2.902	15.2	19.8	8 9	0 1.01	+ 8 4.7	2.096	2.881	15.0	21.1
8 19	23 56.16	+11 21.1	2.046	2.905	12.6	19.6	8 19	23 57.34	+ 7 55.1	2.027	2.900	12.1	21.0
8 29	23 51.14	+11 7.6	1.981	2.908	9.6	19.4	8 29	23 51.83	+ 7 28.7	1.979	2.918	8.8	20.8
9 8	23 44.73	+10 36.4	1.939	2.911	6.4	19.3	9 8	23 45.02	+ 6 47.3	1.955	2.937	5.3	20.6
9 18	23 37.60	+ 9 49.9	1.924	2.915	4.0	19.1	9 18	23 37.61	+ 5 54.6	1.958	2.956	2.7	20.5
9 28	23 30.57	+ 8 52.5	1.935	2.918	4.7	19.2	9 28	23 30.42	+ 4 55.7	1.988	2.975	4.1	20.6
10 8	23 24.44	+ 7 50.5	1.974	2.922	7.5	19.3	10 8	23 24.23	+ 3 56.9	2.047	2.994	7.4	20.9
10 18	23 19.87	+ 6 50.2	2.039	2.927	10.6	19.5	10 18	23 19.64	+ 3 3.7	2.131	3.013	10.5	21.1
<b>122161</b>	2000 <i>JQ</i> <sub>84&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>364115</b>	2006 <i>AX</i> <sub>38</sub>		9 16.9 274°30	4.4/11.4	18		<b>296682</b>	2009 <i>SM</i> <sub>218</sub>		9 16.9 260°12	0.3/17.5	17	
8 9	23 59.63	-12 43.9	2.275	3.123	12.0	21.1	8 9	23 53.21	+ 1 37.0	4.443	5.235	7.5	20.5
8 19	23 56.29	-13 54.7	2.199	3.118	9.3	20.9	8 19	23 50.41	+ 1 10.7	4.347	5.232	5.9	20.4
8 29	23 51.17	-15 10.0	2.148	3.114	6.5	20.7	8 29	23 46.77	+ 0 37.8	4.275	5.228	4.1	20.2
9 8	23 44.75	-16 23.5	2.122	3.109	4.6	20.6	9 8	23 42.53	- 0 0.0	4.231	5.225	2.0	20.1
9 18	23 37.65	-17 28.8	2.125	3.104	5.0	20.6	9 18	23 37.99	- 0 40.7	4.217	5.221	0.3	19.9
9 28	23 30.66	-18 20.1	2.155	3.099	7.4	20.8	9 28	23 33.48	- 1 21.9	4.233	5.218	2.2	20.1
10 8	23 24.53	-18 53.5	2.210	3.094	10.2	20.9	10 8	23 29.35	- 2 1.1	4.278	5.214	4.2	20.2
10 18	23 19.88	-19 7.4	2.289	3.090	12.8	21.1	10 18	23 25.88	- 2 36.0	4.352	5.211	6.1	20.4
<b>170671</b>	2003 <i>YX</i> <sub>168</sub>		9 16.9 266°87	2.8/19.4	18		<b>81414</b>	2000 <i>GH</i> <sub>97</sub>		9 16.9 79°66	3.0/19.6	18	
8 9	0 3.78	+ 6 30.2	1.965	2.757	15.6	20.0	8 9	0 3.27	+ 8 23.7	1.569	2.371	18.5	19.2
8 19	23 59.89	+ 6 42.4	1.873	2.750	12.8	19.8	8 19	23 59.79	+ 8 11.3	1.501	2.384	15.0	19.0
8 29	23 53.85	+ 6 38.9	1.800	2.743	9.4	19.6	8 29	23 53.87	+ 7 36.4	1.452	2.397	11.0	18.8
9 8	23 46.13	+ 6 20.4	1.752	2.736	5.7	19.4	9 8	23 46.14	+ 6 40.9	1.425	2.410	6.5	18.6
9 18	23 37.47	+ 5 49.2	1.729	2.728	2.9	19.2	9 18	23 37.53	+ 5 29.9	1.423	2.422	3.1	18.4
9 28	23 28.83	+ 5 9.9	1.735	2.721	4.7	19.3	9 28	23 29.19	+ 4 11.3	1.447	2.435	5.1	18.6
10 8	23 21.19	+ 4 28.2	1.767	2.714	8.4	19.5	10 8	23 22.20	+ 2 54.1	1.498	2.448	9.3	18.8
10 18	23 15.32	+ 3 49.8	1.825	2.706	12.0	19.7	10 18	23 17.35	+ 1 46.3	1.573	2.461	13.2	19.1
<b>396412</b>	2014 <i>EC</i> <sub>19</sub>		9 16.9 314°29	1.1/14.5	17		<b>123178</b>	2000 <i>TU</i> <sub>66</sub>		9 16.9 1°32	2.1/15.2	18	
8 9	23 53.45	- 6 0.8	4.197	5.018	7.4	20.9	8 9	23 58.43	- 3 14.0	1.256	2.122	18.6	20.1
8 19	23 50.64	- 6 36.6	4.108	5.014	5.7	20.7	8 19	23 56.63	- 3 55.9	1.190	2.120	14.5	19.8
8 29	23 46.94	- 7 16.6	4.044	5.010	3.8	20.6	8 29	23 52.07	- 4 54.5	1.144	2.119	9.7	19.6
9 8	23 42.61	- 7 58.5	4.008	5.005	1.8	20.4	9 8	23 45.40	- 6 3.2	1.119	2.119	4.6	19.3
9 18	23 37.95	- 8 39.8	4.002	5.001	1.4	20.4	9 18	23 37.62	- 7 12.8	1.117	2.120	2.6	19.2
9 28	23 33.33	- 9 17.7	4.026	4.997	3.2	20.5	9 28	23 30.08	- 8 13.3	1.140	2.122	7.4	19.5
10 8	23 29.11	- 9 50.0	4.079	4.993	5.1	20.7	10 8	23 24.03	- 8 56.5	1.186	2.125	12.3	19.7
10 18	23 25.61	-10 14.8	4.158	4.989	6.9	20.8	10 18	23 20.38	- 9 18.0	1.252	2.129	16.7	20.0
<b>389092</b>	2008 <i>XM</i> <sub>34</sub>		9 16.9 321°06	0.2/17.1	18		<b>348057</b>	2003 <i>UR</i> <sub>235</sub>		9 16.9 258°77	5.1/13.3	18	
8 9	0 3.52	+ 0 3.0	1.693	2.521	16.3	21.2	8 9	0 13.81	-16 17.0	1.877	2.712	14.7	20.3
8 19	23 59.94	- 0 6.8	1.612	2.517	12.9	21.0	8 19	0 7.74	-16 31.4	1.797	2.705	11.6	20.0
8 29	23 53.99	- 0 30.6	1.550	2.513	8.9	20.8	8 29	23 59.14	-16 44.8	1.739	2.699	8.3	19.8
9 8	23 46.22	- 1 5.4	1.513	2.509	4.4	20.5	9 8	23 48.66	-16 51.2	1.707	2.693	5.6	19.7
9 18	23 37.47	- 1 46.3	1.501	2.506	0.5	20.2	9 18	23 37.23	-16 45.2	1.703	2.686	5.5	19.6
9 28	23 28.84	- 2 27.1	1.517	2.503	5.2	20.5	9 28	23 26.06	-16 22.7	1.726	2.680	8.2	19.8
10 8	23 21.39	- 3 1.5	1.558	2.500	9.7	20.8	10 8	23 16.25	-15 42.6	1.776	2.673	11.6	20.0
10 18	23 15.95	- 3 24.8	1.623	2.497	13.7	21.0	10 18	23 8.66	-14 46.1	1.850	2.666	14.8	20.2
<b>222871</b>	2002 <i>FA</i> <sub>27</sub>		9 16.9 246°13	1.7/13.4	18		<b>392061</b>	2009 <i>BF</i> <sub>185</sub>		9 16.9 190°88	3.1/13.5	18	
8 9	23 55.59	-10 42.5	4.561	5.386	6.8	20.6	8 9	0 4.19	- 9 19.1	2.171	3.007	12.9	21.5
8 19	23 52.20	-11 5.6	4.473	5.380	5.2	20.4	8 19	23 59.88	-10 5.0	2.093	3.006	10.0	21.3
8 29	23 47.94	-11 30.5	4.410	5.374	3.5	20.3	8 29	23 53.63	-10 57.0	2.038	3.005	6.8	21.1
9 8	23 43.07	-11 55.0	4.376	5.368	2.0	20.2	9 8	23 45.97	-11 49.8	2.010	3.004	3.8	21.0
9 18	23 37.90	-12 17.1	4.371	5.362	2.0	20.2	9 18	23 37.58	-12 37.6	2.009	3.002	3.6	20.9
9 28	23 32.78	-12 34.6	4.396	5.356	3.4	20.3	9 28	23 29.32	-13 15.0	2.036	2.999	6.4	21.1
10 8	23 28.04	-12 45.8	4.451	5.350	5.1	20.4	10 8	23 22.05	-13 37.9	2.091	2.997	9.6	21.3
10 18	23 24.00	-12 49.7	4.531	5.344	6.7	20.5	10 18	23 16.41	-13 44.7	2.169	2.994	12.6	21.5
<b>13801</b>	Kohlhase		9 16.9 168°22	4.7/11.5	18		<b>26121</b>	1992 <i>BX</i>		9 16.9 275°98	6.7/22.2	18	
8 9	0 2.76	-13 13.2	2.109	2.955	12.8	18.3	8 9	0 5.00	+14 30.5	1.741	2.500	18.5	17.9
8 19	23 58.81	-14 23.0	2.040	2.957	10.0	18.1	8 19	0 1.49	+15 13.8	1.636	2.480	15.9	17.7
8 29	23 52.92	-15 36.9	1.994	2.959	7.0	18.0	8 29	23 55.38	+15 36.2	1.548	2.459	12.8	17.5
9 8	23 45.60	-16 47.8	1.975	2.961	4.9	17.9	9 8	23 47.10	+15 34.9	1.481	2.438	9.5	17.2
9 18	23 37.58	-17 49.1	1.983	2.962	5.4	17.9	9 18	23 37.41	+15 8.9	1.438	2.417	7.0	17.0
9 28	23 29.72	-18 34.7	2.019	2.963	7.9	18.0	9 28	23 27.47	+14 20.8	1.421	2.395	7.3	17.0
10 8	23 22.89	-19 1.0	2.080	2.964	10.8	18.2	10 8	23 18.56	+13 17.6	1.429	2.373	10.2	17.1
10 18	23 17.72	-19 7.0	2.164	2.964	13.4	18.4	10 18	23 11.73	+12 8.0	1.461	2.352	13.9	17.3
<b>97328</b>	1999 <i>XJ</i> <sub>242</sub>		9 16.9 251°30	4.6/11.3	18		<b>115747</b>	2003 <i>UB</i> <sub>195</sub>		9 16.9 312°29	1.1/15.9	18	
8 9	0 3.51	-16 24.1	2.586	3.425	11.0	20.2	8 9	0 3.30	- 3 18.4	1.699	2.536	15.8	19.7
8 19	23 59.12	-17 10.7	2.501	3.411	8.7	20.0	8 19	23 59.82	- 3 35.7	1.614	2.527	12.4	19.5
8 29	23 53.01	-17 58.2	2.439	3.398	6.3	19.9	8 29	23 53.96	- 4 4.8	1.551	2.518	8.4	19.2
9 8	23 45.63	-18 41.4	2.405	3.384	4.7	19.8	9 8	23 46.25	- 4 41.4	1.511	2.510	4.0	19.0
9 18	23 37.58	-19 15.3	2.398	3.370	5.1	19.8	9 18	23 37.54	- 5 20.3	1.498	2.501	1.5	18.8
9 28	23 29.59	-19 35.6	2.420	3.356	7.2	19.9	9 28	23 28.89	- 5 54.9	1.511	2.493	5.9	19.0
10 8	23 22.42	-19 39.8	2.467	3.342	9.7	20.0	10 8	23 21.41	- 6 19.6	1.550	2.485	10.3	19.3
10 18	23 16.66	-19 27.2	2.539	3.327	12.0	20.2	10 18	23 15.94	- 6 30.7	1.612	2.478	14.2	19.5
<b>22009</b>	1999 <i>XK</i> <sub>77</sub>		9 16.9 266°69	1.1/14.5	18		<b>346440</b>	2008 <i>SJ</i> <sub>302</sub>		9 16.9 46°14	0.1/16.9	17	
8 9	23 53.88	- 6 35.9	4.414	5.234	7.1	19.0	8 9	0 11.36	- 3 10.1	1.423	2.258	18.5	19.2
8 19	23 50.92	- 7 5.8	4.327	5.232	5.4	18.9	8 19	0 6.19	- 2 44.8	1.364	2.273	14.5	19.0
