

EPHEMERIDES

6 10.9

6 11.0

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>391352</b>	2006 <i>UY</i> <sub>228</sub>		6 10.9 229°32	4.9/ 9.2	18		<b>508476</b>	2016 <i>PG</i> <sub>2</sub>		6 11.0 332°45	10.8/ 7.9	17	
5 11	17 38.94	- 8 49.0	2.598	3.461	10.1	21.0	5 11	17 38.24	- 2 33.4	1.386	2.263	16.3	19.8
5 21	17 33.23	- 7 53.1	2.521	3.451	7.8	20.9	5 21	17 33.61	- 0 56.3	1.325	2.252	13.6	19.6
5 31	17 26.19	- 7 2.7	2.469	3.440	5.7	20.7	5 31	17 26.71	+ 0 25.3	1.285	2.241	11.4	19.4
6 10	17 18.40	- 6 20.6	2.445	3.429	4.9	20.6	6 10	17 18.49	+ 1 23.7	1.267	2.231	10.8	19.3
6 20	17 10.49	- 5 48.8	2.448	3.418	6.0	20.7	6 20	17 10.07	+ 1 53.8	1.271	2.222	12.2	19.4
6 30	17 3.17	- 5 28.9	2.479	3.406	8.2	20.8	6 30	17 2.65	+ 1 53.7	1.296	2.214	14.9	19.5
7 10	16 57.03	- 5 21.2	2.535	3.394	10.6	20.9	7 10	16 57.24	+ 1 25.6	1.340	2.206	17.8	19.7
7 20	16 52.50	- 5 24.8	2.611	3.382	12.8	21.1	7 20	16 54.47	+ 0 34.6	1.400	2.199	20.6	19.9
<b>410292</b>	2007 <i>TU</i> <sub>253</sub>		6 10.9 125°74	3.4/11.3	16		<b>256832</b>	2008 <i>CJ</i> <sub>149</sub>		6 11.0 171°00	0.6/10.9	17	
5 11	17 48.17	-30 11.9	1.591	2.470	14.4	22.1	5 11	17 44.56	-22 17.3	1.731	2.617	13.1	21.7
5 21	17 40.61	-30 46.7	1.534	2.481	10.5	21.9	5 21	17 37.78	-22 2.6	1.666	2.619	9.3	21.5
5 31	17 30.43	-31 13.2	1.500	2.491	6.4	21.7	5 31	17 28.84	-21 45.7	1.624	2.621	5.0	21.3
6 10	17 18.79	-31 27.8	1.492	2.501	3.5	21.5	6 10	17 18.69	-21 26.9	1.608	2.623	0.8	21.0
6 20	17 7.07	-31 29.5	1.510	2.510	5.4	21.6	6 20	17 8.46	-21 7.2	1.619	2.624	4.2	21.2
6 30	16 56.72	-31 19.9	1.554	2.519	9.3	21.9	6 30	16 59.31	-20 48.8	1.657	2.625	8.6	21.5
7 10	16 48.84	-31 3.2	1.622	2.528	13.1	22.1	7 10	16 52.19	-20 33.7	1.719	2.625	12.5	21.7
7 20	16 44.04	-30 43.8	1.709	2.536	16.3	22.4	7 20	16 47.65	-20 23.9	1.801	2.625	15.7	21.9
<b>393831</b>	2005 <i>ST</i> <sub>87</sub>		6 10.9 285°01	6.0/ 9.4	16		<b>389461</b>	2010 <i>DY</i> <sub>63</sub>		6 11.0 327°08	11.7/ 9.8	16	
5 11	17 37.96	- 6 39.5	2.195	3.061	11.5	21.5	5 11	17 38.46	+ 6 36.8	1.745	2.572	15.7	19.9
5 21	17 32.73	- 5 50.6	2.125	3.054	9.1	21.4	5 21	17 33.45	+ 7 17.9	1.678	2.559	13.8	19.8
5 31	17 25.98	- 5 10.7	2.079	3.047	6.9	21.2	5 31	17 26.54	+ 7 35.8	1.631	2.546	12.3	19.6
6 10	17 18.38	- 4 42.5	2.060	3.040	6.0	21.2	6 10	17 18.48	+ 7 25.9	1.606	2.534	11.7	19.6
6 20	17 10.67	- 4 28.2	2.066	3.034	7.1	21.2	6 20	17 10.21	+ 6 46.2	1.603	2.522	12.4	19.6
6 30	17 3.63	- 4 28.7	2.098	3.027	9.4	21.3	6 30	17 2.72	+ 5 37.9	1.622	2.511	14.0	19.6
7 10	16 57.95	- 4 43.3	2.154	3.020	12.0	21.5	7 10	16 56.89	+ 4 5.6	1.661	2.500	16.2	19.8
7 20	16 54.10	- 5 10.1	2.230	3.014	14.3	21.6	7 20	16 53.30	+ 2 15.5	1.719	2.490	18.4	19.9
<b>504079</b>	2006 <i>BM</i> <sub>72</sub>		6 10.9 227°59	0.7/10.9	18		<b>350699</b>	2001 <i>WK</i> <sub>26</sub>		6 11.0 234°13	0.6/11.1	18	
5 11	17 43.25	-20 38.6	2.212	3.089	11.0	22.1	5 11	17 41.39	-24 11.2	2.440	3.316	10.1	21.3
5 21	17 36.63	-20 42.3	2.128	3.078	7.8	21.8	5 21	17 35.23	-24 27.8	2.358	3.307	7.2	21.1
5 31	17 28.17	-20 46.0	2.069	3.065	4.3	21.6	5 31	17 27.39	-24 42.6	2.301	3.297	4.0	20.9
6 10	17 18.59	-20 49.6	2.038	3.052	0.8	21.3	6 10	17 18.56	-24 54.6	2.272	3.287	0.7	20.6
6 20	17 8.77	-20 52.9	2.035	3.039	3.7	21.5	6 20	17 9.52	-25 3.4	2.272	3.276	3.2	20.8
6 30	16 59.65	-20 56.5	2.060	3.024	7.4	21.7	6 30	17 1.13	-25 9.3	2.300	3.265	6.6	21.0
7 10	16 52.06	-21 1.6	2.111	3.009	10.8	21.9	7 10	16 54.13	-25 13.5	2.354	3.254	9.8	21.2
7 20	16 46.59	-21 9.1	2.184	2.994	13.8	22.1	7 20	16 49.06	-25 17.4	2.430	3.243	12.5	21.3
<b>201628</b>	2003 <i>SO</i> <sub>262</sub>		6 10.9 299°68	3.0/11.3	17		<b>330806</b>	2008 <i>UW</i> <sub>345</sub>		6 11.0 298°19	11.7/ 8.8	18	
5 11	17 43.49	-30 1.1	1.827	2.707	12.8	20.3	5 11	17 41.34	+ 4 57.8	1.722	2.553	15.7	20.0
5 21	17 37.16	-30 28.9	1.758	2.705	9.4	20.1	5 21	17 35.77	+ 5 47.7	1.632	2.519	13.8	19.8
5 31	17 28.56	-30 49.8	1.712	2.703	5.7	19.9	5 31	17 27.96	+ 6 16.9	1.562	2.484	12.2	19.6
6 10	17 18.63	-31 1.2	1.693	2.702	3.0	19.7	6 10	17 18.64	+ 6 19.3	1.514	2.450	11.7	19.5
6 20	17 8.50	-31 2.1	1.700	2.700	4.8	19.8	6 20	17 8.77	+ 5 51.1	1.489	2.415	12.7	19.4
6 30	16 59.39	-30 53.8	1.733	2.699	8.4	20.0	6 30	16 59.50	+ 4 51.9	1.486	2.380	14.8	19.5
7 10	16 52.31	-30 39.2	1.790	2.697	12.0	20.2	7 10	16 51.88	+ 3 25.0	1.504	2.345	17.5	19.6
7 20	16 47.87	-30 22.0	1.868	2.696	15.1	20.4	7 20	16 46.68	+ 1 36.3	1.540	2.310	20.2	19.7
<b>389922</b>	2012 <i>TO</i> <sub>102</sub>		6 10.9 140°94	1.5/11.3	17		<b>219630</b>	2001 <i>TZ</i> <sub>235</sub>		6 11.0 180°13	3.9/10.5	17	
5 11	17 42.66	-27 38.8	2.043	2.922	11.7	21.9	5 11	17 42.48	-12 18.2	1.976	2.851	12.2	20.8
5 21	17 36.24	-27 42.1	1.976	2.925	8.4	21.7	5 21	17 36.06	-12 4.0	1.909	2.852	9.0	20.6
5 31	17 27.93	-27 39.8	1.935	2.929	4.8	21.5	5 31	17 27.84	-11 56.3	1.866	2.853	5.8	20.4
6 10	17 18.57	-27 31.0	1.920	2.933	1.6	21.3	6 10	17 18.61	-11 56.5	1.850	2.853	3.9	20.3
6 20	17 9.15	-27 16.0	1.932	2.936	3.8	21.4	6 20	17 9.26	-12 5.2	1.861	2.853	5.5	20.4
6 30	17 0.68	-26 56.4	1.972	2.939	7.4	21.7	6 30	17 0.75	-12 22.6	1.899	2.852	8.7	20.6
7 10	16 53.99	-26 35.0	2.036	2.942	10.8	21.9	7 10	16 53.88	-12 48.1	1.961	2.851	11.9	20.8
7 20	16 49.59	-26 14.5	2.123	2.945	13.7	22.1	7 20	16 49.17	-13 20.5	2.044	2.849	14.8	21.0
<b>204692</b>	2006 <i>ET</i>		6 11.0 6°47	2.6/11.1	18		<b>220984</b>	2005 <i>NT</i> <sub>15</sub>		6 11.0 305°65	0.3/10.9	18	
5 11	17 41.13	-15 51.6	1.007	1.920	17.8	18.5	5 11	17 42.10	-22 8.3	1.395	2.295	14.8	19.9
5 21	17 36.36	-16 23.9	0.955	1.920	12.9	18.2	5 21	17 36.79	-22 13.3	1.312	2.272	10.7	19.5
5 31	17 28.45	-17 6.9	0.922	1.921	7.4	17.9	5 31	17 28.68	-22 17.9	1.250	2.250	5.8	19.2
6 10	17 18.64	-17 59.1	0.910	1.923	2.7	17.6	6 10	17 18.71	-22 21.2	1.213	2.228	0.6	18.8
6 20	17 8.56	-18 57.5	0.920	1.926	6.1	17.8	6 20	17 8.19	-22 23.0	1.200	2.206	5.0	19.0
6 30	16 59.97	-19 58.9	0.953	1.931	11.7	18.1	6 30	16 58.63	-22 24.3	1.211	2.185	10.3	19.3
7 10	16 54.26	-21 1.0	1.005	1.937	16.7	18.4	7 10	16 51.36	-22 27.2	1.243	2.164	15.1	19.5
7 20	16 52.15	-22 2.3	1.074	1.943	21.0	18.7	7 20	16 47.25	-22 33.6	1.294	2.143	19.3	19.7
<b>344958</b>	2004 <i>WL</i> <sub>2</sub>		6 11.0 243°47	0.4/10.9	18		<b>363680</b>	2004 <i>TQ</i> <sub>108</sub>		6 11.0 222°25	3.0/11.2	17	
5 11	17 43.10	-22 20.6	2.305	3.181	10.7	22.3	5 11	17 48.02	-29 0.5	1.650	2.529	14.0	21.3
5 21	17 36.52	-22 14.6	2.213	3.162	7.6	22.1	5 21	17 40.71	-29 35.0	1.574	2.521	10.3	21.1
5 31	17 28.13	-22 6.7	2.147	3.143	4.1	21.8	5 31	17 30.66	-30 3.3	1.521	2.513	6.2	20.8
6 10	17 18.61	-21 57.0	2.108	3.123	0.5	21.5	6 10	17 18.89	-30 21.8	1.493	2.504	3.0	20.6
6 20	17 8.83	-21 45.7	2.098	3.102	3.5	21.7	6 20	17 6.73	-30 28.7	1.493	2.494	5.2	20.7
6 30	16 59.70	-21 34.0	2.117	3.081	7.2	21.9	6 30	16 55.66	-30 24.8	1.518	2.484	9.4	20.9
7 10	16 52.06	-21 23.7	2.161	3.059	10.6	22.1	7 10	16 46.93	-30 13.7	1.567	2.473	13.5	21.1
7 20	16 46.46	-21 16.3	2.227	3.036	13.6	22.2	7 20	16 41.28	-29 59.5	1.637	2.461	17.0	21.3
<b>380924</b>	2006 <i>GT</i> <sub>35</sub>		6 11.0 45°54	3.9/11.4	1								

EPHEMERIDES

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>146248</b>	2000 XW <sub>35</sub>		6 11.0 106°06'	3°1/12.3	18		<b>182312</b>	2001 OT <sub>59</sub>		6 11.0 307°35'	0°2/10.9	17	
5 11	17 44.42	-35 51.8	2.617	3.469	10.3	19.9	5 11	17 41.83	-23 13.5	1.393	2.293	14.8	19.8
5 21	17 37.04	-35 30.6	2.559	3.487	7.8	19.7	5 21	17 36.59	-23 4.4	1.310	2.271	10.6	19.5
5 31	17 28.18	-34 58.5	2.526	3.504	5.1	19.6	5 31	17 28.57	-22 52.2	1.249	2.249	5.8	19.2
6 10	17 18.63	-34 15.3	2.521	3.522	3.2	19.5	6 10	17 18.75	-22 36.6	1.211	2.227	0.6	18.8
6 20	17 9.27	-33 22.4	2.545	3.539	4.0	19.5	6 20	17 8.42	-22 18.5	1.199	2.205	4.9	19.0
6 30	17 0.91	-32 22.7	2.598	3.556	6.4	19.7	6 30	16 59.10	-22 0.0	1.210	2.184	10.3	19.3
7 10	16 54.19	-31 20.1	2.677	3.572	8.9	19.9	7 10	16 52.09	-21 44.4	1.242	2.163	15.1	19.5
7 20	16 49.48	-30 18.3	2.781	3.588	11.2	20.1	7 20	16 48.22	-21 34.1	1.293	2.143	19.3	19.7
<b>512440</b>	2016 QC <sub>6</sub>		6 11.0 284°86'	1°4/11.4	17		<b>163349</b>	2002 NZ <sub>4</sub>		6 11.0 264°71'	1°7/11.4	18	
5 11	17 42.48	-28 6.1	1.874	2.757	12.4	21.2	5 11	17 42.98	-28 44.5	2.067	2.944	11.7	20.0
5 21	17 36.42	-27 49.5	1.790	2.741	9.0	21.0	5 21	17 36.65	-28 35.5	1.980	2.928	8.5	19.8
5 31	17 28.19	-27 25.1	1.729	2.724	5.1	20.7	5 31	17 28.29	-28 19.2	1.917	2.911	4.9	19.5
6 10	17 18.67	-26 52.7	1.695	2.708	1.5	20.4	6 10	17 18.71	-27 54.9	1.881	2.894	1.8	19.3
6 20	17 8.91	-26 13.2	1.687	2.692	4.1	20.6	6 20	17 8.89	-27 23.2	1.873	2.877	3.9	19.4
6 30	17 0.07	-25 29.5	1.706	2.676	8.2	20.8	6 30	16 59.91	-26 46.2	1.892	2.859	7.7	19.6
7 10	16 53.13	-24 45.5	1.750	2.659	12.1	21.0	7 10	16 52.68	-26 7.4	1.936	2.841	11.3	19.8
7 20	16 48.69	-24 4.9	1.814	2.643	15.4	21.2	7 20	16 47.80	-25 30.4	2.001	2.823	14.4	20.0
<b>441368</b>	2008 EB <sub>11</sub>		6 11.0 15°93'	0°8/10.9	15		<b>163056</b>	2001 YM <sub>70</sub>		6 11.0 243°45'	3°3/11.6	17	
5 11	17 39.71	-20 10.2	1.925	2.813	11.8	21.1	5 11	17 47.32	-31 14.5	1.537	2.418	14.7	20.5
5 21	17 34.23	-20 20.3	1.861	2.816	8.4	20.9	5 21	17 40.32	-31 19.1	1.461	2.408	10.9	20.2
5 31	17 26.91	-20 31.5	1.821	2.819	4.6	20.6	5 31	17 30.49	-31 12.9	1.407	2.398	6.7	19.9
6 10	17 18.56	-20 43.4	1.807	2.822	0.9	20.4	6 10	17 18.92	-30 53.2	1.377	2.387	3.4	19.7
6 20	17 10.10	-20 55.9	1.821	2.826	3.8	20.6	6 20	17 7.05	-30 20.0	1.373	2.375	5.4	19.8
6 30	17 2.50	-21 9.1	1.860	2.830	7.7	20.9	6 30	16 56.44	-29 36.4	1.395	2.363	9.8	20.0
7 10	16 56.58	-21 23.7	1.925	2.834	11.2	21.1	7 10	16 48.34	-28 48.1	1.440	2.351	14.1	20.2
7 20	16 52.85	-21 40.2	2.010	2.839	14.1	21.3	7 20	16 43.48	-28 0.7	1.504	2.339	17.8	20.5
<b>244410</b>	2002 PW <sub>174</sub>		6 11.0 258°94'	0°8/11.1	18		<b>79563</b>	1998 QD <sub>70</sub>		6 11.0 189°52'	0°3/10.9	18	
5 11	17 42.42	-24 45.4	2.055	2.936	11.5	20.8	5 11	17 45.00	-23 44.8	2.146	3.022	11.4	19.3
5 21	17 36.25	-25 2.1	1.973	2.924	8.3	20.6	5 21	17 37.80	-23 19.5	2.072	3.021	8.1	19.0
5 31	17 28.08	-25 16.5	1.916	2.912	4.6	20.3	5 31	17 28.78	-22 50.2	2.023	3.019	4.4	18.8
6 10	17 18.68	-25 27.2	1.885	2.900	1.0	20.0	6 10	17 18.75	-22 17.5	2.002	3.017	0.5	18.5
6 20	17 9.01	-25 33.7	1.882	2.887	3.7	20.2	6 20	17 8.65	-21 42.8	2.009	3.013	3.6	18.8
6 30	17 0.10	-25 36.4	1.907	2.874	7.6	20.4	6 30	16 59.46	-21 8.5	2.045	3.010	7.4	19.0
7 10	16 52.86	-25 37.1	1.956	2.861	11.2	20.6	7 10	16 51.97	-20 37.2	2.107	3.005	10.9	19.2
7 20	16 47.91	-25 37.6	2.026	2.848	14.3	20.8	7 20	16 46.70	-20 11.0	2.190	2.999	13.8	19.4
<b>519333</b>	2011 FF <sub>159</sub>		6 11.0 3°54'	3°1/10.5	16		<b>55584</b>	2002 PV <sub>44</sub>		6 11.0 303°25'	7°4/10.7	18	
5 11	17 38.06	-18 1.0	1.241	2.150	15.5	20.7	5 11	17 46.84	-35 30.9	1.399	2.278	16.0	18.5
5 21	17 33.69	-17 27.8	1.186	2.149	11.1	20.4	5 21	17 40.88	-36 56.2	1.312	2.251	12.6	18.2
5 31	17 26.83	-16 57.1	1.151	2.149	6.4	20.2	5 31	17 31.30	-38 13.5	1.247	2.225	9.3	17.9
6 10	17 18.56	-16 31.4	1.139	2.151	3.1	20.0	6 10	17 19.04	-39 14.2	1.205	2.198	7.4	17.8
6 20	17 10.19	-16 13.0	1.150	2.153	6.0	20.1	6 20	17 5.70	-39 51.7	1.187	2.172	9.0	17.8
6 30	17 3.08	-16 4.1	1.185	2.157	10.7	20.4	6 30	16 53.32	-40 4.3	1.193	2.146	12.7	17.9
7 10	16 58.30	-16 5.4	1.240	2.162	15.0	20.7	7 10	16 43.77	-39 56.0	1.218	2.120	16.8	18.1
7 20	16 56.43	-16 16.6	1.313	2.168	18.7	20.9	7 20	16 38.23	-39 34.2	1.262	2.095	20.6	18.2
<b>160927</b>	2001 XV <sub>193</sub>		6 11.0 263°05'	3°9/10.7	17		<b>127374</b>	2002 KE		6 11.0 343°20'	8°5/10.7	18	
5 11	17 44.59	-14 0.2	1.517	2.403	14.6	20.0	5 11	17 39.54	- 2 58.1	1.501	2.372	15.6	18.4
5 21	17 38.27	-13 52.5	1.435	2.386	10.8	19.8	5 21	17 34.45	- 2 39.2	1.437	2.366	12.6	18.2
5 31	17 29.38	-13 52.1	1.376	2.368	6.7	19.5	5 31	17 27.18	- 2 38.8	1.394	2.359	9.8	18.0
6 10	17 18.82	-14 0.1	1.341	2.349	3.9	19.3	6 10	17 18.61	- 3 0.1	1.374	2.354	8.5	17.9
6 20	17 7.78	-14 17.1	1.333	2.331	6.2	19.3	6 20	17 9.83	- 3 43.8	1.377	2.349	9.5	18.0
6 30	16 57.63	-14 43.2	1.349	2.311	10.6	19.5	6 30	17 2.00	- 4 48.1	1.404	2.344	12.2	18.1
7 10	16 49.57	-15 17.9	1.388	2.292	15.0	19.7	7 10	16 56.09	- 6 8.8	1.453	2.341	15.4	18.3
7 20	16 44.39	-16 0.0	1.446	2.272	18.8	19.9	7 20	16 52.73	- 7 40.7	1.520	2.338	18.4	18.5
<b>355235</b>	2007 CT <sub>6</sub>		6 11.0 105°90'	2°8/10.7	18		<b>251708</b>	1996 XO <sub>32</sub>		6 11.0 171°76'	7°2/13.4	17	
5 11	17 39.53	-13 39.4	2.365	3.239	10.5	21.2	5 11	17 56.08	-41 20.2	1.288	2.147	18.4	20.1
5 21	17 33.76	-13 42.1	2.301	3.246	7.6	21.0	5 21	17 46.88	-41 0.9	1.224	2.150	14.5	19.8
5 31	17 26.54	-13 50.0	2.263	3.253	4.7	20.8	5 31	17 34.01	-40 14.6	1.180	2.152	10.4	19.6
6 10	17 18.53	-14 3.5	2.253	3.259	2.8	20.7	6 10	17 19.24	-38 57.0	1.160	2.154	7.5	19.4
6 20	17 10.46	-14 22.4	2.270	3.265	4.3	20.8	6 20	17 4.73	-37 10.7	1.164	2.155	8.1	19.5
6 30	17 3.08	-14 46.5	2.315	3.272	7.1	21.0	6 30	16 52.52	-35 5.1	1.193	2.155	11.7	19.7
7 10	16 57.04	-15 15.4	2.385	3.278	10.0	21.2	7 10	16 43.97	-32 53.7	1.245	2.155	15.9	19.9
7 20	16 52.78	-15 48.3	2.478	3.284	12.4	21.4	7 20	16 39.56	-30 48.3	1.317	2.155	19.7	20.2
<b>19333</b>	1996 YT <sub>1</sub>		6 11.0 255°19'	4°7/12.3	18		<b>383930</b>	2008 SB <sub>194</sub>		6 11.0 247°62'	0°7/11.1	18	
5 11	17 46.34	-37 10.4	1.941	2.800	13.1	17.6	5 11	17 43.02	-24 8.7	1.862	2.747	12.4	21.1
5 21	17 39.22	-37 6.7	1.859	2.788	10.1	17.4	5 21	17 36.77	-24 28.7	1.789	2.742	8.8	20.9
5 31	17 29.72	-36 48.3	1.800	2.776	7.0	17.2	5 31	17 28.39	-24 46.7	1.741	2.738	4.8	20.6
6 10	17 18.83	-36 12.9	1.766	2.764	4.8	17.1	6 10	17 18.74	-25 1.4	1.718	2.733	0.9	20.3
6 20	17 7.80	-35 20.7	1.760	2.752	5.7	17.1	6 20	17 8.86	-25 11.9	1.723	2.728	4.0	20.5
6 30	16 57.92	-34 15.3	1.780	2.739	8.8	17.2	6 30	16 59.88	-25 18.8	1.755	2.724	8.1	20.8
7 10	16 50.21	-33 2.6	1.825	2.726	12.1	17.4	7 10	16 52.76	-25 23.6	1.810	2.719	11.8	21.0
7 20	16 45.28	-31 48.6	1.891	2.713	15.2	17.6	7 20	16 48.12	-25 28.2	1.887	2.714	15.0	21.2
<b>440271</b>	2004 RS <sub>131</sub>		6 11.0 297°28'	4°5/11.8	18		<b>329178</b>	2012 DP <sub>21</sub>		6 11.0 144°34'	0°8/11.1	17	
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EPHEMERIDES

6 11.0

6 11.0

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>278779</b>	2008 SC <sub>164</sub>		6 11.0 269°26	2°0/10.6	18		<b>123522</b>	2000 XA <sub>5</sub>		6 11.0 250°53	3°7/11.6	18	
5 11	17 41.97	-18 34.4	1.892	2.777	12.2	21.0	5 11	17 45.36	-32 58.7	2.035	2.903	12.2	20.5
5 21	17 36.01	-18 15.9	1.807	2.759	8.8	20.8	5 21	17 38.53	-33 19.0	1.949	2.888	9.2	20.3
5 31	17 28.00	-17 58.3	1.745	2.741	5.0	20.5	5 31	17 29.41	-33 30.2	1.887	2.872	6.0	20.0
6 10	17 18.72	-17 42.4	1.710	2.722	2.0	20.3	6 10	17 18.88	-33 29.6	1.852	2.856	3.7	19.9
6 20	17 9.13	-17 29.5	1.702	2.703	4.6	20.4	6 20	17 8.02	-33 16.2	1.843	2.839	5.1	19.9
6 30	17 0.31	-17 21.0	1.720	2.684	8.6	20.6	6 30	16 58.04	-32 51.6	1.862	2.822	8.3	20.1
7 10	16 53.19	-17 18.2	1.763	2.665	12.4	20.8	7 10	16 49.99	-32 19.3	1.905	2.805	11.7	20.3
7 20	16 48.41	-17 21.9	1.826	2.645	15.7	21.0	7 20	16 44.53	-31 43.8	1.969	2.787	14.8	20.4
<b>152240</b>	2005 SR <sub>69</sub>		6 11.0 193°73	0°1/11.0	18		<b>470860</b>	2008 YT <sub>107</sub>		6 11.0 199°44	1°6/10.8	17	
5 11	17 40.95	-21 36.5	2.935	3.806	8.8	20.6	5 11	17 41.24	-18 20.0	2.199	3.079	10.9	22.0
5 21	17 34.67	-22 0.3	2.857	3.804	6.2	20.5	5 21	17 35.16	-18 16.4	2.127	3.077	7.8	21.8
5 31	17 27.05	-22 24.2	2.805	3.801	3.4	20.3	5 31	17 27.40	-18 14.5	2.079	3.075	4.4	21.6
6 10	17 18.63	-22 47.2	2.783	3.798	0.3	20.0	6 10	17 18.68	-18 14.5	2.059	3.072	1.6	21.4
6 20	17 10.06	-23 8.9	2.790	3.794	2.8	20.2	6 20	17 9.83	-18 16.8	2.067	3.069	3.9	21.6
6 30	17 2.02	-23 28.9	2.827	3.790	5.7	20.4	6 30	17 1.73	-18 22.0	2.103	3.066	7.3	21.8
7 10	16 55.13	-23 47.8	2.891	3.786	8.4	20.6	7 10	16 55.12	-18 30.6	2.163	3.063	10.6	22.0
7 20	16 49.82	-24 6.2	2.978	3.781	10.7	20.7	7 20	16 50.51	-18 43.1	2.246	3.059	13.4	22.2
<b>473948</b>	2016 EY <sub>178</sub>		6 11.0 112°40	1°5/11.3	17		<b>34013</b>	2000 OG <sub>15</sub>		6 11.0 260°33	2°0/11.4	18	
5 11	17 46.95	-27 3.3	1.539	2.425	14.4	22.0	5 11	17 44.69	-28 46.7	1.935	2.811	12.3	19.4
5 21	17 39.67	-27 6.3	1.485	2.437	10.3	21.8	5 21	17 38.08	-28 51.6	1.845	2.793	9.0	19.2
5 31	17 29.93	-27 2.7	1.454	2.450	5.8	21.5	5 31	17 29.19	-28 49.7	1.780	2.773	5.3	18.9
6 10	17 18.89	-26 51.4	1.448	2.461	1.7	21.3	6 10	17 18.87	-28 39.3	1.741	2.753	2.1	18.7
6 20	17 7.89	-26 32.8	1.468	2.473	4.5	21.5	6 20	17 8.19	-28 20.2	1.730	2.733	4.3	18.8
6 30	16 58.27	-26 9.5	1.514	2.484	9.0	21.8	6 30	16 58.37	-27 54.1	1.745	2.712	8.3	19.0
7 10	16 51.07	-25 45.3	1.583	2.494	13.0	22.0	7 10	16 50.44	-27 24.5	1.785	2.691	12.1	19.1
7 20	16 46.80	-25 23.5	1.673	2.505	16.4	22.3	7 20	16 45.08	-26 55.1	1.846	2.669	15.4	19.3
<b>166530</b>	2002 RY <sub>8</sub>		6 11.0 252°22	0°1/11.0	18		<b>339486</b>	Raimeux		6 11.0 90°01	3°3/11.5	17	
5 11	17 41.75	-23 20.6	2.027	2.911	11.6	20.3	5 11	17 43.73	-31 17.3	1.962	2.836	12.3	21.1
5 21	17 35.72	-23 22.4	1.951	2.903	8.2	20.0	5 21	17 37.22	-31 46.8	1.898	2.842	9.1	20.9
5 31	17 27.77	-23 22.2	1.898	2.896	4.5	19.8	5 31	17 28.61	-32 8.6	1.859	2.847	5.7	20.7
6 10	17 18.70	-23 19.5	1.873	2.888	0.4	19.5	6 10	17 18.80	-32 20.1	1.846	2.852	3.3	20.5
6 20	17 9.43	-23 14.4	1.875	2.880	3.7	19.7	6 20	17 8.88	-32 20.6	1.860	2.858	4.8	20.6
6 30	17 0.98	-23 8.1	1.903	2.872	7.6	19.9	6 30	16 59.97	-32 11.2	1.900	2.863	8.0	20.8
7 10	16 54.20	-23 2.3	1.957	2.864	11.2	20.1	7 10	16 53.00	-31 55.2	1.965	2.869	11.3	21.1
7 20	16 49.66	-22 58.5	2.032	2.855	14.2	20.3	7 20	16 48.52	-31 35.9	2.051	2.874	14.1	21.3
<b>205635</b>	2001 WA <sub>53</sub>		6 11.0 215°40	0°6/11.1	17		<b>422687</b>	2000 AR <sub>252</sub>		6 11.0 221°66	1°7/10.8	17	
5 11	17 47.10	-24 49.4	1.760	2.641	13.2	22.2	5 11	17 44.32	-18 32.4	1.892	2.773	12.4	22.2
5 21	17 39.80	-24 49.4	1.682	2.633	9.5	22.0	5 21	17 37.63	-18 29.0	1.814	2.765	8.9	22.0
5 31	17 30.09	-24 45.3	1.628	2.624	5.2	21.7	5 31	17 28.86	-18 27.4	1.760	2.756	5.0	21.7
6 10	17 18.93	-24 36.1	1.600	2.615	0.8	21.3	6 10	17 18.83	-18 27.6	1.733	2.746	1.7	21.5
6 20	17 7.51	-24 22.0	1.599	2.604	4.2	21.6	6 20	17 8.55	-18 30.0	1.734	2.736	4.4	21.7
6 30	16 57.10	-24 4.6	1.626	2.593	8.7	21.8	6 30	16 59.12	-18 35.4	1.761	2.725	8.4	21.9
7 10	16 48.77	-23 47.1	1.677	2.581	12.8	22.0	7 10	16 51.46	-18 44.6	1.813	2.714	12.2	22.1
7 20	16 43.20	-23 32.1	1.748	2.569	16.3	22.2	7 20	16 46.21	-18 58.2	1.886	2.702	15.4	22.3
<b>352616</b>	2008 EX <sub>168</sub>		6 11.0 177°76	1°1/10.9	18		<b>36034</b>	1999 OK <sub>3</sub>		6 11.0 353°54	5°8/12.3	18	
5 11	17 40.57	-18 39.7	2.289	3.169	10.6	20.3	5 11	17 43.12	-36 29.6	1.403	2.285	15.8	17.8
5 21	17 34.64	-18 56.0	2.219	3.169	7.5	20.1	5 21	17 37.53	-36 41.4	1.339	2.281	12.2	17.6
5 31	17 27.11	-19 14.5	2.173	3.169	4.2	19.9	5 31	17 29.03	-36 36.7	1.296	2.278	8.4	17.3
6 10	17 18.65	-19 34.7	2.156	3.169	1.2	19.6	6 10	17 18.85	-36 12.2	1.275	2.275	5.9	17.2
6 20	17 10.04	-19 56.1	2.166	3.169	3.5	19.8	6 20	17 8.53	-35 28.1	1.278	2.273	6.9	17.2
6 30	17 2.14	-20 18.5	2.204	3.169	6.9	20.0	6 30	16 59.70	-34 28.5	1.305	2.272	10.5	17.4
7 10	16 55.66	-20 42.0	2.268	3.169	10.1	20.2	7 10	16 53.58	-33 20.8	1.354	2.272	14.3	17.6
7 20	16 51.10	-21 6.9	2.354	3.169	12.8	20.4	7 20	16 50.78	-32 12.0	1.422	2.272	17.8	17.9
<b>42160</b>	2001 BH <sub>73</sub>		6 11.0 252°85	9°3/ 8.3	18		<b>317895</b>	2003 UD <sub>203</sub>		6 11.0 235°09	0°8/11.2	18	
5 11	17 37.25	+ 5 47.8	2.429	3.242	12.2	19.0	5 11	17 42.72	-25 50.7	2.239	3.116	10.9	21.6
5 21	17 32.13	+ 6 48.8	2.371	3.241	10.7	18.9	5 21	17 36.32	-25 49.2	2.156	3.105	7.8	21.4
5 31	17 25.68	+ 7 33.7	2.336	3.239	9.6	18.8	5 31	17 28.08	-25 43.6	2.097	3.093	4.3	21.1
6 10	17 18.51	+ 7 59.0	2.325	3.238	9.3	18.8	6 10	17 18.76	-25 33.3	2.066	3.081	0.9	20.9
6 20	17 11.27	+ 8 2.8	2.338	3.236	9.9	18.8	6 20	17 9.24	-25 18.4	2.064	3.068	3.5	21.0
6 30	17 4.65	+ 7 45.2	2.374	3.235	11.2	18.9	6 30	17 0.47	-25 0.4	2.089	3.055	7.2	21.2
7 10	16 59.25	+ 7 8.2	2.432	3.233	12.8	19.0	7 10	16 53.27	-24 41.6	2.139	3.042	10.5	21.4
7 20	16 55.49	+ 6 15.3	2.509	3.232	14.4	19.2	7 20	16 48.21	-24 24.2	2.212	3.028	13.4	21.6
<b>491863</b>	2013 AW <sub>162</sub>		6 11.0 60°33	1°7/10.5	17		<b>425783</b>	2011 CC <sub>71</sub>		6 11.0 107°15	1°0/11.2	17	
5 11	17 40.16	-20 21.2	2.086	2.971	11.2	20.8	5 11	17 45.22	-25 29.9	1.857	2.738	12.6	21.9
5 21	17 34.29	-19 35.6	2.030	2.982	8.0	20.6	5 21	17 38.11	-25 38.7	1.804	2.755	8.9	21.7
5 31	17 26.84	-18 48.9	1.998	2.994	4.4	20.4	5 31	17 29.00	-25 43.5	1.775	2.771	4.9	21.5
6 10	17 18.61	-18 3.1	1.993	3.006	1.7	20.2	6 10	17 18.84	-25 43.0	1.773	2.787	1.1	21.2
6 20	17 10.45	-17 20.4	2.016	3.018	4.0	20.4	6 20	17 8.73	-25 37.5	1.798	2.803	3.9	21.5
6 30	17 3.20	-16 43.3	2.067	3.030	7.5	20.6	6 30	16 59.74	-25 28.4	1.850	2.818	7.8	21.7
7 10	16 57.54	-16 13.6	2.142	3.042	10.6	20.8	7 10	16 52.74	-25 18.1	1.927	2.833	11.3	22.0
7 20	16 53.89	-15 52.1	2.239	3.054	13.3	21.0	7 20	16 48.22	-25 8.9	2.025	2.847	14.3	22.2
<b>370405</b>	2002 TL <sub>271</sub>		6 11.0 252°07	1°9/11.3	18		<b>327823</b>	2006 WF <sub>22</sub>		6 11.0 299°20	2°4/10.8	17	
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EPHEMERIDES

6 11.0

6 11.1

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>17826</b>	Normanwisdom		6 11.0	96°74	2°5/10.3	18	<b>53483</b>	2000 AC <sub>58</sub>		6 11.0	12°05	3°2/10.8	18
5 11	17 40.01	-17 3.6	2.251	3.131	10.7	18.6	5 11	17 42.20	-15 31.5	1.366	2.262	15.2	18.0
5 21	17 34.10	-16 25.8	2.194	3.143	7.7	18.4	5 21	17 36.55	-15 30.0	1.307	2.263	11.0	17.7
5 31	17 26.74	-15 49.8	2.162	3.155	4.5	18.3	5 31	17 28.42	-15 35.2	1.269	2.265	6.5	17.5
6 10	17 18.63	-15 17.1	2.157	3.166	2.5	18.1	6 10	17 18.85	-15 47.7	1.256	2.266	3.3	17.3
6 20	17 10.56	-14 49.4	2.181	3.178	4.3	18.3	6 20	17 9.12	-16 7.5	1.267	2.269	5.8	17.5
6 30	17 3.31	-14 28.3	2.231	3.189	7.4	18.5	6 30	17 0.57	-16 34.2	1.302	2.271	10.3	17.7
7 10	16 57.51	-14 14.7	2.307	3.200	10.3	18.7	7 10	16 54.30	-17 7.2	1.359	2.274	14.5	18.0
7 20	16 53.57	-14 8.8	2.405	3.211	12.8	18.9	7 20	16 50.91	-17 45.5	1.435	2.277	18.1	18.2
<b>388669</b>	2007 TL <sub>383</sub>		6 11.0	290°45	0°7/10.9	16	<b>181743</b>	1995 XJ <sub>4</sub>		6 11.0	157°08	1°4/10.7	18
5 11	17 40.94	-21 47.7	1.904	2.792	12.0	21.5	5 11	17 39.64	-18 21.3	2.738	3.612	9.2	22.3
5 21	17 35.22	-21 37.8	1.829	2.784	8.6	21.2	5 21	17 33.73	-18 11.1	2.671	3.618	6.6	22.1
5 31	17 27.54	-21 26.7	1.778	2.776	4.7	21.0	5 31	17 26.54	-18 1.9	2.630	3.624	3.7	21.9
6 10	17 18.72	-21 14.5	1.753	2.768	0.8	20.7	6 10	17 18.67	-17 54.2	2.617	3.629	1.5	21.8
6 20	17 9.72	-21 2.0	1.755	2.760	3.9	20.9	6 20	17 10.75	-17 48.6	2.633	3.634	3.3	21.9
6 30	17 1.56	-20 50.7	1.783	2.752	8.0	21.1	6 30	17 3.46	-17 45.8	2.678	3.638	6.1	22.1
7 10	16 55.14	-20 42.2	1.836	2.744	11.7	21.3	7 10	16 57.38	-17 46.3	2.749	3.642	8.8	22.3
7 20	16 51.01	-20 37.9	1.910	2.737	14.8	21.5	7 20	16 52.89	-17 50.6	2.843	3.646	11.1	22.5
<b>122858</b>	2000 SL <sub>132</sub>		6 11.0	255°01	3°5/11.9	18	<b>510826</b>	2013 CB <sub>4</sub>		6 11.0	187°73	0°9/11.3	18
5 11	17 45.57	-33 48.2	1.869	2.738	13.0	20.1	5 11	17 41.25	-26 50.8	2.738	3.608	9.3	22.4
5 21	17 38.70	-33 38.3	1.788	2.727	9.8	19.9	5 21	17 34.95	-26 42.3	2.662	3.607	6.7	22.2
5 31	17 29.49	-33 15.9	1.730	2.716	6.3	19.6	5 31	17 27.23	-26 29.4	2.612	3.606	3.7	22.0
6 10	17 18.91	-32 39.4	1.699	2.705	3.6	19.5	6 10	17 18.74	-26 11.9	2.591	3.605	1.0	21.8
6 20	17 8.17	-31 49.5	1.694	2.693	5.0	19.5	6 20	17 10.18	-25 50.3	2.598	3.602	2.9	22.0
6 30	16 58.54	-30 49.6	1.716	2.681	8.5	19.7	6 30	17 2.30	-25 26.2	2.635	3.600	6.0	22.2
7 10	16 51.03	-29 45.3	1.763	2.669	12.2	19.9	7 10	16 55.74	-25 1.4	2.698	3.597	8.7	22.3
7 20	16 46.25	-28 41.8	1.831	2.657	15.4	20.1	7 20	16 50.91	-24 37.9	2.785	3.594	11.2	22.5
<b>300856</b>	2007 YP <sub>36</sub>		6 11.0	326°06	2°1/10.9	18	<b>402408</b>	2005 YT <sub>142</sub>		6 11.0	173°57	0°0/11.0	16
5 11	17 40.60	-16 8.2	1.900	2.785	12.1	19.9	5 11	17 46.95	-22 51.7	1.519	2.407	14.5	22.3
5 21	17 34.97	-16 24.2	1.827	2.779	8.8	19.7	5 21	17 39.84	-22 58.4	1.455	2.409	10.3	22.1
5 31	17 27.42	-16 45.3	1.779	2.773	5.1	19.5	5 31	17 30.18	-23 3.2	1.413	2.411	5.6	21.8
6 10	17 18.72	-17 11.3	1.756	2.768	2.2	19.3	6 10	17 19.03	-23 5.2	1.397	2.412	0.5	21.8
6 20	17 9.79	-17 41.4	1.761	2.763	4.4	19.4	6 20	17 7.71	-23 4.0	1.407	2.413	4.6	21.4
6 30	17 1.66	-18 15.1	1.792	2.758	8.2	19.6	6 30	16 57.63	-23 1.1	1.444	2.413	9.4	22.0
7 10	16 55.17	-18 51.8	1.847	2.753	11.7	19.8	7 10	16 49.88	-22 58.8	1.503	2.413	13.6	22.3
7 20	16 50.93	-19 30.9	1.924	2.749	14.8	20.0	7 20	16 45.11	-22 59.1	1.582	2.413	17.2	22.5
<b>106325</b>	2000 UE <sub>101</sub>		6 11.0	221°63	3°3/11.6	18	<b>106957</b>	2000 YJ <sub>79</sub>		6 11.0	181°44	1°6/11.5	18
5 11	17 42.64	-34 5.5	2.776	3.632	9.7	20.9	5 11	17 44.14	-28 59.0	2.020	2.895	11.9	19.7
5 21	17 36.11	-34 30.9	2.693	3.623	7.3	20.7	5 21	17 37.38	-28 44.3	1.949	2.896	8.6	19.4
5 31	17 27.94	-34 48.7	2.635	3.614	4.9	20.5	5 31	17 28.67	-28 22.0	1.903	2.896	5.0	19.2
6 10	17 18.78	-34 57.1	2.605	3.605	3.4	20.4	6 10	17 18.88	-27 51.5	1.883	2.896	1.8	19.0
6 20	17 9.43	-34 55.3	2.604	3.595	4.2	20.4	6 20	17 9.04	-27 14.0	1.892	2.896	3.9	19.2
6 30	17 0.74	-34 44.1	2.631	3.585	6.6	20.6	6 30	17 0.21	-26 32.2	1.928	2.895	7.6	19.4
7 10	16 53.44	-34 25.8	2.684	3.574	9.1	20.7	7 10	16 53.23	-25 49.8	1.988	2.894	11.1	19.6
7 20	16 48.05	-34 3.2	2.760	3.563	11.4	20.9	7 20	16 48.63	-25 10.2	2.071	2.893	14.0	19.8
<b>289665</b>	2005 GG <sub>128</sub>		6 11.0	11°77	8°7/10.8	17	<b>396211</b>	2013 YV <sub>18</sub>		6 11.1	291°96	0°0/11.1	18
5 11	17 44.45	-35 20.4	1.046	1.944	18.6	19.0	5 11	17 43.25	-22 40.1	1.624	2.515	13.5	20.7
5 21	17 39.37	-37 9.8	0.999	1.947	14.5	18.8	5 21	17 37.43	-22 49.5	1.533	2.489	9.8	20.4
5 31	17 30.43	-38 45.6	0.970	1.951	10.7	18.6	5 31	17 29.05	-22 58.0	1.465	2.463	5.4	20.1
6 10	17 19.05	-39 57.7	0.963	1.957	8.7	18.5	6 10	17 18.94	-23 4.7	1.422	2.437	0.5	19.7
6 20	17 7.23	-40 39.8	0.977	1.963	10.2	18.6	6 20	17 8.28	-23 8.9	1.405	2.411	4.5	19.9
6 30	16 57.23	-40 52.2	1.012	1.972	13.7	18.8	6 30	16 58.40	-23 11.5	1.414	2.385	9.4	20.2
7 10	16 50.79	-40 41.8	1.066	1.981	17.5	19.0	7 10	16 50.55	-23 14.2	1.446	2.359	13.9	20.4
7 20	16 48.68	-40 17.1	1.136	1.992	21.0	19.3	7 20	16 45.54	-23 19.1	1.497	2.333	17.8	20.5
<b>125708</b>	2001 XD <sub>99</sub>		6 11.0	110°68	1°5/11.0	18	<b>509756</b>	2008 TS <sub>163</sub>		6 11.1	225°79	2°8/11.5	17
5 11	17 44.53	-17 35.7	1.850	2.731	12.6	19.1	5 11	17 44.06	-30 7.9	1.933	2.809	12.4	22.1
5 21	17 37.66	-18 0.1	1.792	2.743	9.0	18.9	5 21	17 37.55	-30 28.0	1.860	2.805	9.1	21.9
5 31	17 28.81	-18 28.1	1.759	2.755	5.0	18.6	5 31	17 28.87	-30 40.9	1.811	2.802	5.5	21.7
6 10	17 18.88	-18 58.8	1.753	2.767	1.5	18.4	6 10	17 18.91	-30 44.6	1.789	2.798	2.8	21.5
6 20	17 8.88	-19 30.8	1.775	2.778	4.2	18.6	6 20	17 8.75	-30 38.4	1.793	2.794	4.5	21.6
6 30	16 59.86	-20 3.7	1.824	2.789	8.1	18.9	6 30	16 59.55	-30 23.7	1.824	2.789	8.1	21.8
7 10	16 52.70	-20 37.1	1.897	2.800	11.6	19.1	7 10	16 52.29	-30 3.5	1.880	2.785	11.6	22.0
7 20	16 47.93	-21 11.2	1.992	2.811	14.6	19.4	7 20	16 47.56	-29 41.5	1.956	2.781	14.6	22.2
<b>420447</b>	2012 DU <sub>47</sub>		6 11.0	65°56	2°8/10.7	17	<b>286234</b>	2001 UE <sub>173</sub>		6 11.1	191°52	3°0/11.4	18
5 11	17 43.43	-17 29.9	1.399	2.294	15.0	21.0	5 11	17 43.10	-30 56.4	2.285	3.155	11.0	21.0
5 21	17 37.26	-17 8.4	1.346	2.303	10.8	20.7	5 21	17 36.64	-31 30.2	2.213	3.154	8.1	20.8
5 31	17 28.71	-16 50.2	1.315	2.311	6.2	20.5	5 31	17 28.30	-31 57.6	2.166	3.153	5.1	20.6
6 10	17 18.87	-16 36.5	1.309	2.320	2.8	20.3	6 10	17 18.85	-32 16.5	2.146	3.152	3.0	20.5
6 20	17 9.02	-16 28.8	1.327	2.329	5.6	20.5	6 20	17 9.22	-32 25.6	2.154	3.151	4.3	20.5
6 30	17 0.46	-16 28.2	1.370	2.338	10.0	20.8	6 30	17 0.39	-32 25.7	2.190	3.150	7.3	20.7
7 10	16 54.20	-16 35.6	1.436	2.347	14.1	21.0	7 10	16 53.20	-32 18.9	2.250	3.149	10.3	20.9
7 20	16 50.76	-16 50.5	1.520	2.356	17.6	21.3	7 20	16 48.21	-32 8.3	2.333	3.147	12.9	21.1
<b>478046</b>	2011 SS <sub>260</sub>		6 11.0	132°00	3°1/11.6	17	<b>506316</b>	2017 OS <sub>3</sub>		6 11.1	280°39	1°8/11.3	17
5 11	17 42.72	-33 11.1	2.744										

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>303728</b>	2005 QY <sub>38</sub>		6 11.1 134°02'	4°5'/12.2	18		<b>375236</b>	2008 FN <sub>116</sub>		6 11.1 217°87'	2°6'/10.5	17	
5 11	17 43.80	-37 24.4	2.328	3.181	11.4	20.7	5 11	17 43.25	-17 38.1	1.770	2.655	12.9	21.3
5 21	17 37.10	-37 40.1	2.260	3.185	8.8	20.6	5 21	17 36.93	-17 9.1	1.698	2.650	9.3	21.1
5 31	17 28.51	-37 44.3	2.217	3.189	6.2	20.4	5 31	17 28.53	-16 41.7	1.651	2.645	5.4	20.8
6 10	17 18.89	-37 34.8	2.200	3.193	4.6	20.3	6 10	17 18.94	-16 17.3	1.629	2.640	2.6	20.6
6 20	17 9.21	-37 11.5	2.210	3.196	5.3	20.4	6 20	17 9.19	-15 57.6	1.635	2.634	5.0	20.8
6 30	17 0.51	-36 36.4	2.248	3.200	7.6	20.5	6 30	17 0.38	-15 44.4	1.666	2.629	9.0	21.0
7 10	16 53.59	-35 53.4	2.310	3.203	10.2	20.7	7 10	16 53.44	-15 38.9	1.722	2.622	12.7	21.2
7 20	16 48.97	-35 6.7	2.394	3.206	12.7	20.9	7 20	16 48.93	-15 41.6	1.797	2.616	16.0	21.4
<b>170905</b>	2004 XJ <sub>31</sub>		6 11.1 153°12'	0°5'/10.9	17		<b>26152</b>	1994 UF		6 11.1 285°55'	8°4'/8.5	18	
5 11	17 46.46	-22 1.2	1.740	2.623	13.2	21.0	5 11	17 42.19	-5 43.8	1.665	2.535	14.4	18.8
5 21	17 39.17	-22 0.6	1.679	2.631	9.4	20.7	5 21	17 36.48	-4 27.7	1.575	2.504	11.6	18.6
5 31	17 29.69	-21 58.7	1.641	2.638	5.1	20.5	5 31	17 28.48	-3 20.5	1.508	2.473	9.2	18.4
6 10	17 19.01	-21 55.0	1.629	2.644	0.6	20.2	6 10	17 18.96	-2 28.1	1.464	2.441	8.4	18.2
6 20	17 8.26	-21 49.7	1.645	2.650	4.2	20.5	6 20	17 8.95	-1 55.2	1.446	2.409	10.0	18.3
6 30	16 58.64	-21 44.2	1.688	2.656	8.5	20.7	6 30	16 59.61	-1 44.9	1.451	2.376	13.0	18.4
7 10	16 51.08	-21 40.4	1.755	2.660	12.3	21.0	7 10	16 52.03	-1 57.2	1.478	2.344	16.5	18.5
7 20	16 46.14	-21 40.0	1.843	2.664	15.5	21.2	7 20	16 46.95	-2 29.7	1.522	2.310	19.7	18.6
<b>510594</b>	2012 SJ <sub>57</sub>		6 11.1 305°07'	3°9'/11.3	18		<b>19156</b>	Heco		6 11.1 128°08'	0°5'/10.9	18	
5 11	17 43.97	-30 50.3	1.596	2.481	14.1	21.0	5 11	17 42.18	-22 11.1	1.823	2.710	12.5	17.7
5 21	17 38.26	-31 28.4	1.502	2.450	10.6	20.7	5 21	17 36.14	-22 2.0	1.756	2.710	8.9	17.5
5 31	17 29.66	-32 0.1	1.429	2.419	6.7	20.4	5 31	17 28.09	-21 51.4	1.713	2.711	4.8	17.2
6 10	17 19.04	-32 21.2	1.381	2.388	4.0	20.2	6 10	17 18.90	-21 39.2	1.697	2.711	0.7	16.9
6 20	17 7.67	-32 28.8	1.358	2.357	5.9	20.2	6 20	17 9.62	-21 26.4	1.707	2.712	4.0	17.2
6 30	16 57.11	-32 23.1	1.360	2.327	10.1	20.4	6 30	17 1.29	-21 14.4	1.743	2.712	8.1	17.4
7 10	16 48.79	-32 7.5	1.384	2.296	14.5	20.5	7 10	16 54.82	-21 5.1	1.804	2.713	11.8	17.7
7 20	16 43.65	-31 46.8	1.428	2.266	18.4	20.7	7 20	16 50.73	-21 0.0	1.886	2.713	15.0	17.9
<b>470734</b>	2008 UD <sub>78</sub>		6 11.1 291°76'	0°2'/11.0	16		<b>99575</b>	2002 FE <sub>25</sub>		6 11.1 3°48'	0°6'/11.0	18	
5 11	17 42.22	-23 44.7	1.737	2.626	12.9	21.4	5 11	17 44.73	-20 49.6	1.512	2.403	14.3	18.7
5 21	17 36.46	-23 25.2	1.648	2.604	9.3	21.1	5 21	17 38.45	-21 57.8	1.447	2.403	10.2	18.5
5 31	17 28.40	-23 1.6	1.584	2.582	5.1	20.8	5 31	17 29.58	-23 10.1	1.405	2.403	5.6	18.2
6 10	17 18.90	-22 34.0	1.545	2.560	0.5	20.4	6 10	17 19.07	-24 22.6	1.388	2.403	0.8	17.8
6 20	17 9.04	-22 3.6	1.532	2.538	4.3	20.6	6 20	17 8.20	-25 31.0	1.399	2.404	4.6	18.1
6 30	17 0.03	-21 33.1	1.545	2.516	8.8	20.8	6 30	16 58.36	-26 32.7	1.435	2.406	9.3	18.4
7 10	16 52.94	-21 5.5	1.582	2.494	13.0	21.0	7 10	16 50.76	-27 27.2	1.494	2.408	13.5	18.7
7 20	16 48.45	-20 43.4	1.639	2.472	16.7	21.2	7 20	16 46.13	-28 15.5	1.574	2.410	17.1	18.9
<b>367095</b>	2006 QU <sub>165</sub>		6 11.1 276°04'	1°4'/10.8	17		<b>257497</b>	1995 VL <sub>13</sub>		6 11.1 214°59'	2°1'/10.7	17	
5 11	17 43.78	-21 19.1	1.551	2.443	14.0	21.1	5 11	17 44.05	-18 15.3	1.772	2.657	12.9	21.1
5 21	17 37.73	-20 53.4	1.469	2.425	10.1	20.8	5 21	17 37.54	-17 59.8	1.700	2.652	9.3	20.9
5 31	17 29.15	-20 25.3	1.408	2.406	5.6	20.5	5 31	17 28.89	-17 45.8	1.651	2.646	5.3	20.6
6 10	17 18.98	-19 55.8	1.373	2.388	1.4	20.2	6 10	17 19.00	-17 34.3	1.628	2.640	2.1	20.4
6 20	17 8.43	-19 26.5	1.364	2.369	4.9	20.4	6 20	17 8.91	-17 26.0	1.632	2.634	4.7	20.6
6 30	16 58.84	-19 0.3	1.380	2.350	9.8	20.6	6 30	16 59.75	-17 22.4	1.663	2.627	8.8	20.8
7 10	16 51.39	-18 40.1	1.419	2.330	14.3	20.8	7 10	16 52.48	-17 24.5	1.717	2.620	12.7	21.0
7 20	16 46.79	-18 27.7	1.478	2.311	18.1	21.0	7 20	16 47.70	-17 32.8	1.792	2.612	16.0	21.2
<b>505585</b>	2014 BC <sub>61</sub>		6 11.1 178°28'	4°5'/10.5	18		<b>323210</b>	2003 SO <sub>25</sub>		6 11.1 312°35'	4°2'/11.6	17	
5 11	17 41.38	-8 8.1	2.489	3.347	10.6	22.2	5 11	17 44.63	-31 40.3	1.293	2.186	16.2	20.5
5 21	17 35.06	-7 58.0	2.420	3.349	8.1	22.0	5 21	17 38.92	-32 1.3	1.222	2.174	12.1	20.2
5 31	17 27.32	-7 56.0	2.377	3.351	5.7	21.9	5 31	17 30.03	-32 11.1	1.171	2.162	7.6	20.0
6 10	17 18.79	-8 3.4	2.360	3.351	4.5	21.8	6 10	17 19.13	-32 6.1	1.143	2.151	4.3	19.7
6 20	17 10.18	-8 20.5	2.372	3.352	5.5	21.8	6 20	17 7.81	-31 45.0	1.139	2.140	6.3	19.8
6 30	17 2.20	-8 47.0	2.412	3.351	7.9	22.0	6 30	16 57.87	-31 10.6	1.158	2.130	10.9	20.0
7 10	16 55.51	-9 21.9	2.477	3.350	10.4	22.2	7 10	16 50.72	-30 28.9	1.198	2.120	15.5	20.3
7 20	16 50.54	-10 3.7	2.565	3.349	12.7	22.3	7 20	16 47.18	-29 46.1	1.257	2.110	19.5	20.5
<b>325053</b>	2008 CV <sub>178</sub>		6 11.1 121°29'	1°8'/10.8	17		<b>430080</b>	2013 SZ <sub>50</sub>		6 11.1 279°62'	1°2'/10.9	17	
5 11	17 45.23	-18 53.1	1.713	2.597	13.3	21.8	5 11	17 43.62	-20 8.1	1.636	2.526	13.5	21.7
5 21	17 38.21	-18 43.1	1.659	2.611	9.5	21.6	5 21	17 37.61	-20 6.5	1.549	2.504	9.8	21.4
5 31	17 29.13	-18 34.6	1.628	2.624	5.3	21.4	5 31	17 29.14	-20 5.7	1.485	2.482	5.4	21.1
6 10	17 18.97	-18 27.8	1.623	2.637	1.8	21.2	6 10	17 19.05	-20 5.6	1.446	2.460	1.3	20.7
6 20	17 8.83	-18 23.6	1.646	2.649	4.5	21.4	6 20	17 8.48	-20 6.5	1.433	2.438	4.7	20.9
6 30	16 59.83	-18 22.9	1.695	2.660	8.6	21.7	6 30	16 58.73	-20 9.2	1.446	2.415	9.4	21.1
7 10	16 52.85	-18 26.8	1.768	2.672	12.3	21.9	7 10	16 50.97	-20 15.3	1.482	2.393	13.8	21.3
7 20	16 48.39	-18 35.8	1.862	2.682	15.4	22.1	7 20	16 45.97	-20 25.8	1.538	2.370	17.6	21.5
<b>39336</b>	Mariacapria		6 11.1 64°46'	0°6'/10.9	18		<b>392409</b>	2010 LW <sub>97</sub>		6 11.1 323°12'	7°0'/9.7	18	
5 11	17 40.18	-21 42.5	2.131	3.015	11.1	20.0	5 11	17 38.30	-8 7.2	1.586	2.470	14.2	20.1
5 21	17 34.43	-21 36.7	2.071	3.024	7.8	19.8	5 21	17 33.90	-7 27.7	1.488	2.429	11.2	19.8
5 31	17 27.04	-21 30.0	2.035	3.032	4.2	19.6	5 31	17 27.18	-6 58.1	1.411	2.390	8.3	19.5
6 10	17 18.77	-21 22.6	2.026	3.041	0.7	19.4	6 10	17 18.87	-6 42.8	1.359	2.350	7.0	19.3
6 20	17 10.48	-21 15.0	2.045	3.050	3.5	19.6	6 20	17 9.93	-6 45.0	1.330	2.312	8.6	19.3
6 30	17 3.03	-21 8.3	2.091	3.059	7.1	19.9	6 30	17 1.57	-7 6.4	1.325	2.273	12.1	19.4
7 10	16 57.14	-21 3.8	2.162	3.068	10.3	20.1	7 10	16 54.94	-7 46.3	1.340	2.236	16.0	19.6
7 20	16 53.27	-21 2.4	2.255	3.077	13.0	20.3	7 20	16 50.86	-8 42.1	1.374	2.199	19.6	19.7
<b>174805</b>	2003 WN <sub>192</sub>		6 11.1 251°17'	7°8'/12.2	17		<b>398554</b>	2011 UC <sub>388</sub>		6 11.1 158°68'	2°3'/11.2	18	
5 11	17 50.48	-41 35.2	1.696	2.5									

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>343952</b>	2011 <i>KM</i> <sub>30</sub>		6 11.1 26°32'	1°11/11.4	17		<b>50375</b>	2000 <i>CJ</i> <sub>86</sub>		6 11.1 161°77'	0°1/11.1	18	
5 11	17 42.90	-28 11.9	1.528	2.419	14.2	19.7	5 11	17 45.28	-22 34.4	1.884	2.765	12.4	19.9
5 21	17 36.87	-27 33.7	1.469	2.425	10.2	19.5	5 21	17 38.30	-22 39.8	1.819	2.770	8.8	19.7
5 31	17 28.52	-26 46.0	1.433	2.430	5.7	19.3	5 31	17 29.27	-22 43.7	1.778	2.775	4.8	19.5
6 10	17 18.97	-25 50.0	1.422	2.436	1.3	19.0	6 10	17 19.08	-22 45.4	1.764	2.779	0.5	19.1
6 20	17 9.48	-24 48.7	1.437	2.443	4.3	19.2	6 20	17 8.79	-22 44.9	1.777	2.782	3.9	19.4
6 30	17 1.31	-23 46.6	1.477	2.450	8.9	19.5	6 30	16 59.50	-22 43.2	1.818	2.785	8.0	19.7
7 10	16 55.40	-22 48.9	1.540	2.457	12.9	19.8	7 10	16 52.10	-22 41.9	1.884	2.788	11.6	19.9
7 20	16 52.27	-21 59.1	1.624	2.465	16.4	20.0	7 20	16 47.14	-22 42.8	1.970	2.790	14.7	20.1
<b>435844</b>	2008 <i>WW</i> <sub>112</sub>		6 11.1 157°80'	0°6/11.1	18		<b>509317</b>	2006 <i>WO</i> <sub>58</sub>		6 11.1 220°84'	1°2/11.3	18	
5 11	17 43.07	-23 56.7	2.027	2.908	11.7	20.9	5 11	17 41.55	-27 23.4	2.717	3.586	9.4	23.2
5 21	17 36.68	-24 14.5	1.959	2.911	8.3	20.7	5 21	17 35.31	-27 29.2	2.633	3.577	6.8	23.0
5 31	17 28.37	-24 30.4	1.916	2.913	4.5	20.4	5 31	17 27.56	-27 30.8	2.575	3.568	3.9	22.8
6 10	17 18.97	-24 43.1	1.900	2.915	0.7	20.1	6 10	17 18.92	-27 27.5	2.545	3.558	1.3	22.6
6 20	17 9.43	-24 52.2	1.912	2.917	3.6	20.4	6 20	17 10.12	-27 19.1	2.544	3.548	3.1	22.7
6 30	17 0.76	-24 58.1	1.951	2.919	7.5	20.6	6 30	17 1.94	-27 6.6	2.572	3.537	6.1	22.9
7 10	16 53.81	-25 2.3	2.015	2.920	10.9	20.8	7 10	16 55.07	-26 51.8	2.627	3.525	9.0	23.0
7 20	16 49.14	-25 6.6	2.100	2.922	13.9	21.0	7 20	16 49.98	-26 36.7	2.704	3.514	11.4	23.2
<b>279352</b>	2010 <i>AN</i> <sub>12</sub>		6 11.1 187°49'	4°4/10.9	18		<b>10938</b>	Lorenzaleyv		6 11.1 324°65'	9°8/12.1	18	
5 11	17 42.84	-9 29.9	2.070	2.936	12.1	20.8	5 11	17 49.13	-51 7.1	2.267	3.061	13.6	16.8
5 21	17 36.39	-9 35.2	2.000	2.936	9.1	20.7	5 21	17 41.77	-52 21.1	2.200	3.057	11.9	16.7
5 31	17 28.18	-9 49.9	1.955	2.936	6.1	20.5	5 31	17 31.48	-53 16.5	2.154	3.052	10.5	16.6
6 10	17 18.95	-10 14.8	1.936	2.935	4.4	20.4	6 10	17 19.32	-53 47.6	2.131	3.048	9.8	16.5
6 20	17 9.57	-10 49.5	1.945	2.933	5.7	20.4	6 20	17 6.74	-53 51.4	2.132	3.044	10.1	16.5
6 30	17 0.95	-11 32.9	1.981	2.931	8.6	20.6	6 30	16 55.34	-53 29.0	2.156	3.040	11.3	16.6
7 10	16 53.87	-12 23.6	2.042	2.929	11.7	20.8	7 10	16 46.46	-52 45.7	2.203	3.036	12.9	16.7
7 20	16 48.86	-13 19.5	2.125	2.927	14.4	21.0	7 20	16 40.87	-51 48.1	2.268	3.032	14.7	16.8
<b>504598</b>	2008 <i>UQ</i> <sub>113</sub>		6 11.1 169°65'	0°5/11.2	17		<b>481129</b>	2005 <i>UV</i> <sub>10</sub>		6 11.1 251°08'	3°0/11.4	18	
5 11	17 43.04	-25 0.9	2.305	3.180	10.7	22.6	5 11	17 42.39	-31 13.3	2.362	3.231	10.7	21.2
5 21	17 36.43	-24 56.0	2.235	3.184	7.6	22.4	5 21	17 36.18	-31 47.1	2.285	3.225	7.9	21.0
5 31	17 28.15	-24 47.4	2.191	3.187	4.1	22.2	5 31	17 28.14	-32 14.9	2.233	3.219	5.0	20.8
6 10	17 18.95	-24 35.0	2.175	3.189	0.6	21.9	6 10	17 18.99	-32 34.3	2.208	3.213	3.0	20.7
6 20	17 9.68	-24 19.3	2.187	3.191	3.3	22.1	6 20	17 9.60	-32 44.1	2.211	3.207	4.3	20.7
6 30	17 1.24	-24 1.6	2.227	3.193	6.8	22.4	6 30	17 0.95	-32 44.9	2.241	3.201	7.2	20.9
7 10	16 54.35	-23 44.1	2.293	3.194	10.0	22.6	7 10	16 53.86	-32 38.8	2.297	3.195	10.1	21.1
7 20	16 49.50	-23 28.7	2.381	3.195	12.7	22.8	7 20	16 48.90	-32 28.5	2.374	3.189	12.7	21.2
<b>490734</b>	2010 <i>RO</i> <sub>174</sub>		6 11.1 257°57'	6°7/11.9	18		<b>169847</b>	2002 <i>RF</i> <sub>15</sub>		6 11.1 326°17'	5°9/9.9	16	
5 11	17 45.77	-44 2.7	2.538	3.362	11.5	21.8	5 11	17 38.34	-11 14.2	1.497	2.389	14.4	20.1
5 21	17 38.81	-44 50.4	2.457	3.350	9.5	21.6	5 21	17 33.83	-10 30.8	1.420	2.370	10.9	19.8
5 31	17 29.64	-45 24.7	2.399	3.339	7.7	21.5	5 31	17 27.07	-9 55.1	1.365	2.351	7.6	19.6
6 10	17 19.11	-45 41.7	2.367	3.327	6.8	21.4	6 10	17 18.89	-9 31.0	1.334	2.333	5.9	19.4
6 20	17 8.25	-45 39.6	2.361	3.314	7.2	21.4	6 20	17 10.38	-9 21.3	1.327	2.316	7.7	19.5
6 30	16 58.25	-45 19.3	2.381	3.302	8.8	21.5	6 30	17 2.74	-9 27.4	1.343	2.299	11.3	19.6
7 10	16 50.08	-44 44.4	2.425	3.289	10.9	21.6	7 10	16 57.00	-9 49.1	1.381	2.284	15.1	19.8
7 20	16 44.42	-43 59.8	2.491	3.277	12.9	21.7	7 20	16 53.86	-10 24.2	1.437	2.269	18.6	20.0
<b>470629</b>	2008 <i>SH</i> <sub>39</sub>		6 11.1 325°55'	8°2/9.1	16		<b>264394</b>	2000 <i>EW</i> <sub>21</sub>		6 11.1 25°97'	21°2/11.7	17	
5 11	17 37.52	-8 46.0	1.272	2.169	16.1	20.4	5 11	18 5.90	-59 51.0	1.116	1.910	24.7	19.4
5 21	17 33.61	-7 37.9	1.192	2.141	12.7	20.1	5 21	17 58.32	-62 40.4	1.077	1.911	23.0	19.3
5 31	17 27.10	-6 39.1	1.133	2.114	9.5	19.8	5 31	17 42.60	-64 51.7	1.053	1.913	21.8	19.2
6 10	17 18.88	-5 56.0	1.095	2.087	8.2	19.7	6 10	17 20.54	-66 6.2	1.044	1.915	21.2	19.1
6 20	17 10.13	-5 34.0	1.079	2.061	10.1	19.7	6 20	16 56.81	-66 13.5	1.051	1.918	21.5	19.2
6 30	17 2.26	-5 35.9	1.085	2.036	13.9	19.8	6 30	16 37.29	-65 18.1	1.072	1.920	22.5	19.2
7 10	16 56.53	-6 1.5	1.110	2.013	18.0	20.0	7 10	16 25.71	-63 37.3	1.107	1.923	24.0	19.4
7 20	16 53.77	-6 47.4	1.151	1.991	21.8	20.2	7 20	16 22.65	-61 30.2	1.155	1.926	25.6	19.5
<b>430986</b>	2005 <i>WS</i> <sub>157</sub>		6 11.1 263°52'	2°2/10.9	18		<b>44190</b>	1998 <i>KD</i> <sub>63</sub>		6 11.1 52°31'	3°0/11.6	18	
5 11	17 43.58	-16 26.4	1.871	2.752	12.5	20.9	5 11	17 46.00	-29 44.2	1.244	2.139	16.5	18.1
5 21	17 37.30	-16 37.4	1.784	2.734	9.1	20.7	5 21	17 39.47	-29 51.6	1.199	2.154	12.0	17.9
5 31	17 28.87	-16 53.1	1.722	2.716	5.3	20.4	5 31	17 30.07	-29 48.6	1.175	2.170	7.0	17.7
6 10	17 19.05	-17 13.6	1.686	2.698	2.2	20.1	6 10	17 19.17	-29 33.4	1.174	2.186	3.1	17.5
6 20	17 8.82	-17 38.3	1.677	2.679	4.6	20.3	6 20	17 8.41	-29 6.8	1.197	2.202	5.5	17.6
6 30	16 59.31	-18 6.9	1.695	2.659	8.7	20.5	6 30	16 59.36	-28 32.6	1.245	2.218	10.1	18.0
7 10	16 51.51	-18 39.2	1.738	2.640	12.5	20.7	7 10	16 53.15	-27 56.3	1.314	2.235	14.4	18.3
7 20	16 46.11	-19 14.8	1.801	2.620	15.9	20.8	7 20	16 50.28	-27 22.3	1.401	2.252	18.0	18.5
<b>358785</b>	2008 <i>DZ</i> <sub>84</sub>		6 11.1 168°77'	2°7/10.5	16		<b>207618</b>	2006 <i>RF</i> <sub>45</sub>		6 11.1 21°51'	1°5/10.8	18	
5 11	17 39.20	-13 36.7	2.847	3.716	9.1	22.2	5 11	17 40.41	-19 7.7	2.018	2.903	11.5	20.3
5 21	17 33.42	-13 20.6	2.779	3.720	6.7	22.1	5 21	17 34.74	-18 57.9	1.951	2.904	8.2	20.1
5 31	17 26.43	-13 8.3	2.736	3.723	4.2	21.9	5 31	17 27.32	-18 49.1	1.909	2.905	4.6	19.9
6 10	17 18.79	-13 0.6	2.722	3.726	2.7	21.8	6 10	17 18.92	-18 41.9	1.892	2.906	1.6	19.7
6 20	17 11.10	-12 58.1	2.737	3.728	4.0	21.9	6 20	17 10.42	-18 37.0	1.904	2.907	4.0	19.9
6 30	17 3.98	-13 1.4	2.780	3.731	6.4	22.1	6 30	17 2.75	-18 35.2	1.941	2.908	7.6	20.1
7 10	16 57.97	-13 10.4	2.849	3.732	8.9	22.2	7 10	16 56.68	-18 37.6	2.004	2.909	11.0	20.3
7 20	16 53.47	-13 24.9	2.941	3.733	11.0	22.4	7 20	16 52.71	-18 44.5	2.088	2.910	13.9	20.5
<b>84552</b>	2002 <i>UT</i> <sub>34</sub>		6 11.1 203°31'	0°7/10.9	18		<b>233858</b>	2008 <i>V</i>					

EPHEMERIDES

6 11.1

6 11.1

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>142009</b>	2002 <i>PS</i> <sub>163</sub>		6 11.1 234°88	2°5/10.7	18		<b>441954</b>	2010 <i>LY</i> <sub>72</sub>		6 11.1 307°46	4°3/11.7	18	
5 11	17 44.48	-16 32.3	1.929	2.807	12.3	21.0	5 11	17 42.49	-34 22.8	2.012	2.882	12.3	20.8
5 21	17 37.84	-16 22.9	1.846	2.794	8.9	20.8	5 21	17 36.63	-34 49.6	1.930	2.867	9.3	20.5
5 31	17 29.12	-16 16.7	1.786	2.779	5.3	20.5	5 31	17 28.56	-35 6.8	1.872	2.853	6.3	20.3
6 10	17 19.12	-16 14.2	1.754	2.764	2.5	20.3	6 10	17 19.12	-35 11.5	1.838	2.839	4.4	20.2
6 20	17 8.82	-16 16.2	1.749	2.749	4.8	20.4	6 20	17 9.38	-35 2.6	1.832	2.825	5.4	20.2
6 30	16 59.28	-16 23.2	1.771	2.732	8.6	20.6	6 30	17 0.50	-34 41.4	1.851	2.811	8.4	20.4
7 10	16 51.45	-16 36.0	1.818	2.715	12.4	20.8	7 10	16 53.51	-34 11.5	1.895	2.798	11.6	20.5
7 20	16 45.96	-16 54.5	1.886	2.697	15.6	21.0	7 20	16 49.06	-33 37.0	1.959	2.785	14.6	20.7
<b>390755</b>	2003 <i>SV</i> <sub>312</sub>		6 11.1 217°34	5°3/11.8	17		<b>285779</b>	2000 <i>VH</i> <sub>54</sub>		6 11.1 215°93	1°6/10.6	18	
5 11	17 46.62	-37 35.8	2.194	3.046	12.1	21.6	5 11	17 43.24	-20 9.4	2.289	3.165	10.7	21.1
5 21	17 39.46	-38 17.2	2.118	3.040	9.4	21.4	5 21	17 36.62	-19 30.0	2.208	3.157	7.7	20.9
5 31	17 30.03	-38 47.4	2.065	3.034	6.9	21.2	5 31	17 28.33	-18 48.8	2.153	3.148	4.3	20.6
6 10	17 19.22	-39 2.8	2.038	3.027	5.3	21.1	6 10	17 19.10	-18 7.3	2.126	3.138	1.6	20.4
6 20	17 8.14	-39 1.7	2.039	3.020	6.1	21.1	6 20	17 9.74	-17 27.5	2.127	3.128	3.9	20.6
6 30	16 57.98	-38 45.2	2.066	3.012	8.5	21.3	6 30	17 1.14	-16 51.5	2.157	3.117	7.4	20.8
7 10	16 49.76	-38 17.1	2.118	3.005	11.3	21.4	7 10	16 54.04	-16 21.5	2.213	3.106	10.6	21.0
7 20	16 44.13	-37 42.1	2.191	2.996	13.9	21.6	7 20	16 48.93	-15 58.9	2.291	3.094	13.4	21.1
<b>5101</b>	Akhmerov		6 11.1 252°59	4°1/ 9.9	18		<b>423635</b>	2005 <i>WR</i> <sub>203</sub>		6 11.1 134°79	11°3/ 8.3	17	
5 11	17 39.36	-12 12.3	2.300	3.174	10.8	17.4	5 11	17 42.13	+13 48.1	2.492	3.249	13.5	21.8
5 21	17 33.84	-11 30.0	2.223	3.165	8.1	17.2	5 21	17 35.53	+15 3.2	2.456	3.266	12.3	21.8
5 31	17 26.81	-10 52.1	2.172	3.155	5.4	17.0	5 31	17 27.61	+15 57.1	2.442	3.282	11.5	21.7
6 10	17 18.90	-10 20.9	2.147	3.145	4.1	16.9	6 10	17 19.02	+16 26.2	2.451	3.298	11.3	21.7
6 20	17 10.86	-9 58.4	2.149	3.135	5.5	17.0	6 20	17 10.48	+16 29.1	2.482	3.313	11.7	21.8
6 30	17 3.47	-9 45.8	2.179	3.124	8.2	17.1	6 30	17 2.70	+16 6.8	2.535	3.327	12.6	21.9
7 10	16 57.42	-9 43.5	2.233	3.114	11.0	17.3	7 10	16 56.26	+15 22.3	2.608	3.341	13.7	22.0
7 20	16 53.17	-9 51.2	2.308	3.104	13.6	17.5	7 20	16 51.57	+14 20.0	2.698	3.353	14.8	22.1
<b>56927</b>	2000 <i>RT</i> <sub>22</sub>		6 11.1 263°38	4°2/ 9.9	18		<b>30817</b>	1990 <i>QN</i> <sub>9</sub>		6 11.1 163°48	2°2/10.8	18	
5 11	17 39.15	-12 11.2	2.197	3.073	11.1	19.1	5 11	17 45.90	-17 48.2	1.612	2.497	13.9	18.1
5 21	17 33.72	-11 29.3	2.126	3.069	8.3	18.9	5 21	17 38.97	-17 40.9	1.549	2.501	10.0	17.9
5 31	17 26.74	-10 52.3	2.080	3.064	5.6	18.8	5 31	17 29.76	-17 36.3	1.509	2.505	5.7	17.6
6 10	17 18.90	-10 22.5	2.061	3.060	4.2	18.7	6 10	17 19.25	-17 34.9	1.495	2.508	2.3	17.4
6 20	17 10.95	-10 1.9	2.069	3.055	5.6	18.8	6 20	17 8.62	-17 37.1	1.508	2.511	5.0	17.6
6 30	17 3.72	-9 51.6	2.103	3.050	8.4	18.9	6 30	16 59.10	-17 43.7	1.547	2.513	9.3	17.9
7 10	16 57.87	-9 51.9	2.162	3.046	11.2	19.1	7 10	16 51.69	-17 55.4	1.610	2.514	13.2	18.1
7 20	16 53.89	-10 2.1	2.241	3.041	13.8	19.3	7 20	16 46.98	-18 12.5	1.692	2.516	16.6	18.3
<b>381582</b>	2008 <i>UO</i> <sub>231</sub>		6 11.1 225°39	0°5/10.9	18		<b>72328</b>	2001 <i>BP</i> <sub>59</sub>		6 11.1 201°70	0°5/11.2	18	
5 11	17 43.00	-22 23.8	2.259	3.136	10.8	21.6	5 11	17 46.23	-25 21.6	1.841	2.721	12.7	19.9
5 21	17 36.53	-22 7.4	2.176	3.125	7.7	21.4	5 21	17 39.13	-25 8.2	1.767	2.717	9.1	19.6
5 31	17 28.31	-21 48.7	2.118	3.114	4.2	21.2	5 31	17 29.83	-24 49.6	1.717	2.713	5.0	19.4
6 10	17 19.06	-21 28.0	2.088	3.103	0.7	20.9	6 10	17 19.27	-24 25.6	1.693	2.708	0.7	19.0
6 20	17 9.63	-21 6.2	2.086	3.091	3.5	21.1	6 20	17 8.55	-23 57.1	1.698	2.703	4.0	19.3
6 30	17 0.94	-20 45.0	2.113	3.078	7.2	21.3	6 30	16 58.86	-23 26.6	1.729	2.697	8.3	19.5
7 10	16 53.77	-20 26.4	2.165	3.065	10.5	21.5	7 10	16 51.15	-22 57.3	1.785	2.690	12.1	19.7
7 20	16 48.65	-20 11.9	2.240	3.051	13.4	21.7	7 20	16 46.02	-22 32.0	1.862	2.683	15.4	19.9
<b>275956</b>	2001 <i>VM</i> <sub>93</sub>		6 11.1 194°89	2°1/10.9	17		<b>508333</b>	2015 <i>ML</i> <sub>52</sub>		6 11.1 232°72	8°5/ 8.6	18	
5 11	17 44.04	-15 58.8	2.322	3.193	10.8	21.4	5 11	17 39.13	+ 3 20.7	2.464	3.285	11.9	21.5
5 21	17 37.18	-16 7.5	2.246	3.190	7.8	21.2	5 21	17 33.61	+ 4 15.8	2.394	3.275	10.2	21.3
5 31	17 28.64	-16 19.9	2.195	3.187	4.5	21.0	5 31	17 26.68	+ 4 56.8	2.347	3.265	8.9	21.2
6 10	17 19.10	-16 35.9	2.172	3.183	2.1	20.8	6 10	17 18.95	+ 5 20.1	2.325	3.254	8.5	21.2
6 20	17 9.38	-16 55.2	2.178	3.178	4.0	21.0	6 20	17 11.08	+ 5 23.9	2.328	3.243	9.2	21.2
6 30	17 0.35	-17 17.7	2.213	3.172	7.3	21.2	6 30	17 3.79	+ 5 7.7	2.356	3.232	10.7	21.3
7 10	16 52.77	-17 43.2	2.273	3.166	10.4	21.3	7 10	16 57.71	+ 4 33.4	2.405	3.220	12.5	21.4
7 20	16 47.15	-18 11.8	2.357	3.159	13.1	21.5	7 20	16 53.29	+ 3 43.7	2.475	3.208	14.3	21.5
<b>243287</b>	2008 <i>CA</i> <sub>190</sub>		6 11.1 54°53	7°0/12.0	18		<b>336771</b>	2011 <i>BE</i> <sub>40</sub>		6 11.1 296°74	17°3/13.9	18	
5 11	17 43.47	- 0 38.8	1.973	2.815	13.6	19.5	5 11	17 48.20	+13 1.5	1.124	1.940	23.3	19.8
5 21	17 36.74	- 1 6.1	1.922	2.832	10.9	19.4	5 21	17 41.43	+13 13.1	1.062	1.931	20.9	19.6
5 31	17 28.34	- 1 50.9	1.895	2.850	8.4	19.2	5 31	17 31.47	+12 40.9	1.016	1.922	18.7	19.4
6 10	17 19.07	- 2 53.3	1.893	2.867	7.0	19.2	6 10	17 19.46	+11 16.5	0.987	1.913	17.4	19.3
6 20	17 9.81	- 4 11.5	1.918	2.885	7.6	19.3	6 20	17 6.97	+ 8 58.7	0.977	1.904	17.6	19.3
6 30	17 1.45	- 5 42.1	1.971	2.903	9.7	19.4	6 30	16 55.77	+ 5 54.7	0.989	1.895	19.3	19.3
7 10	16 54.74	- 7 20.7	2.049	2.922	12.2	19.6	7 10	16 47.30	+ 2 18.9	1.020	1.887	22.0	19.5
7 20	16 50.12	- 9 3.1	2.149	2.940	14.6	19.8	7 20	16 42.41	- 1 32.4	1.069	1.879	25.0	19.7
<b>413464</b>	2005 <i>EL</i> <sub>260</sub>		6 11.1 67°87	3°4/11.4	16		<b>100718</b>	1998 <i>BR</i> <sub>24</sub>		6 11.1 109°69	1°8/10.8	18	
5 11	17 47.95	-29 28.2	1.344	2.233	15.9	21.6	5 11	17 44.32	-18 11.3	1.978	2.857	12.0	19.6
5 21	17 40.78	-30 6.2	1.301	2.252	11.6	21.3	5 21	17 37.38	-18 1.3	1.927	2.876	8.6	19.4
5 31	17 30.80	-30 35.4	1.279	2.272	6.9	21.1	5 31	17 28.70	-17 53.0	1.901	2.896	4.8	19.2
6 10	17 19.33	-30 52.3	1.281	2.291	3.5	21.0	6 10	17 19.15	-17 46.9	1.902	2.914	1.9	19.0
6 20	17 7.94	-30 55.7	1.309	2.311	5.6	21.2	6 20	17 9.67	-17 43.7	1.931	2.932	4.1	19.2
6 30	16 58.19	-30 47.7	1.361	2.330	9.9	21.4	6 30	17 1.19	-17 44.0	1.987	2.950	7.7	19.5
7 10	16 51.20	-30 32.9	1.435	2.350	13.9	21.7	7 10	16 54.47	-17 48.7	2.068	2.967	11.0	19.7
7 20	16 47.52	-30 15.8	1.529	2.369	17.3	22.0	7 20	16 49.95	-17 58.1	2.171	2.984	13.8	19.9
<b>415780</b>	2000 <i>WO</i> <sub>10</sub>		6 11.1 178°38	0°5/11.1	15		<b>191125</b>						

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>95142</b>	2002 <i>AF</i> <sub>163</sub>		6 11.1 221°52	4°2/10.5	17		<b>84935</b>	2003 <i>WT</i> <sub>87</sub>		6 11.1 179°08	1°1/10.9	18	
5 11	17 45.05	-13 10.3	1.720	2.598	13.5	19.9	5 11	17 45.47	-20 29.9	1.949	2.828	12.2	20.6
5 21	17 38.37	-12 46.7	1.644	2.590	10.1	19.7	5 21	17 38.43	-20 19.6	1.880	2.830	8.7	20.4
5 31	17 29.48	-12 29.2	1.592	2.580	6.4	19.5	5 31	17 29.42	-20 8.9	1.835	2.831	4.8	20.2
6 10	17 19.25	-12 19.6	1.566	2.571	4.2	19.3	6 10	17 19.29	-19 58.0	1.817	2.832	1.2	19.9
6 20	17 8.76	-12 19.2	1.567	2.560	6.1	19.4	6 20	17 9.04	-19 47.5	1.828	2.831	4.0	20.1
6 30	16 59.17	-12 28.9	1.593	2.549	9.9	19.6	6 30	16 59.74	-19 38.9	1.866	2.831	8.0	20.4
7 10	16 51.47	-12 48.5	1.644	2.537	13.6	19.8	7 10	16 52.24	-19 33.6	1.929	2.829	11.6	20.6
7 20	16 46.30	-13 17.0	1.714	2.525	16.9	20.0	7 20	16 47.08	-19 32.9	2.013	2.827	14.6	20.8
<b>253892</b>	2004 <i>BF</i> <sub>78</sub>		6 11.1 65°06	1°8/10.9	17		<b>419662</b>	2010 <i>TV</i> <sub>102</sub>		6 11.1 321°62	4°5/11.2	17	
5 11	17 44.16	-18 33.8	1.435	2.329	14.8	20.2	5 11	17 44.75	-29 48.0	1.235	2.133	16.4	20.6
5 21	17 37.89	-18 38.4	1.382	2.338	10.6	20.0	5 21	17 39.29	-30 46.9	1.165	2.120	12.2	20.3
5 31	17 29.22	-18 46.1	1.351	2.348	5.9	19.8	5 31	17 30.48	-31 40.1	1.116	2.108	7.7	20.0
6 10	17 19.22	-18 56.6	1.344	2.358	1.8	19.5	6 10	17 19.43	-32 21.6	1.089	2.097	4.6	19.8
6 20	17 9.17	-19 9.6	1.363	2.367	4.9	19.8	6 20	17 7.76	-32 47.4	1.086	2.086	6.8	19.9
6 30	17 0.36	-19 25.5	1.407	2.377	9.5	20.0	6 30	16 57.36	-32 57.1	1.105	2.076	11.4	20.1
7 10	16 53.84	-19 44.7	1.473	2.387	13.6	20.3	7 10	16 49.83	-32 54.7	1.146	2.067	16.1	20.3
7 20	16 50.15	-20 7.4	1.559	2.397	17.1	20.6	7 20	16 46.07	-32 45.4	1.203	2.058	20.1	20.6
<b>180962</b>	2005 <i>MW</i> <sub>35</sub>		6 11.1 323°48	1°0/11.2	18	19.3	<b>195489</b>	2002 <i>GH</i> <sub>150</sub>		6 11.1 234°36	5°9/9.5	18	
5 11	17 41.45	-25 10.0	1.264	2.169	15.6	19.3	5 11	17 41.37	-7 50.8	2.131	2.995	11.9	20.4
5 21	17 36.65	-25 16.5	1.189	2.151	11.3	19.0	5 21	17 35.40	-6 56.1	2.055	2.984	9.3	20.3
5 31	17 28.89	-25 18.9	1.135	2.134	6.3	18.7	5 31	17 27.76	-6 9.0	2.002	2.973	6.9	20.1
6 10	17 19.22	-25 15.7	1.103	2.118	1.3	18.3	6 10	17 19.13	-5 32.7	1.976	2.960	5.9	20.0
6 20	17 9.05	-25 6.7	1.095	2.102	5.1	18.5	6 20	17 10.33	-5 9.8	1.977	2.948	7.2	20.1
6 30	17 0.03	-24 53.7	1.110	2.087	10.5	18.8	6 30	17 2.22	-5 1.7	2.004	2.935	9.7	20.2
7 10	16 53.55	-24 40.1	1.146	2.074	15.5	19.0	7 10	16 55.55	-5 8.1	2.055	2.921	12.5	20.3
7 20	16 50.43	-24 29.2	1.200	2.061	19.8	19.3	7 20	16 50.84	-5 27.6	2.126	2.907	15.0	20.5
<b>475840</b>	2007 <i>BX</i> <sub>40</sub>		6 11.1 201°61	4°7/10.2	18		<b>168201</b>	2006 <i>JJ</i> <sub>23</sub>		6 11.1 307°97	1°1/11.3	18	
5 11	17 38.79	-5 22.0	2.973	3.821	9.3	22.0	5 11	17 41.96	-25 43.7	1.644	2.535	13.4	20.3
5 21	17 33.17	-5 5.9	2.898	3.816	7.4	21.9	5 21	17 36.60	-25 51.2	1.554	2.510	9.7	20.0
5 31	17 26.39	-4 58.2	2.849	3.811	5.6	21.7	5 31	17 28.75	-25 54.8	1.488	2.485	5.5	19.7
6 10	17 18.94	-5 0.0	2.828	3.806	4.7	21.7	6 10	17 19.26	-25 52.9	1.446	2.460	1.3	19.3
6 20	17 11.40	-5 12.0	2.834	3.800	5.5	21.7	6 20	17 9.27	-25 45.2	1.430	2.436	4.4	19.5
6 30	17 4.35	-5 34.1	2.869	3.794	7.3	21.8	6 30	17 0.11	-25 33.1	1.439	2.412	9.1	19.7
7 10	16 58.32	-6 5.4	2.929	3.788	9.4	21.9	7 10	16 52.97	-25 19.3	1.472	2.388	13.5	19.9
7 20	16 53.69	-6 44.5	3.011	3.781	11.3	22.1	7 20	16 48.63	-25 6.6	1.524	2.365	17.3	20.1
<b>281566</b>	2008 <i>UQ</i> <sub>92</sub>		6 11.1 213°04	2°8/10.7	18		<b>266717</b>	2009 <i>QK</i> <sub>55</sub>		6 11.1 301°86	2°7/10.6	17	
5 11	17 41.97	-15 31.6	2.035	2.914	11.7	20.9	5 11	17 42.19	-18 25.8	1.496	2.391	14.2	20.7
5 21	17 35.89	-15 20.0	1.962	2.910	8.5	20.7	5 21	17 36.61	-17 53.2	1.424	2.381	10.3	20.4
5 31	17 28.02	-15 12.3	1.914	2.906	5.1	20.5	5 31	17 28.64	-17 21.4	1.375	2.371	5.9	20.1
6 10	17 19.12	-15 9.3	1.893	2.902	2.8	20.3	6 10	17 19.23	-16 52.4	1.350	2.361	2.7	19.9
6 20	17 10.05	-15 11.7	1.899	2.897	4.7	20.4	6 20	17 9.58	-16 28.3	1.350	2.352	5.5	20.1
6 30	17 1.76	-15 20.0	1.932	2.892	8.1	20.6	6 30	17 0.96	-16 11.5	1.375	2.343	10.0	20.3
7 10	16 55.05	-15 34.4	1.990	2.887	11.4	20.8	7 10	16 54.45	-16 3.7	1.423	2.334	14.2	20.5
7 20	16 50.46	-15 54.7	2.068	2.881	14.4	21.0	7 20	16 50.70	-16 5.4	1.489	2.325	17.9	20.7
<b>493497</b>	2015 <i>AR</i> <sub>271</sub>		6 11.1 343°92	1°9/11.2	17		<b>297303</b>	1998 <i>SK</i> <sub>86</sub>		6 11.1 265°78	3°3/11.5	17	
5 11	17 37.10	-25 24.5	0.989	1.910	17.4	20.2	5 11	17 47.98	-29 50.0	1.450	2.335	15.2	20.9
5 21	17 34.05	-25 50.0	0.923	1.893	12.6	19.9	5 21	17 41.29	-30 14.5	1.366	2.316	11.3	20.6
5 31	17 27.67	-26 12.6	0.876	1.877	7.2	19.5	5 31	17 31.47	-30 31.2	1.305	2.297	6.9	20.3
6 10	17 19.11	-26 29.5	0.849	1.863	2.0	19.1	6 10	17 19.55	-30 36.1	1.267	2.277	3.4	20.0
6 20	17 10.00	-26 39.0	0.843	1.852	5.8	19.3	6 20	17 7.01	-30 27.5	1.255	2.257	5.7	20.1
6 30	17 2.24	-26 41.8	0.858	1.842	11.7	19.6	6 30	16 55.58	-30 6.7	1.267	2.237	10.5	20.3
7 10	16 57.43	-26 41.1	0.891	1.834	17.1	19.9	7 10	16 46.72	-29 38.7	1.302	2.216	15.1	20.5
7 20	16 56.46	-26 39.9	0.941	1.828	21.8	20.1	7 20	16 41.34	-29 8.8	1.356	2.195	19.1	20.7
<b>272447</b>	2005 <i>UQ</i> <sub>17</sub>		6 11.1 333°86	8°7/7.1	17		<b>497487</b>	2006 <i>AT</i> <sub>14</sub>		6 11.1 142°20	0°8/11.3	17	
5 11	17 39.02	-1 3.5	2.152	2.999	12.4	20.0	5 11	17 44.49	-25 45.3	2.091	2.968	11.6	22.6
5 21	17 33.62	+ 0 41.1	2.092	2.996	10.5	19.9	5 21	17 37.62	-25 42.5	2.028	2.977	8.2	22.4
5 31	17 26.72	+ 2 13.9	2.057	2.993	9.0	19.8	5 31	17 28.93	-25 35.3	1.990	2.986	4.5	22.2
6 10	17 18.99	+ 3 29.8	2.047	2.990	8.7	19.7	6 10	17 19.25	-25 23.3	1.979	2.994	0.9	21.9
6 20	17 11.19	+ 4 24.8	2.063	2.987	9.7	19.8	6 20	17 9.55	-25 7.0	1.997	3.002	3.5	22.1
6 30	17 4.10	+ 4 57.1	2.102	2.985	11.6	19.9	6 30	17 0.81	-24 48.1	2.042	3.009	7.2	22.4
7 10	16 58.40	+ 5 7.4	2.164	2.983	13.6	20.0	7 10	16 53.82	-24 28.9	2.112	3.016	10.6	22.6
7 20	16 54.53	+ 4 58.3	2.243	2.980	15.5	20.2	7 20	16 49.07	-24 11.8	2.205	3.022	13.4	22.8
<b>31005</b>	1995 <i>WC</i> <sub>31</sub>		6 11.1 310°69	2°3/11.2	18		<b>53389</b>	1999 <i>JZ</i> <sub>96</sub>		6 11.1 94°36	3°3/10.9	18	
5 11	17 42.50	-27 23.6	1.997	2.878	11.9	17.3	5 11	17 41.24	-12 33.4	2.159	3.032	11.4	19.0
5 21	17 36.58	-28 7.3	1.919	2.868	8.6	17.1	5 21	17 35.19	-12 36.3	2.101	3.044	8.3	18.8
5 31	17 28.55	-28 48.0	1.865	2.858	5.1	16.9	5 31	17 27.58	-12 45.6	2.068	3.056	5.3	18.6
6 10	17 19.19	-29 22.9	1.838	2.849	2.3	16.7	6 10	17 19.12	-13 1.8	2.063	3.067	3.3	18.5
6 20	17 9.49	-29 50.1	1.838	2.839	4.3	16.8	6 20	17 10.62	-13 24.7	2.084	3.079	4.7	18.6
6 30	17 0.56	-30 9.3	1.864	2.830	7.9	17.0	6 30	17 2.92	-13 53.8	2.134	3.090	7.7	18.8
7 10	16 53.37	-30 21.9	1.915	2.822	11.4	17.2	7 10	16 56.70	-14 28.3	2.208	3.101	10.6	19.0
7 20	16 48.57	-30 30.3	1.988	2.813	14.4	17.4	7 20	16 52.42	-15 7.0	2.304	3.112	13.2	19.2
<b>323188</b>	2003 <i>ON</i> <sub>33</sub>		6 11.1 276°14	0°1/11.1	18		<b>392439</b>						



