

EPHEMERIDES

10 6.0

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>273728</b>	2007 <i>ET</i> <sub>97</sub>	10	6.0 283°95	0°4/ 5.7 18			<b>149051</b>	2002 <i>CU</i> <sub>7</sub>	10	6.0 202°59	0°9/ 7.1 18		
8 29	1 13.82	+ 6 3.2	1.578	2.412	16.8	21.3	8 29	1 11.08	+10 10.3	2.431	3.230	12.7	20.2
9 8	1 10.14	+ 5 47.0	1.483	2.393	13.2	21.0	9 8	1 6.87	+ 9 56.6	2.341	3.228	10.0	20.0
9 18	1 3.77	+ 5 16.5	1.409	2.373	8.9	20.7	9 18	1 0.94	+ 9 31.2	2.274	3.225	6.9	19.8
9 28	0 55.24	+ 4 34.7	1.359	2.353	4.0	20.4	9 28	0 53.76	+ 8 55.8	2.233	3.222	3.5	19.6
10 8	0 45.53	+ 3 47.1	1.335	2.333	1.3	20.2	10 8	0 45.98	+ 8 13.8	2.221	3.219	1.0	19.4
10 18	0 35.84	+ 3 0.8	1.337	2.313	6.6	20.4	10 18	0 38.35	+ 7 29.5	2.239	3.216	4.1	19.7
10 28	0 27.50	+ 2 23.3	1.365	2.293	11.5	20.7	10 28	0 31.64	+ 6 47.8	2.285	3.213	7.5	19.9
11 7	0 21.49	+ 2 0.5	1.416	2.273	15.9	20.9	11 7	0 26.42	+ 6 13.0	2.357	3.209	10.5	20.1
<b>20822</b>	Lintingnien	10	6.0 193°53	1°4/ 7.4 18			<b>41368</b>	2000 <i>AA</i> <sub>100</sub>	10	6.0 8°97	1°9/ 4.5 18		
8 29	1 12.14	+12 15.9	1.982	2.784	15.0	18.3	8 29	1 5.24	+ 4 50.9	1.138	2.012	19.3	17.7
9 8	1 8.09	+11 50.2	1.896	2.783	12.0	18.1	9 8	1 3.87	+ 4 6.3	1.082	2.014	14.9	17.4
9 18	1 1.94	+11 7.8	1.831	2.781	8.3	17.9	9 18	0 59.65	+ 3 4.0	1.044	2.018	9.8	17.2
9 28	0 54.24	+10 10.9	1.792	2.779	4.3	17.7	9 28	0 53.32	+ 1 51.2	1.027	2.024	4.3	16.9
10 8	0 45.81	+ 9 4.0	1.780	2.777	1.4	17.5	10 8	0 46.10	+ 0 38.0	1.034	2.031	2.8	16.8
10 18	0 37.59	+ 7 53.6	1.796	2.775	4.8	17.7	10 18	0 39.32	- 0 25.2	1.064	2.040	8.0	17.1
10 28	0 30.51	+ 6 46.8	1.841	2.772	8.8	17.9	10 28	0 34.27	- 1 9.5	1.117	2.050	13.0	17.5
11 7	0 25.30	+ 5 49.9	1.910	2.769	12.4	18.2	11 7	0 31.77	- 1 30.4	1.190	2.062	17.3	17.8
<b>78866</b>	2003 <i>QQ</i> <sub>79</sub>	10	6.0 315°19	2°3/ 4.5 18			<b>472008</b>	2013 <i>WR</i> <sub>71</sub>	10	6.0 297°17	1°6/ 4.8 18		
8 29	1 17.46	- 0 58.0	1.602	2.445	16.2	17.8	8 29	1 13.28	+ 3 33.1	1.462	2.309	17.2	21.6
9 8	1 12.84	- 0 51.3	1.514	2.428	12.6	17.6	9 8	1 9.83	+ 3 10.3	1.376	2.294	13.5	21.3
9 18	1 5.49	- 0 49.4	1.446	2.413	8.5	17.3	9 18	1 3.61	+ 2 34.4	1.311	2.278	9.0	21.0
9 28	0 55.99	- 0 48.7	1.404	2.397	4.1	17.0	9 28	0 55.18	+ 1 49.9	1.268	2.263	4.0	20.7
10 8	0 45.36	- 0 44.4	1.387	2.382	2.9	16.9	10 8	0 45.60	+ 1 3.5	1.251	2.248	2.4	20.5
10 18	0 34.86	- 0 32.4	1.398	2.367	7.2	17.1	10 18	0 36.14	+ 0 22.6	1.260	2.233	7.3	20.8
10 28	0 25.79	- 0 9.1	1.434	2.353	11.8	17.4	10 28	0 28.14	- 0 5.2	1.294	2.218	12.3	21.0
11 7	0 19.11	+ 0 27.3	1.494	2.340	15.9	17.6	11 7	0 22.61	- 0 15.4	1.349	2.204	16.7	21.3
<b>101310</b>	1998 <i>SJ</i> <sub>136</sub>	10	6.0 17°53	3°6/ 3.7 18			<b>450756</b>	2007 <i>JW</i> <sub>38</sub>	10	6.0 106°50	3°5/ 2.6 18		
8 29	1 9.77	+ 0 37.8	1.043	1.924	20.1	19.2	8 29	1 15.42	- 6 12.9	2.420	3.251	11.7	20.7
9 8	1 7.53	- 0 0.8	0.994	1.930	15.5	19.0	9 8	1 10.01	- 6 32.0	2.351	3.259	9.1	20.5
9 18	1 2.13	- 0 51.4	0.962	1.938	10.2	18.7	9 18	1 2.89	- 6 51.7	2.307	3.266	6.2	20.4
9 28	0 54.42	- 1 46.0	0.952	1.947	5.0	18.5	9 28	0 54.58	- 7 8.2	2.290	3.274	3.9	20.2
10 8	0 45.80	- 2 34.3	0.964	1.957	4.4	18.5	10 8	0 45.81	- 7 17.3	2.302	3.282	4.0	20.3
10 18	0 37.78	- 3 7.3	0.999	1.969	9.2	18.8	10 18	0 37.33	- 7 16.1	2.343	3.290	6.4	20.4
10 28	0 31.77	- 3 18.8	1.056	1.982	14.2	19.1	10 28	0 29.90	- 7 2.5	2.412	3.297	9.2	20.6
11 7	0 28.61	- 3 6.8	1.132	1.997	18.5	19.4	11 7	0 24.06	- 6 36.3	2.506	3.305	11.7	20.8
<b>44126</b>	1998 <i>HR</i> <sub>38</sub>	10	6.0 13°66	1°7/ 7.4 18			<b>74331</b>	1998 <i>US</i> <sub>47</sub>	10	6.0 12°08	8°8/ 29.3 18		
8 29	1 7.40	+13 5.2	1.149	1.996	20.9	17.4	8 29	1 19.11	-20 6.1	1.905	2.740	14.3	18.2
9 8	1 5.66	+12 32.7	1.086	1.998	16.7	17.2	9 8	1 13.34	-20 39.2	1.849	2.742	11.9	18.0
9 18	1 0.91	+11 32.9	1.040	2.001	11.6	16.9	9 18	1 5.29	-21 2.2	1.816	2.745	9.8	17.9
9 28	0 53.92	+10 9.1	1.015	2.006	6.0	16.6	9 28	0 55.69	-21 7.7	1.807	2.748	8.8	17.9
10 8	0 45.91	+ 8 30.4	1.013	2.011	1.7	16.4	10 8	0 45.54	-20 50.6	1.823	2.752	9.4	17.9
10 18	0 38.33	+ 6 49.0	1.035	2.017	6.6	16.7	10 18	0 35.92	-20 8.7	1.866	2.757	11.3	18.1
10 28	0 32.56	+ 5 17.9	1.080	2.024	12.1	17.0	10 28	0 27.79	-19 3.0	1.932	2.761	13.6	18.2
11 7	0 29.51	+ 4 7.1	1.147	2.032	16.8	17.3	11 7	0 21.83	-17 37.0	2.020	2.767	15.8	18.4
<b>403745</b>	2011 <i>AS</i> <sub>23</sub>	10	6.0 307°39	6°1/ 29.1 18			<b>478561</b>	2012 <i>TA</i> <sub>57</sub>	10	6.0 148°36	4°7/ 2.1 18		
8 29	1 9.26	-10 37.8	2.126	2.978	12.3	20.5	8 29	1 18.64	- 7 43.1	2.022	2.857	13.6	21.0
9 8	1 5.70	-11 48.3	2.054	2.969	9.8	20.4	9 8	1 12.86	- 8 12.6	1.954	2.863	10.6	20.8
9 18	1 0.26	-12 59.0	2.005	2.960	7.4	20.2	9 18	1 4.96	- 8 42.4	1.910	2.868	7.4	20.6
9 28	0 53.46	-14 2.8	1.982	2.951	6.1	20.1	9 28	0 55.57	- 9 6.8	1.892	2.873	5.0	20.5
10 8	0 46.04	-14 53.1	1.986	2.942	6.9	20.1	10 8	0 45.58	- 9 20.7	1.903	2.878	5.3	20.5
10 18	0 38.82	-15 24.6	2.017	2.933	9.3	20.3	10 18	0 35.97	- 9 20.0	1.941	2.883	7.9	20.7
10 28	0 32.63	-15 34.3	2.072	2.924	11.9	20.4	10 28	0 27.66	- 9 3.0	2.007	2.887	11.0	20.9
11 7	0 28.09	-15 21.9	2.149	2.916	14.4	20.6	11 7	0 21.32	- 8 29.6	2.096	2.891	13.8	21.1
<b>267000</b>	6229 <i>P-L</i>	10	6.0 341°39	3°4/ 7.9 18 R			<b>388229</b>	2006 <i>JC</i> <sub>81</sub>	10	6.0 67°88	3°8/ 2.1 18		
8 29	1 10.90	+11 26.8	1.122	1.971	21.2	20.3	8 29	1 10.26	+ 0 24.0	1.656	2.508	15.3	20.2
9 8	1 8.79	+12 4.5	1.047	1.959	17.2	20.0	9 8	1 6.71	+ 1 7.1	1.604	2.525	11.6	20.0
9 18	1 3.35	+12 22.9	0.989	1.948	12.4	19.7	9 18	1 0.99	- 2 47.9	1.574	2.543	7.6	19.9
9 28	0 55.19	+12 21.2	0.950	1.938	7.1	19.3	9 28	0 53.78	- 4 29.8	1.571	2.561	4.3	19.7
10 8	0 45.57	+12 1.9	0.933	1.929	3.4	19.1	10 8	0 46.03	- 6 3.5	1.594	2.579	4.7	19.8
10 18	0 36.12	+11 31.1	0.940	1.922	7.1	19.3	10 18	0 38.73	- 7 20.6	1.645	2.597	8.1	20.0
10 28	0 28.52	+10 57.9	0.969	1.916	12.6	19.6	10 28	0 32.80	- 8 15.5	1.721	2.616	11.7	20.3
11 7	0 23.98	+10 31.8	1.017	1.912	17.6	19.9	11 7	0 28.86	- 8 46.1	1.819	2.633	14.8	20.5
<b>315041</b>	2007 <i>CF</i> <sub>32</sub>	10	6.0 148°72	0°4/ 5.6 18			<b>398870</b>	2013 <i>CZ</i> <sub>60</sub>	10	6.0 333°20	3°1/ 3.3 18		
8 29	1 10.39	+ 6 25.2	2.545	3.356	11.8	21.8	8 29	1 11.52	- 0 43.0	1.762	2.610	14.7	20.7
9 8	1 6.16	+ 5 54.2	2.466	3.363	9.1	21.6	9 8	1 7.80	- 1 22.2	1.687	2.606	11.3	20.5
9 18	1 0.36	+ 5 13.7	2.410	3.369	6.0	21.4	9 18	1 1.85	- 2 9.1	1.634	2.602	7.5	20.3
9 28	0 53.45	+ 4 26.6	2.381	3.374	2.7	21.2	9 28	0 54.25	- 2 58.1	1.606	2.598	3.9	20.1
10 8	0 46.06	+ 3 37.0	2.381	3.380	0.9	21.1	10 8	0 45.90	- 3 42.5	1.605	2.595	3.8	20.1
10 18	0 38.87	+ 2 49.4	2.412	3.384	4.3	21.3	10 18	0 37.80	- 4 16.3	1.631	2.592	7.3	20.3
10 28	0 32.57	+ 2 8.2	2.471	3.389	7.5	21.6	10 28	0 30.96	- 4 34.7	1.682	2.589	11.2	20.5
11 7	0 27.67	+ 1 36.9	2.555	3.394	10.3	21.7	11 7	0 26.11	- 4 35.1	1.756	2.586	14.6	20.7
<b>515684</b>	2014 <i>PA</i> <sub>1</sub>	10	6.0 88°06	1°6/ 4.3 18			<b>263284</b>	2008 <i>BP</i> <sub>37</sub>	10	6.0 220°16	2°7/ 3.9 18		
8 29	1 10.14	+ 2 53.4	2.215	3.045	12.7								

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>24176</b>	1999 <i>XP</i> <sub>6</sub>	10	6.0 152°64	2°0/ 7.8 18			<b>510890</b>	2013 <i>CK</i> <sub>164</sub>	10	6.0 147°90	2°0/ 7.9 18		
8 29	1 15.21	+12 43.5	1.699	2.504	17.0	18.8	8 29	1 14.98	+11 43.9	2.188	2.980	14.1	21.7
9 8	1 10.80	+12 34.0	1.621	2.509	13.6	18.6	9 8	1 10.10	+11 56.5	2.104	2.983	11.3	21.5
9 18	1 3.92	+12 6.4	1.564	2.513	9.6	18.4	9 18	1 3.23	+11 56.7	2.042	2.986	8.0	21.3
9 28	0 55.22	+11 22.1	1.531	2.517	5.2	18.2	9 28	0 54.89	+11 45.1	2.005	2.989	4.4	21.1
10 8	0 45.67	+10 25.8	1.524	2.521	2.0	18.0	10 8	0 45.87	+11 24.2	1.996	2.992	2.0	20.9
10 18	0 36.43	+9 24.0	1.545	2.524	5.4	18.2	10 18	0 37.04	+10 57.7	2.016	2.994	4.5	21.1
10 28	0 28.60	+8 24.6	1.593	2.527	9.7	18.5	10 28	0 29.29	+10 30.4	2.065	2.997	8.0	21.3
11 7	0 23.00	+7 34.6	1.664	2.529	13.5	18.7	11 7	0 23.31	+10 7.1	2.140	2.999	11.2	21.5
<b>99205</b>	2001 <i>HL</i> <sub>22</sub>	10	6.0 224°50	6°4/28.7 18			<b>319271</b>	2006 <i>BT</i> <sub>42</sub>	10	6.0 253°49	1°8/ 4.1 18		
8 29	1 13.97	-12 59.7	2.325	3.164	11.9	20.3	8 29	1 10.11	+1 43.0	2.323	3.153	12.2	21.0
9 8	1 9.20	-14 10.2	2.249	3.154	9.6	20.1	9 8	1 6.19	+1 8.4	2.240	3.149	9.4	20.8
9 18	1 2.54	-15 19.5	2.197	3.142	7.4	19.9	9 18	1 0.54	+0 26.3	2.181	3.146	6.2	20.6
9 28	0 54.52	-16 20.5	2.172	3.131	6.4	19.9	9 28	0 53.65	-0 19.4	2.148	3.142	2.9	20.3
10 8	0 45.85	-17 6.9	2.174	3.118	7.2	19.9	10 8	0 46.18	-1 4.0	2.144	3.138	2.3	20.3
10 18	0 37.37	-17 34.0	2.204	3.105	9.3	20.0	10 18	0 38.88	-1 42.7	2.169	3.134	5.4	20.5
10 28	0 29.90	-17 39.1	2.259	3.091	11.8	20.1	10 28	0 32.51	-2 11.2	2.222	3.130	8.7	20.7
11 7	0 24.08	-17 22.7	2.336	3.077	14.1	20.3	11 7	0 27.66	-2 26.7	2.299	3.126	11.7	20.9
<b>400178</b>	2006 <i>WP</i> <sub>102</sub>	10	6.0 355°47	1°6/ 4.6 18			<b>367605</b>	2009 <i>TA</i> <sub>8</sub>	10	6.0 348°06	6°5/12.8 18		
8 29	1 10.63	+3 3.5	1.752	2.594	15.0	21.1	8 29	1 3.58	+24 28.0	1.623	2.397	18.9	19.5
9 8	1 7.13	+2 35.1	1.677	2.592	11.6	20.9	9 8	1 2.22	+24 36.9	1.534	2.385	16.2	19.3
9 18	1 1.41	+1 56.5	1.624	2.591	7.6	20.7	9 18	0 58.48	+24 17.8	1.461	2.374	13.0	19.1
9 28	0 54.06	+1 11.8	1.595	2.590	3.4	20.4	9 28	0 52.89	+23 28.8	1.409	2.364	9.5	18.8
10 8	0 45.97	+0 27.2	1.593	2.589	2.3	20.3	10 8	0 46.35	+22 11.7	1.381	2.356	6.9	18.7
10 18	0 38.14	-0 11.4	1.618	2.589	6.3	20.6	10 18	0 39.95	+20 32.6	1.377	2.349	7.0	18.7
10 28	0 31.56	-0 38.3	1.669	2.589	10.4	20.8	10 28	0 34.84	+18 41.7	1.398	2.343	9.7	18.8
11 7	0 26.95	-0 50.1	1.743	2.589	13.9	21.1	11 7	0 31.88	+16 51.1	1.444	2.339	13.3	19.0
<b>361853</b>	2008 <i>DQ</i> <sub>82</sub>	10	6.0 23°94	1°8/ 4.3 18			<b>51606</b>	2001 <i>HK</i> <sub>29</sub>	10	6.0 22°60	1°3/ 5.2 18		
8 29	1 10.47	+2 36.7	1.997	2.833	13.7	20.9	8 29	1 11.79	+4 45.0	1.159	2.021	19.8	18.6
9 8	1 6.69	+1 59.4	1.922	2.834	10.5	20.6	9 8	1 8.95	+4 23.1	1.103	2.028	15.3	18.4
9 18	1 0.96	+1 12.9	1.869	2.835	6.9	20.4	9 18	1 3.07	+3 45.5	1.065	2.035	10.1	18.1
9 28	0 53.81	+0 21.5	1.842	2.837	3.2	20.2	9 28	0 54.95	+2 57.8	1.048	2.044	4.5	17.8
10 8	0 46.05	-0 29.1	1.843	2.838	2.4	20.2	10 8	0 45.89	+2 8.2	1.055	2.053	2.1	17.7
10 18	0 38.52	-1 13.1	1.872	2.840	5.9	20.4	10 18	0 37.36	+1 25.3	1.087	2.063	7.6	18.1
10 28	0 32.10	-1 45.6	1.928	2.841	9.6	20.6	10 28	0 30.73	+0 57.1	1.141	2.074	12.7	18.4
11 7	0 27.43	-2 3.4	2.007	2.843	12.8	20.8	11 7	0 26.85	+0 47.8	1.216	2.086	17.1	18.7
<b>21377</b>	1998 <i>CO</i> <sub>1</sub>	10	6.0 186°38	1°4/ 7.4 18			<b>170749</b>	2004 <i>BT</i> <sub>139</sub>	10	6.0 144°55	0°8/ 6.8 18		
8 29	1 15.84	+10 49.8	2.270	3.061	13.7	19.9	8 29	1 12.60	+9 33.5	2.095	2.902	14.1	20.8
9 8	1 10.70	+10 47.7	2.180	3.061	10.9	19.7	9 8	1 8.30	+9 17.2	2.015	2.906	11.1	20.6
9 18	1 3.60	+10 33.2	2.113	3.060	7.6	19.5	9 18	1 2.04	+8 47.9	1.957	2.911	7.6	20.4
9 28	0 55.03	+10 7.6	2.072	3.059	4.0	19.3	9 28	0 54.35	+8 7.8	1.924	2.914	3.7	20.2
10 8	0 45.77	+9 33.9	2.059	3.057	1.4	19.1	10 8	0 46.03	+7 21.1	1.920	2.918	0.9	20.0
10 18	0 36.69	+8 56.3	2.077	3.054	4.4	19.3	10 18	0 37.94	+6 32.9	1.944	2.922	4.6	20.3
10 28	0 28.65	+8 19.9	2.123	3.051	8.0	19.5	10 28	0 30.95	+5 49.0	1.996	2.925	8.4	20.5
11 7	0 22.33	+7 49.4	2.195	3.047	11.2	19.7	11 7	0 25.72	+5 14.2	2.074	2.928	11.7	20.7
<b>491087</b>	2011 <i>SQ</i> <sub>10</sub>	10	6.0 341°87	1°4/ 4.6 18			<b>388915</b>	2008 <i>SA</i> <sub>115</sub>	10	6.0 339°79	3°7/ 3.8 18		
8 29	1 3.78	+8 7.9	1.430	2.283	17.2	20.7	8 29	1 13.35	-2 5.0	1.286	2.152	18.0	20.8
9 8	1 2.38	+6 47.4	1.351	2.272	13.4	20.4	9 8	1 10.16	-2 17.7	1.213	2.140	14.0	20.6
9 18	0 58.55	+5 3.9	1.292	2.262	8.8	20.1	9 18	1 3.97	-2 36.9	1.158	2.129	9.4	20.3
9 28	0 52.88	+3 4.1	1.257	2.253	3.8	19.8	9 28	0 55.44	-2 56.6	1.126	2.119	4.9	20.0
10 8	0 46.31	+0 58.6	1.248	2.245	2.4	19.7	10 8	0 45.76	-3 9.7	1.118	2.110	4.4	20.0
10 18	0 39.96	-0 59.9	1.265	2.238	7.4	20.0	10 18	0 36.33	-3 9.9	1.135	2.102	8.8	20.2
10 28	0 34.94	-2 40.0	1.307	2.232	12.2	20.3	10 28	0 28.61	-2 52.7	1.174	2.096	13.6	20.4
11 7	0 32.10	-3 53.9	1.370	2.227	16.4	20.5	11 7	0 23.58	-2 16.6	1.234	2.090	17.9	20.7
<b>478925</b>	2012 <i>XG</i> <sub>10</sub>	10	6.0 323°63	0°7/ 5.4 18			<b>91098</b>	1998 <i>HB</i> <sub>3</sub>	10	6.0 208°05	8°5/14.6 17		
8 29	1 12.20	+5 11.6	1.610	2.449	16.3	20.8	8 29	1 13.34	+31 58.3	1.339	2.073	24.0	19.8
9 8	1 8.65	+4 54.3	1.530	2.442	12.7	20.5	9 8	1 10.52	+31 30.4	1.251	2.070	21.0	19.6
9 18	1 2.62	+4 24.2	1.470	2.435	8.5	20.3	9 18	1 4.39	+30 18.1	1.177	2.066	17.3	19.3
9 28	0 54.71	+3 45.0	1.434	2.428	3.8	20.0	9 28	0 55.67	+28 15.9	1.122	2.062	13.1	19.1
10 8	0 45.87	+3 2.4	1.424	2.422	1.5	19.8	10 8	0 45.70	+25 25.7	1.089	2.058	9.4	18.9
10 18	0 37.25	+2 22.8	1.441	2.416	6.3	20.1	10 18	0 36.11	+21 58.8	1.082	2.052	8.7	18.8
10 28	0 29.99	+1 52.9	1.484	2.411	10.8	20.3	10 28	0 28.47	+18 16.0	1.103	2.047	11.8	19.0
11 7	0 24.93	+1 37.1	1.549	2.405	14.8	20.6	11 7	0 23.86	+14 40.5	1.148	2.041	16.2	19.2
<b>220053</b>	2002 <i>RU</i> <sub>104</sub>	10	6.0 29°65	0°6/ 6.4 18			<b>214676</b>	2006 <i>SA</i> <sub>189</sub>	10	6.0 292°56	1°6/ 4.6 18		
8 29	1 16.39	+6 25.7	1.189	2.038	20.2	18.9	8 29	1 12.12	+2 46.9	1.915	2.750	14.2	20.6
9 8	1 12.49	+6 44.4	1.131	2.047	15.9	18.7	9 8	1 8.17	+2 21.1	1.832	2.743	11.0	20.4
9 18	1 5.41	+6 48.6	1.092	2.057	10.7	18.4	9 18	1 2.09	+1 45.7	1.771	2.736	7.3	20.2
9 28	0 55.99	+6 40.5	1.074	2.067	5.0	18.2	9 28	0 54.43	+1 4.9	1.736	2.730	3.3	19.9
10 8	0 45.59	+6 25.1	1.080	2.079	1.1	17.9	10 8	0 46.02	+0 24.0	1.728	2.723	2.2	19.8
10 18	0 35.74	+6 8.6	1.111	2.091	6.8	18.3	10 18	0 37.79	-0 11.5	1.747	2.717	6.0	20.1
10 28	0 27.89	+5 57.7	1.166	2.104	12.0	18.7	10 28	0 30.70	-0 36.4	1.794	2.711	10.0	20.3
11 7	0 22.96	+5 57.8	1.241	2.117	16.5	19.0	11 7	0 25.49	-0 47.4	1.864	2.704	13.4	20.5
<b>261353</b>	2005 <i>UK</i> <sub>290</sub>	10	6.0 57°75	1°0/ 5.1 18			<b>321328</b>	2009 <i>HX</i> <sub>77</sub>	10	6.0 100°94	5°3/30.7 18		
8 29	1 15.06	+3 15.2	1.863	2.693	14.8	20.3	8 29	1 12.64	-8 14.1				

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>356787</b>	2011 <i>UF</i> <sub>309</sub>	10	6.0 313°97	1.4/ 4.8	18		<b>365403</b>	2009 <i>WD</i> <sub>261</sub>	10	6.1 342°29	5.4/12.3	18	
8 29	1 12.47	+ 3 0.0	1.850	2.685	14.6	21.0	8 29	1 5.32	+24 10.3	1.873	2.634	17.2	20.1
9 8	1 8.50	+ 2 38.5	1.769	2.680	11.3	20.8	9 8	1 3.21	+23 59.3	1.780	2.624	14.6	19.9
9 18	1 2.34	+ 2 7.4	1.710	2.675	7.5	20.5	9 18	0 58.95	+23 22.3	1.704	2.615	11.5	19.7
9 28	0 54.55	+ 1 30.6	1.676	2.670	3.4	20.3	9 28	0 53.06	+22 18.5	1.651	2.607	8.3	19.4
10 8	0 45.99	+ 0 53.4	1.670	2.666	2.0	20.2	10 8	0 46.37	+20 50.5	1.622	2.600	5.8	19.3
10 18	0 37.64	+ 0 21.3	1.691	2.661	6.0	20.4	10 18	0 39.83	+19 4.4	1.620	2.593	6.0	19.3
10 28	0 30.48	- 0 0.6	1.738	2.657	10.1	20.7	10 28	0 34.44	+17 10.0	1.645	2.587	8.8	19.4
11 7	0 25.27	- 0 8.8	1.809	2.653	13.6	20.9	11 7	0 30.95	+15 17.7	1.695	2.582	12.1	19.6
<b>512809</b>	2016 <i>US</i> <sub>91</sub>	10	6.0 196°83	0.7/ 6.8	18		<b>4209</b>	Briggs	10	6.1 32°13	8.5/14.5	18	R
8 29	1 12.08	+10 32.2	2.145	2.948	14.0	22.1	8 29	1 17.27	+29 31.2	2.242	2.930	16.6	16.3
9 8	1 7.92	+10 1.1	2.057	2.946	11.0	21.9	9 8	1 12.32	+30 48.8	2.156	2.934	14.6	16.1
9 18	1 1.81	+ 9 15.4	1.991	2.944	7.6	21.7	9 18	1 5.00	+31 47.1	2.088	2.939	12.4	16.0
9 28	0 54.28	+ 8 17.6	1.951	2.941	3.7	21.4	9 28	0 55.84	+32 21.8	2.043	2.943	10.3	15.9
10 8	0 46.06	+ 7 12.3	1.939	2.937	0.9	21.2	10 8	0 45.69	+32 31.0	2.022	2.948	8.8	15.8
10 18	0 38.03	+ 6 5.5	1.956	2.933	4.6	21.5	10 18	0 35.61	+32 15.7	2.026	2.954	8.5	15.8
10 28	0 31.04	+ 5 3.5	2.002	2.929	8.4	21.7	10 28	0 26.69	+31 40.2	2.057	2.959	9.7	15.9
11 7	0 25.77	+ 4 11.9	2.073	2.924	11.8	21.9	11 7	0 19.82	+30 51.9	2.112	2.964	11.6	16.0
<b>158140</b>	2001 <i>FO</i> <sub>100</sub>	10	6.0 207°21	2.0/ 3.4	18		<b>273901</b>	2007 <i>HM</i> <sub>48</sub>	10	6.1 81°97	2.2/ 4.2	16	
8 29	1 8.32	+ 1 47.4	2.516	3.345	11.4	20.3	8 29	1 16.06	+ 1 58.3	1.669	2.506	15.9	21.3
9 8	1 4.68	+ 0 48.8	2.433	3.343	8.7	20.1	9 8	1 11.16	+ 1 21.0	1.615	2.527	12.1	21.1
9 18	0 59.48	- 0 17.8	2.375	3.340	5.7	20.0	9 18	1 3.96	+ 0 34.4	1.583	2.549	7.9	20.9
9 28	0 53.16	- 1 28.1	2.344	3.337	2.8	19.8	9 28	0 55.20	- 0 15.8	1.577	2.570	3.7	20.7
10 8	0 46.34	- 2 36.8	2.342	3.333	2.6	19.7	10 8	0 45.89	- 1 3.1	1.597	2.591	2.8	20.7
10 18	0 39.68	- 3 38.4	2.370	3.330	5.5	19.9	10 18	0 37.11	- 1 41.5	1.645	2.612	6.7	21.0
10 28	0 33.85	- 4 28.4	2.426	3.326	8.5	20.1	10 28	0 29.83	- 2 5.9	1.720	2.633	10.6	21.2
11 7	0 29.39	- 5 3.7	2.507	3.322	11.2	20.3	11 7	0 24.72	- 2 14.2	1.818	2.653	13.9	21.5
<b>70094</b>	1999 <i>JS</i> <sub>106</sub>	10	6.0 56°71	3.2/ 3.9	18		<b>243106</b>	2007 <i>RG</i> <sub>108</sub>	10	6.1 43°57	0.5/ 6.5	18	
8 29	1 16.28	+ 0 47.4	1.208	2.069	19.3	18.8	8 29	1 11.92	+ 9 16.4	1.435	2.270	18.1	20.3
9 8	1 12.17	+ 0 10.1	1.158	2.083	14.8	18.5	9 8	1 8.41	+ 8 53.0	1.381	2.288	14.1	20.1
9 18	1 5.04	- 0 37.9	1.127	2.098	9.7	18.3	9 18	1 2.36	+ 8 12.1	1.345	2.307	9.5	19.9
9 28	0 55.78	- 1 29.5	1.119	2.113	4.7	18.1	9 28	0 54.54	+ 7 17.7	1.333	2.326	4.5	19.6
10 8	0 45.73	- 2 15.6	1.135	2.128	3.9	18.1	10 8	0 46.05	+ 6 16.6	1.347	2.345	0.9	19.4
10 18	0 36.35	- 2 48.4	1.176	2.144	8.5	18.4	10 18	0 38.07	+ 5 16.9	1.386	2.365	5.9	19.8
10 28	0 28.94	- 3 2.2	1.241	2.160	13.2	18.7	10 28	0 31.70	+ 4 26.2	1.451	2.386	10.4	20.2
11 7	0 24.32	- 2 55.3	1.326	2.176	17.2	19.0	11 7	0 27.65	+ 3 50.3	1.539	2.406	14.3	20.5
<b>71506</b>	2000 <i>CS</i> <sub>30</sub>	10	6.0 250°11	3.2/ 1.9	18		<b>517023</b>	2012 <i>UB</i> <sub>152</sub>	10	6.1 329°94	3.0/ 3.8	18	
8 29	1 8.18	- 2 1.4	2.437	3.277	11.4	19.8	8 29	1 9.17	+ 1 6.7	1.339	2.204	17.4	21.0
9 8	1 4.65	- 3 5.5	2.356	3.270	8.7	19.6	9 8	1 6.86	+ 0 31.8	1.258	2.186	13.6	20.7
9 18	0 59.50	- 4 15.6	2.298	3.263	5.9	19.4	9 18	1 1.76	- 0 15.4	1.198	2.170	9.1	20.4
9 28	0 53.19	- 5 26.7	2.268	3.256	3.5	19.3	9 28	0 54.47	- 1 8.9	1.159	2.154	4.4	20.1
10 8	0 46.34	- 6 32.9	2.266	3.249	3.8	19.3	10 8	0 46.02	- 2 0.3	1.145	2.139	3.8	20.0
10 18	0 39.64	- 7 28.8	2.294	3.242	6.5	19.4	10 18	0 37.73	- 2 41.0	1.156	2.125	8.4	20.2
10 28	0 33.78	- 8 10.1	2.348	3.234	9.4	19.6	10 28	0 30.93	- 3 3.7	1.189	2.112	13.4	20.5
11 7	0 29.34	- 8 34.5	2.427	3.227	12.0	19.8	11 7	0 26.63	- 3 4.3	1.243	2.100	17.7	20.7
<b>178900</b>	2001 <i>OL</i> <sub>80</sub>	10	6.0 224°10	10.3/10.7	17		<b>361932</b>	2008 <i>HK</i> <sub>5</sub>	10	6.1 80°16	0.5/ 6.6	18	
8 29	1 29.62	+21 50.3	1.321	2.083	23.1	20.0	8 29	1 11.78	+ 9 38.2	2.255	3.059	13.4	21.6
9 8	1 23.79	+23 52.6	1.236	2.077	19.9	19.7	9 8	1 7.34	+ 9 7.5	2.195	3.085	10.4	21.4
9 18	1 13.86	+25 37.2	1.168	2.071	16.3	19.5	9 18	1 1.19	+ 8 24.7	2.157	3.111	7.0	21.3
9 28	1 0.31	+26 54.6	1.120	2.065	12.7	19.3	9 28	0 53.90	+ 7 32.7	2.145	3.136	3.3	21.1
10 8	0 44.52	+27 37.7	1.096	2.058	10.4	19.1	10 8	0 46.21	+ 6 36.1	2.163	3.161	0.7	20.9
10 18	0 28.53	+27 44.3	1.097	2.050	11.2	19.2	10 18	0 38.86	+ 5 40.1	2.209	3.186	4.2	21.2
10 28	0 14.60	+27 21.1	1.122	2.042	14.3	19.3	10 28	0 32.60	+ 4 49.9	2.284	3.210	7.6	21.5
11 7	0 4.38	+26 40.8	1.169	2.033	18.1	19.5	11 7	0 27.93	+ 4 9.7	2.386	3.235	10.6	21.7
<b>304454</b>	2006 <i>UW</i> <sub>20</sub>	10	6.0 194°62	0.8/ 6.8	18		<b>95657</b>	2002 <i>GX</i> <sub>109</sub>	10	6.1 215°86	2.9/ 9.6	18	
8 29	1 12.39	+ 9 21.9	2.112	2.920	14.0	21.5	8 29	1 9.59	+17 33.9	2.416	3.185	13.5	20.0
9 8	1 8.18	+ 9 10.5	2.027	2.919	11.0	21.3	9 8	1 5.86	+17 21.5	2.323	3.183	11.1	19.8
9 18	1 2.00	+ 8 46.5	1.965	2.919	7.6	21.1	9 18	1 0.38	+16 52.5	2.251	3.180	8.2	19.6
9 28	0 54.37	+ 8 11.9	1.928	2.918	3.7	20.9	9 28	0 53.62	+16 7.8	2.203	3.177	5.2	19.5
10 8	0 46.05	+ 7 30.6	1.918	2.917	0.9	20.7	10 8	0 46.26	+15 10.1	2.184	3.173	3.0	19.3
10 18	0 37.93	+ 6 47.4	1.938	2.916	4.6	21.0	10 18	0 39.03	+14 3.9	2.193	3.170	4.3	19.4
10 28	0 30.88	+ 6 7.9	1.985	2.914	8.4	21.2	10 28	0 32.72	+12 55.3	2.231	3.167	7.2	19.6
11 7	0 25.56	+ 5 36.7	2.058	2.913	11.7	21.4	11 7	0 27.93	+11 50.3	2.296	3.163	10.2	19.8
<b>256437</b>	2007 <i>CA</i> <sub>12</sub>	10	6.0 2°79	2.5/ 3.8	18		<b>356598</b>	2011 <i>TQ</i> <sub>2</sub>	10	6.1 344°01	2.3/ 8.0	18	
8 29	1 9.22	+ 1 5.2	1.717	2.567	14.9	20.1	8 29	1 12.80	+12 22.4	1.814	2.620	16.0	20.9
9 8	1 6.07	+ 0 25.9	1.646	2.566	11.5	19.8	9 8	1 8.90	+12 30.4	1.731	2.618	12.9	20.6
9 18	1 0.74	- 0 22.7	1.597	2.566	7.5	19.6	9 18	1 2.69	+12 22.9	1.668	2.616	9.2	20.4
9 28	0 53.82	- 1 15.1	1.573	2.567	3.7	19.4	9 28	0 54.76	+12 0.5	1.629	2.614	5.1	20.2
10 8	0 46.19	- 2 4.6	1.575	2.568	3.2	19.4	10 8	0 45.98	+11 26.4	1.617	2.613	2.3	20.0
10 18	0 38.84	- 2 44.9	1.604	2.570	6.9	19.6	10 18	0 37.39	+10 45.7	1.632	2.612	5.1	20.2
10 28	0 32.74	- 3 10.7	1.658	2.572	10.8	19.8	10 28	0 30.06	+10 4.8	1.674	2.611	9.1	20.4
11 7	0 28.59	- 3 19.0	1.735	2.576	14.3	20.1	11 7	0 24.76	+ 9 29.9	1.741	2.610	12.8	20.6
<b>299670</b>	2006 <i>QU</i> <sub>7</sub>	10	6.1 337°27	5.2/30.9	18		<b>324817</b>	2007 <i>HZ</i> <sub>75</sub>	10	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>382522</b>	2001 <i>SS</i> <sub>212</sub>	10	6.1 344°47	3°5/ 3.6 18			<b>137375</b>	1999 <i>TM</i> <sub>131</sub>	10	6.1 321°47	0°5/ 6.5 18		
8 29	1 7.97	+ 0 48.3	1.145	2.022	18.9	20.0	8 29	1 10.28	+ 10 36.0	1.377	2.214	18.6	19.9
9 8	1 6.25	+ 0 10.3	1.076	2.010	14.7	19.7	9 8	1 7.60	+ 9 57.9	1.300	2.209	14.8	19.6
9 18	1 1.49	- 0 40.9	1.025	2.000	9.8	19.4	9 18	1 2.17	+ 8 57.5	1.242	2.204	10.1	19.3
9 28	0 54.37	- 1 38.1	0.996	1.991	4.9	19.1	9 28	0 54.63	+ 7 38.4	1.207	2.199	4.8	19.0
10 8	0 46.07	- 2 31.5	0.989	1.983	4.4	19.0	10 8	0 46.06	+ 6 8.4	1.196	2.195	1.0	18.7
10 18	0 38.05	- 3 11.4	1.006	1.976	9.2	19.3	10 18	0 37.75	+ 4 37.8	1.211	2.191	6.5	19.1
10 28	0 31.78	- 3 30.2	1.045	1.971	14.4	19.6	10 28	0 30.99	+ 3 17.5	1.252	2.187	11.6	19.4
11 7	0 28.25	- 3 24.5	1.103	1.968	18.9	19.8	11 7	0 26.70	+ 2 15.9	1.314	2.183	16.1	19.7
<b>97310</b>	1999 <i>XU</i> <sub>197</sub>	10	6.1 264°00	1°1/ 4.9 17			<b>14690</b>	2000 <i>AR</i> <sub>25</sub>	10	6.1 5°23	0°2/ 6.5 18		
8 29	1 12.36	+ 2 45.8	2.489	3.309	11.8	19.8	8 29	1 4.02	+ 7 40.0	4.245	5.042	7.7	17.8
9 8	1 7.93	+ 2 29.7	2.390	3.293	9.2	19.6	9 8	1 0.76	+ 7 26.3	4.155	5.042	6.0	17.7
9 18	1 1.75	+ 2 6.5	2.315	3.277	6.1	19.4	9 18	0 56.60	+ 7 6.9	4.089	5.042	4.0	17.5
9 28	0 54.26	+ 1 39.0	2.267	3.260	2.7	19.1	9 28	0 51.82	+ 6 43.1	4.052	5.043	1.9	17.4
10 8	0 46.11	+ 1 10.9	2.247	3.243	1.6	19.0	10 8	0 46.76	+ 6 16.8	4.044	5.043	0.4	17.2
10 18	0 38.03	+ 0 46.0	2.257	3.227	4.9	19.2	10 18	0 41.78	+ 5 50.3	4.067	5.043	2.5	17.4
10 28	0 30.78	+ 0 28.4	2.296	3.210	8.2	19.4	10 28	0 37.25	+ 5 25.8	4.120	5.044	4.6	17.6
11 7	0 25.01	+ 0 20.8	2.360	3.192	11.2	19.6	11 7	0 33.50	+ 5 5.5	4.201	5.044	6.5	17.7
<b>155875</b>	2001 <i>DR</i> <sub>91</sub>	10	6.1 270°05	0°1/ 6.2 18			<b>259494</b>	2003 <i>SQ</i> <sub>237</sub>	10	6.1 22°98	1°3/ 5.3 18		
8 29	1 7.61	+ 10 6.7	2.296	3.106	13.0	19.9	8 29	1 12.95	+ 3 55.0	0.990	1.863	21.5	19.7
9 8	1 4.39	+ 9 13.6	2.202	3.096	10.2	19.7	9 8	1 10.25	+ 3 49.4	0.941	1.872	16.7	19.4
9 18	0 59.44	+ 8 5.5	2.130	3.087	6.9	19.5	9 18	1 4.13	+ 3 28.5	0.909	1.882	11.1	19.2
9 28	0 53.22	+ 6 45.5	2.085	3.077	3.2	19.3	9 28	0 55.50	+ 2 57.9	0.897	1.893	4.9	18.9
10 8	0 46.38	+ 5 19.1	2.069	3.068	0.7	19.0	10 8	0 45.88	+ 2 25.5	0.908	1.906	2.1	18.7
10 18	0 39.67	+ 3 52.7	2.083	3.058	4.6	19.3	10 18	0 36.93	+ 1 59.9	0.941	1.919	8.0	19.1
10 28	0 33.86	+ 2 33.1	2.124	3.049	8.2	19.5	10 28	0 30.17	+ 1 48.2	0.996	1.934	13.5	19.5
11 7	0 29.54	+ 1 25.8	2.192	3.039	11.4	19.7	11 7	0 26.51	+ 1 54.4	1.071	1.950	18.2	19.8
<b>310702</b>	2002 <i>JN</i> <sub>73</sub>	10	6.1 138°64	2°9/ 2.2 18			<b>210212</b>	2007 <i>RP</i> <sub>1</sub>	10	6.1 5°81	3°2/ 7.4 18		
8 29	1 10.22	- 3 9.5	2.810	3.641	10.3	21.4	8 29	1 15.04	+ 7 42.7	0.888	1.758	23.7	19.5
9 8	1 5.87	- 4 1.9	2.743	3.652	7.9	21.3	9 8	1 12.57	+ 8 55.4	0.832	1.757	19.0	19.2
9 18	1 0.12	- 4 57.7	2.701	3.663	5.3	21.1	9 18	1 6.16	+ 9 53.2	0.791	1.758	13.4	18.9
9 28	0 53.43	- 5 52.6	2.687	3.674	3.2	21.0	9 28	0 56.62	+ 10 34.4	0.769	1.761	7.2	18.6
10 8	0 46.35	- 6 42.2	2.703	3.684	3.4	21.0	10 8	0 45.58	+ 11 0.1	0.768	1.765	3.2	18.4
10 18	0 39.49	- 7 22.5	2.748	3.693	5.6	21.2	10 18	0 35.04	+ 11 14.1	0.788	1.771	7.9	18.7
10 28	0 33.44	- 7 50.5	2.821	3.703	8.1	21.4	10 28	0 26.95	+ 11 23.8	0.829	1.779	13.7	19.0
11 7	0 28.67	- 8 4.6	2.919	3.711	10.4	21.5	11 7	0 22.53	+ 11 36.7	0.889	1.789	18.9	19.4
<b>227250</b>	2005 <i>ST</i> <sub>59</sub>	10	6.1 257°95	0°1/ 6.2 18			<b>187488</b>	2006 <i>SZ</i> <sub>185</sub>	10	6.1 162°20	0°8/ 5.4 17		
8 29	1 14.45	+ 7 33.8	1.759	2.581	15.8	21.4	8 29	1 17.12	+ 4 58.4	1.684	2.511	16.2	21.3
9 8	1 10.35	+ 7 17.9	1.666	2.567	12.5	21.2	9 8	1 12.28	+ 4 39.7	1.609	2.515	12.6	21.1
9 18	1 3.79	+ 6 47.8	1.594	2.553	8.5	20.9	9 18	1 4.95	+ 4 9.1	1.555	2.518	8.4	20.8
9 28	0 55.33	+ 6 6.1	1.546	2.539	3.9	20.6	9 28	0 55.79	+ 3 30.3	1.527	2.520	3.7	20.6
10 8	0 45.86	+ 5 17.8	1.526	2.525	0.9	20.4	10 8	0 45.80	+ 2 48.9	1.525	2.523	1.5	20.4
10 18	0 36.48	+ 4 29.1	1.533	2.510	5.8	20.7	10 18	0 36.13	+ 2 11.0	1.551	2.525	6.1	20.7
10 28	0 28.34	+ 3 46.8	1.567	2.495	10.3	20.9	10 28	0 27.90	+ 1 42.6	1.604	2.526	10.5	21.0
11 7	0 22.33	+ 3 16.8	1.625	2.480	14.4	21.1	11 7	0 21.91	+ 1 27.8	1.680	2.527	14.3	21.3
<b>225041</b>	2007 <i>GR</i> <sub>7</sub>	10	6.1 54°93	0°0/ 5.9 18			<b>238514</b>	2004 <i>TV</i> <sub>98</sub>	10	6.1 320°71	1°1/ 5.2 16		
8 29	1 13.15	+ 5 49.4	2.193	3.010	13.3	20.0	8 29	1 11.32	+ 4 45.8	1.476	2.323	17.1	21.2
9 8	1 8.62	+ 5 46.8	2.115	3.013	10.4	19.8	9 8	1 8.28	+ 4 23.7	1.393	2.310	13.4	20.9
9 18	1 2.22	+ 5 35.2	2.059	3.017	6.9	19.6	9 18	1 2.59	+ 3 47.8	1.331	2.298	8.9	20.6
9 28	0 54.46	+ 5 16.7	2.029	3.021	3.2	19.4	9 28	0 54.83	+ 3 2.0	1.292	2.287	4.0	20.3
10 8	0 46.10	+ 4 55.0	2.027	3.025	0.8	19.2	10 8	0 46.02	+ 2 12.9	1.278	2.276	1.9	20.1
10 18	0 37.96	+ 4 33.9	2.054	3.030	4.7	19.5	10 18	0 37.37	+ 1 28.1	1.290	2.265	6.9	20.4
10 28	0 30.86	+ 4 17.5	2.109	3.034	8.2	19.7	10 28	0 30.15	+ 0 54.9	1.327	2.256	11.8	20.7
11 7	0 25.45	+ 4 9.3	2.190	3.038	11.4	19.9	11 7	0 25.28	+ 0 38.3	1.386	2.246	16.0	20.9
<b>269401</b>	2009 <i>RO</i> <sub>8</sub>	10	6.1 312°11	0°7/ 6.8 17			<b>31918</b>	Onkargujral	10	6.1 57°06	0°8/ 5.4 18		
8 29	1 8.95	+ 9 28.9	1.956	2.776	14.6	21.3	8 29	1 12.50	+ 6 50.5	1.431	2.272	17.8	18.8
9 8	1 5.96	+ 9 13.0	1.847	2.745	11.6	21.0	9 8	1 8.95	+ 6 10.9	1.370	2.284	13.8	18.6
9 18	1 0.84	+ 8 42.3	1.758	2.715	8.0	20.8	9 18	1 2.81	+ 5 15.0	1.330	2.296	9.1	18.3
9 28	0 54.00	+ 7 58.5	1.694	2.685	4.0	20.5	9 28	0 54.81	+ 4 8.0	1.313	2.308	4.0	18.1
10 8	0 46.18	+ 7 5.7	1.656	2.655	0.9	20.2	10 8	0 46.05	+ 2 57.8	1.322	2.320	1.6	17.9
10 18	0 38.30	+ 6 9.5	1.647	2.625	5.2	20.4	10 18	0 37.76	+ 1 53.0	1.357	2.332	6.6	18.3
10 28	0 31.38	+ 5 17.0	1.664	2.596	9.5	20.6	10 28	0 31.07	+ 1 1.5	1.417	2.345	11.2	18.6
11 7	0 26.26	+ 4 34.2	1.705	2.567	13.4	20.8	11 7	0 26.75	+ 0 28.3	1.500	2.358	15.2	18.9
<b>367727</b>	2010 <i>UU</i> <sub>26</sub>	10	6.1 11°07	3°0/ 4.5 16			<b>282717</b>	2006 <i>BZ</i> <sub>264</sub>	10	6.1 157°12	2°2/ 8.6 18		
8 29	1 10.76	+ 0 8.0	0.874	1.765	22.0	19.9	8 29	1 12.10	+ 13 50.2	2.574	3.352	12.6	21.0
9 8	1 8.93	+ 0 4.5	0.826	1.768	17.1	19.6	9 8	1 7.64	+ 13 57.1	2.486	3.354	10.1	20.9
9 18	1 3.45	- 0 9.7	0.795	1.772	11.3	19.3	9 18	1 1.49	+ 13 51.9	2.420	3.357	7.3	20.7
9 28	0 55.25	- 0 27.9	0.783	1.779	5.3	19.1	9 28	0 54.14	+ 13 35.1	2.379	3.359	4.3	20.5
10 8	0 45.92	- 0 41.5	0.792	1.788	3.9	19.0	10 8	0 46.21	+ 13 8.8	2.368	3.361	2.2	20.4
10 18	0 37.27	- 0 42.8	0.822	1.798	9.4	19.4	10 18	0 38.43	+ 12 36.5	2.385	3.363	4.0	20.5
10 28	0 30.94	- 0 26.6	0.872	1.810	14.9	19.7	10 28	0 31.53	+ 12 2.3	2.432	3.364	6.9	20.7
11 7	0 27.90	+ 0 9.0	0.941	1.824	19.7	20.1	11 7	0 26.09	+ 11 30.9	2.505	3.366	9.7	20.9
<b>263880</b>	2009 <i>EW</i> <sub>5</sub>	10	6.1 59°76	1°6/ 4.8 17			<b>510979</b>	2013 <i>HC</i> <sub>7</sub>	10	6.1 112°18	2°3/ 3.1 18		
8 29	1 13.51	+ 6 9.5	1.1										

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>309012</b>	2006 <i>UG</i> <sub>83</sub>	10	6.1 124°36	1°8/ 4.2 18			<b>129948</b>	1999 <i>TL</i> <sub>212</sub>	10	6.1 74°80	0°1/ 6.2 18		
8 29	1 11.49	+ 2 19.5	2.074	2.906	13.4	21.1	8 29	1 19.25	+ 5 43.3	1.695	2.515	16.4	19.5
9 8	1 7.44	+ 1 41.6	1.999	2.909	10.3	20.9	9 8	1 13.73	+ 5 51.8	1.634	2.534	12.8	19.3
9 18	1 1.48	+ 0 55.0	1.947	2.912	6.8	20.7	9 18	1 5.78	+ 5 49.7	1.593	2.552	8.5	19.1
9 28	0 54.15	+ 0 4.0	1.921	2.915	3.1	20.5	9 28	0 56.14	+ 5 39.3	1.578	2.571	3.9	18.9
10 8	0 46.22	- 0 45.8	1.923	2.918	2.4	20.4	10 8	0 45.84	+ 5 24.7	1.591	2.589	0.9	18.7
10 18	0 38.54	- 1 29.0	1.954	2.921	5.8	20.6	10 18	0 36.03	+ 5 10.2	1.631	2.608	5.5	19.1
10 28	0 31.93	- 2 0.9	2.012	2.923	9.4	20.9	10 28	0 27.76	+ 5 0.9	1.699	2.626	9.7	19.4
11 7	0 27.05	- 2 18.3	2.094	2.926	12.5	21.1	11 7	0 21.76	+ 5 0.2	1.791	2.644	13.3	19.6
<b>180778</b>	2004 <i>RN</i> <sub>16</sub>	10	6.1 39°21	1°3/ 4.9 18			<b>260152</b>	2004 <i>RU</i> <sub>26</sub>	10	6.1 49°64	1°6/ 7.5 18		
8 29	1 12.19	+ 3 25.6	1.678	2.518	15.6	19.8	8 29	1 13.78	+ 10 24.4	2.122	2.923	14.2	20.7
9 8	1 8.23	+ 3 2.8	1.623	2.537	12.0	19.6	9 8	1 9.27	+ 10 34.7	2.040	2.926	11.3	20.5
9 18	1 2.07	+ 2 30.1	1.590	2.557	7.9	19.4	9 18	1 2.77	+ 10 32.9	1.980	2.929	7.9	20.3
9 28	0 54.40	+ 1 52.0	1.582	2.576	3.5	19.2	9 28	0 54.80	+ 10 20.2	1.945	2.932	4.2	20.1
10 8	0 46.17	+ 1 14.2	1.600	2.597	2.0	19.1	10 8	0 46.14	+ 9 59.5	1.938	2.935	1.6	19.9
10 18	0 38.41	+ 0 42.4	1.645	2.618	6.0	19.4	10 18	0 37.69	+ 9 34.4	1.959	2.938	4.5	20.1
10 28	0 32.03	+ 0 21.5	1.717	2.639	10.0	19.7	10 28	0 30.33	+ 9 9.8	2.009	2.941	8.1	20.3
11 7	0 27.68	+ 0 14.4	1.811	2.661	13.4	20.0	11 7	0 24.74	+ 8 50.2	2.084	2.944	11.4	20.5
<b>473442</b>	2015 <i>XE</i> <sub>2</sub>	10	6.1 273°70	4°6/30.9 18			<b>111950</b>	2002 <i>GM</i> <sub>57</sub>	10	6.1 332°05	5°4/12.1 18 R		
8 29	1 10.94	- 7 52.5	2.366	3.209	11.6	20.8	8 29	1 6.55	+ 23 36.4	1.854	2.616	17.3	18.6
9 8	1 6.82	- 8 40.0	2.290	3.203	9.0	20.6	9 8	1 4.24	+ 23 28.6	1.759	2.605	14.7	18.4
9 18	1 0.98	- 9 28.6	2.239	3.198	6.4	20.5	9 18	0 59.72	+ 22 55.2	1.682	2.595	11.5	18.2
9 28	0 53.91	- 10 13.1	2.214	3.192	4.7	20.3	9 28	0 53.51	+ 21 55.2	1.627	2.585	8.2	18.0
10 8	0 46.29	- 10 48.1	2.217	3.187	5.2	20.4	10 8	0 46.44	+ 20 31.0	1.597	2.575	5.7	17.8
10 18	0 38.86	- 11 9.3	2.248	3.181	7.5	20.5	10 18	0 39.51	+ 18 48.6	1.593	2.567	6.0	17.8
10 28	0 32.38	- 11 14.1	2.305	3.176	10.2	20.7	10 28	0 33.73	+ 16 57.7	1.616	2.558	8.9	18.0
11 7	0 27.41	- 11 1.7	2.386	3.170	12.6	20.8	11 7	0 29.91	+ 15 8.8	1.665	2.551	12.4	18.2
<b>141819</b>	2002 <i>NA</i> <sub>49</sub>	10	6.1 48°82	6°6/ 1.3 18			<b>182250</b>	2001 <i>FZ</i> <sub>81</sub>	10	6.1 243°57	3°2/ 8.7 18		
8 29	1 13.91	- 5 39.4	1.236	2.108	18.2	19.3	8 29	1 15.90	+ 15 14.0	1.801	2.590	16.8	21.2
9 8	1 10.30	- 6 55.1	1.191	2.120	14.1	19.1	9 8	1 11.59	+ 15 18.3	1.702	2.576	13.7	21.0
9 18	1 3.79	- 8 15.1	1.165	2.133	9.8	18.9	9 18	1 4.74	+ 15 3.9	1.622	2.561	10.1	20.7
9 28	0 55.26	- 9 28.6	1.161	2.146	6.8	18.8	9 28	0 55.86	+ 14 30.6	1.566	2.546	6.1	20.5
10 8	0 45.99	- 10 25.0	1.182	2.159	7.5	18.9	10 8	0 45.87	+ 13 40.9	1.536	2.530	3.2	20.3
10 18	0 37.35	- 10 56.6	1.227	2.173	11.0	19.1	10 18	0 35.90	+ 12 40.1	1.535	2.513	5.5	20.4
10 28	0 30.58	- 11 0.1	1.295	2.187	14.9	19.4	10 28	0 27.17	+ 11 36.2	1.560	2.496	9.7	20.6
11 7	0 26.45	- 10 36.4	1.381	2.202	18.3	19.7	11 7	0 20.63	+ 10 37.3	1.610	2.478	13.8	20.8
<b>358306</b>	2006 <i>UA</i> <sub>183</sub>	10	6.1 355°10	4°6/ 9.5 18			<b>113107</b>	2002 <i>RM</i> <sub>77</sub>	10	6.1 351°95	0°7/ 6.7 18		
8 29	1 12.07	+ 15 55.3	1.541	2.346	18.4	20.3	8 29	1 7.35	+ 9 30.1	1.388	2.233	18.1	19.1
9 8	1 8.86	+ 16 35.3	1.461	2.342	15.2	20.1	9 8	1 5.30	+ 9 12.5	1.313	2.226	14.3	18.8
9 18	1 2.97	+ 16 56.7	1.400	2.339	11.4	19.9	9 18	1 0.64	+ 8 35.9	1.257	2.220	9.8	18.6
9 28	0 55.02	+ 16 57.8	1.361	2.336	7.4	19.6	9 28	0 53.98	+ 7 43.2	1.223	2.216	4.7	18.3
10 8	0 46.00	+ 16 40.2	1.346	2.335	4.7	19.5	10 8	0 46.34	+ 6 40.9	1.213	2.212	1.0	18.0
10 18	0 37.17	+ 16 8.2	1.357	2.334	6.3	19.6	10 18	0 38.94	+ 5 37.4	1.229	2.210	6.1	18.3
10 28	0 29.78	+ 15 28.8	1.393	2.334	10.1	19.8	10 28	0 33.01	+ 4 41.6	1.269	2.208	11.1	18.6
11 7	0 24.78	+ 14 50.4	1.452	2.335	14.0	20.0	11 7	0 29.42	+ 4 0.8	1.331	2.208	15.4	18.9
<b>483905</b>	2006 <i>AQ</i> <sub>67</sub>	10	6.1 67°70	7°9/15.8 17			<b>12150</b>	De Ruyter	10	6.1 230°90	1°5/ 7.6 18		
8 29	1 12.59	+ 31 28.6	2.351	3.030	16.1	21.3	8 29	1 13.66	+ 10 41.8	2.318	3.112	13.3	17.5
9 8	1 8.53	+ 32 11.1	2.263	3.034	14.2	21.2	9 8	1 9.08	+ 10 49.5	2.227	3.109	10.6	17.3
9 18	1 2.38	+ 32 32.0	2.193	3.038	12.1	21.0	9 18	1 2.61	+ 10 45.8	2.158	3.105	7.4	17.1
9 28	0 54.64	+ 32 28.4	2.144	3.043	9.9	20.9	9 28	0 54.73	+ 10 31.7	2.115	3.101	4.0	16.8
10 8	0 46.12	+ 31 59.8	2.119	3.047	8.3	20.8	10 8	0 46.17	+ 10 9.7	2.100	3.097	1.5	16.7
10 18	0 37.75	+ 31 8.4	2.119	3.052	7.9	20.8	10 18	0 37.74	+ 9 43.3	2.115	3.093	4.3	16.9
10 28	0 30.48	+ 29 59.5	2.146	3.056	8.9	20.9	10 28	0 30.28	+ 9 17.1	2.158	3.089	7.7	17.1
11 7	0 25.05	+ 28 41.0	2.198	3.060	10.8	21.0	11 7	0 24.45	+ 8 55.4	2.227	3.084	10.9	17.3
<b>477534</b>	2010 <i>EL</i> <sub>106</sub>	10	6.1 144°12	1°5/ 4.6 18			<b>187835</b>	1999 <i>VH</i> <sub>134</sub>	10	6.1 56°23	2°5/ 8.9 18		
8 29	1 17.53	+ 1 22.6	2.296	3.113	12.8	21.4	8 29	1 9.43	+ 15 53.0	2.051	2.840	15.0	19.6
9 8	1 11.82	+ 1 6.0	2.223	3.124	9.8	21.2	9 8	1 5.94	+ 15 33.2	1.977	2.851	12.1	19.4
9 18	1 4.25	+ 0 43.1	2.173	3.134	6.5	21.1	9 18	1 0.53	+ 14 55.4	1.923	2.863	8.7	19.2
9 28	0 55.38	+ 0 17.4	2.151	3.144	3.0	20.9	9 28	0 53.76	+ 14 1.4	1.895	2.875	5.1	19.0
10 8	0 45.97	- 0 7.1	2.159	3.153	2.0	20.8	10 8	0 46.42	+ 12 55.4	1.893	2.887	2.5	18.9
10 18	0 36.86	- 0 26.4	2.196	3.162	5.3	21.0	10 18	0 39.35	+ 11 43.2	1.920	2.899	4.5	19.0
10 28	0 28.86	- 0 37.2	2.262	3.170	8.6	21.3	10 28	0 33.40	+ 10 31.8	1.974	2.911	7.9	19.3
11 7	0 22.57	- 0 37.2	2.353	3.178	11.5	21.5	11 7	0 29.17	+ 9 27.8	2.054	2.924	11.1	19.5
<b>392217</b>	2009 <i>UJ</i> <sub>45</sub>	10	6.1 11°77	2°0/ 2.4 16			<b>271992</b>	2005 <i>CV</i> <sub>27</sub>	10	6.1 291°58	4°4/10.2 17		
8 29	1 4.77	- 4 20.3	4.317	5.146	7.0	21.1	8 29	1 14.21	+ 18 37.0	2.393	3.148	14.0	20.7
9 8	1 1.29	- 4 43.7	4.238	5.146	5.4	20.9	9 8	1 9.75	+ 19 14.8	2.281	3.127	11.8	20.5
9 18	0 56.95	- 5 8.3	4.185	5.146	3.6	20.8	9 18	1 3.25	+ 19 38.9	2.190	3.106	9.1	20.3
9 28	0 52.00	- 5 32.0	4.160	5.146	2.2	20.7	9 28	0 55.12	+ 19 47.8	2.124	3.085	6.4	20.1
10 8	0 46.79	- 5 52.6	4.165	5.147	2.3	20.7	10 8	0 46.06	+ 19 41.5	2.084	3.063	4.5	19.9
10 18	0 41.67	- 6 7.9	4.200	5.147	3.8	20.8	10 18	0 36.93	+ 19 21.9	2.074	3.042	5.3	19.9
10 28	0 37.02	- 6 16.2	4.264	5.147	5.6	21.0	10 28	0 28.65	+ 18 53.3	2.091	3.021	8.0	20.1
11 7	0 33.14	- 6 16.6	4.353	5.147	7.2	21.1	11 7	0 22.02	+ 18 21.2	2.134	3.000	11.0	20.2
<b>513498</b>	2009 <i>HH</i> <sub>84</sub>	10	6.1 179°23	0°8/ 7.1 18			<b>340149</b>	2005 <i>YL</i> <sub>63</sub>	10	6.1 307°15	4°3/ 9.5 18		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>164349</b>	2005 $CO_{51}$	10	6.1 166°17'	1°3'/ 4.9	18		<b>392211</b>	2009 $TG_{10}$	10	6.1 115°72'	6°3'/13.7	17	R
8 29	1 13.22	+ 3 47.7	1.953	2.782	14.2	20.5	8 29	1 26.65	+32 47.9	1.780	2.453	20.8	21.8
9 8	1 8.96	+ 3 17.0	1.876	2.783	11.0	20.3	9 8	1 19.39	+31 29.3	1.705	2.486	17.8	21.7
9 18	1 2.61	+ 2 36.2	1.821	2.785	7.3	20.1	9 18	1 9.42	+29 32.5	1.646	2.518	14.1	21.5
9 28	0 54.76	+ 1 49.3	1.792	2.786	3.2	19.8	9 28	0 57.72	+26 57.2	1.613	2.548	10.2	21.3
10 8	0 46.22	+ 1 1.7	1.791	2.787	1.9	19.7	10 8	0 45.61	+23 49.9	1.608	2.576	6.9	21.2
10 18	0 37.93	+ 0 19.2	1.818	2.788	5.8	20.0	10 18	0 34.41	+20 23.9	1.636	2.603	6.6	21.2
10 28	0 30.80	+ 0 13.1	1.872	2.788	9.6	20.2	10 28	0 25.24	+16 56.4	1.697	2.628	9.4	21.5
11 7	0 25.53	+ 0 31.6	1.950	2.789	13.0	20.4	11 7	0 18.75	+13 43.5	1.788	2.652	12.8	21.7
<b>225811</b>	2001 $VF_{113}$	10	6.1 312°77'	2°7'/ 8.2	18		<b>516957</b>	2012 $DS_{20}$	10	6.1 87°02'	2°9'/ 9.2	18	
8 29	1 11.38	+13 0.3	1.464	2.286	18.5	20.2	8 29	1 12.51	+15 34.2	2.311	3.087	13.9	21.0
9 8	1 8.56	+13 7.8	1.374	2.270	15.0	19.9	9 8	1 8.18	+15 45.9	2.228	3.093	11.3	20.8
9 18	1 2.97	+12 55.6	1.303	2.255	10.8	19.6	9 18	1 2.00	+15 43.1	2.166	3.099	8.3	20.6
9 28	0 55.15	+12 23.7	1.254	2.240	6.1	19.3	9 28	0 54.47	+15 26.3	2.130	3.105	5.1	20.4
10 8	0 46.09	+11 35.7	1.229	2.225	2.7	19.1	10 8	0 46.33	+14 57.6	2.121	3.111	3.0	20.3
10 18	0 37.10	+10 38.2	1.230	2.211	6.0	19.2	10 18	0 38.37	+14 20.7	2.140	3.117	4.4	20.4
10 28	0 29.52	+ 9 30.1	1.255	2.197	10.9	19.5	10 28	0 31.41	+13 40.6	2.188	3.122	7.4	20.6
11 7	0 24.42	+ 8 50.4	1.303	2.184	15.5	19.7	11 7	0 26.09	+13 2.7	2.262	3.128	10.4	20.8
<b>288290</b>	2004 $AG_{21}$	10	6.1 72°77'	3°5'/ 3.4	17		<b>71616</b>	2000 $EG_{28}$	10	6.1 285°08'	5°2'/30.1	18	
8 29	1 16.66	+ 0 13.7	1.396	2.247	17.7	20.3	8 29	1 10.35	- 9 35.3	2.328	3.174	11.6	19.4
9 8	1 12.02	- 0 41.5	1.350	2.270	13.5	20.1	9 8	1 6.42	-10 33.8	2.258	3.170	9.1	19.2
9 18	1 4.74	- 1 45.8	1.325	2.293	8.8	19.9	9 18	1 0.77	-11 32.5	2.211	3.167	6.7	19.0
9 28	0 55.68	- 2 51.5	1.324	2.317	4.5	19.7	9 28	0 53.89	-12 25.5	2.191	3.164	5.3	18.9
10 8	0 46.04	- 3 49.9	1.349	2.340	4.2	19.8	10 8	0 46.47	-13 7.0	2.199	3.160	5.9	19.0
10 18	0 37.07	- 4 33.5	1.401	2.363	8.2	20.1	10 18	0 39.26	-13 32.8	2.234	3.157	8.1	19.1
10 28	0 29.86	- 4 57.5	1.477	2.386	12.3	20.4	10 28	0 33.01	-13 40.0	2.295	3.153	10.7	19.3
11 7	0 25.13	- 5 0.3	1.574	2.408	15.8	20.7	11 7	0 28.28	-13 28.4	2.378	3.150	13.0	19.4
<b>306644</b>	2000 $SM_{56}$	10	6.1 24°61'	1°0'/ 6.9	18		<b>381838</b>	2009 $WG_{79}$	10	6.1 238°42'	2°1'/ 4.3	18	
8 29	1 12.35	+ 9 4.0	1.788	2.608	15.7	20.1	8 29	1 14.86	+ 2 15.7	1.826	2.659	14.9	21.4
9 8	1 8.49	+ 9 4.4	1.714	2.613	12.4	19.9	9 8	1 10.53	+ 1 39.1	1.739	2.649	11.6	21.1
9 18	1 2.41	+ 8 51.2	1.661	2.618	8.5	19.7	9 18	1 3.87	+ 0 52.1	1.674	2.638	7.7	20.9
9 28	0 54.69	+ 8 26.6	1.633	2.623	4.2	19.4	9 28	0 55.43	- 0 0.8	1.634	2.627	3.6	20.6
10 8	0 46.25	+ 7 54.6	1.631	2.630	1.1	19.2	10 8	0 46.11	- 0 53.3	1.621	2.616	2.7	20.5
10 18	0 38.08	+ 7 20.2	1.657	2.636	5.1	19.5	10 18	0 36.94	- 1 38.7	1.637	2.604	6.7	20.8
10 28	0 31.18	+ 6 49.4	1.709	2.643	9.2	19.8	10 28	0 28.98	- 2 11.3	1.679	2.591	10.8	21.0
11 7	0 26.28	+ 6 27.2	1.786	2.650	12.8	20.0	11 7	0 23.05	- 2 27.2	1.744	2.578	14.5	21.2
<b>293930</b>	2007 $TQ_4$	10	6.1 27°42'	4°6'/ 3.5	18		<b>206437</b>	2003 $SW_{198}$	10	6.1 323°77'	5°2'/ 9.4	18	
8 29	1 18.96	- 5 45.2	1.341	2.199	17.9	19.5	8 29	1 14.91	+15 31.4	1.518	2.321	18.8	19.8
9 8	1 14.04	- 5 48.3	1.289	2.210	13.8	19.3	9 8	1 11.42	+16 29.9	1.424	2.303	15.6	19.5
9 18	1 6.24	- 5 52.3	1.256	2.223	9.4	19.1	9 18	1 5.01	+17 12.4	1.349	2.286	11.9	19.3
9 28	0 56.42	- 5 51.3	1.247	2.236	5.5	18.9	9 28	0 56.17	+17 36.0	1.296	2.270	7.9	19.0
10 8	0 45.87	- 5 39.6	1.262	2.250	5.2	18.9	10 8	0 45.92	+17 40.2	1.267	2.254	5.3	18.8
10 18	0 35.96	- 5 13.7	1.304	2.265	8.8	19.1	10 18	0 35.59	+17 27.4	1.264	2.239	6.9	18.9
10 28	0 27.95	- 4 32.1	1.370	2.281	12.9	19.4	10 28	0 26.67	+17 3.7	1.285	2.225	11.0	19.1
11 7	0 22.61	- 3 35.4	1.457	2.297	16.5	19.7	11 7	0 20.31	+16 37.4	1.329	2.212	15.1	19.3
<b>280061</b>	2002 $CL_{96}$	10	6.1 189°63'	3°4'/ 3.1	17		<b>436491</b>	2011 $EF_{40}$	10	6.1 197°06'	0°0'/ 5.9	17	
8 29	1 14.68	+ 0 50.5	1.577	2.423	16.2	20.9	8 29	1 16.74	+ 6 47.3	1.929	2.743	14.9	21.9
9 8	1 10.58	- 0 14.4	1.505	2.423	12.5	20.7	9 8	1 11.82	+ 6 33.2	1.843	2.740	11.7	21.7
9 18	1 3.96	- 1 31.0	1.454	2.422	8.3	20.4	9 18	1 4.63	+ 6 7.2	1.780	2.738	7.9	21.5
9 28	0 55.44	- 2 52.0	1.428	2.421	4.3	20.2	9 28	0 55.76	+ 5 31.9	1.742	2.734	3.6	21.2
10 8	0 46.07	- 4 8.7	1.429	2.419	4.2	20.2	10 8	0 46.07	+ 4 51.8	1.732	2.730	0.9	21.0
10 18	0 37.01	- 5 12.2	1.457	2.417	8.2	20.4	10 18	0 36.57	+ 4 12.3	1.751	2.726	5.3	21.3
10 28	0 29.41	- 5 56.0	1.510	2.414	12.4	20.6	10 28	0 28.30	+ 3 39.1	1.797	2.721	9.5	21.6
11 7	0 24.09	- 6 16.8	1.585	2.411	16.1	20.9	11 7	0 22.02	+ 3 16.7	1.868	2.716	13.1	21.8
<b>114517</b>	2003 $BF_{10}$	10	6.1 196°49'	0°4'/ 5.7	18		<b>261830</b>	2006 $DD_{14}$	10	6.1 268°04'	0°5'/ 5.6	17	
8 29	1 14.09	+ 7 13.0	2.004	2.820	14.4	21.1	8 29	1 13.38	+ 4 19.8	2.450	3.264	12.1	20.6
9 8	1 9.65	+ 6 36.8	1.919	2.817	11.3	20.9	9 8	1 8.81	+ 4 14.2	2.351	3.249	9.5	20.4
9 18	1 3.11	+ 5 47.3	1.855	2.814	7.5	20.6	9 18	1 2.44	+ 4 1.0	2.276	3.235	6.3	20.2
9 28	0 55.01	+ 4 48.0	1.818	2.811	3.4	20.4	9 28	0 54.72	+ 3 42.5	2.227	3.220	2.9	20.0
10 8	0 46.18	+ 3 44.2	1.809	2.807	1.1	20.2	10 8	0 46.32	+ 3 22.0	2.207	3.205	1.0	19.8
10 18	0 37.53	+ 2 42.4	1.828	2.802	5.3	20.5	10 18	0 37.98	+ 3 3.0	2.217	3.190	4.6	20.0
10 28	0 30.02	+ 1 48.9	1.876	2.797	9.3	20.7	10 28	0 30.50	+ 2 49.2	2.255	3.175	8.1	20.2
11 7	0 24.37	+ 1 8.7	1.948	2.791	12.8	20.9	11 7	0 24.53	+ 2 43.8	2.320	3.160	11.1	20.4
<b>514521</b>	2016 $WX_{48}$	10	6.1 5°26'	2°0'/ 4.4	18		<b>481624</b>	2007 $UD_{93}$	10	6.1 303°78'	0°7'/ 5.5	18	
8 29	1 10.75	+ 3 5.7	1.577	2.425	16.1	21.1	8 29	1 12.74	+ 4 59.4	1.747	2.580	15.5	21.7
9 8	1 7.52	+ 2 27.1	1.507	2.425	12.4	20.9	9 8	1 9.01	+ 4 44.4	1.660	2.568	12.1	21.5
9 18	1 1.89	+ 1 36.5	1.458	2.426	8.2	20.6	9 18	1 2.94	+ 4 17.8	1.594	2.557	8.1	21.2
9 28	0 54.49	+ 0 39.2	1.432	2.427	3.7	20.4	9 28	0 55.05	+ 3 42.9	1.552	2.546	3.6	20.9
10 8	0 46.30	- 0 17.4	1.433	2.428	2.7	20.3	10 8	0 46.24	+ 3 4.6	1.537	2.535	1.4	20.7
10 18	0 38.41	- 1 6.1	1.460	2.430	6.9	20.6	10 18	0 37.56	+ 2 29.0	1.550	2.524	6.0	21.0
10 28	0 31.90	- 1 40.4	1.512	2.432	11.2	20.8	10 28	0 30.12	+ 2 1.9	1.588	2.514	10.4	21.3
11 7	0 27.53	- 1 56.7	1.586	2.435	15.0	21.1	11 7	0 24.74	+ 1 47.8	1.650	2.504	14.2	21.5
<b>393123</b>	2013 $BS_{33}$	10	6.1 42°52'	2°7'/ 3.8	18		<b>386796</b>	2010 $EW_{111}$	10	6.1 118°03'	0°2'/ 5.9	18	
8 29	1 13.05	+ 0 3.7	1.753	2.597	14.9	20.7	8 29	1 14.2					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>237959</b>	2002 RA <sub>111</sub>	10	6.1	43°58	1.2°/ 6.9	18	<b>211183</b>	2002 JF <sub>113</sub>	10	6.1	64°07	4.4°/ 3.5	18
8 29	1 19.26	+ 7 42.9	1.406	2.234	18.8	19.1	8 29	1 21.34	- 3 5.8	1.235	2.091	19.2	19.2
9 8	1 14.10	+ 8 7.7	1.358	2.260	14.7	19.0	9 8	1 15.90	- 3 37.1	1.194	2.116	14.7	19.0
9 18	1 6.19	+ 8 18.5	1.329	2.287	10.0	18.8	9 18	1 7.45	- 4 13.4	1.173	2.140	9.8	18.8
9 28	0 56.40	+ 8 17.2	1.324	2.315	4.9	18.5	9 28	0 56.99	- 4 47.2	1.175	2.165	5.4	18.7
10 8	0 45.98	+ 8 7.6	1.344	2.343	1.3	18.4	10 8	0 45.93	- 5 10.5	1.201	2.190	5.1	18.7
10 18	0 36.23	+ 7 54.9	1.392	2.371	5.8	18.8	10 18	0 35.73	- 5 17.8	1.254	2.215	9.0	19.0
10 28	0 28.34	+ 7 44.7	1.465	2.400	10.3	19.1	10 28	0 27.66	- 5 6.1	1.330	2.240	13.3	19.3
11 7	0 23.03	+ 7 41.8	1.561	2.429	14.1	19.4	11 7	0 22.42	- 4 35.6	1.427	2.264	17.0	19.6
<b>18632</b>	Danielsson	10	6.1	19°88	2.1°/ 4.1	18	<b>57249</b>	2001 QW <sub>93</sub>	10	6.1	72°89	5.7°/11.4	18
8 29	1 9.73	+ 2 24.0	1.735	2.581	15.0	18.5	8 29	1 17.21	+21 12.2	1.991	2.741	16.7	18.2
9 8	1 6.47	+ 1 41.8	1.668	2.585	11.5	18.3	9 8	1 12.22	+21 59.2	1.917	2.754	14.0	18.0
9 18	1 1.07	+ 0 49.2	1.622	2.590	7.6	18.1	9 18	1 4.93	+22 27.5	1.861	2.768	11.0	17.8
9 28	0 54.11	- 0 8.4	1.601	2.595	3.5	17.8	9 28	0 55.93	+22 35.3	1.829	2.782	7.9	17.7
10 8	0 46.49	- 1 4.2	1.606	2.601	2.8	17.8	10 8	0 46.13	+22 22.9	1.823	2.795	5.9	17.6
10 18	0 39.17	- 1 51.7	1.639	2.607	6.6	18.1	10 18	0 36.60	+21 53.6	1.845	2.809	6.3	17.7
10 28	0 33.10	- 2 25.2	1.697	2.613	10.5	18.3	10 28	0 28.37	+21 13.1	1.893	2.823	8.7	17.8
11 7	0 28.96	- 2 41.5	1.779	2.620	13.9	18.5	11 7	0 22.21	+20 28.7	1.967	2.836	11.6	18.0
<b>64466</b>	2001 VV <sub>40</sub>	10	6.1	303°75	2.9°/ 3.7	18	<b>109017</b>	2001 QT <sub>5</sub>	10	6.1	83°71	3.0°/ 8.5	18
8 29	1 11.93	+ 1 11.3	1.515	2.368	16.4	19.1	8 29	1 16.73	+13 44.5	1.566	2.370	18.2	20.2
9 8	1 8.73	+ 0 27.7	1.434	2.355	12.8	18.8	9 8	1 12.26	+13 58.0	1.497	2.381	14.7	20.0
9 18	1 2.92	- 0 27.6	1.373	2.342	8.5	18.5	9 18	1 5.14	+13 52.8	1.446	2.391	10.5	19.8
9 28	0 55.09	- 1 28.8	1.336	2.330	4.2	18.2	9 28	0 56.06	+13 29.4	1.419	2.402	6.1	19.5
10 8	0 46.25	- 2 27.7	1.325	2.318	3.7	18.2	10 8	0 46.11	+12 51.3	1.418	2.412	3.0	19.4
10 18	0 37.57	- 3 16.2	1.340	2.306	7.9	18.4	10 18	0 36.54	+12 4.5	1.444	2.423	5.6	19.6
10 28	0 30.29	- 3 47.4	1.379	2.294	12.5	18.6	10 28	0 28.55	+11 16.8	1.495	2.433	9.9	19.8
11 7	0 25.31	- 3 57.7	1.440	2.283	16.5	18.9	11 7	0 22.97	+10 35.5	1.571	2.443	13.8	20.1
<b>100020</b>	1990 QH <sub>4</sub>	10	6.1	17°09	2.5°/ 7.5	18	<b>193513</b>	2000 YG <sub>53</sub>	10	6.1	300°32	6.8°/30.0	18
8 29	1 13.10	+ 9 27.7	0.947	1.811	23.1	18.3	8 29	1 12.23	- 8 40.7	1.619	2.480	15.1	19.6
9 8	1 10.74	+10 3.8	0.895	1.816	18.4	18.0	9 8	1 8.79	- 9 53.6	1.544	2.465	12.0	19.3
9 18	1 4.75	+10 19.5	0.858	1.823	12.9	17.7	9 18	1 2.87	-11 9.5	1.490	2.451	8.8	19.1
9 28	0 56.01	+10 15.6	0.841	1.832	6.8	17.4	9 28	0 55.06	-12 19.5	1.461	2.437	6.9	19.0
10 8	0 46.06	+ 9 56.7	0.844	1.842	2.5	17.2	10 8	0 46.33	-13 14.3	1.458	2.423	7.8	19.0
10 18	0 36.70	+ 9 30.3	0.871	1.854	7.3	17.6	10 18	0 37.80	-13 46.5	1.479	2.410	10.8	19.1
10 28	0 29.62	+ 9 6.0	0.918	1.867	13.0	17.9	10 28	0 30.61	-13 52.0	1.524	2.397	14.3	19.3
11 7	0 25.85	+ 8 51.7	0.985	1.881	17.9	18.3	11 7	0 25.61	-13 30.6	1.589	2.383	17.5	19.5
<b>218187</b>	2002 TD <sub>63</sub>	10	6.1	21°74	2.4°/ 7.8	18	<b>304352</b>	2006 SD <sub>296</sub>	10	6.1	279°22	1°3/ 7.3	18
8 29	1 12.98	+11 20.3	1.174	2.016	20.9	19.5	8 29	1 12.72	+10 20.8	1.974	2.782	14.8	21.3
9 8	1 10.07	+11 35.4	1.113	2.022	16.7	19.3	9 8	1 8.74	+10 16.9	1.885	2.776	11.8	21.1
9 18	1 4.03	+11 29.5	1.070	2.028	11.7	19.0	9 18	1 2.62	+ 9 59.2	1.818	2.770	8.2	20.9
9 28	0 55.62	+11 4.1	1.047	2.036	6.3	18.7	9 28	0 54.90	+ 9 29.3	1.775	2.764	4.2	20.6
10 8	0 46.15	+10 24.2	1.047	2.045	2.5	18.5	10 8	0 46.38	+ 8 50.8	1.760	2.758	1.3	20.4
10 18	0 37.14	+ 9 37.4	1.072	2.054	6.5	18.8	10 18	0 38.00	+ 8 8.6	1.773	2.752	4.8	20.7
10 28	0 30.04	+ 8 53.4	1.120	2.065	11.7	19.1	10 28	0 30.73	+ 7 28.7	1.813	2.746	8.8	20.9
11 7	0 25.80	+ 8 20.3	1.190	2.076	16.2	19.4	11 7	0 25.31	+ 6 56.4	1.878	2.740	12.4	21.1
<b>19504</b>	Vladalekseev	10	6.1	184°37	3.8°/ 1.5	18	<b>402474</b>	2006 BS <sub>224</sub>	10	6.1	285°73	6.8°/26.8	18
8 29	1 9.61	- 3 43.7	2.289	3.132	11.9	18.1	8 29	1 7.77	-11 50.8	2.227	3.081	11.8	20.3
9 8	1 5.88	- 4 51.7	2.216	3.132	9.2	17.9	9 8	1 4.63	-13 42.0	2.159	3.072	9.5	20.1
9 18	1 0.45	- 6 4.5	2.168	3.132	6.3	17.7	9 18	0 59.72	-15 33.9	2.116	3.064	7.5	20.0
9 28	0 53.79	- 7 16.4	2.146	3.131	4.1	17.6	9 28	0 53.52	-17 18.2	2.099	3.055	6.8	19.9
10 8	0 46.60	- 8 21.2	2.153	3.131	4.5	17.6	10 8	0 46.71	-18 46.9	2.111	3.047	7.9	20.0
10 18	0 39.61	- 9 13.2	2.188	3.130	7.1	17.8	10 18	0 40.05	-19 53.6	2.148	3.039	10.0	20.1
10 28	0 33.57	- 9 48.5	2.250	3.130	10.0	18.0	10 28	0 34.33	-20 34.9	2.210	3.030	12.4	20.3
11 7	0 29.03	-10 5.3	2.335	3.129	12.6	18.2	11 7	0 30.16	-20 50.4	2.292	3.022	14.6	20.4
<b>137753</b>	1999 XP <sub>161</sub>	10	6.1	229°04	3.0°/ 3.6	18	<b>447695</b>	2007 DO <sub>6</sub>	10	6.1	262°25	0.5°/ 6.7	17
8 29	1 16.68	- 0 25.5	1.760	2.598	15.2	20.1	8 29	1 9.79	+ 9 44.7	2.259	3.067	13.2	22.2
9 8	1 12.01	- 1 3.0	1.677	2.589	11.8	19.9	9 8	1 6.19	+ 9 16.9	2.166	3.059	10.4	22.0
9 18	1 4.91	- 1 48.7	1.615	2.580	7.9	19.7	9 18	1 0.78	+ 8 35.8	2.096	3.050	7.1	21.8
9 28	0 55.96	- 2 37.4	1.579	2.571	4.0	19.4	9 28	0 54.02	+ 7 43.8	2.051	3.042	3.5	21.5
10 8	0 46.09	- 3 22.2	1.570	2.561	3.7	19.4	10 8	0 46.60	+ 6 45.1	2.035	3.033	0.7	21.3
10 18	0 36.41	- 3 56.8	1.589	2.551	7.4	19.6	10 18	0 39.30	+ 5 45.2	2.047	3.025	4.4	21.5
10 28	0 28.04	- 4 16.0	1.634	2.540	11.5	19.8	10 28	0 32.92	+ 4 49.7	2.088	3.016	8.1	21.8
11 7	0 21.81	- 4 17.1	1.702	2.529	15.1	20.0	11 7	0 28.11	+ 4 3.9	2.154	3.007	11.4	22.0
<b>165016</b>	2000 CV <sub>98</sub>	10	6.1	341°32	0.4°/ 6.4	18	<b>53469</b>	2000 AX <sub>8</sub>	10	6.1	351°90	0.0°/ 6.2	18
8 29	1 9.87	+ 8 15.3	1.508	2.346	17.2	19.8	8 29	1 5.10	+ 6 34.1	3.994	4.795	8.1	19.4
9 8	1 7.13	+ 8 1.3	1.428	2.338	13.6	19.5	9 8	1 1.72	+ 6 22.6	3.903	4.794	6.2	19.2
9 18	1 1.84	+ 7 30.9	1.368	2.331	9.3	19.2	9 18	0 57.36	+ 6 5.4	3.838	4.793	4.2	19.1
9 28	0 54.61	+ 6 47.1	1.331	2.324	4.4	18.9	9 28	0 52.34	+ 5 44.1	3.801	4.792	1.9	18.9
10 8	0 46.40	+ 5 55.6	1.319	2.318	0.9	18.7	10 8	0 47.00	+ 5 20.8	3.793	4.792	0.4	18.8
10 18	0 38.39	+ 5 3.6	1.333	2.312	6.0	19.0	10 18	0 41.75	+ 4 57.5	3.816	4.791	2.7	19.0
10 28	0 31.77	+ 4 18.9	1.372	2.308	10.8	19.3	10 28	0 36.98	+ 4 36.8	3.868	4.790	4.9	19.2
11 7	0 27.40	+ 3 47.8	1.434	2.304	15.0	19.5	11 7	0 33.04	+ 4 20.7	3.948	4.790	6.9	19.3
<b>469369</b>	2001 QO <sub>146</sub>	10	6.1	57°57	3.4°/ 3.5	16	<b>107997</b>	2001 FF <sub>137</sub>	10	6.1	69°17	7.9°/30.4	18
8 29	1 17.03	+ 1 57.3	1.256	2.110	19.0	21.2	8 29	1 17.92	-10 25.9				

