

EPHEMERIDES

8 21.9

8 22.0

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>304264</b>	2006 <i>RU</i> <sub>85</sub>		8 21.9	35°16	0°4/21.7	18	<b>370857</b>	2005 <i>EK</i> <sub>2</sub>		8 22.0	92°91	0°2/21.9	17
7 20	22 27.10	-11 2.6	1.851	2.732	12.9	21.1	7 20	22 30.72	-9 7.0	1.457	2.339	15.7	21.0
7 30	22 22.13	-11 29.1	1.786	2.734	9.4	20.9	7 30	22 25.02	-9 51.6	1.408	2.356	11.4	20.8
8 9	22 15.33	-12 4.3	1.745	2.737	5.4	20.6	8 9	22 17.09	-10 49.0	1.381	2.373	6.6	20.6
8 19	22 7.35	-12 43.9	1.729	2.740	1.2	20.4	8 19	22 7.79	-11 53.0	1.379	2.390	1.5	20.3
8 29	21 59.09	-13 22.8	1.740	2.743	3.2	20.5	8 29	21 58.29	-12 55.8	1.403	2.406	3.6	20.5
9 8	21 51.53	-13 56.0	1.779	2.746	7.3	20.8	9 8	21 49.83	-13 50.5	1.453	2.423	8.4	20.8
9 18	21 45.48	-14 20.0	1.842	2.750	11.0	21.0	9 18	21 43.36	-14 32.2	1.528	2.438	12.6	21.1
9 28	21 41.57	-14 32.6	1.927	2.753	14.2	21.2	9 28	21 39.52	-14 58.3	1.623	2.454	16.1	21.4
<b>236432</b>	2006 <i>DF</i> <sub>132</sub>		8 22.0	123°04	1°8/20.4	17 R	<b>171215</b>	2005 <i>JJ</i> <sub>77</sub>		8 22.0	107°96	2°1/23.8	18
7 20	22 27.94	-13 50.8	1.755	2.643	13.2	20.4	7 20	22 28.90	-4 41.3	1.988	2.843	13.3	19.8
7 30	22 22.86	-14 41.5	1.693	2.646	9.5	20.2	7 30	22 23.29	-4 40.4	1.922	2.851	10.0	19.6
8 9	22 15.80	-15 39.6	1.654	2.648	5.4	20.0	8 9	22 15.95	-4 51.5	1.879	2.859	6.4	19.4
8 19	22 7.47	-16 39.3	1.641	2.651	1.9	19.7	8 19	22 7.53	-5 12.5	1.862	2.867	2.9	19.2
8 29	21 58.83	-17 33.9	1.656	2.654	4.3	19.9	8 29	21 58.86	-5 39.9	1.872	2.875	3.0	19.3
9 8	21 50.94	-18 17.6	1.697	2.656	8.3	20.1	9 8	21 50.86	-6 9.3	1.910	2.882	6.5	19.5
9 18	21 44.67	-18 47.1	1.762	2.659	12.0	20.4	9 18	21 44.30	-6 36.8	1.974	2.889	10.0	19.7
9 28	21 40.69	-19 0.7	1.848	2.661	15.2	20.6	9 28	21 39.77	-6 58.8	2.062	2.897	13.0	19.9
<b>272839</b>	2006 <i>BD</i> <sub>17</sub>		8 22.0	163°91	1°8/19.9	18	<b>447084</b>	2004 <i>TX</i> <sub>43</sub>		8 22.0	253°20	2°6/19.4	18
7 20	22 24.88	-15 37.6	2.679	3.559	9.5	20.7	7 20	22 27.26	-18 49.3	2.455	3.338	10.1	21.6
7 30	22 20.07	-16 27.2	2.613	3.562	6.8	20.6	7 30	22 21.99	-19 23.9	2.378	3.328	7.3	21.4
8 9	22 13.96	-17 20.7	2.572	3.565	3.9	20.4	8 9	22 15.17	-20 0.3	2.327	3.318	4.4	21.2
8 19	22 7.02	-18 13.9	2.559	3.567	1.8	20.2	8 19	22 7.35	-20 34.1	2.303	3.307	2.6	21.1
8 29	21 59.87	-19 2.5	2.576	3.569	3.4	20.3	8 29	21 59.23	-21 1.3	2.308	3.297	4.2	21.2
9 8	21 53.18	-19 42.8	2.621	3.571	6.3	20.5	9 8	21 51.61	-21 18.4	2.340	3.286	7.2	21.4
9 18	21 47.53	-20 12.5	2.692	3.573	8.9	20.7	9 18	21 45.18	-21 23.8	2.398	3.275	10.0	21.5
9 28	21 43.41	-20 30.3	2.787	3.575	11.3	20.9	9 28	21 40.50	-21 16.8	2.479	3.264	12.6	21.7
<b>371390</b>	2006 <i>RD</i> <sub>19</sub>		8 22.0	328°22	2°2/23.5	18	<b>373187</b>	2012 <i>DG</i> <sub>59</sub>		8 22.0	145°92	1°5/20.8	17
7 20	22 19.67	-4 9.6	1.035	1.938	18.9	19.9	7 20	22 32.37	-13 26.8	1.726	2.607	13.7	22.0
7 30	22 18.05	-4 39.3	0.953	1.909	14.5	19.5	7 30	22 26.06	-14 8.3	1.667	2.616	9.9	21.7
8 9	22 13.66	-5 36.8	0.889	1.881	9.3	19.1	8 9	22 17.66	-14 57.0	1.632	2.625	5.7	21.5
8 19	22 7.09	-6 59.4	0.845	1.854	3.6	18.7	8 19	22 7.94	-15 47.2	1.623	2.633	1.8	21.3
8 29	21 59.55	-8 38.4	0.823	1.829	4.2	18.7	8 29	21 57.96	-16 32.4	1.642	2.641	4.1	21.5
9 8	21 52.66	-10 21.1	0.822	1.805	10.4	18.9	9 8	21 48.85	-17 7.5	1.687	2.648	8.3	21.7
9 18	21 47.93	-11 54.2	0.841	1.783	16.4	19.2	9 18	21 41.53	-17 29.4	1.758	2.654	12.1	22.0
9 28	21 46.56	-13 7.4	0.877	1.762	21.7	19.4	9 28	21 36.66	-17 36.9	1.850	2.660	15.3	22.2
<b>342132</b>	2008 <i>SK</i> <sub>124</sub>		8 22.0	252°41	0°5/22.4	18	<b>514639</b>	2004 <i>XY</i> <sub>177</sub>		8 22.0	289°07	4°9/17.9	18
7 20	22 28.33	-8 34.4	1.890	2.761	13.1	21.9	7 20	22 28.56	-21 4.6	1.651	2.551	13.2	20.9
7 30	22 23.14	-8 57.2	1.808	2.750	9.7	21.6	7 30	22 23.70	-22 12.1	1.578	2.535	9.8	20.6
8 9	22 16.01	-9 31.0	1.750	2.739	5.8	21.4	8 9	22 16.52	-23 22.5	1.528	2.518	6.4	20.4
8 19	22 7.55	-10 12.4	1.717	2.727	1.6	21.1	8 19	22 7.72	-24 27.7	1.503	2.502	4.9	20.3
8 29	21 58.64	-10 56.3	1.711	2.715	3.0	21.1	8 29	21 58.37	-25 19.4	1.504	2.485	7.1	20.4
9 8	21 50.28	-11 37.5	1.733	2.703	7.2	21.4	9 8	21 49.70	-25 51.8	1.530	2.469	10.8	20.6
9 18	21 43.39	-12 11.4	1.781	2.690	11.2	21.6	9 18	21 42.82	-26 2.2	1.579	2.453	14.5	20.8
9 28	21 38.67	-12 35.0	1.850	2.678	14.6	21.8	9 28	21 38.54	-25 51.1	1.647	2.437	17.7	20.9
<b>134027</b>	Deanbooyer		8 22.0	133°86	3°6/19.6	18	<b>480039</b>	2015 <i>BK</i> <sub>266</sub>		8 22.0	124°60	1°1/22.9	17
7 20	22 33.48	-17 59.7	1.417	2.313	15.2	19.8	7 20	22 30.63	-6 54.0	1.734	2.600	14.4	21.7
7 30	22 27.27	-18 46.5	1.363	2.319	11.0	19.6	7 30	22 24.74	-7 15.8	1.674	2.612	10.6	21.5
8 9	22 18.51	-19 37.1	1.331	2.324	6.6	19.4	8 9	22 16.87	-7 50.3	1.636	2.623	6.4	21.3
8 19	22 8.13	-20 23.7	1.323	2.329	3.6	19.2	8 19	22 7.75	-8 33.5	1.625	2.634	2.1	21.0
8 29	21 57.44	-20 58.7	1.341	2.334	6.0	19.4	8 29	21 58.40	-9 19.9	1.640	2.644	3.0	21.1
9 8	21 47.85	-21 16.7	1.385	2.338	10.3	19.6	9 8	21 49.86	-10 4.0	1.683	2.654	7.3	21.4
9 18	21 40.48	-21 16.3	1.451	2.343	14.4	19.9	9 18	21 43.01	-10 41.2	1.751	2.664	11.2	21.6
9 28	21 36.48	-20 58.1	1.536	2.346	17.9	20.1	9 28	21 38.50	-11 8.0	1.842	2.673	14.5	21.9
<b>217603</b>	Grove Creek		8 22.0	34°95	8°3/30.9	18	<b>72189</b>	2000 <i>YA</i> <sub>121</sub>		8 22.0	158°37	3°2/24.4	18
7 20	22 23.97	+14 10.8	2.058	2.821	16.0	19.6	7 20	22 31.27	-2 18.2	1.633	2.486	15.7	19.5
7 30	22 19.77	+14 36.6	1.987	2.828	13.8	19.4	7 30	22 25.40	-2 17.1	1.565	2.491	12.1	19.3
8 9	22 13.95	+14 38.1	1.935	2.835	11.4	19.3	8 9	22 17.36	-2 32.8	1.518	2.495	8.0	19.1
8 19	22 7.06	+14 14.5	1.905	2.843	9.4	19.2	8 19	22 7.89	-3 3.3	1.496	2.498	4.2	18.8
8 29	21 59.88	+13 26.8	1.900	2.852	8.3	19.1	8 29	21 58.06	-3 44.3	1.500	2.501	4.0	18.8
9 8	21 53.26	+12 19.8	1.919	2.860	8.8	19.2	9 8	21 49.01	-4 29.9	1.531	2.504	7.7	19.1
9 18	21 47.94	+10 59.9	1.962	2.869	10.5	19.3	9 18	21 41.73	-5 14.2	1.587	2.506	11.7	19.3
9 28	21 44.50	+9 34.5	2.030	2.878	12.7	19.5	9 28	21 36.93	-5 52.2	1.665	2.508	15.2	19.5
<b>140438</b>	2001 <i>TJ</i> <sub>108</sub>		8 22.0	198°85	0°3/21.8	18	<b>257079</b>	2008 <i>FU</i> <sub>131</sub>		8 22.0	340°50	3°9/25.7	18
7 20	22 28.35	-11 24.9	2.439	3.307	10.7	20.4	7 20	22 22.26	+1 34.7	1.775	2.622	14.9	20.0
7 30	22 22.70	-11 42.4	2.363	3.304	7.8	20.2	7 30	22 18.79	+1 13.1	1.696	2.614	11.8	19.8
8 9	22 15.55	-12 6.0	2.311	3.301	4.5	20.0	8 9	22 13.51	+0 30.6	1.638	2.607	8.2	19.5
8 19	22 7.43	-12 32.7	2.286	3.297	1.0	19.7	8 19	22 7.00	+0 30.6	1.603	2.600	4.9	19.3
8 29	21 59.04	-12 58.9	2.291	3.294	2.6	19.9	8 29	22 0.09	-1 46.0	1.595	2.594	4.2	19.3
9 8	21 51.15	-13 21.1	2.325	3.289	6.0	20.1	9 8	21 53.73	-3 8.4	1.613	2.588	7.0	19.4
9 18	21 44.45	-13 36.8	2.385	3.285	9.2	20.3	9 18	21 48.75	-4 30.5	1.655	2.583	10.7	19.6
9 28	21 39.47	-13 44.2	2.470	3.280	11.9	20.5	9 28	21 45.84	-5 45.3	1.721	2.579	14.1	19.8
<b>20024</b>	Mayrémartínez		8 22.0	248°97	0°4/21.6	18	<b>382415</b>	1998 <i>FJ</i> <sub>124</sub>		8 22.0	114°67	2°1/20.0	17
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EPHEMERIDES

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>260475</b>	2005 CA <sub>5</sub>	8 22.0	90°56	0°1/21.9	17		<b>386765</b>	2010 CC <sub>144</sub>	8 22.0	261°91	4°7/25.3	18	
7 20	22 33.74	-10 51.6	1.415	2.299	16.0	20.4	7 20	22 30.15	+ 0 29.3	1.810	2.647	15.1	20.8
7 30	22 27.28	-11 3.1	1.365	2.313	11.7	20.2	7 30	22 24.60	+ 0 58.1	1.725	2.637	12.0	20.6
8 9	22 18.44	-11 24.6	1.336	2.328	6.8	20.0	8 9	22 16.98	+ 1 10.9	1.662	2.626	8.6	20.4
8 19	22 8.13	-11 51.3	1.331	2.342	1.6	19.7	8 19	22 7.90	+ 1 7.6	1.623	2.615	5.5	20.2
8 29	21 57.64	-12 17.4	1.353	2.356	3.7	19.9	8 29	21 58.30	+ 0 50.2	1.610	2.604	5.0	20.1
9 8	21 48.28	-12 37.6	1.400	2.370	8.6	20.2	9 8	21 49.26	+ 0 22.5	1.625	2.593	7.7	20.3
9 18	21 41.08	-12 48.5	1.471	2.383	12.9	20.5	9 18	21 41.74	- 0 10.3	1.664	2.582	11.3	20.5
9 28	21 36.69	-12 48.4	1.563	2.397	16.5	20.8	9 28	21 36.51	- 0 42.8	1.726	2.571	14.7	20.7
<b>207229</b>	2005 EA <sub>155</sub>	8 22.0	163°32	2°6/19.9	18		<b>313332</b>	2002 FA <sub>36</sub>	8 22.0	194°51	2°8/18.4	18	
7 20	22 29.81	-17 38.5	1.979	2.866	12.0	20.2	7 20	22 25.53	-18 48.2	2.722	3.604	9.2	20.9
7 30	22 24.06	-18 12.7	1.916	2.867	8.7	20.0	7 30	22 20.64	-19 57.5	2.653	3.602	6.7	20.7
8 9	22 16.47	-18 49.7	1.876	2.869	5.1	19.8	8 9	22 14.39	-21 9.3	2.610	3.600	4.1	20.5
8 19	22 7.70	-19 24.4	1.863	2.870	2.6	19.6	8 19	22 7.25	-22 18.7	2.596	3.596	2.8	20.4
8 29	21 58.67	-19 51.6	1.878	2.871	4.5	19.8	8 29	21 59.84	-23 20.7	2.611	3.593	4.4	20.5
9 8	21 50.36	-20 7.6	1.920	2.872	8.0	20.0	9 8	21 52.85	-24 11.4	2.654	3.589	7.0	20.7
9 18	21 43.58	-20 10.4	1.987	2.873	11.4	20.2	9 18	21 46.90	-24 48.4	2.724	3.585	9.5	20.9
9 28	21 38.96	-19 59.9	2.075	2.874	14.2	20.4	9 28	21 42.49	-25 10.8	2.816	3.580	11.7	21.0
<b>218290</b>	2003 OJ <sub>6</sub>	8 22.0	356°79	7°2/27.4	18		<b>178810</b>	2001 FP <sub>76</sub>	8 22.0	152°47	0°1/21.9	18	
7 20	22 26.17	+ 6 13.2	1.777	2.595	16.1	19.0	7 20	22 30.04	- 8 40.6	1.865	2.734	13.4	21.2
7 30	22 21.64	+ 7 7.7	1.703	2.592	13.4	18.8	7 30	22 24.29	- 9 30.6	1.801	2.743	9.8	21.0
8 9	22 15.19	+ 7 42.7	1.648	2.589	10.5	18.6	8 9	22 16.66	-10 32.3	1.761	2.751	5.7	20.8
8 19	22 7.42	+ 7 56.3	1.617	2.587	8.1	18.5	8 19	22 7.80	-11 40.3	1.747	2.758	1.3	20.5
8 29	21 59.25	+ 7 49.2	1.610	2.586	7.3	18.4	8 29	21 58.66	-12 48.3	1.762	2.765	3.1	20.7
9 8	21 51.66	+ 7 24.7	1.628	2.586	8.7	18.5	9 8	21 50.24	-13 50.0	1.805	2.771	7.3	20.9
9 18	21 45.57	+ 6 48.3	1.670	2.586	11.4	18.7	9 18	21 43.39	-14 40.7	1.873	2.776	11.1	21.2
9 28	21 41.65	+ 6 6.4	1.734	2.588	14.2	18.9	9 28	21 38.73	-15 17.6	1.964	2.781	14.3	21.4
<b>80750</b>	2000 CR <sub>44</sub>	8 22.0	233°63	3°1/24.2	18		<b>204768</b>	2006 KX <sub>4</sub>	8 22.0	151°78	1°5/20.9	17	
7 20	22 29.75	- 3 3.6	1.601	2.461	15.7	19.2	7 20	22 32.33	-12 42.2	1.624	2.507	14.3	21.1
7 30	22 24.41	- 2 59.8	1.528	2.458	12.1	19.0	7 30	22 26.20	-13 30.0	1.565	2.514	10.4	20.8
8 9	22 16.87	- 3 12.4	1.476	2.455	8.0	18.8	8 9	22 17.86	-14 26.7	1.528	2.521	6.0	20.6
8 19	22 7.83	- 3 39.5	1.448	2.452	4.0	18.5	8 19	22 8.10	-15 26.0	1.518	2.528	1.7	20.3
8 29	21 58.34	- 4 16.9	1.447	2.448	3.9	18.5	8 29	21 58.03	-16 20.6	1.534	2.534	4.2	20.5
9 8	21 49.57	- 4 58.9	1.471	2.445	7.8	18.7	9 8	21 48.85	-17 4.4	1.578	2.539	8.6	20.8
9 18	21 42.54	- 5 39.6	1.520	2.442	11.9	19.0	9 18	21 41.53	-17 33.9	1.645	2.544	12.6	21.1
9 28	21 38.01	- 6 14.0	1.591	2.438	15.6	19.2	9 28	21 36.79	-17 47.5	1.734	2.548	16.0	21.3
<b>473102</b>	2015 HV <sub>170</sub>	8 22.0	98°76	6°9/16.1	16		<b>321591</b>	2009 UC <sub>86</sub>	8 22.0	264°71	3°0/25.7	18	
7 20	22 31.02	-27 39.3	1.741	2.636	12.9	21.1	7 20	22 23.10	+ 1 57.3	2.518	3.343	11.8	20.7
7 30	22 25.23	-28 57.1	1.696	2.643	9.9	20.9	7 30	22 18.99	+ 1 22.0	2.423	3.328	9.3	20.5
8 9	22 17.24	-30 9.2	1.675	2.651	7.5	20.8	8 9	22 13.51	+ 0 30.4	2.350	3.314	6.5	20.4
8 19	22 7.89	-31 7.3	1.679	2.658	7.0	20.8	8 19	22 7.07	+ 0 35.6	2.304	3.299	3.8	20.2
8 29	21 58.31	-31 44.3	1.709	2.666	8.7	20.9	8 29	22 0.29	- 1 52.3	2.296	3.284	3.2	20.1
9 8	21 49.70	-31 57.2	1.763	2.673	11.5	21.1	9 8	21 53.85	- 3 14.7	2.287	3.269	5.6	20.2
9 18	21 43.01	-31 46.3	1.840	2.680	14.3	21.3	9 18	21 48.39	- 4 37.0	2.336	3.254	8.5	20.4
9 28	21 38.88	-31 14.4	1.935	2.687	16.7	21.5	9 28	21 44.45	- 5 54.2	2.400	3.239	11.3	20.6
<b>477139</b>	2009 DT <sub>16</sub>	8 22.0	242°07	0°4/21.5	18		<b>256512</b>	2007 EB <sub>137</sub>	8 22.0	279°54	1°2/20.8	18	
7 20	22 26.14	- 8 45.9	2.259	3.126	11.4	21.9	7 20	22 25.52	-12 59.5	2.151	3.032	11.4	21.1
7 30	22 21.37	- 9 55.1	2.169	3.111	8.4	21.7	7 30	22 20.94	-13 42.7	2.073	3.022	8.2	20.9
8 9	22 14.96	-11 16.5	2.104	3.095	4.9	21.5	8 9	22 14.70	-14 33.1	2.019	3.013	4.7	20.6
8 19	22 7.38	-12 45.2	2.067	3.078	1.1	21.2	8 19	22 7.36	-15 26.3	1.993	3.003	1.4	20.4
8 29	21 59.36	-14 15.1	2.060	3.061	3.0	21.3	8 29	21 59.66	-16 17.1	1.994	2.993	3.4	20.5
9 8	21 51.73	-15 39.5	2.081	3.044	6.8	21.5	9 8	21 52.47	-17 0.5	2.022	2.983	7.1	20.7
9 18	21 45.25	-16 53.2	2.130	3.026	10.3	21.7	9 18	21 46.52	-17 33.1	2.077	2.973	10.5	20.9
9 28	21 40.57	-17 52.5	2.202	3.007	13.3	21.9	9 28	21 42.45	-17 52.7	2.153	2.964	13.4	21.1
<b>400232</b>	2007 ET <sub>219</sub>	8 22.0	213°35	4°1/17.7	18		<b>212890</b>	2007 VE <sub>287</sub>	8 22.0	28°95	5°4/18.2	18	
7 20	22 28.15	-24 12.9	2.547	3.431	9.7	20.8	7 20	22 27.14	-18 26.0	1.063	1.982	17.1	19.2
7 30	22 22.60	-24 58.4	2.481	3.427	7.2	20.7	7 30	22 23.22	-19 58.1	1.022	1.990	12.4	19.0
8 9	22 15.53	-25 42.0	2.440	3.422	5.0	20.5	8 9	22 16.42	-21 35.8	1.002	1.998	7.7	18.8
8 19	22 7.49	-26 19.0	2.427	3.418	4.1	20.5	8 19	22 7.78	-23 6.6	1.003	2.006	5.4	18.7
8 29	21 59.20	-26 44.9	2.442	3.413	5.5	20.5	8 29	21 58.82	-24 18.2	1.028	2.016	8.3	18.9
9 8	21 51.46	-26 57.1	2.484	3.408	7.9	20.7	9 8	21 51.16	-25 2.9	1.074	2.026	12.8	19.1
9 18	21 44.95	-26 54.5	2.551	3.402	10.4	20.9	9 18	21 45.99	-25 18.5	1.140	2.037	17.1	19.4
9 28	21 40.20	-26 37.7	2.640	3.397	12.6	21.0	9 28	21 44.07	-25 6.9	1.223	2.049	20.7	19.7
<b>198323</b>	2004 TE <sub>355</sub>	8 22.0	301°25	8°2/15.5	18		<b>389318</b>	2009 SV <sub>169</sub>	8 22.0	272°98	1°4/24.5	17	
7 20	22 32.21	-30 28.1	1.620	2.515	13.7	19.7	7 20	22 19.10	- 3 9.3	4.463	5.296	6.9	20.9
7 30	22 26.41	-31 41.6	1.566	2.510	10.9	19.6	7 30	22 15.54	- 3 18.8	4.373	5.289	5.2	20.8
8 9	22 18.09	-32 47.2	1.536	2.505	8.7	19.4	8 9	22 11.26	- 3 34.7	4.308	5.281	3.5	20.6
8 19	22 8.13	-33 35.6	1.529	2.500	8.4	19.4	8 19	22 6.51	- 3 55.9	4.272	5.273	1.8	20.5
8 29	21 57.81	-33 59.2	1.547	2.495	10.1	19.5	8 29	22 1.63	- 4 20.7	4.264	5.265	1.7	20.5
9 8	21 48.51	-33 55.0	1.588	2.491	12.9	19.6	9 8	21 56.96	- 4 47.3	4.287	5.257	3.3	20.6
9 18	21 41.34	-33 24.3	1.650	2.486	15.8	19.8	9 18	21 52.81	- 5 13.8	4.338	5.249	5.1	20.7
9 28	21 37.04	-32 30.7	1.730	2.482	18.4	20.0	9 28	21 49.48	- 5 38.4	4.415	5.241	6.8	20.8
<b>463204</b>	2012 CO <sub>34</sub>	8 22.0	44°15	1°2/21.2	17		<b>435807</b>	2008 VV <sub>60</sub>	8 22.0	337°69	3°8/19.4	18	
7 20	22 26.98												