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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>334838</b>	2003 <i>TH</i> <sub>23</sub>		6 11.1 285°81	1°0/11.4 18			<b>105323</b>	2000 <i>QQ</i> <sub>78</sub>		6 11.1 238°43	1°1/11.4 18		
5 11	17 42.82	-26 51.4	1.813	2.697	12.7	20.8	5 11	17 41.72	-27 12.8	2.609	3.480	9.7	20.6
5 21	17 36.83	-26 35.7	1.736	2.688	9.1	20.6	5 21	17 35.59	-27 13.5	2.522	3.468	7.0	20.4
5 31	17 28.68	-26 13.5	1.682	2.678	5.1	20.3	5 31	17 27.87	-27 9.7	2.461	3.454	4.0	20.2
6 10	17 19.26	-25 44.7	1.654	2.668	1.2	20.0	6 10	17 19.23	-27 0.8	2.428	3.441	1.2	20.0
6 20	17 9.64	-25 10.4	1.653	2.659	4.0	20.2	6 20	17 10.40	-26 47.0	2.423	3.427	3.1	20.1
6 30	17 1.00	-24 33.2	1.678	2.649	8.2	20.4	6 30	17 2.20	-26 29.4	2.447	3.413	6.3	20.3
7 10	16 54.27	-23 56.7	1.728	2.640	12.1	20.6	7 10	16 55.33	-26 9.9	2.497	3.398	9.3	20.5
7 20	16 50.07	-23 23.9	1.798	2.630	15.4	20.8	7 20	16 50.31	-25 50.8	2.570	3.383	11.9	20.6
<b>478206</b>	2011 <i>UB</i> <sub>279</sub>		6 11.1 196°47	0°8/11.3 18			<b>393466</b>	2002 <i>AQ</i> <sub>39</sub>		6 11.1 90°93	3°5/10.7 17		
5 11	17 40.97	-25 46.1	2.596	3.470	9.7	22.2	5 11	17 40.58	-11 34.5	2.421	3.290	10.5	21.2
5 21	17 34.98	-25 50.9	2.521	3.468	6.9	22.0	5 21	17 34.53	-11 22.1	2.373	3.312	7.8	21.0
5 31	17 27.48	-25 52.5	2.471	3.466	3.8	21.8	5 31	17 27.16	-11 15.7	2.351	3.334	5.1	20.9
6 10	17 19.14	-25 50.3	2.449	3.464	0.9	21.6	6 10	17 19.14	-11 16.3	2.355	3.356	3.6	20.8
6 20	17 10.68	-25 44.3	2.456	3.461	3.0	21.8	6 20	17 11.18	-11 24.2	2.388	3.377	4.7	20.9
6 30	17 2.88	-25 35.4	2.492	3.458	6.2	22.0	6 30	17 3.97	-11 39.4	2.449	3.398	7.2	21.1
7 10	16 56.42	-25 25.3	2.553	3.455	9.1	22.1	7 10	16 58.09	-12 1.3	2.534	3.419	9.8	21.3
7 20	16 51.76	-25 15.6	2.637	3.451	11.6	22.3	7 20	16 53.93	-12 28.9	2.642	3.439	12.0	21.5
<b>193634</b>	2001 <i>CS</i> <sub>44</sub>		6 11.1 176°06	0°3/11.1 18			<b>354199</b>	2002 <i>EJ</i> <sub>102</sub>		6 11.1 110°90	0°2/11.2 18		
5 11	17 44.24	-20 34.6	2.112	2.989	11.4	20.0	5 11	17 41.35	-25 1.0	2.530	3.404	9.9	20.8
5 21	17 37.55	-21 4.1	2.041	2.991	8.1	19.8	5 21	17 35.12	-24 41.9	2.470	3.418	7.0	20.7
5 31	17 28.99	-21 34.8	1.995	2.992	4.4	19.6	5 31	17 27.50	-24 19.2	2.436	3.432	3.8	20.5
6 10	17 19.31	-22 5.5	1.977	2.992	0.6	19.3	6 10	17 19.18	-23 53.4	2.431	3.446	0.5	20.2
6 20	17 9.44	-22 34.8	1.988	2.993	3.6	19.5	6 20	17 10.90	-23 25.5	2.454	3.459	3.0	20.4
6 30	17 0.36	-23 2.4	2.026	2.993	7.3	19.7	6 30	17 3.42	-22 57.2	2.506	3.472	6.1	20.7
7 10	16 52.90	-23 28.6	2.090	2.993	10.7	20.0	7 10	16 57.33	-22 30.5	2.584	3.485	9.0	20.9
7 20	16 47.63	-23 54.1	2.177	2.992	13.6	20.2	7 20	16 53.04	-22 7.1	2.685	3.498	11.4	21.1
<b>199141</b>	2005 <i>YJ</i> <sub>121</sub>		6 11.1 240°25	0°2/11.2 17			<b>442860</b>	2013 <i>AB</i> <sub>150</sub>		6 11.1 356°41	10°5/10.3 16		
5 11	17 46.60	-23 39.4	1.434	2.325	15.0	20.6	5 11	17 37.18	+ 2 4.6	1.592	2.446	15.7	20.3
5 21	17 40.00	-23 41.0	1.362	2.317	10.8	20.4	5 21	17 32.81	+ 2 45.9	1.534	2.442	13.3	20.1
5 31	17 30.61	-23 39.7	1.311	2.309	5.9	20.1	5 31	17 26.50	+ 3 5.9	1.497	2.438	11.4	20.0
6 10	17 19.49	-23 34.4	1.285	2.300	0.7	19.7	6 10	17 19.09	+ 3 0.4	1.482	2.435	10.5	20.0
6 20	17 8.03	-23 25.1	1.285	2.291	4.8	20.0	6 20	17 11.54	+ 2 27.9	1.489	2.434	11.3	20.0
6 30	16 57.74	-23 13.8	1.310	2.281	9.9	20.2	6 30	17 4.86	+ 1 29.7	1.518	2.433	13.2	20.1
7 10	16 49.88	-23 3.4	1.357	2.272	14.5	20.5	7 10	16 59.93	+ 0 10.3	1.568	2.434	15.7	20.3
7 20	16 45.17	-22 56.4	1.423	2.262	18.4	20.7	7 20	16 57.28	- 1 24.5	1.636	2.435	18.1	20.4
<b>511953</b>	2015 <i>KB</i> <sub>1</sub>		6 11.1 339°00	2°1/10.4 17			<b>384010</b>	2008 <i>UZ</i> <sub>64</sub>		6 11.1 87°25	0°1/11.2 17		
5 11	17 42.27	-21 48.4	1.558	2.452	13.8	20.0	5 11	17 43.29	-25 3.0	1.862	2.745	12.4	20.5
5 21	17 36.50	-20 39.3	1.490	2.447	9.9	19.8	5 21	17 36.90	-24 36.4	1.802	2.755	8.8	20.3
5 31	17 28.50	-19 25.4	1.445	2.443	5.5	19.5	5 31	17 28.60	-24 5.0	1.767	2.764	4.8	20.1
6 10	17 19.26	-18 10.0	1.426	2.439	2.1	19.3	6 10	17 19.31	-23 29.5	1.758	2.773	0.5	19.7
6 20	17 9.97	-16 57.6	1.433	2.435	5.1	19.4	6 20	17 10.05	-22 51.6	1.777	2.783	3.8	20.0
6 30	17 1.80	-15 53.1	1.465	2.432	9.6	19.7	6 30	17 1.86	-22 14.3	1.823	2.792	7.8	20.3
7 10	16 55.72	-15 0.4	1.521	2.429	13.6	19.9	7 10	16 55.55	-21 40.3	1.892	2.801	11.4	20.5
7 20	16 52.27	-14 21.3	1.596	2.426	17.1	20.1	7 20	16 51.60	-21 11.9	1.984	2.810	14.4	20.7
<b>3138</b>	Ciney		6 11.1 66°29	2°3/10.7 18			<b>24864</b>	1996 <i>EB</i> <sub>1</sub>		6 11.1 224°65	1°9/11.5 18		
5 11	17 45.05	-20 0.5	1.246	2.146	16.1	16.3	5 11	17 43.64	-28 28.0	2.119	2.994	11.5	18.7
5 21	17 38.76	-19 23.4	1.195	2.154	11.5	16.1	5 21	17 37.23	-28 39.0	2.042	2.989	8.3	18.5
5 31	17 29.80	-18 46.0	1.164	2.162	6.4	15.8	5 31	17 28.87	-28 44.3	1.990	2.983	4.9	18.3
6 10	17 19.40	-18 10.5	1.157	2.170	2.3	15.6	6 10	17 19.35	-28 42.5	1.965	2.976	2.0	18.1
6 20	17 9.02	-17 39.5	1.175	2.179	5.7	15.8	6 20	17 9.64	-28 33.3	1.967	2.970	3.9	18.2
6 30	17 0.13	-17 15.9	1.216	2.187	10.6	16.1	6 30	17 0.76	-28 18.1	1.996	2.963	7.4	18.4
7 10	16 53.81	-17 2.1	1.279	2.196	15.1	16.4	7 10	16 53.60	-27 59.4	2.051	2.956	10.8	18.6
7 20	16 50.61	-16 58.5	1.360	2.204	18.8	16.6	7 20	16 48.73	-27 40.1	2.128	2.949	13.7	18.8
<b>241400</b>	2008 <i>TC</i> <sub>160</sub>		6 11.1 83°17	4°2/10.3 17			<b>192908</b>	1999 <i>XG</i> <sub>223</sub>		6 11.1 168°71	0°6/11.2 17		
5 11	17 42.53	-12 50.1	1.897	2.775	12.5	20.5	5 11	17 43.62	-24 36.4	2.308	3.183	10.7	21.8
5 21	17 36.13	-12 12.2	1.853	2.797	9.2	20.3	5 21	17 36.98	-24 45.9	2.238	3.186	7.6	21.6
5 31	17 28.07	-11 40.5	1.833	2.819	6.0	20.1	5 31	17 28.63	-24 52.6	2.194	3.190	4.2	21.4
6 10	17 19.22	-11 17.0	1.840	2.841	4.2	20.1	6 10	17 19.32	-24 55.9	2.178	3.192	0.7	21.1
6 20	17 10.48	-11 3.1	1.873	2.863	5.7	20.2	6 20	17 9.90	-24 55.5	2.190	3.195	3.3	21.3
6 30	17 2.76	-10 59.8	1.933	2.884	8.7	20.4	6 30	17 1.28	-24 52.2	2.230	3.196	6.8	21.6
7 10	16 56.75	-11 6.6	2.016	2.905	11.7	20.7	7 10	16 54.19	-24 47.8	2.296	3.198	9.9	21.8
7 20	16 52.87	-11 22.5	2.121	2.926	14.3	20.9	7 20	16 49.16	-24 43.9	2.385	3.199	12.6	22.0
<b>120511</b>	1993 <i>TA</i> <sub>20</sub>		6 11.1 222°56	0°5/11.1 18			<b>311426</b>	2005 <i>UQ</i> <sub>129</sub>		6 11.1 98°15	1°1/11.3 17		
5 11	17 43.99	-21 45.1	1.788	2.673	12.8	19.9	5 11	17 41.05	-26 26.5	2.303	3.181	10.6	21.3
5 21	17 37.64	-21 47.4	1.716	2.669	9.1	19.6	5 21	17 35.19	-26 35.6	2.234	3.183	7.6	21.1
5 31	17 29.13	-21 48.9	1.667	2.665	5.0	19.4	5 31	17 27.67	-26 40.9	2.190	3.184	4.3	20.9
6 10	17 19.35	-21 49.3	1.645	2.660	0.7	19.0	6 10	17 19.22	-26 41.5	2.172	3.186	1.2	20.7
6 20	17 9.35	-21 48.7	1.650	2.655	4.1	19.3	6 20	17 10.66	-26 37.5	2.183	3.188	3.3	20.8
6 30	17 0.28	-21 47.9	1.681	2.650	8.4	19.5	6 30	17 2.87	-26 29.7	2.222	3.190	6.7	21.1
7 10	16 53.11	-21 48.7	1.736	2.644	12.2	19.7	7 10	16 56.59	-26 20.0	2.286	3.192	9.8	21.3
7 20	16 48.46	-21 52.3	1.812	2.639	15.5	19.9	7 20	16 52.30	-26 10.3	2.372	3.193	12.5	21.4
<b>193530</b>	2000 <i>YM</i> <sub>91</sub>		6 11.1 297°02	2°3/11.1 18			<b>288148</b>	2003 <i>WT</i> <					

EPHEMERIDES

6 11.1

6 11.2

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>310322</b>	2011 <i>UP</i> <sub>160</sub>		6 11.1 268°68	1°9/11.3	18		<b>481156</b>	2005 <i>UU</i> <sub>182</sub>		6 11.2 259°74	1°6/11.3	16	
5 11	17 42.46	-27 17.7	2.249	3.125	10.9	20.4	5 11	17 42.01	-27 27.7	2.519	3.390	10.0	22.0
5 21	17 36.37	-27 52.6	2.172	3.118	7.9	20.2	5 21	17 35.94	-27 50.5	2.429	3.374	7.3	21.8
5 31	17 28.41	-28 24.2	2.119	3.111	4.6	20.0	5 31	17 28.16	-28 9.9	2.365	3.358	4.2	21.6
6 10	17 19.31	-28 50.5	2.093	3.105	2.0	19.8	6 10	17 19.30	-28 24.2	2.329	3.341	1.7	21.4
6 20	17 9.95	-29 10.0	2.095	3.098	3.8	19.9	6 20	17 10.17	-28 32.6	2.321	3.324	3.4	21.5
6 30	17 1.30	-29 23.0	2.125	3.091	7.1	20.1	6 30	17 1.62	-28 35.6	2.342	3.306	6.6	21.6
7 10	16 54.20	-29 30.7	2.180	3.084	10.3	20.3	7 10	16 54.45	-28 34.5	2.388	3.289	9.7	21.8
7 20	16 49.24	-29 35.2	2.258	3.077	13.1	20.5	7 20	16 49.19	-28 31.4	2.457	3.271	12.3	22.0
<b>290270</b>	2005 <i>SS</i> <sub>142</sub>		6 11.1 301°39	5°8/11.5	18		<b>417741</b>	2007 <i>CM</i> <sub>79</sub>		6 11.2 89°31	3°0/11.4	17	
5 11	17 44.69	-37 31.8	2.082	2.939	12.4	20.2	5 11	17 46.70	-29 3.0	1.671	2.552	13.8	20.7
5 21	17 38.36	-38 28.4	2.004	2.928	9.8	20.0	5 21	17 39.69	-29 42.4	1.617	2.564	10.0	20.5
5 31	17 29.67	-39 14.7	1.949	2.918	7.2	19.8	5 31	17 30.28	-30 15.3	1.585	2.577	6.0	20.3
6 10	17 19.45	-39 46.3	1.920	2.907	5.8	19.7	6 10	17 19.52	-30 38.3	1.580	2.590	3.0	20.2
6 20	17 8.84	-40 0.7	1.918	2.896	6.6	19.7	6 20	17 8.68	-30 50.1	1.601	2.602	4.9	20.3
6 30	16 59.08	-39 58.4	1.941	2.886	9.1	19.8	6 30	16 59.06	-30 51.8	1.648	2.614	8.7	20.6
7 10	16 51.27	-39 42.5	1.987	2.876	11.9	20.0	7 10	16 51.71	-30 46.4	1.719	2.626	12.4	20.8
7 20	16 46.13	-39 17.8	2.055	2.866	14.5	20.2	7 20	16 47.19	-30 37.7	1.810	2.638	15.5	21.0
<b>477750</b>	2010 <i>VE</i> <sub>44</sub>		6 11.1 330°04	3°8/ 9.8	17		<b>438629</b>	2008 <i>AD</i> <sub>26</sub>		6 11.2 163°64	1°8/11.5	18	
5 11	17 38.92	-15 16.2	1.976	2.861	11.7	20.7	5 11	17 42.17	-28 35.5	2.258	3.132	10.9	21.6
5 21	17 33.79	-14 14.3	1.903	2.852	8.6	20.5	5 21	17 36.05	-28 44.5	2.188	3.133	7.9	21.4
5 31	17 26.96	-13 14.1	1.854	2.844	5.5	20.3	5 31	17 28.17	-28 47.9	2.142	3.135	4.6	21.2
6 10	17 19.15	-12 18.9	1.832	2.835	3.8	20.1	6 10	17 19.31	-28 44.7	2.124	3.136	1.9	21.0
6 20	17 11.24	-11 31.8	1.836	2.828	5.6	20.2	6 20	17 10.34	-28 34.8	2.134	3.136	3.6	21.2
6 30	17 4.10	-10 55.5	1.867	2.820	8.8	20.4	6 30	17 2.19	-28 19.6	2.171	3.137	6.9	21.4
7 10	16 58.51	-10 31.2	1.921	2.813	12.0	20.6	7 10	16 55.63	-28 1.3	2.233	3.138	10.0	21.6
7 20	16 54.96	-10 19.2	1.996	2.807	14.9	20.8	7 20	16 51.17	-27 42.6	2.317	3.138	12.7	21.8
<b>18980</b>	Johannatang		6 11.1 347°08	3°5/10.6	18		<b>428113</b>	2006 <i>RB</i> <sub>66</sub>		6 11.2 230°98	3°7/11.6	17	
5 11	17 39.18	-18 10.1	1.012	1.929	17.4	17.1	5 11	17 47.52	-31 45.4	1.795	2.667	13.4	22.3
5 21	17 35.22	-17 34.4	0.953	1.920	12.7	16.8	5 21	17 40.46	-32 15.5	1.716	2.658	10.0	22.0
5 31	17 28.19	-17 0.9	0.913	1.912	7.4	16.4	5 31	17 30.83	-32 37.1	1.661	2.648	6.4	21.8
6 10	17 19.30	-16 32.8	0.894	1.906	3.5	16.2	6 10	17 19.61	-32 46.9	1.632	2.638	3.8	21.6
6 20	17 10.10	-16 13.1	0.896	1.900	6.8	16.4	6 20	17 8.03	-32 43.3	1.630	2.627	5.3	21.7
6 30	17 2.31	-16 4.6	0.919	1.896	12.2	16.6	6 30	16 57.46	-32 27.6	1.653	2.616	9.0	21.9
7 10	16 57.27	-16 8.4	0.961	1.893	17.3	16.9	7 10	16 49.08	-32 3.7	1.701	2.605	12.7	22.1
7 20	16 55.70	-16 24.1	1.020	1.892	21.6	17.2	7 20	16 43.59	-31 36.2	1.770	2.593	16.0	22.3
<b>396558</b>	1999 <i>TG</i> <sub>199</sub>		6 11.1 279°44	2°3/10.3	16		<b>176425</b>	2001 <i>VQ</i> <sub>67</sub>		6 11.2 154°40	4°1/11.5	18	
5 11	17 40.41	-18 20.6	2.376	3.254	10.3	20.8	5 11	17 53.76	-30 57.6	1.484	2.358	15.6	21.3
5 21	17 34.72	-17 32.6	2.284	3.232	7.5	20.6	5 21	17 45.10	-31 44.6	1.425	2.368	11.5	21.0
5 31	17 27.44	-16 43.6	2.217	3.210	4.4	20.3	5 31	17 33.39	-32 22.4	1.389	2.377	7.2	20.8
6 10	17 19.21	-15 55.4	2.178	3.188	2.3	20.2	6 10	17 19.87	-32 45.8	1.378	2.384	4.2	20.7
6 20	17 10.78	-15 10.2	2.168	3.165	4.2	20.3	6 20	17 6.18	-32 52.6	1.393	2.391	6.0	20.8
6 30	17 2.96	-14 30.6	2.185	3.142	7.5	20.4	6 30	16 54.00	-32 44.5	1.435	2.397	10.1	21.0
7 10	16 56.47	-13 58.5	2.228	3.120	10.6	20.6	7 10	16 44.66	-32 26.6	1.500	2.402	14.1	21.3
7 20	16 51.82	-13 35.1	2.293	3.096	13.4	20.7	7 20	16 38.83	-32 4.7	1.584	2.406	17.6	21.5
<b>227790</b>	2006 <i>XK</i> <sub>59</sub>		6 11.1 295°62	1°2/11.3	17		<b>249800</b>	2000 <i>YA</i> <sub>91</sub>		6 11.2 187°49	1°2/10.9	17	
5 11	17 44.08	-25 32.7	1.476	2.369	14.5	20.9	5 11	17 45.92	-20 20.8	1.883	2.762	12.5	21.5
5 21	17 38.40	-25 41.5	1.389	2.346	10.5	20.6	5 21	17 38.89	-20 12.5	1.812	2.762	8.9	21.3
5 31	17 29.89	-25 46.2	1.325	2.322	5.9	20.3	5 31	17 29.78	-20 4.0	1.765	2.761	4.9	21.1
6 10	17 19.50	-25 45.1	1.284	2.298	1.4	19.9	6 10	17 19.49	-19 55.4	1.746	2.760	1.2	20.8
6 20	17 8.51	-25 37.6	1.268	2.275	4.8	20.1	6 20	17 9.04	-19 47.3	1.754	2.757	4.1	21.0
6 30	16 58.47	-25 25.1	1.278	2.251	9.9	20.3	6 30	16 59.54	-19 41.1	1.789	2.755	8.2	21.2
7 10	16 50.69	-25 10.7	1.309	2.228	14.7	20.5	7 10	16 51.89	-19 38.1	1.849	2.751	11.9	21.5
7 20	16 46.06	-24 58.0	1.360	2.205	18.8	20.7	7 20	16 46.68	-19 39.6	1.930	2.746	15.1	21.7
<b>93143</b>	2000 <i>SE</i> <sub>75</sub>		6 11.2 289°82	2°1/10.9	18		<b>518243</b>	2016 <i>UW</i> <sub>62</sub>		6 11.2 187°55	3°4/10.6	18	
5 11	17 42.48	-18 12.1	1.674	2.563	13.3	19.8	5 11	17 39.27	-11 46.3	2.521	3.390	10.1	21.6
5 21	17 36.83	-18 5.3	1.588	2.542	9.6	19.6	5 21	17 33.74	-11 35.1	2.451	3.390	7.5	21.4
5 31	17 28.86	-18 1.0	1.526	2.522	5.5	19.3	5 31	17 26.84	-11 29.6	2.406	3.389	4.9	21.3
6 10	17 19.38	-17 59.6	1.488	2.501	2.1	19.0	6 10	17 19.18	-11 30.8	2.388	3.389	3.4	21.2
6 20	17 9.48	-18 1.8	1.477	2.480	4.9	19.1	6 20	17 11.41	-11 39.1	2.398	3.388	4.7	21.3
6 30	17 0.37	-18 8.3	1.492	2.460	9.3	19.3	6 30	17 4.26	-11 54.7	2.436	3.387	7.2	21.4
7 10	16 53.14	-18 20.1	1.529	2.439	13.5	19.5	7 10	16 58.32	-12 17.1	2.500	3.386	9.8	21.6
7 20	16 48.51	-18 37.5	1.587	2.418	17.1	19.7	7 20	16 54.04	-12 45.6	2.585	3.384	12.2	21.7
<b>498311</b>	2007 <i>VW</i> <sub>139</sub>		6 11.2 263°17	2°2/10.7	17		<b>346193</b>	2007 <i>XZ</i> <sub>19</sub>		6 11.2 166°89	0°1/11.2	17	
5 11	17 44.53	-19 42.8	1.503	2.395	14.4	22.0	5 11	17 41.84	-23 49.8	2.528	3.402	9.9	21.7
5 21	17 38.37	-19 7.3	1.427	2.382	10.4	21.7	5 21	17 35.59	-23 42.8	2.458	3.406	7.0	21.5
5 31	17 29.69	-18 30.6	1.373	2.369	5.9	21.4	5 31	17 27.84	-23 33.3	2.413	3.409	3.8	21.3
6 10	17 19.46	-17 54.6	1.343	2.356	2.3	21.2	6 10	17 19.29	-23 21.3	2.397	3.412	0.4	21.1
6 20	17 8.93	-17 21.5	1.340	2.343	5.3	21.3	6 20	17 10.67	-23 7.3	2.410	3.415	3.0	21.3
6 30	16 59.44	-16 54.4	1.362	2.329	10.1	21.6	6 30	17 2.77	-22 52.4	2.451	3.417	6.3	21.5
7 10	16 52.13	-16 35.9	1.406	2.315	14.5	21.8	7 10	16 56.25	-22 38.3	2.518	3.419	9.2	21.7
7 20	16 47.69	-16 27.2	1.469	2.301	18.3	22.0	7 20	16 51.55	-22 26.5	2.608	3.420	11.7	21.9
<b>64019</b>	2001 <i>SB</i> <sub>152</sub>		6 11.2 204°52	0°7/10.9	18		<b>276102</b>						

EPHEMERIDES

6 11.2

6 11.2

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>443407</b>	2014 <i>HP</i> <sub>45</sub>		6 11.2 295 <sup>o</sup> .74	2 <sup>o</sup> .5/10.9	18		<b>199447</b>	2006 <i>DG</i> <sub>36</sub>		6 11.2 238 <sup>o</sup> .12	2 <sup>o</sup> .1/10.8	18	
5 11	17 40.09	-15 42.0	2.097	2.979	11.3	20.9	5 11	17 42.18	-18 13.8	1.892	2.776	12.2	20.4
5 21	17 34.69	-15 40.8	2.015	2.964	8.3	20.7	5 21	17 36.24	-17 57.3	1.820	2.772	8.8	20.2
5 31	17 27.52	-15 43.9	1.956	2.949	4.9	20.4	5 31	17 28.38	-17 42.3	1.772	2.767	5.0	20.0
6 10	17 19.27	-15 51.7	1.924	2.934	2.5	20.2	6 10	17 19.40	-17 29.8	1.751	2.763	2.1	19.8
6 20	17 10.75	-16 4.5	1.920	2.920	4.4	20.3	6 20	17 10.25	-17 20.7	1.757	2.758	4.4	19.9
6 30	17 2.89	-16 22.5	1.942	2.905	7.9	20.5	6 30	17 1.97	-17 16.2	1.789	2.754	8.3	20.1
7 10	16 56.48	-16 45.6	1.989	2.891	11.2	20.7	7 10	16 55.39	-17 17.3	1.845	2.749	11.9	20.3
7 20	16 52.10	-17 13.5	2.058	2.877	14.2	20.9	7 20	16 51.07	-17 24.4	1.922	2.744	15.0	20.5
<b>6824</b>	Mallory		6 11.2 236 <sup>o</sup> .72	0 <sup>o</sup> .5/11.1	18		<b>230113</b>	2001 <i>BZ</i> <sub>62</sub>		6 11.2 142 <sup>o</sup> .88	3 <sup>o</sup> .9/12.0	18	
5 11	17 40.36	-21 35.5	2.684	3.559	9.4	18.4	5 11	17 46.21	-34 47.1	2.141	3.001	12.0	20.4
5 21	17 34.56	-21 32.1	2.599	3.548	6.7	18.2	5 21	17 39.04	-35 2.2	2.077	3.009	9.0	20.2
5 31	17 27.33	-21 27.9	2.540	3.536	3.6	18.0	5 31	17 29.85	-35 6.6	2.036	3.016	6.0	20.0
6 10	17 19.24	-21 23.0	2.509	3.524	0.6	17.7	6 10	17 19.55	-34 58.3	2.023	3.023	4.0	19.9
6 20	17 10.99	-21 17.6	2.507	3.511	3.0	17.9	6 20	17 9.21	-34 37.0	2.037	3.030	5.0	20.0
6 30	17 3.30	-21 12.5	2.533	3.498	6.2	18.1	6 30	16 59.92	-34 5.0	2.078	3.036	7.8	20.2
7 10	16 56.83	-21 8.7	2.586	3.485	9.1	18.3	7 10	16 52.55	-33 26.2	2.144	3.042	10.7	20.3
7 20	16 52.03	-21 7.2	2.661	3.471	11.6	18.4	7 20	16 47.63	-32 44.9	2.232	3.047	13.4	20.5
<b>105847</b>	2000 <i>SD</i> <sub>165</sub>		6 11.2 310 <sup>o</sup> .07	3 <sup>o</sup> .1/11.9	18		<b>150110</b>	1981 <i>EA</i> <sub>30</sub>		6 11.2 52 <sup>o</sup> .58	8 <sup>o</sup> .7/10.1	18	
5 11	17 42.46	-32 26.6	1.892	2.768	12.6	19.0	5 11	17 39.83	- 0 7.2	1.890	2.738	13.8	19.9
5 21	17 36.70	-32 17.0	1.806	2.750	9.4	18.8	5 21	17 34.24	+ 0 45.7	1.855	2.762	11.4	19.8
5 31	17 28.72	-31 56.6	1.744	2.733	5.9	18.6	5 31	17 27.11	+ 1 21.6	1.843	2.786	9.5	19.7
6 10	17 19.40	-31 24.0	1.707	2.715	3.2	18.3	6 10	17 19.25	+ 1 37.4	1.855	2.810	8.7	19.7
6 20	17 9.84	-30 39.8	1.697	2.698	4.6	18.4	6 20	17 11.51	+ 1 32.1	1.891	2.834	9.4	19.8
6 30	17 1.21	-29 47.1	1.713	2.681	8.3	18.6	6 30	17 4.70	+ 1 6.6	1.952	2.858	11.2	19.9
7 10	16 54.53	-28 50.4	1.753	2.665	11.9	18.8	7 10	16 59.49	+ 0 24.0	2.034	2.883	13.3	20.1
7 20	16 50.41	-27 54.5	1.815	2.649	15.2	19.0	7 20	16 56.25	- 0 31.8	2.135	2.907	15.2	20.3
<b>79345</b>	1996 <i>VN</i> <sub>32</sub>		6 11.2 197 <sup>o</sup> .49	4 <sup>o</sup> .3/11.9	18		<b>382892</b>	2004 <i>PN</i> <sub>85</sub>		6 11.2 203 <sup>o</sup> .26	7 <sup>o</sup> .4/ 9.3	18	
5 11	17 44.32	-35 45.4	2.254	3.112	11.5	19.5	5 11	17 41.25	+ 0 27.2	2.545	3.373	11.3	21.7
5 21	17 37.73	-36 8.4	2.182	3.111	8.8	19.4	5 21	17 35.13	+ 1 14.5	2.475	3.368	9.5	21.5
5 31	17 29.16	-36 21.0	2.134	3.110	6.1	19.2	5 31	17 27.62	+ 1 49.6	2.428	3.362	8.0	21.4
6 10	17 19.44	-36 20.9	2.112	3.108	4.3	19.1	6 10	17 19.32	+ 2 9.4	2.408	3.355	7.4	21.4
6 20	17 9.58	-36 7.4	2.118	3.107	5.2	19.1	6 20	17 10.90	+ 2 12.4	2.414	3.347	8.1	21.4
6 30	17 0.62	-35 42.2	2.150	3.105	7.7	19.3	6 30	17 3.07	+ 1 58.2	2.446	3.338	9.8	21.5
7 10	16 53.46	-35 8.8	2.208	3.104	10.5	19.4	7 10	16 56.46	+ 1 28.4	2.502	3.329	11.7	21.6
7 20	16 48.63	-34 31.2	2.287	3.102	13.1	19.6	7 20	16 51.49	+ 0 45.3	2.578	3.319	13.6	21.7
<b>470374</b>	2007 <i>TL</i> <sub>145</sub>		6 11.2 272 <sup>o</sup> .41	3 <sup>o</sup> .9/11.5	18		<b>149557</b>	2003 <i>LW</i> <sub>5</sub>		6 11.2 324 <sup>o</sup> .59	0 <sup>o</sup> .3/11.2	17	
5 11	17 45.26	-33 4.7	2.103	2.968	11.9	21.8	5 11	17 40.92	-22 37.7	1.355	2.257	14.9	18.7
5 21	17 38.72	-33 38.5	2.010	2.946	9.0	21.6	5 21	17 36.26	-22 58.3	1.274	2.235	10.8	18.4
5 31	17 29.89	-34 4.4	1.941	2.924	6.0	21.3	5 31	17 28.81	-23 19.6	1.215	2.214	6.0	18.0
6 10	17 19.55	-34 19.2	1.899	2.901	4.0	21.2	6 10	17 19.48	-23 39.8	1.178	2.193	0.7	17.6
6 20	17 8.75	-34 21.3	1.884	2.878	5.2	21.2	6 20	17 9.56	-23 57.6	1.166	2.174	4.8	17.8
6 30	16 58.69	-34 11.2	1.896	2.855	8.3	21.3	6 30	17 0.59	-24 13.2	1.178	2.155	10.2	18.1
7 10	16 50.43	-33 51.8	1.933	2.831	11.7	21.5	7 10	16 53.92	-24 27.7	1.211	2.137	15.0	18.3
7 20	16 44.71	-33 27.1	1.991	2.807	14.7	21.7	7 20	16 50.42	-24 43.0	1.263	2.120	19.2	18.5
<b>504066</b>	2005 <i>YR</i> <sub>173</sub>		6 11.2 221 <sup>o</sup> .86	0 <sup>o</sup> .2/11.1	18		<b>336434</b>	2008 <i>US</i> <sub>258</sub>		6 11.2 209 <sup>o</sup> .81	0 <sup>o</sup> .4/11.3	17	
5 11	17 44.78	-24 24.3	2.258	3.131	10.9	21.7	5 11	17 43.40	-24 36.7	2.307	3.181	10.7	22.3
5 21	17 37.88	-23 54.3	2.173	3.121	7.8	21.5	5 21	17 36.91	-24 36.2	2.228	3.176	7.6	22.1
5 31	17 29.19	-23 19.6	2.114	3.110	4.3	21.3	5 31	17 28.68	-24 32.7	2.174	3.169	4.2	21.9
6 10	17 19.47	-22 40.8	2.082	3.098	0.5	20.9	6 10	17 19.44	-24 25.7	2.148	3.163	0.6	21.6
6 20	17 9.59	-21 59.3	2.080	3.085	3.5	21.2	6 20	17 10.03	-24 15.3	2.150	3.156	3.3	21.8
6 30	17 0.50	-21 17.7	2.107	3.072	7.2	21.4	6 30	17 1.36	-24 2.7	2.181	3.148	6.9	22.0
7 10	16 53.00	-20 38.8	2.159	3.058	10.6	21.6	7 10	16 54.21	-23 49.9	2.238	3.140	10.1	22.2
7 20	16 47.62	-20 5.0	2.233	3.043	13.5	21.7	7 20	16 49.11	-23 38.6	2.316	3.131	13.0	22.4
<b>231370</b>	2006 <i>HK</i> <sub>24</sub>		6 11.2 20 <sup>o</sup> .55	0 <sup>o</sup> .4/11.1	17		<b>403532</b>	2010 <i>FG</i> <sub>88</sub>		6 11.2 354 <sup>o</sup> .72	2 <sup>o</sup> .7/11.3	17	
5 11	17 41.41	-21 35.0	1.447	2.345	14.4	20.2	5 11	17 41.61	-26 15.0	0.950	1.867	18.3	20.1
5 21	17 36.08	-21 45.8	1.392	2.351	10.2	19.9	5 21	17 37.39	-26 54.2	0.894	1.861	13.3	19.8
5 31	17 28.40	-21 56.8	1.359	2.358	5.6	19.7	5 31	17 29.60	-27 29.5	0.857	1.857	7.7	19.5
6 10	17 19.39	-22 7.3	1.351	2.366	0.7	19.3	6 10	17 19.56	-27 56.7	0.841	1.854	2.8	19.2
6 20	17 10.28	-22 16.8	1.367	2.374	4.4	19.6	6 20	17 9.10	-28 12.9	0.845	1.852	6.2	19.4
6 30	17 2.36	-22 26.0	1.408	2.383	9.1	19.9	6 30	17 0.28	-28 19.0	0.871	1.852	12.0	19.7
7 10	16 56.63	-22 36.1	1.472	2.392	13.2	20.2	7 10	16 54.68	-28 18.7	0.915	1.853	17.3	20.0
7 20	16 53.66	-22 48.2	1.555	2.403	16.7	20.5	7 20	16 53.10	-28 16.0	0.975	1.856	21.7	20.2
<b>179359</b>	2001 <i>XA</i> <sub>179</sub>		6 11.2 181 <sup>o</sup> .22	1 <sup>o</sup> .5/11.6	18		<b>436854</b>	2012 <i>SH</i> <sub>48</sub>		6 11.2 282 <sup>o</sup> .15	7 <sup>o</sup> .2/ 9.6	18	
5 11	17 42.27	-29 17.9	2.417	3.287	10.4	20.1	5 11	17 40.43	- 5 55.9	1.824	2.692	13.4	20.8
5 21	17 36.00	-29 2.5	2.344	3.288	7.5	19.9	5 21	17 35.01	- 5 3.1	1.754	2.683	10.6	20.6
5 31	17 28.11	-28 40.2	2.296	3.288	4.4	19.7	5 31	17 27.73	- 4 21.2	1.707	2.674	8.2	20.5
6 10	17 19.36	-28 10.9	2.276	3.288	1.6	19.5	6 10	17 19.34	- 3 54.1	1.685	2.665	7.2	20.4
6 20	17 10.56	-27 35.6	2.284	3.288	3.3	19.6	6 20	17 10.77	- 3 44.4	1.688	2.655	8.4	20.4
6 30	17 2.58	-26 56.5	2.321	3.287	6.5	19.8	6 30	17 2.99	- 3 52.9	1.715	2.646	11.0	20.6
7 10	16 56.11	-26 16.4	2.383	3.287	9.5	20.0	7 10	16 56.83	- 4 18.4	1.765	2.637	13.9	20.7
7 20	16 51.62	-25 38.1	2.468	3.286	12.2	20.2	7						

EPHEMERIDES

6 11.2

6 11.2

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>32256</b>	2000 <i>OL</i> <sub>52</sub>		6 11.2 172°85	0°3/11.1	18		<b>501520</b>	2014 <i>EE</i> <sub>19</sub>		6 11.2 99°32	1°1/11.4	17	
5 11	17 44.80	-24 48.3	1.958	2.837	12.1	17.8	5 11	17 43.59	-26 25.3	2.266	3.140	10.9	21.8
5 21	17 37.98	-24 5.2	1.889	2.839	8.6	17.5	5 21	17 36.93	-26 34.3	2.213	3.160	7.8	21.7
5 31	17 29.26	-23 16.5	1.844	2.841	4.7	17.3	5 31	17 28.63	-26 39.2	2.184	3.178	4.3	21.5
6 10	17 19.51	-22 23.5	1.827	2.842	0.5	17.0	6 10	17 19.50	-26 39.0	2.183	3.197	1.2	21.3
6 20	17 9.76	-21 28.6	1.838	2.843	3.8	17.2	6 20	17 10.39	-26 33.9	2.211	3.215	3.3	21.5
6 30	17 1.02	-20 35.4	1.877	2.843	7.8	17.5	6 30	17 2.19	-26 25.1	2.267	3.233	6.7	21.7
7 10	16 54.12	-19 47.1	1.940	2.844	11.4	17.7	7 10	16 55.61	-26 14.6	2.348	3.251	9.7	21.9
7 20	16 49.55	-19 6.5	2.025	2.843	14.4	17.9	7 20	16 51.08	-26 4.2	2.451	3.268	12.3	22.2
<b>377459</b>	2004 <i>WW</i> <sub>6</sub>		6 11.2 201°32	1°4/11.5	18		<b>261442</b>	2005 <i>VS</i> <sub>13</sub>		6 11.2 118°31	3°1/10.8	18	
5 11	17 44.51	-28 15.8	2.676	3.541	9.7	22.2	5 11	17 43.34	-15 19.1	1.755	2.638	13.1	20.2
5 21	17 37.53	-28 13.1	2.594	3.535	7.0	22.0	5 21	17 37.09	-15 6.4	1.696	2.645	9.5	20.0
5 31	17 28.97	-28 5.1	2.538	3.529	4.0	21.8	5 31	17 28.86	-14 58.5	1.659	2.651	5.7	19.8
6 10	17 19.50	-27 50.9	2.510	3.522	1.4	21.6	6 10	17 19.53	-14 56.3	1.649	2.658	3.1	19.6
6 20	17 9.91	-27 30.8	2.512	3.515	3.2	21.7	6 20	17 10.13	-15 0.6	1.665	2.664	5.1	19.8
6 30	17 1.01	-27 6.4	2.542	3.506	6.2	21.9	6 30	17 1.71	-15 11.6	1.708	2.670	8.8	20.0
7 10	16 53.51	-26 39.8	2.600	3.497	9.1	22.1	7 10	16 55.14	-15 29.3	1.774	2.676	12.4	20.2
7 20	16 47.89	-26 13.6	2.681	3.487	11.6	22.3	7 20	16 50.93	-15 53.3	1.860	2.681	15.4	20.4
<b>424206</b>	2007 <i>PB</i> <sub>33</sub>		6 11.2 279°17	2°5/10.9	17		<b>219035</b>	1995 <i>FA</i> <sub>14</sub>		6 11.2 251°66	0°2/11.2	18	
5 11	17 46.54	-17 50.9	1.563	2.448	14.3	22.0	5 11	17 44.29	-22 41.9	1.901	2.783	12.3	20.8
5 21	17 40.12	-17 38.4	1.463	2.415	10.5	21.7	5 21	17 37.95	-22 39.5	1.817	2.768	8.8	20.5
5 31	17 30.92	-17 28.1	1.387	2.382	6.1	21.4	5 31	17 29.45	-22 35.4	1.757	2.753	4.8	20.2
6 10	17 19.75	-17 20.7	1.335	2.347	2.5	21.1	6 10	17 19.61	-22 29.0	1.723	2.738	0.6	19.9
6 20	17 7.80	-17 17.1	1.309	2.312	5.5	21.2	6 20	17 9.45	-22 20.5	1.716	2.722	3.9	20.1
6 30	16 56.52	-17 18.6	1.310	2.276	10.5	21.3	6 30	17 0.10	-22 11.4	1.737	2.705	8.2	20.3
7 10	16 47.26	-17 26.7	1.333	2.239	15.3	21.5	7 10	16 52.53	-22 3.4	1.782	2.689	12.1	20.5
7 20	16 40.96	-17 42.4	1.374	2.201	19.6	21.7	7 20	16 47.40	-21 58.6	1.848	2.672	15.4	20.7
<b>332019</b>	2005 <i>NP</i> <sub>122</sub>		6 11.2 326°59	0°8/10.9	17 R		<b>137564</b>	1999 <i>VD</i> <sub>100</sub>		6 11.2 302°40	2°3/11.3	18	
5 11	17 37.40	-22 9.5	2.333	3.218	10.2	19.8	5 11	17 44.59	-26 39.1	1.348	2.244	15.4	20.2
5 21	17 32.72	-21 43.3	2.240	3.193	7.3	19.6	5 21	17 39.15	-27 9.2	1.261	2.218	11.3	19.8
5 31	17 26.47	-21 14.7	2.172	3.169	4.0	19.4	5 31	17 30.56	-27 36.0	1.196	2.193	6.6	19.5
6 10	17 19.25	-20 44.5	2.131	3.146	0.8	19.1	6 10	17 19.76	-27 56.2	1.154	2.167	2.4	19.2
6 20	17 11.82	-20 14.2	2.118	3.122	3.4	19.2	6 20	17 8.18	-28 7.2	1.137	2.142	5.4	19.3
6 30	17 4.97	-19 45.5	2.131	3.100	6.9	19.4	6 30	16 57.55	-28 9.4	1.143	2.117	10.7	19.5
7 10	16 59.44	-19 20.4	2.170	3.077	10.2	19.6	7 10	16 49.41	-28 5.6	1.171	2.093	15.7	19.7
7 20	16 55.74	-19 0.4	2.231	3.056	13.1	19.7	7 20	16 44.77	-27 59.9	1.216	2.068	20.1	19.9
<b>510553</b>	2012 <i>LB</i> <sub>17</sub>		6 11.2 335°68	9°7/10.6	18		<b>397624</b>	2007 <i>VL</i> <sub>324</sub>		6 11.2 154°03	4°5/11.8	17	
5 11	17 39.44	- 2 51.4	1.291	2.171	17.1	20.4	5 11	17 45.52	-35 35.4	2.265	3.122	11.5	21.1
5 21	17 34.95	- 2 18.2	1.225	2.158	13.9	20.2	5 21	17 38.64	-36 14.7	2.198	3.126	8.8	20.9
5 31	17 27.96	- 2 5.3	1.179	2.145	11.1	20.0	5 31	17 29.73	-36 44.2	2.155	3.130	6.2	20.7
6 10	17 19.43	- 2 17.5	1.154	2.134	9.7	19.9	6 10	17 19.63	-37 1.1	2.138	3.133	4.5	20.6
6 20	17 10.54	- 2 56.6	1.151	2.123	10.8	19.9	6 20	17 9.37	-37 4.1	2.149	3.136	5.4	20.7
6 30	17 2.64	- 4 1.4	1.169	2.113	13.8	20.1	6 30	17 0.00	-36 54.1	2.188	3.139	7.8	20.8
7 10	16 56.87	- 5 26.9	1.208	2.105	17.3	20.2	7 10	16 52.45	-36 34.5	2.250	3.142	10.6	21.0
7 20	16 53.97	- 7 6.9	1.264	2.097	20.6	20.4	7 20	16 47.26	-36 9.2	2.335	3.144	13.0	21.2
<b>384229</b>	1999 <i>RJ</i> <sub>226</sub>		6 11.2 219°89	4°0/10.6	18		<b>110200</b>	2001 <i>SR</i> <sub>199</sub>		6 11.2 148°95	6°0/10.1	17	
5 11	17 39.48	-10 12.9	2.474	3.340	10.4	18.9	5 11	17 43.03	- 6 18.2	2.145	3.001	12.1	21.0
5 21	17 33.96	-10 0.4	2.401	3.336	7.8	18.8	5 21	17 36.50	- 5 39.0	2.088	3.011	9.5	20.8
5 31	17 27.04	- 9 54.6	2.353	3.333	5.3	18.6	5 31	17 28.41	- 5 9.9	2.055	3.021	7.1	20.7
6 10	17 19.32	- 9 56.9	2.332	3.328	4.0	18.5	6 10	17 19.49	- 4 53.2	2.048	3.030	6.0	20.6
6 20	17 11.47	-10 7.6	2.339	3.324	5.1	18.6	6 20	17 10.55	- 4 50.4	2.069	3.038	7.0	20.7
6 30	17 4.21	-10 27.0	2.373	3.320	7.6	18.7	6 30	17 2.42	- 5 1.7	2.116	3.045	9.3	20.9
7 10	16 58.19	-10 54.3	2.432	3.315	10.2	18.9	7 10	16 55.80	- 5 25.8	2.187	3.052	11.9	21.0
7 20	16 53.84	-11 28.3	2.513	3.310	12.6	19.0	7 20	16 51.12	- 6 0.6	2.279	3.058	14.2	21.2
<b>491500</b>	2012 <i>JY</i> <sub>4</sub>		6 11.2 53°24	18°9/ 3.9	18		<b>384460</b>	2010 <i>BC</i> <sub>5</sub>		6 11.2 244°77	1°7/10.9	18 R	
5 11	17 44.64	+ 4 48.7	0.960	1.827	22.5	20.1	5 11	17 44.21	-17 46.6	2.254	3.127	11.0	21.8
5 21	17 38.79	+ 8 20.5	0.930	1.832	20.3	20.0	5 21	17 37.63	-17 46.1	2.161	3.108	7.9	21.6
5 31	17 30.00	+11 19.4	0.919	1.838	19.0	19.9	5 31	17 29.20	-17 47.6	2.094	3.087	4.6	21.3
6 10	17 19.63	+13 29.7	0.927	1.844	19.1	19.9	6 10	17 19.59	-17 51.4	2.054	3.066	1.8	21.1
6 20	17 9.31	+14 42.9	0.951	1.851	20.6	20.0	6 20	17 9.64	-17 57.7	2.042	3.044	4.0	21.2
6 30	17 0.65	+14 59.0	0.992	1.857	22.7	20.2	6 30	17 0.30	-18 6.7	2.060	3.021	7.6	21.4
7 10	16 54.81	+14 26.0	1.046	1.864	25.0	20.4	7 10	16 52.39	-18 19.2	2.102	2.998	11.0	21.6
7 20	16 52.36	+13 15.4	1.111	1.871	27.1	20.6	7 20	16 46.52	-18 35.5	2.167	2.974	14.0	21.7
<b>523719</b>	2014 <i>LM</i> <sub>28</sub>		6 11.2 0°19	2°9/ 2.0	17		<b>510605</b>	2012 <i>TT</i> <sub>34</sub>		6 11.2 236°98	8°0/12.1	18	
5 11	17 26.00	+35 31.0	16.679	17.175	3.0	22.5	5 11	17 50.69	-45 44.7	2.259	3.076	12.9	21.5
5 21	17 23.75	+35 56.9	16.659	17.184	2.9	22.5	5 21	17 42.83	-46 41.1	2.178	3.064	10.9	21.3
5 31	17 21.28	+36 18.0	16.654	17.193	2.9	22.5	5 31	17 32.25	-47 21.6	2.119	3.051	9.0	21.2
6 10	17 18.70	+36 33.9	16.666	17.202	2.9	22.5	6 10	17 19.92	-47 41.0	2.085	3.038	8.0	21.1
6 20	17 16.10	+36 44.4	16.693	17.211	3.0	22.5	6 20	17 7.16	-47 36.6	2.077	3.024	8.5	21.1
6 30	17 13.58	+36 49.7	16.736	17.220	3.0	22.5	6 30	16 55.41	-47 9.4	2.095	3.009	10.1	21.2
7 10	17 11.23	+36 49.9	16.793	17.229	3.1	22.5	7 10	16 45.94	-46 24.2	2.135	2.995	12.3	21.3
7 20	17 9.14	+36 45.4	16.863	17.239	3.2	22.5	7 20	16 39.49	-45 27.6	2.197	2.980	14.5	21.4
<b>255876</b>	2006 <i>SN</i> <sub>223</sub>		6 11.2 82°68	3°4/11.6	17								

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>16900</b>	Lozère		6 11.2 83°19	0°6/11.1	18		<b>393551</b>	2003 BG <sub>23</sub>		6 11.2 107°48	0°0/11.2	18	
5 11	17 41.50	-21 27.1	2.128	3.010	11.2	18.1	5 11	17 42.95	-24 57.2	2.407	3.281	10.3	20.9
5 21	17 35.55	-21 26.4	2.068	3.020	7.9	17.9	5 21	17 36.33	-24 27.7	2.351	3.299	7.3	20.8
5 31	17 27.94	-21 25.1	2.034	3.030	4.3	17.7	5 31	17 28.27	-23 54.3	2.320	3.316	4.0	20.6
6 10	17 19.44	-21 23.3	2.026	3.040	0.7	17.5	6 10	17 19.49	-23 17.7	2.318	3.333	0.4	20.3
6 20	17 10.91	-21 21.1	2.046	3.051	3.4	17.7	6 20	17 10.82	-22 39.5	2.345	3.350	3.1	20.6
6 30	17 3.21	-21 19.5	2.093	3.061	7.0	18.0	6 30	17 3.01	-22 1.8	2.400	3.366	6.4	20.8
7 10	16 57.10	-21 19.6	2.165	3.071	10.3	18.2	7 10	16 56.72	-21 27.0	2.481	3.382	9.3	21.0
7 20	16 53.02	-21 22.3	2.259	3.081	13.0	18.4	7 20	16 52.32	-20 56.8	2.585	3.397	11.8	21.2
<b>123383</b>	2000 WW <sub>58</sub>		6 11.2 230°36	1°0/11.1	18		<b>380336</b>	2002 PN <sub>141</sub>		6 11.2 232°47	10°6/13.6	18	
5 11	17 43.96	-19 22.7	2.119	2.996	11.4	19.5	5 11	18 0.91	-46 53.0	1.413	2.243	18.6	20.6
5 21	17 37.50	-19 37.3	2.037	2.986	8.2	19.3	5 21	17 51.34	-47 22.8	1.333	2.230	15.6	20.3
5 31	17 29.13	-19 53.8	1.980	2.976	4.5	19.0	5 31	17 37.33	-47 25.2	1.272	2.215	12.7	20.1
6 10	17 19.59	-20 11.5	1.951	2.965	1.1	18.8	6 10	17 20.52	-46 50.4	1.233	2.200	10.8	19.9
6 20	17 9.76	-20 29.8	1.949	2.954	3.7	19.0	6 20	17 3.32	-45 35.1	1.218	2.183	11.1	19.9
6 30	17 0.63	-20 48.7	1.976	2.942	7.5	19.2	6 30	16 48.33	-43 44.7	1.226	2.166	13.7	20.0
7 10	16 53.07	-21 8.6	2.028	2.930	11.1	19.4	7 10	16 37.38	-41 32.6	1.257	2.147	17.2	20.2
7 20	16 47.66	-21 30.1	2.102	2.917	14.1	19.5	7 20	16 31.22	-39 13.8	1.307	2.128	20.7	20.3
<b>132041</b>	2002 CL <sub>129</sub>		6 11.2 6°35	6°0/10.4	17		<b>23652</b>	1997 CW <sub>19</sub>		6 11.2 52°81	1°7/11.0	18	
5 11	17 40.92	-12 40.4	1.107	2.013	17.2	18.9	5 11	17 44.41	-19 17.8	1.314	2.212	15.6	18.7
5 21	17 36.16	-11 56.7	1.055	2.013	12.9	18.7	5 21	17 38.30	-19 17.0	1.265	2.224	11.1	18.4
5 31	17 28.64	-11 22.6	1.022	2.013	8.5	18.5	5 31	17 29.66	-19 18.4	1.239	2.237	6.1	18.2
6 10	17 19.53	-11 2.2	1.011	2.015	6.0	18.3	6 10	17 19.66	-19 22.2	1.236	2.250	1.8	17.9
6 20	17 10.28	-10 58.1	1.022	2.017	8.2	18.4	6 20	17 9.65	-19 28.3	1.258	2.263	5.0	18.2
6 30	17 2.39	-11 11.2	1.055	2.021	12.5	18.7	6 30	17 1.03	-19 37.5	1.304	2.277	9.8	18.5
7 10	16 57.05	-11 40.0	1.107	2.025	16.8	18.9	7 10	16 54.85	-19 50.6	1.372	2.291	14.1	18.8
7 20	16 54.87	-12 21.4	1.176	2.030	20.6	19.2	7 20	16 51.64	-20 8.0	1.459	2.305	17.7	19.1
<b>430307</b>	2013 XZ		6 11.2 162°48	2°0/10.8	17		<b>472800</b>	2015 FL <sub>157</sub>		6 11.2 47°56	4°9/10.6	17	
5 11	17 43.25	-17 58.3	2.050	2.929	11.7	22.1	5 11	17 41.31	-11 23.2	1.657	2.540	13.7	20.7
5 21	17 36.84	-17 40.5	1.985	2.934	8.4	21.9	5 21	17 35.69	-10 57.6	1.603	2.549	10.2	20.5
5 31	17 28.67	-17 24.2	1.943	2.937	4.8	21.7	5 31	17 28.12	-10 40.6	1.572	2.558	6.8	20.3
6 10	17 19.53	-17 10.3	1.929	2.941	2.1	21.5	6 10	17 19.50	-10 34.2	1.566	2.567	4.9	20.2
6 20	17 10.31	-16 59.8	1.943	2.944	4.2	21.7	6 20	17 10.85	-10 39.5	1.586	2.576	6.5	20.3
6 30	17 1.96	-16 53.7	1.984	2.946	7.8	21.9	6 30	17 3.20	-10 56.6	1.630	2.586	9.7	20.6
7 10	16 55.23	-16 53.0	2.050	2.949	11.1	22.1	7 10	16 57.40	-11 24.3	1.698	2.596	13.0	20.8
7 20	16 50.62	-16 58.1	2.137	2.950	13.9	22.3	7 20	16 53.94	-12 0.7	1.785	2.606	16.0	21.0
<b>443549</b>	2014 KM <sub>14</sub>		6 11.2 326°64	4°6/10.4	18		<b>114412</b>	2002 YH <sub>25</sub>		6 11.2 265°39	1°5/11.1	18	
5 11	17 38.73	-10 47.7	2.036	2.913	11.8	20.4	5 11	17 44.68	-18 44.8	1.728	2.612	13.2	19.6
5 21	17 33.71	-10 22.7	1.963	2.905	8.9	20.2	5 21	17 38.44	-18 54.7	1.643	2.595	9.5	19.4
5 31	17 27.02	-10 5.0	1.915	2.898	6.1	20.0	5 31	17 29.84	-19 7.4	1.581	2.577	5.4	19.1
6 10	17 19.36	-9 56.6	1.892	2.890	4.6	19.9	6 10	17 19.72	-19 22.7	1.546	2.559	1.5	18.8
6 20	17 11.54	-9 58.5	1.896	2.883	5.9	20.0	6 20	17 9.14	-19 39.9	1.537	2.541	4.5	19.0
6 30	17 4.42	-10 11.4	1.926	2.877	8.8	20.1	6 30	16 59.35	-19 59.2	1.554	2.522	9.0	19.2
7 10	16 58.75	-10 34.5	1.979	2.870	11.8	20.3	7 10	16 51.45	-20 20.9	1.596	2.503	13.1	19.4
7 20	16 55.04	-11 6.5	2.053	2.864	14.5	20.5	7 20	16 46.15	-20 45.6	1.657	2.484	16.7	19.6
<b>370353</b>	2002 RK <sub>277</sub>		6 11.2 248°91	2°0/11.4	17		<b>305304</b>	2008 AO <sub>34</sub>		6 11.2 115°80	3°2/12.0	18	
5 11	17 46.43	-27 42.4	1.756	2.636	13.2	21.8	5 11	17 43.65	-33 21.5	2.234	3.099	11.4	20.6
5 21	17 39.74	-28 0.1	1.673	2.622	9.7	21.5	5 21	17 37.18	-33 24.4	2.168	3.105	8.5	20.4
5 31	17 30.54	-28 12.3	1.614	2.608	5.6	21.3	5 31	17 28.88	-33 17.8	2.126	3.110	5.4	20.2
6 10	17 19.76	-28 16.9	1.581	2.593	2.1	21.0	6 10	17 19.60	-33 0.4	2.111	3.115	3.3	20.1
6 20	17 8.58	-28 12.9	1.574	2.578	4.5	21.1	6 20	17 10.28	-32 32.7	2.123	3.121	4.3	20.2
6 30	16 58.32	-28 1.4	1.594	2.563	8.8	21.4	6 30	17 1.91	-31 56.8	2.163	3.126	7.2	20.4
7 10	16 50.14	-27 45.6	1.638	2.547	12.8	21.6	7 10	16 55.28	-31 16.2	2.228	3.131	10.2	20.6
7 20	16 44.76	-27 29.0	1.702	2.530	16.3	21.7	7 20	16 50.87	-30 34.7	2.315	3.135	12.8	20.8
<b>193010</b>	2000 EJ <sub>18</sub>		6 11.2 160°91	0°7/11.1	18		<b>198469</b>	2004 XT <sub>24</sub>		6 11.2 158°82	2°1/11.8	17	
5 11	17 43.16	-20 6.3	2.231	3.107	10.9	20.4	5 11	17 45.22	-30 50.3	2.618	3.479	10.1	21.2
5 21	17 36.75	-20 22.2	2.162	3.111	7.8	20.2	5 21	17 38.02	-30 50.9	2.550	3.487	7.3	21.1
5 31	17 28.63	-20 39.1	2.119	3.115	4.3	20.0	5 31	17 29.25	-30 44.5	2.508	3.495	4.4	20.9
6 10	17 19.53	-20 56.4	2.104	3.118	0.8	19.7	6 10	17 19.65	-30 30.2	2.494	3.502	2.2	20.8
6 20	17 10.31	-21 13.4	2.117	3.121	3.4	19.9	6 20	17 10.02	-30 8.2	2.509	3.509	3.5	20.9
6 30	17 1.84	-21 30.3	2.158	3.124	7.0	20.2	6 30	17 1.22	-29 40.2	2.553	3.515	6.3	21.0
7 10	16 54.89	-21 47.5	2.224	3.126	10.2	20.4	7 10	16 53.92	-29 9.0	2.623	3.520	9.0	21.2
7 20	16 49.96	-22 5.7	2.313	3.128	13.0	20.6	7 20	16 48.58	-28 37.3	2.717	3.524	11.5	21.4
<b>268302</b>	2005 QT <sub>110</sub>		6 11.2 264°77	1°9/11.5	17		<b>328063</b>	2007 UH <sub>137</sub>		6 11.2 305°01	21°2/28.8	18	
5 11	17 45.26	-28 11.0	1.725	2.607	13.3	21.2	5 11	17 42.47	+ 8 0.5	0.984	1.841	22.9	19.7
5 21	17 38.90	-28 14.7	1.643	2.593	9.7	21.0	5 21	17 37.65	+12 8.3	0.939	1.825	21.6	19.5
5 31	17 30.07	-28 11.5	1.584	2.578	5.6	20.7	5 31	17 29.69	+15 48.2	0.914	1.810	21.2	19.4
6 10	17 19.71	-27 59.8	1.551	2.564	2.1	20.4	6 10	17 19.73	+18 40.6	0.905	1.795	22.1	19.4
6 20	17 9.00	-27 39.6	1.544	2.549	4.4	20.6	6 20	17 9.32	+20 32.4	0.913	1.781	24.0	19.5
6 30	16 59.27	-27 12.9	1.563	2.533	8.8	20.8	6 30	17 0.17	+21 19.6	0.935	1.767	26.3	19.6
7 10	16 51.62	-26 43.4	1.606	2.518	12.8	21.0	7 10	16 53.73	+21 7.7	0.967	1.754	28.6	19.7
7 20	16 46.75	-26 14.9	1.670	2.502	16.4	21.2	7 20	16 50.80	+20 7.3	1.008	1.741	30.8	19.8
<b>204763</b>	2006 JP <sub>56</sub>		6 11.2 344°54	1°2/11.1	17		<b>489637</b>	2007 TA <sub>413</sub>		6 11.2 248°48	3°4/11.4	18	
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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>236648</b>	2006 <i>KE</i> <sub>71</sub>		6 11.2 251°78	3°7/10.6	18		<b>183768</b>	2004 <i>BW</i> <sub>4</sub>		6 11.2 178°50	1°2/11.4	17	
5 11	17 41.33	-13 35.8	1.950	2.830	12.1	20.5	5 11	17 46.83	-26 18.4	1.947	2.822	12.3	21.6
5 21	17 35.62	-13 14.5	1.879	2.825	9.0	20.3	5 21	17 39.63	-26 24.9	1.877	2.824	8.9	21.4
5 31	17 28.10	-12 58.5	1.832	2.821	5.7	20.1	5 31	17 30.32	-26 26.7	1.831	2.826	5.0	21.2
6 10	17 19.54	-12 49.3	1.811	2.816	3.7	20.0	6 10	17 19.80	-26 22.5	1.812	2.826	1.3	20.9
6 20	17 10.81	-12 48.2	1.817	2.811	5.3	20.1	6 20	17 9.14	-26 12.4	1.822	2.826	3.9	21.1
6 30	17 2.86	-12 55.6	1.849	2.806	8.6	20.3	6 30	16 59.46	-25 57.8	1.858	2.826	7.8	21.4
7 10	16 56.51	-13 11.5	1.905	2.801	11.9	20.5	7 10	16 51.70	-25 41.4	1.920	2.824	11.4	21.6
7 20	16 52.29	-13 35.2	1.982	2.796	14.8	20.6	7 20	16 46.41	-25 26.0	2.003	2.823	14.5	21.8
<b>153489</b>	2001 <i>RT</i> <sub>87</sub>		6 11.2 291°48	3°3/10.6	18		<b>2451</b>	Dollfus		6 11.2 332°95	6°0/12.2	18	
5 11	17 42.43	-16 28.9	1.562	2.453	14.0	20.2	5 11	17 43.85	-36 46.7	1.525	2.401	15.1	15.4
5 21	17 36.90	-16 1.1	1.484	2.438	10.2	19.9	5 21	17 38.32	-37 13.0	1.452	2.390	11.8	15.1
5 31	17 29.02	-15 36.2	1.428	2.422	6.1	19.7	5 31	17 29.93	-37 24.6	1.400	2.379	8.3	14.9
6 10	17 19.66	-15 16.2	1.397	2.406	3.3	19.5	6 10	17 19.77	-37 17.7	1.372	2.369	6.1	14.7
6 20	17 9.94	-15 2.9	1.391	2.391	5.7	19.6	6 20	17 9.30	-36 50.8	1.368	2.360	7.1	14.8
6 30	17 1.14	-14 58.1	1.410	2.375	10.0	19.8	6 30	17 0.08	-36 6.7	1.388	2.351	10.3	14.9
7 10	16 54.31	-15 2.6	1.452	2.360	14.2	20.0	7 10	16 53.40	-35 11.5	1.430	2.343	14.0	15.1
7 20	16 50.16	-15 16.5	1.512	2.345	17.8	20.2	7 20	16 49.96	-34 11.9	1.491	2.336	17.4	15.3
<b>338800</b>	2003 <i>UM</i> <sub>400</sub>		6 11.2 243°38	0°5/11.1	18		<b>177639</b>	2004 <i>LW</i> <sub>28</sub>		6 11.2 341°54	6°1/10.5	17	
5 11	17 43.92	-23 25.2	2.287	3.162	10.8	21.5	5 11	17 38.97	-6 51.6	1.914	2.785	12.7	19.8
5 21	17 37.37	-22 52.7	2.197	3.145	7.7	21.2	5 21	17 33.96	-6 28.3	1.846	2.779	9.9	19.6
5 31	17 29.04	-22 16.0	2.132	3.128	4.2	21.0	5 31	17 27.22	-6 16.3	1.802	2.774	7.4	19.4
6 10	17 19.65	-21 35.9	2.096	3.111	0.7	20.7	6 10	17 19.47	-6 17.8	1.782	2.770	6.1	19.3
6 20	17 10.07	-20 54.1	2.088	3.092	3.5	20.9	6 20	17 11.56	-6 33.9	1.788	2.765	7.2	19.4
6 30	17 1.20	-20 12.9	2.108	3.073	7.2	21.1	6 30	17 4.39	-7 4.3	1.819	2.762	9.7	19.5
7 10	16 53.84	-19 35.1	2.155	3.054	10.6	21.3	7 10	16 58.75	-7 47.2	1.873	2.758	12.6	19.7
7 20	16 48.54	-19 2.9	2.224	3.034	13.6	21.4	7 20	16 55.15	-8 40.1	1.948	2.755	15.3	19.9
<b>391290</b>	2006 <i>SB</i> <sub>265</sub>		6 11.2 268°00	2°0/10.6	17		<b>183133</b>	2002 <i>RK</i> <sub>203</sub>		6 11.2 201°87	0°7/11.1	17	
5 11	17 40.93	-18 58.7	2.158	3.040	11.1	21.1	5 11	17 45.50	-21 1.2	1.989	2.867	12.0	21.2
5 21	17 35.26	-18 23.1	2.078	3.028	8.0	20.9	5 21	17 38.66	-21 1.7	1.914	2.863	8.6	21.0
5 31	17 27.89	-17 47.0	2.022	3.017	4.6	20.6	5 31	17 29.81	-21 1.9	1.863	2.859	4.7	20.7
6 10	17 19.53	-17 12.1	1.994	3.006	2.0	20.4	6 10	17 19.76	-21 1.4	1.839	2.853	0.9	20.4
6 20	17 11.01	-16 40.2	1.994	2.994	4.2	20.6	6 20	17 9.51	-21 0.4	1.843	2.848	3.8	20.7
6 30	17 3.21	-16 13.2	2.020	2.983	7.7	20.7	6 30	17 0.11	-20 59.8	1.875	2.841	7.8	20.9
7 10	16 56.90	-15 52.9	2.072	2.971	11.0	20.9	7 10	16 52.45	-21 0.9	1.931	2.834	11.5	21.1
7 20	16 52.58	-15 40.1	2.145	2.959	13.9	21.1	7 20	16 47.11	-21 4.9	2.010	2.826	14.6	21.3
<b>74788</b>	1999 <i>SL</i> <sub>3</sub>		6 11.2 150°47	10°2/14.6	18		<b>203009</b>	1999 <i>XV</i> <sub>96</sub>		6 11.2 228°55	0°1/11.2	18	
5 11	18 0.15	-53 21.8	2.101	2.876	15.1	19.6	5 11	17 43.61	-24 32.8	2.319	3.194	10.7	20.5
5 21	17 49.64	-54 0.7	2.042	2.886	13.2	19.5	5 21	17 37.13	-24 13.3	2.235	3.183	7.6	20.3
5 31	17 35.87	-54 15.0	2.003	2.896	11.4	19.4	5 31	17 28.90	-23 49.8	2.175	3.171	4.2	20.1
6 10	17 20.38	-53 58.8	1.987	2.905	10.4	19.4	6 10	17 19.66	-23 22.5	2.144	3.159	0.5	19.7
6 20	17 5.07	-53 11.0	1.996	2.913	10.4	19.4	6 20	17 10.25	-22 52.3	2.141	3.146	3.3	20.0
6 30	16 51.77	-51 55.4	2.030	2.921	11.5	19.5	6 30	17 1.57	-22 21.3	2.166	3.133	6.9	20.2
7 10	16 41.75	-50 20.6	2.086	2.927	13.3	19.6	7 10	16 54.40	-21 51.8	2.217	3.119	10.3	20.4
7 20	16 35.53	-48 35.9	2.164	2.933	15.1	19.8	7 20	16 49.26	-21 26.0	2.291	3.104	13.1	20.5
<b>335818</b>	2007 <i>JV</i> <sub>17</sub>		6 11.2 280°77	7°4/10.3	18		<b>71423</b>	2000 <i>AT</i> <sub>195</sub>		6 11.2 211°28	4°2/10.3	18	
5 11	17 41.79	-4 8.3	1.838	2.698	13.6	21.0	5 11	17 41.43	-10 32.6	2.441	3.306	10.6	20.6
5 21	17 36.15	-3 41.3	1.756	2.679	11.0	20.7	5 21	17 35.41	-10 5.7	2.364	3.299	8.0	20.4
5 31	17 28.51	-3 28.0	1.696	2.659	8.5	20.6	5 31	17 27.91	-9 44.8	2.312	3.292	5.5	20.3
6 10	17 19.61	-3 31.4	1.661	2.640	7.4	20.4	6 10	17 19.56	-9 31.6	2.288	3.284	4.2	20.2
6 20	17 10.36	-3 53.4	1.652	2.620	8.5	20.5	6 20	17 11.06	-9 27.1	2.292	3.275	5.3	20.2
6 30	17 1.79	-4 33.5	1.667	2.601	11.1	20.6	6 30	17 3.17	-9 32.0	2.323	3.266	7.9	20.4
7 10	16 54.82	-5 29.8	1.705	2.581	14.1	20.7	7 10	16 56.56	-9 46.2	2.379	3.257	10.6	20.5
7 20	16 50.10	-6 38.6	1.763	2.561	17.0	20.9	7 20	16 51.70	-10 8.7	2.457	3.247	13.0	20.7
<b>242742</b>	2005 <i>UG</i> <sub>480</sub>		6 11.2 226°46	5°0/10.7	18		<b>73043</b>	2002 <i>EC</i> <sub>98</sub>		6 11.2 357°08	1°2/11.2	18	
5 11	17 39.88	-5 39.9	2.627	3.479	10.3	20.6	5 11	17 38.74	-19 18.5	0.939	1.860	18.0	17.9
5 21	17 34.23	-5 33.1	2.551	3.472	8.1	20.4	5 21	17 35.23	-19 44.3	0.884	1.854	13.0	17.6
5 31	17 27.24	-5 35.9	2.499	3.465	6.0	20.3	5 31	17 28.45	-20 16.1	0.848	1.850	7.2	17.3
6 10	17 19.46	-5 49.4	2.475	3.458	5.0	20.2	6 10	17 19.64	-20 52.4	0.832	1.847	1.4	16.9
6 20	17 11.53	-6 14.1	2.478	3.450	5.8	20.2	6 20	17 10.44	-21 30.9	0.837	1.846	5.7	17.2
6 30	17 4.14	-6 49.4	2.509	3.442	7.9	20.3	6 30	17 2.71	-22 10.3	0.863	1.847	11.7	17.5
7 10	16 57.89	-7 34.0	2.564	3.434	10.2	20.5	7 10	16 57.92	-22 49.9	0.908	1.849	17.0	17.8
7 20	16 53.22	-8 26.0	2.643	3.425	12.4	20.6	7 20	16 56.84	-23 29.5	0.969	1.854	21.5	18.1
<b>140792</b>	2001 <i>UW</i> <sub>143</sub>		6 11.2 160°33	1°9/11.4	18		<b>356386</b>	2010 <i>OK</i> <sub>49</sub>		6 11.2 327°53	0°9/11.1	18	
5 11	17 43.21	-27 58.1	2.364	3.236	10.6	20.3	5 11	17 39.61	-20 39.9	1.789	2.681	12.4	20.4
5 21	17 36.84	-28 25.1	2.294	3.239	7.7	20.1	5 21	17 34.74	-20 41.1	1.708	2.664	8.9	20.2
5 31	17 28.73	-28 47.9	2.250	3.242	4.5	19.9	5 31	17 27.79	-20 43.0	1.650	2.648	4.9	19.9
6 10	17 19.62	-29 4.7	2.233	3.244	1.9	19.7	6 10	17 19.56	-20 45.5	1.618	2.633	1.0	19.6
6 20	17 10.36	-29 14.7	2.244	3.246	3.6	19.9	6 20	17 11.01	-20 48.7	1.612	2.618	4.1	19.8
6 30	17 1.85	-29 18.4	2.284	3.248	6.8	20.1	6 30	17 3.24	-20 53.4	1.632	2.604	8.3	20.0
7 10	16 54.87	-29 17.5	2.349	3.250	9.8	20.3	7 10	16 57.19	-21 0.6	1.675	2.590	12.2	20.2
7 20	16 49.93	-29 14.2	2.436	3.252	12.4	20.4	7 20	16 53.51	-21 11.1	1.739	2.577	15.6	20.4
<b>379331</b>	2009 <i>WG</i> <sub>73</sub>		6 11.2 278°73	0°3/11.2	17		<b>106273</b>	2000 <i>UB</i> <sub>68</sub>					

EPHEMERIDES

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>106494</b>	2000 WL <sub>30</sub>		6 11.2 93°70	0°1/11.2 18			<b>478358</b>	2011 YJ <sub>3</sub>		6 11.2 236°10	6°2/13.6 18		
5 11	17 42.25	-21 23.6	2.315	3.192	10.6	19.2	5 11	17 48.19	-46 3.6	2.743	3.552	11.1	20.7
5 21	17 36.07	-21 49.1	2.254	3.203	7.5	19.0	5 21	17 40.42	-46 6.9	2.658	3.541	9.2	20.6
5 31	17 28.28	-22 14.7	2.218	3.214	4.1	18.8	5 31	17 30.70	-45 54.1	2.596	3.531	7.4	20.4
6 10	17 19.60	-22 39.6	2.210	3.225	0.5	18.6	6 10	17 19.91	-45 22.9	2.560	3.520	6.3	20.4
6 20	17 10.84	-23 2.8	2.231	3.236	3.2	18.8	6 20	17 9.08	-44 33.0	2.551	3.509	6.5	20.4
6 30	17 2.83	-23 24.1	2.280	3.247	6.6	19.0	6 30	16 59.28	-43 26.8	2.570	3.497	8.0	20.4
7 10	16 56.28	-23 44.3	2.354	3.258	9.7	19.3	7 10	16 51.35	-42 9.0	2.614	3.485	10.0	20.5
7 20	16 51.67	-24 3.9	2.451	3.268	12.3	19.5	7 20	16 45.78	-40 45.2	2.682	3.473	12.0	20.7
<b>394748</b>	2008 FJ <sub>39</sub>		6 11.2 75°35	2°7/11.5 16			<b>256904</b>	2008 DY <sub>63</sub>		6 11.2 58°64	0°5/11.3 17		
5 11	17 43.12	-29 52.9	2.233	3.105	11.1	21.1	5 11	17 45.30	-23 56.3	1.392	2.286	15.1	20.7
5 21	17 36.86	-30 28.3	2.170	3.113	8.1	20.9	5 21	17 38.99	-24 6.6	1.340	2.297	10.8	20.4
5 31	17 28.79	-30 58.0	2.133	3.121	5.0	20.7	5 31	17 30.12	-24 14.2	1.311	2.309	5.9	20.2
6 10	17 19.67	-31 19.9	2.122	3.130	2.7	20.6	6 10	17 19.85	-24 17.8	1.306	2.321	0.9	19.8
6 20	17 10.42	-31 32.8	2.139	3.138	4.1	20.7	6 20	17 9.55	-24 17.2	1.326	2.333	4.5	20.1
6 30	17 2.01	-31 37.4	2.183	3.146	7.1	20.9	6 30	17 0.62	-24 13.9	1.371	2.345	9.3	20.5
7 10	16 55.25	-31 35.6	2.252	3.154	10.1	21.1	7 10	16 54.12	-24 10.3	1.438	2.357	13.6	20.7
7 20	16 50.65	-31 30.0	2.344	3.163	12.7	21.3	7 20	16 50.61	-24 8.7	1.525	2.370	17.1	21.0
<b>199525</b>	2006 DJ <sub>156</sub>		6 11.2 259°14	1°1/11.1 18			<b>294794</b>	2008 CJ <sub>71</sub>		6 11.2 174°46	0°8/11.1 17		
5 11	17 43.01	-20 29.7	1.891	2.775	12.2	20.8	5 11	17 45.85	-21 37.4	1.807	2.688	12.8	21.5
5 21	17 37.02	-20 24.6	1.812	2.764	8.8	20.6	5 21	17 38.99	-21 25.0	1.739	2.691	9.2	21.3
5 31	17 28.98	-20 19.6	1.757	2.753	4.9	20.3	5 31	17 30.01	-21 11.2	1.696	2.693	5.0	21.0
6 10	17 19.70	-20 14.8	1.728	2.742	1.2	20.0	6 10	17 19.84	-20 56.2	1.679	2.694	1.0	20.7
6 20	17 10.15	-20 10.5	1.726	2.730	4.0	20.2	6 20	17 9.56	-20 40.7	1.690	2.695	4.1	21.0
6 30	17 1.41	-20 8.0	1.751	2.719	8.2	20.5	6 30	17 0.29	-20 26.6	1.728	2.695	8.3	21.2
7 10	16 54.40	-20 8.4	1.800	2.707	11.9	20.7	7 10	16 52.95	-20 15.8	1.790	2.695	12.1	21.4
7 20	16 49.74	-20 12.8	1.870	2.695	15.2	20.9	7 20	16 48.11	-20 9.8	1.872	2.694	15.3	21.7
<b>102449</b>	1999 TC <sub>217</sub>		6 11.2 159°62	1°8/10.9 17			<b>466264</b>	2013 LN		6 11.2 310°49	1°4/10.9 17		
5 11	17 45.74	-18 58.8	1.932	2.810	12.3	20.9	5 11	17 42.64	-22 30.8	1.211	2.116	16.1	20.8
5 21	17 38.70	-18 37.8	1.868	2.817	8.8	20.7	5 21	17 37.74	-21 54.0	1.132	2.094	11.7	20.5
5 31	17 29.76	-18 17.3	1.829	2.824	5.0	20.5	5 31	17 29.80	-21 12.0	1.073	2.072	6.5	20.1
6 10	17 19.77	-17 58.2	1.817	2.829	1.9	20.3	6 10	17 19.85	-20 26.2	1.037	2.051	1.5	19.7
6 20	17 9.74	-17 41.7	1.833	2.834	4.3	20.5	6 20	17 9.37	-19 39.7	1.024	2.030	5.6	19.9
6 30	17 0.67	-17 29.2	1.876	2.839	8.1	20.7	6 30	17 0.02	-18 57.0	1.034	2.010	11.3	20.2
7 10	16 53.41	-17 22.2	1.943	2.842	11.6	20.9	7 10	16 53.24	-18 22.7	1.065	1.991	16.6	20.4
7 20	16 48.46	-17 21.4	2.033	2.845	14.6	21.1	7 20	16 49.87	-17 59.7	1.113	1.972	21.1	20.6
<b>390202</b>	2012 XP		6 11.2 107°26	1°8/10.7 17			<b>428166</b>	2006 SY <sub>366</sub>		6 11.2 190°56	1°2/10.9 17		
5 11	17 42.03	-19 54.5	2.130	3.010	11.2	20.8	5 11	17 45.29	-21 27.3	1.733	2.618	13.2	21.3
5 21	17 35.89	-19 12.5	2.069	3.019	8.0	20.6	5 21	17 38.66	-20 58.6	1.664	2.617	9.4	21.0
5 31	17 28.16	-18 29.8	2.033	3.028	4.5	20.4	5 31	17 29.86	-20 27.7	1.619	2.616	5.2	20.8
6 10	17 19.59	-17 48.1	2.024	3.036	1.8	20.3	6 10	17 19.83	-19 55.7	1.601	2.615	1.3	20.5
6 20	17 11.05	-17 9.4	2.044	3.045	4.0	20.4	6 20	17 9.70	-19 24.4	1.609	2.613	4.4	20.7
6 30	17 3.38	-16 35.9	2.091	3.053	7.4	20.7	6 30	17 0.60	-18 56.3	1.644	2.611	8.7	21.0
7 10	16 57.29	-16 9.3	2.163	3.062	10.6	20.9	7 10	16 53.48	-18 34.0	1.702	2.608	12.6	21.2
7 20	16 53.20	-15 50.7	2.257	3.070	13.3	21.1	7 20	16 48.91	-18 18.9	1.781	2.605	15.9	21.4
<b>106981</b>	2000 YU <sub>96</sub>		6 11.2 261°51	0°7/11.1 18			<b>434708</b>	2006 CQ <sub>52</sub>		6 11.2 200°02	3°5/10.7 17		
5 11	17 45.57	-21 34.5	1.591	2.479	13.9	19.7	5 11	17 42.98	-12 57.4	2.173	3.044	11.4	22.3
5 21	17 39.26	-21 34.5	1.509	2.464	10.0	19.4	5 21	17 36.68	-12 42.0	2.100	3.041	8.4	22.1
5 31	17 30.39	-21 33.9	1.450	2.448	5.5	19.1	5 31	17 28.69	-12 31.9	2.051	3.037	5.4	21.9
6 10	17 19.88	-21 32.2	1.416	2.431	0.9	18.7	6 10	17 19.71	-12 28.5	2.029	3.033	3.5	21.8
6 20	17 8.93	-21 29.5	1.408	2.414	4.5	19.0	6 20	17 10.59	-12 32.3	2.035	3.028	5.0	21.9
6 30	16 58.90	-21 27.0	1.427	2.397	9.4	19.2	6 30	17 2.18	-12 43.8	2.069	3.022	8.1	22.0
7 10	16 50.98	-21 26.5	1.468	2.380	13.8	19.4	7 10	16 55.24	-13 2.9	2.127	3.016	11.2	22.2
7 20	16 45.91	-21 29.9	1.529	2.362	17.6	19.6	7 20	16 50.29	-13 28.7	2.207	3.010	13.9	22.4
<b>61923</b>	2000 RF <sub>2</sub>		6 11.2 322°68	3°1/11.6 18			<b>69639</b>	1998 FR <sub>75</sub>		6 11.2 181°90	3°0/11.5 18		
5 11	17 43.51	-28 51.2	1.160	2.063	16.8	18.9	5 11	17 48.15	-29 4.3	1.628	2.508	14.1	18.8
5 21	17 38.58	-29 10.0	1.089	2.048	12.4	18.6	5 21	17 41.07	-29 42.2	1.561	2.508	10.4	18.5
5 31	17 30.32	-29 20.7	1.038	2.034	7.4	18.3	5 31	17 31.35	-30 13.8	1.517	2.508	6.3	18.3
6 10	17 19.88	-29 19.8	1.008	2.020	3.3	18.0	6 10	17 20.02	-30 35.7	1.499	2.508	3.1	18.1
6 20	17 8.91	-29 6.2	1.002	2.008	5.9	18.1	6 20	17 8.42	-30 45.8	1.507	2.508	5.1	18.2
6 30	16 59.29	-28 42.2	1.018	1.996	11.2	18.3	6 30	16 57.96	-30 45.1	1.540	2.507	9.2	18.4
7 10	16 52.55	-28 13.0	1.054	1.985	16.3	18.6	7 10	16 49.84	-30 37.0	1.598	2.506	13.1	18.7
7 20	16 49.55	-27 43.9	1.108	1.974	20.7	18.8	7 20	16 44.73	-30 25.4	1.675	2.505	16.5	18.9
<b>469550</b>	2003 UZ <sub>58</sub>		6 11.2 215°96	1°9/11.7 17			<b>119020</b>	2001 AH <sub>38</sub>		6 11.2 144°70	0°2/11.2 18		
5 11	17 44.52	-29 59.4	2.539	3.403	10.2	21.8	5 11	17 41.87	-22 25.3	2.598	3.472	9.7	19.7
5 21	17 37.72	-29 55.9	2.454	3.394	7.5	21.6	5 21	17 35.74	-22 51.1	2.529	3.477	6.9	19.5
5 31	17 29.22	-29 45.6	2.395	3.384	4.4	21.4	5 31	17 28.12	-23 16.4	2.486	3.482	3.7	19.3
6 10	17 19.74	-29 27.6	2.364	3.374	2.0	21.2	6 10	17 19.66	-23 40.4	2.472	3.487	0.5	19.1
6 20	17 10.11	-29 2.2	2.361	3.363	3.5	21.3	6 20	17 11.06	-24 2.1	2.486	3.491	2.9	19.3
6 30	17 1.20	-28 31.1	2.388	3.352	6.5	21.5	6 30	17 3.10	-24 21.5	2.529	3.496	6.1	19.5
7 10	16 53.78	-27 57.1	2.441	3.340	9.5	21.7	7 10	16 56.45	-24 39.2	2.599	3.500	9.0	19.7
7 20	16 48.35	-27 23.1	2.517	3.327	12.2	21.8	7 20	16 51.55	-24 56.0	2.691	3.504	11.4	19.9
<b>365045</b>	2008 UA <sub>228</sub>		6 11.2 274°64	3°8/12.2 18			<b>84064</b>	2002 PK <sub>126</sub>		6 11.2 246°25	1°2/11.4 18		
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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	
<b>276500</b>	2003 <i>QV</i> <sub>55</sub> 6 11.2 276°03' 6°0'/10.4 18							<b>279098</b>	2008 <i>XB</i> <sub>11</sub> 6 11.2 310°01' 5°4'/9.9 18					
5 11	17 41.86	- 7 10.5	1.930	2.796	12.8	20.3	5 11	17 41.03	-13 8.4	1.511	2.402	14.3	20.2	
5 21	17 36.18	- 6 46.9	1.845	2.777	10.1	20.1	5 21	17 36.17	-12 15.1	1.418	2.368	10.9	19.9	
5 31	17 28.57	- 6 33.9	1.784	2.757	7.4	19.9	5 31	17 28.82	-11 25.5	1.346	2.334	7.3	19.6	
6 10	17 19.74	- 6 34.0	1.748	2.737	6.1	19.8	6 10	17 19.80	-10 43.6	1.299	2.301	5.4	19.4	
6 20	17 10.56	- 6 48.6	1.738	2.716	7.3	19.8	6 20	17 10.18	-10 13.3	1.276	2.267	7.5	19.4	
6 30	17 2.04	- 7 17.9	1.754	2.696	10.1	19.9	6 30	17 1.26	- 9 57.7	1.277	2.234	11.6	19.6	
7 10	16 55.05	- 8 0.6	1.793	2.675	13.3	20.1	7 10	16 54.25	- 9 58.3	1.299	2.201	15.9	19.7	
7 20	16 50.22	- 8 54.1	1.852	2.654	16.2	20.2	7 20	16 49.96	-10 14.4	1.340	2.169	19.8	19.9	
<b>137978</b>	2000 <i>CL</i> <sub>43</sub> 6 11.2 175°13' 0°1'/11.3 17							<b>436486</b>	2011 <i>EU</i> <sub>25</sub> 6 11.2 61°46' 0°6'/11.3 17					
5 11	17 46.14	-23 55.7	1.994	2.871	12.0	21.3	5 11	17 46.14	-23 18.7	1.522	2.411	14.4	20.8	
5 21	17 39.08	-23 50.4	1.925	2.874	8.6	21.1	5 21	17 39.31	-23 43.3	1.481	2.435	10.2	20.6	
5 31	17 30.04	-23 42.0	1.880	2.876	4.7	20.9	5 31	17 30.19	-24 6.0	1.462	2.460	5.5	20.4	
6 10	17 19.89	-23 30.1	1.863	2.878	0.5	20.6	6 10	17 19.91	-24 25.0	1.469	2.484	0.8	20.1	
6 20	17 9.62	-23 15.2	1.873	2.878	3.7	20.8	6 20	17 9.73	-24 39.5	1.502	2.509	4.2	20.5	
6 30	17 0.30	-22 58.9	1.911	2.879	7.6	21.0	6 30	17 0.90	-24 50.0	1.561	2.533	8.6	20.8	
7 10	16 52.80	-22 43.5	1.975	2.878	11.2	21.3	7 10	16 54.35	-24 58.5	1.643	2.558	12.5	21.1	
7 20	16 47.64	-22 31.0	2.060	2.877	14.2	21.5	7 20	16 50.56	-25 6.8	1.746	2.582	15.6	21.3	
<b>181338</b>	2006 <i>QK</i> <sub>147</sub> 6 11.2 254°13' 1°7'/11.5 17							<b>446682</b>	2015 <i>OP</i> <sub>14</sub> 6 11.2 322°65' 0°5'/11.2 18					
5 11	17 46.59	-27 14.8	1.722	2.603	13.4	21.3	5 11	17 40.24	-21 41.2	1.874	2.763	12.1	20.5	
5 21	17 39.95	-27 24.2	1.638	2.587	9.8	21.1	5 21	17 35.13	-21 42.2	1.794	2.749	8.7	20.3	
5 31	17 30.78	-27 28.0	1.577	2.571	5.6	20.8	5 31	17 28.03	-21 42.8	1.738	2.736	4.8	20.0	
6 10	17 19.99	-27 24.3	1.541	2.554	1.8	20.5	6 10	17 19.69	-21 42.8	1.708	2.723	0.7	19.7	
6 20	17 8.79	-27 12.7	1.533	2.537	4.4	20.6	6 20	17 11.08	-21 42.4	1.704	2.710	3.8	19.9	
6 30	16 58.51	-26 54.6	1.550	2.520	8.9	20.9	6 30	17 3.24	-21 42.5	1.726	2.698	8.0	20.1	
7 10	16 50.33	-26 33.3	1.592	2.502	13.0	21.1	7 10	16 57.08	-21 44.3	1.773	2.686	11.7	20.3	
7 20	16 44.97	-26 12.6	1.653	2.483	16.6	21.3	7 20	16 53.22	-21 48.9	1.840	2.675	15.0	20.5	
<b>83836</b>	2001 <i>UD</i> <sub>30</sub> 6 11.2 174°83' 4°8'/10.4 18							<b>425772</b>	2011 <i>CY</i> <sub>36</sub> 6 11.2 10°31' 4°0'/11.9 17					
5 11	17 40.22	- 8 47.6	2.267	3.133	11.2	19.6	5 11	17 43.20	-32 5.4	1.274	2.169	16.2	20.6	
5 21	17 34.63	- 8 22.2	2.201	3.133	8.6	19.4	5 21	17 37.93	-32 14.6	1.217	2.170	12.0	20.3	
5 31	17 27.54	- 8 4.8	2.159	3.134	6.1	19.2	5 31	17 29.74	-32 11.3	1.181	2.173	7.6	20.1	
6 10	17 19.61	- 7 57.2	2.143	3.135	4.8	19.1	6 10	17 19.88	-31 53.0	1.168	2.176	4.2	19.9	
6 20	17 11.59	- 8 0.4	2.155	3.135	5.9	19.2	6 20	17 9.92	-31 20.2	1.178	2.181	5.9	20.0	
6 30	17 4.25	- 8 14.7	2.193	3.135	8.4	19.4	6 30	17 1.47	-30 36.8	1.212	2.186	10.2	20.3	
7 10	16 58.26	- 8 39.2	2.256	3.135	11.0	19.5	7 10	16 55.73	-29 48.8	1.267	2.193	14.5	20.5	
7 20	16 54.07	- 9 12.5	2.340	3.135	13.4	19.7	7 20	16 53.31	-29 1.8	1.341	2.200	18.2	20.8	
<b>247127</b>	2000 <i>VA</i> <sub>12</sub> 6 11.2 272°22' 0°7'/11.1 17							<b>338674</b>	2003 <i>SN</i> <sub>429</sub> 6 11.2 185°13' 2°2'/10.7 18					
5 11	17 46.03	-21 40.4	1.550	2.438	14.2	21.0	5 11	17 42.36	-17 39.3	2.382	3.256	10.4	21.6	
5 21	17 39.77	-21 36.9	1.461	2.416	10.3	20.7	5 21	17 36.11	-17 8.8	2.310	3.256	7.5	21.4	
5 31	17 30.80	-21 32.3	1.395	2.392	5.7	20.4	5 31	17 28.33	-16 39.2	2.263	3.255	4.4	21.2	
6 10	17 20.01	-21 26.4	1.354	2.369	0.9	20.0	6 10	17 19.72	-16 11.9	2.244	3.254	2.2	21.1	
6 20	17 8.65	-21 19.2	1.339	2.344	4.7	20.2	6 20	17 11.03	-15 48.1	2.254	3.253	4.0	21.2	
6 30	16 58.14	-21 12.2	1.349	2.320	9.8	20.4	6 30	17 3.05	-15 29.3	2.292	3.251	7.1	21.4	
7 10	16 49.78	-21 7.8	1.382	2.295	14.5	20.6	7 10	16 56.47	-15 16.7	2.356	3.249	10.1	21.6	
7 20	16 44.39	-21 7.9	1.435	2.270	18.5	20.8	7 20	16 51.73	-15 10.8	2.442	3.246	12.7	21.7	
<b>187095</b>	2005 <i>QL</i> <sub>5</sub> 6 11.2 270°86' 4°6'/10.6 18							<b>56221</b>	1999 <i>JK</i> <sub>7</sub> 6 11.2 318°59' 1°1'/11.2 18					
5 11	17 42.98	-12 45.5	1.646	2.529	13.8	20.1	5 11	17 41.95	-18 30.7	1.925	2.809	12.1	18.6	
5 21	17 37.19	-12 18.5	1.570	2.517	10.3	19.8	5 21	17 36.27	-18 55.4	1.850	2.802	8.7	18.4	
5 31	17 29.19	-11 58.0	1.516	2.504	6.7	19.6	5 31	17 28.62	-19 23.6	1.799	2.795	4.8	18.1	
6 10	17 19.81	-11 46.6	1.487	2.491	4.6	19.4	6 10	17 19.76	-19 54.4	1.774	2.788	1.2	17.8	
6 20	17 10.12	-11 45.6	1.485	2.478	6.4	19.5	6 20	17 10.63	-20 26.8	1.776	2.781	3.9	18.0	
6 30	17 1.29	-11 56.1	1.507	2.465	10.1	19.7	6 30	17 2.24	-20 59.9	1.806	2.775	7.9	18.3	
7 10	16 54.33	-12 17.7	1.552	2.451	13.9	19.9	7 10	16 55.51	-21 33.6	1.860	2.769	11.5	18.5	
7 20	16 49.89	-12 49.3	1.616	2.438	17.3	20.1	7 20	16 51.03	-22 8.0	1.935	2.763	14.6	18.7	
<b>291168</b>	2006 <i>AM</i> <sub>24</sub> 6 11.2 205°55' 0°7'/11.3 16							<b>507221</b>	2010 <i>WP</i> <sub>26</sub> 6 11.2 294°48' 1°1'/11.4 17					
5 11	17 48.29	-25 1.8	1.602	2.485	14.1	21.7	5 11	17 44.92	-25 24.5	1.409	2.303	15.0	22.3	
5 21	17 41.12	-25 4.5	1.530	2.481	10.2	21.5	5 21	17 39.27	-25 30.7	1.322	2.279	10.9	22.0	
5 31	17 31.37	-25 3.0	1.480	2.476	5.6	21.2	5 31	17 30.65	-25 32.7	1.256	2.254	6.2	21.6	
6 10	17 20.06	-24 55.9	1.456	2.471	1.0	20.8	6 10	17 20.02	-25 28.7	1.215	2.229	1.3	21.2	
6 20	17 8.48	-24 43.4	1.459	2.465	4.4	21.1	6 20	17 8.73	-25 18.1	1.198	2.204	4.9	21.4	
6 30	16 58.03	-24 27.1	1.489	2.459	9.1	21.3	6 30	16 58.39	-25 2.7	1.205	2.180	10.3	21.7	
7 10	16 49.85	-24 10.4	1.541	2.451	13.4	21.6	7 10	16 50.43	-24 45.8	1.235	2.155	15.2	21.9	
7 20	16 44.62	-23 56.3	1.614	2.444	17.0	21.8	7 20	16 45.74	-24 31.2	1.283	2.131	19.5	22.1	
<b>153690</b>	2001 <i>UH</i> <sub>15</sub> 6 11.2 307°94' 2°5'/11.0 18							<b>111509</b>	2001 <i>YL</i> <sub>79</sub> 6 11.2 92°19' 0°6'/11.3 18					
5 11	17 42.32	-17 12.5	1.464	2.359	14.5	18.9	5 11	17 41.92	-24 52.3	2.231	3.110	10.9	19.8	
5 21	17 37.10	-17 13.1	1.383	2.339	10.6	18.6	5 21	17 35.93	-25 0.0	2.168	3.118	7.7	19.6	
5 31	17 29.32	-17 18.5	1.324	2.320	6.1	18.3	5 31	17 28.28	-25 4.8	2.130	3.126	4.3	19.4	
6 10	17 19.85	-17 29.0	1.288	2.301	2.5	18.0	6 10	17 19.72	-25 6.2	2.119	3.134	0.8	19.1	
6 20	17 9.87	-17 44.9	1.278	2.282	5.3	18.2	6 20	17 11.08	-25 4.0	2.136	3.142	3.3	19.4	
6 30	17 0.77	-18 6.2	1.293	2.264	10.1	18.4	6 30	17 3.26	-24 59.3	2.181	3.149	6.7	19.6	
7 10	16 53.75	-18 33.1	1.329	2.246	14.6	18.6	7 10	16 56.99	-24 53.6	2.250	3.157	9.9	19.8	
7 20	16 49.61	-19 5.3	1.384	2.228	18.5	18.8	7 20	16 52.73	-24 48.6	2.342	3.165	12.6	20.0	
<b>128444</b>	2004 <i>NQ</i> <sub>16</sub> 6 11.2 320°72' 0°1'/11.2 18							<b>225519</b>	2000 <i>QR</i> <sub>211</sub> 6 11.2 250°65' 1°3'/11.5 18					
5 11	17 42.58	-22 27.9	1.445	2.341	14.5	19.4	5 11	17 45.14	-27 6.5	1.992	2.869	12.0	21.1	
5 21	17 37.31	-22 42.8	1.370	2.329	10.4	19.1	5 21	17 38.61	-27 7.1	1.906	2.853	8.7	20.9	
5 31	17 29.42	-22 57.5	1.318	2.316	5.8	18.8	5 31	17 29.94	-27 2.3	1.843	2.837	5.0	20.6	
6 10	17 19.85	-23 10.9	1.289	2.304	0.7	18.4	6 10	17 19.92	-26 50.9	1.807	2.821	1.5	20.3	
6 20	17 9.88	-23 22.0	1.286	2.293	4.6	18.6	6 20	17 9.59	-26 32.9	1.799	2.804	3.9	20.5	
6 30	17 0.91	-23 31.4	1.307	2.282	9.6	18.9	6 30	17 0.08	-26 10.1	1.818	2.786	7.9	20.7	
7 10	16 54.17	-23 40.7	1.351	2.272	14.1	19.1	7 10	16 52.35	-25 45.3	1.862	2.768	11.6	20.9	
7 20	16 50.39	-23 51.4	1.413	2.262	18.0	19.4	7 20	16 47.06	-25 21.6	1.927	2.750	14.9	21.0	