EPHEMERIDES

10 6.1

10 6.2

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>185456</b>	2007 AT		10 6.1 213°19	1°3/ 4.7	18		<b>353140</b>	2009 HE <sub>5</sub>		10 6.1 75°82	2°5/ 3.8	18	
8 29	1 10.80	+ 3 46.4	2.239	3.065	12.7	21.1	8 29	1 12.83	+ 0 25.4	1.911	2.750	14.1	21.1
9 8	1 6.89	+ 3 10.0	2.157	3.063	9.8	20.9	9 8	1 8.66	- 0 12.2	1.844	2.757	10.8	20.9
9 18	1 1.19	+ 2 24.1	2.098	3.061	6.5	20.7	9 18	1 2.45	- 0 57.2	1.798	2.764	7.1	20.7
9 28	0 54.19	+ 1 32.7	2.065	3.059	2.9	20.5	9 28	0 54.78	- 1 44.7	1.779	2.772	3.5	20.5
10 8	0 46.58	+ 0 40.8	2.060	3.056	1.8	20.4	10 8	0 46.50	- 2 28.9	1.787	2.779	3.1	20.5
10 18	0 39.15	- 0 6.6	2.085	3.054	5.3	20.7	10 18	0 38.53	- 3 4.1	1.823	2.786	6.5	20.7
10 28	0 32.69	- 0 44.4	2.137	3.051	8.7	20.9	10 28	0 31.77	- 3 26.0	1.886	2.794	10.1	21.0
11 7	0 27.80	- 1 9.2	2.214	3.048	11.8	21.1	11 7	0 26.86	- 3 32.2	1.972	2.801	13.2	21.2
<b>170375</b>	2003 SU <sub>253</sub>		10 6.1 320°33	0°5/ 6.6	18		<b>381085</b>	2007 BJ <sub>48</sub>		10 6.1 206°00	0°7/ 5.5	18	
8 29	1 6.82	+10 12.8	1.459	2.299	17.6	20.0	8 29	1 15.59	+ 5 30.6	1.930	2.750	14.7	22.3
9 8	1 5.04	+ 9 40.5	1.364	2.274	14.1	19.7	9 8	1 10.96	+ 5 4.2	1.845	2.746	11.5	22.1
9 18	1 0.67	+ 8 46.4	1.287	2.250	9.7	19.3	9 18	1 4.12	+ 4 26.1	1.781	2.741	7.7	21.9
9 28	0 54.20	+ 7 33.2	1.234	2.226	4.7	19.0	9 28	0 55.61	+ 3 39.6	1.743	2.736	3.4	21.6
10 8	0 46.55	+ 6 7.4	1.205	2.203	0.9	18.7	10 8	0 46.30	+ 2 50.0	1.733	2.731	1.4	21.5
10 18	0 38.90	+ 4 38.4	1.201	2.181	6.4	19.0	10 18	0 37.17	+ 2 3.3	1.751	2.724	5.6	21.7
10 28	0 32.54	+ 3 17.1	1.222	2.160	11.6	19.2	10 28	0 29.23	+ 1 25.2	1.797	2.718	9.7	22.0
11 7	0 28.49	+ 2 12.8	1.265	2.139	16.3	19.4	11 7	0 23.23	+ 1 0.2	1.868	2.710	13.3	22.2
<b>332869</b>	2010 WN <sub>58</sub>		10 6.1 158°79	2°7/ 8.8	17		<b>107749</b>	2001 FS <sub>35</sub>		10 6.1 89°57	1°9/ 4.5	18	
8 29	1 15.57	+16 5.5	1.898	2.680	16.3	21.5	8 29	1 13.23	+ 4 58.7	1.473	2.316	17.3	19.7
9 8	1 10.97	+15 48.0	1.817	2.687	13.2	21.3	9 8	1 9.57	+ 4 1.2	1.409	2.325	13.3	19.5
9 18	1 4.10	+15 10.8	1.756	2.693	9.6	21.1	9 18	1 3.34	+ 2 48.4	1.366	2.333	8.8	19.2
9 28	0 55.56	+14 15.1	1.719	2.699	5.6	20.9	9 28	0 55.26	+ 1 26.6	1.347	2.342	3.9	19.0
10 8	0 46.27	+13 4.9	1.710	2.704	2.8	20.7	10 8	0 46.40	+ 0 4.8	1.355	2.351	2.6	18.9
10 18	0 37.26	+11 47.0	1.729	2.708	5.0	20.9	10 18	0 37.96	- 1 7.9	1.389	2.359	7.2	19.2
10 28	0 29.53	+10 29.3	1.777	2.711	8.8	21.1	10 28	0 31.07	- 2 3.6	1.448	2.368	11.7	19.5
11 7	0 23.85	+ 9 19.4	1.850	2.714	12.4	21.3	11 7	0 26.50	- 2 38.0	1.530	2.376	15.5	19.8
<b>46035</b>	2001 DM <sub>32</sub>		10 6.1 95°48	3°7/ 3.0	18		<b>476964</b>	2008 YK <sub>1</sub>		10 6.2 320°06	10°3/ 26.9	18	
8 29	1 14.03	+ 0 30.0	1.477	2.328	16.8	19.4	8 29	1 12.84	-17 4.8	1.516	2.378	15.9	19.9
9 8	1 10.12	- 0 38.9	1.418	2.339	12.9	19.2	9 8	1 9.47	-18 34.3	1.453	2.365	13.3	19.8
9 18	1 3.65	- 1 58.6	1.380	2.349	8.5	18.9	9 18	1 3.43	-19 58.4	1.411	2.352	11.1	19.6
9 28	0 55.36	- 3 21.2	1.367	2.359	4.5	18.7	9 28	0 55.37	-21 5.8	1.392	2.340	10.3	19.5
10 8	0 46.34	- 4 37.3	1.379	2.368	4.5	18.8	10 8	0 46.37	-21 46.3	1.396	2.328	11.5	19.6
10 18	0 37.76	- 5 38.2	1.418	2.378	8.4	19.0	10 18	0 37.69	-21 53.9	1.423	2.316	14.0	19.7
10 28	0 30.76	- 6 17.8	1.482	2.387	12.5	19.3	10 28	0 30.53	-21 26.8	1.471	2.305	16.9	19.8
11 7	0 26.09	- 6 33.7	1.568	2.397	16.1	19.5	11 7	0 25.76	-20 28.2	1.537	2.295	19.6	20.0
<b>36756</b>	2000 RG <sub>71</sub>		10 6.1 67°84	3°1/ 4.2	18		<b>437941</b>	2002 QZ <sub>134</sub>		10 6.2 94°21	3°6/ 2.6	18	
8 29	1 20.25	- 0 1.4	1.239	2.092	19.3	18.7	8 29	1 13.45	- 1 45.6	1.909	2.751	14.0	21.3
9 8	1 15.22	- 0 25.0	1.191	2.111	14.9	18.5	9 8	1 9.03	- 2 47.3	1.854	2.768	10.7	21.1
9 18	1 7.14	- 0 57.4	1.162	2.130	9.8	18.3	9 18	1 2.61	- 3 55.0	1.821	2.786	7.1	20.9
9 28	0 56.94	- 1 32.1	1.156	2.149	4.8	18.1	9 28	0 54.82	- 5 2.2	1.814	2.803	4.1	20.8
10 8	0 46.00	- 2 1.3	1.175	2.169	3.8	18.1	10 8	0 46.52	- 6 2.1	1.836	2.820	4.3	20.9
10 18	0 35.81	- 2 18.5	1.220	2.188	8.2	18.4	10 18	0 38.63	- 6 48.7	1.885	2.837	7.3	21.1
10 28	0 27.67	- 2 19.2	1.289	2.207	12.9	18.7	10 28	0 31.99	- 7 18.0	1.960	2.854	10.6	21.3
11 7	0 22.37	- 2 1.9	1.379	2.226	16.8	19.0	11 7	0 27.19	- 7 28.4	2.059	2.870	13.5	21.5
<b>515550</b>	2014 GZ <sub>57</sub>		10 6.1 179°82	1°0/ 7.1	18		<b>275916</b>	2001 TL <sub>173</sub>		10 6.2 264°92	3°7/ 9.1	18	
8 29	1 11.39	+11 1.3	1.991	2.799	14.8	21.7	8 29	1 15.06	+15 32.5	1.689	2.483	17.5	20.8
9 8	1 7.63	+10 35.6	1.908	2.799	11.7	21.5	9 8	1 11.09	+15 50.3	1.599	2.475	14.4	20.6
9 18	1 1.83	+ 9 54.3	1.846	2.799	8.1	21.2	9 18	1 4.53	+15 49.6	1.529	2.468	10.6	20.4
9 28	0 54.54	+ 9 0.0	1.810	2.799	4.0	21.0	9 28	0 55.92	+15 29.4	1.482	2.460	6.6	20.1
10 8	0 46.54	+ 7 57.4	1.801	2.799	1.0	20.8	10 8	0 46.24	+14 52.2	1.461	2.452	3.8	19.9
10 18	0 38.75	+ 6 52.6	1.820	2.799	4.7	21.0	10 18	0 36.67	+14 2.9	1.466	2.444	5.7	20.0
10 28	0 32.07	+ 5 52.3	1.868	2.799	8.7	21.3	10 28	0 28.44	+13 9.2	1.498	2.436	9.8	20.3
11 7	0 27.19	+ 5 2.4	1.940	2.798	12.2	21.5	11 7	0 22.49	+12 19.1	1.554	2.428	13.8	20.5
<b>377569</b>	2005 LW <sub>17</sub>		10 6.1 119°82	0°7/ 6.8	17		<b>451783</b>	2013 GW <sub>100</sub>		10 6.2 80°19	6°4/ 30.8	18	
8 29	1 14.60	+10 55.5	1.643	2.458	17.1	21.5	8 29	1 21.53	-16 0.4	2.318	3.141	12.5	21.1
9 8	1 10.41	+10 18.5	1.574	2.470	13.4	21.3	9 8	1 14.78	-16 23.6	2.267	3.159	10.0	20.9
9 18	1 3.80	+ 9 22.9	1.525	2.481	9.2	21.1	9 18	1 6.17	-16 40.3	2.240	3.178	7.8	20.8
9 28	0 55.44	+ 8 12.3	1.501	2.491	4.4	20.9	9 28	0 56.36	-16 45.4	2.240	3.196	6.4	20.8
10 8	0 46.35	+ 6 53.4	1.503	2.502	0.9	20.6	10 8	0 46.19	-16 34.9	2.269	3.214	6.8	20.8
10 18	0 37.64	+ 5 34.5	1.533	2.512	5.5	21.0	10 18	0 36.54	-16 7.0	2.325	3.232	8.6	21.0
10 28	0 30.38	+ 4 23.8	1.590	2.521	10.0	21.3	10 28	0 28.18	-15 21.7	2.409	3.250	10.8	21.1
11 7	0 25.33	+ 3 28.1	1.671	2.530	13.8	21.5	11 7	0 21.66	-14 21.0	2.517	3.268	12.9	21.3
<b>25738</b>	2000 AO <sub>198</sub>		10 6.1 57°35	10°7/ 16.9	18		<b>294856</b>	2008 CB <sub>192</sub>		10 6.2 249°38	3°4/ 8.7	18	
8 29	1 17.45	+32 16.3	1.410	2.130	23.6	17.4	8 29	1 16.00	+14 41.2	1.615	2.415	18.0	21.5
9 8	1 13.42	+33 14.9	1.358	2.156	20.7	17.3	9 8	1 11.96	+14 54.1	1.525	2.406	14.7	21.2
9 18	1 6.18	+33 39.4	1.319	2.182	17.5	17.1	9 18	1 5.19	+14 47.9	1.454	2.396	10.7	21.0
9 28	0 56.61	+33 24.5	1.298	2.208	14.2	17.0	9 28	0 56.26	+14 22.1	1.406	2.387	6.4	20.7
10 8	0 46.09	+32 30.2	1.297	2.235	11.6	16.9	10 8	0 46.17	+13 39.5	1.384	2.377	3.4	20.5
10 18	0 36.20	+31 2.3	1.320	2.262	10.7	17.0	10 18	0 36.18	+12 45.4	1.388	2.367	5.8	20.6
10 28	0 28.39	+29 12.6	1.366	2.289	12.0	17.1	10 28	0 27.59	+11 48.3	1.419	2.357	10.3	20.9
11 7	0 23.52	+27 15.5	1.436	2.316	14.4	17.3	11 7	0 21.40	+10 56.6	1.473	2.347	14.5	21.1
<b>312641</b>	2010 BF <sub>52</sub>		10 6.1 288°99	4°0/ 27.8	18 R		<b>179063</b>	2001 SG <sub>96</sub>		10 6.2 114°66	1°1/ 7.2	18	
8 29	1 4.06												



EPHEMERIDES

10 6.2

10 6.2

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>164043</b>	2003 <i>UM</i> <sub>278</sub>	10 6.2	11°29'	2.1°/ 4.4	18		<b>130894</b>	2000 <i>VC</i> <sub>28</sub>	10 6.2	306°34'	3.8°/ 2.9	18	
8 29	1 10.36	+ 3 21.3	1.491	2.342	16.7	20.1	8 29	1 10.74	- 0 22.2	1.522	2.379	16.1	19.4
9 8	1 7.38	+ 2 39.5	1.424	2.344	12.9	19.9	9 8	1 7.96	- 1 16.1	1.432	2.355	12.6	19.1
9 18	1 1.93	+ 1 44.7	1.377	2.346	8.5	19.6	9 18	1 2.58	- 2 21.8	1.362	2.332	8.5	18.8
9 28	0 54.66	+ 0 42.8	1.354	2.349	3.9	19.4	9 28	0 55.11	- 3 32.7	1.316	2.309	4.6	18.5
10 8	0 46.58	- 0 18.4	1.357	2.352	2.8	19.3	10 8	0 46.49	- 4 39.9	1.296	2.285	4.7	18.5
10 18	0 38.82	- 1 11.0	1.385	2.356	7.1	19.6	10 18	0 37.91	- 5 34.6	1.302	2.263	8.8	18.6
10 28	0 32.51	- 1 48.3	1.439	2.361	11.5	19.9	10 28	0 30.62	- 6 9.1	1.331	2.240	13.3	18.8
11 7	0 28.41	- 2 6.3	1.514	2.366	15.4	20.1	11 7	0 25.62	- 6 19.7	1.381	2.219	17.4	19.0
<b>27812</b>	1993 <i>OJ</i> <sub>8</sub>	10 6.2	86°03'	0.5°/ 6.6	18		<b>28503</b>	Angelazhang	10 6.2	62°03'	0.0°/ 6.1	18	
8 29	1 15.46	+ 9 34.6	1.593	2.413	17.3	18.3	8 29	1 16.80	+ 7 28.7	1.373	2.208	18.8	18.2
9 8	1 11.05	+ 9 7.9	1.532	2.431	13.5	18.1	9 8	1 12.38	+ 7 13.4	1.320	2.229	14.6	18.0
9 18	1 4.19	+ 8 24.6	1.492	2.449	9.1	17.9	9 18	1 5.21	+ 6 42.3	1.288	2.250	9.8	17.7
9 28	0 55.62	+ 7 28.3	1.476	2.467	4.3	17.7	9 28	0 56.12	+ 5 59.4	1.278	2.271	4.5	17.5
10 8	0 46.38	+ 6 25.2	1.486	2.485	0.9	17.5	10 8	0 46.33	+ 5 11.4	1.294	2.292	1.0	17.3
10 18	0 37.61	+ 5 22.9	1.524	2.503	5.6	17.9	10 18	0 37.15	+ 4 25.6	1.336	2.314	6.2	17.7
10 28	0 30.37	+ 4 28.9	1.589	2.520	10.0	18.2	10 28	0 29.76	+ 3 49.4	1.403	2.335	10.9	18.1
11 7	0 25.39	+ 3 48.7	1.677	2.537	13.7	18.4	11 7	0 24.90	+ 3 27.4	1.493	2.357	14.9	18.4
<b>481639</b>	2007 <i>VQ</i> <sub>85</sub>	10 6.2	3°76'	6.1°/ 12.3	16		<b>67858</b>	2000 <i>WX</i> <sub>20</sub>	10 6.2	123°94'	3.2°/ 3.2	18	
8 29	1 4.25	+23 51.4	1.347	2.140	21.2	20.3	8 29	1 13.95	- 0 30.1	1.852	2.692	14.4	19.1
9 8	1 3.19	+23 43.1	1.273	2.139	18.0	20.1	9 8	1 9.61	- 1 22.7	1.786	2.700	11.1	18.9
9 18	0 59.43	+23 1.3	1.215	2.139	14.1	19.9	9 18	1 3.14	- 2 22.8	1.742	2.708	7.3	18.7
9 28	0 53.61	+21 44.8	1.177	2.141	9.9	19.6	9 28	0 55.15	- 3 24.7	1.724	2.716	3.9	18.5
10 8	0 46.81	+19 57.9	1.161	2.143	6.6	19.5	10 8	0 46.54	- 4 21.3	1.734	2.723	3.8	18.5
10 18	0 40.32	+17 50.3	1.169	2.147	6.9	19.5	10 18	0 38.26	- 5 6.4	1.772	2.730	7.1	18.7
10 28	0 35.37	+15 36.2	1.203	2.153	10.4	19.7	10 28	0 31.24	- 5 35.3	1.836	2.737	10.7	19.0
11 7	0 32.85	+13 30.0	1.260	2.159	14.5	20.0	11 7	0 26.15	- 5 45.9	1.923	2.744	13.9	19.2
<b>121179</b>	1999 <i>LX</i> <sub>14</sub>	10 6.2	70°84'	5°3'/ 1.3	17		<b>168689</b>	2000 <i>GM</i> <sub>30</sub>	10 6.2	300°87'	0.1°/ 6.3	18	
8 29	1 13.20	- 4 14.7	1.558	2.416	15.8	19.8	8 29	1 10.89	+ 8 22.9	1.851	2.674	15.1	20.0
9 8	1 9.26	- 5 36.7	1.511	2.433	12.1	19.7	9 8	1 7.47	+ 7 55.6	1.766	2.668	11.9	19.8
9 18	1 2.96	- 7 3.7	1.484	2.450	8.3	19.5	9 18	1 1.88	+ 7 13.7	1.702	2.662	8.1	19.5
9 28	0 55.03	- 8 26.5	1.483	2.468	5.6	19.4	9 28	0 54.66	+ 6 20.2	1.663	2.656	3.8	19.3
10 8	0 46.53	- 9 36.2	1.508	2.485	6.2	19.4	10 8	0 46.64	+ 5 20.4	1.651	2.650	0.8	19.0
10 18	0 38.53	-10 25.6	1.559	2.502	9.3	19.7	10 18	0 38.79	+ 4 20.7	1.666	2.644	5.3	19.4
10 28	0 32.03	-10 50.7	1.635	2.520	12.8	19.9	10 28	0 32.09	+ 3 28.2	1.709	2.638	9.5	19.6
11 7	0 27.70	-10 51.3	1.731	2.537	15.8	20.2	11 7	0 27.29	+ 2 48.2	1.775	2.632	13.2	19.8
<b>381821</b>	2009 <i>VE</i> <sub>71</sub>	10 6.2	235°27'	1°0'/ 7.0	18		<b>82610</b>	2001 <i>OS</i> <sub>100</sub>	10 6.2	75°97'	1.7°/ 4.9	17	
8 29	1 14.53	+10 7.0	1.887	2.696	15.4	21.8	8 29	1 17.09	+ 3 32.5	1.479	2.319	17.4	20.2
9 8	1 10.32	+ 9 52.3	1.795	2.686	12.3	21.6	9 8	1 12.39	+ 3 0.2	1.426	2.339	13.4	20.0
9 18	1 3.82	+ 9 22.4	1.724	2.677	8.5	21.3	9 18	1 5.12	+ 2 16.1	1.394	2.359	8.8	19.8
9 28	0 55.55	+ 8 39.2	1.677	2.667	4.2	21.0	9 28	0 56.06	+ 1 25.9	1.385	2.379	3.9	19.6
10 8	0 46.38	+ 7 47.1	1.658	2.656	1.1	20.8	10 8	0 46.36	+ 0 36.7	1.403	2.399	2.4	19.5
10 18	0 37.32	+ 6 51.9	1.667	2.645	5.1	21.0	10 18	0 37.23	- 0 4.6	1.448	2.419	6.8	19.8
10 28	0 29.43	+ 6 0.6	1.703	2.634	9.4	21.3	10 28	0 29.77	- 0 32.2	1.518	2.439	11.1	20.1
11 7	0 23.53	+ 5 19.2	1.764	2.622	13.2	21.5	11 7	0 24.70	- 0 42.9	1.611	2.458	14.8	20.4
<b>94394</b>	2001 <i>SG</i> <sub>168</sub>	10 6.2	180°60'	2°1'/ 7.8	18		<b>71534</b>	2000 <i>CU</i> <sub>92</sub>	10 6.2	109°88'	4°2'/ 10.4	18	
8 29	1 15.25	+13 6.4	1.430	2.247	19.1	20.3	8 29	1 16.89	+18 31.0	2.518	3.265	13.6	18.8
9 8	1 11.50	+12 53.2	1.354	2.247	15.3	20.1	9 8	1 11.59	+19 14.2	2.428	3.268	11.3	18.6
9 18	1 4.89	+12 18.0	1.296	2.248	10.8	19.8	9 18	1 4.38	+19 44.1	2.360	3.272	8.7	18.4
9 28	0 56.10	+11 22.5	1.260	2.248	5.9	19.5	9 28	0 55.75	+19 59.4	2.317	3.275	6.1	18.3
10 8	0 46.26	+10 12.1	1.250	2.247	2.1	19.3	10 8	0 46.40	+20 0.5	2.301	3.279	4.3	18.2
10 18	0 36.71	+ 8 55.4	1.266	2.247	6.0	19.5	10 18	0 37.16	+19 49.2	2.316	3.282	5.0	18.2
10 28	0 28.78	+ 7 42.6	1.308	2.246	10.9	19.8	10 28	0 28.88	+19 29.6	2.359	3.286	7.4	18.4
11 7	0 23.42	+ 6 42.3	1.373	2.246	15.4	20.1	11 7	0 22.22	+19 6.6	2.428	3.289	10.0	18.6
<b>392045</b>	2009 <i>BB</i> <sub>108</sub>	10 6.2	217°90'	2°2'/ 3.9	18		<b>319316</b>	2006 <i>BE</i> <sub>159</sub>	10 6.2	245°40'	3°4'/ 1.9	18	
8 29	1 12.03	+ 1 49.8	1.981	2.816	13.8	21.4	8 29	1 8.60	- 2 21.5	2.411	3.251	11.5	20.8
9 8	1 8.11	+ 1 5.3	1.902	2.813	10.6	21.2	9 8	1 5.12	- 3 29.5	2.331	3.245	8.8	20.6
9 18	1 2.15	+ 0 11.5	1.845	2.811	7.0	21.0	9 18	1 0.00	- 4 43.6	2.275	3.239	6.0	20.4
9 28	0 54.72	- 0 46.8	1.815	2.808	3.4	20.8	9 28	0 53.71	- 5 58.3	2.246	3.233	3.7	20.3
10 8	0 46.60	- 1 43.4	1.812	2.806	2.8	20.7	10 8	0 46.87	- 7 7.6	2.246	3.227	4.0	20.3
10 18	0 38.68	- 2 32.3	1.838	2.803	6.3	20.9	10 18	0 40.18	- 8 6.0	2.275	3.221	6.6	20.4
10 28	0 31.88	- 3 8.2	1.890	2.800	10.0	21.2	10 28	0 34.34	- 8 49.0	2.331	3.215	9.5	20.6
11 7	0 26.86	- 3 27.9	1.967	2.797	13.3	21.4	11 7	0 29.92	- 9 14.5	2.410	3.208	12.1	20.8
<b>438447</b>	2006 <i>XZ</i> <sub>43</sub>	10 6.2	289°18'	15°5'/ 16.8	18		<b>32702</b>	2028 <i>T</i> <sub>-2</sub>	10 6.2	140°96'	0°8'/ 6.9	18	
8 29	1 14.81	-30 15.8	1.537	2.373	17.1	20.2	8 29	1 14.41	+ 8 55.0	2.143	2.948	13.9	19.8
9 8	1 11.45	-32 46.5	1.485	2.350	15.9	20.1	9 8	1 9.79	+ 8 50.3	2.062	2.952	11.0	19.6
9 18	1 5.04	-35 1.3	1.454	2.327	15.5	20.0	9 18	1 3.21	+ 8 33.8	2.004	2.957	7.5	19.4
9 28	0 56.24	-36 45.4	1.443	2.304	16.1	20.0	9 28	0 55.20	+ 8 7.6	1.971	2.961	3.7	19.2
10 8	0 46.23	-37 47.4	1.452	2.281	17.6	20.0	10 8	0 46.54	+ 7 35.2	1.966	2.965	0.9	19.0
10 18	0 36.49	-38 1.5	1.479	2.258	19.6	20.1	10 18	0 38.09	+ 7 0.9	1.991	2.969	4.5	19.3
10 28	0 28.45	-37 28.0	1.521	2.235	21.6	20.2	10 28	0 30.73	+ 6 29.8	2.043	2.972	8.2	19.5
11 7	0 23.14	-36 12.7	1.576	2.212	23.5	20.3	11 7	0 25.12	+ 6 6.2	2.122	2.976	11.5	19.7
<b>387796</b>	2003 <i>WT</i> <sub>129</sub>	10 6.2	5°76'	1.4°/ 7.2	17		<b>378105</b>	2006 <i>UD</i> <sub>218</sub>	10 6.2	339°38'	0°2'/ 6.1	18	
8 29	1 11.91	+ 9 39											

EPHEMERIDES

10 6.2

10 6.2

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>88179</b>	2000 <i>XU</i> <sub>33</sub>	10 6.2 346°69	2°3/ 7.8 18				<b>71606</b>	2000 <i>DY</i> <sub>101</sub>	10 6.2 353°38	3°4/ 2.5 18			
8 29	1 13.98	+10 17.5	1.713	2.528	16.5	18.6	8 29	1 9.15	- 2 12.3	2.106	2.952	12.7	19.0
9 8	1 10.14	+10 49.2	1.628	2.521	13.2	18.3	9 8	1 5.75	- 3 4.6	2.033	2.950	9.8	18.8
9 18	1 3.83	+11 8.2	1.563	2.514	9.4	18.1	9 18	1 0.52	- 4 2.7	1.982	2.949	6.6	18.6
9 28	0 55.62	+11 14.6	1.522	2.509	5.2	17.8	9 28	0 53.99	- 5 1.3	1.958	2.947	3.8	18.5
10 8	0 46.43	+11 10.5	1.507	2.504	2.3	17.6	10 8	0 46.86	- 5 54.1	1.962	2.946	4.0	18.5
10 18	0 37.38	+10 59.4	1.519	2.499	5.3	17.8	10 18	0 39.94	- 6 35.7	1.993	2.946	6.9	18.7
10 28	0 29.60	+10 46.7	1.558	2.496	9.5	18.1	10 28	0 34.02	- 7 2.0	2.050	2.945	10.1	18.9
11 7	0 23.99	+10 37.8	1.620	2.493	13.4	18.3	11 7	0 29.72	- 7 10.8	2.131	2.945	12.9	19.0
<b>137605</b>	1999 <i>VK</i> <sub>174</sub>	10 6.2 249°79	13°4/ 20.8 18				<b>210623</b>	2000 <i>EN</i> <sub>28</sub>	10 6.2 254°17	1°8/ 4.4 18			
8 29	1 21.54	-30 34.8	1.883	2.694	15.4	18.2	8 29	1 15.59	+ 1 16.3	2.313	3.133	12.6	20.9
9 8	1 16.06	-32 25.0	1.825	2.674	14.1	18.0	9 8	1 10.76	+ 0 51.6	2.209	3.112	9.8	20.7
9 18	1 7.80	-34 0.4	1.788	2.654	13.4	18.0	9 18	1 3.96	+ 0 19.5	2.129	3.090	6.5	20.5
9 28	0 57.42	-35 9.3	1.773	2.634	13.6	17.9	9 28	0 55.63	- 0 16.5	2.075	3.068	3.1	20.2
10 8	0 46.04	-35 42.9	1.780	2.612	14.7	18.0	10 8	0 46.48	- 0 51.8	2.051	3.045	2.3	20.1
10 18	0 34.98	-35 36.8	1.807	2.590	16.4	18.0	10 18	0 37.35	- 1 21.9	2.056	3.021	5.7	20.3
10 28	0 25.50	-34 51.6	1.854	2.567	18.2	18.1	10 28	0 29.12	- 1 42.3	2.089	2.997	9.3	20.5
11 7	0 18.51	-33 32.4	1.916	2.544	20.0	18.2	11 7	0 22.52	- 1 50.1	2.148	2.972	12.5	20.7
<b>507982</b>	2015 <i>BS</i> <sub>119</sub>	10 6.2 191°79	2°3/ 4.2 17				<b>227917</b>	2007 <i>FC</i> <sub>24</sub>	10 6.2 174°50	0°8/ 5.5 18			
8 29	1 16.23	+ 1 59.3	1.737	2.571	15.5	22.3	8 29	1 16.51	+ 4 46.4	1.821	2.644	15.3	21.6
9 8	1 11.67	+ 1 17.5	1.659	2.570	12.0	22.1	9 8	1 11.78	+ 4 29.2	1.742	2.646	11.9	21.3
9 18	1 4.70	+ 0 25.1	1.604	2.569	7.9	21.8	9 18	1 4.73	+ 4 1.1	1.686	2.647	7.9	21.1
9 28	0 55.96	- 0 32.6	1.574	2.567	3.8	21.6	9 28	0 55.98	+ 3 25.6	1.654	2.648	3.6	20.8
10 8	0 46.38	- 1 28.7	1.571	2.564	3.0	21.5	10 8	0 46.42	+ 2 47.7	1.650	2.648	1.4	20.7
10 18	0 37.06	- 2 16.3	1.596	2.562	6.9	21.8	10 18	0 37.13	+ 2 12.9	1.675	2.649	5.8	21.0
10 28	0 29.08	- 2 49.5	1.647	2.558	11.1	22.0	10 28	0 29.13	+ 1 46.8	1.726	2.648	9.9	21.2
11 7	0 23.25	- 3 4.9	1.721	2.554	14.7	22.2	11 7	0 23.19	+ 1 33.3	1.802	2.648	13.6	21.5
<b>241204</b>	2007 <i>TV</i> <sub>28</sub>	10 6.2 45°41	1°2/ 7.4 18				<b>411583</b>	2011 <i>EN</i> <sub>36</sub>	10 6.2 275°51	1°4/ 4.5 17			
8 29	1 10.57	+12 1.7	1.790	2.603	16.0	20.7	8 29	1 9.66	+ 2 52.1	2.523	3.347	11.5	21.9
9 8	1 7.23	+11 30.7	1.713	2.606	12.7	20.5	9 8	1 5.96	+ 2 16.3	2.424	3.330	8.9	21.7
9 18	1 1.70	+10 41.6	1.656	2.609	8.8	20.3	9 18	1 0.62	+ 1 32.3	2.349	3.312	5.9	21.5
9 28	0 54.56	+ 9 37.2	1.623	2.612	4.5	20.0	9 28	0 54.05	+ 0 43.3	2.300	3.294	2.7	21.3
10 8	0 46.69	+ 8 23.0	1.617	2.615	1.2	19.8	10 8	0 46.85	- 0 6.2	2.281	3.276	1.9	21.2
10 18	0 39.08	+ 7 6.3	1.639	2.619	5.0	20.1	10 18	0 39.71	- 0 51.5	2.290	3.257	5.0	21.4
10 28	0 32.69	+ 5 55.1	1.688	2.622	9.2	20.3	10 28	0 33.35	- 1 28.0	2.328	3.239	8.3	21.6
11 7	0 28.25	+ 4 56.1	1.761	2.625	12.9	20.6	11 7	0 28.36	- 1 52.5	2.391	3.220	11.2	21.7
<b>485325</b>	2011 <i>BL</i> <sub>68</sub>	10 6.2 259°59	7°8/ 15.3 17				<b>181780</b>	1997 <i>WH</i> <sub>6</sub>	10 6.2 269°50	0°2/ 6.0 17			
8 29	1 14.88	+31 4.7	2.532	3.203	15.2	21.6	8 29	1 14.01	+ 8 2.9	1.510	2.342	17.5	21.3
9 8	1 10.38	+32 1.1	2.434	3.199	13.5	21.4	9 8	1 10.60	+ 7 32.7	1.418	2.325	13.9	21.0
9 18	1 3.79	+32 38.7	2.355	3.195	11.5	21.3	9 18	1 4.42	+ 6 44.0	1.345	2.307	9.5	20.7
9 28	0 55.57	+32 54.2	2.297	3.190	9.6	21.2	9 28	0 56.02	+ 5 40.2	1.295	2.289	4.4	20.3
10 8	0 46.45	+32 46.2	2.263	3.186	8.2	21.1	10 8	0 46.39	+ 4 27.7	1.272	2.270	1.1	20.1
10 18	0 37.36	+32 15.8	2.256	3.182	7.9	21.0	10 18	0 36.80	+ 3 15.2	1.275	2.252	6.6	20.4
10 28	0 29.24	+31 27.1	2.275	3.177	8.9	21.1	10 28	0 28.59	+ 2 12.3	1.303	2.233	11.8	20.6
11 7	0 22.87	+30 27.0	2.319	3.173	10.6	21.2	11 7	0 22.79	+ 1 26.3	1.354	2.214	16.3	20.9
<b>426659</b>	2013 <i>TA</i> <sub>2</sub>	10 6.2 268°03	6°3/ 11.2 18				<b>112691</b>	2002 <i>PN</i> <sub>100</sub>	10 6.2 2°01	4°1/ 3.8 18			
8 29	1 14.72	+21 23.6	1.579	2.353	19.4	20.7	8 29	1 15.08	- 3 52.9	1.314	2.178	17.8	18.5
9 8	1 11.22	+21 53.7	1.488	2.342	16.4	20.5	9 8	1 11.42	- 3 57.9	1.250	2.176	13.8	18.3
9 18	1 4.87	+22 0.1	1.413	2.332	12.9	20.2	9 18	1 4.85	- 4 6.3	1.206	2.175	9.4	18.0
9 28	0 56.22	+21 39.7	1.360	2.321	9.2	20.0	9 28	0 56.11	- 4 12.2	1.184	2.176	5.2	17.8
10 8	0 46.30	+20 53.1	1.331	2.310	6.5	19.8	10 8	0 46.41	- 4 9.5	1.187	2.177	4.7	17.8
10 18	0 36.43	+19 44.9	1.327	2.299	7.2	19.8	10 18	0 37.12	- 3 53.4	1.214	2.180	8.6	18.0
10 28	0 28.01	+18 24.2	1.349	2.288	10.6	20.0	10 28	0 29.57	- 3 21.0	1.266	2.184	13.1	18.3
11 7	0 22.11	+17 2.2	1.394	2.277	14.5	20.2	11 7	0 24.66	- 2 32.2	1.338	2.190	17.0	18.5
<b>404036</b>	2012 <i>CM</i> <sub>51</sub>	10 6.2 239°45	2°7/ 2.8 18				<b>389796</b>	2011 <i>US</i> <sub>119</sub>	10 6.2 67°17	1°0/ 5.4 18			
8 29	1 9.04	+ 0 6.3	2.325	3.161	12.0	21.2	8 29	1 18.42	+ 3 6.9	1.754	2.580	15.7	20.4
9 8	1 5.51	- 0 56.4	2.243	3.156	9.2	21.0	9 8	1 13.08	+ 3 5.6	1.695	2.600	12.1	20.2
9 18	1 0.30	- 2 6.9	2.185	3.151	6.1	20.8	9 18	1 5.45	+ 2 55.8	1.658	2.620	8.0	20.1
9 28	0 53.87	- 3 20.1	2.155	3.146	3.3	20.6	9 28	0 56.22	+ 2 40.8	1.646	2.639	3.6	19.8
10 8	0 46.86	- 4 30.0	2.153	3.141	3.3	20.6	10 8	0 46.41	+ 2 25.0	1.661	2.659	1.5	19.7
10 18	0 40.01	- 5 30.7	2.180	3.135	6.2	20.8	10 18	0 37.06	+ 2 12.8	1.705	2.679	5.7	20.1
10 28	0 34.06	- 6 17.6	2.234	3.130	9.3	20.9	10 28	0 29.19	+ 2 8.4	1.776	2.698	9.7	20.3
11 7	0 29.57	- 6 47.6	2.313	3.124	12.1	21.1	11 7	0 23.45	+ 2 14.3	1.871	2.718	13.1	20.6
<b>515949</b>	2015 <i>RG</i> <sub>58</sub>	10 6.2 304°04	0°6/ 6.8 18				<b>476083</b>	2007 <i>TX</i> <sub>46</sub>	10 6.2 45°01	2°4/ 8.4 18			
8 29	1 11.57	+ 8 58.1	2.018	2.832	14.4	21.5	8 29	1 11.72	+14 46.4	1.421	2.238	19.2	20.3
9 8	1 7.80	+ 8 43.5	1.933	2.828	11.3	21.3	9 8	1 8.43	+14 21.8	1.369	2.261	15.3	20.1
9 18	1 2.01	+ 8 15.8	1.869	2.825	7.7	21.1	9 18	1 2.58	+13 34.2	1.335	2.285	10.8	19.9
9 28	0 54.70	+ 7 37.3	1.830	2.821	3.8	20.8	9 28	0 54.96	+12 26.8	1.324	2.310	5.9	19.7
10 8	0 46.67	+ 6 52.2	1.818	2.817	0.8	20.6	10 8	0 46.70	+11 6.3	1.339	2.335	2.4	19.5
10 18	0 38.81	+ 6 5.8	1.835	2.814	4.8	20.9	10 18	0 38.99	+ 9 42.0	1.379	2.360	5.5	19.8
10 28	0 32.01	+ 5 23.8	1.880	2.810	8.7	21.1	10 28	0 32.91	+ 8 23.7	1.445	2.386	9.9	20.1
11 7	0 26.99	+ 4 51.3	1.949	2.807	12.2	21.3	11 7	0 29.15	+ 7 19.0	1.535	2.412	13.7	20.4
<b>468516</b>	2005 <i>SE</i> <sub>110</sub>	10 6.2 16°34	1°3/ 5.2 18				<b>213816</b>	2003 <i>QQ</i> <sub>21</sub>	10 6.2 51°67	5°0/ 2.6 17			
8 29	1 6.71	+ 5 5											

EPHEMERIDES

10 6.2

10 6.2

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>183695</b>	2003 <i>YF</i> <sub>31</sub>	10	6.2 313°11	1.9°/ 4.6	18		<b>485945</b>	2012 <i>HL</i> <sub>44</sub>	10	6.2 179°88	0°6/ 7.0	18	
8 29	1 13.12	+ 2 16.8	1.723	2.564	15.3	20.1	8 29	1 8.70	+10 49.8	2.745	3.540	11.5	21.9
9 8	1 9.34	+ 1 51.4	1.643	2.557	11.9	19.8	9 8	1 5.01	+10 13.2	2.656	3.541	9.0	21.8
9 18	1 3.22	+ 1 16.1	1.584	2.550	7.9	19.6	9 18	0 59.86	+ 9 24.7	2.591	3.541	6.2	21.6
9 28	0 55.34	+ 0 35.3	1.549	2.543	3.7	19.3	9 28	0 53.67	+ 8 26.7	2.552	3.541	3.1	21.4
10 8	0 46.59	- 0 5.0	1.542	2.537	2.5	19.2	10 8	0 47.01	+ 7 22.9	2.542	3.541	0.7	21.2
10 18	0 38.04	- 0 38.8	1.561	2.531	6.6	19.5	10 18	0 40.48	+ 6 18.0	2.563	3.541	3.7	21.4
10 28	0 30.76	- 1 0.5	1.606	2.525	10.8	19.7	10 28	0 34.73	+ 5 16.9	2.613	3.540	6.7	21.6
11 7	0 25.54	- 1 6.7	1.675	2.520	14.5	19.9	11 7	0 30.25	+ 4 23.9	2.690	3.539	9.5	21.8
<b>137209</b>	1999 <i>NU</i> <sub>1</sub>	10	6.2 57°07	15°4/23.0	18		<b>118336</b>	1999 <i>BB</i> <sub>7</sub>	10	6.2 269°33	1°8/ 7.8	18	
8 29	1 18.91	+41 18.6	1.441	2.094	25.6	19.3	8 29	1 13.15	+12 37.4	1.727	2.535	16.6	20.1
9 8	1 15.41	+43 5.0	1.382	2.109	23.6	19.1	9 8	1 9.62	+12 23.4	1.630	2.519	13.4	19.8
9 18	1 8.14	+44 15.7	1.334	2.125	21.2	19.0	9 18	1 3.60	+11 50.5	1.552	2.502	9.5	19.6
9 28	0 57.83	+44 41.5	1.301	2.141	18.8	18.9	9 28	0 55.62	+10 59.9	1.498	2.485	5.2	19.3
10 8	0 46.02	+44 17.2	1.284	2.158	16.7	18.8	10 8	0 46.55	+ 9 55.8	1.470	2.467	1.8	19.0
10 18	0 34.62	+43 3.9	1.286	2.174	15.5	18.8	10 18	0 37.52	+ 8 44.9	1.470	2.450	5.4	19.2
10 28	0 25.52	+41 11.1	1.309	2.191	15.5	18.8	10 28	0 29.70	+ 7 35.7	1.496	2.432	10.0	19.5
11 7	0 19.94	+38 54.3	1.352	2.208	16.6	19.0	11 7	0 24.02	+ 6 36.4	1.546	2.414	14.2	19.7
<b>485270</b>	2010 <i>WN</i> <sub>52</sub>	10	6.2 218°63	3°9/ 1.9	18		<b>453048</b>	2007 <i>TV</i> <sub>72</sub>	10	6.2 3°26	6°3/12.6	17	
8 29	1 12.80	- 6 0.0	2.348	3.186	11.8	21.6	8 29	1 1.68	+29 34.6	0.907	1.714	28.2	20.4
9 8	1 8.36	- 6 39.0	2.272	3.183	9.2	21.4	9 8	1 2.39	+28 19.6	0.838	1.712	24.1	20.1
9 18	1 2.18	- 7 20.1	2.221	3.181	6.4	21.2	9 18	0 59.54	+26 1.6	0.782	1.712	18.9	19.8
9 28	0 54.74	- 7 58.4	2.195	3.179	4.2	21.1	9 28	0 53.89	+22 37.0	0.742	1.712	12.8	19.5
10 8	0 46.74	- 8 28.8	2.199	3.176	4.5	21.1	10 8	0 46.96	+18 16.7	0.724	1.713	7.3	19.2
10 18	0 38.94	- 8 47.3	2.230	3.173	6.9	21.3	10 18	0 40.50	+13 27.1	0.730	1.716	7.6	19.2
10 28	0 32.11	- 8 51.0	2.289	3.171	9.8	21.4	10 28	0 36.20	+ 8 44.4	0.761	1.719	13.3	19.6
11 7	0 26.84	- 8 39.0	2.371	3.168	12.3	21.6	11 7	0 35.09	+ 4 40.0	0.814	1.723	19.2	19.9
<b>380234</b>	2001 <i>SE</i> <sub>198</sub>	10	6.2 357°23	1°6/ 4.9	18		<b>320751</b>	2008 <i>EG</i> <sub>60</sub>	10	6.2 127°06	1°2/ 7.3	17	
8 29	1 10.94	+ 4 53.2	1.335	2.189	18.1	20.7	8 29	1 16.90	+11 25.1	1.861	2.661	15.9	21.6
9 8	1 8.22	+ 4 15.8	1.266	2.187	14.1	20.4	9 8	1 11.94	+11 2.4	1.791	2.677	12.6	21.4
9 18	1 2.74	+ 3 22.6	1.217	2.186	9.4	20.1	9 18	1 4.74	+10 23.4	1.742	2.692	8.7	21.2
9 28	0 55.17	+ 2 19.0	1.190	2.185	4.2	19.9	9 28	0 55.96	+ 9 30.9	1.718	2.706	4.4	21.0
10 8	0 46.63	+ 1 13.4	1.187	2.184	2.3	19.7	10 8	0 46.52	+ 8 29.8	1.722	2.720	1.2	20.8
10 18	0 38.41	+ 0 14.8	1.210	2.185	7.3	20.0	10 18	0 37.45	+ 7 26.5	1.754	2.733	4.9	21.1
10 28	0 31.77	- 0 28.4	1.257	2.185	12.3	20.3	10 28	0 29.74	+ 6 28.2	1.815	2.745	9.0	21.4
11 7	0 27.60	- 0 51.5	1.325	2.187	16.5	20.6	11 7	0 24.06	+ 5 40.5	1.901	2.757	12.5	21.6
<b>329886</b>	2005 <i>EK</i> <sub>167</sub>	10	6.2 98°73	2°0/ 7.7	17		<b>391264</b>	2006 <i>RS</i> <sub>120</sub>	10	6.2 78°18	0°7/ 6.8	18	
8 29	1 20.18	+11 18.3	1.563	2.370	18.1	21.4	8 29	1 15.01	+ 8 19.4	1.906	2.719	15.1	21.1
9 8	1 14.86	+11 26.5	1.500	2.388	14.4	21.2	9 8	1 10.48	+ 8 18.0	1.833	2.728	11.9	20.9
9 18	1 6.87	+11 17.8	1.457	2.406	10.1	21.0	9 18	1 3.79	+ 8 4.2	1.781	2.737	8.1	20.7
9 28	0 56.95	+10 53.7	1.437	2.424	5.4	20.7	9 28	0 55.54	+ 7 40.4	1.755	2.745	3.9	20.5
10 8	0 46.26	+10 18.4	1.444	2.441	2.0	20.6	10 8	0 46.61	+ 7 10.4	1.756	2.754	0.9	20.3
10 18	0 36.05	+ 9 37.7	1.478	2.457	5.5	20.8	10 18	0 37.96	+ 6 38.9	1.785	2.763	4.9	20.6
10 28	0 27.52	+ 8 59.0	1.539	2.474	9.9	21.1	10 28	0 30.56	+ 6 11.3	1.841	2.772	8.8	20.8
11 7	0 21.47	+ 8 28.4	1.624	2.489	13.8	21.4	11 7	0 25.10	+ 5 52.1	1.923	2.781	12.3	21.1
<b>4193</b>	Salanave	10	6.2 355°18	1°0/ 5.2	18		<b>391848</b>	2008 <i>SD</i> <sub>283</sub>	10	6.2 31°47	8°6/14.3	18	
8 29	1 8.62	+ 4 48.7	1.803	2.642	14.8	16.3	8 29	1 12.48	+27 23.6	1.520	2.268	21.0	20.2
9 8	1 5.71	+ 4 20.0	1.725	2.638	11.5	16.1	9 8	1 9.48	+28 7.4	1.448	2.275	18.2	20.0
9 18	1 0.71	+ 3 39.5	1.670	2.635	7.6	15.9	9 18	1 3.64	+28 22.4	1.392	2.283	15.0	19.8
9 28	0 54.15	+ 2 51.3	1.639	2.633	3.4	15.6	9 28	0 55.63	+28 4.8	1.355	2.291	11.7	19.7
10 8	0 46.87	+ 2 1.2	1.634	2.631	1.6	15.5	10 8	0 46.58	+27 14.7	1.340	2.299	9.2	19.6
10 18	0 39.80	+ 1 15.3	1.657	2.631	5.8	15.8	10 18	0 37.82	+25 57.0	1.349	2.308	8.8	19.6
10 28	0 33.87	+ 0 39.5	1.705	2.630	9.8	16.0	10 28	0 30.70	+24 21.8	1.383	2.318	10.8	19.7
11 7	0 29.80	+ 0 18.1	1.777	2.631	13.4	16.2	11 7	0 26.15	+22 41.5	1.440	2.327	13.9	19.9
<b>218225</b>	2002 <i>VT</i> <sub>65</sub>	10	6.2 33°24	8°5/11.6	18		<b>164395</b>	2005 <i>GJ</i> <sub>20</sub>	10	6.2 217°13	1°5/ 4.7	18	
8 29	1 19.59	+20 29.3	1.193	1.988	23.3	19.1	8 29	1 15.75	+ 1 55.1	2.294	3.113	12.7	20.7
9 8	1 15.55	+22 3.3	1.136	2.001	19.7	18.9	9 8	1 10.78	+ 1 34.9	2.204	3.106	9.9	20.5
9 18	1 7.98	+23 12.4	1.094	2.015	15.6	18.7	9 18	1 3.90	+ 1 7.6	2.137	3.098	6.5	20.3
9 28	0 57.68	+23 50.9	1.072	2.030	11.5	18.5	9 28	0 55.60	+ 0 36.5	2.097	3.090	3.0	20.1
10 8	0 46.10	+23 57.1	1.072	2.045	8.8	18.4	10 8	0 46.60	+ 0 5.8	2.086	3.081	2.0	20.0
10 18	0 35.00	+23 34.5	1.096	2.062	9.3	18.5	10 18	0 37.73	- 0 20.3	2.104	3.072	5.4	20.2
10 28	0 26.06	+22 52.8	1.142	2.079	12.3	18.7	10 28	0 29.85	- 0 37.5	2.151	3.062	8.9	20.4
11 7	0 20.38	+22 3.9	1.210	2.097	15.9	19.0	11 7	0 23.62	- 0 43.2	2.223	3.052	12.0	20.6
<b>510175</b>	2011 <i>AO</i> <sub>69</sub>	10	6.2 339°65	0°6/ 5.9	18		<b>130864</b>	2000 <i>UD</i> <sub>103</sub>	10	6.2 351°67	7°2/ 2.5	18	
8 29	1 6.56	+ 4 44.8	0.946	1.830	21.4	20.4	8 29	1 19.32	-10 52.3	1.268	2.131	18.3	18.1
9 8	1 6.04	+ 4 53.7	0.872	1.809	17.0	20.1	9 8	1 14.92	-11 5.5	1.203	2.125	14.6	17.9
9 18	1 2.06	+ 4 46.3	0.814	1.789	11.6	19.7	9 18	1 7.32	-11 14.6	1.158	2.119	10.7	17.6
9 28	0 55.16	+ 4 26.0	0.776	1.772	5.3	19.3	9 28	0 57.31	-11 11.3	1.134	2.115	7.7	17.4
10 8	0 46.62	+ 3 59.5	0.757	1.756	1.6	19.0	10 8	0 46.23	-10 48.6	1.135	2.111	7.9	17.5
10 18	0 38.14	+ 3 35.5	0.760	1.743	8.3	19.4	10 18	0 35.61	-10 2.7	1.160	2.109	11.1	17.6
10 28	0 31.59	+ 3 23.4	0.783	1.731	14.7	19.7	10 28	0 26.93	- 8 53.4	1.208	2.108	15.2	17.9
11 7	0 28.28	+ 3 29.9	0.824	1.722	20.2	20.0	11 7	0 21.15	- 7 24.0	1.277	2.108	18.9	18.1
<b>389101</b>	2008 <i>YA</i> <sub>11</sub>	10	6.2 205°52	5°2/30.9	18		<b>457934</b>	2009 <i>UO</i> <sub>139</sub>	10	6.2 336°46	14°7/16.9	17	
8 29	1 14.77	-											

EPHEMERIDES

10 6.2

10 6.2

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>399097</b>	2014 <i>DS</i> <sub>38</sub>		10 6.2 136°20	4.2/ 1.5	18		<b>36081</b>	1999 <i>RG</i> <sub>71</sub>		10 6.2 274°93	1.8/ 7.9	18	R
8 29	1 11.68	- 2 36.1	2.014	2.858	13.3	21.2	8 29	1 13.76	+11 13.6	2.198	2.994	13.9	17.9
9 8	1 7.73	- 4 1.3	1.950	2.866	10.2	21.0	9 8	1 9.41	+11 23.0	2.107	2.989	11.1	17.7
9 18	1 1.86	- 5 33.1	1.909	2.873	6.9	20.8	9 18	1 3.08	+11 20.1	2.038	2.984	7.9	17.5
9 28	0 54.64	- 7 4.3	1.895	2.881	4.4	20.7	9 28	0 55.27	+11 5.9	1.994	2.979	4.3	17.3
10 8	0 46.84	- 8 27.0	1.910	2.888	5.0	20.7	10 8	0 46.71	+10 42.8	1.978	2.974	1.8	17.1
10 18	0 39.33	- 9 34.5	1.952	2.895	7.8	20.9	10 18	0 38.27	+10 14.6	1.991	2.970	4.4	17.2
10 28	0 32.94	-10 22.0	2.021	2.901	10.9	21.1	10 28	0 30.84	+ 9 46.1	2.032	2.965	8.0	17.5
11 7	0 28.29	-10 47.7	2.113	2.907	13.7	21.3	11 7	0 25.10	+ 9 22.2	2.098	2.960	11.3	17.7
<b>223204</b>	2003 <i>BX</i> <sub>38</sub>		10 6.2 211°10	0.5/ 6.6	18		<b>282400</b>	2003 <i>SQ</i> <sub>303</sub>		10 6.2 48°05	5.0/ 11.3	18	
8 29	1 14.64	+ 9 25.2	1.990	2.797	14.8	21.4	8 29	1 10.89	+21 36.9	1.596	2.374	19.0	20.2
9 8	1 10.28	+ 8 58.8	1.899	2.791	11.7	21.1	9 8	1 7.83	+21 30.5	1.527	2.387	15.8	20.0
9 18	1 3.75	+ 8 17.7	1.830	2.785	8.0	20.9	9 18	1 2.29	+20 57.7	1.476	2.399	12.1	19.8
9 28	0 55.59	+ 7 24.4	1.787	2.778	3.8	20.6	9 28	0 54.93	+19 58.4	1.447	2.412	8.2	19.6
10 8	0 46.62	+ 6 23.8	1.772	2.771	0.8	20.4	10 8	0 46.80	+18 36.8	1.442	2.426	5.3	19.5
10 18	0 37.79	+ 5 22.0	1.786	2.763	5.0	20.7	10 18	0 39.04	+17 0.5	1.463	2.440	6.0	19.5
10 28	0 30.09	+ 4 25.8	1.827	2.754	9.1	20.9	10 28	0 32.76	+15 20.1	1.511	2.454	9.3	19.8
11 7	0 24.27	+ 3 40.8	1.894	2.745	12.8	21.1	11 7	0 28.71	+13 45.9	1.583	2.468	13.0	20.0
<b>223961</b>	2004 <i>XG</i> <sub>82</sub>		10 6.2 258°60	0.0/ 6.0	18		<b>24878</b>	1996 <i>HP</i> <sub>25</sub>		10 6.2 326°39	8.5/ 29.1	18	
8 29	1 9.73	+ 7 46.8	2.502	3.311	12.1	20.9	8 29	1 16.47	-17 44.2	1.881	2.724	14.1	17.8
9 8	1 6.04	+ 7 17.8	2.405	3.300	9.4	20.7	9 8	1 11.80	-18 27.9	1.808	2.709	11.7	17.6
9 18	1 0.69	+ 6 37.7	2.332	3.288	6.4	20.5	9 18	1 4.80	-19 4.5	1.758	2.695	9.6	17.4
9 28	0 54.12	+ 5 49.1	2.284	3.276	2.9	20.3	9 28	0 56.07	-19 26.4	1.731	2.680	8.5	17.3
10 8	0 46.94	+ 4 56.1	2.266	3.264	0.7	20.1	10 8	0 46.55	-19 26.8	1.730	2.667	9.2	17.3
10 18	0 39.85	+ 4 3.3	2.277	3.252	4.3	20.3	10 18	0 37.30	-19 2.1	1.754	2.654	11.4	17.4
10 28	0 33.57	+ 3 15.6	2.316	3.240	7.7	20.5	10 28	0 29.38	-18 11.5	1.801	2.641	14.0	17.6
11 7	0 28.68	+ 2 37.3	2.381	3.227	10.7	20.7	11 7	0 23.53	-16 57.7	1.870	2.629	16.5	17.7
<b>188535</b>	2004 <i>RW</i> <sub>253</sub>		10 6.2 358°05	7.2/ 28.1	18		<b>94091</b>	2000 <i>YK</i> <sub>61</sub>		10 6.2 314°18	0.1/ 6.3	18	
8 29	1 10.72	-13 42.2	2.051	2.903	12.8	19.8	8 29	1 9.14	+ 8 4.3	1.848	2.675	15.0	19.5
9 8	1 7.04	-15 2.9	1.992	2.902	10.3	19.7	9 8	1 6.31	+ 7 41.0	1.748	2.652	11.8	19.2
9 18	1 1.43	-16 21.0	1.956	2.902	8.2	19.5	9 18	1 1.30	+ 7 3.0	1.669	2.629	8.1	19.0
9 28	0 54.45	-17 28.7	1.945	2.901	7.2	19.5	9 28	0 54.55	+ 6 12.7	1.614	2.607	3.8	18.7
10 8	0 46.88	-18 18.8	1.961	2.901	8.1	19.5	10 8	0 46.87	+ 5 15.3	1.586	2.584	0.8	18.4
10 18	0 39.59	-18 46.6	2.003	2.901	10.2	19.7	10 18	0 39.19	+ 4 16.9	1.585	2.563	5.4	18.7
10 28	0 33.39	-18 49.8	2.068	2.902	12.7	19.8	10 28	0 32.55	+ 3 25.0	1.610	2.541	9.8	18.9
11 7	0 28.93	-18 29.3	2.153	2.902	14.9	20.0	11 7	0 27.79	+ 2 45.3	1.660	2.521	13.8	19.1
<b>116279</b>	2003 <i>YG</i> <sub>46</sub>		10 6.2 270°48	1.9/ 4.5	18		<b>11960</b>	1994 <i>HA</i>		10 6.2 82°70	1.1/ 7.4	18	
8 29	1 13.40	+ 2 16.8	1.855	2.690	14.6	20.2	8 29	1 11.12	+13 51.1	1.741	2.548	16.6	17.7
9 8	1 9.36	+ 1 46.4	1.777	2.688	11.3	20.0	9 8	1 7.62	+12 50.4	1.674	2.563	13.1	17.5
9 18	1 3.14	+ 1 6.6	1.720	2.685	7.5	19.8	9 18	1 1.93	+11 28.5	1.627	2.578	9.1	17.3
9 28	0 55.30	+ 0 21.8	1.689	2.682	3.5	19.5	9 28	0 54.71	+ 9 49.5	1.605	2.594	4.6	17.1
10 8	0 46.70	- 0 22.3	1.685	2.680	2.4	19.4	10 8	0 46.87	+ 8 1.1	1.611	2.609	1.1	16.9
10 18	0 38.32	- 0 59.8	1.708	2.677	6.3	19.7	10 18	0 39.41	+ 6 12.4	1.645	2.624	5.1	17.2
10 28	0 31.14	- 1 25.6	1.759	2.674	10.2	19.9	10 28	0 33.28	+ 4 33.2	1.707	2.639	9.3	17.5
11 7	0 25.89	- 1 36.2	1.832	2.672	13.7	20.1	11 7	0 29.12	+ 3 10.5	1.793	2.654	12.9	17.7
<b>71632</b>	<i>Coralina</i>		10 6.2 98°34	2.5/ 3.4	18		<b>241898</b>	2001 <i>XL</i> <sub>72</sub>		10 6.2 334°19	1.8/ 4.6	18	
8 29	1 11.70	- 1 8.0	2.429	3.260	11.7	19.7	8 29	1 9.56	+ 3 16.3	1.653	2.500	15.6	20.3
9 8	1 7.38	- 1 44.9	2.362	3.271	9.0	19.5	9 8	1 6.73	+ 2 42.6	1.572	2.489	12.1	20.1
9 18	1 1.45	- 2 26.6	2.319	3.283	5.9	19.4	9 18	1 1.58	+ 1 57.0	1.511	2.479	8.0	19.8
9 28	0 54.41	- 3 8.9	2.303	3.294	3.1	19.2	9 28	0 54.66	+ 1 4.1	1.474	2.469	3.7	19.6
10 8	0 46.92	- 3 47.2	2.316	3.305	3.0	19.2	10 8	0 46.86	+ 0 10.6	1.464	2.460	2.4	19.5
10 18	0 39.68	- 4 17.5	2.358	3.316	5.6	19.4	10 18	0 39.22	- 0 36.4	1.480	2.451	6.7	19.7
10 28	0 33.38	- 4 36.3	2.428	3.327	8.5	19.6	10 28	0 32.82	- 1 10.5	1.521	2.443	11.0	19.9
11 7	0 28.54	- 4 41.9	2.522	3.338	11.1	19.8	11 7	0 28.45	- 1 27.5	1.585	2.436	14.8	20.2
<b>64350</b>	2001 <i>UV</i> <sub>81</sub>		10 6.2 241°34	1.4/ 4.7	18		<b>103012</b>	1999 <i>XT</i> <sub>103</sub>		10 6.2 324°74	0.1/ 6.1	18	
8 29	1 12.08	+ 3 13.2	2.172	2.998	13.1	20.2	8 29	1 9.77	+ 6 55.1	1.914	2.742	14.5	19.5
9 8	1 8.05	+ 2 41.4	2.086	2.992	10.1	20.0	9 8	1 6.62	+ 6 37.9	1.823	2.728	11.4	19.3
9 18	1 2.13	+ 2 0.5	2.023	2.986	6.7	19.8	9 18	1 1.38	+ 6 8.2	1.754	2.715	7.7	19.0
9 28	0 54.81	+ 1 14.3	1.986	2.980	3.0	19.6	9 28	0 54.54	+ 5 28.9	1.709	2.703	3.6	18.8
10 8	0 46.81	+ 0 27.6	1.978	2.973	1.9	19.5	10 8	0 46.89	+ 4 44.5	1.692	2.690	0.8	18.5
10 18	0 38.97	- 0 14.2	1.998	2.967	5.4	19.7	10 18	0 39.33	+ 4 0.6	1.701	2.679	5.2	18.8
10 28	0 32.12	- 0 46.5	2.045	2.960	9.0	19.9	10 28	0 32.83	+ 3 23.2	1.738	2.667	9.4	19.1
11 7	0 26.91	- 1 5.7	2.118	2.953	12.2	20.1	11 7	0 28.13	+ 2 57.1	1.798	2.657	13.0	19.3
<b>383138</b>	2005 <i>UT</i> <sub>92</sub>		10 6.2 154°68	5.1/ 11.8	16		<b>155431</b>	1997 <i>QL</i> <sub>2</sub>		10 6.2 47°43	10.6/ 18.4	18	
8 29	1 13.54	+23 36.4	1.939	2.684	17.2	21.3	8 29	1 18.82	+35 52.2	2.119	2.764	18.5	19.1
9 8	1 9.56	+23 25.4	1.853	2.690	14.5	21.1	9 8	1 13.95	+37 21.6	2.049	2.782	16.7	19.0
9 18	1 3.31	+22 49.9	1.787	2.695	11.3	20.9	9 18	1 6.45	+38 27.1	1.995	2.799	14.6	18.9
9 28	0 55.39	+21 49.3	1.743	2.699	7.9	20.7	9 28	0 56.92	+39 3.3	1.960	2.817	12.7	18.8
10 8	0 46.69	+20 26.4	1.725	2.703	5.4	20.6	10 8	0 46.37	+39 7.9	1.947	2.836	11.2	18.7
10 18	0 38.25	+18 47.6	1.735	2.707	5.8	20.6	10 18	0 36.01	+38 41.7	1.958	2.855	10.6	18.7
10 28	0 31.09	+17 1.9	1.773	2.710	8.6	20.8	10 28	0 27.06	+37 50.1	1.993	2.873	11.1	18.8
11 7	0 25.94	+15 19.3	1.837	2.713	11.9	21.0	11 7	0 20.44	+36 41.8	2.052	2.892	12.4	18.9
<b>218215</b>	2002 <i>TZ</i> <sub>332</sub>		10 6.2 86°23	2.0/ 4.4	17		<b>500239</b>	2012 <i>JL</i> <sub>25</sub>		10 6.2 89			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>290747</b>	2005 <i>UP</i> <sub>479</sub>	10 6.2 98°88	1.4/ 4.0	18			<b>316175</b>	2010 <i>BM</i> <sub>33</sub>	10 6.2 312°11	1.5/ 3.3	18		
8 29	1 7.30	+ 1 11.9	3.301	4.122	9.1	21.2	8 29	1 3.28	- 0 14.6	4.124	4.949	7.4	20.2
9 8	1 3.61	+ 0 37.5	3.229	4.133	7.0	21.0	9 8	1 0.39	- 0 54.6	4.038	4.945	5.6	20.1
9 18	0 58.78	- 0 1.6	3.181	4.144	4.6	20.9	9 18	0 56.60	- 1 38.3	3.977	4.940	3.7	19.9
9 28	0 53.16	- 0 42.6	3.162	4.155	2.2	20.7	9 28	0 52.18	- 2 23.2	3.945	4.936	1.9	19.8
10 8	0 47.22	- 1 22.1	3.173	4.166	1.8	20.7	10 8	0 47.47	- 3 6.4	3.942	4.931	1.8	19.8
10 18	0 41.44	- 1 57.0	3.214	4.176	4.0	20.9	10 18	0 42.84	- 3 45.3	3.970	4.927	3.6	19.9
10 28	0 36.29	- 2 24.5	3.283	4.187	6.4	21.1	10 28	0 38.66	- 4 17.5	4.027	4.923	5.5	20.0
11 7	0 32.16	- 2 42.7	3.379	4.197	8.5	21.2	11 7	0 35.24	- 4 41.3	4.110	4.918	7.3	20.2
<b>458503</b>	2011 <i>CE</i> <sub>30</sub>	10 6.2 277°79	9.3/22.5	18			<b>222433</b>	2001 <i>QB</i>	10 6.2 29°50	1.5/ 7.3	18		
8 29	1 10.34	-22 51.6	2.370	3.206	11.8	21.2	8 29	1 11.75	+10 29.5	1.074	1.927	21.7	20.0
9 8	1 6.75	-24 40.2	2.306	3.188	10.3	21.1	9 8	1 9.23	+10 25.2	1.027	1.943	17.1	19.8
9 18	1 1.29	-26 22.0	2.266	3.170	9.4	21.0	9 18	1 3.54	+ 9 58.6	0.996	1.960	11.7	19.6
9 28	0 54.45	-27 48.3	2.251	3.152	9.4	21.0	9 28	0 55.58	+ 9 13.1	0.986	1.978	5.9	19.3
10 8	0 46.92	-28 52.2	2.261	3.133	10.5	21.0	10 8	0 46.75	+ 8 16.2	0.999	1.997	1.6	19.1
10 18	0 39.53	-29 29.0	2.294	3.115	12.1	21.1	10 18	0 38.56	+ 7 17.8	1.036	2.018	6.6	19.5
10 28	0 33.09	-29 37.0	2.349	3.096	13.9	21.2	10 28	0 32.39	+ 6 27.6	1.095	2.040	11.8	19.9
11 7	0 28.25	-29 17.7	2.422	3.078	15.6	21.3	11 7	0 29.05	+ 5 53.1	1.175	2.062	16.3	20.2
<b>412674</b>	2014 <i>OW</i> <sub>206</sub>	10 6.2 16°46	1.1/ 5.2	18			<b>411472</b>	2010 <i>YV</i> <sub>1</sub>	10 6.2 267°11	6.5/29.1	18		
8 29	1 10.39	+ 4 9.6	2.042	2.872	13.6	21.3	8 29	1 14.18	-15 1.4	2.383	3.220	11.7	20.6
9 8	1 6.79	+ 3 44.1	1.967	2.875	10.5	21.1	9 8	1 9.50	-15 51.1	2.310	3.211	9.5	20.5
9 18	1 1.30	+ 3 9.1	1.914	2.878	7.0	20.9	9 18	1 3.00	-16 37.1	2.261	3.201	7.5	20.3
9 28	0 54.42	+ 2 28.1	1.887	2.881	3.1	20.7	9 28	0 55.20	-17 13.3	2.237	3.192	6.5	20.3
10 8	0 46.94	+ 1 46.1	1.887	2.884	1.6	20.6	10 8	0 46.82	-17 34.4	2.241	3.183	7.2	20.3
10 18	0 39.68	+ 1 8.2	1.916	2.888	5.3	20.9	10 18	0 38.65	-17 36.7	2.272	3.173	9.1	20.4
10 28	0 33.48	+ 0 39.2	1.972	2.893	8.9	21.1	10 28	0 31.47	-17 18.6	2.329	3.164	11.4	20.5
11 7	0 28.96	+ 0 22.5	2.051	2.897	12.2	21.3	11 7	0 25.90	-16 40.9	2.407	3.154	13.6	20.7
<b>141876</b>	2002 <i>PW</i> <sub>35</sub>	10 6.2 70°64	1.4/ 7.4	18			<b>356253</b>	2009 <i>UK</i> <sub>77</sub>	10 6.2 343°25	0.2/ 6.6	18		
8 29	1 14.98	+11 44.3	1.387	2.212	19.2	20.6	8 29	1 5.02	+ 7 35.7	4.177	4.973	7.8	21.6
9 8	1 11.13	+11 22.3	1.328	2.228	15.2	20.4	9 8	1 1.70	+ 7 23.4	4.085	4.972	6.1	21.5
9 18	1 4.54	+10 39.4	1.288	2.244	10.5	20.2	9 18	0 57.47	+ 7 5.2	4.018	4.971	4.1	21.4
9 28	0 55.97	+ 9 39.0	1.270	2.260	5.3	19.9	9 28	0 52.58	+ 6 42.7	3.980	4.970	1.9	21.2
10 8	0 46.62	+ 8 28.0	1.278	2.276	1.4	19.7	10 8	0 47.40	+ 6 17.7	3.971	4.970	0.4	21.1
10 18	0 37.78	+ 7 15.1	1.312	2.292	5.9	20.1	10 18	0 42.30	+ 5 52.4	3.992	4.969	2.6	21.3
10 28	0 30.64	+ 6 9.7	1.371	2.308	10.6	20.4	10 28	0 37.65	+ 5 29.1	4.044	4.968	4.7	21.4
11 7	0 26.02	+ 5 19.1	1.453	2.324	14.8	20.7	11 7	0 33.79	+ 5 9.9	4.123	4.968	6.6	21.6
<b>58614</b>	1997 <i>UO</i> <sub>7</sub>	10 6.2 342°17	1.4/ 5.1	18			<b>411926</b>	2012 <i>FN</i> <sub>83</sub>	10 6.2 153°16	3.1/10.4	18		
8 29	1 8.30	+ 6 5.3	1.287	2.145	18.5	18.6	8 29	1 11.04	+19 1.0	2.878	3.625	12.1	21.5
9 8	1 6.37	+ 5 22.2	1.213	2.136	14.4	18.3	9 8	1 6.82	+18 55.6	2.788	3.631	9.9	21.4
9 18	1 1.66	+ 4 20.2	1.158	2.128	9.6	18.0	9 18	1 1.10	+18 36.0	2.720	3.638	7.5	21.2
9 28	0 54.79	+ 3 4.9	1.126	2.121	4.3	17.7	9 28	0 54.31	+18 2.6	2.678	3.643	4.9	21.1
10 8	0 46.86	+ 1 45.3	1.118	2.115	2.2	17.5	10 8	0 47.03	+17 17.4	2.664	3.649	3.2	21.0
10 18	0 39.16	+ 0 31.8	1.134	2.110	7.5	17.8	10 18	0 39.90	+16 24.0	2.680	3.654	3.9	21.0
10 28	0 33.01	- 0 25.8	1.174	2.105	12.6	18.1	10 28	0 33.57	+15 26.8	2.726	3.659	6.2	21.2
11 7	0 29.35	- 1 1.3	1.235	2.102	17.1	18.4	11 7	0 28.54	+14 30.9	2.798	3.663	8.7	21.3
<b>356254</b>	2009 <i>US</i> <sub>78</sub>	10 6.2 328°13	0.6/ 7.3	18			<b>45255</b>	1999 <i>YK</i> <sub>13</sub>	10 6.2 143°85	1.0/ 4.9	18		
8 29	1 3.84	+10 1.5	4.204	4.992	7.9	21.1	8 29	1 10.83	+ 3 49.6	2.819	3.632	10.7	20.1
9 8	1 0.81	+ 9 41.4	4.110	4.991	6.2	20.9	9 8	1 6.55	+ 3 16.9	2.742	3.641	8.3	20.0
9 18	0 56.87	+ 9 14.3	4.041	4.990	4.2	20.8	9 18	1 0.85	+ 2 37.2	2.689	3.649	5.4	19.8
9 28	0 52.29	+ 8 41.7	4.000	4.988	2.1	20.6	9 28	0 54.17	+ 1 53.3	2.664	3.657	2.4	19.6
10 8	0 47.43	+ 8 5.5	3.989	4.987	0.6	20.5	10 8	0 47.07	+ 1 9.2	2.668	3.665	1.4	19.5
10 18	0 42.64	+ 7 28.3	4.008	4.986	2.4	20.7	10 18	0 40.15	+ 0 28.6	2.703	3.672	4.2	19.8
10 28	0 38.30	+ 6 52.5	4.057	4.985	4.5	20.8	10 28	0 34.01	- 0 4.8	2.767	3.679	7.1	20.0
11 7	0 34.73	+ 6 20.5	4.134	4.984	6.4	21.0	11 7	0 29.14	- 0 28.3	2.856	3.685	9.6	20.1
<b>63204</b>	2000 <i>YE</i> <sub>135</sub>	10 6.2 187°46	4.5/ 1.1	18			<b>366153</b>	2012 <i>EL</i> <sub>11</sub>	10 6.2 294°98	4.2/ 1.4	18		
8 29	1 10.95	- 6 4.6	2.222	3.066	12.2	19.1	8 29	1 9.06	- 3 30.3	2.086	2.934	12.7	20.8
9 8	1 7.07	- 7 6.5	2.152	3.066	9.4	18.9	9 8	1 5.81	- 4 42.8	2.007	2.925	9.8	20.6
9 18	1 1.40	- 8 11.4	2.105	3.066	6.6	18.8	9 18	1 0.70	- 6 1.5	1.952	2.917	6.7	20.4
9 28	0 54.46	- 9 13.3	2.085	3.066	4.6	18.6	9 28	0 54.20	- 7 20.2	1.923	2.908	4.4	20.2
10 8	0 46.96	-10 5.9	2.093	3.066	5.2	18.7	10 8	0 47.06	- 8 31.5	1.921	2.900	5.0	20.2
10 18	0 39.68	-10 44.3	2.129	3.065	7.6	18.8	10 18	0 40.06	- 9 29.1	1.948	2.891	7.7	20.4
10 28	0 33.39	-11 4.9	2.190	3.065	10.5	19.0	10 28	0 34.06	-10 8.1	2.000	2.883	10.9	20.6
11 7	0 28.67	-11 6.7	2.275	3.064	13.0	19.2	11 7	0 29.68	-10 26.4	2.075	2.875	13.8	20.8
<b>392763</b>	2012 <i>TG</i> <sub>56</sub>	10 6.2 330°74	3.9/ 4.3	18			<b>50208</b>	2000 <i>AD</i> <sub>222</sub>	10 6.2 82°09	1.4/ 7.5	18		
8 29	1 18.59	- 4 15.1	1.308	2.167	18.2	20.4	8 29	1 13.36	+11 17.9	1.883	2.689	15.5	19.6
9 8	1 14.60	- 4 3.7	1.225	2.147	14.4	20.1	9 8	1 9.27	+11 5.4	1.811	2.700	12.3	19.4
9 18	1 7.38	- 3 53.9	1.161	2.129	9.9	19.8	9 18	1 3.05	+10 37.6	1.759	2.710	8.5	19.2
9 28	0 57.53	- 3 40.3	1.119	2.111	5.3	19.5	9 28	0 55.28	+ 9 56.5	1.732	2.720	4.4	19.0
10 8	0 46.27	- 3 17.4	1.103	2.095	4.5	19.4	10 8	0 46.84	+ 9 6.6	1.732	2.730	1.4	18.8
10 18	0 35.11	- 2 41.0	1.111	2.079	8.8	19.6	10 18	0 38.70	+ 8 13.6	1.761	2.740	4.8	19.0
10 28	0 25.65	- 1 48.6	1.143	2.065	13.9	19.9	10 28	0 31.79	+ 7 24.1	1.817	2.750	8.7	19.3
11 7	0 19.07	- 0 40.5	1.196	2.052	18.4	20.1	11 7	0 26.80	+ 6 43.6	1.897	2.760	12.2	19.5
<b>145981</b>	2000 <i>AF</i> <sub>159</sub>	10 6.2 231°65	0.6/ 6.7	18			<b>134022</b>	2004 <i>VW</i> <sub>63</sub>	10 6.2 234°33	2.7/ 2.9	18		
8 29	1 16.69	+ 8 33.8	1.816	2.628	15								

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>332044</b>	2005 <i>QP</i> <sub>99</sub>	10	6.2 43°87'	3°1/ 8.5 18			<b>317120</b>	2001 <i>TS</i> <sub>256</sub>	10	6.2 309°77'	2°7/ 8.2 18		
8 29	1 14.37	+14 5.4	1.220	2.048	21.1	20.1	8 29	1 15.05	+12 15.6	1.538	2.353	18.1	20.2
9 8	1 10.99	+14 8.9	1.169	2.066	16.9	19.9	9 8	1 11.38	+12 33.5	1.453	2.345	14.6	20.0
9 18	1 4.61	+13 48.6	1.134	2.086	12.1	19.7	9 18	1 4.96	+12 34.2	1.387	2.337	10.5	19.7
9 28	0 56.07	+13 6.0	1.121	2.106	6.8	19.5	9 28	0 56.38	+12 17.8	1.344	2.329	5.9	19.4
10 8	0 46.69	+12 7.3	1.131	2.127	3.1	19.3	10 8	0 46.65	+11 47.3	1.326	2.322	2.7	19.2
10 18	0 37.92	+11 1.1	1.166	2.148	6.1	19.6	10 18	0 37.05	+11 8.1	1.334	2.314	5.8	19.4
10 28	0 31.07	+9 57.9	1.226	2.170	10.9	19.9	10 28	0 28.88	+10 27.6	1.368	2.307	10.4	19.7
11 7	0 26.95	+9 6.3	1.307	2.192	15.2	20.2	11 7	0 23.13	+9 53.4	1.425	2.301	14.7	19.9
<b>298709</b>	2004 <i>ES</i> <sub>100</sub>	10	6.2 329°70'	2°4/ 4.0 18			<b>32421</b>	2000 <i>RB</i> <sub>41</sub>	10	6.2 171°54'	4°0/ 10.8 18		
8 29	1 3.10	+5 39.3	1.313	2.179	17.7	19.8	8 29	1 13.51	+19 44.1	2.453	3.201	13.9	19.4
9 8	1 2.45	+4 29.7	1.220	2.149	13.8	19.5	9 8	1 9.09	+19 56.7	2.361	3.203	11.6	19.2
9 18	0 59.19	+2 56.8	1.146	2.120	9.2	19.1	9 18	1 2.83	+19 53.2	2.291	3.205	8.8	19.0
9 28	0 53.78	+1 6.5	1.095	2.091	4.2	18.8	9 28	0 55.21	+19 33.2	2.245	3.206	6.0	18.9
10 8	0 47.13	+0 50.4	1.069	2.064	3.4	18.6	10 8	0 46.92	+18 58.4	2.227	3.207	4.1	18.7
10 18	0 40.47	+2 40.7	1.066	2.038	8.6	18.9	10 18	0 38.77	+18 12.0	2.237	3.208	4.8	18.8
10 28	0 35.13	+4 11.3	1.087	2.014	13.9	19.1	10 28	0 31.57	+17 19.3	2.276	3.209	7.3	18.9
11 7	0 32.17	+5 13.6	1.128	1.991	18.7	19.3	11 7	0 25.95	+16 26.3	2.341	3.209	10.0	19.1
<b>441703</b>	2009 <i>AV</i> <sub>6</sub>	10	6.2 228°40'	7°1/ 13.7 18			<b>353929</b>	1995 <i>FZ</i> <sub>10</sub>	10	6.2 275°91'	0°3/ 6.5 16		
8 29	1 14.11	+27 17.0	2.093	2.808	16.9	21.5	8 29	1 17.33	+6 25.2	2.105	2.913	14.1	21.3
9 8	1 10.12	+27 47.1	1.997	2.803	14.7	21.4	9 8	1 12.51	+6 30.6	1.996	2.888	11.2	21.1
9 18	1 3.83	+27 55.0	1.919	2.797	12.1	21.2	9 18	1 5.43	+6 26.5	1.908	2.863	7.6	20.8
9 28	0 55.75	+27 37.9	1.862	2.792	9.4	21.0	9 28	0 56.54	+6 14.4	1.846	2.838	3.6	20.5
10 8	0 46.72	+26 55.6	1.830	2.786	7.4	20.9	10 8	0 46.62	+5 57.2	1.813	2.812	0.7	20.3
10 18	0 37.79	+25 51.1	1.825	2.779	7.3	20.9	10 18	0 36.62	+5 38.9	1.809	2.785	5.0	20.5
10 28	0 30.00	+24 31.2	1.846	2.773	9.1	21.0	10 28	0 27.58	+5 24.0	1.833	2.758	9.2	20.7
11 7	0 24.21	+23 4.9	1.893	2.766	11.8	21.1	11 7	0 20.37	+5 16.8	1.882	2.731	12.9	20.9
<b>215107</b>	1996 <i>RX</i> <sub>15</sub>	10	6.2 305°46'	0°5/ 7.3 18			<b>475098</b>	2005 <i>UB</i> <sub>219</sub>	10	6.2 333°91'	0°2/ 6.4 18		
8 29	1 4.59	+9 26.5	4.304	5.092	7.7	20.2	8 29	1 15.26	+5 57.8	1.350	2.193	18.6	21.2
9 8	1 1.37	+9 14.6	4.209	5.090	6.1	20.0	9 8	1 11.82	+6 10.2	1.271	2.184	14.7	20.9
9 18	0 57.26	+8 56.3	4.139	5.087	4.2	19.9	9 18	1 5.40	+6 9.6	1.211	2.175	10.0	20.7
9 28	0 52.51	+8 32.9	4.097	5.085	2.1	19.7	9 28	0 56.62	+5 58.3	1.174	2.167	4.7	20.3
10 8	0 47.47	+8 6.2	4.085	5.083	0.6	19.6	10 8	0 46.61	+5 40.6	1.161	2.160	0.9	20.0
10 18	0 42.50	+7 38.4	4.103	5.080	2.4	19.8	10 18	0 36.78	+5 22.5	1.174	2.154	6.6	20.4
10 28	0 37.96	+7 11.7	4.151	5.078	4.4	19.9	10 28	0 28.57	+5 10.4	1.211	2.148	11.8	20.7
11 7	0 34.19	+6 48.4	4.226	5.076	6.3	20.0	11 7	0 23.02	+5 9.7	1.270	2.143	16.3	21.0
<b>227906</b>	2007 <i>EU</i> <sub>175</sub>	10	6.2 34°72'	0°4/ 6.7 18			<b>447263</b>	2005 <i>UR</i> <sub>331</sub>	10	6.2 239°10'	2°2/ 3.9 18		
8 29	1 8.73	+10 4.9	2.137	2.949	13.7	20.4	8 29	1 12.65	+0 4.3	2.344	3.173	12.2	22.2
9 8	1 5.48	+9 25.5	2.058	2.952	10.8	20.2	9 8	1 8.38	+0 35.3	2.258	3.166	9.4	22.0
9 18	1 0.43	+8 31.6	2.000	2.956	7.3	20.0	9 18	1 2.33	+1 12.5	2.195	3.159	6.2	21.8
9 28	0 54.07	+7 26.4	1.969	2.960	3.5	19.8	9 28	0 54.97	+1 51.8	2.159	3.151	3.1	21.6
10 8	0 47.13	+6 15.2	1.965	2.963	0.7	19.5	10 8	0 46.99	+2 28.7	2.152	3.144	2.7	21.5
10 18	0 40.40	+5 4.0	1.990	2.967	4.5	19.8	10 18	0 39.14	+2 58.7	2.174	3.136	5.7	21.7
10 28	0 34.66	+3 59.3	2.042	2.972	8.2	20.1	10 28	0 32.22	+3 17.9	2.223	3.128	8.9	21.9
11 7	0 30.51	+3 6.1	2.120	2.976	11.4	20.3	11 7	0 26.83	+3 23.9	2.297	3.119	11.9	22.1
<b>355501</b>	2007 <i>YB</i> <sub>3</sub>	10	6.2 336°66'	3°4/ 3.2 18			<b>298131</b>	2002 <i>RZ</i> <sub>262</sub>	10	6.2 104°30'	0°1/ 6.1 18		
8 29	1 11.78	+1 16.1	1.756	2.605	14.7	20.6	8 29	1 10.64	+9 46.2	1.947	2.762	14.8	20.7
9 8	1 8.25	+2 0.3	1.682	2.600	11.4	20.4	9 8	1 7.09	+8 46.8	1.873	2.771	11.5	20.5
9 18	1 2.49	+2 52.1	1.629	2.596	7.6	20.2	9 18	1 1.57	+7 31.1	1.822	2.780	7.7	20.3
9 28	0 55.09	+3 45.4	1.601	2.592	4.2	20.0	9 28	0 54.63	+6 3.4	1.796	2.788	3.5	20.0
10 8	0 46.91	+4 33.4	1.600	2.589	4.1	20.0	10 8	0 47.08	+4 30.6	1.798	2.797	0.8	19.8
10 18	0 38.97	+5 9.8	1.626	2.586	7.5	20.2	10 18	0 39.82	+3 0.4	1.830	2.805	5.1	20.2
10 28	0 32.26	+5 29.6	1.677	2.583	11.3	20.4	10 28	0 33.69	+1 40.4	1.889	2.814	9.0	20.4
11 7	0 27.52	+5 30.6	1.751	2.580	14.7	20.6	11 7	0 29.34	+0 36.2	1.973	2.822	12.4	20.7
<b>75292</b>	1999 <i>XE</i> <sub>28</sub>	10	6.2 214°18'	4°3/ 2.5 18			<b>513525</b>	2009 <i>WF</i> <sub>37</sub>	10	6.2 312°16'	0°3/ 6.0 18		
8 29	1 17.14	+3 36.5	1.798	2.639	14.8	19.7	8 29	1 12.84	+6 12.3	1.388	2.233	18.1	21.4
9 8	1 12.40	+4 27.6	1.720	2.633	11.5	19.5	9 8	1 9.99	+6 4.4	1.300	2.214	14.3	21.1
9 18	1 5.28	+5 24.6	1.663	2.627	7.9	19.3	9 18	1 4.24	+5 41.4	1.230	2.195	9.8	20.8
9 28	0 56.39	+6 21.0	1.633	2.620	4.8	19.1	9 28	0 56.14	+5 6.1	1.182	2.176	4.5	20.4
10 8	0 46.64	+7 9.4	1.629	2.612	5.0	19.1	10 8	0 46.73	+4 24.1	1.159	2.158	1.2	20.2
10 18	0 37.12	+7 43.5	1.654	2.604	8.3	19.2	10 18	0 37.33	+3 42.9	1.162	2.141	6.8	20.5
10 28	0 28.89	+7 58.7	1.704	2.596	12.0	19.5	10 28	0 29.39	+3 10.5	1.189	2.124	12.2	20.7
11 7	0 22.76	+7 53.4	1.777	2.587	15.3	19.7	11 7	0 24.00	+2 53.2	1.237	2.107	16.9	21.0
<b>342509</b>	2008 <i>UC</i> <sub>186</sub>	10	6.2 19°97'	1°4/ 5.3 18			<b>111730</b>	2002 <i>CR</i> <sub>56</sub>	10	6.3 169°99'	2°9/ 8.5 18		
8 29	1 11.79	+4 17.8	1.260	2.118	18.8	20.4	8 29	1 18.43	+13 51.7	1.636	2.433	17.9	20.2
9 8	1 8.94	+3 56.9	1.203	2.125	14.6	20.2	9 8	1 13.75	+14 0.9	1.556	2.436	14.5	20.0
9 18	1 3.26	+3 21.9	1.163	2.133	9.6	19.9	9 18	1 6.39	+13 51.7	1.495	2.438	10.4	19.8
9 28	0 55.50	+2 38.1	1.147	2.142	4.3	19.6	9 28	0 56.99	+13 24.2	1.457	2.440	6.0	19.5
10 8	0 46.85	+1 53.1	1.154	2.151	2.1	19.5	10 8	0 46.58	+12 41.9	1.446	2.441	2.9	19.3
10 18	0 38.67	+1 14.7	1.186	2.162	7.1	19.9	10 18	0 36.42	+11 50.4	1.462	2.442	5.6	19.5
10 28	0 32.20	+0 49.7	1.242	2.174	12.0	20.2	10 28	0 27.74	+10 57.7	1.506	2.442	9.9	19.8
11 7	0 28.28	+0 42.4	1.319	2.186	16.2	20.5	11 7	0 21.46	+10 11.5	1.573	2.442	13.9	20.0
<b>12012</b>	Kitahiroshima	10	6.2 340°42'	1°5/ 5.4 18			<b>411889</b>	2012 <i>FE</i> <sub>33</sub>	10	6.3 213°32'	3°0/ 9.4 18		
8 29	1 15.70	+2 5.5	1.141	2.004	20.0	16.8	8 29	1 13.91	+15 36.1	2.517	3.		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>513376</b>	2008 <i>EJ</i> <sub>171</sub>	10 6.3 104°46'	2°1/ 3.7 18				<b>297179</b>	2010 <i>WB</i> <sub>34</sub>	10 6.3 242°24'	1°0/ 7.4 18			
8 29	1 11.22	+ 1 4.8	2.430	3.257	11.8	22.0	8 29	1 10.44	+10 59.8	2.399	3.197	12.8	21.1
9 8	1 7.04	+ 0 13.5	2.366	3.274	9.0	21.9	9 8	1 6.71	+10 37.9	2.306	3.191	10.2	20.9
9 18	1 1.27	- 0 44.3	2.326	3.290	5.9	21.7	9 18	1 1.25	+10 2.9	2.235	3.184	7.1	20.7
9 28	0 54.43	- 1 44.3	2.314	3.306	2.9	21.5	9 28	0 54.52	+ 9 16.9	2.190	3.178	3.6	20.5
10 8	0 47.16	- 2 41.3	2.331	3.322	2.6	21.5	10 8	0 47.17	+ 8 23.5	2.173	3.171	1.0	20.2
10 18	0 40.15	- 3 30.5	2.377	3.337	5.4	21.7	10 18	0 39.92	+ 7 27.5	2.186	3.164	4.1	20.5
10 28	0 34.08	- 4 8.0	2.451	3.352	8.4	22.0	10 28	0 33.55	+ 6 34.2	2.227	3.157	7.5	20.7
11 7	0 29.46	- 4 31.4	2.549	3.367	11.0	22.2	11 7	0 28.66	+ 5 48.7	2.294	3.150	10.6	20.9
<b>299705</b>	2006 <i>QS</i> <sub>161</sub>	10 6.3 11°83'	0°3/ 6.5 18				<b>216017</b>	2005 <i>UZ</i> <sub>253</sub>	10 6.3 55°98'	4°0/ 10.8 18			
8 29	1 11.93	+ 7 46.3	1.643	2.474	16.4	20.2	8 29	1 10.42	+20 7.7	2.079	2.844	15.6	19.9
9 8	1 8.54	+ 7 34.3	1.570	2.475	12.9	20.0	9 8	1 6.98	+20 1.1	1.998	2.851	12.9	19.7
9 18	1 2.79	+ 7 8.1	1.517	2.478	8.7	19.8	9 18	1 1.55	+19 34.4	1.937	2.858	9.8	19.6
9 28	0 55.28	+ 6 30.7	1.488	2.480	4.1	19.5	9 28	0 54.67	+18 48.0	1.899	2.865	6.5	19.4
10 8	0 46.96	+ 5 47.1	1.485	2.483	0.8	19.3	10 8	0 47.14	+17 44.7	1.887	2.872	4.2	19.2
10 18	0 38.91	+ 5 3.8	1.508	2.487	5.5	19.6	10 18	0 39.83	+16 30.0	1.903	2.879	4.9	19.3
10 28	0 32.19	+ 4 27.2	1.558	2.491	9.9	19.9	10 28	0 33.61	+15 11.1	1.947	2.886	7.9	19.5
11 7	0 27.58	+ 4 2.5	1.631	2.496	13.8	20.1	11 7	0 29.16	+13 55.5	2.017	2.894	11.0	19.7
<b>95242</b>	2002 <i>CK</i> <sub>51</sub>	10 6.3 246°96'	0°6/ 6.9 18				<b>129121</b>	2004 <i>XS</i> <sub>123</sub>	10 6.3 213°25'	4°3/ 9.6 18			
8 29	1 11.32	+ 9 26.8	2.297	3.102	13.1	19.9	8 29	1 19.73	+16 12.2	1.929	2.701	16.4	19.6
9 8	1 7.46	+ 9 8.0	2.205	3.095	10.4	19.7	9 8	1 14.54	+16 56.4	1.839	2.698	13.6	19.4
9 18	1 1.78	+ 8 36.9	2.136	3.089	7.1	19.5	9 18	1 6.85	+17 25.5	1.769	2.695	10.2	19.1
9 28	0 54.76	+ 7 55.6	2.092	3.082	3.5	19.3	9 28	0 57.23	+17 37.9	1.723	2.693	6.7	18.9
10 8	0 47.07	+ 7 7.9	2.077	3.075	0.7	19.1	10 8	0 46.58	+17 33.9	1.704	2.690	4.4	18.8
10 18	0 39.50	+ 6 18.6	2.090	3.068	4.3	19.3	10 18	0 36.03	+17 16.3	1.713	2.686	5.7	18.9
10 28	0 32.85	+ 5 33.1	2.132	3.061	7.9	19.5	10 28	0 26.72	+16 50.4	1.750	2.683	9.1	19.1
11 7	0 27.76	+ 4 56.0	2.200	3.054	11.1	19.7	11 7	0 19.55	+16 22.9	1.812	2.679	12.5	19.3
<b>437337</b>	2013 <i>SR</i> <sub>40</sub>	10 6.3 180°22'	1°4/ 5.2 17				<b>321487</b>	2009 <i>SZ</i> <sub>38</sub>	10 6.3 94°96'	0°9/ 7.3 18			
8 29	1 17.84	+ 3 7.9	1.633	2.465	16.4	21.0	8 29	1 10.59	+11 23.5	2.455	3.250	12.7	21.4
9 8	1 13.16	+ 2 52.1	1.557	2.466	12.8	20.8	9 8	1 6.61	+10 51.4	2.383	3.267	10.0	21.2
9 18	1 5.91	+ 2 25.9	1.502	2.466	8.5	20.5	9 18	1 1.03	+10 6.4	2.334	3.283	6.8	21.0
9 28	0 56.73	+ 1 53.4	1.472	2.466	3.9	20.3	9 28	0 54.35	+ 9 11.3	2.312	3.300	3.5	20.8
10 8	0 46.66	+ 1 20.2	1.469	2.466	2.0	20.1	10 8	0 47.22	+ 8 10.1	2.318	3.316	0.9	20.7
10 18	0 36.86	+ 0 52.2	1.493	2.465	6.5	20.4	10 18	0 40.35	+ 7 7.8	2.353	3.332	3.8	20.9
10 28	0 28.52	+ 0 35.0	1.543	2.465	10.9	20.7	10 28	0 34.39	+ 6 9.7	2.418	3.348	7.1	21.2
11 7	0 22.48	+ 0 32.0	1.617	2.464	14.8	20.9	11 7	0 29.89	+ 5 20.3	2.509	3.363	9.9	21.4
<b>467856</b>	2010 <i>WE</i> <sub>31</sub>	10 6.3 63°91'	4°2/ 28.1 18				<b>512655</b>	2016 <i>TW</i> <sub>67</sub>	10 6.3 202°56'	4°8/ 11.6 18			
8 29	1 6.05	-16 28.9	4.302	5.131	7.0	21.1	8 29	1 12.21	+22 51.0	1.954	2.706	16.9	20.9
9 8	1 2.46	-17 5.8	4.241	5.135	5.7	21.0	9 8	1 8.63	+22 37.9	1.863	2.704	14.2	20.7
9 18	0 57.96	-17 39.5	4.206	5.138	4.6	21.0	9 18	1 2.82	+22 0.8	1.790	2.702	11.0	20.5
9 28	0 52.85	-18 7.0	4.199	5.142	4.2	20.9	9 28	0 55.32	+20 58.9	1.740	2.699	7.6	20.3
10 8	0 47.50	-18 25.7	4.219	5.146	4.6	21.0	10 8	0 47.00	+19 35.2	1.716	2.697	5.1	20.2
10 18	0 42.26	-18 34.0	4.268	5.150	5.7	21.1	10 18	0 38.87	+17 55.7	1.720	2.694	5.6	20.2
10 28	0 37.52	-18 30.6	4.343	5.154	7.0	21.2	10 28	0 31.93	+16 9.5	1.751	2.690	8.6	20.4
11 7	0 33.59	-18 15.5	4.442	5.158	8.2	21.3	11 7	0 26.95	+14 26.6	1.809	2.687	12.0	20.6
<b>519081</b>	2010 <i>LV</i> <sub>36</sub>	10 6.3 99°35'	4°9/ 11.3 18				<b>129124</b>	2004 <i>XB</i> <sub>144</sub>	10 6.3 317°92'	5°6/ 29.3 18			
8 29	1 13.90	+21 26.0	1.896	2.655	17.1	21.1	8 29	1 8.38	- 7 58.9	2.141	2.994	12.3	20.0
9 8	1 9.86	+21 31.7	1.820	2.666	14.3	20.9	9 8	1 5.26	- 9 28.8	2.071	2.989	9.6	19.8
9 18	1 3.56	+21 15.5	1.762	2.677	11.0	20.8	9 18	1 0.33	-11 1.7	2.026	2.984	7.0	19.6
9 28	0 55.61	+20 36.7	1.727	2.688	7.6	20.6	9 28	0 54.10	-12 29.9	2.007	2.980	5.6	19.5
10 8	0 46.90	+19 38.0	1.717	2.698	5.1	20.5	10 8	0 47.27	-13 46.0	2.015	2.975	6.5	19.6
10 18	0 38.49	+18 24.7	1.736	2.708	5.7	20.5	10 18	0 40.62	-14 43.8	2.051	2.971	8.9	19.7
10 28	0 31.36	+17 5.0	1.781	2.719	8.6	20.7	10 28	0 34.94	-15 19.5	2.111	2.967	11.6	19.9
11 7	0 26.27	+15 47.5	1.852	2.728	11.8	20.9	11 7	0 30.83	-15 32.0	2.193	2.962	14.1	20.1
<b>315068</b>	2007 <i>DE</i> <sub>36</sub>	10 6.3 85°29'	2°3/ 8.5 18				<b>438852</b>	2009 <i>DG</i> <sub>22</sub>	10 6.3 57°48'	5°6/ 30.7 18			
8 29	1 14.47	+12 54.8	2.258	3.044	13.9	20.5	8 29	1 11.12	- 4 49.1	1.641	2.500	15.1	20.6
9 8	1 9.86	+13 8.3	2.178	3.051	11.2	20.3	9 8	1 7.68	- 6 22.6	1.593	2.516	11.6	20.4
9 18	1 3.36	+13 8.9	2.119	3.059	8.0	20.1	9 18	1 2.04	- 8 0.6	1.567	2.532	8.1	20.3
9 28	0 55.47	+12 57.4	2.085	3.066	4.6	19.9	9 28	0 54.87	- 9 33.9	1.567	2.549	5.7	20.2
10 8	0 46.95	+12 35.9	2.080	3.074	2.3	19.8	10 8	0 47.13	-10 53.2	1.593	2.566	6.5	20.3
10 18	0 38.63	+12 8.2	2.103	3.081	4.3	19.9	10 18	0 39.82	-11 51.5	1.645	2.583	9.4	20.5
10 28	0 31.34	+11 38.8	2.155	3.089	7.5	20.2	10 28	0 33.88	-12 24.5	1.722	2.600	12.6	20.7
11 7	0 25.73	+11 12.6	2.233	3.096	10.6	20.4	11 7	0 29.94	-12 32.1	1.820	2.617	15.5	20.9
<b>287836</b>	2003 <i>SL</i> <sub>208</sub>	10 6.3 11°81'	2°0/ 8.3 18				<b>295152</b>	2008 <i>FU</i> <sub>54</sub>	10 6.3 49°09'	1°8/ 4.7 18			
8 29	1 9.24	+13 1.5	1.838	2.647	15.7	20.1	8 29	1 15.20	+ 0 43.0	1.965	2.797	14.0	19.9
9 8	1 6.25	+12 53.7	1.761	2.650	12.6	19.9	9 8	1 10.57	+ 0 31.5	1.896	2.805	10.8	19.7
9 18	1 1.16	+12 29.1	1.705	2.654	8.9	19.7	9 18	1 3.88	+ 0 13.8	1.849	2.813	7.2	19.5
9 28	0 54.52	+11 49.2	1.673	2.658	5.0	19.5	9 28	0 55.72	- 0 6.6	1.828	2.821	3.4	19.3
10 8	0 47.16	+10 58.2	1.666	2.663	2.0	19.3	10 8	0 46.94	- 0 25.1	1.835	2.830	2.3	19.2
10 18	0 40.02	+10 1.8	1.687	2.668	4.7	19.5	10 18	0 38.47	- 0 37.5	1.870	2.838	5.8	19.5
10 28	0 34.05	+ 9 7.1	1.735	2.674	8.6	19.7	10 28	0 31.20	- 0 40.3	1.932	2.847	9.5	19.7
11 7	0 29.05	+ 8 20.2	1.807	2.681	12.2	20.0	11 7	0 25.79	- 0 31.2	2.018	2.856	12.6	20.0
<b>449242</b>	2013 <i>CR</i> <sub>174</sub>	10 6.3 328°47'	2°5/ 8.6 18				<b>353122</b>	2009 <i>FF</i> <sub>50</sub>	10 6.3 287°94'	8°9/ 27.5 18			
8 29	1 13.39	+13 23.0	1.										

