

EPHEMERIDES

11 20.9

11 21.0

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>170874</b>	2004 <i>HS</i> <sub>37</sub>		11 20.9 270°30	2°3/20.1	18		<b>297520</b>	2001 <i>BC</i> <sub>79</sub>		11 20.9 236°94	1°4/21.8	18	
10 18	4 14.73	+12 49.7	2.036	2.871	12.9	19.8	10 18	4 14.11	+25 52.6	2.114	2.934	13.1	21.1
10 28	4 8.72	+12 54.4	1.943	2.853	9.7	19.6	10 28	4 8.23	+25 35.4	2.022	2.922	9.9	20.9
11 7	4 0.47	+13 0.5	1.874	2.835	6.1	19.3	11 7	4 0.13	+25 7.5	1.953	2.909	6.3	20.7
11 17	3 50.62	+13 9.3	1.834	2.817	2.7	19.1	11 17	3 50.52	+24 28.9	1.913	2.896	2.5	20.4
11 27	3 40.16	+13 22.4	1.823	2.798	3.8	19.1	11 27	3 40.43	+23 41.9	1.901	2.882	2.6	20.4
12 7	3 30.21	+13 41.4	1.841	2.779	7.6	19.3	12 7	3 31.00	+22 50.6	1.920	2.868	6.5	20.6
12 17	3 21.77	+14 7.4	1.887	2.760	11.4	19.5	12 17	3 23.19	+22 0.2	1.966	2.853	10.3	20.8
12 27	3 15.62	+14 41.3	1.956	2.741	14.7	19.7	12 27	3 17.74	+21 15.9	2.037	2.838	13.6	21.0
<b>413308</b>	2003 <i>UA</i> <sub>264</sub>		11 20.9 52°51	6°0/23.7	18		<b>119043</b>	2001 <i>HS</i> <sub>4</sub>		11 21.0 174°83	7°4/15.9	18	
10 18	4 18.49	+35 16.5	1.997	2.785	14.8	20.6	10 18	4 14.24	+4 3.1	1.905	2.739	13.7	19.4
10 28	4 11.70	+36 22.4	1.939	2.806	12.0	20.4	10 28	4 8.07	+2 6.1	1.843	2.742	10.8	19.2
11 7	4 2.27	+37 13.1	1.904	2.826	9.0	20.3	11 7	3 59.87	+0 13.3	1.808	2.744	8.3	19.1
11 17	3 51.11	+37 44.5	1.895	2.847	6.6	20.2	11 17	3 50.41	-1 27.2	1.800	2.746	7.4	19.0
11 27	3 39.53	+37 55.0	1.914	2.868	6.2	20.2	11 27	3 40.69	-2 47.7	1.821	2.747	8.8	19.1
12 7	3 28.89	+37 47.0	1.961	2.889	7.9	20.3	12 7	3 31.78	-3 43.5	1.870	2.747	11.3	19.3
12 17	3 20.35	+37 25.5	2.034	2.910	10.6	20.5	12 17	3 24.53	-4 13.0	1.943	2.747	14.1	19.4
12 27	3 14.65	+36 57.4	2.131	2.932	13.1	20.7	12 27	3 19.55	-4 17.7	2.035	2.746	16.5	19.6
<b>395787</b>	2012 <i>WT</i>		11 20.9 349°96	5°6/17.8	18		<b>379946</b>	2012 <i>MD</i> <sub>9</sub>		11 21.0 106°09	0°6/20.7	16	
10 18	4 7.05	+13 54.1	1.219	2.094	17.1	20.2	10 18	4 16.12	+21 13.3	1.542	2.384	16.0	21.5
10 28	4 3.82	+12 1.2	1.155	2.086	12.8	20.0	10 28	4 9.94	+20 30.8	1.483	2.397	11.8	21.3
11 7	3 57.76	+10 0.9	1.114	2.079	8.4	19.7	11 7	4 1.15	+19 38.8	1.446	2.410	7.1	21.0
11 17	3 49.83	+8 3.3	1.096	2.074	5.7	19.5	11 17	3 50.78	+18 40.2	1.436	2.423	2.0	20.7
11 27	3 41.45	+6 20.0	1.104	2.069	7.8	19.6	11 27	3 40.19	+17 40.2	1.455	2.435	3.3	20.9
12 7	3 34.10	+5 0.9	1.136	2.066	12.2	19.9	12 7	3 30.75	+16 45.1	1.501	2.447	8.2	21.2
12 17	3 28.96	+4 11.2	1.190	2.064	16.6	20.1	12 17	3 23.51	+16 0.2	1.573	2.459	12.5	21.5
12 27	3 26.79	+3 51.6	1.262	2.063	20.4	20.4	12 27	3 19.13	+15 29.4	1.667	2.470	16.1	21.7
<b>212204</b>	2005 <i>GZ</i> <sub>151</sub>		11 20.9 242°23	3°2/22.4	18		<b>358731</b>	2008 <i>CM</i> <sub>30</sub>		11 21.0 64°26	1°4/20.4	18	
10 18	4 16.20	+28 17.7	2.014	2.827	13.9	20.5	10 18	4 12.41	+17 8.1	1.854	2.697	13.6	21.4
10 28	4 10.03	+28 47.9	1.926	2.818	10.8	20.3	10 28	4 6.94	+16 52.4	1.787	2.702	10.1	21.2
11 7	4 1.34	+29 8.1	1.862	2.810	7.3	20.0	11 7	3 59.29	+16 33.4	1.744	2.708	6.1	20.9
11 17	3 50.89	+29 15.9	1.825	2.801	4.0	19.8	11 17	3 50.26	+16 12.7	1.728	2.713	2.0	20.7
11 27	3 39.81	+29 10.9	1.816	2.791	3.8	19.8	11 27	3 40.90	+15 53.3	1.740	2.719	3.3	20.8
12 7	3 29.38	+28 55.5	1.837	2.782	7.0	20.0	12 7	3 32.35	+15 38.4	1.781	2.725	7.3	21.1
12 17	3 20.75	+28 33.8	1.885	2.772	10.7	20.2	12 17	3 25.51	+15 30.7	1.848	2.730	11.1	21.3
12 27	3 14.72	+28 11.4	1.957	2.762	13.9	20.4	12 27	3 21.05	+15 32.3	1.938	2.736	14.3	21.5
<b>333253</b>	2012 <i>JE</i> <sub>6</sub>		11 20.9 164°90	7°9/16.3	18		<b>475066</b>	2005 <i>UH</i> <sub>128</sub>		11 21.0 327°23	0°7/21.2	18	
10 18	4 9.50	-6 34.5	2.531	3.334	11.6	20.5	10 18	4 12.80	+21 34.6	1.306	2.163	17.4	21.4
10 28	4 4.19	-7 21.1	2.472	3.335	9.8	20.4	10 28	4 8.39	+21 42.1	1.229	2.150	13.2	21.1
11 7	3 57.39	-7 55.4	2.438	3.337	8.4	20.3	11 7	4 0.76	+21 41.5	1.172	2.138	8.1	20.8
11 17	3 49.66	-8 13.2	2.430	3.338	7.9	20.3	11 17	3 50.80	+21 32.6	1.139	2.126	2.6	20.4
11 27	3 41.73	-8 11.5	2.449	3.339	8.6	20.4	11 27	3 40.02	+21 17.5	1.132	2.115	3.5	20.4
12 7	3 34.35	-7 49.4	2.494	3.340	10.1	20.5	12 7	3 30.14	+21 0.2	1.151	2.104	9.1	20.7
12 17	3 28.17	-7 8.1	2.564	3.340	11.9	20.6	12 17	3 22.64	+20 46.0	1.193	2.095	14.3	21.0
12 27	3 23.66	-6 10.2	2.654	3.341	13.6	20.7	12 27	3 18.55	+20 39.8	1.255	2.086	18.7	21.2
<b>238215</b>	2003 <i>UP</i> <sub>86</sub>		11 20.9 51°86	5°7/17.9	18		<b>80765</b>	2000 <i>CB</i> <sub>57</sub>		11 21.0 21°46	5°0/22.9	18	
10 18	4 10.95	+9 57.5	1.560	2.416	15.1	19.9	10 18	4 13.27	+30 0.5	1.047	1.903	20.8	18.4
10 28	4 5.95	+8 27.8	1.509	2.427	11.4	19.7	10 28	4 9.16	+30 25.4	0.997	1.911	16.2	18.2
11 7	3 58.68	+6 59.3	1.480	2.438	7.7	19.5	11 7	4 1.28	+30 30.1	0.965	1.921	11.0	17.9
11 17	3 50.04	+5 39.2	1.478	2.449	5.7	19.4	11 17	3 50.90	+30 11.7	0.954	1.932	6.2	17.7
11 27	3 41.21	+4 34.8	1.503	2.460	7.2	19.6	11 27	3 40.03	+29 32.2	0.966	1.944	5.6	17.7
12 7	3 33.37	+3 51.1	1.554	2.472	10.5	19.8	12 7	3 30.73	+28 39.1	1.002	1.957	9.9	18.0
12 17	3 27.43	+3 30.1	1.629	2.483	14.0	20.0	12 17	3 24.54	+27 42.4	1.060	1.972	14.7	18.3
12 27	3 23.98	+3 31.0	1.725	2.495	16.9	20.3	12 27	3 22.26	+26 51.7	1.138	1.988	18.9	18.6
<b>215295</b>	2001 <i>RR</i> <sub>145</sub>		11 20.9 16°10	1°9/20.1	17		<b>347582</b>	2001 <i>CT</i> <sub>49</sub>		11 21.0 327°23	1°6/20.5	18	
10 18	4 9.95	+18 0.7	1.537	2.394	15.3	20.2	10 18	4 11.97	+16 16.3	1.364	2.225	16.6	19.9
10 28	4 5.45	+17 16.0	1.475	2.397	11.3	19.9	10 28	4 7.62	+16 20.1	1.283	2.207	12.5	19.6
11 7	3 58.51	+16 25.0	1.435	2.402	6.8	19.7	11 7	4 0.25	+16 22.1	1.223	2.190	7.6	19.3
11 17	3 50.02	+15 31.7	1.421	2.407	2.4	19.4	11 17	3 50.65	+16 23.7	1.187	2.173	2.5	18.9
11 27	3 41.22	+14 41.1	1.434	2.412	4.0	19.6	11 27	3 40.22	+16 27.3	1.178	2.158	4.0	19.0
12 7	3 33.36	+13 58.8	1.474	2.419	8.5	19.8	12 7	3 30.54	+16 35.7	1.193	2.143	9.4	19.3
12 17	3 27.45	+13 29.0	1.538	2.426	12.6	20.1	12 17	3 23.04	+16 51.7	1.233	2.130	14.4	19.5
12 27	3 24.18	+13 14.1	1.624	2.433	16.2	20.4	12 27	3 18.72	+17 17.5	1.293	2.117	18.7	19.7
<b>144121</b>	2004 <i>BK</i> <sub>82</sub>		11 20.9 337°73	7°7/16.8	18		<b>449913</b>	2015 <i>NO</i> <sub>4</sub>		11 21.0 255°94	4°5/23.6	18	
10 18	4 9.46	+3 37.0	1.650	2.500	14.7	19.6	10 18	4 15.30	+33 51.5	1.781	2.587	15.7	20.7
10 28	4 4.90	+2 12.8	1.588	2.495	11.6	19.4	10 28	4 9.59	+33 43.4	1.697	2.581	12.5	20.4
11 7	3 58.13	+0 55.0	1.548	2.491	8.9	19.2	11 7	4 1.13	+33 16.4	1.635	2.574	8.8	20.2
11 17	3 49.92	-0 8.9	1.534	2.487	7.7	19.2	11 17	3 50.83	+32 28.7	1.598	2.568	5.5	20.0
11 27	3 41.35	-0 52.2	1.546	2.484	9.0	19.2	11 27	3 40.05	+31 22.0	1.589	2.561	4.8	20.0
12 7	3 33.57	-1 11.0	1.583	2.480	11.8	19.4	12 7	3 30.22	+30 2.1	1.608	2.554	7.7	20.1
12 17	3 27.51	-1 4.8	1.643	2.477	14.9	19.6	12 17	3 22.53	+28 37.2	1.653	2.548	11.5	20.3
12 27	3 23.85	-0 35.5	1.723	2.475	17.7	19.8	12 27	3 17.76	+27 16.1	1.723	2.541	15.0	20.5
<b>412702</b>	2014 <i>OD</i> <sub>280</sub>		11 20.9 12°61	9°0/25.5	17		<b>46395</b>	2002 <i>CT</i> <sub>4</sub>		11 21.0 36°44			

EPHEMERIDES

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	
<b>185786</b>	1999 <i>VU</i> <sub>24</sub>	11 21.0 349°17' 5 <sup>o</sup> 9/21.7 18						<b>441767</b>	2009 <i>CK</i> <sub>52</sub>	11 21.0 349°37' 4 <sup>o</sup> 0/19.5 18				
10 18	4 26.55	+ 0 27.1	1.000	1.849	22.2	18.2	10 18	4 8.69	+13 18.8	1.229	2.102	17.2	20.6	
10 28	4 19.59	+ 2 15.4	0.926	1.837	17.5	17.9	10 28	4 5.17	+12 43.1	1.163	2.093	12.9	20.3	
11 7	4 8.12	+ 4 38.8	0.871	1.826	12.0	17.5	11 7	3 58.72	+12 6.3	1.118	2.085	8.2	20.0	
11 17	3 53.09	+ 7 37.0	0.840	1.818	6.9	17.2	11 17	3 50.22	+11 33.2	1.096	2.078	4.2	19.8	
11 27	3 36.52	+11 1.2	0.836	1.811	7.1	17.2	11 27	3 41.13	+11 9.5	1.098	2.073	5.9	19.8	
12 7	3 20.97	+14 35.5	0.860	1.807	12.6	17.5	12 7	3 33.01	+11 0.0	1.125	2.069	10.6	20.1	
12 17	3 8.67	+18 4.7	0.910	1.804	18.5	17.8	12 17	3 27.13	+11 7.2	1.174	2.066	15.3	20.4	
12 27	3 1.07	+21 20.1	0.980	1.803	23.4	18.1	12 27	3 24.38	+11 31.7	1.242	2.064	19.4	20.6	
<b>340932</b>	2007 <i>EE</i> <sub>17</sub>	11 21.0 230°08' 4 <sup>o</sup> 4/18.8 18						<b>332805</b>	2009 <i>WO</i> <sub>133</sub>	11 21.0 295°85' 2 <sup>o</sup> 3/20.1 17				
10 18	4 13.24	+11 20.1	1.691	2.539	14.5	20.9	10 18	4 12.75	+12 0.2	2.266	3.100	11.8	20.7	
10 28	4 7.76	+10 24.5	1.618	2.533	10.9	20.6	10 28	4 6.93	+12 8.1	2.188	3.097	8.8	20.5	
11 7	3 59.91	+ 9 28.3	1.568	2.528	7.2	20.4	11 7	3 59.24	+12 17.8	2.135	3.094	5.5	20.2	
11 17	3 50.48	+ 8 36.5	1.545	2.522	4.5	20.2	11 17	3 50.31	+12 30.6	2.110	3.092	2.6	20.1	
11 27	3 40.63	+ 7 54.6	1.550	2.516	5.9	20.3	11 27	3 41.01	+12 47.8	2.115	3.089	3.5	20.1	
12 7	3 31.57	+ 7 27.1	1.583	2.509	9.6	20.5	12 7	3 32.27	+13 10.5	2.150	3.086	6.8	20.3	
12 17	3 24.33	+ 7 16.7	1.640	2.503	13.4	20.7	12 17	3 24.89	+13 39.2	2.213	3.084	10.1	20.5	
12 27	3 19.64	+ 7 23.8	1.718	2.496	16.7	21.0	12 27	3 19.52	+14 14.5	2.300	3.081	12.9	20.7	
<b>40154</b>	1998 <i>QE</i> <sub>83</sub>	11 21.0 68°97' 3 <sup>o</sup> 6/18.6 18						<b>348329</b>	2005 <i>CF</i> <sub>66</sub>	11 21.0 263°29' 1 <sup>o</sup> 8/21.9 18				
10 18	4 10.14	+12 28.4	2.051	2.894	12.5	18.8	10 18	4 14.27	+25 38.0	1.892	2.718	14.1	22.0	
10 28	4 4.87	+11 16.9	1.999	2.913	9.3	18.6	10 28	4 8.67	+25 38.3	1.802	2.705	10.8	21.7	
11 7	3 57.85	+10 4.9	1.973	2.932	5.9	18.5	11 7	4 0.59	+25 28.3	1.735	2.692	6.9	21.5	
11 17	3 49.83	+ 8 57.1	1.974	2.951	3.7	18.4	11 17	3 50.76	+25 7.4	1.695	2.678	2.9	21.2	
11 27	3 41.71	+ 7 58.5	2.005	2.969	4.9	18.5	11 27	3 40.33	+24 37.1	1.683	2.664	3.0	21.2	
12 7	3 34.39	+ 7 13.0	2.065	2.988	7.9	18.7	12 7	3 30.57	+24 1.1	1.700	2.650	7.1	21.4	
12 17	3 28.57	+ 6 43.0	2.151	3.007	11.0	18.9	12 17	3 22.61	+23 24.4	1.744	2.635	11.2	21.6	
12 27	3 24.76	+ 6 29.0	2.259	3.025	13.5	19.2	12 27	3 17.26	+22 52.3	1.812	2.621	14.7	21.8	
<b>268358</b>	2005 <i>TH</i> <sub>29</sub>	11 21.0 101°56' 0 <sup>o</sup> 3/20.9 18						<b>477903</b>	2011 <i>KF</i> <sub>27</sub>	11 21.0 217°61' 1 <sup>o</sup> 3/20.5 18				
10 18	4 16.10	+20 56.9	1.592	2.433	15.6	21.1	10 18	4 15.76	+17 11.5	1.936	2.770	13.5	22.1	
10 28	4 9.90	+20 31.8	1.533	2.446	11.6	20.9	10 28	4 9.53	+17 0.1	1.853	2.763	10.1	21.9	
11 7	4 1.15	+19 58.6	1.496	2.460	7.0	20.6	11 7	4 0.98	+16 45.1	1.793	2.755	6.1	21.6	
11 17	3 50.82	+19 19.1	1.486	2.473	2.0	20.4	11 17	3 50.86	+16 27.9	1.761	2.747	2.0	21.4	
11 27	3 40.25	+18 37.4	1.504	2.486	3.1	20.5	11 27	3 40.23	+16 11.0	1.759	2.738	3.2	21.4	
12 7	3 30.76	+17 58.3	1.551	2.498	7.9	20.8	12 7	3 30.28	+15 57.5	1.786	2.728	7.5	21.7	
12 17	3 23.42	+17 26.8	1.623	2.510	12.1	21.1	12 17	3 22.02	+15 50.2	1.840	2.718	11.4	21.9	
12 27	3 18.88	+17 6.3	1.717	2.522	15.6	21.3	12 27	3 16.21	+15 51.8	1.917	2.708	14.8	22.1	
<b>286452</b>	2002 <i>AR</i> <sub>78</sub>	11 21.0 308°42' 5 <sup>o</sup> 1/23.4 18						<b>147137</b>	2002 <i>TH</i> <sub>239</sub>	11 21.0 255°55' 10 <sup>o</sup> 2/24.5 18				
10 18	4 14.53	+32 43.8	1.518	2.339	17.2	20.6	10 18	4 19.58	+38 4.6	1.171	1.988	21.6	18.7	
10 28	4 9.57	+32 57.2	1.435	2.327	13.7	20.3	10 28	4 14.34	+39 40.3	1.118	1.996	17.9	18.5	
11 7	4 1.42	+32 52.1	1.372	2.316	9.7	20.0	11 7	4 4.76	+40 52.3	1.082	2.004	14.1	18.3	
11 17	3 51.01	+32 25.4	1.333	2.304	6.1	19.8	11 17	3 52.07	+41 31.0	1.067	2.014	11.1	18.2	
11 27	3 39.86	+31 37.3	1.321	2.293	5.4	19.7	11 27	3 38.48	+41 31.7	1.075	2.025	10.3	18.1	
12 7	3 29.66	+30 33.3	1.334	2.283	8.8	19.9	12 7	3 26.49	+40 58.9	1.106	2.037	12.3	18.3	
12 17	3 21.86	+29 21.9	1.373	2.272	13.0	20.1	12 17	3 18.01	+40 3.3	1.158	2.049	15.6	18.5	
12 27	3 17.42	+28 12.7	1.433	2.263	16.9	20.4	12 27	3 14.07	+38 58.5	1.230	2.062	18.9	18.8	
<b>326524</b>	2002 <i>NV</i> <sub>70</sub>	11 21.0 176°77' 4 <sup>o</sup> 5/18.3 18						<b>231799</b>	2000 <i>EW</i> <sub>6</sub>	11 21.0 270°65' 3 <sup>o</sup> 0/22.2 16				
10 18	4 9.26	+ 6 19.3	2.448	3.282	11.0	20.8	10 18	4 16.83	+27 56.0	2.603	3.402	11.5	20.2	
10 28	4 4.12	+ 5 39.0	2.379	3.283	8.5	20.6	10 28	4 10.21	+28 42.5	2.494	3.378	9.0	20.0	
11 7	3 57.42	+ 5 2.7	2.335	3.283	6.0	20.5	11 7	4 1.43	+29 22.5	2.411	3.354	6.1	19.8	
11 17	3 49.73	+ 4 33.6	2.319	3.283	4.5	20.4	11 17	3 51.03	+29 53.5	2.357	3.330	3.5	19.6	
11 27	3 41.81	+ 4 15.0	2.333	3.284	5.4	20.5	11 27	3 39.90	+30 14.1	2.333	3.306	3.4	19.6	
12 7	3 34.44	+ 4 9.0	2.374	3.284	7.8	20.6	12 7	3 29.09	+30 24.7	2.341	3.281	6.1	19.7	
12 17	3 28.27	+ 4 16.4	2.443	3.284	10.4	20.8	12 17	3 19.55	+30 27.7	2.378	3.256	9.2	19.9	
12 27	3 23.84	+ 4 36.8	2.535	3.283	12.7	21.0	12 27	3 12.11	+30 26.9	2.440	3.230	12.0	20.0	
<b>204830</b>	2007 <i>PP</i> <sub>25</sub>	11 21.0 109°66' 2 <sup>o</sup> 5/22.4 18						<b>53689</b>	2000 <i>DO</i> <sub>81</sub>	11 21.0 192°36' 1 <sup>o</sup> 6/21.7 18				
10 18	4 14.98	+28 32.8	1.774	2.596	15.1	20.3	10 18	4 17.30	+24 41.1	1.824	2.649	14.6	20.0	
10 28	4 9.07	+28 17.0	1.705	2.604	11.5	20.0	10 28	4 10.87	+24 46.6	1.745	2.648	11.1	19.8	
11 7	4 0.68	+27 46.9	1.658	2.611	7.5	19.8	11 7	4 1.87	+24 42.5	1.690	2.646	7.0	19.6	
11 17	3 50.70	+27 2.6	1.637	2.618	3.5	19.6	11 17	3 51.13	+24 28.2	1.661	2.644	2.8	19.3	
11 27	3 40.42	+26 6.9	1.645	2.624	3.3	19.6	11 27	3 39.88	+24 5.1	1.661	2.642	3.0	19.3	
12 7	3 31.13	+25 5.4	1.681	2.631	7.1	19.9	12 7	3 29.46	+23 36.8	1.690	2.639	7.2	19.6	
12 17	3 23.88	+24 4.6	1.744	2.638	11.0	20.1	12 17	3 20.99	+23 8.2	1.746	2.635	11.3	19.8	
12 27	3 19.34	+23 10.8	1.831	2.644	14.4	20.3	12 27	3 15.26	+22 44.2	1.826	2.631	14.8	20.0	
<b>383047</b>	2005 <i>QA</i> <sub>60</sub>	11 21.0 11°51' 0 <sup>o</sup> 6/20.8 18						<b>5206</b>	Kodomonomori	11 21.0 318°23' 8 <sup>o</sup> 6/24.8 18				
10 18	4 10.58	+20 8.6	1.077	1.950	19.0	20.2	10 18	4 17.28	+40 13.7	1.662	2.446	17.5	17.0	
10 28	4 6.85	+19 50.9	1.022	1.953	14.2	19.9	10 28	4 11.82	+41 12.0	1.581	2.437	14.8	16.8	
11 7	3 59.79	+19 24.1	0.988	1.957	8.6	19.6	11 7	4 2.93	+41 49.9	1.519	2.428	11.8	16.6	
11 17	3 50.51	+18 50.8	0.975	1.962	2.5	19.3	11 17	3 51.53	+42 0.9	1.481	2.420	9.4	16.4	
11 27	3 40.75	+18 16.1	0.987	1.969	3.9	19.4	11 27	3 39.22	+41 41.9	1.467	2.411	8.7	16.3	
12 7	3 32.30	+17 46.1	1.022	1.977	9.8	19.8	12 7	3 27.87	+40 55.8	1.479	2.403	10.3	16.4	
12 17	3 26.53	+17 26.3	1.080	1.986	15.0	20.1	12 17	3 19.09	+39 50.4	1.515	2.396	13.2	16.6	
12 27	3 24.24	+17 20.3	1.156	1.997	19.4	20.4	12 27	3 13.91	+38 36.3	1.573	2.389	16.3	16.8	
<b>446398</b>	2014 <i>HQ</i> <sub>183</sub>	11 21.0 94°90' 1 <sup>o</sup> 4/20.5 18						<b>104221</b>	2000 <i>EU</i> <sub>120</sub>	11 21.0 324°74' 5 <sup>o</sup> 4/18.1 17				
10 18	4 15.27	+15 48.2	1.991	2.826	13.2</									

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>121194</b>	1999 <i>NQ</i> <sub>26</sub>		11 21.0 63°26'	1.3°/21.6	18		<b>309992</b>	2009 <i>HQ</i> <sub>95</sub>		11 21.0 183°24'	4.7°/18.5	18	
10 18	4 17.57	+24 49.1	1.490	2.326	16.7	18.7	10 18	4 11.51	+7 14.8	2.189	3.024	12.1	21.4
10 28	4 10.95	+24 32.0	1.448	2.357	12.4	18.5	10 28	4 5.97	+6 31.3	2.119	3.025	9.3	21.3
11 7	4 1.71	+24 3.0	1.428	2.388	7.6	18.3	11 7	3 58.65	+5 51.3	2.074	3.025	6.4	21.1
11 17	3 50.99	+23 23.5	1.434	2.418	2.7	18.1	11 17	3 50.17	+5 18.5	2.057	3.024	4.7	21.0
11 27	3 40.26	+22 37.4	1.467	2.449	3.0	18.2	11 27	3 41.42	+4 56.7	2.069	3.024	5.7	21.0
12 7	3 30.91	+21 50.4	1.529	2.479	7.6	18.5	12 7	3 33.30	+4 48.3	2.109	3.023	8.4	21.2
12 17	3 23.93	+21 8.5	1.616	2.510	11.8	18.9	12 17	3 26.56	+4 54.5	2.176	3.021	11.3	21.4
12 27	3 19.89	+20 36.1	1.726	2.539	15.2	19.1	12 27	3 21.80	+5 14.7	2.265	3.020	13.9	21.6
<b>379602</b>	2011 <i>CZ</i> <sub>46</sub>		11 21.0 322°01'	0°9'/20.8	18		<b>511422</b>	2014 <i>HJ</i> <sub>179</sub>		11 21.0 184°21'	5°6'/18.0	18	
10 18	4 15.66	+17 11.8	1.272	2.131	17.7	20.5	10 18	4 13.02	+2 59.0	2.330	3.154	11.9	22.0
10 28	4 10.56	+17 29.2	1.198	2.121	13.3	20.2	10 28	4 6.97	+2 19.6	2.261	3.155	9.3	21.8
11 7	4 2.14	+17 44.7	1.145	2.111	8.1	19.9	11 7	3 59.20	+1 46.6	2.216	3.155	6.9	21.6
11 17	3 51.30	+17 58.5	1.116	2.102	2.4	19.5	11 17	3 50.33	+1 24.0	2.200	3.154	5.6	21.6
11 27	3 39.59	+18 11.9	1.112	2.094	3.8	19.6	11 27	3 41.20	+1 15.1	2.212	3.152	6.5	21.6
12 7	3 28.81	+18 27.0	1.134	2.085	9.6	19.9	12 7	3 32.66	+1 21.4	2.253	3.150	8.8	21.8
12 17	3 20.50	+18 46.8	1.180	2.078	14.8	20.2	12 17	3 25.45	+1 43.2	2.321	3.148	11.3	21.9
12 27	3 15.68	+19 14.0	1.246	2.071	19.2	20.4	12 27	3 20.15	+2 19.3	2.411	3.145	13.7	22.1
<b>257960</b>	2001 <i>BY</i> <sub>12</sub>		11 21.0 278°91'	3°9'/19.3	18		<b>399363</b>	2001 <i>HL</i> <sub>60</sub>		11 21.0 218°82'	6°0'/17.6	18	
10 18	4 12.34	+8 5.9	2.251	3.084	11.9	20.1	10 18	4 12.28	+2 38.1	2.293	3.119	12.0	21.4
10 28	4 6.75	+7 53.9	2.158	3.064	9.1	19.9	10 28	4 6.52	+1 48.6	2.217	3.111	9.5	21.2
11 7	3 59.23	+7 45.8	2.090	3.044	6.1	19.7	11 7	3 58.99	+1 5.3	2.165	3.102	7.2	21.1
11 17	3 50.37	+7 44.0	2.050	3.023	4.0	19.5	11 17	3 50.29	+0 32.5	2.141	3.092	6.0	21.0
11 27	3 41.00	+7 51.1	2.039	3.003	4.9	19.6	11 27	3 41.24	+0 14.3	2.145	3.082	6.9	21.0
12 7	3 32.08	+8 8.6	2.058	2.982	7.9	19.7	12 7	3 32.75	+0 12.8	2.178	3.071	9.2	21.1
12 17	3 24.46	+8 37.4	2.104	2.961	11.1	19.9	12 17	3 25.57	+0 28.6	2.237	3.059	11.8	21.3
12 27	3 18.83	+9 17.1	2.173	2.940	14.0	20.0	12 27	3 20.30	+1 0.4	2.317	3.047	14.2	21.5
<b>363557</b>	2003 <i>WQ</i> <sub>139</sub>		11 21.0 19°54'	5°6'/20.7	18		<b>143484</b>	2003 <i>CY</i> <sub>13</sub>		11 21.0 318°55'	2°7'/19.7	18	
10 18	4 18.16	+2 47.7	1.378	2.222	17.4	18.4	10 18	4 11.10	+14 10.3	1.847	2.694	13.5	20.4
10 28	4 11.56	+3 41.0	1.331	2.239	13.4	18.2	10 28	4 6.08	+13 40.7	1.773	2.689	10.1	20.1
11 7	4 2.22	+4 49.4	1.306	2.258	9.2	18.1	11 7	3 58.90	+13 9.5	1.722	2.685	6.2	19.9
11 17	3 51.20	+6 13.0	1.306	2.279	5.9	17.9	11 17	3 50.28	+12 39.6	1.697	2.680	2.9	19.7
11 27	3 39.93	+7 49.8	1.334	2.301	6.5	18.0	11 27	3 41.26	+12 14.8	1.702	2.676	4.2	19.8
12 7	3 29.87	+9 35.8	1.390	2.324	10.0	18.3	12 7	3 32.94	+11 58.3	1.734	2.671	8.0	20.0
12 17	3 22.13	+11 26.5	1.472	2.349	13.8	18.6	12 17	3 26.27	+11 52.8	1.791	2.667	11.8	20.2
12 27	3 17.41	+13 18.4	1.576	2.374	17.1	18.9	12 27	3 21.92	+11 59.6	1.872	2.664	15.0	20.4
<b>12442</b>	Beltramemass		11 21.0 166°50'	3°2'/23.3	18		<b>57409</b>	2001 <i>RT</i> <sub>120</sub>		11 21.0 306°65'	0°1'/20.9	18	
10 18	4 12.83	+32 34.1	2.643	3.434	11.5	18.0	10 18	4 13.75	+20 17.5	1.421	2.273	16.5	19.4
10 28	4 6.90	+32 30.6	2.561	3.437	9.1	17.8	10 28	4 8.91	+20 13.8	1.340	2.259	12.4	19.1
11 7	3 59.17	+32 14.9	2.504	3.440	6.3	17.7	11 7	4 1.05	+20 2.9	1.280	2.245	7.6	18.8
11 17	3 50.31	+31 46.3	2.474	3.443	3.9	17.5	11 17	3 51.00	+19 45.6	1.244	2.231	2.2	18.5
11 27	3 41.18	+31 6.0	2.474	3.445	3.4	17.5	11 27	3 40.16	+19 24.5	1.235	2.217	3.4	18.5
12 7	3 32.70	+30 17.0	2.505	3.447	5.6	17.6	12 7	3 30.14	+19 3.8	1.252	2.204	8.9	18.8
12 17	3 25.63	+29 23.9	2.564	3.449	8.3	17.8	12 17	3 22.32	+18 48.3	1.294	2.191	13.8	19.1
12 27	3 20.56	+28 31.6	2.649	3.450	10.8	18.0	12 27	3 17.69	+18 42.6	1.357	2.178	18.1	19.3
<b>236784</b>	Livorno		11 21.0 114°83'	1°2'/21.7	18		<b>161251</b>	2003 <i>EQ</i> <sub>23</sub>		11 21.0 343°24'	0°9'/20.8	18	
10 18	4 14.99	+24 55.8	1.819	2.647	14.5	20.5	10 18	4 10.90	+18 14.8	1.136	2.008	18.4	19.2
10 28	4 8.96	+24 37.3	1.752	2.657	10.9	20.3	10 28	4 7.26	+18 16.4	1.066	1.996	13.8	18.9
11 7	4 0.58	+24 8.0	1.709	2.667	6.8	20.1	11 7	4 0.24	+18 13.2	1.016	1.985	8.4	18.6
11 17	3 50.73	+23 28.7	1.692	2.676	2.4	19.8	11 17	3 50.78	+18 6.4	0.989	1.976	2.5	18.2
11 27	3 40.60	+22 42.5	1.704	2.686	2.7	19.9	11 27	3 40.50	+17 59.1	0.986	1.968	4.0	18.3
12 7	3 31.42	+21 54.1	1.745	2.694	7.0	20.2	12 7	3 31.22	+17 55.3	1.007	1.961	10.0	18.6
12 17	3 24.17	+21 9.1	1.813	2.703	10.9	20.4	12 17	3 24.50	+17 59.1	1.050	1.956	15.4	18.9
12 27	3 19.49	+20 32.0	1.905	2.711	14.2	20.7	12 27	3 21.36	+18 13.8	1.112	1.952	20.0	19.2
<b>2191</b>	Uppsala		11 21.0 351°14'	0°7'/21.5	18		<b>435721</b>	2008 <i>UY</i> <sub>52</sub>		11 21.0 61°10'	0°6'/21.3	16	
10 18	4 10.10	+24 36.6	1.938	2.772	13.5	15.5	10 18	4 16.13	+21 52.9	1.478	2.322	16.4	21.3
10 28	4 5.31	+24 2.1	1.861	2.770	10.1	15.3	10 28	4 10.11	+21 52.4	1.426	2.340	12.2	21.0
11 7	3 58.39	+23 16.5	1.807	2.768	6.3	15.1	11 7	4 1.38	+21 43.6	1.396	2.358	7.4	20.8
11 17	3 50.10	+22 21.7	1.780	2.766	2.1	14.8	11 17	3 50.98	+21 27.1	1.391	2.377	2.3	20.6
11 27	3 41.49	+21 21.3	1.783	2.765	2.5	14.8	11 27	3 40.35	+21 5.5	1.414	2.396	3.0	20.7
12 7	3 33.63	+20 20.4	1.814	2.763	6.7	15.1	12 7	3 30.90	+20 43.1	1.464	2.415	7.9	21.0
12 17	3 27.44	+19 24.5	1.871	2.763	10.5	15.3	12 17	3 23.75	+20 24.4	1.540	2.434	12.2	21.3
12 27	3 23.56	+18 38.1	1.953	2.762	13.8	15.6	12 27	3 19.56	+20 13.5	1.638	2.453	15.8	21.6
<b>81281</b>	2000 <i>FP</i> <sub>58</sub>		11 21.0 78°91'	2°9'/21.9	18		<b>45051</b>	1999 <i>XP</i> <sub>22</sub>		11 21.0 15°25'	0°9'/20.8	18	
10 18	4 21.95	+24 56.7	1.495	2.324	17.1	18.4	10 18	4 15.21	+16 52.2	1.104	1.972	19.1	17.7
10 28	4 14.61	+25 48.0	1.441	2.344	12.9	18.2	10 28	4 10.33	+17 15.4	1.048	1.975	14.3	17.4
11 7	4 4.21	+26 29.7	1.409	2.364	8.3	18.0	11 7	4 1.98	+17 37.0	1.012	1.980	8.6	17.1
11 17	3 51.82	+26 58.5	1.403	2.384	3.9	17.8	11 17	3 51.25	+17 57.0	0.998	1.985	2.6	16.8
11 27	3 39.04	+27 13.5	1.425	2.404	3.9	17.8	11 27	3 39.90	+18 16.4	1.009	1.991	4.0	16.9
12 7	3 27.52	+27 17.2	1.475	2.423	8.1	18.1	12 7	3 29.83	+18 37.5	1.045	1.998	9.9	17.2
12 17	3 18.55	+27 14.7	1.551	2.443	12.3	18.4	12 17	3 22.53	+19 2.6	1.103	2.006	15.1	17.6
12 27	3 12.89	+27 11.6	1.650	2.462	15.8	18.7	12 27	3 18.91	+19 34.2	1.181	2.016	19.4	17.9
<b>256254</b>	2006 <i>WO</i> <sub>40</sub>		11 21.0 62°41'	3°1'/19.4	18		<b>381774</b>	2009 <i>SM</i> <sub>331</sub>		11 21.0 100°68'	2°1'/21.8	18	

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>241539</b>	2010 <i>EB</i> <sub>71</sub>		11 21.0 172°30	3°3/19.1	18		<b>186784</b>	2004 <i>DB</i> <sub>53</sub>		11 21.0 178°41	0°7/20.7	18	
10 18	4 12.70	+12 55.7	2.035	2.874	12.7	21.4	10 18	4 15.83	+19 59.1	1.789	2.624	14.4	20.6
10 28	4 6.98	+12 3.2	1.965	2.877	9.5	21.2	10 28	4 9.67	+19 30.7	1.715	2.626	10.7	20.3
11 7	3 59.30	+11 9.3	1.919	2.879	6.0	21.0	11 7	4 1.10	+18 55.1	1.664	2.627	6.5	20.1
11 17	3 50.38	+10 17.7	1.902	2.881	3.4	20.8	11 17	3 50.97	+18 14.2	1.641	2.628	1.9	19.8
11 27	3 41.19	+9 33.0	1.914	2.882	4.7	20.9	11 27	3 40.45	+17 31.6	1.647	2.628	3.1	19.9
12 7	3 32.72	+8 59.0	1.954	2.882	8.0	21.1	12 7	3 30.79	+16 52.1	1.682	2.627	7.6	20.2
12 17	3 25.80	+8 38.3	2.022	2.883	11.3	21.3	12 17	3 23.02	+16 20.0	1.744	2.626	11.7	20.4
12 27	3 21.03	+8 32.1	2.112	2.883	14.2	21.5	12 27	3 17.85	+15 58.8	1.828	2.625	15.1	20.6
<b>422620</b>	2014 <i>UV</i> <sub>12</sub>		11 21.0 95°22	1°3/21.9	17		<b>457451</b>	2008 <i>UC</i> <sub>152</sub>		11 21.0 15°01	0°5/20.8	16	
10 18	4 10.48	+25 26.3	2.385	3.207	11.7	21.4	10 18	4 9.94	+19 23.8	1.971	2.813	13.0	21.4
10 28	4 5.27	+25 14.9	2.307	3.207	8.8	21.2	10 28	4 5.12	+19 14.5	1.902	2.816	9.6	21.2
11 7	3 58.26	+24 54.9	2.252	3.208	5.6	21.0	11 7	3 58.28	+19 0.4	1.856	2.820	5.8	21.0
11 17	3 50.09	+24 26.7	2.226	3.209	2.2	20.8	11 17	3 50.13	+18 42.8	1.838	2.824	1.7	20.7
11 27	3 41.63	+23 52.2	2.229	3.210	2.3	20.8	11 27	3 41.66	+18 24.0	1.848	2.829	2.6	20.8
12 7	3 33.78	+23 14.7	2.262	3.211	5.7	21.1	12 7	3 33.90	+18 7.2	1.887	2.834	6.7	21.0
12 17	3 27.33	+22 38.0	2.323	3.211	8.9	21.3	12 17	3 27.72	+17 55.1	1.952	2.840	10.3	21.3
12 27	3 22.85	+22 5.8	2.409	3.212	11.7	21.5	12 27	3 23.73	+17 50.5	2.040	2.846	13.4	21.5
<b>334067</b>	2001 <i>PW</i> <sub>16</sub>		11 21.0 160°94	9°2/15.1	16		<b>209711</b>	2005 <i>EW</i> <sub>84</sub>		11 21.0 200°39	5°7/17.7	18	
10 18	4 13.90	- 4 7.5	2.055	2.868	13.6	21.7	10 18	4 12.32	+ 2 39.2	2.414	3.237	11.5	21.0
10 28	4 7.72	- 5 49.8	2.004	2.876	11.4	21.6	10 28	4 6.46	+ 1 53.1	2.341	3.233	9.1	20.8
11 7	3 59.68	- 7 20.1	1.978	2.883	9.7	21.5	11 7	3 58.92	+ 1 13.1	2.292	3.229	6.8	20.7
11 17	3 50.49	- 8 31.3	1.978	2.889	9.2	21.5	11 17	3 50.31	+ 0 43.3	2.272	3.223	5.7	20.6
11 27	3 41.09	- 9 17.7	2.005	2.894	10.2	21.6	11 27	3 41.41	+ 0 27.1	2.281	3.217	6.6	20.6
12 7	3 32.46	- 9 36.9	2.058	2.898	12.1	21.7	12 7	3 33.05	+ 0 26.7	2.319	3.211	8.8	20.8
12 17	3 25.37	- 9 29.8	2.134	2.902	14.2	21.9	12 17	3 25.96	+ 0 42.2	2.382	3.204	11.3	20.9
12 27	3 20.38	- 8 59.4	2.229	2.905	16.1	22.0	12 27	3 20.69	+ 1 12.8	2.469	3.196	13.5	21.1
<b>311099</b>	2004 <i>GT</i> <sub>5</sub>		11 21.0 205°30	2°7/19.5	18		<b>218119</b>	2002 <i>PV</i> <sub>105</sub>		11 21.1 67°97	1°2/21.6	18	
10 18	4 12.18	+11 34.5	2.560	3.390	10.8	21.4	10 18	4 16.30	+25 16.0	1.340	2.185	17.8	20.5
10 28	4 6.33	+11 11.2	2.478	3.384	8.1	21.2	10 28	4 10.52	+24 47.1	1.286	2.199	13.3	20.2
11 7	3 58.83	+10 48.3	2.421	3.378	5.1	21.0	11 7	4 1.75	+24 3.9	1.252	2.214	8.3	20.0
11 17	3 50.26	+10 28.2	2.393	3.371	2.9	20.8	11 17	3 51.14	+23 8.0	1.243	2.228	2.9	19.7
11 27	3 41.38	+10 13.3	2.396	3.364	3.8	20.9	11 27	3 40.30	+22 4.5	1.261	2.243	3.2	19.8
12 7	3 32.99	+10 5.7	2.429	3.357	6.7	21.1	12 7	3 30.80	+21 0.8	1.306	2.258	8.4	20.1
12 17	3 25.81	+10 6.9	2.490	3.348	9.6	21.2	12 17	3 23.83	+20 4.4	1.375	2.273	13.1	20.4
12 27	3 20.41	+10 17.9	2.576	3.339	12.1	21.4	12 27	3 20.08	+19 20.8	1.466	2.288	17.0	20.7
<b>66127</b>	1998 <i>SQ</i> <sub>114</sub>		11 21.0 50°50	0°9/20.6	18		<b>131326</b>	2001 <i>HG</i> <sub>18</sub>		11 21.1 200°05	8°9/13.3	18	
10 18	4 11.20	+18 4.8	2.027	2.866	12.8	19.7	10 18	4 8.33	-10 52.1	2.744	3.530	11.3	20.4
10 28	4 5.93	+17 52.4	1.961	2.875	9.4	19.5	10 28	4 3.36	-12 18.5	2.690	3.527	10.0	20.3
11 7	3 58.69	+17 36.3	1.920	2.884	5.7	19.3	11 7	3 56.98	-13 31.8	2.660	3.524	9.1	20.3
11 17	3 50.22	+17 17.9	1.907	2.893	1.8	19.0	11 17	3 49.73	-14 27.0	2.656	3.521	9.0	20.3
11 27	3 41.48	+16 59.7	1.922	2.902	2.8	19.1	11 27	3 42.26	-14 59.9	2.677	3.517	9.7	20.3
12 7	3 33.47	+16 44.7	1.966	2.911	6.7	19.4	12 7	3 35.27	-15 9.3	2.723	3.513	10.9	20.4
12 17	3 27.03	+16 35.4	2.037	2.921	10.2	19.6	12 17	3 29.36	-14 55.8	2.792	3.509	12.4	20.5
12 27	3 22.75	+16 33.9	2.132	2.930	13.2	19.8	12 27	3 25.00	-14 21.8	2.879	3.505	13.7	20.6
<b>103236</b>	1999 <i>YV</i> <sub>24</sub>		11 21.0 36°15	4°0/20.1	18		<b>236130</b>	2005 <i>TW</i> <sub>24</sub>		11 21.1 312°96	1°9/21.7	18	
10 18	4 16.01	+11 28.6	1.106	1.974	19.1	19.1	10 18	4 14.43	+23 28.8	1.370	2.219	17.2	20.7
10 28	4 10.58	+11 26.3	1.061	1.987	14.3	18.8	10 28	4 9.74	+23 51.7	1.286	2.201	13.2	20.4
11 7	4 1.91	+11 28.1	1.035	2.000	8.9	18.6	11 7	4 1.75	+24 6.3	1.222	2.184	8.4	20.1
11 17	3 51.19	+11 36.7	1.033	2.015	4.4	18.4	11 17	3 51.30	+24 10.5	1.182	2.167	3.3	19.8
11 27	3 40.14	+11 54.9	1.055	2.031	5.8	18.5	11 27	3 39.85	+24 4.9	1.168	2.150	3.6	19.7
12 7	3 30.51	+12 24.2	1.102	2.047	10.6	18.8	12 7	3 29.18	+23 52.4	1.180	2.134	9.0	20.0
12 17	3 23.58	+13 4.6	1.172	2.064	15.3	19.2	12 17	3 20.86	+23 38.5	1.216	2.118	14.1	20.3
12 27	3 20.11	+13 55.4	1.261	2.082	19.3	19.5	12 27	3 15.98	+23 29.0	1.273	2.103	18.5	20.5
<b>63114</b>	2000 <i>WA</i> <sub>164</sub>		11 21.0 87°32	0°2/20.9	18		<b>269994</b>	2000 <i>WV</i> <sub>68</sub>		11 21.1 19°32	4°4/23.6	18	
10 18	4 18.11	+19 46.7	1.744	2.577	14.8	19.3	10 18	4 12.23	+33 7.5	1.675	2.492	16.0	19.4
10 28	4 11.11	+19 45.8	1.694	2.604	10.9	19.1	10 28	4 7.36	+33 4.2	1.607	2.497	12.6	19.2
11 7	4 1.80	+19 39.3	1.668	2.629	6.5	18.9	11 7	3 59.84	+32 42.5	1.560	2.502	8.9	19.0
11 17	3 51.10	+19 28.1	1.668	2.655	1.9	18.7	11 17	3 50.62	+32 1.5	1.538	2.509	5.4	18.8
11 27	3 40.27	+19 14.3	1.698	2.679	2.8	18.8	11 27	3 41.04	+31 3.2	1.542	2.516	4.7	18.7
12 7	3 30.53	+19 1.1	1.757	2.704	7.2	19.1	12 7	3 32.50	+29 53.5	1.574	2.523	7.6	18.9
12 17	3 22.83	+18 51.9	1.843	2.728	11.0	19.4	12 17	3 26.09	+28 40.1	1.632	2.531	11.3	19.2
12 27	3 17.78	+18 49.5	1.952	2.751	14.2	19.7	12 27	3 22.53	+27 30.9	1.714	2.540	14.7	19.4
<b>340270</b>	2006 <i>BL</i> <sub>183</sub>		11 21.0 348°00	3°7/23.3	15		<b>373900</b>	2003 <i>TB</i> <sub>55</sub>		11 21.1 347°49	0°4/21.1	18	
10 18	4 7.39	+31 48.2	2.065	2.882	13.4	20.2	10 18	4 15.78	+19 6.2	1.144	2.007	18.9	20.7
10 28	4 3.49	+31 52.2	1.978	2.869	10.6	19.9	10 28	4 10.96	+19 38.6	1.077	2.002	14.2	20.4
11 7	3 57.42	+31 42.4	1.914	2.858	7.4	19.7	11 7	4 2.54	+20 7.8	1.030	1.997	8.7	20.1
11 17	3 49.89	+31 17.7	1.875	2.847	4.5	19.5	11 17	3 51.52	+20 32.2	1.006	1.993	2.6	19.7
11 27	3 41.91	+30 39.2	1.864	2.837	4.0	19.5	11 27	3 39.63	+20 52.0	1.007	1.990	3.7	19.8
12 7	3 34.56	+29 50.7	1.880	2.828	6.7	19.6	12 7	3 28.83	+21 9.3	1.033	1.987	9.8	20.1
12 17	3 28.82	+28 57.3	1.923	2.821	9.9	19.8	12 17	3 20.77	+21 27.5	1.081	1.986	15.2	20.4
12 27	3 25.37	+28 4.9	1.991	2.814	13.0	20.0	12 27	3 16.51	+21 50.4	1.149	1.985	19.7	20.7
<b>353102</b>	2009 <i>EZ</i> <sub>19</sub>		11 21.0 286°97	0°3/20.9	16		<b>113839</b>	2002 <i>TG&lt;/</i>					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>196722</b>	2003 SV <sub>109</sub>		11 21.1 47°88	4.8/23.7	18		<b>11958</b>	Galiani		11 21.1 25°03	3.1/20.2	18	R
10 18	4 14.03	+34 16.6	2.141	2.935	13.8	19.8	10 18	4 14.80	+13 36.1	1.110	1.979	18.9	16.7
10 28	4 8.31	+34 44.7	2.068	2.942	11.0	19.6	10 28	4 9.86	+13 32.1	1.058	1.986	14.1	16.4
11 7	4 0.29	+34 58.6	2.018	2.949	8.0	19.4	11 7	4 1.62	+13 29.0	1.027	1.994	8.7	16.1
11 17	3 50.75	+34 55.8	1.994	2.955	5.5	19.3	11 17	3 51.20	+13 29.8	1.018	2.002	3.7	15.9
11 27	3 40.82	+34 36.4	1.999	2.962	5.0	19.3	11 27	3 40.33	+13 37.4	1.034	2.012	5.2	16.0
12 7	3 31.68	+34 3.5	2.031	2.970	7.0	19.4	12 7	3 30.77	+13 54.5	1.074	2.022	10.4	16.3
12 17	3 24.32	+33 21.9	2.091	2.977	9.8	19.6	12 17	3 23.89	+14 22.4	1.137	2.033	15.3	16.7
12 27	3 19.44	+32 37.8	2.175	2.984	12.6	19.8	12 27	3 20.50	+15 1.5	1.219	2.045	19.5	17.0
<b>320175</b>	2007 GA <sub>23</sub>		11 21.1 223°63	0°9/21.5	17		<b>486622</b>	2013 LD <sub>12</sub>		11 21.1 70°62	5°7/18.8	18	
10 18	4 12.53	+22 57.4	2.411	3.233	11.6	21.5	10 18	4 13.22	+ 1 47.3	2.192	3.017	12.5	20.4
10 28	4 6.85	+23 5.1	2.326	3.229	8.7	21.3	10 28	4 7.04	+ 1 29.1	2.147	3.040	9.8	20.3
11 7	3 59.28	+23 6.7	2.266	3.224	5.4	21.1	11 7	3 59.20	+ 1 19.8	2.125	3.063	7.2	20.2
11 17	3 50.46	+23 2.2	2.234	3.219	1.9	20.8	11 17	3 50.40	+ 1 22.5	2.132	3.086	5.8	20.2
11 27	3 41.24	+22 52.5	2.232	3.214	2.2	20.8	11 27	3 41.50	+ 1 39.0	2.167	3.109	6.5	20.2
12 7	3 32.57	+22 40.0	2.261	3.208	5.7	21.1	12 7	3 33.37	+ 2 9.7	2.230	3.131	8.6	20.4
12 17	3 25.26	+22 27.2	2.317	3.203	9.0	21.3	12 17	3 26.70	+ 2 53.5	2.320	3.154	11.1	20.6
12 27	3 19.94	+22 17.5	2.399	3.197	11.9	21.4	12 27	3 21.98	+ 3 48.6	2.433	3.176	13.3	20.8
<b>99892</b>	2002 QL		11 21.1 148°01	4°1/24.5	18		<b>435428</b>	2008 CW <sub>39</sub>		11 21.1 335°41	5°9/18.9	18	
10 18	4 13.12	+36 59.1	2.652	3.425	12.0	19.4	10 18	4 9.62	+11 11.2	1.043	1.924	18.9	20.9
10 28	4 7.15	+36 39.3	2.569	3.429	9.6	19.3	10 28	4 6.41	+10 18.6	0.976	1.909	14.5	20.6
11 7	3 59.35	+36 3.9	2.510	3.433	7.1	19.1	11 7	3 59.81	+ 9 26.1	0.929	1.895	9.6	20.3
11 17	3 50.44	+35 12.3	2.478	3.437	4.8	19.0	11 17	3 50.76	+ 8 40.8	0.903	1.882	6.0	20.0
11 27	3 41.35	+34 6.1	2.476	3.440	4.2	18.9	11 27	3 40.87	+ 8 10.9	0.900	1.870	7.8	20.1
12 7	3 33.01	+32 49.3	2.505	3.444	5.8	19.0	12 7	3 32.02	+ 8 2.5	0.919	1.860	12.8	20.3
12 17	3 26.18	+31 27.7	2.562	3.447	8.3	19.2	12 17	3 25.73	+ 8 18.1	0.959	1.851	17.9	20.6
12 27	3 21.42	+30 7.0	2.646	3.450	10.8	19.4	12 27	3 23.03	+ 8 56.8	1.015	1.844	22.3	20.8
<b>265251</b>	2004 ED <sub>46</sub>		11 21.1 250°85	4°0/19.2	18		<b>284821</b>	2008 YS <sub>170</sub>		11 21.1 2°40	6°0/19.7	18	
10 18	4 13.71	+13 8.0	1.534	2.387	15.5	20.7	10 18	4 12.23	+ 6 41.2	1.203	2.069	17.9	19.2
10 28	4 8.41	+12 11.1	1.462	2.381	11.6	20.4	10 28	4 7.80	+ 6 36.1	1.145	2.067	13.8	19.0
11 7	4 0.50	+11 11.6	1.413	2.375	7.4	20.2	11 7	4 0.35	+ 6 40.8	1.107	2.067	9.4	18.7
11 17	3 50.85	+10 14.7	1.390	2.369	4.2	20.0	11 17	3 50.85	+ 6 59.6	1.092	2.067	6.2	18.5
11 27	3 40.72	+ 9 26.4	1.394	2.363	5.7	20.0	11 27	3 40.80	+ 7 35.3	1.102	2.069	7.3	18.6
12 7	3 31.47	+ 8 52.1	1.424	2.357	9.9	20.3	12 7	3 31.81	+ 8 28.0	1.136	2.073	11.4	18.9
12 17	3 24.21	+ 8 35.2	1.479	2.351	14.1	20.5	12 17	3 25.18	+ 9 35.9	1.192	2.078	15.7	19.1
12 27	3 19.72	+ 8 36.8	1.555	2.344	17.7	20.7	12 27	3 21.76	+10 56.0	1.268	2.084	19.5	19.4
<b>363077</b>	2000 QK		11 21.1 65°96	1°2/20.6	18		<b>377262</b>	2004 CF <sub>118</sub>		11 21.1 335°30	6°2/18.8	18	
10 18	4 18.57	+19 7.5	1.180	2.038	18.9	20.6	10 18	4 12.83	+ 8 31.8	1.292	2.155	17.2	20.3
10 28	4 12.24	+18 43.0	1.139	2.060	13.9	20.3	10 28	4 8.11	+ 7 40.4	1.228	2.149	13.2	20.1
11 7	4 2.78	+18 11.5	1.117	2.084	8.3	20.1	11 7	4 0.49	+ 6 52.8	1.185	2.144	9.0	19.8
11 17	3 51.46	+17 35.7	1.120	2.107	2.5	19.8	11 17	3 50.89	+ 6 15.4	1.166	2.139	6.3	19.7
11 27	3 40.02	+17 0.6	1.149	2.130	4.0	20.0	11 27	3 40.74	+ 5 54.5	1.172	2.135	7.8	19.7
12 7	3 30.16	+16 31.7	1.204	2.153	9.4	20.4	12 7	3 31.57	+ 5 54.2	1.203	2.131	11.8	20.0
12 17	3 23.05	+16 13.7	1.282	2.176	14.1	20.7	12 17	3 24.65	+ 6 15.5	1.256	2.128	16.0	20.2
12 27	3 19.33	+16 9.1	1.381	2.199	18.0	21.0	12 27	3 20.82	+ 6 56.7	1.328	2.125	19.7	20.4
<b>425918</b>	2011 FA <sub>154</sub>		11 21.1 64°14	5°5/19.1	18		<b>203203</b>	2001 DJ <sub>40</sub>		11 21.1 332°68	4°1/19.4	18	
10 18	4 15.97	+ 8 27.7	1.387	2.240	16.8	20.0	10 18	4 11.11	+12 25.5	1.468	2.327	15.7	19.6
10 28	4 9.84	+ 7 46.4	1.346	2.262	12.7	19.8	10 28	4 6.62	+11 44.6	1.396	2.318	11.8	19.4
11 7	4 1.15	+ 7 10.7	1.328	2.285	8.5	19.6	11 7	3 59.51	+11 3.1	1.347	2.310	7.6	19.1
11 17	3 50.97	+ 6 45.4	1.334	2.308	5.6	19.5	11 17	3 50.60	+10 25.5	1.322	2.302	4.2	18.9
11 27	3 40.70	+ 6 35.0	1.367	2.330	6.9	19.6	11 27	3 41.15	+ 9 57.1	1.324	2.295	5.7	19.0
12 7	3 31.67	+ 6 41.6	1.426	2.353	10.4	19.9	12 7	3 32.55	+ 9 42.2	1.352	2.289	9.9	19.2
12 17	3 24.88	+ 7 5.1	1.509	2.376	14.1	20.2	12 17	3 25.93	+ 9 43.5	1.404	2.283	14.2	19.4
12 27	3 20.94	+ 7 43.8	1.612	2.399	17.3	20.4	12 27	3 22.10	+10 1.6	1.476	2.278	17.8	19.7
<b>159805</b>	2003 SG <sub>29</sub>		11 21.1 93°38	4°0/23.5	18		<b>436172</b>	2009 VG <sub>110</sub>		11 21.1 24°24	3°0/20.3	18	
10 18	4 13.19	+33 14.6	2.309	3.104	12.9	19.8	10 18	4 15.89	+12 47.0	1.239	2.100	17.9	20.1
10 28	4 7.48	+33 24.9	2.233	3.110	10.2	19.7	10 28	4 10.47	+12 55.0	1.182	2.105	13.4	19.9
11 7	3 59.70	+33 21.6	2.181	3.115	7.2	19.5	11 7	4 1.93	+13 5.6	1.146	2.111	8.3	19.6
11 17	3 50.58	+33 3.6	2.155	3.121	4.7	19.3	11 17	3 51.30	+13 20.7	1.133	2.117	3.6	19.3
11 27	3 41.15	+32 31.5	2.158	3.127	4.2	19.3	11 27	3 40.18	+13 42.1	1.147	2.124	4.9	19.4
12 7	3 32.45	+31 48.7	2.190	3.132	6.3	19.5	12 7	3 30.22	+14 11.3	1.186	2.132	9.9	19.8
12 17	3 25.38	+31 0.0	2.250	3.138	9.2	19.7	12 17	3 22.75	+14 49.1	1.248	2.141	14.6	20.1
12 27	3 20.56	+30 10.9	2.335	3.143	11.9	19.8	12 27	3 18.61	+15 35.6	1.331	2.150	18.6	20.3
<b>516732</b>	2009 EN <sub>5</sub>		11 21.1 201°46	2°1/20.0	18		<b>437998</b>	2003 UA <sub>126</sub>		11 21.1 45°41	2°4/20.2	16	
10 18	4 13.45	+14 37.6	2.078	2.914	12.6	22.1	10 18	4 14.17	+15 51.6	1.356	2.214	16.8	20.6
10 28	4 7.64	+14 18.5	2.001	2.912	9.4	21.8	10 28	4 8.68	+15 25.0	1.313	2.235	12.4	20.4
11 7	3 59.80	+13 57.9	1.948	2.909	5.8	21.6	11 7	4 0.54	+14 55.9	1.291	2.257	7.5	20.2
11 17	3 50.62	+13 38.0	1.923	2.906	2.5	21.4	11 17	3 50.83	+14 27.6	1.295	2.279	2.9	20.0
11 27	3 41.08	+13 21.3	1.927	2.903	3.6	21.5	11 27	3 40.97	+14 4.2	1.324	2.302	4.3	20.1
12 7	3 32.17	+13 10.8	1.961	2.899	7.3	21.7	12 7	3 32.36	+13 49.8	1.381	2.326	8.9	20.4
12 17	3 24.80	+13 8.6	2.022	2.895	10.8	21.9	12 17	3 26.03	+13 46.8	1.461	2.349	13.1	20.7
12 27	3 19.60	+13 16.2	2.106	2.890	13.8	22.1	12 27	3 22.60	+13 56.4	1.563	2.373	16.6	21.0
<b>36049</b>	1999 RB <sub>18</sub>		11 21.1 250°18	0°1/21.1	18		<b>198809</b>	2005 EG <sub>201</sub>		11 21.1 289°00	4°5/19.5	18	
10 18	4 11.52	+21 33.2											

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>15263</b>	Erwingroten		11 21.1 288°35	1.2°/21.5	18		<b>519756</b>	2013 CE <sub>228</sub>		11 21.1 328°84	7°4/16.8	18	
10 18	4 15.07	+23 7.6	1.545	2.386	16.0	18.3	10 18	4 10.09	+3 20.9	1.793	2.637	14.0	21.0
10 28	4 9.79	+23 12.6	1.461	2.373	12.1	18.0	10 28	4 5.31	+1 57.4	1.730	2.634	11.1	20.8
11 7	4 1.57	+23 8.5	1.399	2.361	7.6	17.7	11 7	3 58.46	+0 40.1	1.691	2.632	8.5	20.6
11 17	3 51.25	+22 54.9	1.363	2.348	2.7	17.4	11 17	3 50.29	-0 23.9	1.679	2.629	7.4	20.6
11 27	3 40.18	+22 33.3	1.354	2.335	3.2	17.4	11 27	3 41.79	-1 8.6	1.692	2.627	8.6	20.6
12 7	3 29.90	+22 7.8	1.371	2.323	8.2	17.7	12 7	3 34.02	-1 30.3	1.732	2.625	11.2	20.8
12 17	3 21.75	+21 43.5	1.414	2.310	12.9	17.9	12 17	3 27.87	-1 28.2	1.795	2.623	14.1	21.0
12 27	3 16.67	+21 25.8	1.479	2.298	17.0	18.2	12 27	3 23.95	-1 4.2	1.879	2.621	16.7	21.2
<b>396751</b>	2003 SZ <sub>395</sub>		11 21.1 4°38	11°6/13.4	18		<b>211759</b>	2004 BC <sub>16</sub>		11 21.1 276°96	7°0/17.9	18	
10 18	4 9.59	-4 15.8	1.569	2.406	16.0	20.9	10 18	4 12.34	+1 55.2	1.884	2.719	13.8	20.0
10 28	4 5.12	-6 33.3	1.522	2.406	13.6	20.7	10 28	4 6.98	+1 12.4	1.811	2.710	11.0	19.8
11 7	3 58.39	-8 36.5	1.498	2.406	12.0	20.6	11 7	3 59.51	+0 38.2	1.762	2.701	8.4	19.7
11 17	3 50.23	-10 14.8	1.497	2.407	11.7	20.6	11 17	3 50.62	+0 17.8	1.738	2.691	7.0	19.6
11 27	3 41.77	-11 19.6	1.521	2.408	13.0	20.7	11 27	3 41.31	+0 15.2	1.742	2.682	8.0	19.6
12 7	3 34.18	-11 47.6	1.567	2.409	15.1	20.8	12 7	3 32.65	+0 32.6	1.773	2.673	10.6	19.7
12 17	3 28.37	-11 40.3	1.633	2.411	17.5	21.0	12 17	3 25.56	+1 9.5	1.828	2.664	13.5	19.9
12 27	3 25.02	-11 2.2	1.716	2.413	19.6	21.2	12 27	3 20.72	+2 3.7	1.904	2.654	16.3	20.1
<b>383818</b>	2008 CL <sub>106</sub>		11 21.1 89°94	2°2/20.3	18		<b>106418</b>	2000 VU <sub>35</sub>		11 21.1 11°50	1°9/20.3	18	
10 18	4 17.42	+15 23.3	1.414	2.264	16.7	20.8	10 18	4 6.79	+20 35.5	0.845	1.737	21.1	17.6
10 28	4 11.22	+15 11.4	1.357	2.275	12.4	20.6	10 28	4 4.60	+19 34.5	0.800	1.740	15.7	17.3
11 7	4 2.19	+14 57.5	1.321	2.286	7.5	20.3	11 7	3 58.72	+18 19.7	0.773	1.745	9.4	17.0
11 17	3 51.36	+14 44.0	1.311	2.296	2.9	20.1	11 17	3 50.44	+16 58.0	0.766	1.753	3.0	16.6
11 27	3 40.17	+14 34.1	1.329	2.307	4.3	20.2	11 27	3 41.73	+15 39.7	0.781	1.762	5.0	16.8
12 7	3 30.13	+14 31.0	1.373	2.317	9.0	20.5	12 7	3 34.57	+14 35.7	0.817	1.774	11.3	17.2
12 17	3 22.40	+14 37.4	1.442	2.328	13.5	20.8	12 17	3 30.35	+13 53.0	0.874	1.787	16.9	17.6
12 27	3 17.72	+14 54.6	1.533	2.338	17.1	21.1	12 27	3 29.85	+13 34.5	0.948	1.802	21.5	17.9
<b>358205</b>	2006 SJ <sub>173</sub>		11 21.1 38°43	3°3/22.6	18		<b>300406</b>	2007 RF <sub>281</sub>		11 21.1 104°19	1°7/22.2	18	
10 18	4 14.68	+28 55.0	1.807	2.627	14.9	20.6	10 18	4 14.93	+28 3.8	1.860	2.681	14.5	20.3
10 28	4 9.06	+29 12.0	1.734	2.630	11.5	20.4	10 28	4 8.90	+27 21.2	1.793	2.692	11.0	20.1
11 7	4 0.88	+29 16.4	1.684	2.633	7.7	20.2	11 7	4 0.59	+26 24.1	1.749	2.703	7.0	19.9
11 17	3 51.00	+29 6.8	1.659	2.636	4.2	20.0	11 17	3 50.91	+25 13.9	1.732	2.715	2.9	19.7
11 27	3 40.65	+28 43.8	1.662	2.639	3.9	20.0	11 27	3 41.04	+23 55.0	1.744	2.726	2.8	19.7
12 7	3 31.18	+28 11.4	1.694	2.642	7.2	20.2	12 7	3 32.18	+22 34.0	1.786	2.736	6.8	20.0
12 17	3 23.67	+27 34.4	1.752	2.645	11.0	20.4	12 17	3 25.25	+21 17.6	1.856	2.747	10.6	20.2
12 27	3 18.90	+26 59.3	1.833	2.649	14.3	20.6	12 27	3 20.85	+20 11.7	1.950	2.757	13.9	20.4
<b>142970</b>	2002 VG <sub>82</sub>		11 21.1 12°79	5°0/19.6	18		<b>493542</b>	2015 GJ <sub>50</sub>		11 21.1 122°71	1°4/20.4	18	
10 18	4 10.88	+9 17.8	1.270	2.137	17.1	18.6	10 18	4 16.05	+17 38.8	1.831	2.667	14.1	22.2
10 28	4 6.57	+9 1.2	1.218	2.142	13.0	18.3	10 28	4 9.67	+17 15.2	1.769	2.681	10.4	22.0
11 7	3 59.48	+8 50.1	1.186	2.148	8.5	18.1	11 7	4 1.06	+16 47.4	1.731	2.694	6.3	21.8
11 17	3 50.59	+8 48.7	1.177	2.156	5.2	18.0	11 17	3 51.06	+16 17.3	1.721	2.706	2.1	21.6
11 27	3 41.31	+9 0.4	1.194	2.165	6.4	18.1	11 27	3 40.83	+15 48.4	1.740	2.718	3.3	21.7
12 7	3 33.11	+9 27.0	1.236	2.175	10.5	18.3	12 7	3 31.51	+15 24.2	1.787	2.730	7.4	22.0
12 17	3 27.13	+10 8.0	1.301	2.186	14.6	18.6	12 17	3 24.03	+15 7.9	1.862	2.741	11.2	22.2
12 27	3 24.12	+11 2.0	1.386	2.199	18.2	18.9	12 27	3 19.04	+15 1.9	1.960	2.752	14.4	22.5
<b>328859</b>	2009 WL <sub>178</sub>		11 21.1 246°19	0°8/20.5	17		<b>517475</b>	2014 PH <sub>73</sub>		11 21.1 60°96	5°7/18.4	18	
10 18	4 9.72	+19 53.0	2.339	3.173	11.5	21.0	10 18	4 10.84	+3 52.9	2.080	2.915	12.7	20.8
10 28	4 4.71	+19 10.5	2.259	3.170	8.5	20.8	10 28	4 5.48	+3 14.7	2.030	2.932	9.8	20.6
11 7	3 57.97	+18 21.7	2.204	3.166	5.1	20.5	11 7	3 58.39	+2 43.7	2.004	2.948	7.2	20.5
11 17	3 50.12	+17 28.8	2.177	3.163	1.6	20.3	11 17	3 50.26	+2 23.8	2.005	2.964	5.7	20.4
11 27	3 41.99	+16 35.5	2.180	3.159	2.6	20.4	11 27	3 41.98	+2 18.0	2.035	2.980	6.6	20.5
12 7	3 34.46	+15 45.7	2.213	3.156	6.2	20.6	12 7	3 34.44	+2 27.8	2.092	2.997	8.9	20.7
12 17	3 28.26	+15 3.0	2.274	3.152	9.5	20.8	12 17	3 28.35	+2 52.9	2.174	3.014	11.5	20.9
12 27	3 23.96	+14 30.5	2.359	3.149	12.3	21.0	12 27	3 24.24	+3 31.8	2.279	3.030	13.9	21.1
<b>387651</b>	2002 RG <sub>58</sub>		11 21.1 118°60	18°2/28.9	17		<b>267793</b>	2003 SH <sub>218</sub>		11 21.1 307°65	5°0/23.7	17	
10 18	4 38.13	+53 30.2	1.181	1.911	26.1	20.6	10 18	4 14.55	+34 35.3	2.232	3.022	13.4	20.4
10 28	4 30.80	+55 57.2	1.130	1.920	23.6	20.4	10 28	4 8.81	+35 10.3	2.149	3.019	10.8	20.2
11 7	4 16.29	+57 49.0	1.093	1.929	21.2	20.3	11 7	4 0.73	+35 32.0	2.088	3.016	8.0	20.1
11 17	3 55.93	+58 47.1	1.073	1.937	19.2	20.2	11 17	3 51.04	+35 37.4	2.054	3.012	5.6	19.9
11 27	3 33.51	+58 39.1	1.072	1.945	18.3	20.1	11 27	3 40.83	+35 25.8	2.048	3.009	5.1	19.9
12 7	3 13.84	+57 28.9	1.089	1.953	18.7	20.2	12 7	3 31.29	+34 59.7	2.070	3.006	7.1	20.0
12 17	3 0.35	+55 33.4	1.125	1.960	20.2	20.3	12 17	3 23.44	+34 23.5	2.120	3.003	9.9	20.2
12 27	2 54.26	+53 15.8	1.179	1.967	22.2	20.5	12 27	3 18.05	+33 43.3	2.194	3.000	12.6	20.3
<b>390568</b>	2001 FX <sub>93</sub>		11 21.1 234°89	2°2/20.1	18		<b>346216</b>	2007 YW <sub>44</sub>		11 21.1 228°73	13°3/27.9	17	
10 18	4 14.31	+14 11.6	2.059	2.894	12.8	20.9	10 18	4 27.65	+49 4.4	1.310	2.062	22.9	20.6
10 28	4 8.40	+13 59.1	1.973	2.884	9.6	20.7	10 28	4 21.08	+49 58.2	1.234	2.056	20.2	20.4
11 7	4 0.36	+13 45.6	1.913	2.874	5.9	20.5	11 7	4 9.32	+50 18.1	1.174	2.050	17.2	20.2
11 17	3 50.86	+13 33.1	1.880	2.863	2.6	20.2	11 17	3 53.73	+49 51.6	1.132	2.043	14.5	20.0
11 27	3 40.88	+13 24.0	1.876	2.852	3.7	20.3	11 27	3 37.05	+48 32.8	1.112	2.035	13.3	19.9
12 7	3 31.48	+13 20.8	1.902	2.840	7.4	20.5	12 7	3 22.35	+46 27.3	1.115	2.028	14.2	20.0
12 17	3 23.62	+13 25.5	1.955	2.828	11.1	20.7	12 17	3 11.91	+43 51.3	1.141	2.019	16.8	20.1
12 27	3 17.98	+13 39.6	2.032	2.816	14.3	20.9	12 27	3 6.76	+41 5.4	1.188	2.011	20.1	20.3
<b>83192</b>	2001 QY <sub>327</sub>		11 21.1 54°77	1°7/21.8	18		<b>439505</b>	2014 BD <sub>8</sub>		11 21.1 237°18	0°6/21.4	18	
10 18	4 14.56	+24											

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>95235</b>	2002 <i>CL</i> <sub>39</sub>		11 21.1 153°29	0°1/21.0	18		<b>82166</b>	2001 <i>HA</i> <sub>2</sub>		11 21.1 156°93	2°4/22.0	18	
10 18	4 11.82	+21 1.2	2.125	2.958	12.5	20.0	10 18	4 19.20	+25 36.1	1.669	2.494	15.7	19.9
10 28	4 6.47	+20 43.6	2.049	2.959	9.3	19.8	10 28	4 12.60	+25 58.9	1.597	2.499	12.0	19.6
11 7	3 59.14	+20 19.5	1.998	2.959	5.6	19.6	11 7	4 3.16	+26 11.7	1.548	2.503	7.7	19.4
11 17	3 50.54	+19 50.3	1.974	2.960	1.7	19.3	11 17	3 51.80	+26 12.6	1.524	2.506	3.5	19.1
11 27	3 41.62	+19 18.6	1.980	2.961	2.4	19.4	11 27	3 39.90	+26 2.0	1.529	2.509	3.5	19.2
12 7	3 33.37	+18 47.7	2.015	2.962	6.4	19.7	12 7	3 28.94	+25 43.4	1.563	2.512	7.7	19.4
12 17	3 26.64	+18 21.3	2.077	2.963	9.9	19.9	12 17	3 20.18	+25 21.7	1.623	2.514	11.8	19.7
12 27	3 22.05	+18 2.3	2.164	2.963	13.0	20.1	12 27	3 14.43	+25 2.5	1.705	2.516	15.4	19.9
<b>9672</b>	Rosenbergerezek		11 21.1 17°44	0°8/21.5	18		<b>111983</b>	2002 <i>GE</i> <sub>95</sub>		11 21.1 110°98	2°5/22.2	18	
10 18	4 11.25	+22 44.0	2.190	3.020	12.3	17.8	10 18	4 18.75	+27 12.8	1.485	2.315	17.1	19.9
10 28	4 6.05	+22 44.2	2.114	3.021	9.2	17.6	10 28	4 12.37	+27 9.6	1.423	2.326	13.0	19.7
11 7	3 58.90	+22 37.7	2.063	3.022	5.7	17.4	11 7	4 3.01	+26 52.2	1.382	2.337	8.4	19.4
11 17	3 50.48	+22 25.0	2.039	3.024	1.9	17.2	11 17	3 51.73	+26 19.8	1.366	2.347	3.7	19.2
11 27	3 41.72	+22 7.6	2.044	3.026	2.3	17.2	11 27	3 40.08	+25 35.0	1.377	2.358	3.6	19.2
12 7	3 33.59	+21 48.2	2.079	3.028	6.0	17.5	12 7	3 29.65	+24 43.8	1.416	2.367	8.0	19.5
12 17	3 26.94	+21 30.1	2.141	3.030	9.5	17.7	12 17	3 21.68	+23 53.4	1.481	2.377	12.5	19.8
12 27	3 22.39	+21 16.4	2.227	3.032	12.5	17.9	12 27	3 16.91	+23 10.4	1.568	2.386	16.2	20.0
<b>96449</b>	1998 <i>GA</i> <sub>1</sub>		11 21.1 251°68	0°3/20.9	18		<b>329459</b>	2002 <i>PF</i> <sub>196</sub>		11 21.1 46°71	2°0/21.7	18	
10 18	4 14.59	+20 1.0	1.783	2.621	14.3	19.7	10 18	4 18.76	+22 47.9	1.229	2.079	18.7	20.1
10 28	4 8.98	+19 52.8	1.702	2.614	10.7	19.4	10 28	4 12.82	+23 25.3	1.176	2.092	14.1	19.9
11 7	4 0.90	+19 38.5	1.644	2.606	6.5	19.2	11 7	4 3.48	+23 54.1	1.143	2.105	8.8	19.6
11 17	3 51.11	+19 19.0	1.612	2.598	1.9	18.8	11 17	3 51.90	+24 12.0	1.134	2.118	3.4	19.3
11 27	3 40.79	+18 56.7	1.609	2.590	2.9	18.9	11 27	3 39.83	+24 19.1	1.151	2.133	3.7	19.4
12 7	3 31.19	+18 35.2	1.634	2.582	7.5	19.2	12 7	3 29.12	+24 18.7	1.194	2.147	8.9	19.7
12 17	3 23.42	+18 18.5	1.686	2.574	11.7	19.4	12 17	3 21.18	+24 16.0	1.261	2.162	13.8	20.1
12 27	3 18.25	+18 9.8	1.761	2.565	15.3	19.6	12 27	3 16.84	+24 16.2	1.348	2.177	17.8	20.4
<b>244015</b>	2001 <i>SQ</i> <sub>119</sub>		11 21.1 90°29	1°8/22.1	18		<b>50477</b>	2000 <i>DE</i> <sub>74</sub>		11 21.1 29°51	2°0/20.1	18	
10 18	4 14.93	+26 41.3	1.984	2.804	13.8	20.5	10 18	4 11.99	+16 42.8	1.698	2.546	14.4	19.4
10 28	4 8.80	+26 30.8	1.923	2.822	10.4	20.3	10 28	4 6.93	+16 7.1	1.631	2.549	10.7	19.2
11 7	4 0.51	+26 9.3	1.886	2.840	6.6	20.1	11 7	3 59.56	+15 27.2	1.588	2.552	6.5	18.9
11 17	3 50.93	+25 37.1	1.876	2.858	2.8	19.9	11 17	3 50.71	+14 46.3	1.571	2.555	2.5	18.7
11 27	3 41.15	+24 56.7	1.895	2.875	2.7	20.0	11 27	3 41.51	+14 8.4	1.582	2.559	3.9	18.8
12 7	3 32.30	+24 12.3	1.944	2.893	6.4	20.2	12 7	3 33.16	+13 38.0	1.620	2.563	8.1	19.1
12 17	3 25.25	+23 28.9	2.020	2.910	9.9	20.5	12 17	3 26.63	+13 18.6	1.684	2.567	12.0	19.3
12 27	3 20.61	+22 51.2	2.120	2.926	13.0	20.7	12 27	3 22.60	+13 12.1	1.771	2.571	15.4	19.5
<b>139138</b>	2001 <i>FM</i> <sub>83</sub>		11 21.1 177°58	1°8/21.9	18		<b>319992</b>	2007 <i>DY</i> <sub>9</sub>		11 21.1 169°44	4°7/23.8	17	
10 18	4 18.17	+25 33.4	1.781	2.604	15.0	21.1	10 18	4 15.42	+34 46.3	2.380	3.165	12.9	21.4
10 28	4 11.64	+25 33.8	1.705	2.606	11.4	20.8	10 28	4 9.27	+35 14.8	2.300	3.166	10.3	21.3
11 7	4 2.48	+25 23.3	1.652	2.608	7.2	20.6	11 7	4 0.93	+35 30.1	2.242	3.168	7.6	21.1
11 17	3 51.56	+25 1.3	1.626	2.609	3.0	20.3	11 17	3 51.12	+35 29.6	2.211	3.169	5.3	21.0
11 27	3 40.18	+24 29.7	1.628	2.609	3.0	20.3	11 27	3 40.88	+35 13.1	2.209	3.170	4.8	20.9
12 7	3 29.69	+23 52.5	1.659	2.608	7.3	20.6	12 7	3 31.31	+34 43.0	2.235	3.171	6.7	21.1
12 17	3 21.24	+23 15.2	1.718	2.607	11.4	20.9	12 17	3 23.38	+34 3.9	2.290	3.171	9.3	21.2
12 27	3 15.60	+22 43.4	1.799	2.606	14.9	21.1	12 27	3 17.78	+33 21.4	2.369	3.172	11.9	21.4
<b>218107</b>	2002 <i>OM</i> <sub>16</sub>		11 21.1 149°98	0°6/20.8	16		<b>282921</b>	2007 <i>OA</i> <sub>6</sub>		11 21.1 133°05	3°2/19.6	18	
10 18	4 16.91	+21 6.5	1.711	2.546	15.0	21.0	10 18	4 14.91	+11 50.5	1.946	2.783	13.3	20.6
10 28	4 10.54	+20 27.1	1.643	2.554	11.1	20.8	10 28	4 8.73	+11 24.9	1.883	2.793	10.0	20.4
11 7	4 1.70	+19 38.8	1.599	2.561	6.7	20.6	11 7	4 0.49	+11 0.2	1.844	2.803	6.3	20.3
11 17	3 51.30	+18 43.9	1.582	2.568	2.0	20.3	11 17	3 50.97	+10 39.1	1.833	2.812	3.4	20.1
11 27	3 40.61	+17 46.9	1.593	2.574	3.1	20.4	11 27	3 41.18	+10 24.9	1.850	2.821	4.5	20.2
12 7	3 30.91	+16 53.5	1.634	2.580	7.7	20.7	12 7	3 32.19	+10 19.9	1.897	2.829	7.9	20.4
12 17	3 23.22	+16 9.0	1.701	2.584	11.9	20.9	12 17	3 24.86	+10 25.8	1.971	2.837	11.3	20.6
12 27	3 18.23	+15 37.0	1.791	2.589	15.3	21.2	12 27	3 19.81	+10 43.1	2.067	2.844	14.3	20.9
<b>238258</b>	2003 <i>WG</i> <sub>2</sub>		11 21.1 155°65	1°0/21.6	18		<b>239117</b>	2006 <i>HM</i> <sub>94</sub>		11 21.1 350°62	5°6/16.9	18	
10 18	4 15.79	+23 32.3	2.162	2.982	12.8	21.0	10 18	4 7.98	+ 6 58.9	2.134	2.978	12.1	20.1
10 28	4 9.40	+23 35.0	2.087	2.988	9.6	20.8	10 28	4 3.50	+ 5 27.9	2.068	2.976	9.3	20.0
11 7	4 0.92	+23 30.2	2.038	2.994	6.0	20.6	11 7	3 57.31	+ 3 58.9	2.026	2.974	6.8	19.8
11 17	3 51.08	+23 17.8	2.016	3.000	2.2	20.4	11 17	3 50.03	+ 2 37.8	2.013	2.972	5.6	19.7
11 27	3 40.91	+22 59.3	2.024	3.005	2.4	20.4	11 27	3 42.50	+ 1 30.6	2.028	2.971	6.8	19.8
12 7	3 31.46	+22 37.6	2.062	3.010	6.2	20.6	12 7	3 35.59	+ 0 41.5	2.071	2.970	9.3	20.0
12 17	3 23.64	+22 16.3	2.128	3.014	9.7	20.9	12 17	3 30.01	+ 0 12.5	2.139	2.969	12.0	20.1
12 27	3 18.09	+21 59.0	2.219	3.017	12.7	21.1	12 27	3 26.31	+ 0 3.4	2.228	2.969	14.5	20.3
<b>446707</b>	2015 <i>OV</i> <sub>32</sub>		11 21.1 62°17	3°1/19.9	18		<b>269470</b>	2009 <i>TF</i> <sub>20</sub>		11 21.1 35°06	0°5/21.3	18	
10 18	4 14.90	+11 46.1	1.700	2.544	14.6	20.5	10 18	4 15.24	+21 15.8	1.108	1.972	19.3	19.9
10 28	4 8.93	+11 39.3	1.645	2.559	10.9	20.3	10 28	4 10.23	+21 19.6	1.063	1.987	14.4	19.6
11 7	4 0.67	+11 34.6	1.613	2.574	6.8	20.1	11 7	4 1.88	+21 14.4	1.038	2.004	8.7	19.4
11 17	3 51.00	+11 34.2	1.608	2.589	3.4	19.9	11 17	3 51.42	+21 0.9	1.035	2.021	2.7	19.1
11 27	3 41.07	+11 40.4	1.630	2.604	4.5	20.0	11 27	3 40.64	+20 42.3	1.057	2.040	3.5	19.2
12 7	3 32.08	+11 55.0	1.681	2.619	8.3	20.3	12 7	3 31.35	+20 23.6	1.104	2.059	9.2	19.6
12 17	3 24.97	+12 18.7	1.758	2.634	12.0	20.6	12 17	3 24.86	+20 10.1	1.174	2.079	14.2	19.9
12 27	3 20.37	+12 51.7	1.858	2.650	15.1	20.8	12 27	3 21.88	+20 6.0	1.264	2.100	18.3	20.3
<b>49265</b>	1998 <i>UM</i> <sub>3</sub>		11 21.1 27°55	0°6/20.9	18		<b>179221</b>	2001 <i>TP</i> <sub>244</sub>		11			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>515528</b>	2014 <i>FW</i> <sub>73</sub>		11 21.1 166°04	0°9/20.6	18		<b>412684</b>	2014 <i>OT</i> <sub>231</sub>		11 21.1 82°43	4°7/23.9	18	
10 18	4 14.46	+17 50.7	2.314	3.141	11.8	22.2	10 18	4 14.90	+34 47.9	2.224	3.013	13.5	20.5
10 28	4 8.23	+17 38.7	2.239	3.146	8.8	22.0	10 28	4 8.92	+35 10.1	2.154	3.024	10.8	20.3
11 7	4 0.15	+17 23.2	2.189	3.150	5.3	21.8	11 7	4 0.73	+35 17.7	2.106	3.034	7.9	20.2
11 17	3 50.88	+17 5.4	2.168	3.154	1.7	21.6	11 17	3 51.09	+35 8.8	2.084	3.044	5.4	20.1
11 27	3 41.32	+16 47.5	2.178	3.157	2.6	21.7	11 27	3 41.12	+34 43.5	2.091	3.054	4.9	20.0
12 7	3 32.39	+16 32.1	2.218	3.160	6.2	21.9	12 7	3 31.96	+34 5.1	2.127	3.064	6.8	20.2
12 17	3 24.90	+16 21.6	2.286	3.162	9.6	22.1	12 17	3 24.55	+33 18.7	2.190	3.075	9.5	20.4
12 27	3 19.44	+16 18.1	2.379	3.164	12.4	22.3	12 27	3 19.55	+32 30.3	2.277	3.085	12.2	20.6
<b>367807</b>	2011 <i>AN</i> <sub>44</sub>		11 21.1 166°77	4°4/23.9	17		<b>73007</b>	2002 <i>ET</i> <sub>29</sub>		11 21.1 139°93	2°2/19.9	18	
10 18	4 13.41	+35 1.7	2.336	3.124	13.0	21.0	10 18	4 14.76	+14 51.0	2.107	2.940	12.6	20.9
10 28	4 7.77	+35 11.1	2.255	3.124	10.4	20.8	10 28	4 8.50	+14 20.6	2.042	2.951	9.3	20.7
11 7	4 0.01	+35 6.0	2.196	3.125	7.6	20.6	11 7	4 0.32	+13 48.4	2.002	2.962	5.7	20.5
11 17	3 50.86	+34 44.6	2.164	3.125	5.1	20.5	11 17	3 50.95	+13 16.8	1.990	2.973	2.5	20.3
11 27	3 41.35	+34 7.7	2.160	3.125	4.6	20.4	11 27	3 41.36	+12 48.9	2.008	2.983	3.6	20.4
12 7	3 32.55	+33 18.4	2.186	3.125	6.5	20.6	12 7	3 32.52	+12 28.0	2.056	2.992	7.1	20.7
12 17	3 25.38	+32 22.0	2.239	3.125	9.3	20.7	12 17	3 25.26	+12 16.2	2.132	3.001	10.5	20.9
12 27	3 20.50	+31 24.5	2.317	3.126	11.9	20.9	12 27	3 20.14	+12 15.1	2.231	3.009	13.3	21.1
<b>198595</b>	2005 <i>AD</i> <sub>5</sub>		11 21.1 53°50	2°7/19.9	18		<b>128792</b>	2004 <i>RM</i> <sub>218</sub>		11 21.1 326°40	3°8/23.3	17	
10 18	4 11.82	+12 6.6	2.112	2.951	12.4	19.7	10 18	4 10.72	+31 52.9	1.765	2.585	15.2	19.2
10 28	4 6.36	+11 58.0	2.048	2.960	9.2	19.5	10 28	4 6.43	+31 41.9	1.673	2.567	12.0	19.0
11 7	3 59.05	+11 50.8	2.008	2.968	5.8	19.3	11 7	3 59.53	+31 13.6	1.604	2.550	8.3	18.7
11 17	3 50.56	+11 46.7	1.996	2.977	2.9	19.2	11 17	3 50.81	+30 26.7	1.559	2.533	4.8	18.5
11 27	3 41.81	+11 48.0	2.013	2.986	3.9	19.3	11 27	3 41.49	+29 23.0	1.541	2.517	4.2	18.4
12 7	3 33.73	+11 56.3	2.059	2.995	7.1	19.5	12 7	3 32.93	+28 8.0	1.551	2.502	7.5	18.6
12 17	3 27.12	+12 12.7	2.132	3.004	10.3	19.7	12 17	3 26.29	+26 49.2	1.587	2.488	11.5	18.8
12 27	3 22.56	+12 37.7	2.229	3.014	13.1	19.9	12 27	3 22.41	+25 34.8	1.647	2.474	15.1	19.0
<b>157735</b>	2006 <i>BP</i> <sub>151</sub>		11 21.1 60°51	0°7/20.8	18		<b>358840</b>	2008 <i>FF</i> <sub>31</sub>		11 21.1 350°78	1°9/20.2	18	
10 18	4 12.05	+18 51.0	2.029	2.866	12.9	19.9	10 18	4 11.12	+17 1.3	1.715	2.564	14.3	20.8
10 28	4 6.61	+18 39.7	1.968	2.880	9.5	19.7	10 28	4 6.36	+16 27.9	1.643	2.562	10.6	20.6
11 7	3 59.21	+18 24.1	1.931	2.894	5.7	19.5	11 7	3 59.29	+15 50.0	1.595	2.559	6.4	20.3
11 17	3 50.60	+18 5.6	1.922	2.908	1.7	19.3	11 17	3 50.71	+15 10.5	1.572	2.558	2.4	20.1
11 27	3 41.77	+17 46.6	1.941	2.922	2.6	19.4	11 27	3 41.72	+14 33.5	1.578	2.556	3.7	20.2
12 7	3 33.70	+17 30.0	1.990	2.936	6.5	19.6	12 7	3 33.51	+14 3.3	1.611	2.555	8.0	20.4
12 17	3 27.22	+17 18.5	2.066	2.951	10.0	19.9	12 17	3 27.08	+13 43.5	1.670	2.554	12.0	20.7
12 27	3 22.91	+17 14.5	2.166	2.965	13.0	20.1	12 27	3 23.11	+13 36.3	1.751	2.554	15.4	20.9
<b>324811</b>	2007 <i>HW</i> <sub>59</sub>		11 21.1 134°07	1°4/21.8	18		<b>172259</b>	2002 <i>SF</i> <sub>26</sub>		11 21.1 79°65	2°6/19.9	18	
10 18	4 13.73	+24 1.1	2.326	3.145	12.0	20.8	10 18	4 15.20	+14 14.6	1.811	2.652	14.0	20.5
10 28	4 7.84	+24 19.5	2.248	3.148	9.1	20.7	10 28	4 8.92	+13 44.5	1.764	2.677	10.3	20.3
11 7	4 0.00	+24 31.4	2.196	3.151	5.7	20.5	11 7	4 0.57	+13 13.5	1.740	2.702	6.3	20.1
11 17	3 50.87	+24 36.0	2.171	3.154	2.3	20.2	11 17	3 51.02	+12 44.5	1.744	2.727	2.9	20.0
11 27	3 41.36	+24 34.1	2.177	3.157	2.4	20.3	11 27	3 41.37	+12 21.0	1.777	2.751	4.1	20.1
12 7	3 32.46	+24 27.6	2.212	3.160	5.8	20.5	12 7	3 32.70	+12 5.9	1.838	2.775	7.7	20.4
12 17	3 25.01	+24 19.4	2.276	3.163	9.1	20.7	12 17	3 25.85	+12 1.2	1.926	2.799	11.2	20.7
12 27	3 19.66	+24 12.7	2.364	3.165	12.0	20.9	12 27	3 21.36	+12 7.8	2.037	2.823	14.2	20.9
<b>495567</b>	2014 <i>WK</i> <sub>397</sub>		11 21.1 346°46	2°3/20.7	17		<b>479369</b>	2013 <i>XA</i> <sub>18</sub>		11 21.1 340°22	0°3/21.0	18	
10 18	4 18.94	+ 9 59.3	1.882	2.713	14.0	20.3	10 18	4 9.38	+21 40.2	1.085	1.958	18.9	20.7
10 28	4 12.13	+10 54.6	1.799	2.706	10.6	20.1	10 28	4 6.39	+21 12.8	1.015	1.945	14.3	20.4
11 7	4 2.83	+11 57.2	1.741	2.699	6.6	19.9	11 7	3 59.94	+20 32.6	0.964	1.932	8.8	20.0
11 17	3 51.76	+13 6.5	1.711	2.694	2.9	19.6	11 17	3 51.01	+19 41.8	0.934	1.921	2.6	19.6
11 27	3 40.04	+14 21.0	1.712	2.688	3.7	19.7	11 27	3 41.26	+18 46.2	0.929	1.911	3.9	19.7
12 7	3 28.93	+15 38.9	1.743	2.684	7.7	19.9	12 7	3 32.58	+17 53.9	0.946	1.903	10.1	20.0
12 17	3 19.53	+16 58.7	1.803	2.680	11.6	20.1	12 17	3 26.52	+17 12.5	0.986	1.895	15.8	20.3
12 27	3 12.68	+18 19.7	1.887	2.677	15.0	20.3	12 27	3 24.10	+16 47.9	1.044	1.890	20.6	20.6
<b>13491</b>	1984 <i>UJ</i> <sub>1</sub>		11 21.1 23°47	3°7/22.1	18		<b>394264</b>	2006 <i>UZ</i> <sub>104</sub>		11 21.1 118°77	1°3/20.4	18	
10 18	4 15.22	+24 42.8	0.944	1.814	21.4	16.8	10 18	4 14.10	+16 35.9	2.209	3.040	12.2	21.5
10 28	4 10.89	+25 39.8	0.902	1.827	16.3	16.6	10 28	4 7.96	+16 21.8	2.145	3.054	9.0	21.3
11 7	4 2.61	+26 24.3	0.878	1.841	10.5	16.3	11 7	3 59.98	+16 5.1	2.107	3.068	5.4	21.1
11 17	3 51.71	+26 52.2	0.875	1.858	5.0	16.1	11 17	3 50.87	+15 47.5	2.097	3.082	1.9	20.9
11 27	3 40.30	+27 3.0	0.896	1.876	4.9	16.1	11 27	3 41.55	+15 31.2	2.117	3.095	2.9	21.0
12 7	3 30.57	+27 0.9	0.939	1.896	10.1	16.5	12 7	3 32.95	+15 18.8	2.167	3.108	6.4	21.2
12 17	3 24.11	+26 52.9	1.003	1.917	15.2	16.9	12 17	3 25.86	+15 12.5	2.245	3.121	9.7	21.5
12 27	3 21.74	+26 46.2	1.087	1.939	19.5	17.2	12 27	3 20.82	+15 13.9	2.347	3.133	12.5	21.7
<b>26489</b>	2000 <i>AS</i> <sub>242</sub>		11 21.1 182°27	5°2/17.6	18		<b>485318</b>	2011 <i>BZ</i> <sub>32</sub>		11 21.1 253°71	4°8/18.3	17	
10 18	4 9.14	+ 2 48.1	2.715	3.540	10.3	19.0	10 18	4 9.70	+ 5 59.6	2.360	3.195	11.4	21.6
10 28	4 4.03	+ 2 2.2	2.647	3.540	8.1	18.8	10 28	4 4.70	+ 5 18.6	2.286	3.189	8.8	21.4
11 7	3 57.51	+ 1 21.8	2.604	3.540	6.1	18.7	11 7	3 58.04	+ 4 41.6	2.236	3.183	6.3	21.2
11 17	3 50.11	+ 0 50.5	2.589	3.540	5.2	18.6	11 17	3 50.32	+ 4 12.3	2.214	3.177	4.8	21.1
11 27	3 42.50	+ 0 31.4	2.604	3.539	5.9	18.7	11 27	3 42.29	+ 3 54.1	2.221	3.172	5.7	21.2
12 7	3 35.37	+ 0 26.2	2.647	3.539	7.9	18.8	12 7	3 34.78	+ 3 49.3	2.256	3.166	8.1	21.3
12 17	3 29.32	+ 0 35.3	2.717	3.537	10.1	19.0	12 17	3 28.51	+ 3 58.7	2.318	3.159	10.8	21.5
12 27	3 24.82	+ 0 58.1	2.809	3.536	12.1	19.1	12 27	3 24.02	+ 4 21.9	2.402	3.153	13.2	21.7
<b>394513</b>	2007 <i>TG</i> <sub>274</sub>		11 21.1 279°78	10°6/14.4	18		<b>487050</b>	2014 <					