EPHEMERIDES

6 11.2

6 11.3

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>425237</b>	2009 WL <sub>10</sub>		6 11.2 188°76	2°5/10.8 18			<b>475072</b>	2005 US <sub>139</sub>		6 11.3 250°27	0°4/11.2 18		
5 11	17 43.44	-15 43.6	2.332	3.203	10.7	21.9	5 11	17 40.92	-22 3.8	2.496	3.373	9.9	22.2
5 21	17 36.93	-15 27.5	2.259	3.203	7.8	21.8	5 21	17 35.21	-21 58.3	2.412	3.361	7.1	22.0
5 31	17 28.82	-15 14.4	2.211	3.201	4.7	21.6	5 31	17 27.94	-21 51.6	2.353	3.349	3.9	21.7
6 10	17 19.80	-15 4.9	2.190	3.199	2.6	21.4	6 10	17 19.75	-21 43.7	2.322	3.337	0.6	21.5
6 20	17 10.66	-15 0.1	2.199	3.196	4.2	21.5	6 20	17 11.37	-21 35.0	2.319	3.324	3.1	21.6
6 30	17 2.23	-15 0.5	2.235	3.192	7.4	21.7	6 30	17 3.60	-21 26.5	2.344	3.311	6.5	21.8
7 10	16 55.21	-15 6.6	2.297	3.188	10.4	21.9	7 10	16 57.13	-21 19.5	2.395	3.298	9.6	22.0
7 20	16 50.09	-15 18.5	2.382	3.183	13.0	22.1	7 20	16 52.46	-21 15.1	2.469	3.284	12.2	22.2
<b>395659</b>	2011 WO <sub>78</sub>		6 11.3 181°36	0°2/11.3 18			<b>26384</b>	1999 QP <sub>2</sub>		6 11.3 102°68	4°4/12.3 18		
5 11	17 42.31	-22 18.7	2.532	3.406	9.9	20.9	5 11	17 49.75	-34 35.9	1.555	2.427	15.1	17.7
5 21	17 36.14	-22 48.5	2.458	3.406	7.0	20.7	5 21	17 42.11	-34 39.0	1.501	2.440	11.3	17.5
5 31	17 28.42	-23 18.3	2.411	3.406	3.8	20.5	5 31	17 31.83	-34 27.9	1.469	2.453	7.4	17.3
6 10	17 19.77	-23 46.8	2.391	3.406	0.5	20.3	6 10	17 20.18	-34 0.2	1.462	2.467	4.5	17.2
6 20	17 10.94	-24 13.0	2.401	3.406	3.0	20.5	6 20	17 8.63	-33 16.9	1.481	2.479	5.8	17.3
6 30	17 2.74	-24 36.6	2.439	3.405	6.3	20.7	6 30	16 58.64	-32 22.3	1.526	2.492	9.3	17.5
7 10	16 55.86	-24 58.2	2.503	3.405	9.2	20.9	7 10	16 51.27	-31 22.8	1.594	2.504	13.0	17.8
7 20	16 50.80	-25 18.5	2.591	3.404	11.8	21.0	7 20	16 47.03	-30 24.4	1.683	2.516	16.3	18.0
<b>190051</b>	2004 RL <sub>174</sub>		6 11.3 63°71	8°9/ 9.5 18			<b>383332</b>	2006 KY <sub>57</sub>		6 11.3 359°69	2°2/11.0 17		
5 11	17 41.59	- 3 18.0	1.620	2.485	14.9	19.7	5 11	17 41.87	-17 27.7	1.730	2.618	13.0	20.9
5 21	17 35.93	- 2 8.5	1.572	2.494	12.1	19.5	5 21	17 36.28	-17 23.8	1.664	2.617	9.4	20.7
5 31	17 28.35	- 1 14.3	1.546	2.503	9.8	19.4	5 31	17 28.65	-17 23.2	1.622	2.617	5.4	20.5
6 10	17 19.75	- 0 40.1	1.544	2.513	8.9	19.3	6 10	17 19.83	-17 26.4	1.605	2.617	2.2	20.3
6 20	17 11.16	- 0 28.6	1.566	2.522	9.9	19.4	6 20	17 10.85	-17 33.6	1.614	2.617	4.6	20.4
6 30	17 3.59	- 0 39.9	1.611	2.532	12.2	19.6	6 30	17 2.79	-17 45.3	1.649	2.617	8.6	20.7
7 10	16 57.85	- 1 11.3	1.677	2.542	14.9	19.8	7 10	16 56.55	-18 1.8	1.708	2.618	12.3	20.9
7 20	16 54.44	- 1 58.9	1.762	2.552	17.4	20.0	7 20	16 52.70	-18 23.1	1.787	2.618	15.5	21.1
<b>205706</b>	2002 AE <sub>35</sub>		6 11.3 174°70	0°5/11.3 18 R			<b>501639</b>	2014 SE <sub>216</sub>		6 11.3 240°70	3°4/10.9 17		
5 11	17 47.68	-24 37.4	1.615	2.498	14.0	20.9	5 11	17 45.38	-14 50.3	1.608	2.491	14.1	21.0
5 21	17 40.57	-24 34.5	1.549	2.501	10.0	20.7	5 21	17 39.01	-14 44.2	1.532	2.481	10.3	20.8
5 31	17 31.02	-24 27.4	1.506	2.502	5.5	20.4	5 31	17 30.26	-14 44.0	1.479	2.471	6.3	20.5
6 10	17 20.07	-24 15.6	1.489	2.504	0.8	20.1	6 10	17 20.03	-14 50.7	1.452	2.461	3.4	20.3
6 20	17 8.96	-23 59.3	1.498	2.504	4.3	20.4	6 20	17 9.45	-15 4.8	1.451	2.450	5.6	20.4
6 30	16 59.04	-23 40.7	1.534	2.504	8.9	20.6	6 30	16 59.79	-15 26.2	1.475	2.439	9.8	20.6
7 10	16 51.34	-23 22.8	1.594	2.504	13.0	20.9	7 10	16 52.12	-15 54.7	1.523	2.428	13.9	20.8
7 20	16 46.50	-23 8.3	1.673	2.503	16.5	21.1	7 20	16 47.14	-16 29.6	1.591	2.416	17.4	21.0
<b>483105</b>	2015 MY <sub>108</sub>		6 11.3 265°45	3°6/10.9 18			<b>428289</b>	2007 EJ <sub>126</sub>		6 11.3 144°97	0°8/11.4 17		
5 11	17 40.78	-10 33.2	2.527	3.391	10.2	21.5	5 11	17 46.04	-25 12.4	1.951	2.828	12.2	22.0
5 21	17 35.07	-10 34.6	2.437	3.373	7.7	21.3	5 21	17 39.06	-25 18.3	1.888	2.836	8.7	21.8
5 31	17 27.86	-10 43.0	2.373	3.354	5.2	21.1	5 31	17 30.08	-25 20.5	1.849	2.845	4.8	21.6
6 10	17 19.72	-10 59.4	2.335	3.335	3.7	21.0	6 10	17 19.99	-25 18.0	1.838	2.852	1.0	21.3
6 20	17 11.31	-11 23.7	2.326	3.315	4.8	21.0	6 20	17 9.84	-25 10.9	1.854	2.859	3.7	21.6
6 30	17 3.39	-11 55.7	2.345	3.296	7.4	21.2	6 30	17 0.68	-25 0.5	1.898	2.866	7.6	21.8
7 10	16 56.65	-12 34.6	2.390	3.276	10.2	21.3	7 10	16 53.39	-24 49.2	1.966	2.872	11.1	22.1
7 20	16 51.59	-13 19.1	2.457	3.256	12.8	21.5	7 20	16 48.50	-24 39.1	2.056	2.878	14.1	22.3
<b>475836</b>	2007 BB <sub>18</sub>		6 11.3 219°38	7°2/10.1 18			<b>495321</b>	2014 JJ <sub>53</sub>		6 11.3 314°40	2°6/11.3 18		
5 11	17 39.80	+ 3 19.0	2.845	3.658	10.7	21.6	5 11	17 42.82	-28 11.8	2.065	2.943	11.6	21.2
5 21	17 34.14	+ 3 41.8	2.772	3.650	9.1	21.4	5 21	17 37.02	-28 59.4	1.984	2.931	8.5	21.0
5 31	17 27.25	+ 3 51.2	2.722	3.641	7.8	21.3	5 31	17 29.13	-29 43.8	1.928	2.919	5.1	20.8
6 10	17 19.64	+ 3 45.1	2.697	3.632	7.2	21.3	6 10	17 19.91	-30 22.1	1.898	2.907	2.6	20.6
6 20	17 11.91	+ 3 22.7	2.699	3.623	7.8	21.3	6 20	17 10.30	-30 52.1	1.895	2.896	4.3	20.7
6 30	17 4.68	+ 2 44.4	2.727	3.613	9.1	21.4	6 30	17 1.40	-31 13.3	1.919	2.885	7.8	20.9
7 10	16 58.50	+ 1 52.2	2.779	3.603	10.8	21.5	7 10	16 54.17	-31 27.2	1.968	2.874	11.2	21.1
7 20	16 53.77	+ 0 48.6	2.852	3.592	12.5	21.6	7 20	16 49.28	-31 36.0	2.039	2.863	14.1	21.2
<b>41341</b>	1999 YZ <sub>21</sub>		6 11.3 281°97	2°8/10.4 18			<b>479943</b>	2014 HL <sub>155</sub>		6 11.3 72°77	4°9/ 9.9 17		
5 11	17 39.77	-16 28.3	2.308	3.187	10.5	18.3	5 11	17 40.14	-10 20.6	2.143	3.015	11.5	21.2
5 21	17 34.39	-15 44.2	2.229	3.177	7.7	18.1	5 21	17 34.55	- 9 28.7	2.091	3.028	8.7	21.0
5 31	17 27.48	-15 1.3	2.175	3.166	4.7	17.9	5 31	17 27.50	- 8 43.7	2.064	3.042	6.1	20.9
6 10	17 19.68	-14 21.5	2.148	3.155	2.8	17.7	6 10	17 19.70	- 8 8.3	2.063	3.055	4.9	20.8
6 20	17 11.75	-13 46.9	2.149	3.145	4.5	17.8	6 20	17 11.92	- 7 44.4	2.089	3.068	6.1	20.9
6 30	17 4.48	-13 19.4	2.177	3.134	7.6	18.0	6 30	17 4.95	- 7 32.9	2.141	3.081	8.6	21.1
7 10	16 58.54	-13 0.3	2.231	3.123	10.6	18.2	7 10	16 59.42	- 7 33.7	2.217	3.095	11.2	21.3
7 20	16 54.43	-12 49.9	2.306	3.113	13.2	18.4	7 20	16 55.74	- 7 45.5	2.314	3.108	13.6	21.5
<b>304001</b>	2006 BJ <sub>241</sub>		6 11.3 110°07	1°4/11.4 17			<b>106722</b>	2000 WA <sub>179</sub>		6 11.3 143°86	0°2/11.2 18		
5 11	17 48.68	-26 9.6	1.423	2.311	15.3	21.4	5 11	17 41.95	-21 36.9	2.740	3.611	9.3	19.5
5 21	17 41.43	-26 20.3	1.370	2.323	11.0	21.2	5 21	17 35.72	-21 52.4	2.674	3.620	6.6	19.3
5 31	17 31.52	-26 25.5	1.339	2.335	6.1	21.0	5 31	17 28.13	-22 7.5	2.634	3.629	3.6	19.1
6 10	17 20.14	-26 23.4	1.332	2.346	1.6	20.7	6 10	17 19.78	-22 21.8	2.623	3.638	0.4	18.9
6 20	17 8.74	-26 14.0	1.352	2.358	4.7	20.9	6 20	17 11.34	-22 34.7	2.641	3.646	2.8	19.1
6 30	16 58.79	-25 59.5	1.397	2.369	9.4	21.2	6 30	17 3.54	-22 46.7	2.688	3.653	5.8	19.3
7 10	16 51.39	-25 43.5	1.464	2.379	13.6	21.5	7 10	16 56.98	-22 58.1	2.761	3.660	8.6	19.5
7 20	16 47.12	-25 29.2	1.551	2.389	17.2	21.8	7 20	16 52.08	-23 9.9	2.858	3.667	10.9	19.7
<b>347719</b>	2001 XO <sub>114</sub>		6 11.3 91°76	2°1/11.7 18			<b>17947</b>	1999 JV <sub>10</sub>		6 11.3 43°56	3°5/10.7 18		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	
<b>301863</b>	1995 <i>SP</i> <sub>69</sub>		6 11.3 162°87	2°8/11.8	16		<b>523713</b>	2014 <i>JX</i> <sub>80</sub>		6 11.3	6°58	0°7/ 9.0	18	
5 11	17 43.52	-31 46.0	2.403	3.268	10.7	21.9	5 11	17 21.38	+ 3 30.0	35.334	36.131	1.0	21.9	
5 21	17 37.12	-31 59.5	2.333	3.271	7.9	21.8	5 21	17 20.61	+ 3 34.7	35.273	36.134	0.9	21.9	
5 31	17 29.00	-32 5.5	2.287	3.273	5.0	21.6	5 31	17 19.77	+ 3 38.2	35.238	36.136	0.8	21.9	
6 10	17 19.90	-32 2.8	2.269	3.276	2.8	21.5	6 10	17 18.89	+ 3 40.6	35.228	36.138	0.7	21.9	
6 20	17 10.69	-31 51.0	2.279	3.278	4.0	21.5	6 20	17 18.01	+ 3 41.7	35.245	36.140	0.8	21.9	
6 30	17 2.30	-31 31.4	2.317	3.279	6.8	21.7	6 30	17 17.15	+ 3 41.5	35.287	36.143	0.9	21.9	
7 10	16 55.48	-31 6.9	2.380	3.281	9.7	21.9	7 10	17 16.36	+ 3 40.1	35.353	36.145	1.0	21.9	
7 20	16 50.73	-30 40.4	2.466	3.282	12.2	22.1	7 20	17 15.65	+ 3 37.5	35.442	36.147	1.2	21.9	
<b>19375</b>	1998 <i>AB</i> <sub>5</sub>		6 11.3 346°84	5°1/11.1	18		<b>149059</b>	2002 <i>CB</i> <sub>35</sub>		6 11.3 142°09	2°1/11.1	18		
5 11	17 41.76	-12 23.0	1.126	2.029	17.2	17.4	5 11	17 41.13	-15 41.6	2.415	3.289	10.3	20.5	
5 21	17 37.02	-12 20.5	1.065	2.022	12.9	17.1	5 21	17 35.30	-15 47.1	2.348	3.294	7.5	20.3	
5 31	17 29.40	-12 30.6	1.024	2.016	8.2	16.8	5 31	17 27.98	-15 56.3	2.306	3.298	4.4	20.1	
6 10	17 19.98	-12 54.7	1.004	2.012	5.1	16.7	6 10	17 19.84	-16 9.5	2.292	3.302	2.2	19.9	
6 20	17 10.19	-13 32.8	1.008	2.008	7.3	16.8	6 20	17 11.59	-16 26.3	2.306	3.306	3.8	20.1	
6 30	17 1.64	-14 23.2	1.033	2.005	11.9	17.0	6 30	17 4.00	-16 46.9	2.348	3.309	6.8	20.3	
7 10	16 55.62	-15 23.1	1.079	2.003	16.6	17.3	7 10	16 57.73	-17 10.9	2.415	3.313	9.7	20.5	
7 20	16 52.90	-16 29.2	1.142	2.002	20.6	17.5	7 20	16 53.23	-17 38.0	2.506	3.316	12.2	20.6	
<b>417556</b>	2006 <i>UP</i> <sub>90</sub>		6 11.3 298°64	1°3/11.5	17		<b>131214</b>	2001 <i>DV</i> <sub>62</sub>		6 11.3 134°86	1°5/11.0	17		
5 11	17 38.95	-27 36.7	2.926	3.797	8.8	21.5	5 11	17 42.72	-19 29.5	1.851	2.736	12.4	20.3	
5 21	17 33.77	-27 48.3	2.830	3.775	6.4	21.3	5 21	17 36.80	-19 17.7	1.785	2.737	8.9	20.0	
5 31	17 27.17	-27 56.5	2.760	3.752	3.7	21.1	5 31	17 28.93	-19 6.6	1.742	2.738	5.0	19.8	
6 10	17 19.71	-28 0.4	2.717	3.729	1.4	20.9	6 10	17 19.95	-18 57.0	1.725	2.739	1.6	19.6	
6 20	17 12.02	-27 59.6	2.703	3.707	2.9	21.0	6 20	17 10.84	-18 49.4	1.736	2.740	4.2	19.8	
6 30	17 4.79	-27 54.8	2.718	3.684	5.7	21.2	6 30	17 2.64	-18 45.1	1.773	2.740	8.1	20.0	
7 10	16 58.66	-27 47.2	2.758	3.661	8.4	21.3	7 10	16 56.20	-18 45.1	1.833	2.741	11.7	20.2	
7 20	16 54.13	-27 38.5	2.822	3.639	10.8	21.4	7 20	16 52.06	-18 50.2	1.915	2.742	14.8	20.4	
<b>361161</b>	2006 <i>KS</i> <sub>3</sub>		6 11.3 42°80	4°9/10.4	17		<b>432499</b>	2010 <i>EH</i> <sub>138</sub>		6 11.3 70°93	5°1/11.9	18		
5 11	17 43.91	-15 6.0	1.251	2.149	16.2	20.2	5 11	17 47.41	-35 31.4	1.851	2.715	13.4	20.8	
5 21	17 38.13	-14 10.6	1.198	2.154	11.9	20.0	5 21	17 40.29	-36 16.9	1.802	2.734	10.2	20.6	
5 31	17 29.77	-13 20.2	1.167	2.159	7.5	19.7	5 31	17 30.86	-36 50.5	1.777	2.753	7.1	20.5	
6 10	17 20.00	-12 38.8	1.159	2.165	4.9	19.6	6 10	17 20.16	-37 8.8	1.777	2.772	5.2	20.4	
6 20	17 10.20	-12 9.8	1.174	2.171	7.2	19.8	6 20	17 9.45	-37 10.5	1.803	2.791	6.1	20.5	
6 30	17 1.74	-11 55.5	1.213	2.177	11.5	20.0	6 30	16 59.98	-36 57.6	1.856	2.810	8.8	20.7	
7 10	16 55.71	-11 56.3	1.273	2.183	15.6	20.3	7 10	16 52.73	-36 34.2	1.932	2.829	11.7	20.9	
7 20	16 52.66	-12 10.7	1.351	2.190	19.2	20.5	7 20	16 48.24	-36 5.2	2.029	2.848	14.4	21.1	
<b>383913</b>	2008 <i>SP</i> <sub>121</sub>		6 11.3 210°03	1°2/11.0	17		<b>459866</b>	2013 <i>YE</i> <sub>54</sub>		6 11.3 166°90	0°8/11.5	17		
5 11	17 43.22	-20 20.6	2.200	3.077	11.0	22.1	5 11	17 44.51	-26 7.8	2.030	2.908	11.8	21.8	
5 21	17 36.94	-20 4.5	2.123	3.072	7.9	21.9	5 21	17 37.97	-25 59.2	1.962	2.910	8.5	21.6	
5 31	17 28.93	-19 47.8	2.071	3.067	4.4	21.7	5 31	17 29.52	-25 45.7	1.918	2.913	4.7	21.3	
6 10	17 19.91	-19 31.2	2.047	3.061	1.3	21.5	6 10	17 20.02	-25 26.9	1.900	2.915	1.0	21.1	
6 20	17 10.75	-19 15.5	2.051	3.054	3.7	21.6	6 20	17 10.43	-25 3.6	1.911	2.916	3.6	21.3	
6 30	17 2.32	-19 2.1	2.082	3.047	7.3	21.8	6 30	17 1.76	-24 37.9	1.949	2.918	7.4	21.5	
7 10	16 55.42	-18 52.3	2.139	3.040	10.6	22.0	7 10	16 54.87	-24 12.3	2.012	2.919	10.9	21.7	
7 20	16 50.56	-18 47.4	2.218	3.032	13.5	22.2	7 20	16 50.25	-23 49.3	2.097	2.920	13.8	21.9	
<b>230345</b>	2002 <i>CO</i> <sub>252</sub>		6 11.3 218°20	4°7/12.4	18		<b>359516</b>	2010 <i>RM</i> <sub>54</sub>		6 11.3 239°91	3°5/10.4	18		
5 11	17 48.13	-37 15.9	2.156	3.007	12.3	21.4	5 11	17 39.70	-12 29.2	2.573	3.442	9.9	21.8	
5 21	17 40.74	-37 28.1	2.076	3.000	9.5	21.2	5 21	17 34.25	-12 2.4	2.493	3.432	7.4	21.6	
5 31	17 31.11	-37 27.7	2.019	2.991	6.7	21.0	5 31	17 27.42	-11 39.9	2.438	3.422	4.9	21.4	
6 10	17 20.17	-37 12.0	1.988	2.983	4.8	20.9	6 10	17 19.78	-11 23.3	2.411	3.411	3.5	21.3	
6 20	17 9.03	-36 40.4	1.985	2.973	5.6	20.9	6 20	17 11.99	-11 13.7	2.412	3.400	4.7	21.4	
6 30	16 58.91	-35 55.3	2.009	2.963	8.2	21.0	6 30	17 4.76	-11 12.0	2.440	3.389	7.3	21.5	
7 10	16 50.77	-35 1.5	2.058	2.953	11.2	21.2	7 10	16 58.71	-11 18.3	2.494	3.378	9.9	21.7	
7 20	16 45.22	-34 4.1	2.129	2.942	14.0	21.4	7 20	16 54.28	-11 32.1	2.569	3.366	12.3	21.8	
<b>122274</b>	2000 <i>PH</i> <sub>3</sub>		6 11.3	2°16	6°2/10.3	17		<b>257912</b>	2000 <i>VF</i> <sub>9</sub>		6 11.3 125°04	3°4/10.3	16	
5 11	17 39.53	-14 4.7	0.974	1.889	18.1	18.5	5 11	17 40.18	-14 22.1	2.279	3.155	10.8	20.4	
5 21	17 35.55	-13 5.1	0.924	1.887	13.5	18.2	5 21	17 34.64	-13 39.5	2.213	3.157	7.9	20.2	
5 31	17 28.58	-12 13.2	0.892	1.886	8.8	17.9	5 31	17 27.62	-13 0.1	2.172	3.160	5.0	20.0	
6 10	17 19.89	-11 34.5	0.881	1.886	6.2	17.8	6 10	17 19.80	-12 26.2	2.159	3.162	3.4	19.9	
6 20	17 11.03	-11 13.0	0.890	1.888	8.6	17.9	6 20	17 11.94	-11 59.3	2.173	3.164	4.9	20.0	
6 30	17 3.64	-11 11.2	0.921	1.891	13.2	18.2	6 30	17 4.79	-11 41.1	2.214	3.166	7.7	20.2	
7 10	16 58.98	-11 28.0	0.969	1.895	17.8	18.4	7 10	16 59.01	-11 32.2	2.280	3.169	10.5	20.4	
7 20	16 57.67	-12 0.4	1.034	1.901	21.8	18.7	7 20	16 55.04	-11 32.2	2.367	3.171	13.0	20.5	
<b>75501</b>	1999 <i>XB</i> <sub>185</sub>		6 11.3 124°45	3°6/11.7	18		<b>242152</b>	2003 <i>DR</i> <sub>1</sub>		6 11.3 166°14	0°9/11.2	18		
5 11	17 49.52	-31 44.7	1.813	2.681	13.4	19.7	5 11	17 44.79	-20 1.8	1.744	2.629	13.1	20.6	
5 21	17 41.77	-32 17.3	1.757	2.696	9.9	19.5	5 21	17 38.42	-20 13.0	1.678	2.630	9.4	20.3	
5 31	17 31.65	-32 40.8	1.725	2.711	6.3	19.3	5 31	17 29.89	-20 25.7	1.635	2.632	5.2	20.1	
6 10	17 20.23	-32 52.1	1.719	2.724	3.7	19.2	6 10	17 20.08	-20 39.2	1.618	2.633	1.1	19.8	
6 20	17 8.76	-32 50.2	1.740	2.738	5.1	19.3	6 20	17 10.08	-20 52.8	1.628	2.634	4.1	20.0	
6 30	16 58.54	-32 36.9	1.788	2.750	8.5	19.5	6 30	17 1.05	-21 7.0	1.665	2.634	8.4	20.3	
7 10	16 50.55	-32 16.1	1.861	2.762	11.9	19.8	7 10	16 53.94	-21 22.5	1.725	2.635	12.2	20.5	
7 20	16 45.36	-31 52.2	1.954	2.774	14.8	20.0	7 20	16 49.34	-21 40.0	1.807	2.635	15.5	20.7	
<b>373668</b>	2002 <i>QS</i> <sub>89</sub>		6 11.3 318°22	1°0/11.1	17									

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>384095</b>	2008 <i>WR</i> <sub>17</sub>		6 11.3 258°46	0°1/11.3 17			<b>387288</b>	2012 <i>US</i> <sub>160</sub>		6 11.3 197°01	2°1/11.6 17		
5 11	17 43.61	-22 25.2	1.888	2.771	12.3	21.2	5 11	17 44.22	-28 55.0	2.069	2.943	11.8	21.2
5 21	17 37.57	-22 32.1	1.810	2.763	8.8	21.0	5 21	17 37.89	-29 9.1	1.997	2.942	8.6	21.0
5 31	17 29.44	-22 38.0	1.757	2.754	4.8	20.7	5 31	17 29.57	-29 17.3	1.950	2.941	5.1	20.8
6 10	17 20.04	-22 42.4	1.730	2.745	0.6	20.4	6 10	17 20.10	-29 17.9	1.929	2.940	2.2	20.6
6 20	17 10.37	-22 44.9	1.730	2.735	3.8	20.6	6 20	17 10.46	-29 10.6	1.936	2.938	4.0	20.7
6 30	17 1.52	-22 46.4	1.756	2.726	8.0	20.9	6 30	17 1.69	-28 56.7	1.969	2.937	7.5	21.0
7 10	16 54.44	-22 48.3	1.807	2.717	11.8	21.1	7 10	16 54.69	-28 38.8	2.028	2.935	10.8	21.2
7 20	16 49.75	-22 52.1	1.879	2.707	15.0	21.3	7 20	16 50.00	-28 19.9	2.109	2.933	13.7	21.3
<b>472942</b>	2015 <i>GU</i> <sub>26</sub>		6 11.3 13°31	4°1/11.4 18			<b>434360</b>	2004 <i>SK</i> <sub>59</sub>		6 11.3 273°73	15°3/ 2.1 18		
5 11	17 42.99	-11 20.0	1.578	2.461	14.3	20.1	5 11	17 41.69	+15 38.4	1.936	2.701	16.6	20.4
5 21	17 37.24	-11 42.7	1.516	2.462	10.6	19.8	5 21	17 36.12	+17 54.8	1.881	2.685	15.7	20.3
5 31	17 29.28	-12 16.9	1.476	2.465	6.8	19.6	5 31	17 28.65	+19 47.2	1.845	2.669	15.3	20.2
6 10	17 20.03	-13 2.2	1.461	2.467	4.1	19.5	6 10	17 20.00	+21 7.8	1.829	2.653	15.5	20.2
6 20	17 10.56	-13 57.0	1.473	2.471	5.8	19.6	6 20	17 11.06	+21 52.1	1.833	2.637	16.2	20.2
6 30	17 2.05	-14 59.2	1.509	2.474	9.5	19.8	6 30	17 2.83	+21 58.7	1.855	2.621	17.4	20.2
7 10	16 55.49	-16 6.1	1.570	2.478	13.3	20.0	7 10	16 56.16	+21 30.7	1.892	2.604	18.8	20.3
7 20	16 51.49	-17 15.3	1.650	2.483	16.6	20.2	7 20	16 51.66	+20 33.5	1.943	2.588	20.2	20.4
<b>164483</b>	2006 <i>FV</i> <sub>26</sub>		6 11.3 35°59	1°5/11.4 17			<b>424386</b>	2007 <i>WU</i> <sub>61</sub>		6 11.3 274°47	2°8/11.8 17		
5 11	17 46.51	-25 43.6	1.291	2.186	16.0	19.8	5 11	17 47.14	-30 9.3	1.471	2.356	15.0	21.1
5 21	17 40.30	-26 2.7	1.231	2.188	11.5	19.6	5 21	17 40.79	-30 9.2	1.390	2.340	11.1	20.9
5 31	17 31.14	-26 17.4	1.193	2.190	6.5	19.3	5 31	17 31.50	-29 59.0	1.331	2.324	6.7	20.6
6 10	17 20.25	-26 25.3	1.179	2.193	1.7	19.0	6 10	17 20.35	-29 36.2	1.296	2.307	3.0	20.3
6 20	17 9.13	-26 25.7	1.189	2.195	5.0	19.2	6 20	17 8.76	-29 0.9	1.287	2.291	5.2	20.4
6 30	16 59.40	-26 20.1	1.223	2.198	10.1	19.5	6 30	16 58.32	-28 16.2	1.302	2.274	9.9	20.6
7 10	16 52.33	-26 11.8	1.278	2.200	14.7	19.8	7 10	16 50.38	-27 27.8	1.340	2.257	14.5	20.8
7 20	16 48.61	-26 4.2	1.353	2.203	18.5	20.0	7 20	16 45.71	-26 41.3	1.397	2.241	18.4	21.0
<b>203027</b>	2000 <i>AC</i> <sub>241</sub>		6 11.3 144°67	5°9/10.3 17			<b>414151</b>	2007 <i>WG</i> <sub>11</sub>		6 11.3 174°43	2°4/10.9 17		
5 11	17 41.89	-4 51.7	2.375	3.225	11.3	20.3	5 11	17 46.41	-16 45.5	1.905	2.780	12.6	21.9
5 21	17 35.74	-4 21.8	2.317	3.235	9.0	20.2	5 21	17 39.38	-16 37.2	1.837	2.784	9.1	21.7
5 31	17 28.19	-4 2.1	2.284	3.244	6.8	20.1	5 31	17 30.36	-16 31.9	1.794	2.786	5.3	21.4
6 10	17 19.89	-3 54.9	2.277	3.254	5.9	20.0	6 10	17 20.20	-16 30.3	1.777	2.788	2.4	21.2
6 20	17 11.56	-4 0.9	2.298	3.262	6.7	20.1	6 20	17 9.91	-16 32.6	1.789	2.789	4.6	21.4
6 30	17 3.94	-4 20.1	2.345	3.270	8.7	20.2	6 30	17 0.53	-16 39.6	1.828	2.790	8.3	21.6
7 10	16 57.65	-4 51.0	2.417	3.278	11.0	20.4	7 10	16 52.94	-16 51.7	1.891	2.789	11.9	21.8
7 20	16 53.10	-5 31.6	2.510	3.285	13.1	20.5	7 20	16 47.69	-17 9.1	1.976	2.788	14.9	22.0
<b>9189</b>	Hölderlin		6 11.3 211°63	1°4/11.1 18			<b>513779</b>	2013 <i>AU</i> <sub>14</sub>		6 11.3 161°64	5°2/13.0 18		
5 11	17 45.17	-19 45.1	1.694	2.579	13.4	18.2	5 11	17 47.09	-42 19.1	2.793	3.617	10.5	21.9
5 21	17 38.76	-19 38.4	1.623	2.576	9.6	17.9	5 21	17 39.59	-42 28.7	2.722	3.622	8.5	21.8
5 31	17 30.11	-19 32.5	1.576	2.572	5.4	17.7	5 31	17 30.35	-42 25.1	2.677	3.627	6.5	21.6
6 10	17 20.13	-19 27.5	1.554	2.568	1.5	17.4	6 10	17 20.19	-42 6.3	2.658	3.632	5.3	21.6
6 20	17 9.93	-19 24.1	1.560	2.564	4.4	17.6	6 20	17 10.04	-41 32.2	2.666	3.636	5.6	21.6
6 30	17 0.70	-19 23.2	1.591	2.560	8.8	17.8	6 30	17 0.83	-40 45.0	2.703	3.640	7.2	21.7
7 10	16 53.44	-19 26.2	1.646	2.555	12.8	18.1	7 10	16 53.30	-39 48.6	2.765	3.643	9.3	21.8
7 20	16 48.78	-19 34.0	1.722	2.550	16.2	18.3	7 20	16 47.93	-38 47.5	2.851	3.646	11.3	22.0
<b>162113</b>	1998 <i>RE</i> <sub>80</sub>		6 11.3 260°28	2°5/11.5 18			<b>244445</b>	2002 <i>RA</i> <sub>69</sub>		6 11.3 293°72	2°3/11.7 18		
5 11	17 45.32	-29 15.8	2.203	3.073	11.3	20.0	5 11	17 43.75	-28 57.8	1.849	2.729	12.7	20.9
5 21	17 38.79	-29 43.8	2.111	3.053	8.4	19.7	5 21	17 37.94	-29 7.0	1.760	2.708	9.3	20.6
5 31	17 30.15	-30 6.9	2.043	3.032	5.1	19.5	5 31	17 29.80	-29 9.5	1.694	2.686	5.5	20.3
6 10	17 20.15	-30 22.6	2.002	3.011	2.5	19.3	6 10	17 20.16	-29 3.7	1.653	2.665	2.4	20.1
6 20	17 9.73	-30 29.6	1.989	2.990	4.2	19.3	6 20	17 10.11	-28 48.9	1.639	2.643	4.4	20.2
6 30	16 59.97	-30 28.3	2.004	2.968	7.6	19.5	6 30	17 0.86	-28 26.7	1.652	2.622	8.4	20.4
7 10	16 51.83	-30 20.8	2.044	2.945	11.0	19.7	7 10	16 53.51	-28 0.3	1.688	2.600	12.3	20.5
7 20	16 46.00	-30 10.1	2.106	2.923	14.0	19.8	7 20	16 48.77	-27 33.4	1.745	2.579	15.7	20.7
<b>221616</b>	2006 <i>XX</i> <sub>38</sub>		6 11.3 302°61	1°5/11.2 18 R			<b>179459</b>	2002 <i>AG</i> <sub>189</sub>		6 11.3 77°62	6°3/10.0 18		
5 11	17 43.86	-19 11.0	1.412	2.307	14.9	20.1	5 11	17 40.16	-5 1.5	2.238	3.094	11.7	20.3
5 21	17 38.56	-19 18.2	1.320	2.278	10.9	19.8	5 21	17 34.54	-4 14.7	2.193	3.113	9.3	20.2
5 31	17 30.39	-19 28.7	1.250	2.248	6.2	19.4	5 31	17 27.54	-3 38.7	2.172	3.132	7.2	20.1
6 10	17 20.21	-19 42.3	1.204	2.218	1.7	19.0	6 10	17 19.87	-3 16.0	2.176	3.151	6.3	20.1
6 20	17 9.25	-19 58.7	1.183	2.189	5.2	19.2	6 20	17 12.24	-3 8.0	2.208	3.169	7.1	20.1
6 30	16 59.05	-20 17.8	1.186	2.159	10.5	19.4	6 30	17 5.39	-3 14.7	2.265	3.188	9.1	20.3
7 10	16 51.02	-20 40.6	1.211	2.130	15.5	19.6	7 10	16 59.91	-3 34.9	2.345	3.206	11.3	20.5
7 20	16 46.11	-21 7.5	1.254	2.102	19.9	19.8	7 20	16 56.18	-4 6.3	2.446	3.224	13.4	20.7
<b>314081</b>	2005 <i>CU</i> <sub>32</sub>		6 11.3 35°44	1°8/11.5 17			<b>162095</b>	1998 <i>QC</i> <sub>29</sub>		6 11.3 285°42	1°4/11.1 17		
5 11	17 44.87	-26 8.2	1.109	2.014	17.2	20.4	5 11	17 42.57	-19 18.9	1.842	2.727	12.4	20.1
5 21	17 39.22	-26 25.6	1.065	2.027	12.4	20.1	5 21	17 36.91	-19 18.1	1.761	2.713	9.0	19.9
5 31	17 30.53	-26 37.3	1.042	2.040	6.9	19.9	5 31	17 29.15	-19 18.8	1.703	2.699	5.0	19.6
6 10	17 20.19	-26 41.3	1.040	2.054	2.0	19.6	6 10	17 20.09	-19 21.1	1.671	2.685	1.5	19.4
6 20	17 9.87	-26 37.1	1.062	2.069	5.2	19.8	6 20	17 10.70	-19 25.3	1.667	2.671	4.2	19.5
6 30	17 1.23	-26 27.2	1.107	2.085	10.5	20.2	6 30	17 2.09	-19 32.0	1.688	2.657	8.3	19.7
7 10	16 55.49	-26 15.2	1.172	2.101	15.1	20.5	7 10	16 55.20	-19 41.9	1.734	2.643	12.2	19.9
7 20	16 53.19	-26 4.7	1.255	2.118	18.9	20.8	7 20	16 50.68	-19 55.8	1.800	2.629	15.5	20.1
<b>497550</b>	2006 <i>DJ</i> <sub>33</sub>		6 11.3 109°25	3°0/10.8 17			<b>168407</b>	1998 <i>FP</i> <sub></sub>					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	
<b>216705</b>	2004 <i>RU</i> <sub>252</sub>	6 11.3 27°73' 12.0"/ 6.4 18						<b>198414</b>	2004 <i>VJ</i> <sub>65</sub>	6 11.3 302°23' 2.4"/ 10.9 17				
5 11	17 46.67	- 9 17.5	0.964	1.864	19.7	19.5	5 11	17 42.44	-17 43.2	1.659	2.548	13.4	20.1	
5 21	17 40.48	- 5 59.6	0.920	1.866	15.7	19.2	5 21	17 36.92	-17 29.7	1.585	2.539	9.7	19.9	
5 31	17 31.22	- 2 49.9	0.896	1.869	12.7	19.1	5 31	17 29.20	-17 18.8	1.534	2.529	5.6	19.6	
6 10	17 20.32	- 0 5.1	0.894	1.871	12.2	19.1	6 10	17 20.14	-17 11.4	1.508	2.520	2.4	19.4	
6 20	17 9.46	+ 2 1.2	0.914	1.874	14.6	19.2	6 20	17 10.82	-17 8.5	1.509	2.511	4.9	19.5	
6 30	17 0.31	+ 3 22.1	0.954	1.878	18.3	19.4	6 30	17 2.39	-17 11.1	1.535	2.503	9.1	19.7	
7 10	16 54.09	+ 3 59.0	1.011	1.881	22.0	19.7	7 10	16 55.84	-17 19.9	1.584	2.494	13.1	19.9	
7 20	16 51.35	+ 3 58.6	1.081	1.885	25.1	19.9	7 20	16 51.81	-17 35.1	1.652	2.486	16.5	20.2	
<b>90251</b>	2003 <i>BA</i> <sub>64</sub>	6 11.3 237°92' 19.2"/ 8.4 18						<b>255604</b>	2006 <i>PY</i> <sub>10</sub>	6 11.3 38°89' 5.6"/ 12.5 17				
5 11	17 46.22	+16 11.3	1.304	2.092	22.0	19.4	5 11	17 47.89	-35 55.6	1.311	2.192	16.8	19.6	
5 21	17 39.95	+17 48.2	1.253	2.085	20.6	19.3	5 21	17 41.38	-36 4.4	1.256	2.198	12.8	19.4	
5 31	17 30.96	+18 48.7	1.218	2.076	19.5	19.2	5 31	17 31.76	-35 56.1	1.221	2.204	8.6	19.1	
6 10	17 20.31	+19 3.1	1.199	2.068	19.2	19.1	6 10	17 20.44	-35 27.5	1.209	2.211	5.7	19.0	
6 20	17 9.35	+18 27.0	1.198	2.059	19.8	19.2	6 20	17 9.10	-34 39.2	1.220	2.218	6.8	19.1	
6 30	16 59.55	+17 1.8	1.213	2.049	21.2	19.2	6 30	16 59.46	-33 36.3	1.256	2.225	10.6	19.3	
7 10	16 52.11	+14 55.5	1.245	2.039	23.0	19.3	7 10	16 52.77	-32 26.8	1.313	2.232	14.6	19.6	
7 20	16 47.74	+12 19.1	1.290	2.029	24.9	19.4	7 20	16 49.59	-31 18.0	1.390	2.240	18.1	19.8	
<b>505628</b>	2014 <i>HL</i> <sub>143</sub>	6 11.3 127°18' 7.5"/ 9.1 17						<b>250731</b>	2005 <i>SF</i> <sub>65</sub>	6 11.3 231°43' 3.1"/ 10.5 18				
5 11	17 39.82	+ 0 34.0	2.555	3.385	11.2	21.9	5 11	17 40.24	-14 38.6	2.434	3.308	10.2	20.4	
5 21	17 34.21	+ 1 34.5	2.503	3.396	9.4	21.8	5 21	17 34.72	-14 4.0	2.358	3.302	7.5	20.2	
5 31	17 27.36	+ 2 22.5	2.477	3.407	8.0	21.7	5 31	17 27.76	-13 32.3	2.308	3.295	4.8	20.0	
6 10	17 19.87	+ 2 54.9	2.475	3.417	7.5	21.7	6 10	17 19.97	-13 5.1	2.285	3.289	3.1	19.9	
6 20	17 12.37	+ 3 10.2	2.500	3.427	8.1	21.7	6 20	17 12.06	-12 43.9	2.290	3.282	4.5	20.0	
6 30	17 5.51	+ 3 7.9	2.550	3.437	9.6	21.8	6 30	17 4.78	-12 30.1	2.322	3.276	7.3	20.1	
7 10	16 59.85	+ 2 49.7	2.623	3.446	11.4	22.0	7 10	16 58.77	-12 24.3	2.380	3.269	10.1	20.3	
7 20	16 55.76	+ 2 17.8	2.716	3.456	13.1	22.1	7 20	16 54.48	-12 26.3	2.459	3.262	12.6	20.5	
<b>202940</b>	1999 <i>CD</i> <sub>5</sub>	6 11.3 87°47' 0.1"/ 11.3 18						<b>57307</b>	2001 <i>QS</i> <sub>200</sub>	6 11.3 216°92' 2.3"/ 11.5 18				
5 11	17 49.53	-22 4.8	1.386	2.274	15.5	20.1	5 11	17 43.91	-29 2.2	2.346	3.216	10.7	19.1	
5 21	17 41.96	-22 22.1	1.343	2.297	11.0	19.9	5 21	17 37.59	-29 34.7	2.270	3.212	7.9	18.9	
5 31	17 31.84	-22 38.5	1.323	2.320	6.0	19.7	5 31	17 29.43	-30 2.5	2.218	3.208	4.7	18.7	
6 10	17 20.40	-22 52.3	1.327	2.342	0.7	19.4	6 10	17 20.17	-30 23.6	2.194	3.204	2.4	18.5	
6 20	17 9.08	-23 2.9	1.358	2.364	4.5	19.7	6 20	17 10.68	-30 36.8	2.199	3.199	3.8	18.6	
6 30	16 59.27	-23 11.2	1.414	2.386	9.3	20.1	6 30	17 1.89	-30 42.3	2.231	3.195	7.0	18.8	
7 10	16 52.02	-23 19.0	1.493	2.407	13.5	20.4	7 10	16 54.63	-30 42.1	2.289	3.190	10.0	19.0	
7 20	16 47.83	-23 28.2	1.592	2.428	16.9	20.6	7 20	16 49.48	-30 38.4	2.369	3.185	12.7	19.1	
<b>94352</b>	2001 <i>QD</i> <sub>169</sub>	6 11.3 160°48' 4.2"/ 10.9 18						<b>181831</b>	1998 <i>SE</i> <sub>84</sub>	6 11.3 332°79' 3.2"/ 10.8 18				
5 11	17 46.59	-13 9.9	1.537	2.419	14.7	19.8	5 11	17 38.62	-15 57.6	1.719	2.612	12.8	19.3	
5 21	17 39.83	-12 57.0	1.476	2.423	10.9	19.5	5 21	17 34.18	-15 35.6	1.639	2.593	9.4	19.1	
5 31	17 30.73	-12 51.7	1.438	2.427	6.9	19.3	5 31	17 27.71	-15 17.4	1.582	2.575	5.7	18.8	
6 10	17 20.29	-12 55.4	1.424	2.430	4.2	19.2	6 10	17 19.98	-15 4.5	1.549	2.558	3.2	18.6	
6 20	17 9.70	-13 8.6	1.437	2.433	6.2	19.3	6 20	17 11.94	-14 58.5	1.542	2.542	5.2	18.7	
6 30	17 0.21	-13 31.2	1.475	2.435	10.1	19.5	6 30	17 4.66	-15 0.6	1.560	2.527	9.1	18.9	
7 10	16 52.84	-14 2.5	1.536	2.437	13.9	19.8	7 10	16 59.07	-15 11.1	1.601	2.512	12.9	19.1	
7 20	16 48.19	-14 40.8	1.616	2.439	17.3	20.0	7 20	16 55.81	-15 29.8	1.662	2.499	16.3	19.3	
<b>398933</b>	2013 <i>CE</i> <sub>190</sub>	6 11.3 171°94' 1.0"/ 11.1 18						<b>512404</b>	2016 <i>PS</i> <sub>61</sub>	6 11.3 269°52' 0.8"/ 11.3 17				
5 11	17 40.99	-20 39.5	2.577	3.453	9.7	21.9	5 11	17 43.36	-20 15.9	1.875	2.759	12.3	21.7	
5 21	17 35.17	-20 24.5	2.506	3.455	6.9	21.7	5 21	17 37.42	-20 29.1	1.801	2.753	8.8	21.5	
5 31	17 27.96	-20 8.8	2.461	3.456	3.8	21.5	5 31	17 29.42	-20 43.7	1.751	2.748	4.9	21.2	
6 10	17 19.96	-19 53.2	2.444	3.458	1.0	21.3	6 10	17 20.18	-20 59.0	1.727	2.742	0.9	20.9	
6 20	17 11.90	-19 38.2	2.455	3.459	3.1	21.5	6 20	17 10.68	-21 14.4	1.730	2.736	3.9	21.1	
6 30	17 4.49	-19 25.1	2.495	3.460	6.3	21.7	6 30	17 2.00	-21 30.1	1.760	2.730	8.0	21.4	
7 10	16 58.36	-19 15.0	2.560	3.460	9.1	21.8	7 10	16 55.06	-21 46.7	1.815	2.724	11.7	21.6	
7 20	16 53.93	-19 8.7	2.649	3.460	11.6	22.0	7 20	16 50.47	-22 4.9	1.890	2.718	14.9	21.8	
<b>499056</b>	2009 <i>DO</i> <sub>116</sub>	6 11.3 46°69' 3.4"/ 11.8 17						<b>474726</b>	2005 <i>MM</i> <sub>28</sub>	6 11.3 333°97' 2.3"/ 12.0 17				
5 11	17 46.93	-29 51.7	1.244	2.138	16.6	21.1	5 11	17 42.83	-31 10.5	1.747	2.628	13.2	20.0	
5 21	17 40.67	-30 12.2	1.192	2.146	12.1	20.9	5 21	17 37.19	-30 42.0	1.671	2.619	9.7	19.7	
5 31	17 31.37	-30 22.9	1.161	2.155	7.3	20.6	5 31	17 29.32	-30 2.0	1.618	2.610	5.8	19.5	
6 10	17 20.37	-30 20.9	1.153	2.164	3.5	20.6	6 10	17 20.16	-29 10.4	1.590	2.601	2.5	19.3	
6 20	17 9.30	-30 5.9	1.169	2.173	5.7	20.6	6 20	17 10.87	-28 9.3	1.588	2.593	4.3	19.4	
6 30	16 59.82	-29 40.7	1.209	2.183	10.3	20.9	6 30	17 2.65	-27 2.7	1.613	2.586	8.3	19.6	
7 10	16 53.19	-29 10.8	1.270	2.192	14.7	21.1	7 10	16 56.47	-25 55.9	1.662	2.579	12.2	19.8	
7 20	16 50.01	-28 40.9	1.349	2.203	18.4	21.4	7 20	16 52.89	-24 53.6	1.732	2.573	15.5	20.0	
<b>289456</b>	2005 <i>EL</i> <sub>60</sub>	6 11.3 29°27' 3.0"/ 10.9 17						<b>359007</b>	2008 <i>UJ</i> <sub>122</sub>	6 11.3 197°76' 3.0"/ 11.8 17				
5 11	17 42.29	-18 49.8	1.055	1.967	17.4	19.5	5 11	17 48.83	-30 13.0	1.398	2.283	15.7	21.1	
5 21	17 37.28	-18 14.9	1.014	1.978	12.5	19.3	5 21	17 41.94	-30 19.7	1.332	2.282	11.5	20.8	
5 31	17 29.45	-17 42.5	0.993	1.991	7.1	19.0	5 31	17 32.09	-30 16.2	1.288	2.281	6.9	20.6	
6 10	17 20.14	-17 15.1	0.993	2.006	3.0	18.8	6 10	17 20.50	-30 0.0	1.269	2.279	3.2	20.3	
6 20	17 10.91	-16 55.2	1.016	2.021	6.1	19.0	6 20	17 8.69	-29 31.1	1.274	2.278	5.3	20.5	
6 30	17 3.29	-16 44.8	1.061	2.037	11.2	19.4	6 30	16 58.30	-28 53.0	1.304	2.276	9.9	20.7	
7 10	16 58.37	-16 45.1	1.126	2.054	15.7	19.7	7 10	16 50.58	-28 11.0	1.357	2.274	14.4	21.0	
7 20	16 56.65	-16 55.2	1.209	2.072	19.5	20.0	7 20	16 46.22	-27 30.7	1.429	2.272	18.1	21.2	
<b>398519</b>	2011 <i>UF</i> <sub>268</sub>	6 11.3 201°01' 0.2"/ 11.3 18						<b>324903</b>	2007 <i>VU</i> <sub>183</sub>	6 11.3 199°25' 1.5"/ 11.6 17				
5 11	17 42.02	-23 1.5	2.669	3.541	9.5	21.8	5 11	17 47.52	-28 5.7	1.782	2.659	13.2	21.6	
5 21														

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6 11.3

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	
<b>236599</b>	2006 JZ <sub>12</sub>	6 11.3 270°08 3°5/10.7 18						<b>367504</b>	2009 JR <sub>16</sub>	6 11.3 4°25 0°4/11.4 17				
5 11	17 41.81	-14 31.8	1.914	2.795	12.3	20.8	5 11	17 39.84	-24 38.9	0.977	1.896	17.8	19.9	
5 21	17 36.19	-14 8.3	1.840	2.787	9.0	20.6	5 21	17 36.04	-24 30.3	0.926	1.894	12.8	19.6	
5 31	17 28.70	-13 49.1	1.790	2.780	5.6	20.3	5 31	17 29.05	-24 16.7	0.893	1.894	7.0	19.3	
6 10	17 20.10	-13 36.1	1.766	2.772	3.5	20.2	6 10	17 20.18	-23 58.0	0.881	1.896	1.0	18.9	
6 20	17 11.30	-13 30.3	1.768	2.764	5.2	20.3	6 20	17 11.13	-23 35.7	0.890	1.899	5.4	19.2	
6 30	17 3.28	-13 32.8	1.797	2.757	8.7	20.5	6 30	17 3.67	-23 13.1	0.921	1.904	11.2	19.5	
7 10	16 56.87	-13 43.8	1.850	2.749	12.1	20.7	7 10	16 59.13	-22 54.0	0.970	1.911	16.3	19.8	
7 20	16 52.64	-14 2.7	1.924	2.742	15.1	20.8	7 20	16 58.15	-22 41.0	1.037	1.918	20.6	20.1	
<b>307577</b>	2003 FW <sub>127</sub>	6 11.3 261°28 8°6/ 8.4 18						<b>111050</b>	2001 VK <sub>37</sub>	6 11.3 240°95 0°6/11.4 17				
5 11	17 42.36	- 2 53.6	1.905	2.759	13.5	19.7	5 11	17 48.44	-23 19.7	1.623	2.506	14.0	20.4	
5 21	17 36.60	- 1 30.6	1.828	2.741	11.2	19.5	5 21	17 41.53	-23 44.7	1.541	2.492	10.1	20.2	
5 31	17 28.95	- 0 18.5	1.774	2.724	9.3	19.3	5 31	17 31.92	-24 9.0	1.482	2.478	5.6	19.9	
6 10	17 20.14	+ 0 37.3	1.745	2.706	8.7	19.3	6 10	17 20.55	-24 30.5	1.449	2.464	0.9	19.5	
6 20	17 11.05	+ 1 12.6	1.741	2.688	9.8	19.3	6 20	17 8.67	-24 47.5	1.443	2.449	4.4	19.7	
6 30	17 2.67	+ 1 25.4	1.762	2.669	12.2	19.4	6 30	16 57.69	-25 0.0	1.463	2.433	9.2	20.0	
7 10	16 55.84	+ 1 16.4	1.804	2.650	14.8	19.5	7 10	16 48.87	-25 9.9	1.506	2.416	13.6	20.2	
7 20	16 51.16	+ 0 48.3	1.865	2.631	17.3	19.7	7 20	16 43.01	-25 19.4	1.570	2.399	17.4	20.4	
<b>389209</b>	2009 DR <sub>27</sub>	6 11.3 275°49 0°9/11.5 16						<b>208400</b>	2001 SF <sub>203</sub>	6 11.3 206°90 0°8/11.5 18				
5 11	17 42.90	-25 42.3	2.008	2.889	11.8	21.7	5 11	17 42.87	-25 24.1	2.245	3.121	10.9	20.7	
5 21	17 37.03	-25 45.9	1.931	2.881	8.5	21.5	5 21	17 36.81	-25 30.2	2.171	3.119	7.8	20.5	
5 31	17 29.19	-25 45.7	1.877	2.873	4.7	21.3	5 31	17 29.01	-25 33.1	2.122	3.117	4.3	20.3	
6 10	17 20.16	-25 40.8	1.850	2.864	1.1	21.0	6 10	17 20.19	-25 31.9	2.100	3.114	1.0	20.0	
6 20	17 10.91	-25 31.3	1.850	2.856	3.6	21.2	6 20	17 11.21	-25 26.8	2.106	3.111	3.3	20.2	
6 30	17 2.47	-25 18.5	1.877	2.847	7.5	21.4	6 30	17 2.99	-25 18.6	2.140	3.109	6.9	20.4	
7 10	16 55.73	-25 4.6	1.929	2.839	11.1	21.6	7 10	16 56.30	-25 9.2	2.199	3.105	10.1	20.6	
7 20	16 51.27	-24 51.8	2.002	2.831	14.2	21.8	7 20	16 51.66	-25 0.4	2.280	3.102	12.9	20.8	
<b>261976</b>	2006 QJ <sub>10</sub>	6 11.3 263°90 1°0/11.3 18						<b>25704</b>	Kendrick	6 11.3 263°11 2°0/10.9 18				
5 11	17 46.17	-19 33.3	1.603	2.489	13.9	20.3	5 11	17 42.19	-18 21.8	1.975	2.858	11.9	18.9	
5 21	17 39.85	-19 54.3	1.521	2.474	10.1	20.0	5 21	17 36.47	-18 0.9	1.899	2.850	8.6	18.7	
5 31	17 30.96	-20 18.5	1.462	2.459	5.6	19.7	5 31	17 28.87	-17 41.2	1.847	2.841	4.9	18.4	
6 10	17 20.39	-20 44.7	1.429	2.444	1.2	19.4	6 10	17 20.18	-17 23.7	1.821	2.833	2.1	18.2	
6 20	17 9.32	-21 11.6	1.422	2.428	4.5	19.6	6 20	17 11.28	-17 9.4	1.822	2.824	4.3	18.3	
6 30	16 59.10	-21 38.6	1.441	2.412	9.3	19.8	6 30	17 3.17	-16 59.9	1.851	2.816	8.0	18.5	
7 10	16 50.93	-22 6.2	1.484	2.396	13.7	20.0	7 10	16 56.66	-16 56.2	1.903	2.807	11.5	18.7	
7 20	16 45.58	-22 34.9	1.546	2.379	17.5	20.2	7 20	16 52.32	-16 58.8	1.977	2.798	14.6	18.9	
<b>303370</b>	2004 VR <sub>28</sub>	6 11.3 106°93 6°9/11.1 18						<b>179451</b>	2002 AC <sub>171</sub>	6 11.3 302°12 2°5/11.1 18				
5 11	17 58.05	-36 3.3	1.665	2.518	15.2	20.7	5 11	17 41.09	-15 23.0	2.029	2.910	11.7	19.8	
5 21	17 48.48	-37 54.0	1.619	2.541	11.8	20.5	5 21	17 35.71	-15 27.4	1.948	2.896	8.5	19.5	
5 31	17 35.71	-39 31.8	1.596	2.564	8.6	20.3	5 31	17 28.49	-15 36.8	1.891	2.883	5.1	19.3	
6 10	17 20.96	-40 48.5	1.601	2.586	6.9	20.3	6 10	17 20.14	-15 51.5	1.859	2.869	2.6	19.1	
6 20	17 5.91	-41 39.0	1.632	2.607	8.0	20.4	6 20	17 11.50	-16 11.6	1.855	2.856	4.4	19.2	
6 30	16 52.34	-42 3.9	1.690	2.627	10.7	20.6	6 30	17 3.51	-16 36.8	1.878	2.843	8.0	19.4	
7 10	16 41.65	-42 8.7	1.772	2.647	13.7	20.8	7 10	16 57.02	-17 6.8	1.926	2.830	11.4	19.6	
7 20	16 34.58	-42 0.5	1.873	2.666	16.3	21.1	7 20	16 52.61	-17 40.9	1.994	2.817	14.4	19.8	
<b>393213</b>	2013 EY	6 11.3 168°50 5°5/11.7 18						<b>301004</b>	2008 GH <sub>117</sub>	6 11.3 152°07 4°9/ 9.9 18				
5 11	17 46.99	-38 50.3	2.442	3.284	11.3	20.9	5 11	17 39.40	- 5 50.5	2.965	3.813	9.4	21.4	
5 21	17 39.94	-39 47.3	2.372	3.286	8.9	20.8	5 21	17 33.85	- 5 9.9	2.904	3.821	7.4	21.3	
5 31	17 30.80	-40 33.8	2.327	3.287	6.7	20.6	5 31	17 27.20	- 4 36.7	2.869	3.829	5.6	21.2	
6 10	17 20.37	-41 5.9	2.309	3.289	5.5	20.5	6 10	17 19.97	- 4 13.0	2.862	3.837	4.9	21.1	
6 20	17 9.67	-41 21.7	2.318	3.290	6.1	20.6	6 20	17 12.71	- 3 59.8	2.882	3.843	5.7	21.2	
6 30	16 59.78	-41 21.8	2.354	3.291	8.1	20.7	6 30	17 6.00	- 3 57.8	2.930	3.850	7.4	21.3	
7 10	16 51.64	-41 9.1	2.415	3.292	10.5	20.9	7 10	17 0.31	- 4 6.4	3.003	3.856	9.3	21.4	
7 20	16 45.88	-40 47.8	2.497	3.293	12.7	21.0	7 20	16 56.02	- 4 24.4	3.097	3.861	11.1	21.6	
<b>119435</b>	2001 TP <sub>133</sub>	6 11.3 244°42 0°9/11.3 18						<b>89035</b>	2001 TM <sub>107</sub>	6 11.3 152°93 0°2/11.4 18				
5 11	17 45.54	-19 35.3	1.907	2.786	12.4	19.5	5 11	17 45.54	-24 18.1	2.200	3.073	11.2	19.5	
5 21	17 39.05	-19 54.1	1.824	2.773	8.9	19.2	5 21	17 38.60	-24 8.9	2.135	3.082	8.0	19.4	
5 31	17 30.39	-20 15.2	1.764	2.760	5.0	19.0	5 31	17 29.92	-23 56.5	2.095	3.090	4.4	19.1	
6 10	17 20.34	-20 37.7	1.732	2.747	1.1	18.6	6 10	17 20.29	-23 40.6	2.083	3.098	0.6	18.9	
6 20	17 9.91	-21 0.6	1.727	2.732	4.0	18.8	6 20	17 10.64	-23 22.0	2.099	3.104	3.3	19.1	
6 30	17 0.22	-21 23.7	1.750	2.718	8.2	19.1	6 30	17 1.86	-23 2.2	2.144	3.111	7.0	19.3	
7 10	16 52.26	-21 47.3	1.797	2.703	12.0	19.3	7 10	16 54.74	-22 43.5	2.214	3.116	10.2	19.5	
7 20	16 46.71	-22 12.1	1.866	2.688	15.3	19.4	7 20	16 49.73	-22 27.6	2.306	3.121	13.0	19.7	
<b>355729</b>	2008 GX <sub>89</sub>	6 11.3 276°64 4°0/10.3 18						<b>63099</b>	2000 WM <sub>146</sub>	6 11.3 274°08 7°2/ 9.7 18				
5 11	17 39.57	-11 54.1	2.303	3.176	10.8	20.6	5 11	17 40.19	- 1 3.0	2.434	3.273	11.5	19.0	
5 21	17 34.33	-11 20.1	2.229	3.169	8.1	20.4	5 21	17 34.80	- 0 26.5	2.347	3.250	9.5	18.8	
5 31	17 27.59	-10 51.2	2.179	3.162	5.5	20.2	5 31	17 27.90	- 0 1.8	2.283	3.226	7.8	18.7	
6 10	17 19.99	-10 29.4	2.156	3.155	4.0	20.1	6 10	17 20.07	+ 0 8.1	2.244	3.202	7.2	18.6	
6 20	17 12.26	-10 16.2	2.160	3.148	5.3	20.2	6 20	17 11.97	+ 0 1.5	2.232	3.178	8.0	18.6	
6 30	17 5.15	-10 12.7	2.191	3.140	8.0	20.4	6 30	17 4.36	- 0 22.0	2.245	3.154	9.8	18.7	
7 10	16 59.35	-10 18.8	2.247	3.133	10.8	20.5	7 10	16 57.93	- 1 1.1	2.282	3.129	12.1	18.8	
7 20	16 55.32	-10 33.9	2.324	3.126	13.3	20.7	7 20	16 53.17	- 1 53.4	2.339	3.104	14.3	18.9	
<b>222654</b>	2001 XH <sub>185</sub>	6 11.3 87°65 0°4/11.2 17						<b>111747</b>	2002 CZ <sub>108</sub>	6 11.3 154°05 7°9/ 9.4 18				
5 11	17 45.23	-23 38.4	1.714	2.599	13.2	19.9	5 11	17 39.15	+ 6 28.1	2.982	3.778	10.6	20.4	
5 21	17 38.62	-23 11.3	1.660	2.613	9.4	19.7	5 21	17 33.67	+ 7 12					

EPHEMERIDES

6 11.3

6 11.3

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>327205</b>	2005 <i>NU</i> <sub>48</sub>		6 11.3 334°74	8°3/13.4	18		<b>437702</b>	2014 <i>DX</i> <sub>42</sub>		6 11.3 273°54	2°2/10.9	16	
5 11	17 42.42	-40 18.3	1.103	1.990	18.7	19.4	5 11	17 42.23	-17 30.9	1.924	2.807	12.1	20.9
5 21	17 38.45	-40 26.8	1.028	1.968	15.1	19.1	5 21	17 36.57	-17 16.8	1.847	2.798	8.8	20.7
5 31	17 30.67	-40 10.1	0.970	1.947	11.3	18.8	5 31	17 28.98	-17 5.1	1.795	2.789	5.1	20.4
6 10	17 20.44	-39 22.4	0.932	1.928	8.6	18.6	6 10	17 20.24	-16 56.5	1.768	2.779	2.3	20.2
6 20	17 9.68	-38 2.3	0.916	1.910	9.2	18.5	6 20	17 11.27	-16 51.9	1.768	2.770	4.4	20.3
6 30	17 0.58	-36 16.1	0.921	1.893	12.9	18.7	6 30	17 3.07	-16 52.3	1.795	2.761	8.2	20.5
7 10	16 54.85	-34 15.7	0.945	1.878	17.4	18.9	7 10	16 56.51	-16 58.3	1.846	2.751	11.8	20.7
7 20	16 53.28	-32 13.5	0.986	1.865	21.6	19.1	7 20	16 52.16	-17 10.3	1.918	2.742	14.9	20.9
<b>255761</b>	2006 <i>RM</i> <sub>42</sub>		6 11.3 209°21	1°2/11.5	17		<b>108693</b>	2001 <i>OA</i> <sub>12</sub>		6 11.3 165°23	2°2/11.2	18	
5 11	17 46.76	-26 6.7	1.754	2.634	13.2	21.7	5 11	17 45.24	-16 25.5	1.980	2.855	12.2	19.1
5 21	17 40.03	-26 15.2	1.681	2.631	9.5	21.5	5 21	17 38.57	-16 30.5	1.913	2.860	8.8	18.9
5 31	17 30.94	-26 19.1	1.631	2.626	5.4	21.2	5 31	17 30.01	-16 39.5	1.871	2.863	5.1	18.7
6 10	17 20.45	-26 17.0	1.608	2.622	1.4	20.9	6 10	17 20.36	-16 52.3	1.855	2.867	2.2	18.5
6 20	17 9.71	-26 8.7	1.612	2.617	4.1	21.1	6 20	17 10.56	-17 8.8	1.868	2.869	4.3	18.6
6 30	16 59.98	-25 55.6	1.642	2.612	8.4	21.3	6 30	17 1.61	-17 28.8	1.908	2.872	7.9	18.9
7 10	16 52.29	-25 40.5	1.696	2.606	12.4	21.6	7 10	16 54.34	-17 52.5	1.973	2.873	11.4	19.1
7 20	16 47.30	-25 26.5	1.771	2.600	15.7	21.8	7 20	16 49.30	-18 19.5	2.059	2.875	14.3	19.3
<b>191787</b>	2004 <i>TZ</i> <sub>126</sub>		6 11.3 117°28	5°1/10.3	18		<b>71835</b>	2000 <i>UJ</i> <sub>69</sub>		6 11.3 167°15	4°5/11.8	18	
5 11	17 43.32	- 9 12.2	2.137	3.001	11.9	20.8	5 11	17 49.67	-32 54.7	1.593	2.467	14.7	20.1
5 21	17 36.88	- 8 28.2	2.087	3.018	9.0	20.6	5 21	17 42.43	-33 32.7	1.529	2.469	11.1	19.9
5 31	17 28.91	- 7 52.0	2.061	3.036	6.4	20.5	5 31	17 32.38	-34 0.3	1.487	2.471	7.2	19.7
6 10	17 20.19	- 7 26.2	2.062	3.052	5.1	20.4	6 10	17 20.65	-34 13.4	1.469	2.473	4.6	19.5
6 20	17 11.50	- 7 12.3	2.091	3.068	6.3	20.5	6 20	17 8.67	-34 10.2	1.478	2.474	6.0	19.6
6 30	17 3.68	- 7 10.8	2.146	3.084	8.7	20.7	6 30	16 57.97	-33 52.6	1.512	2.475	9.6	19.8
7 10	16 57.37	- 7 21.2	2.225	3.099	11.4	20.9	7 10	16 49.79	-33 25.3	1.569	2.476	13.4	20.0
7 20	16 52.99	- 7 41.8	2.325	3.113	13.7	21.1	7 20	16 44.79	-32 53.9	1.647	2.476	16.7	20.2
<b>523589</b>	2001 <i>HA</i> <sub>4</sub>		6 11.3 139°31	4°6/12.9	18 C		<b>161614</b>	2005 <i>UG</i> <sub>427</sub>		6 11.3 197°50	1°8/11.6	17	
5 11	17 52.08	-44 18.6	3.795	4.589	8.6	24.5	5 11	17 45.97	-27 46.8	1.895	2.771	12.6	21.4
5 21	17 42.79	-44 44.6	3.734	4.611	7.0	24.4	5 21	17 39.33	-27 56.5	1.823	2.770	9.1	21.2
5 31	17 32.06	-44 58.9	3.699	4.631	5.5	24.3	5 31	17 30.52	-28 0.5	1.775	2.768	5.3	21.0
6 10	17 20.57	-44 59.5	3.694	4.651	4.7	24.3	6 10	17 20.43	-27 57.2	1.753	2.766	1.9	20.8
6 20	17 9.11	-44 46.0	3.718	4.669	4.9	24.3	6 20	17 10.14	-27 46.6	1.759	2.763	4.0	20.9
6 30	16 58.45	-44 19.7	3.772	4.686	6.1	24.4	6 30	17 0.82	-27 30.0	1.791	2.760	7.9	21.1
7 10	16 49.25	-43 43.6	3.853	4.702	7.5	24.5	7 10	16 53.42	-27 10.4	1.848	2.757	11.6	21.3
7 20	16 41.91	-43 1.1	3.959	4.717	9.0	24.7	7 20	16 48.54	-26 51.0	1.927	2.754	14.7	21.5
<b>95279</b>	2002 <i>CO</i> <sub>76</sub>		6 11.3 328°52	0°6/11.4	18		<b>62246</b>	2000 <i>SK</i> <sub>78</sub>		6 11.3 4°24	3°6/11.7	17	
5 11	17 42.92	-24 55.5	1.510	2.404	14.2	19.1	5 11	17 43.67	-29 46.4	1.327	2.222	15.7	18.6
5 21	17 37.55	-24 53.7	1.439	2.396	10.2	18.8	5 21	17 38.42	-30 20.4	1.267	2.221	11.6	18.4
5 31	17 29.69	-24 47.9	1.390	2.388	5.7	18.6	5 31	17 30.28	-30 46.6	1.229	2.222	7.1	18.1
6 10	17 20.32	-24 37.3	1.365	2.380	1.0	18.2	6 10	17 20.42	-31 1.3	1.213	2.223	3.7	17.9
6 20	17 10.66	-24 22.3	1.366	2.373	4.3	18.4	6 20	17 10.29	-31 3.0	1.222	2.225	5.7	18.0
6 30	17 2.06	-24 5.0	1.391	2.366	9.1	18.7	6 30	17 1.49	-30 53.4	1.254	2.227	10.0	18.3
7 10	16 55.63	-23 48.2	1.439	2.360	13.4	18.9	7 10	16 55.27	-30 36.4	1.307	2.231	14.3	18.5
7 20	16 52.05	-23 34.6	1.506	2.354	17.1	19.2	7 20	16 52.31	-30 16.6	1.380	2.235	18.0	18.8
<b>466073</b>	2011 <i>YA</i> <sub>20</sub>		6 11.3 165°69	0°1/11.3	17		<b>429574</b>	2011 <i>EP</i> <sub>3</sub>		6 11.3 89°47	2°7/11.8	17	
5 11	17 47.56	-23 31.9	1.694	2.576	13.5	22.2	5 11	17 47.61	-30 5.2	1.753	2.629	13.5	21.6
5 21	17 40.49	-23 23.6	1.629	2.580	9.7	22.0	5 21	17 40.44	-30 20.6	1.703	2.648	9.8	21.4
5 31	17 31.13	-23 12.1	1.587	2.584	5.3	21.7	5 31	17 31.04	-30 27.7	1.676	2.667	5.9	21.2
6 10	17 20.48	-22 57.2	1.572	2.587	0.6	21.4	6 10	17 20.49	-30 24.7	1.676	2.685	2.9	21.1
6 20	17 9.71	-22 39.5	1.584	2.589	4.1	21.6	6 20	17 10.00	-30 11.5	1.702	2.704	4.5	21.2
6 30	17 0.06	-22 21.2	1.622	2.591	8.5	21.9	6 30	17 0.76	-29 50.4	1.754	2.722	8.2	21.5
7 10	16 52.51	-22 4.8	1.684	2.593	12.5	22.1	7 10	16 53.70	-29 25.1	1.831	2.739	11.7	21.7
7 20	16 47.65	-21 52.5	1.767	2.594	15.9	22.4	7 20	16 49.33	-28 59.3	1.928	2.757	14.7	21.9
<b>123425</b>	2000 <i>WM</i> <sub>110</sub>		6 11.3 242°53	1°5/11.6	18		<b>210610</b>	2000 <i>BQ</i> <sub>9</sub>		6 11.3 178°68	0°7/11.2	17	
5 11	17 45.22	-27 34.2	2.024	2.900	11.9	20.7	5 11	17 46.18	-21 28.8	1.939	2.817	12.3	22.0
5 21	17 38.76	-27 34.1	1.941	2.888	8.7	20.4	5 21	17 39.32	-21 22.7	1.869	2.819	8.8	21.8
5 31	17 30.20	-27 28.3	1.882	2.876	5.0	20.2	5 31	17 30.45	-21 15.5	1.824	2.820	4.8	21.6
6 10	17 20.38	-27 15.6	1.850	2.863	1.6	19.9	6 10	17 20.44	-21 7.3	1.806	2.820	0.9	21.3
6 20	17 10.29	-26 56.2	1.845	2.850	3.8	20.1	6 20	17 10.28	-20 58.5	1.815	2.820	3.8	21.5
6 30	17 1.02	-26 31.9	1.868	2.837	7.7	20.3	6 30	17 1.04	-20 50.4	1.852	2.820	7.8	21.7
7 10	16 53.53	-26 5.5	1.916	2.823	11.3	20.5	7 10	16 53.60	-20 44.6	1.914	2.819	11.5	22.0
7 20	16 48.41	-25 40.1	1.985	2.809	14.5	20.6	7 20	16 48.51	-20 42.5	1.998	2.817	14.6	22.2
<b>435819</b>	2008 <i>WJ</i> <sub>37</sub>		6 11.3 227°63	2°3/11.5	18		<b>158439</b>	2002 <i>CN</i> <sub>71</sub>		6 11.3 288°21	3°4/11.1	18	
5 11	17 46.65	-28 33.7	2.369	3.234	10.8	21.6	5 11	17 43.10	-14 18.0	1.685	2.569	13.5	19.9
5 21	17 39.66	-29 13.8	2.282	3.223	7.9	21.4	5 21	17 37.45	-14 14.4	1.608	2.557	10.0	19.6
5 31	17 30.69	-29 50.0	2.221	3.210	4.8	21.2	5 31	17 29.59	-14 17.4	1.554	2.545	6.1	19.4
6 10	17 20.44	-30 19.8	2.188	3.197	2.4	21.0	6 10	17 20.35	-14 27.9	1.525	2.533	3.5	19.2
6 20	17 9.83	-30 41.4	2.184	3.184	3.9	21.1	6 20	17 10.77	-14 46.2	1.522	2.521	5.4	19.3
6 30	16 59.85	-30 54.7	2.208	3.169	7.1	21.2	6 30	17 2.01	-15 12.1	1.545	2.509	9.4	19.5
7 10	16 51.41	-31 1.3	2.258	3.155	10.3	21.4	7 10	16 55.07	-15 45.1	1.591	2.497	13.2	19.7
7 20	16 45.14	-31 3.5	2.331	3.139	13.1	21.6	7 20	16 50.62	-16 24.1	1.657	2.486	16.7	19.9
<b>277220</b>	2005 <i>QX</i> <sub>156</sub>		6 11.3 324°31	0°7/11.1	18								

EPHEMERIDES

6 11.3

6 11.4

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>169434</b>	2002 AE <sub>47</sub>		6 11.3 73°86	1.6°/11.2	17		<b>241163</b>	2007 RD <sub>110</sub>		6 11.4 292°81	3.6°/10.8	17	
5 11	17 46.49	-19 47.7	1.310	2.205	15.8	20.2	5 11	17 41.78	-14 22.4	1.871	2.753	12.5	20.3
5 21	17 40.06	-19 43.4	1.259	2.216	11.3	19.9	5 21	17 36.22	-13 58.4	1.801	2.749	9.2	20.1
5 31	17 31.01	-19 40.6	1.230	2.228	6.3	19.7	5 31	17 28.80	-13 39.3	1.755	2.745	5.8	19.9
6 10	17 20.51	-19 39.4	1.225	2.239	1.7	19.4	6 10	17 20.27	-13 26.5	1.735	2.741	3.6	19.7
6 20	17 9.98	-19 40.0	1.245	2.251	5.0	19.7	6 20	17 11.58	-13 21.4	1.741	2.737	5.3	19.8
6 30	17 0.85	-19 43.7	1.289	2.262	9.9	20.0	6 30	17 3.70	-13 24.9	1.773	2.733	8.7	20.0
7 10	16 54.21	-19 51.5	1.356	2.274	14.3	20.3	7 10	16 57.46	-13 37.0	1.829	2.729	12.1	20.2
7 20	16 50.63	-20 4.1	1.441	2.285	17.9	20.5	7 20	16 53.42	-13 57.0	1.905	2.725	15.1	20.4
<b>218605</b>	2005 ND <sub>91</sub>		6 11.3 29°66	6.4°/10.5	17		<b>345898</b>	2007 RB <sub>98</sub>		6 11.4 346°03	5.2°/11.3	16	
5 11	17 42.46	-10 26.5	1.328	2.219	15.9	20.0	5 11	17 39.25	-30 15.2	1.147	2.054	16.6	19.0
5 21	17 37.10	-9 44.1	1.277	2.224	12.1	19.8	5 21	17 35.86	-31 24.0	1.078	2.037	12.5	18.7
5 31	17 29.37	-9 12.7	1.246	2.230	8.4	19.6	5 31	17 29.22	-32 27.7	1.028	2.021	8.2	18.4
6 10	17 20.32	-8 55.8	1.238	2.236	6.4	19.5	6 10	17 20.36	-33 19.9	1.000	2.007	5.3	18.1
6 20	17 11.19	-8 55.4	1.254	2.243	8.0	19.6	6 20	17 10.84	-33 56.0	0.994	1.995	7.2	18.2
6 30	17 3.25	-9 11.8	1.294	2.250	11.6	19.8	6 30	17 2.49	-34 14.6	1.009	1.984	11.7	18.4
7 10	16 57.52	-9 43.3	1.354	2.258	15.3	20.1	7 10	16 56.95	-34 18.8	1.044	1.976	16.3	18.7
7 20	16 54.56	-10 26.6	1.433	2.266	18.6	20.3	7 20	16 55.14	-34 13.3	1.096	1.970	20.4	18.9
<b>297726</b>	2001 WN <sub>31</sub>		6 11.3 193°96	2.8°/10.5	17		<b>356798</b>	2011 UL <sub>330</sub>		6 11.4 228°91	2.0°/11.7	18	
5 11	17 41.13	-16 11.3	2.253	3.130	10.8	20.9	5 11	17 43.19	-29 10.0	2.516	3.384	10.2	21.3
5 21	17 35.46	-15 31.6	2.183	3.130	7.9	20.7	5 21	17 37.04	-29 28.6	2.435	3.376	7.4	21.1
5 31	17 28.25	-14 53.7	2.139	3.129	4.8	20.5	5 31	17 29.19	-29 42.2	2.379	3.369	4.5	20.9
6 10	17 20.18	-14 19.7	2.121	3.128	2.9	20.4	6 10	17 20.33	-29 49.4	2.350	3.360	2.1	20.7
6 20	17 12.03	-13 51.1	2.131	3.127	4.5	20.5	6 20	17 11.25	-29 49.6	2.350	3.352	3.5	20.8
6 30	17 4.60	-13 29.8	2.169	3.126	7.5	20.7	6 30	17 2.83	-29 43.4	2.378	3.343	6.5	21.0
7 10	16 58.58	-13 16.6	2.231	3.125	10.5	20.9	7 10	16 55.82	-29 32.8	2.432	3.334	9.5	21.2
7 20	16 54.42	-13 11.8	2.316	3.123	13.2	21.1	7 20	16 50.75	-29 20.1	2.509	3.325	12.0	21.3
<b>501797</b>	2014 VJ <sub>36</sub>		6 11.3 86°73	3.3°/10.7	17		<b>46490</b>	4164 T-2		6 11.4 153°21	0.8°/11.5	18	
5 11	17 44.97	-17 27.0	1.437	2.329	14.9	21.1	5 11	17 47.63	-24 51.5	1.819	2.697	12.9	19.7
5 21	17 38.81	-16 43.4	1.380	2.334	10.8	20.8	5 21	17 40.48	-25 2.2	1.756	2.704	9.3	19.5
5 31	17 30.28	-16 1.7	1.344	2.339	6.4	20.6	5 31	17 31.15	-25 9.6	1.716	2.711	5.1	19.3
6 10	17 20.43	-15 24.7	1.333	2.343	3.4	20.4	6 10	17 20.57	-25 12.2	1.703	2.717	1.0	19.0
6 20	17 10.52	-14 54.9	1.348	2.348	5.8	20.6	6 20	17 9.88	-25 9.9	1.717	2.723	3.9	19.2
6 30	17 1.82	-14 34.9	1.387	2.353	10.1	20.8	6 30	17 0.24	-25 3.8	1.758	2.728	8.0	19.5
7 10	16 55.35	-14 25.9	1.449	2.357	14.2	21.1	7 10	16 52.60	-24 56.4	1.824	2.732	11.8	19.7
7 20	16 51.65	-14 27.9	1.529	2.362	17.6	21.3	7 20	16 47.53	-24 50.0	1.912	2.736	14.9	19.9
<b>68944</b>	2002 PQ <sub>130</sub>		6 11.3 142°16	8.2°/ 8.9	18		<b>179321</b>	2001 WE <sub>34</sub>		6 11.4 153°20	0.3°/11.3	18	
5 11	17 44.94	- 0 7.1	2.267	3.096	12.5	19.1	5 11	17 42.18	-21 50.3	2.666	3.538	9.5	21.3
5 21	17 37.96	+ 1 13.1	2.219	3.112	10.4	19.0	5 21	17 36.06	-21 54.0	2.598	3.545	6.8	21.1
5 31	17 29.52	+ 2 20.0	2.195	3.127	8.8	18.9	5 31	17 28.54	-21 56.9	2.556	3.552	3.7	20.9
6 10	17 20.33	+ 3 9.5	2.197	3.140	8.2	18.9	6 10	17 20.25	-21 58.9	2.543	3.558	0.5	20.7
6 20	17 11.18	+ 3 39.3	2.226	3.153	9.0	18.9	6 20	17 11.89	-21 59.9	2.558	3.563	2.9	20.9
6 30	17 2.84	+ 3 48.6	2.281	3.165	10.7	19.1	6 30	17 4.16	-22 0.6	2.603	3.569	5.9	21.1
7 10	16 55.96	+ 3 39.1	2.358	3.176	12.7	19.2	7 10	16 57.71	-22 1.9	2.673	3.574	8.8	21.3
7 20	16 50.94	+ 3 13.8	2.455	3.186	14.5	19.4	7 20	16 52.95	-22 4.7	2.767	3.578	11.2	21.5
<b>391733</b>	2008 CU <sub>174</sub>		6 11.4 1°76	5.1°/10.3	16		<b>138626</b>	2000 QM <sub>248</sub>		6 11.4 212°26	0.1°/11.3	18	
5 11	17 39.31	-11 15.9	1.783	2.666	12.9	20.8	5 11	17 42.06	-22 55.0	2.453	3.328	10.1	20.8
5 21	17 34.46	-10 34.2	1.721	2.665	9.8	20.6	5 21	17 36.15	-22 52.9	2.375	3.324	7.2	20.6
5 31	17 27.81	-9 59.9	1.682	2.665	6.7	20.5	5 31	17 28.67	-22 49.3	2.323	3.319	4.0	20.4
6 10	17 20.14	-9 35.7	1.667	2.665	5.1	20.4	6 10	17 20.27	-22 43.8	2.299	3.314	0.5	20.1
6 20	17 12.35	-9 23.6	1.679	2.666	6.5	20.5	6 20	17 11.73	-22 36.8	2.304	3.309	3.1	20.3
6 30	17 5.41	-9 24.6	1.715	2.667	9.5	20.6	6 30	17 3.85	-22 29.1	2.336	3.304	6.4	20.5
7 10	17 0.10	-9 38.2	1.774	2.669	12.7	20.8	7 10	16 57.33	-22 22.2	2.394	3.298	9.5	20.7
7 20	16 56.95	-10 2.9	1.853	2.672	15.5	21.0	7 20	16 52.64	-22 17.3	2.475	3.292	12.2	20.9
<b>290412</b>	2005 TF <sub>55</sub>		6 11.4 185°85	4.4°/10.3	17		<b>78711</b>	2002 TM <sub>187</sub>		6 11.4 335°80	3.7°/11.9	17	
5 11	17 39.89	- 9 59.4	2.472	3.337	10.4	20.8	5 11	17 40.30	-30 37.4	1.062	1.971	17.5	18.5
5 21	17 34.47	- 9 25.2	2.403	3.337	7.9	20.7	5 21	17 36.71	-30 42.5	0.990	1.951	13.1	18.2
5 31	17 27.68	- 8 57.2	2.360	3.337	5.6	20.5	5 31	17 29.70	-30 35.2	0.937	1.933	8.1	17.9
6 10	17 20.13	- 8 37.3	2.344	3.336	4.4	20.5	6 10	17 20.44	-30 12.5	0.904	1.915	3.9	17.6
6 20	17 12.49	- 8 26.9	2.355	3.336	5.4	20.5	6 20	17 10.60	-29 34.3	0.893	1.900	6.2	17.6
6 30	17 5.46	- 8 26.6	2.393	3.335	7.8	20.7	6 30	17 2.14	-28 44.6	0.904	1.886	11.6	17.9
7 10	16 59.67	- 8 36.2	2.456	3.334	10.3	20.8	7 10	16 56.65	-27 50.4	0.933	1.873	16.9	18.1
7 20	16 55.52	- 8 54.8	2.541	3.333	12.6	21.0	7 20	16 55.01	-26 58.4	0.979	1.862	21.5	18.4
<b>150302</b>	1999 TX <sub>234</sub>		6 11.4 245°52	1.8°/11.0	18		<b>259834</b>	2004 CX <sub>30</sub>		6 11.4 208°91	0.9°/11.5	17	
5 11	17 40.60	-17 20.7	2.551	3.425	9.8	20.6	5 11	17 46.82	-25 57.3	1.778	2.658	13.1	21.6
5 21	17 35.06	-17 12.6	2.468	3.414	7.1	20.5	5 21	17 40.05	-25 54.1	1.704	2.654	9.5	21.4
5 31	17 28.05	-17 6.4	2.411	3.404	4.1	20.2	5 31	17 30.99	-25 45.8	1.654	2.649	5.3	21.1
6 10	17 20.18	-17 2.7	2.382	3.393	1.8	20.1	6 10	17 20.57	-25 31.6	1.630	2.644	1.1	20.8
6 20	17 12.13	-17 1.9	2.381	3.382	3.6	20.2	6 20	17 9.93	-25 11.9	1.633	2.639	4.0	21.0
6 30	17 4.63	-17 4.6	2.408	3.370	6.6	20.3	6 30	17 0.30	-24 48.7	1.663	2.633	8.3	21.3
7 10	16 58.36	-17 11.4	2.461	3.359	9.5	20.5	7 10	16 52.69	-24 25.1	1.717	2.627	12.3	21.5
7 20	16 53.77	-17 22.4	2.537	3.347	12.1	20.7	7 20	16 47.72	-24 4.1	1.792	2.620	15.6	21.7
<b>471279</b>	2011 FD <sub>65</sub>		6 11.4 264°52	7.6°/ 9.2	18		<b>475216</b>	2005 VJ <sub>62</sub>		6 11.4 166°42	3.9°/12.2	16	

EPHEMERIDES

6 11.4

6 11.4

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>440102</b>	2003 <i>AK</i> <sub>23</sub>	6 11.4 250°09		7.2/13.8 18			<b>209232</b>	2003 <i>WH</i> <sub>87</sub>	6 11.4 195°01		5.6/12.5 18		
5 11	17 57.84	-41 31.2	1.229	2.089	19.0	20.3	5 11	17 48.34	-41 6.3	2.532	3.364	11.3	20.9
5 21	17 49.21	-41 1.1	1.150	2.076	15.2	20.0	5 21	17 40.88	-41 37.9	2.456	3.361	9.0	20.8
5 31	17 36.45	-40 0.8	1.090	2.063	10.9	19.7	5 31	17 31.37	-41 56.8	2.404	3.358	6.9	20.7
6 10	17 21.25	-38 24.6	1.052	2.049	7.6	19.5	6 10	17 20.64	-41 59.9	2.379	3.355	5.7	20.6
6 20	17 5.89	-36 14.1	1.040	2.034	8.2	19.5	6 20	17 9.73	-41 46.1	2.381	3.351	6.1	20.6
6 30	16 52.70	-33 39.9	1.052	2.020	12.3	19.7	6 30	16 59.71	-41 17.0	2.409	3.346	8.0	20.7
7 10	16 43.33	-30 58.5	1.087	2.004	17.1	19.9	7 10	16 51.49	-40 36.2	2.464	3.341	10.3	20.8
7 20	16 38.40	-28 24.6	1.142	1.989	21.5	20.1	7 20	16 45.65	-39 48.5	2.540	3.336	12.5	21.0
<b>24915</b>	1997 <i>EC</i> <sub>6</sub>	6 11.4 48°26		1.6/11.5 18			<b>7359</b>	Messier	6 11.4 238°04		1.0/11.2 18		
5 11	17 46.08	-25 44.5	1.318	2.214	15.7	18.4	5 11	17 41.28	-20 1.2	2.609	3.483	9.6	18.3
5 21	17 39.93	-26 5.5	1.267	2.224	11.3	18.1	5 21	17 35.55	-19 57.7	2.524	3.472	6.9	18.1
5 31	17 31.03	-26 22.0	1.238	2.235	6.3	17.9	5 31	17 28.36	-19 54.4	2.466	3.460	3.8	17.9
6 10	17 20.58	-26 31.9	1.232	2.246	1.8	17.6	6 10	17 20.28	-19 51.5	2.435	3.449	1.0	17.7
6 20	17 10.05	-26 34.5	1.250	2.257	4.8	17.9	6 20	17 12.01	-19 49.4	2.433	3.437	3.1	17.8
6 30	17 0.95	-26 31.2	1.293	2.269	9.6	18.2	6 30	17 4.30	-19 48.6	2.459	3.425	6.3	18.0
7 10	16 54.42	-26 25.1	1.358	2.280	14.0	18.5	7 10	16 57.82	-19 50.0	2.512	3.412	9.3	18.2
7 20	16 51.06	-26 19.3	1.443	2.293	17.6	18.7	7 20	16 53.03	-19 54.2	2.587	3.399	11.8	18.3
<b>179261</b>	2001 <i>UZ</i> <sub>151</sub>	6 11.4 185°62		2.6/10.6 17			<b>62897</b>	2000 <i>UL</i> <sub>103</sub>	6 11.4 317°71		7.7/10.9 18		
5 11	17 41.16	-16 1.1	2.575	3.447	9.8	21.1	5 11	17 47.32	-36 48.2	1.488	2.361	15.6	17.9
5 21	17 35.35	-15 25.7	2.503	3.447	7.1	20.9	5 21	17 41.52	-38 19.5	1.410	2.343	12.4	17.6
5 31	17 28.17	-14 52.2	2.457	3.446	4.4	20.7	5 31	17 32.37	-39 41.4	1.354	2.326	9.4	17.4
6 10	17 20.23	-14 21.9	2.439	3.445	2.6	20.6	6 10	17 20.82	-40 45.6	1.322	2.310	7.7	17.3
6 20	17 12.22	-13 56.4	2.449	3.444	4.1	20.7	6 20	17 8.40	-41 26.2	1.314	2.294	8.9	17.3
6 30	17 4.85	-13 37.1	2.487	3.443	6.8	20.9	6 30	16 56.99	-41 41.9	1.329	2.278	12.0	17.4
7 10	16 58.72	-13 24.7	2.552	3.441	9.5	21.0	7 10	16 48.26	-41 36.7	1.365	2.263	15.6	17.6
7 20	16 54.24	-13 19.5	2.638	3.438	11.9	21.2	7 20	16 43.25	-41 17.3	1.420	2.249	18.9	17.8
<b>475612</b>	2006 <i>UN</i> <sub>144</sub>	6 11.4 275°61		1.9/10.8 18			<b>249821</b>	2001 <i>FS</i> <sub>150</sub>	6 11.4 84°23		1.4/11.7 17		
5 11	17 41.74	-19 46.1	2.149	3.030	11.1	20.8	5 11	17 48.66	-27 31.0	1.495	2.380	14.9	20.2
5 21	17 36.09	-19 5.6	2.067	3.017	8.0	20.5	5 21	17 41.34	-27 20.9	1.449	2.400	10.7	20.0
5 31	17 28.70	-18 23.8	2.009	3.004	4.6	20.3	5 31	17 31.60	-27 3.4	1.426	2.421	6.0	19.8
6 10	17 20.31	-17 42.2	1.979	2.991	1.9	20.1	6 10	17 20.66	-26 37.8	1.427	2.441	1.7	19.5
6 20	17 11.73	-17 3.0	1.976	2.978	4.1	20.2	6 20	17 9.88	-26 5.8	1.455	2.461	4.3	19.8
6 30	17 3.88	-16 28.5	2.001	2.965	7.6	20.4	6 30	17 0.58	-25 30.6	1.509	2.481	8.8	20.1
7 10	16 57.50	-16 0.6	2.051	2.951	11.0	20.6	7 10	16 53.73	-24 56.3	1.586	2.500	12.8	20.3
7 20	16 53.14	-15 40.7	2.122	2.938	13.9	20.8	7 20	16 49.79	-24 26.3	1.683	2.519	16.1	20.6
<b>490208</b>	2008 <i>UW</i> <sub>359</sub>	6 11.4 167°75		1.1/11.1 17			<b>439676</b>	2014 <i>JV</i> <sub>4</sub>	6 11.4 177°72		1.5/11.2 18		
5 11	17 43.39	-20 8.5	2.298	3.173	10.7	22.8	5 11	17 41.32	-17 32.4	2.479	3.353	10.1	21.2
5 21	17 37.09	-19 57.2	2.229	3.177	7.6	22.6	5 21	17 35.58	-17 41.1	2.407	3.353	7.2	21.1
5 31	17 29.17	-19 45.9	2.185	3.180	4.3	22.4	5 31	17 28.36	-17 52.3	2.360	3.354	4.1	20.9
6 10	17 20.36	-19 34.8	2.169	3.183	1.2	22.2	6 10	17 20.29	-18 6.0	2.342	3.354	1.6	20.7
6 20	17 11.46	-19 24.7	2.182	3.185	3.5	22.3	6 20	17 12.08	-18 21.9	2.352	3.354	3.4	20.8
6 30	17 3.31	-19 16.6	2.222	3.187	6.9	22.6	6 30	17 4.48	-18 40.0	2.390	3.354	6.5	21.0
7 10	16 56.63	-19 11.7	2.288	3.189	10.0	22.8	7 10	16 58.18	-19 0.4	2.454	3.354	9.4	21.2
7 20	16 51.88	-19 10.7	2.376	3.190	12.7	22.9	7 20	16 53.61	-19 23.1	2.540	3.354	12.0	21.4
<b>195305</b>	2002 <i>EX</i> <sub>96</sub>	6 11.4 347°65		1.9/11.1 17			<b>443744</b>	2015 <i>LX</i> <sub>34</sub>	6 11.4 299°73		2.0/11.3 18		
5 11	17 40.49	-19 29.0	1.341	2.244	15.0	19.6	5 11	17 41.66	-16 25.1	2.085	2.965	11.5	20.5
5 21	17 35.97	-19 15.6	1.275	2.236	10.8	19.4	5 21	17 36.16	-16 39.4	2.002	2.951	8.3	20.2
5 31	17 28.93	-19 3.8	1.231	2.229	6.1	19.1	5 31	17 28.83	-16 58.3	1.943	2.937	4.9	20.0
6 10	17 20.35	-18 54.4	1.209	2.223	2.0	18.8	6 10	17 20.36	-17 21.6	1.911	2.923	2.0	19.8
6 20	17 11.50	-18 48.5	1.212	2.218	5.1	19.0	6 20	17 11.57	-17 48.8	1.907	2.909	4.0	19.9
6 30	17 3.73	-18 47.6	1.238	2.214	9.9	19.2	6 30	17 3.41	-18 19.5	1.929	2.896	7.6	20.1
7 10	16 58.18	-18 52.8	1.286	2.210	14.4	19.5	7 10	16 56.72	-18 53.1	1.977	2.882	11.1	20.3
7 20	16 55.53	-19 4.6	1.352	2.208	18.2	19.7	7 20	16 52.09	-19 29.3	2.046	2.869	14.1	20.4
<b>106353</b>	2000 <i>VX</i> <sub>3</sub>	6 11.4 211°51		0.5/11.5 18			<b>115531</b>	2003 <i>UE</i> <sub>52</sub>	6 11.4 216°03		1.6/11.8 18		
5 11	17 42.06	-24 59.4	2.491	3.365	10.0	20.5	5 11	17 45.20	-29 20.5	2.301	3.169	11.0	20.1
5 21	17 36.16	-25 0.9	2.414	3.361	7.2	20.3	5 21	17 38.52	-29 5.4	2.220	3.162	8.0	19.9
5 31	17 28.69	-24 59.6	2.362	3.357	4.0	20.1	5 31	17 30.02	-28 42.9	2.164	3.155	4.7	19.7
6 10	17 20.31	-24 54.9	2.338	3.353	0.7	19.8	6 10	17 20.49	-28 12.5	2.135	3.147	1.8	19.5
6 20	17 11.79	-24 46.9	2.343	3.349	3.0	20.0	6 20	17 10.83	-27 35.2	2.135	3.139	3.5	19.6
6 30	17 3.93	-24 36.8	2.376	3.344	6.3	20.2	6 30	17 1.99	-26 53.2	2.163	3.131	6.9	19.8
7 10	16 57.43	-24 26.0	2.435	3.339	9.3	20.4	7 10	16 54.77	-26 9.9	2.218	3.122	10.1	20.0
7 20	16 52.78	-24 16.3	2.516	3.334	11.9	20.5	7 20	16 49.68	-25 28.4	2.295	3.112	13.0	20.1
<b>249619</b>	1999 <i>TY</i> <sub>34</sub>	6 11.4 296°34		10.3/ 5.7 17			<b>181629</b>	2006 <i>XK</i> <sub>8</sub>	6 11.4 153°28		0.1/11.4 18		
5 11	17 40.15	+ 3 56.8	2.198	3.021	13.1	20.4	5 11	17 42.46	-21 57.9	2.334	3.211	10.5	19.9
5 21	17 34.95	+ 5 47.5	2.120	2.997	11.5	20.2	5 21	17 36.51	-22 16.6	2.264	3.213	7.5	19.7
5 31	17 28.11	+ 7 25.2	2.066	2.973	10.5	20.1	5 31	17 28.92	-22 35.2	2.219	3.215	4.1	19.5
6 10	17 20.25	+ 8 43.8	2.037	2.949	10.4	20.1	6 10	17 20.38	-22 52.8	2.201	3.216	0.5	19.3
6 20	17 12.12	+ 9 38.7	2.031	2.925	11.4	20.1	6 20	17 11.69	-23 8.8	2.212	3.218	3.1	19.5
6 30	17 4.53	+ 10 7.6	2.049	2.900	13.1	20.1	6 30	17 3.68	-23 23.2	2.251	3.220	6.6	19.7
7 10	16 58.23	+ 10 11.1	2.086	2.876	15.0	20.2	7 10	16 57.10	-23 36.9	2.316	3.221	9.7	19.9
7 20	16 53.77	+ 9 51.9	2.141	2.852	16.9	20.3	7 20	16 52.44	-23 50.6	2.403	3.222	12.4	20.1
<b>465864</b>	2010 <i>RJ</i> <sub>123</sub>	6 11.4 329°36		3.8/11.6 17			<b>441332</b>	2008 <i>CA</i> <sub>110</sub>	6 11.4 24°58		8.7/13.6 16		