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>265999</b>	2006 <i>DQ</i> <sub>112</sub>	10 6.3 24°13'	2.1°/ 8.2 18				<b>349921</b>	2009 <i>SB</i> <sub>280</sub>	10 6.3 301°46'	1.9°/ 4.4 18			
8 29	1 11.51	+12 12.9	1.925	2.730	15.3	20.1	8 29	1 10.96	+1 41.9	2.140	2.973	13.0	21.0
9 8	1 7.89	+12 19.0	1.851	2.737	12.2	20.0	9 8	1 7.37	+1 11.9	2.047	2.957	10.1	20.8
9 18	1 2.20	+12 10.5	1.798	2.745	8.7	19.8	9 18	1 1.87	+0 33.7	1.976	2.941	6.7	20.5
9 28	0 55.00	+11 48.4	1.769	2.753	4.8	19.5	9 28	0 54.90	-0 9.0	1.931	2.924	3.2	20.3
10 8	0 47.12	+11 16.2	1.766	2.762	2.1	19.4	10 8	0 47.18	-0 51.0	1.914	2.908	2.4	20.2
10 18	0 39.48	+10 38.5	1.792	2.772	4.6	19.6	10 18	0 39.54	-1 27.3	1.925	2.893	5.8	20.4
10 28	0 33.00	+10 1.1	1.844	2.782	8.3	19.8	10 28	0 32.84	-1 53.0	1.964	2.877	9.4	20.6
11 7	0 28.37	+9 29.4	1.921	2.792	11.7	20.1	11 7	0 27.77	-2 4.9	2.026	2.861	12.7	20.8
<b>517463</b>	2014 <i>OU</i> <sub>399</sub>	10 6.3 172°05'	1.5°/ 4.6 18				<b>33203</b>	1998 <i>FA</i> <sub>57</sub>	10 6.3 257°07'	0.3°/ 5.9 18			
8 29	1 10.83	+2 43.2	2.405	3.230	12.0	22.1	8 29	1 11.17	+6 55.9	2.119	2.938	13.6	18.9
9 8	1 6.90	+2 7.7	2.325	3.230	9.2	21.9	9 8	1 7.47	+6 25.7	2.035	2.935	10.6	18.7
9 18	1 1.32	+1 24.3	2.268	3.231	6.1	21.7	9 18	1 1.87	+5 43.5	1.973	2.933	7.1	18.4
9 28	0 54.54	+0 36.8	2.238	3.231	2.8	21.5	9 28	0 54.86	+4 52.6	1.937	2.930	3.2	18.2
10 8	0 47.22	-0 10.3	2.237	3.232	2.0	21.4	10 8	0 47.20	+3 57.9	1.929	2.927	0.9	18.0
10 18	0 40.08	-0 52.4	2.265	3.232	5.1	21.6	10 18	0 39.70	+3 4.8	1.949	2.925	4.9	18.3
10 28	0 33.82	-1 25.1	2.321	3.232	8.3	21.9	10 28	0 33.21	+2 19.1	1.997	2.922	8.6	18.5
11 7	0 29.03	-1 45.5	2.402	3.232	11.1	22.0	11 7	0 28.37	+1 45.1	2.070	2.919	11.9	18.7
<b>220676</b>	2004 <i>RL</i> <sub>217</sub>	10 6.3 310°10'	4.7°/11.8 18				<b>273105</b>	2006 <i>FL</i> <sub>23</sub>	10 6.3 237°36'	2.0°/ 4.2 17			
8 29	1 9.78	+22 35.1	2.235	2.982	15.1	19.8	8 29	1 16.40	-1 37.2	2.773	3.588	10.8	21.7
9 8	1 6.48	+22 32.9	2.142	2.979	12.7	19.6	9 8	1 11.03	-1 45.5	2.677	3.577	8.4	21.5
9 18	1 1.25	+22 10.3	2.067	2.975	10.0	19.4	9 18	1 4.02	-1 57.0	2.606	3.566	5.6	21.3
9 28	0 54.58	+21 27.0	2.016	2.972	7.0	19.2	9 28	0 55.81	-2 8.9	2.563	3.554	2.9	21.1
10 8	0 47.21	+20 25.0	1.991	2.969	4.9	19.1	10 8	0 47.01	-2 18.1	2.550	3.542	2.4	21.0
10 18	0 39.97	+19 8.8	1.994	2.966	5.2	19.1	10 18	0 38.30	-2 21.6	2.568	3.530	5.0	21.2
10 28	0 33.72	+17 45.3	2.025	2.963	7.7	19.2	10 28	0 30.39	-2 17.0	2.615	3.517	7.9	21.4
11 7	0 29.14	+16 22.2	2.083	2.960	10.7	19.4	11 7	0 23.87	-2 2.6	2.689	3.504	10.5	21.5
<b>301579</b>	2009 <i>UC</i> <sub>87</sub>	10 6.3 337°62'	1.4°/ 3.8 18				<b>126657</b>	2002 <i>CZ</i> <sub>202</sub>	10 6.3 99°23'	5.2°/10.9 18			
8 29	1 4.60	+0 2.7	3.872	4.696	7.9	20.1	8 29	1 18.59	+19 54.1	1.861	2.620	17.3	19.9
9 8	1 1.50	-0 25.9	3.786	4.692	6.0	19.9	9 8	1 13.58	+20 28.7	1.788	2.635	14.4	19.7
9 18	0 57.44	-0 58.1	3.725	4.688	3.9	19.8	9 18	1 6.12	+20 43.9	1.733	2.649	11.1	19.5
9 28	0 52.69	-1 31.6	3.692	4.684	2.0	19.6	9 28	0 56.87	+20 38.0	1.702	2.663	7.7	19.3
10 8	0 47.63	-2 3.6	3.689	4.680	1.7	19.6	10 8	0 46.80	+20 12.3	1.697	2.677	5.4	19.2
10 18	0 42.64	-2 31.7	3.716	4.676	3.6	19.7	10 18	0 37.02	+19 30.8	1.720	2.690	6.1	19.3
10 28	0 38.15	-2 53.5	3.771	4.673	5.7	19.9	10 28	0 28.65	+18 40.5	1.770	2.703	8.9	19.5
11 7	0 34.48	-3 7.2	3.853	4.670	7.6	20.0	11 7	0 22.47	+17 49.1	1.845	2.716	12.1	19.7
<b>68862</b>	2002 <i>JU</i> <sub>5</sub>	10 6.3 345°55'	5.2°/ 1.1 18				<b>267096</b>	1999 <i>XZ</i> <sub>139</sub>	10 6.3 308°04'	6.1°/ 1.5 18			
8 29	1 9.48	-2 27.0	1.592	2.452	15.4	19.1	8 29	1 12.39	-4 39.0	1.337	2.205	17.3	20.4
9 8	1 6.71	-4 4.0	1.525	2.450	11.8	18.9	9 8	1 9.65	-5 46.9	1.259	2.187	13.6	20.1
9 18	1 1.61	-5 50.7	1.480	2.448	8.1	18.7	9 18	1 4.02	-7 3.4	1.202	2.170	9.5	19.8
9 28	0 54.80	-7 37.8	1.460	2.446	5.4	18.5	9 28	0 56.08	-8 19.0	1.167	2.153	6.4	19.6
10 8	0 47.20	-9 14.7	1.466	2.445	6.2	18.6	10 8	0 46.94	-9 22.9	1.157	2.137	7.1	19.6
10 18	0 39.86	-10 32.2	1.499	2.443	9.5	18.7	10 18	0 37.94	-10 5.4	1.171	2.121	10.9	19.8
10 28	0 33.84	-11 23.8	1.556	2.442	13.2	19.0	10 28	0 30.49	-10 20.1	1.207	2.105	15.3	20.0
11 7	0 29.87	-11 47.5	1.633	2.442	16.5	19.2	11 7	0 25.60	-10 5.4	1.262	2.090	19.3	20.2
<b>493863</b>	2015 <i>XS</i> <sub>65</sub>	10 6.3 335°69'	3.7°/10.1 17				<b>167836</b>	2005 <i>CT</i> <sub>47</sub>	10 6.3 171°25'	0.2°/ 6.1 18			
8 29	1 8.41	+18 6.7	1.900	2.686	16.1	21.3	8 29	1 13.24	+7 21.7	2.035	2.851	14.2	21.0
9 8	1 5.75	+18 4.7	1.808	2.676	13.3	21.1	9 8	1 9.12	+6 51.5	1.954	2.852	11.1	20.8
9 18	1 0.95	+17 42.3	1.735	2.667	10.0	20.9	9 18	1 2.99	+6 8.7	1.895	2.854	7.5	20.6
9 28	0 54.52	+16 59.8	1.686	2.659	6.5	20.7	9 28	0 55.39	+5 16.6	1.862	2.855	3.4	20.4
10 8	0 47.24	+15 59.9	1.662	2.651	3.9	20.5	10 8	0 47.11	+4 20.2	1.857	2.856	0.9	20.2
10 18	0 40.08	+14 48.1	1.665	2.643	5.1	20.5	10 18	0 39.04	+3 25.3	1.881	2.856	5.0	20.5
10 28	0 34.00	+13 32.2	1.695	2.636	8.6	20.7	10 28	0 32.06	+2 37.9	1.932	2.857	8.9	20.7
11 7	0 29.79	+12 20.3	1.749	2.630	12.1	20.9	11 7	0 26.85	+2 2.6	2.008	2.857	12.3	20.9
<b>398773</b>	2013 <i>AU</i> <sub>95</sub>	10 6.3 239°45'	3.1°/ 3.1 18				<b>324386</b>	2006 <i>RL</i> <sub>95</sub>	10 6.3 56°44'	1.1°/ 6.9 17			
8 29	1 12.39	-1 4.7	2.032	2.871	13.4	20.9	8 29	1 19.18	+8 29.7	1.256	2.091	20.2	20.1
9 8	1 8.47	-1 54.5	1.953	2.866	10.3	20.7	9 8	1 14.67	+8 39.3	1.203	2.109	15.9	19.9
9 18	1 2.56	-2 51.5	1.896	2.861	6.9	20.5	9 18	1 7.11	+8 32.1	1.168	2.127	10.9	19.7
9 28	0 55.18	-3 50.3	1.866	2.856	3.8	20.3	9 28	0 57.34	+8 10.4	1.155	2.146	5.3	19.4
10 8	0 47.12	-4 44.5	1.863	2.851	3.8	20.3	10 8	0 46.73	+7 39.7	1.167	2.165	1.2	19.2
10 18	0 39.24	-5 28.4	1.888	2.845	6.9	20.5	10 18	0 36.74	+7 6.8	1.204	2.185	6.3	19.6
10 28	0 32.42	-5 57.1	1.940	2.839	10.3	20.7	10 28	0 28.72	+6 39.4	1.267	2.204	11.3	19.9
11 7	0 27.34	-6 8.3	2.015	2.834	13.4	20.9	11 7	0 23.52	+6 23.2	1.351	2.224	15.5	20.2
<b>381404</b>	2008 <i>GO</i> <sub>145</sub>	10 6.3 167°95'	0.7°/ 5.6 17				<b>81556</b>	2000 <i>HR</i> <sub>26</sub>	10 6.3 68°72'	1.7°/ 4.7 18			
8 29	1 15.26	+6 51.2	1.903	2.720	15.0	22.1	8 29	1 13.84	+2 27.8	1.873	2.706	14.6	19.6
9 8	1 10.79	+6 7.4	1.825	2.724	11.7	21.9	9 8	1 9.66	+2 0.0	1.804	2.713	11.2	19.4
9 18	1 4.15	+5 10.0	1.768	2.728	7.8	21.7	9 18	1 3.36	+1 23.2	1.756	2.721	7.4	19.2
9 28	0 55.92	+4 2.8	1.738	2.731	3.5	21.4	9 28	0 55.55	+0 41.9	1.735	2.728	3.4	19.0
10 8	0 46.97	+2 52.2	1.736	2.734	1.3	21.3	10 8	0 47.09	+0 1.4	1.740	2.736	2.2	18.9
10 18	0 38.28	+1 45.2	1.762	2.736	5.6	21.6	10 18	0 38.93	-0 32.6	1.774	2.743	6.0	19.2
10 28	0 30.80	+0 48.3	1.816	2.737	9.6	21.8	10 28	0 31.99	-0 55.6	1.834	2.751	9.8	19.5
11 7	0 25.26	+0 6.5	1.895	2.737	13.2	22.0	11 7	0 26.95	-1 4.4	1.918	2.759	13.1	19.7
<b>137939</b>	2000 <i>BW</i> <sub>35</sub>	10 6.3 182°73'	2.8°/ 3.8 18				<b>182913</b>	2002 <i>EM</i> <sub>106</sub>	10 6.3 46°33'	1.3°/ 5.3 18			
8 29	1 16.15	+0 39.6	1.865	2.698	14.6	20.6	8 29	1 19.68	+0 59.2				



EPHEMERIDES

10 6.3

10 6.3

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>342429</b>	2008 <i>UP</i> <sub>87</sub>	10	6.3 334°87	3°4/ 3.7 18			<b>155740</b>	2000 <i>SF</i> <sub>46</sub>	10	6.3 47°50	9°7/14.7 18	R	
8 29	1 10.82	+ 0 22.0	1.387	2.248	17.2	20.2	8 29	1 17.94	+27 44.3	1.461	2.202	22.0	18.5
9 8	1 8.22	- 0 20.4	1.312	2.238	13.3	19.9	9 8	1 13.91	+28 58.4	1.401	2.220	19.1	18.3
9 18	1 2.92	- 1 14.1	1.257	2.227	8.9	19.6	9 18	1 6.78	+29 44.2	1.356	2.239	15.8	18.2
9 28	0 55.52	- 2 12.6	1.225	2.218	4.6	19.4	9 28	0 57.31	+29 56.5	1.331	2.258	12.6	18.0
10 8	0 47.09	- 3 7.2	1.217	2.209	4.1	19.3	10 8	0 46.76	+29 34.3	1.328	2.278	10.2	18.0
10 18	0 38.86	- 3 49.5	1.235	2.201	8.4	19.6	10 18	0 36.65	+28 41.5	1.348	2.298	9.8	18.0
10 28	0 32.10	- 4 12.8	1.276	2.194	13.0	19.8	10 28	0 28.39	+27 27.8	1.392	2.318	11.5	18.1
11 7	0 27.75	- 4 13.9	1.338	2.188	17.1	20.0	11 7	0 22.96	+26 5.2	1.459	2.339	14.2	18.4
<b>435778</b>	2008 <i>UK</i> <sub>300</sub>	10	6.3 275°03	2°0/10.3 18			<b>299632</b>	2006 <i>KU</i> <sub>2</sub>	10	6.3 73°37	0°5/ 6.8 17		
8 29	1 5.20	+17 29.2	4.460	5.205	8.1	21.2	8 29	1 13.73	+10 29.3	1.755	2.568	16.2	21.4
9 8	1 1.91	+17 29.3	4.357	5.200	6.6	21.1	9 8	1 9.59	+9 50.6	1.697	2.592	12.7	21.3
9 18	0 57.70	+17 21.0	4.278	5.195	5.0	21.0	9 18	1 3.29	+8 55.4	1.660	2.616	8.6	21.1
9 28	0 52.84	+17 4.5	4.225	5.190	3.3	20.8	9 28	0 55.50	+7 47.9	1.648	2.639	4.1	20.9
10 8	0 47.66	+16 41.2	4.201	5.185	2.1	20.7	10 8	0 47.16	+6 34.3	1.664	2.662	0.8	20.7
10 18	0 42.53	+16 12.8	4.207	5.180	2.6	20.8	10 18	0 39.26	+5 22.0	1.707	2.686	5.0	21.0
10 28	0 37.83	+15 41.6	4.243	5.175	4.2	20.9	10 28	0 32.73	+4 18.2	1.778	2.708	9.1	21.3
11 7	0 33.89	+15 10.3	4.307	5.170	5.9	21.0	11 7	0 28.19	+3 28.3	1.873	2.731	12.6	21.6
<b>27641</b>	4131 <i>T</i> -1	10	6.3 155°13	0°9/ 5.5 18			<b>64496</b>	2001 <i>VC</i> <sub>64</sub>	10	6.3 216°31	0°2/ 6.5 18		
8 29	1 17.01	+ 5 18.5	1.856	2.676	15.2	19.3	8 29	1 13.18	+ 7 44.6	2.316	3.123	13.0	20.2
9 8	1 12.18	+ 4 49.3	1.782	2.683	11.8	19.1	9 8	1 8.90	+ 7 29.2	2.226	3.118	10.2	20.0
9 18	1 5.10	+ 4 8.3	1.729	2.689	7.9	18.9	9 18	1 2.78	+ 7 3.0	2.159	3.114	6.9	19.8
9 28	0 56.38	+ 3 19.5	1.701	2.694	3.5	18.6	9 28	0 55.31	+ 6 28.3	2.117	3.109	3.3	19.5
10 8	0 46.93	+ 2 28.4	1.702	2.699	1.4	18.5	10 8	0 47.18	+ 5 48.8	2.105	3.104	0.6	19.3
10 18	0 37.77	+ 1 41.2	1.731	2.704	5.7	18.8	10 18	0 39.18	+ 5 8.9	2.121	3.098	4.4	19.6
10 28	0 29.90	+ 1 3.7	1.787	2.708	9.8	19.1	10 28	0 32.11	+ 4 33.5	2.167	3.093	8.0	19.8
11 7	0 24.05	+ 0 39.8	1.868	2.711	13.3	19.3	11 7	0 26.62	+ 4 6.7	2.237	3.087	11.1	20.0
<b>97437</b>	2000 <i>AR</i> <sub>238</sub>	10	6.3 327°00	7°0/13.3 18			<b>400707</b>	2009 <i>RC</i> <sub>39</sub>	10	6.3 252°81	2°9/ 9.8 18		
8 29	1 11.69	+25 37.5	2.060	2.792	16.7	19.1	8 29	1 10.09	+17 25.7	2.411	3.180	13.6	20.9
9 8	1 8.36	+26 19.8	1.963	2.782	14.4	18.9	9 8	1 6.53	+17 15.0	2.316	3.175	11.1	20.7
9 18	1 2.78	+26 41.7	1.885	2.772	11.9	18.7	9 18	1 1.21	+16 48.0	2.241	3.170	8.3	20.5
9 28	0 55.43	+26 40.4	1.828	2.762	9.2	18.5	9 28	0 54.59	+16 5.3	2.192	3.165	5.2	20.3
10 8	0 47.10	+26 15.3	1.795	2.753	7.3	18.4	10 8	0 47.33	+15 9.6	2.170	3.160	3.0	20.2
10 18	0 38.81	+25 29.1	1.788	2.745	7.2	18.4	10 18	0 40.18	+14 5.2	2.177	3.155	4.2	20.3
10 28	0 31.59	+24 27.4	1.808	2.736	9.1	18.5	10 28	0 33.91	+12 58.3	2.213	3.150	7.2	20.4
11 7	0 26.30	+23 18.6	1.852	2.728	11.8	18.6	11 7	0 29.15	+11 54.7	2.275	3.144	10.2	20.6
<b>296327</b>	2009 <i>EN</i> <sub>17</sub>	10	6.3 167°69	3°1/ 9.1 18			<b>227733</b>	2006 <i>FK</i> <sub>14</sub>	10	6.3 217°87	0°7/ 5.4 18		
8 29	1 18.27	+14 45.9	2.281	3.050	14.3	21.4	8 29	1 11.39	+ 4 28.4	2.715	3.528	11.1	21.1
9 8	1 12.92	+15 11.8	2.192	3.053	11.6	21.2	9 8	1 7.21	+ 4 6.1	2.625	3.522	8.6	20.9
9 18	1 5.52	+15 24.4	2.125	3.056	8.5	21.0	9 18	1 1.50	+ 3 36.1	2.558	3.517	5.7	20.7
9 28	0 56.58	+15 23.4	2.084	3.058	5.3	20.9	9 28	0 54.68	+ 3 1.1	2.518	3.512	2.6	20.5
10 8	0 46.89	+15 10.3	2.070	3.060	3.1	20.7	10 8	0 47.32	+ 2 24.6	2.508	3.506	1.1	20.4
10 18	0 37.34	+14 48.0	2.086	3.062	4.6	20.8	10 18	0 40.08	+ 1 50.5	2.528	3.500	4.2	20.6
10 28	0 28.84	+14 21.2	2.131	3.063	7.7	21.0	10 28	0 33.60	+ 1 22.4	2.576	3.493	7.3	20.8
11 7	0 22.12	+13 55.0	2.202	3.064	10.8	21.2	11 7	0 28.44	+ 1 3.3	2.651	3.487	10.0	21.0
<b>161990</b>	1981 <i>EY</i> <sub>29</sub>	10	6.3 209°88	1°1/ 5.1 18			<b>190531</b>	2000 <i>QS</i> <sub>194</sub>	10	6.3 48°48	4°2/ 9.8 18		
8 29	1 13.34	+ 5 17.4	2.261	3.076	13.0	21.7	8 29	1 14.16	+17 1.1	1.466	2.267	19.4	20.1
9 8	1 9.05	+ 4 32.1	2.170	3.070	10.1	21.5	9 8	1 10.63	+17 12.9	1.400	2.278	15.9	19.9
9 18	1 2.90	+ 3 35.5	2.103	3.063	6.7	21.2	9 18	1 4.39	+17 1.7	1.353	2.291	11.7	19.7
9 28	0 55.36	+ 2 31.4	2.062	3.055	3.0	21.0	9 28	0 56.15	+16 27.7	1.327	2.303	7.4	19.5
10 8	0 47.14	+ 1 25.2	2.050	3.047	1.6	20.9	10 8	0 47.02	+15 34.5	1.326	2.316	4.3	19.3
10 18	0 39.05	+ 0 22.7	2.068	3.038	5.2	21.1	10 18	0 38.29	+14 29.2	1.350	2.330	5.9	19.5
10 28	0 31.92	- 0 30.4	2.115	3.029	8.8	21.3	10 28	0 31.16	+13 21.1	1.400	2.343	9.9	19.7
11 7	0 26.39	- 1 10.0	2.186	3.019	12.0	21.5	11 7	0 26.49	+12 19.4	1.474	2.357	13.9	20.0
<b>66136</b>	1998 <i>SN</i> <sub>133</sub>	10	6.3 307°80	0°8/ 7.1 18			<b>4810</b>	Ruslanova	10	6.3 189°53	3°2/ 3.9 18		
8 29	1 9.01	+10 17.1	2.056	2.869	14.2	19.3	8 29	1 19.46	- 0 47.2	1.631	2.469	16.2	17.2
9 8	1 6.07	+ 9 52.8	1.953	2.847	11.3	19.0	9 8	1 14.46	- 1 20.7	1.557	2.469	12.6	17.0
9 18	1 1.12	+ 9 13.4	1.871	2.825	7.8	18.8	9 18	1 6.85	- 2 2.0	1.503	2.468	8.4	16.7
9 28	0 54.62	+ 8 20.9	1.813	2.804	3.9	18.5	9 28	0 57.28	- 2 45.3	1.475	2.466	4.4	16.5
10 8	0 47.28	+ 7 19.5	1.784	2.782	0.9	18.2	10 8	0 46.79	- 3 23.9	1.474	2.465	3.8	16.5
10 18	0 39.95	+ 6 15.1	1.782	2.761	4.8	18.5	10 18	0 36.60	- 3 51.3	1.500	2.462	7.7	16.7
10 28	0 33.55	+ 5 14.6	1.807	2.740	8.8	18.7	10 28	0 27.90	- 4 2.7	1.551	2.459	11.9	16.9
11 7	0 28.84	+ 4 24.0	1.857	2.719	12.5	18.9	11 7	0 21.52	- 3 56.0	1.626	2.456	15.6	17.2
<b>283808</b>	2003 <i>SN</i> <sub>143</sub>	10	6.3 346°33	2°4/ 8.0 18			<b>240987</b>	2006 <i>KH</i> <sub>41</sub>	10	6.3 241°81	2°8/ 9.3 18		
8 29	1 12.40	+11 9.9	1.418	2.247	18.6	20.5	8 29	1 12.02	+17 10.7	2.064	2.841	15.3	20.8
9 8	1 9.53	+11 30.9	1.338	2.239	15.0	20.2	9 8	1 8.40	+16 46.3	1.964	2.830	12.5	20.6
9 18	1 3.86	+11 34.8	1.277	2.232	10.7	19.9	9 18	1 2.67	+16 1.7	1.884	2.818	9.2	20.3
9 28	0 56.00	+11 22.1	1.239	2.226	5.9	19.7	9 28	0 55.34	+14 57.8	1.829	2.806	5.6	20.1
10 8	0 47.00	+10 56.1	1.224	2.221	2.4	19.4	10 8	0 47.18	+13 38.3	1.801	2.794	2.9	19.9
10 18	0 38.16	+10 22.3	1.235	2.217	5.9	19.7	10 18	0 39.10	+12 9.2	1.802	2.781	4.7	20.0
10 28	0 30.82	+ 9 48.4	1.271	2.213	10.7	19.9	10 28	0 32.07	+10 38.7	1.831	2.768	8.4	20.2
11 7	0 25.96	+ 9 21.7	1.328	2.211	15.1	20.2	11 7	0 26.83	+ 9 14.9	1.886	2.755	12.0	20.4
<b>483890</b>	2005 <i>YQ</i> <sub>292</sub>	10	6.3 272°01	4°0/10.8 17			<b>478662</b>	2012 <i>TH</i> <sub>255</sub>	10	6.3 19°29	1°9/ 7.6 18		
8 29	1 11.23	+20 2.9	2.343	3.098									

EPHEMERIDES

10 6.3

10 6.3

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>319244</b>	2006 <i>AY</i> <sub>48</sub>	10	6.3 191°08	1°1/ 4.9 18			<b>173610</b>	2001 <i>FL</i> <sub>3</sub>	10	6.3 209°47	0°5/ 5.9 18		
8 29	1 10.90	+ 3 54.4	2.586	3.403	11.5	21.5	8 29	1 17.67	+ 6 3.3	1.878	2.694	15.2	20.9
9 8	1 6.89	+ 3 19.7	2.501	3.402	8.9	21.3	9 8	1 12.86	+ 5 41.1	1.790	2.688	11.9	20.6
9 18	1 1.30	+ 2 36.8	2.440	3.401	5.9	21.2	9 18	1 5.70	+ 5 6.6	1.723	2.682	8.0	20.4
9 28	0 54.59	+ 1 49.0	2.406	3.399	2.6	20.9	9 28	0 56.76	+ 4 23.0	1.682	2.675	3.7	20.1
10 8	0 47.36	+ 1 0.5	2.401	3.397	1.5	20.9	10 8	0 46.92	+ 3 35.2	1.669	2.667	1.1	19.9
10 18	0 40.27	+ 0 15.8	2.426	3.395	4.6	21.1	10 18	0 37.24	+ 2 49.3	1.685	2.659	5.6	20.2
10 28	0 34.00	- 0 21.0	2.479	3.393	7.7	21.3	10 28	0 28.77	+ 2 11.4	1.728	2.650	9.9	20.4
11 7	0 29.09	- 0 46.8	2.558	3.390	10.5	21.5	11 7	0 22.34	+ 1 46.2	1.795	2.641	13.6	20.7
<b>158124</b>	2001 <i>DL</i> <sub>61</sub>	10	6.3 187°31	0°2/ 6.5 18			<b>142342</b>	2002 <i>RR</i> <sub>203</sub>	10	6.3 4°36	3°6/ 8.5 18		
8 29	1 11.46	+ 8 6.6	2.895	3.692	10.9	21.1	8 29	1 15.06	+ 12 25.3	1.211	2.043	20.9	19.5
9 8	1 7.16	+ 7 44.1	2.804	3.691	8.5	21.0	9 8	1 12.02	+ 13 2.0	1.142	2.043	17.0	19.2
9 18	1 1.41	+ 7 12.5	2.737	3.690	5.8	20.8	9 18	1 5.75	+ 13 19.2	1.090	2.043	12.3	19.0
9 28	0 54.63	+ 6 33.7	2.698	3.688	2.7	20.6	9 28	0 56.95	+ 13 16.1	1.059	2.044	7.2	18.7
10 8	0 47.35	+ 5 51.0	2.688	3.686	0.5	20.4	10 8	0 46.88	+ 12 55.4	1.050	2.045	3.6	18.5
10 18	0 40.20	+ 5 8.1	2.708	3.684	3.6	20.6	10 18	0 37.10	+ 12 23.0	1.066	2.048	6.6	18.7
10 28	0 33.78	+ 4 29.0	2.758	3.681	6.6	20.8	10 28	0 29.17	+ 11 47.7	1.106	2.052	11.6	19.0
11 7	0 28.61	+ 3 57.0	2.835	3.678	9.3	21.0	11 7	0 24.15	+ 11 18.3	1.167	2.056	16.3	19.3
<b>298094</b>	2002 <i>RM</i> <sub>58</sub>	10	6.3 50°80	0°1/ 6.4 18			<b>225740</b>	2001 <i>SK</i> <sub>15</sub>	10	6.3 330°72	0°3/ 6.5 18		
8 29	1 11.51	+ 10 25.3	1.516	2.344	17.6	20.3	8 29	1 15.62	+ 6 21.9	1.398	2.237	18.3	19.9
9 8	1 8.17	+ 9 30.5	1.464	2.368	13.7	20.1	9 8	1 12.06	+ 6 30.5	1.319	2.229	14.5	19.7
9 18	1 2.47	+ 8 16.9	1.433	2.393	9.2	19.9	9 18	1 5.59	+ 6 25.8	1.259	2.221	9.9	19.4
9 28	0 55.16	+ 6 49.8	1.425	2.418	4.3	19.7	9 28	0 56.84	+ 6 9.9	1.221	2.214	4.7	19.1
10 8	0 47.26	+ 5 17.6	1.444	2.443	0.8	19.5	10 8	0 46.90	+ 5 47.5	1.209	2.208	0.9	18.8
10 18	0 39.87	+ 3 49.7	1.490	2.468	5.7	19.9	10 18	0 37.15	+ 5 24.5	1.222	2.202	6.4	19.1
10 28	0 33.98	+ 2 34.5	1.562	2.494	10.0	20.2	10 28	0 28.96	+ 5 7.5	1.260	2.196	11.5	19.4
11 7	0 30.23	+ 1 37.8	1.657	2.519	13.8	20.5	11 7	0 23.35	+ 5 2.0	1.320	2.192	16.0	19.7
<b>366360</b>	2000 <i>AN</i> <sub>217</sub>	10	6.3 142°87	8°1/20.5 18			<b>61198</b>	2000 <i>ON</i> <sub>3</sub>	10	6.3 93°94	2°2/ 4.5 18		
8 29	1 15.72	+ 40 52.1	3.257	3.823	13.6	21.9	8 29	1 16.01	+ 4 46.3	1.384	2.227	18.2	18.7
9 8	1 10.74	+ 41 30.9	3.167	3.834	12.4	21.8	9 8	1 11.93	+ 3 40.9	1.328	2.244	14.0	18.5
9 18	1 3.96	+ 41 50.3	3.093	3.845	11.1	21.7	9 18	1 5.15	+ 2 19.9	1.293	2.260	9.2	18.2
9 28	0 55.85	+ 41 47.4	3.039	3.855	9.8	21.6	9 28	0 56.45	+ 0 50.8	1.282	2.276	4.2	18.0
10 8	0 47.10	+ 41 21.4	3.007	3.864	8.6	21.5	10 8	0 47.02	- 0 36.6	1.297	2.292	2.9	18.0
10 18	0 38.50	+ 40 33.2	3.001	3.873	8.1	21.5	10 18	0 38.12	- 1 52.6	1.338	2.308	7.5	18.3
10 28	0 30.83	+ 39 26.5	3.020	3.882	8.3	21.5	10 28	0 30.93	- 2 49.2	1.405	2.323	12.1	18.6
11 7	0 24.73	+ 38 7.0	3.065	3.890	9.1	21.6	11 7	0 26.21	- 3 22.7	1.493	2.338	15.9	18.9
<b>92078</b>	1999 <i>XF</i> <sub>10</sub>	10	6.3 323°13	5°1/11.5 18			<b>21370</b>	1997 <i>TB</i> <sub>28</sub>	10	6.3 251°35	1°6/ 3.0 18		
8 29	1 10.93	+ 21 10.9	2.028	2.789	16.1	19.0	8 29	1 4.48	- 2 28.9	4.528	5.352	6.8	18.9
9 8	1 7.68	+ 21 32.5	1.933	2.779	13.6	18.8	9 8	1 1.29	- 2 56.6	4.442	5.347	5.2	18.8
9 18	1 2.27	+ 21 34.7	1.856	2.770	10.6	18.6	9 18	0 57.26	- 3 26.4	4.381	5.342	3.5	18.7
9 28	0 55.19	+ 21 16.1	1.803	2.761	7.6	18.4	9 28	0 52.66	- 3 56.2	4.349	5.337	1.9	18.6
10 8	0 47.22	+ 20 37.9	1.774	2.752	5.4	18.3	10 8	0 47.79	- 4 23.8	4.347	5.332	1.9	18.6
10 18	0 39.32	+ 19 43.6	1.773	2.744	5.8	18.3	10 18	0 42.98	- 4 47.0	4.375	5.327	3.5	18.7
10 28	0 32.47	+ 18 39.9	1.798	2.736	8.5	18.4	10 28	0 38.59	- 5 4.0	4.432	5.322	5.2	18.8
11 7	0 27.48	+ 17 34.6	1.849	2.728	11.7	18.6	11 7	0 34.90	- 5 13.4	4.515	5.317	6.8	18.9
<b>28690</b>	Beshellem	10	6.3 355°44	1°9/ 5.0 18			<b>370679</b>	2004 <i>ED</i> <sub>72</sub>	10	6.3 234°96	2°0/ 3.5 18		
8 29	1 9.39	+ 3 18.7	1.100	1.973	19.9	17.5	8 29	1 7.64	+ 1 39.0	2.831	3.657	10.4	20.9
9 8	1 7.69	+ 3 0.4	1.035	1.966	15.5	17.2	9 8	1 4.27	+ 0 38.7	2.743	3.651	7.9	20.8
9 18	1 2.86	+ 2 27.3	0.989	1.962	10.3	16.9	9 18	0 59.52	- 0 29.0	2.681	3.645	5.2	20.6
9 28	0 55.59	+ 1 45.0	0.963	1.958	4.7	16.6	9 28	0 53.77	- 1 40.1	2.646	3.638	2.6	20.4
10 8	0 47.15	+ 1 1.8	0.959	1.956	2.7	16.4	10 8	0 47.56	- 2 49.7	2.642	3.632	2.4	20.4
10 18	0 39.03	+ 0 26.7	0.979	1.956	8.1	16.8	10 18	0 41.46	- 3 53.1	2.667	3.626	5.0	20.5
10 28	0 32.72	+ 0 7.6	1.021	1.957	13.5	17.1	10 28	0 36.05	- 4 45.9	2.720	3.619	7.7	20.7
11 7	0 29.23	+ 0 9.0	1.082	1.960	18.2	17.4	11 7	0 31.82	- 5 25.4	2.799	3.612	10.2	20.9
<b>331</b>	Etheridgea	10	6.3 12°79	0°5/ 5.8 18			<b>298246</b>	2002 <i>VW</i> <sub>50</sub>	10	6.3 3°74	8°6/30.2 18		
8 29	1 13.00	+ 4 52.6	1.909	2.737	14.6	14.0	8 29	1 10.75	- 11 21.2	1.238	2.118	17.6	19.5
9 8	1 9.07	+ 4 43.6	1.833	2.739	11.3	13.8	9 8	1 8.29	- 12 24.5	1.187	2.117	14.1	19.3
9 18	1 3.04	+ 4 24.6	1.779	2.741	7.6	13.6	9 18	1 2.95	- 13 25.5	1.155	2.117	10.7	19.1
9 28	0 55.47	+ 3 58.8	1.749	2.743	3.4	13.4	9 28	0 55.52	- 14 13.5	1.145	2.119	8.7	19.0
10 8	0 47.19	+ 3 30.4	1.747	2.746	1.1	13.2	10 8	0 47.21	- 14 38.8	1.157	2.122	9.5	19.1
10 18	0 39.14	+ 3 4.4	1.773	2.749	5.3	13.5	10 18	0 39.39	- 14 35.4	1.193	2.127	12.5	19.3
10 28	0 32.25	+ 2 45.4	1.826	2.752	9.2	13.7	10 28	0 33.29	- 14 1.9	1.249	2.133	16.0	19.5
11 7	0 27.22	+ 2 37.1	1.903	2.756	12.6	14.0	11 7	0 29.75	- 13 0.9	1.324	2.141	19.2	19.7
<b>516166</b>	2016 <i>NT</i> <sub>71</sub>	10	6.3 351°36	8°6/14.2 18			<b>8903</b>	Paulcruikshank	10	6.3 8°16	1°2/ 7.5 18		
8 29	1 14.48	+ 27 37.1	1.704	2.436	19.7	20.5	8 29	1 5.80	+ 14 32.2	1.369	2.200	19.0	17.1
9 8	1 11.02	+ 28 29.4	1.620	2.435	17.1	20.3	9 8	1 4.30	+ 13 30.0	1.298	2.201	15.2	16.8
9 18	1 4.83	+ 28 56.6	1.552	2.434	14.2	20.1	9 18	1 0.25	+ 11 59.7	1.245	2.203	10.6	16.6
9 28	0 56.47	+ 28 54.3	1.504	2.433	11.3	19.9	9 28	0 54.29	+ 10 5.8	1.215	2.205	5.4	16.3
10 8	0 46.96	+ 28 21.4	1.479	2.432	9.1	19.8	10 8	0 47.46	+ 7 57.8	1.211	2.209	1.3	16.0
10 18	0 37.58	+ 27 21.0	1.479	2.432	8.8	19.8	10 18	0 40.93	+ 5 48.4	1.232	2.214	5.9	16.3
10 28	0 29.64	+ 26 1.0	1.503	2.432	10.6	19.9	10 28	0 35.87	+ 3 50.6	1.279	2.219	10.9	16.6
11 7	0 24.12	+ 24 32.4	1.552	2.432	13.5	20.1	11 7	0 33.06	+ 2 14.5	1.348	2.226	15.3	16.9
<b>452032</b>	2014 <i>OO</i> <sub>165</sub>	10	6.3 355°32	0°6/ 5.7 18			<b>365366</b>	2009 <i>TU</i> <sub>23</sub>	10	6.3 50°63	0°5/ 5.8 18		
8 29	1 12.79	+ 4 56.3											

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>224765</b>	2006 EQ <sub>56</sub>	10	6.3 338°88	0°6/ 5.6 18			<b>192463</b>	1998 FU <sub>4</sub>	10	6.3 126°93	0°4/ 6.7 17		
8 29	1 7.76	+ 7 26.0	2.033	2.859	13.8	20.3	8 29	1 13.49	+10 18.7	2.003	2.808	14.7	21.0
9 8	1 4.96	+ 6 36.3	1.949	2.854	10.8	20.1	9 8	1 9.30	+ 9 36.5	1.929	2.820	11.6	20.8
9 18	1 0.29	+ 5 32.5	1.887	2.849	7.2	19.9	9 18	1 3.11	+ 8 39.0	1.878	2.832	7.9	20.6
9 28	0 54.22	+ 4 18.7	1.851	2.844	3.2	19.6	9 28	0 55.49	+ 7 29.6	1.852	2.843	3.8	20.4
10 8	0 47.50	+ 3 0.9	1.842	2.840	1.2	19.5	10 8	0 47.27	+ 6 13.9	1.854	2.853	0.7	20.1
10 18	0 40.93	+ 1 45.9	1.861	2.836	5.2	19.7	10 18	0 39.34	+ 4 58.8	1.886	2.863	4.8	20.5
10 28	0 35.34	+ 0 40.5	1.908	2.832	9.0	20.0	10 28	0 32.57	+ 3 51.0	1.945	2.873	8.6	20.7
11 7	0 31.39	- 0 10.3	1.979	2.829	12.4	20.2	11 7	0 27.60	+ 2 56.1	2.030	2.882	12.0	21.0
<b>225623</b>	2001 BS <sub>16</sub>	10	6.3 283°23	5°1/25.3 18			<b>278246</b>	2007 EP <sub>155</sub>	10	6.3 124°59	1°9/ 8.2 17		
8 29	1 5.28	-21 21.7	4.307	5.131	7.1	19.5	8 29	1 13.92	+13 46.7	1.789	2.589	16.5	21.0
9 8	1 2.01	-22 14.6	4.245	5.125	6.0	19.5	9 8	1 9.97	+13 22.7	1.713	2.596	13.2	20.8
9 18	0 57.79	-23 2.8	4.209	5.118	5.3	19.4	9 18	1 3.74	+12 39.7	1.657	2.604	9.3	20.6
9 28	0 52.93	-23 43.0	4.199	5.112	5.1	19.4	9 28	0 55.84	+11 39.7	1.626	2.611	5.1	20.4
10 8	0 47.77	-24 12.2	4.217	5.106	5.6	19.4	10 8	0 47.20	+10 27.8	1.621	2.618	1.9	20.2
10 18	0 42.71	-24 28.6	4.261	5.100	6.6	19.5	10 18	0 38.83	+ 9 11.2	1.645	2.625	4.9	20.4
10 28	0 38.13	-24 31.1	4.329	5.093	7.8	19.6	10 28	0 31.77	+ 7 58.0	1.695	2.631	9.1	20.7
11 7	0 34.37	-24 19.7	4.420	5.087	8.9	19.7	11 7	0 26.74	+ 6 55.4	1.771	2.637	12.8	20.9
<b>134092</b>	Lindaleematthias	10	6.3 244°06	7°1/17.3 17			<b>424427</b>	2008 BW <sub>33</sub>	10	6.3 221°89	2°7/ 3.8 17		
8 29	1 12.70	+35 28.6	3.091	3.714	13.5	21.2	8 29	1 15.91	+ 1 31.8	1.836	2.668	14.8	22.1
9 8	1 8.51	+35 47.7	2.973	3.697	12.1	21.0	9 8	1 11.55	+ 0 36.9	1.750	2.659	11.5	21.8
9 18	1 2.56	+35 47.6	2.872	3.680	10.5	20.9	9 18	1 4.87	- 0 29.0	1.685	2.650	7.7	21.6
9 28	0 55.28	+35 25.7	2.793	3.663	8.9	20.8	9 28	0 56.42	- 1 40.5	1.647	2.639	3.8	21.3
10 8	0 47.28	+34 41.4	2.738	3.645	7.6	20.6	10 8	0 47.07	- 2 50.1	1.636	2.628	3.4	21.3
10 18	0 39.30	+33 35.9	2.709	3.626	7.1	20.6	10 18	0 37.86	- 3 50.5	1.654	2.616	7.1	21.5
10 28	0 32.12	+32 13.4	2.709	3.607	7.8	20.6	10 28	0 29.86	- 4 35.2	1.698	2.604	11.2	21.7
11 7	0 26.38	+30 40.3	2.735	3.588	9.2	20.7	11 7	0 23.87	- 5 0.5	1.766	2.591	14.8	21.9
<b>51056</b>	2000 GP <sub>140</sub>	10	6.3 3°20	5°3/ 2.9 18			<b>513184</b>	2005 EB <sub>134</sub>	10	6.3 210°16	0°1/ 6.4 18		
8 29	1 15.63	- 6 41.6	1.384	2.247	17.1	17.3	8 29	1 11.73	+ 9 53.5	2.345	3.146	13.0	22.3
9 8	1 11.83	- 6 58.9	1.322	2.245	13.4	17.0	9 8	1 7.79	+ 9 2.2	2.251	3.140	10.2	22.1
9 18	1 5.23	- 7 17.1	1.279	2.245	9.3	16.8	9 18	1 2.07	+ 7 56.3	2.180	3.134	6.9	21.9
9 28	0 56.58	- 7 29.4	1.260	2.247	5.9	16.6	9 28	0 55.03	+ 6 39.1	2.135	3.127	3.3	21.6
10 8	0 47.03	- 7 29.2	1.265	2.249	5.9	16.6	10 8	0 47.36	+ 5 15.8	2.120	3.119	0.6	21.4
10 18	0 37.90	- 7 11.9	1.295	2.252	9.3	16.8	10 18	0 39.80	+ 3 52.4	2.135	3.111	4.5	21.7
10 28	0 30.44	- 6 35.2	1.349	2.257	13.3	17.1	10 28	0 33.16	+ 2 35.8	2.179	3.102	8.1	21.9
11 7	0 25.48	- 5 40.1	1.424	2.262	17.0	17.3	11 7	0 28.04	+ 1 31.2	2.249	3.093	11.3	22.1
<b>422671</b>	1999 VA <sub>77</sub>	10	6.3 228°57	4°6/ 2.7 18			<b>261469</b>	2005 VJ <sub>108</sub>	10	6.3 187°93	1°5/ 8.0 18		
8 29	1 17.37	- 3 49.4	1.588	2.436	16.0	21.4	8 29	1 10.26	+13 14.7	2.259	3.052	13.7	21.4
9 8	1 12.94	- 4 35.5	1.515	2.432	12.5	21.2	9 8	1 6.71	+12 46.8	2.172	3.052	10.9	21.2
9 18	1 5.90	- 5 27.5	1.463	2.428	8.6	20.9	9 18	1 1.37	+12 3.3	2.106	3.052	7.7	21.0
9 28	0 56.89	- 6 18.3	1.436	2.423	5.2	20.7	9 28	0 54.71	+11 6.4	2.066	3.051	4.2	20.8
10 8	0 46.96	- 7 0.0	1.435	2.419	5.3	20.7	10 8	0 47.43	+10 0.1	2.054	3.051	1.5	20.6
10 18	0 37.32	- 7 25.9	1.460	2.414	8.8	20.9	10 18	0 40.31	+ 8 50.0	2.071	3.050	4.1	20.8
10 28	0 29.14	- 7 31.6	1.511	2.409	12.8	21.2	10 28	0 34.14	+ 7 42.2	2.116	3.050	7.7	21.0
11 7	0 23.28	- 7 15.9	1.583	2.404	16.4	21.4	11 7	0 29.54	+ 6 42.7	2.187	3.049	10.9	21.2
<b>53434</b>	1999 VD <sub>25</sub>	10	6.3 32°82	10°5/28.2 18			<b>72196</b>	2000 YO <sub>128</sub>	10	6.3 340°67	6°9/ 1.4 18		
8 29	1 17.62	-19 28.2	1.531	2.383	16.3	16.9	8 29	1 13.42	- 6 8.3	1.213	2.087	18.3	18.2
9 8	1 13.03	-20 39.0	1.488	2.390	13.7	16.7	9 8	1 10.57	- 7 15.8	1.151	2.081	14.4	17.9
9 18	1 5.80	-21 39.3	1.465	2.397	11.5	16.6	9 18	1 4.66	- 8 28.8	1.107	2.076	10.2	17.7
9 28	0 56.74	-22 19.0	1.465	2.405	10.5	16.6	9 28	0 56.41	- 9 37.0	1.086	2.071	7.2	17.5
10 8	0 47.02	-22 30.5	1.488	2.414	11.4	16.7	10 8	0 47.08	-10 29.0	1.089	2.066	7.9	17.5
10 18	0 37.90	-22 10.3	1.535	2.423	13.4	16.8	10 18	0 38.11	-10 56.1	1.114	2.063	11.6	17.7
10 28	0 30.48	-21 19.2	1.603	2.432	15.9	17.0	10 28	0 30.91	-10 53.6	1.162	2.060	15.8	18.0
11 7	0 25.49	-20 1.9	1.690	2.442	18.3	17.2	11 7	0 26.46	-10 22.0	1.228	2.058	19.6	18.2
<b>20128</b>	1996 AK	10	6.3 52°50	6°4/30.8 18 R			<b>405770</b>	2005 YV <sub>224</sub>	10	6.3 46°84	4°9/ 1.1 18		
8 29	1 16.29	-11 56.3	1.908	2.753	13.9	17.8	8 29	1 11.99	- 7 27.7	2.136	2.982	12.6	20.6
9 8	1 11.40	-12 39.6	1.857	2.767	11.0	17.6	9 8	1 8.02	- 8 23.2	2.070	2.984	9.8	20.4
9 18	1 4.43	-13 19.8	1.829	2.781	8.2	17.5	9 18	1 2.20	- 9 20.1	2.027	2.986	7.0	20.2
9 28	0 56.05	-13 50.0	1.827	2.796	6.5	17.4	9 28	0 55.07	-10 12.5	2.010	2.989	5.1	20.1
10 8	0 47.16	-14 4.7	1.851	2.811	7.0	17.5	10 8	0 47.37	-10 54.3	2.021	2.992	5.6	20.2
10 18	0 38.73	-14 0.4	1.902	2.826	9.2	17.7	10 18	0 39.92	-11 20.7	2.059	2.994	8.0	20.3
10 28	0 31.63	-13 35.8	1.977	2.841	11.9	17.9	10 28	0 33.52	-11 28.9	2.123	2.997	10.8	20.5
11 7	0 26.46	-12 52.5	2.075	2.856	14.4	18.1	11 7	0 28.77	-11 18.3	2.210	3.000	13.3	20.7
<b>168668</b>	2000 EK <sub>149</sub>	10	6.3 183°14	2°7/ 3.6 18			<b>387953</b>	2005 EP <sub>327</sub>	10	6.3 134°29	1°1/ 7.2 18		
8 29	1 12.37	+ 0 41.3	2.009	2.845	13.6	20.3	8 29	1 18.14	+ 8 52.4	2.117	2.915	14.3	21.4
9 8	1 8.48	- 0 11.1	1.933	2.845	10.5	20.1	9 8	1 12.85	+ 9 1.3	2.038	2.923	11.3	21.2
9 18	1 2.60	- 1 11.9	1.880	2.845	6.9	19.9	9 18	1 5.49	+ 8 59.2	1.981	2.931	7.8	21.0
9 28	0 55.28	- 2 16.1	1.853	2.845	3.6	19.6	9 28	0 56.62	+ 8 47.5	1.950	2.938	4.0	20.8
10 8	0 47.30	- 3 17.0	1.854	2.845	3.3	19.6	10 8	0 47.06	+ 8 29.0	1.947	2.945	1.1	20.6
10 18	0 39.54	- 4 8.6	1.883	2.844	6.5	19.8	10 18	0 37.74	+ 8 7.5	1.973	2.952	4.5	20.8
10 28	0 32.86	- 4 45.8	1.939	2.843	10.1	20.1	10 28	0 29.56	+ 7 47.7	2.029	2.958	8.2	21.1
11 7	0 27.93	- 5 5.7	2.019	2.843	13.2	20.3	11 7	0 23.23	+ 7 33.7	2.110	2.964	11.5	21.3
<b>108556</b>	2001 LD <sub>14</sub>	10	6.3 107°17	3°3/ 3.4 18			<b>161736</b>	2006 SA <sub>121</sub>	10	6.3 60°96	4°4/ 3.4 18		
8 29	1 16.63	+ 0 13.2											

EPHEMERIDES

10 6.3

10 6.3

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>178489</b>	1999 <i>TQ</i> <sub>76</sub>	10 6.3 66°60'	3.7/ 4.2	18			<b>18199</b>	2583 <i>P-L</i>	10 6.3 60°87'	1.1/ 5.2	18		
8 29	1 22.46	- 2 47.9	1.360	2.207	18.3	19.8	8 29	1 12.79	+ 4 8.8	1.973	2.801	14.1	18.8
9 8	1 17.04	- 2 57.2	1.303	2.219	14.2	19.6	9 8	1 8.80	+ 3 42.3	1.902	2.808	10.9	18.6
9 18	1 8.65	- 3 11.0	1.266	2.231	9.5	19.4	9 18	1 2.81	+ 3 6.0	1.853	2.815	7.2	18.4
9 28	0 58.13	- 3 23.7	1.253	2.244	5.0	19.2	9 28	0 55.39	+ 2 23.7	1.829	2.823	3.3	18.2
10 8	0 46.78	- 3 29.0	1.265	2.256	4.2	19.2	10 8	0 47.35	+ 1 40.5	1.833	2.831	1.6	18.1
10 18	0 36.02	- 3 22.2	1.304	2.269	8.2	19.4	10 18	0 39.57	+ 1 1.7	1.866	2.838	5.4	18.4
10 28	0 27.17	- 3 0.3	1.367	2.282	12.6	19.7	10 28	0 32.93	+ 0 32.4	1.925	2.846	9.1	18.6
11 7	0 21.07	- 2 22.7	1.453	2.294	16.5	20.0	11 7	0 28.08	+ 0 15.9	2.009	2.854	12.4	18.8
<b>422852</b>	2002 <i>JC</i> <sub>14</sub>	10 6.3 235°87'	8.1/30.8	18			<b>137694</b>	1999 <i>XW</i> <sub>64</sub>	10 6.3 339°31'	1.6/ 7.5	18		
8 29	1 27.68	-15 13.2	1.798	2.624	15.4	21.7	8 29	1 8.54	+10 58.8	1.144	1.996	20.7	19.8
9 8	1 20.86	-15 54.9	1.715	2.609	12.6	21.5	9 8	1 7.14	+10 54.0	1.068	1.983	16.6	19.5
9 18	1 11.20	-16 31.5	1.655	2.594	9.9	21.3	9 18	1 2.64	+10 25.9	1.009	1.972	11.7	19.2
9 28	0 59.38	-16 54.5	1.619	2.578	8.2	21.2	9 28	0 55.63	+ 9 36.3	0.971	1.962	6.1	18.9
10 8	0 46.51	-16 56.4	1.612	2.562	8.7	21.2	10 8	0 47.27	+ 8 31.5	0.955	1.953	1.7	18.6
10 18	0 33.88	-16 32.8	1.631	2.544	11.2	21.3	10 18	0 39.08	+ 7 21.1	0.962	1.945	6.7	18.9
10 28	0 22.80	-15 42.7	1.676	2.526	14.4	21.4	10 28	0 32.58	+ 6 16.7	0.992	1.939	12.5	19.2
11 7	0 14.22	-14 29.2	1.743	2.507	17.4	21.6	11 7	0 28.91	+ 5 28.0	1.042	1.933	17.5	19.4
<b>188149</b>	2002 <i>FU</i> <sub>30</sub>	10 6.3 200°84'	4.3/ 1.7	18			<b>508099</b>	2015 <i>DD</i> <sub>146</sub>	10 6.3 199°67'	0.9/ 7.1	17		
8 29	1 13.43	- 6 52.7	2.320	3.158	12.0	20.4	8 29	1 15.45	+10 49.7	1.651	2.465	17.1	22.3
9 8	1 9.01	- 7 37.2	2.246	3.156	9.3	20.3	9 8	1 11.46	+10 22.7	1.569	2.463	13.6	22.0
9 18	1 2.82	- 8 23.3	2.196	3.155	6.6	20.1	9 18	1 4.95	+ 9 37.2	1.506	2.460	9.4	21.8
9 28	0 55.36	- 9 5.9	2.173	3.153	4.5	20.0	9 28	0 56.51	+ 8 35.9	1.468	2.458	4.7	21.5
10 8	0 47.33	- 9 39.6	2.178	3.152	4.9	20.0	10 8	0 47.12	+ 7 24.4	1.456	2.454	1.0	21.2
10 18	0 39.51	-10 0.1	2.211	3.150	7.3	20.1	10 18	0 37.94	+ 6 10.6	1.472	2.451	5.6	21.5
10 28	0 32.67	-10 4.8	2.271	3.148	10.0	20.3	10 28	0 30.13	+ 5 3.2	1.514	2.447	10.2	21.8
11 7	0 27.39	- 9 52.8	2.354	3.145	12.6	20.5	11 7	0 24.55	+ 4 9.1	1.580	2.442	14.3	22.0
<b>410957</b>	2009 <i>SU</i> <sub>349</sub>	10 6.3 178°36'	1.2/ 5.1	18			<b>40566</b>	1999 <i>RE</i> <sub>124</sub>	10 6.3 27°40'	0.3/ 6.6	18		
8 29	1 13.26	+ 2 29.8	2.472	3.290	11.9	21.3	8 29	1 8.13	+12 18.2	1.489	2.318	17.9	18.3
9 8	1 8.79	+ 2 13.8	2.389	3.291	9.2	21.1	9 8	1 5.87	+11 7.4	1.420	2.324	14.1	18.1
9 18	1 2.64	+ 1 51.1	2.330	3.291	6.1	20.9	9 18	1 1.18	+ 9 32.5	1.370	2.330	9.6	17.9
9 28	0 55.27	+ 1 24.8	2.298	3.291	2.8	20.7	9 28	0 54.73	+ 7 39.0	1.345	2.337	4.5	17.6
10 8	0 47.35	+ 0 58.5	2.295	3.291	1.6	20.6	10 8	0 47.50	+ 5 36.3	1.345	2.344	0.8	17.3
10 18	0 39.60	+ 0 35.9	2.321	3.291	4.7	20.8	10 18	0 40.59	+ 3 36.1	1.373	2.352	5.9	17.7
10 28	0 32.73	+ 0 20.7	2.376	3.291	7.9	21.0	10 28	0 35.09	+ 1 49.6	1.426	2.360	10.6	18.0
11 7	0 27.33	+ 0 15.3	2.456	3.291	10.8	21.2	11 7	0 31.72	+ 0 25.0	1.503	2.369	14.7	18.3
<b>511346</b>	2014 <i>ET</i> <sub>44</sub>	10 6.3 195°45'	4.4/10.6	18			<b>258764</b>	2002 <i>JG</i> <sub>17</sub>	10 6.3 157°59'	2.0/ 8.0	17		
8 29	1 17.88	+19 23.5	2.293	3.039	14.8	22.3	8 29	1 16.61	+13 14.0	1.676	2.477	17.4	21.7
9 8	1 12.78	+19 49.2	2.197	3.037	12.4	22.2	9 8	1 12.28	+12 57.4	1.598	2.482	13.9	21.5
9 18	1 5.56	+19 58.9	2.121	3.034	9.5	22.0	9 18	1 5.43	+12 21.3	1.540	2.487	9.8	21.3
9 28	0 56.72	+19 51.3	2.070	3.031	6.5	21.8	9 28	0 56.70	+11 27.7	1.506	2.491	5.3	21.0
10 8	0 47.05	+19 27.3	2.047	3.027	4.5	21.7	10 8	0 47.10	+10 21.4	1.498	2.495	2.0	20.8
10 18	0 37.45	+18 49.9	2.052	3.022	5.2	21.7	10 18	0 37.77	+ 9 9.6	1.518	2.498	5.3	21.0
10 28	0 28.89	+18 4.5	2.086	3.017	7.9	21.9	10 28	0 29.86	+ 8 0.9	1.565	2.501	9.7	21.3
11 7	0 22.12	+17 17.3	2.147	3.011	10.9	22.0	11 7	0 24.19	+ 7 2.8	1.637	2.503	13.7	21.5
<b>66982</b>	1999 <i>XA</i> <sub>91</sub>	10 6.3 241°02'	2.0/ 8.6	18			<b>185313</b>	2006 <i>UA</i> <sub>328</sub>	10 6.3 154°75'	0.6/ 6.8	17		
8 29	1 11.32	+13 52.8	2.588	3.367	12.5	19.5	8 29	1 18.85	+ 7 55.7	1.620	2.439	17.1	20.8
9 8	1 7.38	+13 45.3	2.488	3.358	10.1	19.4	9 8	1 14.09	+ 7 56.2	1.544	2.442	13.5	20.6
9 18	1 1.77	+13 24.7	2.411	3.349	7.3	19.2	9 18	1 6.69	+ 7 43.0	1.488	2.444	9.3	20.3
9 28	0 54.91	+12 52.1	2.359	3.340	4.2	19.0	9 28	0 57.30	+ 7 18.2	1.456	2.447	4.5	20.1
10 8	0 47.42	+12 9.8	2.336	3.330	2.0	18.8	10 8	0 46.97	+ 6 46.2	1.451	2.449	0.9	19.8
10 18	0 40.01	+11 21.9	2.342	3.321	3.8	18.9	10 18	0 36.92	+ 6 12.6	1.473	2.452	5.6	20.1
10 28	0 33.40	+10 33.1	2.377	3.311	6.9	19.1	10 28	0 28.35	+ 5 43.9	1.522	2.453	10.3	20.4
11 7	0 28.19	+ 9 48.3	2.439	3.301	9.9	19.3	11 7	0 22.13	+ 5 25.4	1.594	2.455	14.3	20.7
<b>92487</b>	2000 <i>LL</i> <sub>31</sub>	10 6.3 54°02'	5.2/ 3.1	18			<b>53757</b>	2000 <i>EP</i> <sub>74</sub>	10 6.3 336°47'	4.8/ 2.1	18		
8 29	1 18.09	- 2 32.7	1.084	1.954	20.3	18.7	8 29	1 5.71	+ 1 5.5	1.181	2.059	18.4	17.7
9 8	1 14.06	- 3 26.4	1.043	1.972	15.6	18.5	9 8	1 4.70	+ 0 25.8	1.110	2.045	14.2	17.4
9 18	1 6.79	- 4 27.5	1.021	1.991	10.5	18.3	9 18	1 0.84	+ 2 15.5	1.058	2.033	9.5	17.1
9 28	0 57.27	- 5 26.2	1.020	2.011	6.0	18.1	9 28	0 54.73	+ 4 13.5	1.028	2.021	5.4	16.8
10 8	0 46.99	- 6 12.0	1.043	2.031	6.0	18.2	10 8	0 47.49	+ 6 5.9	1.023	2.010	6.0	16.8
10 18	0 37.51	- 6 37.3	1.090	2.051	10.1	18.5	10 18	0 40.45	+ 7 39.1	1.040	2.001	10.5	17.1
10 28	0 30.20	- 6 37.8	1.159	2.071	14.6	18.8	10 28	0 34.98	+ 8 42.5	1.080	1.993	15.4	17.3
11 7	0 25.84	- 6 14.0	1.248	2.092	18.5	19.1	11 7	0 32.06	+ 9 11.9	1.138	1.985	19.7	17.6
<b>436481</b>	2011 <i>EZ</i> <sub>14</sub>	10 6.3 265°29'	2.0/ 4.5	18			<b>509000</b>	2005 <i>GZ</i> <sub>40</sub>	10 6.3 101°61'	0.1/ 6.2	17		
8 29	1 13.04	+ 4 24.4	1.633	2.472	16.1	21.6	8 29	1 15.53	+ 9 0.4	1.556	2.380	17.5	21.6
9 8	1 9.67	+ 3 31.1	1.545	2.458	12.6	21.3	9 8	1 11.40	+ 8 15.8	1.493	2.395	13.6	21.4
9 18	1 3.82	+ 2 22.5	1.478	2.444	8.4	21.1	9 18	1 4.76	+ 7 13.6	1.451	2.410	9.2	21.1
9 28	0 56.02	+ 1 3.8	1.436	2.430	3.9	20.8	9 28	0 56.35	+ 5 58.4	1.432	2.425	4.2	20.9
10 8	0 47.19	+ 0 17.0	1.420	2.415	2.7	20.7	10 8	0 47.21	+ 4 37.8	1.440	2.439	0.9	20.7
10 18	0 38.47	+ 1 31.1	1.431	2.400	7.1	20.9	10 18	0 38.50	+ 3 20.5	1.476	2.452	5.9	21.1
10 28	0 31.02	+ 2 30.2	1.468	2.385	11.7	21.1	10 28	0 31.31	+ 2 14.8	1.538	2.466	10.4	21.4
11 7	0 25.73	+ 3 8.8	1.527	2.370	15.7	21.4	11 7	0 26.40	+ 1 26.3	1.623	2.479	14.3	21.6
<b>211776</b>	2004 <i>BD</i> <sub>116</sub>	10 6.3 183°73'	0.2/ 6.5	18			<b>51461</b>	2001 <i>FV</i> <sub>43</sub>	10 6.3 25°34'	0.1/ 6.2	18		
8 29	1 14.81	+ 7 38.											

EPHEMERIDES

10 6.3

10 6.4

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>127405</b>	2002 <i>LT</i> <sub>32</sub>	10	6.3	58°58'	7.7/27.4	18	<b>12393</b>	1994 <i>YC</i> <sub>1</sub>	10	6.3	233°24'	0.1/6.2	18
8 29	1 10.95	-15 0.4	2.046	2.897	12.8	18.8	8 29	1 11.29	+7 3.0	2.532	3.339	12.0	18.9
9 8	1 7.24	-16 35.9	2.006	2.913	10.4	18.7	9 8	1 7.34	+6 38.2	2.438	3.332	9.4	18.7
9 18	1 1.67	-18 6.5	1.989	2.929	8.4	18.6	9 18	1 1.74	+6 3.4	2.368	3.325	6.3	18.5
9 28	0 54.83	-19 24.0	1.998	2.946	7.7	18.6	9 28	0 54.93	+5 21.1	2.325	3.317	2.9	18.2
10 8	0 47.52	-20 21.6	2.033	2.963	8.6	18.7	10 8	0 47.53	+4 35.0	2.310	3.309	0.7	18.0
10 18	0 40.58	-20 54.9	2.094	2.979	10.5	18.8	10 18	0 40.22	+3 49.5	2.325	3.301	4.2	18.3
10 28	0 34.78	-21 2.6	2.178	2.996	12.7	19.0	10 28	0 33.73	+3 9.2	2.369	3.292	7.5	18.5
11 7	0 30.67	-20 46.0	2.281	3.013	14.6	19.2	11 7	0 28.64	+2 38.1	2.439	3.284	10.5	18.7
<b>99062</b>	2001 <i>FQ</i>	10	6.3	283°61'	7.1/29.4	18	<b>315426</b>	2007 <i>VZ</i> <sub>259</sub>	10	6.3	115°08'	5.0/10.4	17
8 29	1 13.66	-10 23.9	1.796	2.649	14.2	19.3	8 29	1 19.46	+18 57.1	1.564	2.341	19.4	21.3
9 8	1 9.98	-11 41.7	1.714	2.629	11.4	19.1	9 8	1 14.74	+19 17.9	1.494	2.355	16.0	21.1
9 18	1 3.94	-13 1.7	1.653	2.608	8.7	18.9	9 18	1 7.21	+19 15.9	1.441	2.367	12.1	20.9
9 28	0 56.07	-14 15.1	1.618	2.587	7.1	18.7	9 28	0 57.58	+18 49.9	1.411	2.380	8.0	20.7
10 8	0 47.25	-15 13.0	1.609	2.566	8.1	18.7	10 8	0 47.01	+18 2.3	1.406	2.392	5.1	20.6
10 18	0 38.53	-15 48.4	1.625	2.545	10.8	18.9	10 18	0 36.81	+16 59.3	1.428	2.403	6.3	20.7
10 28	0 30.99	-15 57.0	1.665	2.524	14.0	19.0	10 28	0 28.26	+15 49.9	1.476	2.414	9.9	20.9
11 7	0 25.48	-15 38.6	1.726	2.502	17.0	19.2	11 7	0 22.25	+14 43.7	1.548	2.425	13.7	21.2
<b>203768</b>	2002 <i>RW</i> <sub>216</sub>	10	6.3	75°22'	1.3/5.0	18	<b>212770</b>	2007 <i>TL</i> <sub>79</sub>	10	6.3	326°63'	0.7/6.9	18
8 29	1 12.23	+4 58.3	1.816	2.648	15.0	19.9	8 29	1 13.14	+9 5.8	1.779	2.598	15.8	20.6
9 8	1 8.57	+4 14.7	1.745	2.653	11.6	19.7	9 8	1 9.49	+8 53.8	1.697	2.595	12.5	20.4
9 18	1 2.78	+3 18.8	1.695	2.659	7.7	19.5	9 18	1 3.55	+8 27.1	1.635	2.592	8.6	20.1
9 28	0 55.43	+2 15.3	1.670	2.664	3.5	19.3	9 28	0 55.88	+7 48.2	1.598	2.589	4.2	19.9
10 8	0 47.40	+1 10.6	1.673	2.670	1.9	19.2	10 8	0 47.36	+7 1.6	1.588	2.586	0.8	19.6
10 18	0 39.64	+0 11.7	1.703	2.675	5.9	19.5	10 18	0 39.02	+6 13.5	1.605	2.584	5.2	19.9
10 28	0 33.09	-0 35.3	1.760	2.681	9.9	19.7	10 28	0 31.91	+5 30.3	1.648	2.582	9.5	20.2
11 7	0 28.45	-1 6.2	1.841	2.686	13.4	19.9	11 7	0 26.80	+4 57.6	1.716	2.580	13.3	20.4
<b>233683</b>	2008 <i>RG</i> <sub>113</sub>	10	6.3	324°62'	1°5/9.1	18	<b>490485</b>	2009 <i>SK</i> <sub>360</sub>	10	6.4	324°39'	1°8/5.1	17
8 29	1 5.14	+14 21.9	4.070	4.837	8.5	20.8	8 29	1 17.86	-0 32.4	1.877	2.709	14.6	20.4
9 8	1 1.99	+14 15.4	3.971	4.832	6.8	20.6	9 8	1 13.17	-0 18.3	1.782	2.690	11.5	20.1
9 18	0 57.87	+14 0.5	3.894	4.827	5.0	20.5	9 18	1 6.08	-0 8.0	1.708	2.671	7.7	19.8
9 28	0 53.04	+13 38.0	3.845	4.822	3.0	20.3	9 28	0 57.10	+0 1.2	1.660	2.653	3.7	19.6
10 8	0 47.89	+13 9.6	3.825	4.817	1.5	20.2	10 8	0 47.11	+0 13.0	1.640	2.636	2.3	19.4
10 18	0 42.79	+12 37.4	3.835	4.813	2.5	20.3	10 18	0 37.16	+0 30.4	1.648	2.619	6.2	19.7
10 28	0 38.16	+12 3.9	3.875	4.808	4.5	20.4	10 28	0 28.36	+0 56.5	1.683	2.603	10.3	19.9
11 7	0 34.34	+11 32.1	3.943	4.804	6.5	20.6	11 7	0 21.60	+1 33.0	1.742	2.587	14.0	20.1
<b>24158</b>	Kokubo	10	6.3	312°55'	3°1/8.5	18	<b>288368</b>	2004 <i>CG</i> <sub>18</sub>	10	6.4	218°12'	0°0/6.3	18
8 29	1 15.41	+12 48.6	1.384	2.204	19.4	18.8	8 29	1 16.60	+7 27.1	1.789	2.606	15.8	21.7
9 8	1 12.11	+13 10.9	1.301	2.195	15.8	18.5	9 8	1 12.21	+7 5.7	1.702	2.600	12.5	21.5
9 18	1 5.81	+13 14.4	1.236	2.185	11.5	18.3	9 18	1 5.42	+6 30.2	1.635	2.593	8.5	21.2
9 28	0 57.09	+12 58.4	1.192	2.177	6.6	18.0	9 28	0 56.77	+5 43.7	1.594	2.586	3.9	20.9
10 8	0 47.06	+12 25.9	1.173	2.168	3.1	17.7	10 8	0 47.19	+4 51.2	1.580	2.579	0.8	20.7
10 18	0 37.12	+11 42.7	1.179	2.160	6.2	17.9	10 18	0 37.75	+3 59.2	1.594	2.571	5.6	21.0
10 28	0 28.76	+10 57.3	1.210	2.152	11.2	18.2	10 28	0 29.57	+3 14.5	1.635	2.562	10.0	21.3
11 7	0 23.07	+10 18.5	1.262	2.145	15.8	18.4	11 7	0 23.48	+2 42.6	1.701	2.553	13.9	21.5
<b>22209</b>	1056 <i>T</i> <sub>-1</sub>	10	6.3	167°74'	2°9/9.1	18	<b>226473</b>	2003 <i>SA</i> <sub>175</sub>	10	6.4	62°16'	0°5/5.8	18
8 29	1 17.61	+14 53.8	2.209	2.981	14.6	19.3	8 29	1 11.48	+6 14.0	2.123	2.943	13.5	20.3
9 8	1 12.52	+15 10.6	2.122	2.985	11.9	19.1	9 8	1 7.60	+5 42.7	2.058	2.960	10.5	20.1
9 18	1 5.36	+15 13.2	2.056	2.988	8.7	18.9	9 18	1 1.93	+5 0.8	2.016	2.976	6.9	19.9
9 28	0 56.64	+15 1.4	2.014	2.990	5.3	18.7	9 28	0 55.00	+4 11.8	1.999	2.992	3.1	19.7
10 8	0 47.17	+14 37.3	2.001	2.992	3.0	18.6	10 8	0 47.56	+3 20.7	2.010	3.009	1.0	19.6
10 18	0 37.86	+14 4.3	2.017	2.994	4.6	18.7	10 18	0 40.42	+2 32.7	2.050	3.025	4.8	19.9
10 28	0 29.62	+13 27.8	2.062	2.995	7.9	18.9	10 28	0 34.33	+1 52.9	2.118	3.042	8.3	20.1
11 7	0 23.19	+12 53.2	2.133	2.996	11.1	19.1	11 7	0 29.87	+1 24.7	2.211	3.058	11.3	20.3
<b>78748</b>	2002 <i>TD</i> <sub>276</sub>	10	6.3	323°97'	2°1/8.4	18	<b>118843</b>	2000 <i>SW</i> <sub>239</sub>	10	6.4	357°74'	0°9/5.5	18
8 29	1 11.89	+13 32.2	1.861	2.662	15.9	19.1	8 29	1 12.10	+4 39.6	1.858	2.690	14.7	19.4
9 8	1 8.45	+13 21.2	1.776	2.659	12.8	18.9	9 8	1 8.52	+4 19.2	1.781	2.688	11.5	19.2
9 18	1 2.81	+12 52.6	1.711	2.657	9.1	18.7	9 18	1 2.79	+3 48.0	1.724	2.687	7.6	19.0
9 28	0 55.51	+12 7.8	1.670	2.655	5.1	18.5	9 28	0 55.50	+3 9.7	1.693	2.687	3.5	18.7
10 8	0 47.40	+11 10.8	1.656	2.652	2.1	18.3	10 8	0 47.46	+2 29.3	1.689	2.687	1.4	18.6
10 18	0 39.45	+10 7.5	1.670	2.650	4.8	18.4	10 18	0 39.62	+1 52.4	1.712	2.687	5.5	18.9
10 28	0 32.66	+9 5.5	1.710	2.648	8.8	18.7	10 28	0 32.95	+1 24.5	1.762	2.687	9.6	19.1
11 7	0 27.80	+8 11.4	1.775	2.646	12.5	18.9	11 7	0 28.14	+1 9.3	1.836	2.688	13.1	19.3
<b>9922</b>	Catchell	10	6.3	340°16'	1°5/7.3	18	<b>371364</b>	2006 <i>PA</i> <sub>17</sub>	10	6.4	356°16'	5°6/10.1	18
8 29	1 8.75	+9 22.6	1.130	1.987	20.5	18.0	8 29	1 13.32	+16 58.0	1.198	2.018	21.9	19.6
9 8	1 7.40	+9 31.8	1.053	1.972	16.5	17.7	9 8	1 10.87	+17 41.1	1.126	2.015	18.2	19.3
9 18	1 2.89	+9 21.2	0.993	1.958	11.5	17.4	9 18	1 5.17	+18 0.1	1.071	2.012	13.8	19.1
9 28	0 55.81	+8 52.1	0.953	1.945	5.9	17.0	9 28	0 56.85	+17 52.4	1.035	2.010	9.1	18.8
10 8	0 47.32	+8 9.8	0.935	1.934	1.5	16.7	10 8	0 47.17	+17 19.5	1.021	2.010	5.7	18.6
10 18	0 38.92	+7 22.4	0.940	1.924	6.8	17.0	10 18	0 37.71	+16 27.6	1.030	2.010	7.3	18.7
10 28	0 32.23	+6 40.0	0.968	1.915	12.6	17.3	10 28	0 30.07	+15 27.0	1.063	2.011	11.7	19.0
11 7	0 28.41	+6 11.3	1.015	1.908	17.7	17.6	11 7	0 25.38	+14 29.2	1.117	2.013	16.3	19.2
<b>431702</b>	2008 <i>EW</i> <sub>55</sub>	10	6.3	185°23'	1°4/4.9	17	<b>75570</b>	Jenőwigner	10	6.4	293°20'	1°5/7.9	18
8 29	1 15.56	+5 18.7	1.886	2.708	14.9	22.9	8 29	1 9.87	+12 28.4	2.239	3.036	13.7	19.5
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EPHEMERIDES

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>315914</b>	2008 <i>RE</i> <sub>113</sub>	10 6.4	51°77'	1°0'	8.3	18	<b>515376</b>	2013 <i>EJ</i> <sub>76</sub>	10 6.4	74°56'	2°8'	3.2	18
8 29	1 4.34	+12 9.9	4.386	5.162	7.8	21.2	8 29	1 10.41	+ 0 56.5	2.022	2.861	13.4	21.3
9 8	1 1.29	+11 54.6	4.293	5.164	6.2	21.1	9 8	1 6.92	- 0 10.4	1.955	2.869	10.3	21.1
9 18	0 57.36	+11 32.1	4.225	5.165	4.3	21.0	9 18	1 1.56	- 1 26.0	1.912	2.878	6.8	20.9
9 28	0 52.83	+11 3.4	4.183	5.166	2.4	20.8	9 28	0 54.88	- 2 44.5	1.895	2.887	3.5	20.7
10 8	0 48.01	+10 30.4	4.172	5.168	1.0	20.7	10 8	0 47.64	- 3 58.8	1.906	2.895	3.4	20.7
10 18	0 43.27	+ 9 55.2	4.190	5.169	2.3	20.8	10 18	0 40.66	- 5 2.5	1.945	2.904	6.5	21.0
10 28	0 38.95	+ 9 20.3	4.239	5.171	4.2	21.0	10 28	0 34.74	- 5 50.3	2.011	2.913	9.9	21.2
11 7	0 35.38	+ 8 48.1	4.316	5.172	6.1	21.1	11 7	0 30.50	- 6 19.6	2.101	2.922	12.9	21.4
<b>101914</b>	1999 <i>RW</i> <sub>10</sub>	10 6.4	11°76'	0°0'	6.3	17	<b>80607</b>	2000 <i>AN</i> <sub>159</sub>	10 6.4	221°13'	5°3'	1.6	18
8 29	1 8.64	+ 8 13.4	0.989	1.859	21.8	19.0	8 29	1 16.49	- 5 37.2	1.776	2.621	14.7	20.1
9 8	1 7.35	+ 7 55.6	0.934	1.862	17.2	18.7	9 8	1 12.07	- 6 40.9	1.700	2.615	11.5	19.8
9 18	1 2.76	+ 7 15.5	0.896	1.866	11.6	18.4	9 18	1 5.27	- 7 49.5	1.646	2.608	8.1	19.6
9 28	0 55.67	+ 6 17.7	0.877	1.872	5.4	18.1	9 28	0 56.70	- 8 55.4	1.618	2.600	5.5	19.5
10 8	0 47.45	+ 5 11.5	0.880	1.879	1.0	17.9	10 8	0 47.28	- 9 50.6	1.617	2.592	6.0	19.5
10 18	0 39.70	+ 4 8.1	0.906	1.888	7.4	18.3	10 18	0 38.07	-10 28.4	1.642	2.584	9.1	19.6
10 28	0 33.94	+ 3 18.2	0.953	1.898	13.1	18.7	10 28	0 30.14	-10 44.2	1.693	2.575	12.6	19.8
11 7	0 31.11	+ 2 49.0	1.020	1.910	18.0	19.0	11 7	0 24.30	-10 37.2	1.766	2.566	15.8	20.0
<b>420956</b>	2013 <i>PH</i> <sub>9</sub>	10 6.4	248°48'	2°2'	4.4	18	<b>279487</b>	2010 <i>XT</i> <sub>38</sub>	10 6.4	280°66'	6°0'	22.6	18
8 29	1 13.23	+ 4 34.7	1.477	2.321	17.2	21.0	8 29	1 7.21	-28 48.9	4.466	5.265	7.3	20.5
9 8	1 9.99	+ 3 33.2	1.401	2.316	13.4	20.7	9 8	1 3.52	-29 37.7	4.416	5.260	6.5	20.4
9 18	1 4.11	+ 2 15.2	1.345	2.312	8.9	20.5	9 18	0 58.86	-30 19.1	4.389	5.255	6.1	20.4
9 28	0 56.22	+ 0 47.0	1.313	2.307	4.1	20.2	9 28	0 53.53	-30 49.9	4.388	5.250	6.1	20.4
10 8	0 47.34	- 0 42.3	1.307	2.302	3.0	20.1	10 8	0 47.92	-31 7.4	4.413	5.245	6.6	20.4
10 18	0 38.69	- 2 2.6	1.328	2.297	7.5	20.4	10 18	0 42.43	-31 10.2	4.462	5.240	7.4	20.5
10 28	0 31.50	- 3 5.0	1.373	2.292	12.2	20.6	10 28	0 37.46	-30 57.7	4.533	5.235	8.3	20.6
11 7	0 26.63	- 3 44.4	1.441	2.287	16.3	20.9	11 7	0 33.36	-30 30.6	4.625	5.230	9.1	20.6
<b>115972</b>	2003 <i>WK</i> <sub>46</sub>	10 6.4	166°58'	1°0'	5.5	18	<b>315945</b>	2008 <i>TR</i> <sub>118</sub>	10 6.4	358°59'	0°8'	7.9	16
8 29	1 16.16	+ 5 52.1	1.610	2.440	16.7	20.4	8 29	1 5.72	+10 37.5	4.252	5.033	7.9	21.2
9 8	1 11.99	+ 5 14.9	1.536	2.442	13.0	20.1	9 8	1 2.37	+10 30.8	4.158	5.033	6.3	21.1
9 18	1 5.29	+ 4 23.2	1.482	2.445	8.7	19.9	9 18	0 58.11	+10 17.5	4.089	5.033	4.4	21.0
9 28	0 56.71	+ 3 21.4	1.453	2.447	3.9	19.6	9 28	0 53.20	+ 9 58.6	4.047	5.033	2.3	20.8
10 8	0 47.25	+ 2 16.6	1.450	2.448	1.7	19.5	10 8	0 47.98	+ 9 35.7	4.035	5.033	0.8	20.7
10 18	0 38.08	+ 1 16.5	1.475	2.449	6.3	19.8	10 18	0 42.83	+ 9 11.0	4.054	5.033	2.4	20.8
10 28	0 30.33	+ 0 28.4	1.526	2.450	10.9	20.0	10 28	0 38.13	+ 8 46.7	4.103	5.033	4.4	21.0
11 7	0 24.84	- 0 2.7	1.601	2.450	14.8	20.3	11 7	0 34.21	+ 8 25.1	4.179	5.033	6.3	21.1
<b>206509</b>	2003 <i>UX</i> <sub>124</sub>	10 6.4	290°78'	7°7'	1.7	18	<b>512406</b>	2016 <i>PE</i> <sub>68</sub>	10 6.4	1°64'	6°0'	10.6	18
8 29	1 28.20	-15 35.0	1.794	2.618	15.5	19.7	8 29	1 4.27	+17 26.5	0.992	1.840	23.5	19.8
9 8	1 21.40	-15 50.8	1.703	2.597	12.7	19.5	9 8	1 4.18	+18 7.2	0.931	1.835	19.5	19.5
9 18	1 11.70	-15 59.4	1.634	2.575	9.9	19.3	9 18	1 0.84	+18 18.5	0.884	1.833	14.9	19.3
9 28	0 59.75	-15 53.2	1.591	2.553	7.9	19.1	9 28	0 54.89	+17 58.0	0.855	1.834	9.9	19.0
10 8	0 46.65	-15 25.8	1.575	2.531	8.3	19.1	10 8	0 47.64	+17 8.9	0.846	1.836	6.2	18.8
10 18	0 33.72	-14 33.7	1.586	2.509	10.8	19.2	10 18	0 40.69	+15 59.6	0.859	1.841	7.5	18.9
10 28	0 22.33	-13 17.1	1.625	2.488	14.1	19.3	10 28	0 35.65	+14 43.1	0.892	1.848	12.1	19.2
11 7	0 13.45	-11 39.6	1.686	2.466	17.3	19.5	11 7	0 33.57	+13 32.8	0.946	1.858	16.8	19.5
<b>426203</b>	2012 <i>KD</i> <sub>20</sub>	10 6.4	61°62'	1°6'	5.1	16	<b>96086</b>	Toscanos	10 6.4	49°89'	0°0'	6.3	18
8 29	1 16.28	+ 5 0.5	1.319	2.164	18.8	21.7	8 29	1 7.53	+ 7 57.1	2.864	3.670	10.8	19.4
9 8	1 12.21	+ 4 15.8	1.272	2.187	14.5	21.5	9 8	1 4.18	+ 7 27.4	2.786	3.679	8.4	19.2
9 18	1 5.39	+ 3 16.3	1.244	2.211	9.5	21.3	9 18	0 59.50	+ 6 48.5	2.732	3.688	5.6	19.1
9 28	0 56.67	+ 2 8.8	1.240	2.234	4.3	21.1	9 28	0 53.88	+ 6 2.9	2.705	3.697	2.6	18.9
10 8	0 47.29	+ 1 1.9	1.261	2.258	2.3	21.0	10 8	0 47.87	+ 5 14.2	2.708	3.706	0.5	18.7
10 18	0 38.55	+ 0 4.3	1.308	2.281	7.1	21.4	10 18	0 42.00	+ 4 26.2	2.739	3.716	3.6	19.0
10 28	0 31.60	- 0 37.1	1.380	2.305	11.7	21.7	10 28	0 36.86	+ 3 43.0	2.800	3.725	6.4	19.2
11 7	0 27.17	- 0 58.6	1.474	2.328	15.5	22.0	11 7	0 32.89	+ 3 7.8	2.887	3.735	9.0	19.4
<b>406314</b>	2007 <i>JQ</i> <sub>19</sub>	10 6.4	96°96'	0°4'	6.9	18	<b>472548</b>	2015 <i>DN</i> <sub>33</sub>	10 6.4	59°60'	1°3'	5.4	16
8 29	1 11.59	+ 9 5.2	2.487	3.288	12.3	21.9	8 29	1 17.37	+ 4 29.4	1.369	2.211	18.4	21.3
9 8	1 7.46	+ 8 41.4	2.415	3.303	9.7	21.7	9 8	1 13.00	+ 4 2.9	1.320	2.233	14.2	21.1
9 18	1 1.75	+ 8 6.6	2.365	3.318	6.5	21.6	9 18	1 5.92	+ 3 23.3	1.289	2.255	9.4	20.8
9 28	0 54.92	+ 7 23.5	2.342	3.332	3.2	21.4	9 28	0 56.95	+ 2 36.1	1.283	2.277	4.2	20.6
10 8	0 47.63	+ 6 35.9	2.347	3.346	0.6	21.2	10 8	0 47.30	+ 1 48.5	1.302	2.299	1.9	20.5
10 18	0 40.56	+ 5 48.0	2.382	3.360	3.9	21.5	10 18	0 38.25	+ 1 7.7	1.347	2.321	6.7	20.9
10 28	0 34.40	+ 5 4.7	2.446	3.374	7.1	21.7	10 28	0 30.96	+ 0 40.1	1.417	2.344	11.3	21.2
11 7	0 29.67	+ 4 29.7	2.537	3.387	9.9	21.9	11 7	0 26.17	+ 0 29.1	1.510	2.366	15.1	21.5
<b>485840</b>	2012 <i>DO</i> <sub>76</sub>	10 6.4	194°43'	2°9'	2.1	18	<b>15540</b>	2000 <i>CF</i> <sub>18</sub>	10 6.4	139°57'	3°6'	30.1	18
8 29	1 9.36	- 1 34.6	2.751	3.582	10.5	21.7	8 29	1 6.88	- 8 19.3	3.476	4.311	8.4	18.7
9 8	1 5.67	- 2 46.7	2.670	3.580	8.0	21.6	9 8	1 3.43	- 9 20.2	3.409	4.316	6.5	18.5
9 18	1 0.53	- 4 4.7	2.615	3.577	5.4	21.4	9 18	0 58.88	-10 21.7	3.368	4.322	4.7	18.4
9 28	0 54.37	- 5 23.8	2.588	3.575	3.2	21.3	9 28	0 53.58	-11 19.8	3.355	4.327	3.6	18.4
10 8	0 47.73	- 6 38.4	2.590	3.572	3.5	21.3	10 8	0 47.94	-12 10.6	3.372	4.332	4.1	18.4
10 18	0 41.22	- 7 43.6	2.623	3.569	5.9	21.4	10 18	0 42.43	-12 51.0	3.417	4.337	5.7	18.5
10 28	0 35.45	- 8 35.1	2.683	3.565	8.5	21.6	10 28	0 37.50	-13 18.8	3.490	4.342	7.5	18.6
11 7	0 30.93	- 9 10.7	2.768	3.561	10.9	21.8	11 7	0 33.54	-13 32.8	3.588	4.347	9.3	18.8
<b>353751</b>	2012 <i>BS</i> <sub>6</sub>	10 6.4	147°73'	0°6'	7.0	18	<b>489605</b>	2007 <i>TR</i> <sub>194</sub>	10 6.4	336°67'	1°3'	5.4	16
8 29	1 12.36	+ 9 21.3	2.392	3.193	12.8	21.6							