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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>225140</b>	2008 <i>FC</i> <sub>101</sub>		11 21.1 60°32'	6°6'/18.4	18		<b>521876</b>	2015 <i>TS</i> <sub>379</sub>		11 21.1 100°41'	0°9'/20.6	18	
10 18	4 14.18	+ 7 49.4	1.334	2.192	17.0	20.0	10 18	4 12.57	+19 4.4	2.009	2.845	13.0	21.4
10 28	4 8.80	+ 6 39.9	1.288	2.205	13.0	19.8	10 28	4 7.06	+18 35.8	1.942	2.854	9.6	21.2
11 7	4 0.77	+ 5 35.4	1.263	2.218	9.0	19.6	11 7	3 59.55	+18 1.7	1.899	2.862	5.8	21.0
11 17	3 51.12	+ 4 43.2	1.262	2.232	6.7	19.6	11 17	3 50.79	+17 24.4	1.884	2.870	1.8	20.8
11 27	3 41.25	+ 4 9.8	1.288	2.245	8.0	19.7	11 27	3 41.77	+16 47.1	1.899	2.878	2.8	20.9
12 7	3 32.55	+ 3 58.6	1.338	2.259	11.5	19.9	12 7	3 33.52	+16 13.7	1.942	2.886	6.8	21.2
12 17	3 26.08	+ 4 10.1	1.412	2.273	15.2	20.2	12 17	3 26.87	+15 47.4	2.012	2.894	10.4	21.4
12 27	3 22.48	+ 4 42.0	1.504	2.287	18.5	20.4	12 27	3 22.43	+15 31.0	2.106	2.902	13.4	21.6
<b>300551</b>	2007 <i>TL</i> <sub>271</sub>		11 21.1 21°30'	0°2'/21.2	18		<b>27713</b>	1989 <i>AA</i>		11 21.1 273°69'	7°4'/25.4	18	R
10 18	4 12.52	+21 53.4	1.481	2.331	16.1	20.7	10 18	4 20.81	+40 24.4	1.157	1.965	22.3	17.5
10 28	4 7.72	+21 35.5	1.418	2.336	12.0	20.4	10 28	4 15.38	+39 49.5	1.076	1.955	18.4	17.2
11 7	4 0.23	+21 8.3	1.376	2.341	7.3	20.2	11 7	4 5.56	+38 36.0	1.013	1.945	13.8	16.9
11 17	3 51.00	+20 33.6	1.360	2.346	2.2	19.9	11 17	3 52.70	+36 38.1	0.971	1.934	9.3	16.6
11 27	3 41.37	+19 55.0	1.370	2.352	3.0	19.9	11 27	3 39.11	+33 58.8	0.953	1.924	7.5	16.5
12 7	3 32.75	+19 17.6	1.407	2.359	8.0	20.3	12 7	3 27.28	+30 52.7	0.962	1.914	10.7	16.6
12 17	3 26.26	+18 46.6	1.469	2.366	12.5	20.5	12 17	3 18.99	+27 41.5	0.995	1.903	15.8	16.8
12 27	3 22.64	+18 26.1	1.553	2.374	16.2	20.8	12 27	3 15.17	+24 45.4	1.050	1.893	20.7	17.1
<b>164299</b>	2004 <i>XP</i> <sub>186</sub>		11 21.1 222°95'	0°4'/20.9	18		<b>27373</b>	Davidvernon		11 21.1 231°52'	3°1'/19.7	18	
10 18	4 16.10	+18 36.3	1.992	2.823	13.3	19.9	10 18	4 14.23	+14 39.0	1.626	2.474	15.0	18.8
10 28	4 9.92	+18 44.0	1.908	2.816	10.0	19.7	10 28	4 8.79	+13 53.4	1.552	2.469	11.2	18.5
11 7	4 1.44	+18 48.1	1.848	2.810	6.1	19.5	11 7	4 0.84	+13 4.4	1.502	2.465	7.0	18.3
11 17	3 51.37	+18 49.1	1.816	2.803	1.8	19.2	11 17	3 51.22	+12 16.1	1.478	2.461	3.4	18.0
11 27	3 40.78	+18 48.1	1.814	2.795	2.7	19.2	11 27	3 41.14	+11 33.5	1.482	2.456	4.8	18.1
12 7	3 30.82	+18 47.4	1.841	2.787	7.0	19.5	12 7	3 31.89	+11 1.5	1.514	2.451	9.0	18.4
12 17	3 22.51	+18 49.7	1.896	2.779	10.9	19.7	12 17	3 24.55	+10 43.7	1.571	2.446	13.2	18.6
12 27	3 16.60	+18 57.4	1.975	2.771	14.2	19.9	12 27	3 19.89	+10 41.6	1.649	2.441	16.7	18.8
<b>407211</b>	2009 <i>VF</i> <sub>8</sub>		11 21.1 18°33'	0°5'/20.7	18		<b>267584</b>	2002 <i>QU</i> <sub>128</sub>		11 21.1 19°72'	2°9'/20.2	18	
10 18	4 11.71	+24 56.6	1.909	2.741	13.8	19.4	10 18	4 12.22	+15 28.8	1.028	1.905	19.4	19.8
10 28	4 6.48	+23 18.1	1.835	2.745	10.2	19.2	10 28	4 8.19	+15 4.6	0.980	1.912	14.5	19.6
11 7	3 59.18	+21 25.0	1.787	2.749	6.2	18.9	11 7	4 0.80	+14 37.9	0.951	1.920	8.8	19.3
11 17	3 50.64	+19 21.9	1.767	2.753	1.8	18.7	11 17	3 51.22	+14 12.6	0.945	1.930	3.6	19.0
11 27	3 41.95	+17 16.3	1.778	2.758	2.9	18.7	11 27	3 41.22	+13 54.1	0.961	1.940	5.2	19.2
12 7	3 34.17	+15 16.9	1.819	2.763	7.2	19.0	12 7	3 32.59	+13 46.8	1.002	1.952	10.6	19.5
12 17	3 28.11	+13 31.2	1.888	2.769	11.0	19.3	12 17	3 26.69	+13 53.8	1.064	1.965	15.7	19.9
12 27	3 24.35	+12 4.3	1.982	2.775	14.2	19.5	12 27	3 24.29	+14 15.7	1.145	1.980	19.9	20.2
<b>519476</b>	2012 <i>CP</i> <sub>58</sub>		11 21.1 147°67'	1°6'/20.0	18		<b>122207</b>	2000 <i>LQ</i> <sub>32</sub>		11 21.1 97°13'	3°8'/19.4	18	
10 18	4 10.95	+15 17.3	2.792	3.619	10.0	22.6	10 18	4 14.91	+12 41.1	1.610	2.457	15.1	19.7
10 28	4 5.33	+14 50.7	2.722	3.629	7.4	22.4	10 28	4 9.06	+11 50.7	1.554	2.470	11.3	19.5
11 7	3 58.30	+14 22.4	2.678	3.638	4.5	22.2	11 7	4 0.85	+10 59.8	1.522	2.483	7.2	19.3
11 17	3 50.38	+13 54.2	2.663	3.646	1.9	22.1	11 17	3 51.18	+10 12.9	1.516	2.495	4.0	19.2
11 27	3 42.29	+13 28.4	2.680	3.654	2.8	22.1	11 27	3 41.29	+ 9 35.2	1.538	2.508	5.3	19.3
12 7	3 34.72	+13 7.4	2.727	3.662	5.6	22.3	12 7	3 32.40	+ 9 10.7	1.587	2.520	9.1	19.5
12 17	3 28.29	+12 53.1	2.803	3.669	8.3	22.5	12 17	3 25.47	+ 9 1.6	1.662	2.531	12.9	19.8
12 27	3 23.46	+12 46.8	2.904	3.676	10.7	22.7	12 27	3 21.14	+ 8 9.3	1.758	2.543	16.1	20.0
<b>480601</b>	2015 <i>MR</i> <sub>93</sub>		11 21.1 86°93'	3°3'/19.6	18		<b>365380</b>	2009 <i>UX</i> <sub>132</sub>		11 21.1 50°70'	0°5'/21.5	18	
10 18	4 14.44	+13 43.3	1.651	2.498	14.8	20.8	10 18	4 11.52	+23 43.6	1.950	2.783	13.5	20.2
10 28	4 8.64	+12 57.1	1.596	2.513	11.0	20.6	10 28	4 6.35	+23 15.3	1.888	2.796	10.0	20.0
11 7	4 0.55	+12 9.6	1.565	2.527	6.9	20.4	11 7	3 59.13	+22 37.7	1.849	2.810	6.1	19.8
11 17	3 51.06	+11 24.9	1.560	2.542	3.5	20.2	11 17	3 50.67	+21 52.6	1.838	2.823	2.0	19.5
11 27	3 41.37	+10 47.7	1.584	2.556	4.8	20.3	11 27	3 42.00	+21 3.4	1.855	2.837	2.4	19.6
12 7	3 32.67	+10 22.2	1.635	2.570	8.7	20.6	12 7	3 34.18	+20 14.6	1.902	2.851	6.4	19.9
12 17	3 25.89	+10 10.6	1.711	2.584	12.4	20.9	12 17	3 28.04	+19 30.7	1.975	2.866	10.1	20.1
12 27	3 21.64	+10 13.8	1.810	2.598	15.6	21.1	12 27	3 24.15	+18 55.7	2.072	2.880	13.2	20.3
<b>254911</b>	2005 <i>SN</i> <sub>96</sub>		11 21.1 13°74'	1°6'/20.4	18		<b>346651</b>	2008 <i>XO</i> <sub>54</sub>		11 21.1 31°81'	5°0'/23.9	18	
10 18	4 11.66	+16 48.9	1.837	2.682	13.7	20.6	10 18	4 13.98	+34 35.7	1.191	2.025	20.2	18.8
10 28	4 6.61	+16 27.7	1.767	2.683	10.1	20.4	10 28	4 9.33	+34 5.9	1.144	2.043	15.9	18.6
11 7	3 59.40	+16 3.2	1.720	2.684	6.1	20.2	11 7	4 1.32	+33 9.6	1.115	2.062	11.0	18.4
11 17	3 50.76	+15 37.5	1.701	2.686	2.2	20.0	11 17	3 51.32	+31 47.0	1.109	2.083	6.5	18.2
11 27	3 41.76	+15 13.7	1.709	2.688	3.4	20.0	11 27	3 41.21	+30 4.4	1.128	2.104	5.3	18.2
12 7	3 33.51	+14 55.3	1.746	2.690	7.5	20.3	12 7	3 32.74	+28 12.8	1.172	2.127	8.8	18.5
12 17	3 26.94	+14 45.2	1.809	2.693	11.3	20.5	12 17	3 27.11	+26 24.8	1.241	2.150	13.2	18.8
12 27	3 22.72	+14 45.2	1.895	2.695	14.5	20.8	12 27	3 24.94	+24 50.2	1.331	2.174	17.1	19.1
<b>323010</b>	2002 <i>PK</i> <sub>134</sub>		11 21.1 110°45'	6°2'/16.9	18		<b>520814</b>	2014 <i>TG</i> <sub>92</sub>		11 21.1 95°05'	4°1'/18.6	18	
10 18	4 9.72	- 1 2.0	2.678	3.494	10.7	21.0	10 18	4 9.48	+ 8 29.8	2.343	3.181	11.3	21.5
10 28	4 4.37	- 1 57.4	2.630	3.511	8.7	20.9	10 28	4 4.48	+ 7 42.3	2.280	3.187	8.6	21.3
11 7	3 57.67	- 2 44.4	2.608	3.528	6.9	20.8	11 7	3 57.88	+ 6 57.2	2.241	3.194	5.9	21.1
11 17	3 50.19	- 3 19.1	2.613	3.545	6.2	20.8	11 17	3 50.30	+ 6 18.2	2.231	3.201	4.2	21.0
11 27	3 42.59	- 3 38.4	2.646	3.561	6.9	20.9	11 27	3 42.51	+ 5 48.9	2.250	3.207	5.1	21.1
12 7	3 35.57	- 3 41.1	2.708	3.577	8.6	21.0	12 7	3 35.32	+ 5 31.6	2.298	3.214	7.6	21.3
12 17	3 29.68	- 3 27.5	2.794	3.592	10.4	21.2	12 17	3 29.39	+ 5 27.7	2.372	3.220	10.3	21.5
12 27	3 25.35	- 2 59.0	2.903	3.607	12.2	21.3	12 27	3 25.24	+ 5 37.3	2.469	3.227	12.7	21.7
<b>361890</b>	2008 <i>FV</i> <sub>93</sub>		11 21.1 154°07'	3°2'/19.4	18		<b>409783</b>	2006 <i>EQ</i> <sub>62</sub>					

EPHEMERIDES

11 21.1

11 21.2

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>198673</b>	2005 <i>BG</i> <sub>44</sub>		11 21.1 341°40	9°0/14.4	18		<b>389671</b>	2011 <i>PW</i> <sub>9</sub>		11 21.1 81°00	0°9/21.6	18	
10 18	4 8.01	- 3 46.2	2.107	2.931	12.9	19.3	10 18	4 14.55	+24 0.8	1.689	2.524	15.1	20.8
10 28	4 3.59	- 5 29.0	2.050	2.928	10.9	19.2	10 28	4 8.99	+23 42.7	1.621	2.530	11.4	20.6
11 7	3 57.44	- 7 1.1	2.017	2.925	9.4	19.1	11 7	4 0.94	+23 14.1	1.575	2.535	7.0	20.3
11 17	3 50.19	- 8 15.5	2.010	2.922	9.0	19.1	11 17	3 51.27	+22 35.9	1.556	2.541	2.4	20.1
11 27	3 42.66	- 9 6.3	2.029	2.919	10.0	19.1	11 27	3 41.24	+21 51.4	1.565	2.547	2.8	20.1
12 7	3 35.74	- 9 30.9	2.073	2.917	11.9	19.2	12 7	3 32.15	+21 5.5	1.602	2.552	7.3	20.4
12 17	3 30.15	- 9 29.2	2.140	2.915	13.9	19.4	12 17	3 25.06	+20 23.7	1.665	2.558	11.5	20.7
12 27	3 26.45	- 9 3.9	2.225	2.913	15.9	19.5	12 27	3 20.66	+19 50.8	1.751	2.564	15.0	20.9
<b>334212</b>	2001 <i>SF</i> <sub>319</sub>		11 21.1 52°02	0°3/21.3	16		<b>14715</b>	2000 <i>CD</i> <sub>71</sub>		11 21.1 176°56	3°3/23.3	18	
10 18	4 17.10	+21 16.7	1.279	2.131	18.0	20.9	10 18	4 12.66	+32 1.8	2.538	3.333	11.8	18.5
10 28	4 11.26	+21 16.5	1.232	2.151	13.4	20.7	10 28	4 7.05	+32 7.7	2.456	3.334	9.3	18.3
11 7	4 2.39	+21 7.8	1.206	2.171	8.1	20.5	11 7	3 59.56	+32 1.9	2.397	3.335	6.5	18.1
11 17	3 51.66	+20 51.4	1.205	2.191	2.5	20.2	11 17	3 50.84	+31 43.2	2.366	3.335	4.0	18.0
11 27	3 40.70	+20 30.5	1.230	2.212	3.3	20.3	11 27	3 41.79	+31 12.6	2.364	3.335	3.6	17.9
12 7	3 31.10	+20 9.7	1.281	2.233	8.5	20.7	12 7	3 33.36	+30 32.9	2.392	3.335	5.8	18.1
12 17	3 24.08	+19 53.8	1.356	2.255	13.2	21.0	12 17	3 26.36	+29 48.4	2.448	3.335	8.6	18.2
12 27	3 20.30	+19 46.7	1.453	2.276	17.0	21.3	12 27	3 21.39	+29 3.7	2.530	3.335	11.2	18.4
<b>478990</b>	2012 <i>XT</i> <sub>124</sub>		11 21.1 54°42	3°1/19.5	18		<b>516618</b>	2007 <i>UJ</i> <sub>112</sub>		11 21.1 91°79	1°0/21.6	18	
10 18	4 13.45	+16 52.6	1.430	2.285	16.2	19.7	10 18	4 15.44	+22 46.1	1.793	2.625	14.5	21.6
10 28	4 8.11	+15 36.0	1.383	2.305	12.0	19.5	10 28	4 9.59	+22 53.0	1.723	2.631	10.9	21.4
11 7	4 0.29	+14 14.0	1.359	2.324	7.3	19.3	11 7	4 1.29	+22 52.3	1.676	2.636	6.7	21.1
11 17	3 51.01	+12 52.8	1.361	2.344	3.3	19.1	11 17	3 51.39	+22 43.8	1.656	2.641	2.4	20.9
11 27	3 41.63	+11 39.5	1.390	2.364	4.9	19.3	11 27	3 41.08	+22 29.1	1.665	2.647	2.7	20.9
12 7	3 33.43	+10 40.7	1.446	2.385	9.2	19.6	12 7	3 31.61	+22 11.4	1.702	2.652	7.0	21.2
12 17	3 27.39	+10 0.3	1.527	2.405	13.3	19.9	12 17	3 24.04	+21 54.7	1.766	2.657	11.0	21.4
12 27	3 23.07	+ 9 39.7	1.628	2.426	16.6	20.2	12 27	3 19.08	+21 43.0	1.853	2.663	14.4	21.7
<b>273610</b>	2007 <i>DP</i> <sub>2</sub>		11 21.1 299°16	0°6/21.4	18		<b>361325</b>	2006 <i>UE</i> <sub>50</sub>		11 21.1 125°60	0°5/21.5	18	
10 18	4 15.05	+21 39.7	1.432	2.280	16.6	21.1	10 18	4 12.80	+23 31.9	1.931	2.763	13.6	21.5
10 28	4 10.11	+21 43.9	1.347	2.264	12.6	20.8	10 28	4 7.46	+23 6.3	1.856	2.764	10.2	21.3
11 7	4 2.05	+21 40.2	1.284	2.247	7.9	20.5	11 7	3 59.93	+22 31.2	1.805	2.765	6.3	21.1
11 17	3 51.69	+21 28.4	1.245	2.231	2.5	20.1	11 17	3 50.97	+21 47.8	1.780	2.766	2.0	20.8
11 27	3 40.46	+21 10.2	1.233	2.215	3.3	20.1	11 27	3 41.67	+20 59.4	1.784	2.766	2.5	20.8
12 7	3 29.99	+20 49.7	1.247	2.199	8.7	20.4	12 7	3 33.15	+20 10.5	1.818	2.767	6.7	21.1
12 17	3 21.75	+20 31.9	1.286	2.184	13.8	20.6	12 17	3 26.33	+19 26.2	1.878	2.768	10.6	21.3
12 27	3 16.75	+20 22.0	1.345	2.169	18.1	20.9	12 27	3 21.89	+18 50.5	1.962	2.768	13.9	21.6
<b>42231</b>	2001 <i>EM</i> <sub>1</sub>		11 21.1 346°53	4°6/18.9	18		<b>257345</b>	2009 <i>KR</i> <sub>1</sub>		11 21.1 138°12	1°6/20.5	17	
10 18	4 11.07	+ 6 50.7	2.126	2.963	12.3	18.9	10 18	4 19.07	+16 39.8	1.624	2.463	15.5	21.0
10 28	4 5.87	+ 6 22.0	2.056	2.963	9.5	18.7	10 28	4 12.29	+16 26.7	1.561	2.473	11.5	20.7
11 7	3 58.83	+ 5 57.8	2.011	2.962	6.5	18.6	11 7	4 2.91	+16 10.4	1.521	2.484	7.0	20.5
11 17	3 50.61	+ 5 41.5	1.993	2.961	4.7	18.5	11 17	3 51.87	+15 52.5	1.508	2.493	2.4	20.2
11 27	3 42.08	+ 5 36.2	2.004	2.961	5.6	18.5	11 27	3 40.47	+15 36.0	1.523	2.502	3.6	20.4
12 7	3 34.16	+ 5 43.8	2.042	2.960	8.3	18.7	12 7	3 30.09	+15 24.3	1.567	2.510	8.2	20.6
12 17	3 27.64	+ 6 4.8	2.107	2.960	11.3	18.9	12 17	3 21.81	+15 20.5	1.637	2.518	12.4	20.9
12 27	3 23.10	+ 6 38.6	2.195	2.960	13.9	19.1	12 27	3 16.36	+15 26.7	1.729	2.525	15.9	21.2
<b>296754</b>	2009 <i>UM</i> <sub>24</sub>		11 21.1 104°95	1°1/20.7	17		<b>268588</b>	2006 <i>BS</i> <sub>169</sub>		11 21.1 36°91	2°6/22.5	17	
10 18	4 17.87	+18 48.3	1.646	2.484	15.3	21.9	10 18	4 12.68	+28 3.9	2.075	2.893	13.3	20.8
10 28	4 11.23	+18 24.1	1.591	2.503	11.3	21.7	10 28	4 7.34	+28 11.3	2.001	2.897	10.2	20.6
11 7	4 2.15	+17 54.3	1.559	2.521	6.8	21.5	11 7	3 59.85	+28 7.8	1.951	2.902	6.8	20.4
11 17	3 51.58	+17 20.9	1.553	2.539	2.1	21.2	11 17	3 50.96	+27 52.9	1.928	2.907	3.4	20.2
11 27	3 40.81	+16 47.7	1.577	2.557	3.3	21.4	11 27	3 41.71	+27 27.6	1.934	2.912	3.2	20.2
12 7	3 31.13	+16 18.8	1.629	2.574	7.8	21.7	12 7	3 33.19	+26 55.4	1.968	2.917	6.3	20.4
12 17	3 23.54	+15 58.2	1.707	2.590	11.8	21.9	12 17	3 26.34	+26 20.7	2.029	2.922	9.8	20.6
12 27	3 18.68	+15 48.4	1.808	2.606	15.2	22.2	12 27	3 21.80	+25 48.3	2.115	2.928	12.8	20.8
<b>194778</b>	2001 <i>YP</i> <sub>80</sub>		11 21.1 284°55	3°6/19.8	18		<b>334143</b>	2001 <i>RB</i> <sub>97</sub>		11 21.1 74°74	1°5/20.5	16	
10 18	4 14.46	+11 49.3	1.610	2.459	15.1	19.6	10 18	4 17.36	+18 12.1	1.452	2.299	16.5	21.5
10 28	4 9.07	+11 28.5	1.534	2.450	11.4	19.4	10 28	4 11.02	+17 40.7	1.406	2.323	12.2	21.3
11 7	4 1.09	+11 8.8	1.481	2.442	7.3	19.1	11 7	4 2.07	+17 4.0	1.382	2.346	7.3	21.1
11 17	3 51.34	+10 53.4	1.453	2.434	3.9	18.9	11 17	3 51.58	+16 24.8	1.383	2.369	2.4	20.8
11 27	3 41.03	+10 45.9	1.453	2.426	5.1	19.0	11 27	3 40.97	+15 47.7	1.413	2.392	3.7	21.0
12 7	3 31.46	+10 49.3	1.480	2.417	9.2	19.2	12 7	3 31.61	+15 17.4	1.470	2.415	8.4	21.3
12 17	3 23.80	+11 5.3	1.533	2.409	13.4	19.4	12 17	3 24.54	+14 57.7	1.552	2.438	12.6	21.6
12 27	3 18.84	+11 34.3	1.606	2.401	16.9	19.6	12 27	3 20.36	+14 50.7	1.655	2.460	16.1	21.9
<b>184391</b>	2005 <i>LY</i> <sub>52</sub>		11 21.1 122°84	2°9/19.7	16		<b>220467</b>	2004 <i>BN</i> <sub>67</sub>		11 21.2 237°86	3°6/22.8	18	
10 18	4 16.97	+14 32.1	1.800	2.638	14.2	21.1	10 18	4 17.18	+30 0.4	1.524	2.349	17.0	20.5
10 28	4 10.34	+13 44.4	1.744	2.656	10.5	20.9	10 28	4 11.51	+30 0.6	1.448	2.346	13.3	20.2
11 7	4 1.52	+12 54.4	1.712	2.673	6.5	20.7	11 7	4 2.75	+29 44.1	1.393	2.343	9.0	20.0
11 17	3 51.39	+12 6.0	1.708	2.689	3.2	20.5	11 17	3 51.88	+29 9.0	1.362	2.340	4.8	19.7
11 27	3 41.09	+11 23.7	1.733	2.705	4.4	20.6	11 27	3 40.42	+28 17.2	1.359	2.337	4.3	19.7
12 7	3 31.77	+10 51.5	1.786	2.720	8.2	20.9	12 7	3 30.00	+27 14.6	1.382	2.333	8.2	19.9
12 17	3 24.33	+10 32.2	1.866	2.734	11.8	21.2	12 17	3 21.96	+26 9.3	1.432	2.330	12.6	20.2
12 27	3 19.34	+10 27.0	1.969	2.748	14.8	21.4	12 27	3 17.16	+25 9.6	1.503	2.326	16.5	20.4
<b>334697</b>	2003 <i>DX</i> <sub>7</sub>		11 21.1 327°02	0°4/20.9	18		<b>1881</b>	Shao					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>174925</b>	2004 <i>CE</i> <sub>36</sub>		11 21.2 337°20	0°9/20.9	18		<b>63275</b>	2001 <i>DD</i> <sub>21</sub>		11 21.2 307°97	2°5/20.4	18	
10 18	4 15.13	+16 34.3	1.621	2.467	15.1	19.5	10 18	4 15.58	+14 35.7	1.320	2.178	17.2	18.9
10 28	4 9.66	+16 55.5	1.545	2.461	11.3	19.3	10 28	4 10.53	+14 30.5	1.244	2.166	13.0	18.6
11 7	4 1.53	+17 15.8	1.492	2.455	6.9	19.0	11 7	4 2.32	+14 24.6	1.190	2.155	8.1	18.3
11 17	3 51.53	+17 35.3	1.464	2.450	2.2	18.7	11 17	3 51.83	+14 20.4	1.159	2.144	3.2	18.0
11 27	3 40.89	+17 54.9	1.465	2.446	3.2	18.8	11 27	3 40.52	+14 20.8	1.155	2.133	4.6	18.1
12 7	3 31.01	+18 15.9	1.493	2.441	8.0	19.1	12 7	3 30.08	+14 29.0	1.176	2.123	9.9	18.3
12 17	3 23.06	+18 40.3	1.547	2.438	12.4	19.3	12 17	3 21.95	+14 47.3	1.221	2.113	14.9	18.6
12 27	3 17.92	+19 9.8	1.623	2.434	16.1	19.6	12 27	3 17.12	+15 17.4	1.287	2.104	19.1	18.8
<b>102912</b>	1999 <i>XA</i> <sub>21</sub>		11 21.2 99°14	4°2/18.5	17 R		<b>12878</b>	Erneschiller		11 21.2 68°35	1°3/20.6	18 R	
10 18	4 19.02	+15 25.9	1.614	2.453	15.5	18.9	10 18	4 14.54	+17 20.4	1.678	2.523	14.8	18.2
10 28	4 11.80	+13 26.4	1.568	2.481	11.4	18.8	10 28	4 8.88	+17 6.7	1.617	2.533	11.0	17.9
11 7	4 2.32	+11 22.3	1.548	2.507	7.2	18.6	11 7	4 0.84	+16 49.3	1.579	2.543	6.6	17.7
11 17	3 51.61	+9 21.7	1.556	2.533	4.3	18.5	11 17	3 51.28	+16 30.0	1.567	2.553	2.2	17.5
11 27	3 40.97	+7 33.9	1.594	2.559	5.9	18.6	11 27	3 41.40	+16 11.9	1.583	2.563	3.3	17.6
12 7	3 31.59	+6 6.0	1.661	2.583	9.6	18.9	12 7	3 32.44	+15 58.3	1.627	2.573	7.7	17.9
12 17	3 24.34	+5 1.9	1.755	2.607	13.2	19.2	12 17	3 25.39	+15 52.1	1.698	2.583	11.7	18.1
12 27	3 19.73	+4 22.3	1.870	2.629	16.2	19.4	12 27	3 20.94	+15 55.5	1.790	2.594	15.1	18.4
<b>355380</b>	2007 <i>TT</i> <sub>394</sub>		11 21.2 328°73	1°3/20.6	18		<b>308138</b>	2004 <i>YM</i> <sub>10</sub>		11 21.2 307°78	0°8/21.7	18	
10 18	4 12.75	+17 55.8	1.634	2.483	14.9	21.3	10 18	4 10.92	+25 38.2	2.134	2.959	12.7	20.0
10 28	4 7.79	+17 35.4	1.560	2.478	11.1	21.0	10 28	4 5.94	+24 54.8	2.050	2.954	9.6	19.7
11 7	4 0.32	+17 9.9	1.508	2.473	6.8	20.8	11 7	3 58.97	+23 59.7	1.990	2.948	6.0	19.5
11 17	3 51.14	+16 41.6	1.482	2.468	2.2	20.5	11 17	3 50.72	+22 54.7	1.958	2.943	2.1	19.2
11 27	3 41.47	+16 13.9	1.484	2.464	3.5	20.6	11 27	3 42.15	+21 43.4	1.956	2.937	2.3	19.3
12 7	3 32.60	+15 51.0	1.513	2.460	8.1	20.8	12 7	3 34.27	+20 31.1	1.983	2.932	6.2	19.5
12 17	3 25.62	+15 36.5	1.568	2.456	12.4	21.1	12 17	3 27.92	+19 23.4	2.038	2.927	9.9	19.7
12 27	3 21.30	+15 33.1	1.644	2.453	16.0	21.3	12 27	3 23.72	+18 25.1	2.118	2.922	13.0	19.9
<b>144546</b>	2004 <i>EP</i> <sub>101</sub>		11 21.2 27°06	6°7/17.6	18		<b>185642</b>	2008 <i>EV</i> <sub>88</sub>		11 21.2 241°14	3°6/23.5	17	
10 18	4 9.91	+7 23.4	1.508	2.366	15.4	19.2	10 18	4 14.91	+33 0.6	2.283	3.077	13.0	20.0
10 28	4 5.50	+5 53.9	1.458	2.374	11.8	19.0	10 28	4 9.02	+32 53.0	2.188	3.065	10.3	19.8
11 7	3 58.78	+4 28.5	1.430	2.383	8.5	18.8	11 7	4 0.92	+32 30.7	2.115	3.052	7.3	19.6
11 17	3 50.64	+3 14.8	1.427	2.392	6.8	18.8	11 17	3 51.33	+31 52.5	2.070	3.040	4.4	19.4
11 27	3 42.26	+2 20.1	1.451	2.402	8.1	18.9	11 27	3 41.27	+30 59.4	2.054	3.026	3.9	19.3
12 7	3 34.82	+1 48.7	1.500	2.412	11.2	19.1	12 7	3 31.89	+29 55.5	2.068	3.013	6.4	19.5
12 17	3 29.25	+1 41.6	1.572	2.423	14.5	19.3	12 17	3 24.13	+28 46.4	2.110	2.999	9.6	19.6
12 27	3 26.18	+1 57.3	1.663	2.434	17.5	19.6	12 27	3 18.72	+27 38.8	2.178	2.985	12.7	19.8
<b>325364</b>	2008 <i>PC</i> <sub>3</sub>		11 21.2 120°97	1°1/21.9	18		<b>520621</b>	2014 <i>OK</i> <sub>413</sub>		11 21.2 83°68	1°0/20.6	18	
10 18	4 11.75	+25 49.7	2.445	3.262	11.6	21.4	10 18	4 12.01	+17 56.8	2.125	2.961	12.4	21.3
10 28	4 6.24	+25 25.3	2.372	3.271	8.7	21.2	10 28	4 6.61	+17 40.7	2.057	2.968	9.2	21.1
11 7	3 59.00	+24 51.6	2.324	3.279	5.5	21.1	11 7	3 59.32	+17 20.8	2.013	2.976	5.5	20.9
11 17	3 50.69	+24 9.7	2.304	3.287	2.1	20.8	11 17	3 50.81	+16 58.9	1.997	2.983	1.8	20.7
11 27	3 42.17	+23 22.0	2.314	3.295	2.2	20.9	11 27	3 42.04	+16 37.3	2.010	2.990	2.8	20.8
12 7	3 34.32	+22 32.3	2.355	3.303	5.5	21.1	12 7	3 33.94	+16 19.0	2.053	2.997	6.5	21.0
12 17	3 27.86	+21 44.5	2.424	3.311	8.6	21.3	12 17	3 27.35	+16 6.7	2.123	3.004	9.9	21.3
12 27	3 23.33	+21 2.5	2.518	3.318	11.4	21.5	12 27	3 22.83	+16 2.4	2.216	3.011	12.9	21.5
<b>483136</b>	2015 <i>OA</i> <sub>23</sub>		11 21.2 87°55	6°7/17.7	18		<b>246595</b>	2008 <i>UJ</i> <sub>246</sub>		11 21.2 105°92	2°4/20.3	18	
10 18	4 13.24	+4 10.2	1.807	2.646	14.1	20.9	10 18	4 15.81	+13 53.8	1.703	2.546	14.7	20.2
10 28	4 7.51	+2 58.9	1.762	2.664	11.0	20.7	10 28	4 9.83	+13 46.4	1.637	2.551	10.9	20.0
11 7	3 59.79	+1 55.0	1.740	2.682	8.1	20.6	11 7	4 1.45	+13 38.9	1.594	2.556	6.8	19.8
11 17	3 50.91	+1 4.2	1.745	2.701	6.7	20.6	11 17	3 51.48	+13 33.2	1.578	2.561	2.9	19.5
11 27	3 41.90	+0 31.6	1.778	2.719	7.8	20.7	11 27	3 41.11	+13 31.9	1.589	2.566	4.0	19.6
12 7	3 33.79	+0 19.5	1.837	2.736	10.3	20.9	12 7	3 31.60	+13 37.3	1.629	2.571	8.2	19.9
12 17	3 27.39	+0 27.9	1.921	2.754	13.1	21.1	12 17	3 23.97	+13 51.2	1.695	2.575	12.1	20.1
12 27	3 23.23	+0 54.9	2.026	2.771	15.6	21.3	12 27	3 18.94	+14 14.5	1.784	2.580	15.5	20.4
<b>96458</b>	1998 <i>HV</i> <sub>24</sub>		11 21.2 272°08	0°2/21.1	18		<b>388233</b>	2006 <i>KT</i> <sub>17</sub>		11 21.2 125°74	6°7/18.7	18	
10 18	4 14.75	+20 2.5	1.709	2.549	14.7	19.8	10 18	4 15.53	+1 42.1	1.879	2.707	14.1	20.7
10 28	4 9.29	+19 57.1	1.628	2.541	11.1	19.6	10 28	4 9.28	+1 13.4	1.820	2.715	11.1	20.6
11 7	4 1.26	+19 45.6	1.570	2.533	6.8	19.3	11 7	4 0.95	+0 54.6	1.784	2.722	8.3	20.4
11 17	3 51.45	+19 28.9	1.538	2.525	2.0	19.0	11 17	3 51.30	+0 49.8	1.774	2.729	6.7	20.3
11 27	3 41.05	+19 9.1	1.535	2.516	2.9	19.0	11 27	3 41.38	+1 2.2	1.793	2.736	7.6	20.4
12 7	3 31.39	+18 50.0	1.559	2.508	7.7	19.3	12 7	3 32.26	+1 32.6	1.839	2.742	10.1	20.6
12 17	3 23.61	+18 35.4	1.610	2.500	12.0	19.5	12 17	3 24.82	+2 19.7	1.911	2.748	12.9	20.8
12 27	3 18.54	+18 28.9	1.683	2.491	15.7	19.8	12 27	3 19.68	+3 21.2	2.004	2.754	15.6	21.0
<b>308195</b>	2005 <i>EW</i> <sub>12</sub>		11 21.2 348°34	5°1/21.8	17		<b>523314</b>	2017 <i>BA</i> <sub>127</sub>		11 21.2 316°80	0°3/20.9	17	
10 18	3 47.33	+23 3.9	0.649	1.572	21.4	18.4	10 18	4 12.25	+20 56.6	1.910	2.747	13.5	21.6
10 28	3 51.02	+24 25.4	0.576	1.531	16.8	17.9	10 28	4 7.09	+20 30.5	1.834	2.746	10.1	21.4
11 7	3 51.33	+25 44.7	0.518	1.493	11.4	17.4	11 7	3 59.75	+19 57.0	1.782	2.744	6.1	21.1
11 17	3 48.71	+26 57.5	0.475	1.460	6.1	17.0	11 17	3 50.98	+19 17.8	1.756	2.743	1.8	20.8
11 27	3 44.72	+27 59.0	0.450	1.432	6.3	16.8	11 27	3 41.83	+18 36.2	1.760	2.741	2.7	20.9
12 7	3 41.68	+28 46.7	0.440	1.411	12.2	17.0	12 7	3 33.42	+17 56.6	1.792	2.740	7.0	21.2
12 17	3 41.95	+29 21.4	0.444	1.395	18.6	17.2	12 17	3 26.67	+17 23.2	1.851	2.739	10.8	21.4
12 27	3 47.33	+29 47.2	0.462	1.386	24.2	17.5	12 27	3 22.27	+16 59.3	1.933	2.737	14.1	21.6
<b>414346</b>	2008 <i>SV</i> <sub>287</sub>		11 21.2 241°51	0°0/21.2	17		<b>422288</b>	2014 <i>SE</i> <sub>156</sub>		11			

EPHEMERIDES

11 21.2

11 21.2

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>156791</b>	2003 <i>BP</i> <sub>14</sub>		11 21.2 234°72	1°1/20.6 18			<b>189262</b>	2004 <i>XL</i> <sub>81</sub>		11 21.2 31°70	7°8/18.9 18		
10 18	4 15.24	+18 49.5	1.808	2.645	14.2	21.1	10 18	4 14.83	- 3 12.7	1.943	2.760	14.1	18.8
10 28	4 9.51	+18 20.9	1.723	2.636	10.6	20.9	10 28	4 8.72	- 3 21.6	1.886	2.767	11.5	18.7
11 7	4 1.33	+17 45.9	1.663	2.626	6.5	20.6	11 7	4 0.60	- 3 16.1	1.852	2.775	9.1	18.6
11 17	3 51.49	+17 6.4	1.629	2.615	2.1	20.3	11 17	3 51.25	- 2 52.5	1.843	2.783	7.8	18.5
11 27	3 41.11	+16 26.3	1.625	2.604	3.3	20.4	11 27	3 41.65	- 2 8.9	1.863	2.791	8.4	18.6
12 7	3 31.45	+15 49.8	1.648	2.593	7.8	20.6	12 7	3 32.82	- 1 6.1	1.909	2.800	10.5	18.7
12 17	3 23.57	+15 21.4	1.699	2.581	11.9	20.8	12 17	3 25.61	+ 0 13.3	1.982	2.809	13.0	18.9
12 27	3 18.26	+15 4.4	1.772	2.569	15.5	21.0	12 27	3 20.62	+ 1 45.3	2.076	2.819	15.3	19.1
<b>289370</b>	2005 <i>CG</i> <sub>9</sub>		11 21.2 230°15	6°4/17.8 18			<b>444608</b>	2006 <i>UU</i> <sub>274</sub>		11 21.2 353°90	1°4/21.8 17		
10 18	4 13.10	+ 2 40.9	2.120	2.948	12.7	21.3	10 18	4 14.17	+23 33.6	1.749	2.584	14.7	21.2
10 28	4 7.46	+ 1 50.9	2.043	2.938	10.1	21.1	10 28	4 8.84	+23 45.7	1.675	2.583	11.1	21.0
11 7	3 59.89	+ 1 7.6	1.991	2.928	7.6	21.0	11 7	4 0.99	+23 49.7	1.622	2.582	7.0	20.7
11 17	3 51.03	+ 0 35.6	1.965	2.918	6.4	20.9	11 17	3 51.43	+23 45.2	1.596	2.581	2.7	20.5
11 27	3 41.78	+ 0 19.2	1.968	2.907	7.3	20.9	11 27	3 41.35	+23 33.2	1.598	2.580	2.8	20.5
12 7	3 33.10	+ 0 20.9	1.999	2.895	9.8	21.0	12 7	3 32.06	+23 16.9	1.629	2.580	7.2	20.7
12 17	3 25.83	+ 0 40.9	2.055	2.883	12.5	21.2	12 17	3 24.66	+23 0.4	1.685	2.580	11.3	21.0
12 27	3 20.61	+ 1 18.0	2.133	2.871	15.1	21.4	12 27	3 19.92	+22 48.1	1.764	2.580	14.8	21.2
<b>303161</b>	2004 <i>EG</i> <sub>60</sub>		11 21.2 268°51	3°2/22.8 18			<b>67664</b>	2000 <i>SJ</i> <sub>269</sub>		11 21.2 32°30	6°3/18.9 18		
10 18	4 15.98	+29 47.2	2.206	3.010	13.1	21.2	10 18	4 13.62	+ 9 50.0	1.100	1.971	18.9	19.2
10 28	4 10.06	+30 1.0	2.100	2.986	10.3	20.9	10 28	4 8.99	+ 8 46.4	1.053	1.979	14.3	19.0
11 7	4 1.73	+30 3.5	2.017	2.961	7.1	20.7	11 7	4 1.23	+ 7 46.2	1.026	1.988	9.6	18.8
11 17	3 51.65	+29 52.8	1.960	2.935	4.0	20.5	11 17	3 51.48	+ 6 57.0	1.022	1.997	6.5	18.6
11 27	3 40.84	+29 28.8	1.934	2.908	3.7	20.4	11 27	3 41.39	+ 6 26.1	1.041	2.007	8.0	18.8
12 7	3 30.50	+28 54.1	1.936	2.882	6.7	20.5	12 7	3 32.61	+ 6 17.9	1.085	2.018	12.2	19.0
12 17	3 21.74	+28 13.4	1.967	2.854	10.3	20.7	12 17	3 26.39	+ 6 33.1	1.150	2.030	16.6	19.3
12 27	3 15.40	+27 32.4	2.022	2.827	13.6	20.9	12 27	3 23.46	+ 7 9.4	1.233	2.042	20.3	19.6
<b>183046</b>	2002 <i>QB</i> <sub>65</sub>		11 21.2 26°25	7°1/17.9 18			<b>435566</b>	2008 <i>RN</i> <sub>42</sub>		11 21.2 116°90	1°1/20.6 18		
10 18	4 12.93	+ 7 51.9	1.307	2.169	17.1	20.5	10 18	4 16.64	+18 36.8	1.843	2.677	14.1	22.4
10 28	4 8.13	+ 6 26.9	1.252	2.171	13.2	20.2	10 28	4 10.20	+18 10.2	1.783	2.693	10.4	22.2
11 7	4 0.58	+ 5 5.5	1.219	2.174	9.3	20.0	11 7	4 1.54	+17 38.3	1.747	2.709	6.3	22.0
11 17	3 51.25	+ 3 55.9	1.209	2.177	7.2	19.9	11 17	3 51.53	+17 3.3	1.739	2.725	2.0	21.7
11 27	3 41.55	+ 3 6.3	1.225	2.181	8.7	20.0	11 27	3 41.32	+16 28.7	1.760	2.740	3.1	21.8
12 7	3 32.92	+ 2 41.7	1.266	2.184	12.3	20.2	12 7	3 32.03	+15 58.4	1.810	2.754	7.3	22.1
12 17	3 26.49	+ 2 43.3	1.328	2.189	16.1	20.5	12 17	3 24.60	+15 35.8	1.887	2.768	11.0	22.4
12 27	3 23.00	+ 3 9.1	1.410	2.193	19.5	20.7	12 27	3 19.63	+15 23.6	1.987	2.781	14.2	22.6
<b>290489</b>	2005 <i>UW</i> <sub>9</sub>		11 21.2 49°82	1°4/21.8 18			<b>141735</b>	2002 <i>LO</i> <sub>28</sub>		11 21.2 237°98	1°9/20.2 18		
10 18	4 14.70	+23 25.0	1.965	2.793	13.6	20.3	10 18	4 15.92	+17 58.5	1.598	2.442	15.4	20.3
10 28	4 8.94	+23 44.9	1.892	2.796	10.3	20.1	10 28	4 10.28	+17 13.9	1.517	2.433	11.5	20.0
11 7	4 0.91	+23 57.8	1.842	2.800	6.4	19.9	11 7	4 1.94	+16 21.9	1.459	2.423	7.1	19.8
11 17	3 51.35	+24 3.1	1.820	2.804	2.5	19.6	11 17	3 51.74	+15 25.8	1.427	2.412	2.6	19.5
11 27	3 41.36	+24 1.3	1.826	2.807	2.7	19.6	11 27	3 40.96	+14 30.8	1.423	2.401	4.0	19.5
12 7	3 32.10	+23 54.9	1.862	2.811	6.6	19.9	12 7	3 31.00	+13 42.6	1.447	2.390	8.8	19.8
12 17	3 24.55	+23 47.1	1.924	2.815	10.3	20.1	12 17	3 23.04	+13 6.6	1.497	2.378	13.3	20.0
12 27	3 19.43	+23 41.7	2.011	2.819	13.5	20.3	12 27	3 17.92	+12 46.0	1.568	2.366	17.1	20.3
<b>414963</b>	2011 <i>CV</i> <sub>9</sub>		11 21.2 258°90	4°2/18.8 17			<b>20972</b>	1981 <i>DX</i> <sub>2</sub>		11 21.2 235°99	1°7/22.3 18		
10 18	4 10.19	+ 7 53.9	2.340	3.175	11.4	21.2	10 18	4 12.13	+27 8.5	2.287	3.103	12.3	19.7
10 28	4 5.15	+ 7 19.7	2.263	3.170	8.7	21.0	10 28	4 6.80	+26 50.7	2.202	3.099	9.4	19.5
11 7	3 58.42	+ 6 48.4	2.212	3.164	6.0	20.8	11 7	3 59.52	+26 22.1	2.142	3.095	6.1	19.3
11 17	3 50.58	+ 6 23.3	2.188	3.158	4.2	20.7	11 17	3 50.96	+25 43.3	2.109	3.090	2.7	19.1
11 27	3 42.44	+ 6 7.6	2.194	3.152	5.1	20.7	11 27	3 42.06	+24 56.2	2.105	3.086	2.5	19.0
12 7	3 34.81	+ 6 3.5	2.228	3.146	7.7	20.9	12 7	3 33.79	+24 4.9	2.132	3.081	5.9	19.3
12 17	3 28.43	+ 6 12.1	2.289	3.140	10.6	21.1	12 17	3 27.01	+23 14.0	2.187	3.077	9.3	19.5
12 27	3 23.86	+ 6 33.2	2.373	3.134	13.1	21.2	12 27	3 22.32	+22 28.0	2.266	3.072	12.3	19.6
<b>168240</b>	2006 <i>KW</i> <sub>84</sub>		11 21.2 108°99	1°6/20.4 18			<b>153458</b>	2001 <i>QD</i> <sub>328</sub>		11 21.2 14°67	1°2/21.6 18		
10 18	4 14.71	+16 54.2	1.902	2.740	13.6	20.9	10 18	4 13.64	+22 15.8	1.128	1.992	19.1	19.4
10 28	4 8.73	+16 30.6	1.840	2.752	10.0	20.7	10 28	4 9.38	+22 31.3	1.072	1.996	14.4	19.2
11 7	4 0.64	+16 3.6	1.802	2.765	6.1	20.5	11 7	4 1.69	+22 37.5	1.035	2.001	8.9	18.9
11 17	3 51.24	+15 35.3	1.792	2.777	2.2	20.2	11 17	3 51.69	+22 33.9	1.021	2.007	3.1	18.6
11 27	3 41.59	+15 8.9	1.810	2.789	3.3	20.3	11 27	3 41.10	+22 22.3	1.032	2.015	3.5	18.6
12 7	3 32.78	+14 47.8	1.858	2.800	7.2	20.6	12 7	3 31.79	+22 7.5	1.067	2.023	9.2	19.0
12 17	3 25.69	+14 34.8	1.932	2.812	10.9	20.9	12 17	3 25.18	+21 54.9	1.125	2.033	14.4	19.3
12 27	3 20.94	+14 31.8	2.030	2.822	14.0	21.1	12 27	3 22.17	+21 49.6	1.202	2.044	18.7	19.6
<b>143944</b>	2003 <i>YP</i> <sub>115</sub>		11 21.2 6°09	0°1/21.1 18			<b>108919</b>	2001 <i>PG</i> <sub>15</sub>		11 21.2 42°50	0°7/20.9 18		
10 18	4 19.11	+18 9.0	1.384	2.231	17.2	19.6	10 18	4 16.54	+18 46.5	1.176	2.037	18.7	19.0
10 28	4 13.03	+18 39.1	1.315	2.231	12.9	19.3	10 28	4 11.06	+18 46.0	1.132	2.055	13.8	18.7
11 7	4 3.78	+19 6.8	1.268	2.231	7.9	19.0	11 7	4 2.43	+18 39.9	1.108	2.074	8.3	18.5
11 17	3 52.29	+19 31.2	1.245	2.232	2.4	18.7	11 17	3 51.84	+18 29.6	1.108	2.094	2.5	18.2
11 27	3 40.09	+19 52.5	1.250	2.232	3.3	18.8	11 27	3 40.99	+18 18.0	1.133	2.115	3.6	18.3
12 7	3 28.88	+20 12.3	1.282	2.233	8.8	19.1	12 7	3 31.56	+18 9.4	1.183	2.136	9.1	18.7
12 17	3 20.07	+20 33.1	1.339	2.233	13.6	19.4	12 17	3 24.79	+18 7.6	1.258	2.157	13.9	19.1
12 27	3 14.60	+20 58.1	1.417	2.234	17.7	19.6	12 27	3 21.38	+18 15.3	1.352	2.179	17.8	19.4
<b>59598</b>	1999 <i>JL</i> <sub>61</sub>		11 21.2 91°55	1°9/20.2 18			<b>486978</b>	2014 <i>NP</i>					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>370608</b>	2003 <i>WE</i> <sub>182</sub>		11 21.2 349°00	1°3/20.7	18		<b>243077</b>	2007 <i>HM</i> <sub>59</sub>		11 21.2 190°48	1°3/21.9	17	
10 18	4 10.19	+19 3.0	1.007	1.886	19.6	20.9	10 18	4 13.68	+24 13.6	2.502	3.317	11.4	21.0
10 28	4 7.17	+18 43.2	0.943	1.877	14.7	20.6	10 28	4 7.82	+24 26.9	2.419	3.316	8.6	20.8
11 7	4 0.58	+18 14.9	0.899	1.869	9.0	20.2	11 7	4 0.12	+24 33.7	2.361	3.315	5.5	20.6
11 17	3 51.42	+17 41.0	0.876	1.862	2.8	19.9	11 17	3 51.18	+24 33.6	2.331	3.314	2.2	20.4
11 27	3 41.45	+17 6.9	0.875	1.857	4.4	19.9	11 27	3 41.87	+24 27.3	2.332	3.313	2.3	20.4
12 7	3 32.66	+16 39.2	0.898	1.854	10.6	20.3	12 7	3 33.09	+24 16.7	2.363	3.311	5.5	20.6
12 17	3 26.62	+16 23.8	0.942	1.852	16.3	20.6	12 17	3 25.65	+24 4.6	2.423	3.309	8.7	20.8
12 27	3 24.33	+16 24.2	1.003	1.852	21.0	20.9	12 27	3 20.16	+23 54.3	2.508	3.307	11.4	21.0
<b>287427</b>	2002 <i>WP</i> <sub>23</sub>		11 21.2 80°43	0°3/21.0	18		<b>311722</b>	2006 <i>SL</i> <sub>368</sub>		11 21.2 41°07	1°2/20.6	17	
10 18	4 12.97	+21 17.2	1.858	2.695	13.9	20.5	10 18	4 12.18	+19 50.2	1.572	2.422	15.3	20.6
10 28	4 7.63	+20 45.5	1.789	2.700	10.3	20.3	10 28	4 7.24	+19 4.4	1.516	2.435	11.3	20.4
11 7	4 0.08	+20 5.9	1.743	2.706	6.2	20.1	11 7	3 59.90	+18 10.9	1.483	2.448	6.8	20.2
11 17	3 51.14	+19 20.3	1.725	2.711	1.8	19.8	11 17	3 51.10	+17 13.4	1.476	2.462	2.1	20.0
11 27	3 41.89	+18 32.6	1.735	2.717	2.7	19.9	11 27	3 42.07	+16 17.0	1.496	2.476	3.4	20.1
12 7	3 33.47	+17 47.4	1.774	2.722	7.0	20.1	12 7	3 34.06	+15 27.3	1.544	2.491	7.9	20.4
12 17	3 26.79	+17 9.1	1.840	2.727	10.9	20.4	12 17	3 28.03	+14 48.9	1.617	2.506	12.0	20.7
12 27	3 22.50	+16 41.2	1.929	2.733	14.2	20.6	12 27	3 24.59	+14 24.7	1.713	2.522	15.4	20.9
<b>392963</b>	2012 <i>XE</i> <sub>5</sub>		11 21.2 77°81	3°0/19.8	18		<b>148503</b>	2001 <i>NQ</i>		11 21.2 96°81	8°0/18.8	18	
10 18	4 14.35	+14 42.1	1.622	2.470	15.0	20.7	10 18	4 19.66	- 0 53.5	1.704	2.525	15.6	19.7
10 28	4 8.71	+13 58.4	1.567	2.484	11.1	20.5	10 28	4 12.27	- 1 30.0	1.665	2.552	12.5	19.6
11 7	4 0.74	+13 12.6	1.535	2.497	6.9	20.3	11 7	4 2.70	- 1 53.0	1.648	2.577	9.6	19.5
11 17	3 51.32	+12 28.4	1.529	2.511	3.3	20.1	11 17	3 51.89	- 1 57.8	1.658	2.603	8.0	19.4
11 27	3 41.68	+11 50.7	1.551	2.525	4.6	20.3	11 27	3 41.04	- 1 41.4	1.695	2.627	8.8	19.5
12 7	3 33.02	+11 23.6	1.600	2.538	8.6	20.5	12 7	3 31.29	- 1 4.1	1.759	2.651	11.1	19.7
12 17	3 26.30	+11 9.8	1.675	2.552	12.4	20.8	12 17	3 23.52	- 0 8.4	1.848	2.674	13.8	20.0
12 27	3 22.16	+11 10.4	1.771	2.565	15.7	21.0	12 27	3 18.29	+ 1 2.0	1.959	2.697	16.2	20.2
<b>233860</b>	2008 <i>VL</i> <sub>23</sub>		11 21.2 79°17	1°4/20.6	18		<b>233541</b>	2007 <i>JQ</i> <sub>15</sub>		11 21.2 82°15	2°2/19.6	18	
10 18	4 16.90	+17 21.2	1.632	2.474	15.3	20.2	10 18	4 10.56	+16 37.4	2.261	3.097	11.7	20.4
10 28	4 10.54	+17 3.2	1.582	2.496	11.3	20.0	10 28	4 5.36	+15 31.6	2.198	3.110	8.6	20.3
11 7	4 1.80	+16 41.4	1.555	2.518	6.8	19.8	11 7	3 58.51	+14 21.7	2.161	3.123	5.3	20.1
11 17	3 51.63	+16 17.9	1.555	2.540	2.3	19.5	11 17	3 50.66	+13 11.5	2.153	3.136	2.4	19.9
11 27	3 41.29	+15 56.0	1.583	2.562	3.4	19.7	11 27	3 42.67	+12 5.6	2.176	3.149	3.6	20.0
12 7	3 32.04	+15 39.1	1.639	2.583	7.8	20.0	12 7	3 35.38	+11 8.3	2.227	3.162	6.8	20.2
12 17	3 24.84	+15 30.3	1.721	2.605	11.7	20.3	12 17	3 29.47	+10 22.8	2.307	3.174	9.9	20.5
12 27	3 20.29	+15 31.5	1.825	2.626	15.0	20.5	12 27	3 25.45	+ 9 51.2	2.410	3.187	12.5	20.7
<b>322253</b>	2011 <i>DT</i> <sub>12</sub>		11 21.2 167°05	1°2/20.6	18		<b>400429</b>	2008 <i>CK</i> <sub>178</sub>		11 21.2 299°22	6°4/24.1	17	
10 18	4 16.51	+18 4.3	1.904	2.738	13.7	21.7	10 18	4 16.72	+36 22.2	1.873	2.664	15.6	20.7
10 28	4 10.21	+17 42.6	1.832	2.742	10.2	21.5	10 28	4 11.11	+37 4.0	1.787	2.655	12.7	20.5
11 7	4 1.65	+17 16.2	1.784	2.746	6.2	21.2	11 7	4 2.60	+37 29.4	1.723	2.646	9.7	20.3
11 17	3 51.62	+16 46.8	1.763	2.749	2.0	21.0	11 17	3 52.02	+37 34.1	1.684	2.638	7.1	20.2
11 27	3 41.24	+16 17.6	1.772	2.751	3.1	21.1	11 27	3 40.69	+37 16.3	1.671	2.629	6.5	20.1
12 7	3 31.65	+15 52.2	1.810	2.753	7.3	21.3	12 7	3 30.14	+36 39.0	1.686	2.621	8.5	20.2
12 17	3 23.82	+15 33.9	1.875	2.755	11.1	21.6	12 17	3 21.68	+35 48.1	1.727	2.613	11.6	20.4
12 27	3 18.43	+15 25.5	1.964	2.756	14.4	21.8	12 27	3 16.24	+34 52.0	1.790	2.605	14.7	20.6
<b>228435</b>	2001 <i>QR</i> <sub>59</sub>		11 21.2 114°05	3°3/22.6	18		<b>331767</b>	2002 <i>YJ</i> <sub>23</sub>		11 21.2 137°70	5°2/19.6	18	
10 18	4 19.79	+28 41.0	1.704	2.520	15.9	20.4	10 18	4 14.24	+ 9 39.4	1.277	2.138	17.4	19.7
10 28	4 13.01	+28 58.1	1.640	2.534	12.2	20.2	10 28	4 9.31	+ 9 10.6	1.218	2.140	13.2	19.5
11 7	4 3.48	+29 2.0	1.599	2.547	8.1	20.0	11 7	4 1.45	+ 8 46.0	1.181	2.142	8.7	19.2
11 17	3 52.18	+28 50.9	1.583	2.561	4.3	19.8	11 17	3 51.64	+ 8 30.5	1.167	2.145	5.4	19.0
11 27	3 40.50	+28 25.7	1.596	2.573	3.9	19.8	11 27	3 41.35	+ 8 28.5	1.179	2.148	6.7	19.1
12 7	3 29.90	+27 50.7	1.638	2.586	7.5	20.1	12 7	3 32.12	+ 8 42.7	1.216	2.152	10.8	19.4
12 17	3 21.54	+27 11.8	1.706	2.598	11.3	20.3	12 17	3 25.19	+ 9 13.6	1.276	2.157	15.2	19.6
12 27	3 16.15	+26 35.6	1.797	2.609	14.7	20.6	12 27	3 21.37	+ 9 59.9	1.355	2.162	18.9	19.9
<b>333054</b>	2011 <i>SK</i> <sub>200</sub>		11 21.2 118°34	1°4/21.8	18		<b>405345</b>	2003 <i>UX</i> <sub>371</sub>		11 21.2 17°77	4°9/23.9	17	
10 18	4 16.78	+24 16.0	1.958	2.781	13.8	21.7	10 18	4 13.86	+34 28.1	2.034	2.831	14.3	20.3
10 28	4 10.39	+24 21.0	1.891	2.793	10.4	21.5	10 28	4 8.52	+34 49.5	1.958	2.833	11.5	20.1
11 7	4 1.74	+24 17.4	1.849	2.805	6.5	21.3	11 7	4 0.77	+34 55.6	1.905	2.836	8.4	19.9
11 17	3 51.64	+24 5.1	1.833	2.817	2.5	21.0	11 17	3 51.42	+34 44.3	1.877	2.839	5.7	19.8
11 27	3 41.23	+23 45.4	1.847	2.828	2.6	21.1	11 27	3 41.63	+34 15.6	1.877	2.842	5.1	19.8
12 7	3 31.67	+23 21.8	1.890	2.839	6.6	21.3	12 7	3 32.64	+33 33.1	1.905	2.846	7.2	19.9
12 17	3 23.93	+22 58.3	1.961	2.850	10.2	21.6	12 17	3 25.49	+32 42.3	1.959	2.849	10.2	20.1
12 27	3 18.66	+22 39.0	2.056	2.860	13.4	21.8	12 27	3 20.90	+31 49.9	2.038	2.853	13.1	20.3
<b>284244</b>	2006 <i>ES</i> <sub>16</sub>		11 21.2 184°82	5°5/18.2	18		<b>76290</b>	2000 <i>EG</i> <sub>125</sub>		11 21.2 122°46	2°0/22.3	18	
10 18	4 12.91	+ 7 33.9	1.851	2.693	13.7	21.2	10 18	4 16.66	+26 55.5	2.313	3.121	12.5	19.5
10 28	4 7.49	+ 6 28.7	1.785	2.693	10.5	21.0	10 28	4 10.01	+27 2.9	2.247	3.138	9.5	19.4
11 7	3 59.98	+ 5 26.3	1.742	2.693	7.4	20.8	11 7	4 1.40	+27 0.9	2.205	3.154	6.1	19.2
11 17	3 51.12	+ 4 32.2	1.726	2.693	5.6	20.7	11 17	3 51.56	+26 49.0	2.191	3.170	2.9	19.0
11 27	3 41.94	+ 3 51.8	1.739	2.692	6.8	20.8	11 27	3 41.48	+26 28.4	2.207	3.186	2.7	19.0
12 7	3 33.49	+ 3 28.8	1.779	2.691	9.7	20.9	12 7	3 32.16	+26 1.9	2.254	3.200	5.8	19.3
12 17	3 26.68	+ 3 24.7	1.843	2.690	12.9	21.1	12 17	3 24.44	+25 33.5	2.329	3.215	9.0	19.5
12 27	3 22.13	+ 3 39.0	1.929	2.689	15.8	21.3	12 27	3 18.92	+25 7.2	2.429	3.228	11.7	19.7
<b>112361</b>	2002 <i>NB</i> <sub>18</sub>		11 21.2 211°23	0°1/21.1	18		<b>437333</b>	2013					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>333613</b>	2007 <i>RW</i> <sub>227</sub>		11 21.2 32°75'	1.3°/21.7	18		<b>292351</b>	2006 <i>ST</i> <sub>216</sub>		11 21.2 54°61'	1.5°/21.9	18	
10 18	4 15.14	+22 55.2	1.598	2.438	15.6	20.8	10 18	4 15.34	+23 53.1	1.881	2.709	14.1	21.0
10 28	4 9.70	+23 9.5	1.532	2.443	11.8	20.6	10 28	4 9.60	+24 9.2	1.806	2.711	10.7	20.8
11 7	4 1.58	+23 15.7	1.488	2.449	7.3	20.3	11 7	4 1.45	+24 17.6	1.755	2.712	6.7	20.6
11 17	3 51.68	+23 13.5	1.470	2.455	2.7	20.1	11 17	3 51.69	+24 17.5	1.730	2.713	2.7	20.3
11 27	3 41.31	+23 4.0	1.480	2.461	2.9	20.1	11 27	3 41.44	+24 9.7	1.734	2.715	2.8	20.4
12 7	3 31.88	+22 50.6	1.517	2.468	7.5	20.4	12 7	3 31.94	+23 57.0	1.766	2.716	6.8	20.6
12 17	3 24.52	+22 37.6	1.579	2.476	11.8	20.7	12 17	3 24.25	+23 43.1	1.826	2.718	10.7	20.9
12 27	3 20.02	+22 29.2	1.664	2.483	15.4	20.9	12 27	3 19.10	+23 32.2	1.908	2.719	14.0	21.1
<b>392577</b>	2011 <i>SB</i> <sub>140</sub>		11 21.2 119°92'	2°1/20.1	18		<b>15911</b>	Davidgauthier		11 21.2 108°70'	0°9/21.6	18	
10 18	4 13.63	+16 3.3	1.941	2.780	13.3	21.6	10 18	4 18.68	+23 18.3	1.796	2.622	14.8	20.7
10 28	4 7.95	+15 23.9	1.876	2.789	9.8	21.4	10 28	4 11.87	+23 12.2	1.738	2.642	11.0	20.5
11 7	4 0.23	+14 41.1	1.836	2.798	6.0	21.2	11 7	4 2.67	+22 57.2	1.702	2.661	6.8	20.3
11 17	3 51.23	+13 58.0	1.823	2.806	2.5	21.0	11 17	3 52.00	+22 33.9	1.694	2.679	2.3	20.0
11 27	3 41.98	+13 18.5	1.839	2.815	3.7	21.1	11 27	3 41.10	+22 4.5	1.715	2.697	2.6	20.1
12 7	3 33.52	+12 46.4	1.884	2.823	7.4	21.4	12 7	3 31.24	+21 33.2	1.766	2.715	6.9	20.4
12 17	3 26.71	+12 24.8	1.956	2.831	11.0	21.6	12 17	3 23.38	+21 4.5	1.843	2.732	10.8	20.7
12 27	3 22.15	+12 15.4	2.051	2.838	14.0	21.8	12 27	3 18.17	+20 42.5	1.944	2.748	14.1	20.9
<b>322274</b>	2011 <i>EP</i> <sub>63</sub>		11 21.2 354°53'	0°4/20.9	17		<b>487063</b>	2014 <i>OJ</i> <sub>90</sub>		11 21.2 126°89'	0°6/21.6	18	
10 18	4 10.71	+19 59.6	2.102	2.939	12.5	21.1	10 18	4 12.96	+23 37.1	2.122	2.948	12.8	21.0
10 28	4 5.84	+19 44.2	2.026	2.937	9.3	20.9	10 28	4 7.46	+23 14.9	2.048	2.953	9.6	20.8
11 7	3 59.00	+19 23.5	1.974	2.936	5.6	20.7	11 7	3 59.97	+22 44.1	1.999	2.958	5.9	20.6
11 17	3 50.88	+18 58.6	1.949	2.935	1.7	20.4	11 17	3 51.20	+22 5.8	1.977	2.962	2.0	20.4
11 27	3 42.42	+18 32.2	1.953	2.935	2.5	20.5	11 27	3 42.14	+21 22.7	1.985	2.967	2.3	20.4
12 7	3 34.58	+18 7.4	1.987	2.934	6.4	20.7	12 7	3 33.81	+20 38.8	2.022	2.971	6.2	20.7
12 17	3 28.22	+17 47.4	2.047	2.934	10.0	20.9	12 17	3 27.04	+19 58.5	2.087	2.975	9.8	20.9
12 27	3 23.96	+17 34.9	2.131	2.934	13.0	21.1	12 27	3 22.46	+19 25.4	2.177	2.979	12.8	21.1
<b>245906</b>	2006 <i>QT</i> <sub>113</sub>		11 21.2 137°43'	7°5/25.7	18		<b>385715</b>	2005 <i>UL</i> <sub>117</sub>		11 21.2 321°73'	0°9/21.6	18	
10 18	4 22.43	+43 9.5	2.308	3.046	14.5	20.7	10 18	4 14.27	+23 10.2	1.402	2.250	16.9	21.2
10 28	4 14.95	+44 1.6	2.236	3.057	12.3	20.5	10 28	4 9.55	+23 4.1	1.326	2.242	12.8	20.9
11 7	4 4.73	+44 35.2	2.186	3.068	10.0	20.4	11 7	4 1.78	+22 47.5	1.271	2.233	8.0	20.6
11 17	3 52.65	+44 45.5	2.160	3.078	8.2	20.3	11 17	3 51.86	+22 20.5	1.240	2.225	2.7	20.3
11 27	3 40.04	+44 30.9	2.162	3.088	7.6	20.3	11 27	3 41.23	+21 45.9	1.235	2.218	3.2	20.3
12 7	3 28.36	+43 53.7	2.191	3.097	8.5	20.3	12 7	3 31.52	+21 9.0	1.257	2.211	8.5	20.6
12 17	3 18.79	+43 0.0	2.247	3.106	10.5	20.5	12 17	3 24.09	+20 35.7	1.303	2.204	13.4	20.9
12 27	3 12.13	+41 57.5	2.328	3.114	12.6	20.6	12 27	3 19.85	+20 11.6	1.371	2.198	17.6	21.1
<b>383133</b>	2005 <i>US</i> <sub>27</sub>		11 21.2 18°17'	0°8/21.5	18		<b>51602</b>	2001 <i>HL</i> <sub>28</sub>		11 21.2 124°14'	0°0/21.2	18	
10 18	4 13.50	+22 2.0	1.143	2.007	18.9	20.2	10 18	4 11.49	+21 2.0	2.793	3.613	10.2	20.1
10 28	4 9.21	+22 4.7	1.088	2.012	14.2	19.9	10 28	4 5.88	+20 47.1	2.724	3.627	7.6	19.9
11 7	4 1.58	+21 57.7	1.053	2.019	8.7	19.6	11 7	3 58.81	+20 27.3	2.681	3.641	4.6	19.7
11 17	3 51.73	+21 41.3	1.040	2.026	2.8	19.3	11 17	3 50.84	+20 3.7	2.668	3.654	1.4	19.5
11 27	3 41.36	+21 18.6	1.052	2.035	3.4	19.4	11 27	3 42.69	+19 38.1	2.685	3.667	1.9	19.6
12 7	3 32.27	+20 54.9	1.089	2.045	9.2	19.8	12 7	3 35.10	+19 12.8	2.733	3.679	5.0	19.8
12 17	3 25.85	+20 36.0	1.149	2.056	14.3	20.1	12 17	3 28.68	+18 50.6	2.811	3.691	7.8	20.0
12 27	3 22.90	+20 26.4	1.228	2.068	18.5	20.4	12 27	3 23.92	+18 33.5	2.913	3.703	10.2	20.2
<b>30358</b>	2000 <i>JF</i> <sub>49</sub>		11 21.2 126°84'	2°6/22.5	18		<b>66349</b>	1999 <i>JF</i> <sub>75</sub>		11 21.2 57°76'	0°1/21.2	18	
10 18	4 17.72	+28 21.0	1.745	2.564	15.4	18.3	10 18	4 17.57	+22 18.9	1.180	2.035	19.0	18.6
10 28	4 11.43	+28 14.1	1.677	2.573	11.8	18.1	10 28	4 11.88	+21 52.3	1.134	2.054	14.1	18.3
11 7	4 2.53	+27 53.4	1.631	2.582	7.7	17.9	11 7	4 2.99	+21 14.4	1.108	2.073	8.6	18.1
11 17	3 51.97	+27 18.4	1.611	2.591	3.7	17.7	11 17	3 52.13	+20 27.4	1.106	2.092	2.6	17.8
11 27	3 41.05	+26 31.4	1.620	2.599	3.4	17.7	11 27	3 41.06	+19 36.9	1.129	2.111	3.4	17.9
12 7	3 31.15	+25 37.6	1.657	2.607	7.2	17.9	12 7	3 31.49	+18 49.6	1.178	2.131	9.0	18.3
12 17	3 23.36	+24 43.4	1.721	2.615	11.2	18.2	12 17	3 24.65	+18 12.0	1.251	2.151	13.9	18.6
12 27	3 18.38	+23 55.1	1.809	2.622	14.6	18.4	12 27	3 21.22	+17 48.4	1.345	2.171	17.9	19.0
<b>295989</b>	2008 <i>YG</i> <sub>68</sub>		11 21.2 62°83'	1°7/20.5	18		<b>342479</b>	2008 <i>UG</i> <sub>147</sub>		11 21.2 75°57'	1°1/21.7	18	
10 18	4 14.44	+16 2.0	1.753	2.596	14.3	20.6	10 18	4 17.88	+22 59.5	1.588	2.423	15.9	21.0
10 28	4 8.89	+15 50.3	1.683	2.597	10.7	20.4	10 28	4 11.56	+23 4.7	1.534	2.442	11.9	20.8
11 7	4 0.98	+15 36.2	1.636	2.599	6.5	20.1	11 7	4 2.61	+23 1.2	1.501	2.461	7.4	20.6
11 17	3 51.52	+15 21.6	1.616	2.601	2.4	19.9	11 17	3 52.02	+22 48.9	1.495	2.480	2.6	20.3
11 27	3 41.64	+15 9.2	1.624	2.603	3.5	20.0	11 27	3 41.16	+22 29.8	1.516	2.498	2.9	20.4
12 7	3 32.55	+15 2.0	1.661	2.605	7.8	20.2	12 7	3 31.41	+22 7.9	1.566	2.517	7.4	20.7
12 17	3 25.26	+15 2.5	1.723	2.607	11.7	20.5	12 17	3 23.85	+21 47.8	1.642	2.535	11.6	21.0
12 27	3 20.50	+15 12.5	1.808	2.609	15.1	20.7	12 27	3 19.17	+21 33.8	1.740	2.554	15.1	21.3
<b>25498</b>	1999 <i>XJ</i> <sub>88</sub>		11 21.2 276°28'	0°8/20.7	18		<b>270298</b>	2001 <i>VQ</i> <sub>127</sub>		11 21.2 70°27'	4°8/19.2	18	
10 18	4 10.91	+19 1.5	2.262	3.096	11.8	19.0	10 18	4 15.92	+10 58.7	1.432	2.284	16.4	20.6
10 28	4 5.93	+18 38.0	2.174	3.084	8.8	18.8	10 28	4 10.01	+10 2.3	1.388	2.305	12.3	20.4
11 7	3 59.06	+18 9.4	2.111	3.073	5.3	18.6	11 7	4 1.59	+9 8.0	1.367	2.326	8.0	20.2
11 17	3 50.94	+17 37.3	2.076	3.062	1.7	18.3	11 17	3 51.69	+8 21.3	1.371	2.347	5.0	20.1
11 27	3 42.41	+17 4.5	2.071	3.051	2.6	18.4	11 27	3 41.66	+7 47.5	1.402	2.368	6.3	20.2
12 7	3 34.41	+16 34.3	2.095	3.040	6.3	18.6	12 7	3 32.82	+7 30.3	1.459	2.389	10.0	20.5
12 17	3 27.76	+16 9.9	2.146	3.028	9.8	18.8	12 17	3 26.14	+7 31.0	1.541	2.410	13.8	20.7
12 27	3 23.10	+15 53.8	2.222	3.017	12.8	19.0	12 27	3 22.23	+7 48.9	1.643	2.431	16.9	21.0
<b>275499</b>	1995 <i>KG</i> <sub>4</sub>		11 21.2 303°77'	2°5/21.2	17		<b>58975</b>	1998 <i>RD</i> <sub>31</sub>		11 2			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>358669</b>	2007 XQ <sub>4</sub>		11 21.2 343°47'	8°9'/18.7	18		<b>31149</b>	1997 UE <sub>13</sub>		11 21.2 260°13'	1°1'/21.7	18	
10 18	4 12.23	+ 0 9.3	1.379	2.229	17.1	19.5	10 18	4 16.26	+23 28.4	1.742	2.574	14.9	20.0
10 28	4 7.78	- 0 19.7	1.312	2.217	13.8	19.3	10 28	4 10.63	+23 28.3	1.654	2.560	11.3	19.7
11 7	4 0.59	- 0 34.2	1.265	2.206	10.7	19.1	11 7	4 2.29	+23 19.2	1.588	2.547	7.1	19.5
11 17	3 51.50	- 0 27.6	1.242	2.196	8.9	19.0	11 17	3 52.04	+23 0.9	1.548	2.533	2.6	19.1
11 27	3 41.79	+ 0 4.4	1.243	2.188	9.8	19.0	11 27	3 41.09	+22 34.9	1.537	2.519	2.8	19.1
12 7	3 32.90	+ 1 2.6	1.268	2.180	12.8	19.2	12 7	3 30.83	+22 5.0	1.554	2.504	7.5	19.4
12 17	3 26.04	+ 2 24.0	1.316	2.174	16.3	19.4	12 17	3 22.48	+21 36.1	1.597	2.490	11.9	19.6
12 27	3 22.06	+ 4 3.6	1.383	2.169	19.6	19.6	12 27	3 16.91	+21 13.5	1.663	2.475	15.7	19.8
<b>320294</b>	2007 RP <sub>225</sub>		11 21.2 39°26'	2°3'/22.3	18		<b>248719</b>	2006 QR <sub>9</sub>		11 21.2 65°56'	8°0'/25.4	18	
10 18	4 15.17	+26 39.1	1.663	2.493	15.6	21.1	10 18	4 19.92	+40 47.0	1.833	2.603	16.6	19.9
10 28	4 9.74	+26 40.2	1.592	2.496	11.9	20.9	10 28	4 13.57	+41 40.7	1.767	2.613	13.9	19.7
11 7	4 1.65	+26 29.1	1.543	2.499	7.7	20.7	11 7	4 4.12	+42 14.1	1.721	2.623	11.1	19.6
11 17	3 51.78	+26 5.3	1.520	2.502	3.4	20.4	11 17	3 52.58	+42 21.8	1.699	2.633	8.7	19.4
11 27	3 41.46	+25 30.8	1.524	2.505	3.2	20.4	11 27	3 40.46	+42 2.2	1.702	2.643	8.0	19.4
12 7	3 32.06	+24 50.2	1.556	2.508	7.4	20.7	12 7	3 29.43	+41 18.8	1.733	2.654	9.3	19.5
12 17	3 24.72	+24 9.1	1.615	2.512	11.5	20.9	12 17	3 20.82	+40 18.8	1.788	2.664	11.8	19.7
12 27	3 20.21	+23 33.5	1.696	2.515	15.1	21.2	12 27	3 15.49	+39 11.7	1.867	2.674	14.4	19.9
<b>276449</b>	2003 FD <sub>10</sub>		11 21.2 159°94'	2°5'/19.9	18		<b>121902</b>	2000 DV <sub>44</sub>		11 21.2 175°23'	2°1'/20.1	18	
10 18	4 15.48	+14 46.7	1.963	2.799	13.3	21.5	10 18	4 16.26	+15 41.1	2.064	2.894	12.9	20.7
10 28	4 9.36	+14 10.2	1.894	2.804	9.9	21.3	10 28	4 9.89	+15 6.4	1.989	2.898	9.6	20.5
11 7	4 1.14	+13 31.4	1.849	2.810	6.1	21.1	11 7	4 1.47	+14 28.6	1.940	2.900	5.9	20.3
11 17	3 51.59	+12 53.3	1.832	2.814	2.8	20.9	11 17	3 51.72	+13 50.3	1.919	2.902	2.5	20.1
11 27	3 41.74	+12 19.4	1.845	2.819	4.0	20.9	11 27	3 41.64	+13 14.9	1.928	2.903	3.6	20.2
12 7	3 32.65	+11 53.6	1.886	2.822	7.6	21.2	12 7	3 32.28	+12 46.1	1.966	2.903	7.3	20.4
12 17	3 25.22	+11 38.4	1.955	2.825	11.2	21.4	12 17	3 24.52	+12 26.8	2.032	2.903	10.9	20.6
12 27	3 20.08	+11 35.3	2.046	2.828	14.3	21.6	12 27	3 19.01	+12 18.9	2.122	2.901	13.9	20.8
<b>143357</b>	2003 AS <sub>92</sub>		11 21.2 21°86'	5°7'/18.0	18		<b>170612</b>	2003 YX <sub>46</sub>		11 21.2 246°58'	1°3'/20.6	18	
10 18	4 9.59	+11 46.6	1.406	2.270	16.0	18.4	10 18	4 14.18	+17 21.6	1.929	2.766	13.4	20.4
10 28	4 5.50	+10 3.5	1.355	2.278	12.0	18.2	10 28	4 8.65	+17 7.5	1.847	2.759	10.0	20.2
11 7	3 58.97	+ 8 19.2	1.326	2.287	8.0	18.0	11 7	4 0.88	+16 49.7	1.789	2.751	6.1	19.9
11 17	3 50.94	+ 6 42.2	1.323	2.297	5.7	17.9	11 17	3 51.58	+16 29.7	1.758	2.744	2.1	19.7
11 27	3 42.68	+ 5 21.4	1.346	2.307	7.3	18.0	11 27	3 41.79	+16 10.3	1.757	2.736	3.1	19.7
12 7	3 35.42	+ 4 23.1	1.395	2.319	10.9	18.2	12 7	3 32.65	+15 54.6	1.784	2.728	7.3	20.0
12 17	3 30.15	+ 3 50.1	1.467	2.331	14.6	18.5	12 17	3 25.14	+15 45.5	1.838	2.720	11.2	20.2
12 27	3 27.47	+ 3 42.0	1.559	2.344	17.8	18.7	12 27	3 19.99	+15 45.5	1.915	2.712	14.5	20.4
<b>494020</b>	2016 AK <sub>155</sub>		11 21.2 320°28'	0°4'/21.5	17		<b>489170</b>	2006 FQ <sub>37</sub>		11 21.2 267°92'	3°0'/22.5	17	
10 18	4 9.85	+24 20.1	2.012	2.845	13.1	20.8	10 18	4 17.48	+28 4.5	2.524	3.323	11.8	21.3
10 28	4 5.42	+23 35.3	1.922	2.831	9.9	20.5	10 28	4 11.03	+28 49.5	2.419	3.302	9.2	21.1
11 7	3 58.89	+22 38.9	1.856	2.816	6.1	20.3	11 7	4 2.37	+29 27.6	2.338	3.281	6.3	20.9
11 17	3 50.95	+21 32.9	1.817	2.803	2.0	20.0	11 17	3 52.07	+29 56.4	2.285	3.259	3.6	20.7
11 27	3 42.59	+20 21.2	1.807	2.789	2.4	20.0	11 27	3 41.04	+30 14.4	2.264	3.237	3.5	20.7
12 7	3 34.86	+19 9.4	1.826	2.776	6.6	20.2	12 7	3 30.34	+30 22.3	2.273	3.214	6.1	20.8
12 17	3 28.67	+18 3.2	1.872	2.763	10.5	20.4	12 17	3 20.96	+30 22.6	2.311	3.192	9.3	21.0
12 27	3 24.71	+17 7.7	1.942	2.751	13.9	20.6	12 27	3 13.73	+30 19.2	2.374	3.169	12.1	21.1
<b>334275</b>	2001 UU <sub>74</sub>		11 21.2 34°91'	1°8'/20.6	18		<b>459871</b>	2014 ET <sub>6</sub>		11 21.2 59°56'	9°6'/25.7	18	
10 18	4 14.42	+17 26.1	1.156	2.022	18.5	19.8	10 18	4 23.03	+42 6.2	1.589	2.360	18.7	20.5
10 28	4 9.57	+17 4.7	1.111	2.037	13.7	19.6	10 28	4 16.40	+43 22.6	1.531	2.375	15.8	20.4
11 7	4 1.63	+16 38.6	1.086	2.054	8.3	19.3	11 7	4 6.08	+44 15.6	1.493	2.390	12.8	20.2
11 17	3 51.76	+16 10.9	1.085	2.071	2.8	19.1	11 17	3 53.20	+44 38.1	1.477	2.405	10.4	20.1
11 27	3 41.61	+15 46.2	1.108	2.089	4.2	19.2	11 27	3 39.65	+44 26.8	1.486	2.420	9.6	20.1
12 7	3 32.83	+15 29.2	1.157	2.108	9.5	19.6	12 7	3 27.45	+43 45.8	1.520	2.435	10.9	20.2
12 17	3 26.61	+15 23.6	1.229	2.127	14.3	19.9	12 17	3 18.21	+42 43.9	1.578	2.451	13.3	20.4
12 27	3 23.67	+15 31.2	1.320	2.147	18.2	20.2	12 27	3 12.84	+41 32.5	1.658	2.466	15.9	20.6
<b>69319</b>	1993 FA <sub>29</sub>		11 21.2 192°43'	5°8'/24.2	18		<b>477271</b>	2009 SR <sub>109</sub>		11 21.2 18°21'	4°4'/22.5	18	
10 18	4 19.64	+36 42.7	2.169	2.944	14.2	19.5	10 18	4 17.17	+27 20.8	1.182	2.030	19.5	20.6
10 28	4 12.91	+37 21.1	2.085	2.943	11.6	19.3	10 28	4 12.25	+28 11.6	1.123	2.034	15.1	20.3
11 7	4 3.56	+37 44.2	2.024	2.941	8.8	19.2	11 7	4 3.66	+28 49.4	1.083	2.039	10.1	20.1
11 17	3 52.39	+37 48.2	1.988	2.939	6.4	19.0	11 17	3 52.50	+29 9.7	1.066	2.045	5.5	19.8
11 27	3 40.62	+37 31.9	1.981	2.936	5.9	19.0	11 27	3 40.60	+29 11.5	1.074	2.052	5.1	19.8
12 7	3 29.60	+36 57.8	2.003	2.933	7.7	19.1	12 7	3 29.97	+28 58.4	1.106	2.059	9.5	20.1
12 17	3 20.50	+36 11.3	2.051	2.930	10.4	19.3	12 17	3 22.21	+28 37.5	1.162	2.068	14.2	20.4
12 27	3 14.14	+35 19.8	2.125	2.925	13.1	19.4	12 27	3 18.30	+28 16.7	1.237	2.077	18.4	20.7
<b>310251</b>	2011 UQ <sub>18</sub>		11 21.2 16°57'	6°9'/19.7	18		<b>100436</b>	1996 NN <sub>1</sub>		11 21.2 93°06'	12°3'/30.5	18	
10 18	4 12.54	+ 4 55.3	1.181	2.046	18.3	18.9	10 18	4 32.96	+53 29.5	1.589	2.291	21.4	19.4
10 28	4 8.09	+ 4 41.3	1.135	2.055	14.1	18.6	10 28	4 24.02	+54 3.3	1.535	2.315	18.8	19.3
11 7	4 0.73	+ 4 39.0	1.109	2.065	9.9	18.4	11 7	4 10.56	+54 1.9	1.497	2.338	16.1	19.2
11 17	3 51.51	+ 4 53.3	1.105	2.076	7.1	18.3	11 17	3 54.43	+53 17.2	1.479	2.361	13.8	19.1
11 27	3 41.93	+ 5 27.0	1.126	2.089	8.1	18.4	11 27	3 38.27	+51 47.4	1.484	2.383	12.4	19.1
12 7	3 33.53	+ 6 19.9	1.171	2.103	11.6	18.7	12 7	3 24.60	+49 40.6	1.514	2.405	12.7	19.2
12 17	3 27.49	+ 7 29.2	1.238	2.119	15.6	18.9	12 17	3 14.98	+47 11.4	1.569	2.426	14.2	19.3
12 27	3 24.52	+ 8 51.1	1.326	2.136	19.0	19.2	12 27	3 9.95	+44 36.1	1.647	2.446	16.4	19.5
<b>432633</b>	2010 VB <sub>131</sub>		11 21.2 3°22'	2°0'/20.4	18		<b>112830</b>	2002 QP <sub>12</sub>		11 21.2 110°87'	1°8'/20.3	18	
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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>26740</b>	Camacho		11 21.2	88°86	0°5/20.9	18	<b>90909</b>	1997 GD <sub>3</sub>		11 21.2	33°98	0°9/21.7	18
10 18	4 11.82	+19 38.0	2.396	3.224	11.4	19.6	10 18	4 12.76	+23 9.3	1.807	2.643	14.2	19.8
10 28	4 6.33	+19 20.4	2.333	3.240	8.4	19.5	10 28	4 7.66	+23 4.5	1.741	2.651	10.7	19.6
11 7	3 59.18	+18 58.3	2.295	3.256	5.1	19.3	11 7	4 0.28	+22 51.5	1.699	2.659	6.6	19.4
11 17	3 51.01	+18 33.0	2.285	3.271	1.5	19.1	11 17	3 51.42	+22 30.7	1.683	2.668	2.3	19.1
11 27	3 42.66	+18 7.0	2.306	3.287	2.2	19.2	11 27	3 42.23	+22 4.4	1.695	2.677	2.6	19.2
12 7	3 34.96	+17 42.8	2.356	3.302	5.7	19.4	12 7	3 33.87	+21 36.5	1.735	2.686	6.8	19.5
12 17	3 28.62	+17 23.3	2.435	3.317	8.8	19.6	12 17	3 27.30	+21 11.1	1.801	2.696	10.7	19.7
12 27	3 24.14	+17 10.6	2.539	3.332	11.5	19.8	12 27	3 23.20	+20 52.0	1.891	2.706	14.0	19.9
<b>411972</b>	2012 HU <sub>56</sub>		11 21.2	198°74	2°3/19.7	17	<b>413167</b>	2002 PX <sub>176</sub>		11 21.2	24°96	11°6/14.4	18
10 18	4 10.33	+13 39.2	2.600	3.433	10.5	22.1	10 18	4 9.50	-12 31.3	2.009	2.804	14.5	20.2
10 28	4 5.19	+13 3.0	2.522	3.430	7.8	21.9	10 28	4 4.85	-13 55.8	1.969	2.810	12.9	20.1
11 7	3 58.50	+12 25.6	2.469	3.428	4.9	21.8	11 7	3 58.39	-15 0.8	1.950	2.816	11.8	20.0
11 17	3 50.83	+11 49.4	2.445	3.425	2.5	21.6	11 17	3 50.82	-15 39.9	1.955	2.822	11.6	20.0
11 27	3 42.89	+11 17.3	2.451	3.422	3.4	21.7	11 27	3 43.05	-15 48.9	1.982	2.829	12.3	20.1
12 7	3 35.45	+10 52.1	2.487	3.419	6.3	21.8	12 7	3 35.99	-15 27.3	2.032	2.836	13.6	20.2
12 17	3 29.16	+10 35.8	2.551	3.415	9.1	22.0	12 17	3 30.38	-14 37.5	2.103	2.844	15.2	20.3
12 27	3 24.54	+10 29.7	2.640	3.412	11.7	22.2	12 27	3 26.77	-13 24.5	2.191	2.852	16.8	20.5
<b>411604</b>	2011 GD <sub>75</sub>		11 21.2	282°39	2°1/22.1	17	<b>453761</b>	2011 EH <sub>11</sub>		11 21.2	300°39	3°4/19.2	17
10 18	4 14.84	+25 21.3	2.389	3.202	12.0	21.2	10 18	4 9.75	+11 44.1	2.159	3.001	12.0	21.2
10 28	4 9.01	+25 56.0	2.295	3.189	9.2	21.0	10 28	4 5.13	+11 0.5	2.076	2.988	9.1	21.0
11 7	4 1.08	+26 24.5	2.225	3.177	6.0	20.8	11 7	3 58.66	+10 16.5	2.017	2.975	5.9	20.8
11 17	3 51.67	+26 45.4	2.184	3.164	2.9	20.6	11 17	3 50.95	+ 9 35.4	1.986	2.963	3.5	20.6
11 27	3 41.68	+26 58.0	2.173	3.151	2.8	20.6	11 27	3 42.84	+ 9 1.3	1.983	2.951	4.6	20.6
12 7	3 32.13	+27 3.6	2.192	3.138	6.0	20.8	12 7	3 35.25	+ 8 37.4	2.009	2.938	7.7	20.8
12 17	3 23.94	+27 4.6	2.239	3.126	9.3	20.9	12 17	3 28.99	+ 8 26.2	2.062	2.926	11.0	21.0
12 27	3 17.87	+27 4.5	2.311	3.113	12.2	21.1	12 27	3 24.68	+ 8 28.5	2.137	2.914	13.9	21.2
<b>195749</b>	2002 PZ <sub>103</sub>		11 21.2	318°80	3°0/23.2	17	<b>355331</b>	2007 TG <sub>56</sub>		11 21.2	0°03	0°4/21.1	17
10 18	4 12.00	+30 59.0	2.220	3.027	12.9	19.8	10 18	4 13.07	+21 4.8	1.651	2.495	15.0	21.5
10 28	4 6.91	+30 47.9	2.135	3.023	10.1	19.6	10 28	4 8.10	+20 37.1	1.579	2.494	11.2	21.3
11 7	3 59.75	+30 23.4	2.074	3.018	6.9	19.4	11 7	4 0.66	+20 0.9	1.530	2.494	6.8	21.0
11 17	3 51.23	+29 45.1	2.039	3.014	3.9	19.2	11 17	3 51.56	+19 18.3	1.507	2.494	2.0	20.7
11 27	3 42.35	+28 54.8	2.034	3.010	3.3	19.2	11 27	3 42.05	+18 33.1	1.512	2.494	2.9	20.8
12 7	3 34.14	+27 56.5	2.057	3.006	6.1	19.3	12 7	3 33.38	+17 50.5	1.545	2.494	7.7	21.1
12 17	3 27.50	+26 55.6	2.109	3.002	9.4	19.5	12 17	3 26.63	+17 15.2	1.603	2.495	11.9	21.3
12 27	3 23.07	+25 57.7	2.185	2.998	12.4	19.7	12 27	3 22.52	+16 51.2	1.683	2.496	15.5	21.6
<b>15203</b>	Grishanin		11 21.2	33°96	2°4/22.2	18 R	<b>181672</b>	2008 BV <sub>23</sub>		11 21.2	19°71	4°7/19.7	18
10 18	4 15.38	+25 48.0	1.188	2.041	19.0	17.0	10 18	4 15.44	+11 21.6	1.235	2.097	17.9	20.2
10 28	4 10.50	+25 53.6	1.139	2.055	14.4	16.8	10 28	4 10.38	+10 47.6	1.176	2.099	13.5	19.9
11 7	4 2.32	+25 45.0	1.109	2.069	9.2	16.5	11 7	4 2.25	+10 15.4	1.138	2.101	8.7	19.7
11 17	3 52.03	+25 21.8	1.102	2.085	3.9	16.3	11 17	3 52.07	+ 9 50.0	1.124	2.104	5.0	19.5
11 27	3 41.37	+24 47.0	1.120	2.102	3.7	16.3	11 27	3 41.39	+ 9 36.4	1.135	2.107	6.3	19.6
12 7	3 32.12	+24 6.9	1.163	2.119	8.7	16.7	12 7	3 31.82	+ 9 38.3	1.171	2.110	10.8	19.8
12 17	3 25.58	+23 28.7	1.230	2.137	13.5	17.0	12 17	3 24.65	+ 9 57.2	1.230	2.114	15.4	20.1
12 27	3 22.50	+22 58.6	1.318	2.156	17.6	17.3	12 27	3 20.72	+10 32.4	1.308	2.118	19.3	20.4
<b>55281</b>	2001 SH <sub>20</sub>		11 21.2	136°39	0°6/20.9	18	<b>8295</b>	Toshifukushima		11 21.2	10°08	2°5/20.5	18
10 18	4 13.50	+19 16.8	2.007	2.842	13.1	19.0	10 18	4 14.17	+13 2.2	1.495	2.348	15.8	16.5
10 28	4 7.99	+19 1.9	1.934	2.845	9.7	18.8	10 28	4 9.07	+13 13.0	1.431	2.350	11.8	16.3
11 7	4 0.39	+18 41.9	1.885	2.847	5.9	18.6	11 7	4 1.32	+13 25.9	1.389	2.353	7.3	16.0
11 17	3 51.44	+18 18.2	1.863	2.849	1.8	18.3	11 17	3 51.79	+13 42.3	1.372	2.356	3.1	15.8
11 27	3 42.12	+17 53.4	1.871	2.852	2.7	18.4	11 27	3 41.76	+14 3.9	1.383	2.361	4.2	15.8
12 7	3 33.52	+17 30.8	1.907	2.854	6.7	18.7	12 7	3 32.61	+14 31.9	1.420	2.366	8.6	16.1
12 17	3 26.51	+17 13.5	1.971	2.856	10.4	18.9	12 17	3 25.49	+15 7.0	1.482	2.372	12.9	16.4
12 27	3 21.75	+17 4.3	2.058	2.858	13.6	19.1	12 27	3 21.18	+15 49.8	1.566	2.378	16.5	16.6
<b>287784</b>	2003 SG <sub>116</sub>		11 21.2	58°54	4°7/19.9	18	<b>443492</b>	2014 JE <sub>24</sub>		11 21.2	285°80	2°6/20.5	18
10 18	4 18.55	+10 24.8	1.188	2.047	18.6	19.9	10 18	4 17.44	+11 54.3	1.735	2.574	14.6	20.8
10 28	4 12.51	+10 7.2	1.143	2.063	14.0	19.7	10 28	4 11.37	+12 10.1	1.653	2.564	11.0	20.5
11 7	4 3.39	+ 9 54.1	1.118	2.080	9.0	19.4	11 7	4 2.73	+12 29.2	1.594	2.554	7.0	20.3
11 17	3 52.35	+ 9 49.2	1.118	2.097	5.0	19.3	11 17	3 52.24	+12 52.8	1.561	2.544	3.2	20.0
11 27	3 41.03	+ 9 56.2	1.143	2.115	6.2	19.4	11 27	3 41.09	+13 22.0	1.558	2.534	4.1	20.1
12 7	3 31.10	+10 16.9	1.193	2.133	10.6	19.7	12 7	3 30.57	+13 57.6	1.583	2.524	8.3	20.3
12 17	3 23.76	+10 51.3	1.266	2.151	15.0	20.0	12 17	3 21.86	+14 40.0	1.635	2.515	12.5	20.5
12 27	3 19.74	+11 38.3	1.360	2.169	18.8	20.3	12 27	3 15.81	+15 29.5	1.709	2.505	16.0	20.7
<b>140762</b>	2001 UQ <sub>120</sub>		11 21.2	113°49	0°6/20.9	18	<b>162337</b>	1999 XK <sub>124</sub>		11 21.2	4°01	4°8/23.9	18
10 18	4 13.96	+19 3.3	2.055	2.888	12.9	20.6	10 18	4 12.00	+33 57.2	1.322	2.153	18.8	18.5
10 28	4 8.26	+18 54.1	1.985	2.895	9.6	20.4	10 28	4 8.10	+33 37.2	1.254	2.152	14.9	18.3
11 7	4 0.52	+18 40.4	1.940	2.901	5.8	20.2	11 7	4 0.97	+32 52.7	1.206	2.152	10.5	18.0
11 17	3 51.48	+18 23.4	1.922	2.908	1.8	20.0	11 17	3 51.69	+31 42.7	1.180	2.154	6.2	17.8
11 27	3 42.11	+18 5.2	1.934	2.915	2.6	20.0	11 27	3 41.94	+30 11.0	1.180	2.156	5.1	17.8
12 7	3 33.47	+17 48.8	1.975	2.921	6.5	20.3	12 7	3 33.43	+28 27.0	1.205	2.159	8.7	18.0
12 17	3 26.40	+17 37.1	2.043	2.927	10.1	20.5	12 17	3 27.48	+26 42.2	1.255	2.164	13.1	18.2
12 27	3 21.55	+17 32.5	2.135	2.933	13.2	20.8	12 27	3 24.88	+25 7.0	1.326	2.170	17.1	18.5
<b>373946</b>	2003 UT <sub>408</sub>		11 21.2	296°56	5°6/19.1	18	<b>99219</b>	2001 HY <sub>53</sub>		11 21.2	171°28	5°7/18.7	18
10 18	4 14.34	+ 9 52.9	1.334</										