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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>19318</b>	Somanah		6 11.4 208 <sup>o</sup> 00	0 <sup>o</sup> 8/11.7 18			<b>292965</b>	2006 VK <sub>123</sub>		6 11.4 233 <sup>o</sup> 25	1 <sup>o</sup> 3/11.6 17		
5 11	17 50.72	-28 46.9	2.023	2.888	12.4	18.5	5 11	17 42.77	-26 47.9	2.215	3.091	11.0	21.2
5 21	17 42.54	-27 53.0	1.940	2.882	9.0	18.2	5 21	17 36.87	-26 57.4	2.143	3.090	7.9	21.0
5 31	17 32.25	-26 48.5	1.882	2.875	5.1	18.0	5 31	17 29.19	-27 2.6	2.095	3.088	4.5	20.7
6 10	17 20.80	-25 34.1	1.852	2.867	1.1	17.7	6 10	17 20.48	-27 2.8	2.074	3.087	1.4	20.5
6 20	17 9.30	-24 12.9	1.853	2.858	3.7	17.9	6 20	17 11.61	-26 57.7	2.080	3.085	3.4	20.7
6 30	16 58.87	-22 49.7	1.882	2.848	7.8	18.1	6 30	17 3.51	-26 48.4	2.114	3.083	6.9	20.9
7 10	16 50.44	-21 30.0	1.938	2.838	11.6	18.3	7 10	16 56.97	-26 36.8	2.174	3.082	10.1	21.1
7 20	16 44.52	-20 18.2	2.017	2.826	14.8	18.5	7 20	16 52.52	-26 25.1	2.255	3.080	12.9	21.3
<b>58382</b>	1995 SB <sub>42</sub>		6 11.4 109 <sup>o</sup> 82	1 <sup>o</sup> 9/11.0 18			<b>270372</b>	2001 YJ <sub>160</sub>		6 11.4 246 <sup>o</sup> 28	7 <sup>o</sup> 4/11.6 18		
5 11	17 41.80	-17 18.6	2.372	3.247	10.4	20.3	5 11	17 50.72	-40 19.9	1.901	2.746	13.9	20.7
5 21	17 35.86	-17 5.8	2.313	3.260	7.5	20.1	5 21	17 43.42	-41 32.0	1.824	2.736	11.2	20.5
5 31	17 28.48	-16 55.1	2.280	3.273	4.3	19.9	5 31	17 33.20	-42 31.3	1.770	2.726	8.8	20.3
6 10	17 20.33	-16 47.1	2.275	3.285	2.0	19.8	6 10	17 21.01	-43 11.4	1.740	2.716	7.4	20.2
6 20	17 12.17	-16 42.5	2.297	3.298	3.7	19.9	6 20	17 8.24	-43 28.7	1.737	2.705	8.2	20.2
6 30	17 4.74	-16 41.9	2.348	3.310	6.7	20.2	6 30	16 56.47	-43 23.3	1.759	2.694	10.5	20.3
7 10	16 58.70	-16 45.8	2.424	3.322	9.6	20.4	7 10	16 47.06	-42 59.8	1.804	2.683	13.3	20.5
7 20	16 54.44	-16 54.3	2.522	3.333	12.1	20.6	7 20	16 40.87	-42 24.6	1.869	2.672	16.0	20.7
<b>419807</b>	2010 WU <sub>56</sub>		6 11.4 229 <sup>o</sup> 51	1 <sup>o</sup> 0/11.3 17			<b>314057</b>	2005 AN <sub>39</sub>		6 11.4 86 <sup>o</sup> 51	4 <sup>o</sup> 9/11.1 18		
5 11	17 46.50	-19 38.3	1.717	2.600	13.4	21.3	5 11	17 47.21	-11 38.0	1.465	2.345	15.3	20.6
5 21	17 39.95	-19 56.3	1.641	2.593	9.6	21.1	5 21	17 40.20	-11 20.6	1.423	2.367	11.4	20.4
5 31	17 31.04	-20 16.7	1.589	2.585	5.4	20.8	5 31	17 31.00	-11 12.9	1.404	2.390	7.4	20.3
6 10	17 20.67	-20 38.4	1.563	2.577	1.1	20.5	6 10	17 20.70	-11 16.4	1.409	2.411	5.0	20.2
6 20	17 9.95	-21 0.5	1.563	2.569	4.2	20.7	6 20	17 10.50	-11 31.3	1.440	2.433	6.6	20.3
6 30	17 0.10	-21 22.7	1.591	2.560	8.7	20.9	6 30	17 1.61	-11 57.0	1.496	2.454	10.2	20.6
7 10	16 52.20	-21 45.6	1.642	2.551	12.8	21.2	7 10	16 54.93	-12 31.9	1.575	2.475	13.7	20.8
7 20	16 46.94	-22 9.9	1.714	2.542	16.2	21.4	7 20	16 50.93	-13 14.0	1.673	2.495	16.8	21.1
<b>307046</b>	2001 YF <sub>6</sub>		6 11.4 144 <sup>o</sup> 95	2 <sup>o</sup> 2/11.2 16			<b>128737</b>	2004 RS <sub>156</sub>		6 11.4 339 <sup>o</sup> 97	0 <sup>o</sup> 5/11.3 18		
5 11	17 54.41	-25 16.5	1.881	2.746	13.2	22.2	5 11	17 39.77	-23 4.2	1.681	2.575	13.0	19.1
5 21	17 45.47	-26 33.1	1.818	2.760	9.5	22.0	5 21	17 35.17	-22 45.7	1.605	2.563	9.3	18.9
5 31	17 34.02	-27 47.9	1.781	2.772	5.5	21.8	5 31	17 28.43	-22 24.4	1.552	2.550	5.1	18.6
6 10	17 21.04	-28 56.0	1.772	2.784	2.2	21.6	6 10	17 20.40	-22 0.8	1.524	2.539	0.8	18.3
6 20	17 7.75	-29 53.4	1.794	2.795	4.5	21.8	6 20	17 12.13	-21 36.3	1.522	2.529	4.0	18.5
6 30	16 55.50	-30 38.8	1.844	2.805	8.4	22.0	6 30	17 4.74	-21 12.9	1.545	2.519	8.4	18.7
7 10	16 45.39	-31 13.7	1.920	2.814	12.0	22.3	7 10	16 59.19	-20 53.2	1.591	2.510	12.4	18.9
7 20	16 38.12	-31 40.9	2.018	2.822	15.0	22.5	7 20	16 56.09	-20 38.9	1.657	2.503	15.9	19.2
<b>296518</b>	2009 LK <sub>5</sub>		6 11.4 319 <sup>o</sup> 08	5 <sup>o</sup> 7/11.3 17			<b>59674</b>	1999 JY <sub>100</sub>		6 11.4 284 <sup>o</sup> 99	8 <sup>o</sup> 2/10.5 18		
5 11	17 43.94	-9 39.6	1.360	2.246	16.0	20.2	5 11	17 42.40	-2 42.3	1.732	2.590	14.5	18.6
5 21	17 38.43	-9 41.3	1.292	2.238	12.2	19.9	5 21	17 36.89	-2 10.3	1.658	2.577	11.8	18.4
5 31	17 30.32	-9 57.0	1.244	2.230	8.2	19.7	5 31	17 29.34	-1 53.8	1.606	2.564	9.4	18.2
6 10	17 20.59	-10 28.3	1.220	2.222	5.7	19.5	6 10	17 20.52	-1 56.4	1.578	2.551	8.2	18.1
6 20	17 10.47	-11 14.8	1.221	2.215	7.3	19.6	6 20	17 11.40	-2 20.0	1.575	2.539	9.2	18.1
6 30	17 1.35	-12 14.6	1.245	2.208	11.3	19.8	6 30	17 3.05	-3 3.9	1.595	2.526	11.7	18.2
7 10	16 54.41	-13 24.5	1.291	2.202	15.4	20.0	7 10	16 56.38	-4 5.4	1.638	2.513	14.7	18.4
7 20	16 50.40	-14 40.8	1.356	2.196	19.1	20.2	7 20	16 52.02	-5 20.4	1.701	2.501	17.5	18.6
<b>366434</b>	2001 WA <sub>49</sub>		6 11.4 263 <sup>o</sup> 87	1 <sup>o</sup> 9/11.0 18			<b>470815</b>	2008 VM <sub>67</sub>		6 11.4 264 <sup>o</sup> 94	2 <sup>o</sup> 6/11.0 16		
5 11	17 44.17	-19 3.4	1.770	2.654	12.9	21.2	5 11	17 42.87	-16 22.9	1.920	2.801	12.2	21.9
5 21	17 38.21	-18 43.9	1.688	2.640	9.4	21.0	5 21	17 37.12	-16 10.9	1.842	2.791	8.9	21.7
5 31	17 30.07	-18 24.9	1.631	2.626	5.4	20.7	5 31	17 29.42	-16 2.4	1.787	2.780	5.3	21.4
6 10	17 20.57	-18 7.4	1.599	2.611	2.0	20.4	6 10	17 20.53	-15 58.2	1.759	2.769	2.6	21.2
6 20	17 10.74	-17 52.6	1.594	2.597	4.6	20.6	6 20	17 11.38	-15 58.9	1.757	2.758	4.6	21.3
6 30	17 1.75	-17 42.1	1.615	2.582	8.8	20.8	6 30	17 2.97	-16 5.4	1.782	2.746	8.4	21.5
7 10	16 54.57	-17 37.5	1.659	2.567	12.8	21.0	7 10	16 56.19	-16 18.0	1.831	2.735	11.9	21.7
7 20	16 49.86	-17 39.5	1.724	2.551	16.2	21.2	7 20	16 51.64	-16 36.6	1.902	2.724	15.1	21.9
<b>302315</b>	2002 AN <sub>45</sub>		6 11.4 201 <sup>o</sup> 73	2 <sup>o</sup> 7/10.9 18			<b>314362</b>	2005 UN <sub>4</sub>		6 11.4 191 <sup>o</sup> 91	8 <sup>o</sup> 1/ 8.8 18		
5 11	17 40.94	-13 48.9	2.741	3.608	9.5	21.7	5 11	17 39.04	+ 8 51.5	3.194	3.973	10.4	21.6
5 21	17 35.20	-13 39.0	2.665	3.604	7.0	21.5	5 21	17 33.69	+ 9 38.3	3.132	3.971	9.2	21.5
5 31	17 28.14	-13 33.1	2.613	3.600	4.4	21.4	5 31	17 27.26	+10 11.1	3.093	3.968	8.4	21.4
6 10	17 20.32	-13 31.8	2.590	3.595	2.7	21.2	6 10	17 20.25	+10 27.3	3.079	3.965	8.1	21.4
6 20	17 12.36	-13 35.7	2.596	3.590	4.0	21.3	6 20	17 13.16	+10 25.8	3.089	3.962	8.5	21.4
6 30	17 4.95	-13 45.1	2.630	3.585	6.5	21.5	6 30	17 6.53	+10 6.5	3.124	3.958	9.5	21.5
7 10	16 58.66	-13 59.8	2.690	3.579	9.1	21.6	7 10	17 0.83	+ 9 31.0	3.181	3.953	10.7	21.6
7 20	16 53.93	-14 19.7	2.773	3.572	11.4	21.8	7 20	16 56.42	+ 8 42.0	3.258	3.948	11.9	21.7
<b>496950</b>	2001 YR <sub>24</sub>		6 11.4 188 <sup>o</sup> 05	0 <sup>o</sup> 3/11.5 17			<b>398532</b>	2011 UL <sub>306</sub>		6 11.4 174 <sup>o</sup> 96	1 <sup>o</sup> 0/11.5 18		
5 11	17 46.22	-25 29.8	2.351	3.220	10.7	22.9	5 11	17 42.90	-25 58.7	2.686	3.555	9.6	21.7
5 21	17 39.12	-25 4.6	2.274	3.219	7.7	22.7	5 21	17 36.71	-26 16.8	2.613	3.557	6.9	21.6
5 31	17 30.33	-24 34.5	2.224	3.218	4.2	22.5	5 31	17 29.03	-26 32.0	2.566	3.559	3.9	21.4
6 10	17 20.58	-23 59.7	2.201	3.216	0.6	22.2	6 10	17 20.48	-26 43.4	2.546	3.560	1.2	21.2
6 20	17 10.77	-23 21.6	2.208	3.213	3.2	22.4	6 20	17 11.79	-26 50.3	2.556	3.561	2.9	21.3
6 30	17 1.77	-22 42.5	2.243	3.209	6.8	22.6	6 30	17 3.72	-26 53.4	2.595	3.561	6.0	21.5
7 10	16 54.34	-22 5.0	2.305	3.205	10.0	22.8	7 10	16 56.95	-26 53.8	2.660	3.561	8.8	21.7
7 20	16 48.95	-21 31.7	2.390	3.200	12.7	23.0	7 20	16 51.94	-26 53.1	2.748	3.561	11.2	21.8

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>34900</b>	2698 <i>P-L</i>		6 11.4 339°17	6°8/11.9 18			<b>281824</b>	2009 <i>YN</i> <sub>5</sub>		6 11.4 119°20	3°9/11.4 17		
5 11	17 48.12	-35 21.8	1.229	2.114	17.4	18.8	5 11	17 44.83	-11 1.2	1.964	2.832	12.5	20.5
5 21	17 42.19	-36 16.6	1.167	2.110	13.4	18.5	5 21	17 38.32	-11 13.5	1.903	2.842	9.3	20.3
5 31	17 32.71	-36 57.7	1.124	2.106	9.4	18.3	5 31	17 29.99	-11 34.6	1.867	2.852	6.0	20.1
6 10	17 20.97	-37 18.4	1.104	2.103	6.9	18.1	6 10	17 20.65	-12 4.6	1.858	2.861	3.9	20.0
6 20	17 8.78	-37 15.4	1.107	2.100	8.1	18.2	6 20	17 11.19	-12 42.8	1.876	2.870	5.2	20.1
6 30	16 58.14	-36 50.8	1.132	2.097	11.9	18.4	6 30	17 2.59	-13 27.9	1.921	2.878	8.3	20.3
7 10	16 50.63	-36 11.5	1.178	2.095	16.0	18.6	7 10	16 55.63	-14 18.3	1.991	2.887	11.5	20.5
7 20	16 47.06	-35 25.2	1.241	2.093	19.8	18.9	7 20	16 50.82	-15 12.3	2.083	2.895	14.3	20.7
<b>501769</b>	2014 <i>UP</i> <sub>200</sub>		6 11.4 199°83	0°2/11.4 17			<b>184518</b>	2005 <i>QT</i> <sub>9</sub>		6 11.4 346°81	3°0/12.0 18		
5 11	17 47.68	-23 25.5	1.887	2.764	12.6	22.6	5 11	17 44.39	-30 34.1	1.307	2.201	15.9	19.6
5 21	17 40.58	-23 15.1	1.811	2.760	9.1	22.4	5 21	17 39.04	-30 28.9	1.242	2.196	11.8	19.3
5 31	17 31.32	-23 1.5	1.760	2.756	5.0	22.1	5 31	17 30.77	-30 12.2	1.197	2.191	7.1	19.0
6 10	17 20.78	-22 44.6	1.736	2.751	0.6	21.8	6 10	17 20.76	-29 42.4	1.176	2.187	3.2	18.8
6 20	17 10.04	-22 25.1	1.739	2.745	3.8	22.1	6 20	17 10.52	-29 0.5	1.179	2.184	5.3	18.9
6 30	17 0.23	-22 4.8	1.770	2.739	8.1	22.3	6 30	17 1.67	-28 10.5	1.205	2.181	10.0	19.1
7 10	16 52.32	-21 46.2	1.826	2.731	11.9	22.5	7 10	16 55.44	-27 18.4	1.253	2.180	14.5	19.4
7 20	16 46.90	-21 31.6	1.903	2.723	15.1	22.7	7 20	16 52.49	-26 29.6	1.320	2.178	18.4	19.6
<b>311544</b>	2005 <i>YE</i> <sub>231</sub>		6 11.4 234°59	0°4/11.5 18			<b>33447</b>	1999 <i>FM</i> <sub>24</sub>		6 11.4 38°18	3°6/11.9 18		
5 11	17 41.81	-24 0.8	2.650	3.522	9.6	21.6	5 11	17 46.90	-30 39.8	1.155	2.052	17.3	16.9
5 21	17 36.00	-24 11.5	2.566	3.513	6.8	21.4	5 21	17 40.92	-30 49.6	1.106	2.061	12.8	16.6
5 31	17 28.67	-24 20.6	2.509	3.504	3.8	21.2	5 31	17 31.78	-30 47.5	1.077	2.070	7.8	16.4
6 10	17 20.45	-24 27.3	2.480	3.495	0.6	20.9	6 10	17 20.87	-30 31.2	1.070	2.080	3.7	16.2
6 20	17 12.02	-24 31.3	2.479	3.485	2.9	21.1	6 20	17 9.95	-30 1.2	1.086	2.091	5.8	16.3
6 30	17 4.16	-24 33.2	2.507	3.475	6.1	21.3	6 30	17 0.74	-29 21.7	1.126	2.102	10.6	16.6
7 10	16 57.55	-24 34.0	2.561	3.465	9.0	21.4	7 10	16 54.53	-28 38.8	1.186	2.113	15.1	16.9
7 20	16 52.67	-24 35.0	2.639	3.454	11.5	21.6	7 20	16 51.86	-27 58.1	1.264	2.125	19.0	17.2
<b>138192</b>	2000 <i>EA</i> <sub>120</sub>		6 11.4 105°70	2°8/11.6 18			<b>369268</b>	2009 <i>OA</i> <sub>23</sub>		6 11.4 297°71	4°3/11.9 18		
5 11	17 48.01	-28 36.4	1.617	2.497	14.1	19.2	5 11	17 46.70	-32 33.6	1.472	2.354	15.2	20.6
5 21	17 41.13	-29 12.5	1.558	2.506	10.3	19.0	5 21	17 40.90	-32 50.5	1.382	2.327	11.5	20.3
5 31	17 31.72	-29 42.4	1.522	2.514	6.2	18.8	5 31	17 31.99	-32 56.4	1.313	2.301	7.5	20.0
6 10	17 20.83	-30 3.0	1.512	2.522	2.9	18.6	6 10	17 20.94	-32 47.4	1.267	2.274	4.4	19.8
6 20	17 9.78	-30 12.8	1.527	2.530	4.8	18.7	6 20	17 9.21	-32 21.7	1.247	2.247	6.1	19.8
6 30	16 59.93	-30 12.6	1.569	2.538	8.9	19.0	6 30	16 58.47	-31 41.4	1.250	2.221	10.4	20.0
7 10	16 52.38	-30 5.9	1.634	2.545	12.7	19.2	7 10	16 50.22	-30 52.3	1.276	2.194	15.0	20.2
7 20	16 47.75	-29 56.1	1.720	2.553	16.0	19.5	7 20	16 45.40	-30 0.7	1.321	2.168	19.1	20.4
<b>184243</b>	2004 <i>RQ</i> <sub>253</sub>		6 11.4 318°11	0°3/11.4 18			<b>128476</b>	2004 <i>PE</i> <sub>3</sub>		6 11.4 338°91	3°6/11.1 18		
5 11	17 41.49	-23 9.9	1.941	2.826	11.9	19.5	5 11	17 40.86	-12 17.7	2.030	2.906	11.9	19.6
5 21	17 36.28	-23 27.4	1.858	2.811	8.6	19.3	5 21	17 35.56	-12 17.7	1.959	2.902	8.8	19.4
5 31	17 29.04	-23 44.2	1.798	2.795	4.7	19.0	5 31	17 28.53	-12 24.9	1.912	2.899	5.7	19.2
6 10	17 20.51	-23 59.4	1.765	2.780	0.7	18.7	6 10	17 20.47	-12 40.2	1.891	2.895	3.7	19.0
6 20	17 11.65	-24 12.0	1.758	2.765	3.6	18.9	6 20	17 12.23	-13 3.5	1.897	2.892	5.0	19.1
6 30	17 3.48	-24 22.5	1.778	2.750	7.7	19.1	6 30	17 4.70	-13 34.4	1.930	2.889	8.2	19.3
7 10	16 56.96	-24 31.8	1.822	2.736	11.4	19.3	7 10	16 58.64	-14 12.0	1.987	2.887	11.3	19.5
7 20	16 52.71	-24 41.3	1.888	2.723	14.7	19.5	7 20	16 54.59	-14 54.9	2.065	2.885	14.1	19.7
<b>463214</b>	2012 <i>DD</i> <sub>18</sub>		6 11.4 34°73	2°5/11.1 17			<b>280324</b>	2003 <i>SQ</i> <sub>6</sub>		6 11.4 290°92	7°1/ 9.7 18		
5 11	17 43.72	-18 32.1	1.136	2.042	16.9	20.8	5 11	17 41.37	- 7 0.4	1.786	2.656	13.5	20.3
5 21	17 38.35	-18 17.5	1.093	2.054	12.1	20.6	5 21	17 36.12	- 6 1.4	1.712	2.643	10.7	20.1
5 31	17 30.24	-18 6.2	1.070	2.068	6.9	20.3	5 31	17 28.91	- 5 12.0	1.660	2.630	8.2	19.9
6 10	17 20.65	-17 59.3	1.069	2.082	2.6	20.1	6 10	17 20.53	- 4 36.4	1.633	2.616	7.1	19.8
6 20	17 11.08	-17 57.7	1.091	2.097	5.6	20.3	6 20	17 11.90	- 4 17.6	1.632	2.603	8.3	19.8
6 30	17 3.02	-18 2.5	1.136	2.112	10.6	20.7	6 30	17 4.02	- 4 17.3	1.655	2.590	11.1	19.9
7 10	16 57.57	-18 14.3	1.203	2.128	15.1	21.0	7 10	16 57.78	- 4 34.5	1.700	2.577	14.1	20.1
7 20	16 55.26	-18 32.5	1.287	2.145	18.8	21.3	7 20	16 53.76	- 5 7.1	1.764	2.564	16.9	20.3
<b>230032</b>	2000 <i>QP</i> <sub>3</sub>		6 11.4 244°51	7°5/12.6 18			<b>506220</b>	2016 <i>JO</i> <sub>30</sub>		6 11.4 350°68	2°0/11.6 17		
5 11	17 50.54	-42 45.5	1.946	2.783	14.0	20.6	5 11	17 40.22	-15 57.5	1.022	1.936	17.6	19.6
5 21	17 43.17	-43 28.2	1.868	2.773	11.4	20.4	5 21	17 36.51	-16 49.5	0.960	1.925	12.8	19.3
5 31	17 32.98	-43 54.6	1.812	2.762	9.0	20.2	5 31	17 29.64	-17 54.9	0.916	1.916	7.4	19.0
6 10	17 21.01	-43 59.6	1.780	2.752	7.6	20.1	6 10	17 20.66	-19 11.2	0.894	1.908	2.2	18.6
6 20	17 8.68	-43 41.1	1.773	2.740	8.1	20.1	6 20	17 11.09	-20 33.9	0.894	1.902	5.6	18.8
6 30	16 57.50	-43 0.7	1.792	2.729	10.2	20.2	6 30	17 2.73	-21 58.0	0.916	1.898	11.4	19.1
7 10	16 48.74	-42 4.1	1.834	2.717	13.0	20.3	7 10	16 57.09	-23 19.7	0.958	1.896	16.7	19.4
7 20	16 43.14	-40 58.6	1.897	2.705	15.6	20.5	7 20	16 55.07	-24 36.9	1.016	1.896	21.1	19.7
<b>412459</b>	2014 <i>GE</i> <sub>48</sub>		6 11.4 39°29	7°8/12.4 17			<b>433935</b>	2015 <i>CJ</i> <sub>56</sub>		6 11.4 337°45	1°5/11.2 17		
5 11	17 43.88	+ 1 4.2	1.944	2.779	14.0	19.9	5 11	17 42.23	-19 59.2	1.494	2.390	14.2	20.4
5 21	17 37.59	+ 0 43.5	1.888	2.790	11.5	19.7	5 21	17 37.10	-19 50.6	1.425	2.383	10.2	20.1
5 31	17 29.56	+ 0 3.6	1.854	2.800	9.1	19.6	5 31	17 29.59	-19 42.9	1.378	2.376	5.7	19.8
6 10	17 20.58	- 0 56.4	1.845	2.811	7.8	19.5	6 10	17 20.63	-19 36.7	1.356	2.370	1.6	19.5
6 20	17 11.53	- 2 14.9	1.862	2.822	8.3	19.6	6 20	17 11.39	-19 32.5	1.358	2.364	4.6	19.7
6 30	17 3.32	- 3 48.5	1.906	2.834	10.2	19.7	6 30	17 3.16	-19 31.7	1.386	2.359	9.3	20.0
7 10	16 56.71	- 5 32.5	1.974	2.846	12.7	19.9	7 10	16 57.01	-19 35.5	1.435	2.354	13.6	20.2
7 20	16 52.20	- 7 22.0	2.065	2.858	15.0	20.1	7 20	16 53.59	-19 44.6	1.504	2.351	17.2	20.5
<b>410181</b>	2007 <i>RL</i> <sub>51</sub>		6 11.4 193°35	2°7/10.8 17									

EPHEMERIDES

6 11.4

6 11.4

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>203735</b>	2002 <i>QH</i> <sub>65</sub>		6 11.4 206°54	0°0/11.4 17			<b>290640</b>	2005 <i>UY</i> <sub>258</sub>		6 11.4 339°12	1°2/11.5 18		
5 11	17 43.59	-23 18.5	2.084	2.963	11.5	21.4	5 11	17 42.06	-25 18.2	1.918	2.802	12.1	20.8
5 21	17 37.53	-23 16.8	2.012	2.961	8.2	21.1	5 21	17 36.68	-25 40.5	1.844	2.796	8.7	20.6
5 31	17 29.61	-23 12.9	1.963	2.959	4.5	20.9	5 31	17 29.26	-26 0.4	1.795	2.790	4.9	20.3
6 10	17 20.63	-23 6.7	1.942	2.957	0.6	20.6	6 10	17 20.61	-26 16.2	1.771	2.785	1.3	20.0
6 20	17 11.47	-22 58.4	1.948	2.954	3.4	20.8	6 20	17 11.70	-26 27.3	1.774	2.780	3.7	20.2
6 30	17 3.12	-22 49.2	1.982	2.951	7.2	21.1	6 30	17 3.60	-26 33.9	1.804	2.776	7.7	20.4
7 10	16 56.39	-22 40.7	2.040	2.948	10.7	21.3	7 10	16 57.23	-26 37.6	1.858	2.772	11.3	20.7
7 20	16 51.82	-22 34.6	2.121	2.945	13.7	21.5	7 20	16 53.18	-26 40.2	1.933	2.768	14.4	20.9
<b>177424</b>	2004 <i>CC</i> <sub>28</sub>		6 11.4 16°78	0°1/11.4 17			<b>300721</b>	2007 <i>VW</i> <sub>124</sub>		6 11.4 61°59	0°1/11.4 17		
5 11	17 43.42	-22 42.3	1.193	2.098	16.3	19.7	5 11	17 43.02	-23 58.3	1.935	2.818	12.1	20.9
5 21	17 38.31	-22 52.9	1.140	2.102	11.7	19.4	5 21	17 37.14	-23 52.1	1.874	2.826	8.6	20.7
5 31	17 30.35	-23 2.6	1.107	2.106	6.4	19.1	5 31	17 29.39	-23 43.0	1.838	2.834	4.7	20.5
6 10	17 20.73	-23 10.2	1.097	2.112	0.8	18.8	6 10	17 20.61	-23 31.1	1.828	2.843	0.6	20.2
6 20	17 10.94	-23 15.3	1.110	2.118	4.8	19.1	6 20	17 11.79	-23 16.8	1.845	2.851	3.5	20.4
6 30	17 2.54	-23 18.9	1.147	2.125	10.1	19.4	6 30	17 3.89	-23 1.9	1.888	2.860	7.4	20.7
7 10	16 56.75	-23 23.2	1.204	2.133	14.8	19.7	7 10	16 57.74	-22 48.2	1.957	2.868	10.9	20.9
7 20	16 54.18	-23 29.8	1.280	2.142	18.7	19.9	7 20	16 53.83	-22 37.5	2.046	2.877	13.9	21.1
<b>62951</b>	2000 <i>VE</i> <sub>34</sub>		6 11.4 300°83	3°4/10.6 18			<b>246659</b>	2008 <i>YW</i> <sub>49</sub>		6 11.4 33°73	0°2/11.4 17		
5 11	17 42.52	-17 11.8	1.614	2.504	13.6	18.8	5 11	17 42.92	-22 57.3	1.657	2.547	13.3	20.4
5 21	17 37.21	-16 24.6	1.533	2.487	10.0	18.6	5 21	17 37.32	-23 8.9	1.602	2.557	9.5	20.2
5 31	17 29.63	-15 38.0	1.476	2.469	6.1	18.3	5 31	17 29.57	-23 19.2	1.569	2.566	5.2	20.0
6 10	17 20.65	-14 54.7	1.443	2.452	3.4	18.1	6 10	17 20.64	-23 27.4	1.562	2.577	0.7	19.6
6 20	17 11.34	-14 17.9	1.436	2.436	5.7	18.2	6 20	17 11.63	-23 33.0	1.581	2.588	3.9	19.9
6 30	17 2.89	-13 50.3	1.455	2.419	9.9	18.4	6 30	17 3.67	-23 37.1	1.625	2.599	8.2	20.2
7 10	16 56.33	-13 33.9	1.496	2.403	13.9	18.6	7 10	16 57.68	-23 40.9	1.694	2.611	12.0	20.5
7 20	16 52.34	-13 29.3	1.556	2.387	17.5	18.8	7 20	16 54.21	-23 46.0	1.782	2.623	15.2	20.7
<b>256822</b>	2008 <i>CL</i> <sub>136</sub>		6 11.4 195°84	0°9/11.3 17			<b>148447</b>	2000 <i>YH</i>		6 11.4 127°93	8°2/14.7 18		
5 11	17 46.68	-21 18.4	1.834	2.713	12.8	21.9	5 11	17 52.34	-51 51.5	2.587	3.365	12.5	19.8
5 21	17 39.90	-21 7.5	1.761	2.711	9.2	21.7	5 21	17 43.83	-52 9.5	2.522	3.372	10.8	19.7
5 31	17 30.98	-20 55.4	1.713	2.709	5.1	21.5	5 31	17 33.03	-52 8.0	2.479	3.379	9.3	19.6
6 10	17 20.81	-20 42.5	1.691	2.706	1.1	21.2	6 10	17 21.06	-51 43.6	2.460	3.386	8.3	19.6
6 20	17 10.44	-20 29.2	1.697	2.702	4.0	21.4	6 20	17 9.21	-50 55.9	2.467	3.392	8.3	19.6
6 30	17 1.01	-20 17.3	1.729	2.698	8.2	21.6	6 30	16 58.73	-49 47.8	2.499	3.399	9.3	19.7
7 10	16 53.46	-20 8.6	1.787	2.693	12.1	21.8	7 10	16 50.57	-48 25.0	2.556	3.405	10.9	19.8
7 20	16 48.38	-20 4.5	1.865	2.687	15.3	22.0	7 20	16 45.20	-46 53.9	2.635	3.411	12.6	19.9
<b>65892</b>	1998 <i>BH</i> <sub>30</sub>		6 11.4 55°93	1°0/11.6 18			<b>462606</b>	2009 <i>HG</i> <sub>73</sub>		6 11.4 3°83	7°1/9.8 17		
5 11	17 45.26	-26 16.1	1.540	2.429	14.2	18.8	5 11	17 39.26	-13 25.9	1.008	1.922	17.8	19.7
5 21	17 39.06	-26 9.5	1.487	2.441	10.2	18.6	5 21	17 35.45	-11 57.8	0.959	1.920	13.4	19.4
5 31	17 30.53	-25 57.1	1.456	2.453	5.7	18.3	5 31	17 28.82	-10 36.6	0.929	1.920	9.2	19.2
6 10	17 20.74	-25 38.7	1.451	2.465	1.3	18.0	6 10	17 20.58	-9 29.7	0.920	1.921	7.1	19.1
6 20	17 10.96	-25 15.2	1.471	2.477	4.2	18.3	6 20	17 12.21	-8 43.2	0.932	1.924	9.4	19.2
6 30	17 2.44	-24 49.1	1.516	2.490	8.6	18.6	6 30	17 5.26	-8 20.7	0.964	1.928	13.6	19.4
7 10	16 56.16	-24 23.7	1.585	2.503	12.6	18.8	7 10	17 0.88	-8 21.7	1.015	1.934	17.8	19.7
7 20	16 52.63	-24 2.0	1.674	2.516	15.9	19.1	7 20	16 59.68	-8 42.8	1.082	1.941	21.6	20.0
<b>155100</b>	2005 <i>SX</i> <sub>214</sub>		6 11.4 164°31	2°2/10.7 18			<b>237922</b>	2002 <i>PS</i> <sub>174</sub>		6 11.4 125°93	1°0/11.5 18		
5 11	17 40.35	-15 57.2	3.107	3.973	8.5	21.1	5 11	17 44.39	-25 8.1	1.923	2.803	12.2	20.4
5 21	17 34.64	-15 26.2	3.037	3.978	6.1	21.0	5 21	17 38.28	-25 26.7	1.854	2.804	8.8	20.2
5 31	17 27.81	-14 56.9	2.995	3.983	3.7	20.8	5 31	17 30.12	-25 42.5	1.810	2.805	4.9	19.9
6 10	17 20.40	-14 30.5	2.981	3.988	2.2	20.7	6 10	17 20.76	-25 54.1	1.792	2.806	1.2	19.7
6 20	17 12.95	-14 7.9	2.997	3.992	3.4	20.8	6 20	17 11.20	-26 0.8	1.801	2.807	3.7	19.9
6 30	17 6.04	-13 50.2	3.042	3.995	5.8	21.0	6 30	17 2.53	-26 3.3	1.837	2.808	7.6	20.1
7 10	17 0.16	-13 38.2	3.113	3.998	8.1	21.1	7 10	16 55.65	-26 3.3	1.898	2.809	11.2	20.3
7 20	16 55.66	-13 32.0	3.208	4.001	10.2	21.3	7 20	16 51.13	-26 2.9	1.980	2.809	14.3	20.5
<b>268505</b>	2005 <i>YY</i> <sub>119</sub>		6 11.4 342°89	1°8/11.2 17			<b>93921</b>	2000 <i>WQ</i> <sub>160</sub>		6 11.4 333°04	2°6/10.6 18		
5 11	17 42.64	-19 9.7	1.488	2.383	14.3	20.1	5 11	17 42.43	-21 19.3	1.410	2.308	14.7	18.5
5 21	17 37.38	-19 3.5	1.421	2.378	10.3	19.8	5 21	17 37.32	-20 6.1	1.338	2.297	10.6	18.2
5 31	17 29.74	-18 59.2	1.376	2.373	5.8	19.5	5 31	17 29.74	-18 47.6	1.289	2.286	6.1	17.9
6 10	17 20.66	-18 57.4	1.356	2.369	1.9	19.3	6 10	17 20.72	-17 27.6	1.264	2.276	2.6	17.7
6 20	17 11.33	-18 58.5	1.360	2.366	4.7	19.4	6 20	17 11.49	-16 11.3	1.264	2.267	5.6	17.8
6 30	17 3.02	-19 3.5	1.390	2.363	9.3	19.7	6 30	17 3.38	-15 4.2	1.289	2.259	10.3	18.1
7 10	16 56.80	-19 13.2	1.442	2.360	13.6	19.9	7 10	16 57.46	-14 10.7	1.336	2.251	14.7	18.3
7 20	16 53.31	-19 28.1	1.513	2.358	17.2	20.2	7 20	16 54.35	-13 32.7	1.402	2.244	18.5	18.5
<b>313842</b>	2004 <i>DC</i> <sub>25</sub>		6 11.4 28°03	27°5/9.6 18			<b>6679</b>	Gurzhij		6 11.4 158°94	3°0/11.6 18		
5 11	17 42.46	+24 44.5	0.942	1.723	29.1	20.0	5 11	17 49.46	-28 17.1	1.365	2.252	15.8	17.1
5 21	17 37.80	+27 15.9	0.925	1.727	28.3	20.0	5 21	17 42.65	-28 53.1	1.303	2.254	11.6	16.8
5 31	17 30.08	+28 50.2	0.918	1.733	27.7	19.9	5 31	17 32.81	-29 22.9	1.262	2.256	6.9	16.6
6 10	17 20.70	+29 17.8	0.922	1.739	27.5	20.0	6 10	17 21.11	-29 42.5	1.246	2.257	3.1	16.4
6 20	17 11.29	+28 35.9	0.935	1.746	27.7	20.0	6 20	17 9.11	-29 50.0	1.254	2.258	5.4	16.5
6 30	17 3.52	+26 49.2	0.958	1.753	28.3	20.1	6 30	16 58.46	-29 46.5	1.288	2.259	10.1	16.8
7 10	16 58.61	+24 9.2	0.992	1.762	29.1	20.2	7 10	16 50.49	-29 36.0	1.343	2.260	14.5	17.0
7 20	16 57.13	+20 50.6	1.035	1.771	30.0	20.3	7 20	16 45.94	-29 23.0	1.417	2.261	18.2	17.3
<b>325766</b>	2010 <i>JX</i> <sub>140</sub>		6 11.4 287°19	2°0/10.9 18			<b>155699</b>	2000 <i>QR</i>					

EPHEMERIDES

6 11.4

6 11.4

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>431035</b>	2006 <i>AC</i> <sub>81</sub>	6 11.4 131°02'		4°1'/12.5 17			<b>259505</b>	2003 <i>SB</i> <sub>300</sub>	6 11.4 219°06'		2°7'/11.9 17		
5 11	17 48.88	-35 56.1	2.165	3.018	12.1	21.0	5 11	17 49.39	-30 39.2	1.913	2.781	12.9	22.0
5 21	17 41.26	-36 2.4	2.104	3.031	9.2	20.8	5 21	17 42.05	-30 47.9	1.831	2.771	9.5	21.8
5 31	17 31.63	-35 56.9	2.067	3.044	6.2	20.7	5 31	17 32.32	-30 48.2	1.773	2.762	5.8	21.5
6 10	17 20.94	-35 37.6	2.057	3.056	4.2	20.6	6 10	17 21.12	-30 37.8	1.742	2.751	2.9	21.3
6 20	17 10.29	-35 4.9	2.075	3.067	5.0	20.6	6 20	17 9.61	-30 16.4	1.738	2.740	4.5	21.4
6 30	17 0.75	-34 21.4	2.120	3.078	7.6	20.8	6 30	16 59.07	-29 45.8	1.761	2.727	8.3	21.6
7 10	16 53.19	-33 31.7	2.191	3.089	10.5	21.0	7 10	16 50.56	-29 10.2	1.810	2.714	12.0	21.8
7 20	16 48.08	-32 40.3	2.284	3.099	13.1	21.2	7 20	16 44.74	-28 33.9	1.879	2.701	15.3	22.0
<b>462797</b>	2010 <i>PY</i> <sub>21</sub>	6 11.4 339°99'		6°8'/10.3 17			<b>55848</b>	1996 <i>SF</i> <sub>6</sub>	6 11.4 347°36'		7°2'/9.9 18		
5 11	17 36.61	-13 14.8	0.942	1.861	18.1	20.0	5 11	17 39.45	-10 44.4	1.245	2.144	16.2	17.6
5 21	17 34.01	-12 19.8	0.876	1.841	13.8	19.6	5 21	17 35.35	-9 38.3	1.183	2.135	12.5	17.4
5 31	17 28.30	-11 32.5	0.829	1.823	9.3	19.3	5 31	17 28.75	-8 41.2	1.142	2.127	8.9	17.1
6 10	17 20.57	-10 59.2	0.801	1.806	6.8	19.1	6 10	17 20.66	-7 58.9	1.123	2.120	7.2	17.0
6 20	17 12.30	-10 44.8	0.793	1.792	9.1	19.2	6 20	17 12.32	-7 35.5	1.127	2.114	8.9	17.1
6 30	17 5.21	-10 52.0	0.805	1.779	14.0	19.4	6 30	17 5.06	-7 33.1	1.153	2.110	12.6	17.3
7 10	17 0.80	-11 20.1	0.834	1.768	19.0	19.6	7 10	16 59.99	-7 50.8	1.198	2.106	16.5	17.5
7 20	16 59.93	-12 5.8	0.878	1.760	23.4	19.8	7 20	16 57.77	-8 25.5	1.261	2.104	20.0	17.7
<b>153026</b>	2000 <i>NH</i> <sub>25</sub>	6 11.4 312°77'		2°4'/11.3 18			<b>73140</b>	2002 <i>GH</i> <sub>87</sub>	6 11.4 286°12'		4°3'/10.9 17		
5 11	17 42.79	-17 16.9	1.418	2.314	14.8	18.9	5 11	17 44.58	-13 56.6	1.417	2.307	15.2	19.5
5 21	17 37.86	-17 21.1	1.334	2.291	10.9	18.6	5 21	17 38.91	-13 36.3	1.347	2.298	11.3	19.3
5 31	17 30.25	-17 30.7	1.271	2.268	6.3	18.3	5 31	17 30.71	-13 22.9	1.298	2.289	7.1	19.0
6 10	17 20.83	-17 46.0	1.232	2.245	2.5	18.0	6 10	17 20.93	-13 18.6	1.274	2.281	4.4	18.8
6 20	17 10.79	-18 6.7	1.218	2.223	5.3	18.1	6 20	17 10.80	-13 24.6	1.274	2.272	6.4	18.9
6 30	17 1.57	-18 32.8	1.228	2.201	10.2	18.3	6 30	17 1.67	-13 41.4	1.298	2.264	10.7	19.1
7 10	16 54.45	-19 4.2	1.260	2.180	14.9	18.5	7 10	16 54.71	-14 8.5	1.345	2.255	14.9	19.3
7 20	16 50.29	-19 40.5	1.310	2.160	19.1	18.7	7 20	16 50.60	-14 44.5	1.410	2.247	18.6	19.6
<b>107890</b>	2001 <i>FC</i> <sub>93</sub>	6 11.4 160°69'		2°9'/11.2 17			<b>511412</b>	2014 <i>HM</i> <sub>127</sub>	6 11.4 56°18'		9°2'/7.5 18		
5 11	17 46.24	-15 33.0	1.650	2.531	13.9	19.9	5 11	17 41.23	+ 0 17.1	2.105	2.944	13.0	21.0
5 21	17 39.71	-15 33.1	1.586	2.535	10.1	19.7	5 21	17 35.63	+ 2 7.0	2.056	2.951	11.0	20.9
5 31	17 30.95	-15 38.6	1.545	2.537	6.0	19.4	5 31	17 28.52	+ 3 43.2	2.032	2.959	9.6	20.8
6 10	17 20.89	-15 49.9	1.530	2.540	2.9	19.2	6 10	17 20.62	+ 5 0.1	2.033	2.967	9.3	20.8
6 20	17 10.65	-16 7.0	1.541	2.542	5.1	19.4	6 20	17 12.70	+ 5 54.2	2.058	2.975	10.2	20.9
6 30	17 1.40	-16 29.5	1.578	2.544	9.1	19.6	6 30	17 5.54	+ 6 24.0	2.108	2.983	11.8	21.0
7 10	16 54.13	-16 57.3	1.639	2.546	13.0	19.9	7 10	16 59.82	+ 6 30.9	2.179	2.992	13.7	21.2
7 20	16 49.44	-17 29.8	1.721	2.547	16.3	20.1	7 20	16 55.95	+ 6 18.0	2.268	3.000	15.5	21.3
<b>306699</b>	2000 <i>VG</i> <sub>26</sub>	6 11.4 233°37'		0°6'/11.5 18			<b>434249</b>	2003 <i>UT</i> <sub>53</sub>	6 11.4 312°33'		2°4'/10.7 17		
5 11	17 42.56	-25 6.4	2.731	3.601	9.4	21.6	5 11	17 42.94	-21 24.0	1.537	2.430	14.0	20.0
5 21	17 36.57	-25 13.8	2.644	3.589	6.8	21.4	5 21	17 37.78	-20 17.3	1.445	2.402	10.2	19.7
5 31	17 29.07	-25 18.6	2.583	3.577	3.8	21.2	5 31	17 30.13	-19 4.2	1.376	2.373	5.9	19.3
6 10	17 20.66	-25 20.2	2.549	3.564	0.8	20.9	6 10	17 20.87	-17 47.4	1.333	2.345	2.4	19.0
6 20	17 12.04	-25 18.5	2.545	3.550	2.8	21.1	6 20	17 11.15	-16 31.5	1.315	2.318	5.4	19.2
6 30	17 3.96	-25 14.0	2.570	3.537	6.0	21.3	6 30	17 2.31	-15 22.0	1.322	2.291	10.2	19.4
7 10	16 57.11	-25 8.2	2.621	3.523	8.9	21.4	7 10	16 55.48	-14 23.8	1.352	2.264	14.8	19.6
7 20	16 51.98	-25 2.4	2.695	3.508	11.4	21.6	7 20	16 51.42	-13 39.7	1.401	2.238	18.7	19.7
<b>179787</b>	2002 <i>TU</i> <sub>4</sub>	6 11.4 262°64'		3°1'/11.6 18			<b>267431</b>	2002 <i>CU</i> <sub>102</sub>	6 11.4 101°25'		0°8'/11.6 17		
5 11	17 47.62	-29 10.7	1.638	2.518	14.0	19.6	5 11	17 47.44	-25 25.3	1.995	2.869	12.2	21.4
5 21	17 41.17	-29 48.0	1.559	2.506	10.4	19.3	5 21	17 40.17	-25 31.2	1.946	2.893	8.7	21.2
5 31	17 32.00	-30 19.7	1.504	2.495	6.4	19.1	5 31	17 31.03	-25 33.1	1.921	2.916	4.8	21.1
6 10	17 21.06	-30 42.2	1.473	2.483	3.2	18.8	6 10	17 20.96	-25 30.3	1.924	2.938	1.0	20.8
6 20	17 9.63	-30 53.1	1.469	2.471	5.1	18.9	6 20	17 10.95	-25 22.8	1.955	2.960	3.5	21.0
6 30	16 59.17	-30 53.1	1.490	2.458	9.3	19.1	6 30	17 2.02	-25 12.1	2.013	2.982	7.2	21.3
7 10	16 50.94	-30 45.2	1.535	2.446	13.4	19.3	7 10	16 54.94	-25 0.5	2.097	3.003	10.5	21.6
7 20	16 45.72	-30 33.4	1.599	2.433	16.9	19.5	7 20	16 50.19	-24 50.1	2.203	3.023	13.3	21.8
<b>260604</b>	2005 <i>GE</i> <sub>13</sub>	6 11.4 29°40'		0°1'/11.4 17			<b>109314</b>	2001 <i>QU</i> <sub>134</sub>	6 11.4 134°03'		5°0'/12.9 18		
5 11	17 44.37	-22 5.1	1.124	2.030	17.0	19.4	5 11	17 47.61	-40 35.4	2.632	3.464	10.9	19.3
5 21	17 39.05	-22 22.7	1.077	2.040	12.1	19.1	5 21	17 40.25	-40 53.5	2.569	3.476	8.6	19.1
5 31	17 30.80	-22 40.3	1.051	2.050	6.7	18.9	5 31	17 31.08	-40 59.1	2.531	3.488	6.5	19.0
6 10	17 20.88	-22 56.4	1.047	2.062	0.8	18.5	6 10	17 20.97	-40 50.1	2.519	3.499	5.1	19.0
6 20	17 10.89	-23 10.0	1.066	2.074	4.9	18.8	6 20	17 10.84	-40 26.2	2.535	3.510	5.5	19.0
6 30	17 2.41	-23 21.7	1.108	2.087	10.3	19.2	6 30	17 1.67	-39 49.3	2.579	3.520	7.3	19.1
7 10	16 56.67	-23 33.3	1.171	2.101	15.0	19.5	7 10	16 54.22	-39 3.3	2.648	3.530	9.5	19.3
7 20	16 54.27	-23 46.2	1.252	2.116	18.9	19.8	7 20	16 48.96	-38 12.4	2.740	3.540	11.5	19.4
<b>83443</b>	2001 <i>SF</i> <sub>57</sub>	6 11.4 194°14'		2°6'/11.7 18			<b>392573</b>	2011 <i>SQ</i> <sub>122</sub>	6 11.4 282°01'		5°2'/10.1 18		
5 11	17 44.83	-30 4.7	2.353	3.220	10.8	19.3	5 11	17 40.92	- 9 50.0	2.092	2.962	11.8	21.0
5 21	17 38.42	-30 37.7	2.279	3.219	8.0	19.1	5 21	17 35.65	- 9 4.2	2.011	2.947	9.1	20.8
5 31	17 30.17	-31 5.3	2.230	3.217	4.9	18.9	5 31	17 28.68	- 8 25.0	1.955	2.932	6.5	20.6
6 10	17 20.81	-31 25.2	2.208	3.216	2.7	18.7	6 10	17 20.68	- 7 55.2	1.925	2.917	5.2	20.5
6 20	17 11.22	-31 36.4	2.215	3.214	4.0	18.8	6 20	17 12.45	- 7 36.9	1.922	2.902	6.5	20.5
6 30	17 2.36	-31 39.3	2.249	3.212	7.0	19.0	6 30	17 4.87	- 7 31.7	1.944	2.887	9.2	20.7
7 10	16 55.06	-31 35.7	2.309	3.210	9.9	19.2	7 10	16 58.68	- 7 39.4	1.990	2.872	12.1	20.8
7 20	16 49.87	-31 28.4	2.391	3.207	12.6	19.4	7 20	16 54.45	- 7 58.9	2.057	2.857	14.8	21.0
<b>159630</b>	2002 <i>CJ</i> <sub>8</sub>	6 11.4 136°90'											

EPHEMERIDES

6 11.4

6 11.5

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>370169</b>	2002 <i>AF</i> <sub>133</sub>		6 11.4 173°86	2°1/11.9	17		<b>141978</b>	2002 <i>PZ</i> <sub>128</sub>		6 11.5 278°36	3°0/11.5	18	
5 11	17 47.33	-30 10.1	2.530	3.390	10.4	22.5	5 11	17 48.01	-28 18.6	1.600	2.481	14.2	19.6
5 21	17 39.99	-30 15.2	2.457	3.394	7.6	22.4	5 21	17 41.68	-29 2.2	1.511	2.460	10.6	19.3
5 31	17 30.95	-30 13.7	2.409	3.397	4.6	22.2	5 31	17 32.45	-29 42.1	1.446	2.438	6.4	19.0
6 10	17 20.96	-30 4.2	2.390	3.400	2.2	22.0	6 10	17 21.21	-30 14.1	1.405	2.416	3.1	18.8
6 20	17 10.87	-29 47.0	2.400	3.401	3.5	22.1	6 20	17 9.25	-30 35.3	1.391	2.393	5.2	18.8
6 30	17 1.58	-29 23.5	2.439	3.402	6.5	22.3	6 30	16 58.12	-30 45.2	1.402	2.371	9.7	19.0
7 10	16 53.84	-28 56.3	2.504	3.402	9.4	22.5	7 10	16 49.20	-30 46.3	1.436	2.348	14.1	19.2
7 20	16 48.13	-28 28.3	2.593	3.401	11.9	22.6	7 20	16 43.42	-30 42.6	1.490	2.325	17.9	19.4
<b>295743</b>	2008 <i>UK</i> <sub>96</sub>		6 11.4 195°93	4°4/11.6	18		<b>301099</b>	2008 <i>UA</i> <sub>366</sub>		6 11.5 274°53	2°2/11.2	17	
5 11	17 48.86	-33 49.7	2.221	3.078	11.8	21.0	5 11	17 46.36	-18 56.3	1.302	2.197	15.9	20.7
5 21	17 41.58	-34 48.0	2.147	3.076	9.0	20.8	5 21	17 40.48	-18 45.4	1.230	2.187	11.5	20.5
5 31	17 32.06	-35 38.7	2.096	3.073	6.1	20.6	5 31	17 31.72	-18 36.5	1.179	2.176	6.6	20.1
6 10	17 21.13	-36 17.8	2.074	3.070	4.4	20.5	6 10	17 21.11	-18 30.4	1.152	2.166	2.3	19.8
6 20	17 9.82	-36 42.9	2.079	3.067	5.4	20.6	6 20	17 10.05	-18 27.8	1.150	2.155	5.4	20.0
6 30	16 59.30	-36 54.0	2.111	3.063	8.1	20.7	6 30	17 0.12	-18 29.9	1.171	2.144	10.7	20.3
7 10	16 50.59	-36 53.6	2.169	3.059	11.0	20.9	7 10	16 52.63	-18 38.3	1.214	2.133	15.5	20.5
7 20	16 44.35	-36 45.5	2.249	3.054	13.6	21.1	7 20	16 48.36	-18 53.5	1.275	2.123	19.6	20.7
<b>507070</b>	2008 <i>XH</i> <sub>18</sub>		6 11.4 213°69	1°5/11.2	17		<b>257906</b>	2000 <i>UD</i> <sub>67</sub>		6 11.5 188°98	2°1/10.8	18	
5 11	17 43.41	-19 40.9	2.038	2.918	11.7	22.0	5 11	17 41.34	-17 31.5	2.528	3.402	9.9	20.6
5 21	17 37.44	-19 25.9	1.965	2.915	8.4	21.8	5 21	17 35.64	-16 58.9	2.456	3.401	7.2	20.4
5 31	17 29.65	-19 11.2	1.917	2.912	4.7	21.5	5 31	17 28.55	-16 27.3	2.409	3.400	4.2	20.2
6 10	17 20.80	-18 57.4	1.895	2.909	1.5	21.3	6 10	17 20.67	-15 57.9	2.390	3.399	2.2	20.1
6 20	17 11.79	-18 45.3	1.901	2.905	3.9	21.5	6 20	17 12.72	-15 32.2	2.399	3.398	3.8	20.2
6 30	17 3.57	-18 36.2	1.934	2.901	7.6	21.7	6 30	17 5.40	-15 11.6	2.437	3.396	6.7	20.4
7 10	16 56.94	-18 31.4	1.992	2.897	11.1	21.9	7 10	16 59.35	-14 57.1	2.500	3.394	9.5	20.6
7 20	16 52.45	-18 31.7	2.071	2.893	14.0	22.1	7 20	16 54.99	-14 49.3	2.586	3.392	12.0	20.7
<b>169334</b>	2001 <i>TQ</i> <sub>176</sub>		6 11.4 274°57	0°5/11.5	18		<b>153878</b>	2001 <i>XM</i> <sub>141</sub>		6 11.5 312°99	1°9/11.2	18	
5 11	17 42.87	-24 42.5	2.091	2.971	11.4	20.3	5 11	17 42.72	-19 29.1	1.405	2.302	14.8	19.7
5 21	17 37.12	-24 40.8	2.014	2.964	8.2	20.1	5 21	17 37.82	-19 17.9	1.323	2.281	10.8	19.4
5 31	17 29.50	-24 35.9	1.961	2.957	4.6	19.8	5 31	17 30.26	-19 8.0	1.263	2.261	6.2	19.1
6 10	17 20.79	-24 27.5	1.935	2.950	0.8	19.5	6 10	17 20.93	-19 0.1	1.227	2.241	2.0	18.7
6 20	17 11.87	-24 15.9	1.937	2.943	3.4	19.7	6 20	17 11.09	-18 55.1	1.215	2.221	5.1	18.9
6 30	17 3.72	-24 2.2	1.966	2.937	7.2	19.9	6 30	17 2.14	-18 54.4	1.228	2.202	10.1	19.1
7 10	16 57.17	-23 48.5	2.020	2.930	10.7	20.1	7 10	16 55.36	-18 59.5	1.262	2.184	14.8	19.3
7 20	16 52.78	-23 36.8	2.095	2.923	13.7	20.3	7 20	16 51.54	-19 11.2	1.314	2.166	18.9	19.5
<b>38556</b>	1999 <i>VP</i> <sub>87</sub>		6 11.4 253°53	3°6/10.6	18		<b>213062</b>	1999 <i>RY</i> <sub>82</sub>		6 11.5 323°02	6°3/10.4	17	
5 11	17 40.24	-12 28.6	2.404	3.275	10.5	18.5	5 11	17 41.30	-12 22.7	1.188	2.089	16.6	19.9
5 21	17 34.95	-12 1.2	2.329	3.269	7.8	18.4	5 21	17 36.97	-11 33.2	1.117	2.072	12.7	19.6
5 31	17 28.20	-11 38.6	2.279	3.263	5.2	18.2	5 31	17 29.83	-10 51.5	1.065	2.055	8.6	19.3
6 10	17 20.62	-11 22.3	2.256	3.256	3.6	18.1	6 10	17 20.88	-10 22.3	1.036	2.039	6.3	19.1
6 20	17 12.89	-11 13.7	2.260	3.250	4.9	18.1	6 20	17 11.45	-10 9.4	1.029	2.023	8.4	19.2
6 30	17 5.76	-11 13.5	2.291	3.243	7.5	18.3	6 30	17 3.05	-10 14.8	1.044	2.009	12.7	19.4
7 10	16 59.87	-11 21.7	2.348	3.236	10.3	18.5	7 10	16 57.01	-10 38.2	1.078	1.995	17.2	19.6
7 20	16 55.70	-11 37.8	2.426	3.229	12.8	18.6	7 20	16 54.12	-11 17.0	1.130	1.982	21.3	19.8
<b>73706</b>	1991 <i>VC</i> <sub>9</sub>		6 11.5 49°61	0°1/11.4	18		<b>59840</b>	1999 <i>RD</i> <sub>49</sub>		6 11.5 223°62	3°5/12.2	18	
5 11	17 45.87	-22 10.7	1.337	2.233	15.5	18.9	5 11	17 44.38	-34 14.4	2.420	3.278	10.8	18.1
5 21	17 39.82	-22 24.1	1.286	2.243	11.1	18.7	5 21	17 38.11	-34 27.4	2.343	3.274	8.2	17.9
5 31	17 31.15	-22 37.0	1.256	2.254	6.1	18.4	5 31	17 30.02	-34 31.5	2.290	3.270	5.5	17.7
6 10	17 21.00	-22 48.1	1.250	2.265	0.8	18.1	6 10	17 20.88	-34 24.9	2.265	3.266	3.6	17.6
6 20	17 10.76	-22 56.9	1.270	2.277	4.5	18.4	6 20	17 11.57	-34 7.3	2.267	3.261	4.4	17.6
6 30	17 1.87	-23 4.2	1.313	2.289	9.5	18.7	6 30	17 3.05	-33 40.2	2.296	3.256	7.0	17.8
7 10	16 55.42	-23 11.8	1.379	2.301	13.8	19.0	7 10	16 56.12	-33 6.6	2.351	3.252	9.8	18.0
7 20	16 52.01	-23 21.0	1.464	2.313	17.4	19.3	7 20	16 51.31	-32 30.1	2.429	3.247	12.3	18.1
<b>336319</b>	2008 <i>TL</i> <sub>63</sub>		6 11.5 265°98	0°8/11.6	17		<b>21809</b>	1999 <i>TG</i> <sub>19</sub>		6 11.5 325°62	1°4/11.7	18	
5 11	17 44.84	-25 6.6	1.884	2.765	12.4	21.5	5 11	17 44.75	-27 23.8	1.780	2.662	13.0	18.1
5 21	17 38.79	-25 11.4	1.801	2.752	9.0	21.3	5 21	17 38.70	-27 21.2	1.711	2.660	9.4	17.9
5 31	17 30.54	-25 12.8	1.742	2.738	5.0	21.0	5 31	17 30.46	-27 12.6	1.665	2.659	5.4	17.7
6 10	17 20.93	-25 9.8	1.710	2.724	1.0	20.7	6 10	17 20.94	-26 57.1	1.645	2.658	1.6	17.4
6 20	17 10.99	-25 2.2	1.704	2.710	3.8	20.9	6 20	17 11.26	-26 35.1	1.651	2.657	4.0	17.6
6 30	17 1.85	-24 51.3	1.725	2.696	8.0	21.1	6 30	17 2.58	-26 8.8	1.684	2.656	8.1	17.8
7 10	16 54.51	-24 39.2	1.770	2.682	11.9	21.3	7 10	16 55.88	-25 41.5	1.741	2.655	11.9	18.0
7 20	16 49.64	-24 28.6	1.836	2.667	15.2	21.5	7 20	16 51.71	-25 16.0	1.819	2.655	15.1	18.3
<b>441435</b>	2008 <i>HE</i> <sub>8</sub>		6 11.5 63°18	3°4/11.1	15		<b>356358</b>	2010 <i>LJ</i> <sub>119</sub>		6 11.5 275°45	4°8/12.2	18	
5 11	17 40.98	-12 39.5	2.225	3.098	11.1	21.7	5 11	17 45.07	-36 58.8	2.288	3.142	11.6	21.1
5 21	17 35.51	-12 34.4	2.163	3.105	8.2	21.5	5 21	17 38.84	-37 29.5	2.208	3.132	9.0	20.9
5 31	17 28.51	-12 35.4	2.125	3.111	5.3	21.3	5 31	17 30.53	-37 49.9	2.151	3.122	6.5	20.7
6 10	17 20.65	-12 43.3	2.114	3.117	3.4	21.2	6 10	17 20.96	-37 57.0	2.121	3.113	4.9	20.6
6 20	17 12.71	-12 58.2	2.130	3.124	4.7	21.3	6 20	17 11.11	-37 49.6	2.118	3.103	5.6	20.6
6 30	17 5.47	-13 19.9	2.173	3.131	7.5	21.5	6 30	17 2.07	-37 28.9	2.141	3.094	7.9	20.8
7 10	16 59.61	-13 48.0	2.241	3.137	10.4	21.7	7 10	16 54.76	-36 58.2	2.189	3.084	10.7	20.9
7 20	16 55.59	-14 21.2	2.331	3.144	12.9	21.9	7 20	16 49.79	-36 21.5	2.259	3.074	13.2	21.1
<b>39148</b>	2000 <i>WM</i> <sub>93</sub>		6 11.5 247°11	0°5/11.3	18								

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>483103</b>	2015 <i>MV</i> <sub>97</sub>		6 11.5 269°84	6°0/10.9 18			<b>315222</b>	2007 <i>RA</i> <sub>149</sub>		6 11.5 256°07	2°2/11.9 17		
5 11	17 41.16	-3 42.6	2.391	3.238	11.3	21.4	5 11	17 48.75	-29 8.5	1.583	2.463	14.4	21.3
5 21	17 35.66	-3 32.1	2.310	3.225	9.1	21.3	5 21	17 42.05	-29 5.5	1.499	2.447	10.6	21.0
5 31	17 28.65	-3 33.2	2.252	3.211	7.1	21.1	5 31	17 32.55	-28 53.7	1.438	2.431	6.3	20.7
6 10	17 20.72	-3 47.8	2.221	3.197	6.0	21.0	6 10	17 21.28	-28 31.0	1.402	2.414	2.4	20.4
6 20	17 12.55	-4 16.4	2.217	3.183	6.8	21.1	6 20	17 9.56	-27 57.6	1.392	2.397	4.7	20.5
6 30	17 4.92	-4 58.6	2.239	3.169	8.8	21.2	6 30	16 58.90	-27 16.4	1.408	2.379	9.4	20.7
7 10	16 58.51	-5 52.4	2.285	3.154	11.3	21.3	7 10	16 50.57	-26 32.3	1.447	2.361	13.8	21.0
7 20	16 53.81	-6 55.4	2.354	3.140	13.6	21.4	7 20	16 45.32	-25 50.2	1.506	2.343	17.7	21.2
<b>267350</b>	2001 <i>WU</i> <sub>43</sub>		6 11.5 108°55	2°1/11.6 17			<b>153739</b>	2001 <i>UY</i> <sub>142</sub>		6 11.5 123°85	2°3/11.1 17		
5 11	17 47.62	-26 55.5	1.752	2.630	13.3	20.8	5 11	17 45.19	-18 1.6	1.842	2.722	12.7	20.7
5 21	17 40.78	-27 33.5	1.692	2.640	9.6	20.6	5 21	17 38.74	-17 38.1	1.783	2.732	9.1	20.5
5 31	17 31.62	-28 7.4	1.656	2.649	5.6	20.4	5 31	17 30.37	-17 16.2	1.748	2.742	5.3	20.2
6 10	17 21.10	-28 34.3	1.646	2.658	2.2	20.2	6 10	17 20.97	-16 57.2	1.740	2.751	2.3	20.1
6 20	17 10.41	-28 52.6	1.663	2.666	4.3	20.3	6 20	17 11.53	-16 42.2	1.759	2.760	4.5	20.2
6 30	17 0.79	-29 2.7	1.706	2.675	8.3	20.6	6 30	17 3.07	-16 32.7	1.804	2.769	8.2	20.5
7 10	16 53.25	-29 6.9	1.774	2.683	12.0	20.8	7 10	16 56.41	-16 29.6	1.874	2.777	11.7	20.7
7 20	16 48.40	-29 7.9	1.862	2.691	15.1	21.0	7 20	16 52.05	-16 33.2	1.965	2.785	14.7	20.9
<b>273886</b>	2007 <i>HS</i> <sub>20</sub>		6 11.5 307°06	10°1/10.1 18			<b>20054</b>	1993 <i>FX</i> <sub>37</sub>		6 11.5 313°17	1°2/11.6 18		
5 11	17 51.13	-41 38.5	1.568	2.420	16.0	19.9	5 11	17 44.19	-25 33.4	1.678	2.565	13.4	17.8
5 21	17 44.86	-43 35.4	1.482	2.394	13.4	19.6	5 21	17 38.51	-25 46.4	1.605	2.557	9.7	17.6
5 31	17 34.73	-45 21.6	1.417	2.368	11.1	19.4	5 31	17 30.48	-25 55.9	1.554	2.550	5.5	17.3
6 10	17 21.61	-46 46.7	1.376	2.341	10.1	19.3	6 10	17 21.01	-26 0.5	1.529	2.543	1.4	17.0
6 20	17 7.09	-47 42.3	1.359	2.315	11.1	19.3	6 20	17 11.22	-25 59.5	1.529	2.536	4.1	17.2
6 30	16 53.34	-48 5.5	1.365	2.290	13.7	19.4	6 30	17 2.38	-25 54.1	1.556	2.529	8.5	17.5
7 10	16 42.41	-48 0.6	1.391	2.265	16.8	19.5	7 10	16 55.55	-25 46.6	1.606	2.522	12.5	17.7
7 20	16 35.66	-47 35.7	1.435	2.240	19.9	19.6	7 20	16 51.38	-25 39.6	1.676	2.516	16.0	17.9
<b>504793</b>	2010 <i>AF</i> <sub>65</sub>		6 11.5 117°56	5°2/12.8 17			<b>183017</b>	2002 <i>PV</i> <sub>93</sub>		6 11.5 237°09	1°5/11.6 18		
5 11	17 48.82	-38 6.1	1.958	2.811	13.3	21.5	5 11	17 48.15	-26 13.9	1.934	2.808	12.5	20.6
5 21	17 41.53	-38 16.4	1.896	2.819	10.3	21.3	5 21	17 41.23	-26 35.8	1.847	2.793	9.1	20.4
5 31	17 31.96	-38 12.3	1.856	2.828	7.3	21.1	5 31	17 31.97	-26 54.2	1.785	2.778	5.2	20.1
6 10	17 21.15	-37 51.4	1.843	2.836	5.3	21.0	6 10	17 21.21	-27 7.1	1.749	2.763	1.6	19.8
6 20	17 10.34	-37 13.9	1.856	2.844	5.9	21.1	6 20	17 10.01	-27 13.2	1.742	2.746	4.0	20.0
6 30	17 0.76	-36 22.8	1.895	2.852	8.5	21.2	6 30	16 59.58	-27 13.0	1.761	2.730	8.1	20.2
7 10	16 53.37	-35 23.6	1.959	2.859	11.5	21.4	7 10	16 51.01	-27 8.9	1.806	2.712	12.0	20.4
7 20	16 48.69	-34 21.9	2.045	2.867	14.2	21.6	7 20	16 44.99	-27 3.4	1.872	2.694	15.3	20.6
<b>208578</b>	2002 <i>CY</i> <sub>69</sub>		6 11.5 266°02	2°0/11.7 17			<b>158409</b>	2002 <i>AM</i> <sub>33</sub>		6 11.5 50°11	0°5/11.4 18		
5 11	17 47.66	-27 15.7	1.442	2.330	15.1	20.4	5 11	17 45.43	-21 2.3	1.445	2.338	14.8	18.8
5 21	17 41.40	-27 28.2	1.367	2.319	11.0	20.1	5 21	17 39.29	-21 18.8	1.400	2.356	10.5	18.6
5 31	17 32.24	-27 34.8	1.313	2.308	6.4	19.8	5 31	17 30.79	-21 36.0	1.377	2.374	5.8	18.3
6 10	17 21.23	-27 33.1	1.284	2.297	2.2	19.5	6 10	17 21.03	-21 52.7	1.378	2.393	0.9	18.0
6 20	17 9.77	-27 22.3	1.279	2.285	4.8	19.6	6 20	17 11.28	-22 8.2	1.405	2.412	4.3	18.3
6 30	16 59.43	-27 4.4	1.300	2.274	9.8	19.9	6 30	17 2.81	-22 22.8	1.457	2.432	8.9	18.6
7 10	16 51.54	-26 43.1	1.343	2.262	14.3	20.1	7 10	16 56.59	-22 37.6	1.533	2.451	12.9	18.9
7 20	16 46.87	-26 22.5	1.406	2.250	18.3	20.3	7 20	16 53.16	-22 53.5	1.628	2.471	16.2	19.2
<b>314117</b>	2005 <i>ET</i> <sub>104</sub>		6 11.5 221°98	1°9/11.2 17			<b>374276</b>	2005 <i>NL</i> <sub>62</sub>		6 11.5 330°01	4°0/12.2 17		
5 11	17 46.89	-18 42.9	1.678	2.560	13.6	21.4	5 11	17 44.16	-32 11.3	1.259	2.153	16.4	19.9
5 21	17 40.33	-18 33.0	1.602	2.553	9.9	21.2	5 21	17 39.24	-32 12.4	1.187	2.139	12.3	19.7
5 31	17 31.44	-18 24.7	1.551	2.545	5.6	20.9	5 31	17 31.17	-32 0.2	1.134	2.126	7.8	19.4
6 10	17 21.11	-18 18.4	1.524	2.537	2.0	20.7	6 10	17 21.11	-31 32.0	1.104	2.113	4.2	19.1
6 20	17 10.48	-18 14.8	1.525	2.529	4.6	20.8	6 20	17 10.65	-30 47.9	1.098	2.102	5.9	19.2
6 30	17 0.77	-18 14.9	1.552	2.520	9.0	21.1	6 30	17 1.51	-29 52.0	1.114	2.091	10.6	19.4
7 10	16 53.05	-18 19.9	1.603	2.510	13.1	21.3	7 10	16 55.12	-28 51.2	1.252	2.081	15.3	19.6
7 20	16 47.96	-18 30.6	1.674	2.500	16.6	21.5	7 20	16 52.24	-27 52.2	1.507	2.072	19.4	19.9
<b>19242</b>	1994 <i>CB</i> <sub>1</sub>		6 11.5 170°11	0°3/11.4 18			<b>277638</b>	2006 <i>BD</i> <sub>101</sub>		6 11.5 37°98	0°4/11.3 17		
5 11	17 45.86	-22 45.1	2.440	3.309	10.4	19.2	5 11	17 44.84	-25 23.2	1.491	2.383	14.5	19.6
5 21	17 38.92	-22 34.6	2.369	3.314	7.4	19.0	5 21	17 38.80	-24 27.7	1.437	2.392	10.3	19.3
5 31	17 30.38	-22 22.1	2.324	3.319	4.1	18.8	5 31	17 30.48	-23 25.2	1.405	2.403	5.7	19.1
6 10	17 20.96	-22 7.4	2.308	3.322	0.6	18.5	6 10	17 20.98	-22 18.3	1.399	2.414	0.8	18.8
6 20	17 11.45	-21 51.4	2.320	3.325	3.1	18.7	6 20	17 11.58	-21 10.6	1.418	2.425	4.3	19.1
6 30	17 2.70	-21 35.2	2.362	3.327	6.5	19.0	6 30	17 3.48	-20 7.2	1.463	2.437	8.9	19.4
7 10	16 55.41	-21 20.5	2.429	3.329	9.6	19.2	7 10	16 57.62	-19 12.1	1.532	2.449	13.0	19.6
7 20	16 50.05	-21 8.8	2.520	3.329	12.2	19.4	7 20	16 54.46	-18 28.0	1.620	2.461	16.4	19.9
<b>32472</b>	2000 <i>SC</i> <sub>210</sub>		6 11.5 261°61	1°7/11.6 18			<b>312567</b>	2009 <i>HJ</i> <sub>10</sub>		6 11.5 147°31	4°1/11.3 17		
5 11	17 43.96	-26 50.4	2.249	3.122	11.0	19.1	5 11	17 46.26	-12 52.2	1.544	2.425	14.7	20.4
5 21	17 37.93	-27 23.1	2.169	3.115	8.0	18.9	5 21	17 39.87	-12 49.5	1.482	2.428	10.9	20.2
5 31	17 30.01	-27 52.9	2.115	3.107	4.6	18.7	5 31	17 31.17	-12 55.4	1.442	2.431	6.9	19.9
6 10	17 20.92	-28 17.8	2.088	3.100	1.8	18.5	6 10	17 21.10	-13 10.7	1.428	2.434	4.2	19.8
6 20	17 11.55	-28 36.4	2.088	3.092	3.6	18.6	6 20	17 10.83	-13 35.3	1.439	2.436	5.9	19.9
6 30	17 2.84	-28 48.8	2.117	3.084	7.0	18.8	6 30	17 1.61	-14 8.6	1.476	2.439	9.8	20.1
7 10	16 55.67	-28 56.4	2.171	3.076	10.3	19.0	7 10	16 54.44	-14 49.2	1.535	2.441	13.7	20.4
7 20	16 50.61	-29 1.1	2.247	3.069	13.1	19.2	7 20	16 49.95	-15 35.5	1.615	2.443	17.1	20.6
<b>504235</b>	2006 <i>UW</i> <sub>231</sub>		6 11.5 287°81	2°2/10.9 17									

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>277041</b>	2005 <i>CT</i> <sub>57</sub>		6 11.5 161°55	0°7/11.3	17		<b>320679</b>	2008 <i>CB</i> <sub>205</sub>		6 11.5 135°56	1°5/11.7	17	
5 11	17 44.25	-21 45.6	2.341	3.214	10.6	21.5	5 11	17 48.66	-26 57.7	1.750	2.627	13.4	21.7
5 21	17 37.82	-21 28.1	2.273	3.220	7.6	21.3	5 21	17 41.45	-27 6.4	1.690	2.637	9.7	21.5
5 31	17 29.80	-21 9.1	2.230	3.225	4.2	21.1	5 31	17 31.97	-27 9.6	1.653	2.647	5.5	21.3
6 10	17 20.91	-20 49.1	2.215	3.229	0.9	20.8	6 10	17 21.22	-27 5.8	1.643	2.656	1.7	21.0
6 20	17 11.95	-20 28.9	2.229	3.233	3.3	21.0	6 20	17 10.39	-26 54.9	1.660	2.665	4.0	21.2
6 30	17 3.77	-20 10.0	2.271	3.237	6.7	21.2	6 30	17 0.72	-26 38.7	1.704	2.674	8.2	21.5
7 10	16 57.04	-19 54.1	2.338	3.240	9.8	21.4	7 10	16 53.16	-26 20.4	1.772	2.681	11.9	21.7
7 20	16 52.25	-19 42.4	2.429	3.242	12.5	21.6	7 20	16 48.28	-26 3.0	1.861	2.689	15.1	21.9
<b>491798</b>	2012 <i>XH</i> <sub>53</sub>		6 11.5 142°49	1°3/11.8	17		<b>427965</b>	2005 <i>YD</i> <sub>71</sub>		6 11.5 161°66	0°3/11.5	17	
5 11	17 43.71	-28 13.5	2.585	3.452	9.9	21.6	5 11	17 46.95	-20 49.0	2.272	3.142	11.0	21.9
5 21	17 37.35	-28 4.5	2.518	3.461	7.2	21.4	5 21	17 39.87	-21 15.6	2.203	3.149	7.9	21.7
5 31	17 29.51	-27 50.1	2.477	3.469	4.1	21.2	5 31	17 31.00	-21 42.9	2.160	3.155	4.3	21.5
6 10	17 20.87	-27 30.1	2.464	3.477	1.4	21.1	6 10	17 21.10	-22 9.7	2.145	3.160	0.6	21.2
6 20	17 12.21	-27 5.1	2.480	3.484	3.0	21.2	6 20	17 11.03	-22 34.8	2.159	3.165	3.2	21.4
6 30	17 4.30	-26 36.7	2.524	3.491	6.0	21.4	6 30	17 1.71	-22 58.0	2.202	3.169	6.8	21.6
7 10	16 57.80	-26 7.2	2.594	3.498	8.9	21.6	7 10	16 53.93	-23 19.9	2.271	3.172	10.1	21.8
7 20	16 53.13	-25 39.0	2.688	3.504	11.3	21.8	7 20	16 48.22	-23 41.2	2.363	3.175	12.8	22.0
<b>338561</b>	2003 <i>SF</i> <sub>65</sub>		6 11.5 283°80	0°9/11.7	18		<b>180310</b>	2003 <i>XF</i> <sub>1</sub>		6 11.5 250°74	4°2/12.0	17	
5 11	17 44.92	-27 24.4	1.802	2.683	12.9	20.1	5 11	17 49.08	-32 45.8	1.634	2.507	14.4	20.5
5 21	17 38.86	-26 56.0	1.723	2.672	9.3	19.8	5 21	17 42.32	-33 11.0	1.555	2.495	10.9	20.2
5 31	17 30.59	-26 19.8	1.667	2.662	5.3	19.6	5 31	17 32.74	-33 26.0	1.498	2.484	7.1	20.0
6 10	17 21.03	-25 36.0	1.637	2.652	1.2	19.3	6 10	17 21.36	-33 27.1	1.467	2.472	4.3	19.8
6 20	17 11.27	-24 46.3	1.635	2.641	3.9	19.4	6 20	17 9.54	-33 12.8	1.461	2.459	5.7	19.8
6 30	17 2.47	-23 54.3	1.659	2.631	8.2	19.7	6 30	16 58.81	-32 44.9	1.481	2.446	9.6	20.0
7 10	16 55.60	-23 3.9	1.707	2.620	12.1	19.9	7 10	16 50.46	-32 8.3	1.524	2.434	13.5	20.2
7 20	16 51.27	-22 18.9	1.776	2.610	15.5	20.1	7 20	16 45.24	-31 28.4	1.587	2.420	17.0	20.4
<b>277991</b>	2006 <i>UO</i> <sub>15</sub>		6 11.5 163°83	4°8/ 9.9	17		<b>507799</b>	2014 <i>BV</i> <sub>57</sub>		6 11.5 220°80	10°6/13.2	18	
5 11	17 41.13	-10 17.3	2.331	3.197	10.9	20.4	5 11	18 4.86	-59 58.6	2.786	3.498	13.2	22.8
5 21	17 35.56	-9 21.2	2.265	3.199	8.3	20.3	5 21	17 53.95	-61 4.0	2.706	3.485	12.1	22.7
5 31	17 28.55	-8 30.7	2.225	3.200	5.9	20.1	5 31	17 39.31	-61 48.3	2.646	3.471	11.2	22.6
6 10	17 20.76	-7 48.6	2.211	3.202	4.8	20.1	6 10	17 22.23	-62 4.8	2.609	3.456	10.7	22.5
6 20	17 12.90	-7 17.2	2.225	3.203	5.9	20.1	6 20	17 4.58	-61 50.1	2.594	3.441	10.8	22.5
6 30	17 5.72	-6 57.9	2.266	3.204	8.3	20.3	6 30	16 48.47	-61 5.3	2.603	3.424	11.5	22.6
7 10	16 59.85	-6 50.9	2.331	3.205	10.9	20.4	7 10	16 35.56	-59 56.3	2.633	3.407	12.6	22.6
7 20	16 55.73	-6 55.3	2.417	3.206	13.2	20.6	7 20	16 26.68	-58 31.0	2.683	3.388	13.9	22.7
<b>289203</b>	2004 <i>XU</i> <sub>7</sub>		6 11.5 228°74	0°9/11.3	18		<b>523161</b>	2016 <i>TW</i> <sub>97</sub>		6 11.5 164°45	0°3/11.6	18	
5 11	17 44.51	-21 12.3	2.190	3.066	11.2	21.6	5 11	17 42.68	-25 38.1	2.403	3.277	10.4	21.4
5 21	17 38.24	-20 56.3	2.107	3.055	8.0	21.4	5 21	17 36.73	-25 14.3	2.331	3.279	7.4	21.3
5 31	17 30.15	-20 39.1	2.050	3.045	4.5	21.2	5 31	17 29.23	-24 46.1	2.285	3.280	4.1	21.0
6 10	17 20.99	-20 21.0	2.019	3.033	1.1	20.9	6 10	17 20.88	-24 13.9	2.266	3.281	0.6	20.8
6 20	17 11.60	-20 3.0	2.017	3.022	3.6	21.1	6 20	17 12.47	-23 39.0	2.276	3.282	3.0	21.0
6 30	17 2.92	-19 46.4	2.043	3.009	7.3	21.3	6 30	17 4.82	-23 3.3	2.314	3.283	6.4	21.2
7 10	16 55.76	-19 33.0	2.094	2.997	10.7	21.5	7 10	16 58.60	-22 29.3	2.378	3.284	9.5	21.4
7 20	16 50.66	-19 24.1	2.167	2.984	13.7	21.6	7 20	16 54.26	-21 59.0	2.464	3.285	12.1	21.6
<b>434779</b>	2006 <i>KR</i> <sub>100</sub>		6 11.5 308°29	11°3/ 7.7	18		<b>245550</b>	2005 <i>UP</i> <sub>5</sub>		6 11.5 185°75	8°4/ 9.3	18	
5 11	17 40.62	+ 1 36.0	1.677	2.525	15.3	20.6	5 11	17 39.65	+ 9 1.8	3.066	3.844	10.8	21.0
5 21	17 35.91	+ 3 1.1	1.595	2.496	13.3	20.4	5 21	17 34.27	+ 9 44.6	3.005	3.844	9.6	20.9
5 31	17 29.08	+ 4 14.7	1.535	2.468	11.7	20.2	5 31	17 27.79	+10 12.5	2.967	3.843	8.7	20.9
6 10	17 20.87	+ 5 3.7	1.496	2.439	11.3	20.1	6 10	17 20.70	+10 23.1	2.954	3.842	8.4	20.9
6 20	17 12.20	+ 5 25.2	1.481	2.411	12.4	20.1	6 20	17 13.53	+10 15.3	2.965	3.840	8.8	20.9
6 30	17 4.17	+ 5 16.9	1.486	2.383	14.6	20.2	6 30	17 6.84	+ 9 49.2	3.000	3.838	9.7	20.9
7 10	16 57.77	+ 4 40.3	1.512	2.355	17.3	20.3	7 10	17 1.14	+ 9 6.7	3.058	3.836	11.0	21.0
7 20	16 53.71	+ 3 39.7	1.554	2.328	19.9	20.4	7 20	16 56.77	+ 8 10.6	3.136	3.833	12.2	21.1
<b>12005</b>	Delgiudice		6 11.5 352°53	5°4/11.0	18		<b>351933</b>	2006 <i>TV</i> <sub>31</sub>		6 11.5 196°51	0°4/11.4	16	
5 11	17 39.85	- 9 1.0	1.776	2.654	13.2	16.7	5 11	17 42.58	-22 6.0	2.243	3.121	10.8	21.8
5 21	17 35.11	- 8 48.0	1.710	2.650	10.1	16.5	5 21	17 36.79	-22 0.9	2.171	3.120	7.7	21.6
5 31	17 28.49	- 8 45.6	1.666	2.646	7.1	16.3	5 31	17 29.33	-21 54.8	2.123	3.119	4.3	21.4
6 10	17 20.77	- 8 55.8	1.646	2.642	5.4	16.2	6 10	17 20.91	-21 47.4	2.103	3.118	0.7	21.1
6 20	17 12.85	- 9 19.1	1.652	2.640	6.6	16.3	6 20	17 12.35	-21 39.4	2.111	3.117	3.2	21.3
6 30	17 5.71	- 9 54.9	1.683	2.638	9.5	16.5	6 30	17 4.52	-21 31.7	2.147	3.116	6.8	21.5
7 10	17 0.19	-10 41.4	1.737	2.636	12.7	16.7	7 10	16 58.15	-21 25.5	2.208	3.114	10.1	21.7
7 20	16 56.83	-11 36.1	1.812	2.636	15.6	16.9	7 20	16 53.75	-21 22.2	2.291	3.113	12.8	21.9
<b>195377</b>	2002 <i>FT</i> <sub>37</sub>		6 11.5 317°74	3°8/11.6	18		<b>111991</b>	2002 <i>GL</i> <sub>107</sub>		6 11.5 310°00	4°3/11.0	18	
5 11	17 43.56	-12 28.6	1.517	2.403	14.6	18.9	5 11	17 43.45	-14 43.0	1.268	2.166	16.1	19.4
5 21	17 38.25	-12 49.8	1.438	2.387	10.9	18.7	5 21	17 38.50	-14 22.1	1.194	2.149	12.0	19.1
5 31	17 30.47	-13 22.3	1.381	2.371	6.9	18.4	5 31	17 30.74	-14 8.1	1.140	2.133	7.5	18.8
6 10	17 21.06	-14 6.4	1.348	2.356	3.9	18.2	6 10	17 21.13	-14 3.1	1.109	2.117	4.4	18.5
6 20	17 11.14	-15 0.8	1.341	2.341	5.7	18.2	6 20	17 11.01	-14 8.7	1.101	2.102	6.7	18.6
6 30	17 2.01	-16 3.3	1.359	2.327	10.0	18.4	6 30	17 1.88	-14 25.8	1.117	2.087	11.4	18.8
7 10	16 54.83	-17 11.4	1.399	2.313	14.2	18.7	7 10	16 55.07	-14 54.1	1.153	2.073	16.1	19.1
7 20	16 50.39	-18 22.7	1.460	2.300	17.9	18.9	7 20	16 51.39	-15 32.1	1.207	2.059	20.3	19.3
<b>337111</b>	1999 <i>RP</i> <sub>177</sub>		6 11.5 324°11	4°4/10.8	16		<b>99544</b>	2002 <					