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>114414</b>	2002 YN <sub>27</sub>	10	6.4 290°20	5°1/10.4	18		<b>273445</b>	2006 WM <sub>190</sub>	10	6.4 329°49	6°2/ 1.4	18	
8 29	1 14.72	+18 37.7	1.586	2.372	18.8	19.3	8 29	1 11.65	- 4 8.5	1.293	2.164	17.6	19.8
9 8	1 11.32	+19 2.6	1.497	2.364	15.7	19.1	9 8	1 9.12	- 5 26.3	1.225	2.155	13.7	19.5
9 18	1 5.17	+19 5.7	1.427	2.355	12.0	18.9	9 18	1 3.73	- 6 53.1	1.178	2.147	9.6	19.2
9 28	0 56.82	+18 45.2	1.377	2.347	8.1	18.6	9 28	0 56.15	- 8 18.6	1.154	2.140	6.5	19.1
10 8	0 47.28	+18 2.5	1.353	2.339	5.2	18.4	10 8	0 47.50	- 9 31.3	1.153	2.133	7.2	19.1
10 18	0 37.82	+17 2.6	1.354	2.330	6.4	18.5	10 18	0 39.12	-10 21.4	1.177	2.127	10.9	19.3
10 28	0 29.74	+15 54.2	1.381	2.322	10.2	18.7	10 28	0 32.34	-10 42.6	1.223	2.121	15.2	19.5
11 7	0 24.08	+14 47.3	1.431	2.314	14.2	18.9	11 7	0 28.10	-10 34.0	1.288	2.116	19.0	19.7
<b>86789</b>	2000 GD <sub>99</sub>	10	6.4 25°45	3°2/ 8.2	18		<b>317922</b>	2003 UJ <sub>337</sub>	10	6.4 106°35	0°1/ 6.5	18	
8 29	1 15.48	+11 0.2	0.927	1.785	23.9	18.0	8 29	1 13.76	+ 6 49.0	2.407	3.213	12.6	20.5
9 8	1 12.92	+11 40.9	0.878	1.794	19.2	17.8	9 8	1 9.28	+ 6 43.4	2.327	3.219	9.8	20.3
9 18	1 6.63	+11 58.9	0.845	1.806	13.6	17.5	9 18	1 3.08	+ 6 28.6	2.269	3.224	6.6	20.1
9 28	0 57.51	+11 54.4	0.830	1.819	7.6	17.2	9 28	0 55.63	+ 6 6.8	2.238	3.229	3.1	19.9
10 8	0 47.19	+11 31.9	0.837	1.833	3.3	17.1	10 8	0 47.61	+ 5 41.3	2.236	3.235	0.6	19.7
10 18	0 37.51	+10 59.1	0.865	1.849	7.2	17.3	10 18	0 39.78	+ 5 15.7	2.263	3.240	4.2	20.0
10 28	0 30.20	+10 26.6	0.915	1.865	12.8	17.7	10 28	0 32.88	+ 4 54.1	2.319	3.245	7.5	20.2
11 7	0 26.26	+10 3.3	0.985	1.883	17.7	18.1	11 7	0 27.50	+ 4 39.8	2.401	3.250	10.5	20.4
<b>426235</b>	2012 OD <sub>3</sub>	10	6.4 57°93	1°6/ 5.2	16		<b>54595</b>	2000 QZ <sub>222</sub>	10	6.4 111°35	6°3/28.9	18	
8 29	1 17.52	+ 3 56.1	1.346	2.190	18.6	21.1	8 29	1 14.40	-13 8.8	2.365	3.202	11.8	19.0
9 8	1 13.15	+ 3 28.6	1.298	2.212	14.3	20.9	9 8	1 9.64	-14 25.2	2.319	3.222	9.4	18.9
9 18	1 6.03	+ 2 48.5	1.269	2.235	9.4	20.7	9 18	1 3.20	-15 38.6	2.297	3.240	7.3	18.8
9 28	0 57.00	+ 2 1.3	1.264	2.258	4.3	20.5	9 28	0 55.62	-16 42.2	2.303	3.259	6.3	18.8
10 8	0 47.31	+ 1 14.7	1.284	2.281	2.2	20.4	10 8	0 47.63	-17 30.3	2.336	3.277	7.0	18.8
10 18	0 38.24	+ 0 35.7	1.330	2.304	6.9	20.7	10 18	0 39.98	-17 59.1	2.396	3.294	8.8	19.0
10 28	0 30.96	+ 0 10.6	1.401	2.327	11.4	21.1	10 28	0 33.38	-18 7.0	2.482	3.311	10.9	19.2
11 7	0 26.21	+ 0 2.5	1.494	2.350	15.3	21.4	11 7	0 28.35	-17 54.7	2.589	3.328	12.9	19.3
<b>511919</b>	2015 HD <sub>100</sub>	10	6.4 50°08	1°1/ 7.4	18		<b>306667</b>	2000 SL <sub>299</sub>	10	6.4 321°95	2°4/ 8.4	18	
8 29	1 10.89	+12 58.1	1.517	2.338	18.0	21.0	8 29	1 10.69	+13 37.5	1.500	2.319	18.2	19.8
9 8	1 8.01	+12 11.2	1.449	2.347	14.3	20.8	9 8	1 8.19	+13 28.1	1.414	2.308	14.8	19.6
9 18	1 2.66	+11 1.7	1.401	2.356	9.9	20.5	9 18	1 3.06	+12 57.1	1.346	2.297	10.6	19.3
9 28	0 55.52	+ 9 33.8	1.375	2.365	5.0	20.3	9 28	0 55.85	+12 5.7	1.300	2.286	6.0	19.0
10 8	0 47.59	+ 7 54.9	1.376	2.375	1.1	20.0	10 8	0 47.54	+10 58.4	1.279	2.276	2.4	18.8
10 18	0 40.01	+ 6 15.0	1.404	2.385	5.5	20.4	10 18	0 39.34	+ 9 42.9	1.285	2.267	5.6	19.0
10 28	0 33.87	+ 4 44.4	1.458	2.395	10.1	20.7	10 28	0 32.50	+ 8 29.0	1.315	2.258	10.5	19.2
11 7	0 29.93	+ 3 31.0	1.535	2.405	14.2	20.9	11 7	0 27.98	+ 7 25.8	1.368	2.249	14.9	19.5
<b>520954</b>	2014 YV <sub>58</sub>	10	6.4 197°08	2°8/ 4.1	17		<b>240645</b>	2005 BV <sub>22</sub>	10	6.4 88°92	7°1/29.1	18	
8 29	1 15.73	+ 2 1.3	1.516	2.360	16.9	21.7	8 29	1 13.85	-11 7.0	1.839	2.690	14.0	20.3
9 8	1 11.83	+ 1 10.8	1.444	2.359	13.1	21.4	9 8	1 9.71	-12 40.4	1.793	2.706	11.1	20.1
9 18	1 5.30	+ 0 7.8	1.392	2.358	8.7	21.2	9 18	1 3.48	-14 12.2	1.770	2.721	8.5	20.0
9 28	0 56.79	- 1 1.1	1.364	2.357	4.2	20.9	9 28	0 55.80	-15 33.5	1.773	2.737	7.1	20.0
10 8	0 47.34	- 2 7.8	1.362	2.356	3.5	20.9	10 8	0 47.59	-16 36.4	1.802	2.752	8.0	20.0
10 18	0 38.17	- 3 3.9	1.387	2.354	7.7	21.1	10 18	0 39.79	-17 15.5	1.858	2.767	10.3	20.2
10 28	0 30.48	- 3 42.4	1.438	2.352	12.1	21.4	10 28	0 33.28	-17 28.5	1.937	2.782	12.9	20.4
11 7	0 25.14	- 3 59.7	1.510	2.350	16.0	21.6	11 7	0 28.68	-17 16.5	2.036	2.796	15.3	20.6
<b>365974</b>	2012 BV <sub>52</sub>	10	6.4 89°76	5°0/30.1	18		<b>232219</b>	2002 JN <sub>9</sub>	10	6.4 70°12	0°6/ 5.8	18	
8 29	1 10.34	- 7 45.3	2.333	3.177	11.7	20.7	8 29	1 14.08	+ 6 13.9	1.703	2.532	16.0	21.0
9 8	1 6.61	- 9 3.8	2.276	3.189	9.1	20.5	9 8	1 10.18	+ 5 45.4	1.635	2.541	12.4	20.8
9 18	1 1.23	-10 23.6	2.244	3.201	6.5	20.4	9 18	1 3.98	+ 5 3.6	1.588	2.550	8.3	20.6
9 28	0 54.73	-11 38.4	2.239	3.213	5.0	20.3	9 28	0 56.11	+ 4 12.7	1.565	2.559	3.8	20.4
10 8	0 47.77	-12 41.8	2.262	3.224	5.7	20.4	10 8	0 47.52	+ 3 18.7	1.570	2.568	1.2	20.2
10 18	0 41.06	-13 29.1	2.312	3.236	7.8	20.5	10 18	0 39.26	+ 2 28.2	1.601	2.577	5.7	20.5
10 28	0 35.29	-13 57.2	2.389	3.247	10.3	20.7	10 28	0 32.32	+ 1 47.7	1.660	2.586	9.9	20.8
11 7	0 31.01	-14 5.4	2.488	3.259	12.6	20.9	11 7	0 27.45	+ 1 21.4	1.741	2.596	13.6	21.1
<b>372993</b>	2011 CP <sub>80</sub>	10	6.4 325°26	1°2/ 7.3	18		<b>215214</b>	2000 TH <sub>20</sub>	10	6.4 16°31	5°2/ 1.2	18	
8 29	1 10.63	+11 10.0	1.319	2.157	19.3	20.2	8 29	1 10.51	- 5 25.2	1.809	2.664	14.1	19.5
9 8	1 8.44	+10 50.8	1.239	2.146	15.4	20.0	9 8	1 7.29	- 6 37.2	1.745	2.666	10.9	19.3
9 18	1 3.38	+10 9.4	1.176	2.136	10.8	19.7	9 18	1 1.98	- 7 53.4	1.705	2.669	7.6	19.1
9 28	0 56.03	+ 9 8.0	1.135	2.126	5.5	19.4	9 28	0 55.17	- 9 6.4	1.689	2.672	5.3	19.0
10 8	0 47.48	+ 7 53.1	1.118	2.117	1.3	19.1	10 8	0 47.71	-10 8.3	1.701	2.675	5.9	19.1
10 18	0 39.08	+ 6 34.0	1.127	2.108	6.3	19.4	10 18	0 40.52	-10 52.6	1.738	2.679	8.7	19.2
10 28	0 32.21	+ 5 21.6	1.159	2.101	11.7	19.6	10 28	0 34.51	-11 15.3	1.800	2.683	11.9	19.4
11 7	0 27.90	+ 4 25.1	1.213	2.093	16.4	19.9	11 7	0 30.35	-11 15.4	1.884	2.687	14.8	19.7
<b>67083</b>	2000 AW <sub>34</sub>	10	6.4 13°28	1°1/ 5.3	18		<b>487187</b>	2014 OO <sub>339</sub>	10	6.4 44°48	4°8/30.9	18	
8 29	1 11.63	+ 3 59.0	2.130	2.956	13.3	18.4	8 29	1 10.47	- 6 8.7	2.140	2.987	12.5	21.1
9 8	1 7.87	+ 3 35.4	2.052	2.957	10.3	18.2	9 8	1 6.94	- 7 18.8	2.074	2.990	9.7	20.9
9 18	1 2.25	+ 3 2.7	1.996	2.958	6.8	18.0	9 18	1 1.59	- 8 32.0	2.031	2.992	6.8	20.7
9 28	0 55.27	+ 2 24.3	1.966	2.960	3.1	17.7	9 28	0 54.95	- 9 41.8	2.015	2.994	4.9	20.6
10 8	0 47.66	+ 1 45.0	1.964	2.961	1.5	17.6	10 8	0 47.75	-10 41.7	2.026	2.997	5.5	20.7
10 18	0 40.25	+ 1 9.4	1.991	2.963	5.1	17.9	10 18	0 40.78	-11 26.0	2.065	3.000	7.9	20.8
10 28	0 33.84	+ 0 42.3	2.044	2.965	8.7	18.1	10 28	0 34.80	-11 51.2	2.129	3.002	10.8	21.0
11 7	0 29.07	+ 0 27.0	2.123	2.968	11.9	18.3	11 7	0 30.43	-11 56.3	2.216	3.005	13.3	21.2
<b>170575</b>	2003 XM <sub>9</sub>	10	6.4 260°90	7°1/30.9	18		<b>260422</b>	2004 XL <sub>77</sub>	10	6.4 315°04	4°0/10.9	18	
8 29	1 22.12	-14 21.3	1.963	2.795	14.1	19.7	8 29	1 10.37	+19 57.2	2.243			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>12074</b>	Carolinelau	10 6.4	74°19	0°5/ 6.9	18		<b>10887</b>	1996 XU <sub>25</sub>	10 6.4	344°60	0°4/ 6.8	18	
8 29	1 12.11	+11 29.5	1.678	2.494	16.7	18.3	8 29	1 11.26	+ 9 6.5	1.914	2.731	14.9	17.9
9 8	1 8.66	+10 39.0	1.612	2.508	13.1	18.1	9 8	1 7.89	+ 8 44.3	1.831	2.729	11.8	17.7
9 18	1 2.95	+ 9 29.3	1.567	2.522	9.0	17.9	9 18	1 2.44	+ 8 7.8	1.770	2.727	8.0	17.5
9 28	0 55.62	+ 8 4.8	1.546	2.536	4.3	17.7	9 28	0 55.44	+ 7 19.8	1.734	2.725	3.9	17.2
10 8	0 47.63	+ 6 32.6	1.552	2.551	0.7	17.4	10 8	0 47.69	+ 6 25.0	1.724	2.723	0.7	17.0
10 18	0 40.01	+ 5 1.6	1.586	2.565	5.3	17.8	10 18	0 40.11	+ 5 29.5	1.743	2.722	4.9	17.3
10 28	0 33.73	+ 3 40.4	1.647	2.579	9.6	18.1	10 28	0 33.64	+ 4 39.7	1.788	2.720	8.9	17.5
11 7	0 29.48	+ 2 35.4	1.732	2.593	13.3	18.3	11 7	0 28.98	+ 4 1.0	1.858	2.719	12.5	17.8
<b>137474</b>	1999 UT <sub>17</sub>	10 6.4	46°00	0°9/ 5.7	18		<b>422052</b>	2014 QT <sub>365</sub>	10 6.4	330°49	2°0/ 8.2	17	
8 29	1 13.98	+ 7 3.3	1.170	2.023	20.3	19.6	8 29	1 10.25	+12 5.9	1.891	2.701	15.4	21.1
9 8	1 10.89	+ 6 24.3	1.120	2.039	15.7	19.4	9 8	1 7.30	+12 9.3	1.797	2.686	12.4	20.9
9 18	1 4.79	+ 5 26.6	1.088	2.055	10.5	19.1	9 18	1 2.19	+11 57.5	1.723	2.671	8.8	20.6
9 28	0 56.55	+ 4 16.2	1.078	2.073	4.7	18.9	9 28	0 55.39	+11 31.4	1.672	2.658	4.9	20.4
10 8	0 47.47	+ 3 2.7	1.092	2.090	1.6	18.7	10 8	0 47.69	+10 54.1	1.648	2.644	2.0	20.1
10 18	0 38.98	+ 1 56.2	1.131	2.109	7.1	19.1	10 18	0 40.04	+10 10.4	1.651	2.632	4.8	20.3
10 28	0 32.39	+ 1 5.6	1.194	2.127	12.2	19.5	10 28	0 33.44	+ 9 26.7	1.681	2.620	8.8	20.5
11 7	0 28.50	+ 0 35.9	1.277	2.146	16.5	19.8	11 7	0 28.68	+ 8 49.1	1.735	2.609	12.6	20.7
<b>451140</b>	2009 QP <sub>54</sub>	10 6.4	43°92	1°1/ 5.2	18		<b>20021</b>	1991 VM <sub>6</sub>	10 6.4	171°35	8°4/28.0	18	
8 29	1 10.24	+ 5 11.6	2.041	2.869	13.7	21.4	8 29	1 16.51	-16 39.3	1.947	2.789	13.7	17.8
9 8	1 6.84	+ 4 29.2	1.969	2.876	10.6	21.2	9 8	1 11.82	-17 57.8	1.891	2.791	11.3	17.6
9 18	1 1.57	+ 3 35.8	1.920	2.883	7.0	21.0	9 18	1 4.96	-19 11.0	1.857	2.792	9.3	17.5
9 28	0 54.96	+ 2 35.4	1.897	2.890	3.2	20.8	9 28	0 56.56	-20 10.2	1.848	2.793	8.4	17.4
10 8	0 47.76	+ 1 33.9	1.901	2.898	1.6	20.7	10 8	0 47.50	-20 48.2	1.865	2.794	9.3	17.5
10 18	0 40.81	+ 0 37.1	1.933	2.905	5.3	21.0	10 18	0 38.79	-21 0.6	1.908	2.795	11.3	17.6
10 28	0 34.89	- 0 9.3	1.993	2.913	8.9	21.2	10 28	0 31.36	-20 46.2	1.973	2.795	13.7	17.8
11 7	0 30.64	- 0 41.5	2.077	2.921	12.1	21.4	11 7	0 25.89	-20 6.9	2.059	2.795	15.9	18.0
<b>389286</b>	2009 HE <sub>84</sub>	10 6.4	93°78	1°3/ 4.9	18		<b>49490</b>	1999 BX <sub>24</sub>	10 6.4	231°30	3°9/10.8	18	
8 29	1 10.59	+ 6 33.6	2.068	2.890	13.8	20.7	8 29	1 13.30	+19 56.9	2.391	3.141	14.2	18.7
9 8	1 7.03	+ 5 22.3	1.999	2.903	10.6	20.5	9 8	1 9.24	+19 57.5	2.288	3.131	11.8	18.5
9 18	1 1.65	+ 3 57.9	1.953	2.915	7.0	20.3	9 18	1 3.27	+19 40.6	2.205	3.120	9.1	18.3
9 28	0 54.98	+ 2 25.5	1.934	2.928	3.1	20.1	9 28	0 55.83	+19 5.9	2.146	3.109	6.1	18.1
10 8	0 47.77	+ 0 52.3	1.943	2.940	1.8	20.0	10 8	0 47.62	+18 15.2	2.115	3.098	4.0	17.9
10 18	0 40.83	- 0 34.5	1.982	2.952	5.4	20.3	10 18	0 39.47	+17 12.3	2.112	3.086	4.7	18.0
10 28	0 34.95	- 1 48.3	2.049	2.964	9.0	20.5	10 28	0 32.22	+16 3.3	2.139	3.074	7.5	18.1
11 7	0 30.72	- 2 44.8	2.140	2.975	12.1	20.7	11 7	0 26.58	+14 54.8	2.191	3.061	10.5	18.3
<b>356603</b>	2011 TF <sub>12</sub>	10 6.4	272°07	2°3/ 4.3	18		<b>268133</b>	2004 TZ <sub>121</sub>	10 6.4	312°88	0°7/ 5.7	17	
8 29	1 14.21	+ 0 58.5	1.963	2.796	14.0	21.3	8 29	1 8.07	+ 8 7.4	1.889	2.717	14.7	20.5
9 8	1 10.18	+ 0 28.5	1.874	2.784	10.9	21.1	9 8	1 5.73	+ 7 13.7	1.776	2.681	11.6	20.2
9 18	1 3.99	- 0 9.7	1.808	2.772	7.3	20.8	9 18	1 1.24	+ 6 1.6	1.684	2.646	7.9	19.9
9 28	0 56.17	- 0 51.9	1.767	2.759	3.6	20.6	9 28	0 55.02	+ 4 34.6	1.617	2.611	3.6	19.6
10 8	0 47.52	- 1 32.5	1.754	2.747	2.8	20.5	10 8	0 47.77	+ 2 58.9	1.578	2.576	1.3	19.3
10 18	0 38.98	- 2 5.9	1.768	2.735	6.3	20.7	10 18	0 40.42	+ 1 22.8	1.566	2.541	5.9	19.6
10 28	0 31.52	- 2 27.3	1.810	2.722	10.2	20.9	10 28	0 33.99	- 0 4.4	1.581	2.506	10.4	19.8
11 7	0 25.89	- 2 33.5	1.875	2.710	13.6	21.1	11 7	0 29.36	- 1 15.0	1.620	2.472	14.5	19.9
<b>321395</b>	2009 PS <sub>15</sub>	10 6.4	344°73	1°4/ 4.8	18		<b>141699</b>	2002 KY <sub>10</sub>	10 6.4	172°37	2°0/ 9.2	18	
8 29	1 8.11	+ 5 45.1	2.020	2.851	13.7	20.1	8 29	1 12.54	+15 9.5	3.162	3.920	10.9	21.3
9 8	1 5.30	+ 4 43.8	1.939	2.848	10.6	19.9	9 8	1 7.99	+15 1.6	3.068	3.924	8.8	21.2
9 18	1 0.62	+ 3 29.2	1.881	2.845	7.0	19.7	9 18	1 2.07	+14 42.4	2.998	3.927	6.4	21.0
9 28	0 54.55	+ 2 6.1	1.848	2.842	3.2	19.4	9 28	0 55.16	+14 12.7	2.954	3.930	3.8	20.9
10 8	0 47.84	+ 0 41.2	1.844	2.840	1.9	19.3	10 8	0 47.78	+13 34.6	2.940	3.932	2.0	20.8
10 18	0 41.30	- 0 38.2	1.867	2.838	5.6	19.6	10 18	0 40.51	+12 51.2	2.956	3.933	3.3	20.8
10 28	0 35.75	- 1 45.5	1.918	2.836	9.4	19.8	10 28	0 33.95	+12 6.2	3.002	3.934	5.8	21.0
11 7	0 31.83	- 2 35.8	1.993	2.834	12.7	20.0	11 7	0 28.56	+11 23.8	3.077	3.934	8.2	21.2
<b>88241</b>	2001 CD <sub>23</sub>	10 6.4	129°53	1°0/ 8.4	18		<b>86197</b>	1999 SP <sub>15</sub>	10 6.4	39°15	4°2/10.4	18	
8 29	1 5.00	+12 16.0	4.539	5.312	7.6	19.9	8 29	1 14.41	+17 50.9	1.979	2.752	16.0	19.3
9 8	1 1.80	+12 6.6	4.446	5.314	6.0	19.7	9 8	1 10.34	+18 18.7	1.901	2.759	13.2	19.2
9 18	0 57.74	+11 50.2	4.377	5.315	4.3	19.6	9 18	1 4.09	+18 29.3	1.842	2.767	10.0	19.0
9 28	0 53.08	+11 28.0	4.335	5.317	2.4	19.5	9 28	0 56.21	+18 22.1	1.808	2.775	6.7	18.8
10 8	0 48.14	+11 1.5	4.323	5.319	1.0	19.4	10 8	0 47.57	+17 58.5	1.799	2.783	4.4	18.7
10 18	0 43.26	+10 32.6	4.342	5.320	2.2	19.5	10 18	0 39.13	+17 22.4	1.818	2.792	5.3	18.8
10 28	0 38.81	+10 3.6	4.390	5.322	4.1	19.6	10 28	0 31.87	+16 39.8	1.864	2.801	8.3	19.0
11 7	0 35.07	+ 9 36.7	4.467	5.323	5.9	19.7	11 7	0 26.52	+15 57.2	1.935	2.810	11.4	19.2
<b>347572</b>	2000 YZ <sub>55</sub>	10 6.4	11°58	16°5/15.3	18		<b>453612</b>	2010 OR <sub>88</sub>	10 6.4	336°80	6°8/30.6	18	
8 29	1 15.38	-36 23.3	1.598	2.412	17.5	19.5	8 29	1 15.33	-12 7.5	1.864	2.712	14.0	20.9
9 8	1 11.86	-38 49.6	1.580	2.412	16.7	19.4	9 8	1 11.04	-12 53.1	1.795	2.706	11.2	20.7
9 18	1 5.39	-40 50.1	1.581	2.414	16.6	19.4	9 18	1 4.54	-13 36.3	1.749	2.701	8.5	20.6
9 28	0 56.81	-42 12.8	1.601	2.415	17.1	19.4	9 28	0 56.40	-14 9.9	1.727	2.695	6.8	20.5
10 8	0 47.42	-42 50.7	1.638	2.417	18.1	19.5	10 8	0 47.55	-14 27.4	1.732	2.691	7.4	20.5
10 18	0 38.62	-42 42.1	1.692	2.419	19.4	19.6	10 18	0 38.96	-14 24.5	1.762	2.686	9.8	20.6
10 28	0 31.66	-41 50.1	1.760	2.422	20.7	19.8	10 28	0 31.64	-13 59.3	1.817	2.682	12.7	20.8
11 7	0 27.34	-40 21.9	1.840	2.425	21.8	19.9	11 7	0 26.29	-13 12.9	1.894	2.679	15.4	21.0
<b>107624</b>	2001 EN <sub>9</sub>	10 6.4	291°20	4°0/ 2.3	18		<b>166299</b>	2002 JN <sub>8</sub>	10 6.4	108°40	1°8/ 4.5	18	
8 29	1 9.93	+ 0 23.1	1.720	2.571	14.9	19.6	8 29	1 13.80	+ 4 3.8	1.943	2.770	14.4	



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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>99570</b>	2002 <i>FS</i> <sub>14</sub>	10 6.4 243°80	0°6/ 5.8 18				<b>292600</b>	2006 <i>TU</i> <sub>107</sub>	10 6.4 301°46	2°4/11.7 18			
8 29	1 11.36	+ 8 41.9	1.890	2.710	15.0	20.1	8 29	1 4.25	+21 6.2	4.560	5.283	8.2	20.9
9 8	1 8.05	+ 7 40.6	1.801	2.702	11.7	19.9	9 8	1 1.30	+20 55.2	4.458	5.282	6.9	20.8
9 18	1 2.61	+ 6 21.9	1.733	2.693	7.9	19.6	9 18	0 57.47	+20 34.3	4.379	5.281	5.3	20.7
9 28	0 55.56	+ 4 50.1	1.691	2.684	3.6	19.3	9 28	0 53.01	+20 3.9	4.326	5.279	3.7	20.5
10 8	0 47.71	+ 3 12.3	1.677	2.675	1.2	19.1	10 8	0 48.26	+19 25.5	4.302	5.278	2.6	20.5
10 18	0 39.99	+ 1 36.8	1.692	2.666	5.6	19.4	10 18	0 43.58	+18 40.9	4.307	5.277	2.8	20.5
10 28	0 33.36	+ 0 12.1	1.734	2.657	9.8	19.7	10 28	0 39.32	+17 52.8	4.343	5.275	4.1	20.6
11 7	0 28.58	- 0 55.3	1.800	2.647	13.5	19.9	11 7	0 35.81	+17 4.2	4.407	5.274	5.7	20.7
<b>435120</b>	2007 <i>DF</i> <sub>111</sub>	10 6.4 206°29	0°5/ 6.9 18				<b>436953</b>	2012 <i>TW</i> <sub>151</sub>	10 6.4 52°84	0°0/ 6.3 18			
8 29	1 15.59	+ 9 20.5	1.900	2.709	15.3	22.4	8 29	1 13.09	+ 8 32.9	1.505	2.337	17.6	21.2
9 8	1 11.33	+ 8 58.8	1.813	2.705	12.1	22.2	9 8	1 9.68	+ 7 57.7	1.445	2.351	13.7	20.9
9 18	1 4.81	+ 8 22.2	1.747	2.701	8.3	21.9	9 18	1 3.78	+ 7 5.3	1.404	2.365	9.2	20.7
9 28	0 56.59	+ 7 33.4	1.707	2.697	4.1	21.7	9 28	0 56.11	+ 6 0.4	1.386	2.379	4.3	20.5
10 8	0 47.52	+ 6 37.1	1.693	2.692	0.7	21.4	10 8	0 47.69	+ 4 50.2	1.395	2.393	0.9	20.3
10 18	0 38.60	+ 5 39.4	1.708	2.687	5.1	21.7	10 18	0 39.68	+ 3 42.9	1.430	2.408	5.8	20.6
10 28	0 30.86	+ 4 47.2	1.751	2.681	9.3	22.0	10 28	0 33.17	+ 2 46.3	1.491	2.423	10.4	21.0
11 7	0 25.07	+ 4 6.1	1.819	2.674	13.0	22.2	11 7	0 28.88	+ 2 6.1	1.575	2.438	14.3	21.2
<b>350038</b>	2010 <i>KW</i> <sub>14</sub>	10 6.4 136°54	3°6/10.6 18				<b>261567</b>	2005 <i>WY</i> <sub>176</sub>	10 6.4 281°47	1°6/ 4.8 18			
8 29	1 13.93	+19 25.6	2.368	3.120	14.2	21.1	8 29	1 12.13	+ 2 27.6	2.208	3.035	12.9	21.5
9 8	1 9.56	+19 22.2	2.285	3.130	11.8	20.9	9 8	1 8.27	+ 1 58.0	2.124	3.030	10.0	21.3
9 18	1 3.36	+19 1.6	2.222	3.140	8.9	20.7	9 18	1 2.57	+ 1 20.3	2.062	3.025	6.6	21.1
9 28	0 55.82	+18 23.9	2.184	3.149	5.9	20.6	9 28	0 55.51	+ 0 38.0	2.027	3.020	3.1	20.8
10 8	0 47.68	+17 31.8	2.173	3.158	3.7	20.4	10 8	0 47.80	- 0 4.0	2.020	3.015	2.0	20.8
10 18	0 39.74	+16 29.6	2.192	3.166	4.5	20.5	10 18	0 40.23	- 0 40.8	2.041	3.010	5.4	21.0
10 28	0 32.81	+15 23.2	2.239	3.174	7.2	20.7	10 28	0 33.61	- 1 7.9	2.090	3.005	8.9	21.2
11 7	0 27.49	+14 19.0	2.313	3.182	10.1	20.9	11 7	0 28.58	- 1 22.1	2.164	3.000	12.0	21.4
<b>98970</b>	2001 <i>DL</i> <sub>12</sub>	10 6.4 232°44	3°7/ 1.8 18				<b>188332</b>	2003 <i>QD</i> <sub>3</sub>	10 6.4 39°61	0°4/ 5.9 18			
8 29	1 9.93	- 3 22.0	2.395	3.234	11.6	20.0	8 29	1 10.91	+ 7 24.1	1.743	2.573	15.6	20.1
9 8	1 6.40	- 4 30.1	2.316	3.229	8.9	19.8	9 8	1 7.57	+ 6 45.7	1.689	2.595	12.1	19.9
9 18	1 1.21	- 5 43.4	2.262	3.225	6.1	19.6	9 18	1 2.14	+ 5 53.7	1.655	2.617	8.0	19.7
9 28	0 54.82	- 6 56.4	2.235	3.220	3.9	19.4	9 28	0 55.27	+ 4 52.6	1.646	2.639	3.6	19.5
10 8	0 47.87	- 8 3.2	2.237	3.216	4.3	19.5	10 8	0 47.87	+ 3 48.8	1.664	2.663	1.0	19.4
10 18	0 41.07	- 8 58.1	2.267	3.211	6.8	19.6	10 18	0 40.86	+ 2 49.2	1.710	2.686	5.3	19.7
10 28	0 35.13	- 9 37.1	2.324	3.206	9.6	19.8	10 28	0 35.12	+ 1 59.8	1.782	2.710	9.2	20.0
11 7	0 30.61	- 9 58.2	2.405	3.201	12.2	20.0	11 7	0 31.26	+ 1 25.1	1.877	2.734	12.6	20.3
<b>228107</b>	2008 <i>SS</i> <sub>231</sub>	10 6.4 8°54	1°0/ 8.3 18				<b>132299</b>	2002 <i>GK</i> <sub>3</sub>	10 6.4 259°84	2°2/ 8.9 18			
8 29	1 4.78	+12 10.6	4.264	5.040	8.0	21.0	8 29	1 10.47	+17 59.5	1.861	2.645	16.5	20.0
9 8	1 1.71	+11 56.4	4.170	5.040	6.4	20.9	9 8	1 7.51	+16 59.3	1.764	2.636	13.5	19.8
9 18	0 57.73	+11 34.6	4.100	5.041	4.5	20.8	9 18	1 2.34	+15 33.1	1.688	2.627	9.8	19.6
9 28	0 53.12	+11 6.6	4.058	5.041	2.5	20.6	9 28	0 55.49	+13 43.0	1.636	2.617	5.6	19.3
10 8	0 48.21	+10 34.0	4.045	5.041	1.0	20.5	10 8	0 47.81	+11 35.1	1.612	2.608	2.3	19.1
10 18	0 43.37	+ 9 59.2	4.063	5.042	2.3	20.6	10 18	0 40.26	+ 9 19.0	1.617	2.598	4.8	19.2
10 28	0 38.97	+ 9 24.6	4.110	5.042	4.3	20.8	10 28	0 33.86	+ 7 6.1	1.650	2.588	9.1	19.5
11 7	0 35.33	+ 8 52.8	4.186	5.042	6.2	20.9	11 7	0 29.37	+ 5 6.8	1.710	2.578	13.1	19.7
<b>370538</b>	2003 <i>SD</i> <sub>410</sub>	10 6.4 244°98	0°3/ 6.7 17				<b>459444</b>	2012 <i>UF</i> <sub>158</sub>	10 6.4 233°66	12°0/12.3 17			
8 29	1 14.15	+ 9 56.9	1.514	2.339	17.8	21.6	8 29	1 29.28	+25 30.2	1.333	2.077	23.7	20.9
9 8	1 10.80	+ 9 21.8	1.431	2.333	14.1	21.3	9 8	1 24.16	+27 37.9	1.247	2.069	20.9	20.7
9 18	1 4.77	+ 8 26.9	1.368	2.327	9.7	21.0	9 18	1 14.90	+29 25.9	1.176	2.061	17.6	20.4
9 28	0 56.68	+ 7 15.3	1.329	2.320	4.7	20.7	9 28	1 1.92	+30 43.7	1.125	2.052	14.3	20.2
10 8	0 47.53	+ 5 54.0	1.315	2.314	0.8	20.4	10 8	0 46.52	+31 23.0	1.096	2.043	12.2	20.1
10 18	0 38.55	+ 4 31.9	1.328	2.307	6.1	20.8	10 18	0 30.74	+31 20.9	1.090	2.033	12.4	20.1
10 28	0 31.00	+ 3 18.8	1.367	2.300	11.0	21.1	10 28	0 16.89	+30 43.6	1.108	2.023	14.8	20.2
11 7	0 25.80	+ 2 22.4	1.428	2.293	15.4	21.3	11 7	0 6.75	+29 45.0	1.147	2.013	18.2	20.4
<b>501105</b>	2013 <i>SA</i> <sub>87</sub>	10 6.4 21°91	0°2/10.3 17				<b>229349</b>	2005 <i>QR</i> <sub>52</sub>	10 6.4 325°83	1°2/ 5.6 18			
8 29	0 51.89	+15 31.8	38.220	38.965	1.0	23.1	8 29	1 12.22	+ 4 44.4	1.301	2.155	18.5	19.9
9 8	0 51.24	+15 27.5	38.121	38.966	0.8	23.1	9 8	1 9.77	+ 4 26.6	1.220	2.140	14.6	19.6
9 18	0 50.50	+15 22.3	38.047	38.967	0.6	23.1	9 18	1 4.37	+ 3 53.7	1.158	2.126	9.9	19.3
9 28	0 49.71	+15 16.4	38.000	38.967	0.4	23.0	9 28	0 56.61	+ 3 9.8	1.118	2.113	4.5	19.0
10 8	0 48.89	+15 9.8	37.982	38.968	0.2	23.0	10 8	0 47.58	+ 2 22.0	1.102	2.100	1.9	18.8
10 18	0 48.08	+15 2.8	37.994	38.969	0.3	23.0	10 18	0 38.66	+ 1 38.5	1.111	2.088	7.3	19.1
10 28	0 47.30	+14 55.5	38.036	38.970	0.5	23.1	10 28	0 31.29	+ 1 7.6	1.143	2.077	12.6	19.3
11 7	0 46.59	+14 48.2	38.106	38.971	0.7	23.1	11 7	0 26.52	+ 0 54.9	1.197	2.067	17.3	19.6
<b>428620</b>	2008 <i>FD</i> <sub>38</sub>	10 6.4 186°11	1°9/ 4.8 17				<b>67210</b>	2000 <i>DF</i> <sub>29</sub>	10 6.4 6°82	2°5/ 3.8 18			
8 29	1 16.64	+ 3 19.3	1.785	2.614	15.4	22.4	8 29	1 9.06	+ 1 23.4	1.883	2.728	14.0	18.0
9 8	1 12.19	+ 2 38.2	1.707	2.614	11.9	22.2	9 8	1 6.15	+ 0 33.2	1.812	2.728	10.8	17.7
9 18	1 5.40	+ 1 45.7	1.651	2.614	7.9	21.9	9 18	1 1.26	- 0 26.2	1.763	2.730	7.1	17.5
9 28	0 56.87	+ 0 46.7	1.620	2.613	3.7	21.7	9 28	0 54.92	- 1 29.5	1.739	2.732	3.6	17.3
10 8	0 47.52	- 0 12.3	1.616	2.612	2.4	21.6	10 8	0 47.94	- 2 30.1	1.742	2.734	3.1	17.3
10 18	0 38.41	- 1 4.5	1.641	2.610	6.4	21.8	10 18	0 41.18	- 3 21.5	1.773	2.737	6.5	17.5
10 28	0 30.57	- 1 43.6	1.692	2.607	10.6	22.1	10 28	0 35.50	- 3 58.5	1.829	2.741	10.1	17.8
11 7	0 24.79	- 2 5.9	1.767	2.604	14.2	22.3	11 7	0 31.57	- 4 17.9	1.909	2.745	13.3	18.0
<b>356692</b>	2011 <i>UF</i> <sub>125</sub>	10 6.4 329°48	1°4/ 7.5 18				<b>229811</b>	2008 <i>ST</i> <sub>187</sub>	10 6.4 332°10	0°9/ 8.2 18			
8 29	1 14.0												

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10 6.4

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>479864</b>	2014 <i>GC</i> <sub>37</sub>	10 6.4 123°09	2°8/ 3.9 18				<b>104102</b>	2000 <i>EB</i> <sub>43</sub>	10 6.4 279°97	0°3/ 6.9 18			
8 29	1 15.15	- 0 24.7	1.851	2.688	14.5	21.0	8 29	1 9.04	+ 8 5.7	3.183	3.980	10.0	19.8
9 8	1 10.91	- 0 59.5	1.778	2.690	11.2	20.8	9 8	1 5.38	+ 7 52.7	3.079	3.965	7.9	19.6
9 18	1 4.47	- 1 41.4	1.727	2.691	7.5	20.6	9 18	1 0.42	+ 7 31.6	2.999	3.951	5.4	19.4
9 28	0 56.43	- 2 25.5	1.701	2.693	3.9	20.4	9 28	0 54.49	+ 7 3.9	2.946	3.936	2.6	19.2
10 8	0 47.66	- 3 5.5	1.703	2.694	3.4	20.3	10 8	0 48.07	+ 6 32.4	2.922	3.921	0.5	19.0
10 18	0 39.15	- 3 36.0	1.732	2.695	6.8	20.6	10 18	0 41.69	+ 5 59.9	2.929	3.906	3.3	19.2
10 28	0 31.86	- 3 52.5	1.788	2.697	10.5	20.8	10 28	0 35.89	+ 5 29.9	2.965	3.891	6.0	19.4
11 7	0 26.51	- 3 52.6	1.868	2.698	13.8	21.0	11 7	0 31.17	+ 5 5.4	3.028	3.876	8.6	19.5
<b>278368</b>	2007 <i>LU</i> <sub>1</sub>	10 6.4 98°15	2°5/ 4.0 18				<b>411921</b>	2012 <i>FR</i> <sub>73</sub>	10 6.4 194°99	0°7/ 5.5 18			
8 29	1 15.23	+ 2 2.1	1.787	2.621	15.1	20.7	8 29	1 12.17	+ 4 21.3	2.880	3.688	10.7	21.6
9 8	1 10.87	+ 1 5.6	1.728	2.639	11.6	20.5	9 8	1 7.85	+ 3 59.3	2.791	3.686	8.3	21.4
9 18	1 4.34	- 0 0.7	1.691	2.656	7.6	20.3	9 18	1 2.07	+ 3 30.2	2.726	3.683	5.5	21.3
9 28	0 56.31	- 1 10.8	1.680	2.673	3.7	20.1	9 28	0 55.25	+ 2 56.5	2.688	3.681	2.5	21.0
10 8	0 47.70	- 2 17.3	1.697	2.689	3.1	20.1	10 8	0 47.94	+ 2 21.6	2.680	3.678	1.1	20.9
10 18	0 39.47	- 3 13.5	1.741	2.705	6.6	20.4	10 18	0 40.73	+ 1 48.8	2.702	3.674	4.0	21.2
10 28	0 32.57	- 3 54.1	1.812	2.721	10.4	20.6	10 28	0 34.26	+ 1 21.9	2.754	3.670	6.9	21.3
11 7	0 27.64	- 4 16.3	1.907	2.737	13.6	20.9	11 7	0 29.02	+ 1 3.5	2.832	3.666	9.5	21.5
<b>36316</b>	2000 <i>LC</i> <sub>12</sub>	10 6.4 75°66	15°6/ 22.2 18 R				<b>348392</b>	2005 <i>GS</i> <sub>127</sub>	10 6.4 192°89	8°1/ 27.1 17			
8 29	1 14.99	- 20 20.0	1.053	1.932	20.1	17.1	8 29	1 14.46	- 10 24.2	1.782	2.634	14.4	21.0
9 8	1 12.19	- 23 39.1	1.031	1.943	17.3	17.0	9 8	1 10.56	- 12 46.1	1.719	2.632	11.5	20.8
9 18	1 5.92	- 26 41.8	1.028	1.954	15.7	17.0	9 18	1 4.35	- 15 11.0	1.681	2.630	9.0	20.6
9 28	0 57.19	- 29 7.8	1.045	1.966	15.9	17.0	9 28	0 56.44	- 17 27.1	1.670	2.628	8.1	20.6
10 8	0 47.54	- 30 42.7	1.083	1.977	17.5	17.2	10 8	0 47.71	- 19 22.8	1.686	2.624	9.4	20.7
10 18	0 38.67	- 31 21.3	1.139	1.989	19.9	17.4	10 18	0 39.22	- 20 49.6	1.728	2.621	12.0	20.8
10 28	0 32.01	- 31 6.6	1.211	2.000	22.4	17.6	10 28	0 31.99	- 21 42.9	1.794	2.616	14.8	21.0
11 7	0 28.40	- 30 7.6	1.296	2.011	24.5	17.8	11 7	0 26.79	- 22 3.3	1.879	2.611	17.4	21.2
<b>144715</b>	2004 <i>GN</i> <sub>26</sub>	10 6.4 95°27	4°7/ 1.9 18				<b>11918</b>	1992 <i>UY</i>	10 6.4 348°18	1°6/ 5.2 18			
8 29	1 15.60	- 6 59.5	2.050	2.890	13.2	20.1	8 29	1 5.06	+ 7 25.6	1.056	1.929	20.5	17.4
9 8	1 10.92	- 7 43.6	1.988	2.899	10.3	20.0	9 8	1 4.58	+ 6 27.6	0.989	1.920	16.1	17.1
9 18	1 4.29	- 8 28.9	1.950	2.909	7.2	19.8	9 18	1 1.05	+ 5 4.4	0.938	1.911	10.8	16.7
9 28	0 56.28	- 9 9.6	1.937	2.918	5.0	19.7	9 28	0 55.11	+ 3 22.6	0.909	1.905	4.8	16.4
10 8	0 47.71	- 9 40.0	1.952	2.927	5.3	19.7	10 8	0 47.95	+ 1 34.5	0.901	1.899	2.4	16.2
10 18	0 39.47	- 9 55.8	1.995	2.936	7.8	19.9	10 18	0 41.03	- 0 5.8	0.917	1.895	8.3	16.6
10 28	0 32.39	- 9 54.3	2.064	2.944	10.7	20.1	10 28	0 35.84	- 1 25.1	0.955	1.892	14.0	16.9
11 7	0 27.10	- 9 35.2	2.155	2.953	13.4	20.3	11 7	0 33.38	- 2 15.2	1.011	1.891	18.9	17.2
<b>189870</b>	2003 <i>QO</i> <sub>21</sub>	10 6.4 263°93	0°6/ 7.0 18				<b>189815</b>	2002 <i>NK</i> <sub>28</sub>	10 6.4 139°43	8°0/ 18.1 18			
8 29	1 15.95	+ 7 21.4	2.404	3.204	12.8	19.5	8 29	1 16.03	+ 36 9.9	2.844	3.463	14.6	20.1
9 8	1 11.15	+ 7 31.9	2.310	3.197	10.1	19.3	9 8	1 11.32	+ 36 56.5	2.754	3.471	13.2	20.0
9 18	1 4.49	+ 7 33.8	2.239	3.190	6.9	19.1	9 18	1 4.67	+ 37 23.5	2.681	3.478	11.5	19.9
9 28	0 56.44	+ 7 28.3	2.194	3.183	3.4	18.9	9 28	0 56.55	+ 37 27.7	2.628	3.485	9.9	19.8
10 8	0 47.67	+ 7 18.0	2.178	3.177	0.7	18.6	10 8	0 47.69	+ 37 8.1	2.599	3.492	8.6	19.7
10 18	0 38.99	+ 7 5.8	2.192	3.170	4.1	18.9	10 18	0 38.93	+ 36 25.9	2.596	3.498	8.0	19.7
10 28	0 31.22	+ 6 55.5	2.235	3.163	7.6	19.1	10 28	0 31.14	+ 35 25.3	2.619	3.504	8.5	19.7
11 7	0 25.01	+ 6 50.4	2.303	3.156	10.8	19.3	11 7	0 24.99	+ 34 12.5	2.667	3.510	9.8	19.8
<b>156939</b>	Odegard	10 6.4 48°36	6°1/ 30.9 18				<b>152468</b>	2005 <i>VN</i> <sub>114</sub>	10 6.4 86°58	0°7/ 5.6 18			
8 29	1 11.82	- 3 46.6	1.358	2.226	17.1	19.0	8 29	1 11.12	+ 6 9.8	2.162	2.982	13.3	20.9
9 8	1 8.81	- 5 29.3	1.315	2.242	13.1	18.8	9 8	1 7.49	+ 5 30.8	2.085	2.986	10.3	20.7
9 18	1 3.22	- 7 18.4	1.292	2.260	9.1	18.6	9 18	1 2.04	+ 4 40.6	2.030	2.991	6.9	20.5
9 28	0 55.85	- 9 2.8	1.293	2.277	6.3	18.5	9 28	0 55.29	+ 3 42.7	2.002	2.995	3.1	20.3
10 8	0 47.81	- 10 31.0	1.320	2.296	7.1	18.6	10 8	0 47.95	+ 2 42.5	2.001	2.999	1.2	20.2
10 18	0 40.29	- 11 34.4	1.371	2.314	10.4	18.9	10 18	0 40.80	+ 1 45.5	2.030	3.004	4.9	20.4
10 28	0 34.38	- 12 8.5	1.446	2.333	14.0	19.1	10 28	0 34.65	+ 0 57.3	2.086	3.008	8.5	20.7
11 7	0 30.76	- 12 13.3	1.540	2.352	17.2	19.4	11 7	0 30.08	+ 0 21.8	2.167	3.012	11.6	20.9
<b>428572</b>	2008 <i>DZ</i> <sub>11</sub>	10 6.4 159°26	3°3/ 3.3 17				<b>223464</b>	2003 <i>UY</i> <sub>101</sub>	10 6.4 39°81	2°1/ 4.5 18			
8 29	1 16.91	- 0 6.3	1.863	2.696	14.6	22.0	8 29	1 12.68	+ 1 5.1	1.967	2.802	13.9	19.7
9 8	1 12.21	- 1 7.7	1.793	2.703	11.3	21.8	9 8	1 8.77	+ 0 37.8	1.903	2.814	10.7	19.5
9 18	1 5.31	- 2 17.8	1.746	2.709	7.5	21.6	9 18	1 2.92	+ 0 3.4	1.862	2.827	7.0	19.3
9 28	0 56.81	- 3 30.3	1.725	2.715	4.1	21.4	9 28	0 55.69	- 0 33.9	1.846	2.839	3.4	19.1
10 8	0 47.62	- 4 37.7	1.731	2.720	3.9	21.4	10 8	0 47.89	- 1 8.8	1.858	2.852	2.5	19.1
10 18	0 38.72	- 5 33.1	1.767	2.724	7.2	21.6	10 18	0 40.40	- 1 36.6	1.898	2.866	5.8	19.3
10 28	0 31.09	- 6 11.4	1.829	2.727	10.9	21.9	10 28	0 34.04	- 1 53.0	1.965	2.879	9.4	19.6
11 7	0 25.44	- 6 30.1	1.914	2.730	14.1	22.1	11 7	0 29.44	- 1 55.8	2.055	2.893	12.4	19.8
<b>509629</b>	2008 <i>FL</i> <sub>73</sub>	10 6.4 251°82	2°6/ 4.2 18				<b>516352</b>	2017 <i>BA</i> <sub>105</sub>	10 6.4 167°71	3°1/ 2.8 18			
8 29	1 17.33	+ 1 36.4	1.835	2.664	15.0	23.0	8 29	1 12.14	- 3 1.5	2.472	3.304	11.5	21.4
9 8	1 12.96	+ 0 50.9	1.736	2.644	11.7	22.7	9 8	1 8.03	- 3 45.4	2.397	3.306	8.8	21.2
9 18	1 6.13	- 0 6.0	1.659	2.622	7.9	22.5	9 18	1 2.29	- 4 33.5	2.345	3.307	6.0	21.0
9 28	0 57.36	- 1 9.2	1.608	2.600	3.9	22.2	9 28	0 55.39	- 5 21.1	2.321	3.309	3.5	20.9
10 8	0 47.49	- 2 11.9	1.584	2.577	3.2	22.1	10 8	0 47.97	- 6 3.5	2.326	3.310	3.6	20.9
10 18	0 37.62	- 3 6.7	1.589	2.553	7.1	22.3	10 18	0 40.72	- 6 36.1	2.359	3.311	6.1	21.0
10 28	0 28.87	- 3 47.0	1.620	2.528	11.4	22.5	10 28	0 34.36	- 6 55.8	2.420	3.311	8.9	21.2
11 7	0 22.17	- 4 8.6	1.674	2.503	15.3	22.7	11 7	0 29.42	- 7 0.8	2.505	3.312	11.5	21.4
<b>245351</b>	2005 <i>EC</i> <sub>242</sub>	10 6.4 120°71	3°6/ 2.5 18				<b>358876</b>	2008 <i>FU</i> <sub>126</sub>	10 6.4 132°83	1°4/ 4.6 18			
8 29	1 15.64												

EPHEMERIDES

10 6.4

10 6.5

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>91109</b>	1998 <i>HG</i> <sub>38</sub>	10	6.4 263°82	1.1°/ 5.7 18			<b>380731</b>	2005 <i>RU</i> <sub>47</sub>	10	6.5 318°42	4.5°/ 3.5 18		
8 29	1 21.21	+ 1 59.7	1.755	2.579	15.8	17.8	8 29	1 16.62	- 3 19.2	1.384	2.241	17.4	20.6
9 8	1 15.89	+ 2 9.9	1.673	2.576	12.4	17.6	9 8	1 13.02	- 3 46.0	1.306	2.228	13.7	20.3
9 18	1 8.02	+ 2 13.3	1.613	2.573	8.3	17.4	9 18	1 6.48	- 4 18.9	1.249	2.216	9.4	20.0
9 28	0 58.21	+ 2 12.5	1.577	2.570	3.9	17.1	9 28	0 57.64	- 4 51.1	1.214	2.204	5.4	19.8
10 8	0 47.45	+ 2 11.3	1.570	2.567	1.6	16.9	10 8	0 47.61	- 5 14.9	1.205	2.193	5.1	19.7
10 18	0 36.89	+ 2 13.6	1.590	2.564	6.0	17.2	10 18	0 37.77	- 5 23.6	1.220	2.182	9.1	19.9
10 28	0 27.70	+ 2 23.2	1.638	2.561	10.3	17.5	10 28	0 29.49	- 5 12.6	1.259	2.172	13.6	20.2
11 7	0 20.75	+ 2 42.8	1.710	2.558	14.1	17.7	11 7	0 23.80	- 4 40.5	1.319	2.163	17.7	20.4
<b>174187</b>	2002 <i>PP</i> <sub>164</sub>	10	6.4 350°53	2.5°/ 8.5 18			<b>142857</b>	2002 <i>VF</i> <sub>27</sub>	10	6.5 299°57	1.8°/ 8.2 18		
8 29	1 8.85	+13 6.6	1.386	2.216	18.9	19.7	8 29	1 11.96	+12 40.8	1.880	2.684	15.6	20.2
9 8	1 6.95	+13 7.8	1.308	2.208	15.3	19.4	9 8	1 8.66	+12 28.6	1.789	2.675	12.6	19.9
9 18	1 2.37	+12 47.8	1.248	2.202	11.0	19.2	9 18	1 3.17	+11 59.5	1.719	2.667	8.9	19.7
9 28	0 55.68	+12 7.6	1.210	2.196	6.2	18.9	9 28	0 55.99	+11 14.8	1.672	2.658	4.9	19.5
10 8	0 47.92	+11 11.8	1.195	2.192	2.5	18.7	10 8	0 47.93	+10 18.5	1.652	2.649	1.8	19.2
10 18	0 40.32	+10 7.8	1.205	2.188	5.7	18.9	10 18	0 39.97	+ 9 16.5	1.660	2.641	4.8	19.4
10 28	0 34.16	+ 9 5.3	1.240	2.186	10.6	19.1	10 28	0 33.11	+ 8 16.0	1.695	2.633	8.9	19.6
11 7	0 30.39	+ 8 13.0	1.297	2.185	15.0	19.4	11 7	0 28.15	+ 7 23.9	1.754	2.624	12.7	19.9
<b>132587</b>	2002 <i>JA</i> <sub>128</sub>	10	6.5 80°43	2.5°/ 4.2 18			<b>230290</b>	2001 <i>YQ</i> <sub>13</sub>	10	6.5 357°00	3.2°/ 8.8 18 R		
8 29	1 14.26	+ 1 46.0	1.727	2.566	15.4	19.9	8 29	1 13.35	+13 31.7	1.353	2.176	19.7	19.3
9 8	1 10.30	+ 0 58.5	1.663	2.576	11.8	19.7	9 8	1 10.56	+13 50.1	1.278	2.173	16.0	19.1
9 18	1 4.11	+ 0 1.2	1.621	2.586	7.8	19.5	9 18	1 4.86	+13 48.0	1.221	2.171	11.6	18.8
9 28	0 56.31	- 1 0.2	1.604	2.597	3.8	19.3	9 28	0 56.89	+13 25.4	1.186	2.170	6.8	18.6
10 8	0 47.84	- 1 58.6	1.614	2.607	3.1	19.2	10 8	0 47.76	+12 45.8	1.174	2.169	3.3	18.4
10 18	0 39.71	- 2 47.4	1.651	2.617	6.7	19.5	10 18	0 38.85	+11 55.8	1.187	2.169	6.0	18.5
10 28	0 32.90	- 3 21.0	1.715	2.628	10.6	19.7	10 28	0 31.53	+11 4.4	1.225	2.170	10.8	18.8
11 7	0 28.10	- 3 36.6	1.802	2.638	14.0	20.0	11 7	0 26.80	+10 20.3	1.285	2.172	15.2	19.1
<b>173356</b>	1999 <i>YK</i> <sub>3</sub>	10	6.5 234°87	4.6°/ 2.3 18			<b>102751</b>	1999 <i>VR</i> <sub>120</sub>	10	6.5 104°17	3.3°/ 4.1 17		
8 29	1 22.39	- 9 4.6	2.424	3.243	12.1	20.8	8 29	1 19.83	- 0 49.7	1.498	2.340	17.1	20.0
9 8	1 16.13	- 9 28.2	2.331	3.228	9.6	20.6	9 8	1 15.00	- 1 18.8	1.435	2.349	13.3	19.8
9 18	1 7.85	- 9 51.3	2.262	3.212	6.9	20.4	9 18	1 7.47	- 1 55.4	1.392	2.357	8.9	19.6
9 28	0 58.06	-10 9.0	2.220	3.196	4.8	20.3	9 28	0 57.95	- 2 33.5	1.373	2.365	4.6	19.4
10 8	0 47.51	-10 16.7	2.208	3.180	5.0	20.3	10 8	0 47.60	- 3 6.3	1.381	2.373	3.8	19.3
10 18	0 37.08	-10 10.8	2.226	3.162	7.4	20.4	10 18	0 37.67	- 3 27.4	1.416	2.381	7.7	19.6
10 28	0 27.65	- 9 49.5	2.273	3.144	10.2	20.5	10 28	0 29.37	- 3 32.5	1.476	2.388	12.0	19.9
11 7	0 19.93	- 9 12.6	2.344	3.126	12.9	20.7	11 7	0 23.53	- 3 19.6	1.558	2.396	15.7	20.1
<b>49782</b>	1999 <i>XK</i> <sub>9</sub>	10	6.5 215°20	8.5°/16.7 18			<b>455117</b>	2015 <i>VB</i> <sub>26</sub>	10	6.5 344°99	0.2°/ 6.2 18		
8 29	1 18.09	+34 29.7	2.301	2.949	17.1	18.9	8 29	1 9.12	+ 8 37.8	2.004	2.825	14.2	20.5
9 8	1 13.47	+34 50.8	2.193	2.940	15.3	18.7	9 8	1 6.20	+ 7 53.0	1.921	2.822	11.1	20.3
9 18	1 6.43	+34 47.1	2.101	2.930	13.2	18.5	9 18	1 1.35	+ 6 53.4	1.860	2.819	7.5	20.0
9 28	0 57.52	+34 14.3	2.030	2.918	10.9	18.3	9 28	0 55.07	+ 5 42.6	1.824	2.816	3.5	19.8
10 8	0 47.60	+33 11.1	1.983	2.906	9.1	18.2	10 8	0 48.11	+ 4 26.6	1.816	2.814	0.8	19.6
10 18	0 37.74	+31 39.9	1.961	2.893	8.5	18.2	10 18	0 41.32	+ 3 12.0	1.836	2.812	4.9	19.9
10 28	0 29.05	+29 47.5	1.968	2.879	9.5	18.2	10 28	0 35.53	+ 2 5.8	1.883	2.811	8.9	20.1
11 7	0 22.40	+27 43.9	2.001	2.865	11.7	18.3	11 7	0 31.42	+ 1 13.4	1.955	2.809	12.3	20.3
<b>226115</b>	2002 <i>PF</i> <sub>157</sub>	10	6.5 301°84	6.0°/29.1 18			<b>198116</b>	2004 <i>TJ</i> <sub>4</sub>	10	6.5 353°61	0.1°/ 6.5 18		
8 29	1 9.26	- 9 0.5	2.167	3.018	12.2	19.7	8 29	1 8.55	+ 7 49.3	1.184	2.043	19.7	19.7
9 8	1 6.26	-10 26.8	2.080	2.995	9.7	19.5	9 8	1 7.06	+ 7 37.0	1.115	2.036	15.6	19.4
9 18	1 1.40	-11 56.6	2.017	2.973	7.3	19.3	9 18	1 2.62	+ 7 5.5	1.063	2.030	10.6	19.1
9 28	0 55.10	-13 22.6	1.980	2.950	6.0	19.2	9 28	0 55.87	+ 6 18.5	1.031	2.025	5.1	18.8
10 8	0 48.06	-14 36.9	1.971	2.928	6.9	19.2	10 8	0 47.96	+ 5 23.0	1.023	2.022	0.9	18.5
10 18	0 41.07	-15 33.0	1.988	2.905	9.3	19.3	10 18	0 40.28	+ 4 28.2	1.039	2.021	6.7	18.9
10 28	0 34.96	-16 6.5	2.030	2.883	12.1	19.5	10 28	0 34.24	+ 3 43.5	1.078	2.020	12.2	19.2
11 7	0 30.43	-16 15.9	2.094	2.861	14.7	19.6	11 7	0 30.84	+ 3 16.1	1.137	2.022	16.9	19.5
<b>136397</b>	2004 <i>XB</i> <sub>134</sub>	10	6.5 183°83	4.3°/11.4 18			<b>509686</b>	2008 <i>QT</i> <sub>28</sub>	10	6.5 92°00	6.5°/14.3 18		
8 29	1 16.19	+21 28.5	2.466	3.199	14.2	20.9	8 29	1 21.05	+28 14.7	2.691	3.364	14.4	21.2
9 8	1 11.43	+21 36.9	2.371	3.200	11.9	20.7	9 8	1 15.05	+29 10.8	2.616	3.388	12.5	21.1
9 18	1 4.74	+21 28.1	2.295	3.200	9.3	20.5	9 18	1 7.09	+29 49.5	2.560	3.412	10.3	21.0
9 28	0 56.63	+21 1.3	2.244	3.199	6.5	20.4	9 28	0 57.70	+30 8.1	2.529	3.436	8.3	20.9
10 8	0 47.79	+20 17.9	2.221	3.198	4.5	20.3	10 8	0 47.65	+30 6.3	2.524	3.459	6.8	20.8
10 18	0 39.06	+19 21.5	2.226	3.196	4.9	20.3	10 18	0 37.78	+29 45.7	2.547	3.481	6.6	20.8
10 28	0 31.30	+18 17.6	2.261	3.193	7.3	20.4	10 28	0 28.98	+29 10.5	2.598	3.504	7.7	20.9
11 7	0 25.16	+17 12.8	2.323	3.190	10.1	20.6	11 7	0 21.88	+28 26.6	2.676	3.526	9.5	21.1
<b>23939</b>	1998 <i>TV</i> <sub>33</sub>	10	6.5 307°61	2.1°/ 2.6 18 R			<b>247391</b>	2002 <i>AA</i> <sub>22</sub>	10	6.5 163°19	13.6°/13.4 15		
8 29	1 5.98	- 4 12.1	4.148	4.974	7.3	18.5	8 29	1 33.76	+27 49.9	1.234	1.967	25.8	20.2
9 8	1 2.67	- 4 40.2	4.066	4.972	5.6	18.4	9 8	1 28.01	+30 16.5	1.161	1.971	22.8	20.0
9 18	0 58.43	- 5 9.9	4.009	4.969	3.8	18.3	9 18	1 17.71	+32 19.5	1.103	1.975	19.5	19.8
9 28	0 53.55	- 5 38.8	3.981	4.966	2.3	18.1	9 28	1 3.36	+33 46.5	1.064	1.978	16.2	19.6
10 8	0 48.37	- 6 4.4	3.982	4.963	2.4	18.1	10 8	0 46.54	+34 27.6	1.045	1.981	14.0	19.5
10 18	0 43.28	- 6 24.4	4.013	4.961	4.0	18.3	10 18	0 29.60	+34 19.9	1.049	1.983	13.9	19.5
10 28	0 38.64	- 6 37.0	4.073	4.958	5.8	18.4	10 28	0 15.10	+33 31.9	1.076	1.984	15.9	19.6
11 7	0 34.79	- 6 40.9	4.159	4.956	7.4	18.5	11 7	0 4.82	+32 20.1	1.123	1.984	18.9	19.8
<b>39611</b>	1993 <i>UO</i> <sub>8</sub>	10	6.5 189°05	2.9°/ 3.9 18			<b>407074</b>	2009 <i>SY</i> <sub>197</sub>	10	6.5 67°94	1.7°/ 7.9 18		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>360982</b>	2005 $UQ_{308}$	10	6.5 321°30	4°0/ 2.7 18			<b>474285</b>	2001 $UC_{230}$	10	6.5 319°54	4°7/ 2.9 18		
8 29	1 15.15	- 5 32.3	2.113	2.951	13.0	21.0	8 29	1 11.82	- 1 46.9	1.345	2.210	17.4	21.2
9 8	1 10.68	- 6 4.8	2.039	2.949	10.1	20.8	9 8	1 9.41	- 2 40.2	1.265	2.193	13.6	20.9
9 18	1 4.25	- 6 39.6	1.987	2.948	7.0	20.7	9 18	1 4.15	- 3 44.2	1.205	2.175	9.3	20.6
9 28	0 56.39	- 7 11.6	1.962	2.947	4.4	20.5	9 28	0 56.64	- 4 51.1	1.168	2.159	5.4	20.4
10 8	0 47.90	- 7 35.5	1.965	2.945	4.6	20.5	10 8	0 47.91	- 5 51.2	1.155	2.143	5.5	20.3
10 18	0 39.62	- 7 47.1	1.995	2.944	7.2	20.7	10 18	0 39.29	- 6 35.1	1.166	2.127	9.6	20.5
10 28	0 32.42	- 7 43.6	2.053	2.943	10.3	20.9	10 28	0 32.13	- 6 55.7	1.201	2.113	14.2	20.7
11 7	0 26.94	- 7 23.9	2.133	2.942	13.1	21.1	11 7	0 27.47	- 6 50.3	1.255	2.099	18.4	21.0
<b>411088</b>	2009 $VA_{111}$	10	6.5 46°11	7°9/17.6 18			<b>378131</b>	2006 $VZ_{20}$	10	6.5 52°39	3°6/ 4.0 17		
8 29	1 11.77	+34 25.7	2.489	3.142	15.8	20.0	8 29	1 17.96	- 0 59.9	1.406	2.257	17.6	21.1
9 8	1 8.24	+34 51.3	2.397	3.145	14.1	19.9	9 8	1 13.78	- 1 31.6	1.343	2.261	13.6	20.9
9 18	1 2.73	+34 54.2	2.322	3.147	12.2	19.8	9 18	1 6.79	- 2 11.4	1.299	2.266	9.2	20.7
9 28	0 55.73	+34 31.7	2.267	3.150	10.2	19.6	9 28	0 57.72	- 2 52.8	1.279	2.271	4.8	20.4
10 8	0 48.01	+33 43.6	2.235	3.153	8.5	19.5	10 8	0 47.74	- 3 28.2	1.284	2.276	4.2	20.4
10 18	0 40.43	+32 32.2	2.229	3.156	7.9	19.5	10 18	0 38.16	- 3 50.9	1.316	2.281	8.2	20.7
10 28	0 33.88	+31 3.2	2.250	3.159	8.6	19.5	10 28	0 30.23	- 3 55.9	1.371	2.286	12.6	20.9
11 7	0 29.04	+29 24.5	2.297	3.162	10.3	19.7	11 7	0 24.82	- 3 41.7	1.449	2.292	16.4	21.2
<b>507195</b>	2010 $SD_{21}$	10	6.5 71°61	1°1/ 7.1 17			<b>37506</b>	3107 $T_{-2}$	10	6.5 47°71	1°3/ 5.4 18 R		
8 29	1 20.50	+ 8 20.6	1.319	2.148	19.7	21.5	8 29	1 15.45	+ 2 32.8	2.035	2.860	13.9	18.1
9 8	1 15.96	+ 8 31.8	1.256	2.159	15.6	21.2	9 8	1 10.99	+ 2 23.1	1.960	2.865	10.8	17.9
9 18	1 8.35	+ 8 27.0	1.212	2.170	10.7	21.0	9 18	1 4.51	+ 2 5.8	1.908	2.870	7.2	17.7
9 28	0 58.45	+ 8 8.3	1.190	2.181	5.3	20.7	9 28	0 56.56	+ 1 44.3	1.882	2.875	3.3	17.5
10 8	0 47.54	+ 7 40.5	1.193	2.192	1.2	20.5	10 8	0 47.96	+ 1 22.7	1.884	2.880	1.7	17.4
10 18	0 37.10	+ 7 9.9	1.223	2.203	6.2	20.8	10 18	0 39.59	+ 1 5.2	1.914	2.886	5.3	17.6
10 28	0 28.51	+ 6 44.0	1.277	2.215	11.2	21.2	10 28	0 32.35	+ 0 55.9	1.971	2.892	9.0	17.9
11 7	0 22.70	+ 6 28.8	1.354	2.226	15.6	21.4	11 7	0 26.88	+ 0 57.4	2.053	2.898	12.2	18.1
<b>130428</b>	2000 $PF_{22}$	10	6.5 53°41	5°0/ 3.6 18			<b>40462</b>	1999 $RC_{44}$	10	6.5 355°71	5°8/ 3.0 18		
8 29	1 20.98	- 3 38.5	1.145	2.007	19.9	19.4	8 29	1 17.64	- 7 26.7	1.341	2.203	17.6	16.6
9 8	1 16.42	- 4 9.2	1.099	2.023	15.5	19.2	9 8	1 13.74	- 7 44.6	1.276	2.198	13.9	16.3
9 18	1 8.62	- 4 44.9	1.071	2.039	10.5	19.0	9 18	1 6.90	- 8 2.7	1.230	2.195	9.8	16.1
9 28	0 58.51	- 5 17.6	1.065	2.055	6.0	18.8	9 28	0 57.82	- 8 13.8	1.207	2.192	6.4	15.9
10 8	0 47.57	- 5 38.9	1.084	2.072	5.6	18.8	10 8	0 47.73	- 8 10.9	1.209	2.191	6.4	15.9
10 18	0 37.38	- 5 42.4	1.127	2.089	9.6	19.1	10 18	0 38.01	- 7 49.3	1.235	2.191	9.8	16.1
10 28	0 29.32	- 5 25.0	1.193	2.107	14.1	19.4	10 28	0 30.02	- 7 6.8	1.285	2.191	13.9	16.3
11 7	0 24.22	- 4 47.2	1.279	2.125	18.0	19.7	11 7	0 24.66	- 6 4.8	1.355	2.193	17.7	16.6
<b>158295</b>	2001 $UO_{107}$	10	6.5 288°38	0°2/ 6.6 18			<b>515887</b>	2015 $PE_{37}$	10	6.5 14°04	1°4/ 5.3 18		
8 29	1 13.21	+ 8 44.7	1.614	2.440	16.8	20.8	8 29	1 14.84	+ 3 10.8	1.784	2.617	15.2	21.2
9 8	1 10.10	+ 8 20.7	1.520	2.422	13.4	20.5	9 8	1 10.85	+ 2 53.4	1.709	2.617	11.8	21.0
9 18	1 4.43	+ 7 39.4	1.446	2.405	9.2	20.2	9 18	1 4.59	+ 2 26.5	1.655	2.619	7.9	20.7
9 28	0 56.71	+ 6 43.5	1.395	2.387	4.4	19.9	9 28	0 56.66	+ 1 53.7	1.627	2.620	3.6	20.5
10 8	0 47.86	+ 5 38.6	1.371	2.370	0.7	19.6	10 8	0 47.94	+ 1 20.4	1.625	2.622	1.8	20.4
10 18	0 39.02	+ 4 32.2	1.373	2.352	5.9	19.9	10 18	0 39.46	+ 0 52.0	1.650	2.624	5.9	20.6
10 28	0 31.42	+ 3 33.2	1.401	2.335	10.8	20.2	10 28	0 32.22	+ 0 33.5	1.703	2.626	10.0	20.9
11 7	0 26.03	+ 2 48.4	1.452	2.317	15.1	20.4	11 7	0 26.98	+ 0 28.2	1.778	2.628	13.6	21.1
<b>319148</b>	2005 $YL_{30}$	10	6.5 267°43	5°1/30.9 18			<b>97642</b>	2000 $EF_{170}$	10	6.5 305°51	0°9/ 7.2 17		
8 29	1 13.11	- 8 39.4	2.230	3.072	12.2	20.5	8 29	1 19.36	+ 6 44.9	2.170	2.971	13.9	18.9
9 8	1 9.06	- 9 33.0	2.155	3.066	9.6	20.3	9 8	1 14.19	+ 7 15.7	2.070	2.957	11.1	18.7
9 18	1 3.15	-10 27.7	2.104	3.060	7.0	20.2	9 18	1 6.82	+ 7 38.8	1.991	2.942	7.7	18.5
9 28	0 55.90	-11 17.4	2.078	3.053	5.3	20.0	9 28	0 57.75	+ 7 55.2	1.939	2.928	3.9	18.2
10 8	0 48.03	-11 56.2	2.081	3.047	5.8	20.1	10 8	0 47.73	+ 8 6.2	1.916	2.915	1.0	18.0
10 18	0 40.33	-12 19.5	2.111	3.041	8.1	20.2	10 18	0 37.72	+ 8 14.5	1.922	2.901	4.6	18.2
10 28	0 33.61	-12 24.4	2.166	3.035	10.8	20.4	10 28	0 28.70	+ 8 23.1	1.958	2.887	8.5	18.4
11 7	0 28.50	-12 10.3	2.245	3.028	13.4	20.5	11 7	0 21.47	+ 8 35.4	2.019	2.874	11.9	18.6
<b>302740</b>	2002 $UB_{16}$	10	6.5 292°39	3°1/ 3.6 18			<b>142028</b>	2002 $QU_5$	10	6.5 343°75	7°4/14.9 18		
8 29	1 13.38	- 0 24.8	1.880	2.720	14.2	20.7	8 29	0 59.46	+31 34.1	1.139	1.913	25.4	18.2
9 8	1 9.86	- 1 8.2	1.781	2.694	11.1	20.5	9 8	1 0.48	+30 42.2	1.051	1.899	22.2	17.9
9 18	1 4.08	- 2 0.8	1.703	2.668	7.5	20.2	9 18	0 58.48	+28 55.3	0.977	1.886	18.1	17.6
9 28	0 56.50	- 2 57.3	1.651	2.643	4.0	20.0	9 28	0 54.07	+26 7.8	0.921	1.875	13.3	17.3
10 8	0 47.91	- 3 51.1	1.627	2.617	3.8	19.9	10 8	0 48.40	+22 23.5	0.886	1.866	8.8	17.0
10 18	0 39.29	- 4 35.5	1.629	2.591	7.3	20.1	10 18	0 42.95	+17 59.0	0.876	1.858	7.7	16.9
10 28	0 31.70	- 5 4.5	1.658	2.565	11.3	20.2	10 28	0 39.20	+13 22.6	0.893	1.852	11.6	17.1
11 7	0 26.00	- 5 14.7	1.709	2.539	15.0	20.4	11 7	0 38.19	+ 9 4.6	0.934	1.847	16.8	17.4
<b>150100</b>	1229 $T_{-3}$	10	6.5 344°13	5°0/ 8.6 18			<b>256901</b>	2008 $DW_{53}$	10	6.5 262°65	2°4/ 8.9 18		
8 29	1 12.78	+10 37.9	0.988	1.846	22.8	19.1	8 29	1 13.49	+14 7.8	2.170	2.955	14.4	20.7
9 8	1 11.34	+12 2.4	0.913	1.828	18.8	18.8	9 8	1 9.59	+14 9.5	2.075	2.947	11.7	20.5
9 18	1 6.21	+13 13.3	0.853	1.812	13.9	18.4	9 18	1 3.69	+13 56.4	2.000	2.939	8.5	20.3
9 28	0 57.88	+14 6.9	0.813	1.798	8.6	18.1	9 28	0 56.25	+13 28.9	1.950	2.930	5.0	20.1
10 8	0 47.63	+14 41.7	0.792	1.786	5.0	17.9	10 8	0 48.02	+12 49.6	1.928	2.922	2.4	19.9
10 18	0 37.30	+14 59.3	0.794	1.776	8.0	18.0	10 18	0 39.85	+12 2.9	1.934	2.913	4.4	20.0
10 28	0 28.92	+15 6.0	0.816	1.769	13.5	18.3	10 28	0 32.66	+11 14.5	1.968	2.905	7.9	20.2
11 7	0 23.98	+15 10.5	0.857	1.763	18.8	18.6	11 7	0 27.16	+10 30.4	2.028	2.896	11.3	20.4
<b>239101</b>	2006 $HN_{53}$	10	6.5 154°58	1°1/ 5.3 18 R			<b>289111</b>	2004 $TC_{337}$	10	6.5 7°32	6°7/29.4 18		
8 29	1 14.51	+ 5 9.3	2.088	2.906	13.8	21.6	8 29						

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>448620</b>	2010 <i>UF</i> <sub>71</sub>	10	6.5 319°06	3°6/ 3.3 18			<b>321326</b>	2009 <i>HJ</i> <sub>77</sub>	10	6.5 112°52	0°7/ 7.2 17		
8 29	1 15.42	- 4 12.0	2.023	2.861	13.5	20.7	8 29	1 16.54	+11 32.8	1.569	2.382	17.8	21.5
9 8	1 11.05	- 4 36.7	1.944	2.856	10.5	20.5	9 8	1 12.39	+10 51.2	1.503	2.396	14.1	21.3
9 18	1 4.61	- 5 4.7	1.888	2.850	7.2	20.3	9 18	1 5.71	+ 9 49.6	1.457	2.410	9.7	21.1
9 28	0 56.65	- 5 31.1	1.857	2.845	4.2	20.1	9 28	0 57.21	+ 8 32.0	1.434	2.424	4.8	20.8
10 8	0 47.96	- 5 50.7	1.854	2.839	4.1	20.1	10 8	0 47.93	+ 7 5.4	1.439	2.437	0.9	20.6
10 18	0 39.46	- 5 59.2	1.879	2.834	7.0	20.3	10 18	0 39.06	+ 5 38.8	1.471	2.450	5.5	20.9
10 28	0 32.06	- 5 53.4	1.930	2.829	10.4	20.4	10 28	0 31.70	+ 4 21.5	1.530	2.463	10.1	21.2
11 7	0 26.46	- 5 32.1	2.005	2.825	13.4	20.6	11 7	0 26.63	+ 3 20.3	1.612	2.474	14.1	21.5
<b>396927</b>	2005 <i>EH</i> <sub>283</sub>	10	6.5 280°65	3°7/ 2.9 18			<b>520410</b>	2014 <i>JR</i> <sub>87</sub>	10	6.5 4°39	3°8/ 3.1 18		
8 29	1 14.00	- 1 25.3	1.881	2.722	14.2	21.3	8 29	1 14.58	- 2 53.7	1.815	2.659	14.5	21.1
9 8	1 10.36	- 2 21.1	1.783	2.696	11.1	21.0	9 8	1 10.59	- 3 34.8	1.744	2.659	11.2	20.9
9 18	1 4.44	- 3 26.2	1.706	2.671	7.6	20.7	9 18	1 4.40	- 4 21.4	1.695	2.659	7.6	20.7
9 28	0 56.70	- 4 34.7	1.655	2.644	4.4	20.5	9 28	0 56.60	- 5 7.6	1.671	2.660	4.5	20.5
10 8	0 47.93	- 5 39.3	1.631	2.618	4.4	20.4	10 8	0 48.05	- 5 46.8	1.674	2.660	4.4	20.5
10 18	0 39.14	- 6 32.6	1.635	2.591	7.9	20.6	10 18	0 39.76	- 6 13.6	1.704	2.660	7.5	20.7
10 28	0 31.38	- 7 8.3	1.665	2.563	11.8	20.8	10 28	0 32.69	- 6 23.7	1.760	2.661	11.1	20.9
11 7	0 25.52	- 7 23.0	1.717	2.536	15.4	20.9	11 7	0 27.56	- 6 15.6	1.839	2.662	14.3	21.2
<b>242597</b>	2005 <i>JY</i> <sub>28</sub>	10	6.5 7°31	2°3/ 2.2 17			<b>437309</b>	2013 <i>CY</i> <sub>199</sub>	10	6.5 335°13	2°1/ 2.5 18		
8 29	1 4.99	- 3 55.7	3.837	4.668	7.8	20.2	8 29	1 5.37	- 4 17.4	4.280	5.107	7.1	21.1
9 8	1 2.02	- 4 37.7	3.760	4.669	6.0	20.1	9 8	1 2.21	- 4 48.9	4.200	5.106	5.4	21.0
9 18	0 58.08	- 5 21.9	3.708	4.669	4.0	20.0	9 18	0 58.18	- 5 22.0	4.146	5.105	3.7	20.9
9 28	0 53.47	- 6 5.3	3.685	4.670	2.5	19.9	9 28	0 53.53	- 5 54.2	4.119	5.105	2.3	20.8
10 8	0 48.55	- 6 44.9	3.692	4.671	2.7	19.9	10 8	0 48.60	- 6 23.2	4.123	5.104	2.4	20.8
10 18	0 43.72	- 7 18.1	3.727	4.673	4.3	20.0	10 18	0 43.75	- 6 46.6	4.157	5.103	3.9	20.9
10 28	0 39.38	- 7 42.5	3.792	4.674	6.2	20.1	10 28	0 39.34	- 7 2.5	4.219	5.102	5.6	21.0
11 7	0 35.87	- 7 56.8	3.881	4.675	8.0	20.3	11 7	0 35.67	- 7 9.9	4.307	5.101	7.2	21.1
<b>100036</b>	1991 <i>PM</i> <sub>14</sub>	10	6.5 21°35	3°8/ 4.1 18			<b>396134</b>	2013 <i>CW</i> <sub>214</sub>	10	6.5 327°28	2°0/ 10.3 18		
8 29	1 10.63	+ 0 53.1	0.926	1.813	21.5	18.5	8 29	1 6.05	+17 9.7	4.244	4.991	8.5	21.3
9 8	1 8.98	+ 0 12.3	0.885	1.824	16.6	18.2	9 8	1 2.82	+17 8.4	4.144	4.989	6.9	21.2
9 18	1 3.94	+ 0 41.6	0.861	1.837	11.0	18.0	9 18	0 58.63	+16 58.3	4.068	4.987	5.2	21.1
9 28	0 56.45	+ 1 39.3	0.857	1.852	5.5	17.7	9 28	0 53.76	+16 39.7	4.018	4.985	3.4	20.9
10 8	0 48.03	+ 2 29.7	0.875	1.869	4.5	17.8	10 8	0 48.56	+16 14.2	3.997	4.983	2.1	20.8
10 18	0 40.29	+ 3 3.2	0.914	1.887	9.4	18.1	10 18	0 43.41	+15 43.6	4.006	4.981	2.6	20.9
10 28	0 34.67	+ 3 13.6	0.975	1.907	14.5	18.5	10 28	0 38.71	+15 10.3	4.045	4.979	4.3	21.0
11 7	0 31.99	+ 2 59.4	1.054	1.928	18.9	18.8	11 7	0 34.81	+14 37.3	4.112	4.977	6.1	21.1
<b>81656</b>	2000 <i>HU</i> <sub>86</sub>	10	6.5 97°52	2°9/ 3.8 18			<b>261811</b>	2006 <i>BN</i> <sub>278</sub>	10	6.5 260°94	0°9/ 5.5 18		
8 29	1 14.15	- 0 33.8	1.952	2.789	13.9	19.7	8 29	1 11.91	+ 4 35.6	2.431	3.247	12.1	21.3
9 8	1 10.07	- 1 13.8	1.880	2.792	10.7	19.5	9 8	1 8.09	+ 4 7.4	2.336	3.236	9.5	21.1
9 18	1 3.95	- 2 0.6	1.831	2.795	7.2	19.3	9 18	1 2.54	+ 3 30.0	2.264	3.224	6.3	20.9
9 28	0 56.33	- 2 49.3	1.807	2.798	3.8	19.1	9 28	0 55.70	+ 2 46.5	2.219	3.212	2.9	20.7
10 8	0 48.05	- 3 33.7	1.810	2.800	3.4	19.1	10 8	0 48.22	+ 2 1.2	2.202	3.200	1.3	20.5
10 18	0 40.00	- 4 8.6	1.842	2.803	6.6	19.3	10 18	0 40.80	+ 1 18.5	2.215	3.187	4.7	20.7
10 28	0 33.10	- 4 29.3	1.900	2.806	10.1	19.5	10 28	0 34.20	+ 0 43.2	2.256	3.175	8.1	20.9
11 7	0 28.00	- 4 33.7	1.982	2.809	13.3	19.7	11 7	0 29.05	+ 0 18.8	2.322	3.162	11.1	21.1
<b>43184</b>	1999 <i>XD</i> <sub>214</sub>	10	6.5 204°07	2°7/ 3.2 18			<b>254388</b>	2004 <i>TG</i> <sub>211</sub>	10	6.5 338°46	1°2/ 5.4 18		
8 29	1 10.27	- 0 2.7	2.406	3.238	11.8	19.3	8 29	1 10.12	+ 4 29.8	1.754	2.593	15.1	20.3
9 8	1 6.72	- 1 2.6	2.327	3.237	9.0	19.1	9 8	1 7.36	+ 4 3.9	1.669	2.582	11.8	20.1
9 18	1 1.54	- 2 9.7	2.271	3.235	6.0	18.9	9 18	1 2.39	+ 3 26.1	1.606	2.571	7.9	19.8
9 28	0 55.17	- 3 19.1	2.243	3.233	3.3	18.7	9 28	0 55.73	+ 2 40.4	1.567	2.561	3.6	19.6
10 8	0 48.26	- 4 25.2	2.244	3.232	3.2	18.7	10 8	0 48.21	+ 1 52.4	1.555	2.552	1.7	19.4
10 18	0 41.49	- 5 22.4	2.274	3.230	5.9	18.9	10 18	0 40.81	+ 1 8.5	1.569	2.544	5.9	19.7
10 28	0 35.58	- 6 6.3	2.331	3.228	8.9	19.1	10 28	0 34.54	+ 0 34.9	1.609	2.536	10.1	19.9
11 7	0 31.08	- 6 34.2	2.412	3.226	11.6	19.3	11 7	0 30.18	+ 0 15.9	1.672	2.529	13.9	20.1
<b>133756</b>	Carinajohnson	10	6.5 359°45	1°7/ 7.7 18			<b>315948</b>	2008 <i>TL</i> <sub>125</sub>	10	6.5 332°87	1°0/ 8.3 18		
8 29	1 11.55	+10 30.3	1.378	2.213	18.7	19.4	8 29	1 5.20	+11 55.4	4.232	5.009	8.0	20.9
9 8	1 9.05	+10 35.0	1.306	2.211	15.0	19.1	9 8	1 2.15	+11 43.1	4.136	5.006	6.4	20.8
9 18	1 3.80	+10 21.5	1.251	2.209	10.5	18.9	9 18	0 58.18	+11 23.5	4.063	5.004	4.5	20.6
9 28	0 56.44	+ 9 51.5	1.219	2.208	5.5	18.6	9 28	0 53.55	+10 57.5	4.018	5.001	2.5	20.5
10 8	0 48.03	+ 9 9.7	1.210	2.208	1.7	18.3	10 8	0 48.62	+10 27.2	4.002	4.999	1.0	20.4
10 18	0 39.85	+ 8 23.1	1.227	2.210	5.8	18.6	10 18	0 43.74	+ 9 54.4	4.017	4.996	2.3	20.5
10 28	0 33.18	+ 7 40.0	1.269	2.212	10.7	18.9	10 28	0 39.30	+ 9 21.9	4.062	4.994	4.4	20.6
11 7	0 28.93	+ 7 7.5	1.332	2.215	15.0	19.2	11 7	0 35.62	+ 8 52.1	4.134	4.992	6.3	20.8
<b>14355</b>	1987 <i>SL</i> <sub>5</sub>	10	6.5 313°89	2°1/ 8.1 18			<b>437400</b>	2013 <i>WN</i> <sub>66</sub>	10	6.5 312°19	3°3/ 8.9 18		
8 29	1 10.08	+12 49.7	1.341	2.172	19.3	18.0	8 29	1 10.79	+14 48.5	1.336	2.159	19.8	20.9
9 8	1 8.28	+12 38.7	1.248	2.150	15.7	17.7	9 8	1 8.91	+14 50.6	1.243	2.138	16.3	20.6
9 18	1 3.58	+12 4.1	1.173	2.129	11.3	17.4	9 18	1 4.07	+14 28.7	1.167	2.116	12.0	20.3
9 28	0 56.49	+11 6.7	1.119	2.107	6.2	17.0	9 28	0 56.77	+13 42.0	1.112	2.096	7.1	20.0
10 8	0 48.00	+ 9 51.3	1.089	2.087	2.1	16.7	10 8	0 48.01	+12 34.0	1.080	2.075	3.3	19.7
10 18	0 39.45	+ 8 26.7	1.084	2.067	6.2	16.9	10 18	0 39.16	+11 12.5	1.072	2.055	6.3	19.8
10 28	0 32.31	+ 7 4.5	1.103	2.048	11.7	17.2	10 28	0 31.75	+ 9 49.0	1.089	2.036	11.6	20.0
11 7	0 27.73	+ 5 55.6	1.143	2.029	16.7	17.4	11 7	0 26.97	+ 8 35.1	1.127	2.018	16.6	20.3
<b>225757</b>	2001 <i>SV</i> <sub>165</sub>	10	6.5 62°40	0°4/ 6.8 16			<b>435613</b>	2008 <i>SP</i> <sub>83</sub>	10	6.5 19°71	0°5/ 5.6 18		
8 29	1 17.72	+ 8 28.0	1.401	2.2									