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>300622</b>	2007 <i>UW</i> <sub>28</sub>		8 22.0 274°66	4.8/26.3	18		<b>292641</b>	2006 <i>UZ</i> <sub>35</sub>		8 22.1 39°68	5.0/25.6	17	
7 20	22 26.15	+ 3 22.1	2.032	2.856	14.2	21.0	7 20	22 27.62	+ 0 51.5	1.255	2.119	18.9	20.5
7 30	22 21.57	+ 3 24.7	1.936	2.837	11.4	20.8	7 30	22 23.16	+ 0 58.0	1.201	2.128	14.8	20.3
8 9	22 15.18	+ 3 8.9	1.862	2.819	8.4	20.6	8 9	22 16.26	+ 0 40.0	1.165	2.138	10.3	20.0
8 19	22 7.50	+ 2 35.0	1.812	2.800	5.6	20.4	8 19	22 7.77	- 0 0.5	1.151	2.149	6.2	19.8
8 29	21 59.31	+ 1 45.5	1.789	2.781	4.9	20.3	8 29	21 58.94	- 0 58.2	1.161	2.160	5.3	19.8
9 8	21 51.53	+ 0 45.2	1.793	2.762	7.1	20.4	9 8	21 51.13	- 2 4.5	1.194	2.171	8.8	20.1
9 18	21 44.99	- 0 19.9	1.822	2.742	10.4	20.6	9 18	21 45.39	- 3 10.7	1.251	2.183	13.0	20.3
9 28	21 40.41	- 1 23.6	1.875	2.723	13.6	20.7	9 28	21 42.47	- 4 9.1	1.328	2.196	16.9	20.6
<b>191675</b>	2004 <i>RP</i> <sub>38</sub>		8 22.0 34°65	0.2/21.9	17		<b>385441</b>	2003 <i>OG</i> <sub>5</sub>		8 22.1 5°00	5.3/24.2	18	
7 20	22 28.27	-10 13.9	1.284	2.180	16.5	20.3	7 20	22 31.94	- 4 23.9	1.175	2.055	18.8	19.1
7 30	22 23.53	-10 36.2	1.236	2.191	12.0	20.1	7 30	22 26.54	- 2 58.7	1.116	2.055	14.7	18.8
8 9	22 16.39	-11 10.9	1.209	2.203	7.0	19.8	8 9	22 18.34	- 1 47.3	1.076	2.056	10.1	18.6
8 19	22 7.76	-11 52.3	1.205	2.216	1.6	19.5	8 19	22 8.28	- 0 52.0	1.058	2.058	6.1	18.4
8 29	21 58.90	-12 33.3	1.226	2.230	3.8	19.7	8 29	21 57.77	- 0 12.9	1.064	2.062	6.0	18.4
9 8	21 51.14	-13 7.3	1.271	2.244	8.8	20.1	9 8	21 48.37	+ 0 12.3	1.093	2.068	9.8	18.6
9 18	21 45.48	-13 30.0	1.338	2.259	13.3	20.4	9 18	21 41.33	+ 0 27.7	1.144	2.074	14.2	18.9
9 28	21 42.60	-13 38.9	1.426	2.274	17.0	20.7	9 28	21 37.47	+ 0 38.6	1.215	2.083	18.1	19.2
<b>168119</b>	2006 <i>FZ</i> <sub>27</sub>		8 22.0 59°80	2.4/23.8	18		<b>385327</b>	2002 <i>CK</i> <sub>58</sub>		8 22.1 217°23	1.8/23.4	18	
7 20	22 28.44	- 3 26.1	1.230	2.109	18.2	19.8	7 20	22 32.26	- 6 0.8	2.193	3.042	12.4	22.4
7 30	22 23.77	- 3 54.1	1.177	2.120	13.8	19.6	7 30	22 25.81	- 5 53.8	2.106	3.033	9.4	22.1
8 9	22 16.61	- 4 43.7	1.145	2.131	8.7	19.3	8 9	22 17.55	- 5 56.4	2.043	3.024	6.0	21.9
8 19	22 7.83	- 5 50.0	1.135	2.142	3.7	19.1	8 19	22 8.07	- 6 7.0	2.008	3.014	2.5	21.7
8 29	21 58.73	- 7 5.0	1.149	2.153	3.8	19.1	8 29	21 58.19	- 6 22.7	2.001	3.003	2.9	21.7
9 8	21 50.70	- 8 19.1	1.188	2.165	8.7	19.4	9 8	21 48.82	- 6 40.1	2.023	2.992	6.4	21.9
9 18	21 44.83	- 9 24.1	1.249	2.177	13.4	19.7	9 18	21 40.78	- 6 55.9	2.072	2.980	9.9	22.1
9 28	21 41.84	-10 14.4	1.331	2.189	17.4	20.0	9 28	21 34.74	- 7 7.2	2.145	2.968	13.0	22.3
<b>192042</b>	2006 <i>AP</i> <sub>4</sub>		8 22.0 10°08	4.4/18.7	17		<b>513577</b>	2010 <i>VH</i> <sub>213</sub>		8 22.1 313°78	3.1/19.6	18	
7 20	22 22.47	-16 13.2	1.111	2.032	16.4	19.0	7 20	22 29.83	-19 57.4	1.999	2.887	11.8	20.8
7 30	22 19.73	-17 43.2	1.066	2.034	11.8	18.7	7 30	22 24.17	-20 18.9	1.928	2.879	8.6	20.6
8 9	22 14.38	-19 22.4	1.040	2.038	7.1	18.5	8 9	22 16.62	-20 41.0	1.881	2.871	5.3	20.4
8 19	22 7.32	-20 59.3	1.037	2.043	4.4	18.3	8 19	22 7.84	-20 58.8	1.860	2.864	3.1	20.2
8 29	21 59.89	-22 21.8	1.058	2.050	7.3	18.5	8 29	21 58.75	-21 7.7	1.866	2.856	4.9	20.3
9 8	21 53.54	-23 20.8	1.100	2.058	11.9	18.8	9 8	21 50.35	-21 4.8	1.900	2.849	8.3	20.5
9 18	21 49.41	-23 52.4	1.163	2.067	16.2	19.1	9 18	21 43.47	-20 48.8	1.958	2.842	11.6	20.7
9 28	21 48.23	-23 56.7	1.243	2.078	19.9	19.4	9 28	21 38.77	-20 20.0	2.038	2.836	14.5	20.9
<b>254307</b>	2004 <i>RM</i> <sub>308</sub>		8 22.0 286°46	2.6/24.4	18		<b>15509</b>	1999 <i>TX</i> <sub>113</sub>		8 22.1 167°45	5.0/27.1	18	
7 20	22 26.54	- 2 59.6	2.233	3.079	12.3	20.4	7 20	22 26.02	+ 5 35.5	1.997	2.810	14.8	18.4
7 30	22 21.61	- 2 53.2	2.147	3.069	9.5	20.2	7 30	22 21.35	+ 5 21.0	1.920	2.812	11.9	18.2
8 9	22 15.08	- 2 58.7	2.084	3.059	6.3	20.0	8 9	22 14.97	+ 4 45.3	1.864	2.814	8.8	18.0
8 19	22 7.46	- 3 14.7	2.047	3.048	3.3	19.8	8 19	22 7.46	+ 3 49.8	1.832	2.816	6.0	17.8
8 29	21 59.48	- 3 38.6	2.038	3.038	3.2	19.8	8 29	21 59.62	+ 2 38.0	1.827	2.817	5.1	17.8
9 8	21 51.96	- 4 6.9	2.056	3.028	6.1	19.9	9 8	21 52.32	+ 1 16.2	1.850	2.818	7.0	17.9
9 18	21 45.61	- 4 35.5	2.101	3.018	9.4	20.1	9 18	21 46.36	+ 0 8.7	1.898	2.819	10.0	18.1
9 28	21 41.06	- 5 0.8	2.170	3.007	12.4	20.3	9 28	21 42.35	- 1 29.9	1.971	2.819	13.0	18.3
<b>401402</b>	2013 <i>CY</i> <sub>57</sub>		8 22.0 38°91	3.2/25.6	18		<b>67557</b>	2000 <i>SP</i> <sub>82</sub>		8 22.1 173°11	4.9/18.4	18	
7 20	22 22.61	+ 2 10.2	1.770	2.614	15.1	19.9	7 20	22 33.42	-21 25.1	1.574	2.468	14.1	18.8
7 30	22 18.91	+ 1 12.5	1.712	2.631	11.7	19.7	7 30	22 27.20	-22 28.2	1.517	2.470	10.3	18.6
8 9	22 13.52	- 0 7.0	1.677	2.647	7.9	19.5	8 9	22 18.54	-23 32.1	1.483	2.472	6.7	18.4
8 19	22 7.08	- 1 44.0	1.666	2.665	4.4	19.3	8 19	22 8.32	-24 28.2	1.475	2.473	5.0	18.3
8 29	22 0.44	- 3 31.3	1.682	2.683	3.6	19.3	8 29	21 57.74	-25 8.8	1.493	2.474	7.1	18.5
9 8	21 54.48	- 5 20.3	1.725	2.701	6.6	19.5	9 8	21 48.14	-25 29.1	1.536	2.475	10.8	18.7
9 18	21 49.95	- 7 2.9	1.794	2.720	10.2	19.8	9 18	21 40.60	-25 28.0	1.602	2.475	14.4	18.9
9 28	21 47.40	- 8 32.7	1.887	2.739	13.3	20.0	9 28	21 35.83	-25 7.1	1.687	2.474	17.5	19.1
<b>478921</b>	2012 <i>XW</i> <sub>3</sub>		8 22.0 324°09	3.5/18.9	18		<b>436921</b>	2012 <i>TX</i> <sub>99</sub>		8 22.1 3°92	2.1/23.3	18	
7 20	22 27.26	-18 8.4	1.747	2.643	12.8	20.7	7 20	22 25.00	- 6 50.4	1.139	2.038	17.9	19.7
7 30	22 22.51	-19 12.3	1.684	2.640	9.3	20.5	7 30	22 21.50	- 6 41.0	1.083	2.037	13.5	19.4
8 9	22 15.74	-20 20.4	1.645	2.638	5.6	20.2	8 9	22 15.41	- 6 48.3	1.046	2.037	8.4	19.1
8 19	22 7.63	-21 25.7	1.632	2.636	3.5	20.1	8 19	22 7.60	- 7 9.2	1.030	2.039	3.3	18.8
8 29	21 59.16	-22 21.0	1.645	2.633	5.7	20.2	8 29	21 59.37	- 7 38.0	1.037	2.042	3.9	18.9
9 8	21 51.42	-23 0.8	1.684	2.631	9.3	20.5	9 8	21 52.16	- 8 7.8	1.066	2.047	9.1	19.2
9 18	21 45.32	-23 22.2	1.746	2.629	12.9	20.7	9 18	21 47.13	- 8 32.5	1.118	2.053	13.9	19.5
9 28	21 41.54	-23 24.9	1.829	2.627	15.9	20.9	9 28	21 45.05	- 8 47.2	1.188	2.060	18.1	19.8
<b>516129</b>	2015 <i>UM</i> <sub>83</sub>		8 22.0 339°61	6.4/16.2	18		<b>207847</b>	2007 <i>UJ</i> <sub>116</sub>		8 22.1 78°38	2.3/19.9	18	
7 20	22 26.86	-27 3.8	1.835	2.734	12.1	20.0	7 20	22 27.39	-15 36.2	1.871	2.760	12.4	20.4
7 30	22 22.25	-28 9.9	1.776	2.726	9.3	19.8	7 30	22 22.42	-16 28.0	1.811	2.765	8.9	20.2
8 9	22 15.60	-29 12.0	1.740	2.719	7.0	19.7	8 9	22 15.60	-17 25.3	1.776	2.769	5.2	20.0
8 19	22 7.60	-30 2.8	1.729	2.712	6.5	19.6	8 19	22 7.61	-18 22.0	1.766	2.774	2.4	19.8
8 29	21 59.25	-30 35.5	1.744	2.705	8.2	19.7	8 29	21 59.35	-19 12.1	1.784	2.779	4.5	20.0
9 8	21 51.66	-30 46.5	1.783	2.699	11.0	19.9	9 8	21 51.81	-19 50.5	1.828	2.784	8.1	20.2
9 18	21 45.75	-30 35.4	1.844	2.694	13.8	20.1	9 18	21 45.79	-20 14.4	1.898	2.788	11.6	20.4
9 28	21 42.17	-30 3.7	1.924	2.689	16.4	20.3	9 28	21 41.92	-20 22.8	1.988	2.793	14.5	20.6
<b>488799</b>	2005 <i>EE</i> <sub>38</sub>	</											