8 29	23 47.10	- 7 39.3	4.265	5.230	3.6	18.8	8 29	23 58.22	- 2 29.9	1.325	2.290	9.9	18.8
9 8	23 42.69	- 8 14.3	4.231	5.228	1.8	18.6	9 8	23 48.21	- 2 22.6	1.309	2.306	4.7	18.5
9 18	23 37.96	- 8 48.4	4.227	5.226	1.3	18.6	9 18	23 37.31	- 2 19.0	1.319	2.324	0.6	18.2
9 28	23 33.29	- 9 19.2	4.253	5.224	3.0	18.7	9 28	23 26.90	- 2 14.8	1.355	2.341	5.8	18.7
10 8	23 29.00	- 9 44.8	4.308	5.222	4.9	18.9	10 8	23 18.20	- 2 5.8	1.417	2.359	10.5	19.0
10 18	23 25.40	-10 3.5	4.390	5.220	6.6	19.0	10 18	23 12.04	- 1 49.2	1.502	2.378	14.5	19.3
<b>261804</b>	2006 <i>BL</i> <sub>261</sub>		9 16.9 334°34	0.9/15.9	18		<b>223326</b>	2003 <i>QV</i> <sub>49</sub>		9 16.9 21°			

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9 16.9

9 16.9

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>26475</b>	Krisztisugar		9 16.9 292°83	0°7/17.5 18			<b>103560</b>	2000 BZ <sub>31</sub>		9 16.9 48°02	4°5/20.5 18		
8 9	0 0.25	+ 3 39.5	1.494	2.324	18.0	17.9	8 9	0 4.45	+ 9 16.3	1.360	2.168	20.5	19.0
8 19	23 57.81	+ 3 1.9	1.408	2.313	14.4	17.7	8 19	0 1.12	+ 9 38.7	1.297	2.180	16.9	18.8
8 29	23 52.82	+ 2 1.9	1.341	2.303	10.1	17.4	8 29	23 55.01	+ 9 37.2	1.251	2.193	12.6	18.5
9 8	23 45.79	+ 0 43.0	1.297	2.292	5.1	17.1	9 8	23 46.81	+ 9 12.1	1.225	2.206	8.1	18.3
9 18	23 37.60	- 0 47.8	1.277	2.282	0.7	16.7	9 18	23 37.57	+ 8 26.8	1.223	2.219	4.7	18.2
9 28	23 29.44	- 2 20.9	1.284	2.272	5.7	17.1	9 28	23 28.64	+ 7 28.3	1.246	2.233	6.0	18.3
10 8	23 22.50	- 3 45.7	1.316	2.262	10.8	17.3	10 8	23 21.28	+ 6 26.1	1.294	2.247	10.1	18.6
10 18	23 17.74	- 4 54.1	1.371	2.252	15.2	17.6	10 18	23 16.36	+ 5 28.8	1.364	2.261	14.2	18.9
<b>360983</b>	2005 UC <sub>320</sub>		9 16.9 76°29	1°2/18.2 18			<b>130020</b>	1999 VC <sub>69</sub>		9 16.9 324°22	2°3/15.0 18		
8 9	23 59.84	+ 4 29.2	2.153	2.955	14.1	21.5	8 9	0 3.07	- 5 46.7	1.596	2.445	16.1	20.1
8 19	23 56.48	+ 4 2.0	2.073	2.961	11.3	21.3	8 19	23 59.80	- 6 14.0	1.516	2.436	12.6	19.9
8 29	23 51.33	+ 3 19.5	2.015	2.968	7.9	21.1	8 29	23 54.04	- 6 51.9	1.457	2.428	8.5	19.6
9 8	23 44.87	+ 2 24.6	1.982	2.974	4.2	20.9	9 8	23 46.35	- 7 35.2	1.422	2.420	4.2	19.4
9 18	23 37.74	+ 1 21.7	1.977	2.980	1.2	20.7	9 18	23 37.62	- 8 17.3	1.412	2.413	2.7	19.2
9 28	23 30.76	+ 0 16.4	2.000	2.987	4.0	20.9	9 28	23 29.00	- 8 51.3	1.428	2.406	6.8	19.5
10 8	23 24.68	- 0 45.0	2.050	2.993	7.6	21.2	10 8	23 21.63	- 9 11.5	1.469	2.399	11.2	19.7
10 18	23 20.13	- 1 37.5	2.126	3.000	10.9	21.4	10 18	23 16.37	- 9 14.7	1.532	2.393	15.1	20.0
<b>453757</b>	2011 DC <sub>43</sub>		9 16.9 309°25	0°5/17.4 15			<b>251702</b>	1996 TS <sub>16</sub>		9 16.9 8°52	1°7/20.4 17		
8 9	23 58.86	+ 1 43.5	2.099	2.916	13.9	21.6	8 9	23 53.86	+ 8 38.3	4.381	5.136	8.2	20.8
8 19	23 56.00	+ 1 22.5	1.996	2.895	11.1	21.4	8 19	23 50.95	+ 8 28.3	4.283	5.136	6.7	20.7
8 29	23 51.21	+ 0 47.5	1.914	2.873	7.7	21.2	8 29	23 47.18	+ 8 9.6	4.209	5.137	4.9	20.6
9 8	23 44.92	+ 0 0.9	1.857	2.852	3.9	20.9	9 8	23 42.80	+ 7 43.4	4.161	5.137	3.1	20.5
9 18	23 37.74	- 0 53.1	1.827	2.831	0.6	20.6	9 18	23 38.09	+ 7 11.0	4.142	5.137	1.8	20.4
9 28	23 30.50	- 1 49.1	1.824	2.811	4.5	20.8	9 28	23 33.43	+ 6 34.5	4.153	5.137	2.3	20.4
10 8	23 24.08	- 2 40.7	1.849	2.790	8.4	21.0	10 8	23 29.14	+ 5 56.6	4.194	5.137	4.1	20.5
10 18	23 19.19	- 3 22.9	1.898	2.770	12.1	21.2	10 18	23 25.55	+ 5 19.6	4.262	5.138	5.8	20.7
<b>392099</b>	2009 DH <sub>130</sub>		9 16.9 225°07	1°0/17.9 18			<b>445400</b>	2010 TQ <sub>22</sub>		9 16.9 252°40	1°0/18.1 18		
8 9	0 3.20	+ 2 21.3	1.984	2.793	14.9	21.2	8 9	23 59.76	+ 4 13.5	2.381	3.178	13.1	22.2
8 19	23 59.33	+ 2 14.0	1.899	2.792	11.9	21.0	8 19	23 56.39	+ 3 43.7	2.281	3.167	10.5	22.0
8 29	23 53.40	+ 1 52.9	1.836	2.792	8.3	20.8	8 29	23 51.32	+ 2 59.4	2.204	3.155	7.4	21.7
9 8	23 45.92	+ 1 20.4	1.797	2.791	4.3	20.6	9 8	23 44.94	+ 2 3.0	2.152	3.144	3.9	21.5
9 18	23 37.62	+ 0 40.3	1.786	2.790	1.0	20.3	9 18	23 37.83	+ 0 58.3	2.128	3.132	1.0	21.3
9 28	23 29.42	- 0 2.1	1.802	2.789	4.4	20.6	9 28	23 30.73	- 0 9.4	2.133	3.120	3.9	21.5
10 8	23 22.24	- 0 41.2	1.845	2.788	8.4	20.8	10 8	23 24.38	- 1 14.0	2.166	3.107	7.4	21.7
10 18	23 16.78	- 1 12.4	1.914	2.787	11.9	21.1	10 18	23 19.41	- 2 10.6	2.226	3.095	10.6	21.9
<b>2704</b>	Julian Loewe		9 16.9 262°69	1°7/18.4 18			<b>482675</b>	2013 CX <sub>50</sub>		9 16.9 284°68	0°9/15.9 18		
8 9	0 2.34	+ 5 10.0	1.652	2.465	17.3	16.7	8 9	0 0.47	- 1 12.0	1.893	2.723	14.7	21.9
8 19	23 59.22	+ 4 50.2	1.562	2.455	14.0	16.4	8 19	23 57.44	- 1 54.3	1.800	2.709	11.6	21.6
8 29	23 53.67	+ 4 10.0	1.491	2.445	10.0	16.2	8 29	23 52.29	- 2 51.1	1.729	2.695	7.8	21.4
9 8	23 46.18	+ 3 11.7	1.443	2.435	5.5	15.9	9 8	23 45.49	- 3 58.2	1.682	2.680	3.7	21.1
9 18	23 37.59	+ 2 0.2	1.421	2.425	1.7	15.6	9 18	23 37.76	- 5 9.6	1.662	2.666	1.3	20.9
9 28	23 29.01	+ 0 43.2	1.426	2.414	5.1	15.8	9 28	23 30.02	- 6 17.9	1.670	2.652	5.5	21.2
10 8	23 21.57	- 0 30.4	1.457	2.404	9.8	16.1	10 8	23 23.24	- 7 16.1	1.705	2.638	9.7	21.4
10 18	23 16.17	- 1 33.0	1.511	2.393	14.0	16.3	10 18	23 18.20	- 7 59.2	1.763	2.623	13.4	21.6
<b>215426</b>	2002 JF <sub>45</sub>		9 16.9 63°82	4°6/20.9 17			<b>515170</b>	2011 SA <sub>43</sub>		9 16.9 288°55	0°2/16.7 18		
8 9	0 3.08	+11 27.7	1.356	2.157	20.9	20.1	8 9	0 5.18	- 1 55.7	1.880	2.704	15.1	21.9
8 19	0 0.07	+11 29.0	1.292	2.169	17.3	19.8	8 19	0 1.13	- 1 57.8	1.788	2.691	11.9	21.6
8 29	23 54.30	+11 2.8	1.244	2.182	13.0	19.6	8 29	23 54.81	- 2 10.5	1.716	2.678	8.2	21.4
9 8	23 46.45	+10 9.6	1.216	2.194	8.5	19.4	9 8	23 46.72	- 2 31.2	1.669	2.666	3.9	21.1
9 18	23 37.58	+ 8 54.1	1.212	2.207	4.9	19.3	9 18	23 37.61	- 2 55.8	1.648	2.653	0.6	20.8
9 28	23 29.01	+ 7 25.0	1.234	2.220	6.0	19.4	9 28	23 28.52	- 3 19.2	1.656	2.640	5.1	21.1
10 8	23 21.98	+ 5 53.6	1.280	2.233	10.1	19.6	10 8	23 20.46	- 3 36.6	1.690	2.627	9.4	21.4
10 18	23 17.37	+ 4 30.3	1.349	2.246	14.3	19.9	10 18	23 14.28	- 3 44.1	1.748	2.615	13.2	21.6
<b>283068</b>	2008 RB <sub>98</sub>		9 16.9 73°03	7°5/25.9 16			<b>287403</b>	2002 VN <sub>106</sub>		9 16.9 9°35	3°1/19.8 18		
8 9	0 2.14	+22 15.7	1.783	2.498	19.6	20.1	8 9	0 0.92	+ 7 55.2	1.763	2.562	16.9	20.1
8 19	23 58.75	+22 23.9	1.715	2.519	17.0	20.0	8 19	23 57.85	+ 7 55.9	1.682	2.563	13.8	19.9
8 29	23 53.09	+22 2.9	1.662	2.540	14.0	19.8	8 29	23 52.57	+ 7 37.2	1.621	2.564	10.2	19.6
9 8	23 45.77	+21 11.5	1.630	2.561	10.8	19.7	9 8	23 45.61	+ 7 0.3	1.582	2.565	6.2	19.4
9 18	23 37.67	+19 51.6	1.621	2.581	8.3	19.6	9 18	23 37.76	+ 6 8.7	1.568	2.567	3.2	19.2
9 28	23 29.85	+18 9.2	1.638	2.602	7.6	19.6	9 28	23 30.01	+ 5 8.2	1.581	2.569	4.8	19.4
10 8	23 23.31	+16 14.2	1.681	2.622	9.2	19.7	10 8	23 23.37	+ 4 6.4	1.621	2.571	8.7	19.6
10 18	23 18.75	+14 17.3	1.750	2.642	11.8	19.9	10 18	23 18.61	+ 3 10.2	1.684	2.573	12.4	19.8
<b>177704</b>	2005 GU <sub>73</sub>		9 16.9 120°24	2°3/14.6 17			<b>52492</b>	1995 YK <sub>11</sub>		9 16.9 237°01	0°1/16.9 18		
8 9	0 4.39	- 3 22.9	1.625	2.464	16.4	20.7	8 9	0 4.22	+ 1 7.0	1.842	2.659	15.6	20.9
8 19	0 0.55	- 4 32.5	1.561	2.476	12.6	20.5	8 19	0 0.44	+ 0 36.6	1.749	2.648	12.4	20.7
8 29	23 54.34	- 5 56.3	1.519	2.488	8.4	20.3	8 29	23 54.38	- 0 9.8	1.676	2.636	8.5	20.4