EPHEMERIDES

11 21.2

11 21.3

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>364545</b>	2007 <i>GK</i> <sub>7</sub>		11 21.2 118°81'	2°7/19.5	18		<b>152430</b>	2005 <i>UX</i> <sub>406</sub>		11 21.3 280°53'	1°5/20.5	18	
10 18	4 10.89	+13 9.4	2.396	3.231	11.2	21.3	10 18	4 12.34	+17 7.4	2.027	2.865	12.8	21.0
10 28	4 5.64	+12 23.8	2.330	3.240	8.3	21.2	10 28	4 7.14	+16 44.5	1.951	2.864	9.5	20.8
11 7	3 58.79	+11 37.3	2.291	3.250	5.3	21.0	11 7	3 59.91	+16 17.9	1.900	2.862	5.8	20.5
11 17	3 50.95	+10 52.9	2.280	3.259	2.9	20.9	11 17	3 51.35	+15 49.7	1.876	2.861	2.1	20.3
11 27	3 42.93	+10 14.2	2.299	3.268	3.9	20.9	11 27	3 42.43	+15 22.9	1.881	2.860	3.1	20.4
12 7	3 35.51	+9 44.1	2.347	3.276	6.7	21.1	12 7	3 34.15	+15 0.8	1.915	2.858	7.0	20.6
12 17	3 29.37	+9 24.7	2.423	3.285	9.6	21.3	12 17	3 27.40	+14 46.2	1.976	2.857	10.6	20.8
12 27	3 25.02	+9 17.2	2.522	3.293	12.2	21.5	12 27	3 22.83	+14 41.3	2.060	2.856	13.7	21.0
<b>1241</b>	Dysona		11 21.2 132°40'	8°7/28.5	18		<b>420932</b>	2013 <i>NE</i> <sub>23</sub>		11 21.3 173°36'	1°3/22.2	17	
10 18	4 21.09	+51 40.0	2.724	3.402	13.8	15.1	10 18	4 11.30	+26 12.7	2.524	3.339	11.3	21.4
10 28	4 13.97	+52 22.0	2.647	3.409	12.2	15.0	10 28	4 6.08	+25 52.3	2.443	3.340	8.6	21.2
11 7	4 4.19	+52 43.6	2.591	3.416	10.6	14.9	11 7	3 59.14	+25 22.8	2.387	3.341	5.5	21.1
11 17	3 52.64	+52 40.5	2.557	3.422	9.3	14.8	11 17	3 51.10	+24 44.7	2.359	3.341	2.2	20.8
11 27	3 40.64	+52 10.9	2.549	3.428	8.7	14.7	11 27	3 42.80	+24 0.3	2.361	3.342	2.2	20.8
12 7	3 29.59	+51 17.2	2.567	3.434	9.0	14.8	12 7	3 35.07	+23 13.0	2.393	3.342	5.3	21.1
12 17	3 20.64	+50 4.6	2.610	3.440	10.1	14.9	12 17	3 28.67	+22 26.8	2.453	3.342	8.5	21.3
12 27	3 14.54	+48 40.8	2.678	3.445	11.6	15.0	12 27	3 24.13	+21 45.4	2.540	3.342	11.2	21.4
<b>231488</b>	2008 <i>PO</i> <sub>6</sub>		11 21.2 39°27'	6°6/18.7	18		<b>27081</b>	1998 <i>TK</i> <sub>16</sub>		11 21.3 329°63'	5°7/18.9	18	
10 18	4 13.23	+8 15.7	1.259	2.122	17.5	18.9	10 18	4 13.16	+9 34.3	1.364	2.223	16.6	18.3
10 28	4 8.40	+7 8.9	1.215	2.136	13.3	18.6	10 28	4 8.53	+8 40.4	1.297	2.217	12.7	18.0
11 7	4 0.83	+6 7.4	1.193	2.150	9.2	18.5	11 7	4 1.11	+7 48.5	1.252	2.211	8.6	17.8
11 17	3 51.60	+5 18.3	1.194	2.165	6.6	18.4	11 17	3 51.78	+7 4.8	1.231	2.205	5.8	17.6
11 27	3 42.14	+4 48.1	1.220	2.180	8.0	18.5	11 27	3 41.89	+6 35.7	1.235	2.200	7.2	17.7
12 7	3 33.87	+4 40.3	1.271	2.197	11.6	18.7	12 7	3 32.90	+6 25.5	1.265	2.195	11.2	17.9
12 17	3 27.86	+4 54.9	1.344	2.213	15.4	19.0	12 17	3 26.03	+6 36.1	1.318	2.191	15.3	18.1
12 27	3 24.77	+5 29.7	1.437	2.230	18.7	19.3	12 27	3 22.11	+7 6.4	1.390	2.187	19.0	18.4
<b>145227</b>	2005 <i>JG</i> <sub>67</sub>		11 21.2 84°02'	6°1/18.0	18		<b>147315</b>	2003 <i>BK</i> <sub>2</sub>		11 21.3 331°18'	4°2/23.5	17	
10 18	4 12.45	+5 48.7	1.853	2.694	13.7	19.6	10 18	4 13.37	+32 11.6	1.727	2.543	15.7	19.8
10 28	4 7.10	+4 40.5	1.801	2.707	10.6	19.4	10 28	4 8.61	+32 13.9	1.644	2.535	12.4	19.5
11 7	3 59.78	+3 37.6	1.773	2.720	7.7	19.3	11 7	4 1.13	+31 59.5	1.584	2.527	8.7	19.3
11 17	3 51.26	+2 45.7	1.772	2.732	6.1	19.2	11 17	3 51.79	+31 26.5	1.547	2.520	5.2	19.1
11 27	3 42.55	+2 9.7	1.798	2.745	7.1	19.3	11 27	3 41.88	+30 36.2	1.538	2.513	4.5	19.0
12 7	3 34.66	+1 52.4	1.851	2.757	9.8	19.5	12 7	3 32.80	+29 33.6	1.557	2.506	7.6	19.2
12 17	3 28.38	+1 54.6	1.929	2.770	12.7	19.7	12 17	3 25.76	+28 25.9	1.601	2.500	11.5	19.4
12 27	3 24.30	+2 14.9	2.028	2.782	15.3	19.9	12 27	3 21.58	+27 21.0	1.668	2.495	15.0	19.6
<b>71344</b>	2000 <i>AF</i> <sub>103</sub>		11 21.2 51°20'	3°0/19.9	18		<b>216367</b>	2008 <i>AE</i> <sub>101</sub>		11 21.3 192°93'	2°8/19.8	18	
10 18	4 13.99	+14 27.2	1.505	2.358	15.7	19.0	10 18	4 12.22	+14 20.9	1.954	2.796	13.1	20.8
10 28	4 8.69	+13 50.2	1.453	2.372	11.7	18.8	10 28	4 7.06	+13 38.8	1.882	2.796	9.8	20.5
11 7	4 0.92	+13 11.5	1.423	2.387	7.2	18.6	11 7	3 59.87	+12 54.4	1.835	2.796	6.1	20.3
11 17	3 51.62	+12 35.1	1.419	2.402	3.4	18.4	11 17	3 51.36	+12 11.2	1.814	2.796	3.0	20.1
11 27	3 42.08	+12 5.5	1.442	2.417	4.7	18.5	11 27	3 42.51	+11 33.2	1.822	2.795	4.2	20.2
12 7	3 33.58	+11 46.7	1.492	2.432	8.8	18.8	12 7	3 34.35	+11 4.2	1.859	2.795	7.7	20.4
12 17	3 27.12	+11 40.9	1.566	2.448	12.8	19.1	12 17	3 27.74	+10 46.9	1.922	2.795	11.3	20.6
12 27	3 23.34	+11 49.2	1.663	2.464	16.2	19.3	12 27	3 23.34	+10 42.9	2.008	2.794	14.3	20.9
<b>111897</b>	2002 <i>FP</i> <sub>4</sub>		11 21.3 123°96'	2°5/20.2	18		<b>127379</b>	2002 <i>KR</i> <sub>3</sub>		11 21.3 51°45'	10°6/14.9	18	
10 18	4 17.88	+16 1.3	1.563	2.406	15.7	19.5	10 18	4 10.21	-10 58.5	2.126	2.922	13.8	19.3
10 28	4 11.57	+15 22.7	1.503	2.418	11.7	19.3	10 28	4 5.29	-12 18.3	2.084	2.929	12.1	19.2
11 7	4 2.68	+14 40.5	1.467	2.429	7.2	19.1	11 7	3 58.65	-13 20.7	2.064	2.937	10.9	19.1
11 17	3 52.17	+13 57.9	1.456	2.440	3.0	18.9	11 17	3 50.96	-13 59.6	2.068	2.944	10.6	19.1
11 27	3 41.37	+13 19.6	1.474	2.451	4.3	19.0	11 27	3 43.07	-14 11.1	2.096	2.952	11.3	19.2
12 7	3 31.63	+12 50.2	1.520	2.461	8.7	19.3	12 7	3 35.86	-13 54.4	2.148	2.960	12.7	19.3
12 17	3 23.99	+12 33.2	1.591	2.470	12.8	19.5	12 17	3 30.05	-13 11.6	2.221	2.968	14.3	19.4
12 27	3 19.16	+12 30.2	1.684	2.480	16.3	19.8	12 27	3 26.16	-12 6.9	2.313	2.976	15.9	19.6
<b>57698</b>	2001 <i>UC</i> <sub>86</sub>		11 21.3 236°38'	1°4/20.6	18		<b>262329</b>	2006 <i>TA</i> <sub>36</sub>		11 21.3 278°13'	0°3/21.1	18	
10 18	4 15.57	+17 50.4	1.817	2.655	14.1	20.5	10 18	4 12.71	+21 10.3	1.939	2.774	13.4	20.9
10 28	4 9.86	+17 24.8	1.733	2.645	10.6	20.3	10 28	4 7.59	+20 44.0	1.858	2.769	10.1	20.7
11 7	4 1.73	+16 54.0	1.673	2.635	6.5	20.0	11 7	4 0.28	+20 10.1	1.801	2.763	6.1	20.5
11 17	3 51.94	+16 20.0	1.639	2.625	2.2	19.7	11 17	3 51.50	+19 30.1	1.771	2.757	1.8	20.2
11 27	3 41.60	+15 46.3	1.635	2.614	3.4	19.8	11 27	3 42.30	+18 47.4	1.769	2.751	2.6	20.2
12 7	3 31.94	+15 17.0	1.659	2.603	7.8	20.0	12 7	3 33.78	+18 6.1	1.797	2.745	6.9	20.5
12 17	3 24.04	+14 55.9	1.709	2.591	11.9	20.3	12 17	3 26.89	+17 30.6	1.851	2.739	10.8	20.7
12 27	3 18.67	+14 46.0	1.783	2.579	15.5	20.5	12 27	3 22.33	+17 4.6	1.929	2.734	14.1	20.9
<b>399290</b>	2014 <i>HS</i> <sub>143</sub>		11 21.3 341°24'	0°6/21.4	18		<b>138314</b>	2000 <i>GG</i> <sub>70</sub>		11 21.3 94°02'	2°2/22.3	18	
10 18	4 14.47	+20 23.5	1.300	2.156	17.5	20.2	10 18	4 16.39	+26 17.7	1.973	2.791	13.9	19.6
10 28	4 9.97	+20 46.5	1.227	2.147	13.2	19.9	10 28	4 10.25	+26 29.9	1.907	2.805	10.6	19.4
11 7	4 2.24	+21 4.3	1.174	2.139	8.2	19.6	11 7	4 1.83	+26 32.3	1.865	2.818	6.8	19.2
11 17	3 52.17	+21 16.0	1.146	2.132	2.7	19.2	11 17	3 51.95	+26 24.1	1.850	2.831	3.1	19.0
11 27	3 41.26	+21 22.5	1.143	2.125	3.3	19.3	11 27	3 41.75	+26 6.5	1.864	2.844	2.9	19.0
12 7	3 31.25	+21 26.4	1.165	2.119	8.9	19.6	12 7	3 32.40	+25 42.6	1.907	2.856	6.5	19.3
12 17	3 23.62	+21 31.5	1.211	2.115	14.0	19.8	12 17	3 24.85	+25 16.9	1.977	2.869	10.1	19.5
12 27	3 19.37	+21 42.1	1.278	2.111	18.3	20.1	12 27	3 19.76	+24 53.7	2.072	2.881	13.1	19.7
<b>204493</b>	2005 <i>CJ</i> <sub>1</sub>		11 21.3 298°13'	0°8/21.6	18		<b>339037</b>	2004 <i>JH</i> <sub>1</sub>		11 21.3 161°55'</			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>69968</b>	1998 VX <sub>51</sub>		11 21.3	8°36'	3°9'/19.9	18	<b>313281</b>	2002 AR <sub>170</sub>		11 21.3	295°31'	4°3'/23.5	17
10 18	4 14.22	+ 7 58.4	1.970	2.806	13.2	18.8	10 18	4 14.46	+32 20.4	1.983	2.788	14.3	21.3
10 28	4 8.54	+ 8 4.5	1.900	2.807	10.1	18.6	10 28	4 9.27	+32 36.0	1.889	2.772	11.4	21.1
11 7	4 0.78	+ 8 16.1	1.853	2.808	6.7	18.4	11 7	4 1.54	+32 37.6	1.817	2.756	8.1	20.9
11 17	3 51.66	+ 8 35.2	1.834	2.809	4.1	18.2	11 17	3 51.98	+32 22.8	1.771	2.740	5.1	20.7
11 27	3 42.14	+ 9 3.4	1.844	2.811	4.9	18.3	11 27	3 41.77	+31 51.4	1.753	2.724	4.6	20.6
12 7	3 33.28	+ 9 41.1	1.882	2.814	8.0	18.5	12 7	3 32.18	+31 6.8	1.763	2.708	7.3	20.7
12 17	3 25.97	+10 28.1	1.948	2.816	11.3	18.7	12 17	3 24.39	+30 14.7	1.799	2.693	10.8	20.9
12 27	3 20.87	+11 23.5	2.036	2.819	14.3	18.9	12 27	3 19.23	+29 21.8	1.860	2.677	14.1	21.1
<b>377474</b>	2005 AW <sub>18</sub>		11 21.3	212°31'	5°0'/25.7	18	<b>211404</b>	2002 VU <sub>57</sub>		11 21.3	58°05'	2°6'/19.9	18
10 18	4 15.41	+42 0.4	3.283	4.016	10.7	21.5	10 18	4 12.69	+15 40.1	1.751	2.597	14.2	20.3
10 28	4 9.06	+42 7.9	3.185	4.008	8.9	21.3	10 28	4 7.56	+14 53.2	1.687	2.603	10.5	20.1
11 7	4 0.94	+42 1.2	3.110	3.999	7.1	21.2	11 7	4 0.24	+14 2.8	1.647	2.610	6.5	19.9
11 17	3 51.68	+41 38.2	3.062	3.990	5.6	21.1	11 17	3 51.51	+13 12.6	1.634	2.617	2.9	19.7
11 27	3 42.10	+40 58.9	3.043	3.981	5.1	21.0	11 27	3 42.50	+12 27.5	1.649	2.624	4.2	19.8
12 7	3 33.08	+40 5.5	3.054	3.971	5.9	21.1	12 7	3 34.32	+11 51.7	1.692	2.631	8.1	20.0
12 17	3 25.37	+39 2.0	3.094	3.960	7.6	21.2	12 17	3 27.89	+11 28.6	1.760	2.638	11.8	20.3
12 27	3 19.55	+37 53.4	3.160	3.949	9.5	21.3	12 27	3 23.85	+11 19.9	1.851	2.645	15.1	20.5
<b>17411</b>	1988 DF <sub>3</sub>		11 21.3	24°26'	2°8'/22.6	18	<b>172252</b>	2002 RR <sub>263</sub>		11 21.3	97°04'	0°2'/21.4	18
10 18	4 14.59	+28 39.9	1.119	1.971	20.0	17.1	10 18	4 14.73	+22 33.0	1.868	2.700	14.0	21.3
10 28	4 10.26	+28 15.5	1.062	1.977	15.4	16.9	10 28	4 9.02	+22 8.7	1.803	2.711	10.5	21.1
11 7	4 2.38	+27 30.3	1.024	1.983	10.0	16.6	11 7	4 1.09	+21 35.7	1.761	2.722	6.4	20.9
11 17	3 52.19	+26 24.9	1.008	1.990	4.5	16.3	11 17	3 51.78	+20 55.7	1.746	2.732	2.0	20.6
11 27	3 41.53	+25 4.7	1.016	1.998	3.9	16.3	11 27	3 42.18	+20 11.9	1.760	2.742	2.5	20.7
12 7	3 32.33	+23 39.7	1.050	2.007	9.2	16.6	12 7	3 33.46	+19 28.8	1.803	2.753	6.8	21.0
12 17	3 25.99	+22 20.5	1.107	2.017	14.4	17.0	12 17	3 26.52	+18 51.0	1.873	2.763	10.6	21.2
12 27	3 23.30	+21 15.7	1.183	2.027	18.8	17.3	12 27	3 22.01	+18 22.1	1.967	2.772	13.9	21.5
<b>71275</b>	2000 AM <sub>39</sub>		11 21.3	288°21'	4°8'/24.1	17	<b>176936</b>	2002 WA <sub>9</sub>		11 21.3	258°31'	1°9'/22.5	18
10 18	4 14.29	+35 3.4	2.261	3.049	13.3	19.6	10 18	4 14.05	+28 33.6	1.929	2.748	14.2	19.4
10 28	4 8.83	+35 23.5	2.172	3.041	10.8	19.4	10 28	4 8.66	+27 54.2	1.847	2.745	10.9	19.2
11 7	4 1.09	+35 29.3	2.106	3.033	7.9	19.2	11 7	4 0.95	+26 59.8	1.788	2.741	7.0	19.0
11 17	3 51.78	+35 18.5	2.067	3.026	5.5	19.0	11 17	3 51.75	+25 51.3	1.755	2.737	3.1	18.7
11 27	3 41.96	+34 51.0	2.055	3.018	4.9	19.0	11 27	3 42.19	+24 32.5	1.752	2.733	2.8	18.7
12 7	3 32.78	+34 9.5	2.072	3.011	6.9	19.1	12 7	3 33.45	+23 9.5	1.779	2.730	6.7	18.9
12 17	3 25.25	+33 19.0	2.117	3.004	9.7	19.3	12 17	3 26.50	+21 49.4	1.832	2.726	10.6	19.2
12 27	3 20.12	+32 25.9	2.186	2.996	12.5	19.4	12 27	3 22.02	+20 38.4	1.911	2.722	14.0	19.4
<b>41921</b>	2000 WL <sub>158</sub>		11 21.3	20°68'	0°3'/21.3	18	<b>12960</b>	4165 T <sub>-2</sub>		11 21.3	2°93'	3°2'/19.9	18
10 18	4 17.45	+18 44.7	1.424	2.271	16.7	18.2	10 18	4 12.18	+14 38.5	1.519	2.374	15.5	18.2
10 28	4 11.79	+19 20.7	1.359	2.275	12.6	18.0	10 28	4 7.57	+13 55.9	1.453	2.373	11.6	18.0
11 7	4 3.15	+19 54.0	1.316	2.280	7.7	17.7	11 7	4 0.43	+13 10.7	1.409	2.373	7.2	17.7
11 17	3 52.44	+20 23.3	1.299	2.285	2.4	17.4	11 17	3 51.61	+12 26.8	1.391	2.373	3.5	17.5
11 27	3 41.12	+20 48.6	1.308	2.290	3.1	17.5	11 27	3 42.37	+11 49.4	1.400	2.374	4.8	17.6
12 7	3 30.78	+21 11.1	1.345	2.297	8.3	17.8	12 7	3 34.01	+11 23.1	1.435	2.376	9.1	17.9
12 17	3 22.72	+21 33.4	1.406	2.303	12.9	18.1	12 17	3 27.59	+11 11.2	1.494	2.378	13.2	18.1
12 27	3 17.82	+21 58.4	1.490	2.311	16.8	18.4	12 27	3 23.86	+11 14.8	1.575	2.380	16.8	18.4
<b>64861</b>	2001 YL <sub>49</sub>		11 21.3	359°48'	1°2'/21.7	18	<b>456052</b>	2006 AS <sub>14</sub>		11 21.3	302°58'	5°2'/18.6	17
10 18	4 16.15	+22 33.2	1.470	2.314	16.5	18.8	10 18	4 11.14	+ 5 47.0	2.101	2.938	12.5	20.9
10 28	4 10.84	+22 46.0	1.400	2.313	12.5	18.6	10 28	4 6.17	+ 5 9.7	2.027	2.931	9.7	20.7
11 7	4 2.57	+22 50.6	1.351	2.312	7.8	18.3	11 7	3 59.34	+ 4 37.4	1.977	2.925	6.9	20.5
11 17	3 52.27	+22 46.5	1.327	2.312	2.8	18.0	11 17	3 51.26	+ 4 13.9	1.954	2.918	5.2	20.4
11 27	3 41.35	+22 35.0	1.330	2.312	3.1	18.1	11 27	3 42.83	+ 4 2.9	1.960	2.912	6.2	20.5
12 7	3 31.36	+22 19.8	1.360	2.313	8.1	18.4	12 7	3 34.96	+ 4 6.6	1.993	2.906	8.8	20.6
12 17	3 23.62	+22 5.5	1.415	2.313	12.7	18.6	12 17	3 28.47	+ 4 25.5	2.052	2.900	11.7	20.8
12 27	3 19.97	+21 56.9	1.491	2.314	16.7	18.9	12 27	3 23.97	+ 4 59.0	2.133	2.895	14.4	21.0
<b>328368</b>	2008 QT <sub>10</sub>		11 21.3	69°04'	4°5'/18.6	18	<b>57857</b>	2001 XJ <sub>203</sub>		11 21.3	140°52'	3°2'/19.9	18
10 18	4 10.40	+ 8 11.1	2.196	3.035	12.0	20.7	10 18	4 16.62	+12 15.0	1.817	2.655	14.1	19.6
10 28	4 5.36	+ 7 17.8	2.142	3.050	9.1	20.6	10 28	4 10.41	+11 50.2	1.752	2.663	10.6	19.4
11 7	3 58.67	+ 6 27.6	2.113	3.065	6.2	20.4	11 7	4 1.95	+11 25.9	1.712	2.671	6.7	19.2
11 17	3 50.98	+ 5 44.5	2.111	3.079	4.5	20.4	11 17	3 52.05	+11 5.2	1.698	2.678	3.5	19.0
11 27	3 43.13	+ 5 12.3	2.139	3.094	5.5	20.4	11 27	3 41.83	+10 51.2	1.713	2.685	4.6	19.1
12 7	3 35.95	+ 4 53.7	2.194	3.109	8.0	20.6	12 7	3 32.44	+10 46.6	1.756	2.691	8.2	19.3
12 17	3 30.13	+ 4 49.6	2.276	3.124	10.7	20.8	12 17	3 24.82	+10 53.2	1.826	2.697	11.9	19.6
12 27	3 26.16	+ 4 59.8	2.380	3.139	13.1	21.0	12 27	3 19.63	+11 11.5	1.919	2.702	15.0	19.8
<b>108567</b>	2001 MY		11 21.3	80°50'	0°3'/21.4	18	<b>116145</b>	2003 WA <sub>156</sub>		11 21.3	288°33'	3°4'/19.3	18
10 18	4 18.83	+22 9.9	1.491	2.329	16.6	20.1	10 18	4 10.11	+10 46.5	2.311	3.149	11.5	19.9
10 28	4 12.37	+21 55.7	1.440	2.351	12.4	19.9	10 28	4 5.34	+10 11.8	2.227	3.136	8.7	19.7
11 7	4 3.20	+21 32.4	1.412	2.373	7.5	19.7	11 7	3 58.81	+ 9 37.7	2.167	3.124	5.7	19.5
11 17	3 52.38	+21 1.3	1.409	2.395	2.3	19.4	11 17	3 51.12	+ 9 7.4	2.135	3.111	3.5	19.3
11 27	3 41.38	+20 25.8	1.434	2.416	2.9	19.5	11 27	3 43.04	+ 8 44.0	2.132	3.098	4.5	19.4
12 7	3 31.61	+19 50.9	1.487	2.437	7.8	19.8	12 7	3 35.43	+ 8 30.3	2.158	3.085	7.4	19.6
12 17	3 24.15	+19 21.7	1.565	2.458	12.1	20.2	12 17	3 29.06	+ 8 28.1	2.211	3.073	10.5	19.7
12 27	3 19.67	+19 2.0	1.666	2.478	15.7	20.4	12 27	3 24.53	+ 8 38.2	2.287	3.060	13.2	19.9
<b>84044</b>	2002 PB <sub>58</sub>		11 21.3	20°76'	5°9'/23.8	18	<b>432250</b>	2009 RE <sub>10</sub>		11 21.3	82°79'	2°9'/22.5	18
10 18	4 14.09	+32 44.7</											

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>259882</b>	2004 <i>DN</i> <sub>24</sub>		11 21.3 299°59	4.5°/22.9	18		<b>403705</b>	2010 <i>VN</i> <sub>166</sub>		11 21.3 212°64	0°0'/21.3	18	
10 18	4 16.60	+30 0.5	1.400	2.231	17.9	20.1	10 18	4 13.29	+20 46.1	2.127	2.957	12.6	21.2
10 28	4 11.80	+30 22.2	1.314	2.214	14.1	19.8	10 28	4 7.88	+20 39.6	2.049	2.956	9.4	21.0
11 7	4 3.55	+30 28.1	1.248	2.198	9.8	19.5	11 7	4 0.43	+20 27.5	1.995	2.955	5.8	20.8
11 17	3 52.71	+30 14.6	1.206	2.182	5.6	19.3	11 17	3 51.64	+20 10.6	1.968	2.954	1.8	20.5
11 27	3 40.86	+29 41.4	1.189	2.165	5.0	19.2	11 27	3 42.46	+19 50.7	1.971	2.953	2.3	20.6
12 7	3 29.85	+28 52.9	1.198	2.150	9.1	19.4	12 7	3 33.91	+19 30.8	2.004	2.952	6.3	20.8
12 17	3 21.32	+27 57.3	1.231	2.134	13.9	19.6	12 17	3 26.86	+19 14.1	2.063	2.951	9.9	21.1
12 27	3 16.39	+27 4.0	1.285	2.119	18.2	19.8	12 27	3 21.98	+19 3.5	2.147	2.949	13.0	21.3
<b>358789</b>	2008 <i>EQ</i> <sub>10</sub>		11 21.3 97°92	5°2'/18.6	18		<b>263041</b>	2007 <i>GC</i> <sub>47</sub>		11 21.3 202°22	0°5'/21.0	18	
10 18	4 12.22	+ 6 17.2	2.034	2.871	12.8	20.5	10 18	4 13.33	+18 9.6	2.484	3.310	11.2	20.7
10 28	4 6.90	+ 5 30.9	1.974	2.878	9.9	20.3	10 28	4 7.64	+18 12.6	2.402	3.308	8.3	20.5
11 7	3 59.72	+ 4 49.5	1.937	2.885	7.0	20.2	11 7	4 0.19	+18 12.9	2.345	3.305	5.0	20.3
11 17	3 51.37	+ 4 17.1	1.928	2.892	5.3	20.1	11 17	3 51.56	+18 11.0	2.317	3.303	1.6	20.0
11 27	3 42.77	+ 3 57.5	1.947	2.899	6.2	20.1	11 27	3 42.57	+18 8.2	2.319	3.300	2.2	20.1
12 7	3 34.87	+ 3 53.1	1.994	2.906	8.8	20.3	12 7	3 34.08	+18 6.3	2.351	3.297	5.7	20.3
12 17	3 28.44	+ 4 4.5	2.066	2.913	11.7	20.5	12 17	3 26.85	+18 7.4	2.412	3.293	8.9	20.5
12 27	3 24.05	+ 4 30.8	2.161	2.920	14.3	20.7	12 27	3 21.50	+18 13.3	2.499	3.290	11.7	20.7
<b>415388</b>	2013 <i>NQ</i> <sub>10</sub>		11 21.3 43°84	2°5'/20.1	18		<b>273639</b>	2007 <i>DR</i> <sub>53</sub>		11 21.3 157°90	1°5'/20.5	18	
10 18	4 12.54	+12 32.9	2.203	3.039	12.0	20.5	10 18	4 16.29	+17 45.4	2.010	2.841	13.2	21.9
10 28	4 7.14	+12 24.7	2.131	3.041	9.0	20.3	10 28	4 10.03	+17 12.6	1.940	2.848	9.8	21.7
11 7	3 59.89	+12 17.4	2.083	3.042	5.6	20.1	11 7	4 1.69	+16 35.2	1.894	2.855	6.0	21.4
11 17	3 51.44	+12 12.7	2.063	3.044	2.8	19.9	11 17	3 52.00	+15 55.3	1.876	2.861	2.1	21.2
11 27	3 42.65	+12 12.8	2.072	3.046	3.6	19.9	11 27	3 42.03	+15 16.6	1.888	2.866	3.1	21.3
12 7	3 34.46	+12 19.4	2.110	3.047	6.9	20.2	12 7	3 32.82	+14 42.8	1.929	2.871	7.1	21.5
12 17	3 27.64	+12 33.7	2.176	3.049	10.1	20.4	12 17	3 25.27	+14 17.4	1.998	2.874	10.7	21.8
12 27	3 22.81	+12 56.4	2.266	3.051	12.9	20.6	12 27	3 20.01	+14 2.7	2.090	2.878	13.8	22.0
<b>237910</b>	2002 <i>PM</i> <sub>61</sub>		11 21.3 78°14	6°6'/17.9	18		<b>472968</b>	2015 <i>GS</i> <sub>40</sub>		11 21.3 145°63	2°3'/20.4	18	
10 18	4 14.81	+ 4 45.0	1.795	2.632	14.3	20.2	10 18	4 17.96	+14 35.4	1.663	2.503	15.1	21.5
10 28	4 8.74	+ 3 28.2	1.758	2.660	11.1	20.0	10 28	4 11.68	+14 23.2	1.596	2.508	11.3	21.3
11 7	4 0.73	+ 2 18.8	1.745	2.688	8.1	19.9	11 7	4 2.87	+14 10.0	1.552	2.514	7.0	21.1
11 17	3 51.64	+ 1 22.7	1.759	2.716	6.6	19.9	11 17	3 52.40	+13 57.8	1.535	2.519	2.9	20.8
11 27	3 42.50	+ 0 44.9	1.801	2.743	7.6	20.0	11 27	3 41.50	+13 49.3	1.546	2.523	4.0	20.9
12 7	3 34.34	+ 0 27.8	1.870	2.770	10.1	20.2	12 7	3 31.50	+13 47.5	1.586	2.527	8.3	21.2
12 17	3 27.93	+ 0 31.2	1.964	2.797	12.8	20.5	12 17	3 23.46	+13 54.5	1.651	2.531	12.4	21.4
12 27	3 23.76	+ 0 53.0	2.078	2.823	15.2	20.7	12 27	3 18.13	+14 11.8	1.739	2.535	15.8	21.7
<b>189890</b>	2003 <i>SY</i> <sub>25</sub>		11 21.3 132°75	3°6'/18.9	18		<b>420876</b>	2013 <i>KU</i> <sub>16</sub>		11 21.3 64°99	0°0'/21.2	18	
10 18	4 10.64	+ 9 56.7	2.467	3.301	11.0	20.1	10 18	4 12.36	+22 40.2	2.070	2.900	12.9	21.0
10 28	4 5.47	+ 9 11.4	2.401	3.308	8.3	20.0	10 28	4 7.01	+22 1.4	2.010	2.917	9.6	20.8
11 7	3 58.75	+ 8 27.5	2.361	3.315	5.5	19.8	11 7	3 59.77	+21 14.5	1.974	2.935	5.8	20.6
11 17	3 51.07	+ 7 48.1	2.348	3.321	3.6	19.7	11 17	3 51.40	+20 21.5	1.967	2.953	1.8	20.3
11 27	3 43.18	+ 7 16.6	2.366	3.328	4.5	19.8	11 27	3 42.87	+19 26.2	1.988	2.970	2.3	20.4
12 7	3 35.86	+ 6 55.5	2.413	3.334	7.1	20.0	12 7	3 35.15	+18 33.2	2.039	2.988	6.2	20.7
12 17	3 29.74	+ 6 46.5	2.487	3.340	9.8	20.1	12 17	3 29.01	+17 46.6	2.118	3.005	9.7	21.0
12 27	3 25.35	+ 6 49.8	2.585	3.346	12.2	20.3	12 27	3 25.00	+17 9.9	2.221	3.023	12.6	21.2
<b>447978</b>	2008 <i>CW</i> <sub>126</sub>		11 21.3 301°58	1°5'/22.1	18		<b>313634</b>	2003 <i>SB</i> <sub>14</sub>		11 21.3 100°11	4°6'/24.2	18	
10 18	4 13.98	+25 22.4	1.935	2.761	13.8	21.7	10 18	4 17.05	+35 21.2	2.494	3.270	12.6	20.5
10 28	4 8.62	+25 16.4	1.857	2.760	10.5	21.5	10 28	4 10.52	+35 48.1	2.428	3.289	10.1	20.4
11 7	4 0.98	+25 0.5	1.802	2.759	6.7	21.3	11 7	4 1.94	+36 1.5	2.385	3.307	7.4	20.2
11 17	3 51.80	+24 34.5	1.774	2.757	2.7	21.0	11 17	3 52.08	+35 59.4	2.370	3.325	5.2	20.1
11 27	3 42.19	+24 0.6	1.775	2.756	2.7	21.0	11 27	3 41.94	+35 41.9	2.383	3.343	4.7	20.1
12 7	3 33.32	+23 22.7	1.804	2.755	6.6	21.3	12 7	3 32.55	+35 11.5	2.426	3.361	6.3	20.2
12 17	3 26.17	+22 45.4	1.860	2.754	10.5	21.5	12 17	3 24.78	+34 32.7	2.498	3.378	8.7	20.4
12 27	3 21.46	+22 13.5	1.941	2.753	13.8	21.7	12 27	3 19.25	+33 50.9	2.594	3.394	11.1	20.6
<b>220027</b>	2002 <i>QJ</i> <sub>57</sub>		11 21.3 139°02	1°2'/21.9	16		<b>303545</b>	2005 <i>EQ</i> <sub>324</sub>		11 21.3 195°91	3°6'/19.0	18	
10 18	4 19.85	+24 29.7	1.844	2.664	14.7	21.6	10 18	4 12.64	+12 33.3	2.107	2.945	12.4	20.8
10 28	4 12.88	+24 19.3	1.778	2.678	11.1	21.4	10 28	4 7.26	+11 29.9	2.033	2.943	9.3	20.6
11 7	4 3.48	+23 58.7	1.735	2.691	6.9	21.2	11 7	3 59.99	+10 24.8	1.983	2.941	6.0	20.4
11 17	3 52.53	+23 28.3	1.719	2.703	2.5	20.9	11 17	3 51.50	+ 9 22.0	1.962	2.939	3.7	20.3
11 27	3 41.28	+22 50.6	1.733	2.714	2.6	20.9	11 27	3 42.70	+ 8 26.6	1.970	2.936	4.8	20.3
12 7	3 31.01	+22 10.0	1.776	2.725	6.9	21.2	12 7	3 34.54	+ 7 42.8	2.008	2.933	8.0	20.5
12 17	3 22.73	+21 31.5	1.847	2.735	10.8	21.5	12 17	3 27.84	+ 7 13.5	2.072	2.930	11.2	20.7
12 27	3 17.11	+20 59.9	1.941	2.743	14.2	21.7	12 27	3 23.18	+ 6 59.8	2.159	2.926	14.0	20.9
<b>342575</b>	2008 <i>UC</i> <sub>264</sub>		11 21.3 13°28	2°2'/22.1	18		<b>229804</b>	2008 <i>SO</i> <sub>60</sub>		11 21.3 349°17	1°5'/22.1	17	
10 18	4 17.69	+24 53.9	1.547	2.381	16.3	20.3	10 18	4 10.55	+25 34.9	1.884	2.717	13.9	19.2
10 28	4 11.96	+25 15.8	1.475	2.381	12.5	20.1	10 28	4 6.18	+25 24.5	1.805	2.711	10.6	19.0
11 7	4 3.28	+25 28.0	1.424	2.381	8.0	19.8	11 7	3 59.55	+25 3.5	1.748	2.706	6.7	18.8
11 17	3 52.55	+25 28.8	1.399	2.382	3.5	19.5	11 17	3 51.41	+24 32.4	1.718	2.702	2.7	18.5
11 27	3 41.20	+25 18.9	1.401	2.382	3.4	19.5	11 27	3 42.82	+23 53.4	1.716	2.698	2.6	18.5
12 7	3 30.76	+25 1.6	1.431	2.383	7.9	19.8	12 7	3 34.94	+23 10.8	1.742	2.695	6.6	18.8
12 17	3 22.55	+24 41.9	1.486	2.383	12.3	20.1	12 17	3 28.73	+22 29.5	1.795	2.692	10.5	19.0
12 27	3 17.44	+24 25.6	1.563	2.384	16.1	20.3	12 27	3 24.90	+21 54.3	1.870	2.690	13.9	19.2
<b>108920</b>	2001 <i>PU</i> <sub>15</sub>		11 21.3 55°54	0°4'/21.2	18		<b>27126</b>						

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>421907</b>	2014 <i>QM</i> <sub>217</sub>		11 21.3 185°52	4°1/23.9	18		<b>84007</b>	2002 <i>OK</i> <sub>12</sub>		11 21.3 31°40	1°5/20.9	18	
10 18	4 15.04	+33 48.8	2.273	3.064	13.2	21.5	10 18	4 15.51	+17 22.1	0.991	1.865	20.3	18.4
10 28	4 9.28	+33 57.7	2.191	3.064	10.5	21.3	10 28	4 10.87	+17 19.6	0.952	1.881	15.1	18.2
11 7	4 1.34	+33 52.5	2.132	3.064	7.5	21.1	11 7	4 2.74	+17 13.1	0.931	1.899	9.1	17.9
11 17	3 51.94	+33 31.5	2.099	3.064	4.9	21.0	11 17	3 52.41	+17 4.4	0.932	1.918	2.9	17.7
11 27	3 42.15	+32 55.5	2.095	3.063	4.3	20.9	11 27	3 41.77	+16 57.3	0.957	1.938	4.2	17.8
12 7	3 33.06	+32 7.7	2.121	3.063	6.5	21.1	12 7	3 32.70	+16 55.8	1.005	1.960	10.0	18.2
12 17	3 25.62	+31 13.4	2.174	3.062	9.4	21.2	12 17	3 26.53	+17 3.2	1.076	1.982	15.1	18.6
12 27	3 20.51	+30 18.5	2.252	3.061	12.2	21.4	12 27	3 23.99	+17 21.4	1.166	2.005	19.3	18.9
<b>523647</b>	2010 <i>VV</i> <sub>224</sub>		11 21.3 343°71	0°2/20.0	18		<b>341037</b>	2007 <i>GU</i> <sub>39</sub>		11 21.3 198°70	0°1/21.3	18	
10 18	3 50.62	+14 3.8	36.764	37.592	0.9	21.8	10 18	4 17.17	+21 1.2	1.997	2.823	13.5	21.6
10 28	3 49.86	+13 59.4	36.683	37.590	0.6	21.8	10 28	4 10.93	+20 54.3	1.916	2.821	10.1	21.4
11 7	3 49.02	+13 55.0	36.629	37.589	0.4	21.8	11 7	4 2.39	+20 41.1	1.858	2.817	6.2	21.2
11 17	3 48.13	+13 50.6	36.605	37.587	0.2	21.7	11 17	3 52.31	+20 22.0	1.827	2.813	1.9	20.9
11 27	3 47.23	+13 46.6	36.612	37.586	0.2	21.8	11 27	3 41.75	+19 59.0	1.827	2.809	2.5	20.9
12 7	3 46.34	+13 42.9	36.649	37.584	0.5	21.8	12 7	3 31.88	+19 35.5	1.856	2.804	6.8	21.2
12 17	3 45.52	+13 39.6	36.715	37.583	0.7	21.8	12 17	3 23.69	+19 15.1	1.913	2.798	10.7	21.4
12 27	3 44.78	+13 37.0	36.809	37.581	0.9	21.9	12 27	3 17.91	+19 1.3	1.993	2.792	14.0	21.6
<b>426103</b>	2012 <i>FC</i> <sub>23</sub>		11 21.3 195°17	4°2/20.1	18		<b>276175</b>	2002 <i>PF</i> <sub>106</sub>		11 21.3 69°56	0°8/21.9	18	
10 18	4 23.32	+7 0.8	1.964	2.781	14.0	20.8	10 18	4 11.68	+24 49.7	2.258	3.081	12.2	20.5
10 28	4 15.43	+7 9.3	1.882	2.779	10.7	20.6	10 28	4 6.52	+24 22.3	2.187	3.089	9.2	20.4
11 7	4 5.12	+7 24.4	1.826	2.775	7.2	20.4	11 7	3 59.53	+23 45.8	2.140	3.097	5.7	20.2
11 17	3 53.14	+7 47.8	1.798	2.771	4.4	20.2	11 17	3 51.40	+23 1.3	2.120	3.105	2.1	19.9
11 27	3 40.61	+8 20.9	1.801	2.766	5.2	20.2	11 27	3 43.03	+22 11.8	2.131	3.113	2.1	20.0
12 7	3 28.76	+9 4.1	1.834	2.760	8.6	20.4	12 7	3 35.34	+21 21.3	2.171	3.121	5.8	20.2
12 17	3 18.66	+9 56.7	1.896	2.753	12.2	20.6	12 17	3 29.11	+20 34.1	2.239	3.129	9.1	20.4
12 27	3 11.08	+10 57.7	1.982	2.745	15.3	20.8	12 27	3 24.90	+19 53.8	2.332	3.137	12.0	20.6
<b>73306</b>	2002 <i>JD</i> <sub>74</sub>		11 21.3 86°29	3°0/19.4	18		<b>406887</b>	2009 <i>DP</i> <sub>13</sub>		11 21.3 248°25	1°4/20.5	14 C	
10 18	4 11.60	+12 10.6	2.345	3.179	11.4	19.6	10 18	4 14.17	+17 40.0	2.286	3.114	11.9	22.8
10 28	4 6.17	+11 24.2	2.291	3.200	8.5	19.4	10 28	4 8.52	+17 6.0	2.188	3.095	8.9	22.6
11 7	3 59.17	+10 38.0	2.263	3.220	5.4	19.3	11 7	4 0.88	+16 26.9	2.115	3.075	5.5	22.3
11 17	3 51.24	+9 55.3	2.264	3.241	3.2	19.1	11 17	3 51.86	+15 44.8	2.070	3.055	2.0	22.0
11 27	3 43.19	+9 19.4	2.294	3.261	4.1	19.2	11 27	3 42.35	+15 2.9	2.056	3.034	3.0	22.1
12 7	3 35.82	+8 53.1	2.354	3.281	6.9	19.5	12 7	3 33.31	+14 24.7	2.072	3.012	6.7	22.3
12 17	3 29.77	+8 38.2	2.441	3.301	9.7	19.7	12 17	3 25.62	+13 54.0	2.115	2.990	10.3	22.5
12 27	3 25.53	+8 35.2	2.551	3.320	12.1	19.9	12 27	3 19.96	+13 33.6	2.183	2.967	13.4	22.6
<b>414300</b>	2008 <i>RQ</i> <sub>13</sub>		11 21.3 151°69	4°5/17.9	18		<b>129023</b>	2004 <i>TB</i> <sub>336</sub>		11 21.3 187°61	0°0/21.3	18	
10 18	4 9.81	+6 37.2	2.684	3.513	10.3	21.5	10 18	4 12.30	+21 15.9	2.407	3.232	11.5	21.1
10 28	4 4.76	+5 34.4	2.618	3.519	7.9	21.4	10 28	4 6.94	+21 2.2	2.327	3.232	8.6	20.9
11 7	3 58.31	+4 34.4	2.579	3.524	5.7	21.2	11 7	3 59.80	+20 42.9	2.272	3.232	5.2	20.7
11 17	3 51.00	+3 41.1	2.569	3.529	4.5	21.2	11 17	3 51.50	+20 18.7	2.245	3.231	1.6	20.4
11 27	3 43.50	+2 58.1	2.588	3.534	5.3	21.2	11 27	3 42.88	+19 51.7	2.248	3.230	2.1	20.5
12 7	3 36.50	+2 28.1	2.637	3.539	7.4	21.4	12 7	3 34.82	+19 24.9	2.282	3.229	5.7	20.7
12 17	3 30.60	+2 12.3	2.712	3.543	9.8	21.6	12 17	3 28.09	+19 1.1	2.343	3.228	9.0	20.9
12 27	3 26.26	+2 10.9	2.811	3.547	11.9	21.7	12 27	3 23.26	+18 43.4	2.429	3.226	11.8	21.1
<b>113906</b>	2002 <i>TJ</i> <sub>278</sub>		11 21.3 176°56	1°7/20.1	18		<b>476744</b>	2008 <i>UN</i> <sub>54</sub>		11 21.3 79°91	0°3/21.4	18	
10 18	4 13.28	+19 14.2	2.000	2.836	13.1	19.3	10 18	4 17.34	+21 13.4	1.633	2.470	15.5	20.4
10 28	4 7.85	+18 3.3	1.925	2.836	9.7	19.1	10 28	4 11.25	+21 11.1	1.575	2.485	11.5	20.2
11 7	4 0.39	+16 44.4	1.875	2.837	5.9	18.9	11 7	4 2.61	+21 1.6	1.539	2.501	7.0	19.9
11 17	3 51.65	+15 21.4	1.853	2.838	2.2	18.7	11 17	3 52.37	+20 45.7	1.530	2.516	2.2	19.7
11 27	3 42.64	+13 59.9	1.861	2.838	3.4	18.7	11 27	3 41.82	+20 25.7	1.549	2.531	2.7	19.8
12 7	3 34.38	+12 45.9	1.898	2.838	7.3	19.0	12 7	3 32.30	+20 5.4	1.596	2.547	7.4	20.1
12 17	3 27.71	+11 44.2	1.963	2.838	11.0	19.2	12 17	3 24.84	+19 48.8	1.670	2.562	11.5	20.4
12 27	3 23.25	+10 58.1	2.052	2.837	14.1	19.4	12 27	3 20.15	+19 39.4	1.766	2.577	15.0	20.6
<b>441941</b>	2010 <i>JV</i> <sub>149</sub>		11 21.3 56°11	1°4/20.5	15		<b>29795</b>	1999 <i>CL</i> <sub>71</sub>		11 21.3 219°80	1°3/22.1	18	
10 18	4 14.53	+20 59.9	1.570	2.415	15.6	20.6	10 18	4 14.33	+25 14.1	2.175	2.994	12.8	18.6
10 28	4 8.97	+19 45.5	1.522	2.438	11.5	20.5	10 28	4 8.72	+25 3.8	2.090	2.989	9.7	18.4
11 7	4 1.06	+18 22.0	1.497	2.461	6.9	20.2	11 7	4 1.01	+24 44.1	2.029	2.984	6.1	18.2
11 17	3 51.82	+16 54.3	1.499	2.485	2.2	20.0	11 17	3 51.90	+24 15.2	1.995	2.978	2.4	17.9
11 27	3 42.52	+15 29.2	1.529	2.509	3.5	20.2	11 27	3 42.37	+23 39.2	1.991	2.972	2.4	17.9
12 7	3 34.36	+14 13.8	1.588	2.533	8.0	20.5	12 7	3 33.47	+22 59.5	2.017	2.966	6.1	18.2
12 17	3 28.25	+13 13.5	1.672	2.557	12.0	20.8	12 17	3 26.11	+22 20.4	2.070	2.960	9.7	18.4
12 27	3 24.73	+12 30.9	1.779	2.581	15.3	21.1	12 27	3 20.97	+21 46.5	2.148	2.953	12.9	18.6
<b>515580</b>	2014 <i>HU</i> <sub>190</sub>		11 21.3 190°13	4°8/18.2	18		<b>270979</b>	2002 <i>VP</i> <sub>146</sub>		11 21.3 71°45	2°4/20.4	18	
10 18	4 13.01	+6 14.6	2.469	3.295	11.2	22.6	10 18	4 19.41	+15 58.8	1.362	2.210	17.3	20.4
10 28	4 7.28	+5 18.9	2.395	3.294	8.7	22.5	10 28	4 12.84	+15 31.8	1.320	2.237	12.8	20.2
11 7	3 59.91	+4 26.4	2.347	3.292	6.2	22.3	11 7	4 3.53	+15 2.1	1.300	2.263	7.8	20.0
11 17	3 51.50	+3 40.9	2.328	3.289	4.8	22.2	11 17	3 52.62	+14 32.8	1.305	2.290	3.0	19.8
11 27	3 42.82	+3 6.4	2.339	3.286	5.7	22.3	11 27	3 41.60	+14 8.0	1.338	2.316	4.3	19.9
12 7	3 34.67	+2 45.6	2.378	3.282	8.1	22.4	12 7	3 31.93	+13 51.8	1.397	2.341	8.9	20.3
12 17	3 27.75	+2 39.7	2.445	3.277	10.6	22.6	12 17	3 24.67	+13 46.9	1.481	2.367	13.2	20.6
12 27	3 22.60	+2 48.6	2.534	3.272	13.0	22.8	12 27	3 20.42	+13 54.6	1.587	2.392	16.7	20.9
<b>327684</b>	2006 <i>RE</i> <sub>53</sub>		11 21.3 127°56	2°3/22.2	17		<b>255935</b>	2006 <i>SZ</i> <sub>412</sub>					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>393314</b>	2014 <i>AN</i> <sub>8</sub>		11 21.3 327°47	1°1/22.1	15		<b>449513</b>	2014 <i>GM</i> <sub>45</sub>		11 21.3 174°83	1°2/20.6	18	
10 18	4 8.82	+24 44.6	2.681	3.501	10.6	21.6	10 18	4 14.60	+17 41.0	2.505	3.328	11.2	22.5
10 28	4 4.33	+24 39.8	2.591	3.492	8.0	21.4	10 28	4 8.50	+17 11.3	2.426	3.331	8.3	22.3
11 7	3 58.23	+24 28.1	2.526	3.482	5.1	21.2	11 7	4 0.69	+16 37.6	2.374	3.334	5.0	22.1
11 17	3 51.05	+24 9.6	2.489	3.473	2.0	21.0	11 17	3 51.80	+16 1.9	2.351	3.336	1.8	21.9
11 27	3 43.52	+23 45.9	2.482	3.463	2.0	21.0	11 27	3 42.64	+15 26.8	2.359	3.337	2.6	22.0
12 7	3 36.44	+23 19.3	2.505	3.455	5.1	21.2	12 7	3 34.05	+14 55.3	2.398	3.338	6.0	22.2
12 17	3 30.49	+22 52.8	2.555	3.446	8.1	21.4	12 17	3 26.78	+14 30.3	2.465	3.337	9.1	22.4
12 27	3 26.24	+22 29.4	2.632	3.438	10.7	21.6	12 27	3 21.36	+14 13.9	2.557	3.337	11.8	22.6
<b>157</b>	Dejanira		11 21.3 325°05	0°5/21.2	18 R		<b>381003</b>	2006 <i>TK</i> <sub>83</sub>		11 21.3 344°20	5°5/22.9	18	
10 18	4 16.25	+16 35.6	1.407	2.259	16.7	14.6	10 18	4 15.25	+29 28.5	1.138	1.987	20.0	20.8
10 28	4 11.34	+17 12.5	1.322	2.240	12.6	14.3	10 28	4 11.36	+30 19.3	1.068	1.978	15.8	20.5
11 7	4 3.25	+17 50.5	1.258	2.222	7.8	14.0	11 7	4 3.58	+30 55.0	1.017	1.970	11.1	20.2
11 17	3 52.75	+18 29.1	1.219	2.205	2.4	13.6	11 17	3 52.89	+31 10.2	0.987	1.963	6.6	19.9
11 27	3 41.21	+19 7.6	1.207	2.189	3.4	13.6	11 27	3 41.12	+31 2.9	0.981	1.957	6.1	19.9
12 7	3 30.28	+19 46.4	1.221	2.173	8.9	13.9	12 7	3 30.44	+30 37.0	0.999	1.952	10.2	20.1
12 17	3 21.51	+20 26.8	1.260	2.159	14.0	14.2	12 17	3 22.69	+30 0.4	1.038	1.948	15.1	20.4
12 27	3 15.99	+21 10.9	1.320	2.145	18.3	14.4	12 27	3 19.02	+29 23.2	1.097	1.946	19.6	20.6
<b>412306</b>	2013 <i>JB</i> <sub>51</sub>		11 21.3 126°45	1°3/20.6	18		<b>158276</b>	2001 <i>UA</i> <sub>12</sub>		11 21.3 342°20	2°0/20.6	18	
10 18	4 12.97	+16 36.3	2.324	3.154	11.7	21.9	10 18	4 10.58	+17 38.2	1.171	2.042	18.0	19.4
10 28	4 7.39	+16 21.0	2.254	3.162	8.6	21.8	10 28	4 7.28	+17 11.4	1.101	2.030	13.6	19.1
11 7	4 0.05	+16 3.2	2.209	3.170	5.3	21.6	11 7	4 0.77	+16 38.1	1.050	2.018	8.3	18.8
11 17	3 51.59	+15 44.5	2.192	3.177	1.9	21.3	11 17	3 51.96	+16 1.6	1.022	2.008	3.0	18.5
11 27	3 42.87	+15 27.1	2.206	3.184	2.8	21.4	11 27	3 42.38	+15 27.3	1.019	1.999	4.4	18.5
12 7	3 34.76	+15 13.6	2.249	3.191	6.2	21.7	12 7	3 33.74	+15 1.1	1.040	1.992	10.0	18.8
12 17	3 28.01	+15 6.0	2.320	3.198	9.4	21.9	12 17	3 27.48	+14 47.9	1.082	1.986	15.3	19.1
12 27	3 23.19	+15 6.1	2.416	3.204	12.1	22.1	12 27	3 24.59	+14 50.7	1.144	1.981	19.8	19.4
<b>358724</b>	2008 <i>CD</i> <sub>1</sub>		11 21.3 263°57	8°1/25.6	17		<b>220780</b>	2004 <i>TR</i> <sub>139</sub>		11 21.3 316°93	5°1/18.1	17	
10 18	4 20.13	+43 13.8	2.163	2.909	15.1	20.6	10 18	4 15.40	+21 29.5	0.975	1.847	20.7	19.5
10 28	4 13.86	+44 4.7	2.068	2.894	13.0	20.4	10 28	4 11.16	+18 28.2	0.909	1.839	15.5	19.2
11 7	4 4.59	+44 37.1	1.994	2.880	10.7	20.3	11 7	4 3.16	+14 57.3	0.863	1.832	9.6	18.8
11 17	3 53.11	+44 45.6	1.945	2.865	8.8	20.1	11 17	3 52.65	+11 11.9	0.842	1.825	5.1	18.6
11 27	3 40.77	+44 27.2	1.921	2.850	8.2	20.1	11 27	3 41.59	+7 35.1	0.848	1.818	8.3	18.7
12 7	3 29.14	+43 43.8	1.924	2.835	9.3	20.1	12 7	3 31.98	+4 29.8	0.878	1.812	14.3	19.0
12 17	3 19.58	+42 41.1	1.954	2.819	11.5	20.2	12 17	3 25.34	+2 10.3	0.930	1.806	19.9	19.3
12 27	3 13.10	+41 28.0	2.007	2.804	14.0	20.3	12 27	3 22.49	+0 40.0	0.999	1.801	24.5	19.6
<b>496759</b>	2016 <i>UY</i> <sub>117</sub>		11 21.3 308°51	1°3/21.8	16 R		<b>343939</b>	2011 <i>KC</i> <sub>19</sub>		11 21.3 100°09	2°8/20.2	18	
10 18	4 14.49	+23 43.6	1.448	2.294	16.6	21.9	10 18	4 16.98	+13 14.7	1.681	2.523	14.9	21.2
10 28	4 9.94	+23 43.0	1.363	2.277	12.7	21.6	10 28	4 10.87	+12 59.3	1.621	2.534	11.1	21.0
11 7	4 2.32	+23 31.8	1.298	2.260	8.1	21.3	11 7	4 2.36	+12 44.1	1.584	2.545	6.9	20.7
11 17	3 52.43	+23 9.6	1.258	2.243	3.0	21.0	11 17	3 52.33	+12 31.6	1.574	2.556	3.2	20.5
11 27	3 41.68	+22 38.4	1.244	2.227	3.2	20.9	11 27	3 41.98	+12 24.8	1.591	2.566	4.3	20.6
12 7	3 31.69	+22 3.1	1.257	2.211	8.5	21.2	12 7	3 32.53	+12 26.1	1.637	2.577	8.3	20.9
12 17	3 23.87	+21 29.5	1.294	2.196	13.4	21.4	12 17	3 25.01	+12 37.1	1.709	2.587	12.1	21.2
12 27	3 19.24	+21 3.8	1.352	2.181	17.8	21.7	12 27	3 20.08	+12 58.8	1.804	2.597	15.4	21.4
<b>222105</b>	1999 <i>TC</i> <sub>254</sub>		11 21.3 308°07	0°6/20.9	17		<b>27603</b>	2001 <i>FL</i> <sub>162</sub>		11 21.3 175°24	1°4/20.7	18	
10 18	4 11.31	+20 34.3	2.025	2.861	12.9	20.4	10 18	4 17.34	+18 19.0	1.828	2.661	14.2	19.7
10 28	4 6.55	+20 0.7	1.942	2.853	9.6	20.2	10 28	4 11.11	+17 47.7	1.754	2.664	10.6	19.5
11 7	3 59.73	+19 19.7	1.883	2.845	5.9	19.9	11 7	4 2.53	+17 10.8	1.704	2.666	6.4	19.3
11 17	3 51.54	+18 33.5	1.851	2.837	1.8	19.6	11 17	3 52.40	+16 30.4	1.682	2.667	2.2	19.0
11 27	3 42.94	+17 45.5	1.849	2.830	2.6	19.7	11 27	3 41.87	+15 50.3	1.689	2.668	3.3	19.1
12 7	3 34.96	+17 0.1	1.875	2.822	6.7	19.9	12 7	3 32.16	+15 15.0	1.725	2.668	7.6	19.4
12 17	3 28.50	+16 21.5	1.928	2.815	10.5	20.1	12 17	3 24.28	+14 48.2	1.787	2.668	11.6	19.6
12 27	3 24.22	+15 53.0	2.005	2.808	13.7	20.3	12 27	3 18.91	+14 33.0	1.873	2.666	14.9	19.8
<b>373436</b>	1999 <i>TR</i> <sub>158</sub>		11 21.3 67°00	3°2/19.9	16		<b>464269</b>	2015 <i>LC</i> <sub>32</sub>		11 21.3 308°62	6°9/25.2	18	
10 18	4 19.53	+16 17.1	1.246	2.100	18.3	20.8	10 18	4 18.57	+38 56.3	1.722	2.507	17.0	20.3
10 28	4 12.96	+15 13.2	1.211	2.131	13.4	20.6	10 28	4 12.76	+39 13.9	1.645	2.506	14.0	20.1
11 7	4 3.57	+14 5.7	1.197	2.162	8.2	20.4	11 7	4 3.85	+39 9.8	1.588	2.506	10.7	19.9
11 17	3 52.62	+13 0.2	1.209	2.192	3.6	20.3	11 17	3 52.85	+38 39.8	1.554	2.505	7.9	19.7
11 27	3 41.72	+12 3.6	1.247	2.223	5.1	20.4	11 27	3 41.29	+37 43.8	1.547	2.505	6.9	19.7
12 7	3 32.35	+11 21.7	1.312	2.253	9.7	20.8	12 7	3 30.80	+36 27.0	1.567	2.504	8.8	19.8
12 17	3 25.54	+10 57.7	1.400	2.283	14.0	21.1	12 17	3 22.72	+34 58.3	1.613	2.504	11.9	20.0
12 27	3 21.83	+10 52.0	1.510	2.312	17.5	21.4	12 27	3 17.89	+33 27.9	1.682	2.503	15.2	20.2
<b>341046</b>	2007 <i>GT</i> <sub>68</sub>		11 21.3 145°72	0°8/20.9	18		<b>516151</b>	2015 <i>XC</i> <sub>350</sub>		11 21.3 116°21	0°9/21.9	18	
10 18	4 16.79	+19 28.6	1.930	2.761	13.7	22.1	10 18	4 13.37	+24 59.0	2.264	3.083	12.3	21.2
10 28	4 10.53	+19 2.8	1.862	2.770	10.2	21.9	10 28	4 7.78	+24 35.7	2.192	3.092	9.3	21.0
11 7	4 2.08	+18 31.0	1.817	2.778	6.2	21.7	11 7	4 0.32	+24 3.2	2.145	3.101	5.8	20.8
11 17	3 52.23	+17 55.1	1.800	2.786	1.9	21.4	11 17	3 51.69	+23 22.7	2.126	3.110	2.1	20.5
11 27	3 42.08	+17 18.3	1.813	2.794	2.8	21.5	11 27	3 42.82	+22 36.6	2.137	3.119	2.2	20.6
12 7	3 32.75	+16 44.5	1.855	2.800	7.0	21.8	12 7	3 34.66	+21 48.9	2.178	3.127	5.8	20.8
12 17	3 25.17	+16 17.6	1.925	2.807	10.8	22.0	12 17	3 27.99	+21 3.8	2.247	3.136	9.1	21.1
12 27	3 19.98	+16 0.4	2.018	2.813	14.0	22.3	12 27	3 23.38	+20 25.2	2.341	3.144	12.0	21.3
<b>345821</b>	2007 <i>HC</i> <sub>27</sub>		11 21.3 158°20	2°4/19.8	18		<b>69551</b>	1997 <i>MY</i> <sub>2</sub>					

EPHEMERIDES

11 21.3

11 21.3

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>130394</b>	2000 <i>LL</i> <sub>14</sub>		11 21.3 66°30'	2°2'/20.6	17		<b>459881</b>	2014 <i>JT</i> <sub>30</sub>		11 21.3 105°89'	15°1'/21.2	16	
10 18	4 20.25	+17 15.2	1.159	2.015	19.2	19.0	10 18	4 30.45	-13 13.6	1.125	1.924	23.3	20.4
10 28	4 13.85	+16 42.6	1.120	2.041	14.1	18.8	10 28	4 21.80	-13 22.4	1.075	1.931	20.2	20.2
11 7	4 4.30	+16 5.3	1.101	2.067	8.5	18.6	11 7	4 9.41	-12 55.4	1.042	1.937	17.2	20.0
11 17	3 52.91	+15 27.0	1.107	2.092	3.1	18.3	11 17	3 54.58	-11 43.3	1.029	1.943	15.3	19.9
11 27	3 41.42	+14 52.9	1.139	2.118	4.4	18.5	11 27	3 39.30	-9 43.8	1.040	1.949	15.5	20.0
12 7	3 31.52	+14 28.3	1.196	2.144	9.6	18.9	12 7	3 25.64	-7 4.2	1.075	1.955	17.6	20.1
12 17	3 24.37	+14 16.7	1.277	2.169	14.3	19.2	12 17	3 15.11	-3 57.5	1.133	1.960	20.6	20.4
12 27	3 20.60	+14 19.7	1.378	2.194	18.1	19.5	12 27	3 8.58	-0 37.4	1.211	1.966	23.6	20.6
<b>289653</b>	2005 <i>GE</i> <sub>114</sub>		11 21.3 275°42'	6°5'/17.2	18		<b>68292</b>	2001 <i>FS</i> <sub>37</sub>		11 21.3 274°40'	2°8'/19.6	18	
10 18	4 12.12	+5 51.3	1.895	2.736	13.5	20.3	10 18	4 10.69	+13 45.5	2.211	3.050	11.9	19.6
10 28	4 7.25	+4 27.4	1.812	2.717	10.6	20.0	10 28	4 5.86	+12 58.3	2.133	3.045	8.9	19.4
11 7	4 0.24	+3 5.4	1.752	2.697	7.9	19.8	11 7	3 59.23	+12 9.1	2.080	3.040	5.6	19.2
11 17	3 51.75	+1 51.9	1.719	2.677	6.5	19.7	11 17	3 51.42	+11 21.1	2.054	3.034	3.0	19.0
11 27	3 42.74	+0 53.6	1.714	2.657	7.8	19.7	11 27	3 43.29	+10 38.3	2.058	3.029	4.0	19.0
12 7	3 34.27	+0 15.5	1.736	2.637	10.7	19.9	12 7	3 35.71	+10 4.4	2.091	3.024	7.2	19.2
12 17	3 27.30	-0 0.1	1.783	2.617	13.9	20.0	12 17	3 29.47	+9 42.1	2.151	3.018	10.5	19.4
12 27	3 22.56	+0 6.6	1.849	2.596	16.8	20.2	12 27	3 25.15	+9 32.6	2.234	3.013	13.3	19.6
<b>431288</b>	2006 <i>UQ</i> <sub>226</sub>		11 21.3 23°19'	0°9'/21.1	18		<b>393534</b>	2002 <i>TA</i> <sub>342</sub>		11 21.3 151°49'	2°4'/22.4	18	
10 18	4 15.33	+18 7.3	1.050	1.920	19.7	20.5	10 18	4 18.64	+26 10.2	2.156	2.966	13.2	21.7
10 28	4 10.87	+18 13.3	1.000	1.928	14.7	20.2	10 28	4 11.99	+26 40.0	2.080	2.972	10.1	21.5
11 7	4 2.90	+18 14.7	0.969	1.936	9.0	20.0	11 7	4 3.07	+27 1.6	2.028	2.978	6.6	21.3
11 17	3 52.60	+18 12.6	0.960	1.946	2.8	19.6	11 17	3 52.63	+27 13.2	2.004	2.983	3.2	21.1
11 27	3 41.77	+18 9.8	0.975	1.957	3.9	19.8	11 27	3 41.72	+27 14.9	2.010	2.988	3.0	21.1
12 7	3 32.30	+18 10.0	1.014	1.970	9.8	20.1	12 7	3 31.50	+27 8.6	2.046	2.993	6.3	21.3
12 17	3 25.64	+18 17.1	1.076	1.983	15.0	20.5	12 17	3 22.96	+26 57.8	2.110	2.997	9.7	21.5
12 27	3 22.63	+18 33.7	1.157	1.997	19.4	20.8	12 27	3 16.81	+26 46.7	2.199	3.001	12.7	21.7
<b>91579</b>	1999 <i>SQ</i> <sub>15</sub>		11 21.3 339°79'	1°2'/22.1	18		<b>355388</b>	2007 <i>TU</i> <sub>437</sub>		11 21.3 29°54'	2°6'/22.5	16	
10 18	4 12.19	+25 56.1	2.003	2.829	13.4	18.8	10 18	4 14.47	+27 8.8	1.407	2.248	17.3	20.9
10 28	4 7.26	+25 28.1	1.923	2.826	10.2	18.6	10 28	4 9.66	+27 7.2	1.348	2.257	13.2	20.7
11 7	4 0.19	+24 48.8	1.867	2.824	6.5	18.4	11 7	4 1.92	+26 51.3	1.311	2.267	8.6	20.5
11 17	3 51.71	+23 59.1	1.838	2.822	2.5	18.1	11 17	3 52.28	+26 20.7	1.297	2.279	3.9	20.2
11 27	3 42.87	+23 2.1	1.838	2.820	2.4	18.1	11 27	3 42.24	+25 38.5	1.309	2.290	3.5	20.2
12 7	3 34.75	+22 2.7	1.867	2.818	6.4	18.4	12 7	3 33.35	+24 50.3	1.348	2.303	7.9	20.5
12 17	3 28.26	+21 6.3	1.923	2.816	10.2	18.6	12 17	3 26.79	+24 3.0	1.412	2.316	12.4	20.8
12 27	3 24.06	+20 17.8	2.003	2.815	13.4	18.8	12 27	3 23.32	+23 23.1	1.497	2.329	16.1	21.1
<b>104917</b>	2000 <i>JR</i> <sub>17</sub>		11 21.3 225°28'	3°4'/19.8	18		<b>482786</b>	2013 <i>KX</i> <sub>7</sub>		11 21.3 262°21'	0°7'/21.8	17	
10 18	4 15.76	+13 3.9	1.730	2.572	14.5	19.8	10 18	4 13.47	+24 15.3	2.148	2.972	12.7	21.7
10 28	4 10.11	+12 27.6	1.653	2.566	10.9	19.5	10 28	4 8.19	+23 51.5	2.054	2.957	9.7	21.5
11 7	4 2.04	+11 50.2	1.600	2.560	6.9	19.3	11 7	4 0.80	+23 18.1	1.985	2.942	6.1	21.2
11 17	3 52.31	+11 15.1	1.573	2.554	3.6	19.1	11 17	3 51.95	+22 35.8	1.943	2.928	2.1	20.9
11 27	3 42.08	+10 46.7	1.575	2.547	4.8	19.1	11 27	3 42.61	+21 47.2	1.930	2.912	2.3	20.9
12 7	3 32.58	+10 28.7	1.604	2.540	8.8	19.3	12 7	3 33.85	+20 56.4	1.947	2.897	6.3	21.1
12 17	3 24.88	+10 23.8	1.659	2.532	12.7	19.6	12 17	3 26.59	+20 8.3	1.992	2.882	10.1	21.3
12 27	3 19.73	+10 33.2	1.736	2.524	16.1	19.8	12 27	3 21.54	+19 27.3	2.062	2.866	13.4	21.5
<b>8852</b>	Buxus		11 21.3 28°14'	2°3'/22.0	18		<b>270721</b>	2002 <i>QZ</i> <sub>113</sub>		11 21.3 128°40'	1°8'/22.6	18	
10 18	4 16.66	+23 50.9	1.047	1.909	20.3	16.4	10 18	4 12.33	+27 38.1	2.448	3.259	11.8	20.9
10 28	4 12.01	+24 19.2	0.998	1.919	15.4	16.2	10 28	4 7.01	+27 22.6	2.369	3.262	9.0	20.7
11 7	4 3.67	+24 36.1	0.968	1.931	9.8	15.9	11 7	3 59.90	+26 57.0	2.315	3.266	5.8	20.6
11 17	3 52.85	+24 39.6	0.960	1.944	4.0	15.6	11 17	3 51.63	+26 21.7	2.289	3.269	2.7	20.4
11 27	3 41.50	+24 31.1	0.976	1.958	3.9	15.7	11 27	3 43.10	+25 38.6	2.293	3.273	2.4	20.3
12 7	3 31.63	+24 15.5	1.016	1.973	9.4	16.0	12 7	3 35.18	+24 51.2	2.327	3.276	5.4	20.6
12 17	3 24.75	+23 59.2	1.079	1.989	14.6	16.4	12 17	3 28.65	+24 3.7	2.389	3.280	8.6	20.8
12 27	3 21.70	+23 48.4	1.160	2.006	18.9	16.7	12 27	3 24.08	+23 20.3	2.477	3.283	11.3	21.0
<b>452986</b>	2007 <i>FH</i> <sub>50</sub>		11 21.3 236°43'	0°2'/21.3	18		<b>5243</b>	Clasien		11 21.3 155°09'	2°3'/19.9	18	
10 18	4 14.89	+18 50.7	2.516	3.337	11.2	21.8	10 18	4 13.14	+14 47.2	2.389	3.219	11.4	18.3
10 28	4 8.93	+19 3.5	2.424	3.327	8.4	21.6	10 28	4 7.46	+14 5.7	2.318	3.226	8.5	18.2
11 7	4 1.12	+19 13.5	2.357	3.316	5.1	21.4	11 7	4 0.10	+13 22.0	2.273	3.232	5.3	18.0
11 17	3 52.02	+19 20.9	2.320	3.305	1.6	21.1	11 17	3 51.69	+12 38.9	2.256	3.238	2.5	17.8
11 27	3 42.46	+19 26.4	2.313	3.294	2.1	21.2	11 27	3 43.04	+11 59.7	2.270	3.244	3.5	17.9
12 7	3 33.33	+19 31.5	2.336	3.282	5.7	21.4	12 7	3 35.01	+11 27.6	2.315	3.249	6.6	18.1
12 17	3 25.44	+19 38.1	2.389	3.271	9.0	21.6	12 17	3 28.29	+11 5.0	2.387	3.253	9.6	18.3
12 27	3 19.44	+19 48.1	2.467	3.258	11.8	21.7	12 27	3 23.44	+10 53.5	2.483	3.257	12.2	18.5
<b>426081</b>	2012 <i>DA</i> <sub>28</sub>		11 21.3 181°85'	3°4'/20.0	16		<b>239077</b>	2006 <i>GP</i> <sub>31</sub>		11 21.3 105°44'	0°7'/21.7	18	
10 18	4 17.66	+13 57.0	1.442	2.291	16.5	21.8	10 18	4 17.47	+22 33.3	1.930	2.755	13.9	21.1
10 28	4 11.87	+13 20.8	1.374	2.291	12.4	21.5	10 28	4 11.07	+22 31.8	1.868	2.772	10.4	20.9
11 7	4 3.24	+12 42.7	1.329	2.291	7.8	21.3	11 7	4 2.44	+22 22.8	1.830	2.788	6.4	20.7
11 17	3 52.70	+12 6.5	1.309	2.291	3.8	21.0	11 17	3 52.42	+22 6.7	1.819	2.804	2.2	20.5
11 27	3 41.64	+11 37.2	1.316	2.291	5.1	21.1	11 27	3 42.13	+21 45.5	1.838	2.820	2.4	20.5
12 7	3 31.55	+11 19.3	1.351	2.290	9.6	21.4	12 7	3 32.72	+21 22.5	1.886	2.836	6.5	20.8
12 17	3 23.65	+11 15.6	1.409	2.289	14.1	21.6	12 17	3 25.12	+21 1.5	1.962	2.851	10.3	21.1
12 27	3 18.75	+11 27.3	1.488	2.288	17.8	21.9	12 27	3 19.97	+20 46.1	2.062	2.865	13.4	21.3
<b>379549</b>	2011 <i>AT</i> <sub>21</sub>		11 21.3 328°30'	2°0'/20.7	18		<b>396081</b>	2013 <i>CC</i> <sub>86</sub>		11 21.3 154°59'			