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>328871</b>	2010 <i>AO</i> <sub>61</sub>	10 6.5 342°27	15°4/15.2	18			<b>328141</b>	2008 <i>BH</i> <sub>39</sub>	10 6.5 212°32	3°6/3.4	17		
8 29	1 16.26	-39 30.4	1.901	2.687	16.1	19.3	8 29	1 17.04	-0 30.2	1.673	2.513	15.7	21.8
9 8	1 12.34	-41 17.4	1.873	2.679	15.5	19.3	9 8	1 12.81	-1 24.7	1.595	2.508	12.2	21.5
9 18	1 5.74	-42 41.1	1.863	2.671	15.4	19.2	9 18	1 6.09	-2 28.7	1.539	2.504	8.2	21.3
9 28	0 57.23	-43 31.9	1.872	2.664	15.8	19.3	9 28	0 57.49	-3 35.8	1.508	2.498	4.5	21.1
10 8	0 47.98	-43 43.6	1.899	2.658	16.6	19.3	10 8	0 47.96	-4 38.0	1.504	2.493	4.2	21.0
10 18	0 39.22	-43 14.7	1.943	2.652	17.7	19.4	10 18	0 38.64	-5 27.7	1.527	2.486	7.9	21.3
10 28	0 32.12	-42 7.5	2.002	2.647	18.9	19.5	10 28	0 30.66	-5 59.0	1.576	2.480	12.0	21.5
11 7	0 27.40	-40 27.6	2.073	2.642	20.0	19.6	11 7	0 24.86	-6 9.1	1.647	2.473	15.6	21.7
<b>207749</b>	2007 <i>RC</i> <sub>286</sub>	10 6.5 254°00	2°9/13.1	18			<b>207889</b>	2008 <i>AZ</i> <sub>6</sub>	10 6.5 66°08	6°9/30.5	18		
8 29	1 4.70	+24 27.9	4.686	5.384	8.3	19.7	8 29	1 16.73	-10 56.0	1.726	2.576	14.9	19.7
9 8	1 1.73	+24 13.5	4.579	5.380	7.1	19.6	9 8	1 12.12	-12 3.2	1.684	2.596	11.7	19.5
9 18	0 57.88	+23 48.4	4.494	5.376	5.6	19.5	9 18	1 5.28	-13 8.0	1.664	2.617	8.8	19.4
9 28	0 53.41	+23 12.7	4.434	5.372	4.2	19.4	9 28	0 56.94	-14 2.3	1.668	2.637	7.0	19.3
10 8	0 48.65	+22 27.6	4.403	5.368	3.1	19.3	10 8	0 48.09	-14 38.9	1.699	2.658	7.6	19.4
10 18	0 43.95	+21 35.1	4.401	5.363	3.0	19.3	10 18	0 39.75	-14 53.4	1.756	2.679	10.0	19.6
10 28	0 39.67	+20 37.9	4.430	5.359	4.1	19.4	10 28	0 32.84	-14 44.3	1.837	2.699	12.7	19.8
11 7	0 36.13	+19 39.1	4.487	5.355	5.6	19.5	11 7	0 28.00	-14 13.1	1.939	2.720	15.3	20.1
<b>344444</b>	2002 <i>HM</i> <sub>3</sub>	10 6.5 134°39	5°7/1.1	18			<b>117717</b>	2005 <i>GD</i> <sub>5</sub>	10 6.5 32°50	1°4/5.1	18		
8 29	1 19.48	-10 38.3	2.153	2.984	13.0	21.1	8 29	1 8.51	+7 58.7	1.419	2.265	17.7	18.6
9 8	1 13.88	-11 29.0	2.095	2.998	10.2	20.9	9 8	1 6.31	+6 39.4	1.364	2.280	13.7	18.4
9 18	1 6.32	-12 18.1	2.060	3.010	7.6	20.8	9 18	1 1.69	+5 1.0	1.330	2.297	9.0	18.1
9 28	0 57.40	-12 59.4	2.053	3.022	5.8	20.7	9 28	0 55.36	+3 11.1	1.320	2.315	4.0	17.9
10 8	0 47.96	-13 27.3	2.073	3.033	6.3	20.8	10 8	0 48.36	+1 20.2	1.336	2.333	2.1	17.8
10 18	0 38.89	-13 37.7	2.121	3.044	8.5	20.9	10 18	0 41.77	-0 20.8	1.378	2.352	6.7	18.2
10 28	0 31.03	-13 29.1	2.195	3.055	11.1	21.1	10 28	0 36.62	-1 42.7	1.445	2.372	11.1	18.5
11 7	0 24.98	-13 1.9	2.293	3.064	13.5	21.3	11 7	0 33.60	-2 40.6	1.535	2.392	14.9	18.8
<b>229405</b>	2005 <i>SL</i> <sub>215</sub>	10 6.5 345°30	3°4/9.0	18			<b>5299</b>	Bittesini	10 6.5 330°05	1°9/8.4	18		
8 29	1 9.13	+14 23.2	1.211	2.046	20.8	19.6	8 29	1 12.51	+12 29.4	2.165	2.959	14.2	16.9
9 8	1 7.67	+14 31.8	1.135	2.037	17.0	19.3	9 8	1 8.81	+12 30.6	2.076	2.955	11.4	16.7
9 18	1 3.20	+14 15.7	1.075	2.028	12.4	19.0	9 18	1 3.16	+12 18.1	2.008	2.952	8.1	16.5
9 28	0 56.31	+13 35.1	1.036	2.020	7.3	18.7	9 28	0 56.06	+11 52.8	1.965	2.948	4.6	16.3
10 8	0 48.12	+12 34.3	1.019	2.014	3.4	18.5	10 8	0 48.22	+11 17.7	1.949	2.945	1.9	16.1
10 18	0 40.08	+11 21.7	1.025	2.009	6.3	18.7	10 18	0 40.50	+10 37.0	1.962	2.942	4.3	16.3
10 28	0 33.67	+10 8.7	1.055	2.005	11.5	18.9	10 28	0 33.74	+9 56.2	2.002	2.939	7.8	16.5
11 7	0 29.96	+9 6.4	1.106	2.002	16.3	19.2	11 7	0 28.65	+9 20.4	2.068	2.936	11.1	16.7
<b>437431</b>	2013 <i>XU</i> <sub>24</sub>	10 6.5 264°31	4°4/10.2	18			<b>268675</b>	2006 <i>FM</i> <sub>17</sub>	10 6.5 241°19	0°0/6.4	18		
8 29	1 15.75	+17 55.3	1.702	2.484	17.9	21.3	8 29	1 9.64	+9 11.5	2.676	3.476	11.6	21.4
9 8	1 12.12	+18 11.7	1.607	2.472	14.9	21.0	9 8	1 6.18	+8 25.4	2.578	3.467	9.1	21.2
9 18	1 5.85	+18 7.5	1.530	2.460	11.3	20.8	9 18	1 1.19	+7 27.1	2.503	3.456	6.2	21.0
9 28	0 57.47	+17 41.2	1.476	2.448	7.4	20.5	9 28	0 55.07	+6 19.5	2.455	3.446	2.9	20.7
10 8	0 47.92	+16 54.8	1.448	2.435	4.6	20.3	10 8	0 48.40	+5 6.8	2.436	3.435	0.5	20.5
10 18	0 38.37	+15 53.1	1.445	2.423	5.9	20.4	10 18	0 41.80	+3 54.1	2.448	3.424	3.9	20.8
10 28	0 30.10	+14 44.3	1.470	2.410	9.7	20.6	10 28	0 35.94	+2 46.8	2.489	3.413	7.2	21.0
11 7	0 24.08	+13 37.7	1.518	2.398	13.7	20.8	11 7	0 31.35	+1 49.5	2.557	3.402	10.1	21.1
<b>201102</b>	2002 <i>GP</i> <sub>142</sub>	10 6.5 212°61	0°0/6.4	18			<b>291412</b>	2006 <i>DC</i> <sub>6</sub>	10 6.5 268°49	5°8/29.0	18		
8 29	1 14.43	+8 29.5	2.207	3.011	13.6	21.6	8 29	1 10.19	-10 7.3	2.320	3.167	11.7	20.2
9 8	1 10.23	+7 54.7	2.114	3.005	10.7	21.4	9 8	1 6.78	-11 31.6	2.251	3.162	9.2	20.1
9 18	1 4.08	+7 6.7	2.043	2.997	7.3	21.2	9 18	1 1.66	-12 56.9	2.206	3.158	7.0	19.9
9 28	0 56.46	+6 8.4	1.998	2.990	3.4	20.9	9 28	0 55.30	-14 16.1	2.188	3.153	5.8	19.9
10 8	0 48.12	+5 4.4	1.983	2.981	0.6	20.7	10 8	0 48.37	-15 22.6	2.197	3.149	6.6	19.9
10 18	0 39.87	+4 0.5	1.996	2.972	4.7	21.0	10 18	0 41.59	-16 11.1	2.234	3.145	8.7	20.0
10 28	0 32.59	+3 3.0	2.038	2.963	8.5	21.2	10 28	0 35.70	-16 38.3	2.295	3.140	11.2	20.2
11 7	0 26.97	+2 16.7	2.106	2.953	11.8	21.4	11 7	0 31.30	-16 43.5	2.378	3.136	13.4	20.3
<b>428872</b>	2008 <i>UF</i> <sub>193</sub>	10 6.5 62°76	7°0/1.8	18			<b>426621</b>	2013 <i>SP</i> <sub>58</sub>	10 6.5 62°29	2°9/4.5	17		
8 29	1 20.98	-10 44.3	1.527	2.376	16.5	20.6	8 29	1 18.68	+1 57.8	1.251	2.102	19.3	20.1
9 8	1 15.68	-11 27.9	1.481	2.393	13.0	20.4	9 8	1 14.35	+1 12.4	1.207	2.126	14.8	19.9
9 18	1 7.79	-12 8.7	1.456	2.411	9.6	20.3	9 18	1 7.11	+0 15.5	1.182	2.150	9.7	19.7
9 28	0 58.12	-12 38.6	1.455	2.429	7.2	20.2	9 28	0 57.87	-0 45.5	1.181	2.174	4.7	19.5
10 8	0 47.86	-12 50.8	1.480	2.447	7.6	20.2	10 8	0 47.95	-1 41.6	1.204	2.198	3.5	19.5
10 18	0 38.21	-12 41.2	1.530	2.465	10.2	20.4	10 18	0 38.73	-2 24.8	1.253	2.223	7.9	19.8
10 28	0 30.28	-12 9.1	1.605	2.483	13.4	20.7	10 28	0 31.42	-2 49.2	1.327	2.247	12.4	20.1
11 7	0 24.76	-11 16.6	1.701	2.501	16.3	20.9	11 7	0 26.77	-2 52.7	1.421	2.271	16.3	20.4
<b>390362</b>	2013 <i>CQ</i> <sub>217</sub>	10 6.5 214°62	0°5/5.4	18			<b>264087</b>	2009 <i>SL</i> <sub>252</sub>	10 6.5 160°87	1°0/4.4	18		
8 29	1 4.29	+4 25.2	4.498	5.305	7.1	21.4	8 29	1 4.66	+1 8.7	4.827	5.640	6.6	21.3
9 8	1 1.36	+3 56.3	4.409	5.304	5.5	21.3	9 8	1 1.58	+0 41.8	4.742	5.642	5.0	21.2
9 18	0 57.61	+3 22.6	4.346	5.304	3.6	21.2	9 18	0 57.73	+0 11.6	4.684	5.644	3.3	21.0
9 28	0 53.29	+2 46.1	4.311	5.304	1.6	21.0	9 28	0 53.35	-0 19.9	4.654	5.646	1.6	20.9
10 8	0 48.69	+2 8.9	4.306	5.304	0.8	20.9	10 8	0 48.72	-0 50.7	4.655	5.648	1.2	20.9
10 18	0 44.16	+1 33.3	4.332	5.303	2.7	21.1	10 18	0 44.16	-1 18.7	4.686	5.650	2.8	21.0
10 28	0 40.03	+1 1.6	4.388	5.303	4.6	21.2	10 28	0 39.98	-1 42.1	4.747	5.652	4.5	21.1
11 7	0 36.60	+0 35.7	4.471	5.303	6.3	21.4	11 7	0 36.46	-1 59.5	4.835	5.654	6.1	21.3
<b>515247</b>	2012 <i>CV</i> <sub>37</sub>	10 6.5 156°92	3°9/30.9	18			<b>515680</b>	2014 <i>OO</i> <sub>400</sub>	10 6.5 118°10	0°6/7.2	18		
8 29	1 10.58	-5 42.3	2.763	3.597	10.4	21.8	8 29	1 13.01	+9 42.8	2			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>480124</b>	2015 <i>FL</i> <sub>109</sub>	10 6.5 196°04	2°6/ 8.9 16				<b>224748</b>	2006 <i>DD</i> <sub>73</sub>	10 6.5 217°21	0°4/ 6.1 17			
8 29	1 14.85	+15 7.9	1.700	2.496	17.4	21.4	8 29	1 12.69	+5 45.5	2.721	3.527	11.3	21.1
9 8	1 11.18	+14 51.8	1.616	2.495	14.1	21.1	9 8	1 8.47	+5 27.0	2.629	3.521	8.8	20.9
9 18	1 5.05	+14 14.9	1.552	2.494	10.2	20.9	9 18	1 2.71	+5 0.3	2.560	3.515	5.9	20.7
9 28	0 57.03	+13 18.1	1.511	2.493	5.9	20.6	9 28	0 55.80	+4 27.6	2.517	3.509	2.7	20.5
10 8	0 48.07	+12 6.1	1.496	2.491	2.6	20.4	10 8	0 48.33	+3 52.4	2.505	3.503	0.7	20.3
10 18	0 39.30	+10 46.0	1.508	2.489	5.2	20.6	10 18	0 40.96	+3 18.3	2.522	3.497	4.0	20.6
10 28	0 31.84	+9 26.8	1.548	2.487	9.5	20.9	10 28	0 34.34	+2 49.2	2.568	3.490	7.1	20.8
11 7	0 26.53	+8 17.1	1.611	2.485	13.5	21.1	11 7	0 29.03	+2 28.3	2.641	3.483	9.9	21.0
<b>450354</b>	2004 <i>VN</i> <sub>41</sub>	10 6.5 63°72	3°9/ 2.8 18				<b>108634</b>	2001 <i>NU</i> <sub>2</sub>	10 6.5 346°70	7°5/ 30.0 18			
8 29	1 15.01	-5 1.6	2.119	2.956	13.0	20.5	8 29	1 10.79	-9 22.8	1.468	2.337	16.0	18.3
9 8	1 10.50	-5 35.5	2.057	2.968	10.0	20.4	9 8	1 8.25	-10 38.0	1.404	2.329	12.7	18.1
9 18	1 4.11	-6 11.6	2.019	2.980	6.9	20.2	9 18	1 3.17	-11 54.9	1.361	2.322	9.5	17.9
9 28	0 56.42	-6 45.0	2.007	2.992	4.3	20.1	9 28	0 56.17	-13 3.8	1.341	2.315	7.6	17.8
10 8	0 48.20	-7 10.6	2.022	3.004	4.3	20.1	10 8	0 48.27	-13 54.8	1.345	2.310	8.4	17.8
10 18	0 40.29	-7 24.3	2.066	3.016	6.9	20.3	10 18	0 40.63	-14 20.9	1.373	2.305	11.4	18.0
10 28	0 33.49	-7 23.5	2.136	3.028	9.9	20.5	10 28	0 34.41	-14 18.3	1.424	2.301	14.8	18.2
11 7	0 28.38	-7 7.3	2.230	3.040	12.6	20.7	11 7	0 30.42	-13 47.6	1.494	2.299	17.9	18.4
<b>262608</b>	2006 <i>VZ</i> <sub>140</sub>	10 6.5 329°44	0°2/ 6.3 18				<b>225455</b>	2000 <i>EQ</i> <sub>15</sub>	10 6.5 112°61	0°1/ 6.4 17			
8 29	1 11.72	+7 26.9	1.898	2.721	14.8	21.0	8 29	1 17.30	+8 6.2	1.776	2.590	16.0	21.3
9 8	1 8.41	+6 59.1	1.815	2.717	11.6	20.8	9 8	1 12.68	+7 32.9	1.710	2.606	12.5	21.1
9 18	1 3.00	+6 17.8	1.753	2.713	7.9	20.5	9 18	1 5.79	+6 45.2	1.666	2.622	8.4	20.9
9 28	0 56.01	+5 26.3	1.716	2.709	3.7	20.3	9 28	0 57.28	+5 47.0	1.646	2.638	3.9	20.6
10 8	0 48.26	+4 29.8	1.706	2.705	0.8	20.1	10 8	0 48.10	+4 44.2	1.654	2.653	0.8	20.4
10 18	0 40.65	+3 34.5	1.724	2.702	5.1	20.4	10 18	0 39.29	+3 43.7	1.690	2.667	5.3	20.8
10 28	0 34.14	+2 46.9	1.769	2.699	9.2	20.6	10 28	0 31.84	+2 52.1	1.754	2.681	9.5	21.1
11 7	0 29.44	+2 12.0	1.838	2.696	12.8	20.8	11 7	0 26.44	+2 14.3	1.842	2.695	13.0	21.3
<b>229998</b>	2000 <i>CG</i> <sub>106</sub>	10 6.5 357°67	1°8/ 9.8 18				<b>55046</b>	2001 <i>QQ</i> <sub>64</sub>	10 6.5 348°51	1°4/ 7.8 18			
8 29	1 6.22	+15 43.6	4.015	4.772	8.8	20.9	8 29	1 11.91	+11 14.8	1.755	2.569	16.2	18.8
9 8	1 3.02	+15 42.0	3.919	4.772	7.1	20.8	9 8	1 8.79	+11 3.5	1.673	2.566	12.9	18.6
9 18	0 58.81	+15 31.4	3.845	4.771	5.2	20.7	9 18	1 3.38	+10 35.7	1.611	2.563	9.1	18.4
9 28	0 53.90	+15 12.7	3.799	4.771	3.3	20.5	9 28	0 56.25	+9 53.3	1.573	2.561	4.8	18.1
10 8	0 48.64	+14 47.3	3.781	4.770	1.9	20.4	10 8	0 48.26	+9 0.8	1.561	2.559	1.4	17.9
10 18	0 43.44	+14 17.3	3.793	4.770	2.6	20.5	10 18	0 40.43	+8 4.4	1.576	2.557	4.9	18.1
10 28	0 38.71	+13 45.4	3.835	4.770	4.5	20.6	10 28	0 33.80	+7 11.3	1.618	2.556	9.2	18.4
11 7	0 34.82	+13 14.2	3.905	4.770	6.4	20.7	11 7	0 29.15	+6 27.9	1.683	2.555	13.1	18.6
<b>294495</b>	2007 <i>WN</i> <sub>30</sub>	10 6.5 279°11	0°3/ 6.8 18				<b>260617</b>	2005 <i>GD</i> <sub>42</sub>	10 6.5 226°82	1°7/ 5.1 17			
8 29	1 14.98	+7 44.2	1.923	2.738	15.0	20.9	8 29	1 15.39	+5 24.6	1.594	2.427	16.7	21.2
9 8	1 11.04	+7 37.4	1.830	2.725	11.9	20.7	9 8	1 11.72	+4 32.2	1.512	2.421	13.0	21.0
9 18	1 4.86	+7 18.2	1.757	2.713	8.1	20.5	9 18	1 5.49	+3 23.7	1.451	2.414	8.7	20.7
9 28	0 56.94	+6 48.7	1.709	2.700	4.0	20.2	9 28	0 57.29	+2 4.4	1.413	2.407	4.0	20.4
10 8	0 48.09	+6 12.9	1.689	2.688	0.6	19.9	10 8	0 48.08	+0 42.3	1.403	2.400	2.3	20.3
10 18	0 39.30	+5 35.8	1.696	2.675	5.0	20.2	10 18	0 39.04	-0 33.7	1.420	2.392	6.8	20.6
10 28	0 31.59	+5 3.4	1.731	2.662	9.3	20.4	10 28	0 31.34	-1 35.0	1.463	2.383	11.5	20.8
11 7	0 25.77	+4 40.4	1.791	2.650	13.0	20.6	11 7	0 25.88	-2 16.2	1.528	2.375	15.5	21.1
<b>439985</b>	2001 <i>XT</i> <sub>75</sub>	10 6.5 328°99	8°5/ 29.5 18				<b>204003</b>	2003 <i>UQ</i> <sub>7</sub>	10 6.5 33°25	9°3/ 16.0 18			
8 29	1 17.17	-15 58.3	1.743	2.590	14.9	20.2	8 29	1 11.93	+29 54.6	1.430	2.171	22.5	18.8
9 8	1 12.83	-16 50.9	1.676	2.581	12.2	20.0	9 8	1 9.52	+30 32.2	1.368	2.186	19.6	18.7
9 18	1 6.04	-17 38.0	1.630	2.572	9.8	19.9	9 18	1 4.20	+30 36.8	1.320	2.202	16.3	18.5
9 28	0 57.44	-18 11.1	1.608	2.563	8.5	19.8	9 28	0 56.69	+30 4.8	1.290	2.218	12.9	18.3
10 8	0 48.02	-18 22.8	1.611	2.555	9.3	19.8	10 8	0 48.19	+28 56.9	1.282	2.236	10.1	18.2
10 18	0 38.89	-18 8.8	1.640	2.548	11.5	19.9	10 18	0 40.10	+27 19.5	1.297	2.254	9.3	18.2
10 28	0 31.14	-17 28.0	1.691	2.541	14.3	20.1	10 28	0 33.74	+25 24.1	1.337	2.273	10.9	18.4
11 7	0 25.56	-16 22.9	1.763	2.534	16.9	20.2	11 7	0 29.97	+23 24.7	1.399	2.292	13.8	18.6
<b>119263</b>	2001 <i>RG</i> <sub>51</sub>	10 6.5 54°59	7°0/ 2.2 18				<b>249481</b>	2009 <i>TE</i> <sub>23</sub>	10 6.5 324°77	2°1/ 2.5 18			
8 29	1 21.56	-8 31.2	1.254	2.114	18.7	19.1	8 29	1 5.20	-3 56.6	4.100	4.928	7.4	20.0
9 8	1 16.42	-9 23.9	1.221	2.141	14.6	18.9	9 8	1 2.17	-4 31.6	4.017	4.924	5.7	19.8
9 18	1 8.37	-10 15.5	1.208	2.169	10.4	18.8	9 18	0 58.22	-5 8.7	3.959	4.920	3.8	19.7
9 28	0 58.40	-10 56.3	1.217	2.197	7.4	18.7	9 28	0 53.63	-5 45.1	3.930	4.915	2.4	19.6
10 8	0 47.90	-11 18.2	1.251	2.225	7.7	18.8	10 8	0 48.74	-6 18.2	3.930	4.911	2.5	19.6
10 18	0 38.26	-11 16.6	1.310	2.253	10.7	19.0	10 18	0 43.92	-6 45.6	3.960	4.907	4.0	19.7
10 28	0 30.66	-10 50.6	1.391	2.282	14.2	19.3	10 28	0 39.54	-7 5.1	4.019	4.903	5.8	19.8
11 7	0 25.77	-10 2.8	1.493	2.310	17.4	19.6	11 7	0 35.94	-7 15.5	4.103	4.899	7.5	20.0
<b>282305</b>	2002 <i>SQ</i> <sub>51</sub>	10 6.5 2°02	2°3/ 4.5 18				<b>99859</b>	2002 <i>OG</i> <sub>21</sub>	10 6.5 124°40	4°1/ 11.4 18			
8 29	1 10.17	+3 23.1	1.507	2.359	16.6	20.1	8 29	1 12.62	+20 30.6	2.507	3.252	13.7	19.8
9 8	1 7.65	+2 32.4	1.438	2.357	12.8	19.9	9 8	1 8.68	+20 42.5	2.416	3.254	11.5	19.7
9 18	1 2.70	+1 28.2	1.389	2.357	8.5	19.7	9 18	1 2.99	+20 38.4	2.346	3.256	8.9	19.5
9 28	0 55.92	+0 16.6	1.363	2.357	4.0	19.4	9 28	0 55.98	+20 17.7	2.300	3.258	6.2	19.4
10 8	0 48.30	-0 54.3	1.363	2.358	2.9	19.3	10 8	0 48.33	+19 42.0	2.282	3.260	4.2	19.2
10 18	0 40.92	-1 55.8	1.390	2.360	7.1	19.6	10 18	0 40.80	+18 54.7	2.291	3.262	4.7	19.3
10 28	0 34.90	-2 40.9	1.440	2.362	11.5	19.9	10 28	0 34.15	+18 0.8	2.329	3.264	7.0	19.4
11 7	0 31.02	-3 5.3	1.513	2.365	15.4	20.1	11 7	0 29.00	+17 6.1	2.394	3.266	9.6	19.6
<b>349226</b>	2007 <i>TK</i> <sub>22</sub>	10 6.5 18°31	7°1/ 2.3 18				<b>55463</b>	2001 <i>TL</i> <sub>160</sub>	10 6.5 173°58	0°7/ 7.2 18			
8 29	1 17.79	-10 8.2	1.305	2.169	17.9	19.1	8 29	1 16.38					

EPHEMERIDES

10 6.5

10 6.6

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>322601</b>	2012 <i>BX</i> <sub>30</sub>	10 6.5 198°95	1°1/ 7.3 17				<b>509164</b>	2006 <i>DK</i> <sub>155</sub>	10 6.5 226°16	1°2/ 7.7 18			
8 29	1 18.52	+ 9 41.8	1.457	2.278	18.6	21.4	8 29	1 15.13	+11 17.8	2.002	2.800	15.0	22.2
9 8	1 14.44	+ 9 37.0	1.379	2.277	14.8	21.1	9 8	1 11.07	+11 2.2	1.909	2.793	12.0	22.0
9 18	1 7.48	+ 9 14.8	1.321	2.276	10.3	20.8	9 18	1 4.84	+10 31.4	1.838	2.786	8.4	21.7
9 28	0 58.28	+ 8 37.2	1.285	2.275	5.2	20.6	9 28	0 56.96	+ 9 47.0	1.791	2.778	4.4	21.5
10 8	0 47.95	+ 7 49.2	1.274	2.273	1.1	20.3	10 8	0 48.22	+ 8 53.1	1.772	2.770	1.2	21.2
10 18	0 37.84	+ 6 57.9	1.291	2.271	5.9	20.6	10 18	0 39.58	+ 7 55.1	1.782	2.762	4.7	21.5
10 28	0 29.30	+ 6 11.7	1.333	2.269	10.9	20.9	10 28	0 32.01	+ 6 59.9	1.819	2.753	8.7	21.7
11 7	0 23.31	+ 5 37.5	1.397	2.267	15.3	21.1	11 7	0 26.28	+ 6 13.5	1.882	2.744	12.4	21.9
<b>121262</b>	1999 <i>RE</i> <sub>98</sub>	10 6.5 318°33	0°7/ 5.9 18				<b>142043</b>	2002 <i>QX</i> <sub>15</sub>	10 6.5 348°78	24°0/ 3.7 18			
8 29	1 15.63	+ 3 42.3	1.991	2.814	14.2	19.5	8 29	1 11.88	+48 40.9	1.229	1.860	30.2	18.2
9 8	1 11.40	+ 3 42.7	1.903	2.805	11.1	19.3	9 8	1 12.25	+52 5.4	1.165	1.847	29.3	18.0
9 18	1 5.03	+ 3 35.0	1.836	2.797	7.5	19.1	9 18	1 8.15	+54 56.6	1.109	1.836	28.1	17.9
9 28	0 57.02	+ 3 21.7	1.795	2.788	3.5	18.8	9 28	0 59.55	+57 0.7	1.063	1.827	26.9	17.8
10 8	0 48.18	+ 3 6.6	1.782	2.780	1.2	18.6	10 8	0 47.65	+58 5.5	1.028	1.820	25.7	17.6
10 18	0 39.44	+ 2 53.7	1.796	2.772	5.2	18.9	10 18	0 34.97	+58 2.7	1.003	1.814	24.7	17.5
10 28	0 31.77	+ 2 47.3	1.839	2.764	9.2	19.1	10 28	0 24.81	+56 53.4	0.990	1.811	24.1	17.5
11 7	0 25.93	+ 2 50.6	1.905	2.757	12.7	19.4	11 7	0 19.69	+54 48.9	0.991	1.810	24.0	17.5
<b>212902</b>	2007 <i>WY</i> <sub>31</sub>	10 6.5 160°60	3°0/10.1 18				<b>408067</b>	2012 <i>GK</i> <sub>19</sub>	10 6.5 235°32	1°4/ 4.9 18			
8 29	1 14.86	+17 46.2	2.484	3.239	13.6	21.1	8 29	1 11.83	+ 2 45.8	2.439	3.261	12.0	21.6
9 8	1 10.36	+17 42.0	2.395	3.245	11.1	20.9	9 8	1 7.97	+ 2 14.7	2.355	3.258	9.2	21.4
9 18	1 4.07	+17 22.1	2.328	3.251	8.3	20.8	9 18	1 2.46	+ 1 36.0	2.295	3.256	6.1	21.2
9 28	0 56.49	+16 47.0	2.286	3.256	5.3	20.6	9 28	0 55.74	+ 0 53.0	2.261	3.253	2.9	21.0
10 8	0 48.28	+15 59.2	2.272	3.260	3.1	20.5	10 8	0 48.44	+ 0 10.1	2.255	3.251	1.8	20.9
10 18	0 40.23	+15 2.6	2.288	3.264	4.2	20.5	10 18	0 41.28	- 0 28.2	2.279	3.248	4.9	21.2
10 28	0 33.11	+14 2.8	2.332	3.267	7.0	20.7	10 28	0 34.97	- 0 57.8	2.331	3.246	8.1	21.4
11 7	0 27.53	+13 5.6	2.404	3.270	9.8	20.9	11 7	0 30.07	- 1 15.7	2.408	3.243	11.0	21.5
<b>113265</b>	2002 <i>RK</i> <sub>150</sub>	10 6.5 35°12	3°5/ 9.2 18				<b>387280</b>	2012 <i>UH</i> <sub>133</sub>	10 6.5 40°54	5°1/10.1 18			
8 29	1 13.13	+15 32.3	1.194	2.019	21.6	18.8	8 29	1 19.41	+16 9.7	1.396	2.196	20.3	19.8
9 8	1 10.59	+15 32.2	1.136	2.031	17.5	18.5	9 8	1 15.15	+17 2.5	1.336	2.211	16.7	19.6
9 18	1 4.98	+15 5.8	1.094	2.043	12.7	18.3	9 18	1 7.91	+17 35.0	1.293	2.227	12.5	19.4
9 28	0 57.08	+14 14.2	1.074	2.057	7.5	18.1	9 28	0 58.44	+17 45.2	1.272	2.244	8.2	19.2
10 8	0 48.19	+13 3.5	1.076	2.071	3.6	17.9	10 8	0 47.99	+17 34.5	1.275	2.262	5.2	19.1
10 18	0 39.76	+11 43.3	1.102	2.085	6.2	18.1	10 18	0 37.95	+17 7.6	1.303	2.280	6.5	19.3
10 28	0 33.17	+10 25.2	1.153	2.101	11.0	18.4	10 28	0 29.69	+16 32.3	1.357	2.299	10.3	19.5
11 7	0 29.31	+ 9 19.4	1.226	2.117	15.5	18.7	11 7	0 24.11	+15 57.3	1.434	2.318	14.1	19.8
<b>25423</b>	1999 <i>VS</i> <sub>127</sub>	10 6.5 284°84	2°0/ 5.1 18 R				<b>225721</b>	2001 <i>RJ</i> <sub>85</sub>	10 6.5 72°57	2°2/ 8.2 18			
8 29	1 16.63	+ 2 43.7	1.475	2.317	17.3	19.8	8 29	1 18.71	+11 31.5	1.546	2.356	18.2	20.2
9 8	1 13.05	+ 2 19.3	1.388	2.302	13.6	19.5	9 8	1 14.33	+11 46.8	1.476	2.364	14.6	20.0
9 18	1 6.64	+ 1 42.7	1.320	2.286	9.2	19.2	9 18	1 7.23	+11 45.4	1.424	2.373	10.3	19.8
9 28	0 57.95	+ 0 58.3	1.276	2.270	4.4	18.9	9 28	0 58.11	+11 28.2	1.396	2.381	5.7	19.6
10 8	0 48.01	+ 0 13.1	1.258	2.254	2.6	18.7	10 8	0 48.04	+10 58.7	1.393	2.390	2.2	19.4
10 18	0 38.12	- 0 25.4	1.265	2.238	7.4	19.0	10 18	0 38.28	+10 22.5	1.418	2.399	5.4	19.6
10 28	0 29.63	- 0 50.1	1.298	2.222	12.3	19.2	10 28	0 30.07	+ 9 46.6	1.469	2.407	9.9	19.9
11 7	0 23.60	- 0 56.6	1.352	2.206	16.7	19.5	11 7	0 24.27	+ 9 17.8	1.543	2.416	13.9	20.2
<b>407098</b>	2009 <i>SY</i> <sub>280</sub>	10 6.5 308°03	2°1/ 4.3 18				<b>421788</b>	2014 <i>QM</i> <sub>25</sub>	10 6.5 22°31	0°8/ 5.5 18			
8 29	1 10.57	+ 1 56.0	2.073	2.909	13.3	21.5	8 29	1 8.47	+ 7 29.5	2.072	2.896	13.7	20.3
9 8	1 7.41	+ 1 14.2	1.982	2.893	10.3	21.3	9 8	1 5.65	+ 6 28.8	1.996	2.899	10.6	20.1
9 18	1 2.31	+ 0 23.0	1.913	2.878	6.9	21.0	9 18	1 1.02	+ 5 14.1	1.942	2.904	7.1	19.9
9 28	0 55.74	- 0 33.4	1.870	2.863	3.4	20.8	9 28	0 55.09	+ 3 50.2	1.915	2.908	3.2	19.6
10 8	0 48.41	- 1 29.1	1.854	2.848	2.6	20.7	10 8	0 48.56	+ 2 23.4	1.915	2.913	1.3	19.5
10 18	0 41.14	- 2 18.3	1.866	2.833	6.0	20.9	10 18	0 42.23	+ 1 0.7	1.944	2.918	5.1	19.8
10 28	0 34.81	- 2 55.4	1.905	2.818	9.7	21.1	10 28	0 36.87	- 0 11.1	2.001	2.923	8.8	20.0
11 7	0 30.11	- 3 16.9	1.968	2.804	13.0	21.3	11 7	0 33.08	- 1 7.2	2.082	2.929	12.0	20.2
<b>291645</b>	2006 <i>HR</i> <sub>41</sub>	10 6.5 81°45	3°7/ 2.9 18				<b>339240</b>	2004 <i>VS</i> <sub>15</sub>	10 6.6 358°52	4°9/10.0 18			
8 29	1 13.30	- 0 21.5	1.768	2.611	14.8	20.5	8 29	1 3.77	+15 40.2	1.001	1.855	22.8	19.5
9 8	1 9.56	- 1 35.5	1.710	2.626	11.4	20.4	9 8	1 3.95	+16 11.9	0.937	1.848	18.9	19.3
9 18	1 3.68	- 2 57.9	1.674	2.640	7.6	20.2	9 18	1 0.94	+16 15.8	0.888	1.843	14.1	19.0
9 28	0 56.31	- 4 21.4	1.665	2.654	4.3	20.0	9 28	0 55.38	+15 50.6	0.857	1.840	8.9	18.7
10 8	0 48.34	- 5 38.0	1.682	2.668	4.3	20.0	10 8	0 48.49	+15 0.1	0.846	1.840	5.0	18.5
10 18	0 40.71	- 6 40.4	1.727	2.683	7.5	20.3	10 18	0 41.84	+13 52.9	0.857	1.842	7.0	18.6
10 28	0 34.35	- 7 23.4	1.798	2.697	11.0	20.5	10 28	0 36.99	+12 41.8	0.889	1.846	11.9	18.9
11 7	0 29.91	- 7 44.8	1.892	2.710	14.2	20.8	11 7	0 35.03	+11 39.2	0.941	1.853	16.8	19.2
<b>12651</b>	Frenkel	10 6.5 347°11	2°8/ 9.6 18				<b>484507</b>	2008 <i>ES</i> <sub>13</sub>	10 6.6 223°58	4°2/ 1.3 18			
8 29	1 8.94	+16 43.7	1.941	2.731	15.7	18.4	8 29	1 10.90	- 3 25.6	2.230	3.070	12.3	21.7
9 8	1 6.32	+16 23.1	1.853	2.727	12.8	18.2	9 8	1 7.43	- 4 49.7	2.152	3.066	9.5	21.5
9 18	1 1.65	+15 42.5	1.785	2.723	9.4	18.0	9 18	1 2.19	- 6 20.2	2.099	3.061	6.6	21.3
9 28	0 55.44	+14 42.9	1.741	2.719	5.7	17.7	9 28	0 55.64	- 7 50.6	2.073	3.056	4.4	21.2
10 8	0 48.47	+13 28.5	1.723	2.716	2.9	17.5	10 8	0 48.47	- 9 13.6	2.075	3.051	4.9	21.2
10 18	0 41.64	+12 5.6	1.732	2.713	4.6	17.7	10 18	0 41.44	-10 22.7	2.106	3.046	7.5	21.4
10 28	0 35.86	+10 42.2	1.769	2.711	8.3	17.9	10 28	0 35.33	-11 13.1	2.164	3.040	10.5	21.6
11 7	0 31.85	+ 9 26.1	1.831	2.709	11.8	18.1	11 7	0 30.75	-11 42.5	2.244	3.034	13.2	21.7
<b>162047</b>	1996 <i>RJ</i> <sub>32</sub>	10 6.5 351°83	0°3/ 5.9 18				<b>343564</b>	2010 <i>FO</i> <sub>56</sub>	10 6.6 237°08	0°2/ 6.4 18			
8 29	1 6.19	+ 4 5											



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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>521484</b>	2015 <i>OD</i> <sub>94</sub>	10	6.6	103°59	3°4/ 9.9	18	<b>469641</b>	2004 <i>TH</i> <sub>34</sub>	10	6.6	3°56	0°7/ 5.9	18
8 29	1 16.10	+16 41.4	2.048	2.820	15.6	22.1	8 29	1 17.55	+ 3 11.0	2.090	2.907	13.8	20.7
9 8	1 11.68	+16 52.1	1.970	2.831	12.7	21.9	9 8	1 12.71	+ 3 18.2	2.008	2.907	10.8	20.5
9 18	1 5.14	+16 45.9	1.912	2.841	9.4	21.7	9 18	1 5.80	+ 3 18.6	1.948	2.907	7.3	20.3
9 28	0 57.05	+16 22.9	1.879	2.851	6.0	21.5	9 28	0 57.37	+ 3 14.3	1.915	2.907	3.4	20.1
10 8	0 48.24	+15 45.6	1.872	2.861	3.5	21.4	10 8	0 48.20	+ 3 8.7	1.910	2.908	1.1	19.9
10 18	0 39.65	+14 58.5	1.894	2.871	4.8	21.5	10 18	0 39.20	+ 3 5.2	1.933	2.908	5.0	20.2
10 28	0 32.22	+14 7.6	1.944	2.881	8.0	21.7	10 28	0 31.30	+ 3 7.3	1.985	2.909	8.7	20.4
11 7	0 26.65	+13 19.5	2.019	2.891	11.2	21.9	11 7	0 25.19	+ 3 17.6	2.062	2.910	12.0	20.6
<b>154211</b>	2002 <i>JZ</i> <sub>36</sub>	10	6.6	77°42	10°7/23.8	18	<b>470589</b>	2008 <i>JO</i> <sub>36</sub>	10	6.6	237°20	7°9/28.9	16
8 29	1 16.51	-28 37.8	2.233	3.047	13.2	19.4	8 29	1 15.45	-10 47.9	1.668	2.522	15.1	21.7
9 8	1 11.70	-30 5.1	2.207	3.063	11.7	19.4	9 8	1 11.66	-12 26.0	1.600	2.514	12.1	21.5
9 18	1 4.92	-31 17.8	2.202	3.078	10.9	19.3	9 18	1 5.39	-14 5.8	1.554	2.506	9.3	21.3
9 28	0 56.83	-32 8.4	2.222	3.094	10.8	19.4	9 28	0 57.26	-15 37.1	1.533	2.498	7.9	21.2
10 8	0 48.29	-32 31.7	2.264	3.109	11.5	19.4	10 8	0 48.23	-16 49.6	1.538	2.490	8.9	21.2
10 18	0 40.21	-32 25.7	2.329	3.125	12.7	19.6	10 18	0 39.42	-17 35.8	1.568	2.481	11.6	21.4
10 28	0 33.40	-31 51.6	2.414	3.140	14.1	19.7	10 28	0 31.94	-17 51.9	1.621	2.472	14.7	21.5
11 7	0 28.43	-30 52.9	2.517	3.156	15.4	19.8	11 7	0 26.63	-17 38.3	1.694	2.462	17.6	21.7
<b>313366</b>	2002 <i>JE</i> <sub>24</sub>	10	6.6	111°24	5°6/30.5	18	<b>362546</b>	2010 <i>UW</i> <sub>59</sub>	10	6.6	68°02	3°4/10.5	18
8 29	1 17.10	-13 9.9	2.510	3.339	11.4	20.9	8 29	1 11.79	+18 40.9	2.186	2.952	14.9	20.5
9 8	1 11.81	-13 52.1	2.454	3.352	9.1	20.8	9 8	1 8.24	+18 33.9	2.104	2.959	12.3	20.3
9 18	1 4.86	-14 31.0	2.423	3.366	7.0	20.7	9 18	1 2.78	+18 8.8	2.043	2.967	9.2	20.1
9 28	0 56.79	-15 1.4	2.418	3.379	5.7	20.6	9 28	0 55.94	+17 26.0	2.006	2.975	6.0	19.9
10 8	0 48.30	-15 18.7	2.442	3.392	6.1	20.7	10 8	0 48.46	+16 28.6	1.995	2.983	3.6	19.8
10 18	0 40.12	-15 20.0	2.493	3.405	7.9	20.8	10 18	0 41.17	+15 21.4	2.013	2.991	4.5	19.9
10 28	0 32.96	-15 4.2	2.571	3.418	10.1	21.0	10 28	0 34.90	+14 11.0	2.059	2.999	7.5	20.1
11 7	0 27.34	-14 31.9	2.673	3.430	12.1	21.1	11 7	0 30.29	+13 4.3	2.132	3.007	10.5	20.3
<b>209295</b>	2003 <i>YD</i> <sub>107</sub>	10	6.6	224°99	2°5/ 3.9	18	<b>50597</b>	2000 <i>EY</i> <sub>47</sub>	10	6.6	203°39	0°1/ 6.5	18
8 29	1 13.19	+ 1 11.4	2.116	2.946	13.2	20.6	8 29	1 15.20	+ 8 34.5	1.815	2.630	15.7	18.4
9 8	1 9.33	+ 0 20.6	2.032	2.941	10.2	20.4	9 8	1 11.27	+ 7 57.8	1.731	2.627	12.4	18.1
9 18	1 3.53	+ 0 39.1	1.971	2.935	6.8	20.2	9 18	1 5.05	+ 7 5.4	1.667	2.624	8.4	17.9
9 28	0 56.30	+ 1 42.8	1.937	2.929	3.5	20.0	9 28	0 57.08	+ 6 0.6	1.629	2.621	4.0	17.6
10 8	0 48.37	+ 2 44.4	1.931	2.922	3.0	20.0	10 8	0 48.27	+ 4 49.4	1.618	2.617	0.7	17.4
10 18	0 40.57	+ 3 38.0	1.953	2.916	6.2	20.2	10 18	0 39.61	+ 3 39.1	1.635	2.613	5.4	17.7
10 28	0 33.77	+ 4 18.1	2.003	2.909	9.7	20.4	10 28	0 32.16	+ 2 37.2	1.680	2.608	9.7	17.9
11 7	0 28.62	+ 4 41.9	2.076	2.902	12.8	20.6	11 7	0 26.70	+ 1 49.5	1.749	2.603	13.5	18.2
<b>518369</b>	2017 <i>FS</i> <sub>7</sub>	10	6.6	253°49	0°2/ 6.2	18	<b>76173</b>	2000 <i>EE</i> <sub>32</sub>	10	6.6	260°67	2°8/ 3.7	18
8 29	1 10.64	+ 6 55.5	2.576	3.384	11.8	21.5	8 29	1 13.17	+ 0 34.3	1.991	2.826	13.8	19.9
9 8	1 7.01	+ 6 27.8	2.485	3.379	9.2	21.3	9 8	1 9.51	+ 0 17.7	1.903	2.814	10.7	19.7
9 18	1 1.81	+ 5 50.3	2.418	3.374	6.2	21.1	9 18	1 3.78	+ 1 18.9	1.838	2.802	7.1	19.5
9 28	0 55.45	+ 5 5.6	2.377	3.369	2.9	20.9	9 28	0 56.47	+ 2 24.3	1.798	2.790	3.7	19.3
10 8	0 48.52	+ 4 17.5	2.365	3.364	0.7	20.7	10 8	0 48.37	+ 3 27.1	1.787	2.777	3.4	19.2
10 18	0 41.69	+ 3 30.3	2.383	3.358	4.1	21.0	10 18	0 40.36	+ 4 21.0	1.803	2.765	6.7	19.4
10 28	0 35.64	+ 2 48.7	2.429	3.353	7.3	21.2	10 28	0 33.37	+ 5 0.1	1.846	2.752	10.4	19.6
11 7	0 30.93	+ 2 16.3	2.501	3.348	10.2	21.4	11 7	0 28.14	+ 5 21.2	1.913	2.739	13.7	19.8
<b>520607</b>	2014 <i>OP</i> <sub>409</sub>	10	6.6	152°68	4°3/ 1.0	18	<b>219125</b>	1998 <i>US</i> <sub>11</sub>	10	6.6	333°79	1°5/ 3.9	18
8 29	1 11.54	- 6 20.4	2.548	3.385	11.1	22.1	8 29	1 6.47	- 0 32.5	3.855	4.676	7.9	19.7
9 8	1 7.62	- 7 29.1	2.480	3.390	8.6	21.9	9 8	1 3.23	- 0 57.6	3.768	4.672	6.1	19.6
9 18	1 2.14	- 8 40.2	2.437	3.395	6.1	21.8	9 18	0 59.00	- 1 26.0	3.707	4.668	4.0	19.5
9 28	0 55.57	- 9 48.3	2.421	3.399	4.4	21.7	9 28	0 54.06	- 1 55.3	3.674	4.664	2.1	19.3
10 8	0 48.51	-10 47.7	2.435	3.404	4.8	21.7	10 8	0 48.80	- 2 22.9	3.670	4.661	1.8	19.3
10 18	0 41.63	-11 33.8	2.476	3.408	7.0	21.8	10 18	0 43.60	- 2 46.5	3.696	4.657	3.6	19.4
10 28	0 35.60	-12 3.4	2.545	3.411	9.5	22.0	10 28	0 38.89	- 3 3.6	3.752	4.654	5.7	19.6
11 7	0 30.93	-12 15.3	2.636	3.415	11.7	22.2	11 7	0 35.02	- 3 12.8	3.834	4.651	7.6	19.7
<b>228431</b>	2001 <i>QZ</i>	10	6.6	2°54	1°9/ 7.9	18	<b>451830</b>	2013 <i>JC</i> <sub>8</sub>	10	6.6	60°56	4°3/ 2.3	18
8 29	1 10.26	+10 46.8	1.117	1.969	21.1	19.9	8 29	1 14.22	- 6 17.2	2.154	2.994	12.7	20.5
9 8	1 8.66	+10 54.5	1.053	1.967	16.9	19.7	9 8	1 9.93	- 6 58.2	2.091	3.002	9.8	20.3
9 18	1 3.91	+10 40.4	1.004	1.966	11.9	19.4	9 18	1 3.80	- 7 40.9	2.051	3.011	6.9	20.2
9 28	0 56.71	+10 6.5	0.976	1.967	6.3	19.1	9 28	0 56.38	- 8 19.8	2.038	3.020	4.6	20.0
10 8	0 48.30	+ 9 18.2	0.971	1.969	1.9	18.8	10 8	0 48.42	- 8 49.8	2.052	3.029	4.8	20.1
10 18	0 40.18	+ 8 24.4	0.988	1.972	6.4	19.1	10 18	0 40.74	- 9 6.5	2.094	3.038	7.2	20.2
10 28	0 33.84	+ 7 35.3	1.029	1.977	11.9	19.5	10 28	0 34.12	- 9 7.3	2.162	3.047	10.1	20.4
11 7	0 30.32	+ 6 59.5	1.090	1.984	16.7	19.8	11 7	0 29.15	- 8 51.7	2.254	3.056	12.7	20.6
<b>305115</b>	2007 <i>VG</i> <sub>90</sub>	10	6.6	280°05	3°7/ 3.2	18	<b>103849</b>	2000 <i>DK</i> <sub>35</sub>	10	6.6	334°66	2°6/ 3.9	18
8 29	1 14.61	- 2 24.0	1.874	2.715	14.2	20.7	8 29	1 9.95	+ 1 1.6	2.008	2.848	13.5	19.1
9 8	1 10.73	- 3 6.6	1.791	2.705	11.1	20.5	9 8	1 6.94	+ 0 13.3	1.927	2.841	10.4	18.9
9 18	1 4.64	- 3 55.7	1.731	2.695	7.5	20.3	9 18	1 1.99	+ 0 43.9	1.868	2.834	6.9	18.6
9 28	0 56.87	- 4 45.5	1.696	2.685	4.3	20.1	9 28	0 55.62	+ 1 45.0	1.835	2.827	3.5	18.4
10 8	0 48.27	- 5 29.5	1.688	2.675	4.3	20.1	10 8	0 48.54	- 2 43.8	1.830	2.821	3.1	18.4
10 18	0 39.81	- 6 1.8	1.708	2.665	7.5	20.2	10 18	0 41.60	- 3 34.2	1.852	2.816	6.3	18.6
10 28	0 32.48	- 6 17.6	1.753	2.655	11.1	20.4	10 28	0 35.65	- 4 10.8	1.900	2.810	9.9	18.8
11 7	0 27.06	- 6 14.9	1.822	2.645	14.4	20.6	11 7	0 31.37	- 4 30.6	1.972	2.806	13.1	19.0
<b>281837</b>	2010 <i>AV</i> <sub>71</sub>	10	6.6	174°94	3°1/ 9.4	18	<b>241428</b>	2008 <i>VA</i> <sub>67</sub>	10	6.6	64°29	1°0/ 5.9	17
8 29	1 16.52	+15 56.5	1.93										

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>265151</b>	2003 <i>WB</i> <sub>32</sub>	10	6.6 311°96	2°4/ 8.3 18			<b>316810</b>	1999 <i>VE</i> <sub>109</sub>	10	6.6 33°77	3°5/10.3 18		
8 29	1 16.66	+11 55.7	1.392	2.213	19.3	21.0	8 29	1 10.38	+18 18.9	1.766	2.553	17.1	19.6
9 8	1 13.25	+12 8.2	1.312	2.207	15.6	20.8	9 8	1 7.52	+18 6.2	1.699	2.567	14.0	19.4
9 18	1 6.86	+12 1.8	1.251	2.202	11.2	20.5	9 18	1 2.48	+17 31.7	1.650	2.582	10.4	19.2
9 28	0 58.11	+11 37.0	1.211	2.197	6.2	20.2	9 28	0 55.86	+16 36.5	1.624	2.598	6.6	19.0
10 8	0 48.12	+10 57.4	1.195	2.192	2.4	20.0	10 8	0 48.56	+15 25.2	1.624	2.614	3.7	18.9
10 18	0 38.26	+10 9.7	1.206	2.188	6.0	20.2	10 18	0 41.56	+14 4.4	1.651	2.631	4.9	19.0
10 28	0 29.98	+9 22.4	1.241	2.183	11.0	20.5	10 28	0 35.81	+12 42.8	1.705	2.648	8.4	19.3
11 7	0 24.31	+8 43.7	1.299	2.179	15.5	20.7	11 7	0 32.00	+11 28.3	1.783	2.666	11.9	19.5
<b>313262</b>	2001 <i>XF</i> <sub>33</sub>	10	6.6 184°44	3°7/ 3.4 18			<b>137654</b>	1999 <i>XP</i> <sub>2</sub>	10	6.6 220°03	1°9/ 4.9 18		
8 29	1 17.98	-0 16.7	1.652	2.490	15.9	20.6	8 29	1 17.33	+3 8.4	1.814	2.641	15.2	21.3
9 8	1 13.57	-1 16.9	1.578	2.491	12.4	20.4	9 8	1 12.97	+2 29.9	1.728	2.634	11.9	21.1
9 18	1 6.65	-2 26.9	1.527	2.491	8.3	20.2	9 18	1 6.25	+1 40.0	1.664	2.626	8.0	20.9
9 28	0 57.86	-3 40.0	1.500	2.490	4.5	20.0	9 28	0 57.70	+0 43.4	1.625	2.618	3.8	20.6
10 8	0 48.18	-4 47.7	1.501	2.489	4.3	19.9	10 8	0 48.24	-0 13.7	1.613	2.609	2.4	20.5
10 18	0 38.76	-5 42.3	1.528	2.487	8.0	20.2	10 18	0 38.91	-1 4.4	1.630	2.600	6.4	20.7
10 28	0 30.73	-6 17.7	1.582	2.485	12.0	20.4	10 28	0 30.78	-1 42.5	1.674	2.590	10.6	21.0
11 7	0 24.91	-6 31.4	1.658	2.482	15.6	20.6	11 7	0 24.69	-2 3.9	1.741	2.579	14.3	21.2
<b>466263</b>	2013 <i>KB</i> <sub>18</sub>	10	6.6 39°57	10°0/ 1.1 17			<b>197904</b>	2004 <i>RM</i> <sub>39</sub>	10	6.6 49°60	0°9/ 5.7 18		
8 29	1 18.88	-11 20.5	0.935	1.819	21.5	19.5	8 29	1 12.51	+5 14.2	1.958	2.784	14.3	20.6
9 8	1 15.22	-12 36.6	0.909	1.840	17.1	19.3	9 8	1 8.85	+4 43.2	1.889	2.793	11.1	20.4
9 18	1 8.00	-13 47.3	0.900	1.863	12.8	19.2	9 18	1 3.22	+4 1.3	1.842	2.803	7.4	20.2
9 28	0 58.40	-14 38.9	0.912	1.886	10.1	19.1	9 28	0 56.18	+3 12.4	1.820	2.814	3.4	20.0
10 8	0 48.13	-15 0.7	0.944	1.911	10.8	19.3	10 8	0 48.52	+2 22.0	1.826	2.824	1.4	19.8
10 18	0 38.90	-14 48.3	0.998	1.936	13.8	19.5	10 18	0 41.11	+1 35.5	1.860	2.835	5.2	20.1
10 28	0 32.10	-14 2.7	1.072	1.962	17.5	19.8	10 28	0 34.82	+0 58.5	1.921	2.845	9.0	20.4
11 7	0 28.44	-12 49.7	1.163	1.989	20.8	20.1	11 7	0 30.28	+0 34.5	2.007	2.856	12.2	20.6
<b>174462</b>	2002 <i>YB</i> <sub>16</sub>	10	6.6 249°84	4°0/10.8 18			<b>483781</b>	2005 <i>UJ</i> <sub>390</sub>	10	6.6 298°02	0°0/ 6.4 17		
8 29	1 13.41	+19 30.8	2.167	2.927	15.2	20.6	8 29	1 10.97	+8 28.6	2.048	2.864	14.1	22.0
9 8	1 9.71	+19 34.3	2.069	2.918	12.7	20.4	9 8	1 7.78	+7 55.9	1.957	2.855	11.1	21.8
9 18	1 3.94	+19 19.3	1.990	2.909	9.7	20.1	9 18	1 2.62	+7 9.3	1.888	2.845	7.6	21.6
9 28	0 56.58	+18 45.3	1.935	2.900	6.5	19.9	9 28	0 55.96	+6 11.6	1.844	2.836	3.6	21.3
10 8	0 48.39	+17 54.3	1.907	2.891	4.2	19.8	10 8	0 48.54	+5 8.0	1.827	2.826	0.6	21.1
10 18	0 40.24	+16 50.5	1.906	2.882	5.0	19.8	10 18	0 41.21	+4 4.4	1.839	2.817	4.8	21.4
10 28	0 33.09	+15 40.5	1.934	2.872	7.9	20.0	10 28	0 34.86	+3 7.6	1.878	2.808	8.8	21.6
11 7	0 27.68	+14 31.6	1.987	2.862	11.2	20.2	11 7	0 30.18	+2 22.6	1.942	2.799	12.3	21.8
<b>447986</b>	2008 <i>CE</i> <sub>172</sub>	10	6.6 277°59	4°8/ 1.3 18			<b>42223</b>	2001 <i>DC</i> <sub>63</sub>	10	6.6 189°23	0°5/ 6.1 18		
8 29	1 11.70	-5 14.8	2.031	2.877	13.1	20.9	8 29	1 11.65	+6 32.5	2.285	3.099	12.9	19.9
9 8	1 8.26	-6 27.0	1.956	2.872	10.2	20.7	9 8	1 8.00	+6 1.8	2.202	3.099	10.1	19.7
9 18	1 2.86	-7 44.1	1.904	2.866	7.2	20.5	9 18	1 2.58	+5 20.2	2.141	3.099	6.7	19.5
9 28	0 56.02	-8 59.1	1.879	2.860	5.0	20.4	9 28	0 55.88	+4 31.1	2.107	3.099	3.1	19.3
10 8	0 48.50	-10 4.9	1.881	2.855	5.5	20.4	10 8	0 48.56	+3 38.7	2.100	3.099	0.9	19.1
10 18	0 41.14	-10 55.0	1.910	2.849	8.2	20.6	10 18	0 41.40	+2 48.4	2.123	3.099	4.5	19.4
10 28	0 34.80	-11 25.1	1.965	2.844	11.3	20.7	10 28	0 35.15	+2 5.0	2.174	3.099	8.0	19.6
11 7	0 30.15	-11 33.7	2.042	2.838	14.1	20.9	11 7	0 30.41	+1 32.6	2.251	3.098	11.1	19.8
<b>476000</b>	2007 <i>RY</i> <sub>47</sub>	10	6.6 81°21	0°8/ 5.7 18			<b>465386</b>	2008 <i>FA</i> <sub>30</sub>	10	6.6 199°89	0°1/ 6.5 17		
8 29	1 12.77	+8 18.0	1.787	2.609	15.6	21.7	8 29	1 7.80	+7 29.6	3.367	4.167	9.5	22.1
9 8	1 9.18	+7 13.2	1.724	2.626	12.1	21.5	9 8	1 4.44	+6 59.8	3.277	4.166	7.4	21.9
9 18	1 3.47	+5 52.7	1.682	2.642	8.1	21.3	9 18	0 59.91	+6 22.1	3.211	4.164	5.0	21.7
9 28	0 56.27	+4 21.6	1.666	2.659	3.6	21.1	9 28	0 54.55	+5 38.8	3.172	4.163	2.3	21.6
10 8	0 48.47	+2 47.8	1.678	2.676	1.3	20.9	10 8	0 48.80	+4 52.6	3.163	4.162	0.4	21.4
10 18	0 41.02	+1 19.6	1.718	2.692	5.5	21.3	10 18	0 43.14	+4 7.0	3.184	4.161	3.2	21.6
10 28	0 34.81	+0 4.5	1.785	2.708	9.6	21.6	10 28	0 38.05	+3 25.3	3.235	4.159	5.7	21.8
11 7	0 30.50	-0 52.4	1.876	2.724	13.0	21.8	11 7	0 33.94	+2 50.5	3.314	4.158	8.0	22.0
<b>42700</b>	1998 <i>MO</i> <sub>10</sub>	10	6.6 11°77	6°2/29.5 18			<b>191505</b>	2003 <i>UQ</i> <sub>57</sub>	10	6.6 281°67	1°8/ 8.5 17		
8 29	1 9.78	-8 6.5	1.918	2.774	13.3	17.9	8 29	1 12.53	+12 37.1	2.396	3.183	13.2	20.2
9 8	1 6.83	-9 42.0	1.857	2.775	10.5	17.7	9 8	1 8.77	+12 36.0	2.295	3.170	10.6	20.0
9 18	1 1.91	-11 20.2	1.819	2.777	7.7	17.6	9 18	1 3.18	+12 22.0	2.216	3.158	7.6	19.8
9 28	0 55.56	-12 52.6	1.807	2.779	6.2	17.5	9 28	0 56.22	+11 56.1	2.162	3.145	4.3	19.5
10 8	0 48.58	-14 10.7	1.821	2.781	7.1	17.5	10 8	0 48.52	+11 20.8	2.137	3.133	1.8	19.4
10 18	0 41.83	-15 8.1	1.862	2.783	9.6	17.7	10 18	0 40.85	+10 39.9	2.140	3.120	4.0	19.5
10 28	0 36.16	-15 40.7	1.927	2.786	12.4	17.9	10 28	0 34.02	+9 58.4	2.172	3.107	7.4	19.7
11 7	0 32.20	-15 48.1	2.013	2.789	15.0	18.1	11 7	0 28.68	+9 21.4	2.229	3.095	10.6	19.9
<b>347535</b>	1999 <i>XH</i> <sub>189</sub>	10	6.6 310°28	9°1/13.9 18			<b>304148</b>	2006 <i>KB</i> <sub>122</sub>	10	6.6 33°52	2°1/ 7.9 18		
8 29	1 13.69	+26 51.7	1.674	2.414	19.7	19.9	8 29	1 19.27	+10 24.5	1.148	1.985	21.6	19.2
9 8	1 11.03	+27 53.6	1.570	2.391	17.3	19.7	9 8	1 14.97	+10 44.2	1.116	2.020	17.0	19.1
9 18	1 5.54	+28 32.6	1.482	2.367	14.6	19.4	9 18	1 7.61	+10 43.9	1.100	2.056	11.7	18.9
9 28	0 57.62	+28 43.2	1.413	2.344	11.7	19.2	9 28	0 58.22	+10 26.2	1.106	2.094	6.2	18.7
10 8	0 48.20	+28 22.6	1.367	2.322	9.5	19.0	10 8	0 48.24	+9 56.7	1.135	2.133	2.1	18.6
10 18	0 38.53	+27 31.6	1.345	2.300	9.3	19.0	10 18	0 39.13	+9 22.8	1.190	2.172	5.9	18.9
10 28	0 30.09	+26 17.1	1.347	2.278	11.4	19.0	10 28	0 32.12	+8 52.4	1.269	2.212	10.7	19.3
11 7	0 24.08	+24 49.8	1.371	2.257	14.6	19.2	11 7	0 27.90	+8 31.7	1.370	2.253	14.7	19.7
<b>358652</b>	2007 <i>VO</i> <sub>318</sub>	10	6.6 296°32	0°5/ 7.1 18			<b>512673</b>	2016 <i>TU</i> <sub>79</sub>	10	6.6 260°06	2°9/ 8.9 18		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>305916</b>	2009 <i>FJ</i> <sub>60</sub>	10 6.6 312°36	0°8/ 7.3 18				<b>24479</b>	2000 <i>WU</i> <sub>157</sub>	10 6.6 258°95	4°9/25.9 18			
8 29	1 14.75	+ 8 49.2	1.873	2.686	15.4	20.7	8 29	1 6.63	-21 8.3	4.482	5.302	6.9	19.2
9 8	1 10.91	+ 8 46.1	1.787	2.681	12.2	20.4	9 8	1 3.28	-21 56.3	4.418	5.295	5.9	19.1
9 18	1 4.83	+ 8 29.9	1.722	2.676	8.4	20.2	9 18	0 59.01	-22 40.0	4.380	5.289	5.1	19.0
9 28	0 57.05	+ 8 2.5	1.682	2.671	4.2	19.9	9 28	0 54.11	-23 16.0	4.369	5.283	4.9	19.0
10 8	0 48.40	+ 7 27.7	1.668	2.667	0.8	19.7	10 8	0 48.93	-23 41.6	4.385	5.277	5.4	19.1
10 18	0 39.87	+ 6 50.7	1.683	2.662	4.9	20.0	10 18	0 43.83	-23 55.1	4.428	5.271	6.3	19.1
10 28	0 32.48	+ 6 17.3	1.724	2.658	9.1	20.2	10 28	0 39.18	-23 55.4	4.495	5.264	7.4	19.2
11 7	0 27.02	+ 5 52.6	1.790	2.654	12.8	20.4	11 7	0 35.31	-23 42.5	4.585	5.258	8.5	19.3
<b>42545</b>	1996 <i>FR</i> <sub>2</sub>	10 6.6 99°61	2°8/ 9.6 18				<b>479122</b>	2013 <i>BZ</i> <sub>20</sub>	10 6.6 343°35	4°6/ 3.0 18			
8 29	1 14.82	+15 33.8	2.364	3.134	13.8	19.4	8 29	1 10.71	- 2 2.2	1.354	2.221	17.2	20.4
9 8	1 10.43	+15 44.7	2.282	3.143	11.2	19.3	9 8	1 8.50	- 2 51.1	1.283	2.211	13.4	20.1
9 18	1 4.22	+15 41.5	2.222	3.152	8.3	19.1	9 18	1 3.59	- 3 49.1	1.231	2.201	9.1	19.9
9 28	0 56.66	+15 24.6	2.186	3.160	5.1	18.9	9 28	0 56.57	- 4 48.6	1.201	2.192	5.3	19.6
10 8	0 48.48	+14 56.2	2.178	3.169	2.9	18.8	10 8	0 48.51	- 5 40.5	1.196	2.184	5.3	19.6
10 18	0 40.47	+14 19.7	2.199	3.177	4.2	18.9	10 18	0 40.64	- 6 16.3	1.216	2.177	9.2	19.8
10 28	0 33.41	+13 40.2	2.249	3.185	7.1	19.1	10 28	0 34.23	- 6 30.1	1.258	2.172	13.5	20.1
11 7	0 27.95	+13 2.7	2.325	3.193	10.1	19.3	11 7	0 30.20	- 6 19.5	1.321	2.167	17.5	20.3
<b>436432</b>	2011 <i>BD</i> <sub>52</sub>	10 6.6 162°73	1°7/ 5.1 18				<b>116591</b>	2004 <i>BT</i> <sub>102</sub>	10 6.6 111°03	0°9/ 7.4 18			
8 29	1 17.39	+ 3 29.9	1.715	2.544	15.9	21.4	8 29	1 17.80	+10 44.8	1.710	2.517	16.8	20.0
9 8	1 13.03	+ 2 55.7	1.640	2.547	12.3	21.1	9 8	1 13.27	+10 21.2	1.642	2.532	13.3	19.8
9 18	1 6.26	+ 2 10.2	1.587	2.550	8.2	20.9	9 18	1 6.36	+ 9 40.8	1.595	2.547	9.2	19.6
9 28	0 57.70	+ 1 18.1	1.559	2.552	3.8	20.7	9 28	0 57.72	+ 8 46.5	1.573	2.562	4.6	19.3
10 8	0 48.31	+ 0 25.7	1.558	2.554	2.2	20.6	10 8	0 48.35	+ 7 43.9	1.578	2.576	1.0	19.1
10 18	0 39.17	- 0 20.3	1.585	2.556	6.3	20.8	10 18	0 39.35	+ 6 40.0	1.610	2.590	5.1	19.4
10 28	0 31.37	- 0 53.8	1.638	2.557	10.6	21.1	10 28	0 31.75	+ 5 42.4	1.670	2.603	9.4	19.7
11 7	0 25.68	- 1 11.1	1.714	2.558	14.3	21.3	11 7	0 26.31	+ 4 56.8	1.754	2.616	13.1	20.0
<b>112569</b>	2002 <i>PS</i> <sub>50</sub>	10 6.6 332°72	3°8/ 2.9 18				<b>152707</b>	1998 <i>SM</i> <sub>71</sub>	10 6.6 359°60	2°1/ 4.8 18			
8 29	1 7.08	+ 1 52.0	1.464	2.326	16.4	19.0	8 29	1 12.83	+ 0 59.7	1.773	2.614	14.9	19.3
9 8	1 5.52	+ 0 30.6	1.384	2.310	12.7	18.8	9 8	1 9.42	+ 0 41.7	1.699	2.612	11.6	19.0
9 18	1 1.50	- 1 6.8	1.324	2.295	8.5	18.5	9 18	1 3.81	+ 0 15.9	1.646	2.611	7.7	18.8
9 28	0 55.58	- 2 52.4	1.289	2.281	4.6	18.2	9 28	0 56.56	- 0 13.3	1.618	2.611	3.7	18.6
10 8	0 48.65	- 4 35.5	1.279	2.268	4.6	18.2	10 8	0 48.53	- 0 40.7	1.616	2.611	2.6	18.5
10 18	0 41.84	- 6 5.0	1.294	2.256	8.7	18.4	10 18	0 40.72	- 1 1.0	1.641	2.612	6.2	18.7
10 28	0 36.29	- 7 11.7	1.333	2.245	13.1	18.6	10 28	0 34.10	- 1 9.9	1.693	2.613	10.2	19.0
11 7	0 32.88	- 7 50.8	1.393	2.234	17.1	18.9	11 7	0 29.40	- 1 4.6	1.767	2.616	13.7	19.2
<b>449025</b>	2012 <i>BD</i> <sub>140</sub>	10 6.6 203°05	0°1/ 6.4 17				<b>297526</b>	2001 <i>DT</i> <sub>70</sub>	10 6.6 115°47	3°1/ 3.0 16			
8 29	1 12.72	+ 6 51.1	2.936	3.733	10.7	22.5	8 29	1 14.03	+ 0 16.5	2.143	2.973	13.1	21.0
9 8	1 8.44	+ 6 27.8	2.841	3.729	8.4	22.3	9 8	1 9.78	- 1 0.9	2.082	2.991	10.0	20.8
9 18	1 2.71	+ 5 56.1	2.770	3.723	5.7	22.1	9 18	1 3.72	- 2 26.0	2.045	3.008	6.6	20.6
9 28	0 55.93	+ 5 18.0	2.727	3.718	2.7	21.9	9 28	0 56.40	- 3 52.6	2.035	3.025	3.7	20.5
10 8	0 48.62	+ 4 36.8	2.713	3.712	0.5	21.7	10 8	0 48.58	- 5 13.7	2.055	3.041	3.7	20.5
10 18	0 41.40	+ 3 56.2	2.730	3.705	3.7	22.0	10 18	0 41.06	- 6 22.9	2.103	3.057	6.5	20.7
10 28	0 34.87	+ 3 19.9	2.776	3.698	6.6	22.2	10 28	0 34.61	- 7 15.4	2.179	3.072	9.6	21.0
11 7	0 29.56	+ 2 51.1	2.850	3.691	9.3	22.3	11 7	0 29.79	- 7 48.9	2.279	3.087	12.4	21.2
<b>121750</b>	1999 <i>XE</i> <sub>222</sub>	10 6.6 311°25	6°3/30.4 18				<b>208867</b>	2002 <i>TK</i> <sub>1</sub>	10 6.6 46°69	0°7/ 6.1 18			
8 29	1 15.71	-12 45.3	2.149	2.989	12.7	19.6	8 29	1 16.58	+ 4 59.5	1.586	2.418	16.8	19.6
9 8	1 11.24	-13 31.8	2.079	2.984	10.2	19.4	9 8	1 12.44	+ 4 49.9	1.525	2.432	13.1	19.4
9 18	1 4.81	-14 15.7	2.032	2.979	7.8	19.3	9 18	1 5.85	+ 4 28.7	1.485	2.446	8.8	19.2
9 28	0 56.95	-14 50.8	2.010	2.974	6.4	19.2	9 28	0 57.50	+ 3 59.6	1.468	2.461	4.0	19.0
10 8	0 48.46	-15 11.2	2.016	2.970	7.0	19.2	10 8	0 48.41	+ 3 28.0	1.478	2.476	1.2	18.8
10 18	0 40.18	-15 13.0	2.048	2.965	9.1	19.3	10 18	0 39.70	+ 2 59.6	1.514	2.491	5.8	19.1
10 28	0 32.98	-14 54.4	2.105	2.961	11.6	19.5	10 28	0 32.47	+ 2 39.8	1.577	2.507	10.1	19.4
11 7	0 27.51	-14 16.1	2.185	2.956	14.1	19.7	11 7	0 27.44	+ 2 32.5	1.663	2.523	13.8	19.7
<b>30836</b>	<i>Schnittke</i>	10 6.6 220°89	2°3/ 8.7 18				<b>520574</b>	2014 <i>NB</i> <sub>71</sub>	10 6.6 63°34	1°1/ 7.8 18			
8 29	1 16.72	+13 46.4	1.990	2.776	15.5	19.8	8 29	1 12.80	+10 58.8	2.152	2.952	14.0	21.5
9 8	1 12.42	+13 42.8	1.895	2.769	12.6	19.5	9 8	1 8.98	+10 45.9	2.076	2.961	11.1	21.3
9 18	1 5.86	+13 22.9	1.821	2.761	9.1	19.3	9 18	1 3.29	+10 19.6	2.022	2.971	7.8	21.1
9 28	0 57.56	+12 47.2	1.771	2.753	5.2	19.1	9 28	0 56.25	+ 9 42.0	1.993	2.980	4.1	20.9
10 8	0 48.34	+11 58.9	1.749	2.744	2.3	18.9	10 8	0 48.61	+ 8 56.9	1.991	2.989	1.2	20.7
10 18	0 39.19	+11 3.1	1.755	2.735	4.7	19.0	10 18	0 41.17	+ 8 9.1	2.019	2.999	4.2	21.0
10 28	0 31.13	+10 6.6	1.789	2.726	8.6	19.2	10 28	0 34.75	+ 7 24.2	2.074	3.009	7.7	21.2
11 7	0 24.99	+ 9 16.1	1.849	2.715	12.3	19.4	11 7	0 29.97	+ 6 47.0	2.155	3.018	10.9	21.5
<b>336784</b>	2011 <i>CV</i> <sub>17</sub>	10 6.6 136°46	2°6/ 4.1 18				<b>106305</b>	2000 <i>UD</i> <sub>90</sub>	10 6.6 298°25	1°6/ 7.9 18			
8 29	1 17.80	+ 0 56.5	1.898	2.726	14.6	21.3	8 29	1 13.33	+11 28.4	1.627	2.444	17.2	20.1
9 8	1 12.99	+ 0 9.3	1.831	2.738	11.3	21.1	9 8	1 10.35	+11 19.9	1.533	2.427	13.8	19.8
9 18	1 6.03	- 0 46.4	1.787	2.749	7.5	20.9	9 18	1 4.80	+10 53.2	1.457	2.410	9.8	19.6
9 28	0 57.52	- 1 45.2	1.768	2.759	3.8	20.7	9 28	0 57.19	+10 9.7	1.405	2.393	5.2	19.3
10 8	0 48.37	- 2 40.4	1.777	2.769	3.1	20.7	10 8	0 48.43	+ 9 13.5	1.378	2.376	1.6	19.0
10 18	0 39.53	- 3 26.2	1.816	2.779	6.5	20.9	10 18	0 39.66	+ 8 11.3	1.378	2.360	5.4	19.2
10 28	0 31.94	- 3 57.5	1.881	2.787	10.2	21.2	10 28	0 32.12	+ 7 11.6	1.404	2.343	10.2	19.4
11 7	0 26.29	- 4 11.8	1.969	2.796	13.4	21.4	11 7	0 26.76	+ 6 22.1	1.453	2.327	14.6	19.7
<b>172238</b>	2002 <i>RY</i> <sub>179</sub>	10 6.6 259°54	1°2/ 5.2 18				<b>513495</b>	2009 <i>HB</i> <sub>32</sub>	10 6.6 179°50	3°0/ 3.4 18			
8 29	1 10.84	+ 6 55.8											

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>345385</b>	2006 <i>BR</i> <sub>79</sub>	10 6.6	38°15'	2.7/ 8.2	18		<b>223170</b>	2002 <i>YP</i> <sub>7</sub>	10 6.6	321°26'	5.9/ 2.2	18	R
8 29	1 22.30	+ 9 38.9	1.313	2.135	20.2	19.5	8 29	1 9.90	- 2 46.2	1.182	2.059	18.4	19.9
9 8	1 17.42	+10 29.7	1.259	2.154	16.1	19.3	9 8	1 8.58	- 3 48.8	1.095	2.029	14.6	19.6
9 18	1 9.45	+11 5.3	1.223	2.174	11.3	19.1	9 18	1 4.15	- 5 4.5	1.027	1.999	10.2	19.2
9 28	0 59.25	+11 25.5	1.209	2.195	6.3	18.9	9 28	0 57.10	- 6 24.4	0.980	1.970	6.5	18.9
10 8	0 48.13	+11 32.3	1.220	2.217	2.7	18.7	10 8	0 48.47	- 7 36.3	0.956	1.941	6.9	18.9
10 18	0 37.56	+11 30.1	1.258	2.239	6.0	19.0	10 18	0 39.71	- 8 28.3	0.954	1.914	11.4	19.0
10 28	0 28.93	+11 25.0	1.320	2.261	10.6	19.3	10 28	0 32.46	- 8 50.9	0.974	1.888	16.5	19.2
11 7	0 23.10	+11 23.0	1.406	2.285	14.7	19.7	11 7	0 27.96	- 8 40.7	1.011	1.863	21.2	19.4
<b>343920</b>	2011 <i>KU</i>	10 6.6	29°04'	3.8/ 3.7	18		<b>89918</b>	2002 <i>ER</i> <sub>33</sub>	10 6.6	249°61'	0.8/ 5.1	18	
8 29	1 12.85	+ 0 4.5	1.312	2.174	17.9	20.0	8 29	1 6.34	+ 2 17.2	4.380	5.189	7.3	20.1
9 8	1 9.99	- 0 48.9	1.259	2.184	13.8	19.8	9 8	1 3.05	+ 1 58.5	4.290	5.187	5.6	20.0
9 18	1 4.41	- 1 52.5	1.225	2.195	9.2	19.6	9 18	0 58.87	+ 1 36.0	4.226	5.185	3.7	19.9
9 28	0 56.87	- 2 58.6	1.214	2.206	4.9	19.4	9 28	0 54.08	+ 1 11.5	4.190	5.183	1.7	19.7
10 8	0 48.52	- 3 57.8	1.228	2.219	4.5	19.4	10 8	0 49.01	+ 0 47.1	4.185	5.180	1.0	19.6
10 18	0 40.62	- 4 41.9	1.266	2.232	8.4	19.6	10 18	0 43.99	+ 0 24.9	4.210	5.178	2.9	19.8
10 28	0 34.34	- 5 5.2	1.329	2.245	12.7	19.9	10 28	0 39.39	+ 0 6.9	4.264	5.176	4.8	19.9
11 7	0 30.47	- 5 5.6	1.412	2.260	16.5	20.2	11 7	0 35.53	- 0 5.3	4.346	5.174	6.6	20.1
<b>117062</b>	2004 <i>KT</i> <sub>3</sub>	10 6.6	119°17'	0.3/ 6.3	18		<b>392345</b>	2010 <i>EQ</i> <sub>143</sub>	10 6.6	204°61'	3.1/ 9.8	18	
8 29	1 14.33	+ 6 39.8	2.203	3.014	13.4	20.4	8 29	1 15.28	+17 1.8	2.141	2.910	15.1	21.5
9 8	1 10.10	+ 6 16.6	2.127	3.022	10.5	20.2	9 8	1 11.14	+16 55.7	2.046	2.906	12.4	21.3
9 18	1 4.01	+ 5 42.8	2.073	3.030	7.0	20.0	9 18	1 4.92	+16 31.9	1.973	2.902	9.2	21.1
9 28	0 56.58	+ 5 1.4	2.046	3.038	3.3	19.8	9 28	0 57.12	+15 50.7	1.923	2.897	5.7	20.9
10 8	0 48.57	+ 4 16.8	2.047	3.045	0.7	19.6	10 8	0 48.51	+14 54.8	1.901	2.892	3.2	20.7
10 18	0 40.76	+ 3 33.7	2.077	3.053	4.5	19.9	10 18	0 40.00	+13 49.2	1.908	2.887	4.6	20.8
10 28	0 33.96	+ 2 57.2	2.135	3.060	8.1	20.1	10 28	0 32.52	+12 40.7	1.943	2.881	8.0	21.0
11 7	0 28.79	+ 2 31.0	2.218	3.067	11.3	20.4	11 7	0 26.81	+11 36.2	2.004	2.874	11.3	21.2
<b>164101</b>	2003 <i>WD</i> <sub>168</sub>	10 6.6	132°34'	0.9/ 5.8	18		<b>239398</b>	2007 <i>TV</i> <sub>36</sub>	10 6.6	82°04'	0.0/ 6.5	18	
8 29	1 15.57	+ 4 53.9	1.881	2.705	14.9	20.2	8 29	1 15.56	+ 7 11.7	1.804	2.623	15.6	20.8
9 8	1 11.42	+ 4 30.3	1.805	2.707	11.6	20.0	9 8	1 11.51	+ 6 54.4	1.730	2.629	12.2	20.6
9 18	1 5.09	+ 3 55.7	1.749	2.710	7.8	19.7	9 18	1 5.20	+ 6 24.3	1.678	2.636	8.3	20.4
9 28	0 57.16	+ 3 13.8	1.719	2.712	3.6	19.5	9 28	0 57.24	+ 5 44.4	1.650	2.642	3.9	20.2
10 8	0 48.47	+ 2 29.8	1.717	2.714	1.4	19.3	10 8	0 48.52	+ 4 59.7	1.649	2.648	0.7	19.9
10 18	0 39.99	+ 1 49.3	1.742	2.717	5.5	19.6	10 18	0 40.05	+ 4 16.2	1.676	2.654	5.2	20.3
10 28	0 32.70	+ 1 17.8	1.795	2.719	9.5	19.9	10 28	0 32.82	+ 3 39.7	1.730	2.660	9.3	20.5
11 7	0 27.31	+ 0 59.3	1.872	2.721	13.0	20.1	11 7	0 27.58	+ 3 14.9	1.809	2.667	13.0	20.8
<b>15527</b>	1999 <i>YY</i> <sub>2</sub>	10 6.6	20°95'	1.8/ 3.2	18	R	<b>264329</b>	1999 <i>UN</i> <sub>21</sub>	10 6.6	350°66'	0.6/ 7.1	18	
8 29	1 4.54	+ 0 14.4	3.635	4.461	8.3	17.4	8 29	1 12.13	+ 9 31.4	1.222	2.068	20.0	21.4
9 8	1 1.84	- 0 43.7	3.559	4.466	6.3	17.3	9 8	1 9.97	+ 9 15.1	1.151	2.064	15.9	21.1
9 18	0 58.14	- 1 46.4	3.509	4.472	4.2	17.2	9 18	1 4.79	+ 8 37.8	1.097	2.060	11.0	20.9
9 28	0 53.74	- 2 50.4	3.487	4.477	2.2	17.0	9 28	0 57.25	+ 7 42.5	1.065	2.057	5.4	20.5
10 8	0 49.03	- 3 52.2	3.495	4.483	2.2	17.0	10 8	0 48.50	+ 6 36.4	1.056	2.055	0.8	20.2
10 18	0 44.42	- 4 48.3	3.533	4.489	4.1	17.2	10 18	0 39.99	+ 5 28.9	1.071	2.053	6.5	20.6
10 28	0 40.31	- 5 35.7	3.601	4.495	6.2	17.3	10 28	0 33.14	+ 4 30.5	1.110	2.053	12.0	20.9
11 7	0 37.06	- 6 12.4	3.694	4.501	8.1	17.5	11 7	0 28.97	+ 3 49.1	1.170	2.053	16.7	21.2
<b>457884</b>	2009 <i>SE</i> <sub>339</sub>	10 6.6	8°21'	4.9/12.2	16		<b>43485</b>	2001 <i>BN</i> <sub>43</sub>	10 6.6	120°56'	4.6/29.9	18	
8 29	1 6.02	+23 4.3	1.671	2.446	18.4	20.4	8 29	1 11.29	- 7 43.6	2.712	3.548	10.5	20.1
9 8	1 4.46	+22 41.1	1.592	2.448	15.5	20.2	9 8	1 7.34	- 9 11.6	2.655	3.563	8.2	19.9
9 18	1 0.63	+21 49.8	1.532	2.452	12.0	20.0	9 18	1 1.95	-10 40.9	2.624	3.578	5.9	19.8
9 28	0 55.12	+20 30.5	1.493	2.456	8.2	19.8	9 28	0 55.58	-12 5.7	2.622	3.592	4.6	19.8
10 8	0 48.81	+18 47.8	1.478	2.462	5.2	19.6	10 8	0 48.80	-13 20.0	2.648	3.607	5.2	19.8
10 18	0 42.73	+16 49.9	1.490	2.469	5.6	19.7	10 18	0 42.23	-14 19.4	2.704	3.620	7.2	20.0
10 28	0 37.89	+14 47.9	1.529	2.477	8.8	19.9	10 28	0 36.46	-15 0.9	2.786	3.634	9.3	20.1
11 7	0 35.02	+12 53.0	1.593	2.486	12.4	20.1	11 7	0 31.97	-15 23.6	2.892	3.647	11.3	20.3
<b>513967</b>	2014 <i>FJ</i> <sub>20</sub>	10 6.6	50°52'	8.0/13.3	18		<b>97380</b>	2000 <i>AR</i> <sub>69</sub>	10 6.6	205°24'	6.2/27.9	18	
8 29	1 19.43	+24 33.3	1.619	2.365	20.0	20.7	8 29	1 13.53	-16 23.3	2.859	3.688	10.2	19.6
9 8	1 15.13	+25 40.4	1.551	2.379	17.2	20.5	9 8	1 9.12	-17 28.6	2.791	3.683	8.4	19.4
9 18	1 7.98	+26 23.9	1.499	2.393	13.9	20.4	9 18	1 3.19	-18 30.3	2.747	3.678	6.8	19.3
9 28	0 58.64	+26 39.9	1.469	2.408	10.7	20.2	9 28	0 56.19	-19 23.0	2.731	3.672	6.2	19.3
10 8	0 48.24	+26 27.5	1.462	2.422	8.4	20.1	10 8	0 48.70	-20 1.6	2.742	3.666	6.8	19.3
10 18	0 38.11	+25 49.9	1.480	2.437	8.3	20.2	10 18	0 41.36	-20 22.7	2.780	3.660	8.4	19.4
10 28	0 29.58	+24 54.8	1.523	2.453	10.4	20.3	10 28	0 34.81	-20 24.8	2.844	3.653	10.2	19.5
11 7	0 23.58	+23 52.4	1.590	2.468	13.3	20.5	11 7	0 29.56	-20 8.0	2.929	3.646	12.0	19.7
<b>1654</b>	Bojeva	10 6.6	10°58'	1.3/ 5.5	18		<b>132691</b>	2002 <i>NY</i> <sub>32</sub>	10 6.6	42°82'	7.5/13.9	18	
8 29	1 16.08	+ 2 10.4	1.928	2.756	14.4	15.1	8 29	1 14.67	+25 50.9	1.642	2.388	19.8	19.4
9 8	1 11.77	+ 2 6.0	1.852	2.757	11.2	14.9	9 8	1 11.33	+26 28.3	1.573	2.401	17.0	19.2
9 18	1 5.31	+ 1 54.3	1.797	2.758	7.5	14.7	9 18	1 5.35	+26 39.6	1.521	2.415	13.7	19.0
9 28	0 57.26	+ 1 38.5	1.767	2.760	3.5	14.5	9 28	0 57.39	+26 22.0	1.489	2.429	10.5	18.9
10 8	0 48.48	+ 1 22.7	1.765	2.762	1.7	14.4	10 8	0 48.50	+25 36.4	1.480	2.444	8.0	18.8
10 18	0 39.90	+ 1 11.1	1.791	2.765	5.5	14.6	10 18	0 39.91	+24 27.6	1.496	2.459	7.7	18.8
10 28	0 32.48	+ 1 7.8	1.845	2.767	9.4	14.9	10 28	0 32.82	+23 4.6	1.538	2.474	9.8	18.9
11 7	0 26.93	+ 1 15.3	1.922	2.770	12.8	15.1	11 7	0 28.06	+21 38.1	1.604	2.490	12.8	19.2
<b>477914</b>	2011 <i>ML</i> <sub>5</sub>	10 6.6	62°85'	13.7/27.9	17		<b>378119</b>	2006 <i>UW</i> <sub>319</sub>	10 6.6	275°10'	1.9/ 8.2	17	
8 29	1 17.62	+49 14.2	1.857	2.410									