9 8	23 46.38	- 7 27.2	1.500	2.499	4.0	20.0	9 8	23 46.52	- 1 8.7	1.628	2.625	4.2	20.1
9 18	23 37.60	- 8 56.3	1.509	2.509	2.9	20.0	9 18	23 37.64	- 2 14.8	1.608	2.612	0.5	19.8
9 28	23 29.10	-10 14.6	1.545	2.520	6.8	20.3	9 28	23 28.75	- 3 20.9	1.615	2.599	5.2	20.1
10 8	23 21.92	-11 15.2	1.607	2.529	11.0	20.5	10 8	23 20.91	- 4 19.7	1.649	2.586	9.6	20.4
10 18	23 16.82	-11 54.4	1.692	2.539	14.6	20.8	10 18	23 14.96	- 5 5.6	1.707	2.572	13.5	20.6
<b>69750</b>	1998 MA <sub>5</sub>		9 16.9 355°00	2°6/19.1 18			<b>316490</b>	2010 VE <sub>85</sub>		9 16.9 339°23</			

EPHEMERIDES

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>361976</b>	2008 <i>KO</i> <sub>16</sub>	9 16.9 226°05		1°9/14.5 18			<b>239070</b>	2006 <i>FO</i> <sub>54</sub>	9 16.9 214°45		3°1/20.6 18		
8 9	23 59.32	- 4 31.2	2.311	3.142	12.4	21.2	8 9	0 0.32	+11 25.7	2.005	2.779	16.0	20.7
8 19	23 56.03	- 5 30.5	2.228	3.139	9.6	21.1	8 19	23 57.17	+10 54.5	1.912	2.775	13.2	20.5
8 29	23 51.04	- 6 39.8	2.168	3.136	6.4	20.9	8 29	23 52.02	+10 0.9	1.840	2.772	9.9	20.3
9 8	23 44.79	- 7 54.2	2.135	3.133	3.1	20.6	9 8	23 45.35	+ 8 46.4	1.790	2.768	6.2	20.1
9 18	23 37.88	- 9 8.0	2.130	3.130	2.4	20.6	9 18	23 37.83	+ 7 14.9	1.767	2.764	3.3	19.9
9 28	23 31.04	-10 14.9	2.154	3.126	5.4	20.8	9 28	23 30.37	+ 5 33.4	1.773	2.760	4.5	19.9
10 8	23 25.03	-11 9.8	2.206	3.123	8.7	21.0	10 8	23 23.87	+ 3 50.8	1.806	2.755	8.1	20.2
10 18	23 20.43	-11 49.3	2.282	3.119	11.6	21.2	10 18	23 19.03	+ 2 15.2	1.866	2.750	11.6	20.4
<b>263123</b>	2007 <i>VZ</i> <sub>43</sub>	9 16.9 322°90		2°3/18.4 17			<b>519142</b>	2010 <i>NZ</i> <sub>3</sub>	9 16.9 342°43		1°4/18.1 18		
8 9	0 4.30	+ 3 8.6	1.235	2.074	20.5	21.3	8 9	0 2.55	+ 2 25.8	1.803	2.620	15.9	20.7
8 19	0 1.59	+ 3 28.7	1.156	2.065	16.6	21.0	8 19	23 59.10	+ 2 29.5	1.719	2.615	12.7	20.5
8 29	23 55.76	+ 3 29.6	1.094	2.055	11.9	20.7	8 29	23 53.42	+ 2 18.9	1.655	2.611	9.0	20.3
9 8	23 47.39	+ 3 12.3	1.053	2.046	6.6	20.4	9 8	23 46.05	+ 1 56.0	1.615	2.608	4.8	20.0
9 18	23 37.53	+ 2 40.5	1.035	2.038	2.3	20.1	9 18	23 37.74	+ 1 24.3	1.601	2.605	1.4	19.8
9 28	23 27.70	+ 2 1.3	1.041	2.030	6.2	20.3	9 28	23 29.53	+ 0 49.1	1.614	2.602	4.7	20.0
10 8	23 19.42	+ 1 23.3	1.070	2.023	11.7	20.6	10 8	23 22.40	+ 0 16.3	1.653	2.599	8.9	20.3
10 18	23 13.86	+ 0 54.2	1.120	2.016	16.6	20.9	10 18	23 17.14	- 0 9.2	1.717	2.597	12.7	20.5
<b>488320</b>	2016 <i>UY</i> <sub>97</sub>	9 16.9 19°78		3°1/14.6 17 R			<b>109037</b>	2001 <i>QQ</i> <sub>12</sub>	9 16.9 45°61		0°8/16.3 18		
8 9	0 4.48	- 8 4.5	1.475	2.331	16.9	20.8	8 9	0 3.05	- 0 12.5	1.227	2.079	19.8	18.8
8 19	0 0.91	- 8 29.8	1.412	2.335	13.1	20.6	8 19	0 0.05	- 0 51.8	1.179	2.099	15.4	18.6
8 29	23 54.75	- 9 3.4	1.369	2.340	8.8	20.3	8 29	23 54.23	- 1 49.8	1.150	2.120	10.3	18.4
9 8	23 46.66	- 9 38.9	1.348	2.346	4.6	20.1	9 8	23 46.40	- 2 59.7	1.142	2.141	4.8	18.2
9 18	23 37.65	-10 9.6	1.353	2.352	3.6	20.1	9 18	23 37.72	- 4 12.7	1.159	2.163	1.2	18.0
9 28	23 28.95	-10 29.0	1.384	2.359	7.4	20.3	9 28	23 29.54	- 5 18.7	1.200	2.185	6.5	18.4
10 8	23 21.71	-10 32.7	1.439	2.366	11.6	20.6	10 8	23 23.07	- 6 9.8	1.266	2.208	11.4	18.7
10 18	23 16.74	-10 19.1	1.516	2.374	15.3	20.8	10 18	23 19.08	- 6 41.3	1.353	2.231	15.5	19.1
<b>253700</b>	2003 <i>UL</i> <sub>277</sub>	9 16.9 352°55		0°4/16.6 18			<b>113965</b>	2002 <i>UV</i> <sub>9</sub>	9 16.9 15°88		4°8/13.7 17		
8 9	23 54.47	+ 1 49.1	1.030	1.902	21.3	19.5	8 9	23 57.24	- 8 0.4	0.900	1.799	21.3	18.8
8 19	23 50.14	+ 1 6.5	0.964	1.895	16.9	19.2	8 19	23 56.44	- 8 52.7	0.859	1.806	16.5	18.5
8 29	23 50.78	- 0 3.3	0.915	1.889	11.6	18.9	8 29	23 52.26	- 9 57.9	0.834	1.816	11.0	18.3
9 8	23 44.98	- 1 34.7	0.885	1.885	5.5	18.6	9 8	23 45.60	-11 5.0	0.828	1.827	6.1	18.1
9 18	23 37.84	- 3 16.9	0.877	1.882	1.0	18.2	9 18	23 37.81	-12 1.9	0.843	1.841	5.6	18.1
9 28	23 30.87	- 4 55.9	0.892	1.880	7.3	18.7	9 28	23 30.58	-12 37.8	0.879	1.856	10.1	18.4
10 8	23 25.55	- 6 18.1	0.928	1.880	13.2	19.0	10 8	23 25.35	-12 47.0	0.935	1.873	15.0	18.8
10 18	23 22.91	- 7 14.9	0.983	1.882	18.3	19.3	10 18	23 22.99	-12 29.1	1.010	1.891	19.3	19.1
<b>442379</b>	2011 <i>UQ</i> <sub>1</sub>	9 16.9 16°26		5°6/22.9 18			<b>449420</b>	2013 <i>HF</i> <sub>45</sub>	9 16.9 283°05		3°3/20.6 18		
8 9	23 58.35	+15 31.6	1.692	2.461	18.6	20.8	8 9	0 0.82	+ 9 41.7	2.200	2.974	14.7	21.0
8 19	23 56.00	+15 35.9	1.612	2.463	15.8	20.6	8 19	23 57.39	+ 9 45.2	2.106	2.969	12.1	20.8
8 29	23 51.40	+15 14.1	1.550	2.467	12.4	20.4	8 29	23 52.08	+ 9 31.7	2.033	2.964	9.1	20.6
9 8	23 45.08	+14 25.8	1.509	2.471	8.9	20.2	9 8	23 45.35	+ 9 2.1	1.983	2.959	5.9	20.4
9 18	23 37.84	+13 13.5	1.491	2.475	6.1	20.0	9 18	23 37.83	+ 8 18.3	1.960	2.955	3.5	20.2
9 28	23 30.74	+11 43.7	1.500	2.480	6.1	20.0	9 28	23 30.35	+ 7 25.0	1.965	2.950	4.4	20.3
10 8	23 24.78	+10 5.8	1.534	2.486	8.9	20.2	10 8	23 23.72	+ 6 27.8	1.997	2.945	7.5	20.5
10 18	23 20.74	+ 8 29.7	1.593	2.492	12.4	20.4	10 18	23 18.62	+ 5 32.8	2.056	2.940	10.7	20.7
<b>37010</b>	2000 <i>TW</i> <sub>42</sub>	9 16.9 180°34		6°5/11.2 18			<b>476061</b>	2007 <i>RS</i> <sub>325</sub>	9 16.9 351°66		4°8/21.5 18		
8 9	0 6.61	-14 2.0	1.509	2.368	16.4	19.1	8 9	23 57.69	+12 4.2	1.549	2.345	19.0	21.3
8 19	0 2.68	-15 24.7	1.445	2.369	12.8	18.9	8 19	23 55.74	+12 10.9	1.467	2.340	15.9	21.0
8 29	23 56.03	-16 52.9	1.403	2.369	9.2	18.7	8 29	23 51.38	+11 52.3	1.402	2.336	12.2	20.8
9 8	23 47.32	-18 16.3	1.384	2.369	6.7	18.6	9 8	23 45.14	+11 8.5	1.358	2.333	8.2	20.6
9 18	23 37.57	-19 24.7	1.392	2.369	7.4	18.6	9 18	23 37.86	+10 2.2	1.338	2.330	5.1	20.4
9 28	23 28.10	-20 9.6	1.424	2.369	10.4	18.8	9 28	23 30.65	+ 8 40.3	1.342	2.328	5.8	20.4
10 8	23 20.12	-20 27.0	1.480	2.368	14.1	19.0	10 8	23 24.62	+ 7 12.5	1.372	2.327	9.4	20.6
10 18	23 14.51	-20 17.1	1.556	2.367	17.3	19.2	10 18	23 20.65	+ 5 48.6	1.425	2.327	13.4	20.9
<b>427953</b>	2005 <i>XH</i> <sub>43</sub>	9 16.9 33°00		1°0/16.2 17			<b>253453</b>	2003 <i>RD</i> <sub>26</sub>	9 16.9 51°43		1°8/18.3 17		
8 9	0 4.29	- 2 38.8	1.232	2.088	19.5	19.9	8 9	0 4.38	+ 4 26.5	1.193	2.031	21.2	20.4
8 19	0 1.10	- 2 51.3	1.178	2.101	15.2	19.7	8 19	0 1.26	+ 4 14.8	1.140	2.048	16.9	20.1
8 29	23 55.01	- 3 18.5	1.143	2.114	10.2	19.5	8 29	23 55.16	+ 3 39.6	1.105	2.065	11.8	19.9
9 8	23 46.81	- 3 55.2	1.130	2.129	4.8	19.2	9 8	23 46.91	+ 2 45.0	1.090	2.064	6.3	19.7
9 18	23 37.65	- 4 34.2	1.140	2.144	1.4	19.0	9 18	23 37.66	+ 1 37.8	1.098	2.102	1.8	19.4
9 28	23 28.94	- 5 7.7	1.175	2.160	6.6	19.4	9 28	23 28.89	+ 0 28.2	1.132	2.121	5.9	19.8
10 8	23 21.95	- 5 29.2	1.234	2.177	11.5	19.8	10 8	23 21.89	- 0 34.0	1.189	2.140	11.0	20.1
10 18	23 17.52	- 5 35.2	1.314	2.195	15.8	20.1	10 18	23 17.51	- 1 21.6	1.268	2.160	15.4	20.4
<b>72051</b>	2000 <i>YS</i> <sub>7</sub>	9 16.9 163°52		1°1/15.6 18			<b>333361</b>	2001 <i>XA</i> <sub>222</sub>	9 16.9 2°62		0°9/16.4 18		
8 9	0 3.58	- 2 27.9	2.293	3.109	12.9	20.2	8 9	0 0.42	- 2 55.1	1.106	1.976	20.2	19.7
8 19	23 59.29	- 3 13.9	2.213	3.115	10.0	20.0	8 19	23 58.59	- 2 56.5	1.044	1.974	15.9	19.4
8 29	23 53.21	- 4 10.5	2.157	3.120	6.7	19.8	8 29	23 53.65	- 3 13.3	0.999	1.973	10.8	19.2
9 8	23 45.82	- 5 13.4	2.127	3.125	3.1	19.6	9 8	23 46.32	- 3 40.9	0.974	1.974	5.1	18.8