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6 11.5

6 11.5

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>107414</b>	2001 <i>DS</i> <sub>9</sub>		6 11.5 103°10	0°5/11.5 18			<b>88411</b>	2001 <i>QL</i> <sub>28</sub>		6 11.5 317°22	4°2/10.8 18		
5 11	17 42.43	-23 44.9	2.415	3.290	10.3	19.9	5 11	17 41.84	-17 25.1	1.059	1.970	17.4	18.8
5 21	17 36.61	-24 2.6	2.348	3.295	7.3	19.7	5 21	17 37.87	-16 41.5	0.981	1.944	12.9	18.5
5 31	17 29.21	-24 18.9	2.305	3.300	4.1	19.5	5 31	17 30.65	-15 58.9	0.922	1.920	7.9	18.1
6 10	17 20.91	-24 32.8	2.291	3.306	0.7	19.2	6 10	17 21.19	-15 21.2	0.885	1.896	4.2	17.8
6 20	17 12.48	-24 43.8	2.305	3.311	3.0	19.4	6 20	17 10.97	-14 52.1	0.869	1.872	7.3	17.9
6 30	17 4.74	-24 52.3	2.347	3.316	6.3	19.6	6 30	17 1.81	-14 35.7	0.874	1.850	12.9	18.1
7 10	16 58.38	-24 59.3	2.414	3.321	9.3	19.8	7 10	16 55.30	-14 34.3	0.898	1.829	18.4	18.3
7 20	16 53.88	-25 5.9	2.505	3.326	11.9	20.0	7 20	16 52.41	-14 47.8	0.938	1.809	23.2	18.5
<b>497909</b>	2006 <i>VV</i> <sub>26</sub>		6 11.5 190°36	0°1/11.5 17			<b>118786</b>	2000 <i>RJ</i> <sub>98</sub>		6 11.5 273°17	1°8/11.9 18		
5 11	17 46.88	-23 13.0	1.964	2.840	12.2	22.7	5 11	17 46.30	-29 23.3	1.776	2.653	13.2	19.1
5 21	17 40.07	-23 8.1	1.891	2.839	8.8	22.4	5 21	17 40.01	-29 3.7	1.692	2.639	9.7	18.9
5 31	17 31.22	-23 0.7	1.842	2.838	4.8	22.2	5 31	17 31.35	-28 34.6	1.632	2.625	5.7	18.6
6 10	17 21.18	-22 50.5	1.821	2.835	0.6	21.9	6 10	17 21.24	-27 55.5	1.597	2.610	2.0	18.3
6 20	17 10.96	-22 38.0	1.827	2.833	3.6	22.1	6 20	17 10.86	-27 7.5	1.590	2.595	4.1	18.5
6 30	17 1.63	-22 24.6	1.861	2.829	7.7	22.4	6 30	17 1.46	-26 13.9	1.609	2.580	8.4	18.7
7 10	16 54.08	-22 12.3	1.919	2.826	11.3	22.6	7 10	16 54.09	-25 19.6	1.652	2.566	12.4	18.9
7 20	16 48.90	-22 3.1	2.000	2.821	14.5	22.8	7 20	16 49.40	-24 28.8	1.716	2.551	15.9	19.1
<b>434211</b>	2003 <i>SN</i> <sub>37</sub>		6 11.5 243°57	3°7/10.5 17			<b>256519</b>	2007 <i>EK</i> <sub>188</sub>		6 11.5 253°09	1°8/11.1 18		
5 11	17 43.32	-13 55.2	2.231	3.102	11.2	21.2	5 11	17 41.09	-17 52.3	2.609	3.482	9.7	21.2
5 21	17 37.34	-13 11.8	2.146	3.087	8.3	21.0	5 21	17 35.61	-17 33.8	2.522	3.468	7.0	21.0
5 31	17 29.67	-12 31.3	2.087	3.072	5.4	20.8	5 31	17 28.68	-17 16.3	2.461	3.454	4.1	20.8
6 10	17 20.98	-11 55.9	2.054	3.056	3.7	20.6	6 10	17 20.89	-17 0.7	2.428	3.439	1.8	20.6
6 20	17 12.07	-11 27.7	2.049	3.040	5.2	20.7	6 20	17 12.91	-16 47.9	2.423	3.424	3.5	20.7
6 30	17 3.79	-11 8.4	2.072	3.023	8.2	20.9	6 30	17 5.46	-16 38.7	2.447	3.409	6.5	20.9
7 10	16 56.89	-10 59.0	2.119	3.006	11.3	21.0	7 10	16 59.19	-16 34.2	2.496	3.394	9.4	21.1
7 20	16 51.93	-10 59.4	2.188	2.988	14.1	21.2	7 20	16 54.58	-16 34.7	2.568	3.378	12.0	21.2
<b>356405</b>	2010 <i>RG</i> <sub>180</sub>		6 11.5 301°61	4°7/12.2 18			<b>466615</b>	2014 <i>VF</i> <sub>15</sub>		6 11.5 95°33	2°4/11.1 16		
5 11	17 44.60	-36 9.7	2.212	3.069	11.7	20.7	5 11	17 46.91	-18 30.7	1.608	2.492	14.0	21.6
5 21	17 38.58	-36 42.0	2.134	3.061	9.1	20.5	5 21	17 40.11	-18 0.4	1.559	2.510	10.1	21.4
5 31	17 30.47	-37 4.4	2.079	3.053	6.4	20.3	5 31	17 31.20	-17 31.6	1.533	2.527	5.8	21.2
6 10	17 21.09	-37 14.0	2.051	3.045	4.7	20.2	6 10	17 21.20	-17 5.8	1.533	2.544	2.5	21.0
6 20	17 11.43	-37 9.5	2.049	3.037	5.5	20.2	6 20	17 11.28	-16 44.6	1.559	2.561	4.8	21.2
6 30	17 2.59	-36 52.0	2.074	3.029	8.0	20.4	6 30	17 2.56	-16 29.9	1.611	2.578	8.9	21.5
7 10	16 55.50	-36 24.6	2.124	3.022	10.8	20.5	7 10	16 55.93	-16 22.9	1.687	2.594	12.6	21.8
7 20	16 50.78	-35 51.5	2.195	3.014	13.4	20.7	7 20	16 51.85	-16 23.8	1.783	2.610	15.8	22.0
<b>293031</b>	2006 <i>WC</i> <sub>75</sub>		6 11.5 115°71	2°8/11.7 17			<b>367090</b>	2006 <i>QH</i> <sub>61</sub>		6 11.5 335°75	1°0/11.3 17		
5 11	17 45.99	-30 42.3	2.523	3.384	10.4	21.4	5 11	17 41.35	-23 39.2	1.083	1.995	17.0	19.8
5 21	17 39.17	-31 27.0	2.461	3.397	7.7	21.3	5 21	17 37.35	-22 56.9	1.015	1.980	12.3	19.5
5 31	17 30.63	-32 6.1	2.426	3.410	4.8	21.1	5 31	17 30.22	-22 7.6	0.966	1.966	6.9	19.1
6 10	17 21.10	-32 37.0	2.418	3.423	2.9	21.0	6 10	17 21.12	-21 13.5	0.938	1.953	1.3	18.7
6 20	17 11.44	-32 58.5	2.439	3.436	4.0	21.1	6 20	17 11.60	-20 18.3	0.933	1.941	5.5	18.9
6 30	17 2.51	-33 10.7	2.489	3.448	6.6	21.3	6 30	17 3.39	-19 27.5	0.950	1.931	11.4	19.2
7 10	16 55.10	-33 15.5	2.564	3.460	9.3	21.5	7 10	16 57.90	-18 46.1	0.987	1.922	16.7	19.5
7 20	16 49.70	-33 15.3	2.663	3.471	11.6	21.6	7 20	16 55.88	-18 17.1	1.040	1.914	21.2	19.7
<b>236619</b>	2006 <i>KD</i>		6 11.5 9°31	7°1/11.4 17			<b>12931</b>	Mario		6 11.5 176°96	1°4/11.3 18		
5 11	17 47.03	-35 54.1	1.477	2.353	15.5	19.0	5 11	17 43.90	-19 32.6	1.850	2.733	12.5	18.2
5 21	17 41.19	-37 22.6	1.419	2.354	12.2	18.7	5 21	17 38.01	-19 28.8	1.782	2.733	9.0	17.9
5 31	17 32.26	-38 40.1	1.382	2.356	8.9	18.6	5 31	17 30.12	-19 26.2	1.738	2.733	5.1	17.7
6 10	17 21.35	-39 39.3	1.369	2.360	7.1	18.5	6 10	17 21.08	-19 24.9	1.720	2.733	1.5	17.5
6 20	17 9.98	-40 15.9	1.380	2.363	8.2	18.5	6 20	17 11.86	-19 25.2	1.729	2.733	4.0	17.6
6 30	16 59.84	-40 29.7	1.415	2.368	11.1	18.7	6 30	17 3.52	-19 27.9	1.764	2.733	8.0	17.9
7 10	16 52.36	-40 25.3	1.472	2.373	14.4	18.9	7 10	16 56.92	-19 34.0	1.824	2.733	11.7	18.1
7 20	16 48.33	-40 8.6	1.547	2.380	17.5	19.1	7 20	16 52.64	-19 44.0	1.904	2.733	14.8	18.3
<b>239937</b>	2000 <i>YP</i> <sub>82</sub>		6 11.5 197°46	2°1/11.3 18			<b>211991</b>	2005 <i>AQ</i> <sub>60</sub>		6 11.5 195°70	1°2/11.4 17		
5 11	17 42.13	-14 32.6	2.885	3.748	9.1	21.0	5 11	17 47.61	-19 58.1	1.696	2.577	13.6	21.0
5 21	17 36.18	-14 44.0	2.806	3.745	6.7	20.8	5 21	17 40.86	-19 58.1	1.625	2.576	9.8	20.7
5 31	17 28.92	-14 59.4	2.754	3.742	4.0	20.6	5 31	17 31.79	-19 58.9	1.578	2.573	5.5	20.5
6 10	17 20.89	-15 18.8	2.730	3.738	2.1	20.5	6 10	17 21.32	-20 0.4	1.557	2.571	1.4	20.2
6 20	17 12.70	-15 41.9	2.736	3.734	3.4	20.6	6 20	17 10.60	-20 2.7	1.562	2.567	4.3	20.4
6 30	17 5.01	-16 8.5	2.770	3.729	6.0	20.7	6 30	17 0.86	-20 6.4	1.594	2.564	8.7	20.7
7 10	16 58.39	-16 38.1	2.832	3.724	8.6	20.9	7 10	16 53.12	-20 12.9	1.650	2.559	12.7	20.9
7 20	16 53.29	-17 10.4	2.917	3.719	10.9	21.1	7 20	16 48.01	-20 23.1	1.727	2.555	16.1	21.1
<b>88297</b>	Huikilolani		6 11.5 337°86	2°0/11.1 17			<b>196919</b>	2003 <i>TP</i> <sub>54</sub>		6 11.5 319°54	3°8/10.9 17		
5 11	17 41.45	-21 51.7	0.970	1.887	18.0	19.1	5 11	17 42.71	-13 40.9	1.808	2.689	12.9	20.2
5 21	17 37.60	-21 7.8	0.907	1.874	13.1	18.8	5 21	17 37.16	-13 21.0	1.740	2.687	9.5	20.0
5 31	17 30.41	-20 19.5	0.862	1.863	7.4	18.5	5 31	17 29.66	-13 6.9	1.696	2.685	6.1	19.8
6 10	17 21.12	-19 29.5	0.838	1.852	2.2	18.1	6 10	17 21.03	-13 0.2	1.677	2.683	3.8	19.6
6 20	17 11.40	-18 42.1	0.836	1.843	6.2	18.3	6 20	17 12.23	-13 2.0	1.685	2.681	5.5	19.7
6 30	17 3.10	-18 2.3	0.854	1.835	12.2	18.6	6 30	17 4.25	-13 12.7	1.718	2.679	8.9	19.9
7 10	16 57.73	-17 34.5	0.891	1.829	17.7	18.9	7 10	16 57.97	-13 32.0	1.775	2.677	12.3	20.1
7 20	16 56.05	-17 20.4	0.944	1.824	22.4	19.2	7 20	16 53.94	-13 59.1	1.853	2.676	15.4	20.3
<b>144678</b>	2004 <i>FG</i> <sub>137</sub>		6 11.5 226°41	2°9/11.9 17			<b>63087</b>	2000 <i>WC</i> <sub>137</sub>		6			



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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>465831</b>	2010 JX <sub>10</sub>		6 11.5 292°13	15°9/12.8	18		<b>62517</b>	2000 SY <sub>244</sub>		6 11.5 136°15	1°0/11.4	18	
5 11	18 0.84	-56 37.3	1.482	2.268	19.9	20.4	5 11	17 45.44	-20 23.3	1.906	2.786	12.4	20.0
5 21	17 53.16	-58 2.7	1.399	2.242	18.2	20.2	5 21	17 39.01	-20 21.7	1.843	2.793	8.8	19.8
5 31	17 39.87	-59 0.0	1.333	2.215	16.7	20.0	5 31	17 30.64	-20 20.5	1.804	2.800	4.9	19.5
6 10	17 22.48	-59 15.6	1.286	2.188	15.9	19.9	6 10	17 21.18	-20 19.5	1.792	2.806	1.2	19.3
6 20	17 3.86	-58 40.9	1.258	2.161	16.2	19.8	6 20	17 11.61	-20 19.0	1.807	2.812	3.8	19.5
6 30	16 47.50	-57 16.6	1.249	2.134	17.6	19.9	6 30	17 2.95	-20 19.8	1.849	2.818	7.7	19.7
7 10	16 36.06	-55 13.6	1.259	2.108	19.8	19.9	7 10	16 56.07	-20 23.0	1.916	2.824	11.3	20.0
7 20	16 30.58	-52 47.0	1.285	2.081	22.3	20.0	7 20	16 51.48	-20 29.5	2.004	2.829	14.3	20.2
<b>242715</b>	2005 UM <sub>79</sub>		6 11.5 238°66	1°6/11.7	18		<b>463399</b>	2013 GD <sub>89</sub>		6 11.5 16°44	7°4/10.5	17	
5 11	17 43.84	-27 23.7	2.746	3.612	9.5	20.9	5 11	17 42.80	-10 40.9	1.076	1.978	17.9	20.5
5 21	17 37.65	-27 51.2	2.657	3.599	6.9	20.7	5 21	17 37.99	-9 42.4	1.028	1.981	13.7	20.2
5 31	17 29.86	-28 15.6	2.595	3.585	4.1	20.5	5 31	17 30.37	-8 56.0	0.998	1.984	9.6	20.0
6 10	17 21.07	-28 35.4	2.560	3.571	1.7	20.3	6 10	17 21.16	-8 26.9	0.990	1.989	7.4	19.9
6 20	17 11.99	-28 49.7	2.554	3.557	3.1	20.4	6 20	17 11.81	-8 18.4	1.003	1.994	9.2	20.0
6 30	17 3.43	-28 58.5	2.578	3.543	6.1	20.6	6 30	17 3.85	-8 31.3	1.038	2.000	13.2	20.3
7 10	16 56.12	-29 3.0	2.628	3.528	8.9	20.7	7 10	16 58.45	-9 3.4	1.092	2.006	17.3	20.5
7 20	16 50.57	-29 4.8	2.701	3.512	11.4	20.9	7 20	16 56.21	-9 50.5	1.163	2.014	20.9	20.8
<b>512948</b>	2017 CD <sub>32</sub>		6 11.5 271°38	7°7/11.8	18		<b>266333</b>	2007 DJ <sub>42</sub>		6 11.5 87°05	2°2/11.9	17	
5 11	17 43.55	+ 3 46.6	2.481	3.292	12.1	21.1	5 11	17 47.43	-28 48.4	1.661	2.541	13.9	20.7
5 21	17 37.35	+ 3 38.8	2.402	3.282	10.2	20.9	5 21	17 40.69	-28 53.6	1.606	2.554	10.1	20.5
5 31	17 29.64	+ 3 13.9	2.346	3.271	8.6	20.8	5 31	17 31.62	-28 51.3	1.575	2.567	5.9	20.3
6 10	17 21.03	+ 2 30.3	2.316	3.261	7.7	20.7	6 10	17 21.31	-28 40.1	1.568	2.580	2.3	20.1
6 20	17 12.22	+ 1 28.1	2.312	3.251	8.2	20.7	6 20	17 10.98	-28 20.3	1.588	2.593	4.3	20.3
6 30	17 3.95	+ 0 9.1	2.336	3.240	9.7	20.8	6 30	17 1.89	-27 54.4	1.634	2.606	8.3	20.5
7 10	16 56.90	- 1 23.3	2.385	3.230	11.7	20.9	7 10	16 55.01	-27 26.0	1.704	2.618	12.1	20.8
7 20	16 51.56	- 3 5.0	2.456	3.219	13.7	21.1	7 20	16 50.85	-26 58.9	1.795	2.631	15.3	21.0
<b>77422</b>	2001 GH		6 11.5 92°27	1°2/11.7	18		<b>138701</b>	2000 SJ <sub>80</sub>		6 11.5 325°36	0°5/11.6	18	
5 11	17 48.32	-26 19.9	1.533	2.417	14.6	19.4	5 11	17 42.44	-24 48.6	1.940	2.824	12.0	19.7
5 21	17 41.38	-26 21.0	1.480	2.432	10.5	19.1	5 21	17 37.02	-24 48.2	1.866	2.817	8.6	19.5
5 31	17 32.01	-26 16.4	1.451	2.446	5.9	18.9	5 31	17 29.62	-24 44.7	1.815	2.811	4.8	19.2
6 10	17 21.34	-26 5.1	1.447	2.461	1.5	18.7	6 10	17 21.06	-24 37.4	1.790	2.805	0.9	18.9
6 20	17 10.68	-25 47.7	1.469	2.475	4.2	18.9	6 20	17 12.28	-24 26.7	1.792	2.799	3.5	19.1
6 30	17 1.35	-25 26.5	1.516	2.489	8.7	19.2	6 30	17 4.31	-24 13.9	1.821	2.793	7.5	19.4
7 10	16 54.35	-25 4.9	1.588	2.503	12.7	19.4	7 10	16 58.04	-24 1.0	1.874	2.788	11.2	19.6
7 20	16 50.23	-24 46.0	1.679	2.517	16.1	19.7	7 20	16 54.03	-23 50.0	1.948	2.783	14.3	19.8
<b>179338</b>	2001 XX <sub>45</sub>		6 11.5 132°16	5°6/13.2	18		<b>382115</b>	2011 HG <sub>33</sub>		6 11.5 237°06	9°2/10.2	18	
5 11	17 47.81	-42 9.8	2.521	3.350	11.4	20.3	5 11	17 57.66	-44 10.9	2.045	2.864	14.0	20.6
5 21	17 40.57	-42 23.9	2.456	3.358	9.2	20.2	5 21	17 49.05	-46 13.8	1.969	2.855	11.8	20.5
5 31	17 31.43	-42 24.0	2.414	3.366	7.0	20.1	5 31	17 36.90	-48 3.8	1.916	2.844	10.0	20.3
6 10	17 21.26	-42 7.9	2.399	3.374	5.7	20.0	6 10	17 22.10	-49 31.9	1.889	2.834	9.2	20.3
6 20	17 11.09	-41 35.3	2.410	3.381	6.0	20.0	6 20	17 6.13	-50 31.3	1.889	2.823	10.0	20.3
6 30	17 1.93	-40 48.7	2.448	3.388	7.7	20.1	6 30	16 50.88	-51 0.5	1.914	2.811	11.8	20.4
7 10	16 54.59	-39 52.1	2.512	3.395	9.9	20.3	7 10	16 38.11	-51 3.7	1.962	2.800	14.1	20.5
7 20	16 49.57	-38 50.6	2.599	3.402	12.0	20.5	7 20	16 28.99	-50 48.5	2.030	2.788	16.4	20.6
<b>280629</b>	2004 XK <sub>128</sub>		6 11.5 233°11	0°2/11.5	17		<b>355672</b>	2008 EJ <sub>137</sub>		6 11.5 158°21	4°9/10.3	18	
5 11	17 44.83	-24 19.8	1.987	2.866	12.0	21.1	5 11	17 40.48	- 5 7.3	3.059	3.901	9.3	22.1
5 21	17 38.66	-24 11.0	1.910	2.860	8.6	20.9	5 21	17 34.86	- 4 34.3	2.996	3.909	7.3	22.0
5 31	17 30.50	-23 58.8	1.857	2.853	4.8	20.6	5 31	17 28.15	- 4 9.1	2.959	3.916	5.6	21.9
6 10	17 21.16	-23 42.9	1.831	2.846	0.7	20.3	6 10	17 20.85	- 3 53.4	2.950	3.923	4.9	21.8
6 20	17 11.61	-23 24.0	1.832	2.839	3.5	20.5	6 20	17 13.51	- 3 48.1	2.968	3.929	5.6	21.9
6 30	17 2.88	-23 3.8	1.861	2.831	7.6	20.8	6 30	17 6.69	- 3 53.6	3.014	3.934	7.2	22.0
7 10	16 55.87	-22 44.5	1.914	2.823	11.2	21.0	7 10	17 0.86	- 4 9.1	3.086	3.939	9.1	22.1
7 20	16 51.16	-22 28.4	1.988	2.815	14.3	21.2	7 20	16 56.38	- 4 33.5	3.180	3.944	10.9	22.3
<b>501177</b>	2013 TK <sub>96</sub>		6 11.5 320°17	5°5/10.0	17		<b>491571</b>	2012 RW <sub>11</sub>		6 11.5 298°18	7°2/ 9.2	16	
5 11	17 42.81	-14 2.8	1.410	2.303	15.1	20.9	5 11	17 42.86	- 8 24.3	1.717	2.590	13.8	21.7
5 21	17 37.67	-12 50.1	1.341	2.293	11.3	20.6	5 21	17 37.60	- 7 11.5	1.623	2.557	11.0	21.5
5 31	17 30.11	-11 40.9	1.295	2.283	7.5	20.4	5 31	17 30.13	- 6 4.7	1.552	2.524	8.3	21.2
6 10	17 21.12	-10 40.0	1.272	2.274	5.5	20.3	6 10	17 21.16	- 5 9.3	1.505	2.491	7.2	21.1
6 20	17 11.87	- 9 52.1	1.274	2.265	7.6	20.3	6 20	17 11.66	- 4 29.6	1.484	2.457	8.8	21.1
6 30	17 3.65	- 9 20.8	1.300	2.257	11.5	20.5	6 30	17 2.77	- 4 9.1	1.487	2.423	12.0	21.2
7 10	16 57.53	- 9 7.3	1.346	2.249	15.4	20.8	7 10	16 55.53	- 4 8.6	1.511	2.389	15.5	21.3
7 20	16 54.14	- 9 10.5	1.411	2.242	18.9	21.0	7 20	16 50.68	- 4 26.8	1.554	2.356	18.8	21.5
<b>502671</b>	2015 CZ <sub>53</sub>		6 11.5 182°97	5°5/10.6	17		<b>91838</b>	1999 TF <sub>314</sub>		6 11.5 272°13	3°7/10.9	18	
5 11	17 43.59	- 8 52.4	1.989	2.855	12.5	21.6	5 11	17 41.34	-11 19.5	2.479	3.345	10.4	20.3
5 21	17 37.59	- 8 17.4	1.923	2.855	9.6	21.4	5 21	17 35.89	-11 7.6	2.388	3.324	7.8	20.1
5 31	17 29.83	- 7 51.0	1.880	2.855	6.9	21.3	5 31	17 28.92	-11 1.7	2.321	3.303	5.3	19.9
6 10	17 21.07	- 7 35.6	1.864	2.855	5.5	21.2	6 10	17 20.98	-11 2.9	2.282	3.281	3.7	19.7
6 20	17 12.17	- 7 32.9	1.874	2.854	6.6	21.2	6 20	17 12.76	-11 12.1	2.270	3.259	4.9	19.8
6 30	17 4.05	- 7 43.2	1.910	2.853	9.3	21.4	6 30	17 5.02	-11 29.5	2.286	3.238	7.5	19.9
7 10	16 57.48	- 8 5.6	1.970	2.852	12.3	21.6	7 10	16 58.46	-11 54.6	2.327	3.215	10.4	20.0
7 20	16 52.98	- 8 38.5	2.051	2.850	14.9	21.8	7 20	16 53.59	-12 26.7	2.391	3.193	13.0	20.2
<b>197599</b>	2004 JY <sub>2</sub>		6 11.5 345°45	0°3/11.5	17		<b>130418</b>	2000 OV <sub>60</sub>		6 11.5 287°54	3°3/10.9	18	
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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>275250</b>	2009 <i>XN</i> <sub>16</sub>		6 11.5 211°27'	1.3°/11.3	18		<b>10252</b>	Heidigraf		6 11.5 305°37'	1.0°/11.7	18	R
5 11	17 44.77	-19 40.9	1.997	2.876	11.9	21.2	5 11	17 43.73	-25 33.1	1.884	2.767	12.4	17.5
5 21	17 38.57	-19 36.1	1.923	2.872	8.6	21.0	5 21	17 38.03	-25 41.5	1.809	2.760	8.9	17.3
5 31	17 30.45	-19 32.1	1.873	2.867	4.8	20.8	5 31	17 30.24	-25 46.3	1.758	2.753	5.0	17.0
6 10	17 21.18	-19 28.9	1.849	2.863	1.4	20.5	6 10	17 21.18	-25 46.6	1.733	2.747	1.2	16.8
6 20	17 11.70	-19 27.0	1.853	2.858	3.8	20.7	6 20	17 11.88	-25 42.2	1.734	2.741	3.7	16.9
6 30	17 3.01	-19 27.2	1.885	2.853	7.7	20.9	6 30	17 3.41	-25 34.0	1.762	2.735	7.8	17.2
7 10	16 55.97	-19 30.5	1.941	2.847	11.3	21.1	7 10	16 56.73	-25 24.3	1.815	2.729	11.5	17.4
7 20	16 51.14	-19 37.7	2.019	2.841	14.3	21.3	7 20	16 52.44	-25 15.4	1.888	2.723	14.7	17.6
<b>93958</b>	2000 <i>WP</i> <sub>187</sub>		6 11.5 82°25'	7.3°/12.9	18		<b>142354</b>	2002 <i>RL</i> <sub>217</sub>		6 11.5 290°60'	0.7°/11.6	17	
5 11	17 50.24	-41 27.0	1.758	2.605	14.8	18.7	5 11	17 45.79	-24 55.9	1.469	2.360	14.7	20.6
5 21	17 43.05	-42 6.1	1.699	2.613	11.9	18.6	5 21	17 40.09	-24 56.8	1.389	2.344	10.7	20.3
5 31	17 33.08	-42 28.1	1.662	2.621	9.1	18.4	5 31	17 31.64	-24 53.6	1.331	2.328	6.0	20.0
6 10	17 21.53	-42 28.3	1.650	2.628	7.4	18.3	6 10	17 21.40	-24 45.3	1.297	2.312	1.1	19.6
6 20	17 9.86	-42 5.5	1.662	2.636	7.9	18.4	6 20	17 10.67	-24 31.8	1.288	2.296	4.5	19.8
6 30	16 59.60	-41 22.7	1.699	2.644	10.1	18.5	6 30	17 0.94	-24 15.0	1.305	2.280	9.6	20.1
7 10	16 51.90	-40 26.1	1.759	2.652	12.9	18.7	7 10	16 53.47	-23 58.0	1.343	2.264	14.2	20.3
7 20	16 47.38	-39 22.7	1.839	2.659	15.6	18.9	7 20	16 49.06	-23 43.9	1.401	2.248	18.2	20.5
<b>190117</b>	2004 <i>VB</i> <sub>57</sub>		6 11.5 283°56'	1.0°/11.5	18		<b>50586</b>	2000 <i>EP</i> <sub>43</sub>		6 11.5 120°40'	3.1°/11.1	17	
5 11	17 47.85	-23 26.7	1.831	2.709	12.9	19.8	5 11	17 46.08	-15 59.7	1.760	2.639	13.2	19.9
5 21	17 41.40	-24 10.6	1.731	2.679	9.4	19.6	5 21	17 39.48	-15 36.7	1.704	2.651	9.6	19.7
5 31	17 32.37	-24 56.1	1.654	2.649	5.3	19.2	5 31	17 30.91	-15 17.5	1.672	2.663	5.8	19.5
6 10	17 21.48	-25 40.3	1.604	2.618	1.3	18.9	6 10	17 21.26	-15 3.4	1.666	2.675	3.1	19.4
6 20	17 9.81	-26 20.6	1.581	2.587	4.2	19.0	6 20	17 11.59	-14 55.5	1.686	2.685	5.0	19.5
6 30	16 58.66	-26 55.3	1.586	2.555	8.7	19.2	6 30	17 2.94	-14 54.8	1.733	2.696	8.7	19.7
7 10	16 49.28	-27 25.0	1.615	2.523	13.0	19.4	7 10	16 56.16	-15 1.5	1.804	2.706	12.2	20.0
7 20	16 42.58	-27 51.4	1.665	2.491	16.7	19.6	7 20	16 51.76	-15 15.5	1.896	2.716	15.2	20.2
<b>478</b>	Tergeste		6 11.5 141°19'	2.7°/10.7	18		<b>149123</b>	2002 <i>EW</i> <sub>15</sub>		6 11.5 174°67'	1.2°/11.9	18	
5 11	17 42.29	-16 40.7	2.331	3.205	10.6	13.0	5 11	17 43.22	-28 10.5	2.592	3.460	9.9	20.5
5 21	17 36.44	-15 55.3	2.266	3.210	7.7	12.8	5 21	17 37.12	-27 59.2	2.518	3.461	7.2	20.3
5 31	17 29.12	-15 11.4	2.225	3.215	4.7	12.7	5 31	17 29.52	-27 42.5	2.470	3.462	4.1	20.1
6 10	17 21.00	-14 30.9	2.213	3.220	2.7	12.5	6 10	17 21.08	-27 20.1	2.450	3.463	1.4	19.9
6 20	17 12.84	-13 55.6	2.228	3.224	4.3	12.6	6 20	17 12.57	-26 52.8	2.459	3.464	3.0	20.1
6 30	17 5.41	-13 27.5	2.271	3.228	7.3	12.8	6 30	17 4.77	-26 22.1	2.496	3.464	6.1	20.3
7 10	16 59.36	-13 7.5	2.340	3.232	10.2	13.0	7 10	16 58.35	-25 50.6	2.560	3.464	8.9	20.4
7 20	16 55.12	-12 56.1	2.430	3.236	12.7	13.2	7 20	16 53.74	-25 20.4	2.646	3.464	11.4	20.6
<b>2909</b>	Hoshi-no-ie		6 11.5 263°71'	0.5°/11.5	18		<b>219422</b>	2000 <i>SY</i> <sub>335</sub>		6 11.5 202°28'	0.9°/11.6	18	
5 11	17 43.34	-20 33.1	2.257	3.133	10.8	16.0	5 11	17 46.25	-25 3.4	2.150	3.023	11.4	21.0
5 21	17 37.48	-20 53.8	2.174	3.122	7.8	15.8	5 21	17 39.62	-25 18.8	2.073	3.019	8.2	20.8
5 31	17 29.85	-21 15.9	2.116	3.111	4.3	15.6	5 31	17 31.05	-25 31.5	2.021	3.015	4.6	20.5
6 10	17 21.11	-21 38.4	2.086	3.100	0.7	15.3	6 10	17 21.30	-25 40.1	1.996	3.010	1.1	20.3
6 20	17 12.08	-22 0.6	2.083	3.089	3.3	15.5	6 20	17 11.32	-25 44.1	2.000	3.005	3.4	20.4
6 30	17 3.66	-22 22.2	2.109	3.078	6.9	15.7	6 30	17 2.10	-25 44.1	2.031	3.000	7.2	20.7
7 10	16 56.65	-22 43.5	2.160	3.066	10.3	15.9	7 10	16 54.51	-25 41.9	2.088	2.994	10.6	20.9
7 20	16 51.63	-23 5.2	2.234	3.055	13.2	16.0	7 20	16 49.14	-25 39.4	2.167	2.987	13.5	21.0
<b>382323</b>	2013 <i>TW</i> <sub>3</sub>		6 11.5 148°85'	8.6°/8.8	18		<b>497454</b>	2005 <i>YN</i> <sub>59</sub>		6 11.5 190°56'	0.9°/11.7	17	
5 11	17 43.69	- 0 31.4	2.120	2.957	13.0	21.0	5 11	17 46.58	-26 39.1	2.525	3.389	10.2	24.0
5 21	17 37.48	+ 0 53.2	2.066	2.965	10.8	20.9	5 21	17 39.56	-26 32.3	2.446	3.387	7.4	23.8
5 31	17 29.70	+ 2 4.4	2.037	2.972	9.1	20.8	5 31	17 30.90	-26 20.9	2.393	3.385	4.2	23.6
6 10	17 21.08	+ 2 57.6	2.033	2.979	8.6	20.8	6 10	17 21.29	-26 4.2	2.368	3.382	1.1	23.4
6 20	17 12.43	+ 3 30.1	2.055	2.985	9.5	20.9	6 20	17 11.54	-25 42.9	2.373	3.378	3.0	23.5
6 30	17 4.55	+ 3 40.9	2.101	2.991	11.2	21.0	6 30	17 2.53	-25 18.4	2.407	3.373	6.3	23.7
7 10	16 58.14	+ 3 31.4	2.169	2.997	13.3	21.1	7 10	16 54.97	-24 52.9	2.467	3.368	9.4	23.9
7 20	16 53.65	+ 3 4.8	2.257	3.002	15.3	21.3	7 20	16 49.36	-24 28.8	2.551	3.361	12.0	24.1
<b>191754</b>	2004 <i>SC</i> <sub>52</sub>		6 11.5 275°48'	5.9°/9.9	17		<b>375739</b>	2009 <i>RF</i> <sub>54</sub>		6 11.5 162°18'	0.4°/11.6	17	
5 11	17 43.16	-10 0.5	1.849	2.722	13.0	20.3	5 11	17 46.43	-24 6.2	1.924	2.801	12.4	21.7
5 21	17 37.57	- 9 0.1	1.766	2.702	10.1	20.0	5 21	17 39.82	-24 13.1	1.856	2.805	8.9	21.5
5 31	17 29.98	- 8 5.6	1.705	2.682	7.3	19.8	5 31	17 31.17	-24 17.5	1.813	2.808	4.9	21.3
6 10	17 21.15	- 7 21.1	1.671	2.662	5.9	19.7	6 10	17 21.33	-24 18.4	1.797	2.811	0.8	21.0
6 20	17 11.98	- 6 49.7	1.662	2.642	7.4	19.7	6 20	17 11.33	-24 15.7	1.808	2.814	3.6	21.2
6 30	17 3.50	- 6 33.9	1.679	2.621	10.4	19.9	6 30	17 2.26	-24 10.4	1.846	2.816	7.6	21.4
7 10	16 56.63	- 6 33.9	1.718	2.600	13.7	20.0	7 10	16 55.00	-24 4.6	1.909	2.818	11.3	21.7
7 20	16 51.99	- 6 48.7	1.778	2.579	16.8	20.2	7 20	16 50.13	-24 0.1	1.993	2.820	14.3	21.9
<b>159375</b>	1996 <i>XQ</i> <sub>31</sub>		6 11.5 221°72'	2.1°/11.4	18		<b>362649</b>	2011 <i>SV</i> <sub>222</sub>		6 11.5 188°10'	5.4°/9.7	18	
5 11	17 45.40	-16 8.5	2.163	3.035	11.4	20.6	5 11	17 40.31	- 4 54.2	2.910	3.754	9.6	21.5
5 21	17 38.96	-16 20.5	2.082	3.026	8.3	20.4	5 21	17 34.84	- 4 3.0	2.841	3.754	7.7	21.4
5 31	17 30.67	-16 36.8	2.026	3.017	4.9	20.1	5 31	17 28.20	- 3 19.6	2.798	3.752	6.1	21.3
6 10	17 21.24	-16 57.2	1.997	3.008	2.1	19.9	6 10	17 20.92	- 2 46.2	2.782	3.751	5.4	21.2
6 20	17 11.51	-17 21.1	1.996	2.998	4.0	20.1	6 20	17 13.56	- 2 24.4	2.793	3.748	6.2	21.3
6 30	17 2.44	-17 48.3	2.024	2.988	7.5	20.2	6 30	17 6.71	- 2 15.2	2.832	3.746	7.8	21.4
7 10	16 54.85	-18 18.5	2.077	2.977	10.9	20.4	7 10	17 0.88	- 2 18.2	2.895	3.743	9.8	21.5
7 20	16 49.32	-18 51.4	2.152	2.965	13.8	20.6	7 20	16 56.46	- 2 32.1	2.980	3.740	11.6	21.6
<b>31823</b>	Vietà		6 11.5 161°31'	7.2°/12.5	18		<b>42073</b>	Noreen		6 11.5 103°06'	4.8°/1		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>55418</b>	Bianciardi		6 11.5 245°89	2.4/10.8	18		<b>449981</b>	2015 PQ75		6 11.5 343°69	3.5/12.4	16	
5 11	17 42.60	-18 4.0	2.247	3.123	10.9	18.8	5 11	17 44.34	-33 56.0	2.099	2.965	12.0	21.2
5 21	17 36.84	-17 21.6	2.168	3.115	7.9	18.6	5 21	17 38.38	-33 59.5	2.027	2.963	9.0	21.0
5 31	17 29.45	-16 39.2	2.114	3.106	4.7	18.4	5 31	17 30.41	-33 52.8	1.978	2.961	5.9	20.8
6 10	17 21.11	-15 58.6	2.087	3.097	2.4	18.2	6 10	17 21.31	-33 34.5	1.955	2.959	3.7	20.7
6 20	17 12.63	-15 21.9	2.088	3.087	4.2	18.3	6 20	17 12.08	-33 4.6	1.960	2.957	4.6	20.7
6 30	17 4.83	-14 51.0	2.117	3.078	7.5	18.5	6 30	17 3.77	-32 25.3	1.991	2.956	7.5	20.9
7 10	16 58.45	-14 27.7	2.172	3.069	10.6	18.7	7 10	16 57.25	-31 40.6	2.047	2.955	10.7	21.1
7 20	16 53.97	-14 12.6	2.248	3.059	13.4	18.9	7 20	16 53.06	-30 54.5	2.125	2.954	13.5	21.3
<b>343928</b>	2011 KY <sub>9</sub>		6 11.5 302°34	0°6/11.5	18		<b>260802</b>	2005 NG <sub>115</sub>		6 11.5 171°90	1°2/11.4	17	
5 11	17 45.30	-22 19.7	1.682	2.568	13.4	20.4	5 11	17 46.62	-20 6.2	1.898	2.775	12.5	21.6
5 21	17 39.50	-22 59.8	1.602	2.555	9.7	20.1	5 21	17 39.96	-20 1.9	1.829	2.778	9.0	21.3
5 31	17 31.25	-23 41.6	1.545	2.541	5.4	19.8	5 31	17 31.28	-19 58.1	1.786	2.781	5.0	21.1
6 10	17 21.39	-24 22.8	1.514	2.528	0.9	19.5	6 10	17 21.43	-19 54.7	1.768	2.782	1.3	20.8
6 20	17 11.03	-25 0.9	1.509	2.515	4.1	19.7	6 20	17 11.43	-19 52.1	1.779	2.784	3.9	21.0
6 30	17 1.45	-25 34.9	1.530	2.503	8.7	19.9	6 30	17 2.32	-19 51.1	1.816	2.785	7.9	21.3
7 10	16 53.81	-26 5.1	1.575	2.490	12.8	20.1	7 10	16 55.00	-19 52.9	1.879	2.785	11.6	21.5
7 20	16 48.87	-26 32.9	1.640	2.478	16.4	20.3	7 20	16 50.03	-19 58.6	1.962	2.785	14.7	21.7
<b>332331</b>	2007 BL <sub>1</sub>		6 11.5 236°22	1°8/11.3	17		<b>343162</b>	2009 PY <sub>4</sub>		6 11.5 4°71	11°0/13.9	17	
5 11	17 46.43	-17 58.8	1.965	2.840	12.2	21.5	5 11	17 50.58	-42 57.4	0.937	1.819	21.7	19.9
5 21	17 39.92	-18 1.1	1.880	2.827	8.9	21.2	5 21	17 45.08	-43 39.0	0.885	1.818	17.8	19.7
5 31	17 31.32	-18 6.1	1.820	2.813	5.1	21.0	5 31	17 34.92	-43 51.6	0.850	1.818	13.9	19.4
6 10	17 21.39	-18 13.6	1.786	2.799	1.9	20.7	6 10	17 21.95	-43 26.1	0.833	1.819	11.3	19.3
6 20	17 11.10	-18 23.7	1.780	2.783	4.1	20.8	6 20	17 8.75	-42 20.6	0.835	1.820	11.7	19.3
6 30	17 1.51	-18 36.6	1.802	2.768	8.1	21.1	6 30	16 58.01	-40 42.8	0.858	1.822	14.7	19.5
7 10	16 53.58	-18 52.9	1.848	2.751	11.9	21.3	7 10	16 51.52	-38 47.3	0.898	1.826	18.7	19.7
7 20	16 47.95	-19 12.8	1.916	2.734	15.1	21.4	7 20	16 49.88	-36 48.4	0.955	1.829	22.6	20.0
<b>70981</b>	1999 XE <sub>25</sub>		6 11.5 118°27	1°6/11.3	18		<b>185300</b>	2006 UD <sub>261</sub>		6 11.5 134°38	2°0/10.9	18	
5 11	17 43.84	-19 24.1	1.857	2.740	12.5	18.8	5 11	17 42.14	-17 55.9	2.622	3.493	9.7	20.1
5 21	17 37.98	-19 13.2	1.790	2.741	9.0	18.6	5 21	17 36.24	-17 23.3	2.559	3.503	7.0	20.0
5 31	17 30.17	-19 3.1	1.747	2.742	5.1	18.3	5 31	17 29.03	-16 51.6	2.522	3.513	4.1	19.8
6 10	17 21.22	-18 54.6	1.730	2.743	1.7	18.1	6 10	17 21.12	-16 22.0	2.512	3.523	2.0	19.7
6 20	17 12.13	-18 48.1	1.740	2.744	4.1	18.3	6 20	17 13.20	-15 55.7	2.532	3.532	3.5	19.8
6 30	17 3.91	-18 44.9	1.776	2.745	8.0	18.5	6 30	17 5.95	-15 34.2	2.580	3.540	6.3	20.0
7 10	16 57.43	-18 46.0	1.837	2.746	11.6	18.7	7 10	16 59.94	-15 18.4	2.655	3.549	9.0	20.2
7 20	16 53.24	-18 51.9	1.919	2.747	14.7	18.9	7 20	16 55.57	-15 8.8	2.752	3.557	11.4	20.4
<b>488434</b>	2016 XE <sub>22</sub>		6 11.5 239°64	7°5/10.0	18		<b>384896</b>	2012 TT <sub>27</sub>		6 11.5 321°95	1°8/11.8	17	
5 11	17 40.72	+ 5 21.2	3.042	3.839	10.4	22.0	5 11	17 44.44	-27 40.1	1.629	2.516	13.7	20.4
5 21	17 35.18	+ 5 46.9	2.961	3.823	9.0	21.9	5 21	17 38.87	-27 43.2	1.556	2.508	10.0	20.1
5 31	17 28.44	+ 5 59.1	2.903	3.807	7.9	21.8	5 31	17 30.87	-27 40.0	1.505	2.500	5.8	19.8
6 10	17 20.99	+ 5 55.6	2.871	3.791	7.5	21.7	6 10	17 21.40	-27 29.2	1.480	2.493	2.0	19.6
6 20	17 13.37	+ 5 35.5	2.865	3.774	7.9	21.7	6 20	17 11.64	-27 10.8	1.479	2.486	4.3	19.7
6 30	17 6.17	+ 4 58.9	2.884	3.756	9.1	21.8	6 30	17 2.89	-26 47.0	1.505	2.479	8.6	19.9
7 10	16 59.93	+ 4 7.5	2.928	3.738	10.6	21.9	7 10	16 56.23	-26 21.0	1.553	2.472	12.7	20.2
7 20	16 55.04	+ 3 4.0	2.993	3.720	12.2	22.0	7 20	16 52.32	-25 56.5	1.622	2.466	16.2	20.4
<b>37095</b>	2000 UR <sub>89</sub>		6 11.5 324°86	1°4/11.3	18		<b>374968</b>	2007 DP <sub>29</sub>		6 11.5 157°58	6°3/12.7	17	
5 11	17 41.82	-19 21.0	2.050	2.932	11.5	19.2	5 11	17 51.39	-40 2.7	1.991	2.834	13.5	21.9
5 21	17 36.46	-19 14.2	1.977	2.928	8.3	19.0	5 21	17 43.68	-40 38.4	1.926	2.839	10.7	21.8
5 31	17 29.32	-19 8.5	1.929	2.924	4.7	18.8	5 31	17 33.44	-40 59.3	1.883	2.844	8.0	21.6
6 10	17 21.13	-19 4.2	1.907	2.920	1.5	18.5	6 10	17 21.74	-41 1.6	1.866	2.849	6.4	21.5
6 20	17 12.76	-19 1.9	1.912	2.916	3.7	18.7	6 20	17 9.88	-40 43.9	1.875	2.853	6.9	21.6
6 30	17 5.13	-19 2.3	1.944	2.912	7.4	18.9	6 30	16 59.22	-40 8.4	1.911	2.856	9.2	21.7
7 10	16 59.02	-19 6.3	2.000	2.909	10.8	19.1	7 10	16 50.85	-39 20.4	1.970	2.859	11.9	21.9
7 20	16 54.98	-19 14.3	2.078	2.906	13.8	19.3	7 20	16 45.37	-38 26.1	2.051	2.862	14.5	22.1
<b>469962</b>	2006 DF <sub>43</sub>		6 11.5 123°15	1°7/11.8	17		<b>475791</b>	2006 XQ <sub>29</sub>		6 11.5 252°77	1°2/11.2	16	
5 11	17 46.00	-27 30.1	1.849	2.728	12.8	22.0	5 11	17 42.64	-20 57.1	2.384	3.259	10.4	22.2
5 21	17 39.64	-27 39.1	1.784	2.732	9.2	21.8	5 21	17 36.89	-20 29.4	2.299	3.247	7.5	22.0
5 31	17 31.13	-27 42.6	1.742	2.736	5.3	21.5	5 31	17 29.53	-20 0.2	2.239	3.234	4.2	21.8
6 10	17 21.40	-27 39.2	1.727	2.740	1.8	21.3	6 10	17 21.21	-19 30.3	2.207	3.220	1.2	21.5
6 20	17 11.52	-27 28.9	1.738	2.743	3.9	21.5	6 20	17 12.71	-19 1.0	2.203	3.207	3.4	21.7
6 30	17 2.64	-27 13.2	1.776	2.747	7.8	21.7	6 30	17 4.84	-18 34.2	2.227	3.193	6.8	21.9
7 10	16 55.69	-26 54.9	1.838	2.751	11.5	21.9	7 10	16 58.31	-18 11.6	2.277	3.179	10.0	22.0
7 20	16 51.22	-26 37.0	1.922	2.754	14.6	22.1	7 20	16 53.64	-17 54.5	2.349	3.164	12.8	22.2
<b>497999</b>	2007 EO <sub>55</sub>		6 11.5 143°05	0°3/11.5	17		<b>263418</b>	2008 DS <sub>45</sub>		6 11.5 151°32	5°9/10.2	18	
5 11	17 46.38	-22 4.8	1.872	2.751	12.6	22.1	5 11	17 40.69	- 2 16.4	2.873	3.707	10.0	21.4
5 21	17 39.81	-22 11.1	1.808	2.758	9.0	21.9	5 21	17 35.11	- 1 41.2	2.813	3.716	8.1	21.3
5 31	17 31.19	-22 16.6	1.768	2.764	5.0	21.7	5 31	17 28.39	- 1 16.1	2.779	3.724	6.5	21.2
6 10	17 21.41	-22 20.6	1.755	2.770	0.7	21.4	6 10	17 21.05	- 1 2.8	2.771	3.731	5.9	21.1
6 20	17 11.49	-22 22.9	1.769	2.775	3.7	21.6	6 20	17 13.66	- 1 2.4	2.790	3.738	6.5	21.2
6 30	17 2.52	-22 24.4	1.810	2.780	7.8	21.9	6 30	17 6.82	- 1 14.9	2.836	3.745	8.0	21.3
7 10	16 55.37	-22 26.5	1.875	2.785	11.4	22.1	7 10	17 1.03	- 1 39.3	2.906	3.751	9.8	21.4
7 20	16 50.62	-22 30.6	1.962	2.789	14.5	22.3	7 20	16 56.66	- 2 13.7	2.999	3.757	11.6	21.6
<b>13203</b>	1997 FC <sub>5</sub>		6 11.5 258°29	3°6/10.9	18		<b>59378</b>	1999 FV <sub>3</sub>		6 11.5 197°41	1°1/11.3	18	
5 11	17 43.15												

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>192774</b>	1999 UY <sub>12</sub>		6 11.5 228°81	3°4/10.7 18			<b>247166</b>	2000 YW <sub>135</sub>		6 11.6 230°18	4°2/12.7 18		
5 11	17 43.80	-13 51.0	2.434	3.301	10.5	21.4	5 11	17 46.18	-38 58.5	3.031	3.864	9.6	22.0
5 21	17 37.66	-13 16.3	2.349	3.287	7.8	21.2	5 21	17 39.37	-39 11.7	2.940	3.851	7.5	21.8
5 31	17 29.94	-12 44.6	2.289	3.273	5.0	21.0	5 31	17 30.91	-39 14.8	2.875	3.837	5.5	21.7
6 10	17 21.28	-12 17.7	2.256	3.259	3.4	20.9	6 10	17 21.48	-39 5.8	2.837	3.822	4.2	21.6
6 20	17 12.41	-11 57.2	2.252	3.244	4.7	20.9	6 20	17 11.85	-38 44.3	2.827	3.807	4.7	21.6
6 30	17 4.11	-11 44.4	2.276	3.228	7.6	21.1	6 30	17 2.87	-38 11.4	2.846	3.792	6.5	21.7
7 10	16 57.10	-11 40.0	2.326	3.211	10.5	21.2	7 10	16 55.27	-37 30.1	2.891	3.775	8.7	21.8
7 20	16 51.88	-11 43.9	2.398	3.194	13.1	21.4	7 20	16 49.55	-36 43.8	2.960	3.759	10.8	21.9
<b>349889</b>	2009 DL <sub>129</sub>		6 11.5 197°06	5°2/10.5 18			<b>213523</b>	2002 GG <sub>159</sub>		6 11.6 62°87	3°9/10.8 17		
5 11	17 41.71	- 7 52.8	2.310	3.170	11.2	21.5	5 11	17 45.75	-16 29.1	1.347	2.240	15.6	20.3
5 21	17 36.14	- 7 18.1	2.241	3.168	8.7	21.4	5 21	17 39.79	-15 41.7	1.292	2.246	11.4	20.0
5 31	17 29.08	- 6 51.4	2.196	3.166	6.4	21.2	5 31	17 31.35	-14 57.8	1.260	2.253	7.0	19.8
6 10	17 21.16	- 6 35.1	2.178	3.164	5.2	21.1	6 10	17 21.54	-14 20.3	1.251	2.260	4.0	19.6
6 20	17 13.12	- 6 30.6	2.187	3.162	6.2	21.2	6 20	17 11.66	-13 52.1	1.268	2.267	6.2	19.8
6 30	17 5.72	- 6 38.2	2.222	3.159	8.5	21.3	6 30	17 3.06	-13 35.5	1.308	2.274	10.5	20.0
7 10	16 59.61	- 6 57.4	2.282	3.157	11.1	21.5	7 10	16 56.75	-13 31.3	1.370	2.281	14.6	20.3
7 20	16 55.27	- 7 26.6	2.363	3.154	13.4	21.6	7 20	16 53.31	-13 39.0	1.451	2.289	18.2	20.5
<b>308556</b>	2005 UO <sub>314</sub>		6 11.6 210°57	3°5/11.8 18			<b>56273</b>	1999 JZ <sub>103</sub>		6 11.6 133°44	2°2/11.6 18		
5 11	17 45.87	-33 50.6	2.855	3.705	9.6	21.3	5 11	17 47.64	-15 10.8	1.915	2.786	12.7	18.9
5 21	17 39.21	-34 34.7	2.773	3.699	7.3	21.1	5 21	17 40.68	-15 40.3	1.852	2.796	9.2	18.7
5 31	17 30.84	-35 12.4	2.717	3.693	5.0	20.9	5 31	17 31.72	-16 15.8	1.813	2.805	5.4	18.5
6 10	17 21.42	-35 41.1	2.689	3.686	3.5	20.8	6 10	17 21.60	-16 56.2	1.802	2.813	2.3	18.3
6 20	17 11.71	-35 59.5	2.690	3.679	4.3	20.9	6 20	17 11.31	-17 40.1	1.819	2.822	4.2	18.4
6 30	17 2.55	-36 7.4	2.720	3.671	6.5	21.0	6 30	17 1.90	-18 26.1	1.864	2.830	7.9	18.7
7 10	16 54.72	-36 6.8	2.776	3.663	8.9	21.1	7 10	16 54.23	-19 13.1	1.934	2.837	11.4	18.9
7 20	16 48.77	-36 0.0	2.855	3.655	11.1	21.3	7 20	16 48.88	-20 0.5	2.026	2.844	14.4	19.1
<b>436980</b>	2012 TH <sub>198</sub>		6 11.6 356°87	1°2/11.8 17			<b>40732</b>	1999 SC <sub>13</sub>		6 11.6 256°21	2°2/11.7 18		
5 11	17 44.41	-26 40.6	1.733	2.618	13.2	20.9	5 11	17 44.59	-28 59.1	2.558	3.423	10.1	19.0
5 21	17 38.64	-26 36.4	1.666	2.617	9.5	20.6	5 21	17 38.43	-29 33.0	2.468	3.408	7.4	18.8
5 31	17 30.66	-26 26.7	1.621	2.616	5.4	20.4	5 31	17 30.50	-30 3.0	2.404	3.393	4.5	18.6
6 10	17 21.40	-26 10.8	1.602	2.616	1.4	20.1	6 10	17 21.45	-30 27.1	2.368	3.377	2.3	18.4
6 20	17 11.97	-25 49.4	1.609	2.615	3.9	20.3	6 20	17 12.05	-30 43.9	2.361	3.361	3.6	18.4
6 30	17 3.54	-25 24.5	1.642	2.615	8.1	20.5	6 30	17 3.19	-30 53.4	2.381	3.345	6.6	18.6
7 10	16 57.09	-24 59.2	1.699	2.616	12.0	20.8	7 10	16 55.68	-30 57.0	2.428	3.329	9.5	18.8
7 20	16 53.18	-24 36.3	1.777	2.616	15.3	21.0	7 20	16 50.10	-30 56.8	2.498	3.312	12.1	18.9
<b>235204</b>	2003 SH <sub>167</sub>		6 11.6 231°94	3°8/12.3 17			<b>507056</b>	2008 VR <sub>41</sub>		6 11.6 208°94	1°3/11.9 18		
5 11	17 46.80	-33 54.3	2.008	2.872	12.5	20.3	5 11	17 46.17	-28 0.3	2.402	3.268	10.6	22.0
5 21	17 40.28	-34 6.0	1.933	2.868	9.5	20.1	5 21	17 39.45	-27 50.5	2.320	3.262	7.7	21.8
5 31	17 31.56	-34 7.4	1.882	2.864	6.2	19.9	5 31	17 30.99	-27 34.8	2.263	3.255	4.5	21.6
6 10	17 21.54	-33 56.2	1.856	2.859	3.9	19.8	6 10	17 21.50	-27 12.7	2.234	3.247	1.4	21.4
6 20	17 11.31	-33 32.2	1.857	2.854	4.9	19.8	6 20	17 11.85	-26 44.7	2.234	3.239	3.2	21.5
6 30	17 2.05	-32 57.4	1.885	2.849	8.0	20.0	6 30	17 2.94	-26 12.6	2.262	3.230	6.6	21.7
7 10	16 54.71	-32 15.9	1.938	2.844	11.3	20.2	7 10	16 55.56	-25 39.3	2.317	3.221	9.8	21.9
7 20	16 49.90	-31 32.1	2.012	2.839	14.2	20.4	7 20	16 50.20	-25 7.3	2.395	3.211	12.5	22.1
<b>29621</b>	1998 SY <sub>141</sub>		6 11.6 302°54	0°1/11.6 18			<b>308405</b>	2005 SW <sub>83</sub>		6 11.6 330°71	0°8/11.4 17		
5 11	17 45.92	-21 53.4	1.180	2.082	16.7	19.0	5 11	17 41.42	-21 41.9	1.753	2.643	12.7	20.7
5 21	17 40.91	-22 12.4	1.097	2.057	12.2	18.7	5 21	17 36.56	-21 33.0	1.675	2.630	9.2	20.4
5 31	17 32.53	-22 33.3	1.035	2.033	6.9	18.3	5 31	17 29.59	-21 23.3	1.621	2.618	5.1	20.2
6 10	17 21.74	-22 54.2	0.994	2.009	1.0	17.9	6 10	17 21.32	-21 12.8	1.592	2.606	1.0	19.8
6 20	17 10.03	-23 13.4	0.977	1.986	5.3	18.1	6 20	17 12.76	-21 2.4	1.588	2.595	3.9	20.0
6 30	16 59.26	-23 30.7	0.983	1.962	11.3	18.3	6 30	17 5.01	-20 53.4	1.611	2.584	8.2	20.3
7 10	16 51.12	-23 47.6	1.010	1.939	16.9	18.6	7 10	16 59.03	-20 47.4	1.657	2.574	12.2	20.5
7 20	16 46.68	-24 6.0	1.053	1.917	21.7	18.8	7 20	16 55.43	-20 45.8	1.723	2.565	15.5	20.7
<b>179531</b>	2002 CD <sub>198</sub>		6 11.6 328°30	3°6/11.0 18			<b>12683</b>	1983 RP <sub>3</sub>		6 11.6 299°45	1°8/11.4 18		
5 11	17 40.67	-13 59.7	1.891	2.774	12.3	19.5	5 11	17 45.17	-19 8.4	1.475	2.367	14.6	17.6
5 21	17 35.80	-13 42.3	1.816	2.763	9.1	19.3	5 21	17 39.50	-19 2.0	1.405	2.360	10.6	17.4
5 31	17 29.07	-13 30.4	1.763	2.752	5.8	19.1	5 31	17 31.31	-18 57.6	1.357	2.353	6.0	17.1
6 10	17 21.21	-13 25.3	1.736	2.742	3.6	18.9	6 10	17 21.56	-18 55.5	1.333	2.347	1.9	16.8
6 20	17 13.11	-13 28.2	1.736	2.733	5.2	19.0	6 20	17 11.50	-18 56.1	1.335	2.341	4.8	17.0
6 30	17 5.71	-13 39.5	1.761	2.723	8.6	19.2	6 30	17 2.44	-19 0.5	1.362	2.334	9.5	17.2
7 10	16 59.87	-13 59.1	1.809	2.715	12.0	19.4	7 10	16 55.53	-19 9.7	1.411	2.329	13.9	17.5
7 20	16 56.14	-14 26.1	1.879	2.706	15.0	19.6	7 20	16 51.45	-19 24.1	1.480	2.323	17.6	17.7
<b>7285</b>	Seggewiss		6 11.6 284°40	7°5/ 9.7 18 R			<b>147241</b>	2002 XW <sub>62</sub>		6 11.6 242°95	2°3/11.9 18 R		
5 11	17 42.98	- 6 35.0	1.742	2.610	13.9	17.1	5 11	17 47.73	-29 15.5	1.756	2.632	13.4	20.1
5 21	17 37.62	- 5 32.4	1.660	2.589	11.1	16.9	5 21	17 41.19	-29 21.0	1.677	2.622	9.9	19.9
5 31	17 30.17	- 4 39.3	1.600	2.568	8.6	16.7	5 31	17 32.20	-29 18.9	1.621	2.613	5.9	19.6
6 10	17 21.39	- 4 0.4	1.566	2.547	7.5	16.5	6 10	17 21.69	-29 7.4	1.591	2.603	2.5	19.4
6 20	17 12.22	- 3 39.2	1.556	2.526	8.8	16.6	6 20	17 10.85	-28 46.2	1.588	2.593	4.4	19.5
6 30	17 3.76	- 3 37.7	1.570	2.504	11.6	16.7	6 30	17 1.01	-28 17.5	1.612	2.582	8.5	19.7
7 10	16 56.95	- 3 55.4	1.607	2.483	14.8	16.8	7 10	16 53.24	-27 45.1	1.659	2.571	12.5	19.9
7 20	16 52.46	- 4 29.8	1.662	2.461	17.8	17.0	7 20	16 48.23	-27 12.9	1.727	2.560	15.9	20.1
<b>100530</b>	1997 CE <sub>12</sub>		6 11.6 146°13	3°7/11.1 18			<b>176481</b>	2001 XX <sub>200</sub>		6 11.6 21°34	0°2/11.5 18		

EPHEMERIDES

6 11.6

6 11.6

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>498007</b>	2007 <i>EC</i> <sub>114</sub>	6 11.6 169°36'		2°2'/11.3 17			<b>508840</b>	2002 <i>AN</i> <sub>113</sub>	6 11.6 271°70'		4°1'/11.3 17		
5 11	17 45.70	-17 4.8	1.947	2.823	12.3	22.3	5 11	17 45.94	-11 44.8	1.891	2.761	12.9	21.0
5 21	17 39.27	-16 57.0	1.879	2.826	8.9	22.1	5 21	17 39.79	-11 44.2	1.796	2.736	9.8	20.8
5 31	17 30.94	-16 52.2	1.836	2.828	5.2	21.9	5 31	17 31.46	-11 51.9	1.725	2.710	6.4	20.5
6 10	17 21.50	-16 50.8	1.819	2.830	2.3	21.7	6 10	17 21.66	-12 9.2	1.680	2.684	4.1	20.3
6 20	17 11.91	-16 53.2	1.830	2.832	4.3	21.9	6 20	17 11.32	-12 36.2	1.663	2.657	5.7	20.4
6 30	17 3.16	-17 0.0	1.868	2.833	8.0	22.1	6 30	17 1.55	-13 12.5	1.672	2.630	9.3	20.5
7 10	16 56.10	-17 11.6	1.931	2.834	11.5	22.3	7 10	16 53.35	-13 57.2	1.705	2.603	13.0	20.7
7 20	16 51.27	-17 28.1	2.015	2.835	14.5	22.5	7 20	16 47.48	-14 48.7	1.760	2.575	16.4	20.9
<b>91981</b>	1999 <i>VB</i> <sub>99</sub>	6 11.6 23°06'		1°6'/11.2 18 R			<b>366625</b>	2003 <i>RX</i> <sub>12</sub>	6 11.6 305°88'		1°2'/11.7 17		
5 11	17 41.43	-19 41.8	2.006	2.890	11.7	18.7	5 11	17 45.48	-25 31.6	1.257	2.156	16.1	20.9
5 21	17 36.17	-19 20.0	1.942	2.894	8.4	18.5	5 21	17 40.54	-25 37.4	1.169	2.128	11.9	20.6
5 31	17 29.19	-18 58.5	1.903	2.898	4.7	18.3	5 31	17 32.33	-25 38.7	1.102	2.099	6.8	20.2
6 10	17 21.26	-18 38.4	1.889	2.903	1.7	18.1	6 10	17 21.81	-25 33.6	1.057	2.071	1.6	19.8
6 20	17 13.25	-18 20.7	1.903	2.907	3.8	18.3	6 20	17 10.42	-25 21.3	1.036	2.044	5.1	20.0
6 30	17 6.04	-18 6.9	1.944	2.913	7.4	18.5	6 30	16 59.95	-25 3.5	1.038	2.016	10.9	20.2
7 10	17 0.40	-17 58.3	2.009	2.918	10.8	18.7	7 10	16 52.02	-24 44.1	1.060	1.989	16.3	20.4
7 20	16 56.81	-17 55.4	2.095	2.924	13.6	18.9	7 20	16 47.66	-24 27.3	1.100	1.963	21.0	20.6
<b>55927</b>	1998 <i>FN</i> <sub>60</sub>	6 11.6 311°00'		4°8'/12.0 18			<b>190020</b>	2004 <i>PY</i> <sub>55</sub>	6 11.6 290°20'		4°6'/10.6 18		
5 11	17 45.45	-35 6.6	2.015	2.879	12.5	18.5	5 11	17 44.90	-13 3.6	1.789	2.666	13.2	20.6
5 21	17 39.49	-35 47.3	1.938	2.870	9.6	18.3	5 21	17 39.21	-12 26.6	1.688	2.631	10.0	20.3
5 31	17 31.25	-36 18.5	1.884	2.861	6.7	18.1	5 31	17 31.21	-11 53.8	1.609	2.595	6.7	20.0
6 10	17 21.57	-36 36.9	1.856	2.852	4.8	17.9	6 10	17 21.64	-11 28.0	1.557	2.559	4.6	19.8
6 20	17 11.54	-36 40.6	1.854	2.844	5.7	18.0	6 20	17 11.45	-11 11.6	1.530	2.523	6.4	19.8
6 30	17 2.35	-36 30.3	1.878	2.836	8.5	18.1	6 30	17 1.80	-11 6.6	1.530	2.486	10.2	20.0
7 10	16 55.06	-36 9.4	1.926	2.828	11.6	18.3	7 10	16 53.78	-11 13.9	1.552	2.448	14.1	20.1
7 20	16 50.33	-35 42.1	1.996	2.820	14.4	18.5	7 20	16 48.17	-11 33.2	1.595	2.411	17.8	20.3
<b>31047</b>	1996 <i>PW</i> <sub>8</sub>	6 11.6 342°62'		8°8'/13.7 18			<b>285430</b>	1999 <i>VU</i> <sub>123</sub>	6 11.6 195°50'		0°3'/11.6 17		
5 11	17 47.81	-42 48.6	1.356	2.217	17.5	17.5	5 11	17 47.71	-22 23.2	1.873	2.750	12.7	22.6
5 21	17 42.15	-43 11.4	1.288	2.209	14.3	17.3	5 21	17 40.92	-22 25.7	1.799	2.748	9.1	22.4
5 31	17 33.03	-43 11.3	1.239	2.201	11.1	17.1	5 31	17 31.96	-22 26.9	1.750	2.745	5.1	22.1
6 10	17 21.83	-42 42.8	1.212	2.195	9.0	16.9	6 10	17 21.72	-22 26.1	1.727	2.742	0.7	21.8
6 20	17 10.35	-41 44.5	1.208	2.189	9.4	16.9	6 20	17 11.23	-22 23.4	1.732	2.739	3.7	22.0
6 30	17 0.54	-40 21.3	1.226	2.184	12.0	17.1	6 30	17 1.63	-22 19.6	1.764	2.734	8.0	22.3
7 10	16 53.83	-38 42.8	1.266	2.179	15.4	17.3	7 10	16 53.88	-22 16.7	1.821	2.729	11.8	22.5
7 20	16 50.90	-36 59.2	1.324	2.176	18.8	17.5	7 20	16 48.60	-22 16.2	1.899	2.724	15.0	22.7
<b>14560</b>	1997 <i>WB</i> <sub>33</sub>	6 11.6 236°36'		0°8'/11.4 18			<b>321220</b>	2008 <i>YW</i> <sub>136</sub>	6 11.6 250°86'		0°1'/11.6 18		
5 11	17 40.76	-21 2.0	2.823	3.696	9.0	19.2	5 11	17 44.60	-22 52.7	1.991	2.871	11.9	21.0
5 21	17 35.38	-20 50.1	2.741	3.688	6.5	19.0	5 21	17 38.65	-23 0.6	1.914	2.864	8.6	20.8
5 31	17 28.68	-20 37.5	2.685	3.680	3.6	18.8	5 31	17 30.71	-23 7.3	1.861	2.857	4.8	20.5
6 10	17 21.21	-20 24.6	2.657	3.671	0.9	18.6	6 10	17 21.55	-23 12.1	1.835	2.850	0.7	20.2
6 20	17 13.60	-20 11.9	2.658	3.663	2.8	18.7	6 20	17 12.13	-23 14.7	1.836	2.843	3.5	20.4
6 30	17 6.51	-20 0.5	2.687	3.654	5.8	18.9	6 30	17 3.48	-23 15.8	1.864	2.835	7.5	20.7
7 10	17 0.54	-19 51.3	2.743	3.645	8.5	19.1	7 10	16 56.49	-23 16.9	1.917	2.828	11.1	20.9
7 20	16 56.12	-19 45.3	2.822	3.636	10.9	19.2	7 20	16 51.75	-23 19.3	1.991	2.820	14.3	21.1
<b>157485</b>	2005 <i>QN</i> <sub>136</sub>	6 11.6 155°56'		0°2'/11.6 17			<b>346031</b>	2007 <i>TG</i> <sub>383</sub>	6 11.6 206°19'		0°5'/11.5 18		
5 11	17 46.97	-23 42.1	1.899	2.777	12.5	21.2	5 11	17 43.78	-22 13.8	2.147	3.025	11.3	21.6
5 21	17 40.29	-23 46.5	1.833	2.782	9.0	20.9	5 21	17 37.86	-22 6.0	2.074	3.023	8.1	21.4
5 31	17 31.54	-23 48.6	1.791	2.787	5.0	20.7	5 31	17 30.18	-21 56.8	2.025	3.021	4.5	21.1
6 10	17 21.62	-23 47.4	1.776	2.791	0.7	20.4	6 10	17 21.47	-21 46.1	2.004	3.018	0.7	20.8
6 20	17 11.55	-23 43.2	1.789	2.795	3.6	20.6	6 20	17 12.60	-21 34.7	2.010	3.016	3.3	21.0
6 30	17 2.42	-23 36.9	1.828	2.799	7.7	20.9	6 30	17 4.48	-21 23.7	2.044	3.013	7.1	21.3
7 10	16 55.14	-23 30.6	1.892	2.802	11.3	21.1	7 10	16 57.91	-21 14.5	2.103	3.011	10.4	21.5
7 20	16 50.26	-23 26.0	1.978	2.805	14.4	21.3	7 20	16 53.39	-21 8.6	2.184	3.008	13.3	21.7
<b>75044</b>	1999 <i>UG</i> <sub>42</sub>	6 11.6 214°12'		3°9'/10.7 18			<b>182211</b>	2000 <i>WT</i> <sub>102</sub>	6 11.6 191°39'		4°5'/10.3 18		
5 11	17 46.20	-14 30.1	1.924	2.797	12.6	19.9	5 11	17 40.83	- 8 45.2	2.746	3.603	9.8	20.4
5 21	17 39.69	-13 47.1	1.848	2.790	9.3	19.7	5 21	17 35.37	- 8 4.0	2.675	3.601	7.5	20.3
5 31	17 31.22	-13 7.3	1.795	2.782	6.0	19.5	5 31	17 28.66	- 7 28.8	2.629	3.600	5.5	20.1
6 10	17 21.58	-12 33.1	1.770	2.774	3.9	19.3	6 10	17 21.26	- 7 1.8	2.611	3.598	4.5	20.1
6 20	17 11.72	-12 6.6	1.772	2.765	5.6	19.4	6 20	17 13.76	- 6 44.2	2.621	3.595	5.4	20.1
6 30	17 2.67	-11 49.7	1.800	2.755	9.0	19.6	6 30	17 6.79	- 6 37.1	2.658	3.593	7.4	20.2
7 10	16 55.29	-11 43.4	1.853	2.745	12.4	19.8	7 10	17 0.92	- 6 40.2	2.720	3.589	9.7	20.4
7 20	16 50.16	-11 47.5	1.927	2.734	15.5	20.0	7 20	16 56.54	- 6 52.8	2.805	3.586	11.8	20.5
<b>341161</b>	2007 <i>PE</i> <sub>47</sub>	6 11.6 216°06'		1°8'/11.9 17			<b>148431</b>	2000 <i>WU</i> <sub>169</sub>	6 11.6 167°99'		3°1'/12.3 18		
5 11	17 45.68	-28 53.2	2.326	3.193	10.9	21.6	5 11	17 44.98	-34 53.7	3.085	3.932	9.1	21.8
5 21	17 39.22	-29 0.2	2.245	3.187	8.0	21.4	5 21	17 38.39	-35 13.3	3.013	3.936	6.9	21.7
5 31	17 30.93	-29 1.5	2.190	3.180	4.7	21.2	5 31	17 30.35	-35 25.3	2.966	3.940	4.7	21.5
6 10	17 21.55	-28 55.9	2.161	3.172	2.0	21.0	6 10	17 21.49	-35 28.3	2.947	3.944	3.2	21.4
6 20	17 11.95	-28 43.1	2.161	3.164	3.5	21.1	6 20	17 12.52	-35 21.7	2.957	3.947	3.8	21.5
6 30	17 3.08	-28 24.4	2.189	3.156	6.8	21.3	6 30	17 4.18	-35 6.5	2.995	3.949	5.9	21.6
7 10	16 55.77	-28 2.4	2.242	3.147	10.0	21.5	7 10	16 57.11	-34 44.9	3.061	3.951	8.1	21.8
7 20	16 50.56	-27 39.6	2.319	3.138	12.8	21.7	7 20	16 51.77	-34 19.5	3.150	3.953	10.1	21.9
<b>4244</b>	Zakharchenko	6 11.6 284°68'		0°1'/11.6 18			<b>26043</b>	4319 <i>T</i> <sub>-1</sub>	6 11.6 318°23'		6°8'/11.6 18		
5 11	17 42.15	-22 55.6	2.330	3.207	10.5	17.9	5 11	17 46.79	-34 20.6	1.285	2.171	16.7	17.6
5 21	17 36.71	-22 56.4	2.242	3.191	7.6	17.7	5 21	17 41.71	-35 31.8	1.207	2.151	13.0	17.3
5 31	17 29.57	-22 55.9	2.179	3.175	4.2	17.5	5 31	17 33.09	-36 33.9	1.150	2.132	9.2	17.1
6 10	17 21.37	-22 53.6	2.144	3.158	0.6	17.2	6 10	17 21.94	-37 19.6	1.115	2.114	6.9	16.9
6 20	17 12.90	-22 49.7	2.136	3.142	3.1	17.3	6 20	17 9.91	-37 43.3	1.104	2.096	8.3	16.9
6 30	17 5.01	-22 45.0	2.156	3.126	6.7	17.5	6 30	16 58.97	-37 44.2	1.114	2.079	12.1	17.1
7 10	16 58.50	-22 40.8	2.201	3.109	10.0	17.7	7 10	16 50.91	-37 27.				

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>393993</b>	2005 <i>UA</i> <sub>437</sub>		6 11.6	71°07'	3°4/10.7	16	<b>229552</b>	2005 <i>YP</i> <sub>189</sub>		6 11.6	218°58'	0°9/11.5	18
5 11	17 41.42	-14 27.0	2.212	3.087	11.1	21.1	5 11	17 45.90	-20 50.3	2.168	3.042	11.3	21.9
5 21	17 36.01	-13 48.2	2.148	3.091	8.2	20.9	5 21	17 39.44	-20 45.5	2.086	3.033	8.2	21.7
5 31	17 29.08	-13 12.9	2.109	3.096	5.2	20.7	5 31	17 31.11	-20 40.3	2.030	3.024	4.6	21.4
6 10	17 21.32	-12 43.2	2.097	3.101	3.4	20.6	6 10	17 21.65	-20 34.7	2.000	3.014	1.0	21.2
6 20	17 13.49	-12 20.7	2.113	3.106	4.8	20.7	6 20	17 11.94	-20 29.1	1.999	3.004	3.5	21.3
6 30	17 6.39	-12 6.6	2.155	3.111	7.7	20.9	6 30	17 2.93	-20 24.3	2.026	2.993	7.3	21.5
7 10	17 0.68	-12 1.5	2.222	3.116	10.6	21.1	7 10	16 55.45	-20 21.6	2.078	2.982	10.7	21.7
7 20	16 56.80	-12 5.1	2.311	3.121	13.1	21.3	7 20	16 50.09	-20 22.3	2.152	2.970	13.7	21.9
<b>242727</b>	2005 <i>UQ</i> <sub>178</sub>		6 11.6	190°30'	1°5/11.2	18	<b>52097</b>	2565 <i>P-L</i>		6 11.6	301°75'	3°0/11.9	18
5 11	17 41.54	-18 42.0	2.696	3.568	9.4	21.0	5 11	17 47.63	-29 11.7	1.531	2.414	14.6	18.7
5 21	17 35.96	-18 26.5	2.622	3.567	6.8	20.9	5 21	17 41.40	-29 39.3	1.464	2.412	10.8	18.4
5 31	17 29.02	-18 11.7	2.573	3.566	3.9	20.7	5 31	17 32.46	-30 0.0	1.418	2.410	6.6	18.2
6 10	17 21.33	-17 58.3	2.552	3.564	1.5	20.5	6 10	17 21.85	-30 10.9	1.397	2.408	3.1	17.9
6 20	17 13.53	-17 46.9	2.560	3.562	3.2	20.6	6 20	17 10.91	-30 10.4	1.402	2.406	5.0	18.1
6 30	17 6.30	-17 38.5	2.597	3.560	6.1	20.8	6 30	17 1.12	-30 0.0	1.432	2.404	9.3	18.3
7 10	17 0.24	-17 33.9	2.659	3.558	8.8	21.0	7 10	16 53.67	-29 43.2	1.485	2.402	13.4	18.5
7 20	16 55.78	-17 33.5	2.745	3.555	11.3	21.1	7 20	16 49.27	-29 24.4	1.557	2.400	16.9	18.8
<b>144366</b>	2004 <i>DA</i> <sub>48</sub>		6 11.6	173°28'	0°8/11.5	18	<b>56662</b>	2000 <i>KY</i> <sub>56</sub>		6 11.6	303°74'	2°3/11.3	18
5 11	17 43.43	-21 26.1	2.121	2.999	11.3	20.2	5 11	17 43.97	-18 6.0	1.501	2.392	14.4	18.0
5 21	17 37.61	-21 16.7	2.050	3.000	8.1	20.0	5 21	17 38.78	-17 56.7	1.419	2.374	10.5	17.7
5 31	17 30.05	-21 6.4	2.005	3.000	4.5	19.8	5 31	17 31.05	-17 50.3	1.360	2.355	6.1	17.4
6 10	17 21.48	-20 55.5	1.986	3.001	0.9	19.5	6 10	17 21.67	-17 47.6	1.324	2.337	2.4	17.1
6 20	17 12.77	-20 44.6	1.995	3.001	3.4	19.7	6 20	17 11.79	-17 49.2	1.314	2.319	5.0	17.2
6 30	17 4.83	-20 34.9	2.032	3.001	7.1	19.9	6 30	17 2.75	-17 56.0	1.329	2.301	9.8	17.5
7 10	16 58.44	-20 27.8	2.093	3.001	10.5	20.2	7 10	16 55.73	-18 8.9	1.366	2.284	14.2	17.7
7 20	16 54.10	-20 24.4	2.176	3.001	13.3	20.3	7 20	16 51.52	-18 28.2	1.422	2.266	18.1	17.9
<b>503300</b>	2016 <i>AF</i> <sub>75</sub>		6 11.6	38°82'	1°0/11.8	17	<b>105962</b>	2000 <i>SB</i> <sub>258</sub>		6 11.6	200°20'	4°5/12.3	18
5 11	17 47.05	-27 47.9	1.096	1.998	17.6	20.4	5 11	17 46.20	-36 41.4	2.417	3.268	11.1	20.0
5 21	17 41.18	-27 6.9	1.051	2.010	12.7	20.2	5 21	17 39.71	-37 14.6	2.344	3.266	8.6	19.8
5 31	17 32.26	-26 15.4	1.025	2.023	7.1	19.9	5 31	17 31.27	-37 38.0	2.294	3.264	6.2	19.7
6 10	17 21.77	-25 14.8	1.022	2.037	1.5	19.6	6 10	17 21.67	-37 48.9	2.271	3.262	4.6	19.5
6 20	17 11.42	-24 9.2	1.042	2.051	4.9	19.9	6 20	17 11.85	-37 46.2	2.275	3.260	5.2	19.6
6 30	17 2.83	-23 4.9	1.086	2.066	10.4	20.2	6 30	17 2.81	-37 30.8	2.307	3.258	7.5	19.7
7 10	16 57.17	-22 7.8	1.150	2.081	15.2	20.5	7 10	16 55.43	-37 5.9	2.363	3.256	10.1	19.9
7 20	16 54.90	-21 21.7	1.233	2.097	19.2	20.8	7 20	16 50.28	-36 35.1	2.442	3.253	12.5	20.0
<b>509128</b>	2005 <i>YB</i> <sub>221</sub>		6 11.6	202°16'	3°9/11.1	18	<b>338722</b>	2003 <i>UK</i> <sub>88</sub>		6 11.6	225°51'	7°0/9.7	18
5 11	17 41.26	- 8 7.9	3.001	3.852	9.2	22.1	5 11	17 42.42	- 3 41.8	2.238	3.086	12.0	20.7
5 21	17 35.64	- 8 2.1	2.924	3.847	7.1	22.0	5 21	17 36.78	- 2 44.6	2.166	3.078	9.7	20.6
5 31	17 28.82	- 8 3.4	2.872	3.843	5.0	21.8	5 31	17 29.57	- 1 57.8	2.118	3.070	7.8	20.4
6 10	17 21.31	- 8 12.5	2.847	3.837	3.9	21.8	6 10	17 21.43	- 1 24.8	2.095	3.062	7.0	20.4
6 20	17 13.65	- 8 29.8	2.852	3.832	4.7	21.8	6 20	17 13.12	- 1 7.9	2.099	3.053	7.9	20.4
6 30	17 6.46	- 8 55.0	2.885	3.826	6.7	21.9	6 30	17 5.44	- 1 8.2	2.128	3.044	10.0	20.5
7 10	17 0.26	- 9 27.4	2.944	3.819	8.9	22.1	7 10	16 59.09	- 1 24.8	2.181	3.034	12.3	20.6
7 20	16 55.44	-10 5.9	3.027	3.812	10.9	22.2	7 20	16 54.54	- 1 55.4	2.254	3.025	14.6	20.8
<b>509712</b>	2008 <i>SP</i> <sub>166</sub>		6 11.6	243°27'	1°0/11.8	18	<b>269714</b>	1998 <i>HG</i> <sub>142</sub>		6 11.6	347°27'	7°3/9.3	17
5 11	17 46.23	-26 1.4	2.163	3.035	11.4	22.2	5 11	17 37.30	-13 25.6	1.116	2.027	16.7	19.0
5 21	17 39.80	-26 9.3	2.075	3.020	8.3	22.0	5 21	17 34.29	-11 45.0	1.052	2.011	12.7	18.7
5 31	17 31.37	-26 13.5	2.012	3.005	4.7	21.7	5 31	17 28.62	-10 7.6	1.008	1.997	9.0	18.4
6 10	17 21.68	-26 12.8	1.975	2.989	1.3	21.4	6 10	17 21.32	- 8 41.5	0.986	1.985	7.3	18.3
6 20	17 11.65	-26 6.8	1.967	2.973	3.5	21.6	6 20	17 13.71	- 7 34.1	0.986	1.975	9.5	18.4
6 30	17 2.31	-25 56.5	1.987	2.956	7.3	21.8	6 30	17 7.21	- 6 51.0	1.006	1.967	13.6	18.6
7 10	16 54.57	-25 44.1	2.032	2.939	10.8	22.0	7 10	17 3.01	- 6 33.5	1.045	1.960	17.8	18.8
7 20	16 49.05	-25 31.8	2.099	2.921	13.9	22.1	7 20	17 1.80	- 6 39.5	1.100	1.956	21.5	19.0
<b>391755</b>	2008 <i>EA</i> <sub>35</sub>		6 11.6	0°99'	9°5/12.2	18	<b>308395</b>	2005 <i>SO</i> <sub>46</sub>		6 11.6	207°37'	3°5/10.7	18
5 11	17 46.89	-44 14.5	1.671	2.516	15.5	20.1	5 11	17 41.28	-13 3.2	2.477	3.345	10.3	21.2
5 21	17 41.28	-45 35.3	1.611	2.515	13.0	19.9	5 21	17 35.84	-12 27.2	2.404	3.343	7.7	21.1
5 31	17 32.56	-46 38.4	1.571	2.514	10.8	19.8	5 31	17 29.00	-11 55.0	2.357	3.340	5.0	20.9
6 10	17 21.86	-47 17.2	1.554	2.514	9.6	19.7	6 10	17 21.36	-11 28.7	2.337	3.337	3.5	20.8
6 20	17 10.70	-47 28.2	1.560	2.515	10.1	19.7	6 20	17 13.61	-11 9.5	2.345	3.334	4.7	20.9
6 30	17 0.80	-47 12.5	1.589	2.517	11.9	19.8	6 30	17 6.46	-10 58.7	2.380	3.331	7.3	21.0
7 10	16 53.57	-46 35.7	1.639	2.520	14.3	20.0	7 10	17 0.54	-10 56.6	2.441	3.328	10.0	21.2
7 20	16 49.80	-45 45.1	1.707	2.523	16.8	20.2	7 20	16 56.29	-11 2.8	2.523	3.324	12.4	21.4
<b>396998</b>	2005 <i>SZ</i> <sub>236</sub>		6 11.6	286°16'	1°8/11.9	16	<b>219069</b>	1997 <i>TW</i> <sub>13</sub>		6 11.6	163°65'	5°6/12.4	17
5 11	17 43.92	-28 13.5	2.206	3.079	11.2	21.5	5 11	17 50.63	-37 21.2	1.885	2.739	13.6	21.0
5 21	17 38.19	-28 24.6	2.114	3.058	8.2	21.2	5 21	17 43.29	-37 58.2	1.819	2.743	10.6	20.8
5 31	17 30.50	-28 30.7	2.046	3.038	4.9	21.0	5 31	17 33.40	-38 22.3	1.775	2.746	7.6	20.6
6 10	17 21.56	-28 30.5	2.005	3.017	1.9	20.7	6 10	17 21.99	-38 29.5	1.757	2.748	5.7	20.5
6 20	17 12.27	-28 23.4	1.992	2.996	3.6	20.8	6 20	17 10.36	-38 18.5	1.765	2.751	6.4	20.5
6 30	17 3.61	-28 10.3	2.006	2.975	7.2	21.0	6 30	16 59.88	-37 51.0	1.799	2.753	9.1	20.7
7 10	16 56.49	-27 53.5	2.045	2.955	10.6	21.2	7 10	16 51.67	-37 12.0	1.857	2.754	12.2	20.9
7 20	16 51.53	-27 35.7	2.106	2.934	13.6	21.3	7 20	16 46.36	-36 27.1	1.936	2.755	15.0	21.1
<b>355771</b>	2008 <i>RD</i> <sub>112</sub>		6 11.6	332°05'	2°0/11.8	17	<b>297434</b> </						

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>119943</b>	2002 <i>GJ</i> <sub>148</sub>		6 11.6 177°90	1°1/11.8 18			<b>2827</b>	Vellamo		6 11.6 65°85	6°8/12.6 18		
5 11	17 43.07	-26 45.0	2.527	3.397	10.0	20.3	5 11	17 50.99	-37 27.4	1.403	2.273	16.5	15.5
5 21	17 37.21	-26 48.2	2.454	3.398	7.2	20.1	5 21	17 44.19	-38 6.6	1.344	2.276	12.9	15.3
5 31	17 29.79	-26 47.4	2.406	3.399	4.1	19.9	5 31	17 34.15	-38 29.7	1.304	2.279	9.3	15.1
6 10	17 21.49	-26 42.1	2.385	3.399	1.2	19.7	6 10	17 22.16	-38 31.4	1.288	2.282	6.9	15.0
6 20	17 13.07	-26 32.4	2.394	3.399	3.0	19.9	6 20	17 9.93	-38 9.9	1.296	2.286	7.7	15.0
6 30	17 5.31	-26 19.2	2.430	3.399	6.1	20.1	6 30	16 59.26	-37 28.4	1.328	2.289	10.9	15.2
7 10	16 58.91	-26 4.4	2.492	3.399	9.1	20.2	7 10	16 51.51	-36 34.2	1.382	2.292	14.6	15.4
7 20	16 54.34	-25 49.9	2.577	3.398	11.6	20.4	7 20	16 47.37	-35 34.9	1.455	2.296	18.0	15.7
<b>80341</b>	1999 <i>XQ</i> <sub>109</sub>		6 11.6 220°28	1°1/11.5 18			<b>153253</b>	2001 <i>BZ</i> <sub>45</sub>		6 11.6 208°89	5°7/10.2 18		
5 11	17 47.57	-20 15.1	1.975	2.850	12.2	20.8	5 11	17 40.41	-2 27.8	3.002	3.836	9.6	21.2
5 21	17 40.81	-20 11.2	1.893	2.840	8.8	20.6	5 21	17 35.05	-1 55.2	2.927	3.830	7.9	21.1
5 31	17 31.97	-20 7.6	1.836	2.830	5.0	20.3	5 31	17 28.54	-1 31.8	2.877	3.823	6.3	21.0
6 10	17 21.82	-20 4.0	1.805	2.819	1.3	20.0	6 10	17 21.36	-1 19.7	2.854	3.816	5.7	20.9
6 20	17 11.36	-20 0.7	1.802	2.807	3.9	20.2	6 20	17 14.05	-1 19.8	2.859	3.808	6.3	21.0
6 30	17 1.66	-19 58.8	1.827	2.794	7.9	20.4	6 30	17 7.20	-1 32.4	2.890	3.800	7.8	21.1
7 10	16 53.67	-19 59.3	1.877	2.781	11.7	20.6	7 10	17 1.32	-1 56.7	2.946	3.792	9.7	21.2
7 20	16 48.01	-20 3.7	1.948	2.767	14.9	20.8	7 20	16 56.79	-2 31.1	3.024	3.783	11.5	21.3
<b>126474</b>	2002 <i>CM</i> <sub>43</sub>		6 11.6 4°42	0°9/11.5 18			<b>47487</b>	2000 <i>AK</i> <sub>30</sub>		6 11.6 274°92	0°6/11.7 18		
5 11	17 41.29	-20 56.4	1.787	2.676	12.6	18.5	5 11	17 47.28	-24 14.2	1.621	2.505	13.9	18.9
5 21	17 36.36	-20 50.0	1.722	2.676	9.0	18.3	5 21	17 41.20	-24 22.7	1.532	2.484	10.1	18.7
5 31	17 29.48	-20 43.7	1.680	2.677	5.0	18.1	5 31	17 32.46	-24 28.8	1.467	2.463	5.7	18.3
6 10	17 21.46	-20 37.6	1.664	2.678	1.1	17.8	6 10	17 21.95	-24 31.0	1.427	2.441	1.0	18.0
6 20	17 13.29	-20 32.4	1.674	2.680	3.8	18.0	6 20	17 10.86	-24 28.5	1.413	2.420	4.2	18.1
6 30	17 5.98	-20 29.1	1.709	2.683	7.9	18.3	6 30	17 0.58	-24 22.6	1.424	2.397	9.1	18.4
7 10	17 0.41	-20 28.9	1.769	2.686	11.6	18.5	7 10	16 52.36	-24 15.5	1.459	2.375	13.6	18.6
7 20	16 57.10	-20 32.6	1.849	2.690	14.7	18.7	7 20	16 47.03	-24 9.9	1.514	2.353	17.5	18.8
<b>41808</b>	2000 <i>WG</i> <sub>34</sub>		6 11.6 192°25	3°6/11.0 18			<b>313045</b>	2000 <i>QR</i> <sub>148</sub>		6 11.6 245°20	12°3/10.1 17		
5 11	17 47.07	-14 47.8	1.803	2.678	13.2	19.6	5 11	17 46.63	+ 7 34.9	1.759	2.567	16.4	20.5
5 21	17 40.43	-14 20.3	1.733	2.677	9.7	19.4	5 21	17 40.27	+ 8 25.0	1.685	2.552	14.5	20.3
5 31	17 31.72	-13 57.1	1.687	2.675	6.1	19.1	5 31	17 31.74	+ 8 52.0	1.632	2.536	12.9	20.1
6 10	17 21.78	-13 39.8	1.666	2.673	3.6	19.0	6 10	17 21.83	+ 8 50.2	1.600	2.520	12.3	20.1
6 20	17 11.65	-13 29.8	1.673	2.670	5.4	19.1	6 20	17 11.55	+ 8 17.0	1.592	2.503	12.9	20.1
6 30	17 2.40	-13 28.3	1.706	2.666	9.0	19.3	6 30	17 2.01	+ 7 13.0	1.606	2.485	14.6	20.1
7 10	16 54.97	-13 35.7	1.764	2.661	12.6	19.5	7 10	16 54.18	+ 5 42.6	1.640	2.467	16.9	20.2
7 20	16 49.92	-13 51.5	1.842	2.656	15.8	19.7	7 20	16 48.75	+ 3 52.4	1.694	2.449	19.2	20.4
<b>30244</b>	Linhpham		6 11.6 152°35	2°6/11.8 18			<b>245589</b>	2005 <i>UX</i> <sub>399</sub>		6 11.6 22°96	4°3/10.7 17		
5 11	17 51.59	-27 53.0	1.561	2.439	14.7	19.1	5 11	17 44.83	-18 4.0	1.044	1.952	17.8	19.9
5 21	17 44.14	-28 29.7	1.499	2.446	10.8	18.9	5 21	17 39.69	-16 55.9	0.995	1.956	13.0	19.6
5 31	17 33.95	-29 0.8	1.460	2.452	6.4	18.7	5 31	17 31.57	-15 49.0	0.965	1.961	7.8	19.3
6 10	17 22.11	-29 22.9	1.446	2.457	2.7	18.4	6 10	17 21.79	-14 48.2	0.957	1.967	4.3	19.2
6 20	17 10.02	-29 34.0	1.459	2.462	4.8	18.6	6 20	17 11.95	-13 58.7	0.972	1.973	7.1	19.3
6 30	16 59.16	-29 35.0	1.498	2.467	9.1	18.8	6 30	17 3.64	-13 24.7	1.008	1.980	12.1	19.6
7 10	16 50.73	-29 29.3	1.560	2.471	13.2	19.1	7 10	16 58.09	-13 7.9	1.064	1.988	16.8	19.9
7 20	16 45.39	-29 20.8	1.642	2.474	16.6	19.3	7 20	16 55.86	-13 7.3	1.137	1.996	20.8	20.2
<b>478082</b>	2011 <i>UQ</i> <sub>33</sub>		6 11.6 176°70	6°5/ 9.1 16			<b>246473</b>	2007 <i>WK</i> <sub>17</sub>		6 11.6 217°89	1°2/11.4 18		
5 11	17 41.00	- 0 23.3	2.991	3.816	9.9	22.0	5 11	17 43.43	-19 52.9	2.094	2.972	11.5	20.9
5 21	17 35.41	+ 0 39.6	2.928	3.818	8.3	21.9	5 21	17 37.68	-19 46.2	2.022	2.971	8.2	20.7
5 31	17 28.69	+ 1 32.6	2.890	3.820	7.0	21.8	5 31	17 30.16	-19 40.1	1.974	2.969	4.6	20.4
6 10	17 21.36	+ 2 13.1	2.878	3.821	6.5	21.8	6 10	17 21.59	-19 34.8	1.954	2.967	1.3	20.2
6 20	17 13.95	+ 2 39.2	2.894	3.821	7.2	21.8	6 20	17 12.86	-19 30.7	1.960	2.965	3.6	20.4
6 30	17 7.04	+ 2 50.2	2.936	3.821	8.5	21.9	6 30	17 4.87	-19 28.8	1.995	2.963	7.3	20.6
7 10	17 1.13	+ 2 46.7	3.002	3.821	10.2	22.1	7 10	16 58.42	-19 30.0	2.054	2.961	10.7	20.8
7 20	16 56.60	+ 2 30.3	3.088	3.820	11.8	22.2	7 20	16 54.02	-19 35.1	2.134	2.959	13.6	21.0
<b>258338</b>	2001 <i>VS</i> <sub>72</sub>		6 11.6 15°67	1°7/11.8 17			<b>396123</b>	2013 <i>CJ</i> <sub>188</sub>		6 11.6 269°61	6°2/10.9 18		
5 11	17 45.72	-26 43.3	1.433	2.325	15.0	19.9	5 11	17 41.80	- 3 48.1	2.322	3.170	11.6	20.4
5 21	17 40.03	-26 54.6	1.372	2.326	10.9	19.7	5 21	17 36.38	- 3 31.5	2.242	3.157	9.3	20.3
5 31	17 31.69	-27 0.6	1.333	2.328	6.2	19.4	5 31	17 29.42	- 3 26.5	2.185	3.143	7.3	20.1
6 10	17 21.80	-26 59.4	1.317	2.331	1.9	19.2	6 10	17 21.50	- 3 35.2	2.155	3.130	6.2	20.0
6 20	17 11.70	-26 50.9	1.327	2.334	4.5	19.3	6 20	17 13.35	- 3 58.4	2.151	3.117	7.0	20.0
6 30	17 2.81	-26 36.8	1.361	2.337	9.2	19.6	6 30	17 5.74	- 4 35.8	2.173	3.103	9.1	20.2
7 10	16 56.27	-26 20.5	1.418	2.341	13.5	19.9	7 10	16 59.37	- 5 25.6	2.219	3.089	11.5	20.3
7 20	16 52.72	-26 5.2	1.494	2.345	17.1	20.1	7 20	16 54.75	- 6 25.4	2.288	3.076	13.9	20.4
<b>322954</b>	2002 <i>JV</i> <sub>10</sub>		6 11.6 158°95	18°6/ 4.8 18			<b>76469</b>	2000 <i>FY</i> <sub>56</sub>		6 11.6 208°93	0°4/11.7 18		
5 11	17 47.47	+ 6 7.9	1.043	1.896	22.2	20.2	5 11	17 44.81	-23 34.1	2.185	3.060	11.2	19.7
5 21	17 41.51	+ 9 19.2	1.006	1.897	20.0	20.0	5 21	17 38.69	-23 48.2	2.110	3.057	8.0	19.5
5 31	17 32.57	+12 0.1	0.987	1.898	18.8	19.9	5 31	17 30.74	-24 0.8	2.059	3.054	4.5	19.3
6 10	17 21.93	+13 56.1	0.987	1.899	18.8	19.9	6 10	17 21.69	-24 11.0	2.036	3.051	0.7	19.0
6 20	17 11.12	+14 58.7	1.004	1.899	20.1	20.0	6 20	17 12.41	-24 18.2	2.041	3.047	3.2	19.2
6 30	17 1.76	+15 6.8	1.038	1.900	22.1	20.1	6 30	17 3.85	-24 22.9	2.073	3.043	6.9	19.4
7 10	16 55.09	+14 27.6	1.086	1.900	24.4	20.3	7 10	16 56.84	-24 26.4	2.131	3.039	10.3	19.6
7 20	16 51.75	+13 11.4	1.145	1.901	26.6	20.5	7 20	16 51.91	-24 30.2	2.211	3.035	13.2	19.8
<b>26855</b>	1992 <i>WN</i> <sub>1</sub>		6 11.6 183°33	1°8/11.3 18			<b>303700</b>	2005 <i>OJ</i> <sub>24</sub> </					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>313093</b>	2000 UC <sub>95</sub>		6 11.6 242°29	1°0/11.3 18			<b>365815</b>	2011 SX <sub>89</sub>		6 11.6 183°29	0°6/11.7 17		
5 11	17 42.84	-20 49.0	2.822	3.691	9.2	21.1	5 11	17 49.78	-25 3.3	1.563	2.445	14.5	21.8
5 21	17 36.95	-20 23.9	2.730	3.674	6.6	20.9	5 21	17 42.79	-25 1.2	1.495	2.445	10.5	21.6
5 31	17 29.66	-19 57.4	2.663	3.657	3.7	20.7	5 31	17 33.20	-24 54.5	1.450	2.445	5.9	21.3
6 10	17 21.54	-19 30.3	2.625	3.639	1.1	20.5	6 10	17 22.08	-24 42.4	1.431	2.445	1.1	21.0
6 20	17 13.22	-19 3.4	2.616	3.620	3.0	20.6	6 20	17 10.74	-24 25.1	1.437	2.444	4.2	21.2
6 30	17 5.41	-18 38.4	2.637	3.601	6.0	20.8	6 30	17 0.55	-24 4.8	1.470	2.443	9.0	21.5
7 10	16 58.73	-18 16.6	2.684	3.581	8.8	20.9	7 10	16 52.65	-23 44.8	1.527	2.441	13.2	21.7
7 20	16 53.65	-17 59.3	2.755	3.561	11.3	21.1	7 20	16 47.69	-23 28.0	1.603	2.439	16.8	22.0
<b>421285</b>	2013 TY <sub>2</sub>		6 11.6 108°65	5°6/10.5 17			<b>333928</b>	1999 TP <sub>333</sub>		6 11.6 202°29	4°7/10.3 18		
5 11	17 44.82	- 8 29.4	2.051	2.912	12.4	20.9	5 11	17 43.61	-10 20.1	2.366	3.227	11.0	21.6
5 21	17 38.41	- 7 40.5	2.002	2.931	9.5	20.8	5 21	17 37.59	- 9 31.8	2.292	3.223	8.4	21.4
5 31	17 30.42	- 7 0.3	1.979	2.950	6.9	20.6	5 31	17 30.04	- 8 48.9	2.243	3.218	5.9	21.3
6 10	17 21.63	- 6 31.7	1.981	2.968	5.6	20.6	6 10	17 21.63	- 8 14.0	2.221	3.213	4.7	21.2
6 20	17 12.88	- 6 16.2	2.011	2.986	6.7	20.7	6 20	17 13.07	- 7 49.1	2.228	3.207	5.8	21.2
6 30	17 5.01	- 6 14.5	2.066	3.003	9.1	20.9	6 30	17 5.15	- 7 35.4	2.261	3.201	8.3	21.4
7 10	16 58.70	- 6 25.7	2.146	3.020	11.7	21.1	7 10	16 58.54	- 7 33.3	2.319	3.194	10.9	21.5
7 20	16 54.36	- 6 48.0	2.247	3.037	14.1	21.3	7 20	16 53.71	- 7 41.9	2.399	3.187	13.3	21.7
<b>488785</b>	2004 WR <sub>1</sub>		6 11.6 282°49	2°4/10.9 15			<b>148793</b>	2001 UZ <sub>60</sub>		6 11.6 167°83	0°5/11.5 18		
5 11	17 44.91	-19 45.5	1.785	2.668	12.9	21.6	5 11	17 43.49	-22 6.3	2.401	3.275	10.4	21.3
5 21	17 39.11	-18 53.1	1.697	2.648	9.4	21.4	5 21	17 37.53	-21 58.6	2.331	3.278	7.4	21.2
5 31	17 31.12	-17 57.9	1.633	2.628	5.5	21.1	5 31	17 30.02	-21 49.6	2.285	3.280	4.1	20.9
6 10	17 21.76	-17 2.3	1.596	2.607	2.4	20.9	6 10	17 21.62	-21 39.4	2.267	3.282	0.7	20.7
6 20	17 12.07	-16 9.3	1.585	2.586	4.9	21.0	6 20	17 13.11	-21 28.6	2.278	3.283	3.0	20.9
6 30	17 3.17	-15 22.6	1.600	2.566	9.0	21.2	6 30	17 5.29	-21 18.2	2.316	3.285	6.4	21.1
7 10	16 56.04	-14 45.1	1.640	2.545	13.0	21.4	7 10	16 58.85	-21 9.4	2.381	3.286	9.5	21.3
7 20	16 51.35	-14 18.6	1.699	2.524	16.5	21.5	7 20	16 54.27	-21 3.6	2.468	3.287	12.1	21.5
<b>99582</b>	2002 FX <sub>37</sub>		6 11.6 52°11	7°5/11.2 18			<b>7572</b>	Znokai		6 11.6 206°31	2°6/12.0 18		
5 11	17 43.61	- 3 52.2	1.724	2.583	14.4	19.5	5 11	17 50.76	-29 10.4	1.461	2.342	15.3	17.1
5 21	17 37.95	- 3 28.3	1.665	2.587	11.6	19.3	5 21	17 43.78	-29 19.8	1.392	2.339	11.3	16.9
5 31	17 30.35	- 3 19.6	1.628	2.590	8.9	19.1	5 31	17 33.88	-29 20.7	1.344	2.336	6.8	16.6
6 10	17 21.64	- 3 28.9	1.615	2.594	7.6	19.1	6 10	17 22.19	-29 10.5	1.321	2.333	2.8	16.3
6 20	17 12.79	- 3 56.8	1.627	2.597	8.4	19.1	6 20	17 10.18	-28 48.9	1.324	2.328	5.0	16.5
6 30	17 4.80	- 4 42.2	1.664	2.601	10.9	19.3	6 30	16 59.45	-28 18.6	1.351	2.324	9.6	16.7
7 10	16 58.54	- 5 42.0	1.723	2.605	13.7	19.4	7 10	16 51.26	-27 44.3	1.402	2.319	14.0	17.0
7 20	16 54.55	- 6 52.5	1.803	2.609	16.4	19.6	7 20	16 46.33	-27 11.0	1.473	2.313	17.8	17.2
<b>196499</b>	2003 LV <sub>6</sub>		6 11.6 352°29	12°7/ 9.4 17			<b>74879</b>	1999 TP <sub>104</sub>		6 11.6 199°72	1°2/11.4 17		
5 11	17 37.01	- 0 47.7	1.124	2.009	18.6	18.4	5 11	17 47.64	-20 53.2	1.952	2.827	12.3	21.0
5 21	17 34.02	+ 0 39.7	1.070	1.999	15.8	18.2	5 21	17 40.82	-20 32.5	1.876	2.824	8.9	20.8
5 31	17 28.47	+ 1 45.1	1.034	1.990	13.5	18.0	5 31	17 31.96	-20 10.7	1.825	2.820	5.0	20.6
6 10	17 21.39	+ 2 20.0	1.017	1.983	12.7	18.0	6 10	17 21.91	-19 48.1	1.801	2.815	1.4	20.3
6 20	17 14.03	+ 2 19.7	1.020	1.978	13.8	18.0	6 20	17 11.65	-19 26.0	1.805	2.809	3.9	20.5
6 30	17 7.72	+ 1 43.7	1.042	1.974	16.3	18.1	6 30	17 2.26	-19 6.2	1.836	2.803	7.9	20.7
7 10	17 3.62	+ 0 36.8	1.082	1.973	19.3	18.3	7 10	16 54.62	-18 50.6	1.892	2.796	11.6	20.9
7 20	17 2.37	- 0 53.2	1.136	1.973	22.2	18.5	7 20	16 49.31	-18 40.7	1.970	2.789	14.8	21.1
<b>256830</b>	2008 CK <sub>145</sub>		6 11.6 170°03	2°3/11.3 17			<b>231361</b>	2006 GM <sub>42</sub>		6 11.6 352°19	4°8/11.3 18		
5 11	17 46.94	-17 50.7	1.785	2.663	13.1	21.4	5 11	17 43.31	-10 54.6	1.695	2.573	13.7	19.7
5 21	17 40.36	-17 32.2	1.718	2.666	9.5	21.1	5 21	17 37.88	-10 45.1	1.630	2.572	10.4	19.5
5 31	17 31.70	-17 15.6	1.676	2.669	5.5	20.9	5 31	17 30.39	-10 45.0	1.587	2.571	6.9	19.3
6 10	17 21.84	-17 2.0	1.659	2.671	2.4	20.7	6 10	17 21.69	-10 56.0	1.568	2.570	4.8	19.1
6 20	17 11.82	-16 52.3	1.670	2.672	4.6	20.8	6 20	17 12.77	-11 18.3	1.576	2.569	6.2	19.2
6 30	17 2.75	-16 47.6	1.708	2.674	8.5	21.1	6 30	17 4.71	-11 51.4	1.609	2.568	9.5	19.4
7 10	16 55.54	-16 49.1	1.769	2.674	12.2	21.3	7 10	16 58.40	-12 33.8	1.665	2.568	13.0	19.6
7 20	16 50.75	-16 57.0	1.852	2.674	15.4	21.5	7 20	16 54.45	-13 23.3	1.741	2.568	16.1	19.8
<b>161399</b>	2003 UB <sub>163</sub>		6 11.6 195°09	2°4/11.9 18			<b>35426</b>	1998 BN <sub>1</sub>		6 11.6 180°31	2°5/11.9 18		
5 11	17 46.95	-30 10.1	2.667	3.525	10.0	20.7	5 11	17 49.98	-28 58.5	1.656	2.532	14.1	18.9
5 21	17 40.05	-30 38.0	2.587	3.522	7.4	20.5	5 21	17 42.93	-29 17.1	1.588	2.533	10.4	18.7
5 31	17 31.45	-31 0.6	2.533	3.518	4.6	20.3	5 31	17 33.30	-29 28.5	1.543	2.534	6.2	18.4
6 10	17 21.82	-31 16.0	2.507	3.514	2.4	20.2	6 10	17 22.12	-29 30.4	1.523	2.534	2.7	18.2
6 20	17 11.95	-31 23.3	2.510	3.509	3.6	20.3	6 20	17 10.68	-29 21.9	1.530	2.534	4.6	18.3
6 30	17 2.71	-31 23.0	2.542	3.504	6.3	20.4	6 30	17 0.38	-29 4.7	1.563	2.533	8.8	18.6
7 10	16 54.86	-31 16.8	2.601	3.497	9.1	20.6	7 10	16 52.33	-28 42.6	1.620	2.532	12.7	18.8
7 20	16 48.94	-31 7.1	2.683	3.491	11.6	20.8	7 20	16 47.21	-28 19.6	1.698	2.530	16.1	19.0
<b>311528</b>	2005 YL <sub>41</sub>		6 11.6 248°30	0°7/11.8 18			<b>477099</b>	2009 BJ <sub>148</sub>		6 11.6 48°84	4°8/12.8 17		
5 11	17 42.97	-25 52.8	2.618	3.488	9.7	21.5	5 11	17 46.96	-36 53.8	1.928	2.787	13.1	20.4
5 21	17 37.19	-25 48.4	2.530	3.475	7.0	21.3	5 21	17 40.51	-37 2.5	1.864	2.793	10.1	20.2
5 31	17 29.86	-25 40.4	2.468	3.461	4.0	21.1	5 31	17 31.82	-36 58.0	1.823	2.798	7.1	20.1
6 10	17 21.60	-25 28.4	2.434	3.448	0.9	20.9	6 10	17 21.89	-36 38.1	1.807	2.804	4.9	19.9
6 20	17 13.12	-25 12.7	2.428	3.434	2.9	21.0	6 20	17 11.90	-36 2.8	1.817	2.809	5.6	20.0
6 30	17 5.23	-24 54.5	2.451	3.420	6.1	21.2	6 30	17 3.03	-35 15.1	1.854	2.815	8.3	20.2
7 10	16 58.61	-24 35.5	2.500	3.406	9.1	21.4	7 10	16 56.24	-34 19.9	1.915	2.821	11.4	20.4
7 20	16 53.76	-24 17.6	2.572	3.391	11.7	21.5	7 20	16 52.07	-33 22.5	1.997	2.827	14.2	20.6
<b>367085</b>	2006 QY <sub>31</sub>		6 11.6 292°48	0°8/11.8 18			<b>424464</b>	2008 CF <sub>138</sub>		6 11.6 199°99	1°5/11.8 17		