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>284595</b>	2007 <i>TJ</i> <sub>283</sub>		8 22.1 26°20'	1.3/23.1	16		<b>91013</b>	1998 <i>DG</i> <sub>2</sub>		8 22.1 181°57'	5.9/16.9	18	
7 20	22 23.94	- 5 45.4	1.169	2.065	17.8	19.6	7 20	22 32.59	-26 43.0	1.946	2.834	12.1	18.7
7 30	22 20.47	- 6 21.0	1.129	2.081	13.2	19.4	7 30	22 26.27	-27 44.1	1.890	2.835	9.2	18.6
8 9	22 14.65	- 7 15.6	1.108	2.099	8.0	19.2	8 9	22 17.89	-28 41.0	1.858	2.835	6.7	18.4
8 19	22 7.39	- 8 23.0	1.109	2.119	2.6	18.9	8 19	22 8.19	-29 26.4	1.852	2.835	6.0	18.4
8 29	21 59.95	- 9 34.4	1.134	2.139	3.6	19.1	8 29	21 58.20	-29 54.2	1.872	2.835	7.6	18.5
9 8	21 53.61	-10 40.6	1.183	2.161	8.6	19.4	9 8	21 49.05	-30 1.4	1.919	2.834	10.4	18.6
9 18	21 49.35	-11 34.7	1.254	2.184	13.2	19.8	9 18	21 41.65	-29 47.9	1.989	2.833	13.2	18.8
9 28	21 47.77	-12 12.3	1.345	2.208	17.0	20.1	9 28	21 36.66	-29 15.8	2.078	2.831	15.7	19.0
<b>85612</b>	1998 <i>HL</i> <sub>23</sub>		8 22.1 75°07'	4.3/26.2	18		<b>392364</b>	2010 <i>GD</i> <sub>118</sub>		8 22.1 168°15'	1.1/23.2	14 C	
7 20	22 26.04	+ 3 12.4	1.685	2.522	16.1	19.9	7 20	22 26.79	- 5 9.8	2.309	3.162	11.7	22.2
7 30	22 21.50	+ 2 41.9	1.626	2.537	12.7	19.7	7 30	22 21.70	- 5 52.7	2.235	3.166	8.8	22.0
8 9	22 15.09	+ 1 48.7	1.586	2.551	8.9	19.5	8 9	22 15.10	- 6 47.7	2.186	3.169	5.4	21.8
8 19	22 7.50	+ 0 35.8	1.571	2.565	5.4	19.4	8 19	22 7.53	- 7 51.3	2.164	3.173	1.9	21.6
8 29	21 59.66	- 0 51.1	1.582	2.580	4.5	19.3	8 29	21 59.68	- 8 58.6	2.171	3.175	2.4	21.7
9 8	21 52.57	- 2 23.7	1.620	2.594	7.2	19.5	9 8	21 52.34	-10 4.3	2.207	3.177	5.9	21.9
9 18	21 47.06	- 3 54.1	1.683	2.608	10.7	19.8	9 18	21 46.19	-11 3.9	2.270	3.179	9.2	22.1
9 28	21 43.73	- 5 15.3	1.770	2.623	14.0	20.0	9 28	21 41.77	-11 53.7	2.358	3.180	12.0	22.3
<b>135849</b>	2002 <i>SP</i> <sub>42</sub>		8 22.1 342°33'	0.8/22.7	18		<b>360922</b>	2005 <i>TO</i> <sub>25</sub>		8 22.1 319°84'	5.4/17.5	18	
7 20	22 26.74	- 7 58.2	1.705	2.583	14.0	20.0	7 20	22 28.51	-24 50.8	1.851	2.747	12.2	20.5
7 30	22 22.13	- 8 17.2	1.635	2.580	10.4	19.8	7 30	22 23.47	-25 41.7	1.783	2.735	9.2	20.3
8 9	22 15.54	- 8 48.3	1.587	2.576	6.3	19.5	8 9	22 16.35	-26 30.2	1.740	2.723	6.5	20.1
8 19	22 7.63	- 9 28.0	1.564	2.574	1.9	19.3	8 19	22 7.85	-27 9.8	1.721	2.712	5.5	20.0
8 29	21 59.35	-10 10.9	1.567	2.571	3.0	19.3	8 29	21 58.96	-27 34.1	1.728	2.701	7.2	20.1
9 8	21 51.74	-10 51.5	1.596	2.569	7.4	19.6	9 8	21 50.80	-27 39.4	1.761	2.690	10.3	20.2
9 18	21 45.71	-11 25.0	1.650	2.567	11.5	19.8	9 18	21 44.30	-27 24.9	1.817	2.680	13.4	20.4
9 28	21 41.95	-11 47.9	1.726	2.566	14.9	20.1	9 28	21 40.16	-26 51.9	1.892	2.670	16.2	20.6
<b>241753</b>	2001 <i>BC</i> <sub>43</sub>		8 22.1 149°49'	3.6/25.6	18		<b>325458</b>	2009 <i>QR</i> <sub>37</sub>		8 22.1 264°73'	1.1/23.3	18	
7 20	22 29.51	+ 1 17.4	2.459	3.276	12.2	21.1	7 20	22 23.56	- 5 0.8	2.365	3.222	11.3	20.5
7 30	22 23.53	+ 1 22.0	2.387	3.287	9.6	20.9	7 30	22 19.39	- 5 43.8	2.283	3.216	8.5	20.3
8 9	22 16.09	+ 1 13.0	2.338	3.297	6.8	20.7	8 9	22 13.79	- 6 39.2	2.225	3.209	5.3	20.1
8 19	22 7.73	+ 0 51.6	2.316	3.306	4.3	20.6	8 19	22 7.22	- 7 43.7	2.194	3.202	1.9	19.9
8 29	21 59.16	+ 0 20.1	2.322	3.315	3.8	20.6	8 29	22 0.35	- 8 52.7	2.191	3.195	2.4	19.9
9 8	21 51.11	- 0 17.8	2.357	3.323	5.8	20.7	9 8	21 53.89	-10 0.9	2.217	3.188	5.8	20.1
9 18	21 44.23	- 0 57.9	2.420	3.331	8.6	20.9	9 18	21 48.51	-11 3.6	2.269	3.181	9.0	20.3
9 28	21 39.06	- 1 36.3	2.507	3.338	11.1	21.1	9 28	21 44.75	-11 56.9	2.346	3.174	11.9	20.5
<b>482164</b>	2010 <i>TD</i> <sub>101</sub>		8 22.1 213°32'	3.6/18.2	18		<b>480690</b>	2015 <i>PP</i> <sub>93</sub>		8 22.1 15°25'	0.4/21.8	18	
7 20	22 28.92	-23 19.5	2.693	3.573	9.4	21.9	7 20	22 28.45	-11 36.5	1.820	2.701	13.1	21.0
7 30	22 23.13	-23 58.6	2.622	3.567	6.9	21.8	7 30	22 23.23	-11 50.6	1.754	2.702	9.6	20.8
8 9	22 15.88	-24 36.3	2.577	3.561	4.6	21.6	8 9	22 16.12	-12 12.4	1.711	2.704	5.6	20.6
8 19	22 7.69	-25 8.2	2.560	3.554	3.6	21.5	8 19	22 7.78	-12 38.2	1.694	2.705	1.3	20.3
8 29	21 59.25	-25 30.4	2.571	3.546	5.0	21.6	8 29	21 59.15	-13 3.2	1.704	2.707	3.2	20.4
9 8	21 51.32	-25 40.2	2.611	3.539	7.4	21.8	9 8	21 51.24	-13 23.2	1.741	2.709	7.3	20.7
9 18	21 44.55	-25 36.7	2.676	3.531	9.9	21.9	9 18	21 44.89	-13 35.0	1.802	2.711	11.1	20.9
9 28	21 39.47	-25 20.2	2.764	3.522	12.0	22.1	9 28	21 40.74	-13 36.7	1.886	2.714	14.3	21.2
<b>380233</b>	2001 <i>SE</i> <sub>188</sub>		8 22.1 300°41'	1.8/20.9	18		<b>311364</b>	2005 <i>SU</i> <sub>85</sub>		8 22.1 250°13'	4.2/18.2	18	
7 20	22 30.79	-14 45.2	1.464	2.358	14.9	20.9	7 20	22 29.66	-23 33.6	2.211	3.098	10.9	20.8
7 30	22 25.53	-15 4.2	1.389	2.344	11.0	20.6	7 30	22 23.94	-24 13.9	2.144	3.092	8.1	20.6
8 9	22 17.75	-15 30.2	1.335	2.330	6.4	20.4	8 9	22 16.46	-24 52.4	2.102	3.087	5.4	20.4
8 19	22 8.20	-15 57.6	1.306	2.316	2.1	20.0	8 19	22 7.86	-25 23.9	2.086	3.081	4.3	20.3
8 29	21 58.05	-16 20.2	1.302	2.302	4.6	20.2	8 29	21 58.98	-25 43.6	2.099	3.075	5.8	20.4
9 8	21 48.69	-16 32.6	1.323	2.288	9.5	20.4	9 8	21 50.74	-25 48.4	2.138	3.069	8.6	20.6
9 18	21 41.30	-16 31.8	1.367	2.275	14.0	20.7	9 18	21 43.93	-25 37.7	2.201	3.063	11.4	20.7
9 28	21 36.74	-16 16.6	1.431	2.262	17.9	20.9	9 28	21 39.15	-25 12.0	2.286	3.057	13.9	20.9
<b>78415</b>	2002 <i>QV</i> <sub>34</sub>		8 22.1 257°69'	1.8/20.5	18		<b>181569</b>	Leetypoon		8 22.1 72°15'	0.6/21.5	18	
7 20	22 28.07	-14 32.2	1.898	2.784	12.4	20.2	7 20	22 27.48	-11 36.8	1.976	2.855	12.3	20.7
7 30	22 22.97	-15 11.3	1.828	2.780	9.0	19.9	7 30	22 22.35	-12 5.7	1.917	2.864	8.9	20.5
8 9	22 15.98	-15 56.7	1.782	2.776	5.2	19.7	8 9	22 15.52	-12 42.1	1.881	2.873	5.1	20.3
8 19	22 7.73	-16 43.2	1.762	2.771	1.9	19.5	8 19	22 7.63	-13 21.7	1.872	2.883	1.2	20.0
8 29	21 59.14	-17 25.2	1.769	2.767	4.0	19.6	8 29	21 59.54	-13 59.8	1.890	2.892	3.1	20.2
9 8	21 51.20	-17 57.7	1.803	2.762	7.9	19.8	9 8	21 52.13	-14 31.8	1.936	2.902	6.9	20.5
9 18	21 44.75	-18 17.6	1.861	2.758	11.5	20.1	9 18	21 46.16	-14 54.5	2.007	2.911	10.4	20.7
9 28	21 40.47	-18 23.6	1.942	2.753	14.6	20.3	9 28	21 42.20	-15 6.2	2.101	2.921	13.3	20.9
<b>348319</b>	2005 <i>CH</i> <sub>2</sub>		8 22.1 172°91'	2.6/19.3	17		<b>187811</b>	1999 <i>TX</i> <sub>77</sub>		8 22.1 10°47'	4.3/25.8	18	
7 20	22 27.11	-15 40.9	2.115	3.000	11.4	21.1	7 20	22 22.30	+ 1 6.2	1.561	2.418	16.1	19.6
7 30	22 22.11	-16 58.5	2.050	3.002	8.2	20.9	7 30	22 18.97	+ 0 58.3	1.498	2.422	12.7	19.3
8 9	22 15.41	-18 21.9	2.011	3.004	4.8	20.7	8 9	22 13.73	+ 0 29.0	1.455	2.427	8.9	19.1
8 19	22 7.59	-19 44.9	1.999	3.005	2.6	20.6	8 19	22 7.23	- 0 19.5	1.435	2.432	5.3	19.0
8 29	21 59.47	-21 0.6	2.016	3.006	4.6	20.7	8 29	22 0.42	- 1 22.4	1.440	2.439	4.5	18.9
9 8	21 51.91	-22 3.5	2.060	3.007	7.9	20.9	9 8	21 54.31	- 2 32.3	1.470	2.447	7.4	19.1
9 18	21 45.70	-22 50.2	2.130	3.007	11.1	21.1	9 18	21 49.78	- 3 41.9	1.524	2.456	11.2	19.4
9 28	21 41.44	-23 19.4	2.222	3.007	13.8	21.3	9 28	21 47.46	- 4 44.4	1.600	2.466	14.6	19.6
<b>164874</b>	1999 <i>UL</i> <sub>37</sub>		8 22.1 107°27'	0.9/21.3	17 R		<b>380530</b>	2004 <i>GL</i> <sub>58</sub>		8 22			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>103516</b>	2000 <i>BY</i> <sub>4</sub>		8 22.1 263°71	0°3/21.9	18		<b>278324</b>	2007 <i>HX</i> <sub>51</sub>		8 22.1 12°30	6°0/27.0	16	
7 20	22 31.91	-12 5.3	2.062	2.932	12.3	19.1	7 20	22 21.08	+ 4 8.2	1.160	2.026	20.0	19.3
7 30	22 25.79	-12 10.2	1.969	2.912	9.0	18.9	7 30	22 18.59	+ 4 0.4	1.105	2.030	16.0	19.0
8 9	22 17.69	-12 21.3	1.901	2.891	5.3	18.6	8 9	22 13.72	+ 3 21.5	1.067	2.036	11.6	18.8
8 19	22 8.20	-12 35.5	1.859	2.870	1.2	18.3	8 19	22 7.27	+ 2 13.5	1.049	2.043	7.5	18.6
8 29	21 58.20	-12 49.1	1.846	2.849	3.1	18.4	8 29	22 0.43	+ 0 43.0	1.054	2.052	6.1	18.6
9 8	21 48.69	-12 58.2	1.861	2.827	7.2	18.6	9 8	21 54.52	- 0 58.9	1.082	2.062	9.0	18.7
9 18	21 40.58	-13 0.3	1.903	2.805	11.0	18.8	9 18	21 50.59	- 2 40.4	1.131	2.073	13.1	19.0
9 28	21 34.61	-12 53.7	1.967	2.782	14.3	19.0	9 28	21 49.38	- 4 11.1	1.201	2.086	17.1	19.3
<b>357907</b>	2005 <i>VB</i> <sub>94</sub>		8 22.1 159°50	4°3/17.7	18		<b>495021</b>	2010 <i>SH</i> <sub>15</sub>		8 22.1 231°55	8°0/20.3	17 C	
7 20	22 28.58	-24 8.6	2.394	3.279	10.2	21.1	7 20	22 46.67	-21 5.0	0.352	1.308	29.5	22.2
7 30	22 23.01	-24 57.7	2.335	3.282	7.6	21.0	7 30	22 41.27	-21 34.3	0.321	1.305	22.3	21.8
8 9	22 15.86	-25 44.7	2.302	3.285	5.2	20.8	8 9	22 28.87	-22 5.6	0.300	1.302	14.1	21.4
8 19	22 7.72	-26 24.5	2.296	3.287	4.3	20.8	8 19	22 11.11	-22 18.8	0.290	1.298	8.1	21.0
8 29	21 59.38	-26 52.5	2.318	3.289	5.7	20.9	8 29	21 52.01	-21 55.0	0.293	1.294	12.1	21.2
9 8	21 51.65	-27 5.8	2.366	3.291	8.2	21.0	9 8	21 36.26	-20 49.7	0.308	1.290	20.5	21.6
9 18	21 45.24	-27 3.6	2.440	3.293	10.8	21.2	9 18	21 26.84	-19 12.7	0.333	1.285	28.4	22.0
9 28	21 40.69	-26 46.6	2.535	3.294	13.0	21.4	9 28	21 24.72	-17 15.6	0.367	1.281	34.9	22.4
<b>157775</b>	2007 <i>FZ</i> <sub>1</sub>		8 22.1 280°00	4°5/17.3	18		<b>160445</b>	2005 <i>TU</i> <sub>78</sub>		8 22.1 322°07	7°2/14.2	18	
7 20	22 26.26	-23 1.2	2.223	3.115	10.6	19.9	7 20	22 26.74	-29 23.9	1.981	2.875	11.6	19.7
7 30	22 21.48	-24 10.5	2.163	3.114	7.9	19.7	7 30	22 22.16	-31 0.8	1.927	2.870	9.1	19.5
8 9	22 15.05	-25 19.3	2.128	3.113	5.4	19.5	8 9	22 15.60	-32 32.8	1.897	2.865	7.4	19.4
8 19	22 7.54	-26 21.5	2.120	3.112	4.5	19.5	8 19	22 7.70	-33 51.4	1.893	2.860	7.4	19.4
8 29	21 59.76	-27 11.4	2.140	3.111	6.1	19.6	8 29	21 59.44	-34 49.5	1.915	2.855	9.1	19.5
9 8	21 52.56	-27 45.0	2.185	3.110	8.8	19.8	9 8	21 51.85	-35 23.1	1.961	2.850	11.5	19.6
9 18	21 46.69	-28 0.8	2.255	3.109	11.5	19.9	9 18	21 45.84	-35 31.6	2.029	2.846	14.0	19.8
9 28	21 42.73	-27 58.9	2.346	3.108	13.8	20.1	9 28	21 42.10	-35 16.8	2.115	2.842	16.2	20.0
<b>523208</b>	2016 <i>VP</i> <sub>20</sub>		8 22.1 308°97	4°4/18.4	18		<b>385615</b>	2005 <i>GF</i> <sub>210</sub>		8 22.1 126°28	6°5/15.0	18	
7 20	22 30.00	-23 59.6	2.108	2.996	11.3	20.8	7 20	22 30.61	-29 50.5	2.251	3.135	10.9	21.5
7 30	22 24.28	-24 30.5	2.039	2.987	8.4	20.6	7 30	22 24.62	-31 16.7	2.212	3.149	8.5	21.4
8 9	22 16.71	-24 59.0	1.994	2.978	5.7	20.4	8 9	22 16.84	-32 36.2	2.199	3.163	6.8	21.3
8 19	22 7.94	-25 19.8	1.975	2.970	4.4	20.3	8 19	22 7.97	-33 42.2	2.212	3.176	6.6	21.3
8 29	21 58.88	-25 28.4	1.984	2.961	6.0	20.4	8 29	21 58.91	-34 28.9	2.251	3.189	8.0	21.4
9 8	21 50.50	-25 21.9	2.019	2.953	8.9	20.6	9 8	21 50.61	-34 53.8	2.317	3.202	10.2	21.6
9 18	21 43.63	-24 59.8	2.078	2.945	11.8	20.8	9 18	21 43.84	-34 57.1	2.405	3.214	12.3	21.8
9 28	21 38.88	-24 23.2	2.160	2.937	14.4	20.9	9 28	21 39.19	-34 40.9	2.514	3.225	14.2	22.0