9 18	23 37.77	- 6 17.3	2.126	3.129	1.5	19.5	9 18	23 37.73	- 4 12.2	0.972	1.976	1.3	18.6
9 28	23 29.87	- 7 16.6	2.154	3.132	4.8	19.8	9 28	23 29.42	- 4 39.1	0.993	1.980	7.0	19.0
10 8	23 22.86	- 8 6.0	2.211	3.135	8.3	20.0	10 8	23 22.84	- 4 54.2	1.036	1.986	12.4	19.3
10 18	23 17.38	- 8 42.3	2.292	3.137	11.3	20.2	10 18	23 18.98	- 4 53.4	1.099	1.992	17.2	19.6
<b>63962</b>	2001 <i>SS</i> <sub>68</sub>	9 16.9 337°51		1°9/15.4 18			<b>187378</b>						

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>321601</b>	2009 <i>UB</i> <sub>146</sub>		9 16.9 357°10	4.6/11.4	18		<b>45680</b>	2000 <i>EF</i> <sub>130</sub>		9 16.9 288°90	1.2/15.4	18	
8 9	23 58.43	-11 53.4	2.062	2.916	12.8	20.1	8 9	23 58.75	-2 49.8	2.363	3.188	12.3	18.1
8 19	23 55.57	-13 11.5	1.992	2.915	9.9	20.0	8 19	23 55.58	-3 35.7	2.276	3.183	9.6	17.9
8 29	23 50.84	-14 35.2	1.946	2.914	6.9	19.8	8 29	23 50.75	-4 31.9	2.212	3.178	6.4	17.7
9 8	23 44.74	-15 57.6	1.925	2.913	4.8	19.7	9 8	23 44.69	-5 34.4	2.174	3.172	3.0	17.5
9 18	23 37.93	-17 11.2	1.932	2.913	5.2	19.7	9 18	23 37.98	-6 38.3	2.165	3.167	1.6	17.4
9 28	23 31.26	-18 9.5	1.966	2.913	7.8	19.8	9 28	23 31.33	-7 37.8	2.184	3.162	4.8	17.6
10 8	23 25.53	-18 48.2	2.024	2.913	10.8	20.0	10 8	23 25.45	-8 28.0	2.231	3.156	8.1	17.8
10 18	23 21.37	-19 5.7	2.106	2.914	13.5	20.2	10 18	23 20.95	-9 5.3	2.302	3.151	11.1	18.0
<b>114474</b>	2003 <i>AS</i> <sub>41</sub>		9 16.9 303°20	1.1/15.9	18		<b>386835</b>	2010 <i>JG</i> <sub>34</sub>		9 16.9 156°52	3.8/12.1	16	
8 9	23 58.48	+0 28.1	1.455	2.301	17.6	19.6	8 9	0 2.77	-10 22.9	2.316	3.153	12.1	21.6
8 19	23 56.59	-0 31.4	1.364	2.282	13.9	19.4	8 19	23 58.67	-11 41.7	2.246	3.160	9.4	21.5
8 29	23 52.14	-1 53.3	1.293	2.263	9.5	19.1	8 29	23 52.81	-13 6.3	2.201	3.167	6.4	21.3
9 8	23 45.61	-3 32.4	1.245	2.245	4.4	18.7	9 8	23 45.66	-14 30.4	2.183	3.173	4.1	21.2
9 18	23 37.81	-5 20.1	1.223	2.226	1.6	18.5	9 18	23 37.88	-15 47.4	2.194	3.178	4.4	21.2
9 28	23 29.95	-7 4.6	1.226	2.208	6.8	18.8	9 28	23 30.26	-16 51.2	2.234	3.183	6.9	21.4
10 8	23 23.28	-8 34.7	1.253	2.191	12.0	19.0	10 8	23 23.54	-17 37.5	2.300	3.188	9.7	21.6
10 18	23 18.79	-9 42.5	1.302	2.174	16.5	19.2	10 18	23 18.33	-18 4.8	2.390	3.192	12.3	21.7
<b>136974</b>	1998 <i>RO</i> <sub>50</sub>		9 16.9 335°61	0.9/16.3	18		<b>451632</b>	2012 <i>GB</i> <sub>21</sub>		9 16.9 213°37	2.9/21.2	18	
8 9	23 59.51	-2 11.0	1.156	2.024	19.8	19.2	8 9	23 59.04	+11 50.8	2.929	3.676	12.0	21.7
8 19	23 57.98	-2 20.4	1.079	2.008	15.7	18.9	8 19	23 55.51	+11 33.3	2.826	3.670	9.9	21.5
8 29	23 53.39	-2 46.9	1.019	1.993	10.8	18.6	8 29	23 50.57	+11 0.8	2.745	3.664	7.6	21.4
9 8	23 46.30	-3 26.2	0.980	1.980	5.1	18.3	9 8	23 44.58	+10 14.0	2.688	3.657	5.0	21.2
9 18	23 37.73	-4 11.4	0.963	1.967	1.3	18.0	9 18	23 38.01	+9 15.3	2.659	3.650	3.1	21.0
9 28	23 29.18	-4 53.0	0.969	1.956	7.2	18.3	9 28	23 31.47	+8 8.3	2.660	3.643	3.6	21.1
10 8	23 22.17	-5 22.5	0.998	1.947	12.9	18.6	10 8	23 25.55	+6 58.0	2.691	3.635	6.0	21.2
10 18	23 17.86	-5 34.0	1.045	1.938	17.9	18.9	10 18	23 20.76	+5 49.3	2.749	3.627	8.5	21.4
<b>326143</b>	2012 <i>BK</i> <sub>53</sub>		9 16.9 193°24	0.4/16.5	18		<b>319151</b>	2005 <i>YM</i> <sub>56</sub>		9 16.9 305°49	2.0/19.1	18	
8 9	0 1.12	-1 15.1	2.658	3.467	11.5	22.2	8 9	0 1.93	+5 20.4	2.264	3.055	13.9	21.2
8 19	23 57.18	-1 41.9	2.569	3.466	9.0	22.1	8 19	23 58.16	+5 23.7	2.174	3.053	11.2	21.0
8 29	23 51.70	-2 17.8	2.504	3.464	6.1	21.9	8 29	23 52.56	+5 13.6	2.105	3.050	8.1	20.8
9 8	23 45.09	-3 0.1	2.466	3.462	2.9	21.7	9 8	23 45.60	+4 51.2	2.061	3.047	4.7	20.6
9 18	23 37.90	-3 45.0	2.456	3.460	0.6	21.5	9 18	23 37.89	+4 19.3	2.044	3.045	2.1	20.4
9 28	23 30.78	-4 28.2	2.475	3.457	3.9	21.7	9 28	23 30.25	+3 41.8	2.056	3.042	4.0	20.5
10 8	23 24.39	-5 5.6	2.524	3.455	7.0	21.9	10 8	23 23.46	+3 3.9	2.095	3.040	7.4	20.8
10 18	23 19.25	-5 34.1	2.598	3.452	9.9	22.1	10 18	23 18.16	+2 29.9	2.160	3.038	10.6	21.0
<b>516309</b>	2016 <i>YO</i> <sub>4</sub>		9 16.9 245°07	5.6/20.6	18		<b>29626</b>	1998 <i>TV</i> <sub>12</sub>		9 16.9 168°81	0.8/17.7	18	
8 9	0 16.95	+10 40.1	2.140	2.877	16.1	21.8	8 9	0 4.88	+2 55.0	1.866	2.674	15.8	19.8
8 19	0 10.34	+11 57.2	2.032	2.865	13.7	21.6	8 19	0 0.80	+2 29.9	1.785	2.677	12.5	19.5
8 29	0 1.17	+13 2.3	1.945	2.853	10.7	21.4	8 29	23 54.52	+1 48.7	1.725	2.680	8.7	19.3
9 8	23 49.90	+13 52.8	1.883	2.841	7.7	21.2	9 8	23 46.58	+0 54.5	1.689	2.682	4.5	19.1
9 18	23 37.30	+14 26.5	1.849	2.828	5.8	21.1	9 18	23 37.78	-0 7.9	1.680	2.684	0.8	18.8
9 28	23 24.48	+14 43.6	1.846	2.814	6.5	21.1	9 28	23 29.11	-1 11.5	1.699	2.685	4.7	19.1
10 8	23 12.64	+14 47.2	1.871	2.801	9.2	21.2	10 8	23 21.55	-2 9.6	1.745	2.686	8.9	19.4
10 18	23 2.75	+14 42.1	1.924	2.787	12.4	21.4	10 18	23 15.86	-2 56.6	1.817	2.687	12.6	19.6
<b>258627</b>	2002 <i>DA</i> <sub>15</sub>		9 16.9 227°74	1.2/14.2	16		<b>356795</b>	2011 <i>UX</i> <sub>322</sub>		9 16.9 357°44	3.3/13.6	18	
8 9	23 53.23	-6 28.1	4.600	5.420	6.8	20.7	8 9	23 55.92	-4 35.5	1.443	2.308	16.7	19.5
8 19	23 50.45	-7 11.6	4.511	5.416	5.2	20.6	8 19	23 54.40	-5 56.2	1.374	2.304	12.9	19.3
8 29	23 46.85	-7 59.2	4.447	5.413	3.5	20.4	8 29	23 50.47	-7 33.1	1.326	2.302	8.6	19.0
9 8	23 42.68	-8 48.3	4.412	5.409	1.8	20.3	9 8	23 44.72	-9 17.9	1.302	2.300	4.4	18.8
9 18	23 38.21	-9 36.5	4.408	5.405	1.4	20.3	9 18	23 38.00	-11 0.0	1.302	2.300	4.0	18.7
9 28	23 33.77	-10 21.2	4.433	5.401	3.0	20.4	9 28	23 31.44	-12 28.6	1.328	2.300	8.0	19.0
10 8	23 29.68	-11 0.2	4.488	5.397	4.8	20.5	10 8	23 26.13	-13 35.2	1.378	2.301	12.3	19.2
10 18	23 26.25	-11 31.8	4.570	5.393	6.5	20.7	10 18	23 22.88	-14 15.7	1.448	2.303	16.1	19.5
<b>166388</b>	2002 <i>NC</i> <sub>5</sub>		9 16.9 67°82	0.1/17.0	18		<b>349256</b>	2007 <i>TJ</i> <sub>152</sub>		9 16.9 273°58	0.2/16.8	18	
8 9	0 2.26	+0 57.7	1.800	2.623	15.7	20.2	8 9	0 6.91	-2 8.6	1.922	2.741	14.9	20.8
8 19	23 58.78	+0 30.8	1.725	2.627	12.4	20.0	8 19	0 2.47	-2 6.1	1.828	2.729	11.8	20.6
8 29	23 53.14	-0 11.1	1.670	2.632	8.5	19.8	8 29	23 55.74	-2 13.5	1.755	2.716	8.1	20.4
9 8	23 45.88	-1 4.3	1.640	2.636	4.1	19.6	9 8	23 47.23	-2 28.3	1.707	2.704	3.9	20.1
9 18	23 37.81	-2 3.2	1.636	2.641	0.5	19.3	9 18	23 37.69	-2 46.7	1.686	2.691	0.6	19.8
9 28	23 29.91	-3 1.1	1.660	2.645	4.9	19.6	9 28	23 28.16	-3 4.1	1.694	2.678	5.0	20.1
10 8	23 23.13	-3 51.5	1.710	2.650	9.1	19.9	10 8	23 19.67	-3 15.9	1.728	2.665	9.3	20.3
10 18	23 18.19	-4 29.4	1.784	2.654	12.8	20.1	10 18	23 13.06	-3 18.7	1.787	2.652	13.0	20.5
<b>41839</b>	2000 <i>WO</i> <sub>59</sub>		9 16.9 182°27	8.1/8.0	18		<b>152215</b>	2005 <i>RA</i> <sub>10</sub>		9 16.9 337°23	5.3/20.7	18	
8 9	0 5.70	-22 36.0	1.951	2.801	13.6	19.2	8 9	0 3.21	+8 56.7	1.644	2.440	18.1	19.8
8 19	0 1.44	-24 6.2	1.893	2.801	11.1	19.0	8 19	0 0.09	+9 54.2	1.551	2.425	15.1	19.5
8 29	23 54.91	-25 33.2	1.857	2.802	9.0	18.9	8 29	23 54.43	+10 35.4	1.477	2.411	11.7	19.3
9 8	23 46.73	-26 48.1	1.847	2.801	8.1	18.8	9 8	23 46.71	+10 58.5	1.424	2.398	8.0	19.0
9 18	23 37.73	-27 42.9	1.862	2.801	9.0	18.9	9 18	23 37.75	+11 3.2	1.396	2.386	5.4	18.9
9 28	23 28.96	-28 12.0	1.903	2.800	11.1	19.0	9 28	23 28.68	+10 51.9	1.393	2.375	6.4	18.9