EPHEMERIDES

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>518591</b>	2007 VB <sub>107</sub>	10	6.6 237°91	1.1/ 7.8 18			<b>198573</b>	2004 XX <sub>177</sub>	10	6.6 200°78	5.6/ 1.7 18		
8 29	1 14.20	+11 38.0	2.434	3.221	13.0	22.8	8 29	1 19.74	- 9 14.0	1.995	2.830	13.7	20.3
9 8	1 10.07	+11 16.4	2.329	3.206	10.4	22.6	9 8	1 14.55	- 9 57.6	1.922	2.827	10.9	20.2
9 18	1 4.10	+10 41.3	2.246	3.191	7.3	22.4	9 18	1 7.15	-10 41.2	1.871	2.825	7.9	20.0
9 28	0 56.73	+ 9 54.2	2.189	3.175	3.9	22.2	9 28	0 58.15	-11 18.3	1.846	2.821	5.8	19.8
10 8	0 48.61	+ 8 58.5	2.161	3.158	1.1	21.9	10 8	0 48.41	-11 43.0	1.849	2.818	6.2	19.9
10 18	0 40.51	+ 7 58.9	2.162	3.141	4.0	22.1	10 18	0 38.90	-11 50.4	1.880	2.814	8.7	20.0
10 28	0 33.23	+ 7 1.0	2.193	3.124	7.6	22.3	10 28	0 30.62	-11 38.3	1.937	2.810	11.7	20.2
11 7	0 27.45	+ 6 10.4	2.250	3.106	10.8	22.5	11 7	0 24.27	-11 6.8	2.016	2.805	14.5	20.4
<b>398014</b>	2009 CN <sub>53</sub>	10	6.6 261°06	3.0/10.4 18			<b>15136</b>	2000 EE <sub>93</sub>	10	6.6 193°74	5.6/29.1 18		
8 29	1 13.98	+21 12.1	2.299	3.044	14.8	21.6	8 29	1 10.87	-11 3.8	2.542	3.383	10.9	18.0
9 8	1 10.17	+20 17.2	2.176	3.018	12.4	21.3	9 8	1 7.23	-12 21.1	2.475	3.382	8.7	17.8
9 18	1 4.33	+18 57.8	2.073	2.992	9.4	21.1	9 18	1 2.01	-13 38.1	2.433	3.381	6.6	17.7
9 28	0 56.90	+17 14.0	1.996	2.966	6.0	20.8	9 28	0 55.67	-14 48.8	2.418	3.380	5.6	17.6
10 8	0 48.58	+15 9.6	1.948	2.939	3.2	20.6	10 8	0 48.81	-15 47.2	2.431	3.379	6.3	17.7
10 18	0 40.24	+12 51.5	1.931	2.911	4.4	20.6	10 18	0 42.11	-16 28.8	2.471	3.378	8.2	17.8
10 28	0 32.81	+10 29.8	1.945	2.882	8.0	20.8	10 28	0 36.24	-16 50.9	2.537	3.377	10.4	17.9
11 7	0 27.03	+ 8 14.7	1.988	2.852	11.7	21.0	11 7	0 31.74	-16 53.1	2.625	3.375	12.5	18.1
<b>286792</b>	2002 JE <sub>106</sub>	10	6.6 82°64	2.3/ 4.7 16			<b>72629</b>	2001 FZ <sub>29</sub>	10	6.6 97°24	4.2/12.1 18		
8 29	1 19.73	+ 1 8.2	1.817	2.643	15.2	21.0	8 29	1 13.03	+22 26.8	2.528	3.260	13.9	19.3
9 8	1 14.39	+ 0 36.0	1.766	2.671	11.7	20.9	9 8	1 8.99	+22 28.0	2.448	3.275	11.7	19.1
9 18	1 6.89	- 0 3.6	1.736	2.698	7.7	20.7	9 18	1 3.23	+22 11.6	2.388	3.289	9.1	19.0
9 28	0 57.92	- 0 45.8	1.733	2.725	3.7	20.5	9 28	0 56.25	+21 37.5	2.352	3.304	6.4	18.8
10 8	0 48.45	- 1 24.7	1.758	2.752	2.7	20.5	10 8	0 48.72	+20 47.8	2.343	3.318	4.5	18.7
10 18	0 39.47	- 1 55.1	1.811	2.778	6.2	20.8	10 18	0 41.39	+19 46.3	2.363	3.333	4.7	18.8
10 28	0 31.90	- 2 12.9	1.892	2.804	9.8	21.1	10 28	0 34.99	+18 38.7	2.412	3.347	6.8	18.9
11 7	0 26.36	- 2 16.1	1.996	2.829	13.0	21.3	11 7	0 30.10	+17 31.0	2.487	3.360	9.3	19.1
<b>319334</b>	2006 BV <sub>239</sub>	10	6.6 95°46	4.2/ 1.6 18			<b>30648</b>	6679 P-L	10	6.6 168°78	1.0/ 7.5 18		
8 29	1 11.51	- 5 28.1	2.346	3.186	11.8	20.8	8 29	1 18.69	+ 9 45.7	1.831	2.635	16.0	19.6
9 8	1 7.78	- 6 31.4	2.281	3.193	9.1	20.6	9 8	1 14.02	+ 9 41.1	1.750	2.638	12.7	19.4
9 18	1 2.40	- 7 37.8	2.239	3.199	6.4	20.5	9 18	1 6.96	+ 9 22.3	1.689	2.640	8.8	19.1
9 28	0 55.84	- 8 41.5	2.225	3.206	4.4	20.4	9 28	0 58.12	+ 8 51.1	1.654	2.642	4.5	18.9
10 8	0 48.77	- 9 36.6	2.239	3.212	4.8	20.4	10 8	0 48.41	+ 8 11.5	1.645	2.644	1.1	18.7
10 18	0 41.92	-10 18.5	2.280	3.219	7.1	20.6	10 18	0 38.90	+ 7 28.9	1.665	2.645	5.0	18.9
10 28	0 35.97	-10 43.6	2.349	3.225	9.7	20.7	10 28	0 30.65	+ 6 49.6	1.712	2.645	9.2	19.2
11 7	0 31.49	-10 50.9	2.440	3.232	12.2	20.9	11 7	0 24.47	+ 6 19.2	1.785	2.646	13.0	19.4
<b>97472</b>	Hobby	10	6.6 243°07	3.2/10.4 17			<b>507810</b>	2014 DJ <sub>21</sub>	10	6.6 211°96	8.0/28.0 18		
8 29	1 13.88	+17 50.9	2.750	3.500	12.5	21.3	8 29	1 15.16	-14 3.6	1.936	2.782	13.6	21.1
9 8	1 9.65	+18 1.9	2.643	3.489	10.4	21.1	9 8	1 11.11	-15 36.9	1.873	2.779	11.1	21.0
9 18	1 3.74	+17 59.4	2.558	3.476	7.8	20.9	9 18	1 4.90	-17 8.0	1.833	2.775	8.9	20.8
9 28	0 56.54	+17 43.4	2.498	3.464	5.2	20.7	9 28	0 57.11	-18 28.1	1.819	2.771	8.0	20.8
10 8	0 48.65	+17 15.0	2.466	3.451	3.3	20.6	10 8	0 48.58	-19 28.7	1.831	2.767	8.9	20.8
10 18	0 40.76	+16 37.1	2.464	3.438	4.1	20.6	10 18	0 40.29	-20 4.2	1.868	2.762	11.1	21.0
10 28	0 33.62	+15 53.9	2.491	3.425	6.6	20.8	10 28	0 33.18	-20 12.0	1.928	2.757	13.7	21.1
11 7	0 27.83	+15 10.4	2.544	3.411	9.3	20.9	11 7	0 27.95	-19 53.2	2.009	2.752	16.0	21.3
<b>476894</b>	2008 WR <sub>12</sub>	10	6.6 8°10	7.1/13.0 18			<b>2188</b>	Orlenok	10	6.6 30°67	1.2/ 5.4 18		
8 29	1 10.44	+23 45.4	1.391	2.172	21.3	19.6	8 29	1 12.31	+ 4 47.7	1.844	2.675	14.8	15.9
9 8	1 8.51	+24 12.6	1.318	2.173	18.1	19.4	9 8	1 8.92	+ 4 12.0	1.772	2.680	11.5	15.7
9 18	1 3.74	+24 10.8	1.260	2.174	14.4	19.2	9 18	1 3.44	+ 3 24.8	1.722	2.685	7.7	15.5
9 28	0 56.73	+23 37.1	1.221	2.177	10.6	19.0	9 28	0 56.42	+ 2 30.3	1.696	2.690	3.5	15.2
10 8	0 48.61	+22 33.2	1.205	2.181	7.6	18.8	10 8	0 48.70	+ 1 34.5	1.698	2.695	1.7	15.1
10 18	0 40.71	+21 5.4	1.213	2.185	7.6	18.9	10 18	0 41.22	+ 0 43.7	1.727	2.701	5.6	15.4
10 28	0 34.38	+19 25.2	1.245	2.191	10.5	19.0	10 28	0 34.88	+ 0 3.8	1.783	2.707	9.6	15.6
11 7	0 30.57	+17 45.4	1.300	2.197	14.3	19.3	11 7	0 30.39	- 0 21.4	1.863	2.713	13.0	15.9
<b>391536</b>	2007 RC <sub>309</sub>	10	6.6 266°65	0.7/ 5.3 18			<b>321484</b>	Marsaalam	10	6.6 66°29	4.8/11.4 18		
8 29	1 4.56	+ 3 49.5	4.513	5.321	7.1	21.5	8 29	1 17.49	+19 58.2	2.247	2.992	15.1	20.4
9 8	1 1.69	+ 3 18.7	4.422	5.317	5.5	21.4	9 8	1 12.74	+20 38.9	2.166	3.003	12.6	20.2
9 18	0 57.98	+ 2 43.3	4.356	5.314	3.6	21.3	9 18	1 5.93	+21 3.6	2.106	3.014	9.8	20.1
9 28	0 53.69	+ 2 5.2	4.318	5.311	1.7	21.1	9 28	0 57.59	+21 11.0	2.070	3.025	6.9	19.9
10 8	0 49.12	+ 1 26.7	4.311	5.307	0.9	21.0	10 8	0 48.51	+21 1.6	2.060	3.036	5.0	19.8
10 18	0 44.61	+ 0 50.0	4.334	5.304	2.7	21.2	10 18	0 39.58	+20 38.1	2.079	3.047	5.4	19.8
10 28	0 40.49	+ 0 17.5	4.387	5.300	4.6	21.3	10 28	0 31.72	+20 5.4	2.126	3.058	7.7	20.0
11 7	0 37.06	- 0 8.9	4.467	5.297	6.4	21.5	11 7	0 25.64	+19 29.4	2.198	3.069	10.5	20.2
<b>18479</b>	1995 XR	10	6.6 156°90	3.2/10.4 18			<b>86733</b>	2000 GS <sub>41</sub>	10	6.6 111°04	0.4/ 6.9 18		
8 29	1 12.21	+18 27.6	2.339	3.100	14.2	18.0	8 29	1 16.78	+ 9 13.8	1.680	2.495	16.7	20.3
9 8	1 8.54	+18 17.8	2.249	3.102	11.7	17.8	9 8	1 12.61	+ 8 50.9	1.609	2.505	13.2	20.1
9 18	1 3.04	+17 50.8	2.180	3.104	8.7	17.6	9 18	1 6.03	+ 8 12.3	1.559	2.514	9.0	19.9
9 28	0 56.20	+17 7.1	2.136	3.105	5.6	17.5	9 28	0 57.67	+ 7 20.9	1.532	2.523	4.4	19.6
10 8	0 48.71	+16 9.4	2.119	3.107	3.3	17.3	10 8	0 48.51	+ 6 22.5	1.533	2.532	0.7	19.4
10 18	0 41.36	+15 2.3	2.131	3.108	4.3	17.4	10 18	0 39.66	+ 5 24.0	1.561	2.541	5.3	19.7
10 28	0 34.93	+13 52.0	2.171	3.110	7.2	17.6	10 28	0 32.18	+ 4 32.6	1.616	2.549	9.7	20.0
11 7	0 30.07	+12 45.0	2.238	3.111	10.2	17.8	11 7	0 26.85	+ 3 54.0	1.695	2.557	13.5	20.3
<b>63290</b>	2001 DS <sub>87</sub>	10	6.6 168°28	1.4/ 3.6 18			<b>97469</b>	2000 C7 <sub>38</sub>	10	6.6 312°38	4.0/ 1.9 18		
8 29	1 4.92	- 1 9.4	4.797	5.615	6.5	19.9	8 29	1 10.90	- 4 4.8	2.253	3.094	12.1	19.4
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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>309017</b>	2006 UC <sub>111</sub>	10	6.6 317°99	2°2/ 8.5 17			<b>360143</b>	2013 CS <sub>48</sub>	10	6.6 222°06	1°5/ 3.6 18		
8 29	1 11.85	+12 36.9	1.678	2.490	16.9	21.0	8 29	1 5.68	- 1 40.8	4.546	5.365	6.9	21.5
9 8	1 9.15	+12 38.4	1.581	2.472	13.7	20.7	9 8	1 2.54	- 2 7.5	4.461	5.364	5.2	21.4
9 18	1 3.99	+12 22.3	1.505	2.454	9.9	20.5	9 18	0 58.55	- 2 36.6	4.402	5.363	3.5	21.3
9 28	0 56.86	+11 49.0	1.451	2.436	5.6	20.2	9 28	0 53.99	- 3 5.9	4.372	5.361	1.9	21.2
10 8	0 48.62	+11 2.1	1.422	2.419	2.2	19.9	10 8	0 49.16	- 3 33.4	4.372	5.360	1.8	21.2
10 18	0 40.35	+10 7.2	1.420	2.402	5.2	20.1	10 18	0 44.39	- 3 56.8	4.402	5.358	3.3	21.3
10 28	0 33.24	+ 9 12.2	1.444	2.386	9.8	20.3	10 28	0 40.03	- 4 14.4	4.461	5.357	5.0	21.4
11 7	0 28.23	+ 8 24.7	1.491	2.370	14.0	20.5	11 7	0 36.36	- 4 24.8	4.547	5.355	6.7	21.5
<b>71218</b>	1999 YF <sub>5</sub>	10	6.6 181°73	6°9/27.9 18			<b>138293</b>	2000 GF <sub>37</sub>	10	6.6 35°63	0°4/ 6.3 18		
8 29	1 13.66	-16 51.1	2.538	3.372	11.2	19.4	8 29	1 15.19	+ 6 0.0	1.764	2.589	15.7	19.9
9 8	1 9.38	-17 59.4	2.478	3.372	9.2	19.2	9 8	1 11.30	+ 5 47.6	1.691	2.593	12.3	19.6
9 18	1 3.45	-19 3.2	2.441	3.372	7.6	19.1	9 18	1 5.13	+ 5 23.4	1.638	2.598	8.3	19.4
9 28	0 56.35	-19 56.3	2.431	3.372	6.9	19.1	9 28	0 57.28	+ 4 50.6	1.611	2.603	3.9	19.2
10 8	0 48.74	-20 33.1	2.448	3.372	7.6	19.1	10 8	0 48.64	+ 4 14.0	1.610	2.608	0.9	19.0
10 18	0 41.33	-20 50.3	2.491	3.371	9.2	19.2	10 18	0 40.25	+ 3 39.2	1.636	2.614	5.3	19.3
10 28	0 34.84	-20 46.3	2.559	3.371	11.2	19.4	10 28	0 33.11	+ 3 11.9	1.689	2.619	9.5	19.6
11 7	0 29.81	-20 21.8	2.648	3.370	13.0	19.5	11 7	0 27.97	+ 2 56.2	1.766	2.625	13.2	19.8
<b>225716</b>	2001 RH <sub>23</sub>	10	6.6 52°69	0°2/ 6.8 16			<b>222908</b>	2002 HF <sub>18</sub>	10	6.6 63°14	0°0/ 6.6 18		
8 29	1 16.61	+ 8 11.0	1.347	2.182	19.1	20.7	8 29	1 12.73	+ 7 39.5	2.125	2.938	13.8	20.7
9 8	1 12.91	+ 7 54.3	1.290	2.197	15.0	20.5	9 8	1 8.91	+ 7 13.4	2.057	2.952	10.7	20.5
9 18	1 6.40	+ 7 20.5	1.253	2.213	10.2	20.3	9 18	1 3.26	+ 6 35.8	2.010	2.967	7.2	20.3
9 28	0 57.87	+ 6 33.5	1.238	2.230	4.8	20.0	9 28	0 56.31	+ 5 49.7	1.990	2.982	3.4	20.1
10 8	0 48.51	+ 5 40.2	1.248	2.247	0.7	19.8	10 8	0 48.80	+ 4 59.8	1.997	2.996	0.6	19.9
10 18	0 39.63	+ 4 48.4	1.284	2.264	6.0	20.2	10 18	0 41.56	+ 4 11.4	2.034	3.011	4.5	20.2
10 28	0 32.45	+ 4 6.0	1.345	2.281	10.9	20.5	10 28	0 35.35	+ 3 29.7	2.098	3.026	8.1	20.5
11 7	0 27.79	+ 3 38.5	1.429	2.299	15.0	20.8	11 7	0 30.77	+ 2 58.6	2.187	3.041	11.2	20.7
<b>108069</b>	2001 FB <sub>167</sub>	10	6.6 76°78	6°3/11.9 18			<b>386819</b>	2010 GR <sub>29</sub>	10	6.6 186°20	3°1/ 3.1 18		
8 29	1 22.15	+21 40.6	1.501	2.264	20.7	19.8	8 29	1 14.09	- 0 26.2	2.164	2.995	13.0	21.2
9 8	1 17.16	+22 19.2	1.443	2.290	17.3	19.6	9 8	1 10.02	- 1 31.4	2.086	2.994	10.0	21.0
9 18	1 9.25	+22 32.9	1.402	2.315	13.4	19.4	9 18	1 4.06	- 2 44.4	2.031	2.994	6.7	20.8
9 28	0 59.21	+22 19.2	1.383	2.340	9.5	19.3	9 28	0 56.72	- 3 59.7	2.004	2.993	3.8	20.6
10 8	0 48.30	+21 40.2	1.388	2.365	6.6	19.2	10 8	0 48.73	- 5 10.7	2.005	2.991	3.7	20.6
10 18	0 37.91	+20 41.5	1.419	2.389	7.0	19.3	10 18	0 40.92	- 6 11.0	2.035	2.989	6.6	20.8
10 28	0 29.32	+19 32.7	1.476	2.413	10.0	19.5	10 28	0 34.10	- 6 55.8	2.092	2.987	9.9	21.0
11 7	0 23.39	+18 24.0	1.557	2.437	13.4	19.8	11 7	0 28.90	- 7 22.3	2.173	2.984	12.8	21.2
<b>451177</b>	2009 SX <sub>277</sub>	10	6.6 32°48	1°7/ 4.8 18			<b>213482</b>	2002 FY <sub>4</sub>	10	6.6 85°13	0°2/ 6.6 18		
8 29	1 10.25	+ 4 9.4	2.043	2.874	13.6	21.4	8 29	1 35.03	+ 1 55.4	1.417	2.229	19.5	19.5
9 8	1 7.12	+ 3 16.8	1.970	2.878	10.5	21.2	9 8	1 27.21	+ 2 49.1	1.353	2.246	15.3	19.3
9 18	1 2.12	+ 2 13.4	1.920	2.884	6.9	21.0	9 18	1 16.07	+ 3 37.3	1.308	2.264	10.4	19.0
9 28	0 55.78	+ 1 3.8	1.896	2.889	3.2	20.8	9 28	1 2.46	+ 4 20.7	1.289	2.281	4.9	18.8
10 8	0 48.84	- 0 5.7	1.899	2.895	2.1	20.7	10 8	0 47.84	+ 5 0.7	1.299	2.297	0.8	18.5
10 18	0 42.11	- 1 8.7	1.931	2.901	5.6	21.0	10 18	0 33.83	+ 5 39.1	1.337	2.314	6.4	18.9
10 28	0 36.38	- 1 59.6	1.990	2.907	9.1	21.2	10 28	0 21.97	+ 6 18.4	1.403	2.330	11.3	19.3
11 7	0 32.27	- 2 34.7	2.073	2.913	12.3	21.4	11 7	0 13.20	+ 7 1.3	1.493	2.346	15.5	19.6
<b>259664</b>	2003 WH <sub>138</sub>	10	6.6 334°62	8°1/13.3 18			<b>383489</b>	2007 BH <sub>43</sub>	10	6.6 243°22	2°2/ 8.5 18		
8 29	1 11.62	+24 44.7	1.313	2.092	22.4	20.1	8 29	1 16.91	+13 9.5	1.793	2.589	16.6	22.4
9 8	1 9.81	+25 20.3	1.232	2.084	19.3	19.8	9 8	1 12.91	+13 7.5	1.699	2.579	13.5	22.2
9 18	1 4.90	+25 25.4	1.165	2.077	15.6	19.6	9 18	1 6.44	+12 48.1	1.624	2.568	9.7	21.9
9 28	0 57.43	+24 55.4	1.117	2.070	11.7	19.3	9 28	0 58.01	+12 12.0	1.573	2.557	5.5	21.7
10 8	0 48.57	+23 50.4	1.091	2.064	8.6	19.2	10 8	0 48.51	+11 22.5	1.549	2.545	2.2	21.4
10 18	0 39.78	+22 16.0	1.087	2.059	8.5	19.1	10 18	0 39.05	+10 25.1	1.553	2.533	5.1	21.6
10 28	0 32.64	+20 24.3	1.108	2.054	11.5	19.3	10 28	0 30.79	+ 9 27.5	1.583	2.521	9.4	21.8
11 7	0 28.30	+18 30.5	1.150	2.050	15.5	19.5	11 7	0 24.62	+ 8 37.1	1.638	2.508	13.4	22.0
<b>405844</b>	2006 BM <sub>229</sub>	10	6.6 319°77	3°6/ 3.3 17			<b>514186</b>	2015 MQ <sub>79</sub>	10	6.6 11°34	3°0/ 3.8 18		
8 29	1 11.28	- 1 31.5	1.838	2.686	14.2	21.2	8 29	1 11.94	+ 1 29.2	1.680	2.525	15.4	21.3
9 8	1 8.33	- 2 16.9	1.750	2.667	11.1	20.9	9 8	1 8.87	+ 0 29.4	1.609	2.526	11.9	21.1
9 18	1 3.22	- 3 10.2	1.683	2.649	7.5	20.7	9 18	1 3.55	- 0 41.5	1.561	2.527	7.9	20.8
9 28	0 56.43	- 4 5.7	1.641	2.631	4.3	20.5	9 28	0 56.55	- 1 57.1	1.536	2.529	4.1	20.6
10 8	0 48.75	- 4 56.7	1.626	2.614	4.1	20.4	10 8	0 48.77	- 3 9.3	1.539	2.530	3.6	20.6
10 18	0 41.12	- 5 36.6	1.638	2.598	7.5	20.6	10 18	0 41.23	- 4 10.4	1.568	2.532	7.2	20.8
10 28	0 34.55	- 5 59.9	1.675	2.581	11.2	20.8	10 28	0 34.93	- 4 54.0	1.623	2.534	11.2	21.1
11 7	0 29.82	- 6 4.0	1.735	2.566	14.7	21.0	11 7	0 30.61	- 5 16.9	1.700	2.537	14.7	21.3
<b>275368</b>	2011 AO <sub>46</sub>	10	6.6 266°82	2°5/ 9.5 17			<b>437821</b>	2015 DZ <sub>160</sub>	10	6.6 245°02	3°5/ 3.7 18		
8 29	1 12.84	+15 10.8	2.511	3.283	13.0	21.8	8 29	1 16.61	+ 0 2.4	1.628	2.470	16.0	21.8
9 8	1 8.99	+15 13.4	2.408	3.271	10.6	21.7	9 8	1 12.75	- 0 49.5	1.547	2.461	12.5	21.5
9 18	1 3.38	+15 2.6	2.327	3.259	7.8	21.5	9 18	1 6.34	- 1 51.9	1.486	2.451	8.4	21.3
9 28	0 56.42	+14 38.5	2.272	3.247	4.8	21.2	9 28	0 57.95	- 2 58.5	1.451	2.442	4.5	21.0
10 8	0 48.75	+14 3.3	2.244	3.235	2.6	21.1	10 8	0 48.55	- 4 1.2	1.441	2.431	4.1	21.0
10 18	0 41.11	+13 20.5	2.245	3.223	4.0	21.2	10 18	0 39.28	- 4 52.1	1.459	2.421	7.9	21.2
10 28	0 34.26	+12 34.9	2.274	3.211	7.0	21.3	10 28	0 31.34	- 5 24.8	1.502	2.410	12.1	21.4
11 7	0 28.86	+11 51.6	2.331	3.199	10.0	21.5	11 7	0 25.59	- 5 36.1	1.567	2.399	15.9	21.6
<b>509571</b>	2008 CF <sub>87</sub>	10	6.6 246°24	3°8/ 3.5 17			<b>181290</b>	2006 OU <sub>20</sub>	10	6.6 303°14	0°4/ 6.2 18		
8 29	1 16.57	- 0 30.6	1.591	2.435	16.2	22.0	8 29	1 12.40	+ 6 55.6				

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>148227</b>	2000 <i>DP</i> <sub>99</sub>	10	6.6 233°85	1°5/ 4.2 18			<b>519482</b>	2012 <i>DD</i> <sub>78</sub>	10	6.6 186°41	2°3/10.0 18		
8 29	1 9.19	+ 0 12.1	3.573	4.389	8.6	20.6	8 29	1 12.27	+17 12.0	3.098	3.848	11.2	22.0
9 8	1 5.50	- 0 17.4	3.480	4.380	6.6	20.4	9 8	1 8.12	+16 57.8	3.000	3.847	9.2	21.8
9 18	1 0.68	- 0 51.0	3.412	4.372	4.4	20.3	9 18	1 2.57	+16 30.7	2.924	3.846	6.8	21.7
9 28	0 55.05	- 1 26.2	3.372	4.362	2.2	20.1	9 28	0 55.99	+15 51.5	2.874	3.845	4.3	21.5
10 8	0 49.02	- 2 0.1	3.362	4.353	1.8	20.1	10 8	0 48.92	+15 2.4	2.853	3.843	2.4	21.4
10 18	0 43.06	- 2 29.8	3.382	4.344	3.9	20.2	10 18	0 41.93	+14 6.6	2.863	3.840	3.3	21.4
10 28	0 37.62	- 2 52.6	3.431	4.334	6.2	20.3	10 28	0 35.62	+13 8.6	2.903	3.837	5.8	21.6
11 7	0 33.11	- 3 6.7	3.507	4.324	8.3	20.5	11 7	0 30.50	+12 12.9	2.971	3.834	8.3	21.8
<b>512667</b>	2016 <i>TE</i> <sub>76</sub>	10	6.6 356°00	3°4/ 9.4 18			<b>348107</b>	2003 <i>YH</i> <sub>64</sub>	10	6.7 285°01	3°7/10.0 17		
8 29	1 12.62	+15 6.9	1.481	2.291	18.8	20.7	8 29	1 14.89	+17 16.0	2.007	2.780	15.8	21.2
9 8	1 9.95	+15 15.2	1.402	2.289	15.4	20.5	9 8	1 11.33	+17 24.1	1.891	2.752	13.2	20.9
9 18	1 4.60	+15 2.1	1.343	2.287	11.3	20.2	9 18	1 5.43	+17 14.1	1.794	2.723	10.0	20.7
9 28	0 57.17	+14 28.0	1.304	2.285	6.8	20.0	9 28	0 57.62	+16 45.0	1.722	2.694	6.5	20.4
10 8	0 48.68	+13 36.3	1.291	2.284	3.4	19.8	10 8	0 48.63	+15 58.3	1.675	2.664	3.8	20.2
10 18	0 40.36	+12 33.8	1.302	2.284	5.6	19.9	10 18	0 39.47	+14 58.1	1.656	2.634	5.2	20.2
10 28	0 33.47	+11 29.6	1.339	2.285	10.0	20.2	10 28	0 31.25	+13 51.2	1.665	2.604	8.9	20.4
11 7	0 28.92	+10 32.5	1.400	2.286	14.2	20.4	11 7	0 24.90	+12 45.7	1.699	2.574	12.8	20.6
<b>480043</b>	2015 <i>BQ</i> <sub>425</sub>	10	6.6 76°68	0°9/ 5.9 16			<b>267610</b>	2002 <i>RU</i> <sub>148</sub>	10	6.7 327°26	0°6/ 6.9 18		
8 29	1 17.62	+ 6 30.7	1.489	2.320	17.8	21.4	8 29	1 14.32	+ 6 15.0	1.160	2.015	20.3	19.6
9 8	1 13.36	+ 5 52.7	1.434	2.341	13.8	21.2	9 8	1 12.22	+ 6 38.5	1.074	1.993	16.3	19.2
9 18	1 6.54	+ 4 59.8	1.400	2.361	9.2	21.0	9 18	1 6.79	+ 6 48.4	1.006	1.972	11.4	18.9
9 28	0 57.92	+ 3 57.2	1.389	2.382	4.2	20.8	9 28	0 58.49	+ 6 46.1	0.958	1.951	5.6	18.5
10 8	0 48.59	+ 2 52.3	1.404	2.402	1.4	20.6	10 8	0 48.49	+ 6 35.4	0.933	1.932	0.9	18.1
10 18	0 39.76	+ 1 53.1	1.446	2.422	6.1	21.0	10 18	0 38.36	+ 6 22.3	0.932	1.915	7.0	18.5
10 28	0 32.53	+ 1 6.6	1.515	2.443	10.6	21.3	10 28	0 29.86	+ 6 14.3	0.953	1.898	13.1	18.8
11 7	0 27.62	+ 0 37.2	1.606	2.462	14.4	21.6	11 7	0 24.35	+ 6 18.1	0.993	1.883	18.4	19.0
<b>433840</b>	2015 <i>BU</i> <sub>250</sub>	10	6.6 120°83	1°5/ 5.3 17			<b>424333</b>	2007 <i>UE</i> <sub>99</sub>	10	6.7 8°01	0°0/ 6.5 18		
8 29	1 18.37	+ 4 20.4	1.710	2.535	16.1	22.0	8 29	1 10.40	+ 7 22.1	0.939	1.812	22.4	20.1
9 8	1 13.73	+ 3 41.6	1.644	2.548	12.5	21.8	9 8	1 9.26	+ 7 14.3	0.884	1.813	17.7	19.8
9 18	1 6.72	+ 2 50.9	1.600	2.561	8.3	21.5	9 18	1 4.64	+ 6 45.2	0.844	1.814	12.1	19.6
9 28	0 58.01	+ 1 53.1	1.580	2.573	3.8	21.3	9 28	0 57.32	+ 5 59.1	0.823	1.818	5.7	19.2
10 8	0 48.58	+ 0 55.0	1.588	2.585	2.0	21.2	10 8	0 48.71	+ 5 4.8	0.824	1.823	0.9	18.9
10 18	0 39.50	+ 0 3.4	1.625	2.596	6.1	21.5	10 18	0 40.52	+ 4 12.8	0.847	1.830	7.5	19.4
10 28	0 31.81	- 0 35.6	1.688	2.607	10.3	21.8	10 28	0 34.38	+ 3 33.7	0.891	1.838	13.4	19.7
11 7	0 26.25	- 0 58.4	1.774	2.618	13.9	22.0	11 7	0 31.33	+ 3 14.4	0.953	1.848	18.5	20.1
<b>460107</b>	2014 <i>PG</i> <sub>13</sub>	10	6.6 345°77	4°7/ 1.4 16			<b>26063</b>	2634 <i>T</i> <sub>-3</sub>	10	6.7 173°31	0°8/ 7.5 18		
8 29	1 8.44	- 3 13.5	1.876	2.730	13.7	20.9	8 29	1 14.72	+10 38.2	2.061	2.861	14.6	19.9
9 8	1 5.97	- 4 36.9	1.803	2.724	10.6	20.7	9 8	1 10.69	+10 15.2	1.977	2.863	11.6	19.7
9 18	1 1.51	- 6 7.8	1.753	2.719	7.3	20.5	9 18	1 4.63	+ 9 37.6	1.914	2.864	8.0	19.5
9 28	0 55.58	- 7 38.6	1.729	2.714	4.9	20.4	9 28	0 57.06	+ 8 47.7	1.877	2.865	4.1	19.2
10 8	0 48.95	- 9 0.9	1.732	2.710	5.5	20.4	10 8	0 48.77	+ 7 50.1	1.868	2.866	0.9	19.0
10 18	0 42.48	- 10 7.3	1.762	2.706	8.4	20.6	10 18	0 40.64	+ 6 50.3	1.887	2.867	4.5	19.3
10 28	0 37.05	- 10 52.3	1.817	2.703	11.6	20.8	10 28	0 33.57	+ 5 54.7	1.934	2.867	8.4	19.5
11 7	0 33.32	- 11 13.8	1.893	2.700	14.6	21.0	11 7	0 28.25	+ 5 8.8	2.007	2.867	11.8	19.7
<b>254079</b>	2004 <i>HT</i> <sub>78</sub>	10	6.6 327°67	2°0/ 3.2 18			<b>513778</b>	2013 <i>AC</i> <sub>9</sub>	10	6.7 206°72	7°4/28.8 18		
8 29	1 7.32	- 3 36.3	4.116	4.939	7.4	20.2	8 29	1 16.18	-14 42.9	2.085	2.925	13.0	21.6
9 8	1 3.88	- 3 59.1	4.033	4.937	5.7	20.1	9 8	1 11.75	-15 54.7	2.021	2.923	10.6	21.4
9 18	0 59.51	- 4 23.7	3.975	4.934	3.9	19.9	9 18	1 5.29	-17 3.1	1.980	2.920	8.5	21.3
9 28	0 54.47	- 4 47.8	3.945	4.932	2.3	19.8	9 28	0 57.34	-18 0.6	1.965	2.917	7.4	21.2
10 8	0 49.14	- 5 8.8	3.945	4.930	2.2	19.8	10 8	0 48.73	-18 40.3	1.976	2.914	8.2	21.3
10 18	0 43.87	- 5 24.7	3.975	4.927	3.8	19.9	10 18	0 40.37	-18 57.5	2.013	2.911	10.2	21.4
10 28	0 39.07	- 5 33.7	4.034	4.925	5.7	20.0	10 28	0 33.13	-18 50.5	2.075	2.908	12.6	21.6
11 7	0 35.06	- 5 34.4	4.120	4.923	7.4	20.2	11 7	0 27.68	-18 20.2	2.157	2.904	14.9	21.7
<b>268114</b>	2004 <i>TM</i> <sub>8</sub>	10	6.6 136°77	3°2/ 5.6 17			<b>370643</b>	2004 <i>BJ</i> <sub>26</sub>	10	6.7 327°16	1°7/ 5.5 18		
8 29	1 37.73	- 4 4.0	1.139	1.973	21.9	19.9	8 29	1 9.72	+ 5 9.5	1.134	2.001	19.8	20.7
9 8	1 30.36	- 3 23.9	1.070	1.977	17.4	19.6	9 8	1 8.50	+ 4 39.8	1.054	1.981	15.7	20.4
9 18	1 18.82	- 2 43.2	1.020	1.981	11.9	19.4	9 18	1 4.15	+ 3 50.9	0.991	1.961	10.7	20.0
9 28	1 4.01	- 1 57.9	0.993	1.984	6.0	19.0	9 28	0 57.18	+ 2 47.6	0.948	1.943	5.0	19.6
10 8	0 47.64	- 1 4.5	0.992	1.988	3.6	18.9	10 8	0 48.73	+ 1 38.8	0.928	1.926	2.3	19.4
10 18	0 31.84	- 0 1.7	1.018	1.991	8.8	19.2	10 18	0 40.28	+ 0 35.3	0.932	1.910	8.1	19.7
10 28	0 18.64	+ 1 10.5	1.070	1.993	14.4	19.6	10 28	0 33.45	- 0 11.8	0.957	1.895	13.9	20.0
11 7	0 9.26	+ 2 31.2	1.144	1.996	19.3	19.9	11 7	0 29.43	- 0 35.4	1.002	1.882	19.1	20.2
<b>431154</b>	2006 <i>QV</i> <sub>165</sub>	10	6.6 46°40	4°6/10.1 17			<b>436445</b>	2011 <i>CG</i> <sub>48</sub>	10	6.7 261°15	1°8/ 7.9 18		
8 29	1 17.85	+17 5.5	1.109	1.928	23.3	20.9	8 29	1 18.88	+10 57.2	1.697	2.502	17.0	22.2
9 8	1 14.42	+17 23.2	1.064	1.952	19.0	20.7	9 8	1 14.72	+11 4.7	1.599	2.485	13.8	22.0
9 18	1 7.67	+17 12.6	1.035	1.978	14.0	20.5	9 18	1 7.86	+10 56.7	1.520	2.468	9.8	21.7
9 28	0 58.54	+16 34.2	1.026	2.004	8.7	20.3	9 28	0 58.80	+10 33.8	1.464	2.451	5.3	21.4
10 8	0 48.52	+15 33.5	1.039	2.031	4.8	20.1	10 8	0 48.48	+ 9 58.8	1.435	2.433	1.8	21.1
10 18	0 39.22	+14 20.0	1.076	2.058	6.6	20.3	10 18	0 38.09	+ 9 17.1	1.434	2.414	5.4	21.3
10 28	0 32.04	+13 5.7	1.137	2.085	11.1	20.7	10 28	0 28.93	+ 8 35.8	1.459	2.396	10.2	21.6
11 7	0 27.85	+12 1.4	1.220	2.113	15.4	21.0	11 7	0 22.02	+ 8 1.8	1.508	2.377	14.5	21.8
<b>109906</b>	2001 <i>SC</i> <sub>22</sub>	10	6.6 246°53	0°6/ 6.1 18			<b>315053</b>	2007 <i>DZ</i>	10	6.7 73°72	6°8/14.2 18		
8 29	1 14.06	+ 7 54.7											

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>405588</b>	2005 <i>SM</i> <sub>29</sub>	10	6.7 247°32	1.5°/ 8.1	18		<b>488134</b>	2015 <i>VA</i> <sub>124</sub>	10	6.7 18°06	9.3°/19.2	17	
8 29	1 16.68	+10 27.0	2.224	3.016	13.9	21.3	8 29	1 13.23	+36 43.8	2.272	2.914	17.4	20.5
9 8	1 12.15	+10 38.1	2.131	3.011	11.1	21.1	9 8	1 9.92	+37 24.6	2.183	2.915	15.8	20.4
9 18	1 5.62	+10 37.9	2.060	3.005	7.9	20.9	9 18	1 4.34	+37 40.7	2.108	2.917	13.8	20.2
9 28	0 57.55	+10 27.1	2.015	3.000	4.3	20.7	9 28	0 57.03	+37 28.2	2.053	2.920	11.8	20.1
10 8	0 48.70	+10 8.2	1.998	2.995	1.5	20.5	10 8	0 48.82	+36 45.9	2.019	2.922	10.1	20.0
10 18	0 39.93	+9 44.7	2.010	2.989	4.2	20.7	10 18	0 40.74	+35 35.7	2.010	2.925	9.3	20.0
10 28	0 32.12	+9 21.2	2.050	2.984	7.9	20.9	10 28	0 33.81	+34 3.3	2.026	2.927	9.8	20.0
11 7	0 26.00	+9 2.1	2.116	2.978	11.2	21.1	11 7	0 28.82	+32 17.6	2.067	2.930	11.3	20.1
<b>169613</b>	2002 <i>GY</i> <sub>113</sub>	10	6.7 151°45	4.4°/ 3.5	18		<b>75553</b>	1999 <i>YQ</i> <sub>6</sub>	10	6.7 319°12	4.5°/ 9.6	18	
8 29	1 20.80	-3 7.7	1.501	2.345	17.0	19.9	8 29	1 18.59	+14 38.0	1.625	2.420	18.1	18.6
9 8	1 16.06	-3 46.4	1.434	2.348	13.3	19.7	9 8	1 14.69	+15 31.5	1.532	2.406	15.0	18.4
9 18	1 8.55	-4 31.1	1.387	2.351	9.1	19.5	9 18	1 7.96	+16 10.2	1.458	2.393	11.3	18.1
9 28	0 58.99	-5 14.9	1.365	2.354	5.3	19.3	9 28	0 58.92	+16 31.8	1.406	2.381	7.3	17.9
10 8	0 48.49	-5 50.1	1.369	2.356	5.0	19.3	10 8	0 48.54	+16 36.3	1.380	2.368	4.6	17.7
10 18	0 38.34	-6 10.3	1.400	2.358	8.6	19.5	10 18	0 38.07	+16 26.2	1.380	2.357	6.2	17.7
10 28	0 29.79	-6 11.1	1.455	2.360	12.7	19.7	10 28	0 28.91	+16 7.1	1.405	2.346	10.2	17.9
11 7	0 23.71	-5 51.5	1.532	2.362	16.4	20.0	11 7	0 22.13	+15 46.3	1.455	2.335	14.2	18.2
<b>141358</b>	2002 <i>AZ</i> <sub>32</sub>	10	6.7 115°91	3.3°/ 2.8	18		<b>479553</b>	2014 <i>BY</i> <sub>63</sub>	10	6.7 212°65	1.4°/ 5.5	18	
8 29	1 14.08	-3 19.0	2.420	3.250	11.8	20.2	8 29	1 17.99	+3 19.2	1.777	2.603	15.5	21.0
9 8	1 9.70	-4 8.3	2.356	3.263	9.1	20.0	9 8	1 13.58	+3 0.3	1.697	2.601	12.1	20.8
9 18	1 3.68	-5 1.2	2.316	3.276	6.2	19.9	9 18	1 6.79	+2 31.5	1.638	2.599	8.1	20.5
9 28	0 56.51	-5 53.0	2.303	3.289	3.7	19.7	9 28	0 58.18	+1 56.4	1.604	2.596	3.8	20.3
10 8	0 48.88	-6 38.6	2.319	3.301	3.8	19.8	10 8	0 48.69	+1 20.4	1.597	2.594	1.8	20.1
10 18	0 41.49	-7 13.6	2.364	3.314	6.2	19.9	10 18	0 39.38	+0 49.2	1.617	2.591	6.0	20.4
10 28	0 35.04	-7 34.8	2.437	3.326	8.9	20.1	10 28	0 31.32	+0 28.1	1.665	2.588	10.2	20.6
11 7	0 30.06	-7 40.7	2.533	3.337	11.4	20.3	11 7	0 25.34	+0 20.7	1.737	2.584	13.9	20.9
<b>257747</b>	2000 <i>AZ</i> <sub>218</sub>	10	6.7 252°03	2.0°/ 4.3	18		<b>365648</b>	2010 <i>UU</i> <sub>107</sub>	10	6.7 323°06	0.4°/ 6.3	17	
8 29	1 12.30	+0 59.2	2.497	3.320	11.6	21.2	8 29	1 11.41	+6 43.6	1.856	2.683	14.9	21.5
9 8	1 8.47	+0 21.1	2.406	3.310	9.0	21.0	9 8	1 8.46	+6 19.9	1.766	2.670	11.8	21.3
9 18	1 2.98	-0 23.9	2.338	3.300	6.0	20.8	9 18	1 3.36	+5 43.1	1.697	2.658	8.0	21.0
9 28	0 56.26	-1 12.2	2.298	3.289	3.0	20.6	9 28	0 56.59	+4 56.2	1.653	2.646	3.7	20.8
10 8	0 48.92	-1 59.0	2.286	3.278	2.4	20.5	10 8	0 48.94	+4 4.4	1.636	2.634	0.9	20.5
10 18	0 41.66	-2 39.8	2.303	3.267	5.3	20.7	10 18	0 41.37	+3 13.8	1.645	2.623	5.3	20.8
10 28	0 35.20	-3 10.4	2.349	3.256	8.4	20.9	10 28	0 34.84	+2 31.0	1.682	2.613	9.5	21.0
11 7	0 30.12	-3 28.1	2.419	3.245	11.2	21.1	11 7	0 30.15	+2 0.9	1.742	2.602	13.3	21.3
<b>298164</b>	2002 <i>TA</i> <sub>102</sub>	10	6.7 14°73	1.2°/ 7.8	18		<b>76544</b>	2000 <i>GZ</i> <sub>82</sub>	10	6.7 219°48	6.6°/30.0	18	
8 29	1 12.18	+11 51.8	1.760	2.572	16.2	20.9	8 29	1 15.76	-11 19.5	2.023	2.866	13.3	19.6
9 8	1 9.08	+11 26.3	1.681	2.573	13.0	20.6	9 8	1 11.51	-12 26.7	1.955	2.863	10.6	19.4
9 18	1 3.73	+10 42.8	1.622	2.574	9.1	20.4	9 18	1 5.19	-13 33.3	1.910	2.860	8.1	19.3
9 28	0 56.70	+9 43.9	1.588	2.576	4.7	20.2	9 28	0 57.36	-14 31.8	1.890	2.856	6.6	19.2
10 8	0 48.86	+8 34.9	1.579	2.577	1.2	19.9	10 8	0 48.84	-15 15.2	1.898	2.852	7.3	19.2
10 18	0 41.21	+7 22.9	1.598	2.579	4.9	20.2	10 18	0 40.53	-15 38.6	1.931	2.848	9.5	19.3
10 28	0 34.76	+6 15.9	1.644	2.582	9.1	20.5	10 28	0 33.35	-15 39.1	1.990	2.844	12.2	19.5
11 7	0 30.26	+5 20.4	1.714	2.584	12.9	20.7	11 7	0 27.97	-15 17.2	2.070	2.840	14.8	19.7
<b>120799</b>	1998 <i>FA</i> <sub>64</sub>	10	6.7 188°03	1.5°/ 5.0	18		<b>76932</b>	2001 <i>AN</i> <sub>42</sub>	10	6.7 191°45	2.4°/ 8.7	18	
8 29	1 14.53	+4 48.9	2.195	3.011	13.3	20.1	8 29	1 20.36	+13 20.6	1.916	2.699	16.1	20.3
9 8	1 10.39	+3 53.8	2.110	3.010	10.3	19.9	9 8	1 15.40	+13 24.6	1.826	2.698	13.1	20.1
9 18	1 4.36	+2 47.2	2.049	3.009	6.9	19.7	9 18	1 8.03	+13 12.5	1.757	2.696	9.4	19.9
9 28	0 56.93	+1 33.6	2.015	3.008	3.2	19.4	9 28	0 58.79	+12 45.0	1.712	2.694	5.4	19.7
10 8	0 48.84	+0 18.9	2.010	3.005	1.9	19.3	10 8	0 48.61	+12 4.8	1.695	2.690	2.4	19.5
10 18	0 40.90	-0 50.6	2.034	3.003	5.4	19.6	10 18	0 38.53	+11 17.0	1.707	2.686	4.9	19.6
10 28	0 33.93	-1 48.9	2.086	2.999	9.0	19.8	10 28	0 29.67	+10 28.1	1.746	2.682	8.9	19.9
11 7	0 28.59	-2 32.0	2.163	2.995	12.1	20.0	11 7	0 22.88	+9 44.8	1.811	2.676	12.6	20.1
<b>273447</b>	2006 <i>WN</i> <sub>198</sub>	10	6.7 149°04	1.4°/ 5.5	18		<b>476706</b>	2008 <i>TT</i> <sub>154</sub>	10	6.7 74°75	5.6°/12.3	16	
8 29	1 19.19	+3 59.8	1.795	2.617	15.6	21.2	8 29	1 15.13	+23 5.1	1.685	2.442	18.9	21.1
9 8	1 14.37	+3 32.7	1.722	2.624	12.1	21.0	9 8	1 11.56	+23 9.1	1.613	2.457	15.9	21.0
9 18	1 7.20	+2 54.7	1.670	2.630	8.1	20.8	9 18	1 5.49	+22 47.5	1.560	2.471	12.4	20.8
9 28	0 58.31	+2 10.1	1.644	2.637	3.8	20.5	9 28	0 57.57	+21 59.3	1.528	2.485	8.7	20.6
10 8	0 48.63	+1 24.5	1.645	2.642	1.8	20.4	10 8	0 48.81	+20 47.5	1.520	2.499	5.9	20.5
10 18	0 39.23	+0 44.0	1.675	2.647	5.9	20.7	10 18	0 40.38	+19 18.7	1.540	2.513	6.2	20.5
10 28	0 31.15	+0 14.1	1.731	2.652	10.0	21.0	10 28	0 33.38	+17 42.6	1.586	2.527	9.1	20.7
11 7	0 25.14	-0 1.5	1.812	2.656	13.6	21.2	11 7	0 28.61	+16 9.6	1.656	2.541	12.5	21.0
<b>224045</b>	2005 <i>MF</i> <sub>20</sub>	10	6.7 59°92	2.4°/ 4.8	17		<b>81214</b>	2000 <i>FL</i> <sub>18</sub>	10	6.7 279°58	4.9°/ 1.1	18	
8 29	1 17.89	+3 24.2	1.291	2.139	19.0	20.6	8 29	1 11.15	-3 20.8	1.882	2.731	13.8	18.9
9 8	1 13.82	+2 34.5	1.247	2.163	14.6	20.4	9 8	1 8.12	-4 54.6	1.807	2.725	10.7	18.7
9 18	1 6.95	+1 31.8	1.222	2.189	9.6	20.2	9 18	1 3.03	-6 36.5	1.755	2.719	7.5	18.5
9 28	0 58.15	+0 23.3	1.220	2.214	4.5	20.0	9 28	0 56.39	-8 18.6	1.729	2.712	5.1	18.4
10 8	0 48.67	-0 41.8	1.244	2.239	3.0	19.9	10 8	0 48.99	-9 51.8	1.731	2.706	5.8	18.4
10 18	0 39.85	-1 35.1	1.293	2.265	7.4	20.3	10 18	0 41.75	-11 7.9	1.760	2.700	8.7	18.6
10 28	0 32.83	-2 10.2	1.367	2.290	12.0	20.6	10 28	0 35.57	-12 1.3	1.814	2.694	12.0	18.8
11 7	0 28.36	-2 24.3	1.463	2.315	15.8	20.9	11 7	0 31.17	-12 29.5	1.890	2.687	15.0	19.0
<b>215527</b>	2002 <i>VT</i> <sub>89</sub>	10	6.7 307°24	3.3°/ 9.9	18		<b>475368</b>	2006 <i>DG</i> <sub>116</sub>	10	6.7 137°37	0.0°/ 6.		



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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>99573</b>	2002 <i>FC</i> <sub>22</sub>	10	6.7 256°47	6°0/ 3.0 18			<b>159442</b>	1999 <i>XY</i> <sub>152</sub>	10	6.7 278°72	2°3/ 4.0 18		
8 29	1 28.98	-11 27.4	1.848	2.670	15.2	20.0	8 29	1 11.61	+ 1 19.1	2.338	3.165	12.2	20.4
9 8	1 22.12	-11 35.6	1.764	2.659	12.2	19.8	9 8	1 8.16	+ 0 30.3	2.239	3.146	9.5	20.2
9 18	1 12.55	-11 40.0	1.701	2.649	9.0	19.6	9 18	1 2.93	- 0 27.2	2.164	3.126	6.4	19.9
9 28	1 0.93	-11 34.2	1.665	2.639	6.4	19.4	9 28	0 56.34	- 1 29.3	2.115	3.107	3.2	19.7
10 8	0 48.30	-11 13.0	1.656	2.628	6.4	19.4	10 8	0 49.02	- 2 30.4	2.095	3.087	2.7	19.6
10 18	0 35.92	-10 33.3	1.677	2.617	9.1	19.5	10 18	0 41.72	- 3 25.0	2.104	3.067	5.8	19.8
10 28	0 25.00	- 9 34.5	1.726	2.606	12.5	19.7	10 28	0 35.23	- 4 7.9	2.140	3.047	9.1	20.0
11 7	0 16.45	- 8 18.8	1.798	2.594	15.7	19.9	11 7	0 30.20	- 4 35.7	2.201	3.026	12.2	20.1
<b>265596</b>	2005 <i>RE</i> <sub>17</sub>	10	6.7 50°29	2°0/ 5.2 17			<b>300506</b>	2007 <i>TH</i> <sub>173</sub>	10	6.7 307°09	0°2/ 6.9 18		
8 29	1 17.31	+ 3 22.0	1.286	2.135	19.0	20.2	8 29	1 12.25	+ 9 34.9	1.774	2.593	15.8	21.0
9 8	1 13.55	+ 2 51.4	1.235	2.152	14.7	19.9	9 8	1 9.18	+ 9 0.2	1.690	2.588	12.5	20.7
9 18	1 6.91	+ 2 8.0	1.202	2.169	9.8	19.7	9 18	1 3.87	+ 8 8.7	1.626	2.582	8.6	20.5
9 28	0 58.23	+ 1 17.8	1.193	2.186	4.5	19.5	9 28	0 56.84	+ 7 3.6	1.586	2.577	4.2	20.2
10 8	0 48.73	+ 0 28.7	1.208	2.204	2.5	19.4	10 8	0 48.95	+ 5 50.7	1.573	2.572	0.6	19.9
10 18	0 39.79	- 0 11.3	1.249	2.223	7.2	19.7	10 18	0 41.19	+ 4 37.5	1.588	2.567	5.2	20.3
10 28	0 32.62	- 0 36.0	1.314	2.241	11.9	20.1	10 28	0 34.58	+ 3 31.7	1.629	2.562	9.6	20.5
11 7	0 28.02	- 0 42.2	1.400	2.260	15.9	20.4	11 7	0 29.91	+ 2 39.9	1.694	2.558	13.4	20.8
<b>435106</b>	2007 <i>DQ</i> <sub>35</sub>	10	6.7 186°71	0°1/ 6.6 17			<b>4138</b>	Kalchas	10	6.7 0°20	0°1/ 6.9 18		
8 29	1 17.04	+ 7 51.2	2.060	2.865	14.4	22.6	8 29	1 5.87	+ 7 49.9	4.144	4.937	7.9	17.2
9 8	1 12.52	+ 7 22.0	1.974	2.865	11.3	22.4	9 8	1 2.84	+ 7 29.9	4.053	4.937	6.2	17.1
9 18	1 5.91	+ 6 39.9	1.910	2.865	7.7	22.1	9 18	0 58.89	+ 7 3.6	3.986	4.937	4.2	16.9
9 28	0 57.74	+ 5 47.8	1.872	2.863	3.7	21.9	9 28	0 54.28	+ 6 32.8	3.947	4.937	2.0	16.8
10 8	0 48.80	+ 4 50.6	1.863	2.861	0.6	21.6	10 8	0 49.36	+ 5 59.4	3.938	4.937	0.3	16.6
10 18	0 40.01	+ 3 54.1	1.882	2.859	4.9	22.0	10 18	0 44.51	+ 5 25.9	3.960	4.937	2.5	16.8
10 28	0 32.31	+ 3 4.4	1.930	2.856	8.8	22.2	10 28	0 40.10	+ 4 54.8	4.011	4.937	4.6	17.0
11 7	0 26.40	+ 2 26.4	2.003	2.852	12.3	22.4	11 7	0 36.46	+ 4 28.3	4.090	4.938	6.5	17.1
<b>182910</b>	2002 <i>EP</i> <sub>99</sub>	10	6.7 111°15	4°2/ 2.3 18			<b>295246</b>	2008 <i>GX</i> <sub>33</sub>	10	6.7 94°55	0°2/ 6.4 18		
8 29	1 15.19	- 6 18.3	2.281	3.115	12.2	20.0	8 29	1 11.53	+ 8 44.0	2.163	2.973	13.6	21.2
9 8	1 10.71	- 7 1.8	2.215	3.123	9.5	19.8	9 8	1 8.07	+ 7 55.3	2.086	2.981	10.7	21.0
9 18	1 4.46	- 7 47.1	2.173	3.131	6.7	19.7	9 18	1 2.80	+ 6 53.1	2.032	2.989	7.2	20.8
9 28	0 56.96	- 8 28.9	2.158	3.139	4.5	19.5	9 28	0 56.23	+ 5 40.9	2.005	2.996	3.4	20.6
10 8	0 48.93	- 9 2.0	2.170	3.146	4.7	19.6	10 8	0 49.07	+ 4 24.5	2.005	3.004	0.7	20.4
10 18	0 41.13	- 9 22.3	2.211	3.154	7.0	19.7	10 18	0 42.12	+ 3 10.2	2.035	3.012	4.6	20.7
10 28	0 34.35	- 9 27.1	2.279	3.161	9.8	19.9	10 28	0 36.15	+ 2 4.2	2.093	3.019	8.2	21.0
11 7	0 29.14	- 9 15.7	2.370	3.168	12.3	20.1	11 7	0 31.75	+ 1 11.3	2.176	3.026	11.4	21.2
<b>238551</b>	2004 <i>VW</i> <sub>96</sub>	10	6.7 229°85	2°4/ 9.1 18			<b>460341</b>	2014 <i>RC</i> <sub>16</sub>	10	6.7 335°67	3°0/ 3.3 17		
8 29	1 14.44	+15 12.3	1.995	2.779	15.5	21.0	8 29	1 5.16	+ 3 32.7	1.652	2.507	15.2	20.0
9 8	1 10.72	+14 56.1	1.901	2.772	12.6	20.8	9 8	1 3.87	+ 2 8.1	1.563	2.485	11.8	19.8
9 18	1 4.84	+14 21.5	1.827	2.765	9.2	20.5	9 18	1 0.42	+ 0 26.3	1.495	2.465	7.9	19.5
9 28	0 57.28	+13 29.4	1.777	2.757	5.4	20.3	9 28	0 55.26	- 1 25.8	1.452	2.445	4.0	19.2
10 8	0 48.86	+12 23.6	1.754	2.749	2.4	20.1	10 8	0 49.20	- 3 18.6	1.435	2.427	3.8	19.2
10 18	0 40.52	+11 9.9	1.760	2.741	4.6	20.2	10 18	0 43.19	- 5 1.4	1.445	2.409	7.7	19.4
10 28	0 33.25	+ 9 55.9	1.794	2.732	8.5	20.4	10 28	0 38.23	- 6 24.8	1.480	2.393	12.0	19.6
11 7	0 27.81	+ 8 48.9	1.853	2.723	12.1	20.6	11 7	0 35.14	- 7 22.8	1.537	2.378	15.8	19.8
<b>106954</b>	2000 <i>YS</i> <sub>78</sub>	10	6.7 162°65	5°9/30.0 18			<b>178133</b>	2006 <i>TU</i> <sub>49</sub>	10	6.7 332°25	2°1/ 4.7 18		
8 29	1 14.35	-11 38.9	2.321	3.159	11.9	19.1	8 29	1 11.87	+ 2 56.5	1.765	2.604	15.0	20.6
9 8	1 10.10	-12 39.8	2.256	3.161	9.5	19.0	9 8	1 8.85	+ 2 12.2	1.685	2.598	11.7	20.4
9 18	1 4.08	-13 39.3	2.215	3.163	7.2	18.9	9 18	1 3.62	+ 1 16.4	1.627	2.592	7.8	20.2
9 28	0 56.79	-14 31.3	2.200	3.164	5.9	18.8	9 28	0 56.72	+ 0 14.1	1.594	2.587	3.7	19.9
10 8	0 48.95	-15 9.9	2.212	3.165	6.5	18.8	10 8	0 49.00	- 0 47.8	1.587	2.582	2.6	19.8
10 18	0 41.33	-15 31.1	2.252	3.166	8.5	19.0	10 18	0 41.42	- 1 42.3	1.607	2.577	6.5	20.1
10 28	0 34.68	-15 32.5	2.318	3.167	10.9	19.1	10 28	0 34.99	- 2 23.1	1.654	2.573	10.5	20.3
11 7	0 29.58	-15 14.3	2.405	3.168	13.2	19.3	11 7	0 30.47	- 2 46.2	1.723	2.569	14.1	20.5
<b>387958</b>	2005 <i>GX</i> <sub>63</sub>	10	6.7 158°39	2°7/ 4.0 18			<b>63411</b>	2001 <i>KK</i> <sub>41</sub>	10	6.7 205°09	4°5/11.7 18		
8 29	1 19.13	- 2 4.7	2.392	3.210	12.3	21.2	8 29	1 14.97	+21 42.1	2.279	3.019	15.0	19.4
9 8	1 13.69	- 2 29.9	2.317	3.217	9.5	21.0	9 8	1 10.93	+21 45.2	2.182	3.016	12.7	19.2
9 18	1 6.45	- 2 59.1	2.265	3.223	6.4	20.8	9 18	1 4.88	+21 29.2	2.104	3.012	9.8	19.1
9 28	0 57.90	- 3 28.3	2.240	3.229	3.5	20.6	9 28	0 57.29	+20 53.4	2.051	3.007	6.9	18.9
10 8	0 48.79	- 3 53.3	2.245	3.234	3.0	20.6	10 8	0 48.91	+19 59.6	2.024	3.002	4.7	18.7
10 18	0 39.89	- 4 10.3	2.280	3.239	5.7	20.8	10 18	0 40.61	+18 51.7	2.025	2.997	5.1	18.7
10 28	0 32.00	- 4 16.2	2.344	3.243	8.8	21.0	10 28	0 33.29	+17 36.3	2.055	2.991	7.7	18.9
11 7	0 25.71	- 4 9.5	2.432	3.247	11.5	21.2	11 7	0 27.67	+16 20.9	2.111	2.985	10.7	19.1
<b>515594</b>	2014 <i>JA</i> <sub>34</sub>	10	6.7 158°14	5°0/ 1.6 18			<b>518453</b>	2005 <i>EZ</i> <sub>333</sub>	10	6.7 32°75	0°4/ 6.9 15		
8 29	1 15.50	- 6 57.7	2.097	2.936	13.0	21.5	8 29	1 18.21	+ 7 32.0	1.304	2.141	19.5	21.0
9 8	1 11.17	- 7 56.8	2.029	2.939	10.2	21.3	9 8	1 14.55	+ 7 33.8	1.237	2.144	15.4	20.8
9 18	1 4.89	- 8 58.1	1.985	2.942	7.2	21.2	9 18	1 7.85	+ 7 19.8	1.188	2.149	10.6	20.5
9 28	0 57.20	- 9 55.3	1.966	2.945	5.2	21.0	9 28	0 58.83	+ 6 52.4	1.161	2.153	5.2	20.2
10 8	0 48.90	-10 41.9	1.976	2.947	5.6	21.1	10 8	0 48.70	+ 6 17.3	1.159	2.158	0.7	19.9
10 18	0 40.82	-11 12.9	2.013	2.950	8.0	21.2	10 18	0 38.89	+ 5 41.4	1.183	2.164	6.3	20.3
10 28	0 33.83	-11 25.0	2.076	2.952	10.9	21.4	10 28	0 30.82	+ 5 12.4	1.231	2.169	11.4	20.6
11 7	0 28.55	-11 17.7	2.162	2.953	13.6	21.6	11 7	0 25.44	+ 4 56.3	1.300	2.175	15.9	20.9
<b>100602</b>	1997 <i>RD</i> <sub>9</sub>	10	6.7 308°92	1°6/ 8.2 17			<b>390922</b>	2005 <i>EY</i> <sub>243</sub>	10	6.7 175°19	1°0/ 7.7 18		
8 29	1 12.15	+11 31.1	2.104</										

EPHEMERIDES

10 6.7

10 6.7

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>308843</b>	2006 RA <sub>61</sub>	10 6.7	2°02	5°3/11.1	17		<b>298165</b>	2002 TN <sub>103</sub>	10 6.7	359°23	1°3/ 7.9	18	
8 29	1 9.66	+18 54.6	1.399	2.203	20.0	20.1	8 29	1 11.88	+12 1.5	1.693	2.507	16.7	20.4
9 8	1 7.88	+19 19.2	1.325	2.201	16.7	19.9	9 8	1 9.00	+11 39.2	1.613	2.506	13.3	20.2
9 18	1 3.38	+19 19.2	1.267	2.201	12.8	19.7	9 18	1 3.81	+10 58.4	1.554	2.505	9.4	20.0
9 28	0 56.74	+18 53.2	1.230	2.201	8.7	19.5	9 28	0 56.86	+10 1.4	1.517	2.505	4.9	19.7
10 8	0 49.02	+18 3.7	1.216	2.203	5.5	19.3	10 8	0 49.05	+ 8 53.5	1.507	2.505	1.3	19.5
10 18	0 41.48	+16 56.9	1.227	2.206	6.4	19.4	10 18	0 41.41	+ 7 41.9	1.524	2.506	5.0	19.7
10 28	0 35.40	+15 42.8	1.262	2.211	10.1	19.6	10 28	0 35.00	+ 6 34.9	1.567	2.506	9.4	20.0
11 7	0 31.73	+14 32.0	1.319	2.216	14.1	19.8	11 7	0 30.60	+ 5 39.6	1.634	2.508	13.3	20.2
<b>426705</b>	2013 TR <sub>33</sub>	10 6.7	103°20	0°2/ 6.9	17		<b>291239</b>	2006 BY <sub>36</sub>	10 6.7	354°21	2°7/ 9.0	18	
8 29	1 15.94	+10 10.8	1.485	2.308	18.2	21.3	8 29	1 14.85	+13 5.0	1.952	2.746	15.5	19.8
9 8	1 12.35	+ 9 29.8	1.417	2.317	14.4	21.1	9 8	1 11.07	+13 27.4	1.866	2.743	12.6	19.6
9 18	1 6.12	+ 8 29.0	1.369	2.326	9.8	20.9	9 18	1 5.11	+13 35.8	1.801	2.741	9.1	19.4
9 28	0 57.93	+ 7 12.6	1.343	2.335	4.7	20.6	9 28	0 57.46	+13 30.3	1.759	2.739	5.4	19.2
10 8	0 48.86	+ 5 48.2	1.344	2.343	0.6	20.3	10 8	0 48.96	+13 12.8	1.744	2.738	2.7	19.0
10 18	0 40.13	+ 4 25.0	1.372	2.352	5.8	20.7	10 18	0 40.55	+12 47.2	1.757	2.737	4.7	19.1
10 28	0 32.92	+ 3 12.4	1.426	2.360	10.6	21.0	10 28	0 33.24	+12 18.8	1.797	2.737	8.3	19.3
11 7	0 28.04	+ 2 17.2	1.503	2.368	14.7	21.3	11 7	0 27.80	+11 53.2	1.862	2.737	11.8	19.6
<b>46270</b>	2001 HW <sub>62</sub>	10 6.7	7°93	0°9/ 5.8	18		<b>59866</b>	1999 RF <sub>105</sub>	10 6.7	54°95	1°0/ 5.8	18	
8 29	1 11.74	+ 4 58.1	1.978	2.806	14.1	18.5	8 29	1 16.63	+ 3 21.9	2.011	2.832	14.2	18.4
9 8	1 8.45	+ 4 34.8	1.902	2.807	11.0	18.3	9 8	1 12.13	+ 3 14.9	1.940	2.842	11.0	18.2
9 18	1 3.19	+ 4 0.9	1.847	2.808	7.4	18.1	9 18	1 5.60	+ 3 0.0	1.892	2.851	7.4	18.0
9 28	0 56.48	+ 3 20.1	1.817	2.810	3.4	17.9	9 28	0 57.60	+ 2 40.0	1.869	2.861	3.4	17.8
10 8	0 49.08	+ 2 37.3	1.815	2.813	1.3	17.7	10 8	0 48.96	+ 2 19.2	1.874	2.872	1.3	17.6
10 18	0 41.87	+ 1 57.8	1.840	2.816	5.1	18.0	10 18	0 40.58	+ 2 1.6	1.907	2.882	5.1	17.9
10 28	0 35.69	+ 1 26.7	1.892	2.819	8.9	18.2	10 28	0 33.33	+ 1 51.4	1.968	2.892	8.8	18.2
11 7	0 31.22	+ 1 7.9	1.969	2.823	12.2	18.5	11 7	0 27.88	+ 1 51.4	2.054	2.903	12.0	18.4
<b>356166</b>	2009 HN <sub>47</sub>	10 6.7	301°59	4°9/ 3.2	18		<b>460072</b>	2014 OT <sub>251</sub>	10 6.7	7°18	4°9/10.6	17	
8 29	1 19.47	- 6 2.4	1.700	2.542	15.4	20.8	8 29	1 15.80	+17 1.9	1.729	2.514	17.6	20.7
9 8	1 15.15	- 6 25.7	1.605	2.517	12.2	20.6	9 8	1 12.17	+17 53.3	1.650	2.515	14.6	20.5
9 18	1 8.17	- 6 51.8	1.531	2.492	8.7	20.3	9 18	1 6.04	+18 27.8	1.590	2.517	11.1	20.3
9 28	0 59.03	- 7 14.4	1.482	2.467	5.5	20.1	9 28	0 57.97	+18 43.5	1.553	2.520	7.6	20.1
10 8	0 48.68	- 7 27.1	1.458	2.441	5.4	20.0	10 8	0 48.90	+18 40.9	1.540	2.524	5.1	20.0
10 18	0 38.29	- 7 24.2	1.462	2.416	8.7	20.1	10 18	0 39.95	+18 23.1	1.554	2.529	6.0	20.0
10 28	0 29.12	- 7 2.1	1.491	2.392	12.8	20.3	10 28	0 32.29	+17 55.8	1.594	2.534	9.2	20.2
11 7	0 22.18	- 6 20.1	1.542	2.367	16.5	20.5	11 7	0 26.78	+17 26.2	1.658	2.541	12.6	20.5
<b>480703</b>	2015 PE <sub>212</sub>	10 6.7	110°51	3°5/11.0	18		<b>263256</b>	2008 BB <sub>15</sub>	10 6.7	120°30	4°5/ 2.8	18	
8 29	1 14.25	+20 49.9	2.216	2.965	15.2	21.3	8 29	1 16.72	- 1 28.5	1.526	2.374	16.6	20.7
9 8	1 10.18	+20 20.6	2.139	2.982	12.5	21.2	9 8	1 12.82	- 2 42.6	1.464	2.382	12.8	20.5
9 18	1 4.22	+19 31.0	2.082	2.998	9.4	21.0	9 18	1 6.37	- 4 5.8	1.424	2.389	8.7	20.3
9 28	0 56.91	+18 21.9	2.049	3.015	6.2	20.8	9 28	0 58.05	- 5 29.8	1.408	2.396	5.2	20.1
10 8	0 49.03	+16 57.3	2.044	3.031	3.7	20.7	10 8	0 48.92	- 6 45.0	1.419	2.403	5.2	20.1
10 18	0 41.43	+15 23.2	2.069	3.046	4.4	20.8	10 18	0 40.14	- 7 43.2	1.456	2.410	8.7	20.3
10 28	0 34.90	+13 47.4	2.122	3.061	7.3	21.0	10 28	0 32.84	- 8 18.4	1.517	2.417	12.7	20.6
11 7	0 30.06	+12 17.3	2.203	3.076	10.3	21.2	11 7	0 27.81	- 8 29.1	1.601	2.423	16.1	20.8
<b>73468</b>	2002 OB <sub>8</sub>	10 6.7	317°45	1°6/ 8.3	18		<b>265306</b>	2004 HJ <sub>36</sub>	10 6.7	213°53	1°2/ 5.7	18	
8 29	1 11.46	+12 1.8	2.143	2.942	14.1	19.1	8 29	1 18.85	+ 4 5.9	1.834	2.654	15.3	20.8
9 8	1 8.26	+11 53.9	2.048	2.931	11.4	18.9	9 8	1 14.27	+ 3 43.2	1.748	2.649	12.0	20.6
9 18	1 3.12	+11 31.7	1.973	2.920	8.1	18.7	9 18	1 7.31	+ 3 9.6	1.684	2.644	8.1	20.3
9 28	0 56.49	+10 56.6	1.924	2.909	4.4	18.4	9 28	0 58.54	+ 2 28.8	1.645	2.638	3.8	20.0
10 8	0 49.08	+10 11.9	1.901	2.898	1.6	18.2	10 8	0 48.83	+ 1 46.2	1.634	2.631	1.7	19.9
10 18	0 41.72	+ 9 22.2	1.907	2.888	4.2	18.4	10 18	0 39.26	+ 1 7.5	1.651	2.624	5.9	20.1
10 28	0 35.28	+ 8 33.4	1.940	2.878	8.0	18.6	10 28	0 30.90	+ 0 38.7	1.695	2.617	10.1	20.4
11 7	0 30.46	+ 7 51.2	1.999	2.869	11.4	18.8	11 7	0 24.57	+ 0 23.6	1.763	2.609	13.8	20.6
<b>67698</b>	2000 SW <sub>354</sub>	10 6.7	305°49	9°8/26.9	18		<b>461288</b>	2015 XM <sub>76</sub>	10 6.7	344°01	5°4/30.8	18	
8 29	1 13.19	-14 25.6	1.544	2.406	15.7	18.8	8 29	1 11.31	- 7 31.2	2.053	2.902	12.9	20.6
9 8	1 10.30	-16 17.5	1.480	2.394	12.9	18.6	9 8	1 8.06	- 8 40.3	1.983	2.899	10.1	20.4
9 18	1 4.83	-18 8.0	1.438	2.383	10.6	18.4	9 18	1 2.90	- 9 51.9	1.937	2.896	7.3	20.3
9 28	0 57.38	-19 45.3	1.420	2.372	9.8	18.4	9 28	0 56.36	-10 59.1	1.917	2.893	5.5	20.2
10 8	0 48.96	-20 58.0	1.426	2.361	11.0	18.4	10 8	0 49.17	-11 55.0	1.923	2.890	6.1	20.2
10 18	0 40.75	-21 38.5	1.455	2.351	13.6	18.6	10 18	0 42.15	-12 34.0	1.956	2.888	8.5	20.3
10 28	0 33.91	-21 43.5	1.506	2.340	16.5	18.7	10 28	0 36.15	-12 52.4	2.015	2.886	11.3	20.5
11 7	0 29.33	-21 14.9	1.574	2.330	19.2	18.9	11 7	0 31.78	-12 49.5	2.095	2.885	14.0	20.7
<b>164239</b>	2004 TL <sub>35</sub>	10 6.7	16°14	1°0/ 7.4	17		<b>479511</b>	2014 BV <sub>15</sub>	10 6.7	148°54	3°8/10.3	18	
8 29	1 13.78	+ 9 30.7	1.031	1.887	22.2	20.3	8 29	1 19.07	+17 41.6	2.063	2.824	15.8	21.8
9 8	1 11.74	+ 9 28.5	0.972	1.890	17.6	20.0	9 8	1 14.23	+17 59.3	1.979	2.831	13.0	21.6
9 18	1 6.28	+ 9 4.2	0.930	1.894	12.2	19.8	9 18	1 7.16	+17 59.8	1.916	2.838	9.8	21.4
9 28	0 58.19	+ 8 20.5	0.907	1.899	6.2	19.5	9 28	0 58.42	+17 42.8	1.876	2.844	6.4	21.2
10 8	0 48.85	+ 7 25.0	0.907	1.906	1.1	19.2	10 8	0 48.86	+17 9.9	1.864	2.850	4.0	21.1
10 18	0 39.90	+ 6 27.3	0.929	1.913	6.8	19.6	10 18	0 39.47	+16 25.3	1.880	2.856	5.0	21.2
10 28	0 32.96	+ 5 38.5	0.974	1.921	12.6	19.9	10 28	0 31.24	+15 35.1	1.924	2.861	8.1	21.4
11 7	0 29.05	+ 5 6.5	1.039	1.930	17.6	20.2	11 7	0 24.93	+14 46.0	1.995	2.865	11.4	21.6
<b>50223</b>	2000 AC <sub>239</sub>	10 6.7	348°77	1°4/ 7.6	18		<b>469365</b>	2001 OX <sub>37</sub>	10 6.7	47°35	5°5/ 3.1	16	
8 29	1 9.05	+ 9 25.8	1.037	1.900	21.5	18.7	8 29	1 18.81	- 4 3.5				

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>129059</b>	2004 VS <sub>18</sub>	10	6.7 168°82	3°9/ 2.2 18			<b>352248</b>	2007 TJ <sub>163</sub>	10	6.7 358°93	1°6/ 5.4 18		
8 29	1 16.52	- 7 57.0	2.786	3.610	10.6	20.5	8 29	1 14.12	+ 3 39.1	1.591	2.431	16.4	20.5
9 8	1 11.47	- 8 28.6	2.712	3.613	8.3	20.3	9 8	1 10.85	+ 3 13.2	1.517	2.429	12.8	20.3
9 18	1 4.88	- 9 0.3	2.663	3.616	5.9	20.2	9 18	1 5.11	+ 2 35.6	1.464	2.428	8.6	20.0
9 28	0 57.20	- 9 28.1	2.641	3.618	4.1	20.1	9 28	0 57.53	+ 1 50.8	1.434	2.428	4.0	19.8
10 8	0 49.05	- 9 48.1	2.648	3.620	4.3	20.1	10 8	0 49.04	+ 1 5.1	1.431	2.428	2.1	19.6
10 18	0 41.08	- 9 57.0	2.685	3.622	6.2	20.2	10 18	0 40.77	+ 0 25.3	1.454	2.428	6.4	19.9
10 28	0 33.95	- 9 52.9	2.750	3.623	8.6	20.4	10 28	0 33.83	- 0 2.4	1.503	2.429	10.8	20.2
11 7	0 28.15	- 9 35.3	2.840	3.624	10.8	20.5	11 7	0 29.03	- 0 14.2	1.574	2.431	14.6	20.4
<b>205064</b>	1999 RL <sub>44</sub>	10	6.7 0°31	8°5/ 9.9 18			<b>96875</b>	1999 TE <sub>10</sub>	10	6.7 309°81	2°0/ 8.3 18		
8 29	1 17.71	+13 53.6	0.992	1.832	24.0	18.1	8 29	1 12.88	+12 12.6	1.586	2.402	17.5	19.6
9 8	1 15.48	+16 17.7	0.928	1.826	20.2	17.9	9 8	1 10.24	+12 10.6	1.490	2.383	14.2	19.4
9 18	1 9.36	+18 28.5	0.879	1.823	15.8	17.6	9 18	1 4.99	+11 50.0	1.412	2.363	10.2	19.1
9 28	0 59.93	+20 17.8	0.850	1.822	11.3	17.3	9 28	0 57.61	+11 11.5	1.357	2.344	5.7	18.8
10 8	0 48.61	+21 39.1	0.842	1.823	8.6	17.2	10 8	0 49.01	+10 18.8	1.328	2.325	2.0	18.5
10 18	0 37.35	+22 30.0	0.855	1.828	9.9	17.3	10 18	0 40.35	+ 9 18.4	1.324	2.306	5.4	18.7
10 28	0 28.24	+22 55.2	0.889	1.835	13.7	17.6	10 28	0 32.91	+ 8 18.7	1.346	2.288	10.3	18.9
11 7	0 22.72	+23 4.8	0.943	1.844	18.0	17.8	11 7	0 27.68	+ 7 28.2	1.391	2.271	14.7	19.1
<b>390933</b>	2005 GM <sub>48</sub>	10	6.7 135°20	0°4/ 6.3 18			<b>291584</b>	2006 GG <sub>4</sub>	10	6.7 112°33	0°0/ 6.7 16		
8 29	1 13.69	+ 7 36.0	2.012	2.827	14.4	21.7	8 29	1 19.67	+ 8 29.1	1.483	2.305	18.3	22.2
9 8	1 9.94	+ 6 56.7	1.935	2.832	11.3	21.5	9 8	1 15.21	+ 7 58.2	1.420	2.319	14.4	22.0
9 18	1 4.19	+ 6 4.1	1.878	2.836	7.6	21.3	9 18	1 8.03	+ 7 10.0	1.376	2.333	9.8	21.8
9 28	0 56.98	+ 5 1.8	1.848	2.840	3.5	21.0	9 28	0 58.87	+ 6 8.8	1.355	2.347	4.6	21.5
10 8	0 49.09	+ 3 55.5	1.845	2.844	0.8	20.8	10 8	0 48.86	+ 5 1.6	1.361	2.360	0.7	21.3
10 18	0 41.39	+ 2 51.4	1.871	2.848	4.9	21.2	10 18	0 39.27	+ 3 56.7	1.394	2.373	5.9	21.7
10 28	0 34.76	+ 1 55.9	1.925	2.851	8.8	21.4	10 28	0 31.30	+ 3 2.1	1.454	2.385	10.7	22.0
11 7	0 29.87	+ 1 13.7	2.004	2.855	12.2	21.6	11 7	0 25.76	+ 2 23.6	1.536	2.397	14.7	22.3
<b>80333</b>	1999 XL <sub>94</sub>	10	6.7 336°58	7°3/ 1.6 18			<b>306874</b>	2001 SE <sub>335</sub>	10	6.7 0°91	2°1/ 8.5 18		
8 29	1 13.07	- 6 27.4	1.180	2.056	18.5	18.3	8 29	1 13.45	+11 52.3	1.606	2.422	17.4	20.9
9 8	1 10.91	- 7 33.1	1.114	2.045	14.7	18.0	9 8	1 10.41	+12 0.6	1.528	2.420	14.0	20.6
9 18	1 5.63	- 8 44.7	1.066	2.034	10.6	17.8	9 18	1 4.89	+11 52.2	1.469	2.419	10.0	20.4
9 28	0 57.90	- 9 51.5	1.040	2.024	7.5	17.6	9 28	0 57.45	+11 27.9	1.434	2.419	5.6	20.1
10 8	0 48.94	-10 41.9	1.037	2.015	8.2	17.6	10 8	0 49.06	+10 51.4	1.423	2.420	2.1	19.9
10 18	0 40.21	-11 6.6	1.057	2.007	11.8	17.8	10 18	0 40.83	+10 8.5	1.439	2.421	5.1	20.1
10 28	0 33.19	-11 0.6	1.098	2.001	16.1	18.0	10 28	0 33.91	+ 9 26.3	1.481	2.423	9.5	20.4
11 7	0 28.91	-10 24.3	1.158	1.995	20.1	18.2	11 7	0 29.16	+ 8 51.5	1.546	2.426	13.5	20.7
<b>436074</b>	2009 SX <sub>114</sub>	10	6.7 320°52	1°4/ 7.9 18			<b>384303</b>	2009 SM <sub>37</sub>	10	6.7 293°53	1°3/ 7.7 18		
8 29	1 11.48	+12 38.2	1.397	2.223	18.9	20.8	8 29	1 14.90	+10 35.7	1.521	2.342	17.9	21.5
9 8	1 9.31	+12 10.3	1.314	2.214	15.3	20.6	9 8	1 11.91	+10 28.5	1.428	2.325	14.4	21.2
9 18	1 4.39	+11 18.7	1.249	2.204	10.8	20.3	9 18	1 6.17	+10 2.9	1.354	2.308	10.2	20.9
9 28	0 57.29	+10 5.7	1.207	2.196	5.7	20.0	9 28	0 58.19	+ 9 20.5	1.303	2.292	5.3	20.6
10 8	0 49.03	+ 8 37.8	1.189	2.187	1.4	19.7	10 8	0 48.94	+ 8 25.7	1.277	2.275	1.3	20.3
10 18	0 40.88	+ 7 4.7	1.196	2.179	5.8	19.9	10 18	0 39.66	+ 7 25.6	1.277	2.259	5.7	20.6
10 28	0 34.15	+ 5 37.8	1.229	2.172	11.0	20.2	10 28	0 31.68	+ 6 29.1	1.302	2.242	10.8	20.8
11 7	0 29.83	+ 4 26.7	1.284	2.165	15.7	20.5	11 7	0 26.05	+ 5 44.1	1.351	2.226	15.4	21.0
<b>393225</b>	2013 FL <sub>4</sub>	10	6.7 265°98	1°4/ 3.7 18			<b>97591</b>	2000 EP <sub>34</sub>	10	6.7 338°29	5°1/ 1.4 18		
8 29	1 4.58	+ 0 44.9	4.467	5.284	7.0	21.0	8 29	1 15.70	-10 13.3	2.343	3.178	12.0	18.7
9 8	1 1.81	- 0 4.1	4.378	5.280	5.4	20.9	9 8	1 11.18	-10 51.4	2.272	3.177	9.5	18.5
9 18	0 58.21	- 0 57.1	4.315	5.276	3.5	20.7	9 18	1 4.86	-11 28.5	2.225	3.176	7.0	18.4
9 28	0 54.02	- 1 51.7	4.281	5.271	1.8	20.6	9 28	0 57.27	-11 59.3	2.203	3.175	5.3	18.3
10 8	0 49.55	- 2 45.1	4.277	5.267	1.6	20.6	10 8	0 49.10	-12 18.9	2.210	3.175	5.7	18.3
10 18	0 45.12	- 3 34.7	4.304	5.262	3.3	20.7	10 18	0 41.14	-12 23.6	2.245	3.174	7.7	18.4
10 28	0 41.09	- 4 18.0	4.361	5.258	5.1	20.8	10 28	0 34.15	-12 11.4	2.306	3.173	10.3	18.6
11 7	0 37.75	- 4 53.1	4.444	5.254	6.8	20.9	11 7	0 28.73	-11 42.4	2.390	3.173	12.7	18.7
<b>279828</b>	2000 SQ <sub>108</sub>	10	6.7 187°36	0°4/ 6.4 18			<b>521351</b>	2015 LV <sub>45</sub>	10	6.7 100°11	2°5/ 9.2 18		
8 29	1 14.03	+ 8 3.9	1.724	2.547	16.1	19.6	8 29	1 15.10	+14 53.2	1.887	2.675	16.1	22.1
9 8	1 10.60	+ 7 24.7	1.646	2.547	12.6	19.4	9 8	1 11.26	+14 45.4	1.808	2.682	13.1	21.9
9 18	1 4.86	+ 6 29.5	1.588	2.547	8.6	19.1	9 18	1 5.22	+14 19.6	1.750	2.689	9.5	21.7
9 28	0 57.38	+ 5 22.4	1.554	2.546	4.0	18.9	9 28	0 57.53	+13 37.0	1.715	2.696	5.6	21.5
10 8	0 49.05	+ 4 9.7	1.548	2.546	0.9	18.6	10 8	0 49.07	+12 41.3	1.708	2.702	2.6	21.3
10 18	0 40.91	+ 2 59.1	1.569	2.546	5.5	19.0	10 18	0 40.81	+11 38.4	1.728	2.709	4.6	21.5
10 28	0 34.00	+ 1 58.3	1.616	2.546	9.9	19.2	10 28	0 33.75	+10 35.4	1.776	2.715	8.4	21.7
11 7	0 29.11	+ 1 12.9	1.688	2.546	13.7	19.5	11 7	0 28.62	+ 9 39.4	1.849	2.722	12.0	21.9
<b>178400</b>	1998 OA <sub>11</sub>	10	6.7 36°74	7°8/12.3 18			<b>70576</b>	1999 TP <sub>162</sub>	10	6.7 63°20	2°1/ 8.7 18		
8 29	1 18.44	+21 17.5	1.165	1.961	23.7	19.2	8 29	1 16.16	+14 11.2	1.578	2.381	18.2	19.6
9 8	1 15.19	+22 24.3	1.112	1.978	20.0	19.0	9 8	1 12.25	+13 50.6	1.521	2.405	14.5	19.4
9 18	1 8.52	+23 2.8	1.074	1.996	15.7	18.8	9 18	1 5.88	+13 9.6	1.484	2.430	10.3	19.2
9 28	0 59.24	+23 8.9	1.055	2.015	11.4	18.6	9 28	0 57.80	+12 10.8	1.470	2.454	5.7	19.0
10 8	0 48.79	+22 43.2	1.058	2.035	8.2	18.5	10 8	0 49.04	+10 59.9	1.482	2.478	2.1	18.9
10 18	0 38.84	+21 51.7	1.084	2.055	8.5	18.6	10 18	0 40.74	+ 9 45.0	1.521	2.503	5.0	19.1
10 28	0 30.98	+20 45.7	1.132	2.077	11.6	18.9	10 28	0 33.95	+ 8 34.5	1.587	2.527	9.2	19.4
11 7	0 26.21	+19 37.8	1.203	2.098	15.4	19.2	11 7	0 29.35	+ 7 35.6	1.677	2.552	12.9	19.7
<b>50923</b>	2000 GQ <sub>60</sub>	10	6.7 350°97	1°2/ 5.8 18			<b>481828</b>	2008 UU <sub>343</sub>	10	6.7 322°08	3°1/ 4.7 18		
8 29	1 15.46	+ 3 25.8	1.658	2.493	16.0	18.4	8 29	1 16.06	- 0 3				