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11 21.3

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>308974</b>	2006 <i>TQ</i> <sub>99</sub>		11 21.3 92°80	0°5/21.6	18		<b>213344</b>	2001 <i>ST</i> <sub>302</sub>		11 21.4 114°40	1°3/22.1	18	
10 18	4 15.58	+21 51.6	1.932	2.761	13.7	21.3	10 18	4 15.08	+25 1.4	2.017	2.839	13.5	21.4
10 28	4 9.76	+21 53.2	1.864	2.771	10.3	21.1	10 28	4 9.36	+24 54.0	1.945	2.846	10.2	21.2
11 7	4 1.70	+21 48.2	1.820	2.780	6.3	20.9	11 7	4 1.47	+24 37.2	1.897	2.853	6.4	21.0
11 17	3 52.21	+21 36.9	1.804	2.789	2.1	20.7	11 17	3 52.18	+24 11.2	1.877	2.860	2.5	20.7
11 27	3 42.37	+21 21.1	1.816	2.798	2.4	20.7	11 27	3 42.55	+23 38.1	1.885	2.867	2.5	20.7
12 7	3 33.32	+21 3.8	1.857	2.807	6.6	21.0	12 7	3 33.68	+23 1.8	1.923	2.873	6.3	21.0
12 17	3 25.99	+20 48.4	1.926	2.816	10.3	21.2	12 17	3 26.51	+22 26.5	1.988	2.880	10.0	21.2
12 27	3 21.07	+20 38.3	2.018	2.825	13.5	21.5	12 27	3 21.69	+21 56.6	2.078	2.886	13.1	21.5
<b>74691</b>	1999 <i>RV</i> <sub>132</sub>		11 21.3 83°91	2°3/20.3	18		<b>299139</b>	2005 <i>EW</i> <sub>241</sub>		11 21.4 277°00	6°6/18.5	18	
10 18	4 17.67	+17 38.5	1.386	2.235	17.0	19.1	10 18	4 13.88	+4 3.4	1.784	2.622	14.3	20.3
10 28	4 11.70	+16 46.6	1.334	2.252	12.6	18.8	10 28	4 8.62	+3 19.0	1.712	2.614	11.3	20.1
11 7	4 2.99	+15 48.6	1.305	2.269	7.6	18.6	11 7	4 1.12	+2 41.7	1.662	2.606	8.3	19.9
11 17	3 52.59	+14 49.1	1.301	2.285	3.0	18.4	11 17	3 52.10	+2 16.4	1.638	2.598	6.6	19.7
11 27	3 41.98	+13 53.9	1.324	2.302	4.3	18.5	11 27	3 42.61	+2 7.9	1.642	2.590	7.6	19.8
12 7	3 32.59	+13 9.2	1.374	2.318	9.1	18.8	12 7	3 33.78	+2 18.5	1.672	2.582	10.4	19.9
12 17	3 25.53	+12 39.2	1.449	2.334	13.4	19.1	12 17	3 26.60	+2 48.3	1.726	2.574	13.6	20.1
12 27	3 21.44	+12 25.8	1.545	2.350	17.0	19.4	12 27	3 21.78	+3 35.6	1.802	2.566	16.6	20.3
<b>403101</b>	2008 <i>CK</i> <sub>138</sub>		11 21.3 221°47	3°8/19.1	18		<b>201253</b>	2002 <i>RV</i> <sub>119</sub>		11 21.4 43°93	0°8/20.9	18	
10 18	4 12.53	+9 34.8	2.361	3.192	11.5	22.0	10 18	4 12.66	+17 50.6	2.046	2.883	12.8	19.7
10 28	4 7.13	+8 54.8	2.280	3.185	8.7	21.8	10 28	4 7.42	+17 47.0	1.983	2.894	9.5	19.5
11 7	3 59.99	+8 16.2	2.224	3.177	5.8	21.6	11 7	4 0.22	+17 40.3	1.944	2.906	5.7	19.3
11 17	3 51.70	+7 42.1	2.196	3.168	3.9	21.5	11 17	3 51.78	+17 31.6	1.932	2.918	1.8	19.1
11 27	3 43.05	+7 15.9	2.198	3.160	4.8	21.5	11 27	3 43.06	+17 23.0	1.949	2.930	2.6	19.2
12 7	3 34.90	+7 0.5	2.229	3.150	7.5	21.7	12 7	3 35.04	+17 16.7	1.995	2.942	6.4	19.4
12 17	3 28.02	+6 57.4	2.287	3.141	10.5	21.8	12 17	3 28.56	+17 15.2	2.068	2.955	9.9	19.7
12 27	3 22.97	+7 7.2	2.369	3.131	13.1	22.0	12 27	3 24.20	+17 20.2	2.165	2.968	12.9	19.9
<b>257927</b>	2000 <i>WV</i> <sub>76</sub>		11 21.3 342°76	1°8/21.9	17		<b>227311</b>	2005 <i>TC</i> <sub>31</sub>		11 21.4 334°17	1°0/21.7	18	
10 18	4 16.71	+23 35.0	1.785	2.616	14.6	19.8	10 18	4 14.44	+22 3.0	1.260	2.116	18.0	20.3
10 28	4 11.07	+23 21.8	1.705	2.610	11.1	19.5	10 28	4 10.22	+22 14.3	1.185	2.105	13.7	20.0
11 7	4 2.80	+24 4.0	1.648	2.605	7.1	19.3	11 7	4 2.67	+22 17.3	1.131	2.095	8.6	19.7
11 17	3 52.64	+24 39.3	1.618	2.601	2.9	19.0	11 17	3 52.69	+22 11.3	1.100	2.086	3.0	19.3
11 27	3 41.78	+25 6.6	1.616	2.596	3.0	19.0	11 27	3 41.83	+21 57.9	1.094	2.077	3.3	19.3
12 7	3 31.55	+25 26.8	1.642	2.593	7.2	19.3	12 7	3 31.88	+21 41.4	1.114	2.069	9.0	19.6
12 17	3 23.17	+25 42.4	1.696	2.590	11.3	19.5	12 17	3 24.38	+21 27.0	1.157	2.063	14.3	19.9
12 27	3 17.51	+25 57.2	1.772	2.587	14.8	19.7	12 27	3 20.35	+21 20.1	1.219	2.057	18.7	20.2
<b>154876</b>	2004 <i>RV</i> <sub>117</sub>		11 21.3 260°64	0°2/21.2	18		<b>445647</b>	2011 <i>UH</i> <sub>30</sub>		11 21.4 30°12	2°7/19.8	17	
10 18	4 12.61	+20 40.1	2.130	2.961	12.5	21.0	10 18	4 11.63	+18 45.1	1.392	2.250	16.4	20.7
10 28	4 7.44	+20 22.0	2.050	2.959	9.4	20.8	10 28	4 7.23	+17 16.0	1.340	2.263	12.1	20.4
11 7	4 0.28	+19 57.8	1.995	2.956	5.7	20.6	11 7	4 0.29	+15 38.3	1.310	2.276	7.4	20.2
11 17	3 51.79	+19 28.7	1.968	2.954	1.7	20.3	11 17	3 51.81	+13 58.8	1.306	2.291	3.1	20.0
11 27	3 42.94	+18 57.3	1.970	2.952	2.4	20.4	11 27	3 43.12	+12 25.9	1.330	2.306	4.7	20.1
12 7	3 34.70	+18 27.0	2.001	2.949	6.3	20.6	12 7	3 35.55	+11 7.6	1.380	2.322	9.2	20.4
12 17	3 27.94	+18 1.4	2.060	2.947	9.9	20.9	12 17	3 30.08	+10 9.4	1.454	2.338	13.4	20.7
12 27	3 23.31	+17 43.3	2.143	2.944	13.0	21.1	12 27	3 27.32	+9 33.3	1.549	2.356	16.9	21.0
<b>356145</b>	2009 <i>FD</i> <sub>75</sub>		11 21.3 259°83	1°0/20.8	18		<b>453041</b>	2007 <i>SB</i> <sub>15</sub>		11 21.4 192°01	6°6/17.5	17	
10 18	4 13.45	+19 9.3	1.884	2.722	13.7	20.7	10 18	4 19.21	+15 50.0	1.116	1.978	19.4	20.7
10 28	4 8.26	+18 38.9	1.807	2.719	10.2	20.5	10 28	4 13.53	+13 1.9	1.054	1.978	14.6	20.4
11 7	4 0.86	+18 2.4	1.754	2.717	6.2	20.3	11 7	4 4.44	+9 59.1	1.015	1.977	9.6	20.1
11 17	3 51.98	+17 21.8	1.728	2.714	2.0	20.0	11 17	3 53.15	+6 55.9	1.001	1.976	6.6	20.0
11 27	3 42.70	+16 40.9	1.731	2.711	3.0	20.1	11 27	3 41.42	+4 10.2	1.014	1.974	9.1	20.1
12 7	3 34.13	+16 3.9	1.762	2.708	7.2	20.3	12 7	3 31.06	+1 57.5	1.052	1.973	14.0	20.4
12 17	3 27.22	+15 34.6	1.820	2.706	11.1	20.6	12 17	3 23.46	+0 25.6	1.113	1.970	18.8	20.7
12 27	3 22.66	+15 16.2	1.901	2.703	14.4	20.8	12 27	3 19.39	-0 25.5	1.191	1.968	22.7	20.9
<b>382504</b>	2001 <i>RP</i> <sub>19</sub>		11 21.3 69°48	0°9/21.7	18		<b>365896</b>	2011 <i>WC</i> <sub>16</sub>		11 21.4 38°03	0°6/21.0	18	
10 18	4 21.25	+23 17.3	1.413	2.250	17.5	21.1	10 18	4 13.35	+22 15.2	1.401	2.253	16.8	19.5
10 28	4 14.26	+23 11.7	1.372	2.281	13.0	20.9	10 28	4 8.49	+21 19.7	1.354	2.272	12.4	19.3
11 7	4 4.46	+22 55.7	1.352	2.312	8.0	20.7	11 7	4 1.03	+20 13.5	1.328	2.293	7.5	19.1
11 17	3 53.02	+22 30.2	1.358	2.343	2.7	20.5	11 17	3 52.03	+19 0.7	1.328	2.314	2.2	18.8
11 27	3 41.52	+21 58.2	1.392	2.374	2.9	20.6	11 27	3 42.88	+17 47.7	1.355	2.336	3.2	18.9
12 7	3 31.44	+21 25.1	1.453	2.404	7.8	21.0	12 7	3 34.94	+16 41.7	1.408	2.359	8.1	19.3
12 17	3 23.86	+20 56.1	1.539	2.434	12.1	21.3	12 17	3 29.19	+15 48.4	1.487	2.382	12.4	19.6
12 27	3 19.40	+20 35.6	1.648	2.463	15.7	21.6	12 27	3 26.23	+15 11.3	1.587	2.406	16.0	19.9
<b>42689</b>	1998 <i>KX</i>		11 21.3 262°83	3°9/19.7	18		<b>256795</b>	<i>Suzzyahn</i>		11 21.4 174°42	0°2/21.5	18	
10 18	4 14.74	+11 1.3	1.805	2.646	14.0	19.3	10 18	4 14.20	+21 48.3	2.207	3.033	12.4	21.2
10 28	4 9.34	+10 32.3	1.724	2.635	10.6	19.1	10 28	4 8.55	+21 35.0	2.130	3.034	9.3	21.0
11 7	4 1.60	+10 4.4	1.666	2.624	6.9	18.8	11 7	4 0.94	+21 15.0	2.076	3.035	5.7	20.8
11 17	3 52.25	+9 41.0	1.635	2.613	4.0	18.6	11 17	3 52.03	+20 49.3	2.050	3.036	1.8	20.5
11 27	3 42.35	+9 25.8	1.632	2.601	5.1	18.7	11 27	3 42.78	+20 20.0	2.055	3.037	2.2	20.5
12 7	3 33.08	+9 22.1	1.657	2.590	8.8	18.9	12 7	3 34.16	+19 50.4	2.089	3.037	6.1	20.8
12 17	3 25.47	+9 31.5	1.708	2.578	12.6	19.1	12 17	3 27.02	+19 24.0	2.151	3.037	9.6	21.0
12 27	3 20.29	+9 54.6	1.781	2.566	15.9	19.3	12 27	3 21.99	+19 3.9	2.237	3.037	12.6	21.2
<b>128270</b>	2003 <i>TV</i> <sub>49</sub>		11 21.4 303°12	4°9/18.5	18		<b>262015</b>	2006 <i>QR</i> <sub>87</sub>		11 21.4 130°35			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>517156</b>	2013 <i>LK</i> <sub>6</sub>		11 21.4 126°80	0°3/21.2	18		<b>330975</b>	2009 <i>TL</i> <sub>6</sub>		11 21.4 346°54	6°0/23.4	17	
10 18	4 13.26	+19 42.8	2.816	3.634	10.2	22.5	10 18	4 18.79	+33 42.4	1.977	2.770	14.8	19.8
10 28	4 7.35	+19 30.6	2.749	3.651	7.5	22.4	10 28	4 12.81	+34 56.8	1.895	2.766	12.0	19.6
11 7	3 59.97	+19 14.5	2.708	3.667	4.6	22.2	11 7	4 4.02	+35 59.4	1.837	2.763	9.0	19.4
11 17	3 51.71	+18 55.3	2.697	3.682	1.4	22.0	11 17	3 53.15	+36 45.3	1.804	2.759	6.5	19.3
11 27	3 43.26	+18 34.9	2.716	3.697	1.9	22.0	11 27	3 41.44	+37 11.4	1.799	2.756	6.1	19.3
12 7	3 35.37	+18 15.4	2.767	3.712	5.0	22.3	12 7	3 30.33	+37 18.3	1.822	2.754	8.2	19.4
12 17	3 28.65	+17 59.2	2.847	3.726	7.8	22.5	12 17	3 21.14	+37 10.3	1.871	2.752	11.1	19.5
12 27	3 23.59	+17 48.1	2.953	3.740	10.2	22.7	12 27	3 14.81	+36 53.5	1.944	2.750	14.0	19.7
<b>180684</b>	2004 <i>HW</i> <sub>1</sub>		11 21.4 268°70	2°5/22.3	17		<b>284860</b>	2009 <i>BY</i> <sub>176</sub>		11 21.4 5°23	8°9/18.1	18	
10 18	4 17.82	+25 33.7	2.005	2.822	13.8	20.5	10 18	4 9.87	+ 3 44.3	1.189	2.057	18.0	19.7
10 28	4 11.77	+26 12.5	1.915	2.811	10.6	20.2	10 28	4 6.37	+ 2 34.3	1.139	2.057	14.3	19.5
11 7	4 3.21	+26 44.3	1.850	2.801	7.0	20.0	11 7	4 0.05	+ 1 34.7	1.108	2.058	10.8	19.3
11 17	3 52.83	+27 6.7	1.811	2.791	3.4	19.8	11 17	3 51.86	+ 0 54.0	1.099	2.060	8.9	19.2
11 27	3 41.72	+27 18.9	1.802	2.780	3.3	19.7	11 27	3 43.23	+ 0 39.2	1.114	2.064	10.1	19.3
12 7	3 31.17	+27 22.3	1.822	2.770	6.8	19.9	12 7	3 35.63	+ 0 53.3	1.152	2.069	13.4	19.5
12 17	3 22.30	+27 20.0	1.869	2.759	10.6	20.1	12 17	3 30.22	+ 1 34.6	1.210	2.076	17.0	19.7
12 27	3 15.99	+27 16.6	1.940	2.748	13.9	20.3	12 27	3 27.77	+ 2 39.0	1.287	2.084	20.3	20.0
<b>350858</b>	2002 <i>NK</i> <sub>5</sub>		11 21.4 77°29	5°6/24.9	16		<b>305767</b>	2009 <i>DG</i> <sub>33</sub>		11 21.4 337°69	3°9/19.6	18	
10 18	4 19.37	+37 14.7	1.781	2.568	16.4	21.3	10 18	4 12.97	+11 50.7	1.726	2.574	14.3	20.7
10 28	4 12.91	+37 14.8	1.721	2.588	13.2	21.1	10 28	4 8.03	+11 8.9	1.656	2.571	10.8	20.5
11 7	4 3.72	+36 54.0	1.682	2.607	9.7	20.9	11 7	4 0.81	+10 27.2	1.610	2.569	7.0	20.3
11 17	3 52.88	+36 10.6	1.668	2.627	6.7	20.8	11 17	3 52.08	+ 9 49.7	1.589	2.567	4.1	20.1
11 27	3 41.83	+35 6.2	1.682	2.646	5.7	20.8	11 27	3 42.93	+ 9 20.7	1.596	2.565	5.2	20.2
12 7	3 32.02	+33 47.1	1.724	2.665	7.7	21.0	12 7	3 34.51	+ 9 4.1	1.630	2.564	8.8	20.4
12 17	3 24.52	+32 21.7	1.792	2.685	10.9	21.2	12 17	3 27.82	+ 9 2.0	1.690	2.562	12.6	20.6
12 27	3 19.97	+30 58.7	1.885	2.703	13.9	21.4	12 27	3 23.54	+ 9 14.8	1.771	2.561	15.8	20.8
<b>154166</b>	2002 <i>GC</i> <sub>66</sub>		11 21.4 264°13	0°6/21.1	18		<b>378544</b>	2008 <i>CA</i> <sub>25</sub>		11 21.4 342°36	1°9/20.8	18	
10 18	4 12.84	+18 58.9	2.174	3.006	12.3	20.2	10 18	4 14.39	+16 56.7	1.144	2.011	18.6	20.7
10 28	4 7.61	+18 48.0	2.093	3.002	9.2	20.0	10 28	4 10.26	+16 45.8	1.077	2.003	14.0	20.4
11 7	4 0.41	+18 32.7	2.036	2.998	5.6	19.8	11 7	4 2.74	+16 30.9	1.029	1.996	8.7	20.1
11 17	3 51.90	+18 14.3	2.008	2.993	1.7	19.5	11 17	3 52.78	+16 14.2	1.005	1.990	3.0	19.7
11 27	3 42.99	+17 54.8	2.008	2.989	2.5	19.6	11 27	3 42.01	+15 59.6	1.004	1.985	4.3	19.8
12 7	3 34.66	+17 37.1	2.038	2.985	6.3	19.8	12 7	3 32.28	+15 51.8	1.029	1.981	10.1	20.1
12 17	3 27.75	+17 23.9	2.096	2.981	9.9	20.0	12 17	3 25.09	+15 54.6	1.075	1.978	15.4	20.4
12 27	3 22.91	+17 17.9	2.177	2.976	12.9	20.2	12 27	3 21.46	+16 10.4	1.141	1.976	19.9	20.7
<b>327069</b>	2004 <i>TY</i> <sub>305</sub>		11 21.4 121°32	0°7/21.8	18		<b>386676</b>	2009 <i>VT</i> <sub>43</sub>		11 21.4 4°32	0°2/21.3	18	
10 18	4 12.96	+24 31.0	2.263	3.085	12.3	20.6	10 18	4 10.87	+21 43.7	1.053	1.926	19.4	20.1
10 28	4 7.55	+24 0.4	2.189	3.091	9.2	20.4	10 28	4 7.74	+21 19.8	0.995	1.924	14.6	19.8
11 7	4 0.28	+23 20.6	2.140	3.097	5.7	20.2	11 7	4 1.18	+20 43.9	0.957	1.925	9.0	19.5
11 17	3 51.83	+22 33.1	2.118	3.103	2.0	19.9	11 17	3 52.26	+19 58.6	0.940	1.926	2.8	19.2
11 27	3 43.13	+21 40.6	2.127	3.109	2.1	19.9	11 27	3 42.74	+19 9.5	0.946	1.929	3.6	19.3
12 7	3 35.12	+20 47.4	2.165	3.115	5.8	20.2	12 7	3 34.44	+18 24.2	0.977	1.934	9.7	19.6
12 17	3 28.58	+19 57.9	2.232	3.120	9.2	20.4	12 17	3 28.81	+17 49.5	1.029	1.940	15.1	19.9
12 27	3 24.07	+19 15.9	2.323	3.125	12.1	20.6	12 27	3 26.71	+17 30.1	1.100	1.948	19.6	20.2
<b>233356</b>	2006 <i>DQ</i> <sub>86</sub>		11 21.4 193°00	0°7/20.9	18		<b>259504</b>	2003 <i>SD</i> <sub>290</sub>		11 21.4 99°94	2°1/20.7	17	
10 18	4 15.99	+18 59.5	2.273	3.097	12.1	22.2	10 18	4 21.25	+15 21.7	1.467	2.308	16.7	20.7
10 28	4 9.84	+18 41.2	2.190	3.095	9.1	22.0	10 28	4 14.34	+15 13.5	1.415	2.327	12.4	20.5
11 7	4 1.72	+18 18.1	2.132	3.092	5.5	21.7	11 7	4 4.66	+15 3.7	1.384	2.346	7.6	20.3
11 17	3 52.30	+17 51.5	2.103	3.089	1.7	21.5	11 17	3 53.26	+14 54.1	1.380	2.364	2.9	20.1
11 27	3 42.50	+17 23.8	2.105	3.085	2.5	21.5	11 27	3 41.58	+14 47.5	1.404	2.382	4.0	20.2
12 7	3 33.30	+16 58.1	2.136	3.080	6.3	21.8	12 7	3 31.08	+14 46.8	1.455	2.400	8.6	20.5
12 17	3 25.54	+16 37.3	2.196	3.075	9.8	22.0	12 17	3 22.89	+14 54.3	1.532	2.416	12.9	20.8
12 27	3 19.87	+16 24.3	2.281	3.069	12.8	22.2	12 27	3 17.71	+15 11.6	1.631	2.433	16.4	21.1
<b>393746</b>	2005 <i>EF</i> <sub>133</sub>		11 21.4 255°92	8°3/17.9	18		<b>487600</b>	2015 <i>LQ</i> <sub>33</sub>		11 21.4 88°52	6°6/19.2	18	
10 18	4 14.48	- 1 19.1	1.820	2.647	14.6	20.3	10 18	4 17.32	+ 2 3.5	1.797	2.625	14.7	20.6
10 28	4 8.97	- 2 7.2	1.756	2.644	11.9	20.2	10 28	4 10.91	+ 1 38.5	1.747	2.642	11.5	20.4
11 7	4 1.29	- 2 43.6	1.714	2.640	9.5	20.0	11 7	4 2.36	+ 1 23.8	1.719	2.658	8.5	20.3
11 17	3 52.18	- 3 2.4	1.697	2.637	8.3	19.9	11 17	3 52.53	+ 1 23.3	1.718	2.675	6.7	20.2
11 27	3 42.69	- 2 59.4	1.707	2.634	9.2	20.0	11 27	3 42.49	+ 1 39.8	1.745	2.691	7.5	20.3
12 7	3 33.90	- 2 33.1	1.743	2.631	11.4	20.1	12 7	3 33.34	+ 2 13.7	1.800	2.707	10.0	20.5
12 17	3 26.75	- 1 44.8	1.803	2.628	14.2	20.3	12 17	3 25.97	+ 3 3.6	1.880	2.723	12.9	20.7
12 27	3 21.92	- 0 37.9	1.884	2.624	16.7	20.5	12 27	3 20.97	+ 4 6.6	1.982	2.739	15.5	20.9
<b>454035</b>	2012 <i>FB</i> <sub>32</sub>		11 21.4 140°24	1°8/20.3	18		<b>157013</b>	2003 <i>QH</i> <sub>41</sub>		11 21.4 78°52	4°7/24.3	18	
10 18	4 11.94	+14 43.2	2.657	3.484	10.5	21.6	10 18	4 17.14	+35 5.5	2.261	3.044	13.5	20.3
10 28	4 6.49	+14 24.2	2.586	3.492	7.8	21.4	10 28	4 10.85	+35 28.1	2.199	3.065	10.8	20.1
11 7	3 59.52	+14 4.1	2.541	3.500	4.8	21.3	11 7	4 2.38	+35 36.1	2.160	3.085	7.9	20.0
11 17	3 51.60	+13 44.5	2.525	3.508	2.1	21.1	11 17	3 52.55	+35 27.5	2.147	3.105	5.4	19.9
11 27	3 43.45	+13 27.6	2.539	3.515	2.9	21.1	11 27	3 42.45	+35 2.8	2.163	3.125	4.8	19.9
12 7	3 35.83	+13 15.6	2.584	3.521	5.8	21.4	12 7	3 33.20	+34 25.2	2.208	3.145	6.6	20.0
12 17	3 29.36	+13 10.0	2.657	3.528	8.6	21.5	12 17	3 25.71	+33 39.7	2.280	3.165	9.2	20.2
12 27	3 24.56	+13 12.2	2.755	3.534	11.0	21.7	12 27	3 20.60	+32 52.2	2.378	3.185	11.7	20.4
<b>470958</b>	2009 <i>QP</i> <sub>1</sub>		11 21.4 95°13	5°4/19.2	16		<b>161356</b>	2003					



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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>392263</b>	2009 YV <sub>24</sub>		11 21.4 233°78	3°6/23.1	18		<b>226250</b>	2002 XS <sub>115</sub>		11 21.4 332°75	0°5/21.6	18	
10 18	4 18.15	+29 57.3	1.789	2.601	15.4	21.4	10 18	4 13.40	+22 37.5	1.254	2.111	18.0	20.4
10 28	4 12.28	+30 10.1	1.705	2.595	12.0	21.2	10 28	4 9.45	+22 22.5	1.180	2.100	13.6	20.2
11 7	4 3.63	+30 9.3	1.643	2.589	8.2	20.9	11 7	4 2.23	+21 56.0	1.125	2.090	8.5	19.8
11 17	3 53.04	+29 52.5	1.607	2.582	4.6	20.7	11 17	3 52.68	+21 18.9	1.094	2.080	2.8	19.5
11 27	3 41.80	+29 20.5	1.599	2.575	4.1	20.6	11 27	3 42.33	+20 34.9	1.089	2.072	3.3	19.5
12 7	3 31.35	+28 37.0	1.619	2.567	7.5	20.8	12 7	3 32.93	+19 50.5	1.108	2.064	9.1	19.8
12 17	3 22.92	+27 48.2	1.665	2.560	11.4	21.1	12 17	3 25.95	+19 12.5	1.151	2.057	14.4	20.1
12 27	3 17.38	+27 1.3	1.735	2.552	15.0	21.3	12 27	3 22.36	+18 46.7	1.214	2.050	18.8	20.3
<b>165640</b>	2001 GO <sub>5</sub>		11 21.4 61°30	6°9/23.9	18		<b>167187</b>	2003 SX <sub>294</sub>		11 21.4 11°49	0°9/21.2	18	
10 18	4 22.32	+35 1.6	1.679	2.474	17.0	19.5	10 18	4 16.19	+15 51.4	1.259	2.118	17.8	18.6
10 28	4 15.70	+36 15.5	1.616	2.486	13.7	19.3	10 28	4 11.28	+16 29.8	1.199	2.121	13.3	18.3
11 7	4 5.85	+37 13.3	1.574	2.498	10.4	19.1	11 7	4 3.21	+17 9.2	1.160	2.125	8.2	18.0
11 17	3 53.74	+37 49.1	1.557	2.511	7.6	19.0	11 17	3 52.94	+17 48.6	1.145	2.131	2.6	17.7
11 27	3 40.93	+38 0.2	1.567	2.523	7.0	19.0	11 27	3 42.03	+18 27.8	1.155	2.138	3.5	17.8
12 7	3 29.15	+37 48.9	1.604	2.536	9.1	19.2	12 7	3 32.16	+19 7.2	1.192	2.146	8.9	18.1
12 17	3 19.83	+37 21.5	1.666	2.549	12.1	19.4	12 17	3 24.71	+19 48.1	1.253	2.155	13.8	18.4
12 27	3 13.89	+36 46.7	1.751	2.562	15.1	19.6	12 27	3 20.58	+20 32.1	1.334	2.165	17.8	18.7
<b>447936</b>	2008 AL <sub>58</sub>		11 21.4 319°01	1°7/22.2	17		<b>301332</b>	2009 BC <sub>179</sub>		11 21.4 283°20	6°1/17.7	18	
10 18	4 13.35	+25 44.1	1.684	2.519	15.2	21.3	10 18	4 12.15	+ 7 32.1	1.840	2.683	13.7	20.9
10 28	4 8.72	+25 33.2	1.601	2.508	11.6	21.0	10 28	4 7.43	+ 6 11.1	1.755	2.664	10.7	20.6
11 7	4 1.46	+25 10.3	1.540	2.497	7.5	20.8	11 7	4 0.52	+ 4 50.6	1.695	2.645	7.7	20.4
11 17	3 52.36	+24 35.5	1.503	2.487	3.0	20.5	11 17	3 52.07	+ 3 37.1	1.662	2.626	6.1	20.3
11 27	3 42.66	+23 51.1	1.495	2.477	2.9	20.4	11 27	3 43.09	+ 2 37.4	1.656	2.606	7.4	20.3
12 7	3 33.71	+23 2.2	1.514	2.467	7.4	20.7	12 7	3 34.68	+ 1 56.6	1.678	2.587	10.4	20.5
12 17	3 26.66	+22 14.6	1.559	2.458	11.7	20.9	12 17	3 27.79	+ 1 37.6	1.723	2.567	13.8	20.6
12 27	3 22.35	+21 34.2	1.627	2.450	15.5	21.2	12 27	3 23.18	+ 1 40.4	1.790	2.548	16.9	20.8
<b>440821</b>	2006 RZ <sub>3</sub>		11 21.4 12°77	6°0/23.7	18		<b>84181</b>	2002 RK <sub>106</sub>		11 21.4 48°41	1°6/21.9	18	
10 18	4 14.08	+31 59.7	1.278	2.114	19.0	19.6	10 18	4 17.95	+22 41.2	1.641	2.474	15.6	18.6
10 28	4 10.03	+32 48.8	1.219	2.119	15.1	19.4	10 28	4 11.99	+23 14.4	1.579	2.486	11.8	18.4
11 7	4 2.56	+32 20.1	1.181	2.125	10.8	19.2	11 7	4 3.36	+23 40.9	1.539	2.498	7.4	18.2
11 17	3 52.73	+33 29.2	1.164	2.134	7.1	19.0	11 17	3 52.94	+23 59.1	1.526	2.510	2.9	17.9
11 27	3 42.25	+33 15.5	1.172	2.143	6.3	19.0	11 27	3 42.06	+24 9.1	1.541	2.522	2.9	17.9
12 7	3 32.96	+32 43.3	1.204	2.154	9.3	19.2	12 7	3 32.11	+24 13.1	1.583	2.535	7.3	18.2
12 17	3 26.33	+32 0.7	1.260	2.166	13.3	19.5	12 17	3 24.24	+24 14.7	1.652	2.548	11.4	18.5
12 27	3 23.26	+31 16.5	1.337	2.180	17.1	19.7	12 27	3 19.21	+24 17.9	1.744	2.561	14.9	18.8
<b>178526</b>	1999 TG <sub>251</sub>		11 21.4 109°65	1°6/22.2	18		<b>49850</b>	1999 XM <sub>04</sub>		11 21.4 295°51	0°5/21.6	18	
10 18	4 17.70	+25 26.7	1.858	2.680	14.5	21.1	10 18	4 15.58	+22 30.2	1.431	2.277	16.8	18.8
10 28	4 11.46	+25 24.1	1.793	2.693	11.0	20.9	10 28	4 10.91	+22 18.0	1.342	2.257	12.8	18.5
11 7	4 2.85	+25 11.3	1.751	2.706	7.0	20.7	11 7	4 3.11	+21 55.3	1.275	2.237	8.0	18.1
11 17	3 52.73	+24 48.2	1.736	2.719	2.9	20.5	11 17	3 52.97	+21 22.5	1.231	2.217	2.6	17.8
11 27	3 42.29	+24 16.8	1.750	2.731	2.7	20.5	11 27	3 41.90	+20 42.4	1.215	2.197	3.1	17.7
12 7	3 32.76	+23 41.2	1.793	2.743	6.7	20.8	12 7	3 31.55	+20 0.4	1.225	2.178	8.7	18.0
12 17	3 25.13	+23 6.1	1.863	2.755	10.5	21.0	12 17	3 23.38	+19 23.0	1.259	2.159	13.9	18.3
12 27	3 20.08	+22 36.4	1.956	2.766	13.8	21.3	12 27	3 18.44	+18 56.0	1.314	2.139	18.3	18.5
<b>123949</b>	2001 EC <sub>26</sub>		11 21.4 233°41	4°2/18.8	18		<b>329507</b>	2002 RC <sub>169</sub>		11 21.4 124°99	7°2/15.9	18	
10 18	4 10.79	+ 8 48.5	2.304	3.139	11.6	20.1	10 18	4 9.70	- 2 12.2	2.533	3.349	11.3	20.7
10 28	4 5.89	+ 7 58.4	2.230	3.137	8.8	19.9	10 28	4 4.86	- 3 32.5	2.478	3.355	9.3	20.6
11 7	3 59.31	+ 7 10.2	2.182	3.134	6.0	19.7	11 7	3 58.58	- 4 44.0	2.449	3.361	7.7	20.5
11 17	3 51.63	+ 6 27.4	2.161	3.131	4.3	19.6	11 17	3 51.40	- 5 41.7	2.446	3.367	7.2	20.5
11 27	3 43.65	+ 5 54.1	2.170	3.128	5.2	19.7	11 27	3 44.02	- 6 21.4	2.472	3.373	8.0	20.6
12 7	3 36.20	+ 5 33.2	2.207	3.124	7.8	19.8	12 7	3 37.16	- 6 41.0	2.523	3.378	9.6	20.7
12 17	3 30.02	+ 5 26.1	2.270	3.121	10.6	20.0	12 17	3 31.45	- 6 40.4	2.600	3.384	11.5	20.8
12 27	3 25.65	+ 5 33.2	2.357	3.118	13.2	20.2	12 27	3 27.34	- 6 21.3	2.697	3.389	13.3	21.0
<b>43131</b>	1999 XK <sub>72</sub>		11 21.4 49°91	0°4/21.2	18		<b>351068</b>	2003 TS <sub>13</sub>		11 21.4 18°45	1°0/20.9	18	
10 18	4 15.43	+20 40.9	1.489	2.335	16.2	18.6	10 18	4 5.43	+24 29.5	0.744	1.640	22.7	17.4
10 28	4 10.08	+20 21.1	1.436	2.351	12.1	18.4	10 28	4 3.95	+22 52.6	0.723	1.664	16.7	17.2
11 7	4 2.11	+19 53.7	1.404	2.367	7.3	18.1	11 7	3 58.75	+20 58.0	0.718	1.691	9.9	17.0
11 17	3 52.51	+19 20.6	1.398	2.384	2.2	17.9	11 17	3 51.46	+18 56.8	0.733	1.721	2.9	16.7
11 27	3 42.63	+18 45.7	1.419	2.401	3.0	18.0	11 27	3 44.16	+17 2.9	0.771	1.753	4.3	16.9
12 7	3 33.83	+18 13.6	1.467	2.418	7.8	18.3	12 7	3 38.64	+15 29.2	0.829	1.789	10.5	17.4
12 17	3 27.18	+17 48.8	1.540	2.435	12.1	18.6	12 17	3 35.99	+14 22.4	0.908	1.826	15.8	17.9
12 27	3 23.35	+17 34.6	1.636	2.453	15.7	18.9	12 27	3 36.68	+13 43.9	1.005	1.866	20.0	18.3
<b>69079</b>	2003 AS <sub>60</sub>		11 21.4 235°68	1°1/21.9	18		<b>223900</b>	2004 VB <sub>32</sub>		11 21.4 15°50	1°7/20.7	18	
10 18	4 17.79	+23 44.6	1.821	2.647	14.6	20.6	10 18	4 11.84	+16 30.5	1.642	2.493	14.7	19.8
10 28	4 11.86	+23 42.2	1.734	2.637	11.1	20.4	10 28	4 7.31	+16 17.4	1.580	2.498	11.0	19.6
11 7	4 3.33	+23 30.7	1.669	2.626	7.0	20.1	11 7	4 0.44	+16 1.6	1.540	2.504	6.7	19.3
11 17	3 52.96	+23 9.9	1.631	2.615	2.6	19.8	11 17	3 52.04	+15 45.3	1.525	2.511	2.4	19.1
11 27	3 41.94	+22 41.4	1.622	2.604	2.7	19.8	11 27	3 43.26	+15 31.2	1.539	2.518	3.4	19.2
12 7	3 31.61	+22 9.0	1.641	2.592	7.2	20.1	12 7	3 35.30	+15 22.7	1.579	2.527	7.7	19.5
12 17	3 23.12	+21 37.7	1.688	2.579	11.5	20.3	12 17	3 29.14	+15 22.3	1.645	2.536	11.7	19.7
12 27	3 17.32	+21 12.2	1.758	2.567	15.1	20.5	12 27	3 25.49	+15 31.6	1.733	2.546	15.1	20.0
<b>513698</b>	2012 BM <sub>156</sub>		11 21.4 128°73	6°0/17.4	18		<b>409199</b>	2003 UG <sub>416</sub>		11 21.4 26°93	4°7/18.8	18	

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>360156</b>	2013 <i>CF</i> <sub>66</sub>		11 21.4 191°74	2°3/22.7	18		<b>317021</b>	2001 <i>QL</i> <sub>217</sub>		11 21.4 60°44	0°5/21.6	18	
10 18	4 15.74	+28 1.3	2.141	2.952	13.2	21.1	10 18	4 19.23	+21 53.2	1.338	2.183	17.8	20.4
10 28	4 9.95	+27 58.9	2.059	2.951	10.2	20.9	10 28	4 13.13	+21 51.1	1.291	2.205	13.3	20.1
11 7	4 1.97	+27 45.3	2.001	2.950	6.7	20.7	11 7	4 4.07	+21 40.1	1.265	2.227	8.1	19.9
11 17	3 52.52	+27 20.1	1.970	2.949	3.3	20.4	11 17	3 53.19	+21 20.9	1.264	2.250	2.6	19.7
11 27	3 42.65	+26 44.7	1.968	2.947	2.9	20.4	11 27	3 42.07	+20 56.5	1.290	2.273	3.0	19.7
12 7	3 33.48	+26 2.7	1.996	2.945	6.2	20.6	12 7	3 32.28	+20 31.7	1.343	2.296	8.2	20.1
12 17	3 25.93	+25 18.8	2.051	2.943	9.7	20.8	12 17	3 24.99	+20 11.4	1.420	2.318	12.7	20.4
12 27	3 20.71	+24 38.2	2.131	2.940	12.8	21.0	12 27	3 20.87	+19 59.8	1.519	2.341	16.5	20.7
<b>108345</b>	2001 <i>KZ</i> <sub>7</sub>		11 21.4 113°69	1°4/20.7	18		<b>371293</b>	2006 <i>EV</i> <sub>17</sub>		11 21.4 223°96	3°1/23.3	18	
10 18	4 19.00	+17 56.5	1.733	2.567	14.9	20.7	10 18	4 14.69	+31 2.8	2.702	3.494	11.3	21.7
10 28	4 12.35	+17 27.7	1.676	2.586	11.0	20.5	10 28	4 8.92	+31 19.5	2.610	3.487	8.9	21.5
11 7	4 3.35	+16 54.1	1.643	2.604	6.7	20.3	11 7	4 1.28	+31 26.3	2.542	3.479	6.2	21.3
11 17	3 52.91	+16 18.2	1.637	2.622	2.3	20.0	11 17	3 52.36	+31 21.7	2.502	3.471	3.8	21.1
11 27	3 42.25	+15 43.5	1.660	2.639	3.3	20.1	11 27	3 43.00	+31 5.9	2.491	3.463	3.4	21.1
12 7	3 32.60	+15 14.1	1.711	2.655	7.6	20.4	12 7	3 34.11	+30 40.9	2.511	3.454	5.5	21.2
12 17	3 24.92	+14 53.6	1.790	2.671	11.5	20.7	12 17	3 26.52	+30 10.2	2.560	3.445	8.3	21.4
12 27	3 19.83	+14 44.2	1.891	2.686	14.8	21.0	12 27	3 20.87	+29 38.0	2.634	3.436	10.8	21.6
<b>398779</b>	2013 <i>AN</i> <sub>111</sub>		11 21.4 260°69	5°9/18.4	18		<b>217147</b>	2002 <i>NA</i> <sub>18</sub>		11 21.4 98°19	6°0/19.2	17	
10 18	4 13.13	+ 6 17.7	1.843	2.684	13.8	21.7	10 18	4 19.44	+ 6 49.3	1.558	2.397	16.0	20.3
10 28	4 8.04	+ 5 21.4	1.773	2.679	10.7	21.5	10 28	4 12.70	+ 6 0.2	1.514	2.420	12.2	20.2
11 7	4 0.81	+ 4 29.3	1.726	2.674	7.7	21.3	11 7	4 3.57	+ 5 17.5	1.492	2.442	8.5	20.0
11 17	3 52.17	+ 3 46.7	1.705	2.669	5.9	21.2	11 17	3 53.01	+ 4 46.1	1.496	2.464	6.1	19.9
11 27	3 43.12	+ 3 18.6	1.712	2.664	7.0	21.2	11 27	3 42.32	+ 4 30.6	1.528	2.485	7.1	20.0
12 7	3 34.74	+ 3 8.2	1.746	2.659	9.9	21.4	12 7	3 32.74	+ 4 33.0	1.587	2.506	10.2	20.3
12 17	3 27.94	+ 3 16.5	1.805	2.654	13.1	21.6	12 17	3 25.24	+ 4 53.3	1.671	2.526	13.6	20.5
12 27	3 23.41	+ 3 42.8	1.885	2.648	15.9	21.8	12 27	3 20.43	+ 5 29.6	1.776	2.546	16.5	20.8
<b>479428</b>	2013 <i>YR</i> <sub>88</sub>		11 21.4 218°71	5°1/19.4	18		<b>257194</b>	2008 <i>PZ</i> <sub>21</sub>		11 21.4 59°12	8°1/26.9	17	
10 18	4 16.41	+ 7 44.1	1.732	2.570	14.6	21.2	10 18	4 18.83	+45 16.3	2.216	2.952	15.1	20.1
10 28	4 10.64	+ 7 14.0	1.660	2.567	11.2	20.9	10 28	4 12.69	+45 53.5	2.144	2.960	12.9	20.0
11 7	4 2.48	+ 6 48.4	1.611	2.564	7.7	20.7	11 7	4 3.83	+46 10.2	2.092	2.968	10.7	19.8
11 17	3 52.71	+ 6 31.3	1.588	2.560	5.2	20.6	11 17	3 53.16	+46 1.9	2.063	2.976	8.8	19.7
11 27	3 42.46	+ 6 26.7	1.594	2.556	6.2	20.6	11 27	3 42.03	+45 27.7	2.061	2.984	8.1	19.7
12 7	3 32.94	+ 6 36.8	1.627	2.552	9.5	20.8	12 7	3 31.86	+44 30.6	2.085	2.992	8.8	19.8
12 17	3 25.19	+ 7 2.3	1.685	2.547	13.1	21.0	12 17	3 23.81	+43 17.1	2.135	3.000	10.6	19.9
12 27	3 19.94	+ 7 42.2	1.765	2.542	16.3	21.2	12 27	3 18.63	+41 55.6	2.209	3.008	12.8	20.1
<b>66111</b>	1998 <i>SY</i> <sub>39</sub>		11 21.4 223°44	3°5/19.7	18		<b>368644</b>	2005 <i>CW</i> <sub>78</sub>		11 21.4 265°16	4°3/23.9	18	
10 18	4 15.41	+14 12.8	1.609	2.455	15.2	19.5	10 18	4 14.59	+34 6.0	2.447	3.234	12.5	21.0
10 28	4 10.07	+13 17.7	1.537	2.452	11.4	19.3	10 28	4 9.07	+34 27.1	2.361	3.230	10.0	20.9
11 7	4 2.19	+12 19.1	1.487	2.449	7.2	19.0	11 7	4 1.46	+34 35.5	2.297	3.225	7.3	20.7
11 17	3 52.63	+11 21.8	1.464	2.445	3.8	18.8	11 17	3 52.42	+34 29.4	2.260	3.221	4.9	20.5
11 27	3 42.59	+10 31.3	1.469	2.441	5.1	18.9	11 27	3 42.93	+34 8.7	2.252	3.217	4.4	20.5
12 7	3 33.37	+ 9 53.0	1.501	2.437	9.2	19.1	12 7	3 34.01	+33 35.6	2.273	3.212	6.3	20.6
12 17	3 26.06	+ 9 30.5	1.558	2.433	13.3	19.4	12 17	3 26.58	+32 54.6	2.322	3.208	9.0	20.8
12 27	3 21.41	+ 9 25.3	1.636	2.428	16.8	19.6	12 27	3 21.33	+32 10.9	2.396	3.204	11.6	20.9
<b>103689</b>	2000 <i>CK</i> <sub>69</sub>		11 21.4 239°80	7°5/25.7	18		<b>344031</b>	2012 <i>LZ</i> <sub>13</sub>		11 21.4 55°44	3°2/19.5	18	
10 18	4 19.40	+41 9.5	1.952	2.716	16.0	19.6	10 18	4 10.67	+11 9.4	2.345	3.181	11.4	21.1
10 28	4 13.37	+41 41.4	1.870	2.713	13.4	19.4	10 28	4 5.80	+10 35.0	2.275	3.184	8.6	20.9
11 7	4 4.39	+41 53.1	1.808	2.711	10.6	19.2	11 7	3 59.28	+10 1.6	2.231	3.187	5.6	20.7
11 17	3 53.36	+41 39.9	1.771	2.708	8.3	19.1	11 17	3 51.71	+ 9 31.8	2.214	3.190	3.3	20.6
11 27	3 41.70	+41 0.6	1.760	2.705	7.5	19.0	11 27	3 43.87	+ 9 8.9	2.227	3.194	4.2	20.6
12 7	3 30.97	+39 58.7	1.776	2.701	8.8	19.1	12 7	3 36.59	+ 8 55.2	2.268	3.197	7.0	20.8
12 17	3 22.46	+38 41.5	1.818	2.698	11.4	19.3	12 17	3 30.55	+ 8 52.3	2.337	3.200	9.9	21.0
12 27	3 17.03	+37 18.5	1.884	2.695	14.2	19.4	12 27	3 26.29	+ 9 0.8	2.429	3.204	12.5	21.2
<b>220851</b>	2004 <i>VC</i> <sub>61</sub>		11 21.4 349°68	9°1/16.1	18		<b>415010</b>	2011 <i>HF</i> <sub>22</sub>		11 21.4 296°67	6°2/16.2	17	
10 18	4 7.71	+ 1 33.4	1.553	2.406	15.3	19.4	10 18	4 10.26	+ 5 56.9	2.235	3.071	11.9	20.7
10 28	4 4.33	+ 0 7.0	1.492	2.397	12.4	19.2	10 28	4 5.70	+ 4 7.4	2.147	3.048	9.4	20.5
11 7	3 58.70	+1 39.3	1.453	2.389	10.0	19.1	11 7	3 59.35	+ 2 17.7	2.084	3.025	7.1	20.3
11 17	3 51.56	+ 2 54.5	1.439	2.382	9.1	19.0	11 17	3 51.78	+ 0 34.6	2.051	3.002	6.2	20.2
11 27	3 43.99	+ 3 45.0	1.449	2.376	10.4	19.0	11 27	3 43.77	+ 0 55.1	2.046	2.979	7.5	20.3
12 7	3 37.13	+ 4 6.3	1.483	2.372	13.0	19.2	12 7	3 36.21	+ 2 5.6	2.070	2.956	10.0	20.4
12 17	3 31.96	+ 3 58.2	1.538	2.368	15.9	19.4	12 17	3 29.87	+ 2 54.0	2.118	2.933	12.7	20.5
12 27	3 29.17	+ 3 23.5	1.612	2.366	18.6	19.6	12 27	3 25.40	+ 3 19.4	2.188	2.910	15.2	20.7
<b>15327</b>	1993 <i>RA</i> <sub>3</sub>		11 21.4 95°93	3°7/19.2	18		<b>360840</b>	2005 <i>NM</i> <sub>35</sub>		11 21.4 10°84	1°9/22.4	18	
10 18	4 14.31	+12 54.0	1.915	2.754	13.4	17.9	10 18	4 14.30	+26 6.0	1.764	2.594	14.8	20.7
10 28	4 8.63	+11 44.9	1.860	2.772	10.0	17.7	10 28	4 9.25	+26 3.4	1.691	2.594	11.3	20.5
11 7	4 1.00	+10 34.7	1.830	2.789	6.4	17.5	11 7	4 1.71	+25 49.5	1.640	2.596	7.3	20.3
11 17	3 52.20	+ 9 28.3	1.828	2.805	3.8	17.4	11 17	3 52.52	+25 24.4	1.615	2.597	3.2	20.0
11 27	3 43.24	+ 8 30.8	1.855	2.822	5.0	17.5	11 27	3 42.87	+24 49.9	1.617	2.599	2.9	20.0
12 7	3 35.12	+ 7 46.6	1.911	2.838	8.2	17.7	12 7	3 34.03	+24 10.4	1.648	2.601	7.0	20.3
12 17	3 28.64	+ 7 18.1	1.993	2.854	11.5	18.0	12 17	3 27.06	+23 31.1	1.705	2.603	11.0	20.5
12 27	3 24.35	+ 7 6.1	2.097	2.869	14.3	18.2	12 27	3 22.71	+22 57.3	1.785	2.606	14.5	20.8
<b>107782</b>	2001 <i>FX</i> <sub>49</sub>		11 21.4 169°58	5°3/24.2	18		<b>130612</b>	200					

EPHEMERIDES

11 21.4

11 21.4

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>383536</b>	2007 <i>DY</i> <sub>55</sub>		11 21.4	5°96	2°1/20.8	18	<b>308872</b>	2006 <i>SB</i> <sub>42</sub>		11 21.4	41°89	1°0/21.1	18
10 18	4 12.42	+16 8.8	1.033	1.910	19.4	19.8	10 18	4 15.89	+17 29.7	1.546	2.393	15.7	19.8
10 28	4 8.94	+16 5.0	0.978	1.909	14.6	19.5	10 28	4 10.43	+17 32.9	1.491	2.407	11.7	19.6
11 7	4 2.01	+15 58.9	0.942	1.910	9.0	19.2	11 7	4 2.41	+17 32.9	1.458	2.421	7.1	19.4
11 17	3 52.69	+15 52.9	0.927	1.913	3.2	18.9	11 17	3 52.76	+17 30.9	1.451	2.437	2.3	19.1
11 27	3 42.70	+15 50.5	0.936	1.917	4.5	19.0	11 27	3 42.77	+17 28.9	1.471	2.452	3.1	19.2
12 7	3 33.91	+15 55.6	0.968	1.923	10.2	19.3	12 7	3 33.76	+17 29.5	1.519	2.468	7.8	19.5
12 17	3 27.79	+16 10.8	1.022	1.930	15.5	19.6	12 17	3 26.80	+17 35.4	1.592	2.485	11.9	19.8
12 27	3 25.26	+16 37.8	1.095	1.939	19.9	19.9	12 27	3 22.58	+17 48.7	1.687	2.502	15.4	20.1
<b>273083</b>	2006 <i>EG</i> <sub>19</sub>		11 21.4	323°36	4°0/19.0	18	<b>330185</b>	2006 <i>DV</i> <sub>64</sub>		11 21.4	264°73	1°4/20.7	18
10 18	4 10.30	+10 50.7	2.085	2.928	12.4	20.9	10 18	4 12.54	+16 32.1	2.434	3.263	11.2	21.6
10 28	4 5.77	+9 55.8	2.010	2.922	9.4	20.7	10 28	4 7.36	+16 14.7	2.339	3.246	8.4	21.4
11 7	3 59.38	+9 1.1	1.960	2.916	6.2	20.5	11 7	4 0.38	+15 54.5	2.269	3.229	5.2	21.2
11 17	3 51.78	+8 10.4	1.937	2.911	4.1	20.3	11 17	3 52.14	+15 33.0	2.227	3.212	1.9	20.9
11 27	3 43.82	+7 28.5	1.942	2.906	5.1	20.4	11 27	3 43.46	+15 12.7	2.216	3.194	2.8	20.9
12 7	3 36.43	+6 58.9	1.975	2.901	8.1	20.6	12 7	3 35.19	+14 55.9	2.234	3.176	6.2	21.1
12 17	3 30.41	+6 43.8	2.035	2.896	11.3	20.7	12 17	3 28.13	+14 45.2	2.281	3.158	9.5	21.3
12 27	3 26.37	+6 44.0	2.117	2.891	14.1	20.9	12 27	3 22.92	+14 42.5	2.352	3.140	12.4	21.5
<b>237276</b>	Nakama		11 21.4	129°29	4°3/19.7	18	<b>170469</b>	2003 <i>UC</i> <sub>234</sub>		11 21.4	66°66	1°1/20.7	18
10 18	4 17.79	+7 30.9	2.055	2.882	13.1	20.3	10 18	4 15.20	+23 11.3	1.700	2.535	15.0	19.3
10 28	4 11.16	+7 12.8	1.995	2.896	10.0	20.2	10 28	4 9.68	+21 37.8	1.631	2.542	11.2	19.1
11 7	4 5.77	+6 59.5	1.959	2.909	6.8	20.0	11 7	4 1.83	+19 50.6	1.587	2.549	6.8	18.8
11 17	3 52.57	+6 53.6	1.951	2.922	4.5	19.9	11 17	3 52.55	+17 54.8	1.571	2.557	2.1	18.6
11 27	3 42.68	+6 57.6	1.973	2.935	5.3	19.9	11 27	3 43.06	+15 58.3	1.584	2.564	3.3	18.7
12 7	3 33.36	+7 12.9	2.024	2.947	8.1	20.1	12 7	3 34.56	+14 10.0	1.627	2.571	7.8	19.0
12 17	3 25.64	+7 39.7	2.102	2.958	11.2	20.4	12 17	3 28.00	+12 37.3	1.697	2.579	12.0	19.2
12 27	3 20.09	+8 17.3	2.203	2.969	13.9	20.6	12 27	3 23.97	+11 24.9	1.790	2.587	15.4	19.5
<b>492919</b>	2014 <i>RV</i> <sub>16</sub>		11 21.4	355°04	3°0/20.2	17	<b>241189</b>	2007 <i>RP</i> <sub>299</sub>		11 21.4	151°74	0°8/21.1	18
10 18	4 10.74	+12 59.1	1.690	2.542	14.3	20.1	10 18	4 15.82	+19 12.6	1.962	2.793	13.5	21.2
10 28	4 6.55	+12 43.5	1.619	2.537	10.7	19.8	10 28	4 10.01	+18 52.7	1.890	2.798	10.0	21.0
11 7	4 0.06	+12 28.3	1.571	2.533	6.8	19.6	11 7	4 2.04	+18 27.4	1.842	2.802	6.1	20.7
11 17	3 52.03	+12 16.3	1.548	2.530	3.3	19.4	11 17	3 52.65	+17 58.4	1.821	2.807	1.9	20.5
11 27	3 43.53	+12 10.8	1.553	2.528	4.4	19.5	11 27	3 42.90	+17 28.4	1.830	2.810	2.7	20.5
12 7	3 35.71	+12 14.1	1.584	2.526	8.2	19.7	12 7	3 33.89	+17 1.1	1.867	2.814	6.8	20.8
12 17	3 29.58	+12 28.1	1.641	2.526	12.1	19.9	12 17	3 26.54	+16 39.9	1.932	2.817	10.6	21.1
12 27	3 25.85	+12 53.3	1.719	2.527	15.5	20.1	12 27	3 21.51	+16 27.6	2.021	2.820	13.8	21.3
<b>347300</b>	2011 <i>OQ</i> <sub>34</sub>		11 21.4	343°95	1°6/20.9	18	<b>111206</b>	2001 <i>WM</i> <sub>29</sub>		11 21.4	50°43	4°3/19.9	18
10 18	4 15.13	+16 41.9	1.493	2.344	16.0	20.4	10 18	4 17.33	+13 41.5	1.075	1.943	19.5	19.2
10 28	4 10.17	+16 36.7	1.422	2.340	12.0	20.1	10 28	4 12.15	+12 53.4	1.032	1.957	14.6	18.9
11 7	4 2.44	+16 28.7	1.372	2.336	7.4	19.9	11 7	4 3.68	+12 4.4	1.008	1.973	9.2	18.7
11 17	3 52.80	+16 19.6	1.347	2.333	2.6	19.6	11 17	3 53.17	+11 20.3	1.006	1.988	4.7	18.5
11 27	3 42.56	+16 11.9	1.350	2.330	3.6	19.6	11 27	3 42.36	+10 47.6	1.030	2.005	6.1	18.7
12 7	3 33.14	+16 8.9	1.379	2.328	8.5	19.9	12 7	3 32.99	+10 31.3	1.077	2.021	11.0	19.0
12 17	3 25.76	+16 13.4	1.433	2.326	13.0	20.2	12 17	3 26.34	+10 33.6	1.147	2.038	15.7	19.3
12 27	3 21.28	+16 27.7	1.508	2.324	16.8	20.4	12 27	3 23.12	+10 54.1	1.236	2.055	19.6	19.6
<b>511864</b>	2015 <i>GJ</i> <sub>16</sub>		11 21.4	103°81	0°6/21.7	18	<b>167448</b>	2003 <i>XS</i> <sub>8</sub>		11 21.4	359°49	8°2/24.5	18
10 18	4 20.16	+22 35.6	1.771	2.596	15.0	22.1	10 18	4 18.57	+37 14.2	1.507	2.309	18.3	19.8
10 28	4 13.27	+22 28.5	1.715	2.618	11.2	22.0	10 28	4 13.48	+38 23.2	1.436	2.307	15.1	19.5
11 7	4 3.97	+22 13.3	1.682	2.640	6.9	21.8	11 7	4 4.87	+39 13.4	1.385	2.306	11.8	19.3
11 17	3 53.20	+21 50.3	1.676	2.661	2.3	21.5	11 17	3 53.68	+39 38.3	1.356	2.305	9.0	19.2
11 27	3 42.20	+21 22.2	1.700	2.682	2.5	21.6	11 27	3 41.56	+39 34.5	1.352	2.305	8.2	19.1
12 7	3 32.25	+20 52.8	1.752	2.702	6.9	21.9	12 7	3 30.43	+39 4.8	1.373	2.306	10.2	19.3
12 17	3 24.33	+20 26.6	1.832	2.721	10.8	22.2	12 17	3 21.93	+38 16.7	1.418	2.308	13.3	19.4
12 27	3 19.06	+20 7.4	1.936	2.740	14.1	22.4	12 27	3 17.09	+37 20.5	1.484	2.310	16.6	19.7
<b>513302</b>	2007 <i>CD</i> <sub>5</sub>		11 21.4	234°86	1°7/20.7	18	<b>116150</b>	2003 <i>WD</i> <sub>163</sub>		11 21.4	323°45	8°4/18.5	18
10 18	4 16.74	+17 13.6	1.785	2.622	14.4	22.1	10 18	4 14.12	+0 22.9	1.587	2.425	15.8	19.1
10 28	4 11.03	+16 48.1	1.701	2.613	10.8	21.8	10 28	4 9.18	+0 17.5	1.517	2.415	12.8	18.9
11 7	4 2.84	+16 17.9	1.641	2.603	6.6	21.6	11 7	4 1.75	+0 46.1	1.468	2.405	9.9	18.7
11 17	3 52.93	+15 45.2	1.608	2.592	2.4	21.3	11 17	3 52.61	+0 56.6	1.444	2.395	8.4	18.6
11 27	3 42.44	+15 13.5	1.603	2.582	3.5	21.3	11 27	3 42.92	+0 44.5	1.446	2.385	9.3	18.6
12 7	3 32.62	+14 46.8	1.626	2.571	7.9	21.6	12 7	3 33.93	+0 8.0	1.472	2.376	12.0	18.7
12 17	3 24.58	+14 28.8	1.677	2.559	12.1	21.8	12 17	3 26.74	+0 51.2	1.522	2.368	15.2	18.9
12 27	3 19.10	+14 22.3	1.749	2.547	15.7	22.0	12 27	3 22.15	+2 9.5	1.592	2.360	18.2	19.1
<b>518377</b>	2017 <i>FC</i> <sub>72</sub>		11 21.4	52°44	7°1/16.9	18	<b>279503</b>	2011 <i>AW</i> <sub>50</sub>		11 21.4	202°69	3°2/19.4	17
10 18	4 10.99	+3 22.8	1.920	2.759	13.4	20.4	10 18	4 11.08	+10 24.5	2.654	3.483	10.4	21.2
10 28	4 6.16	+1 48.6	1.877	2.776	10.6	20.3	10 28	4 5.98	+9 49.7	2.576	3.481	7.9	21.0
11 7	3 59.52	+0 21.7	1.857	2.794	8.1	20.1	11 7	3 59.39	+9 15.9	2.523	3.477	5.2	20.8
11 17	3 51.80	+0 51.4	1.864	2.812	7.1	20.1	11 17	3 51.81	+8 45.6	2.500	3.474	3.3	20.7
11 27	3 43.94	+0 45.0	1.899	2.830	8.1	20.2	11 27	3 43.95	+8 21.8	2.506	3.470	4.1	20.8
12 7	3 36.85	+2 16.1	1.960	2.848	10.4	20.4	12 7	3 36.55	+8 6.7	2.542	3.466	6.6	20.9
12 17	3 31.27	+2 24.4	2.045	2.866	12.9	20.6	12 17	3 30.25	+8 1.8	2.606	3.462	9.3	21.1
12 27	3 27.70	+2 11.9	2.151	2.885	15.1	20.8	12 27	3 25.57	+8 7.8	2.694	3.458	11.6	21.3
<b>376123</b>	2011 <i>AT</i> <sub>28</sub>		11 21.4	345°89	2°8/20.5	18	<b>242197</b>	2003 <i>PJ</i> <sub>11</sub>		11 21.4			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>297220</b>	2011 LZ <sub>4</sub>		11 21.4 73°65'	7.1/19.4	18		<b>447569</b>	2006 TJ <sub>59</sub>		11 21.4 36°72'	1.2/22.1	18	
10 18	4 19.46	+ 1 22.3	1.677	2.504	15.6	20.0	10 18	4 14.21	+24 55.6	1.800	2.631	14.5	21.0
10 28	4 12.50	+ 0 55.1	1.640	2.534	12.2	19.8	10 28	4 9.09	+24 37.6	1.729	2.635	11.0	20.8
11 7	4 3.37	+ 0 39.8	1.626	2.563	9.1	19.7	11 7	4 1.60	+24 8.8	1.681	2.638	6.9	20.5
11 17	3 53.00	+ 0 40.2	1.638	2.592	7.2	19.7	11 17	3 52.57	+23 30.1	1.658	2.642	2.6	20.3
11 27	3 42.59	+ 0 59.0	1.677	2.621	7.9	19.8	11 27	3 43.15	+22 44.4	1.664	2.647	2.5	20.3
12 7	3 33.26	+ 1 36.0	1.744	2.649	10.4	20.0	12 7	3 34.55	+21 56.5	1.699	2.651	6.8	20.6
12 17	3 25.88	+ 2 29.1	1.836	2.677	13.2	20.2	12 17	3 27.78	+21 11.6	1.760	2.656	10.8	20.8
12 27	3 21.00	+ 3 35.1	1.949	2.705	15.7	20.5	12 27	3 23.52	+20 34.6	1.844	2.660	14.2	21.1
<b>330227</b>	2006 JC <sub>49</sub>		11 21.4 155°66'	1.3/22.2	17		<b>147170</b>	2002 VJ <sub>27</sub>		11 21.4 32°35'	0.5/21.3	18	
10 18	4 14.13	+24 15.3	2.533	3.347	11.3	20.8	10 18	4 15.38	+20 26.1	1.049	1.917	19.9	19.2
10 28	4 8.46	+24 28.3	2.453	3.349	8.6	20.7	10 28	4 10.91	+20 9.6	1.006	1.933	14.8	19.0
11 7	4 0.99	+24 34.9	2.398	3.351	5.5	20.5	11 7	4 3.04	+19 44.2	0.982	1.949	9.0	18.7
11 17	3 52.33	+24 34.7	2.371	3.354	2.3	20.3	11 17	3 53.02	+19 12.3	0.981	1.967	2.8	18.4
11 27	3 43.31	+24 28.5	2.375	3.356	2.2	20.3	11 27	3 42.68	+18 38.8	1.003	1.986	3.6	18.5
12 7	3 34.80	+24 18.2	2.409	3.358	5.3	20.5	12 7	3 33.83	+18 9.8	1.050	2.006	9.4	18.9
12 17	3 27.60	+24 6.5	2.471	3.360	8.4	20.7	12 17	3 27.75	+17 50.5	1.120	2.027	14.6	19.3
12 27	3 22.31	+23 56.4	2.559	3.361	11.1	20.9	12 27	3 25.18	+17 44.3	1.209	2.048	18.7	19.6
<b>238257</b>	2003 WO		11 21.4 306°85'	1.6/20.9	18		<b>335468</b>	2005 WU <sub>35</sub>		11 21.4 25°34'	0.6/21.7	18	
10 18	4 17.00	+14 55.2	1.642	2.485	15.1	20.2	10 18	4 13.92	+24 19.3	1.213	2.070	18.5	20.2
10 28	4 11.55	+15 13.1	1.557	2.471	11.4	19.9	10 28	4 9.65	+23 42.0	1.158	2.077	13.9	19.9
11 7	4 3.36	+15 31.9	1.495	2.457	7.1	19.6	11 7	4 2.23	+22 50.1	1.122	2.086	8.6	19.6
11 17	3 53.17	+15 52.2	1.458	2.443	2.6	19.3	11 17	3 52.79	+21 46.2	1.109	2.095	2.9	19.3
11 27	3 42.19	+16 14.9	1.450	2.430	3.5	19.4	11 27	3 42.94	+20 36.4	1.122	2.106	3.2	19.4
12 7	3 31.81	+16 41.2	1.469	2.417	8.2	19.6	12 7	3 34.36	+19 28.9	1.161	2.117	8.7	19.7
12 17	3 23.29	+17 12.4	1.515	2.405	12.7	19.9	12 17	3 28.28	+18 31.4	1.223	2.129	13.7	20.1
12 27	3 17.55	+17 50.0	1.583	2.392	16.5	20.1	12 27	3 25.46	+17 49.4	1.306	2.141	17.9	20.4
<b>185108</b>	2006 SM <sub>37</sub>		11 21.4 220°67'	2.0/22.3	18		<b>337922</b>	2001 XK <sub>225</sub>		11 21.4 294°01'	1.2/22.0	18	
10 18	4 19.24	+25 40.6	1.624	2.450	16.0	21.4	10 18	4 15.35	+24 42.1	1.554	2.392	16.1	20.8
10 28	4 13.28	+25 43.0	1.543	2.445	12.3	21.1	10 28	4 10.60	+24 27.3	1.463	2.373	12.3	20.5
11 7	4 4.41	+25 34.0	1.484	2.440	7.9	20.9	11 7	4 2.92	+24 0.2	1.394	2.354	7.9	20.2
11 17	3 53.48	+25 12.5	1.451	2.434	3.4	20.6	11 17	3 53.09	+23 20.7	1.351	2.335	2.9	19.9
11 27	3 41.88	+24 40.0	1.446	2.428	3.1	20.5	11 27	3 42.43	+22 31.5	1.334	2.316	3.0	19.9
12 7	3 31.12	+24 1.1	1.469	2.421	7.7	20.8	12 7	3 32.48	+21 38.1	1.344	2.298	8.1	20.1
12 17	3 22.50	+23 21.7	1.518	2.414	12.2	21.1	12 17	3 24.58	+20 47.3	1.380	2.279	12.9	20.3
12 27	3 16.92	+22 48.0	1.590	2.407	16.1	21.3	12 27	3 19.70	+20 5.6	1.437	2.261	17.1	20.6
<b>53209</b>	1999 CQ <sub>75</sub>		11 21.4 157°46'	0.4/21.7	18		<b>141768</b>	2002 NG <sub>2</sub>		11 21.4 52°60'	3.6/23.1	18	
10 18	4 14.55	+23 33.4	2.347	3.165	12.0	19.0	10 18	4 18.46	+30 6.0	1.246	2.082	19.4	19.2
10 28	4 8.77	+23 4.0	2.270	3.171	9.0	18.8	10 28	4 13.06	+29 54.3	1.193	2.097	15.0	18.9
11 7	4 1.15	+22 26.4	2.219	3.176	5.6	18.6	11 7	4 4.30	+29 22.9	1.159	2.112	10.0	18.7
11 17	3 52.38	+21 41.7	2.196	3.181	1.8	18.3	11 17	3 53.42	+28 31.1	1.149	2.128	5.1	18.5
11 27	3 43.33	+20 52.9	2.203	3.185	2.1	18.4	11 27	3 42.20	+27 23.0	1.164	2.144	4.2	18.5
12 7	3 34.94	+20 3.7	2.241	3.189	5.7	18.6	12 7	3 32.45	+26 7.1	1.205	2.160	8.6	18.8
12 17	3 27.99	+19 18.2	2.307	3.193	9.1	18.8	12 17	3 25.47	+24 53.1	1.271	2.177	13.2	19.1
12 27	3 23.03	+18 40.1	2.398	3.196	11.9	19.0	12 27	3 21.98	+23 49.3	1.358	2.194	17.3	19.4
<b>331448</b>	2012 HX <sub>7</sub>		11 21.4 188°73'	4.2/17.7	18		<b>197644</b>	2004 LD <sub>22</sub>		11 21.5 103°89'	1.7/22.3	18	
10 18	4 10.80	+ 8 20.4	2.782	3.609	10.1	21.1	10 18	4 20.65	+25 47.3	1.840	2.657	14.8	20.7
10 28	4 5.66	+ 6 56.6	2.708	3.608	7.7	20.9	10 28	4 13.64	+25 45.3	1.784	2.680	11.2	20.5
11 7	3 59.14	+ 5 33.4	2.661	3.607	5.4	20.8	11 7	4 4.22	+25 32.5	1.750	2.703	7.1	20.3
11 17	3 51.74	+ 4 15.0	2.644	3.606	4.2	20.7	11 17	3 53.35	+25 8.9	1.743	2.726	3.0	20.1
11 27	3 44.12	+ 3 6.1	2.658	3.604	5.2	20.7	11 27	3 42.26	+24 36.6	1.766	2.747	2.7	20.1
12 7	3 36.97	+ 2 10.2	2.701	3.602	7.3	20.9	12 7	3 32.22	+23 59.8	1.819	2.768	6.7	20.4
12 17	3 30.88	+ 1 29.4	2.772	3.599	9.7	21.0	12 17	3 24.20	+23 23.5	1.898	2.789	10.4	20.7
12 27	3 26.32	+ 1 4.4	2.867	3.597	11.8	21.2	12 27	3 18.84	+22 52.7	2.002	2.809	13.6	20.9
<b>195684</b>	2002 PY		11 21.4 54°43'	0.1/21.4	18		<b>72788</b>	2001 FV <sub>171</sub>		11 21.5 205°45'	1.8/22.3	18	
10 18	4 13.12	+24 39.6	2.090	2.915	13.0	19.0	10 18	4 17.33	+24 54.0	2.733	3.535	10.9	19.1
10 28	4 7.72	+23 25.9	2.027	2.932	9.7	18.8	10 28	4 10.84	+25 28.5	2.642	3.531	8.3	18.9
11 7	4 0.47	+22 1.0	1.989	2.948	5.9	18.6	11 7	4 2.50	+25 57.5	2.578	3.527	5.4	18.7
11 17	3 52.13	+20 28.5	1.979	2.965	1.8	18.4	11 17	3 52.86	+26 19.6	2.542	3.522	2.5	18.5
11 27	3 43.69	+18 53.8	2.000	2.982	2.3	18.4	11 27	3 42.74	+26 34.5	2.538	3.517	2.4	18.5
12 7	3 36.09	+17 23.1	2.051	2.999	6.2	18.7	12 7	3 33.04	+26 43.0	2.565	3.511	5.3	18.7
12 17	3 30.08	+16 2.2	2.131	3.016	9.7	19.0	12 17	3 24.56	+26 47.4	2.622	3.505	8.2	18.9
12 27	3 26.18	+14 55.1	2.236	3.034	12.7	19.2	12 27	3 17.96	+26 50.4	2.705	3.499	10.8	19.1
<b>489984</b>	2008 SL <sub>125</sub>		11 21.4 92°03'	3.3/23.2	17		<b>2097</b>	Galle		11 21.5 45°55'	2.4/22.7	18	
10 18	4 15.39	+30 15.5	2.434	3.232	12.2	21.9	10 18	4 15.04	+27 41.3	1.822	2.645	14.7	16.1
10 28	4 9.56	+30 43.3	2.358	3.238	9.5	21.7	10 28	4 9.54	+27 41.6	1.769	2.668	11.2	16.0
11 7	4 1.74	+31 0.9	2.306	3.245	6.6	21.6	11 7	4 1.76	+27 30.0	1.739	2.691	7.3	15.8
11 17	3 52.59	+31 7.0	2.281	3.252	4.0	21.4	11 17	3 52.59	+27 6.4	1.735	2.715	3.5	15.6
11 27	3 43.04	+31 1.3	2.286	3.258	3.6	21.4	11 27	3 43.21	+26 33.0	1.759	2.739	3.1	15.6
12 7	3 34.09	+30 45.9	2.321	3.265	5.9	21.6	12 7	3 34.80	+25 54.0	1.811	2.763	6.5	15.9
12 17	3 26.61	+30 24.5	2.384	3.271	8.7	21.8	12 17	3 28.29	+25 14.5	1.891	2.788	10.1	16.2
12 27	3 21.24	+30 1.2	2.471	3.278	11.4	21.9	12 27	3 24.26	+24 39.4	1.994	2.813	13.2	16.4
<b>168509</b>	1999 TU <sub>68</sub>		11 21.4 269°28'	2.2/22.4	18		<b>469812</b>	2005 SD <sub>118</sub>		11 21.5 50°02'	0.7/21.2	16	
10 18	4 16.43	+26 21.6	1.778</										

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>351830</b>	2006 QY <sub>45</sub>		11 21.5 118°48	3°5/23.2	18		<b>70308</b>	1999 RO <sub>135</sub>		11 21.5 55°39	9°0/25.7	18	
10 18	4 19.82	+30 17.1	2.158	2.955	13.6	21.1	10 18	4 23.27	+40 37.6	1.520	2.300	19.1	18.5
10 28	4 13.01	+30 44.9	2.090	2.971	10.6	20.9	10 28	4 16.82	+41 42.9	1.467	2.320	15.9	18.3
11 7	4 3.91	+31 1.1	2.046	2.986	7.3	20.8	11 7	4 6.77	+42 24.5	1.433	2.339	12.6	18.2
11 17	3 53.31	+31 3.7	2.029	3.000	4.3	20.6	11 17	3 54.29	+42 36.1	1.422	2.359	9.9	18.1
11 27	3 42.35	+30 52.8	2.042	3.014	3.8	20.6	11 27	3 41.26	+42 15.7	1.436	2.379	9.0	18.1
12 7	3 32.18	+30 31.1	2.084	3.028	6.4	20.8	12 7	3 29.66	+41 28.0	1.475	2.399	10.4	18.2
12 17	3 23.80	+30 3.0	2.154	3.041	9.5	21.0	12 17	3 20.98	+40 22.3	1.538	2.420	13.0	18.4
12 27	3 17.89	+29 33.8	2.249	3.054	12.4	21.2	12 27	3 16.07	+39 9.8	1.624	2.440	15.8	18.7
<b>45147</b>	1999 XA <sub>108</sub>		11 21.5 102°56	0°8/21.2	18		<b>110199</b>	2001 SX <sub>196</sub>		11 21.5 11°21	2°0/20.5	18	
10 18	4 21.94	+18 2.4	1.589	2.423	16.0	19.6	10 18	4 13.46	+16 20.9	1.827	2.669	13.8	20.1
10 28	4 14.83	+18 4.4	1.535	2.444	11.9	19.4	10 28	4 8.43	+15 51.0	1.755	2.669	10.3	19.9
11 7	4 5.08	+18 2.4	1.503	2.464	7.2	19.2	11 7	4 1.20	+15 17.6	1.708	2.670	6.4	19.7
11 17	3 53.66	+17 57.1	1.499	2.484	2.3	18.9	11 17	3 52.51	+14 43.4	1.686	2.671	2.5	19.4
11 27	3 41.97	+17 50.7	1.523	2.504	3.1	19.0	11 27	3 43.42	+14 12.1	1.694	2.671	3.6	19.5
12 7	3 31.40	+17 45.9	1.575	2.523	7.7	19.3	12 7	3 35.05	+13 47.3	1.729	2.672	7.6	19.8
12 17	3 23.03	+17 46.0	1.654	2.541	11.9	19.6	12 17	3 28.35	+13 32.3	1.790	2.674	11.4	20.0
12 27	3 17.55	+17 53.3	1.756	2.559	15.4	19.9	12 27	3 24.00	+13 28.8	1.875	2.675	14.7	20.2
<b>289462</b>	2005 EB <sub>66</sub>		11 21.5 186°57	1°6/22.4	18		<b>415506</b>	2014 PP <sub>39</sub>		11 21.5 128°21	0°8/20.9	18	
10 18	4 16.78	+25 52.9	2.356	3.165	12.2	22.0	10 18	4 13.24	+18 54.5	2.240	3.070	12.1	21.6
10 28	4 10.59	+25 51.8	2.272	3.164	9.3	21.8	10 28	4 7.90	+18 32.2	2.167	3.075	9.0	21.4
11 7	4 2.39	+25 41.8	2.212	3.164	6.0	21.6	11 7	4 0.71	+18 5.4	2.119	3.080	5.5	21.2
11 17	3 52.85	+25 22.8	2.181	3.162	2.6	21.4	11 17	3 52.34	+17 35.5	2.099	3.084	1.8	21.0
11 27	3 42.90	+24 56.0	2.180	3.160	2.4	21.4	11 27	3 43.66	+17 5.4	2.108	3.089	2.5	21.0
12 7	3 33.57	+24 24.3	2.209	3.158	5.8	21.6	12 7	3 35.61	+16 38.1	2.148	3.093	6.1	21.3
12 17	3 25.71	+23 51.7	2.267	3.155	9.1	21.8	12 17	3 28.97	+16 16.6	2.215	3.098	9.5	21.5
12 27	3 19.97	+23 22.3	2.350	3.151	12.0	22.0	12 27	3 24.31	+16 3.3	2.306	3.102	12.4	21.7
<b>145978</b>	2000 AT <sub>92</sub>		11 21.5 223°06	7°1/19.2	18		<b>266641</b>	2008 SH <sub>14</sub>		11 21.5 321°85	2°9/19.9	17	
10 18	4 20.96	- 0 6.5	1.959	2.771	14.2	19.9	10 18	4 10.97	+13 30.0	2.007	2.850	12.7	20.2
10 28	4 13.91	- 0 23.4	1.878	2.761	11.5	19.7	10 28	4 6.48	+12 53.4	1.926	2.840	9.6	20.0
11 7	4 4.54	- 0 28.9	1.820	2.750	8.8	19.5	11 7	3 59.99	+12 15.5	1.870	2.830	6.1	19.8
11 17	3 53.55	- 0 18.9	1.790	2.739	7.1	19.4	11 17	3 52.15	+11 39.3	1.840	2.821	3.2	19.6
11 27	3 42.01	+ 0 9.7	1.788	2.727	7.9	19.4	11 27	3 43.87	+11 8.6	1.840	2.812	4.2	19.6
12 7	3 31.08	+ 0 57.3	1.815	2.715	10.4	19.5	12 7	3 36.16	+10 46.8	1.867	2.804	7.6	19.8
12 17	3 21.78	+ 2 2.5	1.869	2.701	13.4	19.7	12 17	3 29.88	+10 36.6	1.920	2.795	11.2	20.0
12 27	3 14.87	+ 3 22.2	1.945	2.688	16.2	19.9	12 27	3 25.69	+10 39.1	1.996	2.787	14.2	20.2
<b>161188</b>	2002 TA <sub>157</sub>		11 21.5 77°00	1°8/22.2	18		<b>261163</b>	2005 TK <sub>101</sub>		11 21.5 61°51	0°7/21.2	18	
10 18	4 18.76	+23 40.3	2.354	3.164	12.2	19.5	10 18	4 14.33	+18 50.5	1.944	2.779	13.4	20.7
10 28	4 12.04	+24 28.8	2.283	3.176	9.3	19.3	10 28	4 8.97	+18 41.5	1.875	2.786	10.0	20.5
11 7	4 3.28	+25 12.0	2.236	3.188	5.9	19.1	11 7	4 1.48	+18 28.1	1.831	2.792	6.1	20.3
11 17	3 53.13	+25 48.0	2.219	3.200	2.7	18.9	11 17	3 52.60	+18 11.5	1.813	2.799	1.9	20.1
11 27	3 42.55	+26 16.1	2.232	3.212	2.6	19.0	11 27	3 43.36	+17 54.1	1.824	2.805	2.6	20.1
12 7	3 32.57	+26 37.0	2.277	3.224	5.8	19.2	12 7	3 34.85	+17 38.9	1.864	2.812	6.7	20.4
12 17	3 24.08	+26 52.7	2.350	3.235	8.9	19.4	12 17	3 27.96	+17 28.7	1.931	2.819	10.4	20.6
12 27	3 17.76	+27 6.2	2.449	3.247	11.7	19.6	12 27	3 23.36	+17 26.0	2.021	2.826	13.6	20.9
<b>185672</b>	1995 SZ <sub>25</sub>		11 21.5 90°81	0°3/21.6	18		<b>271973</b>	2005 BJ <sub>2</sub>		11 21.5 281°36	4°7/19.7	18	
10 18	4 14.22	+22 4.5	2.058	2.886	13.0	20.9	10 18	4 16.37	+ 3 53.7	2.388	3.205	11.8	20.2
10 28	4 8.78	+21 50.6	1.988	2.894	9.8	20.7	10 28	4 10.25	+ 3 56.9	2.294	3.187	9.3	20.0
11 7	4 1.30	+21 29.6	1.942	2.902	6.0	20.5	11 7	4 2.22	+ 4 7.5	2.226	3.168	6.6	19.8
11 17	3 52.50	+21 2.5	1.924	2.909	1.9	20.3	11 17	3 52.86	+ 4 28.1	2.186	3.150	4.8	19.7
11 27	3 43.38	+20 31.8	1.934	2.917	2.3	20.3	11 27	3 42.98	+ 5 0.3	2.176	3.131	5.5	19.7
12 7	3 34.97	+20 0.9	1.974	2.924	6.2	20.6	12 7	3 33.50	+ 5 44.6	2.196	3.112	8.0	19.8
12 17	3 28.15	+19 33.5	2.041	2.931	9.9	20.8	12 17	3 25.24	+ 6 40.4	2.244	3.093	10.8	20.0
12 27	3 23.54	+19 13.0	2.133	2.939	12.9	21.0	12 27	3 18.87	+ 7 46.2	2.317	3.074	13.5	20.1
<b>487708</b>	2015 RQ <sub>34</sub>		11 21.5 317°64	6°1/19.2	18		<b>242910</b>	2006 MT <sub>2</sub>		11 21.5 101°63	6°1/18.9	18	
10 18	4 14.97	+ 3 10.6	1.905	2.736	13.8	21.1	10 18	4 16.91	+ 3 2.7	2.007	2.831	13.5	21.0
10 28	4 9.41	+ 2 48.0	1.835	2.733	10.9	20.9	10 28	4 10.49	+ 2 25.8	1.959	2.853	10.5	20.8
11 7	4 1.74	+ 2 33.9	1.788	2.731	8.0	20.7	11 7	4 2.19	+ 1 57.1	1.935	2.874	7.7	20.7
11 17	3 52.66	+ 2 32.3	1.768	2.728	6.2	20.6	11 17	3 52.78	+ 1 40.5	1.939	2.894	6.1	20.6
11 27	3 43.17	+ 2 46.3	1.776	2.726	7.0	20.6	11 27	3 43.22	+ 1 39.2	1.971	2.915	6.9	20.7
12 7	3 34.33	+ 3 16.9	1.811	2.723	9.6	20.8	12 7	3 34.48	+ 1 54.2	2.031	2.934	9.2	20.9
12 17	3 27.05	+ 4 3.4	1.872	2.721	12.6	21.0	12 17	3 27.34	+ 2 24.9	2.117	2.954	11.9	21.1
12 27	3 22.01	+ 5 3.8	1.955	2.719	15.4	21.2	12 27	3 22.34	+ 3 9.3	2.225	2.972	14.3	21.3
<b>58263</b>	1993 SO <sub>4</sub>		11 21.5 24°10	2°7/20.6	18		<b>487543</b>	2014 UY <sub>196</sub>		11 21.5 129°05	0°9/20.9	18	
10 18	4 12.99	+16 52.2	0.869	1.755	21.3	18.2	10 18	4 11.60	+19 17.7	2.436	3.265	11.3	21.1
10 28	4 9.55	+16 22.8	0.832	1.767	15.9	17.9	10 28	4 6.54	+18 40.4	2.361	3.269	8.4	20.9
11 7	4 2.39	+15 48.6	0.811	1.781	9.7	17.6	11 7	3 59.83	+17 58.0	2.312	3.273	5.1	20.7
11 17	3 52.89	+15 14.5	0.812	1.797	3.7	17.4	11 17	3 52.06	+17 12.6	2.291	3.277	1.7	20.5
11 27	3 43.02	+14 46.8	0.834	1.815	5.1	17.5	11 27	3 44.05	+16 27.2	2.301	3.280	2.4	20.6
12 7	3 34.76	+14 31.1	0.879	1.834	10.9	17.9	12 7	3 36.60	+15 45.3	2.340	3.284	5.8	20.8
12 17	3 29.48	+14 30.8	0.944	1.855	16.2	18.3	12 17	3 30.43	+15 10.1	2.407	3.288	9.0	21.0
12 27	3 27.93	+14 47.0	1.028	1.876	20.6	18.6	12 27	3 26.06	+14 44.1	2.500	3.291	11.7	21.2
<b>25579</b>	1999 XO <sub>217</sub>		11 21.5 185°41	0°6/21.1	18		<b>352967</b>	2009 BG <sub>49</sub>		11 21.5 347°28	2°0/22.3	16	
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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>384353</b>	2009 <i>UV</i> <sub>17</sub>		11 21.5 31°73	3°0/22.4	18		<b>158145</b>	2001 <i>FP</i> <sub>121</sub>		11 21.5 158°21	1°3/20.8	18	
10 18	4 18.19	+25 6.5	1.124	1.978	19.9	20.0	10 18	4 13.91	+15 41.0	2.385	3.214	11.5	19.9
10 28	4 13.22	+25 44.2	1.075	1.991	15.2	19.8	10 28	4 8.34	+15 40.3	2.309	3.215	8.6	19.7
11 7	4 4.64	+26 9.9	1.045	2.004	9.8	19.5	11 7	4 0.99	+15 38.3	2.257	3.217	5.2	19.5
11 17	3 53.66	+26 20.9	1.037	2.019	4.5	19.3	11 17	3 52.48	+15 36.2	2.234	3.219	2.0	19.3
11 27	3 42.14	+26 17.5	1.054	2.035	4.1	19.3	11 27	3 43.61	+15 35.5	2.241	3.220	2.7	19.4
12 7	3 32.03	+26 4.1	1.095	2.051	9.1	19.7	12 7	3 35.27	+15 38.0	2.278	3.221	6.0	19.6
12 17	3 24.80	+25 47.2	1.160	2.069	14.0	20.0	12 17	3 28.23	+15 45.3	2.343	3.222	9.2	19.8
12 27	3 21.31	+25 33.4	1.245	2.087	18.1	20.3	12 27	3 23.08	+15 58.6	2.433	3.223	12.0	20.0
<b>260986</b>	2005 <i>SH</i> <sub>75</sub>		11 21.5 154°33	0°5/21.2	17		<b>487527</b>	2014 <i>US</i> <sub>104</sub>		11 21.5 252°36	4°0/23.3	17	
10 18	4 13.80	+19 52.1	2.069	2.901	12.9	21.6	10 18	4 17.57	+31 6.8	2.340	3.134	12.8	21.0
10 28	4 8.50	+19 31.9	1.993	2.902	9.6	21.4	10 28	4 11.48	+31 52.7	2.256	3.132	10.1	20.8
11 7	4 1.18	+19 6.0	1.942	2.903	5.9	21.2	11 7	4 3.14	+32 28.6	2.195	3.130	7.2	20.6
11 17	3 52.52	+18 36.0	1.918	2.904	1.8	21.0	11 17	3 53.21	+32 51.9	2.161	3.127	4.6	20.5
11 27	3 43.49	+18 4.5	1.923	2.905	2.5	21.0	11 27	3 42.69	+33 1.3	2.157	3.125	4.2	20.4
12 7	3 35.11	+17 35.2	1.958	2.905	6.5	21.3	12 7	3 32.70	+32 58.2	2.183	3.123	6.5	20.6
12 17	3 28.26	+17 11.2	2.020	2.906	10.1	21.5	12 17	3 24.25	+32 46.0	2.236	3.121	9.4	20.7
12 27	3 23.57	+16 55.6	2.105	2.907	13.2	21.7	12 27	3 18.09	+32 29.4	2.314	3.118	12.1	20.9
<b>50913</b>	2000 <i>GD</i> <sub>56</sub>		11 21.5 292°85	1°2/20.9	18		<b>259789</b>	2004 <i>BB</i> <sub>52</sub>		11 21.5 275°84	1°5/22.1	18	
10 18	4 14.35	+17 56.3	1.852	2.691	13.8	19.4	10 18	4 17.41	+24 43.3	1.498	2.335	16.6	20.8
10 28	4 9.17	+17 37.8	1.776	2.688	10.3	19.2	10 28	4 12.23	+24 37.6	1.415	2.323	12.7	20.5
11 7	4 1.70	+17 14.8	1.723	2.685	6.3	18.9	11 7	4 3.98	+24 20.1	1.353	2.312	8.1	20.2
11 17	3 52.71	+16 49.2	1.696	2.682	2.2	18.6	11 17	3 53.54	+23 50.3	1.316	2.301	3.2	19.9
11 27	3 43.25	+16 24.0	1.698	2.678	3.0	18.7	11 27	3 42.31	+23 10.5	1.307	2.289	3.1	19.9
12 7	3 34.47	+16 2.6	1.729	2.675	7.3	19.0	12 7	3 31.89	+22 25.9	1.324	2.278	8.2	20.2
12 17	3 27.37	+15 48.4	1.786	2.672	11.2	19.2	12 17	3 23.67	+21 43.0	1.366	2.266	13.0	20.4
12 27	3 22.65	+15 43.8	1.866	2.669	14.6	19.4	12 27	3 18.61	+21 8.2	1.431	2.255	17.2	20.7
<b>26592</b>	Maryrenfro		11 21.5 36°54	3°4/23.5	18		<b>319167</b>	2005 <i>YU</i> <sub>92</sub>		11 21.5 144°10	5°9/18.0	18	
10 18	4 15.25	+31 44.5	1.474	2.299	17.5	17.2	10 18	4 12.58	- 0 36.9	2.692	3.503	10.8	20.9
10 28	4 10.30	+31 13.1	1.415	2.312	13.6	17.0	10 28	4 7.02	- 1 14.3	2.632	3.512	8.7	20.7
11 7	4 2.49	+30 21.6	1.377	2.326	9.1	16.7	11 7	4 0.04	- 1 43.5	2.598	3.520	6.9	20.6
11 17	3 52.92	+29 10.5	1.363	2.340	4.8	16.5	11 17	3 52.17	- 2 1.2	2.590	3.528	5.9	20.6
11 27	3 43.10	+27 44.6	1.376	2.355	3.9	16.5	11 27	3 44.10	- 2 4.6	2.612	3.536	6.6	20.6
12 7	3 34.50	+26 12.2	1.417	2.371	7.6	16.8	12 7	3 36.55	- 1 52.7	2.662	3.543	8.3	20.7
12 17	3 28.24	+24 42.4	1.483	2.387	11.8	17.1	12 17	3 30.11	- 1 25.9	2.739	3.549	10.3	20.9
12 27	3 24.97	+23 23.3	1.572	2.404	15.5	17.3	12 27	3 25.26	- 0 45.7	2.838	3.556	12.1	21.1
<b>243175</b>	2007 <i>TH</i> <sub>138</sub>		11 21.5 106°10	0°0/21.5	18		<b>328658</b>	2009 <i>SR</i> <sub>255</sub>		11 21.5 107°31	2°1/20.1	16	
10 18	4 16.44	+20 35.9	1.855	2.687	14.1	20.6	10 18	4 20.05	+20 18.5	1.663	2.495	15.5	21.2
10 28	4 10.65	+20 31.0	1.786	2.694	10.6	20.4	10 28	4 13.17	+18 39.8	1.608	2.517	11.4	21.0
11 7	4 2.56	+20 20.1	1.741	2.702	6.5	20.2	11 7	4 3.94	+16 51.2	1.577	2.538	6.9	20.8
11 17	3 52.96	+20 3.9	1.723	2.709	2.0	19.9	11 17	3 53.37	+14 58.6	1.574	2.558	2.7	20.6
11 27	3 42.97	+19 44.7	1.734	2.716	2.5	19.9	11 27	3 42.75	+13 10.4	1.602	2.578	4.0	20.7
12 7	3 33.78	+19 25.6	1.773	2.723	6.8	20.2	12 7	3 33.29	+11 34.6	1.659	2.597	8.3	21.0
12 17	3 26.36	+19 10.3	1.839	2.729	10.7	20.5	12 17	3 25.92	+10 17.2	1.743	2.616	12.3	21.3
12 27	3 21.40	+19 1.8	1.929	2.736	14.1	20.7	12 27	3 21.20	+ 9 21.0	1.851	2.633	15.5	21.6
<b>173527</b>	2000 <i>VO</i> <sub>60</sub>		11 21.5 33°29	1°1/21.9	18		<b>484968</b>	2009 <i>TY</i> <sub>30</sub>		11 21.5 128°06	1°4/20.7	18	
10 18	4 15.64	+24 43.0	1.017	1.881	20.6	18.9	10 18	4 13.24	+16 30.8	2.480	3.308	11.1	22.1
10 28	4 11.35	+24 15.9	0.971	1.894	15.6	18.7	10 28	4 7.70	+16 9.1	2.412	3.318	8.3	21.9
11 7	4 3.45	+23 33.0	0.944	1.908	9.7	18.4	11 7	4 0.53	+15 45.0	2.368	3.328	5.0	21.7
11 17	3 53.27	+22 36.3	0.938	1.923	3.4	18.1	11 17	3 52.34	+15 20.1	2.354	3.338	1.9	21.5
11 27	3 42.72	+21 32.1	0.956	1.939	3.5	18.2	11 27	3 43.91	+14 56.8	2.369	3.347	2.7	21.6
12 7	3 33.74	+20 29.4	0.998	1.956	9.4	18.6	12 7	3 36.06	+14 37.7	2.415	3.357	5.8	21.8
12 17	3 27.68	+19 36.6	1.063	1.974	14.8	18.9	12 17	3 29.47	+14 24.9	2.489	3.365	8.9	22.0
12 27	3 25.29	+18 59.5	1.147	1.992	19.1	19.3	12 27	3 24.68	+14 20.0	2.588	3.374	11.5	22.2
<b>234721</b>	2002 <i>JC</i> <sub>120</sub>		11 21.5 93°37	8°6/17.3	18		<b>174446</b>	2002 <i>XS</i> <sub>64</sub>		11 21.5 306°89	2°7/22.8	17	
10 18	4 14.67	- 0 42.0	1.777	2.606	14.8	20.2	10 18	4 14.91	+27 43.3	1.791	2.614	14.9	20.1
10 28	4 9.09	- 2 1.3	1.732	2.621	12.0	20.0	10 28	4 9.99	+27 50.6	1.703	2.602	11.6	19.8
11 7	4 1.47	- 3 9.1	1.710	2.635	9.6	19.9	11 7	4 2.46	+27 46.0	1.638	2.590	7.7	19.6
11 17	3 52.59	- 3 58.6	1.713	2.649	8.6	19.9	11 17	3 53.06	+27 28.4	1.598	2.578	3.8	19.3
11 27	3 43.52	- 4 24.8	1.743	2.663	9.5	20.0	11 27	3 42.99	+26 58.5	1.586	2.566	3.4	19.3
12 7	3 35.31	- 4 25.7	1.798	2.677	11.7	20.1	12 7	3 33.58	+26 20.2	1.602	2.554	7.2	19.5
12 17	3 28.78	- 4 2.5	1.877	2.690	14.2	20.3	12 17	3 26.02	+25 39.0	1.644	2.543	11.3	19.7
12 27	3 24.53	- 3 18.4	1.975	2.704	16.4	20.5	12 27	3 21.17	+25 0.9	1.710	2.532	14.9	19.9
<b>142078</b>	2002 <i>QZ</i> <sub>43</sub>		11 21.5 116°58	2°3/20.6	17		<b>275195</b>	2009 <i>WE</i> <sub>126</sub>		11 21.5 270°51	1°1/20.9	18	
10 18	4 20.46	+15 2.4	1.672	2.507	15.3	20.4	10 18	4 13.11	+16 40.3	2.481	3.308	11.1	21.0
10 28	4 13.63	+14 44.6	1.615	2.525	11.4	20.2	10 28	4 7.85	+16 34.9	2.385	3.291	8.3	20.8
11 7	4 4.34	+14 25.0	1.581	2.542	7.0	19.9	11 7	4 0.80	+16 27.4	2.314	3.274	5.1	20.5
11 17	3 53.51	+14 6.1	1.575	2.558	2.9	19.7	11 17	3 52.48	+16 18.7	2.272	3.257	1.8	20.3
11 27	3 42.40	+13 50.8	1.597	2.574	3.9	19.8	11 27	3 43.69	+16 10.7	2.260	3.239	2.5	20.3
12 7	3 32.31	+13 42.2	1.648	2.589	8.0	20.1	12 7	3 35.30	+16 5.4	2.277	3.221	6.0	20.5
12 17	3 24.24	+13 42.7	1.725	2.604	12.0	20.4	12 17	3 28.08	+16 4.8	2.324	3.203	9.3	20.7
12 27	3 18.86	+13 53.6	1.825	2.618	15.3	20.6	12 27	3 22.69	+16 10.6	2.394	3.185	12.1	20.8
<b>285492</b>	2000 <i>CL</i> <sub>134</sub>		11 21.5 15°84	0°5/21.7	18		<b>212143</b>	2005 <i>EM</i> <sub>27</sub>					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>446333</b>	2014 <i>GT</i> <sub>1</sub>		11 21.5 172°09	1°5/22.3	18		<b>515154</b>	2011 <i>MC</i> <sub>4</sub>		11 21.5 84°26	8°1/18.3	18	
10 18	4 17.65	+25 41.9	2.245	3.056	12.7	22.5	10 18	4 17.01	- 0 30.5	1.779	2.604	14.9	21.6
10 28	4 11.32	+25 37.2	2.166	3.059	9.7	22.3	10 28	4 10.73	- 1 27.4	1.741	2.629	12.0	21.4
11 7	4 2.91	+25 23.4	2.110	3.062	6.2	22.1	11 7	4 2.43	- 2 11.9	1.726	2.653	9.4	21.3
11 17	3 53.13	+25 0.3	2.082	3.064	2.6	21.9	11 17	3 52.94	- 2 38.6	1.736	2.677	8.1	21.3
11 27	3 42.97	+24 29.5	2.085	3.066	2.4	21.9	11 27	3 43.36	- 2 43.9	1.773	2.701	8.8	21.4
12 7	3 33.47	+23 54.1	2.118	3.067	5.9	22.1	12 7	3 34.73	- 2 26.8	1.837	2.724	11.0	21.6
12 17	3 25.55	+23 18.5	2.179	3.067	9.4	22.3	12 17	3 27.87	- 1 49.2	1.925	2.747	13.5	21.8
12 27	3 19.84	+22 46.9	2.265	3.067	12.4	22.5	12 27	3 23.31	- 0 54.4	2.034	2.770	15.8	22.0
<b>188773</b>	2005 <i>UO</i> <sub>467</sub>		11 21.5 120°63	2°4/22.7	18		<b>347394</b>	2012 <i>SK</i> <sub>1</sub>		11 21.5 34°03	1°9/20.8	18	
10 18	4 18.89	+27 51.3	1.703	2.523	15.7	20.4	10 18	4 15.39	+17 24.2	1.163	2.027	18.6	20.2
10 28	4 12.76	+27 41.0	1.636	2.533	12.0	20.2	10 28	4 10.69	+17 1.0	1.118	2.043	13.8	20.0
11 7	4 3.98	+27 16.9	1.590	2.542	7.9	20.0	11 7	4 2.90	+16 33.2	1.093	2.059	8.4	19.7
11 17	3 53.48	+26 38.9	1.570	2.551	3.6	19.8	11 17	3 53.16	+16 3.9	1.091	2.077	3.0	19.5
11 27	3 42.59	+25 49.5	1.579	2.560	3.2	19.7	11 27	3 43.11	+15 37.9	1.114	2.095	4.1	19.6
12 7	3 32.72	+24 54.0	1.616	2.568	7.2	20.0	12 7	3 34.37	+15 19.9	1.163	2.114	9.3	20.0
12 17	3 24.95	+23 59.0	1.680	2.576	11.2	20.3	12 17	3 28.16	+15 13.4	1.234	2.134	14.1	20.3
12 27	3 20.01	+23 10.6	1.768	2.584	14.7	20.5	12 27	3 25.17	+15 20.2	1.326	2.154	18.0	20.6
<b>102076</b>	1999 <i>RL</i> <sub>144</sub>		11 21.5 99°73	1°3/22.1	18		<b>302590</b>	2002 <i>QX</i> <sub>1</sub>		11 21.5 115°23	7°1/17.6	18	
10 18	4 20.92	+25 26.4	1.528	2.357	16.8	19.6	10 18	4 13.56	+ 3 15.2	1.884	2.718	13.8	20.9
10 28	4 14.27	+25 2.4	1.473	2.377	12.7	19.4	10 28	4 8.31	+ 1 57.6	1.827	2.725	10.9	20.8
11 7	4 4.84	+24 25.5	1.439	2.396	7.9	19.1	11 7	4 1.07	+ 0 46.8	1.794	2.732	8.3	20.6
11 17	3 53.72	+23 36.8	1.431	2.415	3.0	18.9	11 17	3 52.57	- 0 11.0	1.788	2.738	7.1	20.6
11 27	3 42.36	+22 40.2	1.451	2.434	2.8	18.9	11 27	3 43.81	- 0 50.3	1.809	2.745	8.1	20.6
12 7	3 32.25	+21 42.1	1.500	2.452	7.6	19.3	12 7	3 35.79	- 1 8.0	1.857	2.751	10.5	20.8
12 17	3 24.48	+20 49.1	1.575	2.469	11.9	19.6	12 17	3 29.33	- 1 3.9	1.929	2.757	13.2	21.0
12 27	3 19.71	+20 6.5	1.672	2.486	15.5	19.8	12 27	3 25.03	- 0 39.7	2.021	2.763	15.7	21.2
<b>241804</b>	2001 <i>QW</i> <sub>282</sub>		11 21.5 51°79	6°1/23.9	18		<b>420707</b>	2012 <i>LD</i> <sub>16</sub>		11 21.5 179°21	0°7/21.1	17	
10 18	4 21.91	+33 28.5	1.647	2.449	16.9	20.1	10 18	4 11.94	+18 37.8	2.814	3.637	10.1	22.2
10 28	4 15.36	+34 35.3	1.593	2.469	13.5	20.0	10 28	4 6.68	+18 21.1	2.734	3.638	7.5	22.0
11 7	4 5.75	+35 26.3	1.559	2.490	9.9	19.8	11 7	3 59.93	+18 1.0	2.679	3.638	4.6	21.8
11 17	3 54.07	+35 56.5	1.551	2.511	6.9	19.7	11 17	3 52.21	+17 38.5	2.653	3.638	1.5	21.6
11 27	3 41.88	+36 4.1	1.570	2.532	6.3	19.7	11 27	3 44.22	+17 15.6	2.658	3.638	2.0	21.7
12 7	3 30.79	+35 51.9	1.615	2.553	8.5	19.9	12 7	3 36.69	+16 54.6	2.694	3.638	5.1	21.9
12 17	3 22.14	+35 26.3	1.687	2.575	11.7	20.1	12 17	3 30.25	+16 37.8	2.758	3.638	8.0	22.1
12 27	3 16.72	+34 55.1	1.781	2.596	14.7	20.3	12 27	3 25.40	+16 27.0	2.848	3.637	10.5	22.2
<b>267964</b>	2004 <i>FK</i> <sub>55</sub>		11 21.5 143°75	2°5/22.6	18		<b>418726</b>	2008 <i>UN</i> <sub>106</sub>		11 21.5 176°85	4°5/24.0	17	
10 18	4 20.43	+26 47.8	1.717	2.536	15.6	20.9	10 18	4 17.10	+34 37.2	2.585	3.362	12.1	21.4
10 28	4 14.00	+27 0.4	1.646	2.543	12.0	20.6	10 28	4 11.00	+35 15.6	2.501	3.362	9.8	21.3
11 7	4 4.81	+27 1.5	1.598	2.550	7.9	20.4	11 7	4 2.81	+35 42.4	2.441	3.363	7.3	21.1
11 17	3 53.77	+26 49.8	1.576	2.556	3.7	20.2	11 17	3 53.17	+35 54.9	2.408	3.363	5.1	21.0
11 27	3 42.23	+26 26.3	1.582	2.562	3.3	20.2	11 27	3 43.04	+35 52.4	2.404	3.363	4.7	20.9
12 7	3 31.62	+25 54.8	1.616	2.567	7.3	20.4	12 7	3 33.45	+35 36.5	2.430	3.363	6.3	21.0
12 17	3 23.12	+25 20.9	1.678	2.572	11.4	20.7	12 17	3 25.31	+35 10.8	2.483	3.363	8.7	21.2
12 27	3 17.52	+24 50.5	1.762	2.576	14.9	20.9	12 27	3 19.32	+34 40.3	2.562	3.363	11.2	21.4
<b>257487</b>	1995 <i>SQ</i> <sub>24</sub>		11 21.5 6°41	0°0/21.5	18		<b>256874</b>	2008 <i>DD</i> <sub>17</sub>		11 21.5 288°71	1°9/22.4	17	
10 18	4 14.09	+20 30.6	1.884	2.720	13.8	20.9	10 18	4 15.20	+25 50.1	1.954	2.777	13.9	20.9
10 28	4 8.98	+20 25.8	1.810	2.720	10.3	20.7	10 28	4 9.93	+25 55.3	1.870	2.770	10.6	20.6
11 7	4 1.63	+20 15.2	1.759	2.720	6.3	20.5	11 7	4 2.30	+25 50.9	1.810	2.763	6.9	20.4
11 17	3 52.76	+19 59.7	1.735	2.721	2.0	20.2	11 17	3 53.04	+25 36.3	1.775	2.757	3.1	20.2
11 27	3 43.45	+19 41.4	1.739	2.722	2.5	20.2	11 27	3 43.22	+25 12.6	1.770	2.751	2.8	20.1
12 7	3 34.83	+19 23.4	1.772	2.723	6.8	20.5	12 7	3 34.05	+24 43.2	1.793	2.744	6.6	20.4
12 17	3 27.88	+19 9.0	1.832	2.724	10.7	20.8	12 17	3 26.57	+24 12.4	1.843	2.738	10.4	20.6
12 27	3 23.30	+19 1.4	1.915	2.725	14.0	21.0	12 27	3 21.54	+23 45.2	1.916	2.732	13.8	20.8
<b>280911</b>	2005 <i>YJ</i> <sub>60</sub>		11 21.5 11°31	0°3/21.4	18		<b>321577</b>	2009 <i>TA</i> <sub>27</sub>		11 21.5 19°34	5°4/18.4	18	
10 18	4 13.55	+19 45.8	1.117	1.985	18.9	19.6	10 18	4 10.58	+ 8 8.6	1.874	2.720	13.4	19.7
10 28	4 9.73	+19 47.7	1.061	1.987	14.2	19.3	10 28	4 6.17	+ 7 0.1	1.813	2.724	10.3	19.5
11 7	4 2.57	+19 42.8	1.025	1.991	8.7	19.0	11 7	3 59.81	+ 5 54.3	1.776	2.728	7.2	19.4
11 17	3 53.12	+19 32.2	1.010	1.997	2.7	18.7	11 17	3 52.20	+ 4 56.6	1.766	2.733	5.4	19.3
11 27	3 43.06	+19 18.8	1.021	2.004	3.4	18.8	11 27	3 44.30	+ 4 12.3	1.783	2.738	6.5	19.3
12 7	3 34.18	+19 7.2	1.055	2.012	9.3	19.2	12 7	3 37.09	+ 3 45.0	1.827	2.744	9.3	19.5
12 17	3 27.90	+19 1.9	1.112	2.021	14.4	19.5	12 17	3 31.39	+ 3 36.4	1.896	2.750	12.3	19.7
12 27	3 25.07	+19 6.5	1.189	2.032	18.8	19.8	12 27	3 27.79	+ 3 45.8	1.987	2.756	15.1	19.9
<b>448552</b>	2010 <i>RZ</i> <sub>91</sub>		11 21.5 83°79	3°1/23.2	17		<b>170508</b>	2003 <i>WC</i> <sub>32</sub>		11 21.5 32°16	2°0/22.1	18	
10 18	4 16.62	+29 51.1	1.963	2.772	14.3	21.6	10 18	4 19.48	+23 10.0	1.688	2.516	15.4	20.0
10 28	4 10.81	+29 52.9	1.896	2.785	11.1	21.4	10 28	4 13.42	+23 52.6	1.615	2.518	11.8	19.8
11 7	4 2.68	+29 41.6	1.851	2.797	7.5	21.2	11 7	4 4.58	+24 29.0	1.565	2.521	7.5	19.5
11 17	3 53.07	+29 16.5	1.833	2.809	4.1	21.0	11 17	3 53.78	+24 57.1	1.541	2.523	3.2	19.3
11 27	3 43.13	+28 39.0	1.844	2.821	3.5	21.0	11 27	3 42.33	+25 15.9	1.545	2.526	3.1	19.3
12 7	3 34.06	+27 53.4	1.883	2.833	6.5	21.2	12 7	3 31.65	+25 27.0	1.578	2.529	7.4	19.5
12 17	3 26.82	+27 5.0	1.950	2.845	10.0	21.5	12 17	3 23.00	+25 33.7	1.637	2.532	11.5	19.8
12 27	3 22.07	+26 19.6	2.041	2.856	13.1	21.7	12 27	3 17.24	+25 40.2	1.720	2.535	15.1	20.0
<b>163864</b>	2003 <i>SN</i> <sub>102</sub>		11 21.5 153°27	5°9/24.9	18		<b>304211</b>						