10 8	23 21.43	-28 13.6	1.966	2.799	13.5	19.2	10 8	23 20.73	+10 30.2	1.415	2.364	9.8	19.1
10 18	23 15.85	-27 49.3	2.050	2.798	15.8	19.4	10 18	23 14.89	+10 4.6	1.461	2.355	13.6	19.3
<b>259401</b>	2003 <i>QZ</i> <sub>8</sub>		9 16.9 349°05	3.3/20.3	18		<b>356271</b>	2009 <i>WN</i> <sub>113</sub>		9 16.9 278°30	0.9/18.7	16	
8 9	0 1.64	+8											

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>510499</b>	2011 YX <sub>45</sub>	9 16.9 132°80		7.5/27.7 18			<b>118955</b>	2000 WU <sub>100</sub>	9 16.9 313°56		0.9/16.1 18		
8 9	0 6.35	+26 46.1	2.992	3.616	14.0	21.7	8 9	0 0.55	- 2 22.4	1.860	2.694	14.8	19.4
8 19	0 1.28	+27 38.7	2.904	3.628	12.5	21.6	8 19	23 57.63	- 2 44.7	1.762	2.673	11.7	19.2
8 29	23 54.53	+28 13.5	2.834	3.641	10.8	21.4	8 29	23 52.55	- 3 19.4	1.686	2.653	7.9	18.9
9 8	23 46.51	+28 27.9	2.785	3.653	9.2	21.4	9 8	23 45.74	- 4 2.8	1.634	2.632	3.8	18.6
9 18	23 37.79	+28 21.2	2.761	3.664	7.9	21.3	9 18	23 37.91	- 4 49.9	1.608	2.612	1.2	18.4
9 28	23 29.12	+27 54.3	2.763	3.675	7.5	21.3	9 28	23 30.03	- 5 34.4	1.609	2.592	5.5	18.6
10 8	23 21.20	+27 10.9	2.792	3.686	8.0	21.3	10 8	23 23.10	- 6 10.1	1.636	2.573	9.8	18.9
10 18	23 14.65	+26 15.9	2.847	3.696	9.2	21.4	10 18	23 17.94	- 6 32.7	1.687	2.554	13.6	19.1
<b>508272</b>	2015 HY <sub>172</sub>	9 16.9 158°27		1.9/15.1 17			<b>452074</b>	2014 OQ <sub>358</sub>	9 16.9 73°94		0.1/16.8 18		
8 9	0 6.07	- 4 38.0	1.905	2.734	14.7	21.9	8 9	23 59.30	+ 0 32.8	2.356	3.170	12.7	21.4
8 19	0 1.62	- 5 18.5	1.831	2.740	11.4	21.7	8 19	23 55.94	- 0 3.8	2.279	3.177	9.9	21.2
8 29	23 55.01	- 6 9.3	1.778	2.745	7.6	21.5	8 29	23 50.95	- 0 52.1	2.225	3.185	6.7	21.1
9 8	23 46.79	- 7 5.3	1.751	2.749	3.7	21.3	9 8	23 44.79	- 1 48.6	2.196	3.192	3.2	20.8
9 18	23 37.77	- 8 0.5	1.752	2.753	2.3	21.2	9 18	23 38.04	- 2 48.9	2.195	3.200	0.5	20.6
9 28	23 28.94	- 8 48.3	1.781	2.756	5.9	21.4	9 28	23 31.43	- 3 47.6	2.223	3.207	4.1	20.9
10 8	23 21.25	- 9 23.5	1.836	2.759	9.7	21.7	10 8	23 25.64	- 4 39.6	2.280	3.215	7.4	21.2
10 18	23 15.43	- 9 43.2	1.916	2.762	13.1	21.9	10 18	23 21.23	- 5 21.1	2.361	3.223	10.4	21.4
<b>2488</b>	Bryan	9 16.9 349°97		8.6/11.7 18			<b>474494</b>	2003 TP <sub>55</sub>	9 16.9 56°52		8.2/10.7 17		
8 9	23 58.24	-15 26.4	0.895	1.800	20.7	15.9	8 9	0 10.76	-22 10.0	1.638	2.489	15.7	20.9
8 19	23 57.70	-16 21.2	0.839	1.787	16.5	15.6	8 19	0 5.57	-23 1.6	1.588	2.499	12.7	20.7
8 29	23 53.52	-17 19.9	0.799	1.777	12.1	15.3	8 29	23 57.75	-23 47.7	1.559	2.509	9.9	20.6
9 8	23 46.43	-18 10.0	0.778	1.769	8.9	15.1	9 8	23 48.09	-24 19.7	1.553	2.520	8.3	20.5
9 18	23 37.80	-18 38.3	0.776	1.763	9.5	15.1	9 18	23 37.67	-24 30.5	1.573	2.530	8.8	20.6
9 28	23 29.48	-18 34.8	0.795	1.758	13.3	15.3	9 28	23 27.76	-24 15.8	1.618	2.541	11.0	20.8
10 8	23 23.23	-17 56.4	0.831	1.756	18.0	15.6	10 8	23 19.50	-23 35.9	1.686	2.552	13.8	21.0
10 18	23 20.17	-16 46.0	0.884	1.756	22.3	15.8	10 18	23 13.61	-22 33.7	1.776	2.564	16.4	21.2
<b>316560</b>	2011 EZ <sub>22</sub>	9 16.9 175°76		0.7/16.2 18			<b>474631</b>	2004 TG <sub>336</sub>	9 16.9 267°42		6.1/23.7 18		
8 9	0 5.74	- 1 34.3	1.877	2.699	15.2	21.6	8 9	0 0.23	+17 55.6	1.882	2.624	17.9	21.5
8 19	0 1.45	- 2 4.7	1.797	2.701	11.9	21.4	8 19	23 57.44	+17 56.6	1.784	2.614	15.4	21.3
8 29	23 54.95	- 2 47.7	1.739	2.702	8.0	21.1	8 29	23 52.45	+17 31.7	1.703	2.605	12.4	21.1
9 8	23 46.79	- 3 39.3	1.706	2.703	3.8	20.9	9 8	23 45.70	+16 39.3	1.644	2.595	9.2	20.9
9 18	23 37.77	- 4 33.9	1.700	2.704	1.1	20.7	9 18	23 37.94	+15 20.8	1.608	2.585	6.6	20.7
9 28	23 28.89	- 5 25.0	1.722	2.704	5.3	21.0	9 28	23 30.17	+13 41.6	1.599	2.575	6.4	20.7
10 8	23 21.14	- 6 6.6	1.771	2.703	9.4	21.2	10 8	23 23.40	+11 50.5	1.617	2.565	8.9	20.8
10 18	23 15.26	- 6 34.9	1.844	2.702	13.0	21.5	10 18	23 18.46	+ 9 58.0	1.660	2.555	12.2	21.0
<b>199978</b>	2007 JZ <sub>1</sub>	9 16.9 33°44		8.9/ 9.6 18 R			<b>104216</b>	2000 EF <sub>119</sub>	9 16.9 203°88		5.3/10.3 18		
8 9	0 3.85	-19 29.6	1.344	2.219	17.1	18.9	8 9	0 2.54	-15 5.1	2.250	3.096	12.2	19.9
8 19	0 0.68	-20 58.8	1.302	2.230	13.7	18.7	8 19	23 58.69	-16 30.2	2.177	3.092	9.5	19.8
8 29	23 54.69	-22 25.6	1.281	2.241	10.6	18.6	8 29	23 52.95	-17 58.6	2.128	3.088	7.0	19.6
9 8	23 46.67	-23 38.4	1.281	2.253	8.9	18.5	9 8	23 45.82	-19 23.3	2.105	3.084	5.4	19.5
9 18	23 37.79	-24 27.2	1.305	2.266	9.8	18.6	9 18	23 37.95	-20 37.0	2.111	3.079	6.0	19.5
9 28	23 29.41	-24 45.6	1.352	2.280	12.4	18.8	9 28	23 30.18	-21 33.4	2.144	3.074	8.3	19.7
10 8	23 22.73	-24 32.4	1.421	2.294	15.5	19.0	10 8	23 23.33	-22 9.0	2.202	3.068	11.0	19.8
10 18	23 18.53	-23 50.6	1.508	2.308	18.3	19.3	10 18	23 18.05	-22 22.7	2.283	3.062	13.5	20.0
<b>392314</b>	2010 EU <sub>2</sub>	9 16.9 94°59		9.2/ 7.9 18			<b>43176</b>	1999 XM <sub>196</sub>	9 16.9 348°87		5.0/12.2 18		
8 9	0 6.34	-23 49.1	1.725	2.580	14.8	20.0	8 9	0 3.83	-15 5.1	1.996	2.845	13.3	18.6
8 19	0 2.17	-25 21.1	1.676	2.586	12.2	19.8	8 19	23 59.86	-15 45.1	1.924	2.842	10.5	18.5
8 29	23 55.51	-26 48.0	1.648	2.591	10.1	19.7	8 29	23 53.81	-16 26.6	1.876	2.840	7.5	18.3
9 8	23 47.04	-27 59.5	1.644	2.596	9.2	19.7	9 8	23 46.23	-17 3.4	1.852	2.837	5.2	18.1
9 18	23 37.74	-28 47.3	1.665	2.601	10.1	19.7	9 18	23 37.91	-17 29.6	1.854	2.835	5.5	18.1
9 28	23 28.80	-29 5.8	1.710	2.606	12.2	19.9	9 28	23 29.77	-17 40.4	1.884	2.833	8.0	18.3
10 8	23 21.30	-28 54.3	1.777	2.611	14.7	20.1	10 8	23 22.73	-17 33.1	1.939	2.832	11.0	18.5
10 18	23 15.99	-28 15.3	1.863	2.616	17.0	20.2	10 18	23 17.47	-17 7.7	2.016	2.831	13.8	18.7
<b>523577</b>	2018 EW <sub>7</sub>	9 16.9 253°54		6.4/10.4 18			<b>259360</b>	2003 GA <sub>57</sub>	9 16.9 303°61		1.1/14.8 16		
8 9	0 6.25	-18 2.6	1.988	2.835	13.5	21.5	8 9	23 55.29	- 6 48.8	4.245	5.064	7.4	20.6
8 19	0 1.92	-19 7.7	1.908	2.822	10.8	21.3	8 19	23 52.12	- 7 10.9	4.154	5.059	5.7	20.5
8 29	23 55.33	-20 13.7	1.851	2.808	8.1	21.1	8 29	23 48.04	- 7 36.5	4.089	5.054	3.8	20.3
9 8	23 47.00	-21 13.1	1.820	2.794	6.5	21.0	9 8	23 43.31	- 8 3.5	4.052	5.049	1.9	20.2
9 18	23 37.74	-21 58.2	1.815	2.780	7.1	21.0	9 18	23 38.26	- 8 29.6	4.044	5.044	1.3	20.1
9 28	23 28.57	-22 23.1	1.836	2.765	9.6	21.2	9 28	23 33.25	- 8 52.6	4.067	5.039	3.1	20.3
10 8	23 20.51	-22 24.7	1.882	2.750	12.5	21.3	10 8	23 28.65	- 9 10.4	4.118	5.034	5.0	20.4
10 18	23 14.34	-22 3.2	1.950	2.735	15.3	21.5	10 18	23 24.77	- 9 21.5	4.196	5.029	6.8	20.5
<b>341094</b>	2007 JK <sub>9</sub>	9 16.9 88°16		2.1/14.9 18			<b>263641</b>	2008 GX <sub>77</sub>	9 16.9 73°06		0.8/16.1 18		
8 9	0 3.45	- 3 52.2	1.683	2.523	15.8	20.3	8 9	23 59.79	- 0 55.5	2.151	2.974	13.4	21.1
8 19	23 59.76	- 4 48.4	1.621	2.536	12.2	20.1	8 19	23 56.50	- 1 41.3	2.075	2.979	10.5	20.9
8 29	23 53.81	- 5 57.2	1.580	2.549	8.1	19.9	8 29	23 51.44	- 2 39.2	2.021	2.985	7.0	20.7
9 8	23 46.22	- 7 12.0	1.563	2.561	3.9	19.7	9 8	23 45.07	- 3 45.0	1.993	2.991	3.3	20.5
9 18	23 37.85	- 8 25.3	1.573	2.574	2.6	19.6	9 18	23 38.05	- 4 53.4	1.993	2.997	1.1	20.3
9 28	23 29.77	- 9 29.1	1.610	2.586	6.4	19.9	9 28	23 31.18	- 5 58.0	2.021	3.003	4.7	20.6
10 8	23 22.95	-10 17.3	1.673	2.598	10.4	20.2	10 8	23 25.21	- 6 53.2	2.077	3.008	8.3	20.9