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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>252699</b>	2002 <i>CD</i> <sub>57</sub>		6 11.6 100°11	5°3/12.7	17		<b>201527</b>	2003 <i>QT</i> <sub>18</sub>		6 11.6 316°27	8°9/12.8	18	
5 11	17 51.33	-35 40.4	1.434	2.306	16.1	19.9	5 11	17 49.58	-43 35.8	1.661	2.506	15.6	19.5
5 21	17 44.20	-35 54.8	1.376	2.313	12.3	19.7	5 21	17 43.31	-44 30.9	1.588	2.495	13.0	19.2
5 31	17 34.07	-35 53.8	1.339	2.320	8.3	19.4	5 31	17 33.83	-45 8.1	1.535	2.485	10.5	19.1
6 10	17 22.23	-35 33.7	1.325	2.327	5.5	19.3	6 10	17 22.28	-45 20.9	1.505	2.474	9.0	19.0
6 20	17 10.30	-34 54.6	1.337	2.333	6.5	19.4	6 20	17 10.23	-45 6.2	1.499	2.464	9.5	19.0
6 30	16 59.95	-34 0.6	1.373	2.340	10.1	19.6	6 30	16 59.46	-44 25.8	1.516	2.455	11.6	19.1
7 10	16 52.40	-32 58.9	1.432	2.346	13.9	19.8	7 10	16 51.42	-43 26.1	1.555	2.446	14.4	19.2
7 20	16 48.25	-31 56.4	1.510	2.353	17.4	20.1	7 20	16 46.92	-42 15.3	1.613	2.437	17.3	19.4
<b>250703</b>	2005 <i>QK</i> <sub>177</sub>		6 11.6 329°14	1°8/11.6	16		<b>316317</b>	2010 <i>RF</i> <sub>101</sub>		6 11.6 31°64	0°1/11.7	17	
5 11	17 41.66	-17 20.7	1.471	2.366	14.4	19.9	5 11	17 45.74	-24 21.5	1.179	2.081	16.7	19.8
5 21	17 37.40	-17 47.1	1.378	2.335	10.6	19.6	5 21	17 40.27	-24 5.9	1.129	2.089	12.0	19.6
5 31	17 30.52	-18 21.0	1.307	2.304	6.2	19.3	5 31	17 31.92	-23 45.7	1.099	2.098	6.6	19.3
6 10	17 21.78	-19 2.0	1.260	2.274	2.0	18.9	6 10	17 21.97	-23 21.3	1.092	2.107	1.0	19.0
6 20	17 12.29	-19 48.6	1.238	2.245	4.8	19.0	6 20	17 11.96	-22 54.2	1.109	2.117	4.7	19.3
6 30	17 3.41	-20 39.0	1.240	2.217	9.8	19.2	6 30	17 3.44	-22 27.7	1.148	2.127	10.1	19.6
7 10	16 56.47	-21 32.1	1.265	2.190	14.5	19.4	7 10	16 57.59	-22 5.2	1.210	2.139	14.7	19.9
7 20	16 52.39	-22 26.6	1.308	2.165	18.7	19.6	7 20	16 54.97	-21 49.1	1.289	2.150	18.6	20.2
<b>123108</b>	2000 <i>SM</i> <sub>351</sub>		6 11.6 205°37	3°1/11.3	18		<b>295138</b>	2008 <i>FT</i> <sub>32</sub>		6 11.6 109°89	0°8/11.5	17	
5 11	17 45.26	-13 6.3	2.368	3.232	10.9	20.8	5 11	17 47.02	-21 49.0	1.577	2.463	14.1	21.5
5 21	17 38.86	-13 1.6	2.289	3.226	8.1	20.6	5 21	17 40.67	-21 38.5	1.516	2.469	10.1	21.3
5 31	17 30.81	-13 2.2	2.235	3.220	5.1	20.4	5 31	17 31.99	-21 26.8	1.479	2.475	5.6	21.1
6 10	17 21.79	-13 8.7	2.208	3.213	3.2	20.3	6 10	17 21.99	-21 14.0	1.466	2.481	1.1	20.8
6 20	17 12.55	-13 21.4	2.210	3.205	4.5	20.3	6 20	17 11.85	-21 0.8	1.480	2.487	4.2	21.0
6 30	17 3.91	-13 40.4	2.240	3.196	7.4	20.5	6 30	17 2.85	-20 49.0	1.520	2.492	8.7	21.3
7 10	16 56.61	-14 5.4	2.296	3.187	10.4	20.7	7 10	16 55.96	-20 40.7	1.583	2.498	12.8	21.5
7 20	16 51.16	-14 35.5	2.375	3.178	13.0	20.9	7 20	16 51.77	-20 37.1	1.666	2.503	16.2	21.8
<b>284874</b>	2009 <i>DX</i> <sub>39</sub>		6 11.6 250°33	6°1/10.9	17		<b>434130</b>	2002 <i>QS</i> <sub>81</sub>		6 11.6 306°27	1°8/11.5	17	
5 11	17 42.34	- 6 7.2	2.043	2.903	12.5	20.9	5 11	17 43.41	-18 21.0	1.711	2.598	13.2	21.3
5 21	17 36.88	- 5 40.8	1.977	2.902	9.8	20.7	5 21	17 38.23	-18 22.0	1.626	2.578	9.6	21.0
5 31	17 29.74	- 5 25.4	1.933	2.900	7.4	20.6	5 31	17 30.78	-18 26.1	1.563	2.558	5.6	20.8
6 10	17 21.64	- 5 23.3	1.916	2.899	6.1	20.5	6 10	17 21.84	-18 33.4	1.525	2.538	1.9	20.5
6 20	17 13.37	- 5 35.6	1.924	2.898	7.0	20.6	6 20	17 12.45	-18 43.8	1.514	2.519	4.4	20.6
6 30	17 5.80	- 6 2.0	1.958	2.896	9.4	20.7	6 30	17 3.76	-18 57.9	1.528	2.499	8.8	20.8
7 10	16 59.69	- 6 41.0	2.015	2.895	12.1	20.9	7 10	16 56.84	-19 16.1	1.565	2.481	12.9	21.0
7 20	16 55.52	- 7 30.1	2.094	2.893	14.6	21.0	7 20	16 52.42	-19 38.5	1.623	2.462	16.5	21.2
<b>316046</b>	2009 <i>HC</i> <sub>16</sub>		6 11.6 204°69	0°1/11.6	16		<b>441385</b>	2008 <i>FU</i>		6 11.6 326°84	8°1/13.2	18	
5 11	17 49.17	-22 25.9	1.703	2.582	13.6	21.6	5 11	17 48.78	-45 39.4	2.082	2.906	13.6	20.2
5 21	17 42.29	-22 43.7	1.629	2.578	9.8	21.4	5 21	17 42.18	-46 21.1	2.010	2.901	11.4	20.0
5 31	17 32.96	-23 1.1	1.579	2.574	5.5	21.1	5 31	17 32.95	-46 45.6	1.959	2.896	9.4	19.9
6 10	17 22.12	-23 16.5	1.555	2.569	0.8	20.7	6 10	17 22.14	-46 48.3	1.933	2.891	8.2	19.8
6 20	17 10.92	-23 28.9	1.557	2.564	4.0	21.0	6 20	17 11.06	-46 27.5	1.931	2.886	8.5	19.8
6 30	17 0.66	-23 38.7	1.587	2.558	8.6	21.2	6 30	17 1.11	-45 44.9	1.954	2.881	10.1	19.9
7 10	16 52.44	-23 47.3	1.641	2.552	12.7	21.5	7 10	16 53.44	-44 46.1	2.000	2.877	12.3	20.0
7 20	16 46.95	-23 56.5	1.715	2.545	16.1	21.7	7 20	16 48.71	-43 37.4	2.067	2.873	14.6	20.2
<b>387223</b>	2012 <i>UQ</i> <sub>30</sub>		6 11.6 284°32	0°3/11.7	18		<b>279089</b>	2008 <i>WO</i> <sub>130</sub>		6 11.6 296°56	3°7/11.6	18	
5 11	17 44.79	-23 10.2	1.876	2.757	12.4	20.9	5 11	17 45.21	-12 39.0	1.714	2.591	13.6	19.8
5 21	17 38.97	-23 23.9	1.801	2.752	9.0	20.7	5 21	17 39.60	-12 51.0	1.620	2.565	10.3	19.6
5 31	17 31.05	-23 36.5	1.750	2.746	5.0	20.4	5 31	17 31.61	-13 12.6	1.549	2.538	6.5	19.3
6 10	17 21.84	-23 47.0	1.726	2.741	0.8	20.1	6 10	17 21.98	-13 44.5	1.504	2.511	3.8	19.0
6 20	17 12.34	-23 54.8	1.728	2.735	3.6	20.3	6 20	17 11.73	-14 26.2	1.485	2.484	5.5	19.1
6 30	17 3.66	-24 0.3	1.757	2.730	7.8	20.6	6 30	17 2.05	-15 16.5	1.492	2.457	9.5	19.2
7 10	16 56.74	-24 4.9	1.811	2.724	11.5	20.8	7 10	16 54.07	-16 13.8	1.522	2.430	13.7	19.4
7 20	16 52.19	-24 10.2	1.885	2.719	14.7	21.0	7 20	16 48.60	-17 16.1	1.573	2.403	17.3	19.6
<b>146855</b>	2002 <i>AH</i> <sub>121</sub>		6 11.6 91°93	1°1/11.9	17		<b>71822</b>	2000 <i>UZ</i> <sub>35</sub>		6 11.6 97°92	1°1/11.8	18	
5 11	17 44.67	-26 44.8	2.414	3.284	10.5	20.6	5 11	17 50.54	-25 14.3	1.523	2.405	14.8	18.7
5 21	17 38.31	-26 49.5	2.360	3.304	7.5	20.4	5 21	17 43.19	-25 29.6	1.474	2.424	10.6	18.5
5 31	17 30.42	-26 50.1	2.332	3.325	4.3	20.2	5 31	17 33.36	-25 40.8	1.448	2.443	5.9	18.3
6 10	17 21.73	-26 45.8	2.331	3.345	1.3	20.0	6 10	17 22.19	-25 46.1	1.447	2.462	1.4	18.0
6 20	17 13.04	-26 37.0	2.359	3.365	3.0	20.2	6 20	17 11.03	-25 45.2	1.473	2.480	4.2	18.3
6 30	17 5.18	-26 24.8	2.415	3.384	6.2	20.4	6 30	17 1.23	-25 39.5	1.525	2.497	8.7	18.6
7 10	16 58.80	-26 11.1	2.497	3.403	9.1	20.7	7 10	16 53.80	-25 32.0	1.600	2.514	12.7	18.9
7 20	16 54.33	-25 57.7	2.602	3.422	11.5	20.9	7 20	16 49.29	-25 25.3	1.695	2.531	16.0	19.1
<b>318591</b>	2005 <i>HM</i> <sub>2</sub>		6 11.6 0°76	2°3/11.4	17		<b>482138</b>	2010 <i>RL</i> <sub>176</sub>		6 11.6 282°40	4°1/10.6	16	
5 11	17 40.93	-19 40.3	1.030	1.945	17.4	19.7	5 11	17 41.13	-12 17.7	2.278	3.149	11.0	21.6
5 21	17 37.15	-19 21.0	0.976	1.942	12.6	19.4	5 21	17 35.97	-11 38.9	2.199	3.138	8.2	21.4
5 31	17 30.36	-19 3.5	0.940	1.940	7.2	19.1	5 31	17 29.25	-11 4.8	2.144	3.126	5.6	21.2
6 10	17 21.75	-18 49.3	0.926	1.939	2.4	18.8	6 10	17 21.61	-10 37.4	2.116	3.115	4.1	21.1
6 20	17 12.87	-18 40.0	0.933	1.941	5.7	19.0	6 20	17 13.78	-10 18.5	2.116	3.104	5.3	21.1
6 30	17 5.36	-18 37.4	0.962	1.943	11.2	19.4	6 30	17 6.55	-10 9.4	2.142	3.092	8.0	21.3
7 10	17 0.53	-18 42.9	1.010	1.947	16.2	19.6	7 10	17 0.60	-10 10.4	2.192	3.081	10.9	21.4
7 20	16 59.06	-18 56.3	1.076	1.953	20.4	19.9	7 20	16 56.45	-10 21.0	2.264	3.070	13.5	21.6
<b>127243</b>	2002 <i>JH</i> <sub>28</sub>		6 11.6 4°01	4°6/11.5	18								

EPHEMERIDES

6 11.7

6 11.7

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>310088</b>	2010 <i>MD</i> <sub>104</sub>		6 11.7 342°54	0°6/11.8 16			<b>546</b>	Herodias		6 11.7 121°18	7°3/12.4 18		
5 11	17 42.29	-25 53.6	1.816	2.702	12.6	20.6	5 11	17 52.73	-40 53.2	1.907	2.747	14.0	14.1
5 21	17 37.22	-25 38.0	1.742	2.695	9.1	20.4	5 21	17 45.03	-41 58.3	1.848	2.757	11.3	13.9
5 31	17 30.09	-25 17.2	1.692	2.688	5.1	20.1	5 31	17 34.58	-42 48.6	1.813	2.767	8.8	13.8
6 10	17 21.74	-24 51.5	1.667	2.682	1.0	19.8	6 10	17 22.45	-43 18.6	1.802	2.776	7.3	13.7
6 20	17 13.20	-24 21.8	1.669	2.676	3.6	20.0	6 20	17 10.04	-43 25.7	1.817	2.785	7.9	13.8
6 30	17 5.53	-23 50.4	1.697	2.671	7.8	20.2	6 30	16 58.85	-43 11.4	1.858	2.794	10.0	13.9
7 10	16 59.66	-23 20.3	1.748	2.667	11.6	20.5	7 10	16 50.10	-42 40.9	1.922	2.803	12.6	14.1
7 20	16 56.14	-22 54.0	1.821	2.663	14.8	20.7	7 20	16 44.45	-42 0.6	2.006	2.811	15.0	14.3
<b>481009</b>	2004 <i>RQ</i> <sub>123</sub>		6 11.7 284°89	3°8/12.7 17			<b>522359</b>	2016 <i>CN</i> <sub>299</sub>		6 11.7 119°44	3°0/11.5 17		
5 11	17 46.29	-35 53.4	2.384	3.237	11.2	21.7	5 11	17 47.78	-15 43.5	1.404	2.291	15.5	21.8
5 21	17 39.93	-35 49.5	2.285	3.212	8.6	21.5	5 21	17 41.47	-15 47.2	1.343	2.295	11.3	21.5
5 31	17 31.57	-35 34.2	2.209	3.186	5.9	21.3	5 31	17 32.59	-15 57.5	1.305	2.298	6.7	21.3
6 10	17 21.97	-35 5.9	2.161	3.160	3.9	21.1	6 10	17 22.16	-16 14.5	1.291	2.302	3.1	21.1
6 20	17 12.06	-34 24.4	2.140	3.134	4.6	21.1	6 20	17 11.49	-16 37.7	1.302	2.305	5.4	21.2
6 30	17 2.87	-33 31.8	2.147	3.108	7.3	21.3	6 30	17 1.96	-17 6.6	1.338	2.308	9.9	21.5
7 10	16 55.31	-32 32.0	2.179	3.082	10.4	21.4	7 10	16 54.70	-17 40.5	1.396	2.311	14.2	21.7
7 20	16 49.99	-31 29.8	2.235	3.055	13.2	21.5	7 20	16 50.37	-18 18.6	1.474	2.314	17.8	22.0
<b>369961</b>	1994 <i>SL</i> <sub>12</sub>		6 11.7 337°06	7°9/11.9 17			<b>52089</b>	2027 <i>P-L</i>		6 11.7 249°79	0°3/11.7 18		
5 11	17 48.04	-37 20.0	1.314	2.191	16.9	20.2	5 11	17 47.68	-24 23.0	1.867	2.744	12.7	20.0
5 21	17 42.57	-38 30.6	1.248	2.183	13.4	20.0	5 21	17 41.20	-24 18.7	1.779	2.727	9.2	19.7
5 31	17 33.60	-39 27.6	1.202	2.176	10.0	19.7	5 31	17 32.41	-24 11.0	1.715	2.710	5.2	19.5
6 10	17 22.29	-40 3.5	1.178	2.169	7.9	19.6	6 10	17 22.15	-23 59.0	1.678	2.692	0.8	19.1
6 20	17 10.37	-40 13.8	1.177	2.162	8.9	19.6	6 20	17 11.48	-23 43.0	1.667	2.674	3.8	19.3
6 30	16 59.80	-39 59.3	1.198	2.157	12.1	19.8	6 30	17 1.60	-23 24.6	1.684	2.655	8.2	19.5
7 10	16 52.21	-39 26.1	1.241	2.152	15.8	20.0	7 10	16 53.55	-23 6.4	1.726	2.636	12.2	19.7
7 20	16 48.49	-38 42.3	1.300	2.148	19.3	20.2	7 20	16 48.02	-22 51.0	1.788	2.616	15.7	19.9
<b>37016</b>	2000 <i>TE</i> <sub>57</sub>		6 11.7 301°34	0°7/11.6 18			<b>289305</b>	2005 <i>AY</i> <sub>10</sub>		6 11.7 60°61	0°2/11.7 17		
5 11	17 44.02	-19 35.9	2.011	2.890	11.8	18.8	5 11	17 46.01	-21 55.6	1.758	2.640	13.1	20.3
5 21	17 38.39	-20 4.4	1.928	2.878	8.5	18.6	5 21	17 39.86	-22 26.9	1.699	2.649	9.4	20.1
5 31	17 30.76	-20 35.9	1.870	2.866	4.8	18.4	5 31	17 31.56	-22 58.7	1.663	2.659	5.2	19.9
6 10	17 21.86	-21 9.1	1.839	2.853	1.0	18.0	6 10	17 22.01	-23 29.2	1.653	2.668	0.8	19.6
6 20	17 12.59	-21 42.8	1.835	2.841	3.5	18.2	6 20	17 12.29	-23 56.8	1.671	2.678	3.7	19.8
6 30	17 3.96	-22 16.2	1.858	2.830	7.5	18.4	6 30	17 3.53	-24 21.2	1.715	2.688	7.9	20.1
7 10	16 56.88	-22 49.0	1.907	2.818	11.2	18.6	7 10	16 56.66	-24 43.1	1.783	2.697	11.6	20.3
7 20	16 51.99	-23 21.7	1.977	2.806	14.3	18.8	7 20	16 52.28	-25 3.8	1.873	2.707	14.8	20.6
<b>16128</b>	Kirfrieda		6 11.7 163°49	0°8/11.5 17			<b>408263</b>	2013 <i>FL</i> <sub>12</sub>		6 11.7 359°41	6°2/11.5 17		
5 11	17 47.77	-21 24.2	1.868	2.745	12.7	19.9	5 11	17 43.82	-11 0.3	1.077	1.977	18.0	20.2
5 21	17 40.96	-21 17.6	1.801	2.750	9.1	19.7	5 21	17 39.13	-10 44.7	1.021	1.975	13.7	19.9
5 31	17 32.09	-21 10.2	1.759	2.754	5.1	19.5	5 31	17 31.48	-10 43.2	0.984	1.974	9.2	19.7
6 10	17 22.04	-21 1.8	1.743	2.758	1.0	19.2	6 10	17 22.02	-10 58.2	0.969	1.973	6.2	19.5
6 20	17 11.84	-20 53.0	1.755	2.761	3.8	19.4	6 20	17 12.23	-11 30.4	0.976	1.973	8.0	19.6
6 30	17 2.59	-20 45.0	1.794	2.764	7.9	19.6	6 30	17 3.72	-12 18.1	1.004	1.974	12.4	19.8
7 10	16 55.18	-20 39.4	1.858	2.766	11.6	19.9	7 10	16 57.79	-13 18.2	1.052	1.976	16.9	20.1
7 20	16 50.18	-20 37.7	1.943	2.767	14.7	20.1	7 20	16 55.17	-14 26.6	1.117	1.979	20.9	20.4
<b>341273</b>	2007 <i>RY</i> <sub>280</sub>		6 11.7 281°65	0°8/11.4 16			<b>24746</b>	1992 <i>RH</i> <sub>3</sub>		6 11.7 287°68	0°8/11.6 18		
5 11	17 44.76	-23 29.2	1.904	2.785	12.3	20.3	5 11	17 47.19	-22 15.2	1.249	2.147	16.3	18.9
5 21	17 38.86	-22 45.1	1.824	2.775	8.9	20.0	5 21	17 41.65	-22 3.9	1.173	2.131	11.9	18.6
5 31	17 30.96	-21 56.1	1.769	2.765	4.9	19.8	5 31	17 32.99	-21 50.5	1.117	2.115	6.7	18.3
6 10	17 21.88	-21 3.7	1.741	2.755	1.0	19.5	6 10	17 22.26	-21 34.9	1.084	2.099	1.2	17.9
6 20	17 12.62	-20 10.3	1.739	2.745	3.8	19.7	6 20	17 10.95	-21 17.9	1.076	2.083	5.1	18.1
6 30	17 4.22	-19 19.4	1.765	2.735	7.9	19.9	6 30	17 0.73	-21 1.9	1.091	2.068	10.7	18.3
7 10	16 57.56	-18 34.1	1.816	2.725	11.7	20.1	7 10	16 53.07	-20 50.0	1.127	2.052	15.9	18.6
7 20	16 53.21	-17 57.0	1.887	2.716	14.9	20.3	7 20	16 48.83	-20 44.5	1.180	2.037	20.3	18.8
<b>339496</b>	2005 <i>GZ</i> <sub>35</sub>		6 11.7 170°82	3°0/11.1 17			<b>28507</b>	2000 <i>CD</i> <sub>87</sub>		6 11.7 345°07	6°3/12.4 18		
5 11	17 43.52	-15 37.6	2.021	2.898	11.9	21.7	5 11	17 45.15	-33 46.8	1.002	1.905	18.9	17.6
5 21	17 37.78	-15 12.2	1.953	2.899	8.7	21.5	5 21	17 40.90	-34 25.3	0.942	1.896	14.5	17.3
5 31	17 30.29	-14 50.3	1.910	2.899	5.3	21.3	5 31	17 32.81	-34 49.2	0.899	1.888	9.8	17.0
6 10	17 21.79	-14 33.1	1.892	2.900	3.0	21.1	6 10	17 22.24	-34 52.7	0.877	1.882	6.5	16.8
6 20	17 13.15	-14 21.9	1.902	2.900	4.7	21.2	6 20	17 11.13	-34 33.1	0.876	1.876	7.9	16.8
6 30	17 5.29	-14 17.8	1.939	2.901	8.0	21.4	6 30	17 1.66	-33 53.7	0.895	1.872	12.4	17.1
7 10	16 58.98	-14 21.2	2.000	2.901	11.2	21.6	7 10	16 55.55	-33 2.4	0.933	1.869	17.3	17.3
7 20	16 54.72	-14 32.0	2.083	2.901	14.1	21.8	7 20	16 53.63	-32 7.5	0.988	1.868	21.6	17.6
<b>501701</b>	2014 <i>UC</i> <sub>11</sub>		6 11.7 190°77	0°1/11.6 17			<b>203010</b>	1999 <i>XJ</i> <sub>181</sub>		6 11.7 265°80	2°7/12.2 18		
5 11	17 48.72	-24 30.1	1.614	2.496	14.1	22.1	5 11	17 48.37	-31 23.1	2.265	3.126	11.4	20.9
5 21	17 41.96	-24 5.4	1.545	2.496	10.2	21.9	5 21	17 41.56	-31 29.7	2.162	3.098	8.5	20.6
5 31	17 32.77	-23 35.7	1.499	2.495	5.7	21.6	5 31	17 32.59	-31 28.5	2.083	3.069	5.4	20.4
6 10	17 22.16	-23 1.3	1.479	2.494	0.8	21.3	6 10	17 22.19	-31 17.4	2.031	3.039	2.8	20.1
6 20	17 11.38	-22 23.8	1.485	2.492	4.1	21.5	6 20	17 11.33	-30 55.8	2.008	3.009	4.1	20.2
6 30	17 1.73	-21 46.3	1.517	2.490	8.8	21.8	6 30	17 1.10	-30 25.0	2.013	2.978	7.5	20.3
7 10	16 54.24	-21 12.4	1.574	2.487	13.0	22.0	7 10	16 52.48	-29 48.2	2.043	2.946	10.9	20.5
7 20	16 49.53	-20 45.0	1.650	2.484	16.5	22.2	7 20	16 46.19	-29 9.4	2.096	2.914	14.0	20.6
<b>123377</b>	2000 <i>WA</i> <sub>45</sub>		6 11.7 244°22	0°8/11.5 17			<b>123248</b>	2000 <i>UT</i> <					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	
<b>240370</b>	2003 <i>SS</i> <sub>219</sub>	6 11.7 222°50 3°5/12.0 17						<b>78397</b>	2002 <i>QE</i> <sub>2</sub>	6 11.7 151°19 1°2/11.4 18				
5 11	17 47.67	-32 12.5	2.205	3.067	11.6	20.9	5 11	17 44.28	-20 50.7	1.962	2.843	12.0	19.8	
5 21	17 41.01	-32 47.7	2.126	3.060	8.8	20.7	5 21	17 38.44	-20 32.7	1.894	2.844	8.6	19.5	
5 31	17 32.24	-33 15.8	2.070	3.053	5.7	20.5	5 31	17 30.72	-20 14.0	1.850	2.845	4.8	19.3	
6 10	17 22.15	-33 34.0	2.042	3.045	3.6	20.3	6 10	17 21.93	-19 55.3	1.832	2.846	1.3	19.1	
6 20	17 11.72	-33 40.8	2.041	3.037	4.6	20.4	6 20	17 13.01	-19 37.6	1.841	2.847	3.7	19.2	
6 30	17 2.05	-33 36.7	2.068	3.029	7.6	20.5	6 30	17 4.92	-19 22.5	1.878	2.848	7.6	19.5	
7 10	16 54.08	-33 24.2	2.119	3.020	10.7	20.7	7 10	16 58.49	-19 11.4	1.939	2.848	11.1	19.7	
7 20	16 48.47	-33 7.0	2.193	3.011	13.5	20.9	7 20	16 54.24	-19 5.5	2.021	2.849	14.1	19.9	
<b>286528</b>	2002 <i>CG</i> <sub>76</sub>	6 11.7 148°31 4°0/11.1 18						<b>359402</b>	2010 <i>JN</i> <sub>43</sub>	6 11.7 98°63 1°3/11.6 17				
5 11	17 41.90	-9 46.7	2.532	3.392	10.4	20.7	5 11	17 49.02	-19 49.8	1.332	2.223	15.9	20.8	
5 21	17 36.33	-9 32.2	2.466	3.397	7.9	20.6	5 21	17 42.44	-19 53.8	1.277	2.232	11.4	20.6	
5 31	17 29.41	-9 24.7	2.426	3.402	5.4	20.4	5 31	17 33.15	-19 59.8	1.244	2.241	6.4	20.3	
6 10	17 21.72	-9 25.2	2.412	3.407	4.1	20.3	6 10	17 22.29	-20 7.0	1.236	2.250	1.6	20.0	
6 20	17 13.93	-9 34.4	2.426	3.411	5.0	20.4	6 20	17 11.29	-20 15.2	1.252	2.259	4.8	20.3	
6 30	17 6.74	-9 52.1	2.468	3.415	7.3	20.6	6 30	17 1.61	-20 25.0	1.293	2.267	9.7	20.6	
7 10	17 0.75	-10 17.8	2.535	3.419	9.8	20.7	7 10	16 54.41	-20 37.7	1.356	2.276	14.2	20.9	
7 20	16 56.38	-10 50.1	2.625	3.423	12.0	20.9	7 20	16 50.31	-20 53.8	1.439	2.284	17.9	21.1	
<b>434459</b>	2005 <i>QC</i> <sub>26</sub>	6 11.7 305°99 0°5/11.6 18						<b>357807</b>	2005 <i>TB</i> <sub>155</sub>	6 11.7 203°53 3°9/12.4 18				
5 11	17 42.80	-21 36.5	2.008	2.890	11.7	21.5	5 11	17 45.95	-36 34.1	2.770	3.615	10.0	21.5	
5 21	17 37.49	-21 37.3	1.928	2.879	8.4	21.3	5 21	17 39.44	-36 57.4	2.691	3.611	7.8	21.3	
5 31	17 30.27	-21 37.9	1.871	2.867	4.7	21.1	5 31	17 31.23	-37 11.7	2.637	3.607	5.5	21.1	
6 10	17 21.86	-21 37.9	1.841	2.855	0.8	20.7	6 10	17 22.01	-37 15.0	2.610	3.602	4.0	21.0	
6 20	17 13.16	-21 37.5	1.837	2.844	3.5	20.9	6 20	17 12.60	-37 6.5	2.611	3.597	4.6	21.1	
6 30	17 5.16	-21 37.4	1.861	2.833	7.4	21.1	6 30	17 3.86	-36 47.2	2.640	3.592	6.6	21.2	
7 10	16 58.73	-21 38.8	1.909	2.822	11.1	21.3	7 10	16 56.56	-36 19.8	2.695	3.586	9.0	21.3	
7 20	16 54.45	-21 42.8	1.978	2.811	14.2	21.5	7 20	16 51.21	-35 47.5	2.773	3.581	11.2	21.5	
<b>368369</b>	2002 <i>QK</i> <sub>154</sub>	6 11.7 242°50 0°5/11.6 17						<b>264236</b>	2010 <i>TG</i> <sub>13</sub>	6 11.7 20°41 2°1/11.2 17				
5 11	17 47.00	-22 54.9	1.616	2.501	13.9	21.8	5 11	17 45.47	-20 53.9	1.250	2.150	16.1	20.0	
5 21	17 40.81	-22 37.9	1.543	2.495	10.0	21.6	5 21	17 40.00	-20 10.9	1.194	2.153	11.6	19.8	
5 31	17 32.21	-22 17.9	1.492	2.489	5.6	21.3	5 31	17 31.82	-19 26.2	1.158	2.156	6.6	19.5	
6 10	17 22.15	-21 55.2	1.467	2.482	0.9	21.0	6 10	17 22.10	-18 42.0	1.146	2.159	2.2	19.2	
6 20	17 11.81	-21 31.0	1.469	2.475	4.2	21.2	6 20	17 12.26	-18 1.6	1.158	2.164	5.3	19.4	
6 30	17 2.47	-21 7.5	1.496	2.468	8.8	21.4	6 30	17 3.76	-17 28.6	1.194	2.168	10.3	19.7	
7 10	16 55.20	-20 47.4	1.546	2.461	13.0	21.7	7 10	16 57.72	-17 5.7	1.250	2.173	14.9	20.0	
7 20	16 50.66	-20 32.9	1.617	2.454	16.6	21.9	7 20	16 54.74	-16 53.8	1.326	2.179	18.7	20.3	
<b>238776</b>	2005 <i>JR</i> <sub>136</sub>	6 11.7 315°32 3°7/11.3 16						<b>422198</b>	2014 <i>RG</i> <sub>44</sub>	6 11.7 92°06 1°4/11.9 17				
5 11	17 42.73	-13 32.1	1.816	2.696	12.9	20.5	5 11	17 49.14	-27 46.7	1.378	2.266	15.7	20.6	
5 21	17 37.50	-13 20.7	1.742	2.687	9.6	20.3	5 21	17 42.57	-27 29.5	1.319	2.271	11.4	20.4	
5 31	17 30.29	-13 15.7	1.691	2.679	6.1	20.1	5 31	17 33.23	-27 3.6	1.281	2.276	6.5	20.1	
6 10	17 21.87	-13 18.5	1.665	2.671	3.7	19.9	6 10	17 22.33	-26 28.6	1.268	2.281	1.8	19.8	
6 20	17 13.18	-13 29.5	1.666	2.663	5.3	20.0	6 20	17 11.34	-25 46.2	1.279	2.287	4.5	20.0	
6 30	17 5.23	-13 49.1	1.692	2.656	8.8	20.2	6 30	17 1.75	-25 0.4	1.316	2.292	9.4	20.3	
7 10	16 58.93	-14 16.6	1.742	2.648	12.3	20.4	7 10	16 54.72	-24 16.2	1.375	2.297	13.9	20.6	
7 20	16 54.86	-14 50.9	1.813	2.641	15.5	20.6	7 20	16 50.83	-23 37.7	1.454	2.302	17.6	20.8	
<b>146279</b>	2001 <i>FT</i> <sub>68</sub>	6 11.7 10°37 0°6/11.6 17						<b>231911</b>	2000 <i>YW</i> <sub>92</sub>	6 11.7 255°31 3°9/11.4 18				
5 11	17 44.04	-21 5.1	1.145	2.050	16.8	19.2	5 11	17 45.38	-11 51.9	2.043	2.910	12.2	20.2	
5 21	17 39.27	-21 20.0	1.090	2.052	12.1	19.0	5 21	17 39.32	-11 49.4	1.955	2.893	9.2	20.0	
5 31	17 31.56	-21 36.5	1.055	2.054	6.7	18.7	5 31	17 31.32	-11 54.3	1.892	2.876	6.0	19.7	
6 10	17 22.06	-21 53.5	1.043	2.058	1.1	18.3	6 10	17 22.07	-12 7.6	1.855	2.858	3.9	19.6	
6 20	17 12.30	-22 10.0	1.054	2.062	4.9	18.6	6 20	17 12.44	-12 29.6	1.846	2.840	5.3	19.6	
6 30	17 3.88	-22 26.2	1.088	2.068	10.3	18.9	6 30	17 3.40	-13 0.1	1.863	2.821	8.5	19.8	
7 10	16 58.07	-22 43.2	1.142	2.074	15.1	19.2	7 10	16 55.84	-13 38.1	1.906	2.802	11.9	20.0	
7 20	16 55.56	-23 1.9	1.214	2.082	19.2	19.5	7 20	16 50.39	-14 22.5	1.970	2.782	15.0	20.1	
<b>293735</b>	2007 <i>RB</i> <sub>32</sub>	6 11.7 330°63 6°3/11.6 17						<b>400395</b>	2008 <i>AL</i> <sub>77</sub>	6 11.7 76°33 1°7/11.6 17				
5 11	17 41.99	-10 47.1	1.026	1.931	18.3	19.7	5 11	17 43.93	-17 1.8	2.111	2.987	11.5	20.8	
5 21	17 38.19	-10 39.8	0.957	1.913	14.0	19.4	5 21	17 38.04	-17 14.8	2.051	2.998	8.3	20.6	
5 31	17 31.21	-10 48.3	0.906	1.896	9.5	19.1	5 31	17 30.45	-17 31.4	2.016	3.009	4.8	20.4	
6 10	17 22.05	-11 15.8	0.875	1.880	6.4	18.9	6 10	17 21.92	-17 51.2	2.008	3.020	1.9	20.2	
6 20	17 12.19	-12 2.9	0.866	1.866	8.2	18.9	6 20	17 13.29	-18 13.6	2.027	3.031	3.7	20.4	
6 30	17 3.37	-13 7.5	0.877	1.852	13.0	19.1	6 30	17 5.42	-18 38.4	2.074	3.042	7.1	20.6	
7 10	16 57.17	-14 25.6	0.908	1.840	18.1	19.4	7 10	16 59.07	-19 5.3	2.146	3.053	10.3	20.8	
7 20	16 54.52	-15 52.2	0.955	1.829	22.6	19.6	7 20	16 54.72	-19 34.2	2.240	3.064	13.1	21.0	
<b>199198</b>	2006 <i>AC</i> <sub>5</sub>	6 11.7 180°87 3°2/12.0 17						<b>378301</b>	2007 <i>EH</i> <sub>200</sub>	6 11.7 64°67 6°3/12.0 17				
5 11	17 52.43	-30 17.2	1.711	2.580	14.1	21.8	5 11	17 50.81	-35 55.8	1.581	2.448	15.2	20.7	
5 21	17 44.75	-30 44.2	1.642	2.582	10.4	21.6	5 21	17 43.88	-37 4.7	1.528	2.459	11.7	20.5	
5 31	17 34.42	-31 3.3	1.595	2.583	6.4	21.4	5 31	17 34.05	-38 1.2	1.497	2.471	8.4	20.3	
6 10	17 22.48	-31 11.2	1.575	2.583	3.3	21.2	6 10	17 22.47	-38 39.7	1.491	2.483	6.4	20.2	
6 20	17 10.25	-31 6.6	1.581	2.583	4.9	21.3	6 20	17 10.64	-38 57.1	1.510	2.496	7.3	20.3	
6 30	16 59.15	-30 51.1	1.615	2.581	8.8	21.5	6 30	17 0.13	-38 54.6	1.553	2.508	10.2	20.5	
7 10	16 50.35	-30 28.6	1.672	2.579	12.7	21.7	7 10	16 52.21	-38 37.3	1.620	2.520	13.4	20.7	
7 20	16 44.54	-30 3.7	1.750	2.576	16.0	21.9	7 20	16 47.56	-38 11.1	1.706	2.533	16.3	21.0	
<b>390154</b>	2012 <i>VJ</i> <sub>91</sub>	6 11.7 320°44 1°4/11.5 18						<b>31308</b>	1998 <i>FK</i> <sub>113</sub>	6 11.7 89°19 0°0/11.7 18				
5 11	17 43.57	-19 38.2	1.864	2.747	12.4	21.4	5 11	17 44.04	-24 22.4	2.172	3.048	11.2	18.9	
5 21	17 38.06	-19 30.3	1.792	2.										

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>355184</b>	2006 <i>WO</i> <sub>109</sub>		6 11.7 192°91		0°1/11.7 18		<b>106468</b>	2000 <i>WO</i> <sub>7</sub>		6 11.7 141°50		0°1/11.7 18	
5 11	17 43.47	-22 38.3	2.575	3.446	9.8	22.0	5 11	17 49.06	-24 25.8	1.607	2.489	14.1	20.1
5 21	17 37.58	-22 43.2	2.499	3.444	7.1	21.8	5 21	17 42.19	-24 12.1	1.546	2.496	10.2	19.9
5 31	17 30.18	-22 47.0	2.448	3.443	3.9	21.6	5 31	17 32.94	-23 54.1	1.507	2.502	5.7	19.6
6 10	17 21.90	-22 49.3	2.426	3.441	0.6	21.3	6 10	17 22.34	-23 31.8	1.494	2.509	0.9	19.3
6 20	17 13.46	-22 50.2	2.432	3.438	2.8	21.5	6 20	17 11.64	-23 6.2	1.507	2.514	4.0	19.6
6 30	17 5.62	-22 50.1	2.467	3.436	6.1	21.7	6 30	17 2.11	-22 39.8	1.547	2.520	8.6	19.8
7 10	16 59.06	-22 50.1	2.528	3.433	9.0	21.9	7 10	16 54.77	-22 15.7	1.610	2.524	12.7	20.1
7 20	16 54.25	-22 51.3	2.612	3.430	11.6	22.1	7 20	16 50.20	-21 56.4	1.694	2.529	16.1	20.3
<b>336507</b>	2008 <i>WR</i> <sub>121</sub>		6 11.7 289°60		2°0/12.2 18		<b>279256</b>	2009 <i>VS</i> <sub>48</sub>		6 11.7 123°90		4°9/11.5 18	
5 11	17 48.21	-29 57.9	1.816	2.689	13.2	21.4	5 11	17 55.73	-34 27.8	2.249	3.092	12.1	21.1
5 21	17 41.87	-29 38.0	1.713	2.657	9.8	21.1	5 21	17 46.84	-35 58.0	2.190	3.110	9.3	21.0
5 31	17 32.98	-29 7.7	1.632	2.624	5.9	20.8	5 31	17 35.55	-37 19.7	2.158	3.128	6.5	20.8
6 10	17 22.36	-28 25.5	1.578	2.590	2.3	20.5	6 10	17 22.74	-38 27.4	2.155	3.145	5.0	20.8
6 20	17 11.18	-27 32.2	1.551	2.556	4.2	20.6	6 20	17 9.57	-39 17.3	2.181	3.161	5.9	20.9
6 30	17 0.77	-26 30.9	1.550	2.522	8.7	20.8	6 30	16 57.30	-39 49.2	2.236	3.177	8.3	21.0
7 10	16 52.32	-25 26.9	1.574	2.488	13.0	20.9	7 10	16 47.00	-40 5.8	2.316	3.192	10.9	21.2
7 20	16 46.62	-24 25.6	1.620	2.453	16.8	21.1	7 20	16 39.36	-40 11.3	2.419	3.206	13.3	21.4
<b>227570</b>	2005 <i>YH</i> <sub>210</sub>		6 11.7 211°41		1°2/11.8 17		<b>48402</b>	1981 <i>EH</i> <sub>28</sub>		6 11.7 148°32		1°2/11.9 18	
5 11	17 47.80	-24 51.0	1.977	2.851	12.2	20.7	5 11	17 48.22	-26 0.8	1.706	2.586	13.6	19.1
5 21	17 41.18	-25 23.0	1.900	2.847	8.9	20.5	5 21	17 41.60	-26 10.7	1.642	2.590	9.8	18.9
5 31	17 32.40	-25 53.4	1.848	2.842	5.1	20.2	5 31	17 32.63	-26 16.2	1.600	2.594	5.6	18.6
6 10	17 22.26	-26 19.8	1.823	2.837	1.4	20.0	6 10	17 22.30	-26 15.9	1.584	2.598	1.5	18.4
6 20	17 11.78	-26 40.8	1.826	2.832	3.7	20.1	6 20	17 11.78	-26 9.4	1.595	2.601	4.0	18.6
6 30	17 2.08	-26 56.2	1.856	2.826	7.6	20.3	6 30	17 2.32	-25 58.3	1.632	2.604	8.3	18.8
7 10	16 54.14	-27 7.4	1.911	2.820	11.3	20.6	7 10	16 54.93	-25 45.2	1.693	2.607	12.2	19.1
7 20	16 48.61	-27 16.5	1.988	2.813	14.4	20.8	7 20	16 50.23	-25 32.9	1.775	2.610	15.5	19.3
<b>390884</b>	2004 <i>VB</i> <sub>78</sub>		6 11.7 72°38		8°1/10.0 18		<b>387300</b>	2012 <i>VH</i> <sub>8</sub>		6 11.7 168°91		1°7/11.4 17	
5 11	18 1.33	-29 32.5	1.045	1.930	19.7	19.6	5 11	17 44.20	-18 54.3	2.110	2.986	11.5	21.6
5 21	17 53.03	-32 42.8	0.995	1.940	15.0	19.4	5 21	17 38.29	-18 38.5	2.040	2.988	8.3	21.4
5 31	17 39.96	-35 51.5	0.968	1.951	10.4	19.1	5 31	17 30.64	-18 23.6	1.996	2.989	4.7	21.2
6 10	17 23.45	-38 40.0	0.966	1.962	8.1	19.1	6 10	17 22.00	-18 10.3	1.978	2.991	1.8	21.0
6 20	17 5.79	-40 52.7	0.988	1.973	10.3	19.2	6 20	17 13.23	-17 59.5	1.988	2.992	3.8	21.1
6 30	16 49.80	-42 24.1	1.034	1.984	14.5	19.5	6 30	17 5.21	-17 52.2	2.025	2.992	7.3	21.3
7 10	16 37.83	-43 19.8	1.101	1.995	18.8	19.8	7 10	16 58.73	-17 49.5	2.088	2.993	10.6	21.6
7 20	16 31.05	-43 50.4	1.183	2.006	22.3	20.0	7 20	16 54.28	-17 51.9	2.172	2.993	13.5	21.7
<b>237065</b>	2008 <i>SV</i> <sub>203</sub>		6 11.7 242°35		1°9/11.4 17		<b>75145</b>	1999 <i>VJ</i> <sub>93</sub>		6 11.7 111°43		2°5/11.9 18	
5 11	17 44.79	-18 17.5	1.976	2.854	12.1	20.9	5 11	17 50.53	-28 37.4	1.650	2.526	14.2	19.7
5 21	17 38.90	-18 7.6	1.898	2.846	8.8	20.7	5 21	17 43.26	-29 1.2	1.595	2.540	10.3	19.5
5 31	17 31.07	-17 59.5	1.844	2.838	5.1	20.4	5 31	17 33.54	-29 18.2	1.563	2.554	6.1	19.3
6 10	17 22.06	-17 53.6	1.817	2.829	2.0	20.2	6 10	17 22.43	-29 25.8	1.557	2.568	2.7	19.1
6 20	17 12.79	-17 50.7	1.817	2.820	4.1	20.3	6 20	17 11.25	-29 23.4	1.578	2.582	4.5	19.2
6 30	17 4.25	-17 51.4	1.844	2.811	7.9	20.5	6 30	17 1.30	-29 12.6	1.624	2.595	8.5	19.5
7 10	16 57.32	-17 56.8	1.895	2.802	11.4	20.7	7 10	16 53.64	-28 56.9	1.695	2.607	12.3	19.8
7 20	16 52.58	-18 7.1	1.968	2.793	14.6	20.9	7 20	16 48.84	-28 39.8	1.787	2.619	15.5	20.0
<b>387080</b>	2012 <i>TA</i> <sub>96</sub>		6 11.7 159°22		1°7/11.9 17		<b>480747</b>	2016 <i>NZ</i> <sub>23</sub>		6 11.7 304°36		2°3/12.7 17	
5 11	17 45.83	-27 52.7	2.039	2.913	11.9	21.4	5 11	17 50.93	-34 6.7	1.723	2.588	14.2	19.4
5 21	17 39.62	-28 0.5	1.970	2.915	8.7	21.2	5 21	17 43.62	-32 53.0	1.633	2.571	10.6	19.1
5 31	17 31.44	-28 3.0	1.925	2.917	5.1	21.0	5 31	17 33.77	-31 20.0	1.566	2.554	6.5	18.8
6 10	17 22.11	-27 58.9	1.906	2.918	1.9	20.8	6 10	17 22.47	-29 28.2	1.526	2.537	2.7	18.5
6 20	17 12.61	-27 48.1	1.914	2.919	3.6	20.9	6 20	17 11.06	-27 22.1	1.514	2.520	4.3	18.6
6 30	17 3.99	-27 32.0	1.950	2.921	7.3	21.1	6 30	17 0.90	-25 9.7	1.531	2.504	8.7	18.8
7 10	16 57.09	-27 13.2	2.011	2.922	10.7	21.3	7 10	16 53.05	-23 0.3	1.574	2.487	13.0	19.0
7 20	16 52.48	-26 54.3	2.093	2.923	13.6	21.5	7 20	16 48.11	-21 1.5	1.640	2.471	16.7	19.2
<b>27197</b>	<i>Andrewliu</i>		6 11.7 234°15		0°2/11.7 18		<b>242740</b>	2005 <i>UP</i> <sub>476</sub>		6 11.7 241°23		3°4/11.3 18	
5 11	17 44.29	-23 3.7	2.160	3.037	11.2	19.3	5 11	17 42.09	-11 55.0	2.440	3.306	10.5	20.7
5 21	17 38.42	-22 57.6	2.083	3.031	8.1	19.1	5 21	17 36.64	-11 47.8	2.363	3.300	7.9	20.5
5 31	17 30.75	-22 49.6	2.031	3.026	4.5	18.8	5 31	17 29.70	-11 46.5	2.310	3.293	5.2	20.3
6 10	17 22.01	-22 39.5	2.005	3.020	0.7	18.5	6 10	17 21.88	-11 52.1	2.285	3.286	3.5	20.2
6 20	17 13.07	-22 27.7	2.008	3.014	3.3	18.7	6 20	17 13.87	-12 4.9	2.287	3.279	4.6	20.3
6 30	17 4.86	-22 15.5	2.037	3.008	7.0	19.0	6 30	17 6.41	-12 25.1	2.317	3.272	7.2	20.4
7 10	16 58.17	-22 4.5	2.092	3.002	10.4	19.2	7 10	17 0.17	-12 51.9	2.372	3.265	10.0	20.6
7 20	16 53.54	-21 56.3	2.169	2.995	13.3	19.3	7 20	16 55.63	-13 24.6	2.450	3.257	12.5	20.8
<b>22882</b>	1999 <i>RV</i> <sub>230</sub>		6 11.7 226°96		5°2/11.0 18		<b>141972</b>	2002 <i>PO</i> <sub>125</sub>		6 11.7 288°33		3°1/12.2 18	
5 11	17 44.34	-7 31.4	2.261	3.116	11.6	19.5	5 11	17 47.96	-30 44.8	1.490	2.372	15.0	19.4
5 21	17 38.34	-7 13.6	2.181	3.106	9.0	19.3	5 21	17 42.03	-30 49.1	1.408	2.355	11.2	19.1
5 31	17 30.68	-7 4.9	2.125	3.096	6.6	19.1	5 31	17 33.18	-30 43.3	1.347	2.338	7.0	18.8
6 10	17 22.01	-7 7.2	2.096	3.085	5.2	19.0	6 10	17 22.43	-30 24.8	1.310	2.320	3.3	18.5
6 20	17 13.09	-7 21.2	2.094	3.073	6.2	19.0	6 20	17 11.16	-29 53.2	1.299	2.303	5.1	18.6
6 30	17 4.76	-7 46.9	2.119	3.061	8.6	19.2	6 30	17 0.96	-29 11.1	1.312	2.286	9.7	18.8
7 10	16 57.76	-8 23.3	2.169	3.048	11.4	19.3	7 10	16 53.16	-28 24.1	1.348	2.269	14.2	19.0
7 20	16 52.62	-9 8.4	2.241	3.035	14.0	19.5	7 20	16 48.58	-27 37.5	1.403	2.252	18.1	19.2
<b>179739</b>	2002 <i>RJ</i> <sub>124</sub>		6 11.7 273°82		1°2/11.6 18		<b>181418</b>	2					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>93043</b>	2000 $SF_4$		6 11.7 305°10	5°7/11.5	18		<b>42375</b>	2002 $CA_{233}$		6 11.7 99°33	0°4/11.6	17	
5 11	17 49.80	-33 34.4	1.654	2.524	14.4	18.3	5 11	17 43.34	-22 9.9	2.288	3.164	10.7	20.3
5 21	17 43.36	-34 56.3	1.581	2.516	11.1	18.1	5 21	17 37.57	-22 3.9	2.224	3.172	7.7	20.1
5 31	17 33.96	-36 11.1	1.531	2.509	7.8	17.9	5 31	17 30.21	-21 56.7	2.185	3.180	4.2	19.9
6 10	17 22.56	-37 12.2	1.506	2.502	5.8	17.7	6 10	17 21.97	-21 48.4	2.173	3.188	0.7	19.6
6 20	17 10.50	-37 55.1	1.506	2.495	7.0	17.8	6 20	17 13.65	-21 39.5	2.189	3.196	3.1	19.8
6 30	16 59.38	-38 18.5	1.532	2.488	10.2	18.0	6 30	17 6.08	-21 31.0	2.233	3.203	6.5	20.1
7 10	16 50.58	-38 25.7	1.581	2.481	13.7	18.2	7 10	16 59.94	-21 24.2	2.303	3.211	9.6	20.3
7 20	16 45.01	-38 21.5	1.650	2.475	16.9	18.4	7 20	16 55.70	-21 20.1	2.395	3.219	12.3	20.5
<b>225515</b>	2000 $QD_{156}$		6 11.7 315°57	2°4/11.2	17		<b>307457</b>	2002 $VE_{66}$		6 11.7 74°29	7°4/11.6	18	
5 11	17 44.02	-19 35.1	1.500	2.393	14.3	19.9	5 11	18 2.92	-37 38.8	1.680	2.522	15.6	19.6
5 21	17 38.83	-18 56.6	1.426	2.382	10.4	19.6	5 21	17 52.44	-39 39.4	1.650	2.563	12.2	19.5
5 31	17 31.22	-18 17.2	1.375	2.370	6.1	19.3	5 31	17 38.76	-41 23.4	1.645	2.604	9.1	19.4
6 10	17 22.13	-17 39.0	1.347	2.360	2.5	19.1	6 10	17 23.24	-42 42.3	1.667	2.644	7.5	19.4
6 20	17 12.72	-17 4.6	1.345	2.349	5.1	19.2	6 20	17 7.64	-43 32.0	1.716	2.684	8.3	19.5
6 30	17 4.28	-16 36.9	1.368	2.339	9.6	19.5	6 30	16 53.74	-43 54.1	1.791	2.722	10.6	19.7
7 10	16 57.89	-16 18.2	1.413	2.329	13.9	19.7	7 10	16 42.87	-43 55.2	1.891	2.760	13.3	20.0
7 20	16 54.21	-16 9.6	1.477	2.320	17.6	19.9	7 20	16 35.69	-43 42.9	2.010	2.797	15.6	20.2
<b>120413</b>	4815 $P-L$		6 11.7 206°29	1°5/11.9	18		<b>470812</b>	2008 $VK_{45}$		6 11.7 323°22	3°7/11.3	17	
5 11	17 47.69	-26 55.4	1.979	2.852	12.3	20.4	5 11	17 43.73	-14 1.7	1.732	2.613	13.3	21.6
5 21	17 41.08	-27 8.4	1.904	2.848	8.9	20.2	5 21	17 38.29	-13 47.5	1.663	2.609	9.9	21.3
5 31	17 32.34	-27 16.9	1.852	2.844	5.2	19.9	5 31	17 30.80	-13 39.4	1.616	2.606	6.2	21.1
6 10	17 22.29	-27 19.3	1.827	2.840	1.7	19.7	6 10	17 22.08	-13 38.7	1.595	2.602	3.7	20.9
6 20	17 11.97	-27 15.1	1.829	2.835	3.7	19.8	6 20	17 13.12	-13 46.2	1.601	2.599	5.4	21.0
6 30	17 2.50	-27 5.3	1.859	2.829	7.6	20.1	6 30	17 4.99	-14 2.2	1.631	2.595	9.0	21.2
7 10	16 54.84	-26 52.5	1.914	2.823	11.2	20.3	7 10	16 58.61	-14 26.3	1.685	2.592	12.6	21.4
7 20	16 49.59	-26 39.3	1.990	2.817	14.3	20.5	7 20	16 54.56	-14 57.4	1.760	2.590	15.8	21.7
<b>185644</b>	4890 $P-L$		6 11.7 269°96	1°6/11.9	17		<b>337021</b>	1995 $OH_{13}$		6 11.7 315°40	0°9/11.6	16	
5 11	17 48.93	-26 40.7	1.640	2.520	14.0	21.6	5 11	17 43.80	-21 30.8	1.494	2.388	14.3	21.5
5 21	17 42.57	-26 51.0	1.549	2.497	10.3	21.3	5 21	17 38.84	-21 24.0	1.414	2.370	10.4	21.2
5 31	17 33.46	-26 56.5	1.480	2.474	6.0	21.0	5 31	17 31.34	-21 16.6	1.355	2.353	5.9	20.9
6 10	17 22.49	-26 55.0	1.437	2.451	1.8	20.7	6 10	17 22.18	-21 8.7	1.321	2.336	1.2	20.5
6 20	17 10.87	-26 45.6	1.420	2.426	4.4	20.8	6 20	17 12.55	-21 0.7	1.312	2.319	4.4	20.7
6 30	17 0.07	-26 29.6	1.429	2.402	9.2	21.0	6 30	17 3.80	-20 54.2	1.327	2.303	9.3	20.9
7 10	16 51.38	-26 10.3	1.462	2.377	13.7	21.2	7 10	16 57.11	-20 51.1	1.365	2.288	13.9	21.2
7 20	16 45.65	-25 51.4	1.514	2.351	17.6	21.4	7 20	16 53.25	-20 52.7	1.422	2.273	17.8	21.4
<b>519503</b>	2012 $DS_{105}$		6 11.7 22°42	4°2/11.1	17		<b>325857</b>	2010 $TB_{85}$		6 11.7 114°33	4°4/12.2	17	
5 11	17 44.43	-15 16.4	1.315	2.210	15.8	21.1	5 11	17 51.97	-32 51.7	1.674	2.542	14.4	21.1
5 21	17 39.15	-14 43.7	1.259	2.213	11.6	20.8	5 21	17 44.44	-33 33.7	1.619	2.556	10.8	20.9
5 31	17 31.37	-14 16.6	1.225	2.217	7.2	20.6	5 31	17 34.27	-34 5.5	1.587	2.569	7.1	20.7
6 10	17 22.14	-13 57.7	1.214	2.222	4.2	20.4	6 10	17 22.60	-34 23.2	1.580	2.583	4.5	20.5
6 20	17 12.76	-13 48.9	1.227	2.227	6.3	20.6	6 20	17 10.78	-34 25.2	1.599	2.595	5.7	20.6
6 30	17 4.57	-13 51.4	1.264	2.232	10.5	20.8	6 30	17 0.26	-34 13.2	1.645	2.608	9.0	20.9
7 10	16 58.63	-14 5.0	1.322	2.238	14.7	21.1	7 10	16 52.14	-33 51.6	1.714	2.620	12.5	21.1
7 20	16 55.55	-14 28.5	1.399	2.245	18.3	21.3	7 20	16 47.03	-33 25.3	1.804	2.631	15.6	21.3
<b>145523</b>	Lulin		6 11.7 1°81	8°7/13.1	17		<b>285378</b>	1999 $TK_{134}$		6 11.7 293°30	0°3/11.6	18	
5 11	17 46.39	-41 14.1	1.382	2.249	16.9	18.9	5 11	17 43.42	-22 44.9	2.195	3.072	11.1	21.0
5 21	17 41.24	-42 3.7	1.323	2.247	13.7	18.7	5 21	17 37.97	-22 36.2	2.096	3.045	8.0	20.8
5 31	17 32.80	-42 34.3	1.283	2.246	10.7	18.5	5 31	17 30.64	-22 25.5	2.023	3.018	4.5	20.5
6 10	17 22.37	-42 39.8	1.265	2.247	8.8	18.4	6 10	17 22.08	-22 12.8	1.976	2.990	0.7	20.2
6 20	17 11.62	-42 18.0	1.270	2.248	9.3	18.4	6 20	17 13.13	-21 58.5	1.957	2.963	3.3	20.3
6 30	17 2.39	-41 32.0	1.297	2.251	11.8	18.5	6 30	17 4.73	-21 44.0	1.965	2.936	7.2	20.5
7 10	16 56.05	-40 29.2	1.345	2.254	15.0	18.7	7 10	16 57.76	-21 30.9	1.998	2.908	10.8	20.7
7 20	16 53.33	-39 17.9	1.411	2.259	18.1	19.0	7 20	16 52.84	-21 20.9	2.053	2.880	13.9	20.9
<b>178737</b>	2000 $TG_{23}$		6 11.7 146°44	0°3/11.8	18		<b>174193</b>	2002 $QQ_{17}$		6 11.7 5°20	3°5/12.2	17	
5 11	17 43.56	-24 11.8	2.918	3.784	9.0	21.3	5 11	17 46.86	-30 26.5	1.266	2.158	16.4	19.8
5 21	17 37.45	-24 13.8	2.851	3.794	6.4	21.2	5 21	17 41.36	-30 40.5	1.206	2.158	12.2	19.5
5 31	17 30.05	-24 13.7	2.810	3.804	3.6	21.0	5 31	17 32.80	-30 44.4	1.166	2.158	7.5	19.2
6 10	17 21.94	-24 11.1	2.798	3.813	0.6	20.8	6 10	17 22.41	-30 35.2	1.149	2.159	3.7	19.0
6 20	17 13.75	-24 6.2	2.816	3.822	2.5	20.9	6 20	17 11.75	-30 12.8	1.156	2.161	5.5	19.1
6 30	17 6.17	-23 59.7	2.862	3.830	5.4	21.1	6 30	17 2.51	-29 40.0	1.186	2.163	10.1	19.4
7 10	16 59.76	-23 52.8	2.935	3.838	8.0	21.3	7 10	16 55.98	-29 2.5	1.238	2.165	14.6	19.7
7 20	16 54.93	-23 46.7	3.032	3.845	10.3	21.5	7 20	16 52.85	-28 25.3	1.308	2.168	18.5	19.9
<b>58114</b>	1981 $EL_6$		6 11.7 7°80	2°3/11.1	18		<b>134554</b>	1999 $RE_{169}$		6 11.7 219°34	3°1/12.2	18	
5 11	17 42.37	-19 1.1	1.945	2.828	12.0	19.0	5 11	17 50.06	-30 57.0	1.767	2.637	13.6	20.3
5 21	17 37.07	-18 16.7	1.878	2.829	8.7	18.8	5 21	17 43.10	-31 9.2	1.690	2.630	10.2	20.1
5 31	17 30.00	-17 32.1	1.836	2.830	5.1	18.6	5 31	17 33.60	-31 12.6	1.636	2.623	6.3	19.8
6 10	17 21.94	-16 49.3	1.820	2.831	2.3	18.4	6 10	17 22.53	-31 4.6	1.607	2.616	3.2	19.6
6 20	17 13.78	-16 10.8	1.831	2.832	4.3	18.6	6 20	17 11.13	-30 44.8	1.606	2.608	4.7	19.7
6 30	17 6.45	-15 38.8	1.868	2.834	7.9	18.8	6 30	17 0.76	-30 15.0	1.631	2.599	8.6	19.9
7 10	17 0.72	-15 15.0	1.930	2.837	11.3	19.0	7 10	16 52.54	-29 39.7	1.680	2.590	12.5	20.1
7 20	16 57.08	-15 0.2	2.013	2.839	14.2	19.2	7 20	16 47.16	-29 3.3	1.750	2.581	15.8	20.3
<b>413834</b>	2006 $SR_{22}$		6 11.7 260°33	0°9/11.8	18		<b>498862</b>	2008 $YB_{50}$		6 11.7 109°93	1°1/11.6	17	

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>387876</b>	2004 <i>RX</i> <sub>336</sub>		6 11.7 183°32	4°8/10.5 17			<b>259216</b>	2003 <i>BO</i> <sub>14</sub>		6 11.7 42°39	6°9/11.4 17		
5 11	17 44.45	-10 32.1	2.198	3.062	11.6	22.0	5 11	17 44.63	-7 4.6	1.457	2.333	15.7	19.3
5 21	17 38.37	-9 45.2	2.130	3.062	8.8	21.8	5 21	17 39.07	-6 43.7	1.405	2.341	12.2	19.1
5 31	17 30.68	-9 4.3	2.086	3.062	6.2	21.6	5 31	17 31.28	-6 37.5	1.373	2.348	8.9	18.9
6 10	17 22.09	-8 31.9	2.069	3.062	4.8	21.5	6 10	17 22.22	-6 48.2	1.365	2.357	7.0	18.9
6 20	17 13.36	-8 10.0	2.079	3.061	6.0	21.6	6 20	17 13.04	-7 16.6	1.381	2.365	8.1	18.9
6 30	17 5.35	-8 0.0	2.116	3.059	8.6	21.7	6 30	17 4.91	-8 1.1	1.421	2.374	11.1	19.1
7 10	16 58.76	-8 1.7	2.178	3.058	11.3	21.9	7 10	16 58.79	-8 58.6	1.483	2.383	14.5	19.4
7 20	16 54.06	-8 14.2	2.261	3.055	13.9	22.1	7 20	16 55.26	-10 5.3	1.565	2.392	17.5	19.6
<b>134617</b>	1999 <i>TZ</i> <sub>242</sub>		6 11.7 277°31	4°3/11.1 18			<b>248546</b>	2005 <i>XC</i> <sub>28</sub>		6 11.7 245°37	1°8/12.1 18		
5 11	17 46.33	-13 44.1	1.591	2.472	14.3	19.8	5 11	17 44.15	-28 56.2	2.544	3.410	10.1	21.3
5 21	17 40.57	-13 20.5	1.503	2.449	10.8	19.5	5 21	17 38.25	-29 2.9	2.459	3.399	7.4	21.1
5 31	17 32.31	-13 2.6	1.437	2.425	6.9	19.2	5 31	17 30.70	-29 4.3	2.399	3.388	4.4	20.9
6 10	17 22.37	-12 52.8	1.396	2.401	4.4	19.0	6 10	17 22.14	-28 59.6	2.367	3.377	1.9	20.7
6 20	17 11.86	-12 52.6	1.380	2.377	6.2	19.1	6 20	17 13.35	-28 48.4	2.363	3.366	3.2	20.8
6 30	17 2.06	-13 3.2	1.390	2.353	10.4	19.2	6 30	17 5.18	-28 31.9	2.387	3.355	6.3	21.0
7 10	16 54.15	-13 24.6	1.422	2.328	14.6	19.4	7 10	16 58.38	-28 12.0	2.437	3.343	9.3	21.2
7 20	16 48.92	-13 55.9	1.474	2.303	18.3	19.6	7 20	16 53.45	-27 51.2	2.510	3.331	11.9	21.3
<b>106016</b>	2000 <i>SS</i> <sub>293</sub>		6 11.7 198°55	3°4/12.5 18			<b>177677</b>	2005 <i>EX</i> <sub>138</sub>		6 11.7 292°44	7°1/11.8 17		
5 11	17 45.76	-35 3.2	2.727	3.576	10.0	20.5	5 11	17 50.41	-36 19.7	1.453	2.324	16.0	20.2
5 21	17 39.31	-35 13.7	2.648	3.574	7.6	20.3	5 21	17 44.30	-37 28.5	1.375	2.308	12.6	20.0
5 31	17 31.22	-35 15.6	2.595	3.570	5.2	20.2	5 31	17 34.75	-38 26.3	1.317	2.292	9.2	19.7
6 10	17 22.18	-35 7.2	2.568	3.567	3.5	20.0	6 10	17 22.81	-39 6.0	1.283	2.276	7.2	19.6
6 20	17 12.99	-34 48.4	2.571	3.563	4.1	20.1	6 20	17 10.04	-39 22.6	1.273	2.260	8.2	19.6
6 30	17 4.50	-34 20.4	2.601	3.559	6.4	20.2	6 30	16 58.34	-39 15.9	1.287	2.244	11.6	19.7
7 10	16 57.44	-33 46.0	2.657	3.555	8.9	20.4	7 10	16 49.39	-38 51.0	1.322	2.228	15.4	19.9
7 20	16 52.29	-33 8.5	2.737	3.550	11.2	20.5	7 20	16 44.17	-38 15.2	1.375	2.213	19.0	20.1
<b>389139</b>	2009 <i>AL</i> <sub>43</sub>		6 11.7 254°08	2°0/11.4 16			<b>21233</b>	1995 <i>UU</i> <sub>3</sub>		6 11.7 184°18	1°5/11.9 18		
5 11	17 44.20	-17 43.5	2.041	2.918	11.8	21.9	5 11	17 47.07	-27 27.5	2.363	3.229	10.8	19.6
5 21	17 38.47	-17 33.1	1.962	2.909	8.6	21.7	5 21	17 40.36	-27 39.1	2.288	3.229	7.9	19.4
5 31	17 30.88	-17 24.9	1.907	2.899	5.0	21.4	5 31	17 31.86	-27 46.1	2.238	3.229	4.6	19.2
6 10	17 22.15	-17 19.5	1.878	2.890	2.1	21.2	6 10	17 22.31	-27 47.4	2.216	3.228	1.6	19.0
6 20	17 13.16	-17 17.4	1.877	2.880	4.1	21.3	6 20	17 12.58	-27 42.6	2.222	3.227	3.3	19.1
6 30	17 4.85	-17 19.6	1.903	2.869	7.7	21.5	6 30	17 3.58	-27 32.6	2.257	3.225	6.6	19.3
7 10	16 58.08	-17 26.5	1.953	2.859	11.2	21.7	7 10	16 56.11	-27 19.6	2.318	3.222	9.7	19.5
7 20	16 53.41	-17 38.6	2.025	2.849	14.2	21.9	7 20	16 50.70	-27 5.9	2.401	3.219	12.5	19.7
<b>192344</b>	1995 <i>SY</i> <sub>15</sub>		6 11.7 5°06	3°3/11.3 17			<b>358888</b>	2008 <i>GE</i> <sub>33</sub>		6 11.7 286°97	4°6/10.6 18		
5 11	17 42.28	-17 8.0	1.312	2.212	15.5	19.6	5 11	17 41.40	-10 43.0	2.229	3.097	11.3	20.9
5 21	17 37.70	-16 41.0	1.254	2.212	11.3	19.3	5 21	17 36.29	-10 3.2	2.151	3.087	8.6	20.7
5 31	17 30.64	-16 17.9	1.217	2.212	6.8	19.1	5 31	17 29.61	-9 29.3	2.098	3.076	6.0	20.5
6 10	17 22.11	-16 0.6	1.203	2.214	3.3	18.9	6 10	17 21.99	-9 3.6	2.071	3.065	4.6	20.4
6 20	17 13.39	-15 50.8	1.213	2.216	5.6	19.0	6 20	17 14.17	-8 48.0	2.071	3.055	5.8	20.5
6 30	17 5.80	-15 50.0	1.247	2.220	10.1	19.3	6 30	17 6.94	-8 43.5	2.097	3.044	8.4	20.6
7 10	17 0.42	-15 58.6	1.302	2.225	14.4	19.5	7 10	17 1.03	-8 50.3	2.147	3.034	11.2	20.8
7 20	16 57.85	-16 15.9	1.375	2.230	18.1	19.8	7 20	16 56.92	-9 7.3	2.219	3.023	13.8	20.9
<b>354837</b>	2005 <i>YE</i> <sub>16</sub>		6 11.7 10°45	3°1/12.4 17			<b>164368</b>	2005 <i>EJ</i> <sub>48</sub>		6 11.7 274°24	4°5/12.4 18		
5 11	17 45.49	-30 52.4	1.000	1.906	18.6	19.7	5 11	17 48.00	-35 3.8	1.999	2.859	12.7	20.0
5 21	17 40.78	-30 35.0	0.947	1.907	13.8	19.4	5 21	17 41.63	-35 26.1	1.909	2.840	9.8	19.8
5 31	17 32.60	-30 2.7	0.913	1.909	8.3	19.1	5 31	17 32.85	-35 38.0	1.843	2.821	6.7	19.6
6 10	17 22.41	-29 14.7	0.900	1.913	3.5	18.8	6 10	17 22.50	-35 36.3	1.803	2.802	4.6	19.4
6 20	17 12.09	-28 13.6	0.909	1.917	5.7	19.0	6 20	17 11.71	-35 19.6	1.789	2.782	5.5	19.4
6 30	17 3.53	-27 5.8	0.940	1.923	11.1	19.3	6 30	17 1.75	-34 49.3	1.801	2.763	8.5	19.6
7 10	16 58.13	-25 59.5	0.991	1.930	16.2	19.6	7 10	16 53.71	-34 9.4	1.838	2.743	11.9	19.7
7 20	16 56.48	-25 0.8	1.058	1.937	20.5	19.9	7 20	16 48.33	-33 24.8	1.897	2.723	15.0	19.9
<b>438170</b>	2005 <i>TK</i> <sub>26</sub>		6 11.7 290°40	2°4/11.2 15			<b>286725</b>	2002 <i>GW</i> <sub>112</sub>		6 11.7 351°68	5°9/11.3 17		
5 11	17 43.13	-17 10.8	2.204	3.079	11.1	21.1	5 11	17 39.01	-13 1.1	0.949	1.865	18.4	19.4
5 21	17 37.72	-16 45.4	2.105	3.050	8.2	20.9	5 21	17 36.08	-12 33.4	0.891	1.855	13.9	19.1
5 31	17 30.51	-16 21.2	2.030	3.021	4.9	20.7	5 31	17 30.06	-12 17.2	0.852	1.846	9.1	18.8
6 10	17 22.11	-15 59.5	1.982	2.992	2.5	20.4	6 10	17 22.10	-12 16.4	0.833	1.840	6.0	18.6
6 20	17 13.33	-15 41.5	1.962	2.962	4.3	20.5	6 20	17 13.69	-12 32.8	0.834	1.835	8.1	18.7
6 30	17 5.06	-15 28.9	1.969	2.933	7.7	20.7	6 30	17 6.55	-13 6.4	0.855	1.832	12.8	18.9
7 10	16 58.14	-15 22.8	2.001	2.903	11.2	20.8	7 10	17 2.07	-13 54.6	0.894	1.831	17.7	19.2
7 20	16 53.17	-15 23.7	2.055	2.872	14.3	21.0	7 20	17 1.04	-14 53.4	0.949	1.832	22.0	19.5
<b>91185</b>	1998 <i>RM</i> <sub>57</sub>		6 11.7 300°37	0°4/11.6 18			<b>390481</b>	2014 <i>AU</i>		6 11.7 294°12	0°8/11.7 17		
5 11	17 42.50	-21 58.8	2.170	3.049	11.1	19.2	5 11	17 46.21	-19 31.7	1.673	2.557	13.6	20.1
5 21	17 37.27	-21 56.4	2.082	3.032	8.0	19.0	5 21	17 40.53	-19 59.5	1.584	2.536	9.9	19.9
5 31	17 30.24	-21 53.2	2.018	3.014	4.5	18.7	5 31	17 32.34	-20 31.4	1.518	2.514	5.6	19.6
6 10	17 22.07	-21 49.1	1.981	2.996	0.8	18.4	6 10	17 22.45	-21 6.1	1.478	2.492	1.1	19.2
6 20	17 13.58	-21 44.2	1.972	2.978	3.3	18.6	6 20	17 11.93	-21 41.7	1.464	2.471	4.1	19.4
6 30	17 5.70	-21 39.6	1.990	2.961	7.1	18.8	6 30	17 2.08	-22 17.3	1.476	2.449	8.9	19.6
7 10	16 59.25	-21 36.3	2.032	2.944	10.6	19.0	7 10	16 54.08	-22 52.7	1.512	2.428	13.2	19.8
7 20	16 54.81	-21 35.8	2.097	2.927	13.6	19.1	7 20	16 48.76	-23 28.3	1.568	2.407	17.0	20.0
<b>441412</b>	2008 <i>GH</i> <sub>24</sub>		6 11.7 344°36	9°8/ 8.9 15			<b>471874</b>	2013 <i>AZ</i> <sub>53</sub>					

EPHEMERIDES

6 11.7

6 11.7

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>374288</b>	2005 <i>QE</i> <sub>88</sub>		6 11.7 300°94	0°3/11.8 15			<b>66442</b>	1999 <i>NZ</i> <sub>56</sub>		6 11.7 303°61	7°9/ 9.1 18		
5 11	17 40.48	-24 37.4	2.921	3.792	8.8	22.4	5 11	17 43.01	- 7 59.3	1.620	2.495	14.4	18.3
5 21	17 35.51	-24 35.8	2.820	3.766	6.4	22.2	5 21	17 38.05	- 6 30.5	1.537	2.471	11.5	18.1
5 31	17 29.16	-24 31.8	2.746	3.740	3.6	22.0	5 31	17 30.87	- 5 8.2	1.477	2.447	8.9	17.9
6 10	17 21.94	-24 25.3	2.699	3.714	0.7	21.7	6 10	17 22.27	- 3 58.7	1.441	2.423	7.9	17.8
6 20	17 14.47	-24 16.5	2.682	3.688	2.6	21.9	6 20	17 13.24	- 3 7.2	1.430	2.400	9.4	17.8
6 30	17 7.42	-24 5.9	2.692	3.662	5.6	22.0	6 30	17 4.93	- 2 37.5	1.442	2.377	12.4	17.9
7 10	17 1.41	-23 55.0	2.729	3.636	8.4	22.2	7 10	16 58.36	- 2 30.3	1.476	2.354	15.8	18.1
7 20	16 56.92	-23 45.0	2.790	3.610	10.8	22.3	7 20	16 54.22	- 2 43.7	1.527	2.331	19.0	18.2
<b>472945</b>	2015 <i>GV</i> <sub>28</sub>		6 11.7 354°15	10°3/ 9.2 16			<b>80936</b>	2000 <i>DS</i> <sub>80</sub>		6 11.7 196°88	0°7/11.8 18		
5 11	17 40.24	- 3 29.2	1.378	2.254	16.4	20.3	5 11	17 48.67	-24 58.6	1.976	2.849	12.3	21.0
5 21	17 36.09	- 1 57.3	1.322	2.249	13.5	20.1	5 21	17 41.80	-25 2.6	1.901	2.846	8.9	20.8
5 31	17 29.71	- 0 41.1	1.286	2.245	11.2	20.0	5 31	17 32.81	-25 3.2	1.849	2.843	5.0	20.5
6 10	17 22.03	+ 0 12.6	1.273	2.241	10.3	19.9	6 10	17 22.55	-24 59.3	1.825	2.839	1.0	20.2
6 20	17 14.14	+ 0 39.1	1.281	2.239	11.5	20.0	6 20	17 12.03	-24 50.9	1.828	2.835	3.5	20.4
6 30	17 7.22	+ 0 37.0	1.311	2.238	14.0	20.1	6 30	17 2.37	-24 39.2	1.859	2.830	7.6	20.7
7 10	17 2.24	+ 0 8.6	1.360	2.238	16.9	20.3	7 10	16 54.51	-24 26.5	1.915	2.824	11.3	20.9
7 20	16 59.80	- 0 41.1	1.426	2.238	19.7	20.5	7 20	16 49.05	-24 15.1	1.993	2.818	14.4	21.1
<b>494386</b>	2016 <i>UE</i> <sub>48</sub>		6 11.7 327°03	5°8/12.4 17			<b>384954</b>	2012 <i>TQ</i> <sub>133</sub>		6 11.7 172°02	0°2/11.8 17		
5 11	17 46.67	-38 11.9	2.047	2.900	12.7	21.0	5 11	17 45.82	-23 13.9	2.059	2.935	11.7	21.3
5 21	17 40.64	-38 54.8	1.973	2.894	10.1	20.8	5 21	17 39.65	-23 25.2	1.989	2.937	8.4	21.1
5 31	17 32.27	-39 26.0	1.922	2.889	7.5	20.7	5 31	17 31.57	-23 35.1	1.943	2.938	4.7	20.9
6 10	17 22.44	-39 41.8	1.897	2.884	5.8	20.6	6 10	17 22.35	-23 42.7	1.924	2.939	0.7	20.6
6 20	17 12.28	-39 40.3	1.897	2.878	6.5	20.6	6 20	17 12.94	-23 47.6	1.932	2.939	3.3	20.8
6 30	17 3.02	-39 22.7	1.923	2.874	8.8	20.7	6 30	17 4.32	-23 50.4	1.969	2.940	7.2	21.0
7 10	16 55.72	-38 52.5	1.973	2.869	11.6	20.9	7 10	16 57.33	-23 52.6	2.030	2.940	10.6	21.3
7 20	16 51.04	-38 14.8	2.044	2.865	14.2	21.0	7 20	16 52.53	-23 55.5	2.113	2.940	13.6	21.5
<b>373577</b>	2001 <i>YB</i> <sub>85</sub>		6 11.7 166°89	1°0/11.9 17			<b>142296</b>	2002 <i>RP</i> <sub>144</sub>		6 11.7 152°15	4°0/12.4 18		
5 11	17 47.95	-26 59.3	2.539	3.401	10.3	22.4	5 11	17 50.33	-33 6.2	1.701	2.569	14.2	20.3
5 21	17 40.82	-26 57.3	2.467	3.407	7.4	22.3	5 21	17 43.33	-33 22.3	1.635	2.573	10.7	20.1
5 31	17 32.06	-26 50.7	2.422	3.413	4.3	22.1	5 31	17 33.76	-33 27.5	1.593	2.577	6.9	19.9
6 10	17 22.39	-26 38.8	2.405	3.418	1.2	21.8	6 10	17 22.69	-33 18.9	1.575	2.580	4.1	19.7
6 20	17 12.63	-26 21.9	2.417	3.422	3.0	22.0	6 20	17 11.44	-32 56.1	1.584	2.584	5.3	19.8
6 30	17 3.62	-26 1.4	2.458	3.425	6.2	22.2	6 30	17 1.40	-32 21.6	1.619	2.586	8.8	20.0
7 10	16 56.08	-25 39.4	2.526	3.428	9.2	22.4	7 10	16 53.66	-31 40.3	1.678	2.589	12.4	20.2
7 20	16 50.48	-25 18.2	2.618	3.430	11.7	22.6	7 20	16 48.84	-30 57.4	1.758	2.591	15.7	20.4
<b>177916</b>	2005 <i>SY</i> <sub>166</sub>		6 11.7 268°87	5°0/10.8 18			<b>161781</b>	2006 <i>UX</i> <sub>108</sub>		6 11.7 39°09	3°5/11.7 17		
5 11	17 41.75	- 8 36.9	2.284	3.146	11.3	20.2	5 11	17 47.53	-29 32.8	1.920	2.792	12.6	19.3
5 21	17 36.53	- 8 10.1	2.207	3.137	8.7	20.0	5 21	17 41.17	-30 40.2	1.857	2.799	9.4	19.1
5 31	17 29.76	- 7 51.2	2.155	3.128	6.3	19.8	5 31	17 32.54	-31 43.0	1.819	2.806	5.9	18.9
6 10	17 22.07	- 7 42.2	2.129	3.120	5.0	19.7	6 10	17 22.52	-32 36.9	1.808	2.814	3.5	18.8
6 20	17 14.18	- 7 44.3	2.130	3.111	5.9	19.8	6 20	17 12.18	-33 19.0	1.824	2.821	4.9	18.9
6 30	17 6.87	- 7 57.9	2.158	3.102	8.4	19.9	6 30	17 2.71	-33 48.7	1.866	2.830	8.1	19.1
7 10	17 0.83	- 8 22.2	2.210	3.093	11.1	20.1	7 10	16 55.13	-34 7.6	1.933	2.838	11.4	19.3
7 20	16 56.56	- 8 55.9	2.283	3.084	13.5	20.2	7 20	16 50.10	-34 18.9	2.022	2.847	14.2	19.5
<b>215658</b>	2003 <i>UK</i> <sub>164</sub>		6 11.7 237°74	1°4/11.6 17			<b>417528</b>	2006 <i>TP</i> <sub>39</sub>		6 11.7 199°57	3°1/12.0 17		
5 11	17 48.00	-19 46.2	1.736	2.616	13.4	21.3	5 11	17 50.08	-30 14.9	1.861	2.730	13.1	21.5
5 21	17 41.58	-19 39.4	1.655	2.604	9.7	21.0	5 21	17 43.07	-30 46.5	1.787	2.727	9.8	21.3
5 31	17 32.81	-19 33.3	1.597	2.592	5.6	20.7	5 31	17 33.64	-31 11.4	1.737	2.724	6.1	21.1
6 10	17 22.55	-19 28.1	1.566	2.579	1.6	20.4	6 10	17 22.69	-31 26.4	1.713	2.721	3.2	20.9
6 20	17 11.89	-19 24.0	1.561	2.566	4.3	20.6	6 20	17 11.40	-31 30.1	1.716	2.717	4.7	20.9
6 30	17 2.07	-19 22.3	1.582	2.552	8.7	20.8	6 30	17 1.05	-31 23.2	1.746	2.712	8.3	21.2
7 10	16 54.13	-19 24.3	1.628	2.538	12.8	21.0	7 10	16 52.74	-31 8.9	1.800	2.707	11.9	21.4
7 20	16 48.77	-19 31.1	1.694	2.523	16.3	21.2	7 20	16 47.13	-30 51.1	1.876	2.702	15.1	21.6
<b>317981</b>	2003 <i>YM</i> <sub>172</sub>		6 11.7 24°48	2°5/12.0 17			<b>467951</b>	2012 <i>FQ</i> <sub>21</sub>		6 11.7 208°27	0°8/11.6 17		
5 11	17 46.28	-27 47.1	1.203	2.102	16.7	20.2	5 11	17 48.74	-21 2.6	1.883	2.758	12.7	21.9
5 21	17 40.95	-28 5.4	1.151	2.108	12.2	20.0	5 21	17 41.93	-21 1.1	1.805	2.752	9.2	21.7
5 31	17 32.60	-28 16.7	1.119	2.115	7.1	19.7	5 31	17 32.93	-20 59.3	1.751	2.746	5.2	21.4
6 10	17 22.51	-28 18.6	1.110	2.123	2.7	19.4	6 10	17 22.58	-20 56.8	1.724	2.739	1.1	21.1
6 20	17 12.24	-28 10.4	1.125	2.131	5.1	19.6	6 20	17 11.93	-20 53.9	1.725	2.731	3.8	21.3
6 30	17 3.43	-27 54.4	1.162	2.141	10.0	19.9	6 30	17 2.11	-20 51.3	1.753	2.723	8.0	21.6
7 10	16 57.35	-27 34.9	1.221	2.151	14.6	20.2	7 10	16 54.10	-20 50.7	1.806	2.713	11.9	21.8
7 20	16 54.62	-27 15.8	1.298	2.162	18.4	20.5	7 20	16 48.54	-20 53.4	1.880	2.704	15.2	22.0
<b>216592</b>	2002 <i>OW</i> <sub>7</sub>		6 11.7 330°51	7°4/11.3 17			<b>107310</b>	2001 <i>CF</i> <sub>9</sub>		6 11.7 87°75	1°8/11.9 17		
5 11	17 40.87	- 9 16.4	1.088	1.990	17.8	20.0	5 11	17 49.89	-26 54.6	1.480	2.364	15.0	20.4
5 21	17 37.36	- 8 52.3	1.015	1.967	13.9	19.7	5 21	17 43.03	-27 11.6	1.429	2.378	10.9	20.1
5 31	17 30.85	- 8 43.5	0.959	1.946	9.9	19.4	5 31	17 33.56	-27 23.1	1.399	2.393	6.3	19.9
6 10	17 22.29	- 8 54.7	0.925	1.925	7.5	19.2	6 10	17 22.66	-27 26.7	1.394	2.407	2.1	19.7
6 20	17 13.02	- 9 27.9	0.911	1.906	9.1	19.2	6 20	17 11.69	-27 22.2	1.415	2.422	4.4	19.9
6 30	17 4.67	-10 22.8	0.919	1.888	13.3	19.4	6 30	17 2.06	-27 11.3	1.462	2.436	8.9	20.2
7 10	16 58.72	-11 35.7	0.945	1.872	18.1	19.6	7 10	16 54.85	-26 57.4	1.532	2.450	13.0	20.4
7 20	16 56.13	-13 1.4	0.987	1.857	22.4	19.8	7 20	16 50.62	-26 43.7	1.622	2.463	16.4	20.7