<b>51378</b>	2001 <i>AT</i> <sub>33</sub>		8 22.1 282°72	5°0/30.3	18		<b>414413</b>	2009 <i>BT</i> <sub>150</sub>		8 22.1 158°55	3°2/24.3	17	
7 20	22 23.16	+14 35.4	4.405	5.116	8.8	18.9	7 20	22 31.14	- 2 45.1	1.435	2.299	17.0	20.7
7 30	22 18.54	+15 11.6	4.311	5.113	7.6	18.8	7 30	22 25.65	- 2 48.3	1.369	2.301	13.0	20.5
8 9	22 13.08	+15 36.5	4.240	5.109	6.4	18.7	8 9	22 17.75	- 3 10.3	1.324	2.303	8.6	20.2
8 19	22 7.06	+15 49.5	4.195	5.105	5.5	18.6	8 19	22 8.24	- 3 48.5	1.302	2.306	4.2	20.0
8 29	22 0.85	+15 50.8	4.176	5.101	5.0	18.6	8 29	21 58.29	- 4 37.9	1.305	2.307	4.1	20.0
9 8	21 54.84	+15 41.5	4.184	5.097	5.3	18.6	9 8	21 49.20	- 5 31.1	1.334	2.309	8.3	20.2
9 18	21 49.40	+15 23.4	4.220	5.093	6.1	18.6	9 18	21 42.07	- 6 21.4	1.387	2.310	12.7	20.5
9 28	21 44.87	+14 59.2	4.281	5.089	7.3	18.7	9 28	21 37.67	- 7 3.2	1.460	2.311	16.6	20.7
<b>43197</b>	2000 <i>AU</i> <sub>44</sub>		8 22.1 10°26	2°4/20.6	18		<b>442733</b>	2012 <i>VW</i> <sub>93</sub>		8 22.1 301°87	1°5/23.4	18	
7 20	22 25.38	-14 3.2	1.013	1.932	17.9	18.3	7 20	22 26.17	- 5 12.8	1.698	2.568	14.5	21.4
7 30	22 22.03	-14 41.5	0.967	1.934	12.9	18.0	7 30	22 21.80	- 5 40.0	1.621	2.560	10.9	21.2
8 9	22 15.83	-15 30.4	0.939	1.938	7.5	17.7	8 9	22 15.44	- 6 22.8	1.567	2.552	6.8	20.9
8 19	22 7.77	-16 21.7	0.932	1.943	2.6	17.5	8 19	22 7.69	- 7 17.7	1.537	2.545	2.6	20.6
8 29	21 59.34	-17 5.8	0.948	1.949	5.6	17.7	8 29	21 59.50	- 8 19.2	1.533	2.538	3.1	20.7
9 8	21 52.15	-17 34.8	0.985	1.957	11.0	18.0	9 8	21 51.92	- 9 20.4	1.556	2.530	7.4	20.9
9 18	21 47.41	-17 45.0	1.042	1.966	15.9	18.3	9 18	21 45.88	-10 15.3	1.604	2.523	11.5	21.1
9 28	21 45.87	-17 35.3	1.117	1.976	20.0	18.6	9 28	21 42.11	-10 59.2	1.673	2.517	15.1	21.4
<b>100811</b>	1998 <i>FB</i> <sub>120</sub>		8 22.1 119°22	1°7/20.8	17		<b>150081</b>	2006 <i>UH</i> <sub>109</sub>		8 22.1 46°96	2°6/20.5	17	
7 20	22 32.40	-13 13.8	1.622	2.505	14.3	20.2	7 20	22 31.80	-15 33.4	1.174	2.079	17.0	19.9
7 30	22 26.20	-14 2.4	1.570	2.520	10.3	19.9	7 30	22 26.25	-16 6.5	1.136	2.096	12.3	19.7
8 9	22 17.87	-14 58.8	1.542	2.535	5.9	19.7	8 9	22 18.05	-16 45.7	1.118	2.113	7.1	19.5
8 19	22 8.22	-15 56.5	1.539	2.549	1.9	19.5	8 19	22 8.28	-17 23.6	1.122	2.132	2.7	19.3
8 29	21 58.36	-16 48.6	1.564	2.563	4.2	19.7	8 29	21 58.40	-17 52.5	1.151	2.150	5.4	19.5
9 8	21 49.45	-17 29.2	1.615	2.576	8.5	20.0	9 8	21 49.89	-18 7.0	1.204	2.170	10.2	19.8
9 18	21 42.44	-17 55.3	1.691	2.588	12.4	20.2	9 18	21 43.82	-18 5.3	1.279	2.189	14.6	20.2
9 28	21 37.94	-18 5.8	1.788	2.600	15.6	20.5	9 28	21 40.81	-17 47.5	1.372	2.209	18.2	20.5
<b>46696</b>	1997 <i>CF</i> <sub>20</sub>		8 22.1 182°53	1°4/21.1	18		<b>493589</b>	2015 <i>MS</i> <sub>21</sub>		8 22.1 47°51	3°4/24.6	16	
7 20	22 32.79	-13 53.2	1.614	2.498	14.3	19.3	7 20	22 28.36	- 2 19.1	1.538	2.400	16.1	20.6
7 30	22 26.65	-14 15.7	1.548	2.499	10.4	19.1	7 30	22 23.35	- 2 14.8	1.482	2.412	12.4	20.4
8 9	22 18.24	-14 44.9	1.506	2.499	6.0	18.8	8 9	22 16.26	- 2 27.9	1.447	2.425	8.2	20.2
8 19	22 8.33	-15 15.7	1.488	2.499	1.7	18.6	8 19	22 7.87	- 2 56.2	1.436	2.438	4.3	20.0
8 29	21 58.06	-15 42.4	1.498	2.498	4.1	18.7	8 29	21 59.24	- 3 35.0	1.450	2.451	4.0	20.0
9 8	21 48.65	-16 0.0	1.534	2.498	8.6	19.0	9 8	21 51.47	- 4 18.4	1.490	2.465	7.6	20.3
9 18	21 41.14	-16 5.9	1.594	2.497	12.7	19.2	9 18	21 45.49	- 5 0.4	1.554	2.479	11.5	20.5
9 28	21 36.23	-15 59.0	1.675	2.495	16.2	19.5	9 28	21 41.92	- 5 36.0	1.640	2.494	14.9	20.8
<b>309705</b>	2008 <i>FR</i> <sub>137</sub>		8 22.1 273°95	5°2/17.2	18		<b>9924</b>	Corrigan		8			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>445814</b>	2012 <i>BO</i> <sub>112</sub>		8 22.1 269°10	0°4/22.4	18		<b>316428</b>	2010 <i>TY</i> <sub>152</sub>		8 22.1 243°47	0°2/21.9	18	
7 20	22 27.79	- 9 38.2	2.296	3.162	11.3	21.2	7 20	22 25.50	- 9 52.6	2.351	3.220	11.0	21.6
7 30	22 22.54	- 9 45.8	2.211	3.151	8.4	21.0	7 30	22 20.85	-10 30.3	2.270	3.213	8.0	21.4
8 9	22 15.69	-10 1.0	2.150	3.139	5.0	20.8	8 9	22 14.70	-11 16.7	2.214	3.205	4.7	21.2
8 19	22 7.75	-10 21.1	2.116	3.127	1.4	20.5	8 19	22 7.53	-12 8.1	2.186	3.196	1.1	20.9
8 29	21 59.46	-10 42.7	2.111	3.114	2.5	20.6	8 29	22 0.05	-13 0.0	2.185	3.188	2.6	21.0
9 8	21 51.64	-11 2.4	2.133	3.102	6.2	20.8	9 8	21 53.01	-13 47.7	2.213	3.179	6.2	21.2
9 18	21 45.01	-11 17.1	2.183	3.090	9.5	21.0	9 18	21 47.10	-14 27.7	2.268	3.171	9.4	21.4
9 28	21 40.18	-11 24.7	2.255	3.078	12.5	21.1	9 28	21 42.88	-14 57.2	2.346	3.162	12.3	21.6
<b>59605</b>	1999 <i>JZ</i> <sub>64</sub>		8 22.1 55°04	4°9/18.7	18		<b>401299</b>	2012 <i>GF</i> <sub>34</sub>		8 22.1 207°15	3°5/26.4	18	
7 20	22 30.64	-19 9.9	1.231	2.139	16.1	18.1	7 20	22 24.00	+ 3 10.9	2.820	3.631	11.0	21.5
7 30	22 25.54	-20 22.7	1.187	2.148	11.7	17.8	7 30	22 19.53	+ 2 59.2	2.733	3.627	8.8	21.4
8 9	22 17.74	-21 38.9	1.164	2.158	7.3	17.6	8 9	22 13.82	+ 2 33.9	2.669	3.623	6.4	21.2
8 19	22 8.25	-22 48.2	1.165	2.168	4.9	17.5	8 19	22 7.31	+ 1 55.8	2.631	3.618	4.2	21.1
8 29	21 58.47	-23 40.9	1.189	2.177	7.4	17.7	8 29	22 0.55	+ 1 7.6	2.622	3.613	3.6	21.0
9 8	21 49.92	-24 10.9	1.238	2.188	11.7	18.0	9 8	21 54.14	+ 0 12.8	2.641	3.608	5.2	21.1
9 18	21 43.74	-24 16.7	1.307	2.198	15.7	18.3	9 18	21 48.62	- 0 44.5	2.688	3.603	7.6	21.3
9 28	21 40.63	-23 59.9	1.394	2.208	19.2	18.5	9 28	21 44.49	- 1 40.0	2.760	3.597	10.0	21.4
<b>99148</b>	2001 <i>FO</i> <sub>121</sub>		8 22.1 301°46	8°5/15.3	18		<b>376964</b>	2002 <i>HD</i>		8 22.1 184°99	10°1/ 8.2	17	
7 20	22 34.10	-33 17.9	1.785	2.670	13.2	18.9	7 20	22 41.05	-49 23.4	2.785	3.594	11.2	22.6
7 30	22 27.65	-34 21.8	1.735	2.668	10.7	18.7	7 30	22 32.49	-50 50.0	2.752	3.594	10.4	22.5
8 9	22 18.82	-35 15.0	1.708	2.667	8.9	18.6	8 9	22 21.59	-51 59.2	2.743	3.594	10.1	22.5
8 19	22 8.50	-35 49.3	1.706	2.666	8.6	18.6	8 19	22 9.19	-52 44.4	2.758	3.592	10.5	22.5
8 29	21 57.92	-35 58.6	1.728	2.664	10.1	18.7	8 29	21 56.48	-53 1.5	2.796	3.590	11.3	22.6
9 8	21 48.39	-35 41.0	1.774	2.663	12.5	18.8	9 8	21 44.73	-52 50.2	2.855	3.587	12.4	22.7
9 18	21 40.93	-34 58.5	1.842	2.662	15.1	19.0	9 18	21 34.99	-52 13.2	2.934	3.583	13.6	22.8
9 28	21 36.24	-33 55.1	1.928	2.661	17.4	19.2	9 28	21 27.97	-51 14.9	3.028	3.578	14.6	22.9
<b>7119</b>	<i>Hiera</i>		8 22.1 299°36	3°8/28.3	18		<b>72659</b>	2001 <i>FV</i> <sub>46</sub>		8 22.1 125°36	2°9/25.6	18	
7 20	22 20.92	+ 7 54.4	4.174	4.943	8.4	16.9	7 20	22 24.25	+ 0 49.7	2.564	3.391	11.5	19.3
7 30	22 16.96	+ 8 11.5	4.080	4.935	7.0	16.7	7 30	22 19.75	+ 0 31.1	2.490	3.398	9.0	19.1
8 9	22 12.19	+ 8 18.4	4.008	4.928	5.5	16.6	8 9	22 13.96	- 0 1.2	2.440	3.405	6.2	19.0
8 19	22 6.89	+ 8 15.3	3.963	4.920	4.3	16.5	8 19	22 7.35	- 0 45.3	2.416	3.411	3.7	18.8
8 29	22 1.42	+ 8 2.9	3.946	4.912	3.8	16.5	8 29	22 0.52	- 1 38.2	2.420	3.418	3.2	18.8
9 8	21 56.15	+ 7 42.8	3.957	4.905	4.4	16.5	9 8	21 54.14	- 2 35.4	2.453	3.424	5.3	19.0
9 18	21 51.46	+ 7 17.2	3.996	4.898	5.7	16.6	9 18	21 48.78	- 3 32.6	2.513	3.430	8.0	19.1
9 28	21 47.67	+ 6 48.4	4.060	4.890	7.2	16.7	9 28	21 44.92	- 4 25.8	2.598	3.436	10.6	19.3
<b>444292</b>	2005 <i>UJ</i> <sub>511</sub>		8 22.1 276°60	4°7/26.7	15		<b>434891</b>	2006 <i>SN</i> <sub>398</sub>		8 22.1 304°59	7°7/19.0	18	
7 20	22 25.00	+ 4 8.5	2.237	3.053	13.3	22.0	7 20	22 43.92	-28 55.2	1.319	2.208	16.6	20.9
7 30	22 20.56	+ 4 12.2	2.150	3.045	10.8	21.9	7 30	22 36.01	-29 4.5	1.233	2.177	13.0	20.6
8 9	22 14.56	+ 3 58.8	2.085	3.036	8.0	21.7	8 9	22 24.37	-29 2.8	1.168	2.147	9.5	20.3
8 19	22 7.49	+ 3 28.8	2.044	3.028	5.5	21.5	8 19	22 9.98	-28 39.7	1.126	2.117	7.7	20.1
8 29	22 0.06	+ 2 44.6	2.031	3.020	4.7	21.4	8 29	21 54.61	-27 47.5	1.110	2.087	9.7	20.2
9 8	21 53.05	+ 1 50.5	2.044	3.011	6.5	21.5	9 8	21 40.35	-26 24.4	1.118	2.057	13.8	20.3
9 18	21 47.19	+ 0 51.7	2.084	3.003	9.3	21.7	9 18	21 28.99	-24 35.1	1.148	2.027	18.3	20.5
9 28	21 43.07	- 0 6.4	2.148	2.994	12.1	21.9	9 28	21 21.65	-22 27.4	1.197	1.998	22.4	20.7
<b>187353</b>	2005 <i>UW</i> <sub>215</sub>		8 22.1 124°94	4°3/27.1	18		<b>330308</b>	2006 <i>TO</i> <sub>128</sub>		8 22.1 179°09	4°1/19.1	17	
7 20	22 24.80	+ 5 3.5	2.421	3.228	12.7	20.2	7 20	22 32.76	-19 44.0	1.615	2.508	13.8	21.4
7 30	22 20.22	+ 4 52.8	2.347	3.236	10.2	20.1	7 30	22 26.70	-20 35.2	1.555	2.509	10.1	21.2
8 9	22 14.26	+ 4 25.2	2.295	3.243	7.6	19.9	8 9	22 18.32	-21 28.4	1.518	2.509	6.3	21.0
8 19	22 7.41	+ 3 41.9	2.268	3.250	5.2	19.8	8 19	22 8.42	-22 16.3	1.507	2.509	4.1	20.9
8 29	22 0.33	+ 2 45.9	2.269	3.257	4.4	19.7	8 29	21 58.18	-22 51.7	1.522	2.509	6.2	21.0
9 8	21 53.72	+ 1 41.6	2.298	3.264	6.0	19.8	9 8	21 48.84	-23 10.0	1.562	2.509	10.0	21.2
9 18	21 48.21	+ 0 34.3	2.353	3.271	8.5	20.0	9 18	21 41.46	-23 9.6	1.627	2.508	13.7	21.4
9 28	21 44.29	- 0 30.9	2.434	3.277	11.0	20.2	9 28	21 36.74	-22 51.3	1.711	2.507	16.9	21.7
<b>350124</b>	2011 <i>QR</i> <sub>68</sub>		8 22.1 322°92	6°2/25.8	18		<b>235661</b>	2004 <i>RB</i> <sub>221</sub>		8 22.1 263°41	0°2/21.9	18	R
7 20	22 30.67	+ 2 1.1	1.693	2.527	16.1	20.4	7 20	22 32.96	-12 10.0	1.817	2.692	13.4	19.8
7 30	22 25.17	+ 3 0.4	1.612	2.518	13.1	20.2	7 30	22 26.72	-12 7.1	1.735	2.679	9.9	19.6
8 9	22 17.47	+ 3 43.6	1.552	2.508	9.8	20.0	8 9	22 18.33	-12 10.6	1.676	2.667	5.8	19.3
8 19	22 8.23	+ 4 9.0	1.515	2.499	6.9	19.8	8 19	22 8.45	-12 17.2	1.644	2.654	1.4	19.0
8 29	21 58.44	+ 4 16.7	1.504	2.491	6.3	19.8	8 29	21 58.09	-12 23.1	1.639	2.642	3.2	19.1
9 8	21 49.24	+ 4 9.8	1.518	2.482	8.6	19.9	9 8	21 48.38	-12 24.7	1.661	2.629	7.7	19.3
9 18	21 41.67	+ 3 52.6	1.557	2.475	12.0	20.1	9 18	21 40.31	-12 19.4	1.709	2.615	11.8	19.6
9 28	21 36.52	+ 3 31.0	1.618	2.467	15.3	20.2	9 28	21 34.65	-12 5.7	1.779	2.602	15.2	19.8
<b>506617</b>	2006 <i>DH</i> <sub>118</sub>		8 22.1 139°25	0°7/22.8	18		<b>166509</b>	2002 <i>QO</i> <sub>35</sub>		8 22.1 295°28	1°0/21.1	18	
7 20	22 28.04	- 6 34.1	2.121	2.980	12.4	21.6	7 20	22 25.06	-10 24.9	1.780	2.664	13.2	19.6
7 30	22 22.70	- 7 14.4	2.056	2.991	9.1	21.5	7 30	22 21.05	-11 28.6	1.697	2.648	9.6	19.4
8 9	22 15.75	- 8 6.2	2.015	3.001	5.5	21.3	8 9	22 15.06	-12 45.3	1.637	2.631	5.6	19.1
8 19	22 7.77	- 9 5.6	2.001	3.011	1.7	21.0	8 19	22 7.67	-14 9.5	1.603	2.614	1.4	18.8
8 29	21 59.56	-10 7.3	2.016	3.020	2.6	21.1	8 29	21 59.76	-15 33.6	1.597	2.598	3.8	18.9
9 8	21 51.96	-11 6.1	2.059	3.028	6.3	21.4	9 8	21 52.35	-16 49.8	1.616	2.581	8.2	19.2
9 18	21 45.69	-11 57.4	2.128	3.036	9.7	21.6	9 18	21 46.39	-17 52.2	1.661	2.565	12.2	19.4
9 28	21 41.30	-12 38.0	2.221	3.044	12.6	21.8	9 28	21 42.63	-18 37.3	1.727	2.549	15.7	19.6
<b>119906</b>	2002 <i>EO</i> <sub>10</sub>		8 22.1 144°31	6°6/15.2	18		<b>439395</b>	2013 <i>AZ</i> <sub>150</sub>		8 22.1			