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>315937</b>	2008 <i>TE</i> <sub>49</sub>	10	6.7 336°83	1°0/ 8.5 18			<b>517966</b>	2015 <i>TC</i> <sub>365</sub>	10	6.7 259°27	4°1/ 2.0 18		
8 29	1 5.89	+12 7.0	4.030	4.806	8.4	21.1	8 29	1 12.35	- 4 38.6	2.284	3.123	12.1	21.3
9 8	1 2.96	+11 50.4	3.932	4.802	6.7	21.0	9 8	1 8.71	- 5 37.9	2.205	3.116	9.4	21.1
9 18	0 59.06	+11 25.8	3.859	4.799	4.7	20.8	9 18	1 3.31	- 6 41.4	2.149	3.109	6.6	20.9
9 28	0 54.47	+10 54.4	3.813	4.796	2.6	20.7	9 28	0 56.60	- 7 43.7	2.120	3.102	4.4	20.8
10 8	0 49.54	+10 18.3	3.796	4.793	1.0	20.6	10 8	0 49.26	- 8 38.7	2.118	3.096	4.7	20.8
10 18	0 44.67	+ 9 39.8	3.810	4.790	2.4	20.7	10 18	0 42.04	- 9 21.2	2.145	3.089	7.1	20.9
10 28	0 40.25	+ 9 1.7	3.853	4.787	4.5	20.8	10 28	0 35.72	- 9 47.1	2.199	3.082	10.0	21.1
11 7	0 36.62	+ 8 26.7	3.924	4.784	6.5	21.0	11 7	0 30.90	- 9 54.8	2.275	3.075	12.7	21.3
<b>510187</b>	2011 <i>BS</i> <sub>121</sub>	10	6.7 264°47	1°3/ 7.8 18			<b>299094</b>	2005 <i>EY</i> <sub>79</sub>	10	6.7 143°05	1°8/ 8.3 18		
8 29	1 15.13	+12 8.9	1.682	2.490	17.0	22.5	8 29	1 19.69	+11 6.4	2.148	2.933	14.5	20.7
9 8	1 11.84	+11 42.9	1.583	2.473	13.7	22.3	9 8	1 14.55	+11 20.0	2.065	2.940	11.6	20.5
9 18	1 5.99	+10 56.9	1.504	2.455	9.7	22.0	9 18	1 7.32	+11 21.4	2.004	2.946	8.2	20.3
9 28	0 58.07	+ 9 52.3	1.449	2.437	5.1	21.7	9 28	0 58.53	+11 11.4	1.969	2.952	4.6	20.1
10 8	0 49.00	+ 8 34.3	1.420	2.418	1.3	21.4	10 8	0 48.99	+10 52.5	1.961	2.958	1.8	19.9
10 18	0 39.89	+ 7 10.6	1.418	2.399	5.4	21.6	10 18	0 39.62	+10 28.2	1.984	2.963	4.3	20.1
10 28	0 31.96	+ 5 50.7	1.443	2.380	10.2	21.8	10 28	0 31.35	+10 3.5	2.035	2.968	7.9	20.4
11 7	0 26.20	+ 4 43.1	1.492	2.361	14.6	22.1	11 7	0 24.89	+ 9 42.9	2.112	2.973	11.2	20.6
<b>436622</b>	2011 <i>LO</i> <sub>22</sub>	10	6.7 20°58	10°5/27.8 18			<b>409763</b>	2006 <i>DH</i> <sub>100</sub>	10	6.7 160°45	2°7/ 9.7 17		
8 29	1 11.18	-13 31.7	1.226	2.106	17.8	19.3	8 29	1 15.00	+15 17.7	2.504	3.271	13.2	21.5
9 8	1 9.04	-15 27.4	1.188	2.114	14.4	19.1	9 8	1 10.69	+15 29.6	2.413	3.272	10.8	21.4
9 18	1 4.05	-17 18.5	1.170	2.123	11.7	19.0	9 18	1 4.62	+15 28.4	2.344	3.273	7.9	21.2
9 28	0 57.02	-18 51.2	1.174	2.133	10.5	19.0	9 28	0 57.23	+15 14.5	2.301	3.275	4.9	21.0
10 8	0 49.18	-19 54.0	1.200	2.144	11.7	19.1	10 8	0 49.18	+14 49.5	2.285	3.276	2.8	20.9
10 18	0 41.86	-20 20.1	1.248	2.156	14.3	19.3	10 18	0 41.22	+14 16.8	2.299	3.277	4.0	21.0
10 28	0 36.24	-20 8.6	1.315	2.170	17.3	19.5	10 28	0 34.13	+13 40.8	2.342	3.278	6.9	21.1
11 7	0 33.08	-19 23.4	1.400	2.184	20.0	19.7	11 7	0 28.53	+13 6.3	2.411	3.279	9.8	21.3
<b>444408</b>	2006 <i>AL</i> <sub>40</sub>	10	6.7 302°39	6°5/29.1 18			<b>46673</b>	1996 <i>OL</i> <sub>2</sub>	10	6.7 337°29	4°4/11.4 18		
8 29	1 11.54	-11 1.3	2.125	2.973	12.5	20.9	8 29	1 10.49	+20 10.0	2.033	2.799	15.8	18.7
9 8	1 8.26	-12 23.5	2.054	2.965	10.0	20.8	9 8	1 7.75	+20 18.7	1.938	2.790	13.3	18.5
9 18	1 3.08	-13 46.2	2.006	2.957	7.7	20.6	9 18	1 2.94	+20 8.0	1.863	2.782	10.3	18.3
9 28	0 56.50	-15 1.9	1.985	2.949	6.5	20.5	9 28	0 56.53	+19 36.9	1.811	2.774	7.1	18.1
10 8	0 49.25	-16 3.2	1.990	2.941	7.3	20.6	10 8	0 49.27	+18 47.5	1.784	2.766	4.7	18.0
10 18	0 42.14	-16 44.6	2.022	2.933	9.5	20.7	10 18	0 42.06	+17 44.2	1.784	2.759	5.2	18.0
10 28	0 36.01	-17 2.7	2.078	2.925	12.1	20.8	10 28	0 35.85	+16 33.6	1.811	2.753	8.1	18.2
11 7	0 31.49	-16 57.3	2.155	2.918	14.5	21.0	11 7	0 31.39	+15 23.7	1.863	2.747	11.4	18.3
<b>91037</b>	1998 <i>FF</i> <sub>5</sub>	10	6.7 73°00	1°4/ 7.1 17			<b>440161</b>	2003 <i>WA</i> <sub>39</sub>	10	6.7 301°75	7°1/13.7 17		
8 29	1 38.89	+ 2 43.8	1.036	1.866	23.9	19.2	8 29	1 12.52	+26 2.3	1.792	2.532	18.6	21.2
9 8	1 31.86	+ 4 15.0	0.971	1.873	19.2	18.9	9 8	1 9.88	+26 24.8	1.691	2.517	16.1	21.0
9 18	1 20.30	+ 5 42.4	0.922	1.880	13.3	18.6	9 18	1 4.71	+26 22.2	1.608	2.502	13.2	20.8
9 28	1 5.07	+ 7 4.1	0.896	1.887	6.7	18.2	9 28	0 57.49	+25 51.0	1.545	2.487	10.0	20.6
10 8	0 48.00	+ 8 18.1	0.895	1.894	1.6	17.9	10 8	0 49.12	+24 51.3	1.506	2.472	7.6	20.4
10 18	0 31.46	+ 9 23.4	0.921	1.901	7.7	18.4	10 18	0 40.71	+23 27.0	1.492	2.457	7.4	20.4
10 28	0 17.70	+10 22.1	0.971	1.908	14.0	18.7	10 28	0 33.49	+21 46.4	1.504	2.443	9.7	20.5
11 7	0 8.13	+11 18.4	1.043	1.915	19.2	19.1	11 7	0 28.43	+20 0.9	1.541	2.429	13.0	20.6
<b>497471</b>	2005 <i>YA</i> <sub>154</sub>	10	6.7 187°79	3°4/10.5 17			<b>509517</b>	2007 <i>VH</i> <sub>313</sub>	10	6.7 311°95	6°6/11.6 18		
8 29	1 14.24	+17 39.0	2.345	3.106	14.1	21.9	8 29	1 13.06	+20 37.3	1.283	2.081	21.8	22.0
9 8	1 10.27	+17 50.2	2.254	3.106	11.7	21.7	9 8	1 11.19	+21 11.2	1.194	2.066	18.5	21.7
9 18	1 4.41	+17 46.1	2.183	3.106	8.8	21.6	9 18	1 6.12	+21 18.1	1.122	2.050	14.6	21.4
9 28	0 57.15	+17 26.4	2.138	3.106	5.8	21.4	9 28	0 58.36	+20 54.1	1.068	2.035	10.3	21.1
10 8	0 49.17	+16 53.0	2.119	3.105	3.6	21.2	10 8	0 49.00	+19 59.2	1.037	2.021	7.0	20.9
10 18	0 41.28	+16 9.5	2.129	3.105	4.4	21.3	10 18	0 39.55	+18 39.0	1.029	2.007	7.7	20.9
10 28	0 34.31	+15 21.0	2.167	3.105	7.3	21.5	10 28	0 31.67	+17 5.1	1.044	1.993	11.7	21.1
11 7	0 28.93	+14 33.5	2.232	3.105	10.2	21.7	11 7	0 26.64	+15 31.4	1.081	1.980	16.3	21.3
<b>29337</b>	Hakurojo	10	6.7 163°77	1°7/ 4.9 18			<b>52580</b>	1997 <i>NO</i>	10	6.7 171°05	3°3/ 3.7 18		
8 29	1 16.05	+ 4 11.0	2.016	2.836	14.2	18.5	8 29	1 15.71	+ 0 38.7	1.715	2.554	15.4	19.4
9 8	1 11.77	+ 3 17.4	1.939	2.841	11.0	18.3	9 8	1 11.88	- 0 23.5	1.643	2.556	12.0	19.1
9 18	1 5.44	+ 2 12.3	1.885	2.845	7.3	18.1	9 18	1 5.72	- 1 36.0	1.593	2.557	8.0	18.9
9 28	0 57.62	+ 1 0.7	1.857	2.849	3.4	17.9	9 28	0 57.82	- 2 52.4	1.567	2.558	4.3	18.7
10 8	0 49.11	- 0 11.1	1.857	2.853	2.2	17.8	10 8	0 49.11	- 4 4.5	1.569	2.559	3.9	18.7
10 18	0 40.81	- 1 16.4	1.887	2.855	5.8	18.0	10 18	0 40.64	- 5 4.6	1.598	2.559	7.4	18.9
10 28	0 33.62	- 2 9.1	1.944	2.858	9.5	18.3	10 28	0 33.43	- 5 46.7	1.653	2.560	11.4	19.1
11 7	0 28.20	- 2 45.5	2.026	2.859	12.8	18.5	11 7	0 28.27	- 6 7.6	1.731	2.560	14.8	19.4
<b>388903</b>	2008 <i>SK</i> <sub>50</sub>	10	6.7 248°18	0°8/ 8.3 18			<b>397990</b>	2009 <i>BU</i> <sub>99</sub>	10	6.7 347°02	6°7/ 3.3 18		
8 29	1 8.49	+10 34.8	4.540	5.313	7.6	21.2	8 29	1 6.77	- 6 29.7	0.914	1.815	20.4	18.6
9 8	1 4.82	+10 36.4	4.441	5.309	6.0	21.0	9 8	1 6.85	- 6 42.3	0.845	1.790	16.3	18.3
9 18	1 0.25	+10 32.0	4.366	5.305	4.2	20.9	9 18	1 3.45	- 6 56.7	0.791	1.767	11.6	17.9
9 28	0 55.03	+10 22.4	4.318	5.301	2.3	20.8	9 28	0 57.14	- 7 3.7	0.757	1.747	7.5	17.6
10 8	0 49.49	+10 9.1	4.301	5.298	0.8	20.6	10 8	0 49.18	- 6 53.5	0.742	1.730	7.4	17.6
10 18	0 43.99	+ 9 53.6	4.315	5.294	2.2	20.7	10 18	0 41.29	- 6 18.6	0.747	1.716	11.6	17.7
10 28	0 38.89	+ 9 37.9	4.359	5.290	4.1	20.9	10 28	0 35.27	- 5 15.6	0.771	1.706	16.8	18.0
11 7	0 34.53	+ 9 24.2	4.431	5.286	5.9	21.0	11 7	0 32.42	- 3 46.2	0.812	1.699	21.7	18.2
<b>395778</b>	2012 <i>VG</i> <sub>88</sub>	10	6.7 282°27	2°8/ 4.3 18			<b>823</b>	Sisigambis	10	6.7 268°39	2°5/ 8.7 18 R		
8 29	1 15.98	+ 0 20.8	1.818	2.653	14								

EPHEMERIDES

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>414371</b>	2008 <i>UD</i> <sub>134</sub>	10	6.7 142°44	2°8/10.6 18			<b>176166</b>	2001 <i>JV</i> <sub>8</sub>	10	6.8 88°20	1°4/ 7.8 16		
8 29	1 10.29	+18 44.7	2.705	3.459	12.6	21.2	8 29	1 20.94	+10 30.8	1.553	2.362	18.2	20.3
9 8	1 6.91	+18 23.9	2.613	3.461	10.4	21.0	9 8	1 16.09	+10 29.0	1.492	2.381	14.4	20.1
9 18	1 2.00	+17 47.3	2.542	3.463	7.8	20.9	9 18	1 8.60	+10 10.5	1.450	2.400	10.0	19.9
9 28	0 55.96	+16 55.9	2.496	3.464	5.0	20.7	9 28	0 59.19	+9 37.5	1.432	2.419	5.2	19.6
10 8	0 49.39	+15 52.4	2.478	3.466	2.9	20.6	10 8	0 49.00	+8 55.0	1.440	2.438	1.4	19.4
10 18	0 42.93	+14 41.0	2.489	3.467	3.7	20.6	10 18	0 39.24	+8 9.2	1.476	2.457	5.3	19.7
10 28	0 37.25	+13 27.2	2.530	3.469	6.3	20.8	10 28	0 31.09	+7 27.4	1.538	2.475	9.7	20.0
11 7	0 32.87	+12 16.7	2.598	3.470	9.0	21.0	11 7	0 25.32	+6 55.7	1.624	2.492	13.6	20.3
<b>91810</b>	1999 <i>TQ</i> <sub>249</sub>	10	6.7 143°34	3°4/10.7 18			<b>454629</b>	2014 <i>QA</i> <sub>143</sub>	10	6.8 85°67	4°3/ 1.2 18		
8 29	1 14.18	+18 20.8	2.387	3.144	14.0	19.8	8 29	1 10.86	-4 47.1	2.342	3.183	11.8	21.5
9 8	1 10.17	+18 25.8	2.299	3.148	11.6	19.6	9 8	1 7.42	-6 10.0	2.281	3.193	9.1	21.3
9 18	1 4.32	+18 15.0	2.231	3.151	8.7	19.4	9 18	1 2.35	-7 36.8	2.244	3.204	6.4	21.2
9 28	0 57.11	+17 48.2	2.188	3.154	5.8	19.3	9 28	0 56.14	-9 1.0	2.235	3.215	4.5	21.1
10 8	0 49.23	+17 7.6	2.172	3.158	3.6	19.1	10 8	0 49.43	-10 16.2	2.254	3.225	5.0	21.1
10 18	0 41.47	+16 17.0	2.184	3.160	4.4	19.2	10 18	0 42.93	-11 16.9	2.301	3.236	7.2	21.3
10 28	0 34.64	+15 21.8	2.226	3.163	7.1	19.4	10 28	0 37.33	-11 59.2	2.375	3.246	9.9	21.5
11 7	0 29.36	+14 27.9	2.293	3.166	10.0	19.6	11 7	0 33.15	-12 21.9	2.472	3.257	12.2	21.7
<b>508786</b>	2000 <i>BL</i> <sub>19</sub>	10	6.7 192°03	3°9/13.0 18			<b>4675</b>	Ohboke	10	6.8 132°30	2°5/ 9.1 18		
8 29	1 17.19	+25 12.9	3.805	4.482	10.4	26.7	8 29	1 18.98	+14 50.3	1.913	2.693	16.2	17.4
9 8	1 11.82	+25 18.2	3.694	4.479	8.9	26.6	9 8	1 14.23	+14 44.6	1.837	2.706	13.1	17.2
9 18	1 5.11	+25 10.5	3.604	4.475	7.1	26.5	9 18	1 7.22	+14 21.3	1.781	2.718	9.5	17.1
9 28	0 57.40	+24 49.0	3.540	4.471	5.4	26.3	9 28	0 58.53	+13 41.4	1.750	2.729	5.6	16.8
10 8	0 49.20	+24 14.4	3.506	4.465	4.1	26.2	10 8	0 49.09	+12 48.7	1.746	2.740	2.6	16.7
10 18	0 41.03	+23 28.8	3.502	4.458	4.1	26.2	10 18	0 39.91	+11 48.7	1.771	2.751	4.7	16.8
10 28	0 33.48	+22 35.4	3.529	4.451	5.4	26.3	10 28	0 31.99	+10 48.5	1.823	2.761	8.4	17.1
11 7	0 27.01	+21 38.4	3.586	4.442	7.2	26.4	11 7	0 26.07	+9 54.8	1.902	2.770	11.9	17.3
<b>352384</b>	2007 <i>VZ</i> <sub>323</sub>	10	6.7 342°58	2°9/ 4.4 18			<b>263365</b>	2008 <i>CW</i> <sub>158</sub>	10	6.8 286°00	2°8/ 4.6 18		
8 29	1 16.28	-0 25.8	1.701	2.541	15.5	20.6	8 29	1 16.23	+1 58.1	1.435	2.282	17.5	20.8
9 8	1 12.40	-0 52.4	1.625	2.538	12.1	20.4	9 8	1 12.99	+1 18.7	1.353	2.269	13.7	20.5
9 18	1 6.12	-1 26.2	1.571	2.536	8.1	20.2	9 18	1 6.92	+0 26.3	1.290	2.257	9.3	20.2
9 28	0 58.05	-2 2.5	1.542	2.533	4.2	19.9	9 28	0 58.59	-0 33.3	1.251	2.244	4.6	19.9
10 8	0 49.10	-2 34.9	1.539	2.531	3.4	19.9	10 8	0 49.06	-1 32.0	1.237	2.231	3.4	19.8
10 18	0 40.36	-2 57.7	1.563	2.530	7.0	20.1	10 18	0 39.61	-2 21.2	1.249	2.219	7.8	20.1
10 28	0 32.90	-3 6.4	1.613	2.528	11.0	20.3	10 28	0 31.59	-2 53.5	1.285	2.206	12.7	20.3
11 7	0 27.52	-2 58.6	1.686	2.527	14.6	20.6	11 7	0 26.02	-3 4.4	1.343	2.194	17.0	20.5
<b>159483</b>	2000 <i>SO</i> <sub>170</sub>	10	6.7 66°01	2°0/ 5.5 18			<b>172357</b>	2002 <i>XC</i> <sub>12</sub>	10	6.8 12°80	6°4/11.4 18		
8 29	1 23.43	+0 31.3	1.554	2.385	17.2	19.4	8 29	1 10.96	+18 7.0	1.144	1.967	22.5	18.3
9 8	1 17.94	+0 34.7	1.495	2.401	13.3	19.1	9 8	1 9.40	+19 4.3	1.087	1.974	18.8	18.1
9 18	1 9.79	+0 31.4	1.456	2.417	8.9	18.9	9 18	1 4.68	+19 35.8	1.046	1.984	14.4	17.9
9 28	0 59.72	+0 25.3	1.441	2.434	4.3	18.7	9 28	0 57.54	+19 38.8	1.024	1.995	9.9	17.7
10 8	0 48.89	+0 20.9	1.454	2.450	2.3	18.6	10 8	0 49.24	+19 15.2	1.024	2.009	6.6	17.6
10 18	0 38.53	+0 22.7	1.494	2.466	6.5	18.9	10 18	0 41.30	+18 30.8	1.046	2.024	7.4	17.7
10 28	0 29.82	+0 34.2	1.560	2.483	10.7	19.2	10 28	0 35.18	+17 36.1	1.091	2.042	11.1	17.9
11 7	0 23.53	+0 57.3	1.650	2.499	14.4	19.5	11 7	0 31.84	+16 42.1	1.157	2.060	15.1	18.2
<b>88459</b>	2001 <i>QJ</i> <sub>95</sub>	10	6.8 163°78	2°9/ 4.1 17			<b>321153</b>	2008 <i>UJ</i> <sub>314</sub>	10	6.8 267°39	2°0/ 8.4 18		
8 29	1 15.14	+2 15.5	1.645	2.484	16.0	20.0	8 29	1 15.98	+12 17.3	1.830	2.630	16.2	20.5
9 8	1 11.56	+1 13.0	1.573	2.486	12.4	19.8	9 8	1 12.23	+12 17.3	1.738	2.621	13.1	20.3
9 18	1 5.57	-0 1.8	1.522	2.487	8.3	19.6	9 18	1 6.11	+12 1.1	1.666	2.612	9.3	20.0
9 28	0 57.79	-1 22.5	1.496	2.488	4.2	19.3	9 28	0 58.13	+11 29.8	1.618	2.603	5.2	19.8
10 8	0 49.17	-2 40.7	1.497	2.489	3.5	19.3	10 8	0 49.16	+10 46.6	1.597	2.594	2.0	19.5
10 18	0 40.78	-3 48.0	1.525	2.490	7.3	19.5	10 18	0 40.24	+9 56.8	1.603	2.584	4.9	19.7
10 28	0 33.71	-4 37.5	1.579	2.491	11.4	19.8	10 28	0 32.46	+9 7.4	1.637	2.575	9.1	19.9
11 7	0 28.72	-5 5.6	1.655	2.491	15.1	20.0	11 7	0 26.68	+8 24.9	1.694	2.566	13.0	20.2
<b>223227</b>	2003 <i>DP</i> <sub>14</sub>	10	6.8 236°47	4°6/ 2.4 18			<b>199792</b>	2006 <i>PJ</i> <sub>1</sub>	10	6.8 98°73	4°7/17.1 18		
8 29	1 17.27	-4 5.6	1.931	2.768	14.1	20.9	8 29	1 9.26	+32 49.5	4.586	5.210	9.3	20.2
9 8	1 12.99	-5 5.6	1.845	2.755	11.0	20.7	9 8	1 5.62	+33 13.4	4.486	5.214	8.3	20.1
9 18	1 6.47	-6 11.6	1.782	2.743	7.7	20.5	9 18	1 0.91	+33 25.1	4.405	5.217	7.1	20.0
9 28	0 58.23	-7 17.4	1.745	2.730	4.9	20.3	9 28	0 55.43	+33 23.8	4.347	5.220	5.9	19.9
10 8	0 49.10	-8 15.3	1.736	2.716	5.2	20.3	10 8	0 49.56	+33 9.6	4.315	5.223	5.0	19.9
10 18	0 40.06	-8 58.9	1.755	2.702	8.2	20.4	10 18	0 43.72	+32 43.5	4.310	5.225	4.7	19.9
10 28	0 32.13	-9 23.1	1.799	2.687	11.6	20.6	10 28	0 38.35	+32 7.6	4.332	5.228	5.2	19.9
11 7	0 26.08	-9 26.2	1.866	2.671	14.9	20.8	11 7	0 33.84	+31 25.0	4.383	5.231	6.1	20.0
<b>505114</b>	2012 <i>DN</i> <sub>58</sub>	10	6.8 183°29	0°7/ 6.2 17			<b>492873</b>	2014 <i>QM</i> <sub>384</sub>	10	6.8 343°15	4°5/11.2 18		
8 29	1 21.05	+5 23.1	1.651	2.471	16.8	22.3	8 29	1 15.16	+19 18.0	2.215	2.970	15.0	20.7
9 8	1 16.26	+5 8.3	1.572	2.472	13.2	22.1	9 8	1 11.21	+19 50.2	2.123	2.967	12.6	20.5
9 18	1 8.83	+4 41.1	1.513	2.472	9.0	21.9	9 18	1 5.22	+20 6.4	2.051	2.965	9.7	20.4
9 28	0 59.38	+4 4.9	1.479	2.471	4.2	21.6	9 28	0 57.64	+20 5.6	2.003	2.962	6.8	20.2
10 8	0 48.94	+3 25.1	1.472	2.471	1.2	21.4	10 8	0 49.24	+19 48.5	1.981	2.960	4.7	20.0
10 18	0 38.71	+2 47.8	1.493	2.469	5.9	21.7	10 18	0 40.88	+19 17.8	1.987	2.958	5.2	20.1
10 28	0 29.89	+2 19.4	1.540	2.467	10.5	22.0	10 28	0 33.49	+18 38.7	2.020	2.957	7.8	20.2
11 7	0 23.36	+2 4.3	1.612	2.465	14.5	22.2	11 7	0 27.82	+17 57.2	2.079	2.955	10.7	20.4
<b>66497</b>	1999 <i>RK</i> <sub>66</sub>	10	6.8 6°43	2°9/ 4.4 18			<b>318388</b>	2004 <i>XE</i> <sub>30</sub>	10	6.8 7°45	0°2/ 6.9 18		
8 29	1 12.39	+2 11.6	1.438	2.291	17.1	18.9	8 29	1 8.15	+8 7.2				

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>477055</b>	2009 <i>BU</i> <sub>11</sub>	10 6.8 243°37'	4°9'/30.9 18				<b>212818</b>	2007 <i>UN</i> <sub>1</sub>	10 6.8 351°64'	0°3'/7.0 18			
8 29	1 13.60	- 5 1.7	2.147	2.987	12.7	21.9	8 29	1 12.08	+ 8 8.6	1.428	2.267	18.0	20.2
9 8	1 9.92	- 6 27.7	2.062	2.973	9.9	21.7	9 8	1 9.68	+ 7 58.0	1.352	2.261	14.3	19.9
9 18	1 4.30	- 8 0.1	2.000	2.959	7.1	21.5	9 18	1 4.62	+ 7 30.9	1.295	2.256	9.8	19.7
9 28	0 57.19	- 9 31.9	1.965	2.944	5.1	21.3	9 28	0 57.49	+ 6 50.2	1.260	2.252	4.8	19.4
10 8	0 49.31	-10 55.1	1.959	2.929	5.7	21.3	10 8	0 49.31	+ 6 1.6	1.250	2.249	0.6	19.1
10 18	0 41.51	-12 2.8	1.980	2.914	8.3	21.5	10 18	0 41.29	+ 5 12.5	1.266	2.247	5.8	19.4
10 28	0 34.63	-12 49.8	2.028	2.898	11.4	21.6	10 28	0 34.68	+ 4 30.8	1.306	2.246	10.8	19.7
11 7	0 29.37	-13 14.0	2.098	2.881	14.2	21.8	11 7	0 30.38	+ 4 2.9	1.369	2.246	15.1	20.0
<b>392363</b>	2010 <i>GF</i> <sub>108</sub>	10 6.8 57°11'	1°6'/8.4 18				<b>219471</b>	2001 <i>BY</i> <sub>59</sub>	10 6.8 237°94'	3°2'/2.3 18			
8 29	1 12.93	+14 4.4	1.680	2.485	17.2	20.3	8 29	1 11.81	- 2 41.6	2.829	3.655	10.4	20.7
9 8	1 9.72	+13 26.4	1.615	2.501	13.7	20.1	9 8	1 8.03	- 3 48.5	2.734	3.640	8.0	20.6
9 18	1 4.24	+12 27.9	1.570	2.518	9.7	19.9	9 18	1 2.77	- 5 1.0	2.665	3.624	5.5	20.4
9 28	0 57.13	+11 12.1	1.549	2.535	5.2	19.7	9 28	0 56.40	- 6 14.4	2.624	3.609	3.5	20.2
10 8	0 49.34	+ 9 45.3	1.555	2.552	1.6	19.5	10 8	0 49.47	- 7 23.7	2.612	3.592	3.7	20.2
10 18	0 41.89	+ 8 15.9	1.588	2.570	4.8	19.8	10 18	0 42.57	- 8 23.7	2.631	3.575	5.9	20.3
10 28	0 35.76	+ 6 52.6	1.648	2.587	9.0	20.1	10 28	0 36.35	- 9 10.4	2.677	3.558	8.6	20.5
11 7	0 31.63	+ 5 42.8	1.732	2.605	12.7	20.3	11 7	0 31.33	- 9 41.4	2.749	3.540	11.0	20.6
<b>453470</b>	2009 <i>SO</i> <sub>174</sub>	10 6.8 21°11'	4°3'/10.2 17				<b>477645</b>	2010 <i>MJ</i> <sub>84</sub>	10 6.8 230°72'	3°8'/10.7 18			
8 29	1 16.09	+15 48.9	1.674	2.465	17.8	20.3	8 29	1 16.47	+19 6.1	2.190	2.945	15.2	22.4
9 8	1 12.39	+16 32.6	1.604	2.475	14.6	20.1	9 8	1 12.33	+19 8.2	2.086	2.933	12.7	22.2
9 18	1 6.21	+16 58.9	1.553	2.486	10.9	19.9	9 18	1 6.04	+18 52.1	2.003	2.921	9.7	22.0
9 28	0 58.15	+17 6.9	1.525	2.497	7.1	19.7	9 28	0 58.09	+18 17.1	1.943	2.909	6.4	21.8
10 8	0 49.19	+16 57.9	1.522	2.510	4.4	19.6	10 8	0 49.22	+17 25.2	1.910	2.896	4.0	21.6
10 18	0 40.47	+16 35.7	1.545	2.523	5.6	19.7	10 18	0 40.35	+16 20.5	1.906	2.883	4.9	21.6
10 28	0 33.11	+16 6.4	1.595	2.537	9.0	19.9	10 28	0 32.46	+15 9.6	1.931	2.869	8.0	21.8
11 7	0 27.93	+15 37.1	1.668	2.551	12.5	20.2	11 7	0 26.32	+14 0.0	1.981	2.854	11.3	22.0
<b>127296</b>	2002 <i>JV</i> <sub>80</sub>	10 6.8 58°85'	1°8'/8.7 18				<b>254169</b>	2004 <i>QW</i> <sub>10</sub>	10 6.8 44°04'	4°4'/3.1 18			
8 29	1 13.24	+13 20.0	2.084	2.875	14.7	19.7	8 29	1 16.36	- 5 3.6	1.783	2.627	14.7	20.2
9 8	1 9.54	+13 6.2	2.013	2.891	11.8	19.5	9 8	1 12.11	- 5 40.6	1.729	2.643	11.4	20.0
9 18	1 3.92	+12 37.1	1.964	2.907	8.4	19.4	9 18	1 5.70	- 6 20.1	1.698	2.660	7.9	19.8
9 28	0 56.94	+11 54.5	1.939	2.922	4.7	19.2	9 28	0 57.79	- 6 56.1	1.691	2.677	4.9	19.7
10 8	0 49.37	+11 2.4	1.942	2.938	1.8	19.0	10 8	0 49.30	- 7 22.7	1.712	2.694	4.9	19.7
10 18	0 42.05	+10 5.9	1.973	2.955	4.1	19.2	10 18	0 41.20	- 7 35.2	1.759	2.711	7.7	19.9
10 28	0 35.79	+ 9 11.3	2.033	2.971	7.6	19.5	10 28	0 34.41	- 7 30.8	1.832	2.729	10.9	20.2
11 7	0 31.21	+ 8 23.9	2.118	2.987	10.8	19.7	11 7	0 29.56	- 7 9.3	1.928	2.748	13.9	20.4
<b>55041</b>	2001 <i>QD</i> <sub>57</sub>	10 6.8 274°09'	0°3'/6.9 18				<b>219476</b>	2001 <i>CN</i> <sub>36</sub>	10 6.8 240°15'	1°3'/8.2 17			
8 29	1 17.86	+ 7 37.4	1.661	2.480	16.7	19.1	8 29	1 16.01	+10 54.0	2.766	3.544	11.8	20.9
9 8	1 14.02	+ 7 32.4	1.566	2.464	13.4	18.8	9 8	1 11.40	+10 56.2	2.659	3.530	9.5	20.7
9 18	1 7.53	+ 7 13.5	1.491	2.448	9.3	18.5	9 18	1 5.13	+10 48.4	2.574	3.515	6.7	20.5
9 28	0 58.90	+ 6 42.7	1.440	2.431	4.6	18.2	9 28	0 57.57	+10 31.3	2.517	3.501	3.7	20.3
10 8	0 49.07	+ 6 4.3	1.416	2.415	0.6	17.9	10 8	0 49.32	+10 7.3	2.488	3.485	1.3	20.1
10 18	0 39.21	+ 5 24.3	1.418	2.398	5.6	18.2	10 18	0 41.07	+ 9 39.2	2.490	3.469	3.6	20.2
10 28	0 30.57	+ 4 49.7	1.447	2.381	10.5	18.5	10 28	0 33.53	+ 9 10.9	2.522	3.453	6.7	20.4
11 7	0 24.16	+ 4 26.3	1.499	2.364	14.8	18.7	11 7	0 27.32	+ 8 46.4	2.580	3.437	9.6	20.6
<b>1538</b>	Detre	10 6.8 9°83'	6°1'/9.8 18				<b>520416</b>	2014 <i>JM</i> <sub>89</sub>	10 6.8 284°12'	3°3'/3.4 18			
8 29	1 17.54	+13 25.6	1.007	1.847	23.7	16.8	8 29	1 13.04	- 0 24.6	1.921	2.760	14.0	21.3
9 8	1 15.07	+14 56.6	0.948	1.849	19.6	16.5	9 8	1 9.69	- 1 20.9	1.838	2.751	10.9	21.1
9 18	1 8.89	+16 8.3	0.905	1.853	14.7	16.2	9 18	1 4.24	- 2 26.1	1.778	2.743	7.3	20.9
9 28	0 59.69	+16 56.6	0.880	1.859	9.6	16.0	9 28	0 57.21	- 3 34.2	1.744	2.734	4.1	20.7
10 8	0 48.97	+17 20.1	0.877	1.867	6.2	15.8	10 8	0 49.38	- 4 38.4	1.737	2.725	3.9	20.6
10 18	0 38.55	+17 22.0	0.896	1.876	7.9	16.0	10 18	0 41.67	- 5 31.8	1.757	2.716	7.1	20.8
10 28	0 30.30	+17 10.3	0.937	1.887	12.5	16.3	10 28	0 35.01	- 6 8.9	1.804	2.708	10.7	21.0
11 7	0 25.42	+16 55.3	0.998	1.900	17.1	16.6	11 7	0 30.13	- 6 26.8	1.874	2.699	14.0	21.2
<b>251967</b>	2000 <i>AY</i> <sub>44</sub>	10 6.8 262°02'	2°9'/9.0 18				<b>164233</b>	2004 <i>SX</i> <sub>53</sub>	10 6.8 44°36'	2°1'/5.1 17			
8 29	1 17.56	+14 2.8	1.669	2.466	17.6	21.0	8 29	1 13.52	+ 6 29.5	1.140	1.997	20.4	20.1
9 8	1 13.83	+14 11.1	1.574	2.453	14.4	20.7	9 8	1 11.17	+ 5 21.6	1.084	2.005	15.9	19.8
9 18	1 7.43	+14 1.1	1.498	2.440	10.5	20.5	9 18	1 5.74	+ 3 52.5	1.045	2.014	10.6	19.6
9 28	0 58.87	+13 32.5	1.446	2.427	6.2	20.2	9 28	0 58.01	+ 2 10.2	1.029	2.024	4.9	19.3
10 8	0 49.10	+12 48.2	1.418	2.413	2.9	20.0	10 8	0 49.28	+ 0 26.8	1.037	2.033	2.7	19.2
10 18	0 39.30	+11 53.5	1.418	2.399	5.4	20.1	10 18	0 40.99	- 1 5.0	1.069	2.044	8.0	19.6
10 28	0 30.75	+10 56.4	1.445	2.385	9.9	20.3	10 28	0 34.52	- 2 14.6	1.124	2.054	13.2	19.9
11 7	0 24.46	+10 5.2	1.495	2.371	14.1	20.6	11 7	0 30.75	- 2 56.6	1.200	2.065	17.7	20.2
<b>145675</b>	2002 <i>T</i> <sub>-2</sub>	10 6.8 358°52'	2°0'/8.1 18				<b>326261</b>	2012 <i>DZ</i> <sub>75</sub>	10 6.8 165°23'	4°7'/29.6 18			
8 29	1 12.00	+10 45.6	1.121	1.970	21.2	19.1	8 29	1 11.00	- 7 42.0	2.790	3.625	10.2	20.9
9 8	1 10.31	+10 56.0	1.053	1.966	17.1	18.8	9 8	1 7.34	- 9 18.0	2.722	3.628	8.0	20.7
9 18	1 5.41	+10 45.1	1.003	1.963	12.1	18.5	9 18	1 2.25	-10 56.3	2.679	3.632	5.9	20.6
9 28	0 57.97	+10 14.3	0.972	1.962	6.5	18.2	9 28	0 56.14	-12 30.9	2.666	3.635	4.7	20.5
10 8	0 49.23	+ 9 28.8	0.964	1.962	2.0	17.9	10 8	0 49.55	-13 55.7	2.682	3.637	5.3	20.6
10 18	0 40.72	+ 8 37.0	0.979	1.963	6.4	18.2	10 18	0 43.09	-15 5.6	2.727	3.640	7.3	20.7
10 28	0 33.98	+ 7 49.2	1.016	1.965	11.9	18.5	10 28	0 37.36	-15 57.2	2.799	3.642	9.4	20.9
11 7	0 30.08	+ 7 14.1	1.074	1.969	16.8	18.8	11 7	0 32.86	-16 29.2	2.894	3.643	11.5	21.0
<b>111955</b>	2002 <i>GW</i> <sub>66</sub>	10 6.8 328°78'	0°8'/6.1 18				<b>254568</b>	2005 <i>FF</i> <sub>6</sub>	10 6.8 242°95'	0°9'/6.0 18			
8 29	1 12.14	+ 7 14.5	1.557	2.392	16.9								

EPHEMERIDES

10 6.8

10 6.8

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>269598</b>	2010 <i>BF</i> <sub>70</sub>	10	6.8 300°79	5°5/30.4	18		<b>82286</b>	2001 <i>KE</i> <sub>34</sub>	10	6.8 42°98	6°9/ 1.9	17	
8 29	1 11.87	- 8 56.3	2.251	3.095	12.1	20.2	8 29	1 17.34	- 6 50.3	1.273	2.138	18.2	18.8
9 8	1 8.42	-10 4.7	2.177	3.088	9.5	20.1	9 8	1 13.77	- 7 56.5	1.224	2.148	14.2	18.6
9 18	1 3.19	-11 14.5	2.127	3.082	7.0	19.9	9 18	1 7.28	- 9 5.5	1.196	2.159	10.2	18.4
9 28	0 56.65	-12 19.4	2.103	3.075	5.5	19.8	9 28	0 58.69	-10 7.1	1.189	2.171	7.2	18.3
10 8	0 49.48	-13 12.9	2.107	3.069	6.1	19.8	10 8	0 49.27	-10 51.5	1.207	2.183	7.6	18.3
10 18	0 42.44	-13 49.8	2.138	3.062	8.3	20.0	10 18	0 40.38	-11 11.7	1.250	2.196	10.8	18.6
10 28	0 36.32	-14 7.0	2.194	3.056	10.9	20.1	10 28	0 33.26	-11 4.8	1.314	2.209	14.6	18.8
11 7	0 31.72	-14 3.5	2.272	3.050	13.4	20.3	11 7	0 28.73	-10 31.9	1.399	2.222	18.0	19.1
<b>476844</b>	2008 <i>UF</i> <sub>306</sub>	10	6.8 314°66	4°3/10.3	18		<b>221947</b>	1992 <i>DW</i> <sub>9</sub>	10	6.8 195°95	1°0/ 7.8	18	
8 29	1 12.74	+17 16.5	1.534	2.333	18.8	20.7	8 29	1 17.33	+11 18.8	2.063	2.855	14.8	21.4
9 8	1 10.35	+17 31.8	1.440	2.316	15.7	20.5	9 8	1 12.94	+10 56.1	1.973	2.853	11.8	21.2
9 18	1 5.25	+17 25.1	1.363	2.299	11.9	20.2	9 18	1 6.41	+10 18.2	1.903	2.850	8.3	20.9
9 28	0 57.91	+16 54.9	1.308	2.282	7.7	19.9	9 28	0 58.27	+9 26.9	1.860	2.846	4.3	20.7
10 8	0 49.29	+16 3.2	1.276	2.266	4.5	19.7	10 8	0 49.32	+ 8 26.7	1.844	2.842	1.0	20.5
10 18	0 40.60	+14 55.7	1.270	2.251	6.0	19.8	10 18	0 40.47	+ 7 23.2	1.857	2.837	4.5	20.7
10 28	0 33.19	+13 41.5	1.289	2.236	10.2	20.0	10 28	0 32.69	+ 6 23.1	1.899	2.832	8.5	20.9
11 7	0 28.12	+12 30.9	1.331	2.221	14.6	20.2	11 7	0 26.71	+ 5 32.4	1.967	2.825	12.0	21.2
<b>487467</b>	2014 <i>SR</i> <sub>146</sub>	10	6.8 358°56	0°5/ 7.3	17		<b>226568</b>	2003 <i>WH</i> <sub>189</sub>	10	6.8 358°64	9°8/25.6	18	
8 29	1 15.91	+ 7 12.0	2.156	2.963	13.8	21.3	8 29	1 12.37	-20 33.6	1.927	2.773	13.7	19.4
9 8	1 11.68	+ 7 21.6	2.072	2.962	10.9	21.1	9 8	1 9.16	-22 6.9	1.877	2.771	11.7	19.3
9 18	1 5.46	+ 7 21.6	2.009	2.962	7.5	20.9	9 18	1 3.84	-23 31.9	1.850	2.770	10.2	19.2
9 28	0 57.77	+ 7 13.8	1.972	2.961	3.7	20.7	9 28	0 57.00	-24 39.5	1.846	2.770	9.9	19.2
10 8	0 49.34	+ 7 0.9	1.962	2.961	0.6	20.4	10 8	0 49.50	-25 22.4	1.866	2.769	10.8	19.2
10 18	0 41.03	+ 6 46.5	1.982	2.961	4.3	20.7	10 18	0 42.27	-25 36.2	1.910	2.770	12.6	19.4
10 28	0 33.72	+ 6 34.6	2.029	2.962	8.0	21.0	10 28	0 36.22	-25 20.2	1.975	2.771	14.6	19.5
11 7	0 28.08	+ 6 29.0	2.102	2.963	11.3	21.2	11 7	0 32.00	-24 36.7	2.058	2.772	16.5	19.7
<b>229474</b>	2005 <i>UB</i> <sub>288</sub>	10	6.8 219°86	2°0/ 4.9	18		<b>163238</b>	2002 <i>EQ</i> <sub>151</sub>	10	6.8 319°82	0°4/ 6.0	18	
8 29	1 16.91	+ 2 56.1	1.893	2.719	14.7	22.0	8 29	1 5.34	+ 5 39.1	4.272	5.073	7.6	19.5
9 8	1 12.76	+ 2 14.4	1.808	2.712	11.5	21.8	9 8	1 2.52	+ 5 9.1	4.179	5.070	5.9	19.4
9 18	1 6.36	+ 1 21.8	1.744	2.705	7.7	21.5	9 18	0 58.81	+ 4 33.5	4.111	5.066	3.9	19.3
9 28	0 58.25	+ 0 22.9	1.706	2.698	3.7	21.3	9 28	0 54.48	+ 3 54.3	4.071	5.063	1.8	19.1
10 8	0 49.28	- 0 36.1	1.695	2.690	2.5	21.2	10 8	0 49.85	+ 3 13.7	4.061	5.059	0.6	19.0
10 18	0 40.41	- 1 28.5	1.713	2.682	6.2	21.4	10 18	0 45.26	+ 2 34.3	4.082	5.056	2.6	19.2
10 28	0 32.68	- 2 8.3	1.758	2.673	10.2	21.6	10 28	0 41.09	+ 1 58.6	4.132	5.053	4.7	19.3
11 7	0 26.85	- 2 31.6	1.826	2.664	13.8	21.8	11 7	0 37.65	+ 1 28.6	4.210	5.049	6.6	19.4
<b>79608</b>	1998 <i>RC</i> <sub>49</sub>	10	6.8 13°60	1°6/ 7.8	18		<b>363484</b>	2003 <i>SF</i> <sub>356</sub>	10	6.8 44°98	0°2/ 6.9	18	
8 29	1 14.54	+ 9 45.7	1.146	1.992	21.0	18.8	8 29	1 10.75	+ 9 47.4	2.168	2.977	13.7	20.3
9 8	1 12.15	+ 9 58.6	1.084	1.995	16.8	18.6	9 8	1 7.60	+ 9 5.4	2.090	2.982	10.8	20.2
9 18	1 6.56	+ 9 52.1	1.039	1.999	11.8	18.3	9 18	1 2.66	+ 8 9.2	2.034	2.988	7.3	20.0
9 28	0 58.50	+ 9 27.8	1.015	2.005	6.2	18.0	9 28	0 56.43	+ 7 2.4	2.004	2.994	3.6	19.7
10 8	0 49.25	+ 8 51.2	1.013	2.011	1.6	17.8	10 8	0 49.59	+ 5 49.9	2.001	3.000	0.4	19.5
10 18	0 40.34	+ 8 9.9	1.035	2.019	6.3	18.1	10 18	0 42.93	+ 4 38.1	2.028	3.007	4.3	19.8
10 28	0 33.26	+ 7 33.0	1.081	2.027	11.7	18.4	10 28	0 37.22	+ 3 33.0	2.082	3.013	8.0	20.0
11 7	0 29.01	+ 7 8.1	1.147	2.037	16.4	18.7	11 7	0 33.05	+ 2 39.7	2.162	3.020	11.2	20.3
<b>520458</b>	2014 <i>KV</i> <sub>107</sub>	10	6.8 102°61	1°4/ 5.4	18		<b>520579</b>	2014 <i>NE</i> <sub>72</sub>	10	6.8 300°07	1°3/ 8.0	17	
8 29	1 14.85	+ 3 41.2	2.012	2.836	14.0	21.8	8 29	1 15.15	+10 22.4	2.213	3.009	13.8	21.7
9 8	1 10.92	+ 3 11.5	1.935	2.839	10.9	21.6	9 8	1 11.09	+10 25.1	2.124	3.006	11.1	21.5
9 18	1 4.97	+ 2 32.2	1.880	2.841	7.3	21.4	9 18	1 5.09	+10 15.8	2.056	3.003	7.8	21.3
9 28	0 57.53	+ 1 47.1	1.851	2.844	3.4	21.1	9 28	0 57.63	+ 9 55.9	2.014	3.000	4.2	21.1
10 8	0 49.40	+ 1 1.4	1.850	2.846	1.8	21.0	10 8	0 49.42	+ 9 28.2	2.000	2.997	1.3	20.9
10 18	0 41.45	+ 0 20.5	1.876	2.849	5.4	21.3	10 18	0 41.31	+ 8 56.7	2.014	2.995	4.1	21.1
10 28	0 34.56	- 0 10.4	1.930	2.851	9.1	21.5	10 28	0 34.15	+ 8 26.3	2.057	2.992	7.7	21.3
11 7	0 29.43	- 0 28.1	2.009	2.853	12.4	21.7	11 7	0 28.62	+ 8 1.4	2.125	2.990	11.0	21.5
<b>171889</b>	2001 <i>RJ</i> <sub>31</sub>	10	6.8 114°62	0°6/ 7.3	18		<b>67106</b>	2000 <i>AF</i> <sub>92</sub>	10	6.8 276°66	8°8/17.8	18	
8 29	1 15.78	+ 8 39.3	2.003	2.810	14.7	20.2	8 29	1 16.79	+34 59.9	2.517	3.155	16.0	18.8
9 8	1 11.71	+ 8 30.5	1.921	2.811	11.6	20.0	9 8	1 12.67	+35 58.4	2.421	3.153	14.4	18.6
9 18	1 5.56	+ 8 9.3	1.860	2.813	8.0	19.8	9 18	1 6.36	+36 36.6	2.342	3.151	12.6	18.5
9 28	0 57.84	+ 7 37.7	1.825	2.814	4.0	19.5	9 28	0 58.32	+36 50.4	2.283	3.149	10.8	18.4
10 8	0 49.36	+ 6 59.9	1.817	2.816	0.6	19.3	10 8	0 49.33	+36 38.2	2.246	3.146	9.4	18.3
10 18	0 41.03	+ 6 20.6	1.837	2.817	4.6	19.6	10 18	0 40.31	+36 0.5	2.235	3.144	8.8	18.2
10 28	0 33.79	+ 5 45.4	1.886	2.819	8.5	19.8	10 28	0 32.28	+35 1.7	2.249	3.142	9.4	18.3
11 7	0 28.34	+ 5 19.1	1.959	2.820	12.0	20.0	11 7	0 26.05	+33 48.6	2.288	3.140	10.8	18.4
<b>10666</b>	Feldberg	10	6.8 264°17	3°5/ 4.3	18		<b>75171</b>	1999 <i>VB</i> <sub>143</sub>	10	6.8 139°99	1°0/ 6.0	17	
8 29	1 19.30	- 0 20.3	1.415	2.261	17.7	17.4	8 29	1 20.92	+ 4 28.5	1.650	2.473	16.7	20.0
9 8	1 15.38	- 0 54.7	1.339	2.255	13.9	17.1	9 8	1 16.09	+ 4 12.5	1.578	2.480	13.1	19.8
9 18	1 8.54	- 1 38.8	1.283	2.249	9.4	16.8	9 18	1 8.70	+ 3 45.1	1.527	2.486	8.8	19.6
9 28	0 59.42	- 2 26.4	1.251	2.242	5.0	16.6	9 28	0 59.40	+ 3 10.1	1.500	2.492	4.1	19.3
10 8	0 49.14	- 3 9.4	1.243	2.235	4.1	16.5	10 8	0 49.20	+ 2 33.0	1.500	2.498	1.4	19.2
10 18	0 39.05	- 3 40.3	1.262	2.229	8.2	16.7	10 18	0 39.29	+ 1 59.8	1.528	2.503	6.0	19.5
10 28	0 30.50	- 3 53.0	1.305	2.222	12.9	17.0	10 28	0 30.82	+ 1 36.3	1.582	2.508	10.4	19.8
11 7	0 24.51	- 3 44.9	1.370	2.215	17.1	17.2	11 7	0 24.61	+ 1 26.3	1.660	2.513	14.2	20.0
<b>515694</b>	2014 <i>QH</i> <sub>60</sub>	10	6.8 83°05	1°7/ 8.8	18		<b>327522</b>	2006 <i>BK</i> <sub>97</sub>	10	6.8 299°54	0°1/ 6.9	17	
8 29	1 15.12	+13 15.2											

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>142341</b>	2002 <i>RM</i> <sub>203</sub>	10	6.8 353°64	4.2/ 9.4	18		<b>248662</b>	2006 <i>HM</i> <sub>117</sub>	10	6.8 15°03	0°8/ 6.2	18	
8 29	1 16.69	+13 20.3	1.199	2.027	21.4	19.6	8 29	1 4.82	+ 9 5.3	0.813	1.700	23.7	19.0
9 8	1 14.01	+14 7.9	1.126	2.022	17.6	19.3	9 8	1 5.29	+ 8 17.6	0.769	1.706	18.6	18.7
9 18	1 8.03	+14 35.9	1.070	2.019	13.0	19.0	9 18	1 2.24	+ 7 1.1	0.740	1.715	12.6	18.5
9 28	0 59.36	+14 42.8	1.034	2.016	8.0	18.8	9 28	0 56.54	+ 5 23.9	0.730	1.725	5.8	18.2
10 8	0 49.22	+14 30.0	1.021	2.014	4.3	18.5	10 8	0 49.68	+ 3 40.2	0.739	1.738	1.5	17.9
10 18	0 39.22	+14 2.5	1.031	2.013	6.7	18.7	10 18	0 43.33	+ 2 5.7	0.770	1.753	8.0	18.4
10 28	0 30.99	+13 28.8	1.065	2.014	11.6	19.0	10 28	0 39.04	+ 0 53.8	0.820	1.769	14.0	18.8
11 7	0 25.69	+12 58.4	1.120	2.015	16.3	19.2	11 7	0 37.72	+ 0 11.9	0.889	1.787	19.1	19.2
<b>95555</b>	2002 <i>EZ</i> <sub>96</sub>	10	6.8 21°74	3°9/10.7	18		<b>41170</b>	1999 <i>VW</i> <sub>175</sub>	10	6.8 352°92	5°2/ 2.9	18	
8 29	1 14.72	+17 51.8	2.061	2.830	15.6	19.3	8 29	1 16.85	- 7 29.4	1.720	2.568	15.0	18.1
9 8	1 10.99	+18 10.0	1.976	2.832	12.9	19.1	9 8	1 12.87	- 7 54.7	1.649	2.563	11.8	17.8
9 18	1 5.15	+18 11.2	1.910	2.834	9.8	18.9	9 18	1 6.51	- 8 20.7	1.599	2.560	8.4	17.6
9 28	0 57.71	+17 54.9	1.868	2.836	6.5	18.7	9 28	0 58.38	- 8 41.1	1.574	2.557	5.7	17.5
10 8	0 49.46	+17 22.9	1.853	2.839	4.1	18.6	10 8	0 49.43	- 8 50.1	1.575	2.554	5.7	17.5
10 18	0 41.34	+16 39.1	1.865	2.842	4.9	18.6	10 18	0 40.71	- 8 43.1	1.603	2.552	8.5	17.6
10 28	0 34.27	+15 49.6	1.905	2.845	7.9	18.8	10 28	0 33.29	- 8 17.7	1.655	2.552	12.0	17.9
11 7	0 28.99	+15 0.9	1.970	2.848	11.1	19.0	11 7	0 27.93	- 7 34.1	1.730	2.551	15.2	18.1
<b>202185</b>	2004 <i>XN</i> <sub>27</sub>	10	6.8 246°78	0°8/ 6.1	18		<b>52355</b>	1993 <i>FD</i> <sub>24</sub>	10	6.8 171°78	0°3/ 7.1	18	
8 29	1 15.98	+ 5 51.1	1.962	2.779	14.6	20.9	8 29	1 17.89	+ 9 21.2	1.919	2.723	15.4	20.3
9 8	1 12.04	+ 5 23.7	1.870	2.769	11.5	20.7	9 8	1 13.47	+ 8 53.4	1.837	2.726	12.2	20.1
9 18	1 5.92	+ 4 44.2	1.800	2.758	7.8	20.4	9 18	1 6.83	+ 8 10.7	1.776	2.729	8.4	19.9
9 28	0 58.11	+ 3 55.8	1.754	2.747	3.7	20.2	9 28	0 58.52	+ 7 16.1	1.741	2.731	4.1	19.7
10 8	0 49.42	+ 3 3.6	1.737	2.735	1.1	20.0	10 8	0 49.41	+ 6 14.5	1.733	2.732	0.5	19.4
10 18	0 40.77	+ 2 13.6	1.748	2.723	5.3	20.2	10 18	0 40.48	+ 5 12.4	1.754	2.733	4.9	19.7
10 28	0 33.18	+ 1 31.8	1.786	2.711	9.4	20.4	10 28	0 32.72	+ 4 16.6	1.803	2.733	9.0	20.0
11 7	0 27.41	+ 1 3.1	1.849	2.699	13.1	20.7	11 7	0 26.88	+ 3 32.7	1.877	2.733	12.7	20.2
<b>488276</b>	2016 <i>TB</i> <sub>25</sub>	10	6.8 223°24	3°8/11.2	18		<b>6448</b>	1991 <i>CW</i>	10	6.8 316°52	4°6/ 3.5	18	
8 29	1 13.31	+20 44.9	2.049	2.806	16.0	21.3	8 29	1 12.92	- 0 13.9	1.214	2.082	18.7	16.9
9 8	1 9.96	+20 24.7	1.954	2.802	13.4	21.1	9 8	1 10.95	- 1 11.2	1.137	2.065	14.7	16.6
9 18	1 4.49	+19 42.3	1.879	2.798	10.2	20.9	9 18	1 5.90	- 2 22.5	1.078	2.048	10.0	16.3
9 28	0 57.41	+18 37.8	1.827	2.793	6.8	20.6	9 28	0 58.35	- 3 39.8	1.040	2.032	5.6	16.0
10 8	0 49.52	+17 14.5	1.802	2.789	4.1	20.5	10 8	0 49.42	- 4 52.1	1.027	2.017	5.3	15.9
10 18	0 41.74	+15 38.4	1.806	2.784	4.8	20.5	10 18	0 40.55	- 5 48.3	1.037	2.002	9.8	16.1
10 28	0 35.01	+13 58.0	1.837	2.779	8.1	20.7	10 28	0 33.24	- 6 19.7	1.069	1.988	14.9	16.4
11 7	0 30.08	+12 22.1	1.895	2.773	11.5	20.9	11 7	0 28.63	- 6 22.5	1.120	1.975	19.4	16.6
<b>150878</b>	2001 <i>SE</i> <sub>227</sub>	10	6.8 168°20	1°1/ 5.9	18		<b>518317</b>	2017 <i>BK</i> <sub>74</sub>	10	6.8 170°82	0°8/ 7.9	18	
8 29	1 19.69	+ 4 2.8	1.789	2.610	15.7	20.1	8 29	1 12.60	+10 52.1	2.843	3.627	11.4	22.3
9 8	1 15.01	+ 3 46.5	1.711	2.612	12.3	19.9	9 8	1 8.63	+10 30.0	2.753	3.630	9.0	22.1
9 18	1 7.93	+ 3 19.9	1.655	2.614	8.3	19.7	9 18	1 3.19	+ 9 56.9	2.687	3.632	6.3	21.9
9 28	0 59.06	+ 2 46.5	1.623	2.615	3.9	19.4	9 28	0 56.69	+ 9 14.9	2.647	3.634	3.3	21.7
10 8	0 49.31	+ 2 11.4	1.619	2.617	1.5	19.2	10 8	0 49.68	+ 8 27.1	2.637	3.635	0.8	21.5
10 18	0 39.78	+ 1 40.2	1.643	2.618	5.7	19.5	10 18	0 42.77	+ 7 37.2	2.657	3.636	3.3	21.8
10 28	0 31.53	+ 1 18.1	1.694	2.618	9.9	19.8	10 28	0 36.60	+ 6 49.6	2.706	3.637	6.3	22.0
11 7	0 25.35	+ 1 8.9	1.769	2.619	13.6	20.0	11 7	0 31.65	+ 6 8.3	2.783	3.638	9.0	22.1
<b>440397</b>	2005 <i>LU</i> <sub>20</sub>	10	6.8 170°87	4°5/ 1.9	18		<b>380794</b>	2005 <i>WV</i> <sub>47</sub>	10	6.8 233°80	1°3/ 5.7	18	
8 29	1 15.75	- 6 9.0	2.281	3.114	12.3	22.0	8 29	1 17.57	+ 4 23.4	1.954	2.772	14.6	21.8
9 8	1 11.36	- 7 8.0	2.209	3.117	9.6	21.8	9 8	1 13.30	+ 3 53.9	1.862	2.761	11.5	21.6
9 18	1 5.15	- 8 9.8	2.162	3.119	6.8	21.7	9 18	1 6.80	+ 3 13.2	1.791	2.750	7.7	21.3
9 28	0 57.63	- 9 8.5	2.142	3.121	4.7	21.5	9 28	0 58.57	+ 2 25.0	1.747	2.739	3.6	21.0
10 8	0 49.51	- 9 58.2	2.150	3.122	5.0	21.6	10 8	0 49.42	+ 1 34.5	1.730	2.727	1.6	20.9
10 18	0 41.59	-10 34.0	2.186	3.124	7.4	21.7	10 18	0 40.32	+ 0 47.8	1.742	2.715	5.6	21.1
10 28	0 34.64	-10 52.5	2.249	3.124	10.2	21.9	10 28	0 32.30	+ 0 10.8	1.781	2.702	9.7	21.3
11 7	0 29.26	-10 52.8	2.335	3.125	12.7	22.1	11 7	0 26.15	+ 0 12.2	1.844	2.689	13.4	21.6
<b>457989</b>	2009 <i>WV</i> <sub>19</sub>	10	6.8 304°69	8°0/15.9	17		<b>480077</b>	2015 <i>DO</i> <sub>205</sub>	10	6.8 149°58	1°6/ 5.3	17	
8 29	1 12.98	+30 50.7	2.261	2.947	16.5	20.8	8 29	1 18.56	+ 3 35.0	1.962	2.780	14.6	22.3
9 8	1 9.89	+31 28.4	2.153	2.930	14.7	20.6	9 8	1 13.84	+ 2 58.2	1.888	2.788	11.3	22.1
9 18	1 4.61	+31 44.4	2.061	2.913	12.5	20.4	9 18	1 6.97	+ 2 11.3	1.837	2.796	7.6	21.9
9 28	0 57.56	+31 35.3	1.991	2.896	10.3	20.3	9 28	0 58.56	+ 1 18.6	1.811	2.803	3.6	21.7
10 8	0 49.50	+30 59.8	1.943	2.879	8.5	20.1	10 8	0 49.43	+ 0 25.9	1.814	2.810	2.0	21.6
10 18	0 41.37	+29 59.5	1.922	2.863	8.0	20.1	10 18	0 40.56	- 0 21.0	1.846	2.816	5.7	21.8
10 28	0 34.18	+28 39.9	1.926	2.846	9.2	20.1	10 28	0 32.86	- 0 56.7	1.905	2.822	9.5	22.1
11 7	0 28.81	+27 9.1	1.955	2.830	11.4	20.2	11 7	0 27.03	- 1 17.8	1.989	2.827	12.8	22.3
<b>373430</b>	1999 <i>TP</i> <sub>61</sub>	10	6.8 339°81	2°1/ 8.1	18		<b>38604</b>	1999 <i>YJ</i> <sub>4</sub>	10	6.8 224°22	4°8/ 1.2	18	
8 29	1 18.91	+ 9 30.5	1.280	2.111	20.1	21.3	8 29	1 13.78	- 8 0.2	2.410	3.247	11.6	18.9
9 8	1 15.54	+10 1.8	1.204	2.105	16.2	21.0	9 8	1 9.80	- 8 57.8	2.335	3.242	9.1	18.7
9 18	1 8.97	+10 17.4	1.145	2.100	11.5	20.7	9 18	1 4.10	- 9 56.9	2.283	3.238	6.6	18.5
9 28	0 59.79	+10 17.5	1.107	2.095	6.3	20.4	9 28	0 57.16	-10 52.0	2.258	3.233	4.9	18.4
10 8	0 49.21	+10 5.0	1.093	2.091	2.1	20.1	10 8	0 49.62	-11 37.4	2.261	3.228	5.4	18.5
10 18	0 38.74	+ 9 45.1	1.105	2.087	6.2	20.4	10 18	0 42.22	-12 8.5	2.292	3.223	7.5	18.6
10 28	0 29.96	+ 9 25.2	1.140	2.084	11.5	20.7	10 28	0 35.69	-12 22.3	2.350	3.218	10.1	18.7
11 7	0 24.00	+ 9 12.4	1.197	2.082	16.3	21.0	11 7	0 30.63	-12 18.0	2.430	3.212	12.5	18.9
<b>195098</b>	2002 <i>CE</i> <sub>125</sub>	10	6.8 243°48	0°2/ 7.0	18		<b>28526</b>	2000 <i>DV</i> <sub>65</sub>	10	6.8 250°04	1°0/ 7.5	18	
8 29	1 14.99	+											



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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>443319</b>	2014 <i>FV</i> <sub>52</sub>	10	6.8 201°86	0°4/ 6.4 18			<b>268364</b>	2005 <i>TS</i> <sub>114</sub>	10	6.8 83°01	1°2/ 7.8 16		
8 29	1 16.30	+ 6 27.8	1.962	2.777	14.7	21.9	8 29	1 18.27	+11 20.1	1.564	2.375	18.0	21.0
9 8	1 12.21	+ 6 5.0	1.879	2.775	11.5	21.7	9 8	1 14.09	+10 59.6	1.503	2.394	14.3	20.8
9 18	1 5.98	+ 5 30.1	1.817	2.774	7.8	21.5	9 18	1 7.36	+10 20.9	1.461	2.412	9.9	20.6
9 28	0 58.14	+ 4 46.4	1.780	2.771	3.7	21.2	9 28	0 58.80	+ 9 26.9	1.442	2.430	5.1	20.4
10 8	0 49.50	+ 3 58.7	1.771	2.769	0.8	21.0	10 8	0 49.48	+ 8 23.5	1.450	2.449	1.2	20.1
10 18	0 40.99	+ 3 12.7	1.790	2.767	5.1	21.3	10 18	0 40.56	+ 7 18.3	1.485	2.467	5.2	20.4
10 28	0 33.58	+ 2 34.1	1.837	2.764	9.1	21.5	10 28	0 33.16	+ 6 19.3	1.547	2.484	9.6	20.8
11 7	0 28.00	+ 2 7.3	1.908	2.761	12.6	21.8	11 7	0 28.03	+ 5 32.9	1.633	2.502	13.5	21.0
<b>59289</b>	1999 <i>CA</i> <sub>55</sub>	10	6.8 308°70	1°1/ 6.1 18			<b>466244</b>	2013 <i>CY</i> <sub>102</sub>	10	6.8 349°96	2°5/ 2.1 18		
8 29	1 16.62	+ 4 7.1	1.434	2.275	17.8	19.0	8 29	1 6.45	- 5 50.9	4.202	5.029	7.2	21.3
9 8	1 13.51	+ 4 0.3	1.344	2.256	14.1	18.7	9 8	1 3.40	- 6 27.5	4.124	5.028	5.6	21.1
9 18	1 7.50	+ 3 41.2	1.273	2.237	9.7	18.4	9 18	0 59.45	- 7 5.2	4.071	5.028	3.9	21.0
9 28	0 59.11	+ 3 13.0	1.225	2.218	4.6	18.1	9 28	0 54.87	- 7 41.4	4.047	5.027	2.6	20.9
10 8	0 49.35	+ 2 41.4	1.202	2.200	1.6	17.8	10 8	0 50.00	- 8 13.4	4.052	5.027	2.8	20.9
10 18	0 39.54	+ 2 13.1	1.205	2.183	6.8	18.1	10 18	0 45.19	- 8 38.9	4.086	5.026	4.2	21.0
10 28	0 31.09	+ 1 55.0	1.232	2.165	12.0	18.4	10 28	0 40.82	- 8 56.0	4.149	5.026	5.9	21.2
11 7	0 25.13	+ 1 52.2	1.281	2.149	16.6	18.6	11 7	0 37.20	- 9 3.6	4.238	5.025	7.5	21.3
<b>312612</b>	2009 <i>SE</i> <sub>74</sub>	10	6.8 216°77	1°5/ 3.8 18			<b>295139</b>	2008 <i>FO</i> <sub>37</sub>	10	6.8 131°68	1°6/ 5.1 18		
8 29	1 6.54	- 1 25.6	4.473	5.290	7.0	20.9	8 29	1 14.19	+ 2 54.2	2.335	3.153	12.5	21.7
9 8	1 3.40	- 1 53.4	4.387	5.289	5.4	20.8	9 8	1 10.12	+ 2 16.7	2.259	3.160	9.7	21.5
9 18	0 59.41	- 2 23.8	4.328	5.287	3.6	20.6	9 18	1 4.32	+ 1 31.1	2.207	3.167	6.4	21.3
9 28	0 54.83	- 2 54.6	4.297	5.286	1.9	20.5	9 28	0 57.29	+ 0 41.2	2.182	3.174	3.1	21.1
10 8	0 49.96	- 3 23.5	4.296	5.284	1.8	20.5	10 8	0 49.68	- 0 8.2	2.185	3.180	1.9	21.0
10 18	0 45.15	- 3 48.4	4.325	5.283	3.3	20.6	10 18	0 42.26	- 0 52.2	2.217	3.186	5.0	21.3
10 28	0 40.75	- 4 7.4	4.383	5.281	5.1	20.7	10 28	0 35.76	- 1 26.4	2.277	3.192	8.3	21.5
11 7	0 37.05	- 4 19.0	4.469	5.279	6.7	20.9	11 7	0 30.75	- 1 48.0	2.363	3.198	11.2	21.7
<b>180911</b>	2005 <i>KN</i> <sub>11</sub>	10	6.8 104°30	5°6/12.2 18			<b>314394</b>	2005 <i>UT</i> <sub>181</sub>	10	6.8 239°26	1°4/ 5.3 18		
8 29	1 19.71	+22 46.9	1.724	2.473	18.9	20.4	8 29	1 13.77	+ 3 18.3	2.320	3.139	12.6	21.7
9 8	1 15.22	+22 58.1	1.654	2.492	15.9	20.2	9 8	1 9.92	+ 2 45.9	2.232	3.133	9.8	21.5
9 18	1 8.15	+22 44.8	1.602	2.510	12.3	20.1	9 18	1 4.28	+ 2 4.8	2.167	3.127	6.6	21.3
9 28	0 59.19	+22 5.9	1.572	2.528	8.7	19.9	9 28	0 57.31	+ 1 18.6	2.129	3.121	3.1	21.0
10 8	0 49.39	+21 3.8	1.567	2.545	5.9	19.8	10 8	0 49.68	+ 0 31.9	2.119	3.115	1.8	20.9
10 18	0 39.93	+19 44.5	1.590	2.562	6.2	19.8	10 18	0 42.14	- 0 10.4	2.138	3.109	5.0	21.1
10 28	0 31.97	+18 17.3	1.639	2.578	9.1	20.0	10 28	0 35.47	- 0 43.7	2.185	3.102	8.4	21.3
11 7	0 26.30	+16 52.0	1.714	2.594	12.4	20.3	11 7	0 30.30	- 1 4.8	2.257	3.096	11.5	21.5
<b>23732</b>	Choiseungjae	10	6.8 13°21	5°5/ 3.4 18 R			<b>399748</b>	2005 <i>GH</i> <sub>74</sub>	10	6.8 274°98	3°4/ 3.4 18		
8 29	1 13.79	- 2 51.0	1.028	1.908	20.4	17.7	8 29	1 15.26	- 0 28.5	1.991	2.824	13.8	20.9
9 8	1 11.73	- 3 36.7	0.977	1.911	15.9	17.4	9 8	1 11.60	- 1 25.6	1.889	2.799	10.8	20.7
9 18	1 6.34	- 4 30.6	0.944	1.916	10.9	17.2	9 18	1 5.76	- 2 32.5	1.809	2.772	7.4	20.4
9 28	0 58.46	- 5 23.1	0.931	1.922	6.4	17.0	9 28	0 58.16	- 3 43.9	1.756	2.745	4.2	20.2
10 8	0 49.49	- 6 3.5	0.941	1.929	6.2	17.0	10 8	0 49.55	- 4 52.8	1.730	2.718	4.0	20.1
10 18	0 41.00	- 6 23.3	0.973	1.938	10.3	17.2	10 18	0 40.88	- 5 51.8	1.732	2.690	7.3	20.3
10 28	0 34.48	- 6 17.4	1.026	1.948	15.1	17.5	10 28	0 33.15	- 6 34.8	1.760	2.661	11.1	20.4
11 7	0 30.85	- 5 45.8	1.098	1.959	19.3	17.8	11 7	0 27.19	- 6 58.0	1.812	2.633	14.6	20.6
<b>480611</b>	2015 <i>MF</i> <sub>107</sub>	10	6.8 193°77	6°1/13.2 18			<b>394602</b>	2007 <i>VP</i> <sub>259</sub>	10	6.8 188°45	3°6/ 2.9 18		
8 29	1 17.59	+25 4.0	2.161	2.880	16.3	21.6	8 29	1 15.34	- 2 46.4	2.235	3.066	12.6	21.5
9 8	1 13.34	+25 28.1	2.066	2.879	14.0	21.5	9 8	1 11.15	- 3 41.5	2.158	3.065	9.8	21.3
9 18	1 6.85	+25 31.8	1.990	2.877	11.3	21.3	9 18	1 5.10	- 4 42.0	2.104	3.064	6.7	21.2
9 28	0 58.62	+25 12.7	1.936	2.875	8.5	21.1	9 28	0 57.69	- 5 42.6	2.077	3.063	4.0	21.0
10 8	0 49.46	+24 31.4	1.908	2.872	6.4	21.0	10 8	0 49.65	- 6 37.2	2.078	3.061	4.1	21.0
10 18	0 40.37	+23 30.9	1.907	2.869	6.3	21.0	10 18	0 41.75	- 7 20.5	2.108	3.059	6.7	21.2
10 28	0 32.36	+22 17.8	1.934	2.866	8.4	21.1	10 28	0 34.82	- 7 48.5	2.165	3.056	9.8	21.3
11 7	0 26.24	+21 0.3	1.987	2.862	11.2	21.3	11 7	0 29.47	- 7 59.1	2.246	3.054	12.6	21.5
<b>449990</b>	2015 <i>PS</i> <sub>153</sub>	10	6.8 46°53	0°5/ 7.2 18			<b>22489</b>	Yanaka	10	6.8 34°86	0°2/ 7.0 18		
8 29	1 16.22	+ 8 13.6	1.755	2.572	16.1	20.9	8 29	1 10.13	+12 3.0	1.436	2.265	18.4	17.2
9 8	1 12.33	+ 8 7.3	1.683	2.579	12.7	20.7	9 8	1 7.97	+10 55.4	1.375	2.279	14.5	17.0
9 18	1 6.14	+ 7 47.7	1.631	2.586	8.7	20.5	9 18	1 3.34	+ 9 24.6	1.335	2.293	9.9	16.8
9 28	0 58.23	+ 7 17.3	1.604	2.594	4.3	20.3	9 28	0 56.93	+ 7 36.5	1.317	2.309	4.8	16.5
10 8	0 49.54	+ 6 40.4	1.603	2.602	0.6	20.0	10 8	0 49.76	+ 5 40.7	1.326	2.325	0.5	16.2
10 18	0 41.08	+ 6 2.8	1.630	2.610	4.9	20.4	10 18	0 42.96	+ 3 48.4	1.361	2.341	5.7	16.7
10 28	0 33.88	+ 5 30.2	1.684	2.619	9.2	20.6	10 28	0 37.57	+ 2 10.4	1.422	2.359	10.4	17.0
11 7	0 28.70	+ 5 7.6	1.761	2.627	12.9	20.9	11 7	0 34.33	+ 0 54.0	1.506	2.377	14.4	17.3
<b>2797</b>	Teucer	10	6.8 253°34	4°7/27.2 18			<b>353015</b>	2009 <i>BM</i> <sub>167</sub>	10	6.8 282°83	0°3/ 7.1 16		
8 29	1 8.80	-19 56.2	4.471	5.288	7.0	16.1	8 29	1 20.58	+ 6 22.6	1.889	2.697	15.4	21.6
9 8	1 5.17	-20 35.7	4.404	5.283	5.9	16.0	9 8	1 16.01	+ 6 35.4	1.782	2.674	12.3	21.3
9 18	1 0.61	-21 11.0	4.362	5.277	5.0	15.9	9 18	1 8.92	+ 6 38.5	1.697	2.650	8.6	21.1
9 28	0 55.41	-21 39.1	4.347	5.271	4.7	15.9	9 28	0 59.76	+ 6 33.2	1.636	2.626	4.3	20.7
10 8	0 49.92	-21 57.5	4.360	5.264	5.1	15.9	10 8	0 49.36	+ 6 22.3	1.603	2.602	0.6	20.4
10 18	0 44.51	-22 4.2	4.401	5.258	6.0	16.0	10 18	0 38.82	+ 6 9.7	1.598	2.578	5.2	20.7
10 28	0 39.57	-21 58.5	4.467	5.252	7.2	16.1	10 28	0 29.31	+ 6 0.4	1.622	2.553	9.7	20.9
11 7	0 35.40	-21 40.2	4.555	5.246	8.3	16.2	11 7	0 21.82	+ 5 58.7	1.669	2.528	13.8	21.1
<b>41412</b>	2000 <i>AO</i> <sub>200</sub>	10	6.8 100°33	7°6/28.8 18			<b>186643</b>	2003 <i>MS</i> <sub>7</sub>	10	6.8 67°04	0°9/ 7.8 18		
8 29	1 14.86	-11 34.1	1.824	2.674	14.2	18.5							

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>481615</b>	2007 <i>UN</i> <sub>5</sub>	10	6.8 305°74	1.2°/ 5.8 18			<b>511573</b>	2014 <i>WB</i> <sub>480</sub>	10	6.9 127°16	4.2°/10.5 18		
8 29	1 12.89	+ 5 31.9	1.661	2.496	16.1	21.4	8 29	1 17.68	+18 19.4	1.594	2.375	18.9	21.2
9 8	1 10.22	+ 4 58.7	1.562	2.471	12.7	21.1	9 8	1 13.94	+18 23.0	1.516	2.381	15.6	20.9
9 18	1 5.09	+ 4 10.4	1.483	2.445	8.7	20.8	9 18	1 7.52	+18 3.4	1.457	2.386	11.7	20.7
9 28	0 57.94	+ 3 10.7	1.427	2.420	4.1	20.5	9 28	0 59.04	+17 20.4	1.419	2.391	7.6	20.5
10 8	0 49.62	+ 2 5.9	1.398	2.395	1.7	20.2	10 8	0 49.54	+16 17.2	1.407	2.396	4.4	20.3
10 18	0 41.21	+ 1 3.9	1.395	2.371	6.3	20.5	10 18	0 40.26	+15 0.4	1.421	2.401	5.6	20.4
10 28	0 33.89	+ 0 12.6	1.418	2.347	11.1	20.7	10 28	0 32.44	+13 39.7	1.462	2.405	9.6	20.7
11 7	0 28.64	- 0 21.8	1.463	2.323	15.4	20.9	11 7	0 26.95	+12 24.6	1.527	2.409	13.5	20.9
<b>68080</b>	2000 <i>YO</i> <sub>96</sub>	10	6.9 348°05	4.2°/ 3.4 18			<b>156251</b>	2001 <i>UN</i> <sub>201</sub>	10	6.9 245°00	0°9/ 7.6 18		
8 29	1 11.37	- 0 21.0	1.365	2.228	17.3	19.1	8 29	1 16.81	+10 22.2	1.866	2.669	15.7	20.7
9 8	1 9.24	- 1 21.3	1.296	2.222	13.5	18.9	9 8	1 12.94	+10 4.9	1.770	2.658	12.6	20.5
9 18	1 4.43	- 2 33.0	1.247	2.216	9.1	18.6	9 18	1 6.72	+ 9 31.8	1.695	2.646	8.8	20.3
9 28	0 57.57	- 3 48.6	1.220	2.211	5.1	18.4	9 28	0 58.66	+ 8 44.8	1.645	2.633	4.6	20.0
10 8	0 49.69	- 4 58.0	1.218	2.207	4.9	18.4	10 8	0 49.59	+ 7 48.3	1.622	2.621	0.9	19.7
10 18	0 42.02	- 5 52.0	1.241	2.204	8.8	18.6	10 18	0 40.54	+ 6 48.3	1.627	2.607	4.9	20.0
10 28	0 35.77	- 6 23.7	1.287	2.202	13.2	18.8	10 28	0 32.59	+ 5 52.2	1.659	2.594	9.3	20.2
11 7	0 31.85	- 6 30.2	1.353	2.200	17.1	19.1	11 7	0 26.60	+ 5 6.3	1.716	2.580	13.3	20.4
<b>367698</b>	2010 <i>RP</i> <sub>130</sub>	10	6.9 64°75	4°9/10.5 17			<b>196408</b>	2003 <i>GW</i> <sub>47</sub>	10	6.9 37°15	2°0/ 3.0 18		
8 29	1 19.28	+17 52.2	1.283	2.083	21.7	20.3	8 29	1 7.54	- 4 14.8	4.290	5.112	7.2	19.6
9 8	1 15.64	+18 13.8	1.222	2.097	17.9	20.1	9 8	1 4.23	- 4 40.7	4.210	5.113	5.5	19.5
9 18	1 8.85	+18 9.7	1.177	2.112	13.4	19.9	9 18	1 0.03	- 5 8.1	4.156	5.114	3.8	19.4
9 28	0 59.68	+17 39.1	1.154	2.127	8.7	19.6	9 28	0 55.20	- 5 34.6	4.131	5.115	2.3	19.3
10 8	0 49.43	+16 45.3	1.153	2.143	5.1	19.5	10 8	0 50.08	- 5 57.9	4.135	5.117	2.3	19.3
10 18	0 39.61	+15 36.2	1.178	2.158	6.4	19.6	10 18	0 45.04	- 6 15.9	4.169	5.118	3.8	19.4
10 28	0 31.65	+14 22.5	1.227	2.173	10.7	19.9	10 28	0 40.43	- 6 26.8	4.232	5.119	5.5	19.5
11 7	0 26.49	+13 15.2	1.299	2.189	14.9	20.2	11 7	0 36.57	- 6 29.4	4.321	5.121	7.1	19.6
<b>310252</b>	2011 <i>UV</i> <sub>20</sub>	10	6.9 84°02	0°1/ 7.0 18			<b>315988</b>	2009 <i>DR</i> <sub>31</sub>	10	6.9 309°64	3°9/ 9.2 18		
8 29	1 12.86	+11 10.2	1.875	2.683	15.5	20.7	8 29	1 20.47	+13 18.3	1.306	2.120	20.7	20.4
9 8	1 9.53	+10 9.8	1.804	2.696	12.2	20.5	9 8	1 16.91	+13 59.7	1.226	2.114	17.0	20.2
9 18	1 4.14	+ 8 51.6	1.754	2.708	8.3	20.3	9 18	1 10.05	+14 22.9	1.162	2.107	12.5	19.9
9 28	0 57.27	+ 7 19.8	1.730	2.720	4.0	20.0	9 28	1 0.48	+14 26.0	1.120	2.101	7.6	19.6
10 8	0 49.75	+ 5 41.6	1.733	2.732	0.5	19.8	10 8	0 49.38	+14 10.5	1.102	2.095	4.0	19.4
10 18	0 42.49	+ 4 5.1	1.765	2.744	4.8	20.1	10 18	0 38.32	+13 41.0	1.108	2.089	6.5	19.5
10 28	0 36.39	+ 2 38.5	1.826	2.756	8.9	20.4	10 28	0 28.93	+13 5.7	1.139	2.084	11.4	19.8
11 7	0 32.08	+ 1 27.9	1.911	2.768	12.4	20.7	11 7	0 22.42	+12 33.7	1.192	2.079	16.1	20.0
<b>362365</b>	2010 <i>NL</i> <sub>24</sub>	10	6.9 270°26	1°5/ 8.6 18			<b>186703</b>	2004 <i>BO</i> <sub>54</sub>	10	6.9 237°54	0°6/ 7.4 18		
8 29	1 11.79	+14 0.8	2.149	2.939	14.4	21.1	8 29	1 18.65	+ 9 24.7	1.792	2.599	16.2	20.7
9 8	1 8.63	+13 28.1	2.056	2.933	11.6	20.9	9 8	1 14.50	+ 9 10.8	1.698	2.587	13.0	20.5
9 18	1 3.55	+12 38.0	1.984	2.927	8.3	20.7	9 18	1 7.86	+ 8 41.5	1.624	2.575	9.0	20.2
9 28	0 57.03	+11 32.6	1.937	2.921	4.6	20.5	9 28	0 59.25	+ 7 59.0	1.574	2.563	4.6	19.9
10 8	0 49.78	+10 16.1	1.918	2.915	1.6	20.2	10 8	0 49.55	+ 7 7.5	1.551	2.550	0.7	19.6
10 18	0 42.62	+ 8 54.7	1.928	2.909	4.1	20.4	10 18	0 39.87	+ 6 13.3	1.557	2.537	5.2	19.9
10 28	0 36.39	+ 7 35.6	1.966	2.903	7.9	20.6	10 28	0 31.36	+ 5 23.5	1.590	2.523	9.8	20.2
11 7	0 31.77	+ 6 25.5	2.030	2.897	11.3	20.8	11 7	0 24.93	+ 4 44.6	1.647	2.509	13.8	20.4
<b>19967</b>	1987 <i>SN</i> <sub>12</sub>	10	6.9 27°24	1°0/ 6.1 18			<b>215540</b>	2002 <i>WL</i> <sub>13</sub>	10	6.9 305°56	8°8/28.3 18		
8 29	1 13.19	+ 6 7.3	1.211	2.065	19.6	17.0	8 29	1 15.46	-15 22.2	1.764	2.614	14.6	20.0
9 8	1 10.75	+ 5 38.4	1.159	2.078	15.3	16.8	9 8	1 11.94	-16 42.7	1.694	2.600	12.0	19.8
9 18	1 5.43	+ 4 52.7	1.125	2.092	10.3	16.5	9 18	1 6.04	-18 0.3	1.645	2.586	9.8	19.7
9 28	0 57.99	+ 3 55.9	1.113	2.107	4.8	16.3	9 28	0 58.31	-19 5.2	1.621	2.572	8.8	19.6
10 8	0 49.68	+ 2 56.3	1.125	2.124	1.5	16.1	10 8	0 49.68	-19 49.0	1.621	2.559	9.8	19.6
10 18	0 41.83	+ 2 2.8	1.162	2.141	6.7	16.5	10 18	0 41.21	-20 5.5	1.646	2.545	12.0	19.7
10 28	0 35.69	+ 1 23.5	1.222	2.159	11.7	16.8	10 28	0 33.97	-19 52.3	1.693	2.532	14.8	19.9
11 7	0 32.07	+ 1 3.1	1.304	2.178	15.9	17.1	11 7	0 28.78	-19 10.8	1.760	2.519	17.4	20.0
<b>135972</b>	2002 <i>TH</i> <sub>287</sub>	10	6.9 31°85	2°2/ 8.7 18			<b>39539</b>	Emmadesmet	10	6.9 233°09	0°2/ 6.7 18		
8 29	1 16.18	+12 23.8	1.800	2.600	16.4	19.3	8 29	1 15.90	+ 6 3.3	2.430	3.233	12.5	18.5
9 8	1 12.38	+12 31.5	1.721	2.603	13.2	19.1	9 8	1 11.54	+ 5 55.5	2.338	3.228	9.9	18.3
9 18	1 6.26	+12 23.6	1.662	2.607	9.4	18.9	9 18	1 5.40	+ 5 39.0	2.268	3.222	6.7	18.1
9 28	0 58.38	+12 0.9	1.627	2.611	5.4	18.7	9 28	0 57.91	+ 5 15.8	2.226	3.216	3.2	17.9
10 8	0 49.63	+11 26.7	1.619	2.615	2.2	18.5	10 8	0 49.74	+ 4 49.3	2.211	3.210	0.5	17.7
10 18	0 41.05	+10 46.0	1.637	2.619	4.7	18.7	10 18	0 41.65	+ 4 23.2	2.227	3.204	4.2	17.9
10 28	0 33.68	+10 5.2	1.683	2.623	8.8	18.9	10 28	0 34.40	+ 4 1.6	2.271	3.198	7.6	18.2
11 7	0 28.32	+ 9 30.4	1.753	2.628	12.5	19.2	11 7	0 28.64	+ 3 47.8	2.341	3.191	10.7	18.3
<b>391946</b>	2008 <i>VG</i> <sub>71</sub>	10	6.9 315°74	0°9/ 7.3 18			<b>430493</b>	2001 <i>TA</i> <sub>208</sub>	10	6.9 28°55	0°9/ 6.3 16		
8 29	1 21.57	+ 5 54.9	1.507	2.331	17.9	20.4	8 29	1 15.42	+ 5 34.3	1.158	2.013	20.3	20.9
9 8	1 17.36	+ 6 31.6	1.415	2.315	14.4	20.1	9 8	1 12.66	+ 5 19.6	1.106	2.025	15.9	20.7
9 18	1 10.15	+ 6 59.3	1.342	2.299	10.1	19.8	9 18	1 6.82	+ 4 49.0	1.071	2.038	10.7	20.5
9 28	1 0.46	+ 7 18.5	1.293	2.283	5.1	19.5	9 28	0 58.72	+ 4 7.4	1.058	2.052	5.0	20.2
10 8	0 49.33	+ 7 31.5	1.270	2.269	0.9	19.1	10 8	0 49.65	+ 3 22.5	1.068	2.066	1.4	20.0
10 18	0 38.12	+ 7 41.4	1.273	2.254	5.9	19.5	10 18	0 41.07	+ 2 42.5	1.102	2.082	6.8	20.4
10 28	0 28.29	+ 7 52.7	1.302	2.240	11.0	19.7	10 28	0 34.32	+ 2 15.1	1.160	2.099	12.0	20.8
11 7	0 21.00	+ 8 10.0	1.354	2.227	15.5	19.9	11 7	0 30.28	+ 2 5.0	1.239	2.116	16.4	21.1
<b>480283</b>	2015 <i>HC</i> <sub>114</sub>	10	6.9 1°90	16°0/25.7 18			<b>131139</b>	2001 <i>BE</i> <sub>52</sub>	10	6.9 88°39	2°3/ 4.7 18		
8 29	1 14.27	-24 56.8											

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>90411</b>	2003 <i>YH</i> <sub>85</sub>	10	6.9 344°86	8°3/30.9	18		<b>472650</b>	2015 <i>DV</i> <sub>213</sub>	10	6.9 107°06	1°6/ 8.5	16	
8 29	1 10.88	- 6 45.7	1.054	1.941	19.4	18.6	8 29	1 20.69	+12 20.1	2.128	2.907	14.8	21.4
9 8	1 9.64	- 8 8.5	0.994	1.930	15.4	18.4	9 8	1 15.29	+12 11.7	2.062	2.933	11.8	21.2
9 18	1 5.14	- 9 38.2	0.952	1.921	11.3	18.1	9 18	1 7.88	+11 49.1	2.017	2.957	8.3	21.1
9 28	0 58.08	-11 2.0	0.931	1.913	8.5	17.9	9 28	0 59.07	+11 14.1	1.998	2.981	4.5	20.9
10 8	0 49.74	-12 6.2	0.931	1.906	9.3	18.0	10 8	0 49.69	+10 30.4	2.008	3.005	1.6	20.7
10 18	0 41.65	-12 40.0	0.953	1.901	13.0	18.2	10 18	0 40.64	+ 9 42.8	2.047	3.027	4.1	20.9
10 28	0 35.37	-12 37.9	0.994	1.897	17.4	18.4	10 28	0 32.78	+ 8 56.9	2.116	3.049	7.7	21.2
11 7	0 31.93	-12 0.9	1.053	1.894	21.4	18.6	11 7	0 26.75	+ 8 17.9	2.210	3.070	10.8	21.4
<b>103655</b>	2000 <i>CC</i> <sub>41</sub>	10	6.9 120°52	3°6/ 3.6	18		<b>322073</b>	2010 <i>VW</i> <sub>111</sub>	10	6.9 302°72	0°0/ 6.7	18	
8 29	1 16.23	+ 0 31.1	1.628	2.469	16.0	20.6	8 29	1 10.16	+10 19.4	2.016	2.828	14.4	20.5
9 8	1 12.49	- 0 37.6	1.562	2.476	12.4	20.4	9 8	1 7.65	+ 9 25.8	1.909	2.803	11.5	20.2
9 18	1 6.34	- 1 56.9	1.518	2.483	8.3	20.2	9 18	1 3.11	+ 8 13.9	1.823	2.778	7.9	20.0
9 28	0 58.43	- 3 19.5	1.499	2.489	4.5	20.0	9 28	0 56.97	+ 6 46.5	1.762	2.753	3.9	19.7
10 8	0 49.72	- 4 36.7	1.507	2.496	4.2	20.0	10 8	0 49.93	+ 5 9.6	1.729	2.728	0.5	19.4
10 18	0 41.30	- 5 40.2	1.541	2.502	7.7	20.2	10 18	0 42.84	+ 3 30.9	1.724	2.703	5.0	19.7
10 28	0 34.23	- 6 23.9	1.602	2.507	11.7	20.4	10 28	0 36.63	+ 1 59.1	1.747	2.678	9.2	19.9
11 7	0 29.27	- 6 45.0	1.684	2.513	15.2	20.7	11 7	0 32.08	+ 0 41.5	1.795	2.653	13.0	20.1
<b>273608</b>	2007 <i>DF</i>	10	6.9 258°02	3°3/ 4.1	18		<b>327682</b>	2006 <i>RP</i> <sub>44</sub>	10	6.9 160°52	0°8/ 6.2	17	
8 29	1 18.19	- 0 22.5	1.779	2.613	15.2	21.0	8 29	1 20.04	+ 5 33.9	1.666	2.486	16.6	21.3
9 8	1 14.13	- 1 5.9	1.687	2.596	11.9	20.7	9 8	1 15.53	+ 5 12.6	1.590	2.490	13.1	21.1
9 18	1 7.62	- 1 58.6	1.616	2.579	8.1	20.5	9 18	1 8.48	+ 4 38.5	1.535	2.494	8.8	20.8
9 28	0 59.15	- 2 55.0	1.571	2.561	4.4	20.2	9 28	0 59.52	+ 3 55.4	1.504	2.497	4.2	20.5
10 8	0 49.61	- 3 48.3	1.552	2.542	3.8	20.1	10 8	0 49.63	+ 3 8.9	1.501	2.499	1.2	20.3
10 18	0 40.08	- 4 31.2	1.561	2.524	7.4	20.3	10 18	0 39.97	+ 2 25.6	1.525	2.501	5.8	20.7
10 28	0 31.69	- 4 58.0	1.596	2.505	11.6	20.5	10 28	0 31.69	+ 1 51.8	1.576	2.503	10.3	20.9
11 7	0 25.35	- 5 5.4	1.654	2.485	15.3	20.7	11 7	0 25.61	+ 1 32.1	1.650	2.505	14.2	21.2
<b>296624</b>	2009 <i>SP</i> <sub>50</sub>	10	6.9 162°61	4°4/10.6	18		<b>263814</b>	2008 <i>RS</i> <sub>122</sub>	10	6.9 320°19	1°4/ 4.1	18	
8 29	1 18.92	+18 12.4	1.690	2.465	18.3	20.6	8 29	1 5.79	+ 0 19.7	4.298	5.114	7.3	20.1
9 8	1 14.85	+18 30.3	1.608	2.468	15.1	20.4	9 8	1 2.93	- 0 17.3	4.212	5.113	5.6	20.0
9 18	1 8.15	+18 27.4	1.544	2.470	11.5	20.2	9 18	0 59.21	- 0 57.9	4.151	5.111	3.7	19.9
9 28	0 59.40	+18 2.7	1.502	2.471	7.6	20.0	9 28	0 54.87	- 1 39.9	4.119	5.109	1.9	19.7
10 8	0 49.59	+17 18.2	1.486	2.473	4.6	19.8	10 8	0 50.23	- 2 20.5	4.117	5.108	1.6	19.7
10 18	0 39.93	+16 19.1	1.496	2.474	5.7	19.9	10 18	0 45.65	- 2 57.4	4.145	5.106	3.3	19.9
10 28	0 31.62	+15 13.7	1.534	2.475	9.4	20.1	10 28	0 41.48	- 3 28.3	4.202	5.104	5.2	20.0
11 7	0 25.60	+14 10.7	1.596	2.476	13.2	20.4	11 7	0 38.03	- 3 51.4	4.287	5.103	6.9	20.1
<b>299127</b>	2005 <i>EF</i> <sub>213</sub>	10	6.9 55°12	1°2/ 5.7	18		<b>490336</b>	2009 <i>CC</i> <sub>35</sub>	10	6.9 307°08	2°1/ 5.2	18	
8 29	1 13.52	+ 5 55.4	1.762	2.591	15.5	20.7	8 29	1 15.16	+ 2 21.1	1.630	2.470	16.1	22.0
9 8	1 10.24	+ 5 8.0	1.691	2.597	12.1	20.5	9 8	1 11.98	+ 1 54.2	1.541	2.453	12.6	21.7
9 18	1 4.76	+ 4 6.8	1.641	2.602	8.1	20.3	9 18	1 6.28	+ 1 16.2	1.473	2.437	8.6	21.5
9 28	0 57.67	+ 2 56.6	1.615	2.608	3.8	20.1	9 28	0 58.57	+ 0 31.6	1.429	2.421	4.2	21.2
10 8	0 49.82	+ 1 44.4	1.617	2.614	1.6	19.9	10 8	0 49.76	- 0 13.1	1.410	2.406	2.6	21.0
10 18	0 42.21	+ 0 37.6	1.646	2.621	5.7	20.2	10 18	0 40.97	- 0 51.2	1.418	2.391	6.8	21.3
10 28	0 35.79	- 0 17.1	1.702	2.627	9.8	20.5	10 28	0 33.38	- 1 16.3	1.452	2.376	11.3	21.5
11 7	0 31.28	- 0 54.9	1.781	2.633	13.4	20.7	11 7	0 27.92	- 1 24.3	1.508	2.361	15.3	21.7
<b>73295</b>	2002 <i>JM</i> <sub>67</sub>	10	6.9 67°84	2°5/10.1	18		<b>103219</b>	1999 <i>YX</i> <sub>3</sub>	10	6.9 304°06	3°0/ 8.5	18	
8 29	1 12.01	+18 14.5	2.230	2.997	14.6	18.4	8 29	1 25.89	+ 9 54.0	1.723	2.516	17.3	19.1
9 8	1 8.57	+17 35.4	2.158	3.016	11.9	18.3	9 8	1 20.54	+10 57.1	1.624	2.501	14.1	18.8
9 18	1 3.36	+16 37.4	2.107	3.036	8.7	18.1	9 18	1 12.27	+11 51.5	1.545	2.486	10.3	18.6
9 28	0 56.90	+15 22.7	2.081	3.056	5.3	18.0	9 28	1 1.56	+12 35.4	1.490	2.472	6.0	18.3
10 8	0 49.93	+13 55.8	2.083	3.075	2.6	17.8	10 8	0 49.38	+13 8.4	1.463	2.457	3.0	18.1
10 18	0 43.21	+12 23.0	2.114	3.095	3.9	17.9	10 18	0 37.03	+13 31.5	1.465	2.443	5.7	18.2
10 28	0 37.49	+10 51.5	2.174	3.115	7.1	18.2	10 28	0 25.94	+13 48.2	1.494	2.430	10.1	18.4
11 7	0 33.34	+ 9 28.2	2.262	3.134	10.1	18.4	11 7	0 17.24	+14 3.3	1.548	2.416	14.2	18.7
<b>318469</b>	2005 <i>EK</i> <sub>50</sub>	10	6.9 190°53	3°2/ 9.5	17		<b>268211</b>	2005 <i>BL</i> <sub>48</sub>	10	6.9 271°34	2°1/ 4.4	17	
8 29	1 19.19	+15 32.8	1.682	2.469	17.9	21.6	8 29	1 12.19	+ 1 26.6	2.537	3.359	11.5	21.9
9 8	1 15.06	+15 36.0	1.597	2.468	14.6	21.4	9 8	1 8.67	+ 0 41.6	2.437	3.341	9.0	21.7
9 18	1 8.30	+15 19.3	1.531	2.467	10.8	21.2	9 18	1 3.49	- 0 11.3	2.362	3.323	6.0	21.4
9 28	0 59.48	+14 42.8	1.488	2.466	6.5	20.9	9 28	0 57.06	- 1 8.3	2.313	3.304	3.1	21.2
10 8	0 49.59	+13 49.6	1.471	2.464	3.3	20.7	10 8	0 49.97	- 2 4.5	2.293	3.286	2.4	21.2
10 18	0 39.83	+12 45.8	1.481	2.462	5.3	20.8	10 18	0 42.88	- 2 55.0	2.303	3.267	5.3	21.3
10 28	0 31.41	+11 39.7	1.518	2.459	9.5	21.1	10 28	0 36.53	- 3 35.2	2.340	3.248	8.4	21.5
11 7	0 25.25	+10 39.8	1.580	2.456	13.5	21.3	11 7	0 31.51	- 4 1.8	2.403	3.229	11.3	21.6
<b>247285</b>	2001 <i>SC</i> <sub>205</sub>	10	6.9 48°78	0°8/ 7.5	18		<b>487432</b>	2014 <i>RU</i> <sub>8</sub>	10	6.9 18°21	4°6/ 1.8	17	
8 29	1 19.68	+ 7 38.7	1.843	2.651	15.7	19.8	8 29	1 11.60	- 4 59.0	2.068	2.913	12.9	21.5
9 8	1 15.00	+ 7 55.3	1.767	2.658	12.5	19.6	9 8	1 8.42	- 6 6.2	2.001	2.916	10.0	21.3
9 18	1 7.98	+ 8 0.9	1.713	2.665	8.6	19.4	9 18	1 3.38	- 7 17.6	1.958	2.919	7.0	21.1
9 28	0 59.22	+ 7 57.1	1.683	2.671	4.4	19.2	9 28	0 57.00	- 8 26.6	1.940	2.922	4.8	21.0
10 8	0 49.63	+ 7 46.7	1.680	2.679	0.9	18.9	10 8	0 50.00	- 9 26.5	1.950	2.925	5.2	21.0
10 18	0 40.25	+ 7 33.7	1.705	2.686	4.8	19.2	10 18	0 43.19	-10 11.6	1.987	2.929	7.7	21.2
10 28	0 32.13	+ 7 22.9	1.758	2.693	8.9	19.5	10 28	0 37.37	-10 37.9	2.049	2.933	10.6	21.4
11 7	0 26.03	+ 7 18.3	1.836	2.701	12.5	19.7	11 7	0 33.16	-10 44.2	2.134	2.937	13.3	21.6
<b>94075</b>	2000 <i>YZ</i> <sub>40</sub>	10	6.9 302°44	0°9/ 5.9	18		<b>166638</b>	2002 <i>SJ</i> <sub>46</sub>	10	6.9 152°67	0°5/ 7.5	18	
8 29	1 12.96	+											