10 18	23 18.11	-10 46.7	1.760	2.610	13.9	20.4	10 18	23 20.75	- 7 35.3	2.158	3.014	11.4	21.1
<b>389567</b>	2010 VQ <sub>141</sub>	9 16.9 250°34		1.5/13.8 18			<b>462248</b>	2008 CC <sub>146</sub>	9 16.9 338°90		11.3/20.1 16		
8 9	23 54.26	- 8 46.7	4.504	5.329	6.9	21.5	8 9	0 17.11	+ 8				

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>261227</b>	2005 <i>UV</i> <sub>30</sub>		9 16.9	56°05	0°4/16.6	18	<b>133329</b>	2003 <i>SC</i> <sub>94</sub>		9 16.9	324°77	1°8/15.5	18
8 9	0 2.13	- 0 56.7	1.930	2.755	14.7	21.2	8 9	0 4.19	- 4 49.2	1.687	2.528	15.8	19.8
8 19	23 58.45	- 1 22.7	1.864	2.769	11.5	21.0	8 19	0 0.56	- 5 12.6	1.609	2.524	12.3	19.6
8 29	23 52.80	- 2 0.8	1.820	2.783	7.7	20.8	8 29	23 54.55	- 5 46.5	1.551	2.519	8.3	19.3
9 8	23 45.73	- 2 46.8	1.800	2.797	3.6	20.6	9 8	23 46.72	- 6 26.3	1.517	2.515	4.0	19.1
9 18	23 38.00	- 3 35.8	1.807	2.811	0.7	20.4	9 18	23 37.92	- 7 6.1	1.509	2.511	2.1	18.9
9 28	23 30.50	- 4 21.8	1.842	2.826	4.8	20.7	9 28	23 29.25	- 7 39.4	1.528	2.508	6.2	19.2
10 8	23 24.09	- 4 59.7	1.904	2.840	8.6	21.0	10 8	23 21.78	- 8 0.8	1.573	2.504	10.4	19.4
10 18	23 19.39	- 5 25.8	1.990	2.855	11.9	21.2	10 18	23 16.34	- 8 7.2	1.641	2.501	14.2	19.7
<b>478505</b>	2012 <i>SW</i> <sub>21</sub>		9 16.9	88°89	1°5/18.1	17	<b>387775</b>	2003 <i>UJ</i> <sub>28</sub>		9 16.9	0°66	1°8/18.2	18
8 9	0 8.93	+ 1 54.9	1.705	2.516	16.9	21.0	8 9	0 1.61	+ 1 51.3	1.300	2.144	19.4	20.3
8 19	0 4.10	+ 2 10.5	1.633	2.526	13.5	20.8	8 19	23 59.19	+ 2 11.7	1.229	2.141	15.5	20.1
8 29	23 56.82	+ 2 12.4	1.581	2.536	9.5	20.5	8 29	23 53.96	+ 2 15.1	1.177	2.140	11.0	19.8
9 8	23 47.74	+ 2 2.4	1.553	2.546	5.0	20.3	9 8	23 46.54	+ 2 3.4	1.145	2.139	5.9	19.5
9 18	23 37.76	+ 1 43.8	1.552	2.555	1.5	20.1	9 18	23 37.94	+ 1 40.3	1.137	2.140	1.8	19.2
9 28	23 28.02	+ 1 21.6	1.578	2.565	4.9	20.4	9 28	23 29.52	+ 1 12.5	1.153	2.143	5.7	19.5
10 8	23 19.62	+ 1 1.1	1.631	2.575	9.2	20.6	10 8	23 22.58	+ 0 47.1	1.193	2.146	10.7	19.8
10 18	23 13.34	+ 0 46.8	1.708	2.584	13.0	20.9	10 18	23 18.08	+ 0 30.1	1.254	2.151	15.2	20.1
<b>447372</b>	2006 <i>AS</i> <sub>48</sub>		9 16.9	194°59	4°0/10.6	18	<b>240967</b>	2006 <i>JK</i> <sub>2</sub>		9 16.9	272°32	5°9/11.1	18
8 9	23 59.06	- 11 53.1	2.693	3.533	10.6	21.1	8 9	0 3.89	- 15 0.1	1.819	2.674	14.2	20.2
8 19	23 55.67	- 13 31.6	2.616	3.531	8.2	20.9	8 19	0 0.26	- 16 10.5	1.743	2.663	11.2	20.0
8 29	23 50.76	- 15 15.3	2.566	3.530	5.7	20.7	8 29	23 54.32	- 17 24.9	1.689	2.653	8.2	19.8
9 8	23 44.74	- 16 58.2	2.543	3.527	4.1	20.6	9 8	23 46.60	- 18 35.2	1.660	2.643	6.1	19.7
9 18	23 38.12	- 18 33.7	2.551	3.525	4.7	20.7	9 18	23 37.94	- 19 33.1	1.657	2.632	6.7	19.7
9 28	23 31.56	- 19 55.7	2.588	3.523	6.8	20.8	9 28	23 29.38	- 20 11.6	1.680	2.622	9.4	19.8
10 8	23 25.70	- 21 0.2	2.652	3.520	9.3	21.0	10 8	23 21.96	- 20 26.8	1.728	2.611	12.6	20.0
10 18	23 21.07	- 21 45.1	2.739	3.517	11.5	21.1	10 18	23 16.50	- 20 18.1	1.797	2.601	15.6	20.2
<b>84117</b>	2002 <i>RB</i> <sub>26</sub>		9 16.9	345°96	3°5/19.0	18	<b>110051</b>	2001 <i>SE</i> <sub>95</sub>		9 16.9	195°23	3°3/20.1	18
8 9	0 0.85	+ 3 13.4	1.241	2.085	20.1	19.0	8 9	0 4.57	+ 8 51.9	1.833	2.618	16.8	19.7
8 19	23 58.93	+ 4 7.3	1.159	2.069	16.5	18.7	8 19	0 0.74	+ 8 53.7	1.746	2.617	13.9	19.5
8 29	23 54.04	+ 4 45.8	1.095	2.055	12.1	18.4	8 29	23 54.63	+ 8 36.1	1.678	2.616	10.3	19.3
9 8	23 46.69	+ 5 8.2	1.051	2.042	7.2	18.1	9 8	23 46.76	+ 7 59.7	1.634	2.614	6.5	19.0
9 18	23 37.87	+ 5 15.6	1.030	2.031	3.6	17.8	9 18	23 37.92	+ 7 7.5	1.615	2.612	3.5	18.9
9 28	23 29.01	+ 5 12.0	1.032	2.022	6.3	18.0	9 28	23 29.15	+ 6 5.2	1.623	2.610	4.9	19.0
10 8	23 21.59	+ 5 3.8	1.057	2.014	11.3	18.2	10 8	23 21.47	+ 5 0.2	1.659	2.607	8.7	19.2
10 18	23 16.76	+ 4 57.4	1.103	2.009	16.0	18.5	10 18	23 15.70	+ 3 59.7	1.719	2.604	12.4	19.4
<b>484937</b>	2009 <i>SR</i> <sub>174</sub>		9 16.9	336°42	0°4/17.3	18	<b>397332</b>	2006 <i>TA</i> <sub>63</sub>		9 16.9	344°63	6°4/22.5	17
8 9	0 5.25	- 1 15.8	2.066	2.882	14.2	21.0	8 9	23 56.22	+ 13 25.7	1.440	2.238	20.1	20.4
8 19	0 0.93	- 1 3.5	1.979	2.877	11.2	20.8	8 19	23 54.92	+ 13 58.7	1.354	2.225	17.1	20.2
8 29	23 54.57	- 1 0.5	1.913	2.872	7.7	20.6	8 29	23 51.09	+ 14 6.3	1.284	2.213	13.5	19.9
9 8	23 46.65	- 1 4.7	1.872	2.867	3.8	20.3	9 8	23 45.21	+ 13 46.3	1.234	2.202	9.7	19.7
9 18	23 37.90	- 1 13.0	1.858	2.863	0.5	20.0	9 18	23 38.11	+ 12 59.5	1.206	2.192	6.8	19.5
9 28	23 29.22	- 1 21.9	1.873	2.859	4.4	20.3	9 28	23 30.98	+ 11 51.3	1.201	2.184	7.0	19.5
10 8	23 21.54	- 1 27.4	1.916	2.856	8.3	20.6	10 8	23 25.05	+ 10 31.1	1.221	2.177	10.2	19.7
10 18	23 15.55	- 1 26.4	1.983	2.852	11.8	20.8	10 18	23 21.31	+ 9 9.4	1.262	2.171	14.1	19.9
<b>394471</b>	2007 <i>TF</i> <sub>10</sub>		9 16.9	290°24	6°7/12.3	18	<b>20591</b>	Sameergupta		9 16.9	83°52	0°6/17.5	18
8 9	0 14.59	- 20 11.9	1.832	2.669	14.9	20.4	8 9	0 4.97	+ 1 5.8	1.757	2.575	16.2	19.0
8 19	0 8.52	- 20 34.4	1.756	2.662	12.0	20.2	8 19	0 0.99	+ 0 56.4	1.682	2.581	12.8	18.7
8 29	23 59.83	- 20 53.0	1.703	2.655	9.0	20.0	8 29	23 54.73	+ 0 32.7	1.628	2.587	8.8	18.5
9 8	23 49.20	- 21 0.6	1.674	2.649	6.9	19.8	9 8	23 46.77	- 0 2.3	1.598	2.593	4.4	18.3
9 18	23 37.62	- 20 51.2	1.672	2.642	7.1	19.8	9 18	23 37.95	- 0 43.8	1.595	2.600	0.6	18.0
9 28	23 26.34	- 20 20.9	1.697	2.636	9.5	20.0	9 28	23 29.32	- 1 26.0	1.619	2.606	4.9	18.3
10 8	23 16.52	- 19 29.2	1.748	2.629	12.6	20.2	10 8	23 21.90	- 2 2.7	1.669	2.612	9.1	18.6
10 18	23 9.02	- 18 18.6	1.822	2.623	15.6	20.3	10 18	23 16.43	- 2 29.3	1.744	2.618	12.9	18.9
<b>523082</b>	2016 <i>QX</i> <sub>93</sub>		9 16.9	260°99	4°7/12.2	18	<b>216940</b>	1999 <i>TM</i> <sub>16</sub>		9 16.9	10°74	4°4/22.2	18
8 9	0 4.03	- 11 35.2	1.896	2.744	14.0	21.6	8 9	23 59.72	+ 13 41.0	2.201	2.956	15.2	20.1
8 19	0 0.33	- 12 41.4	1.809	2.728	11.0	21.4	8 19	23 56.58	+ 13 43.7	2.112	2.956	12.8	19.9
8 29	23 54.37	- 13 54.7	1.744	2.711	7.7	21.1	8 29	23 51.60	+ 13 27.0	2.041	2.957	10.0	19.7
9 8	23 46.65	- 15 8.1	1.705	2.695	5.0	20.9	9 8	23 45.24	+ 12 51.0	1.994	2.957	7.0	19.6
9 18	23 37.92	- 16 13.8	1.693	2.678	5.4	20.9	9 18	23 38.14	+ 11 57.8	1.973	2.958	4.7	19.4
9 28	23 29.20	- 17 4.2	1.708	2.661	8.3	21.1	9 28	23 31.10	+ 10 51.7	1.979	2.959	4.9	19.5
10 8	23 21.52	- 17 34.3	1.747	2.643	11.8	21.2	10 8	23 24.93	+ 9 39.3	2.013	2.960	7.4	19.6
10 18	23 15.70	- 17 42.1	1.810	2.625	15.1	21.4	10 18	23 20.27	+ 8 27.3	2.072	2.961	10.4	19.8
<b>25451</b>	1999 <i>XC</i> <sub>8</sub>		9 16.9	309°34	1°2/16.0	18 R	<b>510647</b>	2012 <i>TZ</i> <sub>233</sub>		9 16.9	318°64	6°2/11.2	18
8 9	0 2.82	- 1 58.2	1.407	2.254	18.0	18.1	8 9	0 1.51	- 13 8.3	1.521	2.388	15.9	20.6
8 19	0 0.04	- 2 29.0	1.327	2.245	14.2	17.9	8 19	23 58.83	- 14 27.4	1.449	2.378	12.4	20.3
8 29	23 54.51	- 3 16.3	1.267	2.237	9.6	17.6	8 29	23 53.59	- 15 53.6	1.398	2.368	8.9	20.1
9 8	23 46.82	- 4 15.2	1.230	2.228	4.5	17.3	9 8	23 46.34	- 17 17.4	1.371	2.358	6.4	19.9
9 18	23 37.90	- 5 18.3	1.216	2.220	1.6	17.1	9 18	23 38.02	- 18 28.8	1.369	2.349	7.0	20.0
9 28	23 29.05	- 6 16.4	1.229	2.212	6.7	17.4	9 28	23 29.81	- 19 18.8	1.391	2.340	10.2	20.1
10 8	23 21.57	- 7 1.6	1.266	2.205	11.7	17.6	10 8	23 22.91	- 19 42.1	1.437	2.332	13.9	20.3