EPHEMERIDES

8 22.1

8 22.1

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>443680</b>	2015 <i>KZ</i> <sub>13</sub>		8 22.1 66°71	0°2/21.9	17		<b>266991</b>	2010 <i>XX</i> <sub>37</sub>		8 22.1 94°23	1°7/23.3	17	
7 20	22 25.85	- 8 10.0	1.730	2.608	13.8	21.0	7 20	22 31.86	- 6 33.9	1.552	2.422	15.6	20.6
7 30	22 21.49	- 9 12.7	1.665	2.611	10.1	20.7	7 30	22 25.94	- 6 36.0	1.494	2.433	11.6	20.4
8 9	22 15.22	-10 29.3	1.623	2.614	5.9	20.5	8 9	22 17.83	- 6 51.5	1.458	2.443	7.2	20.2
8 19	22 7.69	-11 53.9	1.606	2.617	1.4	20.2	8 19	22 8.33	- 7 17.1	1.445	2.454	2.7	19.9
8 29	21 59.81	-13 18.9	1.617	2.620	3.3	20.4	8 29	21 58.56	- 7 48.1	1.460	2.464	3.3	20.0
9 8	21 52.61	-14 36.8	1.654	2.623	7.6	20.6	9 8	21 49.71	- 8 18.8	1.501	2.474	7.7	20.3
9 18	21 46.94	-15 41.7	1.717	2.626	11.6	20.9	9 18	21 42.74	- 8 44.7	1.566	2.484	11.9	20.6
9 28	21 43.47	-16 30.2	1.802	2.629	14.9	21.1	9 28	21 38.33	- 9 2.3	1.652	2.494	15.4	20.8
<b>109534</b>	2001 <i>QF</i> <sub>250</sub>		8 22.1 288°17	8°9/16.6	18		<b>52978</b>	1998 <i>UH</i> <sub>7</sub>		8 22.1 280°86	2°6/20.0	18	
7 20	22 41.89	-33 2.4	1.624	2.503	14.6	18.8	7 20	22 28.29	-14 30.2	1.540	2.435	14.3	19.2
7 30	22 33.99	-33 44.6	1.542	2.474	11.9	18.5	7 30	22 23.70	-15 31.8	1.465	2.421	10.4	18.9
8 9	22 22.92	-34 15.7	1.483	2.445	9.6	18.3	8 9	22 16.75	-16 43.4	1.412	2.407	6.1	18.6
8 19	22 9.60	-34 25.7	1.447	2.416	9.0	18.2	8 19	22 8.12	-17 57.8	1.384	2.392	2.6	18.4
8 29	21 55.53	-34 6.6	1.437	2.386	10.7	18.3	8 29	21 58.90	-19 6.3	1.382	2.378	5.2	18.5
9 8	21 42.47	-33 15.9	1.451	2.356	13.8	18.4	9 8	21 50.35	-20 1.2	1.405	2.364	9.8	18.7
9 18	21 31.88	-31 56.4	1.488	2.326	17.1	18.5	9 18	21 43.59	-20 37.9	1.451	2.349	14.0	19.0
9 28	21 24.75	-30 14.4	1.543	2.296	20.2	18.7	9 28	21 39.46	-20 54.3	1.518	2.335	17.7	19.2
<b>474523</b>	2003 <i>UG</i> <sub>279</sub>		8 22.1 298°01	6°2/16.9	18		<b>49203</b>	1998 <i>SW</i> <sub>115</sub>		8 22.1 71°67	0°8/22.7	18	R
7 20	22 29.96	-24 48.5	1.675	2.574	13.1	20.7	7 20	22 30.72	- 7 54.0	1.424	2.304	16.1	18.7
7 30	22 24.95	-25 55.5	1.597	2.549	10.0	20.5	7 30	22 25.20	- 8 14.7	1.373	2.318	11.9	18.4
8 9	22 17.50	-27 2.3	1.541	2.524	7.2	20.3	8 9	22 17.42	- 8 49.0	1.343	2.333	7.1	18.2
8 19	22 8.29	-28 0.1	1.510	2.500	6.2	20.2	8 19	22 8.23	- 9 32.2	1.338	2.348	2.1	17.9
8 29	21 58.43	-28 40.7	1.505	2.475	8.3	20.2	8 29	21 58.82	-10 17.9	1.358	2.362	3.4	18.1
9 8	21 49.22	-28 58.6	1.524	2.451	11.7	20.4	9 8	21 50.42	-10 59.5	1.404	2.377	8.2	18.4
9 18	21 41.82	-28 52.1	1.565	2.426	15.3	20.5	9 18	21 44.03	-11 32.1	1.473	2.392	12.5	18.7
9 28	21 37.12	-28 22.6	1.624	2.402	18.4	20.7	9 28	21 40.29	-11 52.6	1.564	2.406	16.1	18.9
<b>134882</b>	2000 <i>RH</i> <sub>31</sub>		8 22.1 352°47	5°8/25.2	18		<b>257733</b>	1999 <i>YH</i> <sub>12</sub>		8 22.1 175°16	3°9/17.7	18	
7 20	22 22.90	- 1 33.6	0.905	1.805	21.3	18.0	7 20	22 26.38	-22 21.5	2.422	3.311	10.0	20.3
7 30	22 20.59	- 0 51.5	0.847	1.796	16.8	17.7	7 30	22 21.48	-23 24.7	2.362	3.311	7.4	20.1
8 9	22 15.27	- 0 34.5	0.804	1.788	11.8	17.4	8 9	22 15.06	-24 27.7	2.326	3.312	4.9	19.9
8 19	22 7.79	- 0 43.4	0.781	1.782	7.1	17.1	8 19	22 7.66	-25 25.1	2.318	3.312	4.0	19.9
8 29	21 59.62	- 1 14.4	0.777	1.778	6.3	17.1	8 29	22 0.01	-26 11.7	2.339	3.312	5.5	20.0
9 8	21 52.50	- 1 59.2	0.793	1.776	10.6	17.3	9 8	21 52.89	-26 44.0	2.386	3.313	8.0	20.2
9 18	21 47.87	- 2 47.8	0.828	1.776	15.8	17.6	9 18	21 47.00	-27 0.5	2.458	3.313	10.6	20.3
9 28	21 46.71	- 3 30.7	0.880	1.778	20.5	17.9	9 28	21 42.86	-27 1.1	2.551	3.313	12.9	20.5
<b>206126</b>	2002 <i>SK</i> <sub>9</sub>		8 22.1 352°88	2°0/20.6	18		<b>78368</b>	2002 <i>PB</i> <sub>119</sub>		8 22.1 349°60	2°5/24.1	18	
7 20	22 27.91	-15 1.9	1.596	2.491	13.9	19.9	7 20	22 27.10	- 3 59.0	1.666	2.531	14.9	19.1
7 30	22 23.16	-15 33.1	1.532	2.488	10.1	19.7	7 30	22 22.49	- 4 1.1	1.595	2.529	11.4	18.8
8 9	22 16.27	-16 10.7	1.491	2.485	5.8	19.4	8 9	22 15.86	- 4 18.5	1.545	2.526	7.4	18.6
8 19	22 7.96	-16 49.0	1.474	2.484	2.2	19.2	8 19	22 7.88	- 4 48.9	1.520	2.525	3.5	18.4
8 29	21 59.29	-17 21.8	1.483	2.482	4.5	19.3	8 29	21 59.51	- 5 27.9	1.520	2.523	3.4	18.4
9 8	21 51.42	-17 44.0	1.518	2.481	8.7	19.6	9 8	21 51.81	- 6 9.9	1.547	2.522	7.3	18.6
9 18	21 45.32	-17 52.7	1.577	2.481	12.7	19.8	9 18	21 45.72	- 6 49.4	1.598	2.521	11.3	18.8
9 28	21 41.66	-17 46.8	1.656	2.481	16.1	20.0	9 28	21 41.92	- 7 21.8	1.671	2.521	14.9	19.1
<b>224163</b>	2005 <i>QW</i> <sub>89</sub>		8 22.1 315°81	0°8/22.7	18		<b>139304</b>	2001 <i>KR</i> <sub>17</sub>		8 22.1 57°80	6°1/26.9	17	
7 20	22 25.52	- 7 32.5	1.281	2.174	16.7	20.2	7 20	22 28.66	+ 4 32.9	1.319	2.162	19.3	20.2
7 30	22 22.09	- 7 56.5	1.197	2.150	12.6	19.9	7 30	22 23.79	+ 4 35.9	1.271	2.183	15.4	20.0
8 9	22 16.03	- 8 38.6	1.133	2.126	7.7	19.6	8 9	22 16.63	+ 4 11.6	1.242	2.203	11.2	19.8
8 19	22 7.98	- 9 34.8	1.092	2.102	2.3	19.2	8 19	22 8.05	+ 3 21.7	1.235	2.224	7.4	19.6
8 29	21 59.11	-10 38.0	1.074	2.079	3.8	19.2	8 29	21 59.25	+ 2 11.9	1.252	2.245	6.2	19.6
9 8	21 50.85	-11 39.2	1.080	2.057	9.5	19.5	9 8	21 51.51	+ 0 51.2	1.293	2.266	8.7	19.8
9 18	21 44.52	-12 30.5	1.108	2.036	14.8	19.7	9 18	21 45.79	+ 0 30.9	1.358	2.288	12.4	20.1
9 28	21 41.16	-13 6.2	1.155	2.015	19.4	19.9	9 28	21 42.75	- 1 46.1	1.444	2.309	15.9	20.4
<b>476252</b>	2007 <i>VG</i> <sub>91</sub>		8 22.1 232°51	4°2/26.3	18		<b>363330</b>	2002 <i>PQ</i> <sub>145</sub>		8 22.1 216°80	0°0/22.5	17	
7 20	22 26.91	+ 3 17.5	2.348	3.162	12.8	21.9	7 20	22 7.49	-10 36.4	44.723	45.582	0.7	22.2
7 30	22 21.93	+ 3 15.6	2.255	3.151	10.3	21.7	7 30	22 6.88	-10 39.8	44.645	45.581	0.5	22.1
8 9	22 15.38	+ 2 57.6	2.185	3.139	7.5	21.5	8 9	22 6.21	-10 43.5	44.593	45.581	0.3	22.1
8 19	22 7.75	+ 2 24.1	2.140	3.127	5.0	21.3	8 19	22 5.51	-10 47.5	44.570	45.580	0.1	22.1
8 29	21 59.72	+ 1 37.7	2.123	3.115	4.3	21.3	8 29	22 4.80	-10 51.5	44.576	45.580	0.1	22.1
9 8	21 52.08	+ 0 42.4	2.134	3.102	6.3	21.4	9 8	22 4.11	-10 55.4	44.611	45.579	0.4	22.1
9 18	21 45.55	- 0 16.6	2.172	3.088	9.2	21.5	9 18	22 3.46	-10 59.1	44.675	45.578	0.6	22.2
9 28	21 40.73	- 1 14.2	2.235	3.074	12.0	21.7	9 28	22 2.88	-11 2.5	44.765	45.578	0.7	22.2
<b>275303</b>	2010 <i>PZ</i> <sub>27</sub>		8 22.1 227°71	5°2/15.9	18		<b>470893</b>	2009 <i>BQ</i> <sub>175</sub>		8 22.1 280°94	3°3/18.7	18	
7 20	22 29.77	-29 44.8	2.824	3.700	9.1	21.6	7 20	22 26.11	-16 6.4	1.849	2.742	12.4	20.9
7 30	22 23.85	-30 35.7	2.755	3.690	7.2	21.5	7 30	22 21.85	-17 38.5	1.768	2.723	9.0	20.6
8 9	22 16.40	-31 21.7	2.712	3.678	5.6	21.3	8 9	22 15.58	-19 19.8	1.711	2.704	5.4	20.4
8 19	22 7.97	-31 58.0	2.697	3.667	5.3	21.3	8 19	22 7.85	-21 2.7	1.680	2.685	3.4	20.2
8 29	21 59.28	-32 20.4	2.709	3.655	6.5	21.4	8 29	21 59.55	-22 38.1	1.677	2.665	5.7	20.3
9 8	21 51.08	-32 26.6	2.749	3.642	8.4	21.5	9 8	21 51.72	-23 58.3	1.701	2.646	9.5	20.5
9 18	21 44.06	-32 16.3	2.812	3.629	10.5	21.6	9 18	21 45.34	-24 58.3	1.749	2.626	13.2	20.7
9 28	21 38.78	-31 50.5	2.898	3.616	12.4	21.7	9 28	21 41.19	-25 36.0	1.818	2.606	16.3	20.9
<b>270449</b>	2002 <i>CT</i> <sub>175</sub>		8 22.1 86°03	0°5/21.8	17		<b>479071</b>						