EPHEMERIDES

11 21.5

11 21.5

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>294581</b>	2007 YB <sub>62</sub>		11 21.5 296°44	1°3/20.9	17		<b>436583</b>	2011 HW <sub>100</sub>		11 21.5 64°66	2°5/22.7	18	
10 18	4 14.99	+16 51.7	1.855	2.693	13.8	21.3	10 18	4 22.03	+27 28.8	1.507	2.330	17.2	20.3
10 28	4 9.74	+16 45.1	1.775	2.687	10.4	21.1	10 28	4 15.01	+27 28.6	1.466	2.365	13.1	20.2
11 7	4 2.17	+16 35.8	1.719	2.681	6.4	20.8	11 7	4 5.24	+27 14.5	1.447	2.399	8.4	20.0
11 17	3 53.00	+16 25.2	1.689	2.675	2.2	20.5	11 17	3 53.89	+26 46.3	1.453	2.434	3.9	19.8
11 27	3 43.31	+16 15.4	1.689	2.669	3.1	20.6	11 27	3 42.48	+26 6.8	1.487	2.468	3.3	19.9
12 7	3 34.25	+16 9.3	1.716	2.663	7.3	20.8	12 7	3 32.47	+25 21.6	1.549	2.501	7.4	20.2
12 17	3 26.84	+16 9.4	1.770	2.657	11.3	21.1	12 17	3 24.92	+24 37.3	1.638	2.535	11.4	20.5
12 27	3 21.84	+16 17.9	1.847	2.652	14.7	21.3	12 27	3 20.40	+23 59.5	1.749	2.568	14.8	20.8
<b>209353</b>	2004 DF <sub>18</sub>		11 21.5 179°81	5°4/18.1	18		<b>371306</b>	2006 FG <sub>26</sub>		11 21.5 238°43	2°5/23.0	18	
10 18	4 12.86	+7 1.3	2.081	2.916	12.7	20.6	10 18	4 15.10	+29 3.3	2.848	3.643	10.7	21.5
10 28	4 7.71	+5 48.7	2.013	2.917	9.8	20.4	10 28	4 9.30	+29 19.2	2.748	3.629	8.4	21.3
11 7	4 0.70	+4 38.7	1.971	2.917	7.0	20.2	11 7	4 1.71	+29 26.6	2.673	3.614	5.7	21.1
11 17	3 52.49	+3 36.8	1.955	2.917	5.5	20.1	11 17	3 52.86	+29 24.6	2.626	3.600	3.2	20.9
11 27	3 43.98	+2 47.9	1.969	2.917	6.5	20.2	11 27	3 43.54	+29 13.2	2.610	3.585	2.8	20.9
12 7	3 36.09	+2 15.9	2.010	2.917	9.1	20.4	12 7	3 34.61	+28 54.1	2.624	3.569	5.2	21.0
12 17	3 29.61	+2 2.2	2.077	2.917	12.0	20.5	12 17	3 26.84	+28 30.3	2.668	3.553	8.0	21.1
12 27	3 25.14	+2 6.7	2.166	2.916	14.5	20.7	12 27	3 20.88	+28 5.6	2.737	3.537	10.5	21.3
<b>515539</b>	2014 GO <sub>37</sub>		11 21.5 210°15	0°8/21.1	18		<b>326493</b>	2002 GG <sub>173</sub>		11 21.5 231°29	1°8/20.8	18	
10 18	4 16.97	+18 24.6	2.291	3.113	12.1	23.4	10 18	4 18.43	+17 9.3	1.528	2.371	16.0	20.9
10 28	4 10.82	+18 13.9	2.202	3.106	9.1	23.2	10 28	4 12.76	+16 45.4	1.451	2.364	12.1	20.6
11 7	4 2.67	+17 59.3	2.139	3.098	5.6	23.0	11 7	4 4.24	+16 16.7	1.395	2.358	7.5	20.3
11 17	3 53.14	+17 41.7	2.104	3.090	1.8	22.7	11 17	3 53.72	+15 45.4	1.366	2.351	2.7	20.0
11 27	3 43.16	+17 23.1	2.100	3.081	2.5	22.7	11 27	3 42.54	+15 15.4	1.364	2.344	3.8	20.1
12 7	3 33.70	+17 6.1	2.126	3.071	6.3	23.0	12 7	3 32.17	+14 51.3	1.390	2.336	8.7	20.4
12 17	3 25.64	+16 53.6	2.181	3.061	9.8	23.2	12 17	3 23.88	+14 37.1	1.441	2.328	13.3	20.6
12 27	3 19.66	+16 48.0	2.260	3.050	12.8	23.3	12 27	3 18.55	+14 35.7	1.513	2.320	17.3	20.8
<b>166304</b>	2002 JU <sub>16</sub>		11 21.5 140°60	2°3/20.6	18		<b>265912</b>	2006 BB <sub>87</sub>		11 21.5 191°86	2°1/22.9	17	
10 18	4 18.23	+13 19.8	2.052	2.880	13.1	20.5	10 18	4 14.26	+28 2.8	2.706	3.507	11.0	21.9
10 28	4 11.75	+13 16.0	1.984	2.890	9.8	20.3	10 28	4 8.61	+28 4.7	2.619	3.506	8.5	21.7
11 7	4 3.19	+13 12.5	1.941	2.899	6.1	20.1	11 7	4 1.23	+27 57.7	2.558	3.504	5.6	21.5
11 17	3 53.28	+13 11.0	1.925	2.907	2.7	19.9	11 17	3 52.69	+27 41.5	2.524	3.502	2.9	21.3
11 27	3 43.03	+13 13.3	1.940	2.915	3.5	20.0	11 27	3 43.79	+27 17.0	2.521	3.500	2.5	21.3
12 7	3 33.50	+13 21.1	1.984	2.923	7.1	20.2	12 7	3 35.41	+26 46.5	2.549	3.497	5.1	21.5
12 17	3 25.55	+13 35.8	2.056	2.930	10.6	20.5	12 17	3 28.27	+26 13.6	2.605	3.494	8.0	21.7
12 27	3 19.84	+13 58.4	2.152	2.937	13.5	20.7	12 27	3 22.97	+25 41.9	2.688	3.490	10.6	21.8
<b>78341</b>	2002 PA <sub>90</sub>		11 21.5 193°49	3°7/23.9	18		<b>255970</b>	2006 TG <sub>46</sub>		11 21.5 103°86	1°5/20.6	18	
10 18	4 17.48	+33 17.0	2.079	2.873	14.1	19.4	10 18	4 14.77	+18 13.0	2.069	2.901	12.9	21.2
10 28	4 11.51	+33 2.7	1.995	2.872	11.2	19.2	10 28	4 9.10	+17 28.9	2.007	2.916	9.5	21.1
11 7	4 3.18	+32 32.0	1.934	2.871	7.9	19.0	11 7	4 1.51	+16 39.8	1.970	2.930	5.8	20.9
11 17	3 53.30	+31 44.0	1.899	2.869	4.7	18.8	11 17	3 52.75	+15 48.7	1.960	2.945	2.1	20.7
11 27	3 43.01	+30 40.5	1.893	2.867	4.0	18.7	11 27	3 43.79	+14 59.4	1.981	2.959	3.0	20.7
12 7	3 33.54	+29 26.4	1.917	2.865	6.6	18.9	12 7	3 35.60	+14 16.0	2.031	2.973	6.7	21.0
12 17	3 25.88	+28 8.4	1.969	2.862	10.0	19.1	12 17	3 28.96	+13 41.9	2.108	2.987	10.1	21.2
12 27	3 20.73	+26 53.6	2.046	2.859	13.1	19.3	12 27	3 24.45	+13 19.4	2.209	3.000	13.0	21.5
<b>363167</b>	2001 ST <sub>354</sub>		11 21.5 9°33	1°5/21.1	17		<b>356075</b>	2009 DV <sub>92</sub>		11 21.5 236°15	2°3/20.2	18	
10 18	4 17.48	+14 40.7	1.751	2.588	14.6	21.1	10 18	4 15.10	+14 10.7	2.334	3.162	11.7	22.1
10 28	4 11.67	+15 4.6	1.678	2.589	10.9	20.9	10 28	4 9.41	+13 42.9	2.241	3.147	8.8	21.8
11 7	4 3.39	+15 29.5	1.629	2.590	6.7	20.6	11 7	4 1.82	+13 13.3	2.174	3.132	5.6	21.6
11 17	3 53.40	+15 55.7	1.607	2.591	2.4	20.4	11 17	3 52.91	+12 44.2	2.135	3.116	2.6	21.4
11 27	3 42.86	+16 23.6	1.613	2.593	3.2	20.4	11 27	3 43.53	+12 18.5	2.126	3.100	3.5	21.4
12 7	3 33.03	+16 54.1	1.648	2.595	7.5	20.7	12 7	3 34.60	+11 59.1	2.147	3.083	6.8	21.6
12 17	3 25.00	+17 28.0	1.709	2.597	11.5	20.9	12 17	3 26.96	+11 48.3	2.196	3.065	10.2	21.8
12 27	3 19.55	+18 6.7	1.794	2.600	15.0	21.2	12 27	3 21.28	+11 47.9	2.269	3.047	13.1	22.0
<b>328019</b>	2007 JP <sub>8</sub>		11 21.5 312°03	1°5/20.5	17		<b>265090</b>	2003 SK <sub>274</sub>		11 21.5 190°22	2°3/20.0	18	
10 18	4 11.70	+19 41.2	2.068	2.904	12.7	20.8	10 18	4 11.46	+14 57.1	2.434	3.266	11.1	20.7
10 28	4 7.00	+18 37.8	1.986	2.897	9.5	20.6	10 28	4 6.51	+14 12.2	2.357	3.266	8.3	20.5
11 7	4 0.34	+17 26.3	1.929	2.891	5.8	20.4	11 7	3 59.91	+13 24.9	2.306	3.265	5.2	20.3
11 17	3 52.40	+16 10.1	1.899	2.884	2.1	20.1	11 17	3 52.27	+12 37.9	2.283	3.264	2.5	20.1
11 27	3 44.10	+14 54.2	1.899	2.878	3.1	20.2	11 27	3 44.34	+11 54.6	2.290	3.264	3.4	20.2
12 7	3 36.43	+13 44.1	1.929	2.872	6.9	20.4	12 7	3 36.94	+11 18.5	2.327	3.263	6.4	20.4
12 17	3 30.22	+12 44.8	1.986	2.866	10.6	20.6	12 17	3 30.76	+10 52.0	2.392	3.261	9.5	20.6
12 27	3 26.10	+11 59.6	2.066	2.860	13.7	20.8	12 27	3 26.35	+10 36.8	2.481	3.260	12.1	20.8
<b>317114</b>	2001 TT <sub>226</sub>		11 21.5 5°24	5°5/20.4	17		<b>46154</b>	2001 FL <sub>70</sub>		11 21.5 180°98	1°8/20.4	18	
10 18	4 12.71	+7 18.3	1.199	2.066	18.0	19.5	10 18	4 12.02	+15 2.0	2.767	3.592	10.1	19.7
10 28	4 8.80	+7 22.4	1.144	2.066	13.8	19.3	10 28	4 6.75	+14 35.7	2.688	3.593	7.6	19.6
11 7	4 1.90	+7 36.4	1.108	2.068	9.3	19.0	11 7	3 59.99	+14 7.7	2.635	3.593	4.7	19.4
11 17	3 52.96	+8 3.4	1.094	2.071	5.8	18.8	11 17	3 52.29	+13 39.9	2.611	3.593	2.1	19.2
11 27	3 43.45	+8 45.7	1.106	2.077	6.7	18.9	11 27	3 44.32	+13 14.6	2.618	3.593	2.8	19.3
12 7	3 34.94	+9 43.0	1.142	2.084	10.7	19.2	12 7	3 36.80	+12 54.2	2.655	3.592	5.6	19.5
12 17	3 28.71	+10 53.2	1.200	2.093	15.0	19.4	12 17	3 30.38	+12 40.6	2.721	3.591	8.4	19.6
12 27	3 25.59	+12 13.5	1.279	2.103	18.8	19.7	12 27	3 25.54	+12 35.3	2.812	3.590	10.9	19.8
<b>265873</b>	2005 YL <sub>229</sub>		11 21.5 222°63	7°3/17.0	18		<b>447148</b>	2005 GY <sub>77</sub>		11 21.5 283°68	1°5/21.1	18	
10 18	4 12.42	-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>434976</b>	2006 <i>UP</i> <sub>122</sub>	11 21.5 332°37		2°6/20.5 18			<b>227363</b>	2005 <i>UB</i> <sub>160</sub>	11 21.5 348°60		1°2/21.9 18		
10 18	4 14.37	+17 6.1	1.251	2.113	17.7	21.6	10 18	4 18.48	+21 36.8	1.377	2.222	17.4	19.9
10 28	4 10.17	+16 24.7	1.181	2.105	13.3	21.4	10 28	4 13.22	+22 6.5	1.306	2.219	13.2	19.7
11 7	4 2.84	+15 36.7	1.132	2.098	8.3	21.1	11 7	4 4.74	+22 30.1	1.256	2.217	8.3	19.4
11 17	3 53.31	+14 46.2	1.106	2.091	3.3	20.7	11 17	3 53.97	+22 46.1	1.230	2.215	3.0	19.1
11 27	3 43.08	+13 59.2	1.106	2.085	4.7	20.8	11 27	3 42.38	+22 54.6	1.231	2.213	3.1	19.1
12 7	3 33.80	+13 22.1	1.131	2.080	9.9	21.1	12 7	3 31.71	+22 58.0	1.258	2.212	8.4	19.4
12 17	3 26.85	+13 0.1	1.179	2.075	15.0	21.4	12 17	3 23.38	+23 0.2	1.309	2.211	13.3	19.7
12 27	3 23.15	+12 55.8	1.247	2.070	19.2	21.6	12 27	3 18.39	+23 5.9	1.382	2.211	17.4	19.9
<b>579</b>	<i>Sidonia</i>	11 21.5 97°27		2°2/20.5 18			<b>156356</b>	2001 <i>XU</i> <sub>207</sub>	11 21.5 17°34		3°7/20.2 18		
10 18	4 14.68	+13 18.9	2.205	3.037	12.2	12.7	10 18	4 13.28	+14 13.5	1.172	2.040	18.2	19.2
10 28	4 9.02	+13 13.8	2.137	3.044	9.1	12.5	10 28	4 9.25	+13 34.2	1.119	2.045	13.6	19.0
11 7	4 1.51	+13 9.1	2.093	3.052	5.7	12.3	11 7	4 2.18	+12 53.1	1.086	2.052	8.6	18.7
11 17	3 52.78	+13 6.3	2.077	3.059	2.6	12.1	11 17	3 53.09	+12 15.3	1.076	2.059	4.2	18.5
11 27	3 43.75	+13 7.3	2.091	3.067	3.3	12.2	11 27	3 43.54	+11 46.5	1.091	2.067	5.5	18.6
12 7	3 35.33	+13 13.9	2.134	3.074	6.6	12.4	12 7	3 35.12	+11 31.5	1.130	2.077	10.3	18.9
12 17	3 28.31	+13 27.3	2.205	3.081	9.9	12.7	12 17	3 29.09	+11 33.0	1.192	2.087	14.9	19.2
12 27	3 23.29	+13 48.3	2.301	3.088	12.7	12.9	12 27	3 26.22	+11 51.3	1.273	2.098	18.9	19.5
<b>195758</b>	2002 <i>PQ</i> <sub>106</sub>	11 21.5 66°71		1°2/22.3 18			<b>388214</b>	2006 <i>HW</i> <sub>17</sub>	11 21.5 121°95		3°5/20.2 18		
10 18	4 12.84	+25 44.1	2.257	3.076	12.4	20.3	10 18	4 18.37	+ 9 44.0	2.029	2.857	13.2	20.6
10 28	4 7.71	+25 21.2	2.184	3.083	9.4	20.2	10 28	4 11.81	+ 9 35.9	1.967	2.871	10.0	20.4
11 7	4 0.71	+24 48.8	2.136	3.091	5.9	20.0	11 7	4 3.23	+ 9 31.1	1.930	2.884	6.5	20.2
11 17	3 52.53	+24 7.7	2.115	3.099	2.3	19.7	11 17	3 53.36	+ 9 31.6	1.920	2.897	3.7	20.1
11 27	3 44.08	+23 20.5	2.124	3.106	2.2	19.7	11 27	3 43.21	+ 9 39.7	1.940	2.909	4.5	20.2
12 7	3 36.29	+22 31.1	2.163	3.114	5.7	20.0	12 7	3 33.81	+ 9 56.4	1.990	2.921	7.6	20.4
12 17	3 29.97	+21 44.0	2.230	3.122	9.0	20.2	12 17	3 26.01	+10 22.5	2.067	2.933	10.9	20.6
12 27	3 25.68	+21 2.9	2.321	3.130	11.9	20.4	12 27	3 20.42	+10 57.6	2.167	2.944	13.7	20.8
<b>401303</b>	2012 <i>UR</i> <sub>127</sub>	11 21.5 47°65		17°6/11.1 18			<b>50250</b>	<i>Daveharrington</i>	11 21.5 347°52		0°7/21.2 18		
10 18	4 15.14	- 4 56.1	0.942	1.802	22.2	20.0	10 18	4 14.67	+19 52.0	1.719	2.559	14.7	19.2
10 28	4 10.84	- 8 51.3	0.915	1.809	19.4	19.9	10 28	4 9.64	+19 30.5	1.645	2.557	11.0	19.0
11 7	4 3.15	-12 21.4	0.908	1.816	17.7	19.8	11 7	4 2.18	+19 2.3	1.594	2.556	6.7	18.8
11 17	3 53.34	-15 5.2	0.921	1.824	17.9	19.9	11 17	3 53.09	+18 29.2	1.569	2.555	2.1	18.5
11 27	3 43.20	-16 48.0	0.954	1.832	19.6	20.0	11 27	3 43.52	+17 54.6	1.573	2.554	2.9	18.5
12 7	3 34.52	-17 27.4	1.005	1.841	22.1	20.2	12 7	3 34.72	+17 22.7	1.604	2.554	7.4	18.8
12 17	3 28.57	-17 9.7	1.070	1.850	24.6	20.4	12 17	3 27.73	+16 57.8	1.661	2.553	11.6	19.0
12 27	3 26.08	-16 6.6	1.146	1.859	26.8	20.7	12 27	3 23.29	+16 43.0	1.741	2.553	15.1	19.3
<b>454624</b>	2014 <i>QG</i> <sub>130</sub>	11 21.5 87°65		0°6/21.2 17			<b>457776</b>	2009 <i>NE</i> <sub>2</sub>	11 21.5 54°98		5°2/24.5 17		
10 18	4 13.59	+19 33.7	2.168	2.998	12.4	21.9	10 18	4 17.15	+35 15.9	1.919	2.712	15.2	21.0
10 28	4 8.27	+19 15.2	2.100	3.007	9.2	21.7	10 28	4 11.46	+35 33.1	1.855	2.726	12.2	20.9
11 7	4 1.06	+18 51.7	2.055	3.016	5.6	21.5	11 7	4 3.24	+35 33.5	1.813	2.741	8.9	20.7
11 17	3 52.64	+18 24.7	2.039	3.024	1.8	21.3	11 17	3 53.40	+35 14.7	1.796	2.756	6.1	20.5
11 27	3 43.94	+17 56.8	2.052	3.033	2.4	21.3	11 27	3 43.22	+34 37.5	1.806	2.771	5.3	20.5
12 7	3 35.90	+17 31.1	2.094	3.041	6.1	21.6	12 7	3 33.99	+33 46.1	1.844	2.787	7.3	20.7
12 17	3 29.31	+17 10.5	2.164	3.050	9.6	21.8	12 17	3 26.76	+32 47.0	1.910	2.802	10.3	20.9
12 27	3 24.78	+16 57.7	2.258	3.058	12.5	22.0	12 27	3 22.22	+31 47.3	1.999	2.818	13.2	21.1
<b>432973</b>	2012 <i>LQ</i> <sub>17</sub>	11 21.5 225°02		4°0/19.8 17			<b>438903</b>	2009 <i>WM</i> <sub>119</sub>	11 21.5 198°88		0°2/21.6 18		
10 18	4 17.83	+12 15.6	1.616	2.458	15.4	21.6	10 18	4 19.65	+19 55.2	1.625	2.460	15.6	21.3
10 28	4 12.11	+11 34.2	1.539	2.451	11.6	21.4	10 28	4 13.60	+20 10.9	1.550	2.459	11.8	21.0
11 7	4 3.76	+10 52.0	1.485	2.444	7.6	21.1	11 7	4 4.76	+20 21.8	1.498	2.458	7.3	20.8
11 17	3 53.59	+10 13.2	1.457	2.436	4.2	20.9	11 17	3 53.96	+20 27.7	1.471	2.457	2.4	20.5
11 27	3 42.83	+ 9 42.5	1.457	2.428	5.4	21.0	11 27	3 42.51	+20 29.4	1.473	2.456	2.8	20.5
12 7	3 32.82	+ 9 24.4	1.485	2.420	9.4	21.2	12 7	3 31.86	+20 29.3	1.503	2.454	7.7	20.8
12 17	3 24.73	+ 9 21.3	1.538	2.411	13.5	21.4	12 17	3 23.25	+20 30.9	1.560	2.453	12.1	21.0
12 27	3 19.36	+ 9 34.2	1.612	2.401	17.1	21.6	12 27	3 17.54	+20 37.6	1.638	2.451	15.9	21.3
<b>46548</b>	1989 <i>SK</i> <sub>1</sub>	11 21.5 57°90		0°1/21.6 18			<b>227193</b>	2005 <i>QS</i> <sub>70</sub>	11 21.5 1°40		2°3/20.7 18		
10 18	4 18.35	+20 34.2	1.567	2.405	15.9	18.6	10 18	4 10.64	+17 21.7	1.021	1.900	19.4	19.3
10 28	4 12.30	+20 38.0	1.517	2.428	11.9	18.5	10 28	4 7.82	+16 52.4	0.964	1.896	14.6	19.0
11 7	4 3.68	+20 35.5	1.490	2.452	7.2	18.2	11 7	4 1.59	+16 17.0	0.926	1.895	9.0	18.7
11 17	3 53.49	+20 27.2	1.489	2.475	2.3	18.0	11 17	3 52.99	+15 39.6	0.909	1.895	3.4	18.4
11 27	3 43.05	+20 15.3	1.516	2.499	2.7	18.1	11 27	3 43.71	+15 6.2	0.916	1.897	4.7	18.5
12 7	3 33.71	+20 3.1	1.571	2.523	7.3	18.4	12 7	3 35.59	+14 43.0	0.945	1.900	10.4	18.8
12 17	3 26.49	+19 54.2	1.652	2.547	11.5	18.7	12 17	3 30.07	+14 34.5	0.996	1.905	15.7	19.1
12 27	3 22.06	+19 51.9	1.755	2.571	14.9	19.0	12 27	3 28.06	+14 42.7	1.065	1.912	20.2	19.5
<b>37393</b>	2001 <i>XF</i> <sub>24</sub>	11 21.5 89°06		0°5/21.7 18			<b>106151</b>	2000 <i>TR</i> <sub>56</sub>	11 21.5 357°74		2°5/20.7 18 R		
10 18	4 23.97	+20 58.6	1.348	2.186	18.1	18.1	10 18	4 14.01	+16 44.2	1.044	1.917	19.5	19.2
10 28	4 16.89	+21 12.7	1.297	2.207	13.5	17.9	10 28	4 10.35	+16 18.7	0.984	1.914	14.7	18.9
11 7	4 6.67	+21 19.4	1.268	2.229	8.3	17.6	11 7	4 3.16	+15 48.2	0.944	1.911	9.1	18.6
11 17	3 54.46	+21 18.4	1.265	2.250	2.7	17.4	11 17	3 53.50	+15 16.4	0.924	1.910	3.5	18.3
11 27	3 41.92	+21 11.2	1.288	2.271	3.0	17.4	11 27	3 43.10	+14 48.8	0.929	1.910	4.8	18.4
12 7	3 30.73	+21 1.5	1.339	2.291	8.3	17.8	12 7	3 33.87	+14 31.1	0.957	1.910	10.6	18.7
12 17	3 22.16	+20 53.9	1.415	2.311	12.9	18.1	12 17	3 27.31	+14 27.6	1.007	1.912	16.0	19.0
12 27	3 16.96	+20 52.6	1.513	2.330	16.8	18.4	12 27	3 24.38	+14 40.3	1.075	1.915	20.5	19.3
<b>116293</b>	2003 <i>YU</i> <sub>57</sub>	11 21.5 23°16		0°2/21.4 18			<b>171355</b>	2006 <i>K7</i> <sub>68</sub>	11 21.5 167°85		5°4/18.3 18		
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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>179071</b>	2001 <i>SF</i> <sub>122</sub>		11 21.5 48°41'	0°1'/21.5 18			<b>247275</b>	2001 <i>SH</i> <sub>119</sub>		11 21.6 76°41'	2°2'/22.8 18		
10 18	4 14.26	+22 1.4	1.793	2.629	14.4	20.0	10 18	4 16.01	+27 44.6	1.885	2.703	14.5	20.3
10 28	4 9.18	+21 31.4	1.725	2.635	10.7	19.8	10 28	4 10.48	+27 33.1	1.817	2.713	11.1	20.2
11 7	4 1.82	+20 52.7	1.680	2.641	6.6	19.5	11 7	4 2.61	+27 9.1	1.771	2.723	7.2	19.9
11 17	3 52.98	+20 7.3	1.661	2.647	2.1	19.3	11 17	3 53.25	+26 32.9	1.753	2.733	3.4	19.7
11 27	3 43.79	+19 18.9	1.671	2.653	2.5	19.3	11 27	3 43.56	+25 46.9	1.762	2.743	2.9	19.7
12 7	3 35.42	+18 32.3	1.709	2.660	6.9	19.6	12 7	3 34.73	+24 55.6	1.801	2.753	6.5	20.0
12 17	3 28.82	+17 52.2	1.774	2.667	10.9	19.9	12 17	3 27.73	+24 4.7	1.867	2.763	10.3	20.2
12 27	3 24.66	+17 22.3	1.862	2.673	14.3	20.1	12 27	3 23.23	+23 19.5	1.956	2.773	13.5	20.5
<b>241829</b>	2001 <i>SP</i> <sub>220</sub>		11 21.5 36°55'	3°4'/19.9 18			<b>3042</b>	Zelinsky		11 21.6 99°20'	0°8'/21.2 18		
10 18	4 13.40	+13 14.3	1.723	2.570	14.3	20.4	10 18	4 20.67	+20 52.7	1.545	2.380	16.3	17.6
10 28	4 8.52	+12 32.9	1.661	2.576	10.7	20.2	10 28	4 14.01	+20 13.1	1.492	2.402	12.1	17.4
11 7	4 1.40	+11 50.6	1.621	2.582	6.8	20.0	11 7	4 4.75	+19 25.0	1.462	2.423	7.4	17.2
11 17	3 52.85	+11 11.4	1.608	2.588	3.6	19.8	11 17	3 53.91	+18 31.2	1.459	2.445	2.3	16.9
11 27	3 43.96	+10 39.4	1.623	2.595	4.7	19.9	11 27	3 42.89	+17 36.4	1.484	2.465	3.1	17.0
12 7	3 35.86	+10 18.6	1.665	2.602	8.4	20.2	12 7	3 33.06	+16 46.5	1.537	2.485	7.8	17.4
12 17	3 29.48	+10 11.1	1.732	2.609	12.0	20.4	12 17	3 25.46	+16 6.4	1.616	2.505	12.1	17.7
12 27	3 25.47	+10 17.8	1.822	2.617	15.2	20.6	12 27	3 20.71	+15 39.7	1.718	2.523	15.6	17.9
<b>32004</b>	2000 <i>HR</i> <sub>51</sub>		11 21.5 136°35'	0°9'/21.1 18			<b>383414</b>	2006 <i>UV</i> <sub>211</sub>		11 21.6 43°45'	1°3'/22.2 18		
10 18	4 18.52	+19 6.6	1.949	2.776	13.7	19.7	10 18	4 17.13	+25 36.6	1.189	2.039	19.2	20.5
10 28	4 12.08	+18 40.4	1.883	2.789	10.2	19.5	10 28	4 12.23	+25 8.2	1.137	2.052	14.5	20.3
11 7	4 3.47	+18 8.7	1.841	2.801	6.2	19.2	11 7	4 4.03	+24 24.1	1.105	2.066	9.1	20.0
11 17	3 53.49	+17 33.4	1.828	2.813	2.0	19.0	11 17	3 53.74	+23 26.0	1.095	2.080	3.4	19.7
11 27	3 43.22	+16 57.6	1.844	2.824	2.8	19.1	11 27	3 43.09	+22 19.3	1.112	2.095	3.2	19.8
12 7	3 33.78	+16 25.2	1.889	2.835	6.9	19.4	12 7	3 33.82	+21 12.4	1.154	2.110	8.7	20.1
12 17	3 26.08	+15 59.7	1.962	2.845	10.6	19.6	12 17	3 27.23	+20 13.4	1.219	2.126	13.7	20.5
12 27	3 20.76	+15 43.9	2.059	2.854	13.7	19.8	12 27	3 24.04	+19 28.5	1.306	2.142	17.8	20.8
<b>522014</b>	2015 <i>XA</i> <sub>238</sub>		11 21.5 163°30'	0°5'/21.3 18			<b>390812</b>	2004 <i>JQ</i> <sub>6</sub>		11 21.6 48°97'	4°2'/23.3 17		
10 18	4 13.68	+19 14.7	2.603	3.425	10.8	21.6	10 18	4 27.47	+29 30.7	1.638	2.442	16.9	19.8
10 28	4 8.13	+19 3.7	2.526	3.429	8.1	21.5	10 28	4 18.90	+30 22.4	1.610	2.493	13.0	19.7
11 7	4 0.94	+18 48.9	2.473	3.432	4.9	21.3	11 7	4 7.59	+30 59.0	1.604	2.545	8.8	19.6
11 17	3 52.69	+18 31.1	2.450	3.435	1.6	21.0	11 17	3 54.76	+31 17.6	1.625	2.596	5.1	19.5
11 27	3 44.14	+18 12.2	2.457	3.438	2.0	21.1	11 27	3 41.97	+31 18.4	1.674	2.647	4.5	19.5
12 7	3 36.10	+17 54.5	2.495	3.441	5.4	21.3	12 7	3 30.67	+31 5.4	1.752	2.697	7.4	19.8
12 17	3 29.27	+17 40.3	2.561	3.443	8.4	21.5	12 17	3 21.93	+30 44.6	1.858	2.747	10.7	20.1
12 27	3 24.20	+17 31.9	2.653	3.445	11.1	21.7	12 27	3 16.29	+30 22.6	1.987	2.796	13.6	20.4
<b>50720</b>	2000 <i>EM</i> <sub>140</sub>		11 21.6 45°70'	0°5'/21.8 18			<b>23590</b>	1995 <i>UD</i> <sub>34</sub>		11 21.6 344°72'	1°3'/21.1 18		
10 18	4 15.51	+22 35.6	1.626	2.464	15.5	19.3	10 18	4 15.12	+17 18.6	1.478	2.329	16.1	19.2
10 28	4 10.34	+22 22.0	1.562	2.473	11.6	19.0	10 28	4 10.40	+17 13.9	1.406	2.324	12.1	18.9
11 7	4 2.62	+21 59.5	1.521	2.481	7.2	18.8	11 7	4 2.90	+17 5.7	1.355	2.319	7.5	18.6
11 17	3 53.26	+21 29.1	1.505	2.490	2.4	18.5	11 17	3 53.44	+16 55.5	1.329	2.315	2.5	18.3
11 27	3 43.50	+20 53.9	1.517	2.500	2.6	18.6	11 27	3 43.34	+16 46.2	1.330	2.312	3.4	18.4
12 7	3 34.66	+20 18.5	1.557	2.509	7.3	18.9	12 7	3 34.05	+16 40.9	1.358	2.309	8.4	18.7
12 17	3 27.81	+19 47.6	1.622	2.519	11.5	19.2	12 17	3 26.80	+16 42.8	1.411	2.306	13.0	18.9
12 27	3 23.64	+19 25.4	1.710	2.529	15.0	19.4	12 27	3 22.44	+16 54.3	1.484	2.305	16.9	19.2
<b>13834</b>	1999 <i>XU</i> <sub>18</sub>		11 21.6 62°49'	0°6'/21.3 18			<b>26746</b>	2001 <i>HW</i> <sub>46</sub>		11 21.6 93°69'	0°0'/21.5 18		
10 18	4 18.44	+19 8.9	1.528	2.369	16.1	17.6	10 18	4 13.77	+21 4.8	2.475	3.296	11.3	19.6
10 28	4 12.42	+19 3.5	1.478	2.391	12.0	17.4	10 28	4 8.19	+20 52.5	2.411	3.314	8.4	19.4
11 7	4 3.81	+18 52.8	1.450	2.413	7.3	17.2	11 7	4 0.97	+20 35.0	2.373	3.331	5.2	19.2
11 17	3 53.60	+18 38.1	1.448	2.434	2.3	16.9	11 17	3 52.71	+20 13.3	2.363	3.348	1.6	19.0
11 27	3 43.14	+18 22.1	1.474	2.456	2.9	17.0	11 27	3 44.26	+19 49.3	2.383	3.365	1.9	19.1
12 7	3 33.78	+18 8.2	1.528	2.478	7.6	17.3	12 7	3 36.42	+19 25.8	2.433	3.382	5.3	19.3
12 17	3 26.57	+18 0.0	1.607	2.500	11.8	17.6	12 17	3 29.91	+19 5.3	2.512	3.398	8.4	19.5
12 27	3 22.17	+18 0.1	1.709	2.522	15.3	17.9	12 27	3 25.23	+18 50.4	2.616	3.414	11.0	19.7
<b>60872</b>	2000 <i>HE</i> <sub>86</sub>		11 21.6 54°47'	4°8'/19.3 18			<b>248338</b>	2005 <i>QW</i> <sub>82</sub>		11 21.6 49°93'	7°4'/25.5 18		
10 18	4 14.50	+10 15.7	1.633	2.480	15.0	18.6	10 18	4 19.60	+39 49.5	1.849	2.623	16.4	19.9
10 28	4 9.19	+9 17.2	1.589	2.502	11.3	18.4	10 28	4 13.71	+40 34.1	1.783	2.633	13.6	19.7
11 7	4 1.69	+8 21.3	1.568	2.525	7.5	18.2	11 7	4 4.87	+40 59.0	1.737	2.644	10.7	19.6
11 17	3 52.91	+7 33.1	1.574	2.547	4.9	18.1	11 17	3 54.04	+40 59.7	1.715	2.655	8.2	19.5
11 27	3 43.98	+6 57.4	1.607	2.570	6.0	18.2	11 27	3 42.67	+40 35.1	1.719	2.666	7.4	19.4
12 7	3 36.02	+6 37.7	1.666	2.594	9.2	18.5	12 7	3 32.30	+39 48.7	1.750	2.677	8.8	19.6
12 17	3 29.89	+6 35.1	1.751	2.617	12.5	18.8	12 17	3 24.21	+38 47.6	1.806	2.689	11.3	19.7
12 27	3 26.16	+6 48.9	1.857	2.640	15.4	19.0	12 27	3 19.21	+37 40.7	1.886	2.701	14.0	19.9
<b>354054</b>	2001 <i>SF</i> <sub>329</sub>		11 21.6 209°08'	11°3'/28.3 17			<b>374749</b>	2006 <i>SY</i> <sub>187</sub>		11 21.6 5°73'	3°0'/22.5 18		
10 18	4 29.43	+53 53.4	2.307	2.974	16.3	21.2	10 18	4 18.42	+25 16.1	1.213	2.061	19.1	21.1
10 28	4 21.85	+55 17.0	2.226	2.970	14.7	21.0	10 28	4 13.60	+25 50.0	1.148	2.060	14.7	20.8
11 7	4 10.36	+56 18.3	2.163	2.967	13.1	20.9	11 7	4 5.20	+26 12.9	1.102	2.061	9.6	20.5
11 17	3 55.89	+56 49.7	2.122	2.963	11.9	20.8	11 17	3 54.23	+26 22.0	1.080	2.062	4.4	20.2
11 27	3 40.22	+56 45.9	2.104	2.958	11.3	20.8	11 27	3 42.42	+26 17.0	1.082	2.063	4.0	20.2
12 7	3 25.48	+56 7.9	2.110	2.954	11.7	20.8	12 7	3 31.72	+26 1.7	1.110	2.065	9.1	20.5
12 17	3 13.54	+55 1.8	2.139	2.949	12.8	20.9	12 17	3 23.72	+25 42.5	1.161	2.068	14.1	20.8
12 27	3 5.57	+53 37.6	2.191	2.944	14.3	21.0	12 27	3 19.44	+25 26.3	1.232	2.072	18.4	21.1
<b>130140</b>	1999 <i>XC</i> <sub>150</sub>		11 21.6 127°13'	0°1'/21.6 18			<b>102030</b>	1999 <i>RJ</i> <sub>100</sub>					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>298402</b>	2003 <i>SC</i> <sub>263</sub>		11 21.6 105°56	2°5/22.6	18		<b>16618</b>	1993 <i>FX</i> <sub>52</sub>		11 21.6 193°18	3°2/20.3	18	
10 18	4 20.97	+26 11.8	1.898	2.711	14.6	20.7	10 18	4 19.23	+14 18.3	1.529	2.372	16.0	19.5
10 28	4 14.18	+26 38.7	1.834	2.728	11.2	20.5	10 28	4 13.29	+13 43.4	1.458	2.371	12.1	19.2
11 7	4 4.91	+26 56.1	1.794	2.744	7.3	20.3	11 7	4 4.58	+13 6.1	1.409	2.370	7.6	19.0
11 17	3 54.03	+27 2.4	1.781	2.760	3.5	20.1	11 17	3 53.98	+12 30.1	1.386	2.368	3.6	18.7
11 27	3 42.75	+26 57.7	1.796	2.776	3.1	20.1	11 27	3 42.82	+11 59.9	1.390	2.366	4.8	18.8
12 7	3 32.36	+26 44.9	1.842	2.791	6.7	20.4	12 7	3 32.53	+11 39.8	1.422	2.363	9.2	19.0
12 17	3 23.91	+26 28.2	1.914	2.806	10.3	20.6	12 17	3 24.32	+11 33.0	1.480	2.360	13.5	19.3
12 27	3 18.11	+26 12.3	2.011	2.820	13.5	20.8	12 27	3 19.00	+11 41.0	1.558	2.356	17.3	19.5
<b>215920</b>	2005 <i>JB</i> <sub>86</sub>		11 21.6 317°42	1°8/20.8	18		<b>103103</b>	1999 <i>XM</i> <sub>174</sub>		11 21.6 250°08	3°9/19.9	18	
10 18	4 12.68	+18 10.2	1.498	2.351	15.8	20.0	10 18	4 16.66	+ 8 52.8	2.105	2.934	12.8	19.4
10 28	4 8.72	+17 36.8	1.411	2.330	11.9	19.7	10 28	4 10.82	+ 8 37.2	2.016	2.919	9.8	19.2
11 7	4 1.98	+16 56.2	1.344	2.309	7.4	19.4	11 7	4 2.86	+ 8 24.9	1.952	2.904	6.6	19.0
11 17	3 53.20	+16 11.2	1.303	2.289	2.7	19.1	11 17	3 53.42	+ 8 18.6	1.914	2.889	4.1	18.8
11 27	3 43.62	+15 26.5	1.289	2.269	3.8	19.1	11 27	3 43.42	+ 8 21.0	1.907	2.873	4.9	18.8
12 7	3 34.68	+14 47.7	1.300	2.249	8.8	19.3	12 7	3 33.90	+ 8 34.0	1.928	2.856	8.1	19.0
12 17	3 27.65	+14 20.0	1.336	2.231	13.6	19.6	12 17	3 25.78	+ 8 58.5	1.977	2.840	11.5	19.2
12 27	3 23.48	+14 6.9	1.393	2.213	17.8	19.8	12 27	3 19.80	+ 9 34.5	2.049	2.823	14.5	19.3
<b>414338</b>	2008 <i>SD</i> <sub>219</sub>		11 21.6 22°81	0°4/21.3	18		<b>76542</b>	2000 <i>GC</i> <sub>81</sub>		11 21.6 282°52	0°9/21.1	18	
10 18	4 11.82	+20 54.9	2.008	2.844	13.0	20.4	10 18	4 12.42	+18 22.2	2.329	3.159	11.7	19.6
10 28	4 7.19	+20 24.8	1.938	2.848	9.7	20.2	10 28	4 7.52	+18 6.0	2.240	3.147	8.7	19.4
11 7	4 0.55	+19 47.9	1.892	2.853	5.9	20.0	11 7	4 0.77	+17 45.8	2.175	3.135	5.4	19.2
11 17	3 52.63	+19 6.1	1.873	2.859	1.9	19.8	11 17	3 52.75	+17 22.9	2.138	3.123	1.8	18.9
11 27	3 44.40	+18 22.7	1.883	2.864	2.4	19.8	11 27	3 44.29	+16 59.7	2.131	3.111	2.4	19.0
12 7	3 36.85	+17 41.8	1.921	2.871	6.4	20.1	12 7	3 36.29	+16 38.9	2.153	3.099	6.1	19.2
12 17	3 30.82	+17 7.3	1.986	2.877	10.0	20.3	12 17	3 29.56	+16 23.2	2.203	3.087	9.5	19.4
12 27	3 26.93	+16 42.2	2.076	2.884	13.2	20.6	12 27	3 24.75	+16 15.0	2.278	3.075	12.5	19.6
<b>217318</b>	2004 <i>PM</i> <sub>67</sub>		11 21.6 50°41	3°6/19.3	18		<b>220439</b>	2003 <i>WL</i> <sub>31</sub>		11 21.6 244°19	0°5/21.2	18	
10 18	4 12.13	+12 52.2	1.973	2.815	13.0	19.8	10 18	4 12.11	+21 30.4	2.371	3.197	11.6	19.9
10 28	4 7.32	+11 47.4	1.908	2.820	9.7	19.6	10 28	4 7.15	+20 41.9	2.289	3.194	8.7	19.7
11 7	4 0.59	+10 41.1	1.867	2.826	6.3	19.4	11 7	4 0.44	+19 45.8	2.232	3.192	5.3	19.5
11 17	3 52.64	+ 9 37.8	1.854	2.831	3.8	19.3	11 17	3 52.61	+18 44.2	2.204	3.189	1.7	19.2
11 27	3 44.41	+ 8 42.6	1.869	2.837	4.8	19.3	11 27	3 44.49	+17 40.8	2.205	3.187	2.3	19.3
12 7	3 36.87	+ 7 59.7	1.913	2.843	8.0	19.5	12 7	3 36.93	+16 40.1	2.237	3.184	5.9	19.5
12 17	3 30.83	+ 7 32.0	1.983	2.848	11.3	19.8	12 17	3 30.69	+15 46.2	2.298	3.181	9.2	19.7
12 27	3 26.86	+ 7 20.3	2.075	2.854	14.2	20.0	12 27	3 26.32	+15 2.4	2.383	3.178	12.1	19.9
<b>132984</b>	2002 <i>TO</i> <sub>197</sub>		11 21.6 11°83	4°8/18.3	18		<b>292705</b>	2006 <i>US</i> <sub>124</sub>		11 21.6 291°53	1°8/20.8	18	
10 18	4 9.98	+10 26.9	1.975	2.821	12.8	18.7	10 18	4 16.11	+19 8.7	1.396	2.247	16.8	20.6
10 28	4 5.73	+ 9 1.1	1.911	2.823	9.7	18.5	10 28	4 11.29	+18 22.0	1.322	2.240	12.7	20.3
11 7	3 59.62	+ 7 35.0	1.871	2.826	6.6	18.3	11 7	4 3.52	+17 26.1	1.269	2.233	7.8	20.0
11 17	3 52.33	+ 6 14.5	1.859	2.829	4.8	18.2	11 17	3 53.69	+16 24.6	1.241	2.226	2.8	19.7
11 27	3 44.77	+ 5 5.4	1.875	2.833	6.0	18.3	11 27	3 43.21	+15 23.4	1.239	2.219	3.9	19.8
12 7	3 37.86	+ 4 12.6	1.919	2.837	8.8	18.5	12 7	3 33.65	+14 29.3	1.264	2.213	9.1	20.0
12 17	3 32.37	+ 3 38.7	1.989	2.841	11.9	18.7	12 17	3 26.27	+13 48.4	1.314	2.206	14.0	20.3
12 27	3 28.88	+ 3 24.0	2.080	2.846	14.5	18.9	12 27	3 21.95	+13 24.4	1.384	2.200	18.1	20.6
<b>42500</b>	1992 <i>RV</i> <sub>6</sub>		11 21.6 69°41	0°4/21.4	18		<b>403697</b>	2010 <i>VG</i> <sub>113</sub>		11 21.6 247°71	1°6/20.8	18	
10 18	4 14.52	+19 45.1	2.126	2.955	12.7	18.9	10 18	4 13.54	+16 48.7	1.782	2.625	14.1	20.9
10 28	4 8.97	+19 33.3	2.067	2.974	9.4	18.8	10 28	4 8.67	+16 30.1	1.716	2.630	10.5	20.6
11 7	4 1.53	+19 16.9	2.033	2.993	5.7	18.6	11 7	4 1.57	+16 8.3	1.672	2.635	6.5	20.4
11 17	3 52.92	+18 56.9	2.026	3.012	1.8	18.3	11 17	3 53.00	+15 45.5	1.655	2.640	2.4	20.2
11 27	3 44.10	+18 35.6	2.049	3.031	2.3	18.4	11 27	3 44.05	+15 24.7	1.667	2.646	3.2	20.2
12 7	3 36.01	+18 15.9	2.101	3.049	6.0	18.7	12 7	3 35.85	+15 9.2	1.706	2.653	7.3	20.5
12 17	3 29.44	+18 0.7	2.181	3.068	9.4	19.0	12 17	3 29.34	+15 1.7	1.771	2.659	11.2	20.8
12 27	3 24.95	+17 52.2	2.285	3.087	12.3	19.2	12 27	3 25.21	+15 4.2	1.859	2.666	14.5	21.0
<b>113385</b>	2002 <i>SS</i> <sub>15</sub>		11 21.6 133°15	3°7/24.4	18		<b>411579</b>	2011 <i>EM</i> <sub>17</sub>		11 21.6 317°22	6°4/24.5	17	
10 18	4 14.88	+35 1.3	2.669	3.447	11.8	19.1	10 18	4 18.56	+37 18.5	2.175	2.950	14.2	20.5
10 28	4 9.17	+34 54.5	2.590	3.454	9.4	19.0	10 28	4 12.76	+38 15.9	2.089	2.944	11.7	20.4
11 7	4 1.64	+34 34.2	2.534	3.460	6.8	18.8	11 7	4 4.32	+38 59.3	2.026	2.938	9.1	20.2
11 17	3 52.96	+33 59.5	2.505	3.467	4.5	18.7	11 17	3 53.96	+39 24.2	1.987	2.932	7.0	20.0
11 27	3 44.03	+33 11.7	2.506	3.473	3.8	18.7	11 27	3 42.84	+39 28.6	1.977	2.926	6.4	20.0
12 7	3 35.74	+32 14.1	2.537	3.479	5.6	18.8	12 7	3 32.30	+39 13.6	1.994	2.920	8.0	20.1
12 17	3 28.87	+31 11.3	2.597	3.485	8.1	19.0	12 17	3 23.55	+38 43.8	2.037	2.915	10.5	20.2
12 27	3 23.98	+30 8.7	2.683	3.490	10.5	19.1	12 27	3 17.47	+38 5.8	2.105	2.910	13.1	20.4
<b>513505</b>	2009 <i>QO</i> <sub>21</sub>		11 21.6 37°25	5°7/23.6	18		<b>187515</b>	2006 <i>TL</i> <sub>97</sub>		11 21.6 220°26	2°3/22.6	18	
10 18	4 19.81	+30 56.2	1.106	1.947	21.0	20.4	10 18	4 19.66	+26 28.7	1.613	2.438	16.2	20.9
10 28	4 14.74	+31 38.8	1.060	1.964	16.5	20.2	10 28	4 13.83	+26 34.2	1.533	2.434	12.5	20.7
11 7	4 5.83	+32 1.8	1.033	1.981	11.5	20.0	11 7	4 5.04	+26 27.7	1.476	2.429	8.2	20.4
11 17	3 54.38	+32 1.0	1.026	2.000	7.0	19.8	11 17	3 54.18	+26 7.9	1.443	2.425	3.7	20.2
11 27	3 42.43	+31 36.6	1.044	2.019	6.0	19.8	11 27	3 42.63	+25 36.0	1.439	2.420	3.3	20.1
12 7	3 32.07	+30 55.1	1.086	2.039	9.6	20.1	12 7	3 31.94	+24 56.6	1.462	2.415	7.7	20.4
12 17	3 24.83	+30 6.0	1.151	2.060	14.1	20.4	12 17	3 23.39	+24 15.6	1.512	2.409	12.1	20.6
12 27	3 21.52	+29 19.0	1.236	2.081	18.0	20.7	12 27	3 17.90	+23 39.6	1.584	2.403	16.0	20.9
<b>97692</b>	2000 <i>GO</i> <sub>36</sub>		11 21.6 272°46	0°5/21.3	18		<b>364383</b>	2006 <i>VT</i>					

EPHEMERIDES

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>17631</b>	1996 <i>HV</i> <sub>21</sub>		11 21.6 195°33	1.2°/22.0	18		<b>454980</b>	2015 <i>TA</i> <sub>214</sub>		11 21.6 233°70	0.2°/21.5	18	
10 18	4 21.36	+23 6.3	1.576	2.406	16.3	19.1	10 18	4 14.78	+21 27.3	1.978	2.809	13.4	21.0
10 28	4 15.07	+23 14.6	1.500	2.404	12.4	18.8	10 28	4 9.53	+21 1.0	1.898	2.805	10.1	20.8
11 7	4 5.80	+23 14.3	1.445	2.403	7.8	18.6	11 7	4 2.10	+20 26.9	1.842	2.802	6.2	20.5
11 17	3 54.43	+23 4.5	1.416	2.400	2.9	18.3	11 17	3 53.20	+19 46.6	1.812	2.798	2.0	20.3
11 27	3 42.36	+22 46.4	1.415	2.398	2.9	18.3	11 27	3 43.88	+19 3.3	1.812	2.794	2.4	20.3
12 7	3 31.17	+22 23.9	1.443	2.394	7.8	18.5	12 7	3 35.21	+18 21.1	1.841	2.790	6.7	20.6
12 17	3 22.17	+22 2.0	1.496	2.391	12.4	18.8	12 17	3 28.15	+17 44.4	1.897	2.786	10.5	20.8
12 27	3 16.25	+21 45.8	1.572	2.386	16.3	19.1	12 27	3 23.38	+17 16.8	1.977	2.782	13.8	21.0
<b>103239</b>	2000 <i>AS</i>		11 21.6 350°65	0.6°/21.3	18		<b>440813</b>	2006 <i>QN</i> <sub>119</sub>		11 21.6 41°15	8°1°/26.3	18	
10 18	4 15.01	+19 51.3	1.713	2.553	14.7	20.0	10 18	4 19.63	+40 49.2	1.523	2.308	18.8	19.9
10 28	4 9.96	+19 32.7	1.639	2.551	11.0	19.8	10 28	4 14.06	+41 16.7	1.469	2.326	15.6	19.7
11 7	4 2.47	+19 7.7	1.589	2.550	6.8	19.5	11 7	4 5.18	+41 19.0	1.434	2.345	12.2	19.6
11 17	3 53.33	+18 37.8	1.564	2.550	2.2	19.3	11 17	3 54.19	+40 51.9	1.421	2.365	9.2	19.4
11 27	3 43.69	+18 6.3	1.567	2.549	2.8	19.3	11 27	3 42.83	+39 55.9	1.433	2.385	8.1	19.4
12 7	3 34.82	+17 37.2	1.598	2.549	7.4	19.6	12 7	3 32.90	+38 37.4	1.471	2.406	9.5	19.6
12 17	3 27.77	+17 14.6	1.656	2.548	11.6	19.8	12 17	3 25.67	+37 6.5	1.534	2.427	12.3	19.8
12 27	3 23.28	+17 1.7	1.736	2.548	15.1	20.1	12 27	3 21.88	+35 34.1	1.620	2.449	15.3	20.0
<b>490999</b>	2011 <i>GZ</i> <sub>4</sub>		11 21.6 324°37	1°0°/21.2	17		<b>415251</b>	2012 <i>JB</i> <sub>53</sub>		11 21.6 153°30	0°8°/21.1	18	
10 18	4 15.28	+15 52.4	2.281	3.108	12.0	20.6	10 18	4 12.93	+18 16.5	2.527	3.352	11.0	21.6
10 28	4 9.65	+16 10.8	2.198	3.104	9.0	20.4	10 28	4 7.67	+18 4.0	2.450	3.355	8.2	21.4
11 7	4 2.09	+16 28.7	2.141	3.101	5.5	20.2	11 7	4 0.75	+17 48.0	2.398	3.358	5.0	21.3
11 17	3 53.19	+16 46.6	2.112	3.097	1.9	19.9	11 17	3 52.74	+17 30.0	2.375	3.360	1.7	21.0
11 27	3 43.83	+17 5.2	2.113	3.094	2.5	19.9	11 27	3 44.44	+17 11.7	2.382	3.363	2.2	21.1
12 7	3 34.95	+17 25.3	2.144	3.090	6.1	20.2	12 7	3 36.65	+16 55.5	2.419	3.365	5.5	21.3
12 17	3 27.41	+17 48.3	2.203	3.087	9.5	20.4	12 17	3 30.07	+16 43.7	2.485	3.367	8.6	21.5
12 27	3 21.88	+18 15.3	2.287	3.084	12.5	20.6	12 27	3 25.26	+16 38.3	2.576	3.369	11.3	21.7
<b>228075</b>	2008 <i>PE</i> <sub>11</sub>		11 21.6 106°21	1°7°/22.5	18		<b>94168</b>	2001 <i>AZ</i> <sub>22</sub>		11 21.6 280°46	5°5°/18.6	18	
10 18	4 16.35	+25 16.9	2.426	3.236	11.9	20.7	10 18	4 12.40	+ 5 1.4	2.139	2.972	12.5	19.8
10 28	4 10.30	+25 33.4	2.356	3.249	9.0	20.5	10 28	4 7.47	+ 4 14.9	2.068	2.968	9.7	19.6
11 7	4 2.38	+25 42.5	2.311	3.262	5.8	20.3	11 7	4 0.71	+ 3 33.5	2.021	2.965	7.1	19.4
11 17	3 53.25	+25 43.7	2.295	3.275	2.6	20.2	11 17	3 52.75	+ 3 1.6	2.002	2.962	5.6	19.3
11 27	3 43.80	+25 37.6	2.308	3.288	2.4	20.2	11 27	3 44.44	+ 2 42.9	2.010	2.958	6.4	19.4
12 7	3 34.97	+25 26.4	2.352	3.301	5.4	20.4	12 7	3 36.68	+ 2 40.0	2.046	2.955	8.9	19.5
12 17	3 27.56	+25 12.9	2.424	3.313	8.5	20.6	12 17	3 30.26	+ 2 53.3	2.108	2.952	11.6	19.7
12 27	3 22.17	+25 0.6	2.522	3.325	11.2	20.8	12 27	3 25.78	+ 3 22.2	2.192	2.949	14.2	19.9
<b>337932</b>	2001 <i>YV</i> <sub>8</sub>		11 21.6 314°80	1°1°/21.9	18		<b>521501</b>	2015 <i>OR</i> <sub>95</sub>		11 21.6 187°39	2°0°/20.5	18	
10 18	4 16.92	+22 0.3	1.446	2.290	16.7	20.5	10 18	4 14.31	+16 55.0	1.891	2.730	13.6	21.6
10 28	4 12.12	+22 19.0	1.364	2.277	12.8	20.2	10 28	4 9.16	+16 13.2	1.818	2.730	10.2	21.4
11 7	4 4.20	+22 31.0	1.303	2.264	8.1	19.9	11 7	4 1.85	+15 26.8	1.768	2.730	6.3	21.2
11 17	3 53.98	+22 35.1	1.267	2.252	2.9	19.6	11 17	3 53.12	+14 38.9	1.746	2.730	2.5	21.0
11 27	3 42.85	+22 32.1	1.257	2.240	3.0	19.6	11 27	3 44.01	+13 53.5	1.752	2.729	3.5	21.0
12 7	3 32.44	+22 24.8	1.274	2.229	8.3	19.8	12 7	3 35.59	+13 15.1	1.787	2.729	7.5	21.3
12 17	3 24.19	+22 17.7	1.316	2.218	13.2	20.1	12 17	3 28.80	+12 47.3	1.848	2.729	11.2	21.5
12 27	3 19.15	+22 15.5	1.379	2.207	17.5	20.3	12 27	3 24.29	+12 32.3	1.932	2.728	14.4	21.7
<b>312800</b>	2010 <i>WM</i> <sub>64</sub>		11 21.6 280°87	2°9°/23.0	18		<b>100558</b>	1997 <i>GE</i> <sub>9</sub>		11 21.6 98°84	0°9°/22.0	18	
10 18	4 16.20	+28 29.0	2.071	2.882	13.6	20.5	10 18	4 20.22	+23 50.5	1.594	2.424	16.1	20.1
10 28	4 10.68	+28 45.2	1.990	2.880	10.6	20.3	10 28	4 13.84	+23 37.3	1.536	2.441	12.2	19.9
11 7	4 2.85	+28 50.9	1.933	2.879	7.1	20.1	11 7	4 4.78	+23 13.9	1.500	2.458	7.6	19.7
11 17	3 53.45	+28 44.5	1.902	2.878	3.8	19.8	11 17	3 54.04	+22 40.7	1.490	2.475	2.7	19.4
11 27	3 43.54	+28 26.6	1.900	2.877	3.3	19.8	11 27	3 43.00	+22 0.9	1.509	2.491	2.7	19.5
12 7	3 34.28	+28 0.1	1.927	2.876	6.4	20.0	12 7	3 33.06	+21 19.6	1.555	2.507	7.4	19.8
12 17	3 26.68	+27 29.3	1.981	2.875	9.9	20.2	12 17	3 25.30	+20 42.2	1.628	2.523	11.6	20.1
12 27	3 21.49	+26 59.2	2.059	2.874	13.0	20.4	12 27	3 20.43	+20 13.3	1.724	2.538	15.2	20.3
<b>176044</b>	2000 <i>SA</i> <sub>309</sub>		11 21.6 17°95	5°9°/23.8	18		<b>474558</b>	2004 <i>AZ</i> <sub>2</sub>		11 21.6 315°69	8°6°/18.5	18	
10 18	4 15.86	+31 24.4	0.985	1.838	22.0	19.5	10 18	4 14.72	+ 0 8.3	1.579	2.416	15.9	20.5
10 28	4 12.30	+31 55.8	0.933	1.844	17.4	19.2	10 28	4 9.98	- 0 31.2	1.500	2.397	13.0	20.2
11 7	4 4.62	+32 5.2	0.899	1.851	12.2	18.9	11 7	4 2.65	- 0 58.9	1.443	2.378	10.2	20.0
11 17	3 54.10	+31 48.2	0.884	1.859	7.4	18.7	11 17	3 53.47	- 1 8.2	1.410	2.360	8.6	19.9
11 27	3 42.85	+31 5.8	0.892	1.869	6.3	18.7	11 27	3 43.57	- 0 54.1	1.402	2.342	9.5	19.9
12 7	3 33.16	+30 6.0	0.923	1.879	10.2	19.0	12 7	3 34.28	- 0 14.6	1.419	2.324	12.3	20.0
12 17	3 26.71	+29 0.0	0.975	1.892	15.1	19.3	12 17	3 26.74	+ 0 49.0	1.459	2.307	15.6	20.2
12 27	3 24.42	+27 59.0	1.046	1.905	19.6	19.6	12 27	3 21.83	+ 2 13.0	1.520	2.291	18.8	20.4
<b>259389</b>	2003 <i>MX</i> <sub>8</sub>		11 21.6 122°29	0°6°/21.9	13 C		<b>110385</b>	2001 <i>TL</i> <sub>2</sub>		11 21.6 297°01	2°4°/20.2	18	
10 18	4 21.83	+24 27.1	1.633	2.457	16.1	21.5	10 18	4 12.91	+16 27.9	1.861	2.703	13.6	19.6
10 28	4 14.93	+23 52.5	1.573	2.475	12.1	21.3	10 28	4 8.25	+15 35.3	1.779	2.693	10.2	19.4
11 7	4 5.38	+23 5.9	1.535	2.492	7.5	21.1	11 7	4 1.38	+14 37.4	1.721	2.683	6.4	19.1
11 17	3 54.20	+22 9.0	1.524	2.508	2.6	20.8	11 17	3 53.02	+13 37.7	1.690	2.673	2.8	18.9
11 27	3 42.78	+21 6.0	1.542	2.524	2.6	20.8	11 27	3 44.18	+12 41.3	1.687	2.663	3.9	18.9
12 7	3 32.51	+20 3.3	1.588	2.539	7.4	21.2	12 7	3 35.97	+11 53.2	1.713	2.653	7.9	19.1
12 17	3 24.45	+19 7.2	1.662	2.553	11.7	21.5	12 17	3 29.34	+11 17.5	1.764	2.644	11.7	19.4
12 27	3 19.26	+18 22.7	1.759	2.566	15.2	21.7	12 27	3 25.00	+10 56.7	1.839	2.634	15.1	19.6
<b>343214</b>	2009 <i>WG</i> <sub>34</sub>		11 21.6 312°32	1°8°/20.8	17		<b>410163</b>						

EPHEMERIDES

11 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>173518</b>	2000 UN <sub>107</sub>		11 21.6 40°23	4.8/20.1	18		<b>87343</b>	2000 QH <sub>25</sub>		11 21.6 296°60	23°3/23.9	17	
10 18	4 17.26	+11 56.2	1.077	1.944	19.5	19.4	10 18	4 40.29	+54 6.7	1.059	1.797	28.1	18.1
10 28	4 12.35	+11 19.4	1.032	1.957	14.7	19.1	10 28	4 36.29	+57 59.2	0.999	1.786	26.2	17.9
11 7	4 4.18	+10 44.7	1.007	1.971	9.4	18.9	11 7	4 23.67	+61 26.5	0.954	1.775	24.6	17.8
11 17	3 53.91	+10 17.4	1.005	1.985	5.2	18.7	11 17	4 1.64	+64 3.0	0.924	1.765	23.5	17.7
11 27	3 43.27	+10 2.9	1.027	2.001	6.4	18.9	11 27	3 33.15	+65 23.9	0.910	1.754	23.3	17.6
12 7	3 34.00	+10 4.7	1.073	2.017	11.0	19.2	12 7	3 5.23	+65 21.4	0.912	1.744	24.1	17.6
12 17	3 27.38	+10 23.9	1.141	2.033	15.7	19.5	12 17	2 45.06	+64 10.0	0.927	1.735	25.6	17.7
12 27	3 24.16	+10 59.5	1.228	2.050	19.6	19.8	12 27	2 35.99	+62 17.8	0.955	1.725	27.6	17.8
<b>67325</b>	2000 HU <sub>69</sub>		11 21.6 333°25	1°1/21.1	18		<b>136306</b>	2004 BF <sub>35</sub>		11 21.6 74°96	1°5/20.9	18	
10 18	4 14.40	+20 53.9	1.346	2.199	17.2	18.9	10 18	4 16.08	+16 48.6	1.793	2.631	14.2	19.8
10 28	4 10.13	+20 6.5	1.273	2.193	12.9	18.6	10 28	4 10.56	+16 34.4	1.729	2.640	10.6	19.6
11 7	4 2.88	+19 7.7	1.222	2.186	8.0	18.3	11 7	4 2.76	+16 17.1	1.687	2.649	6.5	19.3
11 17	3 53.56	+18 0.9	1.195	2.181	2.6	18.0	11 17	3 53.48	+15 58.6	1.673	2.658	2.4	19.1
11 27	3 43.61	+16 52.2	1.194	2.175	3.6	18.0	11 27	3 43.84	+15 41.8	1.687	2.667	3.2	19.2
12 7	3 34.60	+15 49.2	1.219	2.170	9.0	18.3	12 7	3 34.99	+15 29.6	1.729	2.675	7.3	19.5
12 17	3 27.82	+14 58.7	1.268	2.166	13.9	18.6	12 17	3 27.90	+15 24.7	1.798	2.684	11.2	19.7
12 27	3 24.14	+14 25.3	1.338	2.162	18.1	18.8	12 27	3 23.23	+15 29.0	1.889	2.693	14.4	19.9
<b>366643</b>	2003 SU <sub>250</sub>		11 21.6 31°22	9°4/14.2	18		<b>287765</b>	2003 SU <sub>65</sub>		11 21.6 78°31	4°1/20.2	17	
10 18	4 10.81	- 2 33.1	1.991	2.817	13.5	19.7	10 18	4 20.58	+12 49.1	1.315	2.165	17.7	20.3
10 28	4 6.30	- 4 46.6	1.944	2.823	11.3	19.6	10 28	4 14.24	+12 6.7	1.272	2.187	13.3	20.1
11 7	3 59.98	- 6 49.5	1.921	2.829	9.8	19.5	11 7	4 5.07	+11 24.8	1.250	2.210	8.4	19.9
11 17	3 52.54	- 8 33.5	1.926	2.836	9.4	19.5	11 17	3 54.19	+10 47.9	1.252	2.233	4.4	19.7
11 27	3 44.84	- 9 51.5	1.956	2.844	10.5	19.6	11 27	3 43.13	+10 21.2	1.282	2.255	5.6	19.9
12 7	3 37.81	-10 40.1	2.012	2.851	12.4	19.7	12 7	3 33.38	+10 8.5	1.338	2.277	9.8	20.2
12 17	3 32.19	-10 59.4	2.089	2.859	14.4	19.9	12 17	3 26.03	+10 11.3	1.418	2.298	14.0	20.5
12 27	3 28.52	-10 52.0	2.185	2.867	16.3	20.1	12 27	3 21.73	+10 29.8	1.519	2.320	17.5	20.8
<b>27239</b>	O' Dorney		11 21.6 320°55	0°6/21.9	18		<b>429812</b>	2012 JP <sub>50</sub>		11 21.6 239°72	0°9/21.3	18	
10 18	4 15.11	+24 25.1	1.288	2.138	18.0	18.2	10 18	4 19.28	+19 16.0	1.552	2.390	16.1	22.0
10 28	4 10.95	+23 51.0	1.211	2.128	13.7	17.9	10 28	4 13.59	+18 59.4	1.470	2.381	12.1	21.8
11 7	4 3.54	+23 1.5	1.155	2.118	8.7	17.6	11 7	4 4.98	+18 36.2	1.410	2.371	7.5	21.5
11 17	3 53.81	+21 58.1	1.122	2.108	3.0	17.3	11 17	3 54.29	+18 7.8	1.375	2.361	2.5	21.1
11 27	3 43.33	+20 46.0	1.116	2.099	3.1	17.3	11 27	3 42.86	+17 37.3	1.369	2.351	3.2	21.2
12 7	3 33.80	+19 33.2	1.135	2.090	8.9	17.6	12 7	3 32.19	+17 9.3	1.390	2.340	8.4	21.4
12 17	3 26.68	+18 28.5	1.177	2.082	14.2	17.9	12 17	3 23.58	+16 48.4	1.437	2.328	13.1	21.7
12 27	3 22.90	+17 38.8	1.241	2.075	18.7	18.1	12 27	3 17.96	+16 38.5	1.505	2.316	17.1	21.9
<b>268743</b>	2006 LU <sub>1</sub>		11 21.6 250°89	0°2/21.4	18		<b>91956</b>	1999 VN <sub>77</sub>		11 21.6 250°08	1°2/22.4	18	
10 18	4 13.36	+22 34.6	2.979	3.790	9.9	21.4	10 18	4 13.69	+26 2.4	2.296	3.112	12.3	19.4
10 28	4 7.88	+21 45.5	2.871	3.769	7.4	21.2	10 28	4 8.55	+25 37.7	2.209	3.106	9.4	19.2
11 7	4 0.88	+20 48.5	2.790	3.747	4.6	21.0	11 7	4 1.46	+25 2.7	2.146	3.100	6.0	19.0
11 17	3 52.85	+19 45.1	2.740	3.725	1.5	20.7	11 17	3 53.08	+24 18.3	2.111	3.093	2.4	18.7
11 27	3 44.48	+18 38.2	2.721	3.702	1.8	20.7	11 27	3 44.32	+23 26.8	2.105	3.087	2.2	18.7
12 7	3 36.50	+17 31.6	2.734	3.679	5.0	20.9	12 7	3 36.14	+22 32.4	2.130	3.081	5.7	18.9
12 17	3 29.56	+16 29.2	2.778	3.656	8.0	21.1	12 17	3 29.37	+21 39.5	2.182	3.074	9.2	19.1
12 27	3 24.20	+15 34.4	2.848	3.631	10.6	21.2	12 27	3 24.65	+20 52.7	2.260	3.068	12.2	19.3
<b>60577</b>	2000 EW <sub>122</sub>		11 21.6 130°78	3°0/19.6	18		<b>434341</b>	2004 PU <sub>80</sub>		11 21.6 118°87	2°9/23.1	18	
10 18	4 11.68	+10 54.3	2.707	3.534	10.3	20.1	10 18	4 19.23	+29 15.3	1.728	2.543	15.7	21.3
10 28	4 6.54	+10 15.0	2.640	3.544	7.7	19.9	10 28	4 13.20	+29 8.0	1.659	2.552	12.2	21.1
11 7	3 59.98	+9 36.5	2.600	3.553	5.1	19.8	11 7	4 4.50	+28 46.0	1.612	2.560	8.1	20.8
11 17	3 52.54	+ 9 1.4	2.588	3.563	3.1	19.6	11 17	3 54.07	+28 8.7	1.590	2.568	4.1	20.6
11 27	3 44.89	+ 8 32.7	2.607	3.572	3.9	19.7	11 27	3 43.22	+27 18.4	1.597	2.576	3.4	20.6
12 7	3 37.74	+ 8 12.5	2.655	3.580	6.3	19.9	12 7	3 33.36	+26 20.2	1.632	2.584	7.1	20.8
12 17	3 31.69	+ 8 2.5	2.731	3.589	8.9	20.1	12 17	3 25.59	+25 21.1	1.694	2.592	11.1	21.1
12 27	3 27.22	+ 8 3.1	2.832	3.597	11.1	20.2	12 27	3 20.65	+24 27.6	1.780	2.599	14.6	21.3
<b>56376</b>	2000 EE <sub>33</sub>		11 21.6 11°18	6°5/19.4	18		<b>391099</b>	2005 UC <sub>389</sub>		11 21.6 266°02	6°7/16.7	18	
10 18	4 14.66	+ 8 6.8	1.213	2.076	18.1	18.1	10 18	4 16.39	+ 8 58.8	1.797	2.635	14.2	21.3
10 28	4 10.29	+ 7 17.2	1.157	2.077	13.9	17.9	10 28	4 10.98	+ 6 47.9	1.706	2.612	11.1	21.0
11 7	4 2.94	+ 6 33.0	1.122	2.079	9.6	17.7	11 7	4 3.18	+ 4 31.7	1.641	2.588	8.1	20.8
11 17	3 53.58	+ 6 0.7	1.110	2.082	6.7	17.5	11 17	3 53.69	+ 2 19.0	1.604	2.564	6.7	20.7
11 27	3 43.69	+ 5 46.4	1.122	2.086	7.9	17.6	11 27	3 43.57	+ 0 20.0	1.597	2.539	8.3	20.7
12 7	3 34.85	+ 5 53.5	1.158	2.090	11.7	17.8	12 7	3 34.01	- 1 16.6	1.618	2.514	11.6	20.9
12 17	3 28.31	+ 6 22.1	1.217	2.096	15.9	18.1	12 17	3 26.08	- 2 25.4	1.663	2.488	15.2	21.0
12 27	3 24.87	+ 7 10.0	1.294	2.102	19.6	18.4	12 27	3 20.57	- 3 5.2	1.729	2.462	18.3	21.2
<b>174764</b>	2003 WK <sub>25</sub>		11 21.6 172°19	2°1/22.6	18		<b>476489</b>	2008 FL <sub>98</sub>		11 21.6 355°29	5°9/19.5	18	
10 18	4 20.24	+27 22.1	1.647	2.467	16.1	20.7	10 18	4 15.12	+ 9 46.9	1.251	2.113	17.7	21.1
10 28	4 14.10	+27 6.5	1.572	2.470	12.4	20.5	10 28	4 10.67	+ 8 54.6	1.190	2.110	13.6	20.9
11 7	4 5.13	+26 36.7	1.519	2.472	8.1	20.2	11 7	4 3.21	+ 8 4.9	1.149	2.109	9.2	20.6
11 17	3 54.26	+25 52.5	1.492	2.473	3.6	20.0	11 17	3 53.71	+ 7 24.0	1.132	2.107	6.0	20.5
11 27	3 42.89	+24 56.6	1.493	2.474	3.1	19.9	11 27	3 43.62	+ 6 58.5	1.140	2.107	7.3	20.5
12 7	3 32.48	+23 54.9	1.523	2.475	7.4	20.2	12 7	3 34.51	+ 6 52.6	1.172	2.107	11.4	20.8
12 17	3 24.24	+22 54.5	1.579	2.475	11.8	20.5	12 17	3 27.66	+ 7 7.9	1.227	2.107	15.7	21.0
12 27	3 18.96	+22 2.0	1.658	2.475	15.5	20.7	12 27	3 23.92	+ 7 43.1	1.301	2.108	19.5	21.3
<b>447935</b>	2008 AQ <sub>52</sub>		11 21.6 298°61	0°1/21.6	17		<b>371814</b>	2007 TD <sub>65</sub>		11 21.6 55°64	0°7/21.4	17	
10 18	4 14.												