EPHEMERIDES

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>97126</b>	1999 VR <sub>105</sub>	10 6.9	72°51'	2°9/10.2	18		<b>378048</b>	2006 TD <sub>33</sub>	10 6.9	159°67'	2°4/5.0	17	
8 29	1 12.64	+17 26.4	2.230	3.000	14.5	19.8	8 29	1 22.74	+0 29.4	1.791	2.614	15.6	21.6
9 8	1 9.21	+17 12.4	2.147	3.006	11.9	19.7	9 8	1 17.42	+0 7.3	1.717	2.619	12.1	21.4
9 18	1 3.92	+16 40.8	2.084	3.012	8.8	19.5	9 18	1 9.66	-0 22.3	1.665	2.624	8.2	21.2
9 28	0 57.27	+15 52.8	2.046	3.019	5.5	19.3	9 28	1 0.09	-0 54.9	1.638	2.629	4.1	20.9
10 8	0 49.97	+14 51.6	2.035	3.025	3.0	19.2	10 8	0 49.68	-1 24.8	1.639	2.633	2.8	20.9
10 18	0 42.82	+13 42.1	2.052	3.032	4.1	19.2	10 18	0 39.52	-1 46.8	1.668	2.636	6.5	21.1
10 28	0 36.64	+12 31.0	2.098	3.038	7.3	19.5	10 28	0 30.71	-1 56.5	1.724	2.639	10.5	21.4
11 7	0 32.05	+11 24.7	2.170	3.045	10.4	19.7	11 7	0 24.04	-1 51.4	1.805	2.641	14.0	21.6
<b>160528</b>	1996 RD <sub>32</sub>	10 6.9	8°44'	0°8/5.5	18		<b>211038</b>	2002 CW <sub>10</sub>	10 6.9	166°21'	11°8/28.8	18	
8 29	1 7.47	+2 59.1	3.874	4.683	8.1	19.3	8 29	1 32.94	-25 34.1	1.756	2.562	16.5	20.4
9 8	1 4.33	+2 37.5	3.788	4.684	6.3	19.1	9 8	1 25.42	-26 35.5	1.704	2.566	14.3	20.2
9 18	1 0.20	+2 11.3	3.728	4.685	4.2	19.0	9 18	1 15.01	-27 22.3	1.673	2.570	12.5	20.1
9 28	0 55.37	+1 42.5	3.695	4.686	2.0	18.8	9 28	1 2.57	-27 44.2	1.666	2.574	11.8	20.1
10 8	0 50.21	+1 13.6	3.691	4.688	1.0	18.7	10 8	0 49.39	-27 34.0	1.683	2.576	12.3	20.1
10 18	0 45.12	+0 47.0	3.718	4.689	3.1	18.9	10 18	0 36.85	-26 49.3	1.725	2.579	14.0	20.2
10 28	0 40.50	+0 25.1	3.775	4.691	5.2	19.1	10 28	0 26.20	-25 32.5	1.790	2.580	16.1	20.4
11 7	0 36.70	+0 9.8	3.858	4.693	7.2	19.2	11 7	0 18.26	-23 49.6	1.875	2.581	18.2	20.6
<b>119968</b>	2002 UF	10 6.9	243°82'	0°9/7.7	18		<b>452974</b>	2007 EH <sub>15</sub>	10 6.9	37°87'	3°0/3.7	18	
8 29	1 15.84	+11 25.6	1.756	2.563	16.5	20.7	8 29	1 11.37	+1 6.9	1.880	2.721	14.2	20.6
9 8	1 12.36	+10 55.0	1.663	2.552	13.2	20.4	9 8	1 8.40	-0 0.6	1.816	2.730	10.9	20.4
9 18	1 6.45	+10 5.5	1.591	2.541	9.3	20.2	9 18	1 3.44	-1 17.4	1.775	2.740	7.3	20.2
9 28	0 58.64	+8 59.6	1.542	2.530	4.8	19.9	9 28	0 57.06	-2 37.4	1.759	2.750	3.9	20.0
10 8	0 49.79	+7 42.6	1.520	2.519	0.9	19.6	10 8	0 50.06	-3 53.0	1.771	2.760	3.5	20.0
10 18	0 40.99	+6 22.0	1.526	2.507	5.1	19.8	10 18	0 43.29	-4 57.3	1.810	2.771	6.7	20.2
10 28	0 33.36	+5 6.6	1.559	2.495	9.7	20.1	10 28	0 37.62	-5 44.8	1.875	2.782	10.2	20.4
11 7	0 27.76	+4 4.0	1.616	2.482	13.8	20.3	11 7	0 33.66	-6 12.6	1.963	2.793	13.3	20.7
<b>476612</b>	2008 SK <sub>137</sub>	10 6.9	6°46'	2°7/9.0	16		<b>514977</b>	2009 DJ <sub>25</sub>	10 6.9	160°23'	1°5/5.2	18	
8 29	1 10.77	+13 50.5	1.250	2.082	20.4	21.3	8 29	1 15.65	+3 33.7	2.330	3.144	12.7	23.0
9 8	1 9.14	+13 48.3	1.182	2.082	16.6	21.0	9 8	1 11.35	+2 52.9	2.251	3.149	9.8	22.8
9 18	1 4.60	+13 22.1	1.131	2.084	11.9	20.8	9 18	1 5.28	+2 3.3	2.196	3.154	6.6	22.6
9 28	0 57.81	+12 33.3	1.101	2.086	6.8	20.5	9 28	0 57.91	+1 8.6	2.167	3.159	3.1	22.4
10 8	0 49.91	+11 27.4	1.093	2.090	2.7	20.3	10 8	0 49.95	+0 13.8	2.167	3.163	1.8	22.3
10 18	0 42.24	+10 13.3	1.111	2.095	5.8	20.5	10 18	0 42.16	-0 35.8	2.197	3.166	5.0	22.5
10 28	0 36.16	+9 1.9	1.152	2.101	10.8	20.8	10 28	0 35.29	-1 15.7	2.255	3.169	8.3	22.7
11 7	0 32.61	+8 2.8	1.214	2.108	15.4	21.1	11 7	0 29.94	-1 42.7	2.338	3.172	11.3	22.9
<b>429980</b>	2013 MM <sub>4</sub>	10 6.9	13°75'	3°7/4.5	17		<b>127140</b>	2002 GT <sub>113</sub>	10 6.9	91°56'	3°4/3.7	18	
8 29	1 8.66	+2 15.6	0.861	1.753	22.2	19.9	8 29	1 16.52	-0 14.8	1.782	2.619	15.0	19.8
9 8	1 8.22	+1 29.8	0.817	1.758	17.3	19.6	9 8	1 12.44	-1 15.5	1.723	2.634	11.6	19.6
9 18	1 4.27	+0 27.1	0.789	1.765	11.5	19.3	9 18	1 6.17	-2 24.1	1.687	2.650	7.8	19.4
9 28	0 57.68	-0 42.8	0.780	1.775	5.7	19.1	9 28	0 58.37	-3 34.3	1.675	2.665	4.3	19.2
10 8	0 49.95	-1 47.3	0.791	1.786	4.3	19.0	10 8	0 49.92	-4 38.4	1.691	2.680	3.9	19.2
10 18	0 42.73	-2 35.0	0.823	1.799	9.5	19.4	10 18	0 41.81	-5 30.0	1.735	2.694	7.1	19.5
10 28	0 37.59	-2 57.5	0.876	1.814	14.9	19.7	10 28	0 34.97	-6 4.0	1.805	2.709	10.7	19.7
11 7	0 35.43	-2 52.2	0.946	1.831	19.5	20.1	11 7	0 30.07	-6 18.4	1.898	2.723	13.9	20.0
<b>261942</b>	2006 OB <sub>11</sub>	10 6.9	35°19'	3°1/8.9	18		<b>432313</b>	2009 TJ <sub>20</sub>	10 6.9	13°52'	3°4/4.9	18	
8 29	1 17.61	+12 44.3	1.126	1.959	22.2	20.2	8 29	1 18.79	-0 54.2	1.223	2.081	19.2	20.0
9 8	1 14.67	+13 5.3	1.070	1.971	17.9	20.0	9 8	1 15.34	-1 7.4	1.162	2.084	15.0	19.8
9 18	1 8.40	+13 3.6	1.031	1.983	12.8	19.7	9 18	1 8.76	-1 28.5	1.119	2.087	10.2	19.5
9 28	0 59.62	+12 40.0	1.011	1.997	7.3	19.5	9 28	0 59.80	-1 51.5	1.098	2.090	5.3	19.2
10 8	0 49.71	+11 59.1	1.015	2.011	3.1	19.3	10 8	0 49.74	-2 9.0	1.101	2.095	3.9	19.2
10 18	0 40.25	+11 9.0	1.042	2.026	6.2	19.5	10 18	0 40.05	-2 14.8	1.129	2.101	8.2	19.4
10 28	0 32.76	+10 19.9	1.093	2.041	11.4	19.8	10 28	0 32.16	-2 4.1	1.180	2.107	13.0	19.7
11 7	0 28.22	+9 40.5	1.165	2.058	16.0	20.2	11 7	0 27.02	-1 35.4	1.252	2.114	17.3	20.0
<b>138932</b>	2001 BB <sub>8</sub>	10 6.9	143°66'	6°3/16.4	18		<b>490991</b>	2011 FU <sub>108</sub>	10 6.9	241°33'	1°3/8.0	18	
8 29	1 18.56	+32 14.1	3.226	3.860	12.8	20.4	8 29	1 17.53	+11 14.8	1.769	2.572	16.5	22.4
9 8	1 13.41	+32 50.3	3.135	3.872	11.3	20.3	9 8	1 13.69	+11 3.0	1.677	2.563	13.3	22.1
9 18	1 6.59	+33 9.9	3.062	3.884	9.6	20.2	9 18	1 7.38	+10 34.4	1.605	2.553	9.4	21.9
9 28	0 58.53	+33 10.9	3.013	3.895	8.0	20.1	9 28	0 59.12	+9 50.6	1.556	2.543	5.0	21.6
10 8	0 49.85	+32 53.0	2.989	3.905	6.7	20.0	10 8	0 49.81	+8 55.7	1.535	2.533	1.3	21.3
10 18	0 41.24	+32 17.5	2.993	3.915	6.3	20.0	10 18	0 40.53	+7 56.0	1.541	2.522	5.0	21.6
10 28	0 33.43	+31 28.0	3.025	3.925	7.0	20.1	10 28	0 32.42	+6 59.2	1.574	2.511	9.5	21.8
11 7	0 27.01	+30 29.7	3.084	3.934	8.4	20.2	11 7	0 26.39	+6 12.0	1.632	2.500	13.6	22.0
<b>491256</b>	2011 UF <sub>249</sub>	10 6.9	3°09'	2°5/5.1	15		<b>60411</b>	2000 CP <sub>20</sub>	10 6.9	128°78'	1°2/5.8	18 R	
8 29	1 12.40	+1 37.7	1.341	2.199	17.8	21.4	8 29	1 18.80	+5 35.5	1.851	2.667	15.4	19.6
9 8	1 10.09	+1 14.6	1.275	2.198	13.9	21.1	9 8	1 14.20	+4 53.7	1.783	2.681	12.0	19.4
9 18	1 5.07	+0 40.6	1.229	2.198	9.3	20.9	9 18	1 7.38	+3 59.5	1.736	2.694	8.0	19.2
9 28	0 57.98	+0 1.4	1.206	2.199	4.6	20.6	9 28	0 58.96	+2 57.5	1.714	2.706	3.7	19.0
10 8	0 49.91	-0 35.9	1.206	2.202	3.0	20.5	10 8	0 49.85	+1 53.9	1.721	2.718	1.5	18.9
10 18	0 42.10	-1 4.1	1.232	2.205	7.3	20.8	10 18	0 41.03	+0 55.4	1.756	2.730	5.5	19.2
10 28	0 35.78	-1 17.1	1.281	2.211	11.9	21.1	10 28	0 33.47	+0 8.0	1.819	2.741	9.5	19.4
11 7	0 31.81	-1 11.8	1.351	2.217	16.0	21.4	11 7	0 27.88	-0 24.0	1.906	2.751	13.0	19.7
<b>20883</b>	Gervais	10 6.9	80°29'	4°5/10.4	18		<b>474463</b>	2003 SG <sub>105</sub>	10 6.9	65°18'	0°3/7.1	16	
8 29	1 20.63	+17 24.0	1.404	2.196	20.6	18.5	8 29	1 18.32	+8 30.2	1.611	2.429	17.2	21

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>400670</b>	2009 <i>MD</i> <sub>8</sub>	10	6.9	297°50	16°3/21.6	17	<b>224248</b>	2005 <i>SM</i> <sub>172</sub>	10	6.9	354°73	2°9/ 9.1	18
8 29	1 14.59	+39 1.1	1.188	1.891	28.0	20.3	8 29	1 4.76	+13 51.6	0.996	1.855	22.5	19.3
9 8	1 13.66	+40 34.4	1.109	1.880	25.9	20.1	9 8	1 5.11	+13 52.6	0.929	1.846	18.4	19.0
9 18	1 8.76	+41 29.8	1.039	1.870	23.4	19.8	9 18	1 2.29	+13 24.5	0.878	1.839	13.4	18.7
9 28	1 0.29	+41 35.2	0.982	1.860	20.6	19.6	9 28	0 56.89	+12 28.5	0.845	1.833	7.7	18.4
10 8	0 49.63	+40 41.4	0.940	1.850	18.0	19.4	10 8	0 50.12	+11 10.9	0.833	1.830	3.0	18.1
10 18	0 38.82	+38 46.5	0.916	1.841	16.4	19.3	10 18	0 43.50	+ 9 43.0	0.843	1.829	6.5	18.3
10 28	0 30.16	+36 0.2	0.912	1.831	16.7	19.3	10 28	0 38.63	+ 8 19.1	0.874	1.830	12.2	18.7
11 7	0 25.26	+32 43.5	0.927	1.822	18.8	19.4	11 7	0 36.59	+ 7 11.4	0.924	1.833	17.4	19.0
<b>16954</b>	1998 <i>KT</i> <sub>48</sub>	10	6.9	13°93	11°5/27.9	18	<b>134138</b>	Laurabayley	10	6.9	322°99	5°4/ 3.8	18
8 29	1 13.73	-16 54.6	1.253	2.125	17.9	16.7	8 29	1 19.98	- 6 25.6	1.400	2.253	17.5	18.7
9 8	1 11.24	-18 32.5	1.213	2.130	14.9	16.5	9 8	1 16.32	- 6 38.7	1.314	2.232	13.9	18.4
9 18	1 5.83	-20 1.9	1.192	2.135	12.4	16.4	9 18	1 9.59	- 6 53.5	1.247	2.210	9.9	18.1
9 28	0 58.31	-21 9.9	1.193	2.142	11.5	16.3	9 28	1 0.35	- 7 3.1	1.204	2.190	6.3	17.9
10 8	0 49.95	-21 46.3	1.215	2.151	12.5	16.4	10 8	0 49.70	- 7 0.3	1.185	2.170	5.9	17.8
10 18	0 42.08	-21 45.7	1.259	2.160	14.8	16.6	10 18	0 39.04	- 6 39.5	1.191	2.151	9.5	18.0
10 28	0 35.95	-21 8.3	1.322	2.170	17.6	16.8	10 28	0 29.86	- 5 57.7	1.221	2.133	14.0	18.2
11 7	0 32.35	-19 59.0	1.403	2.182	20.2	17.0	11 7	0 23.31	- 4 55.1	1.272	2.116	18.2	18.4
<b>317303</b>	2002 <i>GV</i> <sub>98</sub>	10	6.9	180°52	1°0/ 8.0	18	<b>203169</b>	2000 <i>YF</i> <sub>26</sub>	10	6.9	309°96	10°4/16.0	18
8 29	1 16.45	+11 50.6	2.257	3.043	13.9	21.4	8 29	1 16.87	+30 46.0	1.713	2.420	20.4	20.1
9 8	1 12.15	+11 23.8	2.168	3.045	11.1	21.2	9 8	1 13.90	+32 0.3	1.618	2.408	18.2	19.9
9 18	1 5.94	+10 42.4	2.101	3.045	7.8	21.0	9 18	1 8.01	+32 50.3	1.538	2.396	15.7	19.7
9 28	0 58.29	+ 9 48.6	2.060	3.046	4.1	20.8	9 28	0 59.64	+33 9.8	1.478	2.384	13.1	19.5
10 8	0 49.94	+ 8 46.3	2.047	3.045	1.0	20.5	10 8	0 49.78	+32 55.1	1.438	2.372	11.1	19.4
10 18	0 41.72	+ 7 41.0	2.064	3.044	4.1	20.8	10 18	0 39.76	+32 6.8	1.422	2.360	10.5	19.3
10 28	0 34.45	+ 6 38.8	2.110	3.042	7.7	21.0	10 28	0 31.05	+30 51.0	1.430	2.349	11.8	19.3
11 7	0 28.81	+ 5 45.3	2.182	3.040	11.0	21.2	11 7	0 24.84	+29 18.9	1.460	2.339	14.3	19.5
<b>276551</b>	2003 <i>SN</i> <sub>133</sub>	10	6.9	64°31	3°7/10.5	16	<b>129184</b>	2005 <i>LL</i> <sub>41</sub>	10	6.9	131°77	2°7/ 4.5	17
8 29	1 20.19	+18 26.5	1.618	2.393	18.9	20.6	8 29	1 19.42	+ 1 31.0	1.754	2.582	15.6	20.7
9 8	1 15.44	+18 16.7	1.569	2.430	15.4	20.5	9 8	1 14.81	+ 0 41.2	1.688	2.594	12.1	20.5
9 18	1 8.22	+17 44.0	1.539	2.467	11.3	20.3	9 18	1 7.87	- 0 18.3	1.644	2.605	8.1	20.3
9 28	0 59.31	+16 49.9	1.531	2.504	7.1	20.1	9 28	0 59.24	- 1 21.7	1.625	2.616	4.1	20.1
10 8	0 49.84	+15 39.4	1.550	2.540	3.9	20.0	10 8	0 49.87	- 2 21.9	1.633	2.626	3.2	20.1
10 18	0 40.93	+14 20.1	1.596	2.576	5.1	20.2	10 18	0 40.82	- 3 12.1	1.670	2.636	6.7	20.3
10 28	0 33.63	+13 1.2	1.669	2.611	8.7	20.5	10 28	0 33.10	- 3 46.7	1.734	2.645	10.6	20.6
11 7	0 28.59	+11 50.5	1.768	2.646	12.2	20.8	11 7	0 27.44	- 4 3.1	1.820	2.653	14.0	20.8
<b>406999</b>	2009 <i>RR</i> <sub>53</sub>	10	6.9	175°70	0°3/ 7.3	18	<b>381022</b>	2006 <i>UV</i> <sub>212</sub>	10	6.9	328°40	7°4/13.1	18
8 29	1 11.71	+10 8.3	2.728	3.520	11.6	21.4	8 29	1 6.80	+23 43.8	1.195	1.996	23.0	20.3
9 8	1 8.10	+ 9 27.7	2.639	3.521	9.2	21.3	9 8	1 6.64	+24 4.7	1.106	1.975	19.9	20.0
9 18	1 3.00	+ 8 35.3	2.573	3.522	6.3	21.1	9 18	1 3.40	+23 51.6	1.031	1.955	16.0	19.7
9 28	0 56.82	+ 7 33.8	2.534	3.523	3.1	20.9	9 28	0 57.52	+22 59.5	0.973	1.936	11.7	19.4
10 8	0 50.13	+ 6 27.0	2.524	3.523	0.4	20.6	10 8	0 50.04	+21 28.5	0.937	1.918	8.1	19.1
10 18	0 43.53	+ 5 19.8	2.545	3.524	3.6	20.9	10 18	0 42.46	+19 25.6	0.922	1.901	8.0	19.1
10 28	0 37.68	+ 4 17.1	2.595	3.524	6.7	21.1	10 28	0 36.43	+17 5.5	0.930	1.886	11.8	19.2
11 7	0 33.08	+ 3 23.3	2.672	3.523	9.5	21.3	11 7	0 33.22	+14 46.5	0.960	1.872	16.6	19.5
<b>242836</b>	2006 <i>DT</i> <sub>67</sub>	10	6.9	227°43	7°3/16.2	17	<b>428536</b>	2008 <i>BK</i> <sub>16</sub>	10	6.9	230°87	3°3/ 9.6	17
8 29	1 15.64	+31 24.5	2.570	3.236	15.1	20.5	8 29	1 19.44	+15 21.4	1.708	2.494	17.7	22.0
9 8	1 11.70	+32 2.7	2.471	3.233	13.4	20.4	9 8	1 15.39	+15 30.5	1.615	2.486	14.5	21.5
9 18	1 5.76	+32 21.4	2.390	3.230	11.4	20.2	9 18	1 8.67	+15 20.6	1.541	2.477	10.8	21.7
9 28	0 58.27	+32 17.6	2.331	3.226	9.4	20.1	9 28	0 59.82	+14 51.2	1.490	2.468	6.6	21.2
10 8	0 49.94	+31 50.7	2.295	3.223	7.8	20.0	10 8	0 49.79	+14 4.9	1.465	2.458	3.4	21.0
10 18	0 41.63	+31 2.3	2.286	3.219	7.3	20.0	10 18	0 39.76	+13 7.1	1.468	2.448	5.3	21.1
10 28	0 34.22	+29 57.0	2.303	3.216	8.3	20.0	10 28	0 31.00	+12 5.6	1.497	2.438	9.6	21.3
11 7	0 28.46	+28 41.7	2.347	3.212	10.1	20.1	11 7	0 24.49	+11 9.0	1.551	2.427	13.7	21.6
<b>147400</b>	2003 <i>FF</i> <sub>17</sub>	10	6.9	47°89	1°0/ 5.9	18	<b>346511</b>	2008 <i>UK</i> <sub>136</sub>	10	6.9	4°08	7°6/ 4.2	18
8 29	1 14.92	+ 4 35.4	2.028	2.849	14.1	20.2	8 29	1 20.17	-10 56.3	0.970	1.850	21.3	19.8
9 8	1 11.11	+ 4 10.2	1.950	2.851	11.0	20.0	9 8	1 17.11	-10 44.5	0.918	1.848	17.1	19.6
9 18	1 5.29	+ 3 34.9	1.893	2.853	7.4	19.8	9 18	1 10.29	-10 25.8	0.883	1.849	12.5	19.3
9 28	0 58.00	+ 2 53.0	1.862	2.854	3.5	19.6	9 28	1 0.62	- 9 51.9	0.867	1.851	8.5	19.1
10 8	0 49.99	+ 2 9.5	1.859	2.857	1.4	19.4	10 8	0 49.72	- 8 56.6	0.873	1.857	7.9	19.1
10 18	0 42.14	+ 1 29.6	1.884	2.859	5.1	19.7	10 18	0 39.41	- 7 38.1	0.901	1.864	11.4	19.3
10 28	0 35.33	+ 0 58.4	1.936	2.861	8.9	19.9	10 28	0 31.38	- 5 58.6	0.951	1.874	15.9	19.6
11 7	0 30.24	+ 0 39.5	2.013	2.863	12.2	20.1	11 7	0 26.67	- 4 3.0	1.019	1.885	20.0	19.9
<b>509217</b>	2006 <i>SY</i> <sub>231</sub>	10	6.9	313°75	1°9/ 8.3	18	<b>440838</b>	2006 <i>SV</i> <sub>43</sub>	10	6.9	325°51	2°7/ 8.5	17
8 29	1 12.31	+12 8.1	1.276	2.110	20.0	21.8	8 29	1 18.18	+ 9 55.4	1.556	2.372	17.8	20.2
9 8	1 10.65	+12 2.9	1.185	2.089	16.3	21.4	9 8	1 14.82	+10 41.7	1.457	2.349	14.6	19.9
9 18	1 5.95	+11 34.7	1.111	2.067	11.7	21.1	9 18	1 8.58	+11 16.7	1.377	2.326	10.6	19.6
9 28	0 58.69	+10 44.1	1.058	2.047	6.4	20.8	9 28	0 59.92	+11 39.5	1.319	2.304	6.1	19.3
10 8	0 49.88	+ 9 35.9	1.029	2.027	1.9	20.4	10 8	0 49.77	+11 51.0	1.287	2.283	2.7	19.0
10 18	0 40.94	+ 8 18.7	1.023	2.007	6.2	20.6	10 18	0 39.40	+11 53.8	1.280	2.262	5.7	19.2
10 28	0 33.44	+ 7 4.0	1.041	1.988	11.9	20.9	10 28	0 30.24	+11 52.8	1.300	2.243	10.5	19.4
11 7	0 28.59	+ 6 2.7	1.080	1.971	17.1	21.1	11 7	0 23.45	+11 53.9	1.342	2.224	15.0	19.6
<b>364594</b>	2007 <i>RF</i> <sub>155</sub>	10	6.9	91°33	0°7/ 7.4	16	<b>2197</b>	Shanghai	10	6.9	258°83	0°8/ 6.1	18
8 29	1 22.06	+ 9 44.1											

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>476243</b>	2007 <i>VJ</i> <sub>66</sub>	10 6.9	3°12'	0°1'	7.0	18	<b>249711</b>	2000 <i>QM</i> <sub>37</sub>	10 6.9	62°72'	2°7'	4.8	17
8 29	1 13.18	+ 9 24.7	1.803	2.619	15.7	21.5	8 29	1 17.25	+ 4 51.8	1.178	2.030	20.2	20.1
9 8	1 10.08	+ 8 47.2	1.723	2.619	12.4	21.3	9 8	1 13.96	+ 3 40.8	1.132	2.051	15.6	19.9
9 18	1 4.78	+ 7 53.3	1.663	2.619	8.5	21.1	9 18	1 7.65	+ 2 12.6	1.104	2.072	10.3	19.7
9 28	0 57.83	+ 6 46.6	1.628	2.619	4.1	20.8	9 28	0 59.21	+ 0 36.0	1.099	2.093	4.9	19.4
10 8	0 50.06	+ 5 33.0	1.620	2.619	0.5	20.5	10 8	0 49.96	- 0 57.3	1.119	2.114	3.3	19.4
10 18	0 42.46	+ 4 19.8	1.640	2.620	5.0	20.9	10 18	0 41.30	- 2 16.1	1.164	2.136	8.0	19.7
10 28	0 35.99	+ 3 14.7	1.687	2.620	9.3	21.1	10 28	0 34.51	- 3 12.3	1.232	2.157	12.8	20.1
11 7	0 31.40	+ 2 23.6	1.758	2.621	13.0	21.4	11 7	0 30.38	- 3 42.2	1.322	2.178	16.9	20.4
<b>12101</b>	Trujillo	10 6.9	53°25'	2°4'	4.2	18	<b>35551</b>	1998 <i>FA</i> <sub>114</sub>	10 6.9	143°54'	2°7'	9.7	18
8 29	1 11.88	+ 2 41.9	1.979	2.813	13.9	18.1	8 29	1 17.18	+ 16 0.6	2.063	2.835	15.5	18.2
9 8	1 8.73	+ 1 36.5	1.911	2.820	10.7	17.9	9 8	1 12.93	+ 15 51.4	1.981	2.843	12.6	18.0
9 18	1 3.67	+ 0 20.6	1.865	2.828	7.1	17.7	9 18	1 6.58	+ 15 24.7	1.919	2.851	9.2	17.8
9 28	0 57.22	- 0 59.9	1.845	2.837	3.6	17.5	9 28	0 58.67	+ 14 41.3	1.882	2.858	5.6	17.6
10 8	0 50.14	- 2 18.2	1.853	2.845	2.9	17.5	10 8	0 50.01	+ 13 44.7	1.872	2.865	2.8	17.4
10 18	0 43.28	- 3 27.3	1.889	2.854	6.1	17.7	10 18	0 41.53	+ 12 40.1	1.891	2.871	4.4	17.6
10 28	0 37.46	- 4 21.4	1.951	2.862	9.6	18.0	10 28	0 34.15	+ 11 34.4	1.938	2.877	7.9	17.8
11 7	0 33.29	- 4 57.2	2.038	2.871	12.7	18.2	11 7	0 28.58	+ 10 34.3	2.011	2.882	11.3	18.0
<b>296731</b>	2009 <i>TK</i> <sub>10</sub>	10 6.9	203°55'	4°1'	11.9	18	<b>97231</b>	1999 <i>XG</i> <sub>60</sub>	10 6.9	206°18'	5°8'	30.5	18
8 29	1 14.04	+ 21 21.1	2.604	3.338	13.5	21.3	8 29	1 18.29	- 11 22.7	2.375	3.204	12.0	20.5
9 8	1 10.18	+ 21 30.4	2.507	3.336	11.4	21.1	9 8	1 13.46	- 12 22.9	2.299	3.198	9.6	20.4
9 18	1 4.58	+ 21 23.7	2.431	3.334	8.9	20.9	9 18	1 6.78	- 13 22.5	2.247	3.192	7.3	20.2
9 28	0 57.67	+ 21 0.4	2.378	3.332	6.3	20.8	9 28	0 58.72	- 14 15.2	2.222	3.186	5.9	20.1
10 8	0 50.09	+ 20 21.8	2.353	3.330	4.3	20.7	10 8	0 50.01	- 14 55.2	2.225	3.179	6.4	20.1
10 18	0 42.56	+ 19 31.1	2.357	3.328	4.6	20.7	10 18	0 41.44	- 15 17.9	2.256	3.171	8.4	20.3
10 28	0 35.85	+ 18 33.2	2.389	3.325	6.8	20.8	10 28	0 33.82	- 15 20.9	2.313	3.163	10.9	20.4
11 7	0 30.57	+ 17 34.1	2.448	3.322	9.4	21.0	11 7	0 27.79	- 15 4.0	2.393	3.154	13.3	20.6
<b>63435</b>	2001 <i>MU</i> <sub>21</sub>	10 6.9	1°90'	0°3'	7.1	18	<b>18594</b>	1998 <i>BJ</i>	10 6.9	338°52'	7°4'	11.7	18
8 29	1 16.21	+ 7 7.7	1.250	2.094	19.7	19.3	8 29	1 10.75	+ 19 22.3	1.072	1.896	23.6	17.5
9 8	1 13.43	+ 7 13.1	1.181	2.093	15.7	19.0	9 8	1 10.05	+ 20 20.0	0.994	1.882	20.1	17.2
9 18	1 7.58	+ 7 2.8	1.130	2.092	10.8	18.7	9 18	1 5.91	+ 20 51.0	0.931	1.868	15.9	16.9
9 28	0 59.34	+ 6 39.3	1.100	2.092	5.3	18.4	9 28	0 58.82	+ 20 50.0	0.886	1.856	11.3	16.6
10 8	0 49.88	+ 6 8.0	1.094	2.093	0.6	18.1	10 8	0 49.96	+ 20 16.3	0.860	1.845	7.8	16.4
10 18	0 40.65	+ 5 36.1	1.113	2.095	6.3	18.5	10 18	0 41.02	+ 19 14.7	0.856	1.835	8.4	16.4
10 28	0 33.10	+ 5 11.1	1.156	2.098	11.6	18.8	10 28	0 33.83	+ 17 57.1	0.873	1.828	12.6	16.6
11 7	0 28.22	+ 4 59.1	1.220	2.102	16.2	19.1	11 7	0 29.80	+ 16 38.0	0.910	1.821	17.4	16.8
<b>334316</b>	2001 <i>WT</i> <sub>17</sub>	10 6.9	323°87'	0°9'	7.6	18	<b>294570</b>	2007 <i>YU</i> <sub>49</sub>	10 6.9	141°21'	1°8'	8.4	17
8 29	1 14.66	+ 9 4.3	1.383	2.217	18.7	20.6	8 29	1 20.27	+ 12 17.1	1.678	2.476	17.5	21.4
9 8	1 12.14	+ 9 4.4	1.299	2.204	15.0	20.3	9 8	1 15.80	+ 12 11.3	1.602	2.484	14.0	21.2
9 18	1 6.73	+ 8 47.4	1.232	2.191	10.6	20.0	9 18	1 8.76	+ 11 48.0	1.546	2.491	10.0	21.0
9 28	0 58.98	+ 8 14.9	1.188	2.178	5.4	19.7	9 28	0 59.79	+ 11 8.5	1.513	2.498	5.5	20.7
10 8	0 49.92	+ 7 31.7	1.168	2.167	1.0	19.4	10 8	0 49.88	+ 10 17.3	1.507	2.505	1.8	20.5
10 18	0 40.87	+ 6 44.9	1.173	2.156	5.9	19.7	10 18	0 40.21	+ 9 20.6	1.529	2.511	5.0	20.7
10 28	0 33.24	+ 6 3.0	1.203	2.145	11.2	20.0	10 28	0 31.94	+ 8 26.2	1.578	2.516	9.4	21.0
11 7	0 28.09	+ 5 33.3	1.254	2.136	15.9	20.2	11 7	0 25.90	+ 7 40.8	1.651	2.521	13.4	21.3
<b>263892</b>	2009 <i>FZ</i> <sub>13</sub>	10 6.9	31°42'	7°9'	2.5	18	<b>90305</b>	2003 <i>FX</i>	10 6.9	330°27'	20°9'	6.3	18
8 29	1 17.77	- 7 18.5	0.960	1.843	21.2	18.9	8 29	1 8.58	- 35 32.0	1.102	1.956	21.2	17.9
9 8	1 14.89	- 8 17.5	0.924	1.858	16.7	18.7	9 8	1 8.70	- 38 44.3	1.061	1.924	20.9	17.8
9 18	1 8.50	- 9 17.8	0.906	1.874	11.9	18.5	9 18	1 5.10	- 41 31.0	1.036	1.894	21.5	17.7
9 28	0 59.64	- 10 7.5	0.908	1.891	8.3	18.4	9 28	0 58.40	- 43 32.4	1.027	1.865	22.9	17.7
10 8	0 49.88	- 10 35.7	0.931	1.910	8.5	18.4	10 8	0 50.02	- 44 34.1	1.032	1.838	24.8	17.7
10 18	0 40.91	- 10 35.7	0.976	1.930	12.0	18.7	10 18	0 41.81	- 44 29.9	1.049	1.812	26.9	17.8
10 28	0 34.16	- 10 6.1	1.042	1.951	16.2	19.0	10 28	0 35.65	- 43 21.0	1.075	1.788	28.9	17.9
11 7	0 30.46	- 9 10.1	1.126	1.972	19.9	19.3	11 7	0 32.79	- 41 15.7	1.109	1.767	30.7	18.0
<b>393601</b>	2003 <i>UD</i> <sub>204</sub>	10 6.9	307°54'	2°0'	5.3	18	<b>265455</b>	2004 <i>XC</i> <sub>140</sub>	10 6.9	214°72'	2°9'	3.2	18
8 29	1 15.07	+ 2 50.7	1.651	2.489	16.0	20.9	8 29	1 12.57	- 2 20.9	2.688	3.514	10.8	20.9
9 8	1 11.92	+ 2 23.6	1.563	2.473	12.6	20.7	9 8	1 8.80	- 3 10.5	2.605	3.510	8.4	20.7
9 18	1 6.28	+ 1 45.1	1.495	2.458	8.5	20.4	9 18	1 3.52	- 4 4.9	2.546	3.505	5.7	20.5
9 28	0 58.66	+ 0 59.6	1.450	2.443	4.1	20.1	9 28	0 57.13	- 4 59.7	2.514	3.501	3.4	20.4
10 8	0 49.97	+ 0 13.3	1.432	2.429	2.4	20.0	10 8	0 50.20	- 5 50.2	2.512	3.496	3.3	20.3
10 18	0 41.31	- 0 26.9	1.441	2.414	6.6	20.2	10 18	0 43.37	- 6 32.0	2.538	3.491	5.6	20.5
10 28	0 33.83	- 0 54.7	1.475	2.400	11.1	20.4	10 28	0 37.27	- 7 1.5	2.593	3.485	8.3	20.7
11 7	0 28.44	- 1 5.8	1.532	2.387	15.1	20.7	11 7	0 32.44	- 7 16.8	2.672	3.480	10.8	20.8
<b>450511</b>	2006 <i>AD</i> <sub>35</sub>	10 6.9	326°67'	1°9'	8.7	18	<b>121223</b>	1999 <i>RQ</i> <sub>15</sub>	10 6.9	320°34'	15°2'	10.0	17
8 29	1 13.39	+ 12 2.2	1.912	2.714	15.5	20.9	8 29	1 33.33	+ 20 22.5	0.968	1.763	27.6	19.2
9 8	1 10.29	+ 12 5.4	1.818	2.703	12.5	20.7	9 8	1 29.62	+ 23 51.1	0.889	1.749	24.3	18.9
9 18	1 5.00	+ 11 53.6	1.746	2.692	9.0	20.5	9 18	1 20.76	+ 27 13.3	0.827	1.735	20.6	18.6
9 28	0 58.00	+ 11 27.8	1.697	2.681	5.0	20.2	9 28	1 6.78	+ 30 13.2	0.782	1.722	17.1	18.4
10 8	0 50.07	+ 10 51.0	1.674	2.671	1.9	20.0	10 8	0 48.94	+ 32 32.6	0.758	1.710	15.2	18.2
10 18	0 42.16	+ 10 7.9	1.679	2.661	4.6	20.1	10 18	0 29.87	+ 33 58.3	0.755	1.699	16.1	18.2
10 28	0 35.27	+ 9 24.9	1.710	2.651	8.6	20.4	10 28	0 13.00	+ 34 30.9	0.772	1.689	19.2	18.4
11 7	0 30.20	+ 8 48.0	1.767	2.643	12.3	20.6	11 7	0 1.02	+ 34 25.6	0.806	1.680	23.1	18.6
<b>77952</b>	2002 <i>GU</i> <sub>141</sub>	10 6.9	42°70'	3°9'	4.7</								

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>40373</b>	1999 <i>NF</i> <sub>36</sub>		10 6.9 134°01'	4.7/ 3.1	18		<b>166067</b>	2002 <i>CK</i> <sub>76</sub>		10 6.9 300°45'	4.0/ 3.9	18	
8 29	1 18.45	- 2 6.6	1.505	2.351	16.8	18.5	8 29	1 15.47	+ 0 52.9	1.294	2.151	18.4	20.2
9 8	1 14.52	- 3 11.5	1.440	2.356	13.1	18.3	9 8	1 12.84	- 0 5.8	1.219	2.141	14.4	19.9
9 18	1 7.94	- 4 24.9	1.397	2.361	9.0	18.1	9 18	1 7.23	- 1 18.7	1.162	2.131	9.8	19.6
9 28	0 59.39	- 5 38.8	1.377	2.365	5.4	17.9	9 28	0 59.24	- 2 38.3	1.129	2.121	5.3	19.3
10 8	0 49.94	- 6 43.8	1.384	2.369	5.3	17.9	10 8	0 50.00	- 3 54.1	1.120	2.111	4.6	19.3
10 18	0 40.81	- 7 32.0	1.417	2.373	8.8	18.1	10 18	0 40.88	- 4 55.6	1.135	2.102	9.0	19.5
10 28	0 33.15	- 7 57.9	1.474	2.376	12.8	18.4	10 28	0 33.31	- 5 34.4	1.174	2.093	13.9	19.7
11 7	0 27.82	- 7 59.8	1.553	2.380	16.4	18.6	11 7	0 28.32	- 5 46.7	1.233	2.084	18.3	20.0
<b>175876</b>	1999 <i>VS</i> <sub>153</sub>		10 6.9 114°22'	0.5/ 6.5	17		<b>269833</b>	2000 <i>BN</i> <sub>12</sub>		10 6.9 43°53'	4.7/ 3.3	18	
8 29	1 18.62	+ 7 41.7	1.635	2.454	17.0	21.0	8 29	1 15.14	- 0 37.7	1.242	2.105	18.7	20.1
9 8	1 14.41	+ 7 4.7	1.568	2.466	13.3	20.8	9 8	1 12.26	- 1 51.0	1.194	2.119	14.4	19.9
9 18	1 7.74	+ 6 12.3	1.521	2.479	9.0	20.6	9 18	1 6.52	- 3 14.7	1.164	2.133	9.7	19.7
9 28	0 59.25	+ 5 8.6	1.499	2.491	4.3	20.3	9 28	0 58.72	- 4 39.2	1.158	2.148	5.6	19.5
10 8	0 49.97	+ 4 0.4	1.504	2.502	0.9	20.1	10 8	0 50.09	- 5 53.6	1.176	2.164	5.4	19.6
10 18	0 41.01	+ 2 55.5	1.536	2.513	5.6	20.5	10 18	0 41.94	- 6 48.7	1.219	2.180	9.2	19.8
10 28	0 33.46	+ 2 1.1	1.595	2.524	10.0	20.8	10 28	0 35.50	- 7 18.4	1.284	2.196	13.5	20.1
11 7	0 28.08	+ 1 22.5	1.678	2.535	13.9	21.0	11 7	0 31.55	- 7 21.7	1.370	2.213	17.2	20.4
<b>290965</b>	2005 <i>WQ</i> <sub>197</sub>		10 6.9 276°54'	1.0/ 7.9	18		<b>223532</b>	2004 <i>EH</i> <sub>5</sub>		10 6.9 51°66'	0.9/ 7.6	18	
8 29	1 14.24	+10 32.1	2.293	3.088	13.4	21.5	8 29	1 20.82	+ 8 8.0	1.367	2.193	19.3	19.8
9 8	1 10.59	+10 20.2	2.189	3.070	10.8	21.3	9 8	1 16.65	+ 8 20.1	1.304	2.205	15.3	19.5
9 18	1 5.03	+ 9 55.5	2.105	3.053	7.6	21.1	9 18	1 9.54	+ 8 17.1	1.260	2.217	10.6	19.3
9 28	0 57.98	+ 9 19.4	2.048	3.035	4.0	20.8	9 28	1 0.23	+ 8 1.0	1.239	2.229	5.4	19.0
10 8	0 50.11	+ 8 35.2	2.018	3.016	1.0	20.6	10 8	0 49.91	+ 7 36.4	1.243	2.242	0.9	18.8
10 18	0 42.21	+ 7 47.3	2.017	2.998	4.1	20.8	10 18	0 39.98	+ 7 9.2	1.273	2.254	5.7	19.1
10 28	0 35.13	+ 7 1.3	2.045	2.980	7.8	21.0	10 28	0 31.75	+ 6 46.3	1.328	2.268	10.7	19.5
11 7	0 29.59	+ 6 22.3	2.098	2.961	11.2	21.2	11 7	0 26.13	+ 6 33.5	1.406	2.281	14.9	19.8
<b>474985</b>	2005 <i>TA</i> <sub>113</sub>		10 6.9 337°83'	1.4/ 7.9	18		<b>396732</b>	2003 <i>OA</i> <sub>16</sub>		10 6.9 17°19'	7.3/ 13.8	18	
8 29	1 12.20	+10 1.8	1.228	2.071	20.0	21.3	8 29	1 11.91	+24 1.9	1.509	2.278	20.3	19.2
9 8	1 10.53	+10 4.1	1.148	2.058	16.2	21.0	9 8	1 9.71	+24 47.9	1.445	2.290	17.4	19.0
9 18	1 5.81	+ 9 46.6	1.086	2.047	11.4	20.7	9 18	1 4.86	+25 7.9	1.398	2.303	14.0	18.8
9 28	0 58.61	+ 9 10.6	1.045	2.036	6.0	20.4	9 28	0 57.99	+24 59.2	1.370	2.318	10.5	18.7
10 8	0 50.03	+ 8 21.5	1.027	2.026	1.4	20.1	10 8	0 50.17	+24 23.0	1.365	2.334	7.8	18.6
10 18	0 41.48	+ 7 27.2	1.033	2.017	6.2	20.4	10 18	0 42.61	+23 24.1	1.384	2.352	7.6	18.6
10 28	0 34.48	+ 6 37.6	1.062	2.010	11.8	20.7	10 28	0 36.50	+22 11.5	1.428	2.370	9.8	18.8
11 7	0 30.15	+ 6 1.4	1.112	2.003	16.7	20.9	11 7	0 32.71	+20 55.7	1.495	2.390	12.9	19.0
<b>348263</b>	2004 <i>TL</i> <sub>199</sub>		10 6.9 3°92'	1.7/ 5.7	18		<b>184819</b>	2005 <i>TU</i> <sub>160</sub>		10 6.9 57°43'	2.3/ 9.5	18	
8 29	1 9.56	+ 3 13.7	1.272	2.136	18.3	19.5	8 29	1 12.69	+15 44.8	2.080	2.863	15.0	20.7
9 8	1 8.03	+ 3 1.8	1.210	2.135	14.3	19.3	9 8	1 9.45	+15 22.0	1.997	2.866	12.2	20.5
9 18	1 3.78	+ 2 37.7	1.167	2.136	9.6	19.0	9 18	1 4.24	+14 41.2	1.934	2.870	8.9	20.3
9 28	0 57.47	+ 2 6.0	1.145	2.139	4.5	18.7	9 28	0 57.58	+13 44.0	1.895	2.874	5.2	20.1
10 8	0 50.18	+ 1 33.8	1.147	2.145	2.1	18.6	10 8	0 50.22	+12 34.2	1.883	2.878	2.4	19.9
10 18	0 43.16	+ 1 8.0	1.173	2.152	6.8	18.9	10 18	0 43.01	+11 17.9	1.900	2.882	4.2	20.1
10 28	0 37.64	+ 0 54.9	1.223	2.161	11.6	19.2	10 28	0 36.80	+10 2.2	1.945	2.886	7.7	20.3
11 7	0 34.45	+ 0 58.2	1.294	2.172	15.8	19.5	11 7	0 32.27	+ 8 53.9	2.016	2.890	11.1	20.5
<b>122914</b>	2000 <i>SL</i> <sub>169</sub>		10 6.9 92°54'	1.1/ 7.7	18		<b>161288</b>	2003 <i>HQ</i> <sub>22</sub>		10 6.9 30°36'	1.4/ 6.3	18	
8 29	1 23.77	+ 8 17.1	1.755	2.556	16.7	18.6	8 29	1 21.86	+ 2 11.7	0.945	1.812	22.9	18.7
9 8	1 18.29	+ 8 36.4	1.686	2.571	13.2	18.4	9 8	1 18.36	+ 2 32.6	0.899	1.824	17.9	18.4
9 18	1 10.31	+ 8 43.8	1.637	2.586	9.2	18.1	9 18	1 11.10	+ 2 42.2	0.870	1.839	12.1	18.1
9 28	1 0.49	+ 8 40.6	1.614	2.601	4.7	17.9	9 28	1 1.04	+ 2 44.5	0.860	1.854	5.7	17.9
10 8	0 49.84	+ 8 29.7	1.617	2.616	1.1	17.7	10 8	0 49.83	+ 2 45.4	0.872	1.871	1.8	17.7
10 18	0 39.51	+ 8 15.2	1.650	2.630	4.9	18.0	10 18	0 39.33	+ 2 50.9	0.908	1.889	7.7	18.1
10 28	0 30.61	+ 8 2.2	1.710	2.644	9.1	18.3	10 28	0 31.20	+ 3 6.4	0.965	1.907	13.4	18.5
11 7	0 23.93	+ 7 55.3	1.794	2.658	12.8	18.5	11 7	0 26.42	+ 3 34.9	1.042	1.927	18.1	18.9
<b>23460</b>	1989 <i>SX</i> <sub>9</sub>		10 6.9 349°53'	0.6/ 6.6	18		<b>351462</b>	2005 <i>NL</i> <sub>10</sub>		10 6.9 169°60'	2.6/ 4.3	18	
8 29	1 7.95	+ 6 34.2	0.946	1.824	21.9	17.4	8 29	1 14.78	+ 0 47.9	2.099	2.928	13.4	20.9
9 8	1 7.81	+ 6 25.3	0.880	1.813	17.4	17.1	9 8	1 10.95	+ 0 1.0	2.022	2.929	10.4	20.7
9 18	1 4.27	+ 5 55.6	0.831	1.802	12.0	16.8	9 18	1 5.20	- 0 53.9	1.968	2.930	7.0	20.5
9 28	0 57.96	+ 5 9.1	0.799	1.794	5.7	16.4	9 28	0 58.02	- 1 52.1	1.940	2.930	3.6	20.3
10 8	0 50.14	+ 4 14.5	0.789	1.788	1.1	16.1	10 8	0 50.18	- 2 47.5	1.939	2.931	3.0	20.3
10 18	0 42.47	+ 3 22.3	0.800	1.784	7.6	16.5	10 18	0 42.48	- 3 34.6	1.968	2.932	6.0	20.5
10 28	0 36.64	+ 2 43.9	0.832	1.781	13.8	16.8	10 28	0 35.79	- 4 8.5	2.023	2.932	9.5	20.7
11 7	0 33.84	+ 2 26.8	0.881	1.781	19.1	17.1	11 7	0 30.75	- 4 26.4	2.103	2.932	12.5	20.9
<b>41355</b>	2000 <i>AF</i> <sub>36</sub>		10 6.9 314°31'	2.0/ 3.2	18		<b>430100</b>	2013 <i>SV</i> <sub>74</sub>		10 6.9 325°32'	1.2/ 7.7	18	
8 29	1 7.24	- 3 18.4	4.091	4.914	7.5	19.7	8 29	1 15.03	+ 9 7.8	1.224	2.066	20.2	21.0
9 8	1 4.16	- 3 50.4	4.005	4.909	5.8	19.5	9 8	1 12.85	+ 9 15.8	1.142	2.052	16.3	20.7
9 18	1 0.14	- 4 24.6	3.945	4.904	3.9	19.4	9 18	1 7.48	+ 9 5.5	1.078	2.038	11.5	20.4
9 28	0 55.46	- 4 58.5	3.913	4.899	2.4	19.3	9 28	0 59.49	+ 8 38.3	1.035	2.026	6.0	20.1
10 8	0 50.46	- 5 29.4	3.911	4.894	2.3	19.3	10 8	0 49.99	+ 7 58.8	1.015	2.014	1.2	19.7
10 18	0 45.51	- 5 55.0	3.938	4.889	3.9	19.4	10 18	0 40.47	+ 7 14.5	1.019	2.002	6.4	20.0
10 28	0 40.99	- 6 13.1	3.994	4.885	5.7	19.5	10 28	0 32.54	+ 6 34.7	1.046	1.992	12.1	20.3
11 7	0 37.25	- 6 22.4	4.077	4.880	7.5	19.6	11 7	0 27.40	+ 6 7.6	1.094	1.983	17.1	20.6
<b>273713</b>	2007 <i>EJ</i> <sub>69</sub>		10 6.9 216°35'	1.9/ 5.1	18		<b>385317</b>	2001 <i>YT</i> <					

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10 6.9

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>121615</b>	Marknoteware	10 6.9	7°86	7.1/30.5	18		<b>515200</b>	2011 <i>UH</i> <sub>414</sub>	10 6.9	343°48	0°6/	6.4	18
8 29	1 9.11	- 7 26.8	1.420	2.293	16.2	18.1	8 29	1 12.83	+ 7 37.4	1.889	2.709	15.0	21.4
9 8	1 7.35	- 8 51.5	1.367	2.295	12.7	17.9	9 8	1 9.75	+ 6 54.5	1.808	2.707	11.8	21.2
9 18	1 3.13	-10 19.3	1.335	2.299	9.3	17.8	9 18	1 4.56	+ 5 57.0	1.748	2.706	8.0	20.9
9 28	0 57.12	-11 39.9	1.327	2.304	7.2	17.7	9 28	0 57.81	+ 4 48.8	1.713	2.705	3.8	20.7
10 8	0 50.31	-12 43.5	1.342	2.311	7.9	17.7	10 8	0 50.28	+ 3 36.1	1.705	2.704	0.9	20.5
10 18	0 43.80	-13 22.4	1.382	2.319	10.8	17.9	10 18	0 42.89	+ 2 25.8	1.726	2.703	5.2	20.8
10 28	0 38.65	-13 32.9	1.443	2.328	14.1	18.1	10 28	0 36.57	+ 1 25.0	1.773	2.702	9.2	21.0
11 7	0 35.60	-13 15.4	1.525	2.339	17.2	18.4	11 7	0 32.03	+ 0 38.9	1.845	2.701	12.8	21.2
<b>184872</b>	2005 <i>UR</i> <sub>128</sub>	10 6.9	27°60	0°0/	6.9	17	<b>169812</b>	2002 <i>QT</i> <sub>35</sub>	10 6.9	291°26	7°9/	27.4	18
8 29	1 10.45	+ 7 35.4	3.039	3.837	10.4	21.2	8 29	1 11.75	-10 12.3	1.807	2.664	14.0	19.7
9 8	1 7.01	+ 7 14.6	2.951	3.838	8.1	21.0	9 8	1 9.06	-12 24.8	1.740	2.656	11.2	19.5
9 18	1 2.25	+ 6 45.6	2.887	3.839	5.5	20.9	9 18	1 4.18	-14 40.9	1.697	2.647	8.8	19.4
9 28	0 56.54	+ 6 10.3	2.850	3.840	2.7	20.7	9 28	0 57.66	-16 49.7	1.680	2.639	7.9	19.3
10 8	0 50.37	+ 5 31.8	2.842	3.841	0.3	20.5	10 8	0 50.30	-18 40.1	1.689	2.631	9.1	19.3
10 18	0 44.29	+ 4 53.5	2.864	3.843	3.3	20.7	10 18	0 43.07	-20 3.6	1.725	2.623	11.6	19.5
10 28	0 38.84	+ 4 18.8	2.916	3.844	6.1	20.9	10 28	0 36.93	-20 55.3	1.783	2.615	14.4	19.7
11 7	0 34.49	+ 3 50.8	2.994	3.845	8.6	21.1	11 7	0 32.63	-21 14.9	1.860	2.608	17.0	19.8
<b>53571</b>	2000 <i>CY</i> <sub>36</sub>	10 6.9	245°57	2°0/	8.6	18	<b>406256</b>	2007 <i>DH</i> <sub>91</sub>	10 6.9	128°26	3°4/	2.7	18
8 29	1 18.01	+12 30.4	1.719	2.518	17.1	20.0	8 29	1 12.79	- 2 16.2	2.433	3.264	11.7	21.0
9 8	1 14.22	+12 27.5	1.627	2.510	13.8	19.7	9 8	1 9.09	- 3 24.7	2.364	3.271	9.0	20.8
9 18	1 7.88	+12 7.2	1.556	2.501	9.9	19.5	9 18	1 3.79	- 4 38.6	2.319	3.279	6.1	20.7
9 28	0 59.51	+11 30.3	1.507	2.492	5.5	19.2	9 28	0 57.33	- 5 52.4	2.301	3.287	3.8	20.5
10 8	0 50.03	+10 40.4	1.485	2.482	2.0	19.0	10 8	0 50.36	- 7 0.3	2.312	3.294	3.9	20.6
10 18	0 40.58	+ 9 43.4	1.491	2.472	5.1	19.2	10 18	0 43.55	- 7 57.1	2.353	3.301	6.3	20.7
10 28	0 32.36	+ 8 47.1	1.523	2.462	9.6	19.4	10 28	0 37.60	- 8 38.7	2.420	3.308	9.1	20.9
11 7	0 26.28	+ 7 58.9	1.579	2.452	13.7	19.6	11 7	0 33.04	- 9 3.1	2.512	3.314	11.6	21.1
<b>76111</b>	2000 <i>DK</i> <sub>106</sub>	10 6.9	280°56	2°5/	4.8	18	<b>316709</b>	1997 <i>EE</i> <sub>60</sub>	10 6.9	149°28	1°3/	5.1	18
8 29	1 17.18	+ 0 17.3	1.882	2.713	14.6	19.2	8 29	1 13.68	+ 3 24.7	2.982	3.787	10.4	21.9
9 8	1 13.14	- 0 9.9	1.801	2.708	11.4	18.9	9 8	1 9.45	+ 2 37.2	2.904	3.798	8.0	21.8
9 18	1 6.87	- 0 44.6	1.741	2.703	7.7	18.7	9 18	1 3.87	+ 1 42.6	2.851	3.808	5.3	21.6
9 28	0 58.92	- 1 22.3	1.707	2.698	3.9	18.5	9 28	0 57.33	+ 0 44.3	2.826	3.818	2.6	21.4
10 8	0 50.11	- 1 57.4	1.700	2.693	2.9	18.4	10 8	0 50.36	- 0 13.6	2.832	3.827	1.6	21.4
10 18	0 41.45	- 2 24.6	1.721	2.688	6.4	18.6	10 18	0 43.53	- 1 6.9	2.868	3.835	4.1	21.6
10 28	0 33.90	- 2 39.1	1.769	2.684	10.2	18.8	10 28	0 37.41	- 1 52.0	2.933	3.843	6.8	21.8
11 7	0 28.25	- 2 38.3	1.840	2.679	13.6	19.0	11 7	0 32.46	- 2 26.2	3.026	3.850	9.2	21.9
<b>17054</b>	1999 <i>GL</i> <sub>2</sub>	10 6.9	170°14	0°2/	7.2	18	<b>76153</b>	2000 <i>ER</i> <sub>20</sub>	10 6.9	182°47	6°1/	15.5	18
8 29	1 14.56	+ 8 44.8	2.071	2.878	14.3	17.9	8 29	1 15.02	+29 35.5	2.829	3.501	13.8	19.7
9 8	1 10.89	+ 8 21.1	1.988	2.879	11.3	17.7	9 8	1 10.98	+29 59.5	2.731	3.502	12.0	19.5
9 18	1 5.23	+ 7 44.2	1.926	2.879	7.8	17.5	9 18	1 5.19	+30 5.6	2.651	3.502	10.1	19.4
9 28	0 58.09	+ 6 57.0	1.889	2.879	3.8	17.2	9 28	0 58.07	+29 51.9	2.594	3.501	8.1	19.3
10 8	0 50.22	+ 6 3.9	1.881	2.880	0.4	17.0	10 8	0 50.27	+29 18.5	2.562	3.501	6.5	19.2
10 18	0 42.47	+ 5 10.4	1.900	2.880	4.5	17.3	10 18	0 42.51	+28 27.5	2.557	3.500	6.2	19.1
10 28	0 35.73	+ 4 22.5	1.948	2.880	8.3	17.5	10 28	0 35.56	+27 23.2	2.581	3.499	7.2	19.2
11 7	0 30.68	+ 3 45.0	2.020	2.880	11.7	17.7	11 7	0 30.06	+26 11.7	2.631	3.498	9.1	19.3
<b>119144</b>	2001 <i>PH</i> <sub>32</sub>	10 6.9	12°58	4°2/	4.2	18	<b>35870</b>	1999 <i>JQ</i> <sub>69</sub>	10 6.9	345°13	3°3/	4.6	18
8 29	1 17.69	- 2 0.3	1.263	2.123	18.6	19.1	8 29	1 18.18	+ 1 3.2	1.326	2.176	18.5	18.9
9 8	1 14.44	- 2 29.3	1.202	2.125	14.6	18.9	9 8	1 14.80	+ 0 22.9	1.257	2.175	14.4	18.6
9 18	1 8.19	- 3 5.7	1.160	2.127	9.9	18.6	9 18	1 8.46	- 0 29.2	1.208	2.174	9.8	18.3
9 28	0 59.65	- 3 42.5	1.140	2.131	5.5	18.4	9 28	0 59.83	- 1 26.6	1.181	2.173	5.0	18.1
10 8	0 50.06	- 4 11.5	1.144	2.135	4.7	18.3	10 8	0 50.07	- 2 20.5	1.179	2.172	3.8	18.0
10 18	0 40.83	- 4 25.9	1.173	2.140	8.7	18.6	10 18	0 40.56	- 3 2.5	1.202	2.172	8.1	18.3
10 28	0 33.30	- 4 20.9	1.225	2.145	13.2	18.9	10 28	0 32.68	- 3 25.7	1.250	2.171	12.9	18.5
11 7	0 28.41	- 3 55.2	1.297	2.152	17.3	19.1	11 7	0 27.37	- 3 27.0	1.318	2.171	17.1	18.8
<b>18843</b>	Ningzhou	10 6.9	278°57	0°4/	6.6	18	<b>225850</b>	2001 <i>XX</i> <sub>159</sub>	10 6.9	310°05	5°5/	2.3	18
8 29	1 14.24	+ 6 28.4	2.252	3.063	13.2	19.2	8 29	1 15.86	- 4 40.0	1.542	2.396	16.1	20.0
9 8	1 10.61	+ 6 6.2	2.152	3.046	10.4	18.9	9 8	1 12.61	- 5 43.2	1.470	2.388	12.7	19.8
9 18	1 5.08	+ 5 33.2	2.073	3.029	7.1	18.7	9 18	1 6.78	- 6 52.8	1.418	2.381	8.9	19.5
9 28	0 58.06	+ 4 51.8	2.021	3.012	3.4	18.5	9 28	0 58.97	- 8 0.7	1.390	2.374	5.9	19.4
10 8	0 50.24	+ 4 6.2	1.996	2.995	0.7	18.2	10 8	0 50.17	- 8 57.8	1.388	2.368	6.2	19.4
10 18	0 42.42	+ 3 21.3	2.000	2.977	4.6	18.5	10 18	0 41.54	- 9 36.3	1.411	2.361	9.5	19.5
10 28	0 35.43	+ 2 42.4	2.033	2.960	8.3	18.7	10 28	0 34.26	- 9 51.2	1.459	2.355	13.3	19.8
11 7	0 29.98	+ 2 13.7	2.090	2.943	11.7	18.9	11 7	0 29.19	- 9 41.1	1.527	2.349	16.8	20.0
<b>515374</b>	2013 <i>EV</i> <sub>72</sub>	10 6.9	236°88	0°9/	6.1	18	<b>483619</b>	2004 <i>TK</i> <sub>91</sub>	10 6.9	330°05	1°2/	8.1	17
8 29	1 14.32	+ 5 45.1	2.048	2.866	14.0	22.0	8 29	1 12.39	+10 59.9	1.927	2.735	15.2	21.4
9 8	1 10.72	+ 5 11.3	1.965	2.864	11.0	21.8	9 8	1 9.49	+10 49.3	1.835	2.725	12.2	21.2
9 18	1 5.13	+ 4 25.9	1.904	2.863	7.4	21.6	9 18	1 4.47	+10 23.6	1.765	2.715	8.6	21.0
9 28	0 58.06	+ 3 32.5	1.869	2.861	3.5	21.4	9 28	0 57.82	+ 9 44.5	1.719	2.706	4.6	20.7
10 8	0 50.25	+ 2 36.5	1.862	2.860	1.2	21.2	10 8	0 50.30	+ 8 56.0	1.699	2.697	1.2	20.5
10 18	0 42.57	+ 1 43.5	1.883	2.858	5.0	21.5	10 18	0 42.82	+ 8 3.5	1.706	2.689	4.5	20.7
10 28	0 35.89	+ 0 59.4	1.932	2.857	8.8	21.7	10 28	0 36.35	+ 7 13.5	1.741	2.681	8.6	20.9
11 7	0 30.90	+ 0 28.3	2.005	2.855	12.2	21.9	11 7	0 31.64	+ 6 32.0	1.800	2.673	12.3	21.1
<b>264232</b>	2010 <i>SR</i> <sub>31</sub>	10 6.9	72°87	1°7/	8.6	18	<b>479633</b>	2014 <i>DM</i> <sub>42</sub>	10 6.9	111°00	2°0/	5.2	18
8 29	1 15.92	+12 2.8	2.074	2.866									



EPHEMERIDES

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>412621</b>	2014 <i>OW</i> <sub>103</sub>	10 6.9	35°35'	3.7/	2.7	18	<b>330175</b>	2006 <i>CY</i> <sub>14</sub>	10 6.9	132°49'	5.9/28.9	18	
8 29	1 11.60	- 2 8.2	2.128	2.967	12.8	21.1	8 29	1 12.27	-11 11.6	2.483	3.322	11.2	20.8
9 8	1 8.44	- 3 15.6	2.059	2.972	9.9	20.9	9 8	1 8.72	-12 41.6	2.422	3.327	8.9	20.6
9 18	1 3.48	- 4 29.1	2.014	2.977	6.7	20.7	9 18	1 3.56	-14 11.4	2.387	3.333	6.9	20.5
9 28	0 57.23	- 5 42.9	1.995	2.982	4.1	20.5	9 28	0 57.25	-15 34.1	2.379	3.338	5.9	20.5
10 8	0 50.38	- 6 50.2	2.004	2.987	4.2	20.6	10 8	0 50.42	-16 43.5	2.398	3.343	6.6	20.5
10 18	0 43.71	- 7 45.2	2.041	2.992	6.9	20.7	10 18	0 43.75	-17 34.7	2.445	3.347	8.5	20.6
10 28	0 37.99	- 8 23.4	2.104	2.998	9.9	20.9	10 28	0 37.93	-18 4.8	2.517	3.352	10.6	20.8
11 7	0 33.81	- 8 42.7	2.191	3.004	12.7	21.1	11 7	0 33.48	-18 13.7	2.612	3.356	12.7	21.0
<b>258836</b>	2002 <i>PN</i> <sub>14</sub>	10 6.9	177°22'	3.3/11.2	18		<b>79815</b>	1998 <i>VG</i> <sub>38</sub>	10 6.9	16°15'	1.7/	8.2	18
8 29	1 13.72	+19 13.3	2.623	3.369	13.1	20.8	8 29	1 12.82	+10 51.9	1.083	1.933	21.7	18.9
9 8	1 9.92	+19 13.4	2.529	3.370	10.9	20.6	9 8	1 11.12	+10 55.4	1.026	1.938	17.4	18.6
9 18	1 4.43	+18 58.2	2.456	3.370	8.3	20.5	9 18	1 6.20	+10 36.4	0.985	1.945	12.3	18.3
9 28	0 57.70	+18 27.7	2.407	3.370	5.6	20.3	9 28	0 58.81	+9 57.3	0.964	1.953	6.5	18.1
10 8	0 50.34	+17 44.0	2.387	3.371	3.5	20.2	10 8	0 50.24	+9 4.5	0.965	1.963	1.7	17.8
10 18	0 43.05	+16 50.5	2.395	3.371	4.1	20.2	10 18	0 42.05	+8 7.2	0.989	1.974	6.2	18.1
10 28	0 36.56	+15 52.2	2.432	3.370	6.5	20.4	10 28	0 35.69	+7 16.0	1.037	1.986	11.7	18.5
11 7	0 31.47	+14 54.7	2.497	3.370	9.3	20.5	11 7	0 32.15	+6 39.2	1.105	2.000	16.5	18.8
<b>26699</b>	Masoncole	10 6.9	46°58'	1.5/	5.8	18	<b>112688</b>	2002 <i>PH</i> <sub>99</sub>	10 6.9	41°32'	3.0/	5.0	18
8 29	1 14.93	+ 7 1.4	1.202	2.051	20.0	18.3	8 29	1 18.50	+ 1 28.1	1.168	2.026	20.0	19.0
9 8	1 12.22	+ 6 5.0	1.152	2.068	15.6	18.0	9 8	1 15.10	+ 0 57.4	1.119	2.040	15.5	18.7
9 18	1 6.59	+ 4 49.4	1.120	2.086	10.4	17.8	9 18	1 8.59	+ 0 15.2	1.088	2.056	10.4	18.5
9 28	0 58.83	+ 3 21.7	1.110	2.104	4.8	17.6	9 28	0 59.83	- 0 31.7	1.079	2.072	5.1	18.3
10 8	0 50.22	+ 1 52.4	1.125	2.122	2.0	17.4	10 8	0 50.15	- 1 14.5	1.093	2.088	3.4	18.2
10 18	0 42.11	+ 0 32.5	1.164	2.142	7.1	17.8	10 18	0 41.02	- 1 45.4	1.133	2.106	8.0	18.5
10 28	0 35.75	- 0 28.9	1.228	2.161	12.0	18.1	10 28	0 33.78	- 1 58.4	1.195	2.124	12.8	18.9
11 7	0 31.96	- 1 6.7	1.313	2.181	16.3	18.5	11 7	0 29.28	- 1 51.4	1.279	2.142	16.9	19.2
<b>355491</b>	2007 <i>XV</i> <sub>2</sub>	10 6.9	357°73'	3.6/	3.9	18	<b>118008</b>	1257 <i>T</i> <sub>-2</sub>	10 6.9	261°06'	2.3/	8.9	18
8 29	1 13.92	- 0 37.6	1.602	2.451	15.9	20.5	8 29	1 20.28	+12 14.3	2.064	2.847	15.1	20.0
9 8	1 10.93	- 1 22.5	1.531	2.449	12.3	20.3	9 8	1 15.70	+12 34.0	1.959	2.830	12.3	19.8
9 18	1 5.54	- 2 16.1	1.482	2.448	8.4	20.1	9 18	1 8.79	+12 40.9	1.874	2.812	9.0	19.5
9 28	0 58.34	- 3 12.1	1.456	2.447	4.6	19.9	9 28	0 59.99	+12 35.0	1.814	2.794	5.2	19.3
10 8	0 50.27	- 4 2.9	1.456	2.446	4.1	19.8	10 8	0 50.11	+12 17.8	1.781	2.776	2.3	19.0
10 18	0 42.39	- 4 41.7	1.482	2.447	7.6	20.0	10 18	0 40.11	+11 52.8	1.778	2.758	4.6	19.2
10 28	0 35.80	- 5 3.0	1.534	2.447	11.6	20.3	10 28	0 31.08	+11 25.0	1.802	2.739	8.5	19.4
11 7	0 31.27	- 5 4.2	1.607	2.449	15.1	20.5	11 7	0 23.91	+11 0.1	1.852	2.720	12.3	19.5
<b>481000</b>	2004 <i>FL</i> <sub>89</sub>	10 6.9	215°43'	0.0/	6.9	18	<b>211644</b>	2003 <i>UG</i> <sub>211</sub>	10 6.9	326°56'	0.4/	7.3	18
8 29	1 17.86	+ 6 54.8	2.353	3.152	13.0	21.8	8 29	1 13.37	+ 8 8.3	1.461	2.296	17.8	20.7
9 8	1 13.28	+ 6 45.0	2.259	3.145	10.3	21.6	9 8	1 11.05	+ 8 4.7	1.372	2.278	14.3	20.4
9 18	1 6.79	+ 6 25.4	2.187	3.139	7.1	21.4	9 18	1 6.02	+ 7 45.1	1.301	2.261	10.0	20.1
9 28	0 58.87	+ 5 58.1	2.142	3.132	3.4	21.2	9 28	0 58.76	+ 7 11.7	1.253	2.244	5.0	19.8
10 8	0 50.21	+ 5 26.5	2.126	3.125	0.4	20.9	10 8	0 50.25	+ 6 29.2	1.229	2.228	0.6	19.4
10 18	0 41.59	+ 4 54.7	2.139	3.117	4.2	21.2	10 18	0 41.69	+ 5 44.6	1.231	2.213	5.8	19.7
10 28	0 33.87	+ 4 27.2	2.181	3.109	7.8	21.4	10 28	0 34.41	+ 5 5.8	1.258	2.199	11.0	20.0
11 7	0 27.70	+ 4 7.7	2.249	3.100	11.0	21.6	11 7	0 29.45	+ 4 39.5	1.306	2.186	15.5	20.2
<b>401552</b>	2013 <i>EK</i> <sub>128</sub>	10 6.9	40°17'	4.4/	3.3	18	<b>310697</b>	2002 <i>HZ</i> <sub>13</sub>	10 6.9	72°93'	11.2/21.9	18	
8 29	1 17.94	- 5 30.9	1.852	2.691	14.4	20.0	8 29	1 16.21	-29 28.8	2.233	3.045	13.2	19.3
9 8	1 13.59	- 6 1.3	1.789	2.700	11.3	19.8	9 8	1 12.01	-31 25.4	2.218	3.067	11.9	19.3
9 18	1 7.05	- 6 33.9	1.749	2.709	7.8	19.6	9 18	1 5.84	-33 6.2	2.225	3.089	11.2	19.3
9 28	0 58.97	- 7 3.1	1.734	2.718	5.0	19.5	9 28	0 58.33	-34 23.0	2.256	3.111	11.3	19.3
10 8	0 50.21	- 7 23.1	1.745	2.727	4.8	19.5	10 8	0 50.33	-35 10.4	2.309	3.132	12.1	19.4
10 18	0 41.75	- 7 29.6	1.784	2.737	7.5	19.7	10 18	0 42.72	-35 26.5	2.384	3.154	13.3	19.6
10 28	0 34.54	- 7 19.9	1.849	2.747	10.8	19.9	10 28	0 36.31	-35 12.1	2.478	3.175	14.5	19.7
11 7	0 29.24	- 6 53.5	1.937	2.758	13.8	20.1	11 7	0 31.68	-34 31.1	2.588	3.196	15.6	19.8
<b>457988</b>	2009 <i>WF</i> <sub>11</sub>	10 6.9	290°55'	4.2/11.9	18		<b>68300</b>	2001 <i>FD</i> <sub>95</sub>	10 6.9	104°31'	4.0/	1.4	18
8 29	1 13.79	+20 58.9	2.457	3.198	14.1	21.2	8 29	1 11.64	- 3 16.1	2.460	3.294	11.5	18.6
9 8	1 10.16	+21 10.5	2.362	3.196	11.8	21.0	9 8	1 8.19	- 4 50.9	2.396	3.306	8.8	18.5
9 18	1 4.70	+21 5.4	2.288	3.194	9.2	20.8	9 18	1 3.18	- 6 30.9	2.358	3.317	6.1	18.3
9 28	0 57.87	+20 43.2	2.237	3.193	6.5	20.7	9 28	0 57.07	- 8 9.7	2.347	3.328	4.2	18.2
10 8	0 50.33	+20 5.2	2.213	3.191	4.4	20.5	10 8	0 50.47	- 9 40.5	2.366	3.339	4.6	18.3
10 18	0 42.84	+19 14.7	2.217	3.189	4.7	20.6	10 18	0 44.04	-10 57.4	2.414	3.350	6.9	18.5
10 28	0 36.21	+18 16.9	2.250	3.188	7.0	20.7	10 28	0 38.45	-11 56.1	2.489	3.361	9.5	18.6
11 7	0 31.08	+17 18.0	2.309	3.186	9.8	20.9	11 7	0 34.20	-12 34.8	2.588	3.371	11.8	18.8
<b>319279</b>	2006 <i>BR</i> <sub>66</sub>	10 6.9	106°85'	3.2/10.9	18		<b>114753</b>	2003 <i>HP</i> <sub>42</sub>	10 6.9	240°57'	7.5/17.6	18	
8 29	1 16.13	+18 7.1	2.633	3.380	13.1	21.5	8 29	1 13.99	+33 55.8	2.541	3.192	15.6	19.6
9 8	1 11.67	+18 16.9	2.552	3.394	10.8	21.4	9 8	1 10.52	+34 14.0	2.441	3.188	13.9	19.4
9 18	1 5.54	+18 12.5	2.492	3.408	8.1	21.2	9 18	1 5.07	+34 9.8	2.356	3.184	11.9	19.3
9 28	0 58.21	+17 54.2	2.458	3.422	5.4	21.1	9 28	0 58.10	+33 40.7	2.293	3.180	9.9	19.2
10 8	0 50.30	+17 23.6	2.452	3.436	3.3	21.0	10 8	0 50.34	+32 46.1	2.253	3.176	8.2	19.0
10 18	0 42.55	+16 44.1	2.474	3.450	4.0	21.0	10 18	0 42.65	+31 28.5	2.240	3.172	7.5	19.0
10 28	0 35.66	+16 0.2	2.527	3.463	6.4	21.2	10 28	0 35.91	+29 53.5	2.253	3.168	8.3	19.0
11 7	0 30.21	+15 16.7	2.606	3.476	9.0	21.4	11 7	0 30.83	+28 9.1	2.293	3.164	10.1	19.2
<b>328224</b>	2008 <i>FY</i> <sub>10</sub>	10 6.9	53°29'	2.7/	5.1	16	<b>411474</b>	2010 <i>YK</i> <sub>4</sub>	10 6.9	309°61'	3.4/	3.6	18
8 29	1 19.32	+ 2 19.8	1.234										

EPHEMERIDES

10 6.9

10 7.0

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>479952</b>	2014 <i>HH</i> <sub>181</sub>	10	6.9 170°06	3°7/ 2.8 18			<b>356916</b>	2012 <i>BH</i> <sub>61</sub>	10	7.0 289°35	1°0/ 8.8 18		
8 29	1 15.35	- 2 54.4	2.290	3.119	12.4	22.1	8 29	1 8.10	+11 50.3	4.288	5.057	8.1	21.2
9 8	1 11.24	- 3 56.2	2.216	3.122	9.6	21.9	9 8	1 4.88	+11 44.3	4.184	5.050	6.4	21.1
9 18	1 5.35	- 5 3.3	2.165	3.125	6.6	21.8	9 18	1 0.71	+11 31.2	4.105	5.042	4.6	21.0
9 28	0 58.15	- 6 10.2	2.142	3.127	4.1	21.6	9 28	0 55.86	+11 11.9	4.053	5.035	2.6	20.8
10 8	0 50.35	- 7 10.8	2.147	3.129	4.1	21.6	10 8	0 50.66	+10 48.1	4.031	5.027	1.0	20.7
10 18	0 42.71	- 7 59.7	2.181	3.130	6.7	21.8	10 18	0 45.49	+10 21.7	4.039	5.020	2.3	20.8
10 28	0 36.00	- 8 32.9	2.243	3.131	9.6	22.0	10 28	0 40.72	+ 9 55.1	4.078	5.012	4.3	20.9
11 7	0 30.82	- 8 48.4	2.328	3.131	12.3	22.2	11 7	0 36.70	+ 9 30.7	4.144	5.005	6.2	21.1
<b>24505</b>	2001 <i>BZ</i>	10	6.9 38°15	2°2/10.9 18			<b>448301</b>	2009 <i>BE</i> <sub>62</sub>	10	7.0 265°86	5°2/ 1.3 18		
8 29	1 9.91	+17 26.3	4.294	5.030	8.5	18.3	8 29	1 13.31	- 4 3.6	1.919	2.764	13.8	21.3
9 8	1 6.27	+17 37.6	4.197	5.032	7.0	18.1	9 8	1 10.18	- 5 34.3	1.837	2.752	10.8	21.1
9 18	1 1.63	+17 40.5	4.123	5.035	5.3	18.0	9 18	1 4.95	- 7 13.0	1.779	2.740	7.6	20.9
9 28	0 56.28	+17 35.1	4.075	5.037	3.5	17.9	9 28	0 58.10	- 8 51.8	1.746	2.727	5.3	20.7
10 8	0 50.57	+17 22.6	4.057	5.040	2.3	17.8	10 8	0 50.41	-10 22.0	1.741	2.715	5.9	20.7
10 18	0 44.89	+17 4.5	4.069	5.042	2.7	17.8	10 18	0 42.79	-11 35.3	1.763	2.702	8.8	20.9
10 28	0 39.66	+16 43.1	4.110	5.045	4.2	18.0	10 28	0 36.18	-12 26.0	1.811	2.689	12.1	21.1
11 7	0 35.22	+16 20.8	4.180	5.047	6.0	18.1	11 7	0 31.34	-12 51.6	1.880	2.676	15.1	21.2
<b>195056</b>	2002 <i>CN</i> <sub>80</sub>	10	6.9 203°68	0°7/ 5.6 18			<b>509592</b>	2008 <i>DF</i> <sub>25</sub>	10	7.0 184°78	1°8/ 5.5 17		
8 29	1 7.02	+ 3 28.4	4.344	5.148	7.4	20.2	8 29	1 20.53	+ 3 4.5	1.744	2.567	15.9	22.0
9 8	1 3.97	+ 3 3.3	4.255	5.148	5.7	20.1	9 8	1 15.96	+ 2 34.7	1.665	2.568	12.4	21.8
9 18	1 0.05	+ 2 33.7	4.191	5.148	3.8	19.9	9 18	1 8.93	+ 1 54.3	1.608	2.567	8.4	21.6
9 28	0 55.50	+ 2 1.6	4.156	5.147	1.8	19.8	9 28	1 0.03	+ 1 7.5	1.575	2.567	4.0	21.3
10 8	0 50.66	+ 1 29.1	4.150	5.147	0.9	19.7	10 8	0 50.20	+ 0 20.6	1.570	2.566	2.2	21.2
10 18	0 45.87	+ 0 58.6	4.176	5.147	2.7	19.9	10 18	0 40.55	- 0 20.2	1.592	2.564	6.2	21.4
10 28	0 41.48	+ 0 32.2	4.230	5.147	4.7	20.0	10 28	0 32.18	- 0 49.0	1.642	2.562	10.5	21.7
11 7	0 37.82	+ 0 11.9	4.313	5.146	6.5	20.1	11 7	0 25.94	- 1 2.2	1.715	2.560	14.2	21.9
<b>401269</b>	2012 <i>BE</i> <sub>144</sub>	10	6.9 126°81	4°5/13.2 18			<b>24226</b>	<i>Sekhsaria</i>	10	7.0 266°18	0°0/ 6.9 18		
8 29	1 15.18	+24 20.7	2.754	3.464	13.4	21.2	8 29	1 13.60	+ 7 49.1	2.310	3.115	13.0	19.8
9 8	1 10.96	+24 24.8	2.668	3.476	11.3	21.0	9 8	1 9.99	+ 7 26.3	2.222	3.112	10.3	19.7
9 18	1 5.09	+24 11.9	2.602	3.489	9.0	20.9	9 18	1 4.59	+ 6 52.2	2.155	3.109	7.0	19.5
9 28	0 58.02	+23 41.5	2.560	3.501	6.6	20.8	9 28	0 57.85	+ 6 9.5	2.115	3.106	3.4	19.2
10 8	0 50.39	+22 55.1	2.545	3.513	4.8	20.7	10 8	0 50.44	+ 5 22.2	2.103	3.102	0.4	19.0
10 18	0 42.89	+21 55.9	2.559	3.524	4.8	20.7	10 18	0 43.12	+ 4 35.0	2.120	3.099	4.2	19.3
10 28	0 36.25	+20 49.0	2.602	3.535	6.5	20.8	10 28	0 36.66	+ 3 53.0	2.166	3.096	7.7	19.5
11 7	0 31.02	+19 40.3	2.673	3.545	8.7	21.0	11 7	0 31.70	+ 3 20.4	2.236	3.092	10.9	19.7
<b>314638</b>	2006 <i>JQ</i> <sub>26</sub>	10	7.0 139°49	1°6/ 8.3 17			<b>288352</b>	2004 <i>BW</i> <sub>145</sub>	10	7.0 337°55	12°1/17.3 16		
8 29	1 23.34	+11 3.5	1.632	2.431	17.9	21.1	8 29	1 15.44	+32 17.5	1.578	2.287	21.8	20.3
9 8	1 18.32	+11 6.7	1.558	2.441	14.3	20.9	9 8	1 13.19	+33 53.4	1.489	2.275	19.7	20.1
9 18	1 10.60	+10 53.7	1.504	2.450	10.1	20.7	9 18	1 7.85	+35 4.1	1.414	2.263	17.3	19.9
9 28	1 0.83	+10 25.7	1.473	2.459	5.4	20.4	9 28	0 59.84	+35 42.1	1.358	2.253	14.8	19.8
10 8	0 50.09	+ 9 46.8	1.470	2.467	1.7	20.2	10 8	0 50.19	+35 42.4	1.321	2.243	12.8	19.6
10 18	0 39.62	+ 9 2.8	1.494	2.475	5.2	20.5	10 18	0 40.33	+35 4.3	1.305	2.234	12.1	19.6
10 28	0 30.63	+ 8 20.8	1.545	2.482	9.7	20.8	10 28	0 31.88	+33 53.7	1.312	2.227	13.1	19.6
11 7	0 24.01	+ 7 47.3	1.620	2.488	13.7	21.0	11 7	0 26.15	+32 22.3	1.341	2.220	15.3	19.7
<b>296849</b>	2009 <i>WF</i> <sub>172</sub>	10	7.0 215°71	3°1/10.9 18			<b>248368</b>	2005 <i>QO</i> <sub>170</sub>	10	7.0 82°19	5°9/13.7 18		
8 29	1 13.48	+18 32.7	2.715	3.463	12.7	21.1	8 29	1 18.14	+25 9.3	2.137	2.856	16.5	20.4
9 8	1 9.71	+18 31.4	2.616	3.459	10.5	21.0	9 8	1 13.76	+25 35.3	2.064	2.876	14.1	20.3
9 18	1 4.31	+18 15.6	2.539	3.455	8.0	20.8	9 18	1 7.23	+25 40.5	2.010	2.896	11.3	20.1
9 28	0 57.69	+17 45.4	2.486	3.451	5.3	20.6	9 28	0 59.13	+25 23.3	1.978	2.915	8.5	20.0
10 8	0 50.44	+17 2.7	2.461	3.447	3.2	20.5	10 8	0 50.31	+24 44.8	1.971	2.934	6.3	19.9
10 18	0 43.24	+16 10.9	2.466	3.442	3.9	20.5	10 18	0 41.72	+23 48.9	1.992	2.954	6.2	19.9
10 28	0 36.79	+15 14.6	2.499	3.438	6.4	20.7	10 28	0 34.30	+22 41.9	2.040	2.973	8.0	20.1
11 7	0 31.67	+14 19.4	2.560	3.433	9.1	20.8	11 7	0 28.76	+21 31.6	2.115	2.991	10.5	20.3
<b>188179</b>	2002 <i>JW</i> <sub>78</sub>	10	7.0 53°13	1°9/ 9.1 18			<b>238882</b>	2005 <i>YY</i> <sub>42</sub>	10	7.0 90°85	6°9/14.4 17		
8 29	1 12.93	+14 55.2	1.985	2.774	15.4	19.9	8 29	1 21.15	+27 2.6	1.920	2.631	18.3	20.6
9 8	1 9.61	+14 23.4	1.920	2.795	12.4	19.7	9 8	1 16.35	+27 31.7	1.852	2.656	15.7	20.4
9 18	1 4.33	+13 33.8	1.875	2.816	8.8	19.5	9 18	1 9.09	+27 36.7	1.802	2.680	12.8	20.3
9 28	0 57.68	+12 28.9	1.855	2.837	5.0	19.3	9 28	1 0.05	+27 15.3	1.774	2.704	9.7	20.1
10 8	0 50.46	+11 13.6	1.862	2.858	1.9	19.2	10 8	0 50.21	+26 28.5	1.770	2.728	7.4	20.1
10 18	0 43.51	+ 9 54.6	1.898	2.880	4.1	19.4	10 18	0 40.71	+25 20.8	1.793	2.751	7.1	20.1
10 28	0 37.67	+ 8 39.1	1.961	2.902	7.7	19.6	10 28	0 32.62	+24 0.0	1.843	2.773	8.9	20.2
11 7	0 33.54	+ 7 33.3	2.050	2.923	11.0	19.9	11 7	0 26.71	+22 35.5	1.919	2.795	11.5	20.5
<b>392054</b>	2009 <i>BC</i> <sub>167</sub>	10	7.0 79°44	1°4/ 5.7 18			<b>358992</b>	2008 <i>SG</i> <sub>275</sub>	10	7.0 301°07	1°6/10.2 18		
8 29	1 15.21	+ 4 39.1	1.878	2.703	14.9	21.3	8 29	1 7.53	+15 40.1	4.348	5.099	8.2	21.4
9 8	1 11.55	+ 4 0.5	1.806	2.709	11.6	21.1	9 8	1 4.44	+15 33.9	4.248	5.097	6.7	21.3
9 18	1 5.77	+ 3 10.5	1.755	2.715	7.8	20.8	9 18	1 0.41	+15 19.5	4.171	5.094	4.9	21.2
9 28	0 58.43	+ 2 13.4	1.729	2.721	3.7	20.6	9 28	0 55.72	+14 57.4	4.120	5.091	3.1	21.0
10 8	0 50.38	+ 1 15.3	1.731	2.728	1.7	20.5	10 8	0 50.69	+14 29.3	4.099	5.089	1.7	20.9
10 18	0 42.53	+ 0 22.4	1.760	2.734	5.5	20.8	10 18	0 45.70	+13 56.9	4.108	5.086	2.4	21.0
10 28	0 35.81	- 0 19.3	1.817	2.740	9.4	21.0	10 28	0 41.12	+13 22.8	4.147	5.084	4.1	21.1
11 7	0 30.93	- 0 46.0	1.898	2.746	12.9	21.2	11 7	0 37.29	+12 49.6	4.214	5.081	5.9	21.2
<b>281196</b>	2007 <i>ED</i> <sub>219</sub>	10	7.0 224°58	0°2/ 6.8 18			<b>364607</b>	2007 <i>RJ</i> <sub>267</sub>	10	7.0 46°22	2°9/ 4.9 17		
8 29	1 18.71	+ 7 19.1	1.933	2.7									