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>195129</b>	2002 <i>CJ</i> <sub>159</sub>		8 22.1 103°77	1°6/20.7	18		<b>255081</b>	2005 <i>UG</i> <sub>36</sub>		8 22.1 65°34	3°2/25.3	18	
7 20	22 28.04	-12 48.4	1.735	2.621	13.4	19.8	7 20	22 25.68	-0 18.0	2.077	2.918	13.3	20.5
7 30	22 23.07	-13 46.5	1.676	2.628	9.7	19.6	7 30	22 21.05	-0 28.0	2.011	2.928	10.3	20.3
8 9	22 16.14	-14 53.3	1.641	2.634	5.5	19.3	8 9	22 14.85	-0 53.4	1.968	2.938	7.0	20.1
8 19	22 7.95	-16 2.5	1.631	2.641	1.8	19.1	8 19	22 7.66	-1 32.2	1.950	2.948	4.0	20.0
8 29	21 59.47	-17 7.0	1.649	2.647	4.1	19.3	8 29	22 0.24	-2 20.6	1.959	2.958	3.5	20.0
9 8	21 51.74	-18 0.5	1.693	2.654	8.2	19.5	9 8	21 53.40	-3 13.5	1.995	2.968	6.2	20.1
9 18	21 45.64	-18 39.2	1.761	2.660	11.9	19.8	9 18	21 47.85	-4 5.9	2.058	2.978	9.3	20.4
9 28	21 41.80	-19 1.4	1.851	2.666	15.1	20.0	9 28	21 44.12	-4 53.3	2.144	2.989	12.2	20.6
<b>84179</b>	2002 <i>RR</i> <sub>105</sub>		8 22.1 254°48	5°2/27.6	18		<b>314372</b>	2005 <i>UO</i> <sub>46</sub>		8 22.1 185°39	8°2/3.4	18	
7 20	22 25.18	+6 39.6	2.175	2.979	14.0	19.7	7 20	22 25.07	+22 21.8	2.988	3.654	13.3	22.1
7 30	22 20.80	+6 30.2	2.083	2.968	11.5	19.5	7 30	22 20.37	+22 40.5	2.899	3.654	12.0	21.9
8 9	22 14.79	+6 0.5	2.012	2.956	8.7	19.3	8 9	22 14.39	+22 38.3	2.828	3.654	10.5	21.8
8 19	22 7.64	+5 11.0	1.965	2.944	6.2	19.1	8 19	22 7.57	+22 13.8	2.778	3.653	9.2	21.7
8 29	22 0.08	+4 4.2	1.945	2.931	5.3	19.0	8 29	22 0.46	+21 27.3	2.753	3.651	8.4	21.7
9 8	21 52.92	+2 45.6	1.953	2.919	6.9	19.1	9 8	21 53.71	+20 21.3	2.753	3.649	8.3	21.7
9 18	21 46.92	+1 21.4	1.986	2.906	9.7	19.2	9 18	21 47.90	+19 0.2	2.779	3.647	9.1	21.7
9 28	21 42.73	-0 1.5	2.045	2.893	12.6	19.4	9 28	21 43.51	+17 29.7	2.829	3.644	10.4	21.8
<b>244494</b>	2002 <i>TB</i> <sub>63</sub>		8 22.1 345°44	3°0/24.7	18		<b>298279</b>	2002 <i>XV</i> <sub>66</sub>		8 22.1 297°10	4°2/25.4	18	
7 20	22 26.50	-1 46.4	1.828	2.681	14.3	20.7	7 20	22 26.86	+0 22.4	1.857	2.700	14.6	20.3
7 30	22 21.91	-1 54.1	1.754	2.679	11.1	20.5	7 30	22 22.37	+0 33.0	1.762	2.678	11.6	20.1
8 9	22 15.47	-2 18.1	1.703	2.678	7.4	20.2	8 9	22 15.90	+0 26.8	1.688	2.656	8.2	19.8
8 19	22 7.80	-2 56.2	1.676	2.677	3.9	20.0	8 19	22 7.99	+0 4.1	1.638	2.634	5.1	19.6
8 29	21 59.77	-3 44.4	1.675	2.676	3.6	20.0	8 29	21 59.48	-0 32.6	1.615	2.612	4.5	19.5
9 8	21 52.34	-4 37.0	1.701	2.676	6.9	20.2	9 8	21 51.39	-1 18.5	1.617	2.590	7.4	19.6
9 18	21 46.36	-5 28.3	1.753	2.675	10.6	20.4	9 18	21 44.66	-2 8.0	1.645	2.568	11.1	19.8
9 28	21 42.48	-6 13.3	1.827	2.675	13.9	20.6	9 28	21 40.06	-2 55.2	1.695	2.546	14.6	20.0
<b>80852</b>	2000 <i>DF</i> <sub>21</sub>		8 22.1 309°04	0°3/22.3	18		<b>479227</b>	2013 <i>CT</i> <sub>188</sub>		8 22.1 227°85	0°8/21.5	18	
7 20	22 26.38	-8 22.7	1.313	2.205	16.4	19.6	7 20	22 30.26	-13 24.9	2.156	3.030	11.6	21.7
7 30	22 22.67	-8 55.1	1.230	2.183	12.3	19.3	7 30	22 24.43	-13 35.5	2.081	3.026	8.5	21.5
8 9	22 16.36	-9 44.9	1.168	2.161	7.4	18.9	8 9	22 16.87	-13 51.0	2.031	3.022	4.9	21.3
8 19	22 8.09	-10 47.4	1.129	2.140	1.9	18.5	8 19	22 8.18	-14 8.2	2.007	3.018	1.3	21.0
8 29	21 59.03	-11 54.8	1.114	2.119	3.9	18.6	8 29	21 59.20	-14 23.3	2.012	3.013	3.1	21.1
9 8	21 50.59	-12 58.2	1.123	2.098	9.5	18.9	9 8	21 50.80	-14 32.8	2.045	3.008	6.8	21.4
9 18	21 44.08	-13 49.8	1.154	2.078	14.7	19.1	9 18	21 43.77	-14 34.7	2.104	3.004	10.2	21.6
9 28	21 40.51	-14 24.5	1.205	2.059	19.2	19.3	9 28	21 38.72	-14 27.6	2.186	2.999	13.1	21.7
<b>290983</b>	2005 <i>XU</i> <sub>45</sub>		8 22.1 358°34	2°9/19.8	18		<b>146667</b>	2001 <i>UW</i> <sub>163</sub>		8 22.1 150°26	0°3/21.9	18	
7 20	22 26.51	-17 35.6	1.712	2.610	12.9	20.3	7 20	22 28.87	-9 14.7	1.759	2.635	13.7	19.8
7 30	22 22.04	-18 14.0	1.651	2.608	9.4	20.1	7 30	22 23.69	-10 3.2	1.695	2.640	10.1	19.6
8 9	22 15.58	-18 56.0	1.612	2.606	5.6	19.9	8 9	22 16.54	-11 3.5	1.653	2.644	5.9	19.4
8 19	22 7.82	-19 36.0	1.599	2.605	2.9	19.7	8 19	22 8.12	-12 10.3	1.637	2.648	1.4	19.1
8 29	21 59.76	-20 7.8	1.611	2.605	5.0	19.8	8 29	21 59.36	-13 17.0	1.649	2.652	3.3	19.2
9 8	21 52.45	-20 27.0	1.649	2.605	8.8	20.1	9 8	21 51.31	-14 16.9	1.688	2.656	7.6	19.5
9 18	21 46.78	-20 31.2	1.711	2.606	12.4	20.3	9 18	21 44.87	-15 5.2	1.752	2.659	11.5	19.7
9 28	21 43.39	-20 20.0	1.793	2.608	15.5	20.5	9 28	21 40.67	-15 38.9	1.838	2.662	14.8	20.0
<b>355725</b>	2008 <i>GG</i> <sub>35</sub>		8 22.1 69°43	1°2/20.9	18		<b>368279</b>	2002 <i>JG</i> <sub>138</sub>		8 22.1 179°18	4°8/25.7	17	
7 20	22 26.59	-12 33.6	2.083	2.963	11.7	20.9	7 20	22 29.65	+1 32.9	1.530	2.375	17.0	20.9
7 30	22 21.63	-13 23.0	2.035	2.984	8.4	20.7	7 30	22 24.55	+1 35.6	1.460	2.376	13.5	20.7
8 9	22 15.13	-14 18.8	2.012	3.004	4.8	20.5	8 9	22 17.19	+1 16.5	1.409	2.376	9.5	20.5
8 19	22 7.69	-15 16.1	2.015	3.025	1.4	20.3	8 19	22 8.30	+0 37.0	1.381	2.376	5.9	20.2
8 29	22 0.13	-16 9.5	2.046	3.046	3.3	20.5	8 29	21 58.94	-0 19.0	1.379	2.376	5.1	20.2
9 8	21 53.25	-16 54.4	2.105	3.066	6.8	20.8	9 8	21 50.33	-1 24.2	1.403	2.376	8.1	20.4
9 18	21 47.74	-17 27.8	2.190	3.087	10.0	21.0	9 18	21 43.50	-2 31.1	1.450	2.376	12.1	20.6
9 28	21 44.08	-17 48.2	2.297	3.107	12.7	21.2	9 28	21 39.22	-3 32.5	1.520	2.375	15.8	20.8
<b>444659</b>	2007 <i>CG</i> <sub>23</sub>		8 22.1 100°36	0°4/22.6	18		<b>191876</b>	2004 <i>XC</i> <sub>97</sub>		8 22.1 29°66	2°9/19.8	18	
7 20	22 25.51	-7 50.1	2.282	3.147	11.4	21.6	7 20	22 28.69	-16 47.4	1.662	2.556	13.4	20.0
7 30	22 20.82	-8 25.4	2.217	3.156	8.4	21.4	7 30	22 23.69	-17 37.1	1.603	2.558	9.7	19.8
8 9	22 14.67	-9 10.5	2.177	3.164	5.0	21.2	8 9	22 16.59	-18 31.8	1.566	2.560	5.8	19.6
8 19	22 7.61	-10 1.6	2.162	3.173	1.4	21.0	8 19	22 8.14	-19 24.8	1.555	2.562	2.9	19.4
8 29	22 0.33	-10 54.2	2.177	3.181	2.4	21.1	8 29	21 59.37	-20 9.3	1.571	2.565	5.1	19.6
9 8	21 53.59	-11 43.8	2.219	3.189	5.9	21.3	9 8	21 51.40	-20 40.0	1.612	2.567	9.0	19.8
9 18	21 48.03	-12 26.5	2.288	3.197	9.1	21.5	9 18	21 45.18	-20 54.5	1.677	2.570	12.7	20.0
9 28	21 44.18	-12 59.6	2.381	3.205	11.9	21.7	9 28	21 41.36	-20 52.0	1.763	2.573	15.9	20.2
<b>260048</b>	2004 <i>GB</i> <sub>82</sub>		8 22.1 199°68	1°2/23.1	18		<b>520431</b>	2014 <i>JU</i> <sub>91</sub>		8 22.1 138°73	2°3/24.7	18	
7 20	22 31.27	-6 41.5	1.948	2.807	13.3	21.1	7 20	22 24.10	-0 44.4	2.140	2.984	12.9	21.7
7 30	22 25.33	-6 56.2	1.870	2.803	10.0	20.8	7 30	22 19.96	-1 31.3	2.064	2.984	9.9	21.5
8 9	22 17.47	-7 22.6	1.815	2.800	6.2	20.6	8 9	22 14.28	-2 35.1	2.010	2.985	6.5	21.3
8 19	22 8.31	-7 57.7	1.787	2.795	2.2	20.3	8 19	22 7.58	-3 52.5	1.983	2.985	3.2	21.1
8 29	21 58.76	-8 36.9	1.786	2.790	2.8	20.4	8 29	22 0.58	-5 18.2	1.983	2.986	2.9	21.1
9 8	21 49.80	-9 15.5	1.814	2.784	6.9	20.6	9 8	21 54.06	-6 45.7	2.012	2.986	6.0	21.3
9 18	21 42.33	-9 49.1	1.868	2.778	10.7	20.9	9 18	21 48.74	-8 8.8	2.068	2.987	9.4	21.5
9 28	21 37.02	-10 14.2	1.944	2.771	14.0	21.1	9 28	21 45.18	-9 22.3	2.148	2.987	12.4	21.7
<b>447068</b>	2004 <i>RR</i> <sub>316</sub>		8 22.1 342°89	3°0/20.2	18		<b>37523</b>	4076 <i>T-3</i>		8 22.1 62°14	0°4/21.7	18	
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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>509255</b>	2006 <i>UW</i> <sub>61</sub>		8 22.1 350°70	3°9/23.8	17		<b>43618</b>	2002 <i>CZ</i> <sub>55</sub>		8 22.1 119°48	0°1/22.1	18	
7 20	22 23.54	- 6 53.5	0.861	1.777	20.5	19.7	7 20	22 26.66	- 9 48.5	2.351	3.219	11.0	19.4
7 30	22 21.27	- 5 56.9	0.802	1.763	15.8	19.4	7 30	22 21.64	-10 17.6	2.286	3.227	8.1	19.2
8 9	22 15.81	- 5 16.2	0.759	1.751	10.3	19.1	8 9	22 15.18	-10 54.4	2.245	3.235	4.7	19.0
8 19	22 8.05	- 4 51.7	0.734	1.742	5.0	18.8	8 19	22 7.81	-11 35.5	2.232	3.242	1.1	18.8
8 29	21 59.55	- 4 41.1	0.730	1.734	5.2	18.7	8 29	22 0.23	-12 16.8	2.247	3.250	2.5	18.9
9 8	21 52.14	- 4 39.0	0.745	1.730	10.7	19.0	9 8	21 53.19	-12 54.2	2.290	3.257	5.9	19.1
9 18	21 47.37	- 4 39.2	0.778	1.728	16.3	19.3	9 18	21 47.34	-13 24.6	2.360	3.265	9.1	19.3
9 28	21 46.23	- 4 35.6	0.828	1.728	21.2	19.6	9 28	21 43.18	-13 45.8	2.454	3.272	11.7	19.5
<b>255574</b>	2006 <i>KW</i> <sub>117</sub>		8 22.1 357°36	2°0/23.1	17		<b>15516</b>	1999 <i>VN</i> <sub>86</sub>		8 22.1 41°78	4°2/26.1	18	
7 20	22 20.53	- 8 21.3	0.782	1.710	20.7	20.0	7 20	22 24.33	+ 2 58.8	1.484	2.333	17.3	17.3
7 30	22 19.12	- 7 58.7	0.732	1.701	15.6	19.6	7 30	22 20.57	+ 2 17.2	1.428	2.347	13.5	17.1
8 9	22 14.54	- 7 54.8	0.698	1.695	9.7	19.3	8 9	22 14.79	+ 1 9.9	1.392	2.361	9.4	16.9
8 19	22 7.73	- 8 6.6	0.681	1.691	3.5	18.9	8 19	22 7.73	- 0 19.0	1.379	2.376	5.5	16.7
8 29	22 0.31	- 8 27.5	0.683	1.690	4.5	19.0	8 29	22 0.41	- 2 2.2	1.392	2.392	4.4	16.7
9 8	21 54.13	- 8 49.1	0.705	1.691	10.8	19.4	9 8	21 53.90	- 3 49.7	1.430	2.408	7.5	16.9
9 18	21 50.63	- 9 3.8	0.744	1.696	16.6	19.7	9 18	21 49.09	- 5 32.0	1.493	2.424	11.4	17.2
9 28	21 50.72	- 9 6.1	0.799	1.702	21.5	20.0	9 28	21 46.61	- 7 1.6	1.579	2.441	15.0	17.5
<b>412689</b>	2014 <i>OF</i> <sub>251</sub>		8 22.1 291°46	1°1/21.3	17		<b>43862</b>	1994 <i>EK</i> <sub>1</sub>		8 22.1 106°13	4°7/19.1	18	
7 20	22 30.30	-14 58.4	2.252	3.127	11.2	20.6	7 20	22 33.98	-20 57.3	1.475	2.372	14.7	17.9
7 30	22 24.49	-15 0.4	2.166	3.112	8.2	20.4	7 30	22 27.74	-21 45.4	1.424	2.378	10.8	17.7
8 9	22 16.95	-15 5.6	2.105	3.097	4.8	20.2	8 9	22 19.03	-22 33.7	1.395	2.385	6.8	17.5
8 19	22 8.25	-15 11.0	2.071	3.081	1.4	19.9	8 19	22 8.76	-23 14.5	1.390	2.391	4.7	17.4
8 29	21 59.18	-15 13.3	2.066	3.066	3.2	20.0	8 29	21 58.23	-23 40.4	1.412	2.398	6.8	17.6
9 8	21 50.62	-15 9.7	2.089	3.051	6.8	20.2	9 8	21 48.80	-23 47.4	1.458	2.404	10.6	17.8
9 18	21 43.36	-14 58.5	2.138	3.036	10.2	20.4	9 18	21 41.53	-23 34.9	1.527	2.410	14.3	18.0
9 28	21 38.03	-14 38.8	2.211	3.021	13.1	20.6	9 28	21 37.13	-23 4.5	1.615	2.416	17.5	18.3
<b>8907</b>	Takaji		8 22.1 8°10	0°2/22.0	18		<b>230410</b>	2002 <i>KM</i> <sub>9</sub>		8 22.1 94°39	3°8/18.2	18	
7 20	22 26.53	-10 26.7	1.875	2.755	12.8	17.4	7 20	22 30.89	-19 7.6	2.021	2.907	11.8	19.9
7 30	22 21.90	-10 49.9	1.808	2.755	9.4	17.2	7 30	22 24.83	-20 41.0	1.987	2.937	8.5	19.7
8 9	22 15.47	-11 22.1	1.765	2.756	5.5	17.0	8 9	22 17.04	-22 15.2	1.978	2.967	5.3	19.6
8 19	22 7.88	-11 59.5	1.747	2.758	1.3	16.7	8 19	22 8.25	-23 42.6	1.998	2.996	3.8	19.5
8 29	22 0.00	-12 36.9	1.756	2.759	3.0	16.8	8 29	21 59.35	-24 56.6	2.045	3.025	5.7	19.7
9 8	21 52.76	-13 9.7	1.792	2.761	7.1	17.1	9 8	21 51.29	-25 52.5	2.121	3.053	8.6	19.9
9 18	21 46.97	-13 34.2	1.853	2.764	10.8	17.3	9 18	21 44.79	-26 28.8	2.221	3.080	11.4	20.2
9 28	21 43.25	-13 47.9	1.936	2.766	13.9	17.5	9 28	21 40.39	-26 46.0	2.343	3.106	13.8	20.4
<b>183546</b>	2003 <i>HD</i> <sub>38</sub>		8 22.1 83°81	0°4/22.5	18		<b>295261</b>	2008 <i>GT</i> <sub>58</sub>		8 22.2 307°84	0°2/22.4	18	
7 20	22 27.16	- 8 25.0	2.165	3.031	11.9	20.7	7 20	22 25.95	- 8 51.3	2.080	2.952	12.1	21.1
7 30	22 22.03	- 8 55.3	2.110	3.049	8.7	20.5	7 30	22 21.38	- 9 21.4	2.006	2.949	8.9	20.9
8 9	22 15.39	- 9 34.7	2.079	3.067	5.1	20.4	8 9	22 15.15	-10 1.4	1.956	2.946	5.3	20.6
8 19	22 7.85	-10 19.5	2.074	3.084	1.4	20.1	8 19	22 7.84	-10 47.8	1.933	2.943	1.4	20.4
8 29	22 0.15	-11 5.3	2.098	3.102	2.5	20.2	8 29	22 0.21	-11 35.7	1.937	2.940	2.7	20.5
9 8	21 53.09	-11 47.4	2.150	3.119	6.1	20.5	9 8	21 53.11	-12 20.1	1.968	2.938	6.5	20.7
9 18	21 47.33	-12 22.5	2.228	3.136	9.3	20.7	9 18	21 47.30	-12 57.2	2.025	2.935	10.0	20.9
9 28	21 43.37	-12 48.0	2.330	3.153	12.1	21.0	9 28	21 43.37	-13 24.0	2.106	2.933	13.1	21.1
<b>485204</b>	2010 <i>UD</i> <sub>49</sub>		8 22.1 266°32	1°7/20.3	18		<b>323343</b>	2003 <i>US</i> <sub>267</sub>		8 22.2 321°36	7°3/17.6	17	
7 20	22 25.79	-14 29.9	2.287	3.169	10.8	21.1	7 20	22 30.53	-24 13.7	1.169	2.083	16.4	19.9
7 30	22 21.20	-15 18.9	2.208	3.158	7.8	20.9	7 30	22 26.10	-25 17.3	1.106	2.067	12.4	19.6
8 9	22 15.03	-16 13.9	2.154	3.147	4.5	20.7	8 9	22 18.53	-26 20.1	1.063	2.051	8.7	19.4
8 19	22 7.79	-17 10.3	2.127	3.136	1.8	20.4	8 19	22 8.74	-27 11.0	1.042	2.037	7.3	19.3
8 29	22 0.20	-18 3.0	2.129	3.125	3.7	20.6	8 29	21 58.25	-27 39.4	1.043	2.023	9.7	19.4
9 8	21 53.07	-18 47.3	2.158	3.114	7.0	20.8	9 8	21 48.82	-27 39.2	1.066	2.009	13.9	19.6
9 18	21 47.12	-19 19.9	2.213	3.103	10.2	20.9	9 18	21 41.93	-27 10.0	1.109	1.997	18.2	19.8
9 28	21 42.93	-19 39.1	2.290	3.092	13.0	21.1	9 28	21 38.54	-26 15.1	1.168	1.985	22.0	20.0
<b>311131</b>	2004 <i>RX</i> <sub>56</sub>		8 22.1 295°20	1°6/23.1	17		<b>479609</b>	2014 <i>DN</i> <sub>19</sub>		8 22.2 215°84	0°6/21.6	18	
7 20	22 31.07	- 7 18.1	1.256	2.141	17.5	20.7	7 20	22 27.48	-10 0.8	2.075	2.947	12.1	21.8
7 30	22 26.14	- 7 16.9	1.183	2.130	13.2	20.4	7 30	22 22.55	-10 55.0	1.997	2.941	8.8	21.5
8 9	22 18.41	- 7 31.2	1.130	2.120	8.2	20.1	8 9	22 15.88	-11 59.7	1.944	2.935	5.1	21.3
8 19	22 8.68	- 7 57.9	1.100	2.109	2.9	19.7	8 19	22 8.03	-13 10.1	1.918	2.929	1.2	21.0
8 29	21 58.25	- 8 31.4	1.093	2.098	3.8	19.8	8 29	21 59.80	-14 20.1	1.920	2.922	3.1	21.2
9 8	21 48.66	- 9 4.8	1.111	2.088	9.3	20.0	9 8	21 52.07	-15 23.8	1.950	2.914	7.0	21.4
9 18	21 41.24	- 9 32.1	1.151	2.078	14.5	20.3	9 18	21 45.66	-16 16.6	2.006	2.906	10.6	21.6
9 28	21 36.95	- 9 48.5	1.211	2.068	18.9	20.6	9 28	21 41.19	-16 55.6	2.085	2.898	13.7	21.8
<b>90308</b>	Johney		8 22.1 70°83	2°7/24.5	18		<b>73789</b>	1995 <i>BO</i> <sub>6</sub>		8 22.2 311°46	2°0/20.2	18	
7 20	22 27.05	- 1 52.6	1.605	2.465	15.7	19.4	7 20	22 23.96	-11 38.7	1.633	2.526	13.7	18.6
7 30	22 22.51	- 2 20.4	1.540	2.470	12.0	19.2	7 30	22 20.49	-13 4.5	1.552	2.508	10.0	18.3
8 9	22 15.93	- 3 7.4	1.496	2.475	7.8	19.0	8 9	22 14.92	-14 44.9	1.494	2.490	5.7	18.0
8 19	22 8.02	- 4 10.2	1.476	2.480	3.8	18.8	8 19	22 7.84	-16 32.7	1.462	2.472	2.1	17.7
8 29	21 59.75	- 5 22.5	1.482	2.485	3.5	18.8	8 29	22 0.17	-18 18.1	1.457	2.454	4.7	17.9
9 8	21 52.22	- 6 36.9	1.515	2.491	7.4	19.0	9 8	21 53.02	-19 51.7	1.477	2.437	9.2	18.1
9 18	21 46.34	- 7 46.2	1.572	2.496	11.4	19.3	9 18	21 47.42	-21 6.7	1.522	2.421	13.4	18.3
9 28	21 42.79	- 8 44.7	1.651	2.501	15.0	19.5	9 28	21 44.17	-21 59.3	1.586	2.405	17.0	18.5