10 18	23 16.44	- 7 28.4	1.324	2.198	16.1	17.9	10 18	23 18.21	- 19 37.8	1.502	2.324	17.3	20.5
<b>415924</b>													



EPHEMERIDES

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>477005</b>	2008 YO <sub>133</sub>		9 16.9 344°91	9°2/24.4	18		<b>260340</b>	2004 TU <sub>233</sub>		9 16.9 222°45	4°3/11.7	18	
8 9	0 2.17	+18 7.5	1.520	2.277	20.9	20.4	8 9	0 5.35	-16 40.0	2.787	3.618	10.5	20.8
8 19	23 59.61	+19 21.7	1.436	2.270	18.3	20.2	8 19	0 0.49	-17 18.1	2.704	3.610	8.3	20.6
8 29	23 54.32	+20 11.7	1.367	2.263	15.2	20.0	8 29	23 54.01	-17 56.3	2.645	3.602	6.0	20.5
9 8	23 46.82	+20 33.0	1.318	2.258	12.1	19.8	9 8	23 46.35	-18 30.1	2.614	3.593	4.4	20.4
9 18	23 37.96	+20 23.3	1.290	2.252	9.7	19.7	9 18	23 38.08	-18 54.9	2.611	3.584	4.7	20.4
9 28	23 29.04	+19 44.4	1.286	2.248	9.4	19.6	9 28	23 29.91	-19 7.3	2.637	3.574	6.6	20.5
10 8	23 21.38	+18 43.8	1.304	2.245	11.3	19.7	10 8	23 22.53	-19 5.0	2.690	3.564	9.0	20.6
10 18	23 16.04	+17 31.4	1.345	2.242	14.3	19.9	10 18	23 16.48	-18 47.9	2.767	3.554	11.2	20.8
<b>320148</b>	2007 FD <sub>5</sub>		9 16.9 341°96	2°3/14.4	18		<b>377654</b>	2005 UV <sub>167</sub>		9 16.9 264°76	0°1/17.2	16	
8 9	23 57.26	- 3 49.8	1.851	2.696	14.4	20.3	8 9	23 58.05	+ 0 5.0	3.410	4.209	9.5	22.4
8 19	23 54.97	- 4 55.6	1.771	2.690	11.1	20.1	8 19	23 54.58	- 0 14.0	3.304	4.194	7.4	22.2
8 29	23 50.67	- 6 14.8	1.713	2.684	7.4	19.8	8 29	23 49.91	- 0 40.8	3.223	4.179	5.1	22.1
9 8	23 44.85	- 7 41.5	1.680	2.678	3.6	19.6	9 8	23 44.35	- 1 13.3	3.169	4.163	2.5	21.9
9 18	23 38.21	- 9 8.0	1.673	2.673	2.7	19.5	9 18	23 38.31	- 1 49.1	3.143	4.148	0.3	21.6
9 28	23 31.66	-10 26.3	1.694	2.668	6.3	19.8	9 28	23 32.26	- 2 25.0	3.148	4.133	3.0	21.9
10 8	23 26.08	-11 29.4	1.741	2.664	10.2	20.0	10 8	23 26.71	- 2 58.1	3.182	4.117	5.6	22.0
10 18	23 22.18	-12 13.1	1.811	2.661	13.6	20.2	10 18	23 22.08	- 3 25.4	3.244	4.101	8.0	22.2
<b>223917</b>	2004 VT <sub>91</sub>		9 16.9 346°97	4°9/12.6	18		<b>514946</b>	2008 XY <sub>40</sub>		9 16.9 281°42	2°6/14.7	18	
8 9	0 7.27	-16 12.1	2.055	2.898	13.3	19.6	8 9	0 4.01	- 6 32.2	1.788	2.630	15.0	22.2
8 19	0 2.48	-16 37.0	1.982	2.895	10.5	19.5	8 19	0 0.41	- 7 8.3	1.702	2.618	11.7	22.0
8 29	23 55.59	-17 1.8	1.931	2.892	7.5	19.3	8 29	23 54.49	- 7 54.3	1.637	2.606	7.9	21.7
9 8	23 47.15	-17 20.6	1.906	2.890	5.3	19.1	9 8	23 46.76	- 8 44.8	1.596	2.593	4.0	21.5
9 18	23 37.96	-17 28.5	1.907	2.888	5.4	19.1	9 18	23 38.03	- 9 33.5	1.582	2.581	3.0	21.4
9 28	23 29.00	-17 21.2	1.936	2.886	7.8	19.3	9 28	23 29.33	-10 13.4	1.595	2.569	6.7	21.6
10 8	23 21.16	-16 57.2	1.992	2.885	10.7	19.5	10 8	23 21.73	-10 39.2	1.633	2.557	10.7	21.8
10 18	23 15.16	-16 16.8	2.070	2.883	13.5	19.7	10 18	23 16.05	-10 47.8	1.695	2.544	14.4	22.0
<b>382589</b>	2002 CW <sub>261</sub>		9 16.9 250°65	1°9/15.2	18		<b>287411</b>	2002 VE <sub>128</sub>		9 16.9 321°66	2°4/14.9	18	
8 9	0 3.14	- 3 40.2	1.823	2.658	15.0	21.5	8 9	0 2.43	- 5 59.0	1.733	2.578	15.2	20.1
8 19	23 59.66	- 4 27.1	1.736	2.648	11.7	21.2	8 19	23 59.19	- 6 32.1	1.651	2.569	11.9	19.9
8 29	23 53.93	- 5 27.0	1.671	2.639	7.9	21.0	8 29	23 53.65	- 7 15.4	1.591	2.561	8.0	19.6
9 8	23 46.47	- 6 34.7	1.631	2.629	3.8	20.7	9 8	23 46.34	- 8 3.6	1.555	2.553	4.0	19.4
9 18	23 38.03	- 7 43.5	1.617	2.618	2.3	20.6	9 18	23 38.08	- 8 50.4	1.545	2.546	2.8	19.3
9 28	23 29.64	- 8 45.7	1.631	2.608	6.2	20.8	9 28	23 29.91	- 9 29.0	1.562	2.538	6.5	19.5
10 8	23 22.29	- 9 34.7	1.671	2.597	10.3	21.0	10 8	23 22.86	- 9 54.0	1.604	2.531	10.6	19.7
10 18	23 16.82	-10 6.5	1.735	2.586	14.0	21.3	10 18	23 17.74	-10 2.3	1.669	2.525	14.3	19.9
<b>49881</b>	1999 XO <sub>138</sub>		9 16.9 147°34	0°8/16.3	17		<b>327504</b>	2006 AP <sub>70</sub>		9 16.9 189°81	3°3/20.9	18	
8 9	0 6.60	- 1 7.7	1.842	2.662	15.5	20.2	8 9	0 2.04	+10 9.3	2.556	3.315	13.3	21.6
8 19	0 2.14	- 1 45.1	1.769	2.671	12.1	20.0	8 19	23 58.10	+10 18.6	2.462	3.314	11.0	21.4
8 29	23 55.45	- 2 36.0	1.717	2.679	8.2	19.8	8 29	23 52.50	+10 13.5	2.390	3.314	8.3	21.3
9 8	23 47.12	- 3 35.6	1.690	2.687	3.8	19.5	9 8	23 45.67	+ 9 54.4	2.342	3.313	5.5	21.1
9 18	23 37.98	- 4 38.1	1.690	2.694	1.1	19.4	9 18	23 38.16	+ 9 22.9	2.321	3.312	3.4	21.0
9 28	23 29.04	- 5 36.5	1.719	2.701	5.3	19.7	9 28	23 30.70	+ 8 42.4	2.329	3.311	4.1	21.0
10 8	23 21.29	- 6 24.5	1.775	2.707	9.4	19.9	10 8	23 24.00	+ 7 57.5	2.365	3.310	6.7	21.2
10 18	23 15.45	- 6 58.1	1.855	2.712	13.0	20.2	10 18	23 18.63	+ 7 13.1	2.428	3.308	9.4	21.3
<b>402786</b>	2007 DK <sub>5</sub>		9 16.9 144°62	4°0/11.7	18		<b>160875</b>	2001 OQ <sub>21</sub>		9 16.9 329°46	2°9/19.6	17	
8 9	0 1.63	-12 54.4	2.538	3.377	11.2	22.2	8 9	0 4.80	+ 5 37.1	2.238	3.022	14.2	19.0
8 19	23 57.68	-14 0.9	2.471	3.385	8.6	22.0	8 19	0 0.56	+ 6 12.8	2.140	3.012	11.6	18.8
8 29	23 52.13	-15 10.6	2.428	3.391	6.1	21.9	8 29	23 54.36	+ 6 36.9	2.064	3.003	8.6	18.5
9 8	23 45.43	-16 17.8	2.412	3.398	4.2	21.7	9 8	23 46.64	+ 6 49.5	2.012	2.993	5.3	18.3
9 18	23 38.17	-17 17.1	2.425	3.404	4.5	21.8	9 18	23 38.05	+ 6 51.6	1.987	2.984	3.0	18.2
9 28	23 31.06	-18 3.6	2.466	3.410	6.7	21.9	9 28	23 29.44	+ 6 45.8	1.991	2.976	4.4	18.3
10 8	23 24.78	-18 34.1	2.534	3.416	9.2	22.1	10 8	23 21.67	+ 6 35.7	2.023	2.967	7.6	18.4
10 18	23 19.85	-18 47.6	2.626	3.421	11.5	22.3	10 18	23 15.47	+ 6 25.6	2.080	2.960	10.8	18.6
<b>152882</b>	2000 BR <sub>2</sub>		9 16.9 289°13	15°6/25.9	18		<b>22716</b>	1998 SV <sub>9</sub>		9 16.9 29°32	0°2/16.8	18	
8 9	0 13.94	+28 13.8	1.668	2.328	22.5	19.4	8 9	0 0.12	- 0 9.4	1.904	2.731	14.8	18.3
8 19	0 9.63	+30 48.5	1.567	2.307	20.9	19.2	8 19	23 57.02	- 0 36.6	1.833	2.739	11.6	18.1
8 29	0 1.87	+33 4.2	1.481	2.287	19.1	19.0	8 29	23 51.94	- 1 16.9	1.784	2.747	7.8	17.9
9 8	23 50.89	+34 51.3	1.414	2.266	17.3	18.8	9 8	23 45.43	- 2 6.5	1.759	2.756	3.8	17.7
9 18	23 37.47	+36 0.0	1.366	2.245	16.0	18.7	9 18	23 38.20	- 3 0.0	1.760	2.765	0.6	17.4
9 28	23 23.17	+36 24.3	1.339	2.224	15.6	18.6	9 28	23 31.16	- 3 51.4	1.789	2.774	4.7	17.8
10 8	23 9.87	+36 5.5	1.333	2.204	16.4	18.6	10 8	23 25.16	- 4 34.9	1.845	2.784	8.6	18.0
10 18	22 59.29	+35 12.0	1.347	2.183	18.2	18.7	10 18	23 20.84	- 5 6.5	1.925	2.794	12.0	18.3
<b>304232</b>	2006 QB <sub>185</sub>		9 16.9 4°04	0°9/17.4	18		<b>63924</b>	2001 SO <sub>42</sub>		9 16.9 4°24	1°8/15.7	18	
8 9	0 15.67	- 4 10.4	1.437	2.266	18.6	20.0	8 9	23 57.58	- 2 42.4	1.083	1.959	20.2	19.2
8 19	0 10.00	- 3 1.1	1.361	2.265	14.9	19.8	8 19	23 56.46	- 3 14.7	1.023	1.958	15.8	19.0
8 29	0 1.23	- 1 56.9	1.304	2.266	10.3	19.5	8 29	23 52.31	- 4 5.6	0.981	1.958	10.6	18.7
9 8	23 50.07	- 0 57.2	1.272	2.267	5.2	19.2	9 8	23 45.83	- 5 8.2	0.959	1.960	5.0	18.4
9 18	23 37.64	- 0 1.6	1.265	2.270	1.0	18.9	9 18	23 38.15	- 6 13.0	0.959	1.963	2.3	18.2
9 28	23 25.48	+ 0 51.1	1.286	2.273	5.8	19.3	9 28	23 30.74	- 7 9.2	0.983	1.968	7.6	18.6
10 8	23 15.00	+ 1 42.4	1.334	2.278	10.8	19.6	10 8	23 25.00	- 7 47.8	1.027	1.974	12.9	18.9
10 18	23 7.24	+ 2 34.2	1.405	2.284	15.1	19.9	10 18	23 21.88	- 8 4.3	1.092	1.981	17.6	19.2
<b>440384</b>	2005 EO <sub>238</sub>		9 16.9 165°91	1°8/15.4	18		<b>167451</b>	2003 XA <sub>10</sub>		9 16.9 309°76	5°9/20.6	18	