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>313294</b>	2002 CG <sub>139</sub>		11 21.6 159°25	6°8/27.2	18		<b>424575</b>	2008 GV <sub>18</sub>		11 21.6 218°44	3°5/19.9	18	
10 18	4 22.08	+47 15.0	3.066	3.762	12.0	21.7	10 18	4 18.27	+12 24.6	1.899	2.731	13.8	22.3
10 28	4 14.79	+47 49.9	2.985	3.769	10.4	21.6	10 28	4 12.24	+11 44.5	1.815	2.722	10.5	22.0
11 7	4 5.29	+48 8.1	2.925	3.776	8.8	21.5	11 7	4 3.90	+11 3.3	1.756	2.713	6.8	21.8
11 17	3 54.32	+48 6.3	2.891	3.783	7.4	21.4	11 17	3 53.95	+10 24.6	1.724	2.703	3.8	21.6
11 27	3 42.94	+47 43.2	2.884	3.788	6.8	21.4	11 27	3 43.46	+9 52.5	1.721	2.692	4.8	21.6
12 7	3 32.26	+47 0.8	2.905	3.794	7.4	21.4	12 7	3 33.59	+9 30.8	1.747	2.680	8.4	21.8
12 17	3 23.23	+46 3.3	2.954	3.798	8.7	21.5	12 17	3 25.35	+9 22.1	1.800	2.667	12.2	22.0
12 27	3 16.54	+44 56.9	3.029	3.803	10.3	21.7	12 27	3 19.49	+9 27.7	1.875	2.654	15.5	22.2
<b>235546</b>	2004 DR <sub>26</sub>		11 21.6 336°67	0°0/21.6	16		<b>518748</b>	2009 SQ <sub>162</sub>		11 21.6 124°04	1°5/20.7	18	
10 18	4 10.89	+20 42.9	1.687	2.534	14.6	20.8	10 18	4 13.68	+16 46.5	2.326	3.155	11.7	22.0
10 28	4 7.22	+20 39.5	1.597	2.513	11.1	20.5	10 28	4 8.33	+16 19.2	2.256	3.163	8.7	21.9
11 7	4 1.04	+20 29.8	1.530	2.493	6.9	20.2	11 7	4 1.24	+15 48.9	2.210	3.170	5.3	21.7
11 17	3 53.06	+20 14.4	1.489	2.474	2.2	19.9	11 17	3 53.04	+15 17.7	2.194	3.178	2.1	21.5
11 27	3 44.35	+19 55.6	1.474	2.457	2.6	19.9	11 27	3 44.57	+14 48.2	2.207	3.185	2.8	21.5
12 7	3 36.19	+19 36.8	1.486	2.440	7.4	20.1	12 7	3 36.69	+14 23.4	2.250	3.192	6.1	21.8
12 17	3 29.72	+19 22.0	1.523	2.424	11.8	20.4	12 17	3 30.15	+14 5.8	2.320	3.199	9.3	22.0
12 27	3 25.82	+19 14.8	1.583	2.410	15.7	20.6	12 27	3 25.49	+13 57.2	2.416	3.206	12.1	22.2
<b>15820</b>	1994 TB		11 21.6 2°87	0°4/24.3	09 C		<b>358754</b>	2008 CP <sub>168</sub>		11 21.6 311°86	6°0/24.7	18	
10 18	3 53.47	+32 39.3	26.220	26.992	1.4	21.7	10 18	4 18.14	+36 37.3	1.913	2.699	15.5	20.4
10 28	3 52.34	+32 38.5	26.132	26.993	1.1	21.7	10 28	4 12.64	+37 6.0	1.831	2.696	12.6	20.2
11 7	3 51.06	+32 36.5	26.069	26.993	0.8	21.7	11 7	4 4.36	+37 17.6	1.770	2.692	9.6	20.0
11 17	3 49.71	+32 33.4	26.035	26.994	0.5	21.6	11 17	3 54.13	+37 8.4	1.734	2.688	6.9	19.9
11 27	3 48.32	+32 29.3	26.031	26.995	0.5	21.6	11 27	3 43.26	+36 37.8	1.725	2.685	6.1	19.8
12 7	3 46.98	+32 24.4	26.057	26.996	0.6	21.7	12 7	3 33.18	+35 49.0	1.743	2.682	8.0	19.9
12 17	3 45.72	+32 18.9	26.113	26.997	0.9	21.7	12 17	3 25.12	+34 48.5	1.788	2.678	11.0	20.1
12 27	3 44.61	+32 12.9	26.197	26.998	1.2	21.7	12 27	3 19.94	+33 44.4	1.857	2.675	14.0	20.3
<b>30851</b>	Reisfelder		11 21.6 252°82	1°0/22.0	18		<b>45993</b>	2001 BE <sub>71</sub>		11 21.6 216°91	5°0/19.7	18	
10 18	4 19.03	+24 4.5	1.361	2.202	17.7	18.4	10 18	4 17.91	+9 48.2	1.547	2.391	15.8	19.6
10 28	4 13.74	+23 48.8	1.287	2.199	13.5	18.1	10 28	4 12.32	+9 6.4	1.476	2.388	12.1	19.4
11 7	4 5.21	+23 20.4	1.234	2.194	8.5	17.9	11 7	4 4.08	+8 26.9	1.429	2.384	8.1	19.1
11 17	3 54.40	+22 39.7	1.205	2.190	3.1	17.5	11 17	3 54.03	+7 54.2	1.406	2.381	5.2	19.0
11 27	3 42.86	+21 50.2	1.203	2.186	3.1	17.5	11 27	3 43.42	+7 33.4	1.411	2.377	6.2	19.0
12 7	3 32.33	+20 58.2	1.227	2.182	8.6	17.8	12 7	3 33.61	+7 28.1	1.442	2.373	10.0	19.2
12 17	3 24.21	+20 10.8	1.276	2.177	13.6	18.1	12 17	3 25.77	+7 39.7	1.499	2.369	14.0	19.4
12 27	3 19.45	+19 34.5	1.346	2.173	17.9	18.4	12 27	3 20.69	+8 8.0	1.576	2.365	17.5	19.7
<b>11001</b>	Andrewluff		11 21.6 188°02	3°4/19.9	18		<b>292328</b>	2006 SX <sub>180</sub>		11 21.6 298°73	0°4/21.5	18	
10 18	4 19.18	+13 1.1	1.865	2.697	14.1	18.7	10 18	4 14.46	+20 32.6	1.782	2.620	14.3	21.5
10 28	4 12.84	+12 16.9	1.790	2.697	10.6	18.5	10 28	4 9.75	+20 14.8	1.691	2.602	10.8	21.2
11 7	4 4.19	+11 31.2	1.738	2.696	6.8	18.3	11 7	4 2.56	+19 49.9	1.623	2.584	6.7	20.9
11 17	3 53.99	+10 47.6	1.715	2.694	3.7	18.1	11 17	3 53.57	+19 18.8	1.581	2.567	2.2	20.6
11 27	3 43.35	+10 10.5	1.720	2.691	4.7	18.1	11 27	3 43.91	+18 44.7	1.567	2.549	2.7	20.6
12 7	3 33.44	+9 43.9	1.755	2.687	8.4	18.3	12 7	3 34.81	+18 11.5	1.581	2.532	7.4	20.8
12 17	3 25.24	+9 30.4	1.816	2.683	12.1	18.6	12 17	3 27.39	+17 43.7	1.621	2.515	11.7	21.1
12 27	3 19.49	+9 31.4	1.899	2.678	15.3	18.8	12 27	3 22.52	+17 25.4	1.684	2.498	15.5	21.3
<b>122001</b>	2000 FQ <sub>50</sub>		11 21.6 104°43	2°5/22.6	18		<b>24164</b>	1999 WM <sub>3</sub>		11 21.6 72°59	2°2/23.0	18	
10 18	4 23.39	+26 13.0	1.382	2.211	18.2	20.9	10 18	4 14.94	+28 44.2	2.125	2.936	13.3	18.1
10 28	4 16.77	+26 24.0	1.324	2.226	13.9	20.6	10 28	4 9.55	+28 28.4	2.056	2.947	10.2	18.0
11 7	4 6.90	+26 22.0	1.286	2.241	9.0	20.4	11 7	4 2.09	+28 0.6	2.010	2.958	6.7	17.8
11 17	3 54.88	+26 5.5	1.273	2.255	4.0	20.2	11 17	3 53.33	+27 20.9	1.991	2.970	3.3	17.6
11 27	3 42.40	+25 36.1	1.288	2.269	3.5	20.2	11 27	3 44.29	+26 31.8	2.001	2.981	2.7	17.6
12 7	3 31.19	+24 59.2	1.329	2.282	8.2	20.5	12 7	3 36.02	+25 37.5	2.041	2.992	5.9	17.8
12 17	3 22.61	+24 21.6	1.396	2.295	12.8	20.8	12 17	3 29.37	+24 43.2	2.108	3.003	9.3	18.0
12 27	3 17.45	+23 49.9	1.484	2.308	16.7	21.1	12 27	3 24.95	+23 53.7	2.200	3.015	12.3	18.2
<b>299161</b>	2005 GL <sub>12</sub>		11 21.6 122°17	3°4/23.1	18		<b>76757</b>	2000 KU <sub>5</sub>		11 21.6 216°08	1°3/21.1	18	
10 18	4 21.17	+29 0.2	2.093	2.893	13.9	20.4	10 18	4 17.94	+15 24.5	2.243	3.066	12.3	20.1
10 28	4 14.37	+29 39.9	2.022	2.904	10.8	20.2	10 28	4 11.74	+15 33.3	2.157	3.060	9.2	19.9
11 7	4 5.16	+30 9.3	1.974	2.916	7.4	20.0	11 7	4 3.50	+15 41.5	2.096	3.054	5.7	19.7
11 17	3 54.32	+30 25.9	1.954	2.927	4.3	19.9	11 17	3 53.83	+15 49.8	2.063	3.047	2.1	19.4
11 27	3 42.99	+30 29.1	1.964	2.937	3.8	19.9	11 27	3 43.65	+15 59.2	2.061	3.040	2.7	19.5
12 7	3 32.40	+30 20.9	2.003	2.948	6.6	20.1	12 7	3 33.97	+16 11.3	2.089	3.033	6.4	19.7
12 17	3 23.60	+30 5.4	2.070	2.958	9.8	20.3	12 17	3 25.69	+16 27.4	2.146	3.025	9.9	19.9
12 27	3 17.35	+29 47.6	2.161	2.967	12.8	20.5	12 27	3 19.51	+16 49.1	2.227	3.017	13.0	20.1
<b>73577</b>	4818 P-L		11 21.6 179°68	1°9/22.9	18		<b>137730</b>	1999 XR <sub>121</sub>		11 21.6 31°25	2°0/22.3	18	
10 18	4 14.93	+27 31.0	2.803	3.603	10.7	19.9	10 18	4 18.11	+23 48.4	1.113	1.969	19.8	19.1
10 28	4 9.17	+27 35.1	2.718	3.604	8.2	19.7	10 28	4 13.38	+24 8.0	1.062	1.980	15.1	18.8
11 7	4 1.74	+27 31.0	2.659	3.605	5.5	19.6	11 7	4 5.08	+24 16.4	1.030	1.991	9.6	18.6
11 17	3 53.19	+27 18.3	2.627	3.605	2.7	19.4	11 17	3 54.38	+24 12.3	1.020	2.004	3.8	18.3
11 27	3 44.30	+26 57.9	2.626	3.605	2.3	19.3	11 27	3 43.12	+23 57.5	1.034	2.017	3.5	18.3
12 7	3 35.90	+26 31.9	2.656	3.604	5.0	19.5	12 7	3 33.21	+23 36.8	1.074	2.031	9.0	18.7
12 17	3 28.70	+26 3.6	2.715	3.603	7.8	19.7	12 17	3 26.12	+23 16.7	1.136	2.046	14.1	19.0
12 27	3 23.28	+25 36.3	2.801	3.602	10.3	19.9	12 27	3 22.71	+23 3.0	1.219	2.062	18.4	19.3
<b>212834</b>	2007 UO <sub>71</sub>		11 21.6 328°36	2°6/20.9	18		<b>293839</b>	2007 RD <sub>212</sub>		11 21.6 50°22	5°1/19.0	18	
10 18	4 18.33	+12 16.5	1.680										

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>170916</b>	2004 XA <sub>147</sub>		11 21.6 236°36	5°4/24.7	18		<b>443109</b>	2013 YG <sub>69</sub>		11 21.6 265°12	3°4/23.2	18	
10 18	4 19.95	+37 9.4	2.266	3.036	13.8	20.3	10 18	4 18.68	+29 19.9	1.691	2.508	15.9	21.3
10 28	4 13.69	+37 27.7	2.168	3.023	11.4	20.1	10 28	4 13.24	+29 27.9	1.603	2.496	12.5	21.1
11 7	4 4.90	+37 30.1	2.093	3.010	8.6	19.9	11 7	4 4.88	+29 21.9	1.536	2.484	8.5	20.8
11 17	3 54.32	+37 13.5	2.044	2.996	6.2	19.7	11 17	3 54.41	+28 59.9	1.495	2.472	4.6	20.5
11 27	3 43.09	+36 37.1	2.023	2.981	5.5	19.6	11 27	3 43.15	+28 22.4	1.481	2.459	3.9	20.5
12 7	3 32.48	+35 43.7	2.031	2.966	7.2	19.7	12 7	3 32.63	+27 33.8	1.495	2.447	7.6	20.7
12 17	3 23.63	+34 39.2	2.067	2.951	10.0	19.9	12 17	3 24.16	+26 40.6	1.536	2.434	11.9	20.9
12 27	3 17.35	+33 30.8	2.128	2.935	12.9	20.0	12 27	3 18.69	+25 50.4	1.599	2.422	15.7	21.1
<b>227136</b>	2005 OL <sub>14</sub>		11 21.6 97°86	1°3/22.2	18		<b>200557</b>	2001 KH <sub>42</sub>		11 21.6 196°77	1°1/22.2	18	
10 18	4 21.99	+24 44.4	1.637	2.460	16.1	21.1	10 18	4 16.68	+24 43.1	2.159	2.975	12.9	20.8
10 28	4 15.12	+24 37.0	1.582	2.483	12.1	20.9	10 28	4 10.93	+24 30.1	2.075	2.973	9.8	20.6
11 7	4 5.60	+24 18.8	1.550	2.506	7.6	20.7	11 7	4 3.04	+24 8.0	2.016	2.971	6.2	20.4
11 17	3 54.46	+23 50.0	1.544	2.528	2.9	20.5	11 17	3 53.74	+23 37.1	1.985	2.968	2.4	20.1
11 27	3 43.08	+23 13.3	1.567	2.549	2.7	20.5	11 27	3 43.99	+22 59.6	1.983	2.965	2.2	20.1
12 7	3 32.84	+22 33.6	1.619	2.570	7.2	20.8	12 7	3 34.89	+22 19.0	2.010	2.961	6.1	20.3
12 17	3 24.82	+21 56.4	1.697	2.591	11.3	21.1	12 17	3 27.33	+21 39.6	2.066	2.957	9.7	20.6
12 27	3 19.68	+21 26.5	1.799	2.611	14.7	21.4	12 27	3 21.99	+21 5.9	2.147	2.953	12.9	20.8
<b>333583</b>	2006 XE <sub>27</sub>		11 21.6 297°99	5°5/23.9	18		<b>196743</b>	2003 SY <sub>137</sub>		11 21.6 10°41	3°5/19.3	18	
10 18	4 18.80	+33 4.0	1.460	2.277	18.0	20.3	10 18	4 11.04	+14 37.0	1.907	2.752	13.2	18.8
10 28	4 13.86	+33 26.0	1.378	2.266	14.5	20.1	10 28	4 6.72	+13 16.5	1.839	2.754	9.9	18.6
11 7	4 5.50	+33 29.6	1.315	2.255	10.4	19.8	11 7	4 0.42	+11 52.0	1.796	2.756	6.3	18.4
11 17	3 54.61	+33 10.8	1.275	2.244	6.7	19.6	11 17	3 52.87	+10 28.8	1.780	2.759	3.6	18.2
11 27	3 42.79	+32 28.8	1.261	2.233	5.7	19.5	11 27	3 45.02	+9 13.0	1.793	2.762	4.8	18.3
12 7	3 31.88	+31 28.7	1.273	2.223	8.9	19.7	12 7	3 37.86	+8 10.0	1.834	2.765	8.2	18.5
12 17	3 23.44	+30 19.0	1.310	2.212	13.2	19.9	12 17	3 32.20	+7 23.7	1.901	2.769	11.6	18.7
12 27	3 18.51	+29 10.0	1.368	2.202	17.3	20.1	12 27	3 28.64	+6 55.7	1.990	2.774	14.5	18.9
<b>281399</b>	2008 RU <sub>29</sub>		11 21.6 195°37	1°3/22.3	18		<b>22958</b>	Rohatgi		11 21.7 125°76	0°7/21.3	18	
10 18	4 18.90	+24 33.4	1.876	2.697	14.4	21.3	10 18	4 14.45	+18 50.1	2.266	3.094	12.0	19.5
10 28	4 12.89	+24 31.4	1.795	2.695	11.0	21.1	10 28	4 9.05	+18 38.2	2.193	3.099	9.0	19.3
11 7	4 4.38	+24 19.9	1.738	2.693	7.0	20.9	11 7	4 1.79	+18 22.3	2.144	3.104	5.5	19.1
11 17	3 54.15	+23 58.8	1.707	2.691	2.8	20.6	11 17	3 53.31	+18 3.5	2.123	3.108	1.8	18.8
11 27	3 43.38	+23 29.7	1.706	2.688	2.6	20.6	11 27	3 44.51	+17 44.0	2.132	3.113	2.3	18.9
12 7	3 33.34	+22 56.2	1.733	2.685	6.8	20.8	12 7	3 36.29	+17 26.4	2.170	3.118	6.0	19.1
12 17	3 25.13	+22 23.2	1.788	2.681	10.8	21.1	12 17	3 29.45	+17 13.4	2.237	3.122	9.3	19.3
12 27	3 19.50	+21 55.5	1.866	2.677	14.3	21.3	12 27	3 24.60	+17 7.2	2.328	3.126	12.2	19.5
<b>329708</b>	2003 UJ <sub>355</sub>		11 21.6 294°43	2°3/20.9	18		<b>285222</b>	1997 KD <sub>2</sub>		11 21.7 49°81	6°5/17.8	18	
10 18	4 18.54	+15 28.3	1.359	2.210	17.2	21.3	10 18	4 12.67	+5 32.7	1.831	2.672	13.9	20.1
10 28	4 13.33	+15 20.0	1.285	2.202	13.0	21.0	10 28	4 7.73	+4 2.3	1.791	2.695	10.8	20.0
11 7	4 5.00	+15 10.0	1.232	2.195	8.1	20.7	11 7	4 0.91	+2 38.1	1.775	2.718	8.0	19.9
11 17	3 54.42	+15 0.2	1.204	2.189	3.2	20.4	11 17	3 52.99	+1 26.6	1.786	2.742	6.5	19.8
11 27	3 43.05	+14 53.7	1.202	2.182	4.2	20.5	11 27	3 44.96	+0 33.3	1.825	2.766	7.5	20.0
12 7	3 32.53	+14 54.0	1.226	2.175	9.3	20.8	12 7	3 37.75	+0 1.3	1.890	2.790	10.0	20.2
12 17	3 24.26	+15 3.8	1.275	2.169	14.2	21.0	12 17	3 32.13	+0 8.8	1.979	2.815	12.6	20.4
12 27	3 19.19	+15 25.2	1.344	2.162	18.4	21.3	12 27	3 28.60	+0 1.2	2.090	2.839	15.0	20.6
<b>466630</b>	2014 WE <sub>19</sub>		11 21.6 354°47	11°4/15.9	16		<b>162281</b>	1999 VF <sub>62</sub>		11 21.7 10°86	0°2/21.7	18	
10 18	4 9.37	-7 24.2	1.671	2.496	15.7	20.4	10 18	4 14.52	+21 38.4	1.376	2.227	17.0	19.5
10 28	4 5.73	-8 40.9	1.617	2.489	13.6	20.2	10 28	4 10.20	+21 27.1	1.312	2.229	12.8	19.3
11 7	3 59.93	-9 40.3	1.583	2.483	12.0	20.1	11 7	4 2.97	+21 6.9	1.268	2.232	7.9	19.0
11 17	3 52.71	-10 14.5	1.571	2.479	11.4	20.1	11 17	3 53.77	+20 39.1	1.249	2.235	2.6	18.7
11 27	3 45.09	-10 18.0	1.583	2.475	12.2	20.1	11 27	3 44.02	+20 6.9	1.256	2.239	2.9	18.7
12 7	3 38.15	-9 49.6	1.618	2.473	14.0	20.2	12 7	3 35.24	+19 35.6	1.289	2.244	8.2	19.1
12 17	3 32.79	-8 51.4	1.673	2.472	16.2	20.4	12 17	3 28.66	+19 10.1	1.347	2.250	12.9	19.4
12 27	3 29.70	-7 28.5	1.747	2.472	18.4	20.5	12 27	3 25.10	+18 54.6	1.425	2.257	16.8	19.6
<b>115604</b>	2003 UE <sub>100</sub>		11 21.6 39°25	2°8/20.3	18		<b>488213</b>	2015 XP <sub>311</sub>		11 21.7 355°82	4°5/19.9	18	
10 18	4 12.86	+12 58.7	2.004	2.843	12.9	19.4	10 18	4 14.78	+7 29.0	1.905	2.742	13.6	21.3
10 28	4 7.95	+12 33.4	1.941	2.852	9.7	19.2	10 28	4 9.57	+7 17.6	1.834	2.740	10.4	21.1
11 7	4 1.12	+12 8.3	1.902	2.861	6.1	19.1	11 7	4 2.25	+7 11.6	1.787	2.739	7.1	20.9
11 17	3 53.06	+11 46.0	1.890	2.871	3.1	18.9	11 17	3 53.50	+7 13.8	1.766	2.738	4.7	20.7
11 27	3 44.70	+11 29.5	1.907	2.881	4.0	19.0	11 27	3 44.32	+7 26.9	1.773	2.738	5.4	20.8
12 7	3 37.02	+11 21.3	1.953	2.891	7.3	19.2	12 7	3 35.75	+7 52.0	1.808	2.737	8.4	21.0
12 17	3 30.81	+11 23.1	2.025	2.901	10.6	19.4	12 17	3 28.73	+8 29.2	1.870	2.737	11.8	21.2
12 27	3 26.67	+11 35.7	2.120	2.912	13.5	19.6	12 27	3 23.92	+9 17.6	1.954	2.738	14.7	21.4
<b>160386</b>	2004 JX <sub>37</sub>		11 21.6 184°13	4°8/19.5	18		<b>325828</b>	2010 SY <sub>9</sub>		11 21.7 55°65	4°0/22.9	18	
10 18	4 18.73	+6 45.9	2.082	2.905	13.1	20.9	10 18	4 22.42	+27 26.1	1.201	2.040	19.8	20.4
10 28	4 12.29	+6 14.9	2.009	2.906	10.1	20.7	10 28	4 16.63	+28 7.3	1.147	2.052	15.3	20.2
11 7	4 3.80	+5 48.4	1.959	2.906	7.0	20.5	11 7	4 7.15	+28 34.4	1.112	2.065	10.3	20.0
11 17	3 53.94	+5 29.9	1.938	2.905	5.0	20.4	11 17	3 55.14	+28 43.8	1.100	2.078	5.4	19.7
11 27	3 43.69	+5 22.6	1.946	2.904	5.8	20.4	11 27	3 42.50	+28 35.1	1.113	2.092	4.7	19.7
12 7	3 34.07	+5 28.6	1.984	2.901	8.6	20.6	12 7	3 31.23	+28 12.9	1.152	2.106	9.1	20.0
12 17	3 25.96	+5 48.5	2.048	2.898	11.7	20.8	12 17	3 22.89	+27 44.5	1.214	2.120	13.8	20.3
12 27	3 20.01	+6 21.6	2.135	2.894	14.4	21.0	12 27	3 18.37	+27 18.0	1.298	2.134	17.9	20.6
<b>4139</b>	Ul'yanin		11 21.6 84°41	0°7/21.3	18		<b>336669</b>	2009 YN <sub>24</sub>		11 21.7 66°02	4°1/23.6	18	
10 18	4 14.03	+19 2.3	2.305										

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>15139</b>	Connormcarty		11 21.7 294°82	3°7/19.5	18		<b>402</b>	Chloë		11 21.7 281°53	7°1/18.5	18	
10 18	4 13.26	+14 16.4	1.762	2.607	14.1	19.0	10 18	4 15.23	+ 3 29.7	1.733	2.569	14.7	13.1
10 28	4 8.72	+13 8.0	1.678	2.593	10.7	18.8	10 28	4 10.18	+ 2 38.6	1.657	2.557	11.7	12.9
11 7	4 1.87	+11 54.9	1.618	2.579	6.9	18.5	11 7	4 2.77	+ 1 54.6	1.604	2.545	8.8	12.7
11 17	3 53.42	+10 41.8	1.585	2.564	3.9	18.3	11 17	3 53.74	+ 1 23.5	1.576	2.533	7.1	12.5
11 27	3 44.42	+ 9 35.1	1.580	2.550	5.1	18.4	11 27	3 44.13	+ 1 10.5	1.575	2.521	8.1	12.6
12 7	3 36.05	+ 8 40.6	1.603	2.537	8.9	18.5	12 7	3 35.15	+ 1 18.5	1.600	2.509	10.9	12.7
12 17	3 29.31	+ 8 2.7	1.651	2.523	12.8	18.8	12 17	3 27.80	+ 1 47.6	1.650	2.497	14.2	12.9
12 27	3 24.96	+ 7 43.4	1.720	2.509	16.2	19.0	12 27	3 22.88	+ 2 36.0	1.720	2.484	17.2	13.1
<b>292012</b>	2006 QE <sub>136</sub>		11 21.7 84°52	2°0/20.8	16		<b>380508</b>	2004 EU <sub>111</sub>		11 21.7 313°91	6°8/19.2	18	
10 18	4 19.92	+18 4.5	1.373	2.219	17.3	21.1	10 18	4 14.31	+ 8 9.3	1.250	2.112	17.7	20.5
10 28	4 13.87	+17 20.9	1.322	2.238	12.9	20.9	10 28	4 10.45	+ 7 15.8	1.171	2.090	13.8	20.2
11 7	4 4.99	+16 31.2	1.293	2.256	7.9	20.7	11 7	4 3.44	+ 6 25.2	1.112	2.069	9.7	19.9
11 17	3 54.36	+15 39.2	1.289	2.274	2.9	20.4	11 17	3 54.06	+ 5 44.7	1.075	2.048	6.9	19.7
11 27	3 43.47	+14 50.4	1.312	2.292	4.0	20.6	11 27	3 43.71	+ 5 21.5	1.064	2.027	8.3	19.7
12 7	3 33.81	+14 10.4	1.362	2.309	8.8	20.9	12 7	3 34.02	+ 5 21.1	1.076	2.008	12.5	19.9
12 17	3 26.50	+13 43.4	1.438	2.327	13.2	21.2	12 17	3 26.49	+ 5 45.2	1.109	1.989	17.1	20.1
12 27	3 22.21	+13 31.9	1.534	2.344	16.9	21.5	12 27	3 22.20	+ 6 32.6	1.161	1.971	21.3	20.3
<b>60537</b>	2000 ED <sub>59</sub>		11 21.7 244°65	0°0/21.7	18		<b>76904</b>	2000 YO <sub>112</sub>		11 21.7 351°26	2°0/22.3	18	
10 18	4 18.15	+21 44.3	1.750	2.580	14.9	20.8	10 18	4 16.52	+24 14.1	1.145	2.001	19.4	19.1
10 28	4 12.56	+21 25.8	1.662	2.569	11.3	20.5	10 28	4 12.46	+24 27.8	1.078	1.996	14.9	18.8
11 7	4 4.34	+20 58.6	1.597	2.557	7.0	20.3	11 7	4 4.79	+24 29.8	1.031	1.992	9.6	18.5
11 17	3 54.24	+20 23.6	1.559	2.544	2.3	20.0	11 17	3 54.49	+24 18.9	1.005	1.989	3.9	18.2
11 27	3 43.47	+19 43.8	1.549	2.532	2.6	20.0	11 27	3 43.31	+23 56.6	1.004	1.987	3.6	18.1
12 7	3 33.37	+19 3.7	1.568	2.519	7.5	20.2	12 7	3 33.20	+23 28.0	1.028	1.986	9.2	18.5
12 17	3 25.11	+18 28.3	1.613	2.505	11.9	20.5	12 17	3 25.80	+23 0.0	1.074	1.985	14.6	18.8
12 27	3 19.55	+18 2.2	1.681	2.491	15.7	20.7	12 27	3 22.12	+22 39.4	1.140	1.986	19.2	19.0
<b>367870</b>	2011 DL <sub>18</sub>		11 21.7 330°89	2°0/22.7	17		<b>496779</b>	2017 DX <sub>115</sub>		11 21.7 264°50	5°3/18.8	17	
10 18	4 14.08	+26 3.9	2.056	2.877	13.3	20.7	10 18	4 13.19	+ 4 7.3	2.346	3.171	11.7	21.4
10 28	4 9.22	+26 15.3	1.972	2.870	10.2	20.5	10 28	4 8.10	+ 3 32.0	2.264	3.159	9.2	21.2
11 7	4 2.14	+26 17.8	1.910	2.863	6.7	20.3	11 7	4 1.25	+ 3 2.2	2.206	3.146	6.8	21.0
11 17	3 53.50	+26 10.7	1.876	2.856	3.1	20.1	11 17	3 53.21	+ 2 41.6	2.176	3.134	5.4	20.9
11 27	3 44.33	+25 54.9	1.869	2.850	2.7	20.0	11 27	3 44.76	+ 2 33.5	2.174	3.121	6.1	20.9
12 7	3 35.72	+25 32.9	1.892	2.844	6.3	20.2	12 7	3 36.75	+ 2 39.9	2.201	3.108	8.4	21.1
12 17	3 28.67	+25 8.7	1.941	2.838	9.9	20.4	12 17	3 29.94	+ 3 1.3	2.254	3.095	11.1	21.2
12 27	3 23.91	+24 46.6	2.015	2.833	13.1	20.6	12 27	3 24.94	+ 3 36.8	2.330	3.081	13.6	21.4
<b>43581</b>	2001 KS <sub>52</sub>		11 21.7 111°22	0°5/21.9	18		<b>146793</b>	2001 YP <sub>30</sub>		11 21.7 140°49	1°9/20.9	18	
10 18	4 16.09	+24 2.6	1.875	2.702	14.2	18.9	10 18	4 17.70	+13 39.7	2.245	3.070	12.2	20.2
10 28	4 10.63	+23 27.6	1.804	2.708	10.7	18.7	10 28	4 11.47	+13 47.1	2.173	3.076	9.2	20.0
11 7	4 2.90	+22 42.0	1.756	2.714	6.7	18.5	11 7	4 3.30	+13 55.0	2.125	3.083	5.7	19.8
11 17	3 53.70	+21 47.7	1.734	2.719	2.3	18.2	11 17	3 53.86	+14 4.5	2.106	3.089	2.4	19.6
11 27	3 44.17	+20 48.2	1.742	2.725	2.3	18.2	11 27	3 44.05	+14 16.6	2.117	3.094	3.0	19.7
12 7	3 35.45	+19 48.9	1.779	2.731	6.7	18.5	12 7	3 34.83	+14 32.8	2.158	3.100	6.4	19.9
12 17	3 28.49	+18 55.2	1.844	2.736	10.6	18.8	12 17	3 27.02	+14 53.9	2.228	3.105	9.7	20.1
12 27	3 23.95	+18 11.6	1.931	2.741	13.9	19.0	12 27	3 21.26	+15 21.0	2.322	3.110	12.6	20.3
<b>181289</b>	2006 OF <sub>17</sub>		11 21.7 45°58	6°3/19.7	18	R	<b>267575</b>	2002 QJ <sub>102</sub>		11 21.7 356°31	2°0/20.8	17	
10 18	4 18.49	+ 9 39.3	1.033	1.900	20.1	19.4	10 18	4 14.55	+13 42.1	2.213	3.044	12.1	20.3
10 28	4 13.13	+ 8 41.0	1.003	1.926	15.2	19.2	10 28	4 9.21	+13 44.3	2.136	3.044	9.1	20.1
11 7	4 4.59	+ 7 48.7	0.992	1.952	10.1	19.0	11 7	4 1.97	+13 47.0	2.084	3.043	5.7	19.9
11 17	3 54.22	+ 7 9.3	1.004	1.979	6.6	18.9	11 17	3 53.45	+13 51.4	2.060	3.043	2.5	19.7
11 27	3 43.75	+ 6 48.8	1.040	2.007	7.7	19.0	11 27	3 44.52	+13 59.1	2.065	3.042	3.1	19.7
12 7	3 34.85	+ 6 50.2	1.099	2.035	11.8	19.4	12 7	3 36.12	+14 11.5	2.100	3.042	6.5	19.9
12 17	3 28.67	+ 7 12.7	1.180	2.064	16.0	19.7	12 17	3 29.08	+14 29.9	2.162	3.042	9.8	20.1
12 27	3 25.79	+ 7 53.6	1.281	2.093	19.5	20.0	12 27	3 24.02	+14 55.0	2.249	3.043	12.7	20.3
<b>368822</b>	2006 BS <sub>94</sub>		11 21.7 165°33	7°8/15.0	18		<b>403145</b>	2008 ES <sub>162</sub>		11 21.7 92°55	0°8/22.1	18	
10 18	4 11.27	-11 19.1	3.225	3.994	10.1	22.2	10 18	4 15.67	+23 13.7	2.045	2.869	13.3	21.6
10 28	4 6.12	-12 23.5	3.174	4.000	8.9	22.1	10 28	4 10.22	+23 8.0	1.973	2.876	10.0	21.4
11 7	3 59.76	-13 16.0	3.147	4.005	8.0	22.1	11 7	4 2.63	+22 54.6	1.925	2.882	6.3	21.2
11 17	3 52.66	-13 52.8	3.146	4.009	7.8	22.1	11 17	3 53.66	+22 34.0	1.904	2.888	2.3	21.0
11 27	3 45.37	-14 10.9	3.172	4.013	8.3	22.1	11 27	3 44.31	+22 8.1	1.912	2.895	2.2	21.0
12 7	3 38.49	-14 9.6	3.223	4.016	9.3	22.2	12 7	3 35.66	+21 40.3	1.949	2.901	6.2	21.2
12 17	3 32.53	-13 49.3	3.298	4.019	10.5	22.3	12 17	3 28.60	+21 14.3	2.014	2.907	9.8	21.5
12 27	3 27.90	-13 12.3	3.393	4.022	11.7	22.4	12 27	3 23.80	+20 53.7	2.103	2.913	12.9	21.7
<b>243483</b>	2009 TW <sub>17</sub>		11 21.7 82°31	7°0/17.5	18		<b>267854</b>	2003 UG <sub>318</sub>		11 21.7 42°73	4°8/18.8	18	
10 18	4 13.25	- 0 21.1	2.256	3.075	12.4	20.3	10 18	4 11.69	+ 8 4.1	2.100	2.938	12.5	20.9
10 28	4 7.87	- 1 29.6	2.214	3.097	10.0	20.2	10 28	4 7.02	+ 7 5.8	2.038	2.944	9.5	20.7
11 7	4 0.92	- 2 28.5	2.198	3.120	7.9	20.1	11 7	4 0.56	+ 6 10.2	1.999	2.949	6.7	20.6
11 17	3 53.03	- 3 13.1	2.208	3.142	7.0	20.1	11 17	3 52.97	+ 5 21.9	1.988	2.955	4.9	20.5
11 27	3 45.01	- 3 39.6	2.245	3.164	7.8	20.2	11 27	3 45.11	+ 4 45.1	2.005	2.961	5.8	20.5
12 7	3 37.68	- 3 46.3	2.310	3.186	9.5	20.4	12 7	3 37.87	+ 4 22.9	2.051	2.967	8.4	20.7
12 17	3 31.67	- 3 33.8	2.400	3.207	11.6	20.5	12 17	3 31.98	+ 4 16.7	2.121	2.973	11.3	20.9
12 27	3 27.46	- 3 4.2	2.511	3.229	13.6	20.7	12 27	3 28.01	+ 4 26.3	2.215	2.980	13.8	21.1
<b>20683</b>	1999 VT <sub>44</sub>		11 21.7 231°38	1°2/22.4	18		<b>67127</b>	2000 AM <sub>136</sub>		11 21.7 221°40	0°6/21.9	18	
10 18	4 17.03	+											



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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>446461</b>	2014 <i>JM</i> <sub>70</sub>		11 21.7 95°03	0°6/21.9	18		<b>444415</b>	2006 <i>AK</i> <sub>65</sub>		11 21.7 194°38	0°4/21.9	18	
10 18	4 19.10	+21 38.7	2.064	2.884	13.3	21.7	10 18	4 18.12	+22 36.7	2.001	2.822	13.6	22.2
10 28	4 12.63	+21 51.9	2.003	2.903	10.0	21.6	10 28	4 12.16	+22 22.6	1.919	2.821	10.3	22.0
11 7	4 4.04	+21 59.3	1.966	2.923	6.2	21.4	11 7	4 3.91	+22 0.6	1.861	2.819	6.4	21.8
11 17	3 54.10	+22 0.8	1.957	2.942	2.2	21.2	11 17	3 54.12	+21 31.1	1.831	2.816	2.2	21.5
11 27	3 43.87	+21 57.4	1.978	2.960	2.2	21.2	11 27	3 43.85	+20 56.6	1.830	2.813	2.3	21.5
12 7	3 34.42	+21 51.4	2.029	2.979	6.1	21.5	12 7	3 34.25	+20 20.8	1.859	2.809	6.5	21.8
12 17	3 26.64	+21 45.7	2.107	2.997	9.6	21.7	12 17	3 26.32	+19 48.0	1.915	2.805	10.4	22.0
12 27	3 21.17	+21 43.4	2.211	3.015	12.6	22.0	12 27	3 20.77	+19 22.2	1.996	2.800	13.7	22.2
<b>34296</b>	2000 <i>QT</i> <sub>153</sub>		11 21.7 117°46	4°5/23.7	18		<b>3131</b>	Mason-Dixon		11 21.7 231°15	0°3/21.8	18	R
10 18	4 22.07	+31 32.9	1.422	2.240	18.4	19.4	10 18	4 14.96	+21 44.6	2.191	3.015	12.5	16.8
10 28	4 16.06	+31 41.9	1.355	2.246	14.5	19.1	10 28	4 9.64	+21 38.9	2.109	3.012	9.4	16.6
11 7	4 6.69	+31 32.4	1.308	2.253	10.0	18.9	11 7	4 2.30	+21 27.0	2.051	3.009	5.9	16.4
11 17	3 55.05	+31 1.8	1.285	2.259	5.8	18.7	11 17	3 53.59	+21 9.4	2.021	3.006	2.0	16.2
11 27	3 42.81	+30 11.3	1.289	2.265	4.8	18.6	11 27	3 44.45	+20 48.1	2.020	3.003	2.1	16.2
12 7	3 31.77	+29 7.2	1.319	2.271	8.5	18.9	12 7	3 35.87	+20 25.7	2.049	2.999	6.0	16.4
12 17	3 23.36	+27 58.7	1.375	2.276	12.8	19.1	12 17	3 28.72	+20 5.7	2.106	2.996	9.6	16.6
12 27	3 18.43	+26 54.7	1.453	2.282	16.7	19.4	12 27	3 23.69	+19 51.1	2.187	2.992	12.6	16.8
<b>190125</b>	2004 <i>XZ</i> <sub>177</sub>		11 21.7 177°83	0°6/22.1	18		<b>162318</b>	1999 <i>XQ</i> <sub>25</sub>		11 21.7 167°0	2°0/21.2	18	
10 18	4 13.57	+24 31.3	2.428	3.244	11.7	20.2	10 18	4 17.27	+13 51.6	1.233	2.092	18.1	18.7
10 28	4 8.37	+24 1.3	2.346	3.245	8.8	20.0	10 28	4 12.45	+14 19.1	1.177	2.098	13.6	18.4
11 7	4 1.39	+23 22.5	2.290	3.245	5.5	19.8	11 7	4 4.47	+14 49.1	1.141	2.106	8.5	18.2
11 17	3 53.26	+22 36.2	2.261	3.246	2.0	19.6	11 17	3 54.35	+15 22.1	1.129	2.114	3.2	17.9
11 27	3 44.82	+21 45.0	2.263	3.246	1.9	19.6	11 27	3 43.63	+15 58.5	1.143	2.124	3.9	18.0
12 7	3 36.96	+20 52.7	2.295	3.246	5.4	19.8	12 7	3 33.97	+16 38.8	1.183	2.135	9.1	18.3
12 17	3 30.43	+20 3.4	2.356	3.245	8.7	20.0	12 17	3 26.71	+17 23.6	1.246	2.147	13.9	18.6
12 27	3 25.80	+19 20.9	2.442	3.245	11.6	20.2	12 27	3 22.72	+18 13.4	1.330	2.161	17.9	18.9
<b>452060</b>	2014 <i>OV</i> <sub>304</sub>		11 21.7 291°57	0°9/21.2	18		<b>131755</b>	2002 <i>AN</i> <sub>1</sub>		11 21.7 231°45	1°2/21.1	18	
10 18	4 14.86	+18 15.1	2.017	2.850	13.1	21.5	10 18	4 16.95	+18 45.0	1.907	2.739	13.8	20.1
10 28	4 9.65	+18 2.3	1.940	2.849	9.8	21.3	10 28	4 11.39	+18 17.1	1.822	2.730	10.4	19.8
11 7	4 2.33	+17 45.6	1.887	2.847	6.0	21.0	11 7	4 3.51	+17 43.4	1.761	2.721	6.4	19.6
11 17	3 53.59	+17 26.2	1.861	2.846	2.0	20.8	11 17	3 54.02	+17 5.7	1.727	2.712	2.2	19.3
11 27	3 44.42	+17 6.6	1.864	2.845	2.6	20.8	11 27	3 43.98	+16 27.4	1.722	2.702	2.9	19.3
12 7	3 35.87	+16 49.7	1.896	2.844	6.6	21.1	12 7	3 34.57	+15 52.5	1.746	2.692	7.2	19.6
12 17	3 28.84	+16 38.5	1.955	2.843	10.4	21.3	12 17	3 26.80	+15 25.2	1.797	2.682	11.3	19.8
12 27	3 24.01	+16 35.2	2.038	2.842	13.5	21.5	12 27	3 21.44	+15 8.4	1.871	2.671	14.7	20.0
<b>72807</b>	2001 <i>GG</i> <sub>5</sub>		11 21.7 151°87	2°7/23.2	18		<b>145479</b>	2005 <i>TE</i> <sub>124</sub>		11 21.7 359°36	0°9/22.1	18	
10 18	4 17.52	+29 1.4	2.761	3.552	11.1	19.0	10 18	4 14.88	+23 21.4	1.895	2.725	14.0	20.3
10 28	4 11.24	+29 29.7	2.681	3.559	8.6	18.9	10 28	4 9.87	+23 15.9	1.819	2.724	10.6	20.0
11 7	4 3.15	+29 49.7	2.625	3.565	5.9	18.7	11 7	4 2.56	+23 2.2	1.766	2.724	6.6	19.8
11 17	3 53.85	+30 0.0	2.599	3.571	3.4	18.6	11 17	3 53.70	+22 40.7	1.739	2.724	2.4	19.5
11 27	3 44.14	+30 0.4	2.603	3.576	3.0	18.5	11 27	3 44.37	+22 13.3	1.741	2.724	2.3	19.5
12 7	3 34.94	+29 52.5	2.637	3.582	5.2	18.7	12 7	3 35.73	+21 43.7	1.771	2.724	6.5	19.8
12 17	3 27.01	+29 39.0	2.701	3.586	7.9	18.9	12 17	3 28.76	+21 16.1	1.828	2.725	10.5	20.1
12 27	3 20.97	+29 23.6	2.791	3.591	10.4	19.1	12 27	3 24.19	+20 54.4	1.909	2.725	13.8	20.3
<b>20963</b>	Pisarenko		11 21.7 112°06	6°5/25.3	18		<b>449515</b>	2014 <i>GE</i> <sub>49</sub>		11 21.7 208°68	12°0/11.2	18	
10 18	4 23.32	+38 50.5	2.052	2.817	15.3	17.7	10 18	4 14.59	-15 52.3	2.311	3.072	13.9	21.3
10 28	4 16.30	+39 29.3	1.986	2.833	12.6	17.5	10 28	4 9.15	-17 55.3	2.262	3.066	12.7	21.3
11 7	4 6.53	+39 50.2	1.941	2.849	9.7	17.3	11 7	4 1.91	-19 40.5	2.235	3.060	12.0	21.2
11 17	3 54.96	+39 49.2	1.922	2.864	7.3	17.2	11 17	3 53.46	-21 0.4	2.233	3.054	12.1	21.2
11 27	3 42.93	+39 25.4	1.930	2.879	6.5	17.2	11 27	3 44.65	-21 49.3	2.254	3.047	12.9	21.2
12 7	3 31.87	+38 42.3	1.966	2.894	7.9	17.3	12 7	3 36.37	-22 5.6	2.297	3.039	14.1	21.3
12 17	3 22.96	+37 46.3	2.029	2.908	10.5	17.5	12 17	3 29.41	-21 50.7	2.359	3.031	15.4	21.4
12 27	3 16.94	+36 45.3	2.117	2.922	13.0	17.7	12 27	3 24.37	-21 8.4	2.437	3.022	16.7	21.5
<b>13435</b>	Rohret		11 21.7 148°46	0°4/21.5	18		<b>111383</b>	2001 <i>XN</i> <sub>154</sub>		11 21.7 274°62	0°9/21.2	18	
10 18	4 20.89	+19 43.2	1.783	2.610	14.8	19.2	10 18	4 14.85	+18 22.6	2.030	2.862	13.0	20.0
10 28	4 14.32	+19 35.0	1.714	2.619	11.1	19.0	10 28	4 9.67	+18 10.3	1.950	2.858	9.8	19.8
11 7	4 5.25	+19 21.2	1.668	2.627	6.8	18.7	11 7	4 2.37	+17 53.8	1.893	2.854	6.0	19.5
11 17	3 54.54	+19 2.5	1.649	2.635	2.2	18.4	11 17	3 53.64	+17 34.6	1.864	2.849	2.0	19.3
11 27	3 43.40	+18 41.4	1.660	2.642	2.7	18.5	11 27	3 44.43	+17 15.0	1.864	2.845	2.6	19.3
12 7	3 33.12	+18 21.3	1.700	2.648	7.2	18.8	12 7	3 35.81	+16 57.8	1.893	2.840	6.6	19.6
12 17	3 24.75	+18 5.9	1.766	2.654	11.3	19.1	12 17	3 28.70	+16 46.2	1.949	2.836	10.4	19.8
12 27	3 19.02	+17 58.4	1.857	2.659	14.7	19.3	12 27	3 23.79	+16 42.4	2.028	2.832	13.6	20.0
<b>268224</b>	2005 <i>ET</i> <sub>13</sub>		11 21.7 272°14	2°5/20.2	18		<b>366170</b>	2012 <i>FV</i> <sub>79</sub>		11 21.7 96°94	4°8/18.8	18	
10 18	4 12.14	+13 14.8	2.441	3.272	11.1	20.4	10 18	4 12.41	+ 7 8.8	2.281	3.112	11.8	20.9
10 28	4 7.31	+12 46.9	2.354	3.261	8.4	20.2	10 28	4 7.40	+ 6 13.1	2.220	3.122	9.1	20.7
11 7	4 0.78	+12 18.2	2.292	3.249	5.3	20.0	11 7	4 0.75	+ 5 20.9	2.184	3.131	6.4	20.6
11 17	3 53.09	+11 51.1	2.258	3.238	2.8	19.8	11 17	3 53.06	+ 4 36.1	2.176	3.141	4.8	20.5
11 27	3 45.00	+11 28.2	2.253	3.226	3.5	19.8	11 27	3 45.15	+ 4 2.7	2.198	3.150	5.6	20.6
12 7	3 37.35	+11 12.3	2.279	3.214	6.5	20.0	12 7	3 37.82	+ 3 43.3	2.247	3.159	8.0	20.7
12 17	3 30.85	+11 5.4	2.331	3.203	9.6	20.2	12 17	3 31.77	+ 3 38.9	2.323	3.168	10.7	20.9
12 27	3 26.12	+11 8.5	2.408	3.191	12.3	20.4	12 27	3 27.53	+ 3 49.4	2.421	3.177	13.0	21.1
<b>282973</b>	2007 <i>TJ</i> <sub>11</sub>		11 21.7 56°72	0°9/21.3	16		<b>351425</b>	2005 <i>GT</i> <sub>65</sub>		11 21.7 127°31	4°0/1		

EPHEMERIDES

11 21.7

11 21.7

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>406707</b>	2008 <i>FO</i> <sub>39</sub>		11 21.7 303°27	2°1/22.5	17		<b>516367</b>	2017 <i>DQ</i> <sub>47</sub>		11 21.7 146°87	2°1/22.9	18	
10 18	4 16.96	+24 53.5	1.879	2.703	14.3	21.4	10 18	4 15.95	+27 32.3	2.607	3.408	11.4	21.6
10 28	4 11.68	+25 18.2	1.792	2.692	11.0	21.2	10 28	4 10.13	+27 45.3	2.528	3.414	8.8	21.5
11 7	4 3.85	+25 35.3	1.728	2.682	7.2	21.0	11 7	4 2.50	+27 49.9	2.474	3.420	5.8	21.3
11 17	3 54.19	+25 43.2	1.690	2.672	3.2	20.7	11 17	3 53.68	+27 45.5	2.448	3.426	3.0	21.1
11 27	3 43.82	+25 42.0	1.681	2.662	2.9	20.7	11 27	3 44.50	+27 32.6	2.453	3.431	2.6	21.1
12 7	3 34.01	+25 33.7	1.700	2.652	6.8	20.9	12 7	3 35.86	+27 13.5	2.487	3.436	5.2	21.3
12 17	3 25.92	+25 22.2	1.746	2.642	10.8	21.1	12 17	3 28.53	+26 51.1	2.551	3.440	8.1	21.5
12 27	3 20.42	+25 11.9	1.815	2.633	14.4	21.3	12 27	3 23.10	+26 29.1	2.640	3.445	10.8	21.7
<b>374693</b>	2006 <i>RB</i> <sub>4</sub>		11 21.7 347°25	7°8/24.1	18		<b>385735</b>	2005 <i>VQ</i> <sub>53</sub>		11 21.7 20°08	0°8/21.9	18	
10 18	4 18.74	+33 39.3	1.164	1.995	20.7	19.8	10 18	4 15.81	+21 30.0	1.078	1.942	19.7	20.1
10 28	4 14.69	+34 47.6	1.095	1.989	16.9	19.5	10 28	4 11.78	+21 44.8	1.027	1.950	14.9	19.8
11 7	4 6.52	+35 37.6	1.044	1.983	12.6	19.2	11 7	4 4.24	+21 51.0	0.995	1.960	9.3	19.6
11 17	3 55.20	+36 1.8	1.014	1.978	8.9	19.0	11 17	3 54.34	+21 48.5	0.985	1.971	3.2	19.3
11 27	3 42.66	+35 56.1	1.007	1.974	8.0	19.0	11 27	3 43.84	+21 39.4	0.999	1.983	3.3	19.3
12 7	3 31.22	+35 23.7	1.024	1.971	10.9	19.1	12 7	3 34.62	+21 28.1	1.038	1.996	9.1	19.7
12 17	3 22.84	+34 33.9	1.063	1.970	15.2	19.3	12 17	3 28.15	+21 19.7	1.098	2.010	14.3	20.0
12 27	3 18.73	+33 38.6	1.121	1.969	19.3	19.6	12 27	3 25.26	+21 18.8	1.179	2.026	18.6	20.3
<b>388174</b>	2006 <i>BQ</i> <sub>108</sub>		11 21.7 293°19	0°9/22.0	18		<b>5587</b>	1990 <i>SB</i>		11 21.7 84°43	6°6/18.3	18	A
10 18	4 17.01	+22 50.9	1.581	2.418	15.9	21.7	10 18	4 23.78	+ 4 2.2	1.952	2.765	14.2	18.3
10 28	4 12.08	+22 49.9	1.495	2.405	12.1	21.4	10 28	4 15.52	+ 2 31.7	1.928	2.815	11.0	18.2
11 7	4 4.27	+22 40.0	1.431	2.391	7.7	21.1	11 7	4 5.47	+ 1 9.7	1.930	2.863	8.1	18.1
11 17	3 54.36	+22 21.0	1.392	2.377	2.8	20.8	11 17	3 54.52	+ 0 2.1	1.960	2.909	6.6	18.1
11 27	3 43.63	+21 54.9	1.380	2.363	2.8	20.8	11 27	3 43.74	- 0 46.4	2.021	2.955	7.5	18.2
12 7	3 33.58	+21 25.7	1.396	2.350	7.8	21.0	12 7	3 34.10	- 1 13.7	2.110	2.998	9.7	18.4
12 17	3 25.52	+20 58.6	1.437	2.337	12.5	21.3	12 17	3 26.29	- 1 20.2	2.226	3.040	12.2	18.7
12 27	3 20.41	+20 38.6	1.500	2.323	16.6	21.5	12 27	3 20.77	- 1 8.1	2.363	3.081	14.3	18.9
<b>150227</b>	1998 <i>UT</i> <sub>41</sub>		11 21.7 21°97	1°0/21.9	18		<b>176092</b>	2000 <i>YK</i> <sub>108</sub>		11 21.7 316°24	1°9/21.1	18	
10 18	4 19.65	+19 54.8	1.171	2.026	19.1	19.3	10 18	4 17.72	+16 5.5	1.260	2.117	17.9	19.8
10 28	4 14.58	+20 39.9	1.114	2.032	14.5	19.1	10 28	4 13.09	+16 3.7	1.185	2.105	13.6	19.5
11 7	4 5.98	+21 21.0	1.076	2.039	9.0	18.8	11 7	4 5.13	+15 59.9	1.130	2.095	8.5	19.2
11 17	3 54.91	+21 55.8	1.062	2.047	3.2	18.5	11 17	3 54.71	+15 55.7	1.099	2.084	3.2	18.8
11 27	3 43.10	+22 23.6	1.073	2.056	3.3	18.5	11 27	3 43.35	+15 54.0	1.093	2.074	4.0	18.8
12 7	3 32.44	+22 45.8	1.109	2.066	9.0	18.9	12 7	3 32.81	+15 58.0	1.113	2.065	9.6	19.1
12 17	3 24.47	+23 5.6	1.169	2.076	14.1	19.2	12 17	3 24.63	+16 10.9	1.156	2.056	14.8	19.4
12 27	3 20.15	+23 27.3	1.250	2.088	18.3	19.5	12 27	3 19.86	+16 34.8	1.219	2.048	19.3	19.7
<b>401430</b>	2013 <i>CE</i> <sub>107</sub>		11 21.7 163°60	2°0/20.7	18		<b>194764</b>	2001 <i>YV</i> <sub>52</sub>		11 21.7 314°96	1°2/22.2	18	
10 18	4 15.49	+15 40.0	1.987	2.821	13.2	21.2	10 18	4 15.51	+23 53.6	1.413	2.258	17.0	20.2
10 28	4 10.09	+15 14.5	1.914	2.823	9.9	21.0	10 28	4 11.29	+23 48.3	1.328	2.241	13.1	19.9
11 7	4 2.60	+14 46.5	1.864	2.824	6.1	20.8	11 7	4 3.96	+23 31.8	1.265	2.225	8.3	19.6
11 17	3 53.72	+14 18.3	1.842	2.826	2.6	20.6	11 17	3 54.33	+23 3.8	1.225	2.210	3.1	19.3
11 27	3 44.45	+13 53.0	1.849	2.827	3.4	20.6	11 27	3 43.79	+22 26.8	1.212	2.195	3.0	19.2
12 7	3 35.83	+13 33.9	1.885	2.828	7.1	20.9	12 7	3 33.98	+21 45.8	1.224	2.180	8.4	19.5
12 17	3 28.75	+13 23.5	1.948	2.828	10.7	21.1	12 17	3 26.35	+21 7.4	1.262	2.167	13.4	19.8
12 27	3 23.88	+13 23.6	2.034	2.829	13.9	21.3	12 27	3 21.92	+20 37.7	1.320	2.153	17.8	20.0
<b>83324</b>	2001 <i>RX</i> <sub>127</sub>		11 21.7 112°17	4°5/23.7	18		<b>208533</b>	2001 <i>YO</i> <sub>125</sub>		11 21.7 11°44	2°7/22.5	18	
10 18	4 19.50	+31 56.4	1.994	2.792	14.5	20.0	10 18	4 17.08	+24 25.0	0.983	1.848	21.1	19.7
10 28	4 13.48	+32 33.4	1.918	2.795	11.5	19.9	10 28	4 13.28	+24 55.2	0.927	1.849	16.2	19.4
11 7	4 4.88	+32 57.6	1.864	2.799	8.2	19.7	11 7	4 5.48	+25 13.4	0.889	1.852	10.5	19.2
11 17	3 54.51	+33 6.2	1.836	2.803	5.3	19.5	11 17	3 54.83	+25 17.0	0.872	1.856	4.6	18.8
11 27	3 43.54	+32 58.5	1.837	2.806	4.7	19.5	11 27	3 43.31	+25 6.7	0.879	1.861	4.1	18.8
12 7	3 33.31	+32 36.8	1.866	2.809	7.1	19.6	12 7	3 33.13	+24 47.6	0.908	1.868	9.8	19.2
12 17	3 24.93	+32 6.1	1.922	2.813	10.3	19.8	12 17	3 26.03	+24 26.8	0.959	1.875	15.4	19.5
12 27	3 19.22	+31 32.5	2.002	2.816	13.4	20.0	12 27	3 23.02	+24 11.7	1.029	1.884	20.1	19.8
<b>458515</b>	2011 <i>CA</i> <sub>63</sub>		11 21.7 324°00	2°7/20.5	17		<b>441181</b>	2007 <i>TF</i> <sub>424</sub>		11 21.7 122°52	1°3/22.4	15	
10 18	4 12.91	+13 34.8	1.841	2.685	13.7	21.0	10 18	4 19.32	+24 25.2	2.061	2.875	13.5	22.3
10 28	4 8.47	+13 16.2	1.756	2.670	10.3	20.7	10 28	4 12.91	+24 29.5	1.993	2.889	10.3	22.2
11 7	4 1.79	+12 57.1	1.695	2.656	6.6	20.5	11 7	4 4.31	+24 25.6	1.950	2.903	6.5	22.0
11 17	3 53.51	+12 40.1	1.660	2.642	3.2	20.2	11 17	3 54.30	+24 13.1	1.933	2.916	2.6	21.7
11 27	3 44.65	+12 28.2	1.653	2.628	4.0	20.3	11 27	3 43.94	+23 53.4	1.947	2.929	2.4	21.7
12 7	3 36.32	+12 24.4	1.673	2.616	7.9	20.5	12 7	3 34.35	+23 29.7	1.991	2.941	6.1	22.0
12 17	3 29.52	+12 30.7	1.720	2.603	11.7	20.7	12 17	3 26.47	+23 5.8	2.062	2.953	9.7	22.3
12 27	3 25.02	+12 48.4	1.788	2.591	15.1	20.9	12 27	3 20.95	+22 45.8	2.158	2.964	12.8	22.5
<b>330205</b>	2006 <i>FR</i> <sub>16</sub>		11 21.7 228°23	1°7/20.7	18		<b>427614</b>	2003 <i>SR</i> <sub>422</sub>		11 21.7 250°35	0°4/17.9	14	C
10 18	4 13.42	+14 59.1	2.650	3.474	10.6	21.1	10 18	3 52.13	+ 2 12.4	40.056	40.870	0.8	23.3
10 28	4 8.15	+14 45.2	2.562	3.467	7.9	20.9	10 28	3 51.42	+ 2 8.7	39.984	40.869	0.6	23.3
11 7	4 1.27	+14 30.0	2.500	3.459	4.9	20.7	11 7	3 50.64	+ 2 5.5	39.939	40.868	0.5	23.3
11 17	3 53.29	+14 15.1	2.467	3.450	2.1	20.5	11 17	3 49.81	+ 2 2.9	39.923	40.866	0.4	23.3
11 27	3 44.93	+14 2.3	2.465	3.442	2.7	20.5	11 27	3 48.97	+ 2 1.1	39.936	40.865	0.5	23.3
12 7	3 36.99	+13 53.7	2.492	3.433	5.8	20.7	12 7	3 48.14	+ 2 0.1	39.978	40.864	0.6	23.3
12 17	3 30.16	+13 51.1	2.548	3.424	8.7	20.9	12 17	3 47.37	+ 2 0.0	40.048	40.863	0.8	23.3
12 27	3 25.00	+13 55.9	2.630	3.414	11.4	21.1	12 27	3 46.67	+ 2 0.9	40.143	40.861	0.9	23.3
<b>523741</b>	2014 <i>TY</i> <sub>85</sub>		11 21.7 7°04	0°2/23.1	18								

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>174258</b>	2002 RE <sub>216</sub>		11 21.7 11°33'	5°4'/23.2	18		<b>523607</b>	2005 CS <sub>6</sub>		11 21.7 234°38'	7°4'/27.3	18	
10 18	4 16.13	+28 23.5	1.170	2.018	19.6	18.8	10 18	4 27.89	+49 47.0	3.177	3.845	12.1	24.1
10 28	4 12.23	+29 34.1	1.114	2.022	15.4	18.5	10 28	4 19.54	+50 20.8	3.063	3.824	10.7	23.9
11 7	4 4.70	+30 31.6	1.077	2.029	10.7	18.3	11 7	4 8.60	+50 37.3	2.971	3.802	9.2	23.8
11 17	3 54.58	+31 10.7	1.062	2.037	6.5	18.1	11 17	3 55.81	+50 31.9	2.904	3.779	8.0	23.7
11 27	3 43.62	+31 28.8	1.071	2.047	5.8	18.1	11 27	3 42.32	+50 2.0	2.864	3.755	7.4	23.6
12 7	3 33.82	+31 28.5	1.105	2.058	9.5	18.3	12 7	3 29.42	+49 8.9	2.854	3.729	7.9	23.6
12 17	3 26.78	+31 16.1	1.161	2.071	13.9	18.6	12 17	3 18.27	+47 56.9	2.871	3.703	9.2	23.6
12 27	3 23.49	+30 59.7	1.238	2.086	17.8	18.9	12 27	3 9.70	+46 33.0	2.914	3.675	10.9	23.7
<b>35611</b>	1998 HU <sub>136</sub>		11 21.7 189°43'	0°6'/21.3	18		<b>159994</b>	2006 DJ <sub>140</sub>		11 21.7 65°08'	1°9'/20.7	18	
10 18	4 14.89	+18 29.2	2.923	3.738	10.0	19.9	10 18	4 13.78	+14 59.5	2.205	3.038	12.1	20.8
10 28	4 9.10	+18 17.9	2.837	3.736	7.4	19.8	10 28	4 8.64	+14 43.5	2.135	3.043	9.1	20.6
11 7	4 1.79	+18 3.3	2.777	3.734	4.6	19.6	11 7	4 1.67	+14 26.2	2.089	3.048	5.6	20.4
11 17	3 53.48	+17 46.4	2.747	3.732	1.5	19.4	11 17	3 53.49	+14 9.4	2.070	3.053	2.4	20.2
11 27	3 44.86	+17 28.8	2.748	3.728	1.9	19.4	11 27	3 44.99	+13 55.7	2.081	3.059	3.1	20.2
12 7	3 36.66	+17 12.5	2.780	3.725	5.0	19.6	12 7	3 37.06	+13 47.3	2.122	3.064	6.5	20.5
12 17	3 29.52	+16 59.6	2.842	3.720	7.8	19.8	12 17	3 30.50	+13 46.1	2.189	3.069	9.7	20.7
12 27	3 23.97	+16 52.0	2.930	3.715	10.3	19.9	12 27	3 25.90	+13 53.5	2.281	3.075	12.6	20.9
<b>227398</b>	2005 UW <sub>388</sub>		11 21.7 100°03'	2°0'/20.7	18		<b>283295</b>	2011 KK <sub>1</sub>		11 21.7 78°94'	1°8'/20.9	18	
10 18	4 18.56	+17 50.2	1.593	2.433	15.7	21.0	10 18	4 19.08	+17 22.9	1.635	2.473	15.4	21.1
10 28	4 12.67	+17 2.8	1.535	2.447	11.7	20.8	10 28	4 12.87	+16 47.5	1.587	2.498	11.4	20.9
11 7	4 4.27	+16 9.7	1.500	2.462	7.2	20.6	11 7	4 4.30	+16 7.9	1.561	2.522	7.0	20.7
11 17	3 54.31	+15 14.5	1.491	2.476	2.8	20.3	11 17	3 54.31	+15 27.2	1.563	2.547	2.6	20.5
11 27	3 44.07	+14 22.3	1.511	2.490	3.7	20.4	11 27	3 44.16	+14 49.4	1.592	2.571	3.5	20.6
12 7	3 34.83	+13 38.4	1.559	2.503	8.1	20.7	12 7	3 35.06	+14 18.9	1.650	2.595	7.7	20.9
12 17	3 27.61	+13 6.9	1.632	2.516	12.2	21.0	12 17	3 27.96	+13 58.8	1.734	2.619	11.6	21.2
12 27	3 23.07	+12 50.1	1.728	2.529	15.7	21.3	12 27	3 23.47	+13 51.0	1.841	2.642	14.9	21.5
<b>421522</b>	2014 OK <sub>112</sub>		11 21.7 204°37'	3°3'/23.6	16		<b>229398</b>	2005 SL <sub>140</sub>		11 21.7 117°96'	0°5'/21.5	18	
10 18	4 17.94	+31 9.8	2.327	3.120	12.8	22.3	10 18	4 20.47	+19 42.3	1.723	2.553	15.1	21.3
10 28	4 11.97	+31 18.5	2.239	3.116	10.1	22.1	10 28	4 14.04	+19 29.8	1.661	2.567	11.3	21.0
11 7	4 3.84	+31 15.4	2.174	3.112	7.0	21.9	11 7	4 5.13	+19 11.6	1.622	2.581	6.9	20.8
11 17	3 54.21	+30 58.8	2.137	3.108	4.2	21.7	11 17	3 54.62	+18 48.7	1.610	2.595	2.2	20.6
11 27	3 44.10	+30 29.4	2.129	3.103	3.6	21.6	11 27	3 43.77	+18 23.8	1.626	2.608	2.7	20.6
12 7	3 34.58	+29 49.9	2.151	3.098	6.1	21.8	12 7	3 33.85	+18 0.8	1.672	2.621	7.2	20.9
12 17	3 26.61	+29 5.1	2.201	3.092	9.2	22.0	12 17	3 25.90	+17 43.3	1.744	2.633	11.3	21.2
12 27	3 20.88	+28 20.2	2.277	3.086	12.1	22.2	12 27	3 20.61	+17 34.4	1.840	2.645	14.7	21.5
<b>471251</b>	2011 BG <sub>94</sub>		11 21.7 353°62'	3°7'/23.0	18		<b>369200</b>	2008 TU <sub>105</sub>		11 21.7 11°50'	1°7'/20.6	17	
10 18	4 16.29	+27 58.0	1.148	1.998	19.8	21.0	10 18	4 11.91	+17 0.0	2.273	3.106	11.8	21.7
10 28	4 12.44	+28 13.8	1.082	1.994	15.4	20.7	10 28	4 7.23	+16 18.1	2.197	3.107	8.8	21.5
11 7	4 4.89	+28 13.4	1.033	1.990	10.4	20.4	11 7	4 0.79	+15 32.2	2.147	3.107	5.4	21.3
11 17	3 54.68	+27 54.2	1.007	1.987	5.2	20.1	11 17	3 53.21	+14 45.0	2.124	3.108	2.2	21.1
11 27	3 43.59	+27 17.5	1.005	1.986	4.4	20.1	11 27	3 45.32	+14 0.0	2.131	3.109	3.0	21.1
12 7	3 33.62	+26 29.3	1.027	1.985	9.3	20.4	12 7	3 37.99	+13 21.0	2.168	3.110	6.4	21.3
12 17	3 26.42	+25 38.6	1.072	1.985	14.4	20.7	12 17	3 31.95	+12 50.8	2.232	3.111	9.6	21.5
12 27	3 23.01	+24 54.2	1.137	1.987	19.0	20.9	12 27	3 27.78	+12 31.6	2.320	3.112	12.4	21.7
<b>496602</b>	2015 DY <sub>112</sub>		11 21.7 99°68'	5°3'/23.7	16		<b>51180</b>	2000 HN <sub>73</sub>		11 21.7 307°48'	6°8'/19.3	18	
10 18	4 26.13	+31 39.0	1.511	2.318	18.0	21.4	10 18	4 15.79	+ 3 12.8	1.729	2.564	14.8	18.9
10 28	4 19.00	+32 28.6	1.452	2.335	14.2	21.2	10 28	4 10.69	+ 2 43.4	1.652	2.552	11.8	18.6
11 7	4 8.52	+33 2.4	1.415	2.352	10.1	21.0	11 7	4 3.21	+ 2 22.8	1.598	2.540	8.7	18.4
11 17	3 55.77	+33 15.7	1.401	2.369	6.4	20.8	11 17	3 54.07	+ 2 15.8	1.569	2.529	6.8	18.3
11 27	3 42.44	+33 7.3	1.415	2.385	5.6	20.8	11 27	3 44.32	+ 2 26.4	1.567	2.517	7.6	18.3
12 7	3 30.33	+32 41.0	1.456	2.401	8.5	21.0	12 7	3 35.18	+ 2 56.3	1.591	2.506	10.5	18.5
12 17	3 20.89	+32 4.1	1.523	2.417	12.3	21.3	12 17	3 27.69	+ 3 44.9	1.640	2.495	13.8	18.7
12 27	3 14.95	+31 25.1	1.613	2.432	15.8	21.5	12 27	3 22.63	+ 4 49.8	1.711	2.485	16.9	18.8
<b>277717</b>	2006 DR <sub>33</sub>		11 21.7 189°67'	1°4'/22.6	17		<b>75215</b>	1999 VG <sub>212</sub>		11 21.7 252°65'	0°7'/21.9	18	
10 18	4 14.63	+25 26.4	2.567	3.377	11.3	21.9	10 18	4 20.46	+21 33.0	1.575	2.408	16.1	20.5
10 28	4 9.20	+25 28.0	2.483	3.376	8.6	21.7	10 28	4 14.71	+21 47.1	1.492	2.399	12.3	20.2
11 7	4 1.99	+25 22.1	2.424	3.375	5.6	21.5	11 7	4 5.96	+21 54.8	1.431	2.390	7.8	19.9
11 17	3 53.59	+25 8.6	2.393	3.374	2.4	21.3	11 17	3 55.03	+21 55.3	1.395	2.380	2.7	19.6
11 27	3 44.81	+24 48.5	2.392	3.373	2.1	21.3	11 27	3 43.24	+21 49.5	1.387	2.370	2.8	19.6
12 7	3 36.54	+24 24.3	2.421	3.372	5.2	21.5	12 7	3 32.16	+21 40.1	1.408	2.360	7.9	19.9
12 17	3 29.52	+23 59.2	2.479	3.370	8.3	21.7	12 17	3 23.16	+21 31.4	1.454	2.350	12.6	20.1
12 27	3 24.37	+23 36.4	2.563	3.368	11.0	21.9	12 27	3 17.20	+21 27.9	1.522	2.340	16.6	20.3
<b>511972</b>	2015 KY <sub>43</sub>		11 21.7 217°04'	0°4'/21.9	18		<b>73094</b>	2002 GN <sub>20</sub>		11 21.7 69°22'	1°2'/21.1	18	
10 18	4 19.23	+22 24.8	1.792	2.618	14.8	22.3	10 18	4 19.55	+21 6.4	1.281	2.129	18.2	18.8
10 28	4 13.35	+22 12.4	1.708	2.612	11.2	22.0	10 28	4 13.84	+20 9.3	1.232	2.148	13.6	18.6
11 7	4 4.87	+21 51.4	1.648	2.606	7.0	21.8	11 7	4 5.14	+19 1.8	1.204	2.168	8.3	18.4
11 17	3 54.59	+21 22.4	1.614	2.599	2.4	21.5	11 17	3 54.63	+17 48.2	1.201	2.187	2.7	18.1
11 27	3 43.70	+20 47.8	1.609	2.592	2.5	21.5	11 27	3 43.90	+16 35.4	1.225	2.207	3.6	18.2
12 7	3 33.52	+20 11.6	1.633	2.584	7.2	21.8	12 7	3 34.51	+15 31.2	1.276	2.226	8.8	18.6
12 17	3 25.18	+19 38.9	1.684	2.576	11.5	22.0	12 17	3 27.61	+14 41.5	1.351	2.246	13.5	18.9
12 27	3 19.51	+19 14.0	1.757	2.567	15.1	22.2	12 27	3 23.84	+14 9.8	1.447	2.265	17.3	19.2
<b>516364</b>	2017 CX <sub>30</sub>		11 21.7 45°20'	3°9'/19.8	18		<b>68569</b>	2001 YE <sub>3</sub>		11 21.7 279°45'	10°5'/27.3	18	
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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>185539</b>	2007 <i>XS</i> <sub>28</sub>		11 21.7	7°54	0°6/21.9	18	<b>511942</b>	2015 <i>HQ</i> <sub>173</sub>		11 21.7	195°42	1°8/22.5	18
10 18	4 15.44	+22 41.7	1.610	2.449	15.6	20.4	10 18	4 21.62	+24 50.4	1.821	2.638	15.0	22.2
10 28	4 10.67	+22 30.9	1.539	2.449	11.8	20.2	10 28	4 15.20	+25 4.7	1.739	2.636	11.5	22.0
11 7	4 3.27	+22 11.1	1.490	2.450	7.4	19.9	11 7	4 6.08	+25 10.0	1.681	2.634	7.4	21.8
11 17	3 54.10	+21 43.0	1.466	2.451	2.5	19.7	11 17	3 55.06	+25 5.1	1.649	2.631	3.2	21.5
11 27	3 44.40	+21 9.6	1.470	2.453	2.6	19.7	11 27	3 43.39	+24 50.6	1.646	2.627	2.8	21.5
12 7	3 35.52	+20 35.1	1.501	2.455	7.4	20.0	12 7	3 32.44	+24 29.6	1.672	2.623	7.0	21.7
12 17	3 28.59	+20 4.7	1.557	2.457	11.7	20.2	12 17	3 23.42	+24 6.5	1.725	2.618	11.2	22.0
12 27	3 24.39	+19 42.6	1.637	2.460	15.4	20.5	12 27	3 17.16	+23 46.6	1.802	2.613	14.7	22.2
<b>487372</b>	2014 <i>QP</i> <sub>256</sub>		11 21.7	210°83	1°9/20.9	18	<b>167268</b>	2003 <i>UN</i> <sub>137</sub>		11 21.7	96°23	0°6/22.0	18
10 18	4 15.32	+14 4.7	2.288	3.116	11.9	21.4	10 18	4 20.88	+22 47.8	1.988	2.805	13.9	21.2
10 28	4 9.81	+14 2.6	2.209	3.115	8.9	21.2	10 28	4 13.96	+22 39.1	1.935	2.833	10.4	21.1
11 7	4 2.43	+14 0.3	2.155	3.113	5.6	21.0	11 7	4 4.90	+22 22.7	1.905	2.861	6.4	20.9
11 17	3 53.79	+13 59.4	2.129	3.112	2.4	20.8	11 17	3 54.57	+21 59.4	1.904	2.888	2.2	20.7
11 27	3 44.74	+14 1.4	2.133	3.110	3.0	20.8	11 27	3 44.06	+21 31.3	1.932	2.915	2.2	20.7
12 7	3 36.21	+14 8.1	2.167	3.108	6.4	21.0	12 7	3 34.50	+21 2.1	1.991	2.941	6.2	21.0
12 17	3 28.99	+14 20.7	2.228	3.107	9.7	21.2	12 17	3 26.74	+20 35.6	2.077	2.966	9.8	21.3
12 27	3 23.72	+14 40.4	2.314	3.105	12.5	21.4	12 27	3 21.38	+20 15.2	2.188	2.991	12.8	21.5
<b>176305</b>	2001 <i>SV</i> <sub>152</sub>		11 21.7	347°07	2°7/22.9	18	<b>305647</b>	2009 <i>BG</i> <sub>51</sub>		11 21.7	127°04	2°0/22.7	18
10 18	4 16.55	+27 37.1	1.844	2.663	14.7	19.7	10 18	4 17.94	+26 23.8	1.921	2.738	14.3	21.2
10 28	4 11.37	+27 47.9	1.766	2.661	11.4	19.5	10 28	4 12.21	+26 26.3	1.847	2.743	10.9	21.0
11 7	4 3.67	+27 47.5	1.710	2.660	7.6	19.2	11 7	4 4.09	+26 18.3	1.796	2.748	7.1	20.8
11 17	3 54.24	+27 34.7	1.680	2.659	3.8	19.0	11 17	3 54.38	+25 59.4	1.771	2.752	3.2	20.6
11 27	3 44.25	+27 10.4	1.678	2.658	3.2	19.0	11 27	3 44.20	+25 31.1	1.776	2.757	2.8	20.5
12 7	3 34.97	+26 38.2	1.704	2.657	6.8	19.2	12 7	3 34.79	+24 56.9	1.809	2.761	6.5	20.8
12 17	3 27.51	+26 3.0	1.757	2.656	10.7	19.4	12 17	3 27.16	+24 21.6	1.869	2.765	10.3	21.0
12 27	3 22.66	+25 30.3	1.834	2.655	14.1	19.6	12 27	3 22.03	+23 50.3	1.954	2.769	13.6	21.2
<b>208085</b>	1999 <i>XL</i> <sub>51</sub>		11 21.7	27°70	1°0/21.4	18	<b>296298</b>	2009 <i>DQ</i> <sub>107</sub>		11 21.7	85°43	6°8/18.9	18
10 18	4 17.10	+17 28.9	1.354	2.206	17.2	19.6	10 18	4 16.06	+ 2 58.2	1.800	2.632	14.5	20.3
10 28	4 12.13	+17 37.9	1.297	2.215	12.9	19.3	10 28	4 10.64	+ 2 16.6	1.738	2.636	11.4	20.1
11 7	4 4.25	+17 44.1	1.262	2.225	7.9	19.1	11 7	4 3.04	+ 1 43.4	1.699	2.639	8.5	19.9
11 17	3 54.43	+17 48.1	1.251	2.236	2.6	18.8	11 17	3 54.02	+ 1 23.7	1.686	2.642	6.8	19.9
11 27	3 44.10	+17 51.9	1.266	2.248	3.2	18.9	11 27	3 44.62	+ 1 21.3	1.700	2.645	7.6	19.9
12 7	3 34.80	+17 58.0	1.307	2.261	8.3	19.2	12 7	3 35.94	+ 1 38.1	1.741	2.649	10.2	20.1
12 17	3 27.75	+18 9.1	1.374	2.274	12.9	19.5	12 17	3 28.90	+ 2 13.5	1.806	2.652	13.2	20.3
12 27	3 23.75	+18 27.6	1.461	2.288	16.8	19.8	12 27	3 24.17	+ 3 5.2	1.893	2.655	15.9	20.5
<b>343720</b>	2011 <i>EM</i> <sub>68</sub>		11 21.7	119°13	4°8/19.4	18	<b>103577</b>	2000 <i>CL</i> <sub>1</sub>		11 21.7	242°38	7°8/17.4	18
10 18	4 17.94	+ 9 48.4	1.813	2.648	14.3	21.4	10 18	4 14.50	- 0 32.7	2.073	2.894	13.2	20.0
10 28	4 11.89	+ 8 48.3	1.757	2.663	10.8	21.2	10 28	4 9.32	- 1 39.0	2.001	2.884	10.8	19.8
11 7	4 3.69	+ 7 50.0	1.726	2.678	7.3	21.1	11 7	4 2.20	- 2 36.7	1.951	2.875	8.7	19.6
11 17	3 54.18	+ 6 58.5	1.721	2.693	4.9	20.9	11 17	3 53.75	- 3 19.8	1.928	2.864	7.8	19.6
11 27	3 44.42	+ 6 18.6	1.745	2.707	5.8	21.0	11 27	3 44.88	- 3 43.6	1.933	2.854	8.6	19.6
12 7	3 35.52	+ 5 54.0	1.798	2.720	8.9	21.3	12 7	3 36.54	- 3 45.2	1.963	2.843	10.8	19.7
12 17	3 28.35	+ 5 46.2	1.876	2.733	12.2	21.5	12 17	3 29.58	- 3 24.7	2.018	2.832	13.3	19.9
12 27	3 23.52	+ 5 54.9	1.976	2.746	15.1	21.7	12 27	3 24.64	- 2 44.1	2.094	2.821	15.7	20.0
<b>139629</b>	2001 <i>QO</i> <sub>152</sub>		11 21.7	51°23	2°0/20.7	18	<b>371305</b>	2006 <i>FN</i> <sub>17</sub>		11 21.7	122°91	1°0/22.1	15
10 18	4 15.31	+17 4.2	1.647	2.491	15.0	19.8	10 18	4 23.96	+22 50.5	1.588	2.413	16.4	22.1
10 28	4 10.19	+16 25.2	1.593	2.507	11.2	19.6	10 28	4 16.94	+22 56.3	1.526	2.429	12.4	21.9
11 7	4 2.75	+15 42.1	1.562	2.524	6.9	19.4	11 7	4 7.07	+22 53.5	1.487	2.444	7.8	21.7
11 17	3 53.88	+14 58.3	1.557	2.541	2.7	19.2	11 17	3 55.34	+22 41.7	1.474	2.459	2.8	21.4
11 27	3 44.76	+14 18.0	1.580	2.558	3.6	19.3	11 27	3 43.19	+22 22.4	1.490	2.473	2.7	21.4
12 7	3 36.55	+13 45.7	1.630	2.576	7.7	19.6	12 7	3 32.12	+21 59.7	1.534	2.486	7.5	21.7
12 17	3 30.21	+13 24.6	1.707	2.594	11.6	19.8	12 17	3 23.31	+21 38.4	1.605	2.499	11.8	22.0
12 27	3 26.34	+13 16.5	1.806	2.612	14.9	20.1	12 27	3 17.53	+21 23.1	1.699	2.511	15.5	22.3
<b>406789</b>	2008 <i>SF</i> <sub>14</sub>		11 21.7	133°33	8°6/15.2	18	<b>254446</b>	2005 <i>BO</i> <sub>4</sub>		11 21.7	353°73	0°9/21.5	18
10 18	4 12.48	-11 17.9	2.861	3.634	11.2	22.1	10 18	4 18.64	+18 36.5	1.211	2.066	18.6	20.1
10 28	4 7.19	-12 31.6	2.819	3.648	9.8	22.0	10 28	4 13.82	+18 34.6	1.145	2.064	14.0	19.9
11 7	4 0.57	-13 31.8	2.801	3.660	8.8	22.0	11 7	4 5.60	+18 27.4	1.099	2.063	8.7	19.6
11 17	3 53.14	-14 14.0	2.809	3.673	8.6	22.0	11 17	3 54.97	+18 16.0	1.076	2.062	2.9	19.2
11 27	3 45.55	-14 35.1	2.843	3.685	9.1	22.0	11 27	3 43.55	+18 3.2	1.079	2.061	3.5	19.3
12 7	3 38.46	-14 34.2	2.901	3.696	10.2	22.1	12 7	3 33.16	+17 53.3	1.107	2.061	9.3	19.6
12 17	3 32.42	-14 12.3	2.983	3.707	11.5	22.2	12 17	3 25.30	+17 50.4	1.158	2.061	14.5	19.9
12 27	3 27.87	-13 32.1	3.085	3.718	12.8	22.4	12 27	3 20.93	+17 58.0	1.229	2.062	18.9	20.2
<b>324789</b>	2007 <i>GA</i> <sub>76</sub>		11 21.7	170°44	1°7/22.5	17	<b>405227</b>	2003 <i>SA</i> <sub>43</sub>		11 21.7	23°64	4°8/24.3	18
10 18	4 17.12	+24 37.0	2.335	3.147	12.2	21.5	10 18	4 15.28	+33 32.5	1.721	2.531	16.0	20.0
10 28	4 11.28	+25 0.8	2.254	3.148	9.3	21.3	10 28	4 10.57	+33 45.7	1.657	2.540	12.7	19.8
11 7	4 3.41	+25 18.1	2.197	3.148	6.0	21.1	11 7	4 3.21	+33 42.1	1.614	2.551	9.1	19.6
11 17	3 54.14	+25 27.9	2.168	3.149	2.7	20.9	11 17	3 54.11	+33 19.5	1.595	2.562	5.9	19.4
11 27	3 44.40	+25 30.4	2.169	3.149	2.4	20.8	11 27	3 44.57	+32 39.2	1.603	2.574	5.0	19.4
12 7	3 35.18	+25 27.2	2.200	3.150	5.7	21.1	12 7	3 35.97	+31 45.8	1.638	2.587	7.4	19.6
12 17	3 27.38	+25 21.1	2.259	3.150	9.0	21.3	12 17	3 29.42	+30 46.2	1.699	2.600	10.8	19.8
12 27	3 21.67	+25 15.5	2.344	3.150	11.9	21.5	12 27	3 25.64	+29 47.5	1.784	2.614	14.0	20.0
<b>119221</b>	2001 <i>QS</i> <sub>214</sub>		11 21.7	14°27	0°1/21.7	18	<b>4031</b>						

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>412255</b>	2013 <i>HZ</i> <sub>58</sub>		11 21.7 108°15	3°9/23.8	18		<b>46594</b>	1992 <i>YP</i> <sub>3</sub>		11 21.8 12°11	1°6/20.9	18	
10 18	4 18.46	+31 50.3	2.195	2.989	13.5	21.1	10 18	4 12.56	+16 57.4	1.850	2.692	13.7	18.4
10 28	4 12.44	+32 13.0	2.122	2.998	10.7	20.9	10 28	4 8.14	+16 36.2	1.782	2.695	10.2	18.2
11 7	4 4.18	+32 23.3	2.072	3.008	7.5	20.7	11 7	4 1.58	+16 11.7	1.737	2.699	6.3	17.9
11 17	3 54.41	+32 19.3	2.049	3.017	4.7	20.6	11 17	3 53.62	+15 46.1	1.718	2.703	2.4	17.7
11 27	3 44.22	+32 1.3	2.055	3.026	4.1	20.5	11 27	3 45.27	+15 22.5	1.728	2.708	3.1	17.8
12 7	3 34.74	+31 31.8	2.090	3.034	6.4	20.7	12 7	3 37.59	+15 4.3	1.766	2.713	7.1	18.0
12 17	3 26.94	+30 55.6	2.152	3.043	9.4	20.9	12 17	3 31.50	+14 54.1	1.829	2.719	10.8	18.3
12 27	3 21.51	+30 18.1	2.240	3.052	12.2	21.1	12 27	3 27.64	+14 53.8	1.916	2.726	14.0	18.5
<b>385994</b>	2007 <i>CQ</i> <sub>9</sub>		11 21.7 305°42	2°1/22.7	18		<b>182567</b>	2001 <i>TQ</i> <sub>146</sub>		11 21.8 13°62	1°9/21.0	18	
10 18	4 17.48	+27 13.0	1.462	2.295	17.1	20.6	10 18	4 15.29	+15 48.7	1.662	2.507	14.9	20.3
10 28	4 12.64	+26 54.0	1.384	2.289	13.2	20.4	10 28	4 10.41	+15 39.0	1.595	2.509	11.2	20.1
11 7	4 4.73	+26 19.4	1.327	2.283	8.6	20.1	11 7	4 3.10	+15 27.3	1.549	2.511	6.9	19.9
11 17	3 54.68	+25 29.1	1.295	2.277	3.8	19.8	11 17	3 54.14	+15 15.7	1.530	2.514	2.7	19.6
11 27	3 43.94	+24 26.3	1.289	2.271	3.1	19.7	11 27	3 44.69	+15 6.8	1.538	2.517	3.4	19.7
12 7	3 34.13	+23 17.7	1.310	2.265	8.0	20.0	12 7	3 36.00	+15 3.5	1.573	2.521	7.7	19.9
12 17	3 26.56	+22 11.4	1.356	2.260	12.8	20.3	12 17	3 29.11	+15 8.0	1.635	2.526	11.8	20.2
12 27	3 22.15	+21 14.8	1.425	2.255	16.9	20.5	12 27	3 24.76	+15 22.1	1.719	2.530	15.3	20.4
<b>293856</b>	2007 <i>RY</i> <sub>241</sub>		11 21.7 71°92	4°5/19.7	18		<b>100219</b>	1994 <i>PG</i> <sub>8</sub>		11 21.8 23°48	3°3/20.7	18	
10 18	4 16.50	+11 2.8	1.639	2.483	15.1	20.8	10 18	4 14.16	+15 12.9	0.959	1.837	20.4	19.4
10 28	4 11.01	+10 8.7	1.589	2.500	11.4	20.6	10 28	4 10.58	+14 44.3	0.919	1.851	15.2	19.2
11 7	4 3.25	+9 16.1	1.561	2.517	7.5	20.4	11 7	4 3.54	+14 13.7	0.898	1.865	9.5	18.9
11 17	3 54.08	+8 29.8	1.559	2.535	4.7	20.3	11 17	3 54.29	+13 46.0	0.898	1.882	4.1	18.7
11 27	3 44.69	+7 54.6	1.586	2.552	5.6	20.4	11 27	3 44.65	+13 26.5	0.921	1.900	5.2	18.8
12 7	3 36.22	+7 34.2	1.639	2.570	9.0	20.6	12 7	3 36.43	+13 19.8	0.967	1.920	10.5	19.2
12 17	3 29.60	+7 30.2	1.718	2.587	12.6	20.9	12 17	3 30.95	+13 28.3	1.035	1.941	15.5	19.6
12 27	3 25.44	+7 42.2	1.818	2.604	15.6	21.1	12 27	3 28.95	+13 52.1	1.121	1.963	19.7	19.9
<b>402235</b>	2005 <i>GE</i> <sub>87</sub>		11 21.7 148°43	3°1/19.8	18		<b>212182</b>	2005 <i>GV</i> <sub>79</sub>		11 21.8 319°02	8°8/17.9	18	
10 18	4 15.29	+13 12.9	2.256	3.085	12.0	22.2	10 18	4 14.89	- 1 3.3	1.708	2.538	15.2	19.8
10 28	4 9.67	+12 17.2	2.188	3.093	9.0	22.1	10 28	4 9.98	- 2 1.4	1.643	2.532	12.5	19.6
11 7	4 2.28	+11 19.9	2.145	3.101	5.8	21.9	11 7	4 2.78	- 2 47.7	1.600	2.526	10.0	19.5
11 17	3 53.77	+10 24.8	2.130	3.108	3.3	21.7	11 17	3 54.04	- 3 15.9	1.581	2.521	8.8	19.4
11 27	3 45.00	+9 35.8	2.146	3.115	4.1	21.8	11 27	3 44.82	- 3 20.6	1.588	2.516	9.7	19.4
12 7	3 36.86	+8 56.8	2.192	3.121	7.1	22.0	12 7	3 36.28	- 3 0.0	1.621	2.511	12.0	19.6
12 17	3 30.09	+8 30.1	2.264	3.127	10.2	22.2	12 17	3 29.40	- 2 15.2	1.676	2.506	14.8	19.7
12 27	3 25.25	+8 16.9	2.361	3.133	12.9	22.4	12 27	3 24.90	- 1 9.6	1.752	2.502	17.5	19.9
<b>396903</b>	2004 <i>YD</i> <sub>21</sub>		11 21.7 339°91	2°1/20.9	18		<b>5334</b>	Mishima		11 21.8 194°78	4°3/19.7	18	
10 18	4 14.16	+16 35.6	1.374	2.231	16.7	20.6	10 18	4 18.54	+11 40.5	1.712	2.549	14.9	17.1
10 28	4 10.14	+16 15.9	1.301	2.221	12.6	20.4	10 28	4 12.73	+10 45.6	1.639	2.548	11.3	16.9
11 7	4 3.21	+15 52.2	1.248	2.213	7.9	20.1	11 7	4 4.49	+9 50.1	1.589	2.545	7.4	16.7
11 17	3 54.22	+15 27.4	1.220	2.205	3.0	19.8	11 17	3 54.60	+8 58.4	1.567	2.543	4.5	16.5
11 27	3 44.49	+15 5.3	1.217	2.198	4.0	19.8	11 27	3 44.23	+8 16.0	1.572	2.540	5.6	16.6
12 7	3 35.56	+14 50.4	1.241	2.191	9.0	20.1	12 7	3 34.61	+7 47.4	1.606	2.536	9.2	16.8
12 17	3 28.71	+14 46.2	1.288	2.186	13.8	20.3	12 17	3 26.79	+7 35.2	1.665	2.532	13.0	17.0
12 27	3 24.85	+14 55.0	1.356	2.181	17.9	20.6	12 27	3 21.51	+7 40.2	1.745	2.527	16.3	17.2
<b>459973</b>	2014 <i>ON</i> <sub>12</sub>		11 21.7 19°51	3°7/20.4	16		<b>390273</b>	2012 <i>XX</i> <sub>148</sub>		11 21.8 237°91	4°3/19.9	18	
10 18	4 13.76	+11 29.6	1.499	2.353	15.7	20.6	10 18	4 16.51	+10 1.2	1.786	2.625	14.3	20.8
10 28	4 9.31	+11 13.1	1.445	2.362	11.9	20.4	10 28	4 11.16	+9 28.0	1.713	2.621	10.9	20.5
11 7	4 2.39	+10 59.2	1.412	2.372	7.6	20.2	11 7	4 3.51	+8 57.0	1.663	2.618	7.3	20.3
11 17	3 53.87	+10 50.8	1.404	2.384	4.1	20.0	11 17	3 54.29	+8 31.8	1.639	2.614	4.5	20.2
11 27	3 44.96	+10 51.4	1.422	2.396	5.0	20.1	11 27	3 44.58	+8 16.4	1.643	2.611	5.4	20.2
12 7	3 36.93	+11 2.9	1.467	2.409	8.8	20.3	12 7	3 35.54	+8 13.6	1.675	2.607	8.8	20.4
12 17	3 30.80	+11 26.2	1.536	2.423	12.7	20.6	12 17	3 28.15	+8 24.9	1.733	2.603	12.4	20.6
12 27	3 27.26	+12 1.0	1.627	2.438	16.1	20.9	12 27	3 23.16	+8 50.3	1.813	2.599	15.6	20.8
<b>272006</b>	2005 <i>CK</i> <sub>63</sub>		11 21.7 259°10	1°6/20.7	18		<b>22358</b>	1993 <i>FK</i> <sub>11</sub>		11 21.8 134°95	2°1/20.8	18	
10 18	4 12.47	+16 21.3	2.505	3.333	11.0	21.1	10 18	4 16.83	+15 53.7	1.855	2.690	14.0	19.5
10 28	4 7.62	+15 50.8	2.416	3.323	8.2	20.9	10 28	4 11.30	+15 27.9	1.785	2.694	10.5	19.3
11 7	4 1.10	+15 17.2	2.353	3.312	5.1	20.7	11 7	4 3.53	+14 59.4	1.739	2.699	6.5	19.1
11 17	3 53.44	+14 42.6	2.318	3.301	2.1	20.5	11 17	3 54.28	+14 30.5	1.719	2.703	2.7	18.8
11 27	3 45.40	+14 9.7	2.313	3.290	2.8	20.5	11 27	3 44.62	+14 4.5	1.729	2.707	3.5	18.9
12 7	3 37.78	+13 41.4	2.338	3.279	6.0	20.7	12 7	3 35.69	+13 45.0	1.767	2.710	7.4	19.1
12 17	3 31.33	+13 20.4	2.391	3.268	9.1	20.9	12 17	3 28.44	+13 34.5	1.831	2.714	11.2	19.4
12 27	3 26.61	+13 8.7	2.468	3.257	11.9	21.0	12 27	3 23.54	+13 35.1	1.919	2.717	14.5	19.6
<b>242277</b>	2003 <i>UZ</i> <sub>67</sub>		11 21.7 84°32	5°1/18.6	18		<b>2476</b>	Andersen		11 21.8 57°43	2°3/20.8	18	
10 18	4 12.29	+ 5 52.1	2.276	3.107	11.9	20.7	10 18	4 16.04	+13 14.2	2.006	2.839	13.1	15.7
10 28	4 7.43	+ 4 57.3	2.214	3.114	9.2	20.5	10 28	4 10.51	+13 12.4	1.942	2.850	9.8	15.6
11 7	4 0.91	+ 4 6.9	2.177	3.121	6.7	20.4	11 7	4 2.95	+13 11.3	1.901	2.860	6.2	15.4
11 17	3 53.35	+ 3 24.9	2.167	3.128	5.2	20.3	11 17	3 54.07	+13 12.5	1.888	2.870	2.8	15.2
11 27	3 45.54	+ 2 55.3	2.187	3.135	6.0	20.3	11 27	3 44.85	+13 17.9	1.904	2.881	3.5	15.2
12 7	3 38.29	+ 2 40.4	2.234	3.142	8.3	20.5	12 7	3 36.31	+13 29.1	1.949	2.892	6.9	15.5
12 17	3 32.30	+ 2 41.3	2.307	3.149	10.8	20.7	12 17	3 29.29	+13 47.2	2.022	2.902	10.4	15.7
12 27	3 28.10	+ 2 57.2	2.402	3.156	13.2	20.9	12 27	3 24.43	+14 12.9	2.118	2.913	13.4	15.9
<b>119258</b>	2001 <i>RK</i> <sub>39</sub>		11 21.8 190°29	2°5/22.9	18		<b>52180</b>	2273 <i>T</i> <sub>-2</sub>		11 21.8 333°57	1°9/22.7		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>447646</b>	2006 <i>VN</i> <sub>63</sub>		11 21.8 110°68	0°7/21.5	18		<b>23154</b>	2000 <i>CL</i> <sub>58</sub>		11 21.8 284°93	7°9/17.9	18	
10 18	4 18.28	+17 30.4	2.041	2.868	13.2	20.8	10 18	4 14.81	+0 29.9	1.852	2.681	14.3	18.4
10 28	4 12.26	+17 43.2	1.969	2.874	9.9	20.6	10 28	4 9.87	-0 27.0	1.777	2.668	11.6	18.2
11 7	4 4.09	+17 53.8	1.922	2.881	6.1	20.4	11 7	4 2.75	-1 14.9	1.725	2.655	9.2	18.0
11 17	3 54.47	+18 2.5	1.902	2.887	2.0	20.1	11 17	3 54.11	-1 47.7	1.698	2.642	7.9	17.9
11 27	3 44.42	+18 10.3	1.912	2.894	2.4	20.2	11 27	3 44.94	-2 0.3	1.697	2.629	8.8	17.9
12 7	3 35.02	+18 18.9	1.951	2.900	6.4	20.5	12 7	3 36.33	-1 50.0	1.723	2.617	11.2	18.1
12 17	3 27.19	+18 30.2	2.019	2.906	10.1	20.7	12 17	3 29.24	-1 17.1	1.772	2.604	14.1	18.2
12 27	3 21.62	+18 46.0	2.110	2.912	13.2	20.9	12 27	3 24.38	-0 24.0	1.843	2.591	16.8	18.4
<b>236793</b>	2007 <i>PW</i> <sub>41</sub>		11 21.8 131°81	1°7/20.9	18		<b>130763</b>	2000 <i>SV</i> <sub>288</sub>		11 21.8 146°49	1°2/21.2	18	
10 18	4 18.37	+16 31.6	2.024	2.851	13.3	21.6	10 18	4 20.71	+20 18.6	1.613	2.446	15.8	20.2
10 28	4 12.20	+16 8.3	1.958	2.864	9.9	21.4	10 28	4 14.47	+19 30.1	1.546	2.454	11.9	20.0
11 7	4 3.96	+15 41.9	1.917	2.876	6.1	21.2	11 7	4 5.59	+18 32.8	1.502	2.462	7.3	19.8
11 17	3 54.40	+15 14.6	1.904	2.888	2.4	21.0	11 17	3 55.01	+17 29.5	1.485	2.470	2.5	19.5
11 27	3 44.54	+14 49.3	1.920	2.899	3.1	21.0	11 27	3 44.05	+16 25.7	1.496	2.477	3.2	19.6
12 7	3 35.43	+14 29.0	1.966	2.909	6.8	21.3	12 7	3 34.07	+15 27.4	1.536	2.483	8.0	19.9
12 17	3 27.92	+14 16.4	2.040	2.920	10.4	21.5	12 17	3 26.16	+14 40.2	1.602	2.489	12.3	20.1
12 27	3 22.65	+14 13.4	2.137	2.929	13.4	21.8	12 27	3 21.05	+14 7.6	1.691	2.494	15.9	20.4
<b>364523</b>	2007 <i>EQ</i> <sub>180</sub>		11 21.8 97°55	5°1/17.8	18	9	<b>364709</b>	2007 <i>UP</i> <sub>137</sub>		11 21.8 302°26	0°6/21.4	18	
10 18	4 13.31	+6 41.2	2.490	3.315	11.1	20.9	10 18	4 14.99	+21 59.0	1.702	2.539	14.9	20.7
10 28	4 7.95	+5 10.4	2.438	3.334	8.6	20.7	10 28	4 10.31	+21 8.7	1.620	2.530	11.3	20.5
11 7	4 1.14	+4 32.7	2.412	3.353	6.3	20.6	11 7	4 3.13	+20 7.4	1.561	2.522	7.0	20.2
11 17	3 53.45	+3 23.1	2.416	3.372	5.1	20.6	11 17	3 54.25	+18 57.7	1.528	2.513	2.3	19.9
11 27	3 45.63	+1 16.4	2.450	3.390	5.9	20.7	11 27	3 44.83	+17 44.8	1.523	2.505	2.8	19.9
12 7	3 38.41	+0 26.0	2.513	3.409	8.0	20.8	12 7	3 36.14	+16 35.1	1.547	2.497	7.6	20.2
12 17	3 32.40	-0 6.8	2.603	3.427	10.3	21.0	12 17	3 29.26	+15 34.8	1.597	2.489	11.9	20.4
12 27	3 28.05	-0 22.1	2.715	3.444	12.4	21.2	12 27	3 24.95	+14 48.7	1.669	2.482	15.6	20.6
<b>490540</b>	2009 <i>VD</i> <sub>46</sub>		11 21.8 317°98	0°5/21.4	17		<b>74224</b>	1998 <i>SX</i> <sub>1</sub>		11 21.8 55°91	4°8/23.4	18	
10 18	4 13.03	+24 9.4	1.914	2.744	13.8	20.9	10 18	4 23.07	+29 41.2	1.605	2.417	16.8	18.4
10 28	4 8.65	+22 50.9	1.816	2.724	10.4	20.6	10 28	4 16.66	+30 44.1	1.546	2.434	13.2	18.2
11 7	4 2.02	+21 17.3	1.743	2.704	6.5	20.4	11 7	4 7.18	+31 34.6	1.509	2.450	9.3	18.1
11 17	3 53.85	+19 31.8	1.698	2.684	2.1	20.0	11 17	3 55.59	+32 8.3	1.497	2.467	5.7	17.9
11 27	3 45.17	+17 40.5	1.682	2.664	2.6	20.0	11 27	3 43.40	+32 23.3	1.512	2.484	5.1	17.9
12 7	3 37.09	+15 51.4	1.696	2.645	7.2	20.3	12 7	3 32.21	+32 21.8	1.555	2.501	8.0	18.1
12 17	3 30.61	+14 12.4	1.738	2.627	11.3	20.5	12 17	3 23.37	+32 9.1	1.624	2.518	11.7	18.4
12 27	3 26.44	+12 49.5	1.804	2.609	15.0	20.7	12 27	3 17.72	+31 52.2	1.716	2.535	15.0	18.6
<b>160435</b>	2005 <i>SA</i> <sub>78</sub>		11 21.8 287°89	1°2/21.2	18		<b>169063</b>	2001 <i>FO</i> <sub>144</sub>		11 21.8 142°46	2°1/22.8	18	
10 18	4 14.73	+18 10.0	2.011	2.845	13.1	20.8	10 18	4 20.80	+26 1.7	2.305	3.107	12.7	20.9
10 28	4 9.68	+17 47.1	1.934	2.842	9.8	20.5	10 28	4 14.04	+26 24.8	2.231	3.118	9.7	20.7
11 7	4 2.54	+17 19.7	1.880	2.840	6.1	20.3	11 7	4 5.16	+26 39.9	2.181	3.129	6.4	20.6
11 17	3 54.00	+16 49.7	1.853	2.838	2.1	20.1	11 17	3 54.87	+26 45.8	2.160	3.139	3.0	20.4
11 27	3 45.02	+16 20.0	1.855	2.836	2.8	20.1	11 27	3 44.17	+26 42.6	2.169	3.149	2.6	20.4
12 7	3 36.65	+15 54.0	1.886	2.834	6.7	20.3	12 7	3 34.11	+26 32.4	2.209	3.157	5.8	20.6
12 17	3 29.79	+15 34.9	1.945	2.831	10.4	20.6	12 17	3 25.61	+26 18.5	2.277	3.166	9.0	20.8
12 27	3 25.11	+15 25.3	2.026	2.829	13.6	20.8	12 27	3 19.35	+26 4.8	2.371	3.174	11.9	21.0
<b>515932</b>	2015 <i>RG</i> <sub>1</sub>		11 21.8 102°11	1°6/22.7	18		<b>298104</b>	2002 <i>RQ</i> <sub>127</sub>		11 21.8 351°82	3°8/23.9	18	
10 18	4 16.49	+27 2.1	1.897	2.716	14.4	20.6	10 18	4 12.18	+32 47.9	1.304	2.139	18.7	19.3
10 28	4 11.17	+26 37.9	1.821	2.718	11.0	20.4	10 28	4 9.06	+32 7.5	1.229	2.131	14.8	19.0
11 7	4 3.51	+26 1.3	1.768	2.721	7.1	20.1	11 7	4 2.71	+31 1.6	1.174	2.124	10.2	18.7
11 17	3 54.31	+25 12.7	1.741	2.723	3.1	19.9	11 17	3 54.16	+29 30.3	1.141	2.118	5.5	18.5
11 27	3 44.71	+24 15.1	1.744	2.726	2.5	19.9	11 27	3 44.98	+27 38.6	1.134	2.114	4.2	18.4
12 7	3 35.88	+23 13.7	1.775	2.728	6.5	20.1	12 7	3 36.87	+25 37.1	1.152	2.111	8.3	18.6
12 17	3 28.83	+22 14.4	1.833	2.730	10.4	20.4	12 17	3 31.18	+23 38.2	1.195	2.109	13.2	18.9
12 27	3 24.24	+21 22.5	1.916	2.733	13.7	20.6	12 27	3 28.76	+21 53.0	1.260	2.109	17.5	19.1
<b>206097</b>	2002 <i>RX</i> <sub>162</sub>		11 21.8 125°81	0°4/21.9	18		<b>158581</b>	2002 <i>LK</i> <sub>3</sub>		11 21.8 135°40	6°3/18.3	18	
10 18	4 18.49	+22 12.6	2.131	2.950	13.0	21.2	10 18	4 14.72	-3 18.3	2.812	3.609	10.8	20.1
10 28	4 12.29	+22 4.7	2.064	2.963	9.8	21.0	10 28	4 8.92	-3 48.6	2.754	3.621	8.8	20.0
11 7	4 4.04	+21 50.0	2.020	2.977	6.1	20.8	11 7	4 1.74	-4 9.3	2.722	3.632	7.2	19.9
11 17	3 54.47	+21 29.2	2.005	2.989	2.1	20.5	11 17	3 53.70	-4 17.1	2.717	3.643	6.3	19.9
11 27	3 44.59	+21 4.1	2.019	3.002	2.1	20.6	11 27	3 45.48	-4 9.9	2.741	3.653	6.8	19.9
12 7	3 35.44	+20 38.0	2.063	3.013	6.0	20.8	12 7	3 37.75	-3 47.0	2.794	3.663	8.3	20.0
12 17	3 27.88	+20 14.4	2.136	3.025	9.5	21.1	12 17	3 31.11	-3 9.2	2.872	3.673	10.1	20.2
12 27	3 22.53	+19 56.4	2.233	3.036	12.5	21.3	12 27	3 26.00	-2 18.4	2.974	3.682	11.8	20.3
<b>104582</b>	2000 <i>GX</i> <sub>83</sub>		11 21.8 152°05	4°7/18.9	18		<b>145188</b>	2005 <i>JJ</i> <sub>24</sub>		11 21.8 116°49	0°6/21.5	18	
10 18	4 15.19	+6 25.0	2.411	3.234	11.6	20.4	10 18	4 17.41	+19 3.5	1.982	2.810	13.5	20.5
10 28	4 9.51	+5 35.7	2.346	3.242	8.9	20.2	10 28	4 11.66	+18 56.2	1.912	2.818	10.1	20.3
11 7	4 2.20	+4 50.2	2.307	3.250	6.3	20.1	11 7	4 3.74	+18 44.4	1.867	2.826	6.2	20.1
11 17	3 53.85	+4 12.0	2.296	3.258	4.8	20.0	11 17	3 54.41	+18 29.2	1.848	2.834	2.0	19.8
11 27	3 45.26	+3 44.9	2.314	3.265	5.5	20.0	11 27	3 44.70	+18 12.7	1.860	2.841	2.4	19.9
12 7	3 37.23	+3 31.0	2.362	3.271	7.8	20.2	12 7	3 35.69	+17 57.7	1.900	2.849	6.5	20.2
12 17	3 30.45	+3 31.3	2.436	3.277	10.4	20.4	12 17	3 28.30	+17 47.3	1.968	2.856	10.2	20.4
12 27	3 25.45	+3 45.5	2.534	3.282	12.7	20.6	12 27	3 23.20	+17 43.8	2.059	2.863	13.4	20.6
<b>376072</b>	2010 <i>TF</i> <sub>149</sub>		11 21.8 8°92	3°9/20.3	18		<b>516449</b>	2005 <i>CE</i> <sub>11</sub>		11 21.			