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6 11.7

6 11.8

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>478280</b>	2011 VM <sub>21</sub>		6 11.7 200°53	0°6/11.6	18		<b>474442</b>	2003 PQ <sub>9</sub>		6 11.8 299°78	5°8/10.6	16	
5 11	17 43.21	-21 16.6	2.690	3.560	9.5	22.7	5 11	17 46.06	-9 55.2	1.826	2.693	13.4	21.8
5 21	17 37.42	-21 13.2	2.612	3.557	6.8	22.6	5 21	17 40.37	-9 18.7	1.714	2.648	10.5	21.5
5 31	17 30.21	-21 9.4	2.559	3.553	3.8	22.3	5 31	17 32.33	-8 49.0	1.625	2.603	7.5	21.3
6 10	17 22.17	-21 5.1	2.535	3.549	0.8	22.1	6 10	17 22.57	-8 29.4	1.561	2.556	5.8	21.1
6 20	17 13.97	-21 0.5	2.539	3.545	2.8	22.3	6 20	17 12.01	-8 22.6	1.523	2.509	7.3	21.0
6 30	17 6.33	-20 56.4	2.572	3.540	5.9	22.5	6 30	17 1.81	-8 30.5	1.511	2.461	10.8	21.1
7 10	16 59.89	-20 53.8	2.632	3.535	8.8	22.6	7 10	16 53.10	-8 53.4	1.523	2.412	14.7	21.3
7 20	16 55.10	-20 53.4	2.715	3.530	11.2	22.8	7 20	16 46.74	-9 30.1	1.554	2.364	18.4	21.4
<b>176483</b>	2001 XT <sub>207</sub>		6 11.7 216°19	2°0/11.4	18		<b>167333</b>	2003 UM <sub>280</sub>		6 11.8 240°40	0°9/11.7	18	
5 11	17 43.19	-16 33.4	2.565	3.433	10.0	20.9	5 11	17 48.93	-20 3.1	1.811	2.687	13.1	20.0
5 21	17 37.46	-16 27.7	2.485	3.427	7.3	20.7	5 21	17 42.28	-20 17.2	1.726	2.673	9.5	19.7
5 31	17 30.26	-16 24.7	2.430	3.420	4.3	20.5	5 31	17 33.26	-20 33.1	1.664	2.658	5.4	19.5
6 10	17 22.18	-16 24.7	2.403	3.414	2.0	20.3	6 10	17 22.69	-20 49.9	1.628	2.642	1.2	19.1
6 20	17 13.91	-16 28.0	2.405	3.406	3.5	20.4	6 20	17 11.62	-21 6.7	1.620	2.626	4.0	19.3
6 30	17 6.19	-16 35.2	2.435	3.398	6.5	20.6	6 30	17 1.29	-21 23.5	1.639	2.609	8.4	19.5
7 10	16 59.68	-16 46.3	2.492	3.390	9.4	20.8	7 10	16 52.77	-21 41.0	1.682	2.592	12.5	19.7
7 20	16 54.85	-17 1.6	2.571	3.382	11.9	20.9	7 20	16 46.82	-22 0.3	1.747	2.573	16.0	19.9
<b>17576</b>	1994 PL <sub>25</sub>		6 11.7 7°67	5°2/11.2	18		<b>18726</b>	1998 KC <sub>2</sub>		6 11.8 75°65	9°7/9.4	18	
5 11	17 42.10	-8 43.7	1.998	2.866	12.4	18.3	5 11	17 50.94	-4 44.2	1.443	2.303	16.7	18.6
5 21	17 36.91	-8 25.2	1.933	2.866	9.5	18.1	5 21	17 43.11	-2 42.1	1.420	2.339	13.4	18.5
5 31	17 30.02	-8 16.2	1.891	2.867	6.8	18.0	5 31	17 33.29	-0 57.3	1.419	2.374	10.7	18.4
6 10	17 22.15	-8 18.6	1.875	2.868	5.2	17.9	6 10	17 22.62	+0 23.3	1.443	2.408	9.7	18.4
6 20	17 14.12	-8 33.0	1.885	2.869	6.2	17.9	6 20	17 12.32	+1 15.8	1.491	2.442	10.8	18.6
6 30	17 6.80	-8 59.2	1.920	2.870	8.8	18.1	6 30	17 3.46	+1 39.7	1.564	2.475	13.1	18.8
7 10	17 0.95	-9 35.8	1.980	2.872	11.7	18.3	7 10	16 56.84	+1 38.0	1.657	2.508	15.7	19.0
7 20	16 57.07	-10 20.9	2.061	2.874	14.4	18.5	7 20	16 52.82	+1 15.8	1.768	2.540	17.9	19.3
<b>58829</b>	1998 HF <sub>19</sub>		6 11.7 132°23	4°4/10.7	18		<b>471587</b>	2012 RU <sub>20</sub>		6 11.8 239°65	4°2/12.6	18	
5 11	17 42.69	-9 44.1	2.545	3.403	10.4	20.2	5 11	17 49.14	-35 45.4	2.219	3.071	11.9	21.7
5 21	17 36.94	-9 5.5	2.486	3.415	7.9	20.1	5 21	17 42.22	-35 57.2	2.132	3.058	9.2	21.5
5 31	17 29.88	-8 33.2	2.452	3.425	5.6	20.0	5 31	17 33.12	-35 58.2	2.069	3.044	6.3	21.3
6 10	17 22.12	-8 9.0	2.445	3.436	4.4	19.9	6 10	17 22.67	-35 45.6	2.032	3.030	4.3	21.1
6 20	17 14.31	-7 54.4	2.467	3.446	5.3	20.0	6 20	17 11.91	-35 19.0	2.022	3.015	5.0	21.1
6 30	17 7.15	-7 50.0	2.515	3.456	7.5	20.1	6 30	17 1.98	-34 39.9	2.040	3.000	7.8	21.3
7 10	17 1.21	-7 55.6	2.589	3.465	9.9	20.3	7 10	16 53.87	-33 52.6	2.084	2.984	10.9	21.4
7 20	16 56.87	-8 10.2	2.685	3.474	12.0	20.5	7 20	16 48.20	-33 1.7	2.149	2.968	13.7	21.6
<b>147395</b>	2003 EE <sub>62</sub>		6 11.8 170°07	5°8/10.8	18		<b>463149</b>	2011 YK <sub>61</sub>		6 11.8 127°63	3°8/11.4	17	
5 11	17 41.93	-4 0.6	2.595	3.438	10.7	20.3	5 11	17 48.09	-14 14.4	1.576	2.455	14.5	21.6
5 21	17 36.44	-3 33.7	2.529	3.441	8.6	20.2	5 21	17 41.52	-13 59.7	1.518	2.464	10.7	21.3
5 31	17 29.63	-3 16.8	2.488	3.443	6.7	20.1	5 31	17 32.70	-13 51.5	1.483	2.473	6.7	21.1
6 10	17 22.09	-3 11.8	2.473	3.444	5.8	20.0	6 10	17 22.60	-13 50.9	1.474	2.481	3.8	21.0
6 20	17 14.43	-3 19.7	2.484	3.446	6.4	20.1	6 20	17 12.37	-13 58.5	1.490	2.489	5.6	21.1
6 30	17 7.34	-3 40.3	2.523	3.447	8.2	20.2	6 30	17 3.21	-14 14.5	1.532	2.496	9.5	21.3
7 10	17 1.39	-4 12.5	2.586	3.448	10.4	20.3	7 10	16 56.10	-14 38.3	1.598	2.504	13.2	21.6
7 20	16 56.99	-4 54.2	2.671	3.449	12.4	20.5	7 20	16 51.59	-15 9.0	1.683	2.510	16.5	21.8
<b>78257</b>	2002 PD <sub>15</sub>		6 11.8 277°97	1°2/11.6	18		<b>111397</b>	2001 XA <sub>171</sub>		6 11.8 320°37	1°7/11.7	18	
5 11	17 45.00	-20 11.0	2.012	2.890	11.9	20.2	5 11	17 43.86	-17 7.7	1.961	2.840	12.1	19.5
5 21	17 39.27	-20 2.9	1.919	2.867	8.6	20.0	5 21	17 38.39	-17 27.3	1.885	2.833	8.8	19.2
5 31	17 31.50	-19 54.9	1.850	2.844	4.9	19.7	5 31	17 30.97	-17 51.4	1.832	2.826	5.1	19.0
6 10	17 22.40	-19 47.3	1.807	2.821	1.4	19.4	6 10	17 22.35	-18 19.6	1.807	2.819	1.8	18.8
6 20	17 12.88	-19 40.5	1.792	2.798	3.8	19.6	6 20	17 13.43	-18 50.7	1.808	2.813	3.9	18.9
6 30	17 3.97	-19 35.6	1.804	2.774	7.8	19.8	6 30	17 5.19	-19 24.3	1.836	2.807	7.7	19.1
7 10	16 56.60	-19 33.9	1.841	2.750	11.6	19.9	7 10	16 58.51	-19 59.8	1.889	2.801	11.2	19.3
7 20	16 51.45	-19 36.5	1.899	2.726	14.9	20.1	7 20	16 53.99	-20 36.8	1.964	2.795	14.3	19.5
<b>503522</b>	2016 FT <sub>11</sub>		6 11.8 78°86	1°4/11.9	17		<b>17839</b>	1998 HN <sub>95</sub>		6 11.8 267°45	4°2/10.3	18	
5 11	17 50.29	-25 56.5	1.391	2.278	15.6	21.4	5 11	17 42.54	-12 35.9	2.325	3.193	10.9	17.6
5 21	17 43.36	-26 11.8	1.344	2.296	11.3	21.1	5 21	17 37.12	-11 39.6	2.242	3.179	8.2	17.4
5 31	17 33.76	-26 22.2	1.319	2.314	6.4	20.9	5 31	17 30.14	-10 46.5	2.184	3.165	5.6	17.3
6 10	17 22.71	-26 25.8	1.318	2.332	1.7	20.7	6 10	17 22.22	-9 59.4	2.154	3.151	4.2	17.1
6 20	17 11.67	-26 22.0	1.343	2.350	4.4	20.9	6 20	17 14.10	-9 20.7	2.151	3.136	5.5	17.2
6 30	17 2.07	-26 12.9	1.393	2.368	9.1	21.2	6 30	17 6.57	-8 52.6	2.175	3.122	8.2	17.3
7 10	16 54.99	-26 1.7	1.465	2.385	13.3	21.5	7 10	17 0.32	-8 35.9	2.224	3.107	11.0	17.5
7 20	16 51.00	-25 51.5	1.558	2.403	16.8	21.8	7 20	16 55.85	-8 30.5	2.294	3.092	13.6	17.6
<b>154807</b>	2004 PP <sub>97</sub>		6 11.8 177°14	14°6/12.1	16	R	<b>90162</b>	2003 AO <sub>3</sub>		6 11.8 248°54	16°0/13.3	17	
5 11	18 20.12	-46 43.0	1.111	1.938	22.8	21.4	5 11	17 51.74	+11 8.3	1.247	2.057	21.7	19.5
5 21	18 8.12	-49 1.0	1.056	1.946	19.4	21.1	5 21	17 44.85	+11 35.0	1.182	2.048	19.4	19.3
5 31	17 49.20	-50 53.1	1.019	1.951	16.3	21.0	5 31	17 34.91	+11 24.5	1.133	2.038	17.3	19.1
6 10	17 25.21	-51 58.3	1.002	1.953	14.6	20.9	6 10	17 22.98	+10 29.0	1.103	2.028	16.1	19.0
6 20	16 59.87	-52 4.1	1.008	1.953	15.3	20.9	6 20	17 10.51	+8 46.5	1.093	2.017	16.4	19.0
6 30	16 37.66	-51 14.4	1.036	1.951	17.9	21.1	6 30	16 59.11	+6 21.4	1.105	2.007	18.1	19.1
7 10	16 21.66	-49 47.4	1.082	1.946	21.3	21.3	7 10	16 50.17	+3 24.9	1.137	1.995	20.8	19.2
7 20	16 12.79	-48 4.3	1.144	1.939	24.6	21.5	7 20	16 44.55	+0 10.0	1.187	1.984	23.7	19.4
<b>508195</b>	2015 FU <sub>352</sub>		6 11.8 358°35	2°8/12.1	17		<b>499363</b>	2009 YZ <sub>16</sub>		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>325127</b>	2008 <i>EL</i> <sub>119</sub>		6 11.8 337°48	0°4/11.7	18		<b>332323</b>	2006 <i>XF</i> <sub>27</sub>		6 11.8 187°97	3°4/12.3	17	
5 11	17 44.98	-24 11.9	1.294	2.192	15.7	19.5	5 11	17 49.87	-31 58.9	1.895	2.760	13.1	21.3
5 21	17 39.92	-23 39.8	1.226	2.185	11.4	19.2	5 21	17 42.89	-32 16.9	1.823	2.760	9.8	21.0
5 31	17 32.07	-23 2.1	1.180	2.178	6.4	18.9	5 31	17 33.55	-32 26.0	1.774	2.759	6.2	20.8
6 10	17 22.54	-22 19.7	1.157	2.172	1.0	18.6	6 10	17 22.79	-32 23.6	1.752	2.758	3.5	20.7
6 20	17 12.70	-21 35.2	1.158	2.166	4.6	18.8	6 20	17 11.80	-32 8.9	1.757	2.757	4.7	20.7
6 30	17 4.07	-20 52.6	1.183	2.161	9.9	19.1	6 30	17 1.81	-31 43.9	1.788	2.755	8.2	20.9
7 10	16 57.87	-20 16.1	1.229	2.157	14.7	19.3	7 10	16 53.86	-31 12.3	1.844	2.752	11.7	21.1
7 20	16 54.77	-19 48.5	1.294	2.153	18.7	19.6	7 20	16 48.57	-30 38.5	1.922	2.749	14.8	21.3
<b>206656</b>	2003 <i>YD</i> <sub>37</sub>		6 11.8 154°92	0°3/11.8	17		<b>475503</b>	2006 <i>SR</i> <sub>314</sub>		6 11.8 179°87	3°9/10.9	16	
5 11	17 45.17	-23 44.3	2.035	2.913	11.8	20.8	5 11	17 42.71	-11 42.1	2.375	3.240	10.8	21.5
5 21	17 39.23	-23 51.8	1.965	2.914	8.5	20.6	5 21	17 37.16	-11 12.3	2.306	3.241	8.1	21.3
5 31	17 31.38	-23 57.4	1.920	2.915	4.7	20.3	5 31	17 30.13	-10 47.9	2.261	3.241	5.5	21.2
6 10	17 22.42	-24 0.2	1.901	2.916	0.8	20.1	6 10	17 22.27	-10 30.6	2.243	3.241	3.9	21.1
6 20	17 13.26	-24 0.2	1.910	2.917	3.3	20.3	6 20	17 14.28	-10 21.7	2.253	3.241	5.0	21.1
6 30	17 4.90	-23 58.2	1.946	2.918	7.2	20.5	6 30	17 6.92	-10 21.8	2.291	3.241	7.6	21.3
7 10	16 58.18	-23 55.7	2.006	2.918	10.7	20.7	7 10	17 0.84	-10 30.9	2.353	3.240	10.3	21.5
7 20	16 53.66	-23 54.3	2.089	2.919	13.6	20.9	7 20	16 56.48	-10 48.2	2.437	3.240	12.7	21.6
<b>478225</b>	2011 <i>UC</i> <sub>317</sub>		6 11.8 209°60	1°9/11.2	18		<b>508643</b>	2017 <i>TT</i> <sub>10</sub>		6 11.8 212°58	8°5/12.5	17	
5 11	17 42.93	-18 18.3	2.650	3.519	9.7	22.1	5 11	17 54.97	-45 19.8	2.071	2.888	13.9	22.1
5 21	17 37.22	-17 46.2	2.571	3.514	7.0	21.9	5 21	17 47.05	-46 27.0	1.996	2.883	11.7	21.9
5 31	17 30.12	-17 14.5	2.518	3.509	4.1	21.7	5 31	17 36.12	-47 17.9	1.945	2.877	9.7	21.8
6 10	17 22.23	-16 44.2	2.493	3.504	1.9	21.5	6 10	17 23.23	-47 46.5	1.917	2.870	8.5	21.7
6 20	17 14.21	-16 16.7	2.497	3.498	3.5	21.6	6 20	17 9.80	-47 49.2	1.915	2.863	9.0	21.7
6 30	17 6.77	-15 53.5	2.530	3.492	6.4	21.8	6 30	16 57.45	-47 27.0	1.938	2.856	10.7	21.8
7 10	17 0.52	-15 35.7	2.588	3.485	9.2	22.0	7 10	16 47.56	-46 45.3	1.984	2.848	12.9	21.9
7 20	16 55.90	-15 23.9	2.670	3.478	11.6	22.1	7 20	16 40.94	-45 50.9	2.050	2.839	15.2	22.1
<b>262796</b>	2006 <i>YS</i> <sub>46</sub>		6 11.8 85°71	0°9/11.6	17		<b>105524</b>	2000 <i>RF</i> <sub>26</sub>		6 11.8 301°10	3°7/12.6	18	
5 11	17 47.56	-22 9.2	1.636	2.520	13.8	20.6	5 11	17 46.09	-33 53.3	1.976	2.842	12.6	19.5
5 21	17 41.05	-21 46.6	1.584	2.535	9.9	20.4	5 21	17 40.29	-33 53.3	1.884	2.820	9.6	19.3
5 31	17 32.38	-21 22.0	1.554	2.550	5.5	20.1	5 31	17 32.18	-33 42.3	1.814	2.797	6.3	19.0
6 10	17 22.57	-20 56.2	1.551	2.565	1.2	19.9	6 10	17 22.61	-33 18.3	1.770	2.775	3.8	18.8
6 20	17 12.77	-20 30.8	1.574	2.580	4.0	20.1	6 20	17 12.65	-32 41.1	1.753	2.752	4.8	18.8
6 30	17 4.13	-20 7.9	1.623	2.595	8.3	20.4	6 30	17 3.51	-31 52.8	1.762	2.730	8.1	19.0
7 10	16 57.55	-19 49.8	1.695	2.609	12.2	20.7	7 10	16 56.22	-30 57.9	1.796	2.708	11.7	19.1
7 20	16 53.53	-19 37.9	1.789	2.624	15.4	20.9	7 20	16 51.48	-30 1.4	1.851	2.686	14.9	19.3
<b>271315</b>	2003 <i>WJ</i> <sub>4</sub>		6 11.8 328°94	6°2/12.6	17		<b>100542</b>	1997 <i>ES</i> <sub>25</sub>		6 11.8 114°60	6°0/12.3	18	
5 11	17 48.02	-35 31.5	1.263	2.146	17.1	20.4	5 11	17 51.78	-38 16.3	2.012	2.859	13.2	19.7
5 21	17 42.64	-36 2.5	1.194	2.137	13.3	20.1	5 21	17 44.31	-39 14.9	1.954	2.871	10.4	19.5
5 31	17 33.84	-36 18.5	1.146	2.128	9.2	19.9	5 31	17 34.36	-40 1.1	1.920	2.883	7.7	19.4
6 10	17 22.85	-36 14.5	1.119	2.120	6.4	19.7	6 10	17 22.93	-40 30.3	1.911	2.895	6.1	19.3
6 20	17 11.37	-35 48.5	1.115	2.112	7.4	19.7	6 20	17 11.28	-40 40.5	1.929	2.906	6.7	19.3
6 30	17 1.30	-35 3.4	1.135	2.105	11.3	19.9	6 30	17 0.71	-40 32.7	1.973	2.917	9.0	19.5
7 10	16 54.17	-34 6.4	1.175	2.098	15.5	20.1	7 10	16 52.31	-40 11.2	2.041	2.928	11.6	19.7
7 20	16 50.79	-33 5.5	1.233	2.093	19.4	20.3	7 20	16 46.71	-39 41.2	2.130	2.939	14.1	19.9
<b>171753</b>	2000 <i>YN</i> <sub>22</sub>		6 11.8 168°00	1°4/11.6	17		<b>461810</b>	2005 <i>YP</i> <sub>132</sub>		6 11.8 115°34	3°4/12.4	16	
5 11	17 48.85	-19 36.6	1.841	2.717	12.9	21.2	5 11	17 52.51	-31 11.7	1.431	2.309	15.8	21.7
5 21	17 41.94	-19 28.8	1.774	2.721	9.3	20.9	5 21	17 45.12	-31 20.3	1.376	2.320	11.7	21.4
5 31	17 32.92	-19 21.8	1.731	2.725	5.3	20.7	5 31	17 34.86	-31 17.9	1.342	2.332	7.2	21.2
6 10	17 22.68	-19 15.7	1.715	2.728	1.6	20.5	6 10	17 23.00	-31 2.0	1.333	2.342	3.6	21.0
6 20	17 12.27	-19 10.8	1.726	2.731	4.0	20.6	6 20	17 11.09	-30 32.7	1.350	2.353	5.2	21.1
6 30	17 2.79	-19 8.3	1.764	2.733	8.1	20.9	6 30	17 0.68	-29 53.6	1.391	2.363	9.4	21.4
7 10	16 55.17	-19 9.4	1.827	2.734	11.8	21.1	7 10	16 52.95	-29 10.4	1.456	2.373	13.6	21.7
7 20	16 49.97	-19 15.0	1.912	2.735	15.0	21.3	7 20	16 48.48	-28 28.3	1.541	2.382	17.1	21.9
<b>357840</b>	2005 <i>UH</i> <sub>147</sub>		6 11.8 305°51	4°5/12.0	18		<b>368092</b>	2013 <i>AK</i> <sub>4</sub>		6 11.8 82°09	1°8/12.4	17	
5 11	17 46.18	-33 59.8	2.081	2.944	12.2	20.4	5 11	17 46.39	-30 54.6	2.184	3.050	11.6	20.4
5 21	17 40.31	-34 47.4	2.000	2.932	9.3	20.2	5 21	17 39.91	-30 23.7	2.119	3.059	8.5	20.2
5 31	17 32.18	-35 27.4	1.942	2.920	6.4	20.0	5 31	17 31.66	-29 43.8	2.079	3.068	5.1	20.0
6 10	17 22.59	-35 56.1	1.911	2.909	4.5	19.8	6 10	17 22.50	-28 55.2	2.066	3.077	2.1	19.9
6 20	17 12.57	-36 11.2	1.906	2.897	5.4	19.9	6 20	17 13.37	-27 59.6	2.081	3.086	3.4	20.0
6 30	17 3.27	-36 13.0	1.927	2.886	8.2	20.0	6 30	17 5.20	-27 0.4	2.124	3.095	6.8	20.2
7 10	16 55.75	-36 3.9	1.973	2.874	11.3	20.2	7 10	16 58.74	-26 1.3	2.193	3.104	9.9	20.4
7 20	16 50.69	-35 47.7	2.040	2.863	14.1	20.3	7 20	16 54.43	-25 5.9	2.285	3.113	12.7	20.6
<b>47266</b>	1999 <i>VY</i> <sub>98</sub>		6 11.8 39°67	1°3/11.6	18		<b>427546</b>	2002 <i>RB</i> <sub>272</sub>		6 11.8 280°84	1°1/11.6	17	
5 11	17 46.26	-21 18.8	1.228	2.127	16.3	18.4	5 11	17 46.75	-21 9.7	1.538	2.425	14.3	22.0
5 21	17 40.68	-21 1.6	1.179	2.138	11.7	18.1	5 21	17 41.04	-20 59.0	1.455	2.408	10.4	21.7
5 31	17 32.39	-20 43.9	1.151	2.149	6.6	17.9	5 31	17 32.73	-20 47.5	1.395	2.391	5.9	21.4
6 10	17 22.60	-20 26.4	1.147	2.161	1.6	17.6	6 10	17 22.72	-20 35.5	1.360	2.374	1.4	21.0
6 20	17 12.76	-20 10.4	1.166	2.173	4.8	17.8	6 20	17 12.21	-20 23.5	1.350	2.357	4.5	21.2
6 30	17 4.32	-19 58.1	1.209	2.186	9.9	18.2	6 30	17 2.57	-20 13.3	1.365	2.339	9.4	21.4
7 10	16 58.40	-19 51.4	1.274	2.200	14.4	18.4	7 10	16 55.00	-20 7.0	1.404	2.322	13.9	21.7
7 20	16 55.55	-19 51.3	1.357	2.214	18.1	18.7	7 20	16 50.27	-20 6.1	1.461	2.304	17.8	21.9
<b>404773</b>	2014 <i>JW</i> <sub>44</sub>		6 11.8 246°84	3°0/11.9	18								

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>108270</b>	2001 <i>HL</i> <sub>56</sub>		6 11.8 340°21	9°0/ 9.5	18	R	<b>502874</b>	2015 <i>DS</i> <sub>207</sub>		6 11.8 89°34	0°1/11.8	17	
5 11	17 41.26	- 4 22.1	1.577	2.447	15.0	18.8	5 11	17 47.31	-21 46.8	1.852	2.730	12.7	21.0
5 21	17 36.72	- 3 2.9	1.514	2.439	12.3	18.6	5 21	17 40.86	-22 16.1	1.793	2.742	9.1	20.8
5 31	17 30.12	- 1 56.7	1.472	2.431	9.9	18.4	5 31	17 32.35	-22 45.7	1.759	2.754	5.1	20.6
6 10	17 22.30	- 1 9.1	1.453	2.424	9.0	18.3	6 10	17 22.66	-23 13.9	1.751	2.766	0.8	20.3
6 20	17 14.25	- 0 44.3	1.457	2.418	10.1	18.4	6 20	17 12.81	-23 39.5	1.770	2.777	3.5	20.5
6 30	17 7.03	- 0 43.6	1.485	2.412	12.6	18.5	6 30	17 3.88	-24 2.2	1.817	2.789	7.6	20.8
7 10	17 1.56	- 1 5.6	1.533	2.407	15.5	18.7	7 10	16 56.79	-24 22.7	1.888	2.800	11.2	21.0
7 20	16 58.43	- 1 46.7	1.599	2.403	18.2	18.9	7 20	16 52.09	-24 42.2	1.981	2.811	14.2	21.2
<b>427485</b>	2001 <i>XP</i> <sub>206</sub>		6 11.8 189°62	1°8/11.6	17		<b>166804</b>	2002 <i>VR</i> <sub>64</sub>		6 11.8 232°49	5°7/ 9.6	18	
5 11	17 47.12	-17 18.4	2.156	3.025	11.6	21.8	5 11	17 53.16	-18 55.6	1.156	2.048	17.7	19.2
5 21	17 40.54	-17 26.6	2.081	3.024	8.4	21.6	5 21	17 45.91	-16 37.8	1.088	2.041	13.1	18.9
5 31	17 32.13	-17 37.9	2.031	3.023	4.9	21.4	5 31	17 35.47	-14 11.5	1.042	2.034	8.3	18.6
6 10	17 22.61	-17 52.1	2.009	3.021	1.9	21.1	6 10	17 23.15	-11 45.6	1.021	2.026	5.7	18.4
6 20	17 12.85	-18 8.8	2.015	3.018	3.7	21.3	6 20	17 10.61	- 9 31.8	1.026	2.018	8.7	18.6
6 30	17 3.80	-18 28.0	2.049	3.015	7.3	21.5	6 30	16 59.59	- 7 40.5	1.055	2.010	13.7	18.8
7 10	16 56.27	-18 49.7	2.108	3.011	10.7	21.7	7 10	16 51.40	- 6 17.9	1.104	2.001	18.5	19.1
7 20	16 50.81	-19 14.1	2.191	3.007	13.6	21.9	7 20	16 46.72	- 5 24.6	1.170	1.992	22.6	19.3
<b>442016</b>	2010 <i>OG</i> <sub>81</sub>		6 11.8 307°32	4°1/12.6	15		<b>131582</b>	2001 <i>WK</i> <sub>4</sub>		6 11.8 123°70	1°6/11.9	18	
5 11	17 45.49	-34 52.3	2.026	2.890	12.4	21.1	5 11	17 53.01	-25 22.1	1.632	2.506	14.4	20.4
5 21	17 39.85	-35 1.4	1.936	2.869	9.5	20.9	5 21	17 45.19	-26 0.2	1.577	2.523	10.4	20.2
5 31	17 31.94	-34 59.8	1.868	2.848	6.5	20.6	5 31	17 34.84	-26 35.1	1.546	2.539	5.9	19.9
6 10	17 22.60	-34 44.9	1.826	2.827	4.2	20.4	6 10	17 23.05	-27 3.7	1.540	2.554	1.8	19.7
6 20	17 12.89	-34 16.2	1.811	2.807	5.1	20.5	6 20	17 11.12	-27 24.0	1.563	2.568	4.2	19.9
6 30	17 3.97	-33 35.5	1.821	2.787	8.1	20.6	6 30	17 0.41	-27 36.6	1.612	2.582	8.5	20.2
7 10	16 56.87	-32 46.9	1.856	2.767	11.5	20.8	7 10	16 52.00	-27 43.7	1.685	2.595	12.4	20.4
7 20	16 52.28	-31 55.1	1.913	2.747	14.6	20.9	7 20	16 46.51	-27 48.2	1.779	2.608	15.7	20.7
<b>302473</b>	2002 <i>FN</i> <sub>15</sub>		6 11.8 116°71	0°2/11.8	18		<b>16672</b>	Bedini		6 11.8 176°99	3°4/12.3	18	
5 11	17 44.73	-23 3.0	2.669	3.537	9.7	20.8	5 11	17 49.43	-32 12.5	2.062	2.924	12.3	19.0
5 21	17 38.50	-23 20.6	2.609	3.552	6.9	20.6	5 21	17 42.45	-32 36.3	1.991	2.926	9.2	18.8
5 31	17 30.85	-23 37.2	2.574	3.568	3.8	20.5	5 31	17 33.28	-32 51.8	1.944	2.927	5.9	18.6
6 10	17 22.41	-23 51.7	2.568	3.582	0.6	20.2	6 10	17 22.82	-32 56.5	1.923	2.928	3.5	18.5
6 20	17 13.89	-24 3.9	2.591	3.597	2.7	20.4	6 20	17 12.12	-32 49.4	1.930	2.928	4.6	18.6
6 30	17 6.03	-24 14.0	2.642	3.611	5.7	20.7	6 30	17 2.35	-32 31.9	1.964	2.928	7.7	18.7
7 10	16 59.45	-24 22.7	2.721	3.625	8.5	20.9	7 10	16 54.46	-32 7.4	2.023	2.927	11.0	18.9
7 20	16 54.57	-24 31.1	2.823	3.639	10.8	21.0	7 20	16 49.05	-31 39.6	2.104	2.926	13.8	19.1
<b>107316</b>	2001 <i>CQ</i> <sub>11</sub>		6 11.8 183°11	1°2/11.9	18		<b>433489</b>	2013 <i>WR</i> <sub>15</sub>		6 11.8 177°37	0°4/11.8	17	
5 11	17 47.13	-26 32.3	2.245	3.114	11.2	20.4	5 11	17 46.94	-23 28.9	1.899	2.776	12.5	21.0
5 21	17 40.56	-26 42.5	2.171	3.114	8.1	20.2	5 21	17 40.67	-23 45.5	1.829	2.777	9.0	20.7
5 31	17 32.14	-26 48.7	2.122	3.114	4.7	20.0	5 31	17 32.30	-24 0.6	1.783	2.778	5.1	20.5
6 10	17 22.62	-26 49.7	2.101	3.114	1.4	19.8	6 10	17 22.67	-24 13.1	1.763	2.778	0.9	20.2
6 20	17 12.91	-26 45.3	2.107	3.113	3.3	19.9	6 20	17 12.79	-24 22.2	1.771	2.778	3.5	20.4
6 30	17 3.97	-26 36.4	2.142	3.112	6.8	20.1	6 30	17 3.77	-24 28.4	1.806	2.778	7.6	20.6
7 10	16 56.60	-26 25.0	2.203	3.110	10.1	20.3	7 10	16 56.52	-24 33.1	1.865	2.778	11.3	20.9
7 20	16 51.35	-26 13.5	2.286	3.107	12.9	20.5	7 20	16 51.66	-24 38.0	1.946	2.777	14.5	21.1
<b>505942</b>	2015 <i>FC</i> <sub>72</sub>		6 11.8 86°35	6°9/12.2	17		<b>269541</b>	2009 <i>VT</i> <sub>93</sub>		6 11.8 155°80	0°6/11.9	17	
5 11	17 50.87	-39 20.7	1.851	2.700	14.0	21.1	5 11	17 47.58	-24 34.7	1.912	2.787	12.5	21.6
5 21	17 43.99	-40 26.3	1.786	2.703	11.2	20.9	5 21	17 41.08	-24 44.5	1.844	2.792	9.0	21.4
5 31	17 34.35	-41 18.8	1.744	2.705	8.6	20.8	5 31	17 32.50	-24 51.5	1.801	2.795	5.1	21.1
6 10	17 22.98	-41 52.6	1.727	2.708	7.0	20.7	6 10	17 22.70	-24 54.6	1.785	2.799	1.0	20.8
6 20	17 11.22	-42 4.9	1.736	2.710	7.6	20.7	6 20	17 12.71	-24 53.6	1.795	2.802	3.5	21.0
6 30	17 0.54	-41 56.6	1.769	2.712	9.9	20.9	6 30	17 3.62	-24 49.4	1.833	2.805	7.6	21.3
7 10	16 52.20	-41 32.1	1.826	2.715	12.7	21.0	7 10	16 56.35	-24 43.9	1.896	2.808	11.2	21.5
7 20	16 46.90	-40 57.5	1.903	2.717	15.4	21.2	7 20	16 51.48	-24 39.2	1.980	2.810	14.3	21.7
<b>107066</b>	2001 <i>AC</i> <sub>13</sub>		6 11.8 131°97	0°3/11.7	18		<b>186518</b>	2002 <i>VZ</i> <sub>34</sub>		6 11.8 202°72	0°5/11.7	18	
5 11	17 49.69	-23 32.7	1.723	2.601	13.6	20.3	5 11	17 47.91	-22 17.4	1.941	2.816	12.4	21.1
5 21	17 42.58	-23 11.9	1.665	2.613	9.7	20.1	5 21	17 41.32	-22 8.9	1.865	2.812	8.9	20.9
5 31	17 33.28	-22 47.6	1.629	2.624	5.4	19.9	5 31	17 32.65	-21 58.6	1.813	2.808	5.0	20.7
6 10	17 22.79	-22 20.2	1.620	2.635	0.9	19.6	6 10	17 22.73	-21 46.5	1.789	2.803	0.9	20.3
6 20	17 12.26	-21 51.0	1.639	2.645	3.8	19.8	6 20	17 12.57	-21 33.0	1.792	2.798	3.6	20.5
6 30	17 2.88	-21 22.6	1.684	2.655	8.1	20.1	6 30	17 3.26	-21 19.7	1.822	2.792	7.7	20.8
7 10	16 55.55	-20 57.7	1.753	2.664	12.0	20.4	7 10	16 55.69	-21 8.4	1.877	2.786	11.4	21.0
7 20	16 50.80	-20 38.3	1.844	2.673	15.2	20.6	7 20	16 50.48	-21 0.8	1.954	2.779	14.6	21.2
<b>509726</b>	2008 <i>SD</i> <sub>207</sub>		6 11.8 302°02	8°3/10.7	17		<b>356411</b>	2010 <i>TK</i> <sub>70</sub>		6 11.8 357°82	5°5/12.6	18	
5 11	17 52.09	-37 56.6	1.631	2.489	15.2	20.8	5 11	17 46.23	-37 33.3	2.004	2.861	12.8	20.9
5 21	17 45.76	-39 45.2	1.541	2.463	12.3	20.5	5 21	17 40.36	-38 10.6	1.935	2.859	10.1	20.8
5 31	17 35.90	-41 26.5	1.475	2.437	9.6	20.3	5 31	17 32.20	-38 36.1	1.889	2.858	7.3	20.6
6 10	17 23.30	-42 51.4	1.432	2.412	8.3	20.2	6 10	17 22.66	-38 46.5	1.868	2.858	5.6	20.5
6 20	17 9.40	-43 52.3	1.415	2.386	9.4	20.2	6 20	17 12.86	-38 40.3	1.873	2.858	6.2	20.5
6 30	16 56.11	-44 25.9	1.422	2.361	12.3	20.3	6 30	17 4.00	-38 19.0	1.903	2.858	8.6	20.7
7 10	16 45.29	-44 35.2	1.451	2.335	15.7	20.4	7 10	16 57.11	-37 46.4	1.957	2.858	11.4	20.8
7 20	16 38.20	-44 26.8	1.498	2.311	18.9	20.6	7 20	16 52.79	-37 7.2	2.033	2.859	14.1	21.0
<b>336855</b>	2011 <i>FU</i> <sub>55</sub>		6 11.8 355°25	7°1/12.2	17		<b>478002</b>						

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>35165</b>	Quebec		6 11.8 326°28	9°2/14.3	18	R	<b>252902</b>	2002 <i>JX</i> <sub>127</sub>		6 11.8 331°70	1°5/11.9	18	
5 11	17 52.66	-51 27.1	2.309	3.096	13.6	18.0	5 11	17 40.73	-17 47.3	0.977	1.894	17.9	19.1
5 21	17 45.15	-52 6.2	2.240	3.094	11.8	17.8	5 21	17 37.91	-18 24.2	0.897	1.864	13.3	18.7
5 31	17 34.91	-52 25.6	2.192	3.093	10.2	17.7	5 31	17 31.62	-19 13.0	0.836	1.836	7.8	18.3
6 10	17 23.10	-52 20.5	2.166	3.091	9.3	17.6	6 10	17 22.71	-20 12.8	0.794	1.809	2.0	17.8
6 20	17 11.10	-51 49.5	2.166	3.090	9.4	17.6	6 20	17 12.66	-21 20.5	0.774	1.783	5.7	18.0
6 30	17 0.40	-50 54.5	2.189	3.089	10.4	17.7	6 30	17 3.43	-22 32.2	0.774	1.760	12.2	18.2
7 10	16 52.14	-49 41.4	2.235	3.088	12.1	17.8	7 10	16 56.93	-23 44.8	0.792	1.739	18.2	18.4
7 20	16 46.95	-48 17.1	2.303	3.087	13.9	18.0	7 20	16 54.43	-24 56.2	0.826	1.719	23.5	18.7
<b>52679</b>	1998 <i>DZ</i> <sub>22</sub>		6 11.8 187°83	3°5/12.6	18		<b>500130</b>	2012 <i>CW</i> <sub>27</sub>		6 11.8 165°64	2°4/12.2	17	
5 11	17 46.72	-34 8.4	2.261	3.120	11.5	18.9	5 11	17 51.37	-29 49.2	1.824	2.692	13.4	22.4
5 21	17 40.36	-34 18.5	2.188	3.119	8.7	18.8	5 21	17 43.94	-29 53.9	1.756	2.697	9.8	22.2
5 31	17 32.07	-34 19.2	2.139	3.119	5.8	18.6	5 31	17 34.16	-29 50.6	1.712	2.701	5.9	22.0
6 10	17 22.66	-34 8.5	2.117	3.118	3.7	18.4	6 10	17 23.02	-29 37.3	1.695	2.705	2.6	21.8
6 20	17 13.10	-33 46.4	2.121	3.118	4.5	18.5	6 20	17 11.72	-29 14.1	1.705	2.708	4.2	21.9
6 30	17 4.38	-33 14.6	2.154	3.117	7.2	18.7	6 30	17 1.52	-28 43.3	1.742	2.711	8.1	22.1
7 10	16 57.36	-32 36.5	2.211	3.116	10.1	18.8	7 10	16 53.44	-28 8.9	1.803	2.713	11.8	22.4
7 20	16 52.57	-31 56.0	2.291	3.115	12.8	19.0	7 20	16 48.07	-27 35.0	1.886	2.714	15.0	22.6
<b>430663</b>	2003 <i>UO</i> <sub>3</sub>		6 11.8 253°99	11°9/10.5	18		<b>475047</b>	2005 <i>UK</i> <sub>85</sub>		6 11.8 194°44	0°7/11.7	18	
5 11	18 6.15	-53 17.7	2.111	2.878	15.3	21.9	5 11	17 42.99	-21 3.4	2.774	3.643	9.3	22.6
5 21	17 56.50	-55 6.2	2.018	2.852	13.8	21.7	5 21	17 37.31	-20 57.2	2.697	3.641	6.7	22.5
5 31	17 42.26	-56 36.7	1.948	2.824	12.5	21.5	5 31	17 30.25	-20 50.7	2.646	3.639	3.7	22.3
6 10	17 24.39	-57 38.3	1.900	2.795	11.9	21.4	6 10	17 22.41	-20 43.8	2.622	3.637	0.9	22.0
6 20	17 4.79	-58 3.4	1.876	2.765	12.4	21.4	6 20	17 14.43	-20 37.0	2.628	3.634	2.7	22.2
6 30	16 46.08	-57 50.3	1.876	2.734	13.8	21.4	6 30	17 6.99	-20 30.9	2.663	3.630	5.7	22.4
7 10	16 30.66	-57 5.2	1.897	2.702	15.7	21.5	7 10	17 0.71	-20 26.6	2.723	3.627	8.5	22.6
7 20	16 19.94	-55 58.4	1.936	2.669	17.8	21.6	7 20	16 56.01	-20 24.8	2.808	3.623	10.9	22.7
<b>162096</b>	1998 <i>QD</i> <sub>30</sub>		6 11.8 261°76	3°7/12.6	18		<b>489623</b>	2007 <i>TR</i> <sub>310</sub>		6 11.8 249°09	2°3/11.4	16	
5 11	17 48.37	-34 18.9	2.085	2.944	12.3	20.3	5 11	17 44.29	-17 12.4	2.111	2.986	11.5	22.1
5 21	17 41.82	-34 21.4	1.996	2.928	9.4	20.1	5 21	17 38.61	-16 55.4	2.031	2.977	8.4	21.9
5 31	17 33.02	-34 13.1	1.930	2.911	6.2	19.8	5 31	17 31.13	-16 40.6	1.976	2.967	5.0	21.7
6 10	17 22.83	-33 51.7	1.891	2.894	3.9	19.6	6 10	17 22.56	-16 28.8	1.947	2.958	2.4	21.5
6 20	17 12.32	-33 17.1	1.879	2.877	4.8	19.7	6 20	17 13.74	-16 21.1	1.946	2.948	4.1	21.6
6 30	17 2.64	-32 31.3	1.894	2.859	7.9	19.8	6 30	17 5.59	-16 18.2	1.972	2.937	7.6	21.8
7 10	16 54.82	-31 38.8	1.934	2.841	11.2	20.0	7 10	16 58.90	-16 21.0	2.023	2.927	11.0	21.9
7 20	16 49.49	-30 44.2	1.997	2.823	14.3	20.2	7 20	16 54.24	-16 29.8	2.095	2.916	13.9	22.1
<b>225912</b>	2002 <i>AW</i> <sub>63</sub>		6 11.8 68°86	6°3/13.5	17		<b>202942</b>	1999 <i>CK</i> <sub>89</sub>		6 11.8 173°90	3°8/12.5	18	
5 11	17 52.31	-39 32.8	1.650	2.504	15.3	19.4	5 11	17 52.83	-32 45.6	1.688	2.553	14.4	20.9
5 21	17 44.76	-39 48.5	1.604	2.525	12.0	19.3	5 21	17 45.26	-33 1.1	1.620	2.556	10.8	20.7
5 31	17 34.57	-39 46.7	1.579	2.547	8.7	19.1	5 31	17 35.00	-33 5.8	1.575	2.559	7.0	20.4
6 10	17 23.04	-39 24.3	1.579	2.569	6.5	19.0	6 10	17 23.16	-32 56.4	1.555	2.560	4.0	20.3
6 20	17 11.66	-38 41.9	1.604	2.591	6.9	19.1	6 20	17 11.10	-32 32.5	1.562	2.561	5.2	20.3
6 30	17 1.87	-37 43.8	1.655	2.612	9.4	19.3	6 30	17 0.27	-31 56.8	1.595	2.562	8.9	20.6
7 10	16 54.68	-36 36.8	1.729	2.634	12.5	19.5	7 10	16 51.82	-31 14.2	1.652	2.562	12.7	20.8
7 20	16 50.59	-35 27.6	1.824	2.655	15.3	19.8	7 20	16 46.39	-30 30.2	1.731	2.561	16.0	21.0
<b>151729</b>	2003 <i>BY</i> <sub>83</sub>		6 11.8 31°38	9°3/11.7	17		<b>273494</b>	2007 <i>AF</i> <sub>15</sub>		6 11.8 202°30	0°1/11.8	17	
5 11	17 44.13	- 2 2.9	1.408	2.273	16.8	19.5	5 11	17 48.15	-23 18.5	2.041	2.914	12.0	22.2
5 21	17 38.86	- 1 32.4	1.359	2.281	13.6	19.3	5 21	17 41.44	-23 11.2	1.964	2.910	8.6	22.0
5 31	17 31.35	- 1 22.1	1.329	2.288	10.8	19.2	5 31	17 32.73	-23 1.4	1.911	2.905	4.8	21.7
6 10	17 22.57	- 1 35.3	1.322	2.297	9.3	19.1	6 10	17 22.81	-22 48.7	1.885	2.900	0.8	21.4
6 20	17 13.66	- 2 12.8	1.338	2.306	10.1	19.2	6 20	17 12.65	-22 33.6	1.887	2.894	3.4	21.6
6 30	17 5.81	- 3 12.3	1.376	2.315	12.6	19.4	6 30	17 3.30	-22 17.7	1.917	2.887	7.4	21.9
7 10	16 59.98	- 4 29.3	1.436	2.325	15.5	19.6	7 10	16 55.65	-22 2.9	1.972	2.880	11.0	22.1
7 20	16 56.74	- 5 57.9	1.515	2.335	18.3	19.8	7 20	16 50.26	-21 51.2	2.050	2.872	14.1	22.3
<b>114614</b>	2003 <i>DQ</i> <sub>17</sub>		6 11.8 0°20	4°7/12.6	18		<b>67824</b>	2000 <i>VB</i> <sub>39</sub>		6 11.8 274°89	1°0/11.6	18	
5 11	17 45.92	-35 32.7	1.877	2.742	13.2	18.8	5 11	17 48.32	-22 19.2	1.526	2.412	14.5	18.9
5 21	17 40.18	-35 55.6	1.809	2.741	10.1	18.6	5 21	17 42.31	-21 54.5	1.437	2.390	10.6	18.7
5 31	17 32.12	-36 7.2	1.763	2.741	7.0	18.4	5 31	17 33.56	-21 26.4	1.371	2.367	6.0	18.3
6 10	17 22.69	-36 4.6	1.742	2.740	4.9	18.3	6 10	17 22.99	-20 55.2	1.329	2.344	1.3	18.0
6 20	17 13.05	-35 47.0	1.747	2.741	5.6	18.4	6 20	17 11.83	-20 22.5	1.313	2.320	4.6	18.1
6 30	17 4.41	-35 16.5	1.778	2.741	8.5	18.5	6 30	17 1.52	-19 51.2	1.323	2.296	9.7	18.3
7 10	16 57.79	-34 37.1	1.833	2.742	11.6	18.7	7 10	16 53.34	-19 24.7	1.355	2.272	14.4	18.6
7 20	16 53.79	-33 53.7	1.909	2.744	14.5	18.9	7 20	16 48.12	-19 5.7	1.407	2.247	18.5	18.8
<b>343348</b>	2010 <i>CR</i> <sub>59</sub>		6 11.8 200°00	10°9/10.1	18		<b>358366</b>	2006 <i>WW</i> <sub>201</sub>		6 11.8 202°95	0°9/11.7	18	
5 11	17 43.79	+ 7 35.0	2.084	2.885	14.4	20.5	5 11	17 43.17	-20 10.6	2.552	3.424	9.9	21.5
5 21	17 38.12	+ 8 29.9	2.024	2.884	12.7	20.4	5 21	17 37.54	-20 10.5	2.476	3.422	7.1	21.3
5 31	17 30.78	+ 9 4.7	1.986	2.882	11.4	20.3	5 31	17 30.44	-20 10.8	2.426	3.419	4.0	21.1
6 10	17 22.48	+ 9 15.4	1.970	2.880	10.9	20.3	6 10	17 22.46	-20 11.5	2.403	3.416	1.0	20.8
6 20	17 14.03	+ 9 0.1	1.978	2.877	11.4	20.3	6 20	17 14.32	-20 12.8	2.408	3.413	3.0	21.0
6 30	17 6.26	+ 8 19.4	2.008	2.874	12.7	20.4	6 30	17 6.75	-20 15.2	2.442	3.410	6.1	21.2
7 10	16 59.93	+ 7 16.5	2.059	2.871	14.5	20.5	7 10	17 0.43	-20 19.4	2.502	3.407	9.1	21.4
7 20	16 55.53	+ 5 56.2	2.130	2.868	16.2	20.6	7 20	16 55.81	-20 26.0	2.585	3.403	11.6	21.5
<b>64224</b>	2001 <i>TA</i> <sub>112</sub>		6 11.8 92°62	3°2/12.2	17		<b></b>						

EPHEMERIDES

6 11.8

6 11.8

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>342698</b>	2008 VB <sub>72</sub>		6 11.8 133°67'	3°9/11.5 18			<b>499169</b>	2009 SX <sub>97</sub>		6 11.8 168°78'	2°2/12.2 17		
5 11	17 45.02	-11 35.7	2.115	2.982	11.9	20.6	5 11	17 49.18	-29 56.0	2.413	3.272	10.9	22.9
5 21	17 38.98	-11 28.8	2.053	2.989	8.9	20.4	5 21	17 41.98	-30 11.8	2.342	3.277	8.0	22.7
5 31	17 31.26	-11 28.9	2.014	2.997	5.8	20.3	5 31	17 32.96	-30 21.5	2.295	3.282	4.9	22.5
6 10	17 22.60	-11 37.1	2.002	3.004	3.9	20.2	6 10	17 22.89	-30 23.3	2.277	3.286	2.4	22.3
6 20	17 13.81	-11 53.4	2.018	3.010	5.1	20.2	6 20	17 12.66	-30 16.8	2.287	3.289	3.6	22.4
6 30	17 5.76	-12 17.8	2.060	3.017	7.9	20.4	6 30	17 3.21	-30 3.1	2.326	3.291	6.6	22.6
7 10	16 59.19	-12 49.2	2.128	3.023	10.9	20.6	7 10	16 55.35	-29 44.7	2.391	3.293	9.6	22.8
7 20	16 54.58	-13 26.5	2.218	3.029	13.6	20.8	7 20	16 49.60	-29 24.5	2.480	3.294	12.2	23.0
<b>489260</b>	2006 RS <sub>101</sub>		6 11.8 288°38'	1°2/11.7 17			<b>342640</b>	2008 UD <sub>356</sub>		6 11.8 233°58'	2°0/11.4 17		
5 11	17 47.71	-20 6.4	1.509	2.395	14.6	21.6	5 11	17 44.92	-18 58.4	1.910	2.790	12.3	20.7
5 21	17 42.03	-20 9.3	1.414	2.367	10.7	21.3	5 21	17 39.16	-18 32.4	1.839	2.787	8.9	20.5
5 31	17 33.52	-20 13.9	1.342	2.338	6.2	21.0	5 31	17 31.48	-18 7.0	1.791	2.785	5.2	20.2
6 10	17 23.02	-20 19.9	1.295	2.309	1.5	20.6	6 10	17 22.68	-17 43.3	1.771	2.783	2.1	20.0
6 20	17 11.71	-20 26.8	1.273	2.280	4.6	20.7	6 20	17 13.69	-17 22.8	1.777	2.780	4.1	20.1
6 30	17 1.08	-20 35.3	1.276	2.250	9.9	20.9	6 30	17 5.52	-17 7.0	1.810	2.778	7.9	20.4
7 10	16 52.50	-20 46.6	1.302	2.220	14.7	21.1	7 10	16 59.00	-16 57.4	1.867	2.775	11.5	20.6
7 20	16 46.90	-21 2.1	1.346	2.190	19.0	21.3	7 20	16 54.70	-16 54.6	1.945	2.772	14.6	20.8
<b>58680</b>	1998 AO <sub>5</sub>		6 11.8 320°70'	5°3/12.7 18			<b>196692</b>	2003 SE <sub>71</sub>		6 11.8 196°49'	4°4/10.6 18		
5 11	17 47.50	-35 19.3	1.532	2.406	15.2	18.0	5 11	17 44.47	-11 22.7	2.334	3.196	11.0	21.2
5 21	17 41.85	-35 39.7	1.457	2.395	11.7	17.7	5 21	17 38.50	-10 35.7	2.261	3.193	8.4	21.0
5 31	17 33.31	-35 46.8	1.403	2.384	8.0	17.5	5 31	17 30.99	-9 53.7	2.213	3.190	5.8	20.8
6 10	17 22.95	-35 37.0	1.373	2.374	5.4	17.3	6 10	17 22.60	-9 18.9	2.192	3.187	4.4	20.7
6 20	17 12.19	-35 8.9	1.368	2.364	6.4	17.3	6 20	17 14.07	-8 53.4	2.199	3.183	5.5	20.8
6 30	17 2.58	-34 25.1	1.387	2.355	9.9	17.5	6 30	17 6.18	-8 38.6	2.234	3.179	8.1	20.9
7 10	16 55.43	-33 31.6	1.429	2.346	13.7	17.7	7 10	16 59.61	-8 34.6	2.293	3.174	10.8	21.1
7 20	16 51.47	-32 34.7	1.490	2.338	17.3	17.9	7 20	16 54.84	-8 41.0	2.374	3.168	13.3	21.3
<b>165364</b>	2000 WM <sub>96</sub>		6 11.8 133°17'	0°2/11.8 17			<b>215795</b>	2004 NF <sub>18</sub>		6 11.8 2°73'	1°5/11.5 16		
5 11	17 50.15	-23 30.9	1.708	2.585	13.7	20.8	5 11	17 37.93	-22 40.9	1.170	2.083	15.9	18.9
5 21	17 43.04	-23 34.5	1.649	2.597	9.8	20.6	5 21	17 34.96	-21 53.2	1.115	2.081	11.5	18.6
5 31	17 33.65	-23 35.8	1.613	2.608	5.5	20.4	5 31	17 29.41	-21 1.5	1.081	2.081	6.4	18.4
6 10	17 22.98	-23 33.7	1.604	2.619	0.9	20.1	6 10	17 22.37	-20 8.8	1.068	2.083	1.7	18.1
6 20	17 12.20	-23 28.3	1.622	2.629	3.8	20.3	6 20	17 15.17	-19 18.9	1.079	2.087	4.9	18.3
6 30	17 2.53	-23 20.9	1.666	2.638	8.1	20.6	6 30	17 9.20	-18 36.1	1.112	2.093	10.0	18.6
7 10	16 54.94	-23 13.8	1.735	2.647	12.0	20.8	7 10	17 5.51	-18 3.6	1.166	2.102	14.5	18.9
7 20	16 49.99	-23 9.0	1.825	2.655	15.3	21.1	7 20	17 4.68	-17 42.6	1.237	2.113	18.4	19.1
<b>198491</b>	2004 XD <sub>62</sub>		6 11.8 227°00'	0°4/11.8 18			<b>181241</b>	Dipascuale		6 11.8 83°89'	3°7/11.4 17		
5 11	17 47.60	-20 47.4	2.411	3.277	10.6	21.3	5 11	17 42.46	-11 31.0	2.300	3.167	11.0	20.1
5 21	17 40.94	-21 8.9	2.322	3.264	7.7	21.0	5 21	17 37.10	-11 21.0	2.233	3.169	8.3	19.9
5 31	17 32.46	-21 31.3	2.258	3.251	4.3	20.8	5 31	17 30.23	-11 17.6	2.190	3.171	5.5	19.8
6 10	17 22.82	-21 53.6	2.222	3.236	0.8	20.5	6 10	17 22.49	-11 21.8	2.173	3.174	3.8	19.6
6 20	17 12.82	-22 15.1	2.215	3.221	3.1	20.7	6 20	17 14.60	-11 34.0	2.184	3.176	4.8	19.7
6 30	17 3.36	-22 35.3	2.238	3.206	6.7	20.9	6 30	17 7.35	-11 54.2	2.222	3.178	7.5	19.9
7 10	16 55.26	-22 54.8	2.287	3.189	9.9	21.1	7 10	17 1.39	-12 21.6	2.286	3.180	10.3	20.1
7 20	16 49.10	-23 14.3	2.359	3.172	12.8	21.2	7 20	16 57.20	-12 55.1	2.371	3.183	12.8	20.2
<b>18977</b>	2000 QK <sub>217</sub>		6 11.8 318°33'	7°1/11.2 18			<b>342608</b>	2008 UM <sub>323</sub>		6 11.8 312°41'	0°7/12.0 18		
5 11	17 48.89	-34 47.0	1.468	2.343	15.6	16.3	5 11	17 45.62	-27 12.9	1.535	2.422	14.4	19.6
5 21	17 43.40	-36 20.9	1.387	2.324	12.3	16.1	5 21	17 40.31	-26 35.2	1.450	2.403	10.5	19.3
5 31	17 34.54	-37 48.2	1.328	2.304	9.0	15.8	5 31	17 32.40	-25 47.8	1.388	2.384	6.0	19.0
6 10	17 23.21	-39 0.8	1.293	2.286	7.1	15.7	6 10	17 22.85	-24 51.3	1.350	2.365	1.2	18.6
6 20	17 10.87	-39 52.2	1.282	2.268	8.3	15.7	6 20	17 12.91	-23 48.2	1.338	2.346	4.2	18.8
6 30	16 59.38	-40 20.1	1.295	2.250	11.7	15.8	6 30	17 3.95	-22 42.8	1.351	2.328	9.1	19.0
7 10	16 50.44	-40 27.5	1.329	2.234	15.5	16.0	7 10	16 57.14	-21 40.8	1.388	2.311	13.7	19.2
7 20	16 45.16	-40 20.3	1.382	2.218	19.0	16.2	7 20	16 53.20	-20 46.6	1.444	2.294	17.6	19.4
<b>57457</b>	2001 SC <sub>72</sub>		6 11.8 181°56'	1°4/11.6 18			<b>36630</b>	2000 QU <sub>170</sub>		6 11.8 277°33'	1°6/11.6 18		
5 11	17 43.75	-18 24.8	2.527	3.397	10.1	19.4	5 11	17 47.88	-20 39.5	1.464	2.352	14.9	18.6
5 21	17 37.95	-18 20.8	2.453	3.397	7.3	19.2	5 21	17 42.07	-20 19.2	1.379	2.332	10.9	18.3
5 31	17 30.66	-18 18.2	2.405	3.397	4.2	19.0	5 31	17 33.49	-19 57.8	1.315	2.311	6.3	18.0
6 10	17 22.52	-18 17.4	2.385	3.397	1.5	18.8	6 10	17 23.05	-19 35.9	1.276	2.290	1.8	17.7
6 20	17 14.23	-18 18.5	2.393	3.397	3.2	19.0	6 20	17 12.01	-19 14.9	1.262	2.268	4.8	17.8
6 30	17 6.54	-18 22.0	2.430	3.396	6.3	19.2	6 30	17 1.84	-18 57.0	1.273	2.247	10.0	18.0
7 10	17 0.11	-18 28.5	2.493	3.395	9.2	19.4	7 10	16 53.83	-18 44.9	1.307	2.225	14.7	18.2
7 20	16 55.39	-18 38.4	2.578	3.394	11.8	19.5	7 20	16 48.83	-18 40.3	1.360	2.203	18.8	18.4
<b>98828</b>	2001 AP <sub>3</sub>		6 11.8 99°78'	5°3/11.7 18			<b>258878</b>	2002 QD <sub>29</sub>		6 11.8 261°20'	3°5/11.4 18		
5 11	17 49.06	-9 35.0	1.578	2.448	15.0	19.2	5 11	17 47.98	-14 14.2	1.859	2.730	13.0	21.2
5 21	17 42.17	-9 30.2	1.530	2.466	11.4	19.0	5 21	17 41.67	-14 3.5	1.764	2.706	9.7	20.9
5 31	17 33.12	-9 36.9	1.504	2.484	7.7	18.8	5 31	17 33.09	-13 58.3	1.694	2.681	6.2	20.7
6 10	17 22.90	-9 56.1	1.503	2.502	5.3	18.7	6 10	17 22.98	-13 59.6	1.649	2.656	3.5	20.4
6 20	17 12.66	-10 27.5	1.528	2.519	6.6	18.8	6 20	17 12.31	-14 8.1	1.631	2.630	5.3	20.5
6 30	17 3.53	-11 9.5	1.579	2.536	9.8	19.1	6 30	17 2.23	-14 24.4	1.640	2.603	9.1	20.7
7 10	16 56.45	-11 59.8	1.653	2.553	13.3	19.3	7 10	16 53.78	-14 48.4	1.674	2.575	13.0	20.8
7 20	16 51.91	-12 56.1	1.748	2.569	16.3	19.5	7 20	16 47.73	-15 19.5	1.729	2.547	16.5	21.0
<b>391517</b>	2007 RP <sub>163</sub>		6 11.8 242°19'	1°4/12.1 18			<b>223477</b>	2					

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6 11.8

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>278379</b>	2007 <i>LU</i> <sub>26</sub>	6 11.8 324°69		7°4/11.5 18			<b>264284</b>	1998 <i>GP</i> <sub>8</sub>	6 11.8 37°53		4°1/12.1 17		
5 11	17 43.56	- 5 0.9	1.609	2.475	14.9	20.0	5 11	17 46.29	-11 57.9	1.308	2.196	16.3	18.8
5 21	17 38.50	- 4 42.5	1.538	2.466	11.9	19.8	5 21	17 40.56	-12 23.6	1.266	2.215	12.1	18.6
5 31	17 31.26	- 4 39.3	1.488	2.456	9.0	19.6	5 31	17 32.38	-13 1.3	1.244	2.234	7.6	18.4
6 10	17 22.68	- 4 54.5	1.462	2.447	7.5	19.5	6 10	17 22.86	-13 50.0	1.246	2.254	4.2	18.2
6 20	17 13.76	- 5 28.9	1.461	2.439	8.4	19.5	6 20	17 13.28	-14 47.4	1.273	2.275	5.8	18.4
6 30	17 5.62	- 6 21.5	1.484	2.431	11.2	19.7	6 30	17 4.97	-15 50.6	1.325	2.296	9.9	18.7
7 10	16 59.25	- 7 29.0	1.529	2.423	14.4	19.9	7 10	16 58.93	-16 56.8	1.398	2.318	13.8	18.9
7 20	16 55.29	- 8 47.4	1.593	2.416	17.5	20.0	7 20	16 55.72	-18 3.5	1.492	2.340	17.2	19.2
<b>247018</b>	1999 <i>XE</i> <sub>48</sub>	6 11.8 251°56		2°7/11.7 18			<b>179566</b>	2002 <i>EN</i> <sub>63</sub>	6 11.8 336°86		5°6/10.7 17		
5 11	17 47.49	-29 14.6	2.486	3.347	10.5	20.4	5 11	17 41.30	- 8 52.3	2.006	2.875	12.3	19.5
5 21	17 40.99	-30 14.3	2.402	3.338	7.8	20.2	5 21	17 36.48	- 8 11.5	1.936	2.869	9.5	19.4
5 31	17 32.57	-31 10.8	2.345	3.330	4.9	20.0	5 31	17 29.98	- 7 38.9	1.890	2.864	6.9	19.2
6 10	17 22.89	-32 1.0	2.316	3.322	2.8	19.8	6 10	17 22.49	- 7 17.4	1.869	2.859	5.6	19.1
6 20	17 12.80	-32 42.6	2.315	3.313	4.0	19.9	6 20	17 14.81	- 7 8.7	1.873	2.854	6.6	19.1
6 30	17 3.23	-33 14.5	2.344	3.305	6.9	20.1	6 30	17 7.80	- 7 13.8	1.904	2.849	9.2	19.3
7 10	16 55.07	-33 37.7	2.398	3.296	9.8	20.2	7 10	17 2.22	- 7 31.9	1.957	2.845	12.1	19.5
7 20	16 48.94	-33 54.2	2.476	3.287	12.3	20.4	7 20	16 58.57	- 8 1.2	2.032	2.841	14.7	19.6
<b>470454</b>	2007 <i>YX</i> <sub>47</sub>	6 11.8 225°21		1°4/11.9 18			<b>420329</b>	2012 <i>BE</i> <sub>8</sub>	6 11.8 3°29		4°6/12.8 17		
5 11	17 46.19	-26 29.9	2.294	3.164	11.0	21.4	5 11	17 49.27	-34 5.3	1.281	2.164	16.9	20.1
5 21	17 40.01	-26 53.3	2.214	3.157	8.0	21.2	5 21	17 43.32	-34 4.8	1.219	2.164	12.8	19.9
5 31	17 31.98	-27 13.6	2.159	3.151	4.6	21.0	5 31	17 34.18	-33 48.9	1.177	2.164	8.4	19.6
6 10	17 22.79	-27 29.2	2.131	3.144	1.6	20.7	6 10	17 23.16	-33 14.6	1.158	2.164	4.9	19.4
6 20	17 13.32	-27 39.1	2.131	3.136	3.3	20.9	6 20	17 11.94	-32 22.7	1.162	2.165	6.1	19.5
6 30	17 4.49	-27 43.8	2.159	3.129	6.8	21.1	6 30	17 2.25	-31 18.1	1.191	2.166	10.3	19.7
7 10	16 57.16	-27 44.6	2.213	3.121	10.0	21.2	7 10	16 55.42	-30 8.5	1.241	2.167	14.7	20.0
7 20	16 51.90	-27 43.5	2.290	3.113	12.8	21.4	7 20	16 52.09	-29 1.1	1.310	2.169	18.5	20.2
<b>75777</b>	2000 <i>AF</i> <sub>198</sub>	6 11.8 110°74		8°9/10.9 18			<b>87219</b>	2000 <i>OH</i> <sub>39</sub>	6 11.8 292°94		0°4/11.7 18		
5 11	17 43.61	+ 1 54.0	2.040	2.870	13.7	18.7	5 11	17 46.65	-24 55.5	1.624	2.509	13.9	19.2
5 21	17 37.99	+ 2 34.7	1.985	2.876	11.5	18.6	5 21	17 40.90	-24 12.2	1.539	2.491	10.1	19.0
5 31	17 30.74	+ 2 58.4	1.952	2.883	9.7	18.5	5 31	17 32.69	-23 21.5	1.477	2.473	5.7	18.7
6 10	17 22.58	+ 3 2.1	1.943	2.889	8.9	18.4	6 10	17 22.94	-22 24.6	1.441	2.456	0.9	18.3
6 20	17 14.33	+ 2 44.5	1.958	2.895	9.5	18.5	6 20	17 12.82	-21 24.3	1.431	2.438	4.1	18.5
6 30	17 6.82	+ 2 6.4	1.998	2.901	11.1	18.6	6 30	17 3.64	-20 24.6	1.447	2.421	8.9	18.7
7 10	17 0.76	+ 1 10.7	2.060	2.907	13.2	18.8	7 10	16 56.49	-19 30.4	1.486	2.403	13.3	18.9
7 20	16 56.63	+ 0 1.5	2.143	2.913	15.2	18.9	7 20	16 52.06	-18 45.0	1.546	2.386	17.1	19.1
<b>269945</b>	2000 <i>ST</i> <sub>15</sub>	6 11.8 166°81		6°2/10.4 18			<b>49672</b>	1999 <i>RM</i> <sub>103</sub>	6 11.8 261°22		1°9/12.2 18		
5 11	17 45.03	- 7 0.3	2.095	2.951	12.4	20.8	5 11	17 49.30	-28 42.3	1.588	2.467	14.4	18.7
5 21	17 38.99	- 6 7.5	2.032	2.955	9.7	20.6	5 21	17 42.95	-28 34.1	1.507	2.454	10.6	18.4
5 31	17 31.30	- 5 23.7	1.993	2.958	7.3	20.5	5 31	17 33.90	-28 17.3	1.448	2.441	6.3	18.1
6 10	17 22.67	- 4 52.2	1.980	2.961	6.2	20.4	6 10	17 23.14	-27 50.4	1.415	2.427	2.2	17.8
6 20	17 13.94	- 4 34.9	1.994	2.963	7.2	20.5	6 20	17 11.97	-27 14.1	1.407	2.414	4.4	17.9
6 30	17 5.94	- 4 32.9	2.033	2.965	9.5	20.6	6 30	17 1.82	-26 31.2	1.425	2.400	9.0	18.2
7 10	16 59.41	- 4 45.2	2.097	2.967	12.1	20.8	7 10	16 53.92	-25 46.5	1.467	2.385	13.4	18.4
7 20	16 54.83	- 5 10.1	2.181	2.968	14.5	21.0	7 20	16 49.00	-25 4.7	1.529	2.371	17.2	18.6
<b>442082</b>	2010 <i>SF</i> <sub>20</sub>	6 11.8 299°00		4°5/10.6 18			<b>251862</b>	1999 <i>UO</i> <sub>40</sub>	6 11.8 211°09		1°7/12.1 17		
5 11	17 41.80	-11 32.5	2.184	3.055	11.4	21.3	5 11	17 49.53	-27 32.6	1.726	2.602	13.6	21.1
5 21	17 36.75	-10 47.6	2.108	3.046	8.7	21.1	5 21	17 42.85	-27 36.4	1.652	2.598	10.0	20.9
5 31	17 30.10	-10 7.9	2.057	3.037	6.0	20.9	5 31	17 33.72	-27 34.0	1.601	2.593	5.8	20.7
6 10	17 22.50	- 9 36.0	2.031	3.028	4.5	20.8	6 10	17 23.10	-27 24.0	1.575	2.588	1.9	20.4
6 20	17 14.70	- 9 13.7	2.033	3.019	5.7	20.9	6 20	17 12.18	-27 6.2	1.577	2.583	4.1	20.5
6 30	17 7.53	- 9 2.7	2.061	3.010	8.4	21.0	6 30	17 2.26	-26 42.6	1.605	2.578	8.4	20.8
7 10	17 1.69	- 9 2.9	2.113	3.001	11.3	21.2	7 10	16 54.42	-26 16.6	1.657	2.572	12.4	21.0
7 20	16 57.69	- 9 13.9	2.186	2.993	13.9	21.4	7 20	16 49.33	-25 51.8	1.730	2.565	15.8	21.2
<b>65654</b>	1981 <i>ES</i> <sub>47</sub>	6 11.8 264°70		0°8/11.9 18			<b>93725</b>	2000 <i>VF</i> <sub>41</sub>	6 11.8 185°11		1°5/12.1 18		
5 11	17 49.01	-24 39.9	1.543	2.427	14.5	19.3	5 11	17 47.92	-27 29.5	2.179	3.047	11.5	20.6
5 21	17 42.84	-24 51.5	1.460	2.411	10.6	19.0	5 21	17 41.26	-27 38.2	2.105	3.047	8.4	20.4
5 31	17 33.91	-25 0.3	1.400	2.395	6.1	18.7	5 31	17 32.66	-27 41.9	2.055	3.046	4.9	20.2
6 10	17 23.13	-25 4.6	1.365	2.379	1.3	18.3	6 10	17 22.93	-27 39.5	2.033	3.046	1.7	20.0
6 20	17 11.80	-25 3.5	1.356	2.363	4.3	18.5	6 20	17 12.98	-27 30.6	2.039	3.044	3.4	20.1
6 30	17 1.36	-24 58.0	1.372	2.346	9.3	18.8	6 30	17 3.84	-27 16.6	2.073	3.042	7.0	20.3
7 10	16 53.11	-24 50.7	1.411	2.329	13.8	19.0	7 10	16 56.35	-26 59.8	2.132	3.040	10.3	20.5
7 20	16 47.86	-24 44.5	1.470	2.312	17.7	19.2	7 20	16 51.06	-26 42.6	2.214	3.037	13.2	20.7
<b>262285</b>	2006 <i>SU</i> <sub>374</sub>	6 11.8 136°68		1°1/11.9 17			<b>381504</b>	2008 <i>SY</i> <sub>129</sub>	6 11.8 152°56		0°4/11.8 17		
5 11	17 50.43	-24 26.5	1.822	2.696	13.1	21.3	5 11	17 46.23	-22 59.9	2.047	2.923	11.8	21.4
5 21	17 43.28	-25 0.9	1.760	2.706	9.5	21.1	5 21	17 40.00	-22 45.8	1.980	2.927	8.5	21.2
5 31	17 33.85	-25 33.4	1.722	2.715	5.4	20.9	5 31	17 31.93	-22 29.3	1.936	2.931	4.7	21.0
6 10	17 23.09	-26 1.6	1.711	2.725	1.4	20.6	6 10	17 22.81	-22 10.7	1.920	2.935	0.8	20.7
6 20	17 12.12	-26 23.7	1.727	2.733	3.8	20.8	6 20	17 13.56	-21 50.9	1.931	2.938	3.3	20.9
6 30	17 2.13	-26 40.0	1.771	2.742	7.9	21.1	6 30	17 5.15	-21 31.4	1.970	2.941	7.2	21.1
7 10	16 54.13	-26 51.9	1.839	2.749	11.6	21.3	7 10	16 58.40	-21 14.2	2.034	2.944	10.6	21.4
7 20	16 48.70	-27 1.5	1.930	2.757	14.7	21.6	7 20	16 53.81	-21 0.9	2.120	2.947	13.6	21.6
<b>508251</b>	2015 <i>HA</i> <sub>72</sub>	6 11.8 84°67		0°9/11.9 17									

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6 11.9

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>1265</b>	Schweikarda		6 11.8 198 <sup>o</sup> 11	3 <sup>o</sup> 4/12.7	18		<b>253630</b>	2003 <i>UM</i> <sub>98</sub>		6 11.8 209 <sup>o</sup> 81	5 <sup>o</sup> 4/10.7	17	
5 11	17 46.70	-34 24.6	2.390	3.245	11.1	16.3	5 11	17 47.36	-9 39.5	2.005	2.866	12.7	21.8
5 21	17 40.33	-34 31.5	2.314	3.244	8.4	16.2	5 21	17 40.87	-8 56.5	1.929	2.859	9.8	21.6
5 31	17 32.12	-34 29.0	2.263	3.242	5.6	16.0	5 31	17 32.49	-8 20.7	1.877	2.851	6.9	21.5
6 10	17 22.85	-34 15.5	2.239	3.240	3.6	15.8	6 10	17 22.96	-7 54.8	1.851	2.843	5.4	21.3
6 20	17 13.42	-33 50.9	2.242	3.238	4.3	15.9	6 20	17 13.19	-7 40.8	1.852	2.834	6.6	21.4
6 30	17 4.79	-33 16.9	2.273	3.236	6.9	16.0	6 30	17 4.13	-7 40.0	1.880	2.824	9.4	21.5
7 10	16 57.78	-32 37.0	2.330	3.233	9.7	16.2	7 10	16 56.63	-7 52.1	1.933	2.813	12.5	21.7
7 20	16 52.89	-31 54.7	2.409	3.231	12.3	16.4	7 20	16 51.26	-8 15.7	2.006	2.802	15.3	21.9
<b>448521</b>	2010 <i>OL</i> <sub>49</sub>		6 11.8 290 <sup>o</sup> 09	6 <sup>o</sup> 2/10.4	15		<b>2743</b>	Chengdu		6 11.9 248 <sup>o</sup> 44	1 <sup>o</sup> 0/11.6	18	
5 11	17 42.32	-5 35.1	2.281	3.134	11.6	21.8	5 11	17 46.77	-22 31.3	2.056	2.930	11.8	16.8
5 21	17 37.21	-4 56.3	2.188	3.107	9.3	21.6	5 21	17 40.52	-21 51.8	1.970	2.916	8.6	16.6
5 31	17 30.44	-4 26.5	2.118	3.079	7.2	21.4	5 31	17 32.32	-21 8.5	1.908	2.902	4.8	16.3
6 10	17 22.60	-4 8.7	2.074	3.052	6.2	21.3	6 10	17 22.94	-20 22.5	1.874	2.888	1.2	16.0
6 20	17 14.42	-4 4.9	2.056	3.024	7.1	21.3	6 20	17 13.31	-19 35.9	1.868	2.873	3.7	16.2
6 30	17 6.69	-4 16.1	2.065	2.996	9.4	21.4	6 30	17 4.42	-18 51.5	1.889	2.858	7.6	16.4
7 10	17 0.17	-4 41.7	2.097	2.968	12.1	21.5	7 10	16 57.16	-18 12.1	1.936	2.842	11.3	16.6
7 20	16 55.42	-5 19.8	2.150	2.939	14.6	21.6	7 20	16 52.09	-17 40.0	2.005	2.826	14.4	16.8
<b>326918</b>	2003 <i>YC</i> <sub>36</sub>		6 11.8 135 <sup>o</sup> 62	5 <sup>o</sup> 2/11.4	17		<b>84932</b>	2003 <i>WE</i> <sub>77</sub>		6 11.9 251 <sup>o</sup> 77	3 <sup>o</sup> 5/12.4	18	
5 11	17 47.79	-9 19.1	1.836	2.700	13.5	21.0	5 11	17 48.66	-33 30.4	2.424	3.278	11.0	20.6
5 21	17 41.13	-8 59.2	1.779	2.711	10.3	20.8	5 21	17 41.95	-33 52.6	2.328	3.257	8.4	20.4
5 31	17 32.56	-8 49.1	1.746	2.722	7.1	20.6	5 31	17 33.18	-34 6.9	2.257	3.236	5.6	20.2
6 10	17 22.93	-8 50.3	1.738	2.733	5.3	20.5	6 10	17 23.09	-34 10.9	2.213	3.214	3.6	20.0
6 20	17 13.20	-9 3.6	1.757	2.743	6.4	20.6	6 20	17 12.59	-34 3.3	2.196	3.192	4.4	20.0
6 30	17 4.38	-9 28.6	1.802	2.752	9.3	20.8	6 30	17 2.70	-33 44.9	2.208	3.169	7.2	20.2
7 10	16 57.31	-10 3.8	1.871	2.761	12.4	21.0	7 10	16 54.36	-33 18.5	2.246	3.145	10.2	20.3
7 20	16 52.49	-10 47.1	1.961	2.769	15.2	21.2	7 20	16 48.22	-32 47.7	2.307	3.121	13.0	20.4
<b>509327</b>	2006 <i>WO</i> <sub>162</sub>		6 11.8 198 <sup>o</sup> 62	0 <sup>o</sup> 2/11.9	18		<b>95625</b>	2002 <i>GX</i> <sub>32</sub>		6 11.9 21 <sup>o</sup> 10	0 <sup>o</sup> 3/12.6	06 C	
5 11	17 44.59	-23 29.0	2.702	3.569	9.6	22.4	5 11	17 24.40	-34 45.8	35.627	36.470	0.9	23.1
5 21	17 38.59	-23 39.9	2.623	3.566	6.9	22.2	5 21	17 23.46	-34 47.0	35.557	36.478	0.7	23.1
5 31	17 31.09	-23 49.5	2.570	3.563	3.9	22.0	5 31	17 22.44	-34 47.6	35.513	36.485	0.5	23.1
6 10	17 22.71	-23 57.0	2.544	3.559	0.7	21.7	6 10	17 21.36	-34 47.6	35.498	36.492	0.3	23.0
6 20	17 14.12	-24 2.2	2.548	3.555	2.7	21.9	6 20	17 20.28	-34 47.1	35.511	36.499	0.4	23.0
6 30	17 6.10	-24 5.4	2.581	3.550	5.8	22.1	6 30	17 19.24	-34 45.9	35.552	36.506	0.6	23.1
7 10	16 59.29	-24 7.8	2.640	3.545	8.7	22.2	7 10	17 18.26	-34 44.2	35.620	36.513	0.8	23.1
7 20	16 54.18	-24 10.3	2.723	3.540	11.2	22.4	7 20	17 17.40	-34 42.2	35.714	36.520	1.0	23.1
<b>5733</b>	1989 <i>AQ</i>		6 11.8 214 <sup>o</sup> 03	0 <sup>o</sup> 0/11.8	18 R		<b>471598</b>	2012 <i>SH</i>		6 11.9 27 <sup>o</sup> 50	6 <sup>o</sup> 6/12.9	17	
5 11	17 43.30	-23 14.1	2.795	3.663	9.3	18.3	5 11	17 50.09	-39 33.4	1.821	2.672	14.2	20.8
5 21	17 37.62	-23 14.8	2.713	3.657	6.6	18.1	5 21	17 43.47	-40 13.4	1.755	2.673	11.3	20.7
5 31	17 30.54	-23 14.0	2.658	3.651	3.7	17.9	5 31	17 34.16	-40 38.8	1.710	2.673	8.5	20.5
6 10	17 22.62	-23 11.5	2.630	3.645	0.6	17.6	6 10	17 23.24	-40 45.3	1.690	2.674	6.7	20.4
6 20	17 14.52	-23 7.2	2.631	3.638	2.6	17.8	6 20	17 12.05	-40 31.1	1.695	2.675	7.2	20.4
6 30	17 6.96	-23 2.0	2.662	3.631	5.6	18.0	6 30	17 2.00	-39 58.3	1.725	2.676	9.6	20.6
7 10	17 0.54	-22 56.8	2.719	3.624	8.5	18.2	7 10	16 54.29	-39 12.2	1.779	2.677	12.5	20.7
7 20	16 55.74	-22 52.9	2.799	3.616	10.9	18.3	7 20	16 49.57	-38 18.9	1.853	2.678	15.3	20.9
<b>37591</b>	1991 <i>TD</i> <sub>4</sub>		6 11.8 312 <sup>o</sup> 68	13 <sup>o</sup> 4/ 7.3	17		<b>113381</b>	2002 <i>SC</i> <sub>11</sub>		6 11.9 305 <sup>o</sup> 26	1 <sup>o</sup> 0/11.7	18 R	
5 11	17 42.06	+ 4 23.4	1.515	2.355	17.0	17.8	5 11	17 45.70	-21 24.7	1.364	2.259	15.3	19.3
5 21	17 37.70	+ 6 2.5	1.436	2.326	15.2	17.6	5 21	17 40.72	-21 15.6	1.280	2.236	11.2	19.0
5 31	17 31.01	+ 7 22.7	1.376	2.296	13.8	17.4	5 31	17 32.88	-21 5.8	1.217	2.214	6.4	18.6
6 10	17 22.74	+ 8 15.5	1.338	2.267	13.5	17.3	6 10	17 23.08	-20 55.4	1.178	2.192	1.4	18.3
6 20	17 13.91	+ 8 34.8	1.320	2.238	14.5	17.3	6 20	17 12.62	-20 45.0	1.163	2.170	4.7	18.4
6 30	17 5.72	+ 8 17.9	1.322	2.210	16.6	17.3	6 30	17 3.04	-20 36.2	1.172	2.149	10.1	18.7
7 10	16 59.28	+ 7 27.0	1.342	2.183	19.3	17.4	7 10	16 55.69	-20 31.5	1.202	2.128	15.1	18.9
7 20	16 55.37	+ 6 7.7	1.378	2.156	21.9	17.5	7 20	16 51.48	-20 32.6	1.251	2.108	19.4	19.1
<b>276093</b>	2002 <i>EK</i>		6 11.8 111 <sup>o</sup> 31	0 <sup>o</sup> 2/11.9	18		<b>150558</b>	2000 <i>SY</i> <sub>235</sub>		6 11.9 356 <sup>o</sup> 09	1 <sup>o</sup> 7/12.1	17	
5 11	17 54.11	-18 27.9	2.049	2.909	12.5	19.8	5 11	17 43.37	-26 36.8	1.219	2.121	16.2	19.1
5 21	17 45.69	-19 42.0	1.989	2.928	8.9	19.6	5 21	17 39.09	-26 43.1	1.157	2.116	11.8	18.9
5 31	17 35.16	-21 0.0	1.955	2.947	5.0	19.4	5 31	17 31.89	-26 43.5	1.115	2.113	6.9	18.6
6 10	17 23.37	-22 18.2	1.951	2.966	0.8	19.1	6 10	17 22.90	-26 36.6	1.096	2.110	2.0	18.3
6 20	17 11.36	-23 32.8	1.978	2.984	3.4	19.4	6 20	17 13.57	-26 22.5	1.100	2.109	4.7	18.4
6 30	17 0.21	-24 41.5	2.034	3.001	7.3	19.7	6 30	17 5.49	-26 3.2	1.127	2.108	9.9	18.7
7 10	16 50.88	-25 43.3	2.118	3.018	10.7	19.9	7 10	16 59.94	-25 42.7	1.175	2.109	14.6	19.0
7 20	16 43.94	-26 39.0	2.226	3.034	13.6	20.1	7 20	16 57.62	-25 24.2	1.241	2.112	18.6	19.2
<b>248238</b>	2005 <i>EQ</i> <sub>249</sub>		6 11.8 0 <sup>o</sup> 50	6 <sup>o</sup> 3/10.2	18		<b>422968</b>	2003 <i>FN</i> <sub>110</sub>		6 11.9 33 <sup>o</sup> 47	1 <sup>o</sup> 3/12.1	17	
5 11	17 36.17	+ 8 38.1	4.157	4.930	8.2	19.8	5 11	17 46.98	-26 45.0	1.545	2.430	14.4	20.5
5 21	17 32.14	+ 9 1.8	4.095	4.930	7.3	19.8	5 21	17 41.12	-26 43.0	1.483	2.434	10.4	20.3
5 31	17 27.34	+ 9 14.3	4.057	4.930	6.6	19.7	5 31	17 32.79	-26 35.1	1.443	2.438	6.0	20.0
6 10	17 22.12	+ 9 14.3	4.042	4.930	6.3	19.7	6 10	17 23.03	-26 20.5	1.428	2.441	1.7	19.7
6 20	17 16.84	+ 9 1.2	4.053	4.930	6.6	19.7	6 20	17 13.09	-25 59.5	1.438	2.446	4.1	19.9
6 30	17 11.87	+ 8 35.2	4.089	4.931	7.3	19.8	6 30	17 4.30	-25 34.7	1.474	2.450	8.6	20.2
7 10	17 7.56	+ 7 57.5	4.148	4.931	8.2	19.8	7 10	16 57.69	-25 9.3	1.533	2.455	12.7	20.4
7 20	17 4.17	+ 7 9.8	4.228										

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>357695</b>	2005 <i>OO</i> <sub>17</sub>		6 11.9 252°75	2°5/12.5 18			<b>118052</b>	4105 <i>T</i> <sub>-2</sub>		6 11.9 235°80	2°1/11.4 18		
5 11	17 45.95	-31 33.7	2.335	3.198	11.0	21.4	5 11	17 43.17	-16 6.0	2.958	3.821	9.0	21.7
5 21	17 39.86	-31 32.3	2.252	3.188	8.2	21.2	5 21	17 37.48	-15 50.0	2.866	3.805	6.6	21.5
5 31	17 31.93	-31 23.0	2.192	3.178	5.1	20.9	5 31	17 30.49	-15 35.9	2.800	3.788	4.0	21.3
6 10	17 22.90	-31 4.7	2.160	3.168	2.7	20.8	6 10	17 22.69	-15 24.5	2.763	3.771	2.1	21.1
6 20	17 13.64	-30 37.4	2.156	3.158	3.7	20.8	6 20	17 14.68	-15 16.5	2.755	3.754	3.4	21.2
6 30	17 5.12	-30 2.9	2.179	3.147	6.8	21.0	6 30	17 7.10	-15 12.5	2.776	3.735	6.0	21.3
7 10	16 58.14	-29 24.4	2.228	3.137	9.9	21.2	7 10	17 0.54	-15 13.2	2.824	3.717	8.6	21.5
7 20	16 53.27	-28 45.1	2.300	3.126	12.7	21.3	7 20	16 55.43	-15 18.7	2.895	3.697	10.9	21.6
<b>61426</b>	2000 <i>QP</i> <sub>16</sub>		6 11.9 194°99	3°2/11.5 18			<b>213534</b>	2002 <i>JX</i> <sub>28</sub>		6 11.9 56°26	0°6/11.9 17		
5 11	17 48.97	-15 9.1	1.778	2.651	13.4	19.5	5 11	17 49.45	-23 15.3	1.234	2.129	16.6	20.0
5 21	17 42.26	-14 56.5	1.706	2.649	9.9	19.3	5 21	17 43.18	-23 41.6	1.188	2.145	12.0	19.8
5 31	17 33.36	-14 48.8	1.657	2.646	6.1	19.1	5 31	17 34.02	-24 6.6	1.164	2.161	6.7	19.5
6 10	17 23.14	-14 46.7	1.635	2.643	3.3	18.9	6 10	17 23.25	-24 27.9	1.163	2.177	1.2	19.2
6 20	17 12.64	-14 50.9	1.639	2.639	5.0	19.0	6 20	17 12.40	-24 44.1	1.186	2.194	4.5	19.5
6 30	17 3.00	-15 2.0	1.671	2.634	8.9	19.2	6 30	17 3.03	-24 55.7	1.233	2.211	9.7	19.8
7 10	16 55.19	-15 19.9	1.726	2.629	12.6	19.4	7 10	16 56.31	-25 4.8	1.302	2.228	14.2	20.1
7 20	16 49.84	-15 44.3	1.803	2.623	15.9	19.6	7 20	16 52.85	-25 13.6	1.390	2.246	17.9	20.4
<b>23519</b>	1992 <i>SG</i> <sub>13</sub>		6 11.9 275°55	3°6/12.1 18			<b>451853</b>	2014 <i>DF</i> <sub>11</sub>		6 11.9 159°10	17°9/ 8.6 18		
5 11	17 50.85	-30 35.6	1.636	2.510	14.4	18.6	5 11	17 49.71	+13 30.4	1.348	2.142	21.1	20.9
5 21	17 44.42	-31 7.9	1.542	2.484	10.9	18.3	5 21	17 43.07	+15 32.7	1.310	2.148	19.5	20.8
5 31	17 34.99	-31 33.6	1.470	2.457	6.9	18.0	5 31	17 33.88	+17 1.3	1.288	2.153	18.3	20.8
6 10	17 23.45	-31 48.5	1.422	2.430	3.8	17.7	6 10	17 23.24	+17 47.2	1.285	2.158	17.9	20.7
6 20	17 11.09	-31 49.9	1.401	2.403	5.4	17.8	6 20	17 12.46	+17 46.3	1.300	2.161	18.5	20.8
6 30	16 59.49	-31 38.1	1.406	2.375	9.7	18.0	6 30	17 2.88	+17 0.1	1.333	2.164	19.8	20.9
7 10	16 50.10	-31 16.9	1.434	2.346	14.0	18.1	7 10	16 55.60	+15 35.8	1.382	2.167	21.5	21.0
7 20	16 43.87	-30 51.2	1.481	2.318	17.9	18.3	7 20	16 51.22	+13 42.8	1.444	2.168	23.2	21.2
<b>481742</b>	2008 <i>GH</i> <sub>115</sub>		6 11.9 298°55	4°0/11.9 18			<b>146568</b>	2001 <i>TW</i> <sub>54</sub>		6 11.9 155°34	0°7/12.0 18		
5 11	17 47.09	-32 23.6	2.224	3.086	11.5	21.1	5 11	17 48.75	-25 43.7	2.090	2.959	11.9	20.5
5 21	17 40.97	-33 22.6	2.144	3.077	8.8	20.9	5 21	17 41.83	-25 38.5	2.023	2.967	8.6	20.3
5 31	17 32.71	-34 16.0	2.088	3.068	5.9	20.7	5 31	17 33.00	-25 29.0	1.981	2.974	4.8	20.1
6 10	17 23.05	-35 0.0	2.059	3.059	4.0	20.6	6 10	17 23.10	-25 14.6	1.966	2.980	1.1	19.8
6 20	17 12.94	-35 32.1	2.058	3.051	5.0	20.6	6 20	17 13.08	-24 55.9	1.979	2.986	3.3	20.0
6 30	17 3.47	-35 51.7	2.084	3.042	7.8	20.8	6 30	17 3.97	-24 34.5	2.021	2.991	7.1	20.2
7 10	16 55.62	-36 0.5	2.135	3.034	10.7	20.9	7 10	16 56.57	-24 12.8	2.088	2.996	10.5	20.4
7 20	16 50.09	-36 1.6	2.208	3.025	13.4	21.1	7 20	16 51.43	-23 53.3	2.177	3.000	13.4	20.7
<b>281101</b>	2006 <i>WJ</i> <sub>17</sub>		6 11.9 234°60	2°2/11.9 18			<b>218654</b>	2005 <i>SU</i> <sub>144</sub>		6 11.9 144°21	2°9/11.4 18		
5 11	17 51.21	-26 44.0	1.910	2.779	12.8	21.1	5 11	17 47.08	-15 23.4	2.062	2.931	12.0	21.5
5 21	17 44.16	-27 33.4	1.824	2.766	9.4	20.8	5 21	17 40.54	-15 4.6	2.000	2.942	8.8	21.3
5 31	17 34.61	-28 20.8	1.763	2.753	5.6	20.6	5 31	17 32.25	-14 49.5	1.963	2.951	5.4	21.2
6 10	17 23.37	-29 2.5	1.728	2.740	2.4	20.3	6 10	17 22.98	-14 39.1	1.952	2.960	3.0	21.0
6 20	17 11.55	-29 35.9	1.722	2.725	4.3	20.4	6 20	17 13.62	-14 34.4	1.970	2.969	4.5	21.1
6 30	17 0.43	-29 59.9	1.743	2.711	8.3	20.6	6 30	17 5.09	-14 35.9	2.015	2.976	7.7	21.3
7 10	16 51.17	-30 16.1	1.789	2.695	12.1	20.8	7 10	16 58.14	-14 44.0	2.085	2.984	10.9	21.6
7 20	16 44.56	-30 27.0	1.857	2.679	15.4	21.0	7 20	16 53.28	-14 58.4	2.177	2.990	13.7	21.8
<b>41400</b>	2000 <i>AR</i> <sub>185</sub>		6 11.9 276°60	7°2/10.0 18			<b>58399</b>	1995 <i>VA</i> <sub>5</sub>		6 11.9 196°96	0°6/11.8 16		
5 11	17 43.85	- 6 9.6	1.890	2.751	13.3	18.5	5 11	17 50.96	-21 21.5	1.659	2.536	14.0	20.3
5 21	17 38.52	- 5 9.4	1.810	2.734	10.7	18.2	5 21	17 43.93	-21 27.1	1.586	2.534	10.2	20.1
5 31	17 31.27	- 4 18.6	1.754	2.718	8.3	18.1	5 31	17 34.42	-21 32.7	1.537	2.531	5.7	19.8
6 10	17 22.82	- 3 41.6	1.722	2.701	7.2	18.0	6 10	17 23.36	-21 37.3	1.513	2.527	1.1	19.5
6 20	17 14.04	- 3 21.3	1.716	2.684	8.3	18.0	6 20	17 11.95	-21 40.6	1.516	2.523	4.0	19.7
6 30	17 5.92	- 3 19.3	1.735	2.666	10.8	18.1	6 30	17 1.51	-21 43.3	1.546	2.518	8.7	19.9
7 10	16 59.31	- 3 35.2	1.776	2.649	13.8	18.3	7 10	16 53.16	-21 47.1	1.600	2.512	12.9	20.2
7 20	16 54.83	- 4 6.7	1.836	2.632	16.5	18.4	7 20	16 47.56	-21 53.5	1.675	2.505	16.4	20.4
<b>212353</b>	2005 <i>YG</i> <sub>172</sub>		6 11.9 38°14	9°6/14.4 18			<b>275138</b>	2009 <i>VC</i> <sub>74</sub>		6 11.9 150°45	1°0/12.0 17		
5 11	17 55.96	+ 1 19.9	1.003	1.863	22.4	19.3	5 11	17 48.56	-25 46.1	2.071	2.941	11.9	21.7
5 21	17 48.51	+ 0 5.8	0.944	1.865	18.1	19.1	5 21	17 41.76	-25 56.8	2.005	2.949	8.6	21.5
5 31	17 37.39	- 1 48.6	0.902	1.868	13.6	18.8	5 31	17 33.00	-26 3.7	1.963	2.956	4.9	21.3
6 10	17 23.83	- 4 23.3	0.882	1.872	10.1	18.6	6 10	17 23.11	-26 5.8	1.949	2.963	1.3	21.1
6 20	17 9.64	- 7 29.5	0.886	1.875	10.3	18.7	6 20	17 13.07	-26 2.7	1.963	2.969	3.4	21.3
6 30	16 56.86	-10 52.6	0.915	1.879	14.1	18.9	6 30	17 3.91	-25 55.6	2.004	2.975	7.1	21.5
7 10	16 47.17	-14 17.0	0.966	1.883	18.7	19.2	7 10	16 56.48	-25 46.3	2.071	2.980	10.5	21.7
7 20	16 41.51	-17 31.0	1.037	1.888	22.9	19.5	7 20	16 51.32	-25 37.3	2.160	2.985	13.4	21.9
<b>137687</b>	1999 <i>XV</i> <sub>55</sub>		6 11.9 175°42	0°4/11.8 17			<b>382198</b>	2012 <i>OC</i> <sub>3</sub>		6 11.9 343°35	1°5/12.2 17		
5 11	17 49.40	-23 29.8	2.038	2.908	12.1	20.8	5 11	17 45.92	-27 42.9	1.444	2.334	15.0	20.3
5 21	17 42.31	-23 6.1	1.966	2.911	8.7	20.6	5 21	17 40.60	-27 31.1	1.376	2.329	10.9	20.0
5 31	17 33.27	-22 39.0	1.920	2.914	4.9	20.4	5 31	17 32.64	-27 11.5	1.329	2.324	6.4	19.7
6 10	17 23.12	-22 8.7	1.901	2.915	0.8	20.1	6 10	17 23.08	-26 43.5	1.306	2.320	1.9	19.4
6 20	17 12.85	-21 36.6	1.910	2.916	3.4	20.3	6 20	17 13.25	-26 8.1	1.309	2.316	4.3	19.6
6 30	17 3.47	-21 5.0	1.947	2.916	7.4	20.5	6 30	17 4.56	-25 28.5	1.335	2.313	9.1	19.9
7 10	16 55.85	-20 36.4	2.010	2.916	10.9	20.7	7 10	16 58.17	-24 49.1	1.385	2.311	13.5	20.1
7 20	16 50.50	-20 12.8	2.095	2.914	14.0	20.9	7 20	16 54.73	-24 13.8	1.454	2.309	17.2	20.3
<b>258824</b>	2002 <i>OM</i> <sub>2</sub>		6 11.9 243°27	3°2/12.6 18			<b></b>						