<b>511361</b>	2014 <i>FV</i> <sub>28</sub>		8 22.1 52°00	2°2/23.9	18		<b>420545</b>	2012 <i>GG</i> <sub>18</sub>		8 22.2 105°91	4°5/18.7		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>269100</b>	2007 <i>HC</i> <sub>80</sub>		8 22.2 51°05	1.4/23.3	18		<b>204490</b>	2005 <i>BO</i> <sub>22</sub>		8 22.2 314°08	0.6/21.7	18	
7 20	22 27.32	- 5 14.4	1.446	2.323	16.1	20.2	7 20	22 27.60	-11 32.0	1.471	2.363	15.0	20.1
7 30	22 22.77	- 5 50.1	1.396	2.338	12.0	20.0	7 30	22 23.41	-11 53.0	1.386	2.340	11.1	19.8
8 9	22 16.09	- 6 42.7	1.366	2.353	7.4	19.8	8 9	22 16.77	-12 25.0	1.322	2.316	6.5	19.5
8 19	22 8.08	- 7 47.2	1.360	2.369	2.6	19.5	8 19	22 8.35	-13 3.7	1.283	2.294	1.6	19.1
8 29	21 59.83	- 8 56.3	1.380	2.384	3.2	19.6	8 29	21 59.20	-13 42.6	1.268	2.271	3.9	19.3
9 8	21 52.50	-10 2.1	1.425	2.400	7.8	19.9	9 8	21 50.65	-14 15.1	1.278	2.249	9.0	19.5
9 18	21 47.01	-10 58.4	1.494	2.417	12.0	20.2	9 18	21 43.88	-14 36.4	1.311	2.228	13.8	19.7
9 28	21 43.99	-11 40.8	1.584	2.433	15.6	20.5	9 28	21 39.82	-14 43.3	1.364	2.207	17.9	19.9
<b>441741</b>	2009 <i>BN</i> <sub>110</sub>		8 22.2 132°87	1.3/20.9	18		<b>311174</b>	2004 <i>TT</i> <sub>306</sub>		8 22.2 12°34	1.3/23.2	18	
7 20	22 27.95	-13 13.5	2.097	2.976	11.7	22.0	7 20	22 28.39	- 7 39.8	1.960	2.826	12.9	19.8
7 30	22 22.77	-13 57.7	2.034	2.982	8.5	21.8	7 30	22 23.19	- 7 32.5	1.890	2.828	9.7	19.6
8 9	22 15.93	-14 48.4	1.996	2.988	4.9	21.6	8 9	22 16.24	- 7 34.7	1.844	2.830	6.0	19.4
8 19	22 8.03	-15 40.8	1.984	2.994	1.5	21.4	8 19	22 8.15	- 7 44.2	1.824	2.832	2.2	19.1
8 29	21 59.89	-16 29.5	2.001	3.000	3.5	21.5	8 29	21 59.79	- 7 57.8	1.831	2.834	2.7	19.2
9 8	21 52.37	-17 10.0	2.046	3.006	7.1	21.8	9 8	21 52.06	- 8 11.8	1.865	2.837	6.5	19.4
9 18	21 46.22	-17 39.2	2.116	3.011	10.4	22.0	9 18	21 45.75	- 8 22.8	1.924	2.841	10.1	19.6
9 28	21 41.99	-17 55.4	2.209	3.016	13.2	22.2	9 28	21 41.47	- 8 28.3	2.007	2.844	13.2	19.9
<b>371361</b>	2006 <i>PF</i> <sub>9</sub>		8 22.2 341°35	0.8/22.6	18		<b>37893</b>	1998 <i>FR</i> <sub>61</sub>		8 22.2 65°23	0.5/22.5	18	
7 20	22 27.11	- 9 47.9	1.043	1.950	18.5	20.3	7 20	22 29.42	- 8 39.0	1.600	2.478	14.8	18.8
7 30	22 23.58	- 9 39.8	0.978	1.938	13.8	20.0	7 30	22 24.18	- 9 1.0	1.544	2.489	10.9	18.6
8 9	22 17.06	- 9 45.7	0.931	1.926	8.4	19.6	8 9	22 16.89	- 9 34.9	1.511	2.501	6.4	18.4
8 19	22 8.40	-10 2.0	0.905	1.916	2.4	19.3	8 19	22 8.31	-10 16.0	1.503	2.513	1.8	18.1
8 29	21 59.04	-10 22.4	0.902	1.907	4.1	19.4	8 29	21 59.49	-10 58.8	1.520	2.525	3.1	18.2
9 8	21 50.67	-10 40.0	0.920	1.900	10.2	19.7	9 8	21 51.53	-11 37.3	1.565	2.537	7.6	18.5
9 18	21 44.72	-10 49.3	0.958	1.893	15.7	19.9	9 18	21 45.33	-12 7.4	1.633	2.549	11.6	18.8
9 28	21 42.14	-10 46.5	1.014	1.889	20.3	20.2	9 28	21 41.53	-12 26.0	1.723	2.561	15.0	19.1
<b>468958</b>	2015 <i>AH</i> <sub>38</sub>		8 22.2 92°87	0.7/22.6	17		<b>323079</b>	2002 <i>TW</i> <sub>129</sub>		8 22.2 356°82	5.2/20.5	16	
7 20	22 33.17	- 8 33.9	1.603	2.474	15.1	21.0	7 20	22 35.49	-23 25.6	0.971	1.888	18.7	18.8
7 30	22 26.79	- 8 48.3	1.553	2.494	11.1	20.8	7 30	22 29.87	-23 3.4	0.918	1.881	14.0	18.5
8 9	22 18.33	- 9 14.0	1.525	2.514	6.6	20.6	8 9	22 20.74	-22 34.2	0.883	1.877	8.9	18.2
8 19	22 8.62	- 9 46.7	1.523	2.533	1.9	20.4	8 19	22 9.30	-21 51.1	0.868	1.874	5.3	18.0
8 29	21 58.75	-10 21.1	1.548	2.552	3.1	20.5	8 29	21 57.48	-20 49.6	0.876	1.872	7.5	18.1
9 8	21 49.88	-10 51.8	1.599	2.571	7.6	20.8	9 8	21 47.27	-19 30.1	0.906	1.873	12.5	18.4
9 18	21 42.89	-11 15.1	1.676	2.589	11.6	21.1	9 18	21 40.15	-17 56.4	0.956	1.875	17.5	18.7
9 28	21 38.40	-11 28.4	1.774	2.606	14.9	21.4	9 28	21 36.92	-16 13.6	1.024	1.879	21.7	19.0
<b>119264</b>	2001 <i>RZ</i> <sub>55</sub>		8 22.2 243°74	1.3/21.1	18		<b>93291</b>	2000 <i>SV</i> <sub>196</sub>		8 22.2 139°76	1.2/21.2	18	
7 20	22 29.50	-12 15.5	1.829	2.709	13.1	20.2	7 20	22 31.47	-13 21.0	1.843	2.722	13.1	20.0
7 30	22 24.30	-13 3.5	1.749	2.697	9.6	20.0	7 30	22 25.52	-13 48.4	1.781	2.728	9.5	19.8
8 9	22 17.05	-14 1.2	1.692	2.684	5.5	19.7	8 9	22 17.63	-14 22.4	1.742	2.734	5.5	19.5
8 19	22 8.36	-15 3.2	1.661	2.671	1.6	19.4	8 19	22 8.50	-14 58.1	1.730	2.740	1.5	19.3
8 29	21 59.16	-16 3.0	1.657	2.657	3.8	19.6	8 29	21 59.11	-15 30.3	1.745	2.746	3.6	19.4
9 8	21 50.52	-16 54.2	1.681	2.643	8.1	19.8	9 8	21 50.48	-15 54.5	1.788	2.751	7.6	19.7
9 18	21 43.40	-17 32.6	1.730	2.629	12.1	20.0	9 18	21 43.48	-16 8.0	1.855	2.756	11.3	19.9
9 28	21 38.57	-17 55.5	1.800	2.614	15.5	20.2	9 28	21 38.75	-16 9.5	1.945	2.760	14.5	20.2
<b>386341</b>	2008 <i>SJ</i> <sub>265</sub>		8 22.2 210°30	5.4/17.1	18		<b>127116</b>	2002 <i>GY</i> <sub>99</sub>		8 22.2 113°09	1.8/23.8	18	
7 20	22 33.62	-27 0.9	2.248	3.128	11.0	21.9	7 20	22 28.81	- 4 7.6	1.900	2.756	13.8	20.6
7 30	22 26.99	-27 53.8	2.182	3.122	8.4	21.7	7 30	22 23.49	- 4 31.5	1.838	2.768	10.4	20.4
8 9	22 18.45	-28 42.6	2.140	3.115	6.2	21.6	8 9	22 16.40	- 5 9.5	1.799	2.780	6.6	20.2
8 19	22 8.67	-29 21.3	2.125	3.107	5.4	21.5	8 19	22 8.20	- 5 58.1	1.786	2.792	2.8	20.0
8 29	21 58.56	-29 44.5	2.137	3.098	6.9	21.6	8 29	21 59.76	- 6 52.6	1.800	2.803	2.9	20.0
9 8	21 49.12	-29 49.2	2.177	3.089	9.5	21.8	9 8	21 52.01	- 7 47.1	1.842	2.815	6.6	20.3
9 18	21 41.21	-29 35.4	2.241	3.080	12.1	21.9	9 18	21 45.74	- 8 36.7	1.909	2.825	10.2	20.5
9 28	21 35.49	-29 4.5	2.326	3.069	14.5	22.1	9 28	21 41.53	- 9 17.4	2.000	2.836	13.3	20.7
<b>210722</b>	2000 <i>SZ</i> <sub>306</sub>		8 22.2 320°08	4.5/24.8	18		<b>360875</b>	2005 <i>SC</i> <sub>36</sub>		8 22.2 291°06	3.7/18.9	18	
7 20	22 26.40	- 1 46.4	1.153	2.034	19.1	19.4	7 20	22 29.33	-21 16.6	2.082	2.971	11.4	20.7
7 30	22 22.96	- 1 29.8	1.076	2.015	15.0	19.1	7 30	22 23.93	-21 53.8	2.013	2.963	8.4	20.5
8 9	22 16.71	- 1 35.7	1.017	1.998	10.3	18.8	8 9	22 16.71	-22 31.1	1.968	2.956	5.3	20.3
8 19	22 8.35	- 2 3.9	0.978	1.980	5.8	18.5	8 19	22 8.29	-23 3.3	1.949	2.949	3.7	20.1
8 29	21 59.13	- 2 50.2	0.962	1.964	5.2	18.4	8 29	21 59.55	-23 25.2	1.957	2.942	5.4	20.2
9 8	21 50.62	- 3 46.6	0.968	1.948	9.7	18.6	9 8	21 51.45	-23 33.4	1.993	2.935	8.5	20.4
9 18	21 44.23	- 4 44.3	0.996	1.934	14.9	18.9	9 18	21 44.80	-23 26.7	2.053	2.928	11.6	20.6
9 28	21 41.04	- 5 34.5	1.042	1.920	19.6	19.1	9 28	21 40.22	-23 5.4	2.134	2.921	14.3	20.8
<b>346842</b>	2009 <i>DW</i> <sub>88</sub>		8 22.2 242°86	1.4/23.5	18		<b>166568</b>	2002 <i>RH</i> <sub>114</sub>		8 22.2 119°44	1.7/20.8	18	
7 20	22 27.56	- 5 1.2	2.290	3.141	11.9	22.3	7 20	22 29.82	-14 59.1	1.869	2.753	12.7	19.7
7 30	22 22.53	- 5 29.8	2.197	3.125	9.0	22.1	7 30	22 24.35	-15 27.9	1.804	2.754	9.2	19.5
8 9	22 15.87	- 6 10.9	2.127	3.109	5.6	21.9	8 9	22 16.97	-16 1.9	1.762	2.755	5.3	19.3
8 19	22 8.06	- 7 1.6	2.085	3.092	2.2	21.6	8 19	22 8.35	-16 36.2	1.747	2.756	1.9	19.0
8 29	21 59.81	- 7 57.9	2.071	3.074	2.5	21.6	8 29	21 59.44	-17 5.7	1.759	2.757	3.9	19.2
9 8	21 51.95	- 8 54.7	2.085	3.056	6.1	21.8	9 8	21 51.24	-17 26.0	1.797	2.758	7.8	19.4
9 18	21 45.22	- 9 47.4	2.127	3.038	9.6	22.0	9 18	21 44.61	-17 34.7	1.861	2.759	11.4	19.7
9 28	21 40.27	-10 32.0	2.192	3.018	12.7	22.2	9 28	21 40.18	-17 30.8	1.946	2.760	14.5	19.9
<b>247104</b>	2000 <i>SY</i> <sub>345</sub>		8 22.2 336°51	1.9/23.2	18		<b>180402</b>	2004 <i>BR</i>					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>151489</b>	2002 <i>JE</i> <sub>30</sub>		8 22.2 78°57'	1.9°/24.2	18		<b>364034</b>	2005 <i>WD</i> <sub>35</sub>		8 22.2 135°15'	4.2°/27.6	18	
7 20	22 25.73	- 3 33.8	2.254	3.104	12.1	19.8	7 20	22 25.99	+ 6 17.7	2.981	3.766	11.0	21.8
7 30	22 21.03	- 3 53.0	2.190	3.116	9.1	19.6	7 30	22 20.95	+ 6 19.8	2.907	3.780	9.0	21.7
8 9	22 14.88	- 4 24.4	2.150	3.128	5.9	19.4	8 9	22 14.76	+ 6 7.9	2.857	3.792	6.8	21.6
8 19	22 7.83	- 5 5.4	2.135	3.140	2.7	19.2	8 19	22 7.84	+ 5 42.6	2.833	3.805	4.9	21.5
8 29	22 0.58	- 5 52.1	2.149	3.152	2.6	19.2	8 29	22 0.76	+ 5 6.0	2.836	3.816	4.2	21.5
9 8	21 53.88	- 6 39.9	2.191	3.164	5.7	19.5	9 8	21 54.07	+ 4 21.1	2.869	3.828	5.3	21.5
9 18	21 48.37	- 7 24.8	2.259	3.175	8.8	19.7	9 18	21 48.30	+ 3 31.7	2.929	3.839	7.3	21.7
9 28	21 44.56	- 8 3.0	2.351	3.187	11.6	19.9	9 28	21 43.87	+ 2 41.8	3.015	3.849	9.4	21.8
<b>49182</b>	1998 <i>SP</i> <sub>69</sub>		8 22.2 325°76'	6°0/26.1	18		<b>374846</b>	2006 <i>UP</i> <sub>325</sub>		8 22.2 172°41'	2°5/24.2	17	
7 20	22 26.56	+ 1 57.7	1.313	2.171	18.5	18.4	7 20	22 30.58	- 3 7.2	1.780	2.633	14.7	21.5
7 30	22 22.75	+ 2 21.5	1.237	2.159	14.9	18.2	7 30	22 25.01	- 3 19.6	1.708	2.635	11.2	21.3
8 9	22 16.44	+ 2 21.6	1.179	2.147	10.9	17.9	8 9	22 17.44	- 3 47.6	1.659	2.637	7.3	21.0
8 19	22 8.30	+ 1 57.5	1.143	2.137	7.1	17.7	8 19	22 8.55	- 4 28.7	1.634	2.639	3.5	20.8
8 29	21 59.50	+ 1 12.1	1.130	2.126	6.2	17.6	8 29	21 59.27	- 5 18.2	1.637	2.640	3.3	20.8
9 8	21 51.38	+ 0 12.5	1.141	2.117	9.2	17.7	9 8	21 50.67	- 6 10.2	1.667	2.640	7.1	21.0
9 18	21 45.17	- 0 52.9	1.173	2.108	13.5	17.9	9 18	21 43.65	- 6 59.1	1.722	2.640	11.0	21.3
9 28	21 41.80	- 1 55.1	1.226	2.099	17.6	18.2	9 28	21 38.90	- 7 40.3	1.800	2.640	14.4	21.5
<b>22962</b>	1999 <i>UH</i> <sub>15</sub>		8 22.2 244°82'	0°5/21.7	18		<b>107319</b>	2001 <i>CL</i> <sub>12</sub>		8 22.2 167°99'	2°2/20.5	17	
7 20	22 25.79	-10 52.5	2.284	3.157	11.1	19.6	7 20	22 32.20	-14 40.9	1.656	2.541	14.0	20.4
7 30	22 21.17	-11 29.3	2.210	3.154	8.1	19.4	7 30	22 26.33	-15 27.4	1.593	2.544	10.1	20.2
8 9	22 15.03	-12 14.0	2.160	3.151	4.7	19.2	8 9	22 18.27	-16 20.8	1.554	2.547	5.9	20.0
8 19	22 7.89	-13 2.8	2.137	3.148	1.1	18.9	8 19	22 8.75	-17 14.8	1.540	2.549	2.3	19.7
8 29	22 0.46	-13 51.0	2.143	3.145	2.8	19.0	8 29	21 58.88	-18 2.4	1.553	2.551	4.6	19.9
9 8	21 53.52	-14 34.2	2.176	3.142	6.3	19.3	9 8	21 49.83	-18 38.1	1.593	2.552	8.8	20.1
9 18	21 47.75	-15 8.9	2.236	3.139	9.6	19.5	9 18	21 42.59	-18 58.6	1.657	2.553	12.7	20.4
9 28	21 43.71	-15 32.7	2.319	3.135	12.4	19.6	9 28	21 37.88	-19 3.1	1.742	2.553	16.0	20.6
<b>86802</b>	2000 <i>GY</i> <sub>113</sub>		8 22.2 92°59'	2°9/20.2	17		<b>391245</b>	2006 <i>QK</i> <sub>8</sub>		8 22.2 38°45'	0°3/22.4	18	
7 20	22 33.16	-17 23.5	1.552	2.443	14.4	19.6	7 20	22 26.24	- 8 6.7	1.744	2.622	13.8	21.0
7 30	22 27.04	-17 55.8	1.498	2.451	10.4	19.4	7 30	22 21.84	- 8 47.7	1.682	2.627	10.1	20.8
8 9	22 18.62	-18 31.4	1.466	2.459	6.2	19.2	8 9	22 15.57	- 9 41.3	1.642	2.632	6.0	20.5
8 19	22 8.77	-19 4.2	1.460	2.467	3.0	19.0	8 19	22 8.08	-10 42.6	1.627	2.637	1.6	20.3
8 29	21 58.67	-19 27.9	1.480	2.475	5.1	19.1	8 29	22 0.29	-11 45.4	1.639	2.643	3.0	20.4
9 8	21 49.58	-19 38.2	1.525	2.483	9.3	19.4	9 8	21 53.19	-12 43.4	1.677	2.649	7.3	20.7
9 18	21 42.47	-19 33.6	1.595	2.490	13.1	19.7	9 18	21 47.62	-13 31.4	1.741	2.655	11.1	20.9
9 28	21 38.04	-19 14.2	1.685	2.498	16.4	19.9	9 28	21 44.20	-14 6.1	1.827	2.661	14.4	21.1
<b>149836</b>	2005 <i>OO</i> <sub>19</sub>		8 22.2 250°41'	1°0/21.4	18		<b>436510</b>	2011 <i>FG</i> <sub>36</sub>		8 22.2 52°44'	2°2/20.5	17	
7 20	22 28.49	-10 39.4	1.633	2.517	14.2	20.3	7 20	22 29.38	-13 24.6	1.359	2.256	15.6	20.6
7 30	22 23.74	-11 33.6	1.560	2.510	10.4	20.0	7 30	22 24.32	-14 28.6	1.324	2.281	11.2	20.4
8 9	22 16.81	-12 40.3	1.509	2.502	6.0	19.8	8 9	22 17.02	-15 40.7	1.311	2.306	6.4	20.2
8 19	22 8.37	-13 53.5	1.483	2.493	1.5	19.4	8 19	22 8.41	-16 52.8	1.322	2.331	2.3	20.0
8 29	21 59.43	-15 5.7	1.484	2.485	3.8	19.6	8 29	21 59.71	-17 56.3	1.359	2.357	4.8	20.2
9 8	21 51.14	-16 9.3	1.511	2.477	8.5	19.8	9 8	21 52.13	-18 44.7	1.420	2.383	9.3	20.6
9 18	21 44.52	-16 58.8	1.562	2.468	12.7	20.1	9 18	21 46.61	-19 14.7	1.505	2.409	13.2	20.9
9 28	21 40.35	-17 31.3	1.634	2.459	16.3	20.3	9 28	21 43.71	-19 26.0	1.610	2.435	16.5	21.2
<b>43836</b>	1993 <i>FX</i> <sub>45</sub>		8 22.2 193°94'	3°5/25.7	18		<b>488108</b>	2015 <i>VH</i> <sub>78</sub>		8 22.2 315°47'	4°6/17.5	17	
7 20	22 26.28	+ 1 34.9	1.949	2.784	14.3	19.7	7 20	22 25.69	-22 15.6	2.048	2.944	11.2	21.1
7 30	22 21.76	+ 1 5.6	1.872	2.784	11.2	19.5	7 30	22 21.43	-23 24.0	1.977	2.930	8.3	20.9
8 9	22 15.48	+ 0 16.9	1.816	2.783	7.8	19.3	8 9	22 15.35	-24 33.5	1.930	2.917	5.6	20.7
8 19	22 8.03	+ 0 48.9	1.785	2.781	4.5	19.1	8 19	22 8.04	-25 37.6	1.909	2.903	4.6	20.6
8 29	22 0.20	- 2 6.9	1.781	2.780	3.8	19.0	8 29	22 0.33	-26 29.7	1.915	2.891	6.4	20.7
9 8	21 52.92	- 3 30.5	1.804	2.778	6.6	19.2	9 8	21 53.16	-27 5.2	1.947	2.878	9.3	20.9
9 18	21 46.98	- 4 52.7	1.854	2.776	10.1	19.4	9 18	21 47.36	-27 21.7	2.003	2.866	12.3	21.0
9 28	21 43.01	- 6 7.5	1.928	2.774	13.3	19.6	9 28	21 43.60	-27 19.2	2.079	2.854	15.0	21.2
<b>511491</b>	2014 <i>NB</i> <sub>33</sub>		8 22.2 60°97'	2°0/20.0	18		<b>504000</b>	2004 <i>YC</i> <sub>26</sub>		8 22.2 268°72'	4°4/24.8	17	
7 20	22 24.95	-14 16.1	2.139	3.025	11.3	21.2	7 20	22 31.74	- 1 27.4	1.459	2.316	17.1	21.6
7 30	22 20.60	-15 23.8	2.083	3.035	8.1	21.0	7 30	22 26.43	- 1 5.0	1.377	2.303	13.5	21.4
8 9	22 14.70	-16 37.6	2.052	3.045	4.6	20.8	8 9	22 18.58	- 1 0.6	1.316	2.290	9.3	21.1
8 19	22 7.82	-17 51.7	2.047	3.056	2.0	20.6	8 19	22 8.89	- 1 14.0	1.277	2.277	5.4	20.9
8 29	22 0.71	-19 0.2	2.071	3.066	3.9	20.8	8 29	21 58.49	- 1 42.1	1.264	2.263	4.9	20.8
9 8	21 54.19	-19 57.8	2.122	3.077	7.2	21.0	9 8	21 48.74	- 2 19.5	1.276	2.250	8.7	21.0
9 18	21 48.95	-20 41.4	2.199	3.087	10.3	21.2	9 18	21 40.85	- 2 59.6	1.311	2.236	13.2	21.2
9 28	21 45.51	-21 9.4	2.298	3.098	13.0	21.4	9 28	21 35.75	- 3 36.1	1.367	2.223	17.2	21.4
<b>449405</b>	2013 <i>HL</i> <sub>3</sub>		8 22.2 274°44'	0°7/22.9	18		<b>211998</b>	2005 <i>BC</i> <sub>3</sub>		8 22.2 46°21'	2°8/20.1	17	
7 20	22 24.40	- 6 23.9	2.267	3.129	11.6	21.1	7 20	22 28.10	-13 10.8	1.192	2.098	16.8	19.6
7 30	22 20.23	- 7 8.6	2.183	3.119	8.6	20.9	7 30	22 23.87	-14 32.7	1.145	2.106	12.1	19.3
8 9	22 14.53	- 8 5.3	2.123	3.109	5.2	20.6	8 9	22 17.02	-16 6.8	1.118	2.115	7.0	19.1
8 19	22 7.80	- 9 10.7	2.089	3.099	1.6	20.4	8 19	22 8.46	-17 42.8	1.115	2.124	2.9	18.9
8 29	22 0.71	-10 19.6	2.085	3.089	2.4	20.4	8 29	21 59.55	-19 9.3	1.136	2.133	5.8	19.1
9 8	21 54.03	-11 26.7	2.108	3.079	6.1	20.6	9 8	21 51.73	-20 16.9	1.180	2.143	10.7	19.4
9 18	21 48.47	-12 27.0	2.158	3.068	9.5	20.8	9 18	21 46.15	-21 0.9	1.246	2.153	15.2	19.7
9 28	21 44.61	-13 16.9	2.231	3.058	12.4	21.0	9 28	21 43.53	-21 20.4	1.331	2.163	18.9	20.0
<b>93571</b>	2000 <i>UP</i> <sub>42</sub>		8 22.2 272°58'	4°7/26.3	18		<b>387799</b>	2003 <i>YK</i> <sub>15</sub>		8 22.2 1			