8 9	0 8.68	- 6 40.6	2.0										

EPHEMERIDES

9 16.9

9 17.0

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>187013</b>	2004 <i>TO</i> <sub>282</sub>		9 16.9	15°80	1.8/15.3	18	<b>311892</b>	2006 <i>XB</i> <sub>55</sub>		9 16.9	287°74	2.8/14.2	18
8 9	23 59.65	- 4 19.0	1.674	2.523	15.5	19.7	8 9	0 3.07	- 7 50.2	2.058	2.896	13.4	21.1
8 19	23 56.93	- 4 55.0	1.609	2.528	12.0	19.5	8 19	23 59.44	- 8 27.2	1.962	2.876	10.5	20.8
8 29	23 52.02	- 5 42.3	1.564	2.534	8.0	19.3	8 29	23 53.73	- 9 12.3	1.887	2.855	7.1	20.6
9 8	23 45.50	- 6 35.6	1.543	2.541	3.8	19.0	9 8	23 46.41	-10 0.5	1.839	2.835	3.8	20.3
9 18	23 38.20	- 7 28.3	1.547	2.549	2.2	18.9	9 18	23 38.14	-10 46.1	1.817	2.814	3.2	20.3
9 28	23 31.12	- 8 13.5	1.578	2.558	6.1	19.2	9 28	23 29.83	-11 23.2	1.823	2.793	6.4	20.4
10 8	23 25.21	- 8 45.7	1.635	2.567	10.1	19.5	10 8	23 22.42	-11 46.8	1.856	2.772	10.1	20.6
10 18	23 21.17	- 9 1.8	1.714	2.577	13.6	19.7	10 18	23 16.68	-11 54.4	1.912	2.752	13.4	20.8
<b>232175</b>	2002 <i>EA</i> <sub>55</sub>		9 16.9	64°19	0.7/16.5	18	<b>150091</b>	2006 <i>YQ</i> <sub>35</sub>		9 16.9	237°24	0.3/16.7	17
8 9	0 7.78	- 3 6.8	1.660	2.491	16.4	19.9	8 9	0 6.05	- 0 43.0	1.795	2.616	15.8	21.0
8 19	0 3.28	- 3 10.1	1.591	2.499	12.9	19.7	8 19	0 2.02	- 1 3.6	1.704	2.607	12.5	20.8
8 29	23 56.34	- 3 24.1	1.543	2.508	8.7	19.4	8 29	23 55.61	- 1 37.9	1.635	2.597	8.6	20.5
9 8	23 47.60	- 3 45.0	1.519	2.516	4.1	19.2	9 8	23 47.35	- 2 22.6	1.590	2.587	4.1	20.2
9 18	23 37.98	- 4 8.0	1.521	2.525	1.0	19.0	9 18	23 38.03	- 3 12.5	1.571	2.576	0.7	20.0
9 28	23 28.63	- 4 27.8	1.550	2.534	5.5	19.3	9 28	23 28.73	- 4 1.0	1.581	2.565	5.4	20.3
10 8	23 20.64	- 4 39.6	1.605	2.542	9.8	19.6	10 8	23 20.52	- 4 41.6	1.617	2.554	9.8	20.5
10 18	23 14.77	- 4 40.3	1.684	2.551	13.6	19.8	10 18	23 14.28	- 5 9.6	1.677	2.542	13.7	20.7
<b>476724</b>	2008 <i>UH</i> <sub>16</sub>		9 16.9	325°61	4.5/21.4	16	<b>139162</b>	2001 <i>FU</i> <sub>113</sub>		9 16.9	68°40	1.1/17.9	17
8 9	23 55.67	+12 55.0	1.449	2.250	19.8	21.2	8 9	0 5.64	+ 3 26.5	1.394	2.220	19.2	20.0
8 19	23 54.50	+12 37.3	1.357	2.235	16.7	20.9	8 19	0 1.94	+ 3 6.1	1.337	2.239	15.2	19.8
8 29	23 50.84	+11 49.0	1.282	2.219	12.8	20.6	8 29	23 55.57	+ 2 25.6	1.298	2.257	10.6	19.6
9 8	23 45.14	+10 29.8	1.227	2.205	8.5	20.3	9 8	23 47.26	+ 1 29.2	1.282	2.276	5.5	19.4
9 18	23 38.24	+ 8 43.5	1.196	2.191	4.9	20.1	9 18	23 38.07	+ 0 23.3	1.291	2.295	1.1	19.1
9 28	23 31.29	+ 6 39.1	1.190	2.178	5.8	20.1	9 28	23 29.28	- 0 43.1	1.326	2.314	5.4	19.5
10 8	23 25.51	+ 4 29.9	1.208	2.166	10.1	20.3	10 8	23 22.05	- 1 41.7	1.386	2.333	10.2	19.8
10 18	23 21.87	+ 2 29.0	1.250	2.155	14.6	20.6	10 18	23 17.18	- 2 26.4	1.469	2.351	14.3	20.1
<b>467382</b>	2004 <i>TA</i> <sub>161</sub>		9 16.9	334°13	3.8/14.9	17	<b>185401</b>	2006 <i>WG</i> <sub>96</sub>		9 16.9	211°12	4.4/13.0	18
8 9	0 2.12	- 8 19.6	0.972	1.859	21.0	20.2	8 9	0 5.28	- 9 30.7	1.600	2.452	15.9	20.4
8 19	0 0.75	- 8 28.1	0.900	1.841	16.7	19.9	8 19	0 1.59	-10 35.9	1.529	2.450	12.4	20.2
8 29	23 55.77	- 8 47.3	0.845	1.824	11.5	19.5	8 29	23 55.37	-11 50.3	1.478	2.448	8.5	20.0
9 8	23 47.76	- 9 10.2	0.808	1.808	6.0	19.2	9 8	23 47.22	-13 6.0	1.452	2.445	5.1	19.8
9 18	23 37.94	- 9 27.8	0.792	1.793	4.3	19.0	9 18	23 38.06	-14 14.0	1.452	2.443	5.1	19.8
9 28	23 28.12	- 9 30.9	0.798	1.780	9.5	19.3	9 28	23 29.07	-15 6.0	1.478	2.440	8.5	20.0
10 8	23 20.19	- 9 13.3	0.823	1.769	15.4	19.6	10 8	23 21.40	-15 36.4	1.528	2.437	12.4	20.2
10 18	23 15.46	- 8 33.0	0.867	1.759	20.6	19.8	10 18	23 15.89	-15 43.6	1.601	2.433	15.9	20.4
<b>272014</b>	2005 <i>ED</i> <sub>12</sub>		9 16.9	164°03	2.0/15.3	17	<b>200522</b>	2001 <i>CG</i> <sub>19</sub>		9 16.9	249°53	1.7/18.6	18
8 9	0 6.90	- 4 9.5	1.612	2.449	16.6	21.1	8 9	0 5.34	+ 4 11.8	2.116	2.909	14.6	21.4
8 19	0 2.77	- 4 51.2	1.539	2.452	12.9	20.8	8 19	0 1.17	+ 4 10.3	2.012	2.894	11.8	21.1
8 29	23 56.11	- 5 45.5	1.487	2.455	8.7	20.6	8 29	23 54.91	+ 3 54.6	1.930	2.878	8.5	20.9
9 8	23 47.54	- 6 46.8	1.459	2.457	4.2	20.3	9 8	23 46.99	+ 3 26.1	1.872	2.861	4.7	20.7
9 18	23 37.99	- 7 47.7	1.457	2.459	2.5	20.2	9 18	23 38.08	+ 2 47.7	1.842	2.844	1.7	20.4
9 28	23 28.65	- 8 40.3	1.483	2.461	6.6	20.5	9 28	23 29.11	+ 2 4.2	1.840	2.827	4.3	20.6
10 8	23 20.64	- 9 18.3	1.534	2.462	11.0	20.8	10 8	23 21.00	+ 1 21.0	1.866	2.809	8.3	20.8
10 18	23 14.80	- 9 38.3	1.608	2.463	14.8	21.0	10 18	23 14.55	+ 0 43.6	1.917	2.791	11.9	21.0
<b>25172</b>	1998 <i>SF</i> <sub>67</sub>		9 16.9	47°16	3.2/14.2	18	<b>397512</b>	2007 <i>TB</i> <sub>24</sub>		9 17.0	278°26	1.4/15.8	18
8 9	0 3.47	- 7 13.6	1.569	2.421	16.2	18.6	8 9	0 5.09	- 4 19.4	1.872	2.703	14.8	21.1
8 19	23 59.97	- 8 1.4	1.513	2.435	12.5	18.4	8 19	0 1.14	- 4 37.3	1.783	2.693	11.6	20.9
8 29	23 54.09	- 8 58.4	1.478	2.449	8.4	18.2	8 29	23 54.94	- 5 5.2	1.717	2.683	7.9	20.7
9 8	23 46.50	- 9 57.7	1.466	2.463	4.4	18.0	9 8	23 47.00	- 5 39.0	1.675	2.673	3.8	20.4
9 18	23 38.13	-10 51.8	1.481	2.478	3.7	18.0	9 18	23 38.09	- 6 13.7	1.659	2.662	1.7	20.2
9 28	23 30.12	-11 33.4	1.522	2.494	7.2	18.2	9 28	23 29.23	- 6 43.6	1.672	2.652	5.6	20.5
10 8	23 23.47	-11 57.8	1.587	2.509	11.1	18.5	10 8	23 21.42	- 7 3.7	1.711	2.642	9.8	20.7
10 18	23 18.90	-12 3.2	1.675	2.525	14.5	18.7	10 18	23 15.49	- 7 10.7	1.774	2.632	13.4	20.9
<b>315892</b>	2008 <i>KU</i> <sub>42</sub>		9 16.9	42°90	1.2/15.6	18	<b>146449</b>	2001 <i>RC</i> <sub>22</sub>		9 17.0	267°61	1.0/17.9	18
8 9	23 58.93	- 1 41.6	2.108	2.936	13.5	20.6	8 9	0 4.23	+ 2 55.7	1.753	2.567	16.4	19.8
8 19	23 55.94	- 2 37.7	2.032	2.940	10.5	20.4	8 19	0 0.77	+ 2 41.3	1.654	2.549	13.2	19.6
8 29	23 51.16	- 3 46.1	1.979	2.945	7.0	20.2	8 29	23 54.90	+ 2 9.8	1.575	2.532	9.3	19.3
9 8	23 45.06	- 5 2.2	1.951	2.949	3.3	20.0	9 8	23 47.08	+ 1 23.3	1.520	2.514	4.9	19.0
9 18	23 38.29	- 6 19.7	1.951	2.954	1.6	19.9	9 18	23 38.07	+ 0 26.4	1.491	2.495	1.0	18.7
9 28	23 31.66	- 7 32.1	1.980	2.959	5.1	20.2	9 28	23 28.97	- 0 34.3	1.489	2.477	5.1	19.0
10 8	23 25.92	- 8 33.3	2.035	2.963	8.6	20.4	10 8	23 20.91	- 1 31.3	1.514	2.458	9.7	19.2
10 18	23 21.69	- 9 19.4	2.116	2.968	11.8	20.6	10 18	23 14.80	- 2 17.8	1.562	2.438	13.9	19.4
<b>136263</b>	2003 <i>YR</i> <sub>68</sub>		9 16.9	212°30	5.5/10.7	18	<b>299652</b>	2006 <i>KE</i> <sub>116</sub>		9 17.0	23°20	8.2/25.7	16
8 9	0 1.71	-13 51.8	1.961	2.815	13.4	19.9	8 9	23 57.07	+20 29.4	1.418	2.177	22.0	20.1
8 19	23 58.34	-15 18.4	1.893	2.813	10.5	19.7	8 19	23 55.52	+20 49.8	1.351	2.187	19.1	19.9
8 29	23 52.91	-16 49.7	1.848	2.812	7.5	19.5	8 29	23 51.40	+20 36.8	1.300	2.198	15.7	19.7
9 8	23 45.95	-18 17.7	1.828	2.811	5.6	19.4	9 8	23 45.34	+19 48.7	1.266	2.211	12.0	19.6
9 18	23 38.19	-19 34.1	1.836	2.810	6.2	19.4	9 18	23 38.28	+18 27.0	1.254	2.224	9.0	19.4
9 28	23 30.58	-20 32.0	1.870	2.808	8.8	19.6	9 28	23 31.44	+16 39.3	1.265	2.238	8.2	19.4
10 8	23 24.01	-21 7.2	1.929	2.807	11.8	19.8	10 8	23 25.99	+14 37.4	1.301	2.253	10.2	19.6
10 18	23 19.18	-21 18.8	2.010	2.805	14.5	20.0	10 18	23 22.74	+12 34.5	1.360	2.269	13.4	19.8
<b>514386</b>	2016 <i>RJ</i> <sub>45</sub>		9 16.9	187°48	7.4/ 8.2	18	<b>180494</b>	2004 <i>CP</i> <sub>82</sub>					