EPHEMERIDES

11 21.8

11 21.8

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>389611</b>	2011 <i>HT</i> <sub>30</sub>		11 21.8 86°36'	0°9/21.5	18		<b>333632</b>	2008 <i>GH</i> <sub>52</sub>		11 21.8 147°37'	1°2/21.2	18	
10 18	4 24.40	+16 52.0	1.838	2.659	14.7	21.2	10 18	4 20.27	+18 38.2	1.881	2.707	14.2	22.2
10 28	4 16.70	+17 6.7	1.791	2.692	10.9	21.0	10 28	4 13.83	+18 11.5	1.813	2.717	10.6	22.0
11 7	4 6.71	+17 19.0	1.767	2.725	6.7	20.8	11 7	4 5.09	+17 39.5	1.768	2.727	6.5	21.8
11 17	3 55.34	+17 29.2	1.772	2.757	2.2	20.6	11 17	3 54.87	+17 4.1	1.751	2.736	2.3	21.6
11 27	3 43.80	+17 38.2	1.807	2.788	2.6	20.7	11 27	3 44.29	+16 28.5	1.764	2.744	2.9	21.6
12 7	3 33.29	+17 47.8	1.872	2.818	6.8	21.0	12 7	3 34.53	+15 56.9	1.806	2.752	7.1	21.9
12 17	3 24.75	+18 0.2	1.964	2.848	10.5	21.3	12 17	3 26.55	+15 32.7	1.875	2.759	10.9	22.2
12 27	3 18.78	+18 17.1	2.081	2.877	13.6	21.6	12 27	3 21.02	+15 18.8	1.968	2.765	14.2	22.4
<b>300519</b>	2007 <i>TK</i> <sub>210</sub>		11 21.8 203°51'	2°7/20.0	18		<b>231249</b>	2005 <i>YO</i> <sub>138</sub>		11 21.8 178°82'	2°8/20.6	18	
10 18	4 15.94	+15 18.0	2.197	3.025	12.3	20.8	10 18	4 18.48	+13 21.0	1.906	2.737	13.8	21.1
10 28	4 10.38	+14 15.0	2.115	3.021	9.3	20.6	10 28	4 12.55	+13 1.3	1.832	2.738	10.4	20.9
11 7	4 2.89	+13 7.7	2.059	3.016	5.9	20.4	11 7	4 4.36	+12 41.2	1.782	2.739	6.6	20.6
11 17	3 54.14	+11 59.8	2.031	3.011	3.0	20.2	11 17	3 54.66	+12 23.3	1.759	2.740	3.2	20.4
11 27	3 45.03	+10 56.0	2.033	3.005	3.9	20.3	11 27	3 44.50	+12 10.3	1.765	2.740	4.0	20.5
12 7	3 36.49	+10 1.1	2.066	2.999	7.3	20.5	12 7	3 35.01	+12 5.0	1.800	2.739	7.7	20.7
12 17	3 29.35	+9 18.6	2.126	2.992	10.6	20.7	12 17	3 27.16	+12 9.4	1.862	2.738	11.4	20.9
12 27	3 24.23	+8 50.7	2.210	2.985	13.5	20.9	12 27	3 21.65	+12 24.4	1.947	2.737	14.6	21.2
<b>237893</b>	2002 <i>NL</i> <sub>32</sub>		11 21.8 69°13'	2°9/20.1	18		<b>342022</b>	2008 <i>RK</i> <sub>95</sub>		11 21.8 46°99'	0°7/21.5	18	
10 18	4 17.05	+16 43.7	1.677	2.517	15.0	19.9	10 18	4 17.01	+21 10.4	1.396	2.243	17.1	20.3
10 28	4 11.36	+15 25.3	1.629	2.541	11.1	19.7	10 28	4 12.04	+20 34.3	1.338	2.253	12.8	20.1
11 7	4 3.46	+14 2.3	1.604	2.565	6.9	19.5	11 7	4 4.25	+19 48.7	1.301	2.264	7.9	19.8
11 17	3 54.28	+12 40.1	1.607	2.589	3.3	19.3	11 17	3 54.63	+18 56.5	1.289	2.275	2.5	19.5
11 27	3 44.97	+11 25.2	1.639	2.613	4.4	19.4	11 27	3 44.61	+18 2.6	1.304	2.287	3.1	19.6
12 7	3 36.68	+10 23.2	1.699	2.637	8.2	19.7	12 7	3 35.66	+17 13.3	1.346	2.298	8.2	19.9
12 17	3 30.27	+9 37.8	1.785	2.660	11.8	20.0	12 17	3 28.94	+16 34.1	1.412	2.311	12.8	20.2
12 27	3 26.28	+9 10.7	1.894	2.684	14.9	20.3	12 27	3 25.17	+16 8.7	1.500	2.323	16.6	20.5
<b>228214</b>	1996 <i>AO</i> <sub>14</sub>		11 21.8 273°97'	1°4/22.3	18		<b>321275</b>	2009 <i>EX</i> <sub>1</sub>		11 21.8 78°70'	3°9/20.5	17	
10 18	4 19.00	+24 4.7	1.580	2.412	16.2	21.3	10 18	4 22.35	+12 46.3	1.280	2.128	18.2	20.5
10 28	4 13.76	+24 8.6	1.494	2.399	12.4	21.0	10 28	4 15.91	+12 13.6	1.236	2.151	13.7	20.3
11 7	4 5.54	+24 2.8	1.429	2.386	8.0	20.7	11 7	4 6.52	+11 41.7	1.213	2.173	8.7	20.1
11 17	3 55.14	+23 46.5	1.390	2.373	3.2	20.4	11 17	3 55.33	+11 14.8	1.215	2.196	4.4	19.9
11 27	3 43.88	+23 21.0	1.378	2.360	2.9	20.4	11 27	3 43.91	+10 57.2	1.244	2.218	5.4	20.0
12 7	3 33.31	+22 50.3	1.393	2.347	7.8	20.6	12 7	3 33.80	+10 52.5	1.299	2.240	9.8	20.4
12 17	3 24.79	+22 19.8	1.434	2.334	12.5	20.9	12 17	3 26.18	+11 2.1	1.378	2.262	14.1	20.7
12 27	3 19.28	+21 55.3	1.498	2.321	16.6	21.1	12 27	3 21.70	+11 25.9	1.477	2.283	17.7	21.0
<b>114791</b>	2003 <i>ML</i> <sub>12</sub>		11 21.8 49°36'	8°6/17.2	18		<b>7030</b>	Colombini		11 21.8 101°05'	0°8/22.2	18	R
10 18	4 12.81	- 2 35.3	1.961	2.783	13.8	19.1	10 18	4 21.04	+25 17.4	1.785	2.603	15.1	18.0
10 28	4 8.03	- 3 48.6	1.914	2.795	11.4	18.9	10 28	4 14.38	+24 39.4	1.728	2.627	11.4	17.8
11 7	4 1.40	- 4 49.9	1.891	2.807	9.4	18.8	11 7	4 5.37	+23 49.8	1.694	2.649	7.1	17.6
11 17	3 53.63	- 5 33.0	1.893	2.819	8.6	18.8	11 17	3 54.93	+22 50.2	1.688	2.672	2.6	17.3
11 27	3 45.63	- 5 53.6	1.921	2.831	9.3	18.9	11 27	3 44.33	+21 44.8	1.710	2.693	2.4	17.4
12 7	3 38.32	- 5 50.0	1.974	2.844	11.2	19.0	12 7	3 34.79	+20 39.6	1.763	2.714	6.7	17.7
12 17	3 32.46	- 5 23.4	2.050	2.857	13.4	19.2	12 17	3 27.26	+19 40.3	1.843	2.735	10.6	18.0
12 27	3 28.61	- 4 36.9	2.147	2.870	15.4	19.4	12 27	3 22.33	+18 51.8	1.947	2.754	13.9	18.2
<b>264786</b>	2002 <i>LZ</i> <sub>58</sub>		11 21.8 99°66'	2°9/20.6	18		<b>381038</b>	2006 <i>VT</i> <sub>94</sub>		11 21.8 329°73'	1°3/21.4	18	
10 18	4 16.74	+10 20.3	2.290	3.115	12.0	20.3	10 18	4 16.93	+17 54.9	1.262	2.118	17.9	20.9
10 28	4 10.83	+10 22.2	2.222	3.124	9.1	20.1	10 28	4 12.60	+17 49.6	1.189	2.109	13.6	20.6
11 7	4 3.11	+10 27.0	2.178	3.132	5.9	19.9	11 7	4 4.99	+17 39.7	1.136	2.100	8.5	20.3
11 17	3 54.21	+10 36.1	2.162	3.140	3.2	19.8	11 17	3 55.00	+17 26.8	1.106	2.092	2.9	19.9
11 27	3 44.98	+10 51.1	2.177	3.149	3.8	19.8	11 27	3 44.12	+17 13.8	1.102	2.085	3.6	19.9
12 7	3 36.32	+11 12.9	2.221	3.157	6.7	20.0	12 7	3 34.10	+17 4.9	1.124	2.078	9.2	20.3
12 17	3 29.00	+11 41.9	2.294	3.165	9.8	20.2	12 17	3 26.41	+17 3.9	1.169	2.071	14.5	20.5
12 27	3 23.62	+12 18.2	2.391	3.173	12.4	20.4	12 27	3 22.08	+17 14.1	1.233	2.066	18.9	20.8
<b>281106</b>	2006 <i>XE</i> <sub>56</sub>		11 21.8 262°68'	2°7/20.6	18		<b>443223</b>	2014 <i>DX</i> <sub>103</sub>		11 21.8 114°59'	4°2/23.9	18	
10 18	4 18.47	+14 42.2	1.755	2.591	14.6	21.6	10 18	4 21.82	+32 3.3	1.956	2.750	14.9	21.7
10 28	4 13.00	+14 13.8	1.662	2.571	11.1	21.3	10 28	4 15.24	+32 27.8	1.888	2.764	11.8	21.5
11 7	4 4.91	+13 42.7	1.591	2.551	7.1	21.1	11 7	4 6.08	+32 38.4	1.843	2.778	8.3	21.3
11 17	3 54.92	+13 11.4	1.547	2.530	3.3	20.8	11 17	3 55.24	+32 32.6	1.824	2.791	5.2	21.2
11 27	3 44.13	+12 43.9	1.532	2.508	4.2	20.8	11 27	3 43.95	+32 10.6	1.833	2.804	4.4	21.1
12 7	3 33.85	+12 24.1	1.544	2.486	8.5	21.0	12 7	3 33.54	+31 35.7	1.872	2.817	6.9	21.3
12 17	3 25.26	+12 15.4	1.583	2.463	12.8	21.2	12 17	3 25.11	+30 53.6	1.938	2.829	10.2	21.6
12 27	3 19.27	+12 20.0	1.644	2.440	16.6	21.4	12 27	3 19.39	+30 10.8	2.028	2.841	13.2	21.8
<b>290553</b>	2005 <i>UK</i> <sub>97</sub>		11 21.8 357°30'	2°6/20.4	18		<b>452091</b>	2014 <i>QV</i> <sub>31</sub>		11 21.8 22°16'	6°3/19.5	18	
10 18	4 13.66	+15 0.0	1.973	2.811	13.1	20.8	10 18	4 14.85	+ 2 7.9	1.957	2.785	13.6	20.1
10 28	4 8.87	+14 18.2	1.899	2.811	9.8	20.6	10 28	4 9.66	+ 1 47.9	1.896	2.790	10.8	19.9
11 7	4 2.05	+13 33.8	1.850	2.810	6.2	20.4	11 7	4 2.49	+ 1 37.3	1.857	2.795	8.0	19.7
11 17	3 53.88	+12 49.8	1.828	2.810	3.0	20.2	11 17	3 54.04	+ 1 39.9	1.845	2.801	6.4	19.7
11 27	3 45.34	+12 10.4	1.835	2.810	3.8	20.2	11 27	3 45.25	+ 1 58.2	1.860	2.807	7.0	19.7
12 7	3 37.41	+11 39.3	1.870	2.810	7.4	20.4	12 7	3 37.11	+ 2 33.0	1.903	2.814	9.3	19.9
12 17	3 30.98	+11 19.4	1.932	2.810	10.9	20.7	12 17	3 30.45	+ 3 23.2	1.971	2.821	12.1	20.1
12 27	3 26.68	+11 12.4	2.016	2.810	14.0	20.9	12 27	3 25.89	+ 4 26.4	2.062	2.828	14.7	20.3
<b>30799</b>	1989 <i>LH</i>		11 21.8 180°07'	1°2/21.1	18		<b>192092</b>	2006 <i>BD</i> <sub>200</sub>					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>449001</b>	2012 <i>BO</i> <sub>54</sub>		11 21.8 307°19	2°4/22.9	17		<b>158801</b>	2003 <i>SP</i> <sub>199</sub>		11 21.8 113°93	1°8/20.5	18	
10 18	4 16.29	+27 7.0	1.978	2.795	13.9	21.3	10 18	4 13.18	+16 42.9	2.435	3.263	11.3	20.0
10 28	4 11.18	+27 18.9	1.893	2.788	10.8	21.1	10 28	4 8.10	+15 54.6	2.365	3.272	8.4	19.8
11 7	4 3.67	+27 20.7	1.831	2.781	7.2	20.9	11 7	4 1.40	+15 2.7	2.321	3.280	5.2	19.6
11 17	3 54.50	+27 11.4	1.796	2.775	3.5	20.6	11 17	3 53.68	+14 10.1	2.306	3.289	2.2	19.5
11 27	3 44.72	+26 51.6	1.788	2.768	3.0	20.6	11 27	3 45.73	+13 20.2	2.321	3.297	3.0	19.5
12 7	3 35.55	+26 24.4	1.810	2.762	6.5	20.8	12 7	3 38.35	+12 36.5	2.365	3.305	6.1	19.7
12 17	3 28.04	+25 54.1	1.858	2.756	10.2	21.0	12 17	3 32.21	+12 2.0	2.438	3.313	9.1	19.9
12 27	3 22.96	+25 25.7	1.931	2.750	13.6	21.2	12 27	3 27.83	+11 38.6	2.536	3.320	11.7	20.1
<b>414328</b>	2008 <i>SH</i> <sub>77</sub>		11 21.8 326°05	9°5/25.6	16		<b>454680</b>	2014 <i>QG</i> <sub>418</sub>		11 21.8 108°77	3°6/19.4	18	
10 18	4 21.29	+43 56.2	2.025	2.771	16.0	20.6	10 18	4 12.96	+11 15.1	2.333	3.165	11.6	21.3
10 28	4 15.87	+45 22.3	1.935	2.756	13.9	20.4	10 28	4 7.96	+10 15.6	2.268	3.173	8.7	21.2
11 7	4 7.13	+46 31.4	1.865	2.741	11.8	20.3	11 7	4 1.33	+9 16.0	2.228	3.182	5.8	21.0
11 17	3 55.78	+47 16.3	1.819	2.727	10.1	20.1	11 17	3 53.66	+8 20.4	2.216	3.190	3.7	20.9
11 27	3 43.21	+47 32.2	1.798	2.714	9.5	20.1	11 27	3 45.76	+7 32.8	2.235	3.198	4.6	21.0
12 7	3 31.15	+47 19.2	1.802	2.701	10.5	20.1	12 7	3 38.43	+6 56.5	2.282	3.206	7.2	21.2
12 17	3 21.21	+46 42.1	1.830	2.688	12.5	20.2	12 17	3 32.36	+6 33.5	2.356	3.214	10.1	21.3
12 27	3 14.61	+45 49.6	1.881	2.676	14.8	20.3	12 27	3 28.07	+6 24.7	2.454	3.222	12.6	21.5
<b>103209</b>	1999 <i>XX</i> <sub>256</sub>		11 21.8 110°01	2°0/22.6	18		<b>509483</b>	2007 <i>TE</i> <sub>145</sub>		11 21.8 66°20	4°1/19.7	17	
10 18	4 21.63	+24 32.7	1.900	2.715	14.5	19.5	10 18	4 18.24	+13 49.4	1.588	2.431	15.6	21.4
10 28	4 15.07	+25 5.3	1.831	2.726	11.1	19.3	10 28	4 12.25	+12 28.7	1.549	2.461	11.6	21.2
11 7	4 6.00	+25 30.3	1.786	2.738	7.2	19.1	11 7	4 4.01	+11 6.8	1.533	2.491	7.4	21.0
11 17	3 55.24	+25 46.0	1.768	2.749	3.2	18.9	11 17	3 54.51	+9 49.9	1.544	2.522	4.3	20.9
11 27	3 43.97	+25 52.1	1.779	2.760	2.8	18.9	11 27	3 44.95	+8 44.4	1.583	2.552	5.4	21.1
12 7	3 33.49	+25 50.8	1.820	2.770	6.6	19.1	12 7	3 36.50	+7 55.1	1.650	2.582	8.9	21.3
12 17	3 24.86	+25 45.6	1.888	2.780	10.4	19.4	12 17	3 30.01	+7 24.5	1.742	2.611	12.4	21.6
12 27	3 18.86	+25 40.7	1.980	2.790	13.6	19.6	12 27	3 26.03	+7 12.9	1.856	2.641	15.4	21.9
<b>260121</b>	2004 <i>PX</i> <sub>43</sub>		11 21.8 7°22	6°5/18.8	18		<b>189911</b>	2003 <i>ST</i> <sub>115</sub>		11 21.8 84°42	5°0/18.9	18	
10 18	4 13.18	+4 17.7	1.804	2.644	14.1	19.7	10 18	4 13.12	+6 22.4	2.233	3.064	12.1	20.4
10 28	4 8.60	+3 28.6	1.742	2.644	11.1	19.5	10 28	4 8.14	+5 33.9	2.172	3.073	9.3	20.2
11 7	4 1.93	+2 46.5	1.702	2.645	8.2	19.3	11 7	4 1.46	+4 49.7	2.136	3.081	6.6	20.1
11 17	3 53.88	+2 16.5	1.688	2.647	6.5	19.2	11 17	3 53.71	+4 13.8	2.127	3.090	5.0	20.0
11 27	3 45.45	+2 2.9	1.700	2.649	7.4	19.3	11 27	3 45.71	+3 49.6	2.147	3.099	5.8	20.1
12 7	3 37.68	+2 8.2	1.739	2.651	10.0	19.5	12 7	3 38.29	+3 39.7	2.195	3.108	8.1	20.2
12 17	3 31.47	+2 32.4	1.803	2.654	13.0	19.7	12 17	3 32.16	+3 44.6	2.269	3.116	10.8	20.4
12 27	3 27.45	+3 13.6	1.887	2.657	15.7	19.9	12 27	3 27.87	+4 3.9	2.366	3.125	13.2	20.6
<b>221403</b>	2005 <i>YV</i> <sub>79</sub>		11 21.8 289°87	0°7/22.2	17		<b>66568</b>	1999 <i>RQ</i> <sub>142</sub>		11 21.8 16°90	2°4/20.9	18	
10 18	4 14.79	+23 0.1	2.121	2.946	12.9	21.4	10 18	4 14.78	+15 48.2	1.252	2.114	17.7	18.3
10 28	4 9.82	+22 53.5	2.034	2.936	9.8	21.2	10 28	4 10.66	+15 30.1	1.197	2.120	13.3	18.1
11 7	4 2.73	+22 39.5	1.970	2.927	6.2	21.0	11 7	4 3.57	+15 9.5	1.161	2.126	8.3	17.8
11 17	3 54.17	+22 18.5	1.934	2.918	2.2	20.7	11 17	3 54.49	+14 49.5	1.150	2.134	3.3	17.6
11 27	3 45.10	+21 52.3	1.927	2.909	2.1	20.7	11 27	3 44.89	+14 34.1	1.163	2.143	4.2	17.7
12 7	3 36.56	+21 24.0	1.948	2.900	6.1	20.9	12 7	3 36.33	+14 27.2	1.202	2.153	9.2	18.0
12 17	3 29.47	+20 57.4	1.998	2.892	9.8	21.1	12 17	3 30.04	+14 31.5	1.264	2.164	13.8	18.3
12 27	3 24.56	+20 36.2	2.071	2.883	13.0	21.3	12 27	3 26.81	+14 48.3	1.347	2.176	17.8	18.6
<b>416642</b>	2004 <i>TZ</i> <sub>45</sub>		11 21.8 356°50	3°4/23.2	17		<b>389542</b>	2010 <i>KG</i> <sub>117</sub>		11 21.8 161°32	3°6/19.6	18	
10 18	4 17.40	+28 17.9	1.929	2.743	14.4	20.7	10 18	4 16.03	+10 7.8	2.472	3.294	11.3	22.2
10 28	4 12.10	+28 54.9	1.851	2.741	11.2	20.5	10 28	4 10.16	+9 20.4	2.402	3.302	8.6	22.0
11 7	4 4.30	+29 22.2	1.795	2.740	7.7	20.3	11 7	4 2.65	+8 34.0	2.358	3.309	5.7	21.8
11 17	3 54.72	+29 37.3	1.765	2.739	4.3	20.1	11 17	3 54.10	+7 51.7	2.343	3.315	3.7	21.7
11 27	3 44.51	+29 39.7	1.763	2.739	3.8	20.1	11 27	3 45.30	+7 17.2	2.358	3.320	4.5	21.8
12 7	3 34.92	+29 31.4	1.789	2.739	6.8	20.3	12 7	3 37.04	+6 53.0	2.403	3.325	7.1	21.9
12 17	3 27.09	+29 16.2	1.843	2.739	10.4	20.5	12 17	3 30.03	+6 40.9	2.476	3.329	9.8	22.1
12 27	3 21.82	+28 59.2	1.920	2.740	13.6	20.7	12 27	3 24.80	+6 41.4	2.573	3.332	12.3	22.3
<b>112011</b>	2002 <i>GW</i> <sub>158</sub>		11 21.8 77°74	2°6/21.0	18 R		<b>232636</b>	2003 <i>UY</i> <sub>248</sub>		11 21.8 55°40	2°8/23.3	18	
10 18	4 22.34	+14 20.3	1.341	2.187	17.7	19.6	10 18	4 16.75	+28 43.2	2.032	2.843	13.8	20.5
10 28	4 15.98	+14 13.4	1.291	2.205	13.3	19.3	10 28	4 11.24	+28 54.0	1.970	2.859	10.7	20.3
11 7	4 6.65	+14 6.3	1.263	2.224	8.3	19.1	11 7	4 3.54	+28 53.5	1.930	2.876	7.2	20.1
11 17	3 55.44	+14 1.0	1.259	2.242	3.5	18.9	11 17	3 54.42	+28 41.0	1.917	2.893	3.8	20.0
11 27	3 43.87	+14 0.4	1.282	2.261	4.2	19.0	11 27	3 44.98	+28 17.5	1.932	2.910	3.2	20.0
12 7	3 33.50	+14 7.1	1.332	2.279	9.0	19.3	12 7	3 36.32	+27 46.4	1.977	2.928	6.1	20.2
12 17	3 25.54	+14 22.9	1.407	2.297	13.4	19.6	12 17	3 29.37	+27 12.2	2.049	2.945	9.5	20.4
12 27	3 20.71	+14 48.7	1.503	2.315	17.1	19.9	12 27	3 24.77	+26 39.7	2.145	2.963	12.4	20.7
<b>473624</b>	2015 <i>XL</i> <sub>293</sub>		11 21.8 290°27	0°2/21.9	17		<b>142888</b>	2002 <i>VO</i> <sub>43</sub>		11 21.8 45°77	1°6/21.2	18	
10 18	4 14.78	+21 38.3	2.112	2.939	12.8	21.7	10 18	4 17.55	+15 47.6	1.686	2.525	14.9	19.5
10 28	4 9.81	+21 31.1	2.025	2.929	9.7	21.5	10 28	4 12.10	+15 48.3	1.622	2.533	11.2	19.3
11 7	4 2.73	+21 17.7	1.962	2.920	6.1	21.3	11 7	4 4.20	+15 47.6	1.580	2.541	6.9	19.0
11 17	3 54.18	+20 58.5	1.926	2.911	2.1	21.0	11 17	3 54.67	+15 47.0	1.564	2.549	2.6	18.8
11 27	3 45.12	+20 35.4	1.919	2.902	2.1	21.0	11 27	3 44.69	+15 48.2	1.577	2.557	3.2	18.8
12 7	3 36.58	+20 11.5	1.941	2.893	6.2	21.2	12 7	3 35.50	+15 53.6	1.617	2.565	7.5	19.1
12 17	3 29.49	+19 50.2	1.991	2.884	9.9	21.4	12 17	3 28.15	+16 5.2	1.684	2.574	11.6	19.4
12 27	3 24.55	+19 34.8	2.065	2.875	13.1	21.6	12 27	3 23.36	+16 24.5	1.773	2.583	15.0	19.6
<b>403858</b>	2011 <i>UD</i> <sub>344</sub>		11 21.8 41°97	0°7/21.4	18		<b>453533</b>	2009 <i>WP</i> <sub>16</sub>					



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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>294414</b>	2007 VG <sub>209</sub>		11 21.8 291°49	2°2/21.0	18		<b>484016</b>	2006 DK <sub>103</sub>		11 21.8 230°23	4°2/18.9	17	
10 18	4 18.53	+16 43.4	1.291	2.144	17.8	20.8	10 18	4 12.49	+7 9.1	2.678	3.502	10.5	22.5
10 28	4 13.76	+16 21.0	1.215	2.133	13.5	20.5	10 28	4 7.55	+6 22.1	2.595	3.493	8.1	22.4
11 7	4 5.73	+15 54.0	1.159	2.122	8.5	20.2	11 7	4 1.10	+5 37.4	2.538	3.484	5.7	22.2
11 17	3 55.30	+15 24.9	1.127	2.112	3.3	19.9	11 17	3 53.64	+4 58.5	2.510	3.474	4.3	22.1
11 27	3 43.96	+14 58.2	1.121	2.101	4.2	19.9	11 27	3 45.85	+4 28.6	2.511	3.463	5.0	22.1
12 7	3 33.45	+14 38.7	1.140	2.090	9.7	20.2	12 7	3 38.45	+4 10.3	2.541	3.453	7.2	22.2
12 17	3 25.25	+14 30.9	1.183	2.080	14.8	20.5	12 17	3 32.09	+4 4.9	2.598	3.442	9.7	22.4
12 27	3 20.39	+14 37.6	1.246	2.070	19.3	20.7	12 27	3 27.30	+4 12.7	2.680	3.431	12.0	22.5
<b>447156</b>	2005 HF <sub>10</sub>		11 21.8 147°10	0°9/21.2	18		<b>210734</b>	2000 TJ <sub>36</sub>		11 21.8 127°72	4°6/23.4	18	
10 18	4 16.56	+19 25.8	2.423	3.242	11.6	22.0	10 18	4 26.23	+29 45.4	1.551	2.360	17.5	20.2
10 28	4 10.63	+18 46.9	2.351	3.253	8.7	21.8	10 28	4 19.26	+30 35.2	1.484	2.370	13.8	20.0
11 7	4 2.96	+18 2.7	2.305	3.263	5.3	21.6	11 7	4 8.96	+31 12.0	1.438	2.380	9.6	19.8
11 17	3 54.21	+17 15.2	2.287	3.272	1.8	21.4	11 17	3 56.33	+31 31.1	1.418	2.390	5.7	19.6
11 27	3 45.22	+16 27.5	2.301	3.281	2.3	21.5	11 27	3 42.97	+31 30.9	1.425	2.399	5.0	19.6
12 7	3 36.85	+15 43.4	2.345	3.289	5.8	21.7	12 7	3 30.65	+31 14.3	1.460	2.407	8.3	19.8
12 17	3 29.82	+15 5.9	2.418	3.297	9.0	21.9	12 17	3 20.83	+30 47.6	1.521	2.415	12.3	20.1
12 27	3 24.69	+14 37.8	2.516	3.304	11.7	22.1	12 27	3 14.44	+30 18.7	1.605	2.423	15.9	20.3
<b>356842</b>	2011 VP <sub>22</sub>		11 21.8 291°93	3°4/20.3	18		<b>291516</b>	2006 DT <sub>209</sub>		11 21.8 189°59	4°0/19.4	18	
10 18	4 15.22	+12 30.5	1.841	2.681	13.9	21.2	10 18	4 12.92	+8 45.8	2.427	3.256	11.3	21.1
10 28	4 10.26	+11 58.9	1.764	2.675	10.5	20.9	10 28	4 7.97	+8 3.5	2.353	3.255	8.6	20.9
11 7	4 3.06	+11 27.2	1.710	2.668	6.8	20.7	11 7	4 1.38	+7 23.3	2.305	3.255	5.9	20.7
11 17	3 54.32	+10 58.4	1.682	2.662	3.7	20.5	11 17	3 53.73	+6 48.4	2.284	3.254	4.1	20.6
11 27	3 45.07	+10 36.4	1.683	2.656	4.5	20.5	11 27	3 45.77	+6 22.2	2.293	3.253	4.8	20.7
12 7	3 36.43	+10 24.5	1.712	2.649	8.1	20.8	12 7	3 38.29	+6 7.2	2.331	3.252	7.3	20.8
12 17	3 29.37	+10 24.8	1.766	2.643	11.9	21.0	12 17	3 32.00	+6 4.8	2.396	3.251	10.0	21.0
12 27	3 24.63	+10 38.2	1.843	2.637	15.1	21.2	12 27	3 27.43	+6 15.1	2.485	3.250	12.5	21.2
<b>159119</b>	2004 VE <sub>31</sub>		11 21.8 277°05	1°1/21.2	18		<b>126495</b>	2002 CO <sub>57</sub>		11 21.8 314°79	0°7/22.2	18	
10 18	4 14.35	+17 39.3	2.213	3.043	12.2	20.6	10 18	4 15.19	+23 5.5	1.996	2.823	13.5	19.8
10 28	4 9.31	+17 25.6	2.132	3.038	9.1	20.4	10 28	4 10.22	+22 59.2	1.915	2.818	10.2	19.6
11 7	4 2.34	+17 8.6	2.074	3.034	5.7	20.1	11 7	4 3.03	+22 45.1	1.856	2.813	6.4	19.4
11 17	3 54.06	+16 49.6	2.045	3.030	2.0	19.9	11 17	3 54.32	+22 23.6	1.824	2.809	2.3	19.1
11 27	3 45.35	+16 31.0	2.045	3.025	2.5	19.9	11 27	3 45.11	+21 56.8	1.822	2.804	2.2	19.1
12 7	3 37.16	+16 15.4	2.074	3.021	6.2	20.2	12 7	3 36.50	+21 27.9	1.848	2.800	6.3	19.4
12 17	3 30.32	+16 5.3	2.131	3.016	9.7	20.4	12 17	3 29.45	+21 0.8	1.901	2.796	10.2	19.6
12 27	3 25.48	+16 2.9	2.212	3.012	12.7	20.6	12 27	3 24.69	+20 39.5	1.978	2.792	13.5	19.8
<b>446762</b>	2015 PH <sub>34</sub>		11 21.8 150°59	0°4/21.6	18		<b>291801</b>	2006 KZ <sub>71</sub>		11 21.8 324°16	3°2/19.7	18	
10 18	4 18.82	+19 49.7	2.174	2.993	12.7	22.0	10 18	4 15.41	+18 50.1	1.621	2.464	15.3	19.8
10 28	4 12.57	+19 37.8	2.101	3.002	9.6	21.8	10 28	4 10.59	+16 59.1	1.545	2.460	11.4	19.6
11 7	4 4.28	+19 20.9	2.053	3.011	5.9	21.6	11 7	4 3.31	+14 56.0	1.493	2.455	7.1	19.3
11 17	3 54.68	+18 59.9	2.034	3.019	1.9	21.4	11 17	3 54.41	+12 47.7	1.468	2.450	3.4	19.1
11 27	3 44.72	+18 36.9	2.044	3.026	2.2	21.4	11 27	3 45.09	+10 43.7	1.473	2.446	4.9	19.2
12 7	3 35.43	+18 14.9	2.085	3.033	6.1	21.7	12 7	3 36.60	+8 53.6	1.506	2.442	9.2	19.4
12 17	3 27.68	+17 57.0	2.154	3.039	9.6	21.9	12 17	3 29.98	+7 24.7	1.565	2.439	13.3	19.7
12 27	3 22.08	+17 45.8	2.247	3.044	12.6	22.1	12 27	3 25.92	+6 20.6	1.646	2.435	16.9	19.9
<b>478515</b>	2012 SR <sub>46</sub>		11 21.8 32°23	1°1/21.4	16		<b>77045</b>	2001 CJ <sub>43</sub>		11 21.8 223°34	1°5/20.9	18	
10 18	4 16.24	+19 37.1	1.153	2.015	18.9	20.7	10 18	4 15.04	+14 31.9	2.932	3.749	9.9	19.8
10 28	4 11.84	+19 11.1	1.108	2.030	14.1	20.5	10 28	4 9.40	+14 26.1	2.838	3.738	7.4	19.7
11 7	4 4.28	+18 37.5	1.082	2.047	8.6	20.2	11 7	4 2.24	+14 19.6	2.771	3.727	4.6	19.5
11 17	3 54.71	+17 59.3	1.079	2.065	2.9	19.9	11 17	3 54.03	+14 13.6	2.733	3.715	2.0	19.3
11 27	3 44.78	+17 21.5	1.101	2.083	3.5	20.0	11 27	3 45.44	+14 9.5	2.726	3.703	2.5	19.3
12 7	3 36.14	+16 50.0	1.148	2.103	9.0	20.4	12 7	3 37.19	+14 8.9	2.750	3.690	5.3	19.5
12 17	3 30.02	+16 29.5	1.218	2.123	13.8	20.8	12 17	3 29.93	+14 13.2	2.804	3.677	8.1	19.6
12 27	3 27.14	+16 22.6	1.309	2.144	17.8	21.1	12 27	3 24.21	+14 23.6	2.884	3.663	10.6	19.8
<b>223126</b>	2002 VJ <sub>57</sub>		11 21.8 68°99	0°2/21.8	18		<b>201530</b>	2003 QL <sub>25</sub>		11 21.8 133°01	2°1/23.1	18	
10 18	4 21.46	+19 18.6	1.388	2.230	17.4	20.2	10 18	4 20.56	+28 4.2	2.193	2.994	13.3	21.2
10 28	4 15.49	+19 31.0	1.331	2.243	13.1	19.9	10 28	4 13.90	+27 57.3	2.124	3.009	10.2	21.0
11 7	4 6.48	+19 38.4	1.295	2.256	8.1	19.7	11 7	4 5.10	+27 39.4	2.078	3.024	6.7	20.8
11 17	3 55.46	+19 40.9	1.283	2.269	2.7	19.4	11 17	3 54.96	+27 9.9	2.060	3.039	3.2	20.6
11 27	3 43.93	+19 40.0	1.299	2.282	2.9	19.5	11 27	3 44.52	+26 30.9	2.073	3.052	2.7	20.6
12 7	3 33.49	+19 38.7	1.342	2.295	8.1	19.8	12 7	3 34.88	+25 45.9	2.115	3.065	5.9	20.8
12 17	3 25.41	+19 40.6	1.410	2.308	12.8	20.1	12 17	3 26.92	+24 59.9	2.186	3.077	9.2	21.1
12 27	3 20.50	+19 48.9	1.500	2.321	16.6	20.4	12 27	3 21.27	+24 17.6	2.283	3.089	12.2	21.3
<b>9357</b>	Venezuela		11 21.8 22°98	0°0/21.8	18		<b>248756</b>	2006 RD <sub>31</sub>		11 21.8 102°54	1°3/22.5	18	
10 18	4 14.95	+21 30.3	1.853	2.687	14.1	17.9	10 18	4 16.91	+25 31.3	1.922	2.742	14.1	20.4
10 28	4 10.06	+21 14.8	1.782	2.690	10.6	17.7	10 28	4 11.49	+25 13.5	1.849	2.748	10.8	20.2
11 7	4 2.92	+20 52.1	1.733	2.693	6.6	17.4	11 7	4 3.77	+24 45.1	1.799	2.754	6.9	20.0
11 17	3 54.26	+20 23.4	1.711	2.696	2.2	17.2	11 17	3 54.56	+24 6.7	1.776	2.759	2.8	19.7
11 27	3 45.18	+19 51.5	1.717	2.700	2.3	17.2	11 27	3 44.95	+23 20.9	1.782	2.765	2.4	19.7
12 7	3 36.80	+19 20.1	1.752	2.704	6.7	17.5	12 7	3 36.11	+22 32.2	1.817	2.770	6.4	20.0
12 17	3 30.10	+18 53.3	1.813	2.708	10.6	17.7	12 17	3 29.00	+21 45.6	1.879	2.775	10.2	20.2
12 27	3 25.77	+18 34.5	1.897	2.712	13.9	18.0	12 27	3 24.30	+21 5.9	1.966	2.781	13.5	20.5
<b>443317</b>	2014 FD <sub>52</sub>		11 21.8 254°84	1°3/22.4	18		<b>487209</b>	2014 OF <sub>377</sub>		11 21.8 20°69	4°7/20.1	18	
10 18	4 19.06	+24 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>43580</b>	2001 <i>KQ</i> <sub>37</sub>		11 21.8 156°71	3°1/20.0	18		<b>329893</b>	2005 <i>GU</i> <sub>36</sub>		11 21.8 125°97	1°4/22.4	18	
10 18	4 15.55	+13 50.0	1.989	2.824	13.2	19.2	10 18	4 22.42	+23 53.3	1.590	2.415	16.4	21.4
10 28	4 10.25	+12 57.3	1.918	2.827	9.9	19.0	10 28	4 16.05	+24 1.7	1.523	2.425	12.4	21.2
11 7	4 2.92	+12 2.3	1.872	2.830	6.3	18.8	11 7	4 6.80	+24 0.8	1.479	2.435	7.9	20.9
11 17	3 54.27	+11 9.0	1.853	2.833	3.4	18.6	11 17	3 55.62	+23 49.8	1.460	2.444	3.1	20.7
11 27	3 45.27	+10 21.9	1.864	2.835	4.3	18.7	11 27	3 43.92	+23 30.0	1.470	2.452	2.8	20.7
12 7	3 36.94	+9 44.9	1.903	2.837	7.7	18.9	12 7	3 33.18	+23 5.5	1.508	2.461	7.4	21.0
12 17	3 30.12	+9 21.1	1.968	2.839	11.1	19.1	12 17	3 24.64	+22 41.2	1.572	2.469	11.8	21.3
12 27	3 25.45	+9 11.6	2.057	2.841	14.1	19.3	12 27	3 19.10	+22 22.3	1.659	2.476	15.5	21.5
<b>351201</b>	2004 <i>FR</i> <sub>61</sub>		11 21.8 163°49	2°5/20.2	18		<b>138251</b>	2000 <i>FH</i> <sub>57</sub>		11 21.8 176°86	2°7/20.4	18	
10 18	4 15.18	+12 45.9	2.681	3.502	10.6	22.1	10 18	4 15.97	+13 37.6	2.121	2.951	12.6	20.6
10 28	4 9.47	+12 10.1	2.607	3.508	7.9	22.0	10 28	4 10.50	+13 5.3	2.046	2.953	9.5	20.4
11 7	4 2.23	+11 33.8	2.559	3.514	5.1	21.8	11 7	4 3.08	+12 31.8	1.996	2.954	6.0	20.2
11 17	3 54.02	+10 59.4	2.541	3.519	2.8	21.6	11 17	3 54.36	+11 59.9	1.974	2.954	3.0	20.0
11 27	3 45.55	+10 29.6	2.554	3.524	3.4	21.7	11 27	3 45.26	+11 32.9	1.981	2.954	3.8	20.1
12 7	3 37.57	+10 7.0	2.597	3.528	6.1	21.9	12 7	3 36.75	+11 13.9	2.017	2.954	7.1	20.3
12 17	3 30.73	+9 53.3	2.668	3.531	8.8	22.1	12 17	3 29.67	+11 5.0	2.081	2.954	10.5	20.5
12 27	3 25.55	+9 49.6	2.765	3.534	11.3	22.2	12 27	3 24.65	+11 7.5	2.168	2.953	13.4	20.7
<b>6416</b>	Nyukasayama		11 21.8 11°31	0°3/21.9	18		<b>102913</b>	1999 <i>XT</i> <sub>21</sub>		11 21.8 70°01	4°9/19.7	18	
10 18	4 13.63	+22 20.4	1.806	2.642	14.3	17.4	10 18	4 17.91	+9 52.4	1.619	2.460	15.4	19.7
10 28	4 9.16	+22 5.7	1.735	2.644	10.7	17.2	10 28	4 12.11	+8 58.9	1.575	2.485	11.6	19.6
11 7	4 2.41	+21 43.1	1.687	2.647	6.7	17.0	11 7	4 4.05	+8 8.5	1.555	2.509	7.8	19.4
11 17	3 54.14	+21 13.6	1.665	2.651	2.3	16.7	11 17	3 54.63	+7 26.1	1.560	2.533	5.0	19.3
11 27	3 45.43	+20 40.1	1.672	2.655	2.3	16.7	11 27	3 45.06	+6 56.2	1.593	2.557	6.0	19.4
12 7	3 37.44	+20 6.5	1.706	2.659	6.7	17.0	12 7	3 36.48	+6 42.1	1.653	2.581	9.2	19.7
12 17	3 31.13	+19 37.0	1.766	2.664	10.6	17.2	12 17	3 29.79	+6 44.5	1.738	2.605	12.6	19.9
12 27	3 27.21	+19 15.3	1.850	2.670	14.0	17.5	12 27	3 25.58	+7 2.8	1.845	2.628	15.5	20.2
<b>488794</b>	2005 <i>AQ</i> <sub>34</sub>		11 21.8 265°88	9°9/14.9	18		<b>452936</b>	2006 <i>WY</i> <sub>143</sub>		11 21.8 71°48	0°2/21.7	15	
10 18	4 14.49	-14 53.6	2.696	3.452	12.2	21.4	10 18	4 18.18	+24 30.0	1.852	2.675	14.5	21.1
10 28	4 9.10	-15 49.6	2.622	3.432	11.0	21.3	10 28	4 12.14	+23 17.0	1.797	2.700	10.8	20.9
11 7	4 2.11	-16 30.0	2.570	3.411	10.2	21.2	11 7	4 3.98	+21 52.4	1.767	2.725	6.6	20.7
11 17	3 54.01	-16 49.9	2.542	3.390	9.9	21.1	11 17	3 54.60	+20 20.1	1.764	2.749	2.2	20.5
11 27	3 45.54	-16 45.4	2.539	3.368	10.5	21.1	11 27	3 45.14	+18 46.0	1.792	2.774	2.4	20.5
12 7	3 37.45	-16 15.5	2.560	3.347	11.6	21.2	12 7	3 36.69	+17 17.0	1.849	2.799	6.6	20.9
12 17	3 30.44	-15 21.4	2.604	3.325	13.1	21.3	12 17	3 30.09	+15 59.1	1.935	2.823	10.4	21.1
12 27	3 25.08	-14 6.3	2.668	3.303	14.5	21.3	12 27	3 25.85	+14 56.4	2.044	2.847	13.5	21.4
<b>70109</b>	1999 <i>KN</i> <sub>17</sub>		11 21.8 62°87	2°0/21.3	18		<b>387611</b>	2002 <i>EO</i> <sub>76</sub>		11 21.8 196°70	1°1/22.4	18	
10 18	4 22.28	+15 22.6	1.235	2.086	18.6	18.6	10 18	4 18.77	+24 11.4	1.954	2.773	14.0	21.9
10 28	4 16.27	+15 28.3	1.184	2.101	14.0	18.4	10 28	4 12.96	+24 4.0	1.873	2.772	10.7	21.6
11 7	4 7.03	+15 33.2	1.154	2.117	8.6	18.1	11 7	4 4.78	+23 47.6	1.815	2.770	6.8	21.4
11 17	3 55.68	+15 38.5	1.148	2.132	3.2	17.9	11 17	3 54.97	+23 22.2	1.784	2.767	2.6	21.1
11 27	3 43.87	+15 46.3	1.168	2.149	3.9	18.0	11 27	3 44.63	+22 49.8	1.782	2.764	2.3	21.1
12 7	3 33.31	+15 59.0	1.214	2.165	9.1	18.3	12 7	3 34.98	+22 14.0	1.809	2.761	6.5	21.4
12 17	3 25.31	+16 18.7	1.284	2.181	13.9	18.6	12 17	3 27.02	+21 39.5	1.864	2.757	10.4	21.6
12 27	3 20.68	+16 46.9	1.375	2.197	17.9	18.9	12 27	3 21.53	+21 10.7	1.943	2.753	13.8	21.8
<b>419343</b>	2009 <i>WP</i> <sub>181</sub>		11 21.8 321°11	0°3/22.0	17		<b>167353</b>	2003 <i>WR</i> <sub>27</sub>		11 21.8 44°72	2°2/22.8	18	
10 18	4 13.88	+25 16.7	2.187	3.006	12.7	20.3	10 18	4 18.06	+26 21.4	1.648	2.475	15.8	20.2
10 28	4 8.99	+24 15.9	2.101	3.001	9.6	20.1	10 28	4 12.79	+26 27.1	1.579	2.480	12.2	20.0
11 7	4 2.14	+23 3.1	2.040	2.997	6.0	19.9	11 7	4 4.80	+26 21.3	1.532	2.485	7.9	19.8
11 17	3 54.03	+21 40.5	2.007	2.992	2.1	19.6	11 17	3 54.99	+26 3.4	1.510	2.491	3.6	19.5
11 27	3 45.59	+20 12.6	2.005	2.988	2.0	19.6	11 27	3 44.64	+25 34.8	1.516	2.497	3.0	19.5
12 7	3 37.78	+18 45.4	2.033	2.984	6.0	19.9	12 7	3 35.17	+24 59.8	1.549	2.503	7.1	19.8
12 17	3 31.44	+17 24.7	2.089	2.980	9.6	20.1	12 17	3 27.73	+24 23.9	1.609	2.510	11.3	20.0
12 27	3 27.15	+16 15.5	2.171	2.976	12.8	20.3	12 27	3 23.10	+23 52.7	1.691	2.516	14.9	20.3
<b>189205</b>	2003 <i>SY</i> <sub>147</sub>		11 21.8 64°08	7°1/25.4	18		<b>256747</b>	2008 <i>BD</i> <sub>29</sub>		11 21.8 62°46	1°7/22.7	18	
10 18	4 23.86	+39 32.2	2.108	2.867	15.1	19.7	10 18	4 17.41	+25 54.9	1.788	2.611	14.9	21.1
10 28	4 17.00	+40 41.5	2.048	2.888	12.5	19.6	10 28	4 11.99	+25 49.9	1.723	2.623	11.4	20.9
11 7	4 7.36	+41 34.0	2.010	2.908	9.9	19.5	11 7	4 4.15	+25 34.1	1.681	2.635	7.3	20.7
11 17	3 55.81	+42 4.6	1.997	2.929	7.8	19.4	11 17	3 54.73	+25 7.6	1.665	2.647	3.1	20.4
11 27	3 43.68	+42 11.3	2.012	2.950	7.2	19.4	11 27	3 44.94	+24 32.5	1.677	2.659	2.6	20.4
12 7	3 32.42	+41 56.1	2.054	2.971	8.3	19.5	12 7	3 36.00	+23 53.2	1.717	2.671	6.6	20.7
12 17	3 23.24	+41 24.6	2.122	2.992	10.5	19.7	12 17	3 28.93	+23 14.6	1.784	2.683	10.5	21.0
12 27	3 16.95	+40 44.0	2.214	3.013	12.8	19.9	12 27	3 24.43	+22 41.6	1.875	2.696	13.9	21.2
<b>722</b>	Frieda		11 21.8 100°16	1°1/22.2	18		<b>361801</b>	2008 <i>CR</i> <sub>20</sub>		11 21.8 2°67	3°3/20.4	18	
10 18	4 24.58	+22 20.7	1.388	2.222	17.9	15.7	10 18	4 14.84	+13 1.6	1.719	2.563	14.5	20.9
10 28	4 17.88	+22 36.1	1.331	2.238	13.5	15.5	10 28	4 10.08	+12 29.5	1.649	2.562	10.9	20.7
11 7	4 8.00	+22 43.1	1.296	2.254	8.5	15.2	11 7	4 3.01	+11 57.0	1.603	2.562	7.0	20.5
11 17	3 56.01	+22 40.9	1.285	2.269	3.1	14.9	11 17	3 54.38	+11 27.5	1.582	2.562	3.7	20.3
11 27	3 43.53	+22 30.6	1.301	2.284	2.9	15.0	11 27	3 45.29	+11 4.8	1.589	2.563	4.5	20.3
12 7	3 32.26	+22 16.1	1.346	2.299	8.1	15.3	12 7	3 36.90	+10 52.5	1.624	2.564	8.3	20.6
12 17	3 23.50	+22 2.4	1.415	2.313	12.7	15.6	12 17	3 30.20	+10 52.6	1.684	2.565	12.1	20.8
12 27	3 18.08	+21 54.3	1.507	2.327	16.6	15.9	12 27	3 25.91	+11 6.0	1.766	2.567	15.4	21.0
<b>166340</b>	2002 <i>JQ</i> <sub>129</sub>		11 21.8 123°03	2°5/20.6	18		<b>434215</b>	2003 <i>SO</i> <sub>56</sub>		11 21.8 47°21			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>446706</b>	2015 <i>OO</i> <sub>32</sub>		11 21.8	9°82	7°1/19.1	18	<b>21160</b>	Saveriolombardi		11 21.8	259°99	2°5/20.2	18
10 18	4 15.77	+ 2 53.1	1.685	2.521	15.1	20.7	10 18	4 13.18	+15 3.4	2.237	3.070	12.0	17.9
10 28	4 10.73	+ 2 12.6	1.622	2.522	12.0	20.5	10 28	4 8.39	+14 13.9	2.157	3.065	9.0	17.7
11 7	4 3.37	+ 1 41.3	1.582	2.523	9.0	20.3	11 7	4 1.79	+13 21.2	2.101	3.060	5.7	17.5
11 17	3 54.49	+ 1 24.3	1.567	2.524	7.2	20.2	11 17	3 53.97	+12 28.6	2.074	3.055	2.8	17.3
11 27	3 45.18	+ 1 25.9	1.578	2.525	7.9	20.3	11 27	3 45.79	+11 39.9	2.076	3.049	3.6	17.4
12 7	3 36.58	+ 1 47.7	1.616	2.527	10.6	20.4	12 7	3 38.12	+10 59.1	2.107	3.044	6.9	17.5
12 17	3 29.70	+ 2 28.9	1.677	2.529	13.7	20.6	12 17	3 31.76	+10 29.3	2.165	3.038	10.1	17.7
12 27	3 25.22	+ 3 27.1	1.760	2.532	16.6	20.8	12 27	3 27.30	+10 12.1	2.248	3.033	13.0	17.9
<b>354281</b>	2002 <i>RN</i> <sub>246</sub>		11 21.8	23°71	10°4/26.7	17	<b>319532</b>	2006 <i>RE</i> <sub>57</sub>		11 21.8	14°96	4°2/19.8	17
10 18	4 21.22	+42 31.9	1.415	2.197	20.2	20.0	10 18	4 9.61	+16 20.1	1.107	1.983	18.4	19.7
10 28	4 16.35	+43 46.0	1.357	2.206	17.2	19.8	10 28	4 6.94	+14 52.4	1.063	1.993	13.7	19.4
11 7	4 7.57	+44 34.9	1.317	2.216	14.0	19.6	11 7	4 1.32	+13 18.7	1.038	2.005	8.6	19.2
11 17	3 56.00	+44 51.0	1.298	2.227	11.4	19.5	11 17	3 53.84	+11 47.4	1.037	2.019	4.5	19.0
11 27	3 43.58	+44 31.0	1.302	2.239	10.4	19.5	11 27	3 46.02	+10 28.2	1.060	2.035	5.9	19.1
12 7	3 32.47	+43 39.0	1.329	2.252	11.5	19.6	12 7	3 39.35	+ 9 28.9	1.107	2.052	10.5	19.4
12 17	3 24.37	+42 24.8	1.380	2.265	14.0	19.8	12 17	3 34.95	+ 8 53.6	1.176	2.071	15.0	19.8
12 27	3 20.26	+41 0.9	1.452	2.279	16.8	20.0	12 27	3 33.48	+ 8 42.7	1.264	2.092	18.8	20.1
<b>186453</b>	2002 <i>SU</i> <sub>51</sub>		11 21.8	357°41	0°9/21.6	18	<b>332496</b>	2008 <i>FW</i> <sub>73</sub>		11 21.8	137°04	1°0/22.2	18
10 18	4 19.78	+17 5.2	1.288	2.139	18.0	19.6	10 18	4 22.84	+22 48.5	1.837	2.654	14.8	21.5
10 28	4 14.68	+17 24.3	1.221	2.138	13.6	19.4	10 28	4 16.00	+22 57.2	1.769	2.667	11.2	21.3
11 7	4 6.30	+17 41.7	1.173	2.136	8.5	19.1	11 7	4 6.64	+22 58.5	1.724	2.679	7.1	21.0
11 17	3 55.56	+17 57.7	1.150	2.136	2.9	18.7	11 17	3 55.60	+22 51.7	1.706	2.690	2.6	20.8
11 27	3 44.00	+18 13.2	1.153	2.135	3.3	18.8	11 27	3 44.12	+22 38.1	1.718	2.701	2.4	20.8
12 7	3 33.36	+18 30.1	1.182	2.136	8.9	19.1	12 7	3 33.49	+22 20.9	1.759	2.710	6.7	21.1
12 17	3 25.11	+18 50.9	1.235	2.137	13.9	19.4	12 17	3 24.79	+22 4.0	1.828	2.720	10.7	21.4
12 27	3 20.22	+19 18.2	1.309	2.138	18.2	19.7	12 27	3 18.76	+21 51.5	1.921	2.728	14.1	21.6
<b>272526</b>	2005 <i>UT</i> <sub>273</sub>		11 21.8	199°89	2°3/22.7	18	<b>365300</b>	2009 <i>RK</i> <sub>52</sub>		11 21.8	108°90	3°6/19.6	18
10 18	4 21.64	+25 23.0	1.721	2.540	15.6	21.2	10 18	4 13.40	+11 18.4	2.299	3.131	11.7	21.4
10 28	4 15.53	+25 45.5	1.642	2.539	12.0	20.9	10 28	4 8.38	+10 24.3	2.234	3.140	8.9	21.2
11 7	4 6.58	+25 58.8	1.585	2.537	7.9	20.7	11 7	4 1.67	+ 9 30.3	2.194	3.148	5.9	21.1
11 17	3 55.62	+26 1.1	1.554	2.534	3.6	20.4	11 17	3 53.91	+ 8 40.2	2.182	3.156	3.7	20.9
11 27	3 43.94	+25 52.5	1.551	2.532	3.1	20.4	11 27	3 45.90	+ 7 57.9	2.200	3.164	4.5	21.0
12 7	3 33.00	+25 35.9	1.577	2.529	7.3	20.6	12 7	3 38.47	+ 7 26.5	2.246	3.172	7.2	21.2
12 17	3 24.06	+25 16.0	1.629	2.526	11.5	20.9	12 17	3 32.32	+ 7 8.0	2.320	3.180	10.1	21.4
12 27	3 18.03	+24 58.0	1.705	2.522	15.2	21.1	12 27	3 27.97	+ 7 3.2	2.417	3.188	12.6	21.6
<b>486999</b>	2014 <i>NO</i> <sub>55</sub>		11 21.8	259°30	7°4/25.7	17	<b>438490</b>	2007 <i>GG</i> <sub>31</sub>		11 21.8	215°91	0°8/21.4	18
10 18	4 21.31	+41 8.5	2.166	2.920	14.9	20.9	10 18	4 18.49	+19 41.0	1.886	2.715	14.1	22.2
10 28	4 15.32	+41 57.6	2.078	2.912	12.6	20.8	10 28	4 12.79	+19 15.4	1.803	2.709	10.6	22.0
11 7	4 6.50	+42 29.6	2.010	2.905	10.1	20.6	11 7	4 4.71	+18 43.3	1.743	2.703	6.6	21.8
11 17	3 55.61	+42 39.7	1.967	2.897	8.1	20.4	11 17	3 54.99	+18 6.3	1.711	2.696	2.2	21.5
11 27	3 43.92	+42 25.5	1.951	2.890	7.4	20.4	11 27	3 44.73	+17 27.5	1.707	2.689	2.7	21.5
12 7	3 32.88	+41 48.8	1.963	2.882	8.5	20.4	12 7	3 35.11	+16 51.1	1.733	2.681	7.1	21.8
12 17	3 23.78	+40 55.1	2.000	2.874	10.8	20.6	12 17	3 27.17	+16 21.4	1.786	2.673	11.2	22.0
12 27	3 17.55	+39 52.4	2.062	2.866	13.4	20.7	12 27	3 21.68	+16 1.7	1.862	2.665	14.6	22.2
<b>135005</b>	2001 <i>HC</i> <sub>54</sub>		11 21.8	169°23	14°4/13.8	18	<b>139229</b>	2001 <i>HU</i> <sub>13</sub>		11 21.8	96°20	1°2/22.3	18
10 18	4 19.79	- 2 35.6	1.155	1.999	20.1	19.7	10 18	4 22.27	+22 48.5	1.515	2.346	16.8	19.8
10 28	4 14.47	- 5 42.0	1.112	2.001	17.1	19.5	10 28	4 16.04	+23 4.5	1.452	2.357	12.7	19.6
11 7	4 5.97	- 8 33.8	1.089	2.003	14.9	19.4	11 7	4 6.87	+23 12.4	1.411	2.369	8.0	19.4
11 17	3 55.38	-10 54.0	1.089	2.005	14.5	19.4	11 17	3 55.71	+23 11.3	1.396	2.380	3.1	19.1
11 27	3 44.29	-12 29.0	1.112	2.006	16.1	19.5	11 27	3 44.02	+23 2.2	1.408	2.391	2.8	19.1
12 7	3 34.36	-13 13.2	1.155	2.006	18.8	19.7	12 7	3 33.34	+22 48.5	1.448	2.402	7.6	19.5
12 17	3 26.90	-13 9.3	1.216	2.006	21.6	19.9	12 17	3 24.92	+22 34.8	1.514	2.413	12.1	19.7
12 27	3 22.71	-12 25.1	1.292	2.006	24.2	20.1	12 27	3 19.58	+22 25.9	1.603	2.423	15.8	20.0
<b>414575</b>	2009 <i>SN</i> <sub>356</sub>		11 21.8	95°48	2°7/23.2	18	<b>114023</b>	Harvanek		11 21.8	106°83	1°5/22.4	18
10 18	4 19.03	+27 59.4	2.350	3.150	12.5	21.2	10 18	4 21.70	+22 53.5	1.957	2.773	14.1	20.1
10 28	4 12.78	+28 28.6	2.281	3.165	9.7	21.0	10 28	4 15.11	+23 28.9	1.887	2.784	10.7	19.9
11 7	4 4.48	+28 48.9	2.237	3.181	6.5	20.9	11 7	4 6.10	+23 58.4	1.842	2.795	6.8	19.7
11 17	3 54.85	+28 58.8	2.221	3.196	3.5	20.7	11 17	3 55.44	+24 20.4	1.823	2.806	2.8	19.4
11 27	3 44.84	+28 58.2	2.235	3.211	3.0	20.7	11 27	3 44.28	+24 34.7	1.835	2.816	2.5	19.4
12 7	3 35.47	+28 49.2	2.278	3.226	5.7	20.9	12 7	3 33.84	+24 42.7	1.876	2.826	6.4	19.7
12 17	3 27.62	+28 35.1	2.350	3.241	8.7	21.1	12 17	3 25.18	+24 47.3	1.944	2.836	10.2	20.0
12 27	3 21.92	+28 19.9	2.448	3.255	11.4	21.3	12 27	3 19.04	+24 52.2	2.038	2.846	13.3	20.2
<b>339222</b>	2004 <i>TC</i> <sub>324</sub>		11 21.8	83°25	0°2/21.9	18	<b>35513</b>	1998 <i>FL</i> <sub>53</sub>		11 21.8	65°66	0°2/21.9	18
10 18	4 19.51	+20 22.1	1.658	2.491	15.5	20.3	10 18	4 15.94	+21 52.0	1.943	2.771	13.7	19.0
10 28	4 13.78	+20 30.8	1.588	2.496	11.7	20.1	10 28	4 10.69	+21 37.0	1.875	2.781	10.3	18.8
11 7	4 5.39	+20 34.1	1.542	2.501	7.3	19.9	11 7	4 3.29	+21 14.8	1.831	2.790	6.4	18.6
11 17	3 55.20	+20 32.0	1.521	2.507	2.4	19.6	11 17	3 54.49	+20 46.6	1.814	2.799	2.1	18.4
11 27	3 44.46	+20 25.8	1.529	2.512	2.5	19.6	11 27	3 45.33	+20 15.0	1.826	2.809	2.2	18.4
12 7	3 34.54	+20 18.5	1.565	2.517	7.3	19.9	12 7	3 36.90	+19 43.6	1.867	2.818	6.3	18.7
12 17	3 26.58	+20 13.6	1.627	2.522	11.5	20.2	12 17	3 30.11	+19 16.2	1.934	2.828	10.1	18.9
12 27	3 21.37	+20 14.3	1.712	2.528	15.2	20.4	12 27	3 25.61	+18 56.3	2.026	2.838	13.3	19.2
<b>268903</b>	2007 <i>BQ</i> <sub>74</sub>		11 21.8	200°44	0°3/21.9	18	<b>70016</b>	1998 <i></i>					

EPHEMERIDES

11 21.8

11 21.9

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>54075</b>	2000 GY <sub>153</sub>		11 21.8 186°00	4°1/23.9	18		<b>82617</b>	2001 OR <sub>101</sub>		11 21.9 230°44	1°6/21.3	18	
10 18	4 22.44	+32 20.5	2.038	2.828	14.5	19.2	10 18	4 20.29	+16 23.3	1.687	2.521	15.2	19.9
10 28	4 15.84	+32 34.2	1.955	2.828	11.5	19.0	10 28	4 14.44	+16 19.9	1.606	2.515	11.5	19.6
11 7	4 6.64	+32 33.7	1.893	2.828	8.2	18.8	11 7	4 5.92	+16 14.1	1.548	2.508	7.2	19.4
11 17	3 55.65	+32 16.6	1.859	2.827	5.0	18.6	11 17	3 55.48	+16 7.3	1.516	2.501	2.7	19.1
11 27	3 44.08	+31 43.2	1.853	2.825	4.3	18.6	11 27	3 44.34	+16 1.7	1.513	2.494	3.3	19.1
12 7	3 33.26	+30 56.9	1.876	2.822	6.9	18.7	12 7	3 33.87	+15 59.8	1.538	2.486	7.9	19.4
12 17	3 24.31	+30 3.6	1.928	2.819	10.3	18.9	12 17	3 25.26	+16 4.6	1.589	2.478	12.2	19.6
12 27	3 18.04	+29 10.1	2.004	2.815	13.4	19.1	12 27	3 19.37	+16 18.0	1.663	2.469	16.0	19.8
<b>356929</b>	2012 RC <sub>36</sub>		11 21.8 183°06	3°8/23.4	18		<b>358223</b>	2006 SZ <sub>243</sub>		11 21.9 77°75	3°6/20.1	18	
10 18	4 22.06	+29 30.5	1.765	2.573	15.7	20.9	10 18	4 15.31	+12 31.9	1.856	2.695	13.8	21.0
10 28	4 15.89	+29 58.9	1.687	2.573	12.3	20.7	10 28	4 10.23	+11 46.6	1.790	2.700	10.4	20.8
11 7	4 6.83	+30 15.0	1.630	2.574	8.5	20.5	11 7	4 3.03	+11 0.9	1.748	2.706	6.7	20.6
11 17	3 55.75	+30 15.8	1.600	2.573	4.9	20.3	11 17	3 54.44	+10 18.5	1.733	2.711	3.8	20.4
11 27	3 43.96	+30 1.1	1.597	2.573	4.2	20.2	11 27	3 45.50	+9 43.8	1.746	2.716	4.7	20.5
12 7	3 32.96	+29 33.9	1.623	2.572	7.4	20.4	12 7	3 37.26	+9 20.3	1.787	2.722	8.1	20.7
12 17	3 24.01	+28 59.6	1.675	2.571	11.3	20.7	12 17	3 30.62	+9 10.4	1.854	2.727	11.6	20.9
12 27	3 18.01	+28 25.1	1.751	2.569	14.8	20.9	12 27	3 26.22	+9 14.8	1.944	2.732	14.6	21.1
<b>9316</b>	Rhamnus		11 21.8 23°70	4°7/19.1	18		<b>471017</b>	2009 SZ <sub>282</sub>		11 21.9 57°20	3°3/20.8	18	
10 18	4 12.83	+9 30.4	1.966	2.806	13.1	17.1	10 18	4 21.21	+14 32.3	1.222	2.075	18.6	20.6
10 28	4 8.25	+8 29.1	1.901	2.809	10.0	16.9	10 28	4 15.19	+14 0.6	1.185	2.102	13.9	20.4
11 7	4 1.74	+7 29.2	1.859	2.812	6.9	16.7	11 7	4 6.21	+13 28.1	1.168	2.130	8.6	20.2
11 17	3 53.98	+6 35.5	1.844	2.815	4.8	16.6	11 17	3 55.46	+12 58.6	1.175	2.158	3.9	20.0
11 27	3 45.88	+5 52.9	1.858	2.818	5.7	16.7	11 27	3 44.55	+12 36.7	1.208	2.185	4.8	20.1
12 7	3 38.41	+5 24.9	1.899	2.821	8.6	16.8	12 7	3 35.04	+12 26.1	1.267	2.213	9.4	20.5
12 17	3 32.38	+5 13.4	1.966	2.825	11.7	17.0	12 17	3 28.04	+12 29.0	1.351	2.241	13.8	20.8
12 27	3 28.39	+5 18.5	2.055	2.829	14.4	17.2	12 27	3 24.19	+12 45.8	1.454	2.269	17.4	21.1
<b>332924</b>	2011 CT <sub>26</sub>		11 21.8 209°95	2°4/20.3	17		<b>122157</b>	2000 JA <sub>73</sub>		11 21.9 120°78	4°6/19.8	18	
10 18	4 13.15	+12 53.4	2.729	3.553	10.3	22.0	10 18	4 18.47	+10 5.2	1.726	2.562	14.8	19.6
10 28	4 8.08	+12 26.3	2.646	3.549	7.8	21.8	10 28	4 12.65	+9 16.9	1.666	2.573	11.2	19.4
11 7	4 1.48	+11 58.9	2.589	3.544	5.0	21.6	11 7	4 4.53	+8 30.5	1.630	2.584	7.5	19.2
11 17	3 53.88	+11 33.1	2.560	3.539	2.6	21.5	11 17	3 54.94	+7 50.6	1.620	2.594	4.8	19.0
11 27	3 45.96	+11 11.4	2.562	3.534	3.2	21.5	11 27	3 45.02	+7 21.7	1.639	2.604	5.7	19.1
12 7	3 38.44	+10 56.1	2.594	3.528	5.9	21.7	12 7	3 35.93	+7 7.1	1.685	2.613	9.0	19.3
12 17	3 31.98	+10 48.9	2.654	3.522	8.7	21.8	12 17	3 28.63	+7 8.3	1.756	2.622	12.5	19.6
12 27	3 27.10	+10 50.8	2.739	3.516	11.2	22.0	12 27	3 23.77	+7 25.2	1.850	2.631	15.6	19.8
<b>340022</b>	2005 UE <sub>374</sub>		11 21.8 43°80	0°2/21.8	18		<b>392406</b>	2010 LQ <sub>67</sub>		11 21.9 199°15	1°7/21.0	18	
10 18	4 17.49	+22 14.3	1.463	2.305	16.7	20.5	10 18	4 17.79	+16 7.2	2.196	3.020	12.5	21.4
10 28	4 12.51	+21 40.3	1.396	2.309	12.6	20.3	10 28	4 11.94	+15 48.9	2.113	3.017	9.4	21.1
11 7	4 4.70	+20 55.7	1.352	2.313	7.8	20.0	11 7	4 4.06	+15 28.0	2.056	3.014	5.8	20.9
11 17	3 55.00	+20 2.7	1.332	2.318	2.6	19.7	11 17	3 54.81	+15 6.3	2.026	3.009	2.3	20.7
11 27	3 44.82	+19 5.9	1.340	2.323	2.8	19.8	11 27	3 45.11	+14 46.2	2.026	3.005	2.9	20.7
12 7	3 35.61	+18 11.7	1.374	2.328	8.0	20.1	12 7	3 35.96	+14 30.4	2.056	2.999	6.6	20.9
12 17	3 28.55	+17 26.0	1.434	2.333	12.6	20.4	12 17	3 28.22	+14 21.6	2.114	2.994	10.1	21.2
12 27	3 24.41	+16 53.4	1.516	2.338	16.5	20.6	12 27	3 22.56	+14 21.4	2.197	2.987	13.1	21.4
<b>21787</b>	1999 SG <sub>4</sub>		11 21.8 268°80	0°9/22.1	18		<b>446518</b>	2014 KJ <sub>101</sub>		11 21.9 218°48	0°3/21.7	18	
10 18	4 21.05	+20 45.9	1.830	2.654	14.6	17.3	10 18	4 17.13	+21 1.0	2.090	2.914	13.0	21.8
10 28	4 15.05	+21 20.4	1.740	2.642	11.1	17.0	10 28	4 11.60	+20 37.0	2.005	2.908	9.8	21.6
11 7	4 6.34	+21 51.6	1.674	2.630	7.1	16.7	11 7	4 3.92	+20 6.1	1.943	2.902	6.1	21.3
11 17	3 55.63	+22 17.8	1.634	2.618	2.6	16.4	11 17	3 54.78	+19 29.5	1.910	2.895	2.0	21.1
11 27	3 44.05	+22 38.6	1.623	2.606	2.5	16.4	11 27	3 45.15	+18 49.9	1.905	2.888	2.3	21.1
12 7	3 32.98	+22 55.0	1.642	2.594	7.1	16.7	12 7	3 36.10	+18 11.2	1.931	2.880	6.4	21.3
12 17	3 23.65	+23 9.2	1.688	2.581	11.3	16.9	12 17	3 28.56	+17 37.5	1.984	2.872	10.2	21.5
12 27	3 17.01	+23 24.8	1.757	2.569	15.0	17.1	12 27	3 23.23	+17 12.1	2.061	2.864	13.4	21.7
<b>444568</b>	2006 TH <sub>33</sub>		11 21.9 340°73	1°2/21.3	17		<b>124902</b>	2001 TP <sub>52</sub>		11 21.9 66°17	2°8/20.9	18	
10 18	4 14.75	+19 1.4	1.724	2.565	14.6	21.1	10 18	4 21.48	+16 15.6	1.144	2.000	19.4	20.4
10 28	4 10.15	+18 33.3	1.648	2.560	11.0	20.9	10 28	4 15.77	+15 41.7	1.099	2.018	14.5	20.1
11 7	4 3.15	+17 59.1	1.595	2.557	6.8	20.7	11 7	4 6.77	+15 4.1	1.073	2.037	9.0	19.9
11 17	3 54.51	+17 20.9	1.568	2.553	2.4	20.4	11 17	3 55.71	+14 26.8	1.071	2.055	3.7	19.7
11 27	3 45.36	+16 42.5	1.569	2.550	3.0	20.4	11 27	3 44.31	+13 55.0	1.094	2.074	4.6	19.8
12 7	3 36.89	+16 8.3	1.597	2.547	7.4	20.7	12 7	3 34.30	+13 33.9	1.143	2.092	9.8	20.1
12 17	3 30.16	+15 42.3	1.652	2.545	11.6	20.9	12 17	3 26.97	+13 26.9	1.215	2.111	14.6	20.5
12 27	3 25.90	+15 27.7	1.729	2.543	15.1	21.2	12 27	3 23.05	+13 35.2	1.307	2.129	18.6	20.8
<b>374681</b>	2006 QC <sub>50</sub>		11 21.9 31°28	4°5/20.5	18		<b>480353</b>	2015 KD <sub>18</sub>		11 21.9 98°46	6°9/18.6	18	
10 18	4 16.80	+12 58.0	0.993	1.866	20.3	20.4	10 18	4 18.60	+2 47.9	1.901	2.725	14.2	21.1
10 28	4 12.58	+12 21.6	0.952	1.880	15.3	20.2	10 28	4 12.33	+1 41.2	1.859	2.750	11.2	20.9
11 7	4 4.93	+11 46.3	0.930	1.895	9.8	20.0	11 7	4 4.12	+0 42.9	1.841	2.775	8.4	20.8
11 17	3 55.10	+11 17.5	0.930	1.912	5.1	19.8	11 17	3 54.76	-0 1.4	1.849	2.799	6.9	20.8
11 27	3 44.87	+11 0.9	0.954	1.930	6.1	19.9	11 27	3 45.27	-0 27.5	1.886	2.823	7.7	20.9
12 7	3 36.06	+11 0.3	1.000	1.949	11.0	20.2	12 7	3 36.64	-0 33.4	1.950	2.846	10.0	21.1
12 17	3 29.98	+11 17.0	1.069	1.968	15.8	20.6	12 17	3 29.67	-0 19.6	2.039	2.868	12.6	21.3
12 27	3 27.36	+11 50.1	1.156	1.989	19.8	20.9	12 27	3 24.88	+0 11.8	2.149	2.890	14.9	21.5
<b>158315</b>	2001 VX <sub>32</sub>		11 21.9 354°48	0°3/21.9	18 R		<b>396609</b>	2001 SW <sub>11</sub>		11 21.9 36°54	1°6/21.2	17	
10 18	4 14.58	+22 23.3	1.22										