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>290325</b>	2005 <i>SL</i> <sub>214</sub>		6 11.9 222°37'	3°5'/10.7 18			<b>163082</b>	2002 <i>AN</i> <sub>39</sub>		6 11.9 46°77'	2°5'/11.5 17		
5 11	17 42.59	-12 36.3	2.788	3.649	9.5	21.3	5 11	17 47.35	-19 10.0	1.196	2.095	16.8	19.6
5 21	17 37.07	-11 53.4	2.707	3.641	7.1	21.1	5 21	17 41.66	-18 42.5	1.147	2.105	12.1	19.3
5 31	17 30.26	-11 13.7	2.652	3.632	4.8	20.9	5 31	17 33.21	-18 16.7	1.119	2.115	7.0	19.1
6 10	17 22.70	-10 39.2	2.624	3.622	3.5	20.8	6 10	17 23.20	-17 54.2	1.113	2.126	2.7	18.9
6 20	17 14.99	-10 11.5	2.626	3.612	4.5	20.9	6 20	17 13.12	-17 36.9	1.131	2.137	5.4	19.1
6 30	17 7.78	-9 51.9	2.655	3.602	6.9	21.0	6 30	17 4.45	-17 26.9	1.173	2.148	10.4	19.4
7 10	17 1.64	-9 40.9	2.711	3.592	9.3	21.2	7 10	16 58.32	-17 25.3	1.236	2.160	14.9	19.7
7 20	16 57.00	-9 38.6	2.789	3.581	11.6	21.3	7 20	16 55.31	-17 32.4	1.317	2.172	18.7	19.9
<b>67117</b>	2000 <i>AA</i> <sub>117</sub>		6 11.9 187°22'	3°9'/11.2 18			<b>126306</b>	2002 <i>AR</i> <sub>120</sub>		6 11.9 149°51'	0°4'/11.8 18		
5 11	17 44.63	-9 57.4	2.666	3.519	10.1	19.0	5 11	17 44.11	-21 43.1	2.540	3.411	10.0	20.5
5 21	17 38.55	-9 39.4	2.592	3.519	7.7	18.9	5 21	17 38.29	-21 42.8	2.471	3.416	7.2	20.4
5 31	17 31.09	-9 27.7	2.543	3.518	5.3	18.7	5 31	17 30.98	-21 41.9	2.427	3.421	4.0	20.2
6 10	17 22.83	-9 23.4	2.521	3.516	3.9	18.6	6 10	17 22.84	-21 40.3	2.411	3.426	0.8	19.9
6 20	17 14.43	-9 27.2	2.529	3.513	4.9	18.7	6 20	17 14.58	-21 38.0	2.424	3.430	2.8	20.1
6 30	17 6.56	-9 39.5	2.564	3.510	7.1	18.8	6 30	17 6.94	-21 35.9	2.465	3.435	6.0	20.3
7 10	16 59.85	-9 59.7	2.626	3.506	9.6	19.0	7 10	17 0.60	-21 34.7	2.532	3.439	8.9	20.5
7 20	16 54.74	-10 26.9	2.710	3.502	11.9	19.1	7 20	16 55.99	-21 35.5	2.622	3.442	11.5	20.7
<b>187121</b>	2005 <i>QQ</i> <sub>82</sub>		6 11.9 258°97'	6°3'/10.0 18			<b>410769</b>	2009 <i>EG</i>		6 11.9 51°15'	14°2'/9.9 16		
5 11	17 42.22	-3 47.6	2.571	3.413	10.8	20.7	5 11	18 3.61	-45 26.6	1.241	2.082	20.0	19.5
5 21	17 36.96	-3 0.1	2.486	3.395	8.8	20.5	5 21	17 55.58	-48 40.7	1.201	2.095	17.2	19.3
5 31	17 30.28	-2 21.6	2.426	3.377	7.0	20.4	5 31	17 42.20	-51 32.1	1.183	2.109	15.0	19.2
6 10	17 22.72	-1 55.0	2.391	3.358	6.3	20.3	6 10	17 24.79	-53 43.9	1.187	2.124	14.2	19.2
6 20	17 14.93	-1 42.1	2.384	3.339	7.1	20.3	6 20	17 5.92	-55 5.4	1.213	2.138	15.0	19.3
6 30	17 7.60	-1 44.0	2.402	3.319	8.9	20.4	6 30	16 48.91	-55 37.0	1.260	2.153	16.9	19.5
7 10	17 1.37	-2 0.0	2.445	3.299	11.1	20.5	7 10	16 36.44	-55 29.4	1.324	2.169	19.2	19.7
7 20	16 56.70	-2 28.7	2.509	3.279	13.3	20.6	7 20	16 29.78	-54 56.8	1.404	2.184	21.4	19.9
<b>315884</b>	2008 <i>KM</i> <sub>14</sub>		6 11.9 288°17'	5°4'/10.9 18			<b>202848</b>	2008 <i>TG</i> <sub>48</sub>		6 11.9 312°13'	1°4'/11.7 17		
5 11	17 41.64	-6 30.4	2.360	3.216	11.2	20.8	5 11	17 45.23	-20 12.5	1.568	2.457	14.0	20.6
5 21	17 36.59	-6 5.0	2.288	3.210	8.8	20.6	5 21	17 39.95	-20 4.4	1.493	2.447	10.2	20.4
5 31	17 30.07	-5 48.8	2.239	3.205	6.6	20.5	5 31	17 32.27	-19 57.1	1.441	2.437	5.8	20.1
6 10	17 22.69	-5 43.8	2.216	3.199	5.5	20.4	6 10	17 23.08	-19 50.7	1.413	2.427	1.6	19.8
6 20	17 15.12	-5 51.2	2.220	3.194	6.3	20.4	6 20	17 13.52	-19 45.9	1.411	2.417	4.3	19.9
6 30	17 8.12	-6 11.0	2.250	3.189	8.4	20.6	6 30	17 4.84	-19 43.8	1.434	2.408	8.9	20.2
7 10	17 2.33	-6 42.1	2.305	3.183	10.9	20.7	7 10	16 58.14	-19 45.9	1.480	2.399	13.2	20.4
7 20	16 58.22	-7 22.7	2.381	3.178	13.2	20.9	7 20	16 54.10	-19 52.9	1.545	2.391	16.9	20.6
<b>236915</b>	2007 <i>TL</i> <sub>124</sub>		6 11.9 333°48'	2°8'/11.4 17			<b>314369</b>	2005 <i>UH</i> <sub>40</sub>		6 11.9 221°46'	0°4'/11.8 18		
5 11	17 43.77	-16 58.3	1.742	2.626	13.1	20.3	5 11	17 43.47	-21 59.4	2.772	3.640	9.3	21.9
5 21	17 38.59	-16 36.4	1.671	2.621	9.6	20.0	5 21	17 37.81	-21 54.2	2.689	3.633	6.7	21.8
5 31	17 31.36	-16 17.3	1.623	2.616	5.8	19.8	5 31	17 30.73	-21 48.0	2.631	3.625	3.8	21.5
6 10	17 22.90	-16 2.5	1.601	2.611	2.8	19.6	6 10	17 22.82	-21 40.8	2.602	3.616	0.7	21.3
6 20	17 14.20	-15 53.2	1.605	2.607	4.7	19.7	6 20	17 14.72	-21 32.9	2.601	3.607	2.7	21.4
6 30	17 6.32	-15 50.6	1.634	2.603	8.6	19.9	6 30	17 7.14	-21 25.1	2.629	3.598	5.7	21.6
7 10	17 0.17	-15 55.4	1.687	2.599	12.3	20.1	7 10	17 0.72	-21 18.5	2.684	3.589	8.6	21.8
7 20	16 56.35	-16 7.4	1.761	2.596	15.6	20.4	7 20	16 55.89	-21 14.1	2.762	3.579	11.0	22.0
<b>260097</b>	2004 <i>MX</i> <sub>3</sub>		6 11.9 175°99'	2°4'/12.6 18			<b>396559</b>	1999 <i>TA</i> <sub>287</sub>		6 11.9 251°35'	3°0'/10.9 18		
5 11	17 46.07	-32 10.9	2.577	3.435	10.3	20.9	5 11	17 42.73	-14 58.9	2.534	3.402	10.1	21.2
5 21	17 39.74	-32 1.7	2.503	3.436	7.6	20.7	5 21	17 37.34	-14 20.5	2.450	3.390	7.5	21.0
5 31	17 31.80	-31 44.5	2.453	3.437	4.8	20.5	5 31	17 30.49	-13 44.3	2.392	3.378	4.8	20.8
6 10	17 22.96	-31 18.6	2.431	3.438	2.5	20.4	6 10	17 22.78	-13 12.1	2.362	3.366	3.0	20.7
6 20	17 14.03	-30 44.6	2.437	3.438	3.4	20.4	6 20	17 14.89	-12 45.3	2.359	3.353	4.3	20.8
6 30	17 5.85	-30 4.4	2.472	3.438	6.2	20.6	6 30	17 7.53	-12 25.6	2.385	3.341	7.0	20.9
7 10	16 59.12	-29 21.0	2.533	3.438	9.0	20.8	7 10	17 1.36	-12 13.8	2.435	3.327	9.8	21.1
7 20	16 54.31	-28 37.5	2.617	3.438	11.5	21.0	7 20	16 56.83	-12 10.0	2.509	3.314	12.3	21.2
<b>10679</b>	Chankaochang		6 11.9 139°02'	3°5'/11.6 18			<b>427915</b>	2005 <i>UC</i> <sub>331</sub>		6 11.9 196°22'	5°7'/13.2 17		
5 11	17 43.95	-12 10.6	2.225	3.092	11.3	18.7	5 11	17 52.72	-39 48.6	2.106	2.945	13.0	21.4
5 21	17 38.30	-12 7.6	2.157	3.095	8.5	18.5	5 21	17 45.09	-40 8.0	2.030	2.942	10.3	21.2
5 31	17 31.04	-12 11.1	2.114	3.097	5.5	18.3	5 31	17 35.03	-40 13.1	1.978	2.939	7.6	21.1
6 10	17 22.84	-12 21.9	2.097	3.100	3.5	18.2	6 10	17 23.53	-40 0.4	1.951	2.936	5.8	21.0
6 20	17 14.49	-12 40.0	2.108	3.103	4.7	18.3	6 20	17 11.82	-39 29.1	1.950	2.932	6.3	21.0
6 30	17 6.79	-13 5.3	2.146	3.105	7.5	18.5	6 30	17 1.18	-38 41.4	1.977	2.927	8.6	21.1
7 10	17 0.46	-13 36.9	2.210	3.108	10.5	18.6	7 10	16 52.67	-37 42.6	2.029	2.922	11.4	21.3
7 20	16 55.99	-14 13.7	2.296	3.110	13.1	18.8	7 20	16 46.91	-36 38.7	2.102	2.917	14.1	21.4
<b>162898</b>	2001 <i>HK</i> <sub>22</sub>		6 11.9 137°27'	11°4'/8.0 18			<b>480752</b>	2016 <i>NJ</i> <sub>40</sub>		6 11.9 261°47'	3°6'/11.4 17		
5 11	17 52.07	-6 46.2	1.160	2.037	18.8	19.1	5 11	17 44.77	-13 48.7	1.876	2.752	12.7	21.2
5 21	17 44.92	-4 4.1	1.114	2.044	15.2	18.9	5 21	17 39.19	-13 31.7	1.805	2.748	9.5	21.0
5 31	17 34.96	-1 34.0	1.089	2.051	12.2	18.8	5 31	17 31.67	-13 20.2	1.757	2.744	6.0	20.8
6 10	17 23.47	+0 32.2	1.087	2.058	11.4	18.8	6 10	17 23.00	-13 15.8	1.735	2.741	3.7	20.6
6 20	17 11.96	+2 4.9	1.109	2.064	13.2	18.9	6 20	17 14.08	-13 19.3	1.740	2.737	5.2	20.7
6 30	17 1.95	+2 59.6	1.152	2.069	16.3	19.1	6 30	17 5.92	-13 31.0	1.770	2.733	8.5	20.9
7 10	16 54.56	+3 18.3	1.214	2.074	19.6	19.3	7 10	16 59.38	-13 50.9	1.825	2.729	12.0	21.1
7 20	16 50.37	+3 6.6	1.291	2.079	22.6	19.5	7 20	16 55.03	-14 18.0	1.901	2.725	15.0	21.3
<b>432774</b>	2011 <i>FM</i> <sub>31</sub>		6 11.9 149°61'	4°6'/12.2 17			<b>289424</b>	2005 <i>EQ</i> <sub>12</sub>		6 11.9 153°0			



EPHEMERIDES

6 11.9

6 11.9

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>407735</b>	2011 <i>UJ</i> <sub>366</sub>		6 11.9 353°33	4°3/11.5	17		<b>457668</b>	2009 <i>DW</i> <sub>35</sub>		6 11.9 118°45	1°2/11.8	17	
5 11	17 45.03	-15 36.4	1.067	1.972	17.8	20.4	5 11	17 49.96	-20 38.6	1.549	2.431	14.6	21.9
5 21	17 40.43	-15 12.2	1.009	1.968	13.2	20.2	5 21	17 43.16	-20 32.7	1.492	2.443	10.5	21.7
5 31	17 32.76	-14 54.9	0.970	1.965	8.1	19.9	5 31	17 33.97	-20 27.0	1.459	2.454	5.9	21.4
6 10	17 23.20	-14 47.1	0.953	1.963	4.4	19.6	6 10	17 23.43	-20 21.3	1.450	2.465	1.4	21.2
6 20	17 13.26	-14 50.3	0.958	1.962	6.7	19.8	6 20	17 12.78	-20 16.2	1.468	2.475	4.2	21.4
6 30	17 4.62	-15 5.1	0.985	1.961	11.8	20.0	6 30	17 3.30	-20 12.8	1.512	2.485	8.8	21.7
7 10	16 58.61	-15 31.2	1.031	1.961	16.6	20.3	7 10	16 56.01	-20 12.8	1.580	2.495	12.8	21.9
7 20	16 55.99	-16 6.7	1.095	1.962	20.8	20.6	7 20	16 51.46	-20 17.1	1.668	2.504	16.2	22.2
<b>65275</b>	2002 <i>GN</i> <sub>55</sub>		6 11.9 291°73	4°5/12.3	18		<b>516699</b>	2008 <i>UA</i> <sub>374</sub>		6 11.9 280°60	5°8/11.9	16	
5 11	17 49.66	-32 8.4	1.403	2.284	15.9	19.0	5 11	17 50.17	-35 33.6	1.846	2.706	13.6	20.5
5 21	17 43.92	-32 36.9	1.317	2.262	12.1	18.7	5 21	17 43.76	-36 39.2	1.766	2.694	10.6	20.3
5 31	17 34.89	-32 55.9	1.253	2.240	7.9	18.4	5 31	17 34.61	-37 36.0	1.709	2.681	7.7	20.1
6 10	17 23.59	-33 0.5	1.212	2.218	4.7	18.1	6 10	17 23.58	-38 18.7	1.677	2.669	5.8	19.9
6 20	17 11.50	-32 48.3	1.195	2.196	6.2	18.2	6 20	17 11.93	-38 43.6	1.671	2.657	6.7	19.9
6 30	17 0.40	-32 20.6	1.202	2.174	10.6	18.4	6 30	17 1.09	-38 50.2	1.691	2.644	9.6	20.1
7 10	16 51.89	-31 42.5	1.231	2.152	15.2	18.6	7 10	16 52.37	-38 41.8	1.734	2.632	12.8	20.3
7 20	16 46.91	-31 0.6	1.279	2.131	19.3	18.8	7 20	16 46.60	-38 23.4	1.798	2.620	15.8	20.4
<b>296222</b>	2009 <i>CN</i> <sub>29</sub>		6 11.9 312°05	0°6/11.8	18		<b>116904</b>	2004 <i>GB</i> <sub>1</sub>		6 11.9 13°70	4°1/11.4	18	
5 11	17 44.69	-21 14.6	1.903	2.785	12.3	21.0	5 11	17 48.45	-25 52.6	1.124	2.025	17.5	18.3
5 21	17 39.22	-21 17.4	1.829	2.779	8.9	20.7	5 21	17 43.21	-27 40.9	1.071	2.028	12.9	18.0
5 31	17 31.74	-21 20.2	1.779	2.774	5.0	20.5	5 31	17 34.53	-29 30.0	1.039	2.033	7.9	17.8
6 10	17 23.04	-21 22.9	1.754	2.768	1.0	20.2	6 10	17 23.58	-31 11.0	1.030	2.040	4.2	17.6
6 20	17 14.06	-21 25.4	1.756	2.763	3.5	20.4	6 20	17 12.04	-32 36.2	1.045	2.047	6.5	17.7
6 30	17 5.85	-21 28.3	1.785	2.758	7.6	20.6	6 30	17 1.84	-33 41.7	1.082	2.056	11.3	18.0
7 10	16 59.29	-21 32.7	1.839	2.754	11.3	20.8	7 10	16 54.57	-34 29.0	1.141	2.066	15.8	18.3
7 20	16 55.00	-21 39.6	1.913	2.749	14.5	21.0	7 20	16 51.11	-35 2.0	1.217	2.077	19.6	18.6
<b>476258</b>	2007 <i>VF</i> <sub>103</sub>		6 11.9 281°46	0°1/11.9	16		<b>410339</b>	2007 <i>UV</i> <sub>75</sub>		6 11.9 147°23	0°5/11.9	17	
5 11	17 45.56	-22 52.5	1.918	2.797	12.3	21.8	5 11	17 50.49	-24 43.5	1.700	2.577	13.8	22.3
5 21	17 39.90	-23 0.0	1.838	2.788	8.9	21.6	5 21	17 43.49	-24 43.2	1.638	2.585	9.9	22.1
5 31	17 32.16	-23 6.4	1.783	2.778	5.0	21.3	5 31	17 34.15	-24 39.2	1.598	2.592	5.6	21.8
6 10	17 23.11	-23 10.9	1.753	2.768	0.8	21.0	6 10	17 23.47	-24 30.6	1.584	2.599	1.1	21.5
6 20	17 13.73	-23 13.4	1.751	2.759	3.5	21.2	6 20	17 12.64	-24 17.5	1.598	2.605	3.8	21.8
6 30	17 5.09	-23 14.4	1.775	2.749	7.6	21.4	6 30	17 2.89	-24 1.9	1.638	2.611	8.2	22.0
7 10	16 58.13	-23 15.3	1.824	2.739	11.4	21.6	7 10	16 55.24	-23 46.3	1.703	2.616	12.1	22.3
7 20	16 53.48	-23 17.8	1.894	2.730	14.6	21.8	7 20	16 50.27	-23 33.3	1.788	2.621	15.5	22.5
<b>305492</b>	2008 <i>ES</i> <sub>35</sub>		6 11.9 106°22	1°3/12.1	17		<b>395680</b>	2011 <i>WW</i> <sub>143</sub>		6 11.9 235°34	0°1/11.9	18	
5 11	17 45.60	-26 55.5	2.395	3.263	10.6	21.5	5 11	17 45.06	-21 49.3	2.376	3.247	10.6	21.2
5 21	17 39.45	-27 6.9	2.334	3.276	7.7	21.4	5 21	17 39.22	-22 9.0	2.296	3.241	7.6	21.0
5 31	17 31.68	-27 14.3	2.297	3.289	4.4	21.2	5 31	17 31.67	-22 28.9	2.241	3.234	4.3	20.8
6 10	17 23.01	-27 16.7	2.288	3.301	1.5	21.0	6 10	17 23.08	-22 48.2	2.213	3.228	0.7	20.5
6 20	17 14.26	-27 14.1	2.308	3.313	3.0	21.1	6 20	17 14.22	-23 6.1	2.214	3.221	2.9	20.7
6 30	17 6.25	-27 7.2	2.355	3.325	6.2	21.4	6 30	17 5.94	-23 22.4	2.243	3.214	6.4	20.9
7 10	16 59.71	-26 57.9	2.428	3.337	9.2	21.6	7 10	16 59.00	-23 37.9	2.298	3.207	9.6	21.1
7 20	16 55.10	-26 48.1	2.524	3.348	11.7	21.8	7 20	16 53.96	-23 53.2	2.376	3.200	12.4	21.2
<b>258926</b>	2002 <i>RV</i> <sub>60</sub>		6 11.9 288°91	4°4/12.1	18		<b>327688</b>	2006 <i>RK</i> <sub>82</sub>		6 11.9 176°94	3°3/11.3	17	
5 11	17 49.88	-31 18.7	1.525	2.403	15.0	19.8	5 11	17 47.69	-15 46.4	1.797	2.672	13.2	21.5
5 21	17 43.95	-32 4.2	1.436	2.379	11.4	19.5	5 21	17 41.32	-15 15.7	1.729	2.674	9.7	21.3
5 31	17 34.90	-32 43.1	1.369	2.355	7.5	19.2	5 31	17 32.90	-14 48.3	1.686	2.675	6.0	21.0
6 10	17 23.62	-33 10.6	1.326	2.332	4.5	18.9	6 10	17 23.28	-14 26.0	1.668	2.675	3.4	20.9
6 20	17 11.49	-33 23.0	1.308	2.308	6.0	19.0	6 20	17 13.47	-14 10.4	1.677	2.676	5.1	21.0
6 30	17 0.17	-33 20.0	1.315	2.284	10.2	19.1	6 30	17 4.56	-14 2.7	1.713	2.676	8.7	21.2
7 10	16 51.21	-33 5.4	1.344	2.260	14.6	19.3	7 10	16 57.43	-14 3.7	1.773	2.675	12.3	21.4
7 20	16 45.59	-32 44.2	1.392	2.236	18.5	19.5	7 20	16 52.66	-14 13.3	1.853	2.674	15.5	21.6
<b>242263</b>	2003 <i>SN</i> <sub>322</sub>		6 11.9 245°81	1°8/12.3	18		<b>5819</b>	<i>Lauretta</i>		6 11.9 194°80	2°8/11.5	18	R
5 11	17 47.26	-28 59.6	2.069	2.938	12.0	20.6	5 11	17 46.93	-15 37.1	2.065	2.935	12.0	18.1
5 21	17 41.04	-28 56.8	1.986	2.928	8.8	20.4	5 21	17 40.62	-15 21.3	1.991	2.933	8.8	17.9
5 31	17 32.76	-28 47.1	1.928	2.918	5.3	20.2	5 31	17 32.46	-15 9.1	1.942	2.930	5.4	17.7
6 10	17 23.22	-28 29.6	1.896	2.908	2.1	19.9	6 10	17 23.21	-15 1.3	1.919	2.927	2.9	17.5
6 20	17 13.41	-28 4.4	1.892	2.897	3.6	20.0	6 20	17 13.74	-14 58.8	1.924	2.924	4.4	17.6
6 30	17 4.39	-27 33.4	1.915	2.886	7.3	20.2	6 30	17 4.99	-15 2.3	1.957	2.920	7.8	17.8
7 10	16 57.08	-26 59.7	1.964	2.875	10.9	20.4	7 10	16 57.79	-15 12.1	2.015	2.915	11.2	18.0
7 20	16 52.09	-26 26.7	2.034	2.864	14.0	20.6	7 20	16 52.69	-15 28.1	2.094	2.910	14.1	18.2
<b>247720</b>	2003 <i>FS</i> <sub>74</sub>		6 11.9 22°46	9°7/10.4	18		<b>69628</b>	1998 <i>FD</i> <sub>62</sub>		6 11.9 349°54	5°6/12.6	18	
5 11	17 41.37	+ 1 16.7	1.801	2.644	14.6	19.9	5 11	17 48.54	-33 58.7	1.250	2.136	17.1	17.9
5 21	17 36.65	+ 2 16.6	1.751	2.651	12.4	19.8	5 21	17 43.15	-34 34.2	1.187	2.132	13.1	17.7
5 31	17 30.21	+ 2 58.5	1.723	2.658	10.5	19.7	5 31	17 34.41	-34 56.8	1.144	2.129	8.8	17.4
6 10	17 22.81	+ 3 18.3	1.718	2.666	9.8	19.6	6 10	17 23.55	-35 1.4	1.123	2.126	5.8	17.3
6 20	17 15.32	+ 3 14.1	1.737	2.675	10.4	19.7	6 20	17 12.27	-34 46.2	1.126	2.124	7.0	17.3
6 30	17 8.64	+ 2 46.3	1.778	2.684	12.1	19.8	6 30	17 2.41	-34 13.6	1.151	2.123	10.9	17.5
7 10	17 3.51	+ 1 58.1	1.840	2.693	14.3	20.0	7 10	16 55.44	-33 30.1	1.197	2.122	15.2	17.8
7 20	17 0.40	+ 0 54.0	1.921	2.704	16.4	20.2	7 20	16 52.12	-32 42.5	1.261	2.122	19.0	18.0
<b>255116</b>	2005 <i>UJ</i> <sub>104</sub>		6 11.9 262°31	2°6/11.2	18		<b></b>						

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>522901</b>	2016 <i>PY</i> <sub>104</sub>		6 11.9 262°93	0°6/11.9 17			<b>338735</b>	2003 <i>UW</i> <sub>124</sub>		6 11.9 300°35	1°4/11.9 17		
5 11	17 46.07	-23 39.8	2.083	2.958	11.7	21.3	5 11	17 46.57	-25 11.1	1.718	2.601	13.4	20.3
5 21	17 40.19	-24 3.7	2.003	2.950	8.5	21.0	5 21	17 41.01	-25 40.3	1.635	2.585	9.8	20.1
5 31	17 32.33	-24 26.7	1.948	2.942	4.8	20.8	5 31	17 33.01	-26 7.9	1.575	2.570	5.7	19.8
6 10	17 23.21	-24 47.4	1.919	2.933	1.0	20.5	6 10	17 23.37	-26 31.6	1.541	2.554	1.7	19.5
6 20	17 13.76	-25 4.8	1.918	2.925	3.3	20.7	6 20	17 13.22	-26 49.6	1.532	2.539	4.0	19.6
6 30	17 4.97	-25 18.7	1.944	2.916	7.2	20.9	6 30	17 3.82	-27 1.9	1.550	2.524	8.4	19.8
7 10	16 57.75	-25 30.2	1.996	2.908	10.7	21.1	7 10	16 56.31	-27 10.0	1.591	2.510	12.5	20.1
7 20	16 52.72	-25 40.7	2.069	2.899	13.8	21.3	7 20	16 51.48	-27 16.1	1.653	2.495	16.1	20.2
<b>333590</b>	2007 <i>CU</i> <sub>26</sub>		6 11.9 339°68	2°2/11.6 18			<b>181640</b>	2006 <i>XJ</i> <sub>47</sub>		6 11.9 306°50	2°7/11.7 18		
5 11	17 44.33	-22 0.9	1.125	2.031	17.0	18.9	5 11	17 43.85	-14 35.8	2.074	2.948	11.8	19.9
5 21	17 40.46	-23 34.1	1.049	2.011	12.5	18.6	5 21	17 38.49	-14 41.8	1.997	2.940	8.7	19.7
5 31	17 33.19	-25 17.1	0.994	1.992	7.2	18.2	5 31	17 31.34	-14 53.4	1.944	2.933	5.3	19.5
6 10	17 23.43	-27 3.7	0.961	1.975	2.4	17.9	6 10	17 23.08	-15 11.0	1.918	2.926	2.8	19.3
6 20	17 12.62	-28 45.9	0.952	1.959	5.6	18.0	6 20	17 14.54	-15 34.3	1.919	2.920	4.3	19.4
6 30	17 2.66	-30 17.2	0.965	1.945	11.3	18.3	6 30	17 6.63	-16 2.9	1.947	2.913	7.6	19.6
7 10	16 55.32	-31 34.9	0.998	1.933	16.6	18.5	7 10	17 0.16	-16 36.3	1.999	2.906	10.9	19.8
7 20	16 51.79	-32 39.7	1.049	1.922	21.1	18.8	7 20	16 55.70	-17 13.5	2.074	2.900	13.9	20.0
<b>99343</b>	2001 <i>XO</i> <sub>83</sub>		6 11.9 354°37	4°2/10.9 18			<b>245085</b>	2004 <i>OV</i> <sub>6</sub>		6 11.9 270°23	0°3/11.9 18		
5 11	17 42.97	-18 57.4	0.992	1.905	18.0	18.0	5 11	17 44.40	-23 58.2	2.380	3.252	10.5	20.7
5 21	17 39.09	-17 45.5	0.935	1.900	13.2	17.7	5 21	17 38.82	-24 0.8	2.290	3.236	7.6	20.5
5 31	17 32.08	-16 32.3	0.898	1.895	8.0	17.4	5 31	17 31.51	-24 1.3	2.226	3.220	4.3	20.3
6 10	17 23.19	-15 23.3	0.882	1.892	4.3	17.2	6 10	17 23.12	-23 59.2	2.189	3.204	0.8	20.0
6 20	17 14.01	-14 24.3	0.887	1.890	7.1	17.3	6 20	17 14.42	-23 54.6	2.180	3.187	3.0	20.1
6 30	17 6.23	-13 41.0	0.913	1.890	12.3	17.6	6 30	17 6.29	-23 48.2	2.199	3.171	6.5	20.3
7 10	17 1.18	-13 16.0	0.958	1.891	17.3	17.9	7 10	16 59.50	-23 41.4	2.244	3.154	9.8	20.5
7 20	16 59.54	-13 9.0	1.020	1.893	21.6	18.2	7 20	16 54.61	-23 35.7	2.311	3.137	12.6	20.6
<b>509887</b>	2009 <i>BQ</i> <sub>88</sub>		6 11.9 232°40	1°2/11.7 18			<b>242366</b>	2004 <i>CP</i> <sub>29</sub>		6 11.9 15°92	1°3/11.7 18 R		
5 11	17 45.95	-19 34.2	2.490	3.358	10.3	22.9	5 11	17 44.92	-19 46.0	1.966	2.845	12.1	20.9
5 21	17 39.80	-19 27.0	2.401	3.343	7.5	22.7	5 21	17 39.29	-19 41.1	1.897	2.845	8.7	20.7
5 31	17 31.99	-19 20.1	2.336	3.328	4.3	22.4	5 31	17 31.78	-19 37.1	1.851	2.845	5.0	20.4
6 10	17 23.16	-19 13.8	2.300	3.313	1.3	22.2	6 10	17 23.16	-19 34.2	1.832	2.846	1.5	20.2
6 20	17 14.05	-19 8.5	2.292	3.297	3.2	22.3	6 20	17 14.33	-19 32.8	1.840	2.846	3.6	20.3
6 30	17 5.48	-19 4.9	2.313	3.280	6.6	22.5	6 30	17 6.28	-19 33.5	1.875	2.846	7.5	20.6
7 10	16 58.18	-19 4.0	2.361	3.263	9.7	22.7	7 10	16 59.85	-19 37.4	1.934	2.846	11.0	20.8
7 20	16 52.69	-19 6.6	2.431	3.245	12.4	22.8	7 20	16 55.56	-19 45.1	2.015	2.847	14.0	21.0
<b>247086</b>	2000 <i>SZ</i> <sub>137</sub>		6 11.9 252°62	4°0/12.5 18			<b>74276</b>	1998 <i>SZ</i> <sub>118</sub>		6 11.9 258°88	2°8/12.3 18		
5 11	17 51.94	-32 37.9	1.647	2.515	14.6	20.9	5 11	17 47.92	-30 34.7	2.124	2.990	11.9	19.7
5 21	17 45.13	-32 57.8	1.562	2.499	11.1	20.6	5 21	17 41.66	-30 56.3	2.036	2.974	8.9	19.5
5 31	17 35.41	-33 7.6	1.499	2.483	7.2	20.4	5 31	17 33.24	-31 11.5	1.971	2.958	5.6	19.3
6 10	17 23.75	-33 3.5	1.460	2.466	4.2	20.2	6 10	17 23.41	-31 18.0	1.933	2.941	3.0	19.1
6 20	17 11.53	-32 43.8	1.448	2.449	5.5	20.2	6 20	17 13.17	-31 14.7	1.923	2.924	4.2	19.1
6 30	17 0.29	-32 10.6	1.462	2.431	9.4	20.4	6 30	17 3.63	-31 2.2	1.940	2.907	7.6	19.3
7 10	16 51.38	-31 28.6	1.500	2.412	13.5	20.6	7 10	16 55.76	-30 43.4	1.982	2.890	11.0	19.5
7 20	16 45.62	-30 43.8	1.557	2.393	17.2	20.8	7 20	16 50.24	-30 21.4	2.046	2.872	14.0	19.6
<b>436327</b>	2010 <i>GV</i> <sub>32</sub>		6 11.9 46°06	6°5/11.3 17			<b>25207</b>	1998 <i>SY</i> <sub>145</sub>		6 11.9 333°07	1°9/12.1 18		
5 11	17 44.32	- 7 52.0	1.600	2.473	14.7	20.5	5 11	17 43.49	-26 6.8	1.136	2.042	16.9	18.0
5 21	17 38.93	- 7 16.4	1.550	2.484	11.4	20.3	5 21	17 39.69	-26 27.7	1.063	2.024	12.4	17.7
5 31	17 31.56	- 6 53.0	1.522	2.496	8.3	20.2	5 31	17 32.64	-26 44.9	1.008	2.006	7.3	17.4
6 10	17 23.08	- 6 44.5	1.518	2.509	6.6	20.1	6 10	17 23.36	-26 55.7	0.976	1.989	2.3	17.0
6 20	17 14.54	- 6 52.3	1.540	2.521	7.6	20.2	6 20	17 13.36	-26 58.4	0.965	1.974	5.2	17.1
6 30	17 6.97	- 7 15.9	1.585	2.534	10.4	20.4	6 30	17 4.46	-26 53.9	0.977	1.960	10.8	17.4
7 10	17 1.23	- 7 53.3	1.653	2.548	13.5	20.6	7 10	16 58.22	-26 45.5	1.009	1.947	16.0	17.6
7 20	16 57.82	- 8 41.4	1.740	2.561	16.3	20.8	7 20	16 55.60	-26 36.8	1.058	1.936	20.6	17.9
<b>297949</b>	2002 <i>FM</i> <sub>26</sub>		6 11.9 97°96	7°2/13.2 17			<b>462446</b>	2008 <i>UR</i> <sub>102</sub>		6 11.9 175°13	1°0/12.1 16		
5 11	17 51.44	-45 0.2	2.414	3.229	12.3	21.2	5 11	17 51.77	-25 34.0	1.544	2.423	14.8	22.4
5 21	17 44.12	-45 53.0	2.357	3.242	10.2	21.1	5 21	17 44.72	-25 38.2	1.477	2.425	10.7	22.1
5 31	17 34.52	-46 30.7	2.323	3.255	8.3	21.0	5 31	17 35.01	-25 37.8	1.433	2.427	6.1	21.9
6 10	17 23.58	-46 49.4	2.314	3.268	7.2	20.9	6 10	17 23.70	-25 31.2	1.414	2.428	1.4	21.6
6 20	17 12.44	-46 47.6	2.331	3.280	7.5	21.0	6 20	17 12.11	-25 18.5	1.421	2.429	4.1	21.8
6 30	17 2.32	-46 26.6	2.373	3.293	8.9	21.1	6 30	17 1.69	-25 1.4	1.455	2.429	8.9	22.0
7 10	16 54.21	-45 50.7	2.440	3.305	10.8	21.2	7 10	16 53.58	-24 43.3	1.512	2.428	13.2	22.3
7 20	16 48.69	-45 5.1	2.528	3.317	12.7	21.4	7 20	16 48.46	-24 27.4	1.589	2.427	16.8	22.5
<b>140797</b>	2001 <i>UE</i> <sub>148</sub>		6 11.9 202°80	0°3/11.9 18			<b>41852</b>	2000 <i>WN</i> <sub>87</sub>		6 11.9 277°40	1°9/11.9 18		
5 11	17 44.77	-22 32.5	2.222	3.096	11.1	20.8	5 11	17 45.22	-15 46.2	2.377	3.244	10.7	18.7
5 21	17 39.03	-22 29.1	2.148	3.095	8.0	20.6	5 21	17 39.43	-16 6.0	2.281	3.222	7.9	18.5
5 31	17 31.57	-22 24.3	2.100	3.094	4.5	20.4	5 31	17 31.89	-16 30.8	2.210	3.200	4.7	18.3
6 10	17 23.10	-22 18.1	2.078	3.092	0.8	20.1	6 10	17 23.19	-17 0.3	2.167	3.178	2.0	18.0
6 20	17 14.44	-22 10.6	2.084	3.091	3.1	20.3	6 20	17 14.09	-17 33.7	2.152	3.155	3.6	18.1
6 30	17 6.47	-22 3.0	2.118	3.089	6.7	20.5	6 30	17 5.42	-18 10.3	2.166	3.133	6.9	18.3
7 10	16 59.97	-21 56.5	2.177	3.088	10.0	20.7	7 10	16 57.99	-18 49.5	2.206	3.110	10.2	18.4
7 20	16 55.45	-21 52.5	2.259	3.086	12.8	20.9	7 20	16 52.39	-19 30.8	2.269	3.087	13.1	18.6
<b>478221</b>	2011 <i>UJ</i> <sub>313</sub>		6 11.9 304°30	4°4/10.7 16									

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>513283</b>	2006 <i>WY</i> <sub>185</sub>		6 11.9 266°47'	1°3'/12.3 18			<b>124515</b>	2001 <i>RJ</i> <sub>69</sub>		6 11.9 201°67'	1°6'/11.6 17		
5 11	17 46.67	-28 29.4	2.359	3.224	10.8	21.7	5 11	17 50.25	-20 40.4	1.644	2.523	14.0	20.3
5 21	17 40.50	-28 11.2	2.262	3.203	8.0	21.5	5 21	17 43.47	-20 14.6	1.572	2.520	10.2	20.0
5 31	17 32.47	-27 46.3	2.191	3.181	4.7	21.2	5 31	17 34.27	-19 47.5	1.522	2.516	5.8	19.8
6 10	17 23.29	-27 14.1	2.147	3.159	1.5	21.0	6 10	17 23.62	-19 20.0	1.498	2.512	1.8	19.5
6 20	17 13.81	-26 35.3	2.131	3.137	3.2	21.0	6 20	17 12.70	-18 53.6	1.502	2.507	4.4	19.7
6 30	17 4.98	-25 52.2	2.144	3.114	6.7	21.2	6 30	17 2.76	-18 30.7	1.531	2.501	8.9	19.9
7 10	16 57.61	-25 7.7	2.183	3.091	10.1	21.4	7 10	16 54.89	-18 13.5	1.584	2.495	13.1	20.1
7 20	16 52.28	-24 25.1	2.245	3.068	13.0	21.6	7 20	16 49.71	-18 3.7	1.658	2.488	16.6	20.4
<b>205504</b>	2001 <i>RS</i> <sub>41</sub>		6 11.9 272°76'	0°3'/11.9 18			<b>99508</b>	2002 <i>EQ</i> <sub>8</sub>		6 11.9 141°89'	0°2'/11.9 18		
5 11	17 45.28	-24 20.3	2.056	2.933	11.7	20.6	5 11	17 51.96	-22 37.4	1.779	2.651	13.5	20.6
5 21	17 39.61	-24 18.5	1.977	2.924	8.5	20.4	5 21	17 44.49	-22 56.7	1.718	2.664	9.7	20.4
5 31	17 32.01	-24 14.0	1.921	2.916	4.8	20.2	5 31	17 34.75	-23 15.0	1.682	2.675	5.4	20.2
6 10	17 23.21	-24 6.2	1.893	2.907	0.9	19.8	6 10	17 23.69	-23 30.7	1.672	2.686	0.9	19.9
6 20	17 14.15	-23 55.3	1.891	2.899	3.3	20.0	6 20	17 12.47	-23 42.9	1.689	2.696	3.7	20.1
6 30	17 5.81	-23 42.7	1.917	2.890	7.2	20.2	6 30	17 2.29	-23 52.0	1.735	2.706	7.9	20.4
7 10	16 59.06	-23 30.1	1.968	2.881	10.7	20.4	7 10	16 54.14	-23 59.5	1.805	2.714	11.8	20.7
7 20	16 54.49	-23 19.5	2.040	2.873	13.8	20.6	7 20	16 48.59	-24 7.2	1.896	2.722	15.0	20.9
<b>429099</b>	2009 <i>SD</i> <sub>36</sub>		6 11.9 323°95'	3°9'/11.2 17			<b>203432</b>	2001 <i>YG</i> <sub>3</sub>		6 11.9 77°35'	2°6'/12.4 18		
5 11	17 44.30	-16 51.5	1.360	2.255	15.4	21.1	5 11	17 57.06	-12 10.2	1.345	2.215	17.1	19.1
5 21	17 39.56	-16 5.5	1.288	2.242	11.4	20.8	5 21	17 48.42	-13 32.6	1.302	2.243	12.5	18.9
5 31	17 32.23	-15 21.5	1.237	2.230	7.0	20.5	5 31	17 37.02	-15 7.6	1.281	2.271	7.4	18.7
6 10	17 23.27	-14 42.6	1.210	2.219	3.9	20.3	6 10	17 24.07	-16 50.2	1.287	2.299	2.9	18.5
6 20	17 13.93	-14 11.9	1.207	2.208	6.1	20.4	6 20	17 11.05	-18 33.9	1.321	2.326	4.9	18.7
6 30	17 5.57	-13 52.4	1.228	2.198	10.6	20.6	6 30	16 59.51	-20 13.6	1.382	2.353	9.6	19.0
7 10	16 59.35	-13 45.5	1.270	2.188	15.0	20.9	7 10	16 50.58	-21 46.0	1.468	2.380	13.8	19.3
7 20	16 55.99	-13 51.1	1.330	2.179	18.9	21.1	7 20	16 44.88	-23 10.4	1.575	2.406	17.3	19.6
<b>205156</b>	1999 <i>XM</i> <sub>199</sub>		6 11.9 129°56'	2°8'/12.3 18			<b>512462</b>	2016 <i>QQ</i> <sub>46</sub>		6 11.9 295°49'	7°6'/10.8 18		
5 11	17 49.15	-30 45.1	2.260	3.121	11.4	20.9	5 11	17 44.05	-4 26.8	1.813	2.671	13.9	20.8
5 21	17 42.21	-31 13.7	2.198	3.133	8.5	20.8	5 21	17 38.93	-3 51.5	1.727	2.648	11.3	20.6
5 31	17 33.36	-31 35.7	2.161	3.146	5.3	20.6	5 31	17 31.76	-3 29.0	1.664	2.625	8.8	20.4
6 10	17 23.43	-31 48.8	2.151	3.157	2.9	20.5	6 10	17 23.24	-3 23.0	1.624	2.603	7.6	20.3
6 20	17 13.36	-31 52.3	2.169	3.169	4.0	20.6	6 20	17 14.27	-3 35.8	1.610	2.580	8.5	20.3
6 30	17 4.14	-31 47.0	2.215	3.180	6.9	20.8	6 30	17 5.89	-4 7.8	1.620	2.557	11.1	20.4
7 10	16 56.61	-31 35.3	2.287	3.190	9.9	21.0	7 10	16 59.04	-4 57.1	1.653	2.534	14.2	20.5
7 20	16 51.29	-31 20.4	2.381	3.200	12.5	21.2	7 20	16 54.40	-6 0.5	1.705	2.512	17.2	20.7
<b>446616</b>	2015 <i>MN</i> <sub>77</sub>		6 11.9 176°17'	6°2'/11.1 18			<b>441818</b>	2009 <i>MW</i> <sub>8</sub>		6 11.9 6°81'	8°8'/16.2 17		
5 11	17 42.47	-1 40.2	2.659	3.491	10.8	21.2	5 11	17 53.43	-48 57.1	1.694	2.512	16.5	19.3
5 21	17 37.07	-1 19.3	2.591	3.492	8.8	21.1	5 21	17 46.01	-48 31.1	1.626	2.514	13.8	19.1
5 31	17 30.38	-1 9.8	2.548	3.493	7.1	21.0	5 31	17 35.63	-47 37.6	1.579	2.516	11.2	19.0
6 10	17 22.95	-1 13.5	2.531	3.494	6.2	20.9	6 10	17 23.81	-46 13.4	1.555	2.519	9.2	18.9
6 20	17 15.39	-1 31.1	2.541	3.494	6.8	20.9	6 20	17 12.26	-44 20.0	1.555	2.524	8.9	18.9
6 30	17 8.36	-2 2.3	2.577	3.494	8.4	21.1	6 30	17 2.57	-42 4.8	1.581	2.529	10.6	19.0
7 10	17 2.42	-2 45.4	2.638	3.494	10.4	21.2	7 10	16 55.79	-39 38.5	1.632	2.535	13.2	19.2
7 20	16 58.00	-3 38.1	2.721	3.494	12.3	21.3	7 20	16 52.34	-37 11.7	1.706	2.542	15.9	19.4
<b>137900</b>	2000 <i>AQ</i> <sub>192</sub>		6 11.9 132°58'	5°7'/11.1 18			<b>480516</b>	2015 <i>MK</i> <sub>6</sub>		6 11.9 273°70'	0°2'/11.9 18		
5 11	17 47.67	-8 52.6	1.871	2.732	13.4	19.7	5 11	17 44.42	-23 59.3	2.218	3.093	11.1	20.6
5 21	17 41.12	-8 11.9	1.815	2.745	10.3	19.5	5 21	17 38.80	-23 37.8	2.143	3.090	8.0	20.4
5 31	17 32.73	-7 40.5	1.784	2.757	7.3	19.4	5 31	17 31.47	-23 13.1	2.094	3.088	4.5	20.1
6 10	17 23.33	-7 21.0	1.778	2.769	5.7	19.3	6 10	17 23.16	-22 45.5	2.071	3.085	0.7	19.9
6 20	17 13.88	-7 14.8	1.799	2.780	6.8	19.4	6 20	17 14.70	-22 16.2	2.076	3.083	3.1	20.0
6 30	17 5.33	-7 22.6	1.846	2.791	9.5	19.6	6 30	17 6.97	-21 47.2	2.109	3.081	6.7	20.3
7 10	16 58.48	-7 43.0	1.917	2.801	12.5	19.8	7 10	17 0.71	-21 20.4	2.167	3.078	10.0	20.5
7 20	16 53.81	-8 14.2	2.009	2.810	15.1	20.0	7 20	16 56.43	-20 57.8	2.247	3.076	12.9	20.7
<b>469520</b>	2003 <i>ST</i> <sub>38</sub>		6 11.9 277°53'	1°6'/12.2 18			<b>506802</b>	2007 <i>GG</i> <sub>35</sub>		6 11.9 354°04'	5°1'/11.9 17		
5 11	17 47.71	-28 11.4	1.971	2.843	12.4	21.3	5 11	17 47.22	-31 9.7	1.344	2.232	16.0	20.6
5 21	17 41.64	-28 8.5	1.875	2.819	9.1	21.0	5 21	17 42.11	-32 21.3	1.280	2.228	12.1	20.3
5 31	17 33.30	-27 59.1	1.803	2.795	5.4	20.8	5 31	17 33.89	-33 26.4	1.237	2.224	8.0	20.1
6 10	17 23.47	-27 41.9	1.757	2.770	1.9	20.5	6 10	17 23.61	-34 18.9	1.218	2.222	5.2	19.9
6 20	17 13.16	-27 16.9	1.739	2.745	3.8	20.5	6 20	17 12.76	-34 54.4	1.222	2.220	6.7	20.0
6 30	17 3.55	-26 45.9	1.748	2.720	7.8	20.7	6 30	17 3.04	-35 12.2	1.249	2.219	10.6	20.2
7 10	16 55.67	-26 12.1	1.781	2.694	11.7	20.9	7 10	16 55.92	-35 15.6	1.299	2.219	14.6	20.4
7 20	16 50.25	-25 39.2	1.836	2.668	15.1	21.1	7 20	16 52.23	-35 9.6	1.366	2.220	18.2	20.7
<b>117678</b>	2005 <i>EX</i> <sub>222</sub>		6 11.9 19°31'	2°1'/12.1 18			<b>63109</b>	2000 <i>WK</i> <sub>154</sub>		6 11.9 245°80'	4°5'/12.7 18		
5 11	17 46.67	-15 18.8	1.697	2.577	13.7	18.5	5 11	17 47.45	-36 41.6	2.406	3.254	11.2	19.3
5 21	17 40.83	-15 59.5	1.632	2.579	10.0	18.3	5 21	17 41.17	-37 8.7	2.325	3.246	8.7	19.1
5 31	17 32.78	-16 47.9	1.590	2.583	5.9	18.0	5 31	17 32.90	-37 25.9	2.269	3.239	6.2	18.9
6 10	17 23.37	-17 42.6	1.574	2.586	2.3	17.8	6 10	17 23.41	-37 30.7	2.238	3.231	4.6	18.8
6 20	17 13.66	-18 41.1	1.585	2.591	4.2	17.9	6 20	17 13.64	-37 21.9	2.236	3.223	5.1	18.8
6 30	17 4.79	-19 41.1	1.623	2.595	8.3	18.2	6 30	17 4.61	-37 0.6	2.260	3.215	7.4	18.9
7 10	16 57.75	-20 41.0	1.685	2.600	12.1	18.4	7 10	16 57.19	-36 29.9	2.309	3.206	10.1	19.1
7 20	16 53.18	-21 39.7	1.768	2.605	15.4	18.7	7 20	16 52.00	-35 53.7	2.381	3.198	12.6	19.3
<b>519594</b>	2012 <i>TR</i> <sub>328</sub>		6 11.9 305°16'	1°3'/12.0 17			<b>448594</b>						

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>471275</b>	2011 <i>FX</i> <sub>30</sub>		6 11.9 36°12	3°1/12.0	16		<b>123204</b>	2000 <i>UX</i> <sub>27</sub>		6 11.9 176°62	2°5/12.4	17	
5 11	17 48.51	-27 33.3	1.244	2.137	16.6	20.4	5 11	17 49.29	-30 28.6	2.152	3.015	11.8	21.1
5 21	17 42.65	-28 27.7	1.205	2.159	12.1	20.2	5 21	17 42.47	-30 42.1	2.080	3.017	8.8	20.9
5 31	17 33.91	-29 16.1	1.188	2.181	7.2	20.0	5 31	17 33.63	-30 48.5	2.032	3.018	5.4	20.7
6 10	17 23.58	-29 54.1	1.194	2.205	3.3	19.8	6 10	17 23.58	-30 46.1	2.011	3.019	2.7	20.5
6 20	17 13.19	-30 19.3	1.224	2.229	5.3	20.0	6 20	17 13.34	-30 34.3	2.018	3.020	3.9	20.6
6 30	17 4.33	-30 32.5	1.278	2.254	9.6	20.3	6 30	17 3.94	-30 14.6	2.052	3.020	7.2	20.8
7 10	16 58.15	-30 36.8	1.354	2.279	13.7	20.6	7 10	16 56.29	-29 49.9	2.112	3.019	10.4	21.0
7 20	16 55.20	-30 36.3	1.449	2.306	17.2	20.9	7 20	16 50.94	-29 23.7	2.194	3.018	13.3	21.2
<b>183516</b>	2003 <i>FJ</i> <sub>78</sub>		6 11.9 333°92	5°8/10.8	18		<b>203313</b>	2001 <i>TM</i> <sub>51</sub>		6 11.9 215°20	2°4/12.1	16	
5 11	17 41.93	-8 57.2	1.906	2.777	12.8	19.3	5 11	17 52.38	-27 42.8	1.631	2.505	14.4	20.8
5 21	17 37.19	-8 13.4	1.835	2.769	9.9	19.1	5 21	17 45.36	-28 16.0	1.555	2.499	10.6	20.5
5 31	17 30.66	-7 38.0	1.787	2.762	7.2	18.9	5 31	17 35.55	-28 44.5	1.501	2.492	6.4	20.3
6 10	17 23.06	-7 14.1	1.765	2.755	5.8	18.8	6 10	17 23.94	-29 5.0	1.474	2.485	2.7	20.0
6 20	17 15.24	-7 3.8	1.767	2.748	6.9	18.8	6 20	17 11.82	-29 15.3	1.473	2.477	4.6	20.1
6 30	17 8.11	-7 8.0	1.795	2.742	9.6	19.0	6 30	17 0.69	-29 16.0	1.498	2.469	9.0	20.3
7 10	17 2.47	-7 26.1	1.846	2.737	12.5	19.2	7 10	16 51.79	-29 10.0	1.547	2.460	13.2	20.6
7 20	16 58.84	-7 56.2	1.918	2.732	15.3	19.3	7 20	16 45.92	-29 1.0	1.616	2.450	16.8	20.8
<b>404738</b>	2014 <i>JD</i> <sub>26</sub>		6 11.9 51°53	1°3/12.1	14	C	<b>24386</b>	McLindon		6 11.9 217°52	4°2/11.1	18	
5 11	17 49.73	-15 44.8	1.920	2.788	12.8	20.7	5 11	17 44.94	-11 34.3	2.182	3.047	11.6	19.3
5 21	17 42.68	-16 51.7	1.870	2.813	9.2	20.5	5 21	17 39.17	-11 4.6	2.106	3.041	8.8	19.1
5 31	17 33.67	-18 4.6	1.845	2.837	5.3	20.3	5 31	17 31.73	-10 40.7	2.055	3.035	6.0	18.9
6 10	17 23.55	-19 20.5	1.848	2.862	1.5	20.1	6 10	17 23.28	-10 24.6	2.030	3.028	4.3	18.8
6 20	17 13.32	-20 36.1	1.881	2.887	3.5	20.3	6 20	17 14.61	-10 17.6	2.033	3.022	5.4	18.9
6 30	17 4.00	-21 48.7	1.942	2.912	7.3	20.6	6 30	17 6.59	-10 20.5	2.062	3.014	8.2	19.0
7 10	16 56.43	-22 56.8	2.029	2.937	10.7	20.9	7 10	16 59.94	-10 33.1	2.117	3.007	11.2	19.2
7 20	16 51.16	-24 0.1	2.138	2.962	13.6	21.1	7 20	16 55.20	-10 54.6	2.192	2.999	13.8	19.4
<b>121607</b>	1999 <i>VG</i> <sub>142</sub>		6 11.9 13°47	0°2/11.9	18		<b>146914</b>	2002 <i>CB</i> <sub>199</sub>		6 11.9 276°02	1°1/11.8	18	
5 11	17 43.57	-23 44.4	1.909	2.791	12.2	19.0	5 11	17 43.87	-19 48.6	2.241	3.116	10.9	20.2
5 21	17 38.42	-23 43.2	1.843	2.794	8.8	18.8	5 21	17 38.46	-19 46.0	2.162	3.109	7.9	20.0
5 31	17 31.35	-23 39.8	1.802	2.797	4.9	18.5	5 31	17 31.36	-19 44.3	2.108	3.102	4.5	19.8
6 10	17 23.18	-23 34.0	1.786	2.801	0.8	18.2	6 10	17 23.22	-19 43.5	2.081	3.095	1.3	19.5
6 20	17 14.83	-23 25.9	1.797	2.805	3.3	18.4	6 20	17 14.84	-19 43.8	2.082	3.087	3.3	19.7
6 30	17 7.32	-23 16.9	1.834	2.809	7.3	18.7	6 30	17 7.09	-19 46.0	2.110	3.080	6.8	19.9
7 10	17 1.47	-23 8.6	1.896	2.814	10.8	18.9	7 10	17 0.71	-19 50.6	2.163	3.073	10.1	20.1
7 20	16 57.82	-23 2.5	1.979	2.819	13.9	19.1	7 20	16 56.25	-19 58.5	2.239	3.066	12.9	20.2
<b>321071</b>	2008 <i>SN</i> <sub>61</sub>		6 11.9 256°78	1°3/11.8	16		<b>443372</b>	2014 <i>HV</i> <sub>1</sub>		6 11.9 90°50	2°9/12.1	17	
5 11	17 50.10	-21 15.8	1.396	2.283	15.5	21.8	5 11	17 47.84	-29 52.7	2.185	3.050	11.6	20.8
5 21	17 43.92	-20 58.9	1.316	2.269	11.4	21.5	5 21	17 41.43	-30 38.3	2.122	3.060	8.6	20.7
5 31	17 34.82	-20 40.5	1.258	2.254	6.5	21.2	5 31	17 33.06	-31 18.5	2.084	3.069	5.4	20.5
6 10	17 23.80	-20 21.0	1.224	2.239	1.6	20.8	6 10	17 23.50	-31 50.7	2.072	3.079	3.0	20.3
6 20	17 12.21	-20 1.4	1.216	2.223	4.8	21.0	6 20	17 13.72	-32 13.1	2.088	3.088	4.1	20.4
6 30	17 1.61	-19 44.0	1.232	2.207	10.1	21.2	6 30	17 4.73	-32 25.8	2.132	3.097	7.1	20.6
7 10	16 53.35	-19 31.6	1.271	2.190	14.9	21.5	7 10	16 57.41	-32 30.7	2.201	3.106	10.2	20.8
7 20	16 48.24	-19 26.2	1.328	2.174	19.1	21.7	7 20	16 52.32	-32 30.5	2.293	3.115	12.8	21.0
<b>309182</b>	2007 <i>CL</i> <sub>20</sub>		6 11.9 198°89	1°8/12.4	18		<b>345908</b>	2007 <i>RZ</i> <sub>148</sub>		6 11.9 236°02	3°8/11.0	17	
5 11	17 45.36	-29 49.5	2.484	3.348	10.4	20.7	5 11	17 44.78	-13 2.0	2.271	3.137	11.2	21.4
5 21	17 39.39	-29 42.1	2.408	3.346	7.6	20.5	5 21	17 39.04	-12 24.3	2.189	3.126	8.4	21.2
5 31	17 31.79	-29 28.1	2.356	3.345	4.6	20.3	5 31	17 31.66	-11 50.7	2.132	3.115	5.6	21.0
6 10	17 23.25	-29 7.1	2.333	3.343	2.0	20.1	6 10	17 23.27	-11 23.1	2.102	3.103	3.9	20.8
6 20	17 14.58	-28 39.4	2.337	3.342	3.2	20.2	6 20	17 14.65	-11 3.2	2.100	3.090	5.1	20.9
6 30	17 6.62	-28 7.0	2.370	3.340	6.2	20.4	6 30	17 6.62	-10 52.4	2.125	3.078	7.9	21.0
7 10	17 0.08	-27 32.2	2.429	3.338	9.2	20.6	7 10	16 59.92	-10 51.1	2.175	3.065	10.9	21.2
7 20	16 55.46	-26 57.9	2.511	3.335	11.8	20.7	7 20	16 55.07	-10 59.1	2.246	3.051	13.6	21.4
<b>176827</b>	2002 <i>TZ</i> <sub>154</sub>		6 11.9 267°94	1°5/11.6	16		<b>183870</b>	2004 <i>CQ</i> <sub>36</sub>		6 11.9 154°33	0°8/12.1	17	R
5 11	17 45.22	-20 30.7	1.981	2.859	12.0	20.3	5 11	17 50.05	-25 10.0	1.841	2.714	13.0	20.9
5 21	17 39.58	-20 1.3	1.903	2.851	8.7	20.1	5 21	17 43.15	-25 17.4	1.775	2.721	9.4	20.6
5 31	17 32.01	-19 30.7	1.849	2.843	5.0	19.8	5 31	17 34.05	-25 21.2	1.733	2.727	5.4	20.4
6 10	17 23.30	-19 0.1	1.821	2.834	1.7	19.6	6 10	17 23.67	-25 20.2	1.718	2.732	1.2	20.1
6 20	17 14.36	-18 31.1	1.821	2.825	3.8	19.7	6 20	17 13.10	-25 14.3	1.730	2.737	3.6	20.3
6 30	17 6.16	-18 5.5	1.847	2.817	7.7	19.9	6 30	17 3.50	-25 4.6	1.769	2.742	7.7	20.6
7 10	16 59.57	-17 45.5	1.898	2.808	11.3	20.1	7 10	16 55.85	-24 53.7	1.833	2.746	11.5	20.8
7 20	16 55.13	-17 32.2	1.971	2.799	14.4	20.3	7 20	16 50.71	-24 43.8	1.919	2.749	14.7	21.0
<b>249352</b>	2008 <i>XS</i> <sub>3</sub>		6 11.9 163°61	1°0/12.2	18		<b>130083</b>	1999 <i>WV</i> <sub>14</sub>		6 11.9 325°54	1°4/11.7	18	
5 11	17 47.40	-27 15.4	2.268	3.135	11.1	20.9	5 11	17 45.80	-20 46.5	1.837	2.718	12.7	19.5
5 21	17 40.91	-27 2.2	2.197	3.139	8.1	20.7	5 21	17 40.05	-20 19.5	1.768	2.718	9.2	19.3
5 31	17 32.65	-26 43.5	2.151	3.143	4.6	20.5	5 31	17 32.29	-19 51.4	1.723	2.717	5.2	19.1
6 10	17 23.40	-26 19.1	2.132	3.146	1.3	20.2	6 10	17 23.38	-19 23.5	1.704	2.717	1.6	18.8
6 20	17 14.05	-25 49.8	2.142	3.149	3.1	20.4	6 20	17 14.28	-18 57.1	1.711	2.717	3.9	19.0
6 30	17 5.51	-25 17.6	2.180	3.151	6.6	20.6	6 30	17 6.06	-18 34.2	1.745	2.717	7.9	19.2
7 10	16 58.54	-24 45.1	2.244	3.153	9.8	20.8	7 10	16 59.59	-18 16.8	1.804	2.716	11.6	19.5
7 20	16 53.64	-24 14.8	2.331	3.155	12.6	21.0	7 20	16 55.40	-18 6.1	1.883	2.716	14.8	19.7
<b>225938</b>	2002 <i>AV</i> <sub>184</sub>		6 11.9 242°21	2°6/11.9	18		<b>182135</b>	2000 <i>SP</i>					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>393207</b>	2013 CG <sub>211</sub>		6 11.9 53°73	0°8/11.8 16			<b>56786</b>	2000 OX <sub>53</sub>		6 11.9 15°91	7°5/13.9 18		
5 11	17 44.23	-20 40.6	2.142	3.019	11.3	21.2	5 11	17 51.89	-41 41.2	1.556	2.407	16.1	18.8
5 21	17 38.72	-20 41.5	2.075	3.023	8.1	21.0	5 21	17 45.21	-41 57.7	1.491	2.408	13.0	18.6
5 31	17 31.48	-20 42.7	2.032	3.026	4.6	20.7	5 31	17 35.45	-41 54.2	1.448	2.410	9.8	18.5
6 10	17 23.24	-20 44.1	2.016	3.030	1.1	20.5	6 10	17 23.93	-41 26.4	1.427	2.412	7.7	18.3
6 20	17 14.84	-20 45.9	2.027	3.034	3.2	20.7	6 20	17 12.25	-40 33.8	1.431	2.414	8.0	18.4
6 30	17 7.17	-20 48.7	2.066	3.038	6.8	20.9	6 30	17 2.10	-39 20.8	1.459	2.416	10.5	18.5
7 10	17 0.97	-20 53.2	2.130	3.041	10.1	21.1	7 10	16 54.72	-37 55.4	1.510	2.418	13.7	18.7
7 20	16 56.76	-21 0.2	2.215	3.045	13.0	21.3	7 20	16 50.74	-36 26.2	1.582	2.421	16.8	18.9
<b>270278</b>	2001 VP <sub>5</sub>		6 11.9 187°43	2°5/12.5 17			<b>501935</b>	2014 XO <sub>6</sub>		6 11.9 318°33	4°0/11.9 17		
5 11	17 50.14	-31 2.9	2.278	3.136	11.4	21.2	5 11	17 44.40	-14 38.0	1.006	1.914	18.3	21.0
5 21	17 43.00	-31 9.2	2.201	3.135	8.5	21.0	5 21	17 40.99	-14 49.1	0.913	1.873	14.0	20.6
5 31	17 33.90	-31 7.9	2.149	3.134	5.3	20.8	5 31	17 33.90	-15 13.9	0.837	1.833	8.8	20.1
6 10	17 23.65	-30 57.3	2.124	3.133	2.7	20.6	6 10	17 23.82	-15 54.7	0.782	1.794	4.2	19.7
6 20	17 13.20	-30 37.4	2.128	3.130	3.8	20.7	6 20	17 12.11	-16 51.3	0.748	1.755	6.9	19.7
6 30	17 3.57	-30 9.8	2.160	3.127	7.0	20.9	6 30	17 0.79	-18 2.1	0.735	1.717	13.4	19.9
7 10	16 55.63	-29 37.5	2.218	3.123	10.1	21.1	7 10	16 51.96	-19 23.7	0.739	1.681	19.8	20.1
7 20	16 49.92	-29 4.1	2.299	3.118	12.9	21.2	7 20	16 47.17	-20 52.7	0.759	1.646	25.6	20.3
<b>134216</b>	2005 UO <sub>160</sub>		6 11.9 155°16	2°9/11.7 18			<b>316516</b>	2010 VL <sub>164</sub>		6 11.9 240°57	2°1/11.1 18		
5 11	17 47.30	-15 4.7	1.934	2.805	12.6	20.8	5 11	17 43.55	-18 21.5	2.688	3.556	9.6	20.8
5 21	17 41.00	-14 57.9	1.868	2.810	9.2	20.6	5 21	17 37.93	-17 31.6	2.606	3.548	7.0	20.6
5 31	17 32.79	-14 56.0	1.826	2.815	5.7	20.4	5 31	17 30.95	-16 41.1	2.550	3.539	4.2	20.5
6 10	17 23.47	-14 59.5	1.811	2.819	3.0	20.2	6 10	17 23.18	-15 51.7	2.522	3.531	2.2	20.3
6 20	17 13.96	-15 8.6	1.823	2.823	4.6	20.4	6 20	17 15.28	-15 5.4	2.523	3.522	3.6	20.4
6 30	17 5.28	-15 23.7	1.862	2.827	8.0	20.6	6 30	17 7.94	-14 24.4	2.553	3.513	6.4	20.6
7 10	16 58.24	-15 44.4	1.926	2.830	11.4	20.8	7 10	17 1.77	-13 50.2	2.609	3.503	9.2	20.7
7 20	16 53.40	-16 10.4	2.012	2.833	14.4	21.0	7 20	16 57.19	-13 23.9	2.688	3.494	11.6	20.9
<b>504787</b>	2010 AH <sub>25</sub>		6 11.9 155°74	0°8/11.8 17			<b>134206</b>	2005 ER <sub>214</sub>		6 11.9 185°86	5°5/11.2 18		
5 11	17 47.23	-20 44.1	2.214	3.085	11.3	22.4	5 11	17 44.63	- 8 11.7	2.014	2.876	12.6	20.0
5 21	17 40.79	-20 43.0	2.147	3.091	8.1	22.2	5 21	17 39.03	- 7 43.6	1.947	2.876	9.8	19.8
5 31	17 32.61	-20 41.9	2.104	3.097	4.6	22.0	5 31	17 31.68	- 7 24.9	1.903	2.875	7.0	19.6
6 10	17 23.43	-20 40.5	2.089	3.103	1.1	21.7	6 10	17 23.31	- 7 17.8	1.885	2.875	5.5	19.5
6 20	17 14.11	-20 39.2	2.102	3.108	3.2	21.9	6 20	17 14.77	- 7 23.5	1.894	2.875	6.5	19.6
6 30	17 5.55	-20 38.6	2.144	3.113	6.8	22.1	6 30	17 6.92	- 7 42.1	1.928	2.874	9.1	19.7
7 10	16 58.50	-20 39.7	2.211	3.117	10.1	22.3	7 10	17 0.56	- 8 12.5	1.986	2.873	11.9	19.9
7 20	16 53.46	-20 43.5	2.300	3.121	12.8	22.5	7 20	16 56.19	- 8 52.5	2.066	2.872	14.6	20.1
<b>473137</b>	2015 KK <sub>3</sub>		6 11.9 154°15	1°4/12.1 17			<b>50691</b>	2000 ET <sub>122</sub>		6 11.9 254°13	0°6/11.9 18		
5 11	17 47.23	-26 41.8	2.034	2.907	12.0	21.2	5 11	17 46.05	-22 0.5	2.181	3.054	11.3	20.5
5 21	17 41.04	-26 56.8	1.965	2.909	8.7	21.0	5 21	17 40.16	-21 52.1	2.093	3.039	8.2	20.3
5 31	17 32.86	-27 7.9	1.919	2.911	5.1	20.8	5 31	17 32.40	-21 42.3	2.029	3.023	4.6	20.0
6 10	17 23.49	-27 13.4	1.901	2.914	1.7	20.5	6 10	17 23.45	-21 31.2	1.993	3.007	0.9	19.7
6 20	17 13.90	-27 13.0	1.910	2.916	3.5	20.7	6 20	17 14.19	-21 19.2	1.985	2.991	3.3	19.9
6 30	17 5.14	-27 7.4	1.946	2.918	7.2	20.9	6 30	17 5.54	-21 7.5	2.004	2.975	7.1	20.1
7 10	16 58.08	-26 58.8	2.007	2.919	10.6	21.1	7 10	16 58.37	-20 57.6	2.049	2.958	10.6	20.3
7 20	16 53.30	-26 49.6	2.090	2.921	13.6	21.3	7 20	16 53.25	-20 51.0	2.116	2.941	13.6	20.5
<b>342464</b>	2008 UY <sub>122</sub>		6 11.9 301°45	2°8/12.4 18			<b>99677</b>	2002 JC <sub>15</sub>		6 11.9 240°37	1°0/12.0 18		
5 11	17 47.62	-29 54.0	1.626	2.506	14.1	20.6	5 11	17 47.62	-24 33.8	1.864	2.741	12.7	19.4
5 21	17 42.15	-30 3.9	1.531	2.477	10.6	20.3	5 21	17 41.55	-24 58.3	1.791	2.738	9.2	19.2
5 31	17 33.89	-30 5.9	1.457	2.448	6.6	20.0	5 31	17 33.27	-25 21.1	1.741	2.735	5.3	18.9
6 10	17 23.71	-29 57.4	1.408	2.419	3.1	19.7	6 10	17 23.61	-25 40.3	1.717	2.731	1.3	18.6
6 20	17 12.83	-29 37.3	1.385	2.390	4.8	19.7	6 20	17 13.62	-25 54.7	1.721	2.728	3.6	18.8
6 30	17 2.71	-29 7.2	1.387	2.361	9.2	19.9	6 30	17 4.44	-26 4.5	1.751	2.724	7.7	19.0
7 10	16 54.68	-28 31.1	1.412	2.332	13.7	20.1	7 10	16 57.07	-26 11.2	1.806	2.720	11.5	19.3
7 20	16 49.62	-27 54.0	1.457	2.304	17.6	20.3	7 20	16 52.14	-26 16.7	1.882	2.716	14.7	19.5
<b>103417</b>	2000 AL <sub>150</sub>		6 11.9 195°18	1°3/11.6 18			<b>384039</b>	2008 UE <sub>178</sub>		6 11.9 296°13	1°3/11.7 17		
5 11	17 46.09	-20 37.5	2.270	3.141	11.0	20.1	5 11	17 45.92	-21 13.1	1.768	2.651	13.0	20.9
5 21	17 39.96	-20 9.2	2.194	3.139	7.9	19.9	5 21	17 40.27	-20 46.1	1.696	2.647	9.4	20.7
5 31	17 32.15	-19 39.8	2.144	3.137	4.5	19.6	5 31	17 32.50	-20 17.6	1.648	2.643	5.4	20.4
6 10	17 23.37	-19 10.1	2.121	3.134	1.4	19.4	6 10	17 23.47	-19 48.6	1.625	2.639	1.5	20.2
6 20	17 14.43	-18 41.6	2.126	3.131	3.4	19.5	6 20	17 14.23	-19 20.7	1.629	2.635	4.0	20.3
6 30	17 6.20	-18 16.0	2.160	3.127	6.9	19.8	6 30	17 5.86	-18 56.0	1.659	2.631	8.2	20.6
7 10	16 59.42	-17 55.1	2.219	3.123	10.1	20.0	7 10	16 59.30	-18 36.7	1.713	2.628	12.0	20.8
7 20	16 54.58	-17 39.9	2.301	3.119	12.9	20.1	7 20	16 55.12	-18 24.1	1.788	2.624	15.3	21.0
<b>5136</b>	Baggaley		6 11.9 232°69	2°4/11.7 18			<b>201692</b>	2003 UC <sub>121</sub>		6 11.9 161°86	0°6/11.9 18		
5 11	17 44.38	-14 54.8	2.406	3.273	10.6	17.2	5 11	17 46.50	-21 34.4	2.158	3.030	11.4	20.6
5 21	17 38.72	-14 57.7	2.326	3.266	7.8	17.0	5 21	17 40.36	-21 33.7	2.088	3.034	8.2	20.4
5 31	17 31.48	-15 5.0	2.270	3.259	4.8	16.8	5 31	17 32.43	-21 32.4	2.043	3.037	4.6	20.2
6 10	17 23.26	-15 16.9	2.243	3.251	2.5	16.6	6 10	17 23.46	-21 30.3	2.026	3.040	0.9	19.9
6 20	17 14.81	-15 33.6	2.243	3.243	3.8	16.7	6 20	17 14.32	-21 27.6	2.036	3.043	3.2	20.1
6 30	17 6.90	-15 54.8	2.271	3.235	6.8	16.8	6 30	17 5.92	-21 25.0	2.074	3.045	6.9	20.3
7 10	17 0.24	-16 20.3	2.326	3.227	9.9	17.0	7 10	16 59.06	-21 23.9	2.137	3.047	10.2	20.5
7 20	16 55.36	-16 49.7	2.403	3.218	12.5	17.2	7 20	16 54.26	-21 25.2	2.223	3.048	13.1	20.7
<b>321184</b>	2008 WM <sub>114</sub>		6 11.9 188°54	0°4/12.0 18 R			<b>203970</b>	2003 SG <sub>165</sub>		6 11.9 265°87	4°6/11.1 18		
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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>466710</b>	2014 <i>WJ</i> <sub>459</sub>		6 11.9	1°98	0°6/11.9	17	<b>212520</b>	2006 <i>RD</i> <sub>43</sub>		6 11.9	332°27	0°9/12.1	18
5 11	17 46.93	-23 43.2	1.251	2.148	16.2	20.3	5 11	17 45.28	-25 25.0	1.887	2.767	12.5	20.6
5 21	17 41.64	-23 15.2	1.190	2.147	11.8	20.1	5 21	17 39.83	-25 32.2	1.814	2.762	9.0	20.4
5 31	17 33.50	-22 42.6	1.149	2.147	6.6	19.8	5 31	17 32.29	-25 36.1	1.764	2.758	5.2	20.2
6 10	17 23.67	-22 6.3	1.132	2.147	1.2	19.4	6 10	17 23.49	-25 35.7	1.740	2.754	1.3	19.9
6 20	17 13.59	-21 28.6	1.139	2.147	4.6	19.6	6 20	17 14.42	-25 30.9	1.743	2.751	3.5	20.0
6 30	17 4.80	-20 53.2	1.170	2.149	9.9	19.9	6 30	17 6.16	-25 22.6	1.772	2.747	7.5	20.3
7 10	16 58.51	-20 23.7	1.222	2.150	14.7	20.2	7 10	16 59.63	-25 13.0	1.826	2.744	11.2	20.5
7 20	16 55.37	-20 2.6	1.292	2.153	18.7	20.5	7 20	16 55.44	-25 4.1	1.901	2.741	14.4	20.7
<b>224453</b>	2005 <i>VY</i> <sub>24</sub>		6 11.9	170°20	2°1/11.4	18	<b>209121</b>	2003 <i>SS</i> <sub>179</sub>		6 11.9	339°70	2°9/12.2	17
5 11	17 47.75	-19 29.0	2.058	2.930	11.9	20.0	5 11	17 41.72	-27 27.0	0.962	1.877	18.3	19.3
5 21	17 41.22	-18 44.7	1.989	2.933	8.6	19.8	5 21	17 38.89	-27 51.1	0.894	1.859	13.6	19.0
5 31	17 32.89	-17 59.5	1.944	2.936	5.0	19.6	5 31	17 32.47	-28 9.2	0.844	1.843	8.2	18.6
6 10	17 23.54	-17 15.2	1.927	2.938	2.1	19.4	6 10	17 23.58	-28 18.0	0.815	1.828	3.2	18.3
6 20	17 14.09	-16 33.9	1.938	2.940	4.1	19.5	6 20	17 13.92	-28 15.5	0.806	1.814	5.8	18.4
6 30	17 5.48	-15 58.2	1.977	2.941	7.6	19.8	6 30	17 5.53	-28 3.1	0.817	1.803	11.7	18.7
7 10	16 58.49	-15 30.0	2.041	2.942	11.0	20.0	7 10	17 0.16	-27 45.2	0.846	1.793	17.3	18.9
7 20	16 53.62	-15 10.2	2.126	2.942	13.9	20.2	7 20	16 58.77	-27 26.4	0.891	1.786	22.1	19.2
<b>2923</b>	Schuyler		6 11.9	82°44	2°0/12.3	18	<b>251323</b>	2007 <i>BS</i> <sub>68</sub>		6 11.9	265°34	9°4/ 9.8	18
5 11	17 50.34	-27 54.5	1.531	2.411	14.8	17.4	5 11	17 42.76	+ 7 39.3	2.572	3.362	12.3	20.6
5 21	17 43.65	-28 5.2	1.478	2.426	10.8	17.2	5 21	17 37.50	+ 8 22.7	2.493	3.344	10.9	20.5
5 31	17 34.43	-28 9.3	1.448	2.440	6.3	16.9	5 31	17 30.81	+ 8 49.7	2.436	3.325	9.8	20.4
6 10	17 23.80	-28 4.9	1.442	2.455	2.3	16.7	6 10	17 23.24	+ 8 57.1	2.402	3.307	9.4	20.3
6 20	17 13.11	-27 51.9	1.463	2.469	4.3	16.9	6 20	17 15.42	+ 8 42.9	2.393	3.288	9.8	20.3
6 30	17 3.70	-27 32.5	1.509	2.483	8.6	17.2	6 30	17 8.05	+ 8 7.1	2.407	3.268	11.1	20.4
7 10	16 56.62	-27 10.4	1.578	2.498	12.6	17.4	7 10	17 1.78	+ 7 11.7	2.444	3.249	12.7	20.4
7 20	16 52.43	-26 49.1	1.668	2.512	15.9	17.7	7 20	16 57.09	+ 6 0.3	2.501	3.229	14.3	20.5
<b>142151</b>	2002 <i>RN</i> <sub>24</sub>		6 11.9	281°35	3°9/11.3	18	<b>380478</b>	2003 <i>YU</i> <sub>86</sub>		6 11.9	127°49	2°7/11.8	17
5 11	17 47.02	-15 19.0	1.577	2.459	14.3	20.7	5 11	17 46.40	-13 36.0	2.494	3.354	10.5	21.5
5 21	17 41.47	-14 48.3	1.490	2.437	10.7	20.4	5 21	17 39.98	-13 41.3	2.434	3.370	7.7	21.3
5 31	17 33.42	-14 21.4	1.425	2.415	6.8	20.1	5 31	17 32.11	-13 51.5	2.400	3.385	4.8	21.2
6 10	17 23.68	-14 0.4	1.384	2.392	3.9	19.9	6 10	17 23.44	-14 6.8	2.394	3.400	2.7	21.0
6 20	17 13.38	-13 47.4	1.369	2.369	5.9	19.9	6 20	17 14.70	-14 26.9	2.417	3.415	3.9	21.1
6 30	17 3.81	-13 44.0	1.380	2.345	10.1	20.1	6 30	17 6.62	-14 51.5	2.468	3.428	6.6	21.3
7 10	16 56.12	-13 51.2	1.412	2.322	14.4	20.3	7 10	16 59.84	-15 20.1	2.546	3.442	9.3	21.5
7 20	16 51.11	-14 8.8	1.464	2.299	18.2	20.5	7 20	16 54.79	-15 52.1	2.647	3.454	11.7	21.7
<b>499682</b>	2010 <i>VO</i> <sub>214</sub>		6 11.9	168°71	0°0/11.9	17	<b>102689</b>	1999 <i>VA</i> <sub>73</sub>		6 11.9	291°40	1°5/12.1	18
5 11	17 49.74	-23 40.4	1.964	2.835	12.4	22.4	5 11	17 48.57	-25 49.6	1.452	2.339	15.1	19.9
5 21	17 42.83	-23 34.1	1.894	2.839	9.0	22.2	5 21	17 43.01	-26 8.2	1.366	2.318	11.1	19.6
5 31	17 33.87	-23 25.1	1.850	2.843	5.0	21.9	5 31	17 34.49	-26 23.6	1.301	2.296	6.5	19.3
6 10	17 23.73	-23 13.0	1.832	2.846	0.8	21.6	6 10	17 23.92	-26 33.3	1.260	2.274	1.9	18.9
6 20	17 13.41	-22 58.1	1.842	2.849	3.4	21.8	6 20	17 12.60	-26 35.8	1.245	2.252	4.5	19.0
6 30	17 3.99	-22 42.0	1.879	2.851	7.4	22.1	6 30	17 2.12	-26 31.8	1.254	2.230	9.7	19.3
7 10	16 56.36	-22 26.8	1.942	2.852	11.1	22.3	7 10	16 53.89	-26 24.0	1.285	2.208	14.5	19.5
7 20	16 51.09	-22 14.7	2.027	2.852	14.2	22.5	7 20	16 48.86	-26 15.8	1.335	2.187	18.7	19.7
<b>508458</b>	2016 <i>NN</i> <sub>17</sub>		6 11.9	333°36	13°3/ 7.0	18	<b>200600</b>	2001 <i>RX</i> <sub>98</sub>		6 11.9	254°79	1°0/11.9	17
5 11	17 40.74	- 0 37.9	1.249	2.122	18.0	18.9	5 11	17 49.68	-21 25.9	1.420	2.307	15.3	20.4
5 21	17 37.13	+ 1 33.6	1.184	2.103	15.5	18.7	5 21	17 43.59	-21 18.7	1.344	2.296	11.2	20.1
5 31	17 31.01	+ 3 29.2	1.140	2.085	13.7	18.6	5 31	17 34.68	-21 10.9	1.290	2.285	6.4	19.8
6 10	17 23.29	+ 4 58.2	1.116	2.068	13.4	18.5	6 10	17 23.93	-21 2.2	1.260	2.274	1.4	19.5
6 20	17 15.12	+ 5 52.5	1.112	2.052	14.7	18.5	6 20	17 12.67	-20 52.9	1.255	2.262	4.5	19.7
6 30	17 7.84	+ 6 8.4	1.128	2.038	17.2	18.6	6 30	17 2.42	-20 44.8	1.275	2.251	9.7	19.9
7 10	17 2.60	+ 5 47.7	1.161	2.024	20.2	18.8	7 10	16 54.46	-20 40.1	1.318	2.239	14.4	20.2
7 20	17 0.15	+ 4 56.0	1.208	2.012	23.0	18.9	7 20	16 49.57	-20 40.4	1.380	2.226	18.5	20.4
<b>361021</b>	2005 <i>WV</i> <sub>42</sub>		6 11.9	78°20	0°1/11.9	17	<b>324972</b>	2008 <i>AJ</i> <sub>32</sub>		6 11.9	119°56	0°1/11.9	17
5 11	17 50.06	-24 25.1	1.263	2.156	16.5	21.4	5 11	17 50.34	-22 53.1	1.678	2.556	13.8	21.2
5 21	17 43.86	-24 7.4	1.205	2.160	11.9	21.1	5 21	17 43.47	-23 3.0	1.621	2.569	10.0	20.9
5 31	17 34.74	-23 44.9	1.167	2.164	6.7	20.8	5 31	17 34.31	-23 11.5	1.586	2.581	5.6	20.7
6 10	17 23.89	-23 17.5	1.153	2.168	1.1	20.5	6 10	17 23.83	-23 17.5	1.577	2.592	0.9	20.4
6 20	17 12.84	-22 46.9	1.164	2.172	4.5	20.7	6 20	17 13.22	-23 20.4	1.596	2.603	3.7	20.6
6 30	17 3.18	-22 16.1	1.198	2.176	9.9	21.0	6 30	17 3.69	-23 21.3	1.641	2.614	8.1	20.9
7 10	16 56.14	-21 49.3	1.255	2.181	14.6	21.3	7 10	16 56.23	-23 21.9	1.710	2.624	12.0	21.2
7 20	16 52.36	-21 29.0	1.330	2.185	18.6	21.6	7 20	16 51.42	-23 24.0	1.800	2.634	15.3	21.4
<b>345887</b>	2007 <i>RD</i> <sub>65</sub>		6 11.9	266°95	1°5/12.2	18	<b>394026</b>	2005 <i>WZ</i> <sub>12</sub>		6 11.9	296°86	0°2/12.0	18
5 11	17 47.46	-27 26.3	2.088	2.959	11.8	21.7	5 11	17 44.46	-23 38.2	2.120	2.997	11.4	20.9
5 21	17 41.40	-27 32.2	1.996	2.939	8.7	21.4	5 21	17 39.16	-23 41.4	2.030	2.977	8.3	20.7
5 31	17 33.21	-27 33.2	1.928	2.919	5.1	21.2	5 31	17 31.92	-23 42.8	1.964	2.958	4.7	20.4
6 10	17 23.65	-27 28.0	1.886	2.899	1.8	20.9	6 10	17 23.45	-23 41.8	1.925	2.939	0.8	20.1
6 20	17 13.67	-27 16.0	1.872	2.879	3.5	21.0	6 20	17 14.61	-23 38.4	1.913	2.920	3.2	20.3
6 30	17 4.34	-26 58.6	1.886	2.858	7.4	21.2	6 30	17 6.36	-23 33.3	1.928	2.902	7.1	20.5
7 10	16 56.63	-26 38.2	1.925	2.836	11.0	21.4	7 10	16 59.59	-23 28.1	1.968	2.883	10.7	20.6
7 20	16 51.22	-26 17.6	1.985	2.815	14.3	21.5	7 20	16 54.91	-23 24.3	2.030	2.864	13.8	20.8
<b>393932</b>	2005 <i>UM</i> <sub>119</sub>		6 11.9	69°22	3°7/12.4	16	<b>3</b>						

EPHEMERIDES

6 11.9

6 12.0

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>24271</b>	1999 XR <sub>159</sub>		6 11.9 246°79	1°9/11.8 18			<b>306863</b>	2001 SB <sub>241</sub>		6 11.9 206°66	0°1/12.0 17		
5 11	17 45.99	-17 46.2	2.053	2.927	11.9	18.4	5 11	17 48.44	-23 15.9	1.932	2.806	12.5	21.8
5 21	17 40.17	-17 43.4	1.972	2.917	8.7	18.2	5 21	17 42.05	-23 18.3	1.856	2.803	9.0	21.6
5 31	17 32.45	-17 43.1	1.915	2.907	5.1	18.0	5 31	17 33.56	-23 18.9	1.804	2.799	5.1	21.3
6 10	17 23.54	-17 45.7	1.885	2.897	2.0	17.7	6 10	17 23.77	-23 16.8	1.779	2.794	0.9	21.0
6 20	17 14.32	-17 51.3	1.882	2.886	3.9	17.8	6 20	17 13.69	-23 12.2	1.782	2.789	3.4	21.2
6 30	17 5.74	-18 0.3	1.907	2.875	7.6	18.0	6 30	17 4.43	-23 5.9	1.811	2.784	7.6	21.5
7 10	16 58.68	-18 13.2	1.956	2.864	11.1	18.2	7 10	16 56.91	-22 59.7	1.866	2.778	11.3	21.7
7 20	16 53.73	-18 30.3	2.027	2.853	14.2	18.4	7 20	16 51.75	-22 55.6	1.942	2.772	14.5	21.9
<b>185409</b>	2006 WY <sub>140</sub>		6 11.9 347°86	0°7/12.1 18			<b>426298</b>	2012 TH <sub>119</sub>		6 11.9 335°69	2°9/11.3 17		
5 11	17 45.18	-25 7.3	2.070	2.947	11.7	20.5	5 11	17 43.88	-19 29.9	1.451	2.345	14.6	19.9
5 21	17 39.58	-25 13.4	1.999	2.946	8.4	20.3	5 21	17 39.20	-18 35.5	1.379	2.334	10.7	19.6
5 31	17 32.09	-25 16.5	1.951	2.945	4.8	20.1	5 31	17 32.11	-17 39.4	1.329	2.324	6.4	19.3
6 10	17 23.49	-25 15.8	1.930	2.944	1.1	19.8	6 10	17 23.53	-16 44.7	1.303	2.314	2.9	19.1
6 20	17 14.67	-25 11.3	1.936	2.944	3.2	20.0	6 20	17 14.65	-15 55.0	1.302	2.305	5.3	19.2
6 30	17 6.60	-25 3.9	1.970	2.943	7.0	20.2	6 30	17 6.74	-15 14.1	1.325	2.297	9.8	19.5
7 10	17 0.13	-24 55.4	2.028	2.943	10.4	20.4	7 10	17 0.86	-14 44.7	1.371	2.290	14.1	19.7
7 20	16 55.80	-24 47.7	2.108	2.942	13.4	20.6	7 20	16 57.68	-14 27.8	1.435	2.283	17.8	19.9
<b>504779</b>	2009 YB <sub>2</sub>		6 11.9 200°72	2°6/11.8 18			<b>476165</b>	2007 TX <sub>384</sub>		6 11.9 312°15	5°7/10.9 16		
5 11	17 47.35	-14 27.5	2.325	3.187	11.1	22.1	5 11	17 43.33	-10 56.3	1.654	2.533	13.9	20.9
5 21	17 40.92	-14 29.5	2.246	3.183	8.2	21.9	5 21	17 38.68	-10 14.4	1.568	2.509	10.8	20.7
5 31	17 32.79	-14 36.1	2.192	3.178	5.1	21.7	5 31	17 31.82	-9 39.8	1.505	2.486	7.6	20.4
6 10	17 23.61	-14 47.8	2.165	3.173	2.7	21.6	6 10	17 23.50	-9 15.7	1.466	2.463	5.7	20.2
6 20	17 14.19	-15 4.5	2.168	3.167	4.1	21.7	6 20	17 14.72	-9 4.9	1.451	2.441	7.1	20.3
6 30	17 5.36	-15 26.0	2.198	3.160	7.2	21.8	6 30	17 6.58	-9 8.9	1.462	2.418	10.5	20.4
7 10	16 57.89	-15 52.0	2.255	3.153	10.3	22.0	7 10	17 0.13	-9 27.8	1.494	2.397	14.2	20.6
7 20	16 52.31	-16 22.2	2.334	3.144	13.0	22.2	7 20	16 56.08	-9 59.8	1.546	2.375	17.6	20.7
<b>503107</b>	2015 FQ <sub>317</sub>		6 11.9 222°86	5°5/11.0 18			<b>267885</b>	2003 YR <sub>74</sub>		6 11.9 235°92	1°5/12.3 17		
5 11	17 45.54	-8 32.0	2.052	2.913	12.4	21.5	5 11	17 51.30	-28 29.2	1.890	2.758	13.0	21.3
5 21	17 39.75	-7 57.0	1.978	2.906	9.7	21.3	5 21	17 44.30	-28 14.7	1.802	2.744	9.6	21.1
5 31	17 32.17	-7 30.5	1.927	2.899	7.0	21.2	5 31	17 34.91	-27 52.2	1.738	2.729	5.7	20.8
6 10	17 23.51	-7 14.9	1.901	2.891	5.5	21.0	6 10	17 24.02	-27 20.6	1.701	2.714	1.9	20.5
6 20	17 14.61	-7 11.8	1.903	2.883	6.6	21.1	6 20	17 12.75	-26 40.7	1.691	2.697	3.8	20.6
6 30	17 6.37	-7 22.0	1.931	2.875	9.2	21.2	6 30	17 2.36	-25 55.2	1.709	2.680	8.0	20.9
7 10	16 59.58	-7 44.6	1.983	2.866	12.1	21.4	7 10	16 53.90	-25 8.3	1.751	2.663	12.0	21.1
7 20	16 54.79	-8 17.9	2.055	2.857	14.8	21.6	7 20	16 48.06	-24 24.1	1.816	2.644	15.4	21.3
<b>478114</b>	2011 UW <sub>84</sub>		6 11.9 214°98	4°0/12.3 18			<b>115449</b>	Robson		6 11.9 227°96	2°6/11.6 18		
5 11	17 48.03	-34 24.4	2.460	3.312	10.9	21.5	5 11	17 45.63	-16 17.1	2.118	2.990	11.6	20.2
5 21	17 41.63	-35 9.8	2.383	3.309	8.4	21.4	5 21	17 39.83	-16 0.1	2.040	2.984	8.5	20.0
5 31	17 33.29	-35 47.7	2.331	3.305	5.8	21.2	5 31	17 32.23	-15 45.9	1.987	2.976	5.2	19.8
6 10	17 23.71	-36 15.2	2.305	3.301	4.1	21.1	6 10	17 23.55	-15 35.7	1.960	2.969	2.7	19.6
6 20	17 13.80	-36 30.6	2.308	3.297	4.8	21.1	6 20	17 14.62	-15 30.1	1.961	2.961	4.2	19.7
6 30	17 4.54	-36 33.9	2.338	3.293	7.2	21.3	6 30	17 6.35	-15 30.2	1.989	2.953	7.6	19.9
7 10	16 56.82	-36 27.4	2.393	3.289	9.8	21.4	7 10	16 59.55	-15 36.3	2.042	2.945	10.9	20.1
7 20	16 51.24	-36 14.4	2.471	3.284	12.3	21.6	7 20	16 54.75	-15 48.6	2.116	2.936	13.8	20.3
<b>208579</b>	2002 CV <sub>73</sub>		6 11.9 57°78	2°7/11.8 17			<b>130616</b>	2000 SX <sub>34</sub>		6 11.9 246°11	0°2/12.0 17		
5 11	17 48.48	-16 53.6	1.315	2.206	16.1	20.0	5 11	17 49.80	-23 38.0	1.540	2.423	14.6	20.3
5 21	17 42.60	-16 54.0	1.259	2.211	11.8	19.7	5 21	17 43.56	-23 41.7	1.463	2.414	10.6	20.0
5 31	17 34.02	-16 59.8	1.223	2.217	6.9	19.5	5 31	17 34.64	-23 43.1	1.409	2.404	6.0	19.7
6 10	17 23.84	-17 11.3	1.211	2.223	2.9	19.2	6 10	17 23.99	-23 41.0	1.379	2.394	1.1	19.4
6 20	17 13.40	-17 28.2	1.223	2.229	5.2	19.4	6 20	17 12.88	-23 35.3	1.376	2.384	4.1	19.6
6 30	17 4.17	-17 50.3	1.260	2.235	9.9	19.7	6 30	17 2.73	-23 27.1	1.398	2.373	9.0	19.8
7 10	16 57.28	-18 17.4	1.319	2.241	14.3	20.0	7 10	16 54.75	-23 19.1	1.444	2.363	13.5	20.0
7 20	16 53.41	-18 49.0	1.397	2.247	18.1	20.2	7 20	16 49.70	-23 13.5	1.509	2.352	17.3	20.3
<b>362838</b>	2012 BR <sub>3</sub>		6 11.9 212°34	5°0/11.8 18			<b>310696</b>	2002 GZ <sub>183</sub>		6 11.9 85°71	1°0/11.9 17		
5 11	17 43.84	-5 10.8	2.626	3.469	10.6	20.8	5 11	17 50.55	-21 37.5	1.412	2.298	15.5	21.0
5 21	17 38.20	-5 13.5	2.551	3.465	8.4	20.6	5 21	17 43.80	-21 24.8	1.364	2.316	11.1	20.8
5 31	17 31.19	-5 26.4	2.500	3.462	6.2	20.5	5 31	17 34.54	-21 11.2	1.338	2.333	6.2	20.6
6 10	17 23.35	-5 50.5	2.476	3.459	5.0	20.4	6 10	17 23.93	-20 56.8	1.336	2.350	1.4	20.3
6 20	17 15.32	-6 25.7	2.480	3.455	5.6	20.4	6 20	17 13.31	-20 42.5	1.360	2.367	4.3	20.5
6 30	17 7.80	-7 11.3	2.512	3.451	7.6	20.5	6 30	17 4.03	-20 30.4	1.409	2.384	9.0	20.8
7 10	17 1.38	-8 5.4	2.570	3.447	9.9	20.7	7 10	16 57.12	-20 22.3	1.481	2.400	13.2	21.1
7 20	16 56.53	-9 6.0	2.651	3.443	12.1	20.8	7 20	16 53.10	-20 19.6	1.573	2.417	16.7	21.4
<b>425666</b>	2010 XS <sub>61</sub>		6 11.9 253°67	0°4/11.9 17			<b>42065</b>	2000 YJ <sub>128</sub>		6 12.0 280°04	2°3/11.9 18		
5 11	17 49.01	-23 41.5	1.655	2.536	13.9	21.3	5 11	17 47.66	-15 50.5	1.880	2.753	12.8	18.5
5 21	17 42.80	-23 17.7	1.574	2.524	10.1	21.0	5 21	17 41.75	-16 6.5	1.785	2.729	9.5	18.3
5 31	17 34.11	-22 49.5	1.516	2.511	5.7	20.8	5 31	17 33.57	-16 28.7	1.713	2.704	5.7	18.0
6 10	17 23.87	-22 17.3	1.483	2.497	1.0	20.4	6 10	17 23.84	-16 56.8	1.668	2.679	2.5	17.7
6 20	17 13.23	-21 42.4	1.476	2.484	4.0	20.6	6 20	17 13.50	-17 30.0	1.650	2.654	4.3	17.8
6 30	17 3.51	-21 7.7	1.496	2.470	8.7	20.8	6 30	17 3.69	-18 7.5	1.659	2.628	8.4	18.0
7 10	16 55.80	-20 36.6	1.540	2.456	13.0	21.1	7 10	16 55.46	-18 48.7	1.692	2.602	12.4	18.2
7 20	16 50.80	-20 11.7	1.604	2.441	16.7	21.3	7 20	16 49.58	-19 32.8	1.747	2.576	15.9	18.3
<b>21530</b>	Despiau		6 11.9 359°51	4°4/13.1 18			<b>519954</b>	2013					