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>412919</b>	2014 <i>QK</i> <sub>141</sub>		11 21.9 114°74	1.2°/21.2	18		<b>278476</b>	2007 <i>TT</i> <sub>405</sub>		11 21.9 112°18	2.1°/22.8	18	
10 18	4 15.12	+17 29.1	2.263	3.090	12.1	21.0	10 18	4 22.94	+25 43.2	2.168	2.970	13.4	20.8
10 28	4 9.82	+17 12.7	2.191	3.096	9.0	20.8	10 28	4 15.78	+26 10.3	2.104	2.992	10.2	20.7
11 7	4 2.68	+16 53.2	2.143	3.102	5.5	20.6	11 7	4 6.40	+26 29.2	2.065	3.013	6.7	20.5
11 17	3 54.33	+16 32.0	2.124	3.108	2.0	20.3	11 17	3 55.60	+26 38.3	2.054	3.033	3.1	20.3
11 27	3 45.66	+16 11.6	2.134	3.114	2.5	20.4	11 27	3 44.44	+26 37.9	2.073	3.053	2.7	20.3
12 7	3 37.56	+15 54.5	2.174	3.120	6.0	20.6	12 7	3 34.06	+26 30.2	2.123	3.072	5.9	20.5
12 17	3 30.81	+15 43.1	2.241	3.126	9.4	20.8	12 17	3 25.39	+26 18.6	2.201	3.090	9.3	20.8
12 27	3 26.01	+15 39.4	2.334	3.131	12.2	21.1	12 27	3 19.10	+26 7.3	2.304	3.108	12.2	21.0
<b>134979</b>	2001 <i>FF</i> <sub>53</sub>		11 21.9 235°09	5.2°/24.0	18		<b>380355</b>	2002 <i>RH</i> <sub>282</sub>		11 21.9 62°32	2.0°/21.1	18	
10 18	4 22.38	+33 37.5	2.065	2.850	14.5	20.2	10 18	4 21.37	+17 28.1	1.251	2.101	18.5	21.2
10 28	4 16.08	+34 26.3	1.975	2.842	11.8	20.0	10 28	4 15.38	+16 58.6	1.209	2.125	13.7	21.0
11 7	4 7.01	+35 2.8	1.907	2.833	8.7	19.8	11 7	4 6.39	+16 24.5	1.187	2.150	8.4	20.8
11 17	3 55.89	+35 22.7	1.865	2.824	6.0	19.6	11 17	3 55.58	+15 49.0	1.190	2.175	3.1	20.6
11 27	3 43.93	+35 24.1	1.851	2.815	5.4	19.5	11 27	3 44.56	+15 16.9	1.220	2.200	3.9	20.7
12 7	3 32.52	+35 8.3	1.867	2.805	7.5	19.6	12 7	3 34.89	+14 52.9	1.275	2.225	8.9	21.1
12 17	3 22.92	+34 39.9	1.909	2.795	10.7	19.8	12 17	3 27.74	+14 40.7	1.355	2.250	13.5	21.4
12 27	3 16.08	+34 5.7	1.976	2.784	13.7	20.0	12 27	3 23.76	+14 41.9	1.456	2.275	17.2	21.7
<b>368355</b>	2002 <i>QF</i> <sub>121</sub>		11 21.9 323°20	7.9°/16.5	18		<b>31612</b>	1999 <i>GG</i> <sub>6</sub>		11 21.9 259°80	4.4°/19.4	18	
10 18	4 11.92	- 3 18.6	2.341	3.153	12.2	20.5	10 18	4 14.32	+ 9 50.4	2.043	2.878	12.9	19.3
10 28	4 7.31	- 4 33.8	2.281	3.153	10.2	20.3	10 28	4 9.44	+ 8 57.1	1.964	2.870	9.8	19.1
11 7	4 1.08	- 5 39.1	2.244	3.152	8.6	20.2	11 7	4 2.57	+ 8 4.4	1.910	2.862	6.7	18.9
11 17	3 53.80	- 6 29.0	2.234	3.152	7.9	20.2	11 17	3 54.36	+ 7 16.8	1.882	2.854	4.5	18.7
11 27	3 46.23	- 6 59.1	2.251	3.152	8.7	20.2	11 27	3 45.70	+ 6 38.6	1.884	2.846	5.4	18.8
12 7	3 39.17	- 7 7.3	2.293	3.151	10.3	20.4	12 7	3 37.58	+ 6 13.7	1.913	2.837	8.4	19.0
12 17	3 33.28	- 6 53.8	2.360	3.151	12.3	20.5	12 17	3 30.85	+ 6 4.0	1.969	2.829	11.6	19.1
12 27	3 29.12	- 6 20.6	2.447	3.150	14.2	20.6	12 27	3 26.18	+ 6 10.1	2.047	2.820	14.5	19.3
<b>153124</b>	2000 <i>SR</i> <sub>102</sub>		11 21.9 359°89	10.5°/25.0	17		<b>196850</b>	2003 <i>SE</i> <sub>260</sub>		11 21.9 335°03	4.8°/18.1	18	
10 18	4 16.10	+38 14.7	1.257	2.072	20.4	19.4	10 18	4 12.04	+13 44.4	1.838	2.683	13.6	18.9
10 28	4 12.97	+40 1.6	1.193	2.067	17.3	19.2	10 28	4 7.92	+11 40.5	1.757	2.671	10.3	18.7
11 7	4 5.87	+41 28.9	1.146	2.064	14.0	19.0	11 7	4 1.70	+ 9 29.2	1.702	2.659	6.9	18.5
11 17	3 55.67	+42 27.2	1.121	2.063	11.3	18.8	11 17	3 54.07	+ 7 18.3	1.675	2.647	4.8	18.3
11 27	3 44.18	+42 50.4	1.117	2.064	10.5	18.8	11 27	3 46.01	+ 5 16.9	1.677	2.637	6.3	18.4
12 7	3 33.66	+42 39.7	1.137	2.067	12.2	18.9	12 7	3 38.58	+ 3 33.3	1.708	2.627	9.7	18.6
12 17	3 26.07	+42 2.7	1.178	2.072	15.1	19.1	12 17	3 32.65	+ 2 13.2	1.765	2.617	13.1	18.8
12 27	3 22.65	+41 11.0	1.238	2.078	18.3	19.3	12 27	3 28.91	+ 1 18.6	1.843	2.609	16.2	19.0
<b>411016</b>	2009 <i>UX</i> <sub>96</sub>		11 21.9 355°48	0.9°/21.4	17		<b>14351</b>	Tomaskohout		11 21.9 69°19	1.5°/21.3	18	
10 18	4 14.15	+18 24.3	1.948	2.784	13.4	21.0	10 18	4 20.34	+18 32.6	1.419	2.262	17.0	17.6
10 28	4 9.47	+18 11.8	1.872	2.782	10.0	20.8	10 28	4 14.40	+18 1.5	1.371	2.285	12.7	17.4
11 7	4 2.65	+17 55.2	1.820	2.780	6.2	20.6	11 7	4 5.72	+17 24.8	1.345	2.307	7.8	17.2
11 17	3 54.38	+17 35.9	1.794	2.779	2.1	20.3	11 17	3 55.36	+16 45.3	1.345	2.330	2.7	17.0
11 27	3 45.65	+17 16.5	1.797	2.779	2.6	20.4	11 27	3 44.77	+16 7.3	1.371	2.352	3.4	17.1
12 7	3 37.53	+16 59.8	1.828	2.778	6.7	20.6	12 7	3 35.36	+15 35.9	1.425	2.375	8.2	17.4
12 17	3 30.93	+16 49.0	1.886	2.778	10.4	20.9	12 17	3 28.21	+15 14.9	1.504	2.397	12.5	17.7
12 27	3 26.54	+16 46.2	1.968	2.779	13.7	21.1	12 27	3 23.97	+15 6.7	1.605	2.419	16.1	18.0
<b>223446</b>	2003 <i>SW</i> <sub>311</sub>		11 21.9 301°55	2.6°/23.2	18		<b>271106</b>	2003 <i>QL</i> <sub>114</sub>		11 21.9 98°10	3.3°/23.8	18	
10 18	4 15.57	+27 57.9	2.149	2.960	13.2	20.1	10 18	4 17.07	+31 6.1	2.321	3.116	12.8	21.1
10 28	4 10.63	+28 8.3	2.057	2.948	10.3	19.9	10 28	4 11.47	+31 18.8	2.245	3.123	10.1	20.9
11 7	4 3.45	+28 8.8	1.988	2.935	6.9	19.6	11 7	4 3.80	+31 20.0	2.193	3.131	7.0	20.7
11 17	3 54.68	+27 58.2	1.946	2.923	3.6	19.4	11 17	3 54.76	+31 8.4	2.168	3.138	4.2	20.5
11 27	3 45.31	+27 37.0	1.932	2.911	3.0	19.4	11 27	3 45.32	+30 44.5	2.172	3.146	3.5	20.5
12 7	3 36.44	+27 8.0	1.948	2.899	6.2	19.5	12 7	3 36.52	+30 11.1	2.206	3.153	5.9	20.7
12 17	3 29.07	+26 35.3	1.991	2.887	9.7	19.7	12 17	3 29.24	+29 32.6	2.267	3.160	8.9	20.9
12 27	3 23.96	+26 3.8	2.058	2.876	12.9	19.9	12 27	3 24.14	+28 53.9	2.354	3.167	11.6	21.1
<b>95656</b>	2002 <i>GL</i> <sub>109</sub>		11 21.9 22°83	7.2°/18.1	18		<b>389861</b>	2012 <i>RT</i> <sub>39</sub>		11 21.9 38°92	1.1°/22.3	18	
10 18	4 13.21	+ 1 28.8	1.985	2.814	13.4	19.3	10 18	4 18.79	+23 5.9	1.256	2.104	18.5	20.2
10 28	4 8.53	+ 0 28.7	1.924	2.817	10.8	19.1	10 28	4 13.82	+23 9.4	1.205	2.119	14.0	19.9
11 7	4 1.94	- 0 23.1	1.887	2.819	8.4	19.0	11 7	4 5.66	+23 2.8	1.173	2.134	8.8	19.7
11 17	3 54.12	- 1 1.1	1.876	2.822	7.2	18.9	11 17	3 55.42	+22 46.0	1.165	2.150	3.3	19.4
11 27	3 45.97	- 1 21.0	1.892	2.825	8.0	19.0	11 27	3 44.71	+22 21.8	1.183	2.166	2.9	19.4
12 7	3 38.43	- 1 20.5	1.934	2.828	10.1	19.1	12 7	3 35.23	+21 55.1	1.226	2.183	8.2	19.8
12 17	3 32.30	- 0 59.8	2.001	2.832	12.7	19.3	12 17	3 28.25	+21 31.5	1.294	2.201	13.0	20.1
12 27	3 28.18	- 0 20.8	2.089	2.835	15.1	19.5	12 27	3 24.55	+21 15.8	1.383	2.219	17.0	20.4
<b>294419</b>	2007 <i>VQ</i> <sub>219</sub>		11 21.9 356°23	0.2°/21.8	18		<b>413793</b>	2006 <i>HU</i> <sub>103</sub>		11 21.9 238°76	5.7°/18.4	17	
10 18	4 14.19	+19 45.1	1.299	2.157	17.4	19.7	10 18	4 12.55	+ 2 28.2	2.494	3.315	11.3	21.5
10 28	4 10.50	+19 50.3	1.231	2.151	13.2	19.4	10 28	4 7.74	+ 1 42.3	2.421	3.311	9.0	21.3
11 7	4 3.76	+19 49.8	1.183	2.147	8.2	19.1	11 7	4 1.36	+ 1 2.4	2.374	3.307	6.8	21.2
11 17	3 54.84	+19 44.3	1.159	2.145	2.7	18.8	11 17	3 53.94	+ 0 32.6	2.354	3.303	5.7	21.1
11 27	3 45.17	+19 35.9	1.160	2.143	3.0	18.8	11 27	3 46.20	+ 0 16.2	2.363	3.299	6.4	21.1
12 7	3 36.36	+19 28.2	1.186	2.143	8.4	19.1	12 7	3 38.91	+ 0 15.0	2.399	3.295	8.3	21.3
12 17	3 29.76	+19 25.3	1.236	2.144	13.4	19.4	12 17	3 32.73	+ 0 29.6	2.461	3.291	10.7	21.4
12 27	3 26.30	+19 30.6	1.307	2.146	17.6	19.7	12 27	3 28.20	+ 0 59.0	2.547	3.287	12.8	21.6
<b>403188</b>	2008 <i>JV</i> <sub>36</sub>		11 21.9 132°02	4.1°/19.4	18		<b>4</b>						

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>150220</b>	1998 SS <sub>134</sub>		11 21.9 50°88	3°0/20.8	18		<b>276831</b>	2004 QW <sub>2</sub>		11 21.9 152°83	0°1/21.9	18	
10 18	4 21.08	+16 26.2	1.136	1.994	19.4	19.0	10 18	4 20.45	+21 34.9	2.009	2.828	13.7	22.0
10 28	4 15.17	+15 38.1	1.105	2.025	14.4	18.8	10 28	4 14.08	+21 23.8	1.936	2.836	10.3	21.8
11 7	4 6.21	+14 46.8	1.094	2.057	8.8	18.6	11 7	4 5.46	+21 5.8	1.888	2.844	6.4	21.5
11 17	3 55.50	+13 57.2	1.106	2.090	3.7	18.4	11 17	3 55.36	+20 41.6	1.867	2.851	2.2	21.3
11 27	3 44.75	+13 15.3	1.144	2.122	4.7	18.5	11 27	3 44.87	+20 13.5	1.875	2.858	2.2	21.3
12 7	3 35.55	+12 46.3	1.208	2.155	9.6	18.9	12 7	3 35.10	+19 44.9	1.914	2.864	6.4	21.6
12 17	3 28.99	+12 33.1	1.295	2.188	14.1	19.3	12 17	3 27.03	+19 19.6	1.980	2.869	10.2	21.8
12 27	3 25.65	+12 36.3	1.402	2.221	17.7	19.6	12 27	3 21.33	+19 1.2	2.071	2.874	13.4	22.0
<b>458052</b>	2009 WL <sub>256</sub>		11 21.9 48°48	2°1/21.0	18		<b>247183</b>	2001 DP <sub>87</sub>		11 21.9 203°22	11°1/12.6	18	
10 18	4 16.21	+13 5.7	2.221	3.049	12.2	20.8	10 18	4 16.08	-18 6.1	2.641	3.379	12.9	20.4
10 28	4 10.70	+13 10.3	2.148	3.053	9.2	20.6	10 28	4 10.35	-19 38.1	2.589	3.373	11.8	20.3
11 7	4 3.28	+13 15.9	2.099	3.056	5.8	20.4	11 7	4 2.97	-20 52.6	2.558	3.367	11.2	20.3
11 17	3 54.60	+13 23.8	2.078	3.060	2.6	20.2	11 17	3 54.52	-21 43.9	2.552	3.360	11.2	20.3
11 27	3 45.51	+13 35.3	2.086	3.063	3.1	20.2	11 27	3 45.74	-22 7.5	2.569	3.352	11.7	20.3
12 7	3 36.97	+13 51.7	2.125	3.067	6.5	20.5	12 7	3 37.43	-22 2.5	2.608	3.343	12.7	20.4
12 17	3 29.78	+14 13.9	2.191	3.071	9.7	20.7	12 17	3 30.30	-21 30.3	2.667	3.334	13.9	20.4
12 27	3 24.57	+14 42.7	2.281	3.075	12.6	20.9	12 27	3 24.89	-20 34.4	2.744	3.324	15.1	20.5
<b>502000</b>	2015 AA <sub>33</sub>		11 21.9 49°49	1°6/21.3	17		<b>395223</b>	2010 LF <sub>61</sub>		11 21.9 229°48	4°9/19.5	18	
10 18	4 19.91	+18 19.4	1.125	1.984	19.5	20.9	10 18	4 17.12	+7 10.8	2.085	2.912	13.0	21.1
10 28	4 14.87	+17 56.7	1.073	1.994	14.6	20.7	10 28	4 11.54	+6 32.8	2.003	2.902	10.1	20.9
11 7	4 6.42	+17 27.8	1.041	2.005	9.0	20.4	11 7	4 3.92	+5 58.3	1.945	2.892	7.1	20.7
11 17	3 55.69	+16 55.5	1.031	2.016	3.2	20.1	11 17	3 54.88	+5 31.3	1.915	2.882	5.0	20.5
11 27	3 44.45	+16 24.4	1.046	2.028	3.9	20.2	11 27	3 45.34	+5 15.4	1.913	2.871	5.8	20.6
12 7	3 34.50	+16 0.1	1.087	2.040	9.6	20.6	12 7	3 36.32	+5 13.3	1.940	2.860	8.6	20.7
12 17	3 27.23	+15 47.2	1.150	2.052	14.7	20.9	12 17	3 28.69	+5 26.1	1.994	2.848	11.8	20.9
12 27	3 23.47	+15 48.4	1.233	2.065	18.9	21.2	12 27	3 23.15	+5 53.5	2.070	2.836	14.6	21.1
<b>82585</b>	2001 OV <sub>87</sub>		11 21.9 67°41	2°5/20.5	18		<b>175170</b>	2005 EG <sub>129</sub>		11 21.9 294°90	0°4/22.0	18	
10 18	4 20.06	+19 48.1	1.384	2.228	17.3	18.3	10 18	4 19.43	+21 48.0	1.347	2.191	17.7	20.8
10 28	4 14.07	+18 16.3	1.340	2.254	12.8	18.1	10 28	4 14.53	+21 44.2	1.271	2.184	13.5	20.5
11 7	4 5.42	+16 35.6	1.318	2.280	7.8	17.8	11 7	4 6.35	+21 31.5	1.215	2.176	8.5	20.2
11 17	3 55.24	+14 52.5	1.322	2.306	3.1	17.6	11 17	3 55.80	+21 10.1	1.183	2.168	3.0	19.8
11 27	3 44.99	+13 15.6	1.354	2.332	4.3	17.8	11 27	3 44.37	+20 42.4	1.178	2.161	2.9	19.8
12 7	3 36.04	+11 53.3	1.414	2.358	8.9	18.1	12 7	3 33.79	+20 13.3	1.198	2.154	8.6	20.1
12 17	3 29.38	+10 50.7	1.499	2.383	13.1	18.4	12 17	3 25.53	+19 48.4	1.243	2.146	13.7	20.4
12 27	3 25.58	+10 10.2	1.606	2.409	16.6	18.7	12 27	3 20.61	+19 33.0	1.309	2.139	18.1	20.7
<b>248397</b>	2005 SN <sub>65</sub>		11 21.9 56°32	3°0/23.5	18		<b>211402</b>	2002 VE <sub>50</sub>		11 21.9 22°56	2°1/21.2	18	
10 18	4 17.54	+29 27.9	1.856	2.669	14.9	20.5	10 18	4 16.60	+15 18.5	1.556	2.402	15.6	19.9
10 28	4 12.17	+29 30.3	1.790	2.680	11.6	20.3	10 28	4 11.70	+15 11.7	1.492	2.407	11.8	19.7
11 7	4 4.36	+29 19.6	1.746	2.692	7.8	20.1	11 7	4 4.21	+15 3.7	1.451	2.412	7.3	19.5
11 17	3 54.97	+28 55.0	1.727	2.704	4.2	19.9	11 17	3 54.99	+14 56.4	1.434	2.418	3.0	19.2
11 27	3 45.18	+28 17.9	1.737	2.716	3.4	19.9	11 27	3 45.27	+14 52.4	1.445	2.425	3.6	19.3
12 7	3 36.24	+27 32.8	1.775	2.728	6.6	20.1	12 7	3 36.37	+14 54.5	1.483	2.432	8.0	19.5
12 17	3 29.16	+26 45.1	1.841	2.740	10.2	20.4	12 17	3 29.38	+15 4.6	1.546	2.439	12.2	19.8
12 27	3 24.65	+26 0.7	1.930	2.752	13.4	20.6	12 27	3 25.07	+15 24.3	1.632	2.447	15.8	20.1
<b>243502</b>	2009 UE <sub>140</sub>		11 21.9 319°03	1°4/21.1	17		<b>382163</b>	2012 HZ <sub>47</sub>		11 21.9 171°85	2°6/20.8	16	
10 18	4 12.96	+18 11.4	2.021	2.858	12.9	20.4	10 18	4 20.70	+14 54.8	1.657	2.492	15.4	21.8
10 28	4 8.57	+17 39.1	1.936	2.847	9.7	20.1	10 28	4 14.65	+14 29.1	1.586	2.494	11.6	21.6
11 7	4 2.12	+17 1.6	1.875	2.836	6.0	19.9	11 7	4 6.00	+14 1.1	1.537	2.497	7.3	21.4
11 17	3 54.25	+16 21.1	1.840	2.825	2.2	19.6	11 17	3 55.59	+13 33.7	1.516	2.498	3.2	21.1
11 27	3 45.89	+15 41.2	1.834	2.815	2.9	19.7	11 27	3 44.65	+13 10.5	1.522	2.499	4.0	21.2
12 7	3 38.05	+15 5.7	1.857	2.804	6.8	19.9	12 7	3 34.51	+12 55.1	1.557	2.500	8.3	21.4
12 17	3 31.64	+14 38.2	1.907	2.795	10.5	20.1	12 17	3 26.29	+12 50.3	1.618	2.500	12.4	21.7
12 27	3 27.34	+14 21.5	1.980	2.785	13.8	20.3	12 27	3 20.77	+12 57.9	1.701	2.500	16.0	21.9
<b>497623</b>	2006 QA <sub>62</sub>		11 21.9 88°25	16°9/29.6	17		<b>400886</b>	2010 QE <sub>5</sub>		11 21.9 131°43	3°8/24.2	18	
10 18	4 38.10	+51 59.3	1.197	1.932	25.5	21.2	10 18	4 20.63	+33 2.8	2.404	3.185	12.9	21.8
10 28	4 31.51	+54 12.1	1.147	1.944	22.9	21.0	10 28	4 14.08	+33 20.0	2.331	3.198	10.2	21.6
11 7	4 18.38	+55 50.9	1.112	1.956	20.2	20.9	11 7	4 5.40	+33 24.6	2.282	3.212	7.3	21.5
11 17	4 0.05	+56 39.2	1.093	1.968	18.1	20.8	11 17	3 55.35	+33 14.8	2.260	3.224	4.7	21.3
11 27	3 39.89	+56 26.6	1.094	1.980	17.0	20.8	11 27	3 44.93	+32 51.0	2.268	3.237	4.0	21.3
12 7	3 22.07	+55 16.9	1.114	1.991	17.3	20.8	12 7	3 35.21	+32 15.9	2.306	3.249	6.0	21.4
12 17	3 9.63	+53 25.6	1.154	2.003	18.9	21.0	12 17	3 27.09	+31 34.1	2.372	3.260	8.8	21.6
12 27	3 3.78	+51 14.1	1.212	2.014	21.0	21.2	12 27	3 21.22	+30 50.8	2.464	3.270	11.4	21.8
<b>405347</b>	2003 UT <sub>401</sub>		11 21.9 309°58	2°8/20.1	17		<b>459558</b>	2013 GV <sub>82</sub>		11 21.9 59°62	2°3/20.9	18	
10 18	4 12.89	+14 32.1	2.159	2.994	12.3	21.2	10 18	4 16.69	+13 23.5	2.022	2.854	13.1	20.6
10 28	4 8.29	+13 40.2	2.081	2.990	9.2	21.0	10 28	4 11.19	+13 21.9	1.956	2.863	9.8	20.4
11 7	4 1.83	+12 45.5	2.027	2.986	5.9	20.8	11 7	4 3.65	+13 20.9	1.914	2.872	6.2	20.2
11 17	3 54.14	+11 51.4	2.001	2.981	3.0	20.6	11 17	3 54.78	+13 22.0	1.900	2.882	2.8	20.0
11 27	3 46.08	+11 2.1	2.005	2.977	3.9	20.6	11 27	3 45.54	+13 27.1	1.914	2.891	3.4	20.0
12 7	3 38.55	+10 21.6	2.037	2.973	7.1	20.8	12 7	3 36.95	+13 37.8	1.958	2.901	6.9	20.3
12 17	3 32.36	+9 53.0	2.096	2.969	10.4	21.0	12 17	3 29.87	+13 55.3	2.028	2.910	10.3	20.5
12 27	3 28.10	+9 37.9	2.179	2.966	13.3	21.2	12 27	3 24.93	+14 20.4	2.123	2.920	13.3	20.7
<b>163173</b>	2002 CX <sub>233</sub>		11 21.9 179°61	1°5/22.7	18		<b>77427</b>	2001 GX <sub>4</sub>		11 21.9 81°22	2°0/21.1	18	
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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>25829</b>	2000 <i>DU</i> <sub>108</sub>		11 21.9 139°77	1°0/22.5 18			<b>358686</b>	2007 <i>YR</i> <sub>55</sub>		11 21.9 96°40	2°5/23.2 18		
10 18	4 15.63	+23 55.0	2.660	3.469	11.0	18.7	10 18	4 17.90	+28 9.6	1.947	2.760	14.3	21.3
10 28	4 10.08	+23 56.7	2.583	3.476	8.3	18.5	10 28	4 12.45	+28 12.0	1.872	2.763	11.1	21.1
11 7	4 2.84	+23 52.1	2.531	3.483	5.3	18.4	11 7	4 4.62	+28 2.8	1.819	2.767	7.4	20.8
11 17	3 54.51	+23 41.4	2.507	3.490	2.1	18.2	11 17	3 55.17	+27 41.2	1.792	2.770	3.7	20.6
11 27	3 45.85	+23 25.5	2.514	3.496	1.8	18.1	11 27	3 45.24	+27 8.5	1.793	2.773	3.0	20.6
12 7	3 37.70	+23 6.9	2.552	3.503	4.9	18.4	12 7	3 36.04	+26 28.4	1.824	2.776	6.4	20.8
12 17	3 30.75	+22 48.0	2.618	3.508	7.9	18.6	12 17	3 28.60	+25 46.1	1.882	2.780	10.1	21.0
12 27	3 25.59	+22 31.8	2.710	3.514	10.5	18.8	12 27	3 23.63	+25 7.0	1.964	2.783	13.4	21.3
<b>350857</b>	2002 <i>MP</i> <sub>7</sub>		11 21.9 181°28	11°5/ 2.2 16			<b>339041</b>	2004 <i>JD</i> <sub>28</sub>		11 21.9 77°90	0°4/22.1 16		
10 18	4 34.71	+58 4.4	2.171	2.810	17.8	20.9	10 18	4 22.26	+22 18.0	1.527	2.358	16.7	21.3
10 28	4 26.00	+58 22.5	2.087	2.810	16.2	20.7	10 28	4 15.80	+22 9.4	1.477	2.383	12.5	21.1
11 7	4 13.27	+58 10.8	2.018	2.810	14.4	20.6	11 7	4 6.64	+21 52.1	1.450	2.408	7.8	20.9
11 17	3 58.00	+57 21.7	1.970	2.810	12.7	20.5	11 17	3 55.80	+21 26.9	1.448	2.432	2.7	20.6
11 27	3 42.42	+55 52.0	1.945	2.810	11.7	20.4	11 27	3 44.71	+20 56.9	1.474	2.457	2.5	20.7
12 7	3 28.73	+53 45.8	1.946	2.809	11.7	20.4	12 7	3 34.78	+20 26.4	1.528	2.481	7.3	21.0
12 17	3 18.46	+51 13.3	1.973	2.809	12.7	20.5	12 17	3 27.09	+20 0.3	1.608	2.504	11.6	21.3
12 27	3 12.31	+48 27.9	2.026	2.808	14.4	20.6	12 27	3 22.31	+19 42.5	1.711	2.528	15.1	21.6
<b>300538</b>	2007 <i>TQ</i> <sub>244</sub>		11 21.9 23°86	7°7/25.4 18			<b>75522</b>	1999 <i>XW</i> <sub>206</sub>		11 21.9 193°68	2°7/23.0 18		
10 18	4 19.88	+37 33.0	1.461	2.261	18.8	20.2	10 18	4 23.46	+27 10.4	2.024	2.826	14.2	19.5
10 28	4 15.01	+38 20.0	1.397	2.268	15.5	20.0	10 28	4 16.68	+27 35.2	1.938	2.825	11.0	19.3
11 7	4 6.68	+38 45.8	1.353	2.275	11.9	19.8	11 7	4 7.32	+27 50.7	1.876	2.822	7.4	19.1
11 17	3 55.91	+38 45.0	1.331	2.283	8.8	19.6	11 17	3 56.12	+27 54.5	1.841	2.819	3.8	18.8
11 27	3 44.43	+38 16.2	1.334	2.292	7.7	19.6	11 27	3 44.24	+27 46.6	1.836	2.814	3.2	18.8
12 7	3 34.08	+37 24.0	1.362	2.301	9.6	19.7	12 7	3 33.00	+27 29.1	1.861	2.810	6.6	19.0
12 17	3 26.35	+36 17.0	1.414	2.312	12.8	19.9	12 17	3 23.52	+27 6.5	1.913	2.804	10.4	19.2
12 27	3 22.17	+35 5.9	1.488	2.322	16.1	20.2	12 27	3 16.66	+26 43.8	1.990	2.798	13.7	19.4
<b>234683</b>	2002 <i>GF</i> <sub>85</sub>		11 21.9 120°35	1°7/21.1 18			<b>485654</b>	2011 <i>WG</i> <sub>49</sub>		11 21.9 346°87	1°0/21.5 17		
10 18	4 19.13	+16 20.0	2.009	2.836	13.4	21.2	10 18	4 13.44	+18 26.8	1.355	2.212	16.9	20.8
10 28	4 12.95	+15 58.4	1.947	2.851	10.0	21.0	10 28	4 9.92	+18 20.7	1.281	2.202	12.8	20.5
11 7	4 4.70	+15 34.1	1.908	2.866	6.2	20.8	11 7	4 3.46	+18 9.6	1.228	2.192	8.0	20.2
11 17	3 55.14	+15 9.1	1.897	2.881	2.4	20.6	11 17	3 54.88	+17 55.2	1.198	2.184	2.7	19.9
11 27	3 45.28	+14 46.3	1.916	2.895	3.0	20.6	11 27	3 45.52	+17 40.4	1.194	2.177	3.2	19.9
12 7	3 36.17	+14 28.5	1.965	2.909	6.8	20.9	12 7	3 36.91	+17 29.2	1.216	2.171	8.5	20.2
12 17	3 28.69	+14 18.4	2.041	2.922	10.3	21.1	12 17	3 30.37	+17 25.3	1.261	2.166	13.4	20.5
12 27	3 23.44	+14 17.5	2.141	2.934	13.3	21.4	12 27	3 26.84	+17 31.7	1.327	2.163	17.6	20.7
<b>313912</b>	2004 <i>PY</i> <sub>79</sub>		11 21.9 32°56	4°1/23.9 18			<b>330212</b>	2006 <i>GD</i> <sub>21</sub>		11 21.9 189°85	1°0/21.2 17		
10 18	4 17.88	+31 4.3	1.846	2.654	15.1	20.2	10 18	4 13.71	+17 24.6	2.859	3.678	10.0	22.1
10 28	4 12.64	+31 30.2	1.776	2.661	11.9	20.0	10 28	4 8.53	+17 5.8	2.776	3.677	7.5	21.9
11 7	4 4.82	+31 42.8	1.727	2.667	8.4	19.8	11 7	4 1.86	+16 44.1	2.718	3.676	4.6	21.7
11 17	3 55.24	+31 39.9	1.704	2.675	5.1	19.6	11 17	3 54.22	+16 20.9	2.690	3.674	1.7	21.5
11 27	3 45.13	+31 21.5	1.709	2.682	4.3	19.6	11 27	3 46.27	+15 58.3	2.692	3.672	2.1	21.5
12 7	3 35.81	+30 51.0	1.741	2.690	7.0	19.8	12 7	3 38.73	+15 38.3	2.725	3.669	5.1	21.7
12 17	3 28.38	+30 13.6	1.800	2.698	10.5	20.0	12 17	3 32.22	+15 23.2	2.787	3.666	7.9	21.9
12 27	3 23.62	+29 35.6	1.883	2.707	13.6	20.2	12 27	3 27.27	+15 14.5	2.875	3.663	10.4	22.1
<b>245270</b>	2005 <i>AX</i> <sub>61</sub>		11 21.9 301°90	9°4/18.2 18			<b>113071</b>	2002 <i>RK</i> <sub>62</sub>		11 21.9 70°06	3°6/20.6 18		
10 18	4 16.50	- 1 25.0	1.621	2.450	15.9	20.1	10 18	4 23.82	+13 41.4	1.353	2.195	17.8	19.8
10 28	4 11.70	- 2 18.7	1.542	2.430	13.2	19.8	10 28	4 16.83	+13 1.5	1.319	2.230	13.2	19.6
11 7	4 4.35	- 3 0.3	1.484	2.411	10.7	19.6	11 7	4 7.15	+12 21.8	1.306	2.265	8.3	19.4
11 17	3 55.13	- 3 22.8	1.450	2.391	9.4	19.5	11 17	3 55.93	+11 46.1	1.319	2.300	4.1	19.3
11 27	3 45.19	- 3 20.1	1.442	2.372	10.2	19.5	11 27	3 44.68	+11 19.2	1.359	2.334	4.9	19.4
12 7	3 35.79	- 2 49.6	1.458	2.352	12.8	19.6	12 7	3 34.82	+11 4.6	1.426	2.367	9.1	19.8
12 17	3 28.08	- 1 52.5	1.497	2.334	15.9	19.8	12 17	3 27.36	+11 4.0	1.519	2.400	13.1	20.1
12 27	3 22.95	- 0 32.5	1.556	2.315	19.0	19.9	12 27	3 22.88	+11 17.5	1.632	2.433	16.5	20.4
<b>449553</b>	2014 <i>HN</i> <sub>172</sub>		11 21.9 213°55	4°8/18.9 18			<b>375682</b>	2009 <i>HV</i> <sub>94</sub>		11 21.9 61°53	0°4/21.9 18		
10 18	4 15.66	+ 9 49.1	2.014	2.848	13.1	21.1	10 18	4 26.05	+18 39.9	1.223	2.066	19.2	20.2
10 28	4 10.46	+ 8 37.4	1.939	2.844	10.0	20.9	10 28	4 19.32	+19 23.8	1.176	2.087	14.5	20.0
11 7	4 3.25	+ 7 25.6	1.888	2.839	6.9	20.7	11 7	4 9.15	+20 4.3	1.148	2.109	9.0	19.7
11 17	3 54.69	+ 6 18.9	1.864	2.834	4.9	20.5	11 17	3 56.71	+20 39.4	1.146	2.131	3.0	19.4
11 27	3 45.72	+ 5 22.6	1.870	2.828	5.8	20.6	11 27	3 43.80	+21 8.2	1.170	2.153	3.0	19.5
12 7	3 37.34	+ 4 41.4	1.904	2.823	8.8	20.7	12 7	3 32.24	+21 32.2	1.220	2.175	8.6	19.9
12 17	3 30.41	+ 4 17.6	1.964	2.817	12.0	20.9	12 17	3 23.45	+21 54.6	1.296	2.197	13.4	20.2
12 27	3 25.58	+ 4 11.9	2.046	2.810	14.8	21.1	12 27	3 18.26	+22 18.9	1.392	2.219	17.4	20.6
<b>268894</b>	2007 <i>BG</i> <sub>40</sub>		11 21.9 155°63	3°8/24.0 18			<b>326377</b>	2001 <i>DX</i> <sub>22</sub>		11 21.9 238°77	0°6/21.5 18		
10 18	4 23.06	+32 25.6	2.119	2.905	14.2	21.2	10 18	4 15.02	+18 51.5	2.833	3.648	10.2	22.1
10 28	4 16.15	+32 30.4	2.042	2.914	11.2	21.0	10 28	4 9.64	+18 36.8	2.733	3.632	7.7	21.9
11 7	4 6.82	+32 21.0	1.988	2.922	7.9	20.8	11 7	4 2.63	+18 18.3	2.659	3.616	4.8	21.7
11 17	3 55.88	+31 55.4	1.962	2.930	4.8	20.6	11 17	3 54.51	+17 57.0	2.615	3.599	1.6	21.5
11 27	3 44.52	+31 14.7	1.964	2.937	4.0	20.6	11 27	3 45.97	+17 34.7	2.601	3.582	1.9	21.5
12 7	3 33.97	+30 22.5	1.997	2.943	6.5	20.7	12 7	3 37.76	+17 13.6	2.618	3.564	5.1	21.7
12 17	3 25.28	+29 25.0	2.058	2.948	9.7	21.0	12 17	3 30.58	+16 56.0	2.665	3.546	8.2	21.8
12 27	3 19.16	+28 28.4	2.144	2.953	12.8	21.2	12 27	3 25.02	+16 44.2	2.737	3.527	10.8	22.0
<b>395989</b>	2013 <i>BQ</i> <sub>35</sub>		11 21.9 340°67	1°5/22.7 18			<b>304</b>						

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>11930</b>	Osamu		11 21.9 280°47'	7°9/17.7	18		<b>26279</b>	1998 SP <sub>21</sub>		11 21.9 44°58'	0°1/21.9	18	
10 18	4 15.05	+ 2 32.7	1.743	2.578	14.7	17.7	10 18	4 19.76	+22 1.3	1.127	1.982	19.7	18.3
10 28	4 10.35	+ 1 13.9	1.671	2.568	11.9	17.5	10 28	4 14.61	+21 36.7	1.087	2.005	14.7	18.1
11 7	4 3.36	+ 0 1.6	1.622	2.557	9.2	17.3	11 7	4 6.16	+21 1.5	1.066	2.029	9.1	17.9
11 17	3 54.80	- 0 57.1	1.598	2.547	7.9	17.2	11 17	3 55.71	+20 18.2	1.068	2.054	3.0	17.6
11 27	3 45.71	- 1 35.6	1.601	2.536	9.0	17.2	11 27	3 45.01	+19 32.0	1.096	2.079	3.1	17.7
12 7	3 37.23	- 1 50.0	1.629	2.525	11.6	17.4	12 7	3 35.79	+18 49.5	1.149	2.105	8.7	18.1
12 17	3 30.34	- 1 39.6	1.681	2.515	14.6	17.5	12 17	3 29.26	+18 16.6	1.225	2.131	13.6	18.5
12 27	3 25.78	- 1 6.2	1.753	2.505	17.4	17.7	12 27	3 26.11	+17 57.2	1.322	2.158	17.6	18.8
<b>410100</b>	2007 EB <sub>120</sub>		11 21.9 89°44'	1°3/22.6	18		<b>301003</b>	2008 GU <sub>98</sub>		11 21.9 331°65'	5°4/23.3	18	R
10 18	4 18.15	+23 59.2	2.413	3.222	12.0	21.1	10 18	4 21.17	+29 55.6	1.588	2.404	16.8	19.7
10 28	4 12.05	+24 13.9	2.350	3.242	9.1	20.9	10 28	4 15.93	+31 8.9	1.506	2.394	13.5	19.5
11 7	4 4.10	+24 22.1	2.311	3.263	5.8	20.7	11 7	4 7.41	+32 12.6	1.444	2.384	9.7	19.2
11 17	3 54.98	+24 23.3	2.301	3.283	2.4	20.6	11 17	3 56.33	+33 1.0	1.407	2.375	6.3	19.0
11 27	3 45.57	+24 18.5	2.321	3.303	2.0	20.6	11 27	3 44.12	+33 30.3	1.397	2.367	5.7	19.0
12 7	3 36.81	+24 9.6	2.372	3.322	5.3	20.8	12 7	3 32.50	+33 41.0	1.414	2.359	8.7	19.1
12 17	3 29.45	+23 59.3	2.451	3.342	8.4	21.0	12 17	3 23.06	+33 37.2	1.456	2.352	12.6	19.3
12 27	3 24.09	+23 50.7	2.556	3.361	11.1	21.3	12 27	3 16.93	+33 26.0	1.520	2.346	16.3	19.5
<b>339068</b>	2004 PY <sub>95</sub>		11 21.9 75°40'	2°7/20.8	18		<b>517259</b>	2014 DV <sub>137</sub>		11 21.9 204°23'	0°9/22.4	18	
10 18	4 19.89	+15 17.7	1.533	2.374	16.1	20.9	10 18	4 19.70	+23 31.6	2.109	2.923	13.3	22.5
10 28	4 13.94	+14 43.4	1.484	2.396	12.0	20.7	10 28	4 13.68	+23 31.1	2.023	2.919	10.1	22.3
11 7	4 5.47	+14 7.0	1.457	2.417	7.5	20.5	11 7	4 5.38	+23 22.9	1.961	2.914	6.4	22.1
11 17	3 55.44	+13 31.8	1.456	2.438	3.3	20.3	11 17	3 55.51	+23 7.0	1.926	2.909	2.5	21.8
11 27	3 45.17	+13 2.0	1.483	2.460	4.1	20.4	11 27	3 45.09	+22 44.6	1.921	2.903	2.2	21.8
12 7	3 35.95	+12 41.5	1.537	2.481	8.3	20.7	12 7	3 35.25	+22 18.8	1.946	2.897	6.2	22.0
12 17	3 28.80	+12 32.8	1.617	2.502	12.3	21.0	12 17	3 26.98	+21 53.3	1.999	2.890	9.9	22.3
12 27	3 24.34	+12 37.2	1.719	2.522	15.6	21.2	12 27	3 21.02	+21 32.4	2.076	2.883	13.2	22.5
<b>316301</b>	2010 RY <sub>59</sub>		11 21.9 17°11'	2°9/23.3	18		<b>406233</b>	2007 BO <sub>63</sub>		11 21.9 233°87'	2°1/22.9	17	
10 18	4 17.24	+28 13.0	1.811	2.628	15.0	21.2	10 18	4 17.25	+26 39.8	2.149	2.961	13.2	21.4
10 28	4 12.18	+28 24.9	1.736	2.630	11.6	21.0	10 28	4 11.85	+26 47.8	2.066	2.958	10.1	21.2
11 7	4 4.57	+28 25.1	1.684	2.633	7.8	20.8	11 7	4 4.25	+26 46.6	2.006	2.955	6.7	21.0
11 17	3 55.22	+28 12.2	1.657	2.635	4.1	20.6	11 17	3 55.14	+26 35.3	1.973	2.953	3.2	20.7
11 27	3 45.32	+27 47.2	1.659	2.638	3.4	20.5	11 27	3 45.51	+26 14.9	1.970	2.950	2.6	20.7
12 7	3 36.17	+27 13.7	1.688	2.641	6.8	20.8	12 7	3 36.45	+25 48.1	1.995	2.947	6.0	20.9
12 17	3 28.86	+26 36.8	1.744	2.644	10.6	21.0	12 17	3 28.93	+25 19.1	2.049	2.944	9.5	21.1
12 27	3 24.18	+26 2.1	1.823	2.648	14.0	21.2	12 27	3 23.66	+24 52.1	2.127	2.941	12.6	21.3
<b>172333</b>	2002 VH <sub>23</sub>		11 21.9 12°18'	1°0/22.4	18		<b>163800</b>	Richardhorton		11 21.9 15°10'	8°8/27.0	18	
10 18	4 15.66	+24 26.5	1.580	2.417	15.9	19.6	10 18	4 17.18	+41 33.5	1.274	2.074	21.0	18.6
10 28	4 11.15	+24 8.3	1.511	2.419	12.1	19.3	10 28	4 13.42	+41 48.8	1.213	2.080	17.6	18.4
11 7	4 3.98	+23 39.0	1.463	2.421	7.7	19.1	11 7	4 5.86	+41 34.0	1.170	2.087	13.8	18.2
11 17	3 55.03	+22 59.2	1.440	2.424	2.9	18.8	11 17	3 55.73	+40 44.1	1.146	2.095	10.4	18.1
11 27	3 45.55	+22 12.4	1.444	2.427	2.5	18.8	11 27	3 45.00	+39 19.9	1.146	2.104	8.8	18.0
12 7	3 36.93	+21 23.9	1.476	2.431	7.2	19.1	12 7	3 35.71	+37 29.7	1.171	2.114	10.3	18.1
12 17	3 30.28	+20 39.4	1.533	2.436	11.6	19.4	12 17	3 29.37	+35 26.8	1.219	2.126	13.6	18.4
12 27	3 26.36	+20 4.0	1.613	2.441	15.4	19.6	12 27	3 26.80	+33 25.2	1.289	2.139	17.1	18.6
<b>440806</b>	2006 QF <sub>56</sub>		11 21.9 14°16'	6°8/24.6	17		<b>200554</b>	2001 KS <sub>20</sub>		11 21.9 194°61'	5°2/19.7	18	
10 18	4 14.90	+33 27.3	1.149	1.987	20.5	20.4	10 18	4 18.47	+ 5 0.7	2.156	2.976	12.8	20.4
10 28	4 11.69	+34 15.9	1.097	1.996	16.5	20.2	10 28	4 12.47	+ 4 36.7	2.081	2.974	10.0	20.2
11 7	4 4.80	+34 43.4	1.064	2.006	12.1	20.0	11 7	4 4.49	+ 4 18.7	2.030	2.972	7.2	20.0
11 17	3 55.37	+34 45.2	1.051	2.018	8.1	19.8	11 17	3 55.19	+ 4 10.1	2.006	2.969	5.3	19.9
11 27	3 45.24	+34 20.8	1.062	2.032	7.0	19.8	11 27	3 45.47	+ 4 13.8	2.012	2.966	5.9	19.9
12 7	3 36.40	+33 35.8	1.096	2.048	9.7	20.0	12 7	3 36.29	+ 4 31.2	2.047	2.962	8.5	20.1
12 17	3 30.37	+32 39.7	1.153	2.066	13.7	20.3	12 17	3 28.51	+ 5 2.4	2.108	2.958	11.4	20.3
12 27	3 28.05	+31 42.7	1.230	2.085	17.5	20.6	12 27	3 22.76	+ 5 46.4	2.193	2.954	14.1	20.5
<b>274978</b>	2009 SH <sub>360</sub>		11 21.9 31°88'	2°7/20.7	18		<b>69690</b>	1998 HL <sub>30</sub>		11 21.9 299°90'	0°3/21.8	18	
10 18	4 14.80	+13 7.0	2.012	2.848	13.0	20.5	10 18	4 19.86	+19 6.0	1.342	2.189	17.6	18.4
10 28	4 9.84	+12 48.7	1.943	2.852	9.8	20.3	10 28	4 15.00	+19 15.7	1.261	2.176	13.4	18.1
11 7	4 2.89	+12 30.7	1.899	2.857	6.2	20.1	11 7	4 6.83	+19 21.0	1.201	2.163	8.5	17.8
11 17	3 54.62	+12 15.1	1.881	2.862	3.1	19.9	11 17	3 56.14	+19 21.8	1.165	2.151	2.9	17.4
11 27	3 45.97	+12 4.8	1.892	2.867	3.7	19.9	11 27	3 44.43	+19 19.7	1.156	2.139	3.1	17.4
12 7	3 37.94	+12 2.0	1.931	2.872	7.1	20.1	12 7	3 33.42	+19 17.8	1.172	2.127	8.8	17.7
12 17	3 31.36	+12 8.4	1.998	2.878	10.5	20.4	12 17	3 24.68	+19 19.8	1.213	2.115	14.1	17.9
12 27	3 26.87	+12 24.7	2.087	2.883	13.5	20.6	12 27	3 19.31	+19 29.7	1.274	2.104	18.5	18.2
<b>357488</b>	2004 JR <sub>47</sub>		11 21.9 173°26'	0°8/21.5	18		<b>192949</b>	2000 BP <sub>1</sub>		11 21.9 200°71'	0°0/21.9	17	
10 18	4 16.97	+18 16.0	2.113	2.940	12.8	21.5	10 18	4 14.86	+21 11.1	2.527	3.345	11.2	20.8
10 28	4 11.48	+18 8.1	2.036	2.941	9.6	21.3	10 28	4 9.65	+20 59.6	2.443	3.343	8.5	20.6
11 7	4 3.92	+17 56.6	1.983	2.941	6.0	21.1	11 7	4 2.70	+20 42.7	2.384	3.341	5.3	20.4
11 17	3 54.98	+17 42.5	1.957	2.942	2.0	20.8	11 17	3 54.58	+20 21.3	2.354	3.339	1.8	20.2
11 27	3 45.60	+17 27.9	1.961	2.942	2.4	20.9	11 27	3 46.10	+19 57.3	2.353	3.336	1.8	20.2
12 7	3 36.80	+17 15.4	1.994	2.943	6.3	21.1	12 7	3 38.08	+19 33.0	2.383	3.333	5.3	20.4
12 17	3 29.46	+17 7.5	2.055	2.943	9.9	21.4	12 17	3 31.28	+19 11.5	2.442	3.330	8.5	20.6
12 27	3 24.26	+17 6.6	2.141	2.943	13.0	21.6	12 27	3 26.27	+18 55.2	2.526	3.327	11.3	20.8
<b>436915</b>	2012 TR <sub>93</sub>		11 21.9 88°09'	0°9/22.3	18		<b>392979</b>	2012 XW <sub>46</sub>		11 21.9 9°51'	0°6/21.6	18	
10 18	4 21.62	+22 32											



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11 21.9

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>96956</b>	1999 <i>TS</i> <sub>183</sub>		11 21.9 102°38	6°3/25.9	18		<b>178953</b>	2001 <i>QB</i> <sub>163</sub>		11 21.9 32°04	2°0/20.9	18	
10 18	4 22.88	+39 31.0	1.865	2.634	16.4	19.6	10 18	4 15.23	+17 27.1	1.738	2.579	14.5	19.6
10 28	4 16.46	+39 35.8	1.796	2.647	13.5	19.5	10 28	4 10.48	+16 45.2	1.670	2.583	10.9	19.4
11 7	4 7.20	+39 19.2	1.747	2.660	10.3	19.3	11 7	4 3.44	+15 58.3	1.626	2.587	6.7	19.1
11 17	3 56.11	+38 38.2	1.723	2.672	7.4	19.2	11 17	3 54.88	+15 9.6	1.608	2.592	2.7	18.9
11 27	3 44.63	+37 33.5	1.726	2.684	6.3	19.1	11 27	3 45.92	+14 23.6	1.618	2.597	3.5	19.0
12 7	3 34.27	+36 10.7	1.758	2.696	7.9	19.2	12 7	3 37.72	+13 44.8	1.656	2.602	7.6	19.2
12 17	3 26.18	+34 38.4	1.816	2.707	10.8	19.4	12 17	3 31.22	+13 17.0	1.720	2.608	11.5	19.5
12 27	3 21.09	+33 5.8	1.899	2.719	13.7	19.7	12 27	3 27.13	+13 2.5	1.806	2.613	14.9	19.7
<b>207156</b>	2005 <i>CD</i> <sub>27</sub>		11 21.9 312°19	0°5/22.2	18		<b>139652</b>	2001 <i>QT</i> <sub>176</sub>		11 21.9 27°06	3°2/20.4	18	
10 18	4 16.41	+22 33.0	1.580	2.419	15.8	20.4	10 18	4 15.03	+14 2.5	1.692	2.537	14.7	20.1
10 28	4 11.94	+22 23.4	1.495	2.405	12.1	20.1	10 28	4 10.36	+13 20.4	1.627	2.541	11.0	19.9
11 7	4 4.67	+22 4.7	1.432	2.392	7.6	19.8	11 7	4 3.38	+12 36.7	1.586	2.545	7.0	19.6
11 17	3 55.37	+21 37.2	1.394	2.379	2.7	19.5	11 17	3 54.87	+11 55.0	1.570	2.550	3.6	19.5
11 27	3 45.28	+21 3.6	1.384	2.367	2.6	19.5	11 27	3 45.96	+11 20.0	1.581	2.556	4.4	19.5
12 7	3 35.86	+20 28.4	1.400	2.355	7.6	19.7	12 7	3 37.80	+10 55.5	1.621	2.561	8.2	19.8
12 17	3 28.36	+19 56.7	1.442	2.343	12.3	20.0	12 17	3 31.36	+10 44.2	1.685	2.567	12.0	20.0
12 27	3 23.69	+19 33.5	1.505	2.332	16.3	20.2	12 27	3 27.32	+10 47.3	1.772	2.574	15.3	20.2
<b>360685</b>	2004 <i>RS</i> <sub>317</sub>		11 21.9 114°61	1°6/20.9	18		<b>84827</b>	2003 <i>AC</i>		11 21.9 343°23	14°1/14.9	18	
10 18	4 14.67	+17 46.6	2.187	3.017	12.3	20.9	10 18	4 14.51	-14 44.3	1.685	2.474	17.2	18.5
10 28	4 9.61	+17 1.0	2.115	3.022	9.2	20.7	10 28	4 9.99	-16 12.4	1.636	2.468	15.5	18.4
11 7	4 2.69	+16 10.8	2.068	3.027	5.7	20.5	11 7	4 3.17	-17 17.0	1.606	2.462	14.4	18.3
11 17	3 54.58	+15 18.6	2.048	3.032	2.3	20.3	11 17	3 54.81	-17 49.8	1.597	2.457	14.1	18.3
11 27	3 46.17	+14 28.2	2.059	3.037	2.9	20.4	11 27	3 46.02	-17 44.9	1.609	2.453	14.8	18.3
12 7	3 38.36	+13 43.6	2.099	3.042	6.4	20.6	12 7	3 37.95	-17 1.8	1.642	2.449	16.2	18.4
12 17	3 31.94	+13 8.2	2.166	3.047	9.8	20.8	12 17	3 31.58	-15 44.1	1.694	2.446	18.0	18.5
12 27	3 27.48	+12 44.3	2.257	3.051	12.7	21.0	12 27	3 27.59	-13 58.1	1.763	2.443	19.7	18.7
<b>255052</b>	2005 <i>TS</i> <sub>139</sub>		11 21.9 45°46	1°7/21.2	18		<b>135760</b>	2002 <i>RY</i> <sub>18</sub>		11 21.9 270°66	14°5/27.9	17	
10 18	4 15.74	+16 47.9	1.839	2.677	14.0	20.5	10 18	4 38.14	+57 23.5	2.042	2.687	18.7	19.6
10 28	4 10.73	+16 26.6	1.774	2.684	10.5	20.3	10 28	4 30.86	+59 35.5	1.963	2.678	17.3	19.4
11 7	4 3.53	+16 2.2	1.731	2.692	6.5	20.0	11 7	4 18.06	+61 24.9	1.902	2.670	16.0	19.3
11 17	3 54.89	+15 36.8	1.716	2.700	2.5	19.8	11 17	4 0.37	+62 39.6	1.860	2.662	15.0	19.2
11 27	3 45.86	+15 13.5	1.728	2.708	3.1	19.9	11 27	3 39.99	+63 10.2	1.840	2.653	14.5	19.2
12 7	3 37.56	+14 55.5	1.769	2.717	7.1	20.1	12 7	3 20.24	+62 54.9	1.840	2.645	14.8	19.2
12 17	3 30.90	+14 45.6	1.837	2.725	10.9	20.4	12 17	3 4.27	+62 0.4	1.862	2.636	15.8	19.2
12 27	3 26.53	+14 45.7	1.927	2.734	14.1	20.6	12 27	2 54.02	+60 39.7	1.902	2.628	17.1	19.3
<b>339715</b>	2005 <i>SS</i> <sub>4</sub>		11 21.9 265°33	7°1/23.1	14 C		<b>322216</b>	2011 <i>AQ</i> <sub>52</sub>		11 21.9 70°06	0°1/22.0	18	
10 18	4 53.81	+32 48.4	1.540	2.293	20.0	22.8	10 18	4 15.43	+21 12.8	2.227	3.050	12.4	20.8
10 28	4 43.14	+33 55.0	1.397	2.247	16.7	22.5	10 28	4 10.29	+21 6.6	2.150	3.052	9.3	20.6
11 7	4 26.34	+34 51.6	1.274	2.196	12.5	22.1	11 7	4 3.20	+20 54.8	2.097	3.054	5.8	20.4
11 17	4 3.48	+35 24.0	1.179	2.141	8.2	21.7	11 17	3 54.81	+20 38.2	2.071	3.056	2.0	20.1
11 27	3 36.28	+35 17.0	1.116	2.082	7.6	21.5	11 27	3 46.02	+20 18.5	2.075	3.058	2.0	20.1
12 7	3 8.12	+34 24.4	1.086	2.018	12.4	21.5	12 7	3 37.77	+19 58.4	2.108	3.060	5.8	20.4
12 17	2 42.81	+32 55.4	1.088	1.949	18.8	21.7	12 17	3 30.92	+19 40.9	2.169	3.062	9.2	20.6
12 27	2 23.11	+31 11.4	1.113	1.874	24.9	21.8	12 27	3 26.09	+19 28.9	2.255	3.063	12.2	20.8
<b>339052</b>	2004 <i>NH</i>		11 21.9 81°10	2°2/21.1	18		<b>175813</b>	1999 <i>RU</i> <sub>207</sub>		11 21.9 77°40	2°6/23.1	18	
10 18	4 21.57	+15 12.9	1.568	2.405	16.0	20.8	10 18	4 23.28	+28 8.3	1.380	2.206	18.4	19.8
10 28	4 15.21	+14 59.9	1.517	2.427	12.0	20.6	10 28	4 17.01	+27 55.9	1.328	2.227	14.1	19.6
11 7	4 6.30	+14 45.6	1.489	2.449	7.4	20.3	11 7	4 7.62	+27 27.4	1.297	2.249	9.2	19.3
11 17	3 55.80	+14 32.0	1.487	2.471	3.0	20.1	11 17	3 56.29	+26 42.9	1.290	2.270	4.3	19.1
11 27	3 45.01	+14 21.9	1.513	2.492	3.7	20.2	11 27	3 44.65	+25 45.7	1.310	2.292	3.3	19.1
12 7	3 35.26	+14 18.1	1.567	2.514	7.9	20.5	12 7	3 34.36	+24 42.9	1.358	2.313	7.8	19.4
12 17	3 27.59	+14 22.9	1.648	2.534	12.0	20.8	12 17	3 26.65	+23 42.6	1.431	2.334	12.3	19.8
12 27	3 22.66	+14 37.4	1.750	2.555	15.4	21.1	12 27	3 22.20	+22 51.4	1.526	2.354	16.1	20.0
<b>268236</b>	2005 <i>EA</i> <sub>228</sub>		11 21.9 87°20	4°5/24.8	18		<b>8014</b>	1990 <i>MF</i>		11 21.9 41°19	2°0/21.5	15	
10 18	4 17.56	+35 11.1	2.398	3.177	12.9	20.7	10 18	5 2.95	+21 57.8	0.309	1.211	40.4	18.2
10 28	4 11.95	+35 27.8	2.323	3.185	10.4	20.5	10 28	4 43.11	+20 31.7	0.334	1.276	28.2	18.1
11 7	4 4.24	+35 30.8	2.269	3.192	7.7	20.3	11 7	4 20.76	+19 3.3	0.371	1.342	16.1	18.1
11 17	3 55.13	+35 18.2	2.243	3.200	5.3	20.2	11 17	3 59.52	+17 41.0	0.422	1.408	5.0	18.0
11 27	3 45.62	+34 50.3	2.244	3.208	4.5	20.2	11 27	3 42.60	+16 36.6	0.492	1.475	5.5	18.4
12 7	3 36.76	+34 9.8	2.275	3.216	6.2	20.3	12 7	3 31.45	+15 57.0	0.579	1.541	13.1	19.2
12 17	3 29.46	+33 21.5	2.334	3.223	8.8	20.5	12 17	3 26.03	+15 42.3	0.684	1.605	19.1	19.9
12 27	3 24.36	+32 30.9	2.418	3.231	11.4	20.7	12 27	3 25.66	+15 49.1	0.804	1.668	23.4	20.4
<b>414670</b>	2009 <i>WM</i> <sub>70</sub>		11 21.9 220°46	0°5/21.6	17		<b>191233</b>	2002 <i>SX</i> <sub>45</sub>		11 21.9 53°49	0°9/21.5	16	
10 18	4 14.07	+21 18.5	2.734	3.550	10.5	21.2	10 18	4 17.07	+18 58.2	2.000	2.829	13.4	20.1
10 28	4 8.92	+20 33.6	2.643	3.543	7.9	21.0	10 28	4 11.31	+18 34.8	1.957	2.863	9.9	20.0
11 7	4 2.20	+19 42.0	2.578	3.535	4.9	20.8	11 7	4 3.66	+18 7.1	1.938	2.897	6.0	19.8
11 17	3 54.43	+18 45.5	2.542	3.527	1.6	20.6	11 17	3 54.90	+17 37.1	1.946	2.931	2.1	19.6
11 27	3 46.35	+17 47.0	2.538	3.519	1.9	20.6	11 27	3 46.04	+17 7.6	1.984	2.966	2.4	19.7
12 7	3 38.71	+16 50.2	2.564	3.511	5.2	20.8	12 7	3 38.03	+16 41.9	2.051	3.000	6.2	20.0
12 17	3 32.19	+15 58.8	2.620	3.502	8.3	21.0	12 17	3 31.64	+16 22.7	2.146	3.034	9.5	20.3
12 27	3 27.33	+15 15.7	2.701	3.493	10.9	21.2	12 27	3 27.38	+16 12.0	2.265	3.068	12.4	20.5
<b>185324</b>	2006 <i>VE</i> <sub>11</sub>		11 21.9 341°71	0°0/21.9	18		<b>236662</b>	2006 <i>LJ</i>					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>289163</b>	2004 VB <sub>37</sub>		11 21.9 342°78	0°4/22.2	18		<b>485996</b>	2012 KK <sub>47</sub>		11 21.9 208°79	8°7/14.9	18	
10 18	4 14.51	+22 16.9	1.860	2.693	14.0	21.2	10 18	4 13.47	-13 32.8	3.048	3.805	10.9	22.2
10 28	4 10.05	+22 8.9	1.780	2.687	10.6	21.0	10 28	4 8.29	-14 35.2	2.986	3.798	9.7	22.1
11 7	4 3.28	+21 53.6	1.723	2.681	6.7	20.7	11 7	4 1.75	-15 24.2	2.948	3.792	8.9	22.0
11 17	3 54.90	+21 31.4	1.691	2.676	2.4	20.4	11 17	3 54.33	-15 55.7	2.935	3.784	8.7	22.0
11 27	3 45.97	+21 4.6	1.689	2.672	2.2	20.4	11 27	3 46.65	-16 6.3	2.948	3.777	9.2	22.0
12 7	3 37.66	+20 36.8	1.714	2.668	6.6	20.7	12 7	3 39.34	-15 55.2	2.985	3.768	10.2	22.1
12 17	3 30.96	+20 11.8	1.765	2.664	10.6	20.9	12 17	3 32.99	-15 23.1	3.046	3.760	11.5	22.2
12 27	3 26.63	+19 53.6	1.841	2.661	14.1	21.2	12 27	3 28.06	-14 32.5	3.126	3.751	12.7	22.3
<b>59278</b>	1999 CT <sub>45</sub>		11 21.9 324°33	1°4/22.4	18		<b>427878</b>	2005 SH <sub>115</sub>		11 21.9 107°10	0°1/22.0	18	
10 18	4 17.87	+23 28.6	1.391	2.233	17.4	18.7	10 18	4 21.82	+21 51.3	1.688	2.514	15.5	22.0
10 28	4 13.43	+23 37.0	1.312	2.223	13.3	18.4	10 28	4 15.44	+21 34.9	1.628	2.532	11.7	21.8
11 7	4 5.81	+23 36.0	1.255	2.214	8.6	18.1	11 7	4 6.51	+21 10.4	1.592	2.549	7.3	21.6
11 17	3 55.85	+23 24.7	1.221	2.205	3.4	17.8	11 17	3 55.96	+20 39.0	1.581	2.566	2.5	21.3
11 27	3 44.99	+23 4.5	1.213	2.196	2.9	17.7	11 27	3 45.09	+20 3.5	1.600	2.583	2.4	21.3
12 7	3 34.90	+22 39.6	1.232	2.188	8.2	18.0	12 7	3 35.19	+19 28.6	1.647	2.599	7.0	21.7
12 17	3 27.03	+22 15.4	1.275	2.181	13.2	18.3	12 17	3 27.32	+18 58.6	1.721	2.614	11.2	22.0
12 27	3 22.41	+21 57.7	1.339	2.174	17.5	18.5	12 27	3 22.15	+18 37.5	1.818	2.629	14.6	22.2
<b>330328</b>	2006 UJ <sub>180</sub>		11 21.9 26°56	3°2/21.3	18		<b>480398</b>	2015 KG <sub>59</sub>		11 21.9 76°17	3°6/20.7	18	
10 18	4 19.35	+12 40.1	0.993	1.862	20.6	19.4	10 18	4 20.29	+11 50.8	1.607	2.445	15.6	20.3
10 28	4 14.80	+12 54.2	0.949	1.874	15.6	19.1	10 28	4 14.21	+11 28.4	1.557	2.466	11.8	20.1
11 7	4 6.64	+13 12.2	0.922	1.887	9.8	18.8	11 7	4 5.70	+11 7.8	1.530	2.487	7.6	19.9
11 17	3 56.07	+13 35.7	0.918	1.902	4.3	18.6	11 17	3 55.68	+10 52.0	1.528	2.507	4.0	19.8
11 27	3 44.92	+14 6.2	0.938	1.918	4.9	18.7	11 27	3 45.40	+10 44.1	1.555	2.528	4.7	19.9
12 7	3 35.14	+14 44.4	0.981	1.935	10.3	19.0	12 7	3 36.08	+10 46.6	1.610	2.549	8.4	20.1
12 17	3 28.20	+15 30.6	1.046	1.953	15.4	19.4	12 17	3 28.73	+11 0.5	1.690	2.569	12.2	20.4
12 27	3 24.93	+16 24.5	1.131	1.972	19.6	19.7	12 27	3 23.98	+11 25.9	1.792	2.589	15.4	20.7
<b>46689</b>	Hakuryuko		11 21.9 254°36	4°3/20.3	18		<b>178004</b>	2006 QK <sub>127</sub>		11 21.9 7°30	2°4/22.5	18	
10 18	4 18.88	+11 45.0	1.533	2.376	16.0	18.7	10 18	4 15.34	+21 47.6	1.090	1.954	19.6	18.7
10 28	4 13.64	+11 7.3	1.458	2.369	12.2	18.4	10 28	4 12.02	+22 51.8	1.034	1.956	15.0	18.5
11 7	4 5.66	+10 29.7	1.404	2.362	8.0	18.2	11 7	4 5.13	+23 50.9	0.997	1.960	9.7	18.2
11 17	3 55.75	+9 56.4	1.376	2.354	4.6	18.0	11 17	3 55.67	+24 41.2	0.983	1.966	4.2	17.9
11 27	3 45.16	+9 32.4	1.375	2.347	5.5	18.0	11 27	3 45.33	+25 20.4	0.992	1.975	3.7	17.9
12 7	3 35.28	+9 21.6	1.401	2.339	9.6	18.2	12 7	3 36.05	+25 49.3	1.026	1.985	9.0	18.2
12 17	3 27.34	+9 26.3	1.452	2.331	13.8	18.4	12 17	3 29.43	+26 11.4	1.082	1.998	14.0	18.6
12 27	3 22.18	+9 47.1	1.523	2.323	17.5	18.7	12 27	3 26.47	+26 31.6	1.157	2.012	18.3	18.9
<b>358681</b>	2007 YG <sub>24</sub>		11 21.9 337°38	1°4/21.4	18		<b>449600</b>	2014 JG <sub>48</sub>		11 21.9 50°86	3°2/20.6	18	
10 18	4 16.98	+16 53.0	1.678	2.518	15.0	20.7	10 18	4 16.96	+12 16.3	1.805	2.642	14.2	21.0
10 28	4 12.07	+16 50.1	1.602	2.514	11.3	20.4	10 28	4 11.73	+11 55.1	1.737	2.646	10.7	20.8
11 7	4 4.62	+16 44.7	1.548	2.509	7.0	20.2	11 7	4 4.24	+11 34.7	1.691	2.649	6.9	20.6
11 17	3 55.39	+16 38.0	1.521	2.505	2.6	19.9	11 17	3 55.24	+11 17.9	1.673	2.652	3.6	20.4
11 27	3 45.53	+16 32.3	1.521	2.502	3.0	19.9	11 27	3 45.80	+11 7.9	1.682	2.656	4.3	20.4
12 7	3 36.33	+16 30.3	1.548	2.498	7.6	20.2	12 7	3 37.04	+11 7.3	1.720	2.659	7.9	20.7
12 17	3 28.91	+16 34.6	1.602	2.496	11.8	20.4	12 17	3 29.92	+11 17.4	1.783	2.663	11.6	20.9
12 27	3 24.08	+16 47.2	1.678	2.493	15.5	20.7	12 27	3 25.16	+11 39.0	1.870	2.667	14.8	21.1
<b>222938</b>	2002 OL <sub>9</sub>		11 21.9 27°98	1°6/21.3	18		<b>154441</b>	2003 BV <sub>80</sub>		11 21.9 211°96	2°4/20.9	18	
10 18	4 15.18	+20 18.0	0.883	1.762	21.7	19.1	10 18	4 18.90	+15 36.7	1.772	2.606	14.6	20.7
10 28	4 11.77	+19 29.7	0.850	1.781	16.1	18.9	10 28	4 13.34	+15 6.6	1.694	2.602	11.0	20.5
11 7	4 4.69	+18 31.3	0.834	1.802	9.9	18.6	11 7	4 5.33	+14 33.3	1.639	2.598	6.9	20.3
11 17	3 55.36	+17 28.3	0.839	1.825	3.4	18.4	11 17	3 55.65	+13 59.6	1.611	2.594	3.0	20.0
11 27	3 45.75	+16 28.8	0.867	1.849	4.1	18.5	11 27	3 45.40	+13 29.2	1.612	2.589	3.8	20.1
12 7	3 37.76	+15 41.2	0.917	1.875	10.1	18.9	12 7	3 35.82	+13 5.9	1.640	2.584	7.9	20.3
12 17	3 32.69	+15 10.7	0.989	1.902	15.4	19.3	12 17	3 27.97	+12 53.0	1.696	2.578	11.9	20.5
12 27	3 31.20	+14 59.6	1.079	1.930	19.7	19.7	12 27	3 22.63	+12 52.5	1.773	2.573	15.4	20.7
<b>141847</b>	2002 OG <sub>26</sub>		11 21.9 69°06	3°6/23.2	18		<b>407565</b>	2010 XG <sub>86</sub>		11 21.9 344°66	2°5/20.9	18	
10 18	4 24.27	+27 12.5	1.360	2.188	18.5	19.5	10 18	4 16.60	+12 46.8	2.035	2.867	13.0	20.0
10 28	4 18.10	+27 52.1	1.304	2.203	14.3	19.3	10 28	4 11.31	+12 43.0	1.959	2.865	9.9	19.8
11 7	4 8.56	+28 19.2	1.268	2.218	9.6	19.1	11 7	4 3.94	+12 40.3	1.907	2.864	6.3	19.6
11 17	3 56.72	+28 30.5	1.256	2.234	5.0	18.9	11 17	3 55.16	+12 40.3	1.882	2.863	3.0	19.4
11 27	3 44.27	+28 25.6	1.270	2.249	4.2	18.9	11 27	3 45.90	+12 45.1	1.886	2.862	3.6	19.4
12 7	3 33.02	+28 8.1	1.312	2.265	8.3	19.1	12 7	3 37.19	+12 56.3	1.919	2.861	7.0	19.6
12 17	3 24.39	+27 44.6	1.378	2.280	12.7	19.4	12 17	3 29.94	+13 15.1	1.979	2.861	10.6	19.8
12 27	3 19.25	+27 22.0	1.466	2.296	16.5	19.7	12 27	3 24.82	+13 42.2	2.063	2.860	13.6	20.0
<b>305062</b>	2007 UA <sub>83</sub>		11 21.9 255°06	2°1/20.6	18		<b>180901</b>	2005 JL <sub>167</sub>		11 21.9 135°74	2°0/21.1	18	
10 18	4 15.99	+18 5.8	1.934	2.767	13.6	20.8	10 18	4 21.75	+15 59.5	1.727	2.557	15.1	20.8
10 28	4 10.97	+17 2.2	1.849	2.758	10.2	20.6	10 28	4 15.35	+15 39.0	1.662	2.568	11.3	20.6
11 7	4 3.77	+15 51.1	1.788	2.748	6.4	20.3	11 7	4 6.49	+15 15.7	1.621	2.579	7.1	20.3
11 17	3 55.07	+14 36.2	1.755	2.738	2.7	20.1	11 17	3 56.00	+14 52.0	1.606	2.590	2.9	20.1
11 27	3 45.88	+13 22.8	1.751	2.728	3.6	20.1	11 27	3 45.11	+14 30.8	1.620	2.599	3.5	20.2
12 7	3 37.31	+12 16.8	1.776	2.718	7.5	20.4	12 7	3 35.07	+14 15.6	1.663	2.608	7.7	20.4
12 17	3 30.29	+11 23.1	1.829	2.708	11.4	20.6	12 17	3 26.93	+14 9.1	1.733	2.617	11.7	20.7
12 27	3 25.52	+10 45.0	1.904	2.698	14.7	20.8	12 27	3 21.39	+14 13.2	1.826	2.625	15.1	20.9
<b>267618</b>	2002 RA <sub>193</sub>		11 21.9 346°33	4°1/24.2	17		<b>351159</b>	2003 YF <sub>167</sub>		11 21.9 198°49	4°7/24.9	17	
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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>449717</b>	2014 <i>MG</i> <sub>51</sub>		11 21.9 319°76	3°5/24.4	17		<b>182310</b>	2001 <i>OO</i> <sub>43</sub>		11 21.9 139°08	15°8/29.3	17	
10 18	4 19.47	+34 13.4	1.796	2.593	15.9	20.6	10 18	4 37.18	+51 45.3	1.276	2.007	24.5	20.0
10 28	4 13.91	+33 23.9	1.712	2.591	12.6	20.4	10 28	4 30.56	+53 34.2	1.216	2.012	21.9	19.8
11 7	4 5.69	+32 12.6	1.651	2.590	8.8	20.2	11 7	4 17.82	+54 50.6	1.170	2.018	19.3	19.6
11 17	3 55.75	+30 39.6	1.615	2.588	5.0	19.9	11 17	4 0.24	+55 19.5	1.142	2.023	17.0	19.5
11 27	3 45.40	+28 49.0	1.609	2.586	3.7	19.8	11 27	3 40.92	+54 51.1	1.134	2.027	15.9	19.5
12 7	3 36.03	+26 48.9	1.631	2.585	6.9	20.0	12 7	3 23.67	+53 28.5	1.146	2.031	16.3	19.5
12 17	3 28.70	+24 49.4	1.682	2.583	10.9	20.3	12 17	3 11.35	+51 26.5	1.180	2.035	18.1	19.6
12 27	3 24.15	+22 59.7	1.759	2.582	14.5	20.5	12 27	3 5.20	+49 5.5	1.232	2.038	20.5	19.8
<b>153954</b>	2002 <i>AL</i> <sub>9</sub>		11 21.9 141°60	11°9/28.5	18		<b>291609</b>	2006 <i>GL</i> <sub>42</sub>		11 21.9 156°95	5°4/19.3	18	
10 18	4 31.57	+47 27.1	1.303	2.058	22.9	19.7	10 18	4 18.04	+3 56.3	2.344	3.159	12.1	21.3
10 28	4 24.98	+48 7.7	1.236	2.063	19.8	19.5	10 28	4 11.97	+3 17.4	2.279	3.167	9.5	21.1
11 7	4 13.48	+48 14.7	1.185	2.068	16.5	19.3	11 7	4 4.15	+2 44.5	2.238	3.175	7.0	21.0
11 17	3 58.51	+47 37.9	1.153	2.073	13.5	19.2	11 17	3 55.23	+2 21.0	2.226	3.182	5.4	20.9
11 27	3 42.68	+46 13.3	1.144	2.077	11.9	19.1	11 27	3 46.01	+2 10.4	2.243	3.188	6.1	20.9
12 7	3 28.79	+44 8.5	1.159	2.081	12.8	19.2	12 7	3 37.37	+2 14.1	2.289	3.194	8.3	21.1
12 17	3 18.85	+41 39.4	1.198	2.085	15.5	19.3	12 17	3 30.03	+2 32.5	2.362	3.199	10.8	21.3
12 27	3 13.78	+39 5.0	1.258	2.088	18.7	19.6	12 27	3 24.55	+3 4.5	2.458	3.203	13.1	21.4
<b>255544</b>	2006 <i>JX</i> <sub>8</sub>		11 21.9 65°18	1°5/22.5	18		<b>478539</b>	2012 <i>TB</i> <sub>17</sub>		11 21.9 43°33	3°9/23.3	18	
10 18	4 22.07	+23 35.7	1.292	2.132	18.6	21.3	10 18	4 21.59	+28 0.9	1.420	2.247	17.9	20.7
10 28	4 16.62	+23 47.0	1.227	2.137	14.2	21.0	10 28	4 16.13	+28 39.9	1.358	2.256	13.9	20.4
11 7	4 7.77	+23 48.2	1.183	2.142	9.1	20.7	11 7	4 7.42	+29 6.2	1.316	2.266	9.5	20.2
11 17	3 56.54	+23 38.2	1.163	2.146	3.6	20.4	11 17	3 56.45	+29 16.7	1.299	2.275	5.2	20.0
11 27	3 44.58	+23 18.5	1.168	2.151	3.1	20.4	11 27	3 44.80	+29 10.9	1.308	2.286	4.4	20.0
12 7	3 33.70	+22 53.6	1.200	2.156	8.4	20.7	12 7	3 34.18	+28 52.1	1.343	2.296	8.1	20.2
12 17	3 25.36	+22 29.6	1.256	2.161	13.5	21.0	12 17	3 26.00	+28 26.5	1.403	2.307	12.4	20.5
12 27	3 20.51	+22 12.2	1.334	2.167	17.7	21.3	12 27	3 21.15	+28 1.2	1.486	2.318	16.2	20.8
<b>302732</b>	2002 <i>TN</i> <sub>375</sub>		11 21.9 69°98	3°9/20.2	18		<b>408720</b>	2014 <i>OY</i> <sub>18</sub>		11 21.9 69°55	0°0/22.0	18	
10 18	4 16.47	+11 47.2	1.761	2.601	14.4	20.3	10 18	4 16.40	+21 36.0	1.983	2.810	13.5	21.3
10 28	4 11.33	+11 4.5	1.700	2.609	10.9	20.1	10 28	4 11.23	+21 20.0	1.912	2.816	10.2	21.1
11 7	4 3.96	+10 22.2	1.661	2.618	7.1	19.9	11 7	4 3.92	+20 57.1	1.865	2.823	6.3	20.9
11 17	3 55.16	+9 44.5	1.649	2.626	4.1	19.8	11 17	3 55.20	+20 28.5	1.845	2.830	2.1	20.6
11 27	3 46.00	+9 15.5	1.665	2.635	5.0	19.8	11 27	3 46.08	+19 56.7	1.853	2.836	2.1	20.7
12 7	3 37.59	+8 58.7	1.708	2.643	8.4	20.1	12 7	3 37.65	+19 25.3	1.891	2.843	6.3	20.9
12 17	3 30.87	+8 55.9	1.778	2.652	11.9	20.3	12 17	3 30.81	+18 58.0	1.956	2.850	10.0	21.2
12 27	3 26.48	+9 7.5	1.869	2.661	15.0	20.5	12 27	3 26.20	+18 38.2	2.045	2.857	13.2	21.4
<b>262921</b>	2007 <i>CR</i> <sub>64</sub>		11 21.9 273°98	0°7/22.4	18		<b>127889</b>	2003 <i>GT</i> <sub>8</sub>		11 21.9 180°14	0°3/22.2	18	
10 18	4 15.91	+23 48.6	2.095	2.917	13.1	21.0	10 18	4 20.28	+22 17.1	2.157	2.971	13.0	21.1
10 28	4 10.90	+23 33.9	2.010	2.910	10.0	20.8	10 28	4 14.05	+22 6.1	2.076	2.973	9.9	20.9
11 7	4 3.75	+23 10.6	1.947	2.903	6.3	20.5	11 7	4 5.65	+21 48.1	2.019	2.974	6.2	20.7
11 17	3 55.12	+22 39.4	1.912	2.896	2.4	20.3	11 17	3 55.79	+21 23.5	1.990	2.974	2.2	20.4
11 27	3 46.00	+22 2.4	1.906	2.889	2.1	20.2	11 27	3 45.48	+20 54.3	1.991	2.974	2.0	20.4
12 7	3 37.43	+21 23.3	1.929	2.882	6.1	20.5	12 7	3 35.78	+20 23.7	2.022	2.973	6.1	20.7
12 17	3 30.34	+20 46.2	1.980	2.875	9.8	20.7	12 17	3 27.63	+19 55.5	2.082	2.971	9.7	20.9
12 27	3 25.46	+20 15.4	2.055	2.868	13.1	20.9	12 27	3 21.72	+19 33.3	2.166	2.968	12.9	21.1
<b>513990</b>	2014 <i>HZ</i> <sub>42</sub>		11 21.9 176°56	6°2/18.9	18		<b>325408</b>	2009 <i>HH</i> <sub>100</sub>		11 21.9 356°62	5°0/20.3	18	
10 18	4 16.80	+2 55.8	2.164	2.984	12.8	21.8	10 18	4 17.27	+12 9.7	1.155	2.018	18.8	20.1
10 28	4 11.22	+2 8.4	2.096	2.986	10.1	21.6	10 28	4 13.08	+11 24.9	1.093	2.015	14.3	19.8
11 7	4 3.77	+1 27.7	2.052	2.987	7.6	21.5	11 7	4 5.63	+10 40.1	1.052	2.014	9.4	19.6
11 17	3 55.10	+0 58.2	2.036	2.988	6.2	21.4	11 17	3 55.88	+10 1.2	1.033	2.013	5.4	19.3
11 27	3 46.06	+0 43.8	2.048	2.988	6.9	21.4	11 27	3 45.41	+9 34.5	1.039	2.012	6.4	19.4
12 7	3 37.60	+0 46.3	2.087	2.988	9.1	21.6	12 7	3 35.94	+9 24.9	1.069	2.013	11.1	19.7
12 17	3 30.49	+1 6.1	2.153	2.988	11.8	21.8	12 17	3 28.89	+9 34.7	1.121	2.013	15.9	19.9
12 27	3 25.35	+1 41.7	2.241	2.987	14.2	21.9	12 27	3 25.17	+10 3.7	1.192	2.015	20.0	20.2
<b>52891</b>	1998 <i>SM</i> <sub>61</sub>		11 21.9 94°29	2°8/23.3	18		<b>433585</b>	2013 <i>YH</i> <sub>39</sub>		11 21.9 28°65	2°2/21.3	18	
10 18	4 24.61	+28 18.1	1.624	2.437	16.7	19.4	10 18	4 18.59	+16 10.2	1.206	2.063	18.5	20.4
10 28	4 17.71	+28 22.7	1.570	2.461	12.8	19.2	10 28	4 13.92	+15 57.1	1.150	2.070	13.9	20.2
11 7	4 8.00	+28 13.6	1.536	2.484	8.5	19.0	11 7	4 6.04	+15 41.3	1.113	2.077	8.7	19.9
11 17	3 56.52	+27 49.7	1.529	2.507	4.2	18.8	11 17	3 55.99	+15 25.3	1.100	2.085	3.4	19.6
11 27	3 44.73	+27 12.8	1.550	2.530	3.4	18.8	11 27	3 45.34	+15 12.9	1.113	2.094	4.1	19.7
12 7	3 34.11	+26 28.0	1.599	2.552	7.1	19.1	12 7	3 35.78	+15 7.8	1.151	2.103	9.3	20.0
12 17	3 25.80	+25 41.8	1.675	2.573	11.1	19.4	12 17	3 28.66	+15 13.2	1.212	2.113	14.2	20.3
12 27	3 20.48	+25 0.4	1.775	2.594	14.6	19.6	12 27	3 24.82	+15 30.6	1.293	2.123	18.3	20.6
<b>164632</b>	1994 <i>RM</i> <sub>14</sub>		11 21.9 105°90	2°2/22.9	17		<b>96625</b>	1999 <i>FY</i> <sub>1</sub>		11 21.9 250°26	0°4/21.8	18	
10 18	4 24.93	+26 23.5	1.437	2.261	17.9	20.7	10 18	4 19.02	+20 38.1	1.780	2.609	14.7	20.6
10 28	4 18.31	+26 23.2	1.379	2.278	13.7	20.5	10 28	4 13.64	+20 20.3	1.692	2.598	11.2	20.3
11 7	4 8.55	+26 9.6	1.342	2.295	8.9	20.2	11 7	4 5.68	+19 55.2	1.627	2.586	7.0	20.0
11 17	3 56.74	+25 41.8	1.330	2.311	3.9	20.0	11 17	3 55.87	+19 24.0	1.589	2.574	2.4	19.7
11 27	3 44.50	+25 2.3	1.345	2.327	3.1	20.0	11 27	3 45.37	+18 49.3	1.579	2.562	2.5	19.7
12 7	3 33.49	+24 16.6	1.388	2.342	7.8	20.3	12 7	3 35.47	+18 15.3	1.598	2.549	7.3	20.0
12 17	3 24.98	+23 31.8	1.457	2.357	12.3	20.6	12 17	3 27.32	+17 46.6	1.643	2.536	11.6	20.2
12 27	3 19.75	+22 54.1	1.548	2.371	16.1	20.9	12 27	3 21.77	+17 27.2	1.711	2.523	15.4	20.4
<b>60262</b>	1999 <i>XB</i> <sub>18</sub>		11 21.9 55°92	3°4/23.4	18		<b>384767</b>	2012 <i>LN</i>					

EPHEMERIDES

11 21.9

11 22.0

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>339891</b>	2005 <i>TB</i> <sub>150</sub>		11 21.9 98°79	3°8/20.3	18		<b>436553</b>	2011 <i>GV</i> <sub>86</sub>		11 22.0 134°75	2°3/22.9	18	
10 18	4 19.46	+13 6.9	1.588	2.428	15.7	21.5	10 18	4 22.69	+26 19.0	1.814	2.627	15.2	21.9
10 28	4 13.71	+12 15.1	1.532	2.442	11.8	21.3	10 28	4 16.28	+26 36.5	1.743	2.636	11.7	21.7
11 7	4 5.50	+11 22.3	1.498	2.456	7.6	21.1	11 7	4 7.23	+26 43.9	1.695	2.645	7.7	21.5
11 17	3 55.73	+10 33.2	1.491	2.470	4.2	20.9	11 17	3 56.38	+26 39.7	1.673	2.653	3.6	21.3
11 27	3 45.62	+9 52.9	1.512	2.483	5.1	21.0	11 27	3 45.00	+26 24.6	1.680	2.661	3.0	21.3
12 7	3 36.46	+9 25.6	1.560	2.496	8.9	21.3	12 7	3 34.44	+26 1.6	1.716	2.668	6.8	21.5
12 17	3 29.24	+9 13.9	1.633	2.509	12.7	21.5	12 17	3 25.83	+25 35.6	1.780	2.676	10.7	21.8
12 27	3 24.63	+9 18.2	1.728	2.522	16.0	21.8	12 27	3 19.97	+25 11.8	1.867	2.682	14.1	22.0
<b>271568</b>	2004 <i>KU</i> <sub>6</sub>		11 21.9 69°72	1°9/21.3	18		<b>247093</b>	2000 <i>SJ</i> <sub>223</sub>		11 22.0 352°59	3°3/20.3	18	
10 18	4 20.02	+16 34.6	1.457	2.300	16.7	20.6	10 18	4 11.89	+15 50.7	1.492	2.348	15.6	19.7
10 28	4 14.47	+16 18.2	1.398	2.311	12.5	20.4	10 28	4 8.46	+14 50.2	1.421	2.342	11.8	19.4
11 7	4 6.14	+15 58.7	1.361	2.323	7.8	20.2	11 7	4 2.50	+13 44.4	1.373	2.336	7.5	19.2
11 17	3 55.98	+15 38.3	1.350	2.334	3.0	19.9	11 17	3 54.81	+12 38.2	1.349	2.331	3.7	18.9
11 27	3 45.36	+15 20.4	1.365	2.345	3.6	20.0	11 27	3 46.57	+11 38.0	1.352	2.328	4.7	19.0
12 7	3 35.72	+15 8.6	1.408	2.357	8.3	20.3	12 7	3 39.06	+10 50.0	1.381	2.326	9.0	19.2
12 17	3 28.22	+15 5.9	1.475	2.369	12.7	20.6	12 17	3 33.38	+10 18.6	1.435	2.324	13.2	19.5
12 27	3 23.62	+15 14.2	1.565	2.380	16.4	20.8	12 27	3 30.29	+10 5.7	1.509	2.324	16.9	19.7
<b>464275</b>	2015 <i>XG</i> <sub>168</sub>		11 21.9 339°26	9°6/16.3	17		<b>284517</b>	2007 <i>RO</i> <sub>64</sub>		11 22.0 330°85	4°3/20.1	18	
10 18	4 10.67	- 1 7.6	1.704	2.542	14.9	19.9	10 18	4 14.93	+12 34.4	1.490	2.342	15.9	20.4
10 28	4 7.22	- 2 40.1	1.636	2.527	12.4	19.7	10 28	4 10.79	+11 45.1	1.416	2.332	12.1	20.1
11 7	4 1.60	- 4 2.9	1.591	2.514	10.3	19.6	11 7	4 3.99	+10 54.4	1.364	2.324	8.0	19.9
11 17	3 54.47	- 5 7.9	1.569	2.501	9.6	19.5	11 17	3 55.33	+10 7.2	1.337	2.316	4.6	19.7
11 27	3 46.82	- 5 47.9	1.572	2.489	10.6	19.5	11 27	3 46.03	+9 29.3	1.337	2.308	5.6	19.7
12 7	3 39.73	- 5 59.3	1.600	2.478	12.8	19.6	12 7	3 37.43	+9 5.5	1.362	2.302	9.6	19.9
12 17	3 34.14	- 5 41.8	1.649	2.468	15.5	19.8	12 17	3 30.71	+8 58.8	1.412	2.295	13.8	20.1
12 27	3 30.78	- 4 58.3	1.716	2.459	18.0	20.0	12 27	3 26.68	+9 10.0	1.482	2.289	17.5	20.4
<b>508962</b>	2004 <i>TW</i> <sub>274</sub>		11 21.9 16°16	2°6/22.7	18		<b>243560</b>	1994 <i>PO</i> <sub>5</sub>		11 22.0 103°02	7°2/18.6	18	
10 18	4 17.49	+24 15.0	0.922	1.791	21.9	20.9	10 18	4 17.79	+ 1 38.1	1.917	2.739	14.1	20.4
10 28	4 14.12	+24 43.4	0.871	1.795	16.8	20.7	10 28	4 12.01	+ 0 35.2	1.868	2.757	11.2	20.3
11 7	4 6.66	+24 59.4	0.838	1.801	10.9	20.4	11 7	4 4.27	- 0 18.7	1.843	2.774	8.6	20.1
11 17	3 56.28	+25 0.8	0.825	1.809	4.7	20.1	11 17	3 55.31	- 0 58.0	1.844	2.790	7.3	20.1
11 27	3 45.06	+24 48.5	0.835	1.818	3.9	20.1	11 27	3 46.13	- 1 18.5	1.873	2.807	8.0	20.2
12 7	3 35.24	+24 27.9	0.867	1.828	9.8	20.4	12 7	3 37.71	- 1 18.3	1.929	2.823	10.2	20.3
12 17	3 28.57	+24 6.6	0.920	1.840	15.4	20.8	12 17	3 30.87	- 0 58.0	2.009	2.838	12.8	20.5
12 27	3 26.01	+23 51.6	0.991	1.853	20.2	21.1	12 27	3 26.18	- 0 19.8	2.111	2.853	15.1	20.7
<b>280616</b>	2004 <i>XC</i> <sub>56</sub>		11 21.9 352°51	0°4/22.2	18		<b>140412</b>	2001 <i>TH</i> <sub>83</sub>		11 22.0 25°26	2°0/23.0	18	
10 18	4 13.99	+23 18.9	1.865	2.697	14.0	19.9	10 18	4 17.05	+26 57.2	1.817	2.638	14.8	20.1
10 28	4 9.67	+22 54.8	1.787	2.694	10.6	19.7	10 28	4 12.05	+26 48.0	1.742	2.640	11.4	19.9
11 7	4 3.08	+22 21.5	1.732	2.691	6.7	19.4	11 7	4 4.61	+26 26.9	1.690	2.642	7.5	19.7
11 17	3 54.96	+21 40.1	1.704	2.688	2.4	19.2	11 17	3 55.50	+25 53.9	1.664	2.645	3.4	19.4
11 27	3 46.36	+20 53.9	1.703	2.687	2.2	19.2	11 27	3 45.91	+25 11.2	1.666	2.648	2.7	19.4
12 7	3 38.41	+20 7.3	1.731	2.685	6.5	19.4	12 7	3 37.07	+24 23.3	1.696	2.651	6.6	19.7
12 17	3 32.08	+19 25.1	1.785	2.684	10.5	19.7	12 17	3 30.04	+23 35.6	1.754	2.654	10.5	19.9
12 27	3 28.08	+18 51.5	1.863	2.684	13.9	19.9	12 27	3 25.54	+22 53.6	1.834	2.658	14.0	20.1
<b>78453</b>	Bullock		11 21.9 94°94	1°6/21.1	18		<b>113250</b>	2002 <i>RP</i> <sub>133</sub>		11 22.0 66°25	1°6/21.6	18	
10 18	4 15.14	+15 30.1	2.441	3.266	11.4	19.7	10 18	4 22.89	+16 18.6	1.326	2.171	17.9	19.1
10 28	4 9.83	+15 15.2	2.374	3.278	8.5	19.5	10 28	4 16.79	+16 23.8	1.275	2.188	13.5	18.9
11 7	4 2.86	+14 58.8	2.333	3.291	5.3	19.4	11 7	4 7.65	+16 27.1	1.245	2.206	8.3	18.7
11 17	3 54.82	+14 42.6	2.320	3.303	2.2	19.2	11 17	3 56.53	+16 29.5	1.240	2.224	3.0	18.4
11 27	3 46.52	+14 28.7	2.337	3.315	2.7	19.2	11 27	3 44.98	+16 32.9	1.261	2.243	3.4	18.5
12 7	3 38.76	+14 19.1	2.384	3.327	5.8	19.5	12 7	3 34.59	+16 40.1	1.309	2.261	8.5	18.8
12 17	3 32.24	+14 15.6	2.459	3.339	8.8	19.7	12 17	3 26.62	+16 53.4	1.382	2.279	13.1	19.2
12 27	3 27.50	+14 19.6	2.559	3.351	11.4	19.9	12 27	3 21.83	+17 14.7	1.477	2.297	16.9	19.5
<b>116143</b>	2003 <i>WO</i> <sub>152</sub>		11 21.9 133°93	2°1/23.2	18		<b>320223</b>	2007 <i>HG</i> <sub>72</sub>		11 22.0 36°03	2°1/20.8	18	
10 18	4 19.30	+28 21.0	1.968	2.777	14.3	20.0	10 18	4 13.92	+17 3.1	2.011	2.847	13.0	20.2
10 28	4 13.51	+28 2.8	1.894	2.784	11.0	19.8	10 28	4 9.29	+16 12.5	1.942	2.852	9.7	20.0
11 7	4 5.37	+27 31.7	1.842	2.791	7.3	19.6	11 7	4 2.69	+15 17.5	1.898	2.858	6.1	19.7
11 17	3 55.71	+26 47.9	1.818	2.797	3.5	19.4	11 17	3 54.82	+14 21.2	1.880	2.863	2.6	19.5
11 27	3 45.65	+25 53.7	1.823	2.804	2.7	19.3	11 27	3 46.63	+13 28.1	1.892	2.869	3.3	19.6
12 7	3 36.39	+24 54.0	1.857	2.810	6.3	19.6	12 7	3 39.08	+12 42.5	1.932	2.875	6.9	19.8
12 17	3 28.91	+23 54.6	1.918	2.815	10.0	19.8	12 17	3 33.00	+12 7.8	1.999	2.882	10.4	20.1
12 27	3 23.88	+23 1.2	2.005	2.821	13.3	20.0	12 27	3 28.98	+11 46.2	2.090	2.888	13.4	20.3
<b>407243</b>	Krapivin		11 21.9 64°77	0°5/21.7	15		<b>265922</b>	2006 <i>BS</i> <sub>130</sub>		11 22.0 156°89	1°8/23.1	17	
10 18	4 15.96	+19 53.1	2.076	2.904	13.0	21.8	10 18	4 16.30	+27 10.0	2.620	3.421	11.4	21.5
10 28	4 10.70	+19 34.8	2.015	2.920	9.7	21.6	10 28	4 10.81	+27 10.6	2.539	3.425	8.7	21.3
11 7	4 3.49	+19 11.4	1.978	2.937	6.0	21.4	11 7	4 3.55	+27 2.9	2.482	3.429	5.8	21.1
11 17	3 55.04	+18 44.3	1.969	2.954	2.0	21.2	11 17	3 55.12	+26 46.4	2.454	3.432	2.8	20.9
11 27	3 46.33	+18 16.3	1.988	2.970	2.2	21.2	11 27	3 46.32	+26 22.3	2.455	3.435	2.3	20.9
12 7	3 38.31	+17 50.4	2.037	2.987	6.0	21.5	12 7	3 38.04	+25 53.0	2.487	3.438	5.0	21.1
12 17	3 31.80	+17 29.7	2.113	3.004	9.5	21.7	12 17	3 31.01	+25 21.8	2.548	3.441	8.0	21.3
12 27	3 27.39	+17 16.7	2.214	3.021	12.5	22.0	12 27	3 25.84	+24 52.5	2.635	3.444	10.7	21.5
<b>259525</b>	2003 <i>UH</i> <sub>35</sub>		11 22.0 95°23	3°0/23.3	18		<b>111931</b>	2002 <i>GU</i> <sub>25</sub>		11 22			