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8 22.2

8 22.2

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>295210</b>	2008 <i>FJ</i> <sub>124</sub>		8 22.2 49°35'	1.2°/23.3	18		<b>49823</b>	1999 <i>XV</i> <sub>71</sub>		8 22.2 169°39'	0.7°/22.8	18	
7 20	22 25.78	- 5 57.5	1.932	2.799	13.1	20.3	7 20	22 31.04	- 7 25.0	1.827	2.692	13.8	19.7
7 30	22 21.27	- 6 26.5	1.877	2.814	9.7	20.1	7 30	22 25.32	- 7 53.6	1.758	2.695	10.3	19.4
8 9	22 15.12	- 7 7.7	1.844	2.829	6.0	20.0	8 9	22 17.63	- 8 34.5	1.712	2.698	6.2	19.2
8 19	22 7.97	- 7 57.5	1.836	2.845	2.1	19.7	8 19	22 8.65	- 9 23.6	1.691	2.701	1.9	18.9
8 29	22 0.63	- 8 50.8	1.857	2.861	2.6	19.8	8 29	21 59.33	-10 15.6	1.699	2.703	2.9	19.0
9 8	21 53.95	- 9 42.2	1.904	2.877	6.4	20.1	9 8	21 50.68	-11 4.5	1.734	2.704	7.2	19.3
9 18	21 48.66	-10 27.1	1.977	2.894	9.9	20.3	9 18	21 43.61	-11 45.7	1.794	2.705	11.1	19.5
9 28	21 45.30	-11 2.3	2.073	2.910	12.9	20.6	9 28	21 38.78	-12 16.0	1.878	2.705	14.4	19.7
<b>383990</b>	2008 <i>TA</i> <sub>161</sub>		8 22.2 127°30'	4.4°/18.7	17		<b>241105</b>	2007 <i>JR</i> <sub>15</sub>		8 22.2 356°82'	6.2°/26.9	16	
7 20	22 31.63	-21 27.9	1.750	2.642	13.0	20.7	7 20	22 22.99	+ 3 42.1	1.259	2.118	19.1	19.8
7 30	22 25.85	-22 17.6	1.693	2.645	9.5	20.5	7 30	22 20.12	+ 3 50.7	1.193	2.114	15.5	19.6
8 9	22 17.94	-23 7.4	1.659	2.648	6.2	20.3	8 9	22 14.90	+ 3 31.5	1.144	2.110	11.4	19.3
8 19	22 8.68	-23 50.4	1.651	2.650	4.4	20.2	8 19	22 8.03	+ 2 44.9	1.116	2.108	7.6	19.1
8 29	21 59.13	-24 20.2	1.670	2.653	6.3	20.3	8 29	22 0.64	+ 1 35.5	1.111	2.107	6.3	19.0
9 8	21 50.43	-24 33.0	1.714	2.655	9.7	20.5	9 8	21 54.04	+ 0 12.0	1.129	2.107	9.0	19.2
9 18	21 43.52	-24 27.6	1.782	2.658	13.0	20.7	9 18	21 49.32	- 1 15.3	1.169	2.109	13.1	19.4
9 28	21 39.06	-24 5.0	1.871	2.660	15.9	20.9	9 28	21 47.30	- 2 36.4	1.230	2.111	17.0	19.7
<b>85352</b>	1995 <i>UR</i> <sub>43</sub>		8 22.2 106°38'	5.1°/18.4	18		<b>129564</b>	Christy		8 22.2 61°11'	4.4°/26.6	18	
7 20	22 31.64	-21 4.6	1.490	2.389	14.4	19.9	7 20	22 25.19	+ 4 10.7	1.730	2.562	15.9	19.9
7 30	22 26.17	-22 13.4	1.437	2.393	10.6	19.7	7 30	22 21.12	+ 3 34.2	1.663	2.570	12.7	19.7
8 9	22 18.27	-23 23.4	1.406	2.396	6.9	19.5	8 9	22 15.19	+ 2 33.9	1.616	2.577	9.0	19.5
8 19	22 8.78	-24 25.9	1.400	2.399	5.1	19.4	8 19	22 8.06	+ 1 12.6	1.593	2.585	5.6	19.3
8 29	21 58.94	-25 12.4	1.420	2.402	7.3	19.5	8 29	22 0.61	- 0 24.0	1.596	2.593	4.5	19.3
9 8	21 50.09	-25 37.9	1.464	2.406	11.0	19.7	9 8	21 53.82	- 2 7.5	1.626	2.601	7.1	19.5
9 18	21 43.29	-25 40.8	1.531	2.409	14.6	20.0	9 18	21 48.51	- 3 49.2	1.682	2.610	10.6	19.7
9 28	21 39.27	-25 22.7	1.617	2.412	17.8	20.2	9 28	21 45.32	- 5 21.7	1.762	2.618	13.9	19.9
<b>98957</b>	2001 <i>CH</i> <sub>36</sub>		8 22.2 297°60'	3.7°/19.1	18		<b>279031</b>	2008 <i>UF</i> <sub>368</sub>		8 22.2 344°69'	1.8°/23.5	18	
7 20	22 28.28	-17 41.6	1.635	2.532	13.5	18.8	7 20	22 22.69	- 5 34.3	1.200	2.095	17.4	19.5
7 30	22 23.85	-18 44.4	1.550	2.507	9.9	18.5	7 30	22 20.07	- 5 54.1	1.131	2.083	13.2	19.2
8 9	22 17.06	-19 54.5	1.487	2.481	6.1	18.2	8 9	22 14.95	- 6 34.3	1.081	2.071	8.3	18.9
8 19	22 8.55	-21 4.5	1.450	2.455	3.7	18.0	8 19	22 8.06	- 7 30.9	1.052	2.061	3.1	18.6
8 29	21 59.32	-22 5.9	1.439	2.429	6.1	18.1	8 29	22 0.57	- 8 36.6	1.046	2.052	3.7	18.6
9 8	21 50.62	-22 51.5	1.452	2.403	10.2	18.3	9 8	21 53.85	- 9 42.2	1.064	2.045	9.0	18.9
9 18	21 43.59	-23 17.1	1.489	2.377	14.4	18.5	9 18	21 49.10	-10 39.3	1.103	2.039	14.0	19.2
9 28	21 39.14	-23 21.6	1.545	2.352	18.0	18.6	9 28	21 47.20	-11 21.5	1.161	2.034	18.4	19.4
<b>235815</b>	2004 <i>XS</i> <sub>82</sub>		8 22.2 321°46'	0.2°/22.4	18		<b>226490</b>	2003 <i>SX</i> <sub>272</sub>		8 22.2 278°94'	2.6°/24.9	18	
7 20	22 28.58	- 9 23.1	1.642	2.522	14.3	20.5	7 20	22 25.34	- 1 50.7	2.410	3.251	11.7	20.6
7 30	22 23.75	- 9 43.5	1.571	2.517	10.6	20.3	7 30	22 20.85	- 1 57.0	2.324	3.241	9.1	20.4
8 9	22 16.81	-10 15.2	1.523	2.513	6.3	20.0	8 9	22 14.91	- 2 15.7	2.260	3.232	6.1	20.2
8 19	22 8.44	-10 54.2	1.499	2.509	1.6	19.7	8 19	22 7.99	- 2 45.3	2.222	3.222	3.3	20.0
8 29	21 59.65	-11 34.8	1.501	2.505	3.2	19.8	8 29	22 0.74	- 3 23.0	2.213	3.213	3.0	20.0
9 8	21 51.56	-12 11.5	1.530	2.502	7.8	20.1	9 8	21 53.88	- 4 4.9	2.231	3.204	5.6	20.1
9 18	21 45.14	-12 39.6	1.583	2.498	12.0	20.3	9 18	21 48.08	- 4 46.7	2.276	3.194	8.7	20.3
9 28	21 41.11	-12 56.2	1.657	2.495	15.5	20.5	9 28	21 43.89	- 5 24.8	2.346	3.185	11.5	20.5
<b>134795</b>	2000 <i>EV</i> <sub>18</sub>		8 22.2 46°16'	3.1°/20.2	18		<b>19327</b>	1996 <i>XH</i> <sub>19</sub>		8 22.2 99°28'	6.6°/15.8	18	
7 20	22 33.65	-19 31.5	1.658	2.548	13.7	19.2	7 20	22 30.42	-26 5.6	1.809	2.704	12.5	17.5
7 30	22 27.25	-19 44.0	1.606	2.558	10.0	19.0	7 30	22 24.96	-27 49.2	1.771	2.719	9.5	17.3
8 9	22 18.71	-19 56.7	1.576	2.568	6.0	18.8	8 9	22 17.43	-29 28.6	1.757	2.733	7.1	17.2
8 19	22 8.87	-20 4.5	1.572	2.578	3.2	18.7	8 19	22 8.60	-30 54.7	1.769	2.748	6.7	17.2
8 29	21 58.87	-20 2.7	1.595	2.589	5.1	18.8	8 29	21 59.54	-31 59.9	1.807	2.762	8.5	17.4
9 8	21 49.88	-19 48.7	1.644	2.600	8.9	19.1	9 8	21 51.35	-32 40.2	1.871	2.776	11.1	17.6
9 18	21 42.82	-19 22.2	1.717	2.611	12.5	19.3	9 18	21 44.93	-32 55.2	1.957	2.790	13.8	17.8
9 28	21 38.31	-18 44.0	1.811	2.622	15.5	19.5	9 28	21 40.92	-32 47.3	2.061	2.803	16.1	18.0
<b>310547</b>	2001 <i>EX</i> <sub>5</sub>		8 22.2 139°52'	0.1°/22.1	18		<b>37283</b>	2000 <i>YA</i> <sub>71</sub>		8 22.2 150°87'	4.3°/17.3	18	
7 20	22 25.00	- 9 3.1	2.723	3.585	9.9	21.0	7 20	22 27.13	-23 4.1	2.344	3.232	10.3	18.7
7 30	22 20.36	- 9 52.0	2.655	3.594	7.2	20.8	7 30	22 22.21	-24 16.5	2.286	3.235	7.6	18.5
8 9	22 14.49	-10 48.7	2.613	3.602	4.2	20.6	8 9	22 15.71	-25 28.2	2.255	3.238	5.2	18.3
8 19	22 7.83	-11 49.7	2.599	3.610	1.0	20.4	8 19	22 8.18	-26 33.4	2.250	3.241	4.4	18.3
8 29	22 0.98	-12 50.7	2.615	3.618	2.2	20.5	8 29	22 0.39	-27 26.5	2.274	3.244	5.9	18.4
9 8	21 54.55	-13 47.5	2.660	3.625	5.3	20.8	9 8	21 53.16	-28 3.7	2.324	3.246	8.5	18.6
9 18	21 49.11	-14 36.8	2.732	3.632	8.1	21.0	9 18	21 47.20	-28 23.4	2.399	3.248	11.0	18.7
9 28	21 45.11	-15 16.1	2.829	3.639	10.6	21.1	9 28	21 43.06	-28 25.9	2.495	3.251	13.3	18.9
<b>511978</b>	2015 <i>KY</i> <sub>64</sub>		8 22.2 173°78'	2.1°/20.2	17		<b>216649</b>	2003 <i>SA</i> <sub>208</sub>		8 22.2 195°94'	5.7°/16.9	18	
7 20	22 29.39	-14 33.1	1.965	2.847	12.2	22.2	7 20	22 32.80	-27 33.2	2.184	3.066	11.2	20.1
7 30	22 24.05	-15 35.4	1.900	2.850	8.8	22.0	7 30	22 26.47	-28 28.6	2.123	3.064	8.6	20.0
8 9	22 16.86	-16 44.4	1.859	2.852	5.1	21.7	8 9	22 18.26	-29 19.4	2.088	3.062	6.4	19.8
8 19	22 8.45	-17 54.2	1.845	2.853	2.2	21.6	8 19	22 8.82	-29 59.2	2.079	3.059	5.7	19.8
8 29	21 59.71	-18 58.0	1.859	2.854	4.3	21.7	8 29	21 59.10	-30 22.9	2.097	3.056	7.2	19.9
9 8	21 51.60	-19 50.3	1.900	2.854	8.0	21.9	9 8	21 50.09	-30 27.5	2.141	3.052	9.7	20.0
9 18	21 44.97	-20 27.8	1.967	2.854	11.4	22.1	9 18	21 42.65	-30 12.9	2.210	3.048	12.3	20.2
9 28	21 40.44	-20 48.8	2.055	2.854	14.4	22.4	9 28	21 37.39	-29 41.1	2.299	3.043	14.6	20.3
<b>64972</b>	2002 <i>AT</i> <sub>9</sub>		8 22.2 340°60'	2.1°/19.9	18		<b>342836</b>	2008 <i>XN</i> <sub>47</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>166465</b>	2002 <i>PH</i> <sub>98</sub>		8 22.2 325°24	3°8/18.7	18		<b>436296</b>	2010 <i>DQ</i> <sub>48</sub>		8 22.2 134°80	0°8/22.9	15	
7 20	22 24.89	-16 48.6	1.542	2.446	13.7	19.0	7 20	22 30.25	-7 23.5	2.278	3.133	11.8	22.5
7 30	22 21.33	-18 12.1	1.472	2.432	10.0	18.7	7 30	22 24.34	-7 44.4	2.214	3.147	8.7	22.3
8 9	22 15.55	-19 44.3	1.425	2.419	6.1	18.5	8 9	22 16.90	-8 14.7	2.175	3.160	5.3	22.1
8 19	22 8.20	-21 16.4	1.402	2.407	3.8	18.3	8 19	22 8.51	-8 51.1	2.164	3.173	1.7	21.9
8 29	22 0.31	-22 39.0	1.405	2.395	6.3	18.4	8 29	21 59.92	-9 29.7	2.181	3.185	2.4	22.0
9 8	21 53.07	-23 43.9	1.433	2.383	10.4	18.6	9 8	21 51.94	-10 6.5	2.227	3.196	5.9	22.2
9 18	21 47.54	-24 26.4	1.483	2.373	14.3	18.8	9 18	21 45.24	-10 38.0	2.300	3.207	9.1	22.5
9 28	21 44.52	-24 45.3	1.553	2.362	17.7	19.0	9 28	21 40.37	-11 1.6	2.397	3.218	11.9	22.7
<b>479600</b>	2014 <i>DZ</i> <sub>8</sub>		8 22.2 13°25	0°2/22.1	18		<b>266828</b>	2009 <i>TP</i> <sub>37</sub>		8 22.2 9°38	3°5/24.7	18	
7 20	22 33.78	-12 31.3	1.707	2.584	14.0	20.4	7 20	22 29.77	-2 12.1	1.505	2.365	16.5	20.1
7 30	22 27.42	-12 19.6	1.639	2.584	10.3	20.2	7 30	22 24.77	-2 7.2	1.436	2.365	12.7	19.9
8 9	22 18.91	-12 13.8	1.594	2.585	6.1	19.9	8 9	22 17.51	-2 20.3	1.388	2.365	8.5	19.7
8 19	22 8.99	-12 10.8	1.575	2.586	1.5	19.6	8 19	22 8.71	-2 49.7	1.364	2.366	4.5	19.4
8 29	21 58.76	-12 7.1	1.583	2.587	3.2	19.8	8 29	21 59.46	-3 31.0	1.364	2.366	4.1	19.4
9 8	21 49.35	-11 59.5	1.618	2.588	7.7	20.1	9 8	21 50.98	-4 17.8	1.391	2.367	7.9	19.6
9 18	21 41.74	-11 45.9	1.679	2.589	11.7	20.3	9 18	21 44.31	-5 3.7	1.441	2.367	12.1	19.9
9 28	21 36.60	-11 25.2	1.761	2.590	15.1	20.5	9 28	21 40.20	-5 43.1	1.513	2.368	15.9	20.1
<b>355600</b>	2008 <i>CF</i> <sub>199</sub>		8 22.2 71°95	0°9/23.1	18		<b>358863</b>	2008 <i>FY</i> <sub>103</sub>		8 22.2 113°21	2°3/24.8	18	
7 20	22 27.61	-6 55.6	2.029	2.893	12.7	21.2	7 20	22 24.77	-1 14.5	2.259	3.101	12.3	21.3
7 30	22 22.53	-7 19.2	1.974	2.910	9.4	21.0	7 30	22 20.47	-1 47.8	2.186	3.105	9.5	21.1
8 9	22 15.87	-7 53.5	1.942	2.928	5.7	20.8	8 9	22 14.70	-2 35.9	2.135	3.108	6.3	20.9
8 19	22 8.23	-8 35.0	1.936	2.945	1.9	20.6	8 19	22 7.98	-3 36.1	2.110	3.112	3.2	20.7
8 29	22 0.42	-9 19.2	1.959	2.963	2.5	20.7	8 29	22 0.99	-4 43.9	2.113	3.115	2.8	20.7
9 8	21 53.29	-10 1.2	2.009	2.981	6.2	21.0	9 8	21 54.48	-5 53.9	2.145	3.119	5.7	20.9
9 18	21 47.53	-10 37.3	2.085	2.998	9.6	21.2	9 18	21 49.11	-7 1.0	2.203	3.122	8.9	21.1
9 28	21 43.67	-11 4.4	2.184	3.015	12.5	21.4	9 28	21 45.41	-8 0.6	2.286	3.125	11.8	21.3
<b>152296</b>	2005 <i>TE</i> <sub>47</sub>		8 22.2 152°75	3°2/25.8	18		<b>143740</b>	2003 <i>UF</i> <sub>247</sub>		8 22.2 250°19	0°6/22.7	18	
7 20	22 27.25	+1 11.0	2.722	3.539	11.2	21.0	7 20	22 30.08	-7 33.9	1.597	2.471	15.0	20.9
7 30	22 22.00	+1 9.9	2.647	3.546	8.8	20.9	7 30	22 25.05	-8 5.4	1.518	2.460	11.2	20.7
8 9	22 15.48	+0 56.2	2.595	3.554	6.2	20.7	8 9	22 17.73	-8 51.6	1.460	2.449	6.8	20.4
8 19	22 8.14	+0 31.3	2.569	3.560	3.9	20.6	8 19	22 8.79	-9 48.3	1.427	2.437	2.0	20.0
8 29	22 0.59	-0 2.6	2.572	3.567	3.4	20.5	8 29	21 59.26	-10 49.1	1.420	2.425	3.3	20.1
9 8	21 53.46	-0 42.0	2.605	3.572	5.3	20.7	9 8	21 50.36	-11 46.7	1.440	2.412	8.1	20.4
9 18	21 47.33	-1 23.3	2.664	3.578	7.8	20.8	9 18	21 43.15	-12 35.1	1.484	2.399	12.6	20.6
9 28	21 42.68	-2 2.8	2.750	3.583	10.2	21.0	9 28	21 38.48	-13 10.2	1.549	2.386	16.5	20.8
<b>17465</b>	Inawashiroko		8 22.2 253°15	0°1/22.2	18		<b>113953</b>	2002 <i>UK</i>		8 22.2 273°15	12°3/6.1	18	
7 20	22 26.71	-9 43.2	2.306	3.174	11.2	19.1	7 20	22 33.77	-45 48.7	1.969	2.820	13.5	19.2
7 30	22 21.94	-10 14.2	2.222	3.163	8.2	18.9	7 30	22 28.15	-47 58.0	1.932	2.810	12.6	19.1
8 9	22 15.60	-10 53.9	2.162	3.152	4.9	18.7	8 9	22 19.72	-49 48.8	1.918	2.800	12.4	19.1
8 19	22 8.20	-11 38.9	2.130	3.140	1.2	18.4	8 19	22 9.30	-51 11.3	1.926	2.790	13.1	19.1
8 29	22 0.43	-12 24.9	2.126	3.129	2.6	18.5	8 29	21 58.24	-51 58.6	1.955	2.780	14.4	19.2
9 8	21 53.10	-13 7.3	2.150	3.117	6.2	18.7	9 8	21 48.12	-52 8.8	2.004	2.770	16.0	19.3
9 18	21 46.92	-13 42.6	2.200	3.105	9.6	18.9	9 18	21 40.24	-51 44.8	2.069	2.759	17.6	19.4
9 28	21 42.47	-14 7.9	2.274	3.093	12.5	19.1	9 28	21 35.50	-50 51.9	2.148	2.749	19.0	19.5
<b>8812</b>	Kravtsov		8 22.2 357°29	6°4/18.5	18		<b>340476</b>	2006 <i>HZ</i> <sub>47</sub>		8 22.2 39°20	2°1/20.5	17	
7 20	22 25.89	-22 59.7	1.056	1.980	16.8	16.0	7 20	22 27.63	-13 59.0	1.594	2.488	14.0	20.5
7 30	22 22.71	-23 42.0	1.006	1.973	12.6	15.7	7 30	22 23.07	-14 55.0	1.538	2.494	10.1	20.3
8 9	22 16.58	-24 22.6	0.975	1.968	8.4	15.5	8 9	22 16.42	-15 59.0	1.505	2.500	5.8	20.0
8 19	22 8.48	-24 52.0	0.965	1.965	6.4	15.4	8 19	22 8.43	-17 4.4	1.497	2.506	2.2	19.8
8 29	21 59.94	-25 1.3	0.976	1.963	8.8	15.5	8 29	22 0.13	-18 3.7	1.515	2.513	4.6	20.0
9 8	21 52.62	-24 45.9	1.009	1.964	13.0	15.7	9 8	21 52.64	-18 50.4	1.559	2.520	8.7	20.3
9 18	21 47.79	-24 6.1	1.060	1.967	17.3	16.0	9 18	21 46.89	-19 21.1	1.626	2.527	12.6	20.5
9 28	21 46.24	-23 4.8	1.129	1.971	21.0	16.3	9 28	21 43.52	-19 34.3	1.714	2.534	15.9	20.8
<b>31237</b>	1998 <i>CY</i> <sub>4</sub>		8 22.2 242°83	0°5/22.7	18		<b>449067</b>	2012 <i>FN</i> <sub>31</sub>		8 22.2 206°11	7°8/11.6	18	
7 20	22 26.94	-8 8.5	2.088	2.956	12.2	19.0	7 20	22 35.42	-43 24.3	3.110	3.945	9.5	21.9
7 30	22 22.17	-8 34.6	2.015	2.954	9.0	18.8	7 30	22 28.13	-44 21.3	3.061	3.939	8.4	21.8
8 9	22 15.75	-9 10.9	1.965	2.953	5.4	18.6	8 9	22 19.14	-45 5.8	3.037	3.933	7.9	21.7
8 19	22 8.24	-9 54.0	1.941	2.951	1.6	18.3	8 19	22 9.08	-45 33.0	3.037	3.926	8.1	21.7
8 29	22 0.40	-10 39.5	1.945	2.949	2.6	18.4	8 29	21 58.81	-45 39.4	3.064	3.918	8.9	21.8
9 8	21 53.11	-11 22.4	1.977	2.947	6.4	18.6	9 8	21 49.24	-45 24.0	3.114	3.910	10.1	21.9
9 18	21 47.10	-11 58.7	2.034	2.946	9.9	18.8	9 18	21 41.11	-44 48.3	3.186	3.902	11.5	22.0
9 28	21 42.98	-12 25.4	2.115	2.944	13.0	19.0	9 28	21 35.01	-43 55.1	3.277	3.893	12.7	22.1
<b>255154</b>	2005 <i>UL</i> <sub>179</sub>		8 22.2 173°75	0°5/21.6	18		<b>198551</b>	2004 <i>XN</i> <sub>133</sub>		8 22.2 7°66	1°0/21.7	18	
7 20	22 26.44	-11 20.1	2.563	3.432	10.2	21.8	7 20	22 29.74	-13 12.4	1.296	2.195	16.2	18.8
7 30	22 21.54	-11 56.1	2.491	3.434	7.4	21.6	7 30	22 24.99	-13 18.1	1.239	2.195	11.8	18.6
8 9	22 15.26	-12 38.6	2.445	3.435	4.3	21.4	8 9	22 17.70	-13 31.9	1.202	2.197	6.9	18.3
8 19	22 8.11	-13 24.1	2.425	3.436	1.0	21.2	8 19	22 8.77	-13 49.1	1.189	2.200	1.7	18.0
8 29	22 0.71	-14 8.6	2.435	3.437	2.6	21.3	8 29	21 59.48	-14 3.7	1.200	2.203	4.1	18.2
9 8	21 53.77	-14 48.3	2.474	3.437	5.8	21.5	9 8	21 51.19	-14 10.7	1.235	2.207	9.2	18.5
9 18	21 47.89	-15 20.1	2.539	3.438	8.7	21.7	9 18	21 45.04	-14 7.1	1.293	2.213	13.7	18.8
9 28	21 43.59	-15 42.2	2.629	3.438	11.3	21.9	9 28	21 41.75	-13 51.5	1.370	2.219	17.6	19.0
<b>32500</b>	2000 <i>YV</i> <sub>76</sub>		8 22.2 9°87	1°9/23.5	18		<b>259678</b>	2003 <i>XF</i> <sub>8</sub>		8 22.2 315°42	4°3/24.3	18	
7 20	22 24.42	-6 8.0											

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>293068</b>	2006 WE <sub>159</sub>		8 22.2 277°12	0°3/22.0	15		<b>29768</b>	1999 CZ <sub>27</sub>		8 22.2 168°34	6°0/15.9	18	
7 20	22 29.33	-9 38.8	1.550	2.433	14.9	21.6	7 20	22 29.40	-27 11.6	2.127	3.016	11.2	17.9
7 30	22 24.63	-10 15.5	1.467	2.416	11.1	21.3	7 30	22 24.10	-28 33.6	2.073	3.017	8.6	17.8
8 9	22 17.57	-11 5.9	1.406	2.398	6.6	21.0	8 9	22 16.95	-29 51.9	2.045	3.019	6.5	17.6
8 19	22 8.78	-12 5.1	1.370	2.381	1.6	20.7	8 19	22 8.59	-30 59.3	2.043	3.020	6.1	17.6
8 29	21 59.34	-13 6.1	1.360	2.363	3.6	20.8	8 29	21 59.93	-31 49.4	2.068	3.021	7.7	17.7
9 8	21 50.48	-14 1.3	1.375	2.346	8.7	21.0	9 8	21 51.94	-32 18.6	2.119	3.022	10.1	17.9
9 18	21 43.35	-14 45.0	1.415	2.328	13.3	21.3	9 18	21 45.44	-32 26.3	2.193	3.023	12.6	18.1
9 28	21 38.82	-15 13.3	1.475	2.310	17.2	21.5	9 28	21 41.07	-32 13.9	2.286	3.023	14.8	18.2
<b>41611</b>	2000 SY <sub>120</sub>		8 22.2 296°76	4°2/18.9	18		<b>45225</b>	1999 XZ <sub>212</sub>		8 22.2 304°12	0°8/21.6	18	
7 20	22 30.27	-19 10.5	1.607	2.503	13.7	19.0	7 20	22 26.50	-9 8.6	1.358	2.251	16.0	18.9
7 30	22 25.47	-20 7.1	1.518	2.473	10.2	18.7	7 30	22 22.77	-10 11.1	1.284	2.238	11.8	18.6
8 9	22 18.16	-21 9.4	1.451	2.443	6.4	18.4	8 9	22 16.56	-11 31.5	1.231	2.225	6.9	18.3
8 19	22 8.95	-22 9.7	1.409	2.412	4.2	18.2	8 19	22 8.57	-13 2.8	1.202	2.213	1.7	17.9
8 29	21 58.93	-22 59.8	1.393	2.381	6.5	18.3	8 29	21 59.93	-14 35.5	1.197	2.200	4.2	18.1
9 8	21 49.42	-23 32.6	1.402	2.350	10.7	18.5	9 8	21 51.98	-15 59.2	1.218	2.188	9.5	18.4
9 18	21 41.64	-23 44.5	1.433	2.319	14.9	18.6	9 18	21 45.91	-17 6.1	1.261	2.177	14.3	18.6
9 28	21 36.59	-23 34.9	1.484	2.288	18.7	18.8	9 28	21 42.61	-17 51.9	1.324	2.166	18.5	18.8
<b>227444</b>	2005 WS <sub>38</sub>		8 22.2 203°75	6°7/15.6	18		<b>120780</b>	1998 EY <sub>10</sub>		8 22.2 47°85	4°1/19.5	17	
7 20	22 31.16	-27 11.7	1.908	2.799	12.2	21.2	7 20	22 32.59	-18 30.6	1.278	2.181	16.0	19.0
7 30	22 25.63	-28 45.9	1.851	2.796	9.4	21.0	7 30	22 26.72	-19 28.4	1.254	2.212	11.5	18.8
8 9	22 17.96	-30 16.7	1.819	2.792	7.2	20.9	8 9	22 18.48	-20 27.6	1.251	2.244	6.9	18.7
8 19	22 8.84	-31 35.5	1.813	2.789	6.8	20.8	8 19	22 8.93	-21 19.6	1.272	2.277	4.1	18.6
8 29	21 59.30	-32 34.6	1.833	2.784	8.6	20.9	8 29	21 59.46	-21 56.8	1.318	2.309	6.3	18.8
9 8	21 50.49	-33 9.5	1.878	2.780	11.3	21.1	9 8	21 51.37	-22 15.1	1.388	2.342	10.3	19.1
9 18	21 43.37	-33 19.4	1.946	2.775	14.0	21.3	9 18	21 45.58	-22 14.0	1.480	2.375	14.0	19.4
9 28	21 38.67	-33 6.4	2.032	2.769	16.4	21.4	9 28	21 42.60	-21 55.0	1.592	2.408	17.1	19.7
<b>401266</b>	2012 BZ <sub>131</sub>		8 22.2 178°51	3°6/26.3	18		<b>506609</b>	2006 BS <sub>196</sub>		8 22.2 241°33	0°7/22.9	18	
7 20	22 26.52	+ 2 22.9	2.687	3.499	11.4	21.3	7 20	22 28.56	- 7 1.7	1.962	2.826	13.0	22.6
7 30	22 21.56	+ 2 26.9	2.605	3.500	9.1	21.1	7 30	22 23.59	- 7 37.4	1.877	2.814	9.7	22.4
8 9	22 15.28	+ 2 17.6	2.546	3.501	6.6	20.9	8 9	22 16.74	- 8 26.0	1.815	2.802	5.9	22.1
8 19	22 8.15	+ 1 56.0	2.514	3.501	4.3	20.8	8 19	22 8.58	- 9 23.9	1.780	2.789	1.8	21.8
8 29	22 0.76	+ 1 24.2	2.510	3.501	3.7	20.8	8 29	21 59.94	-10 25.6	1.772	2.776	2.8	21.8
9 8	21 53.77	+ 0 45.4	2.534	3.501	5.5	20.9	9 8	21 51.79	-11 25.2	1.792	2.763	6.9	22.1
9 18	21 47.76	+ 0 3.5	2.586	3.500	7.9	21.0	9 18	21 44.99	-12 17.3	1.838	2.749	10.8	22.3
9 28	21 43.22	- 0 37.6	2.663	3.500	10.4	21.2	9 28	21 40.26	-12 58.2	1.907	2.734	14.2	22.5
<b>522938</b>	2016 PQ <sub>112</sub>		8 22.2 350°78	0°9/21.5	18		<b>221763</b>	2007 FH <sub>40</sub>		8 22.3 30°97	0°9/23.2	18	
7 20	22 26.90	-11 16.7	1.553	2.443	14.5	21.0	7 20	22 24.09	- 5 35.1	1.873	2.743	13.3	20.1
7 30	22 22.65	-11 56.9	1.487	2.440	10.6	20.8	7 30	22 20.21	- 6 22.4	1.812	2.751	9.9	19.9
8 9	22 16.26	-12 48.3	1.444	2.438	6.1	20.5	8 9	22 14.66	- 7 23.7	1.774	2.760	6.0	19.7
8 19	22 8.43	-13 45.0	1.425	2.436	1.5	20.2	8 19	22 8.04	- 8 34.7	1.761	2.770	2.0	19.5
8 29	22 0.19	-14 40.3	1.432	2.434	3.8	20.4	8 29	22 1.16	- 9 49.1	1.775	2.779	2.6	19.5
9 8	21 52.69	-15 27.3	1.464	2.433	8.4	20.6	9 8	21 54.90	-11 0.3	1.816	2.790	6.6	19.8
9 18	21 46.90	-16 1.5	1.520	2.432	12.6	20.9	9 18	21 50.00	-12 2.9	1.883	2.800	10.2	20.1
9 28	21 43.55	-16 20.1	1.596	2.432	16.1	21.1	9 28	21 47.03	-12 53.0	1.972	2.811	13.4	20.3
<b>57771</b>	2001 VK <sub>48</sub>		8 22.2 43°20	10°6/13.7	18		<b>414407</b>	2009 BE <sub>87</sub>		8 22.3 49°00	0°1/22.2	17	
7 20	22 31.29	-32 51.5	1.330	2.233	15.5	17.4	7 20	22 32.51	-10 19.6	1.101	1.999	18.4	20.2
7 30	22 26.27	-34 46.9	1.305	2.247	12.7	17.3	7 30	22 27.15	-10 34.0	1.059	2.014	13.5	19.9
8 9	22 18.47	-36 28.4	1.300	2.261	10.9	17.2	8 9	22 19.00	-11 1.7	1.035	2.029	7.9	19.7
8 19	22 8.95	-37 44.1	1.318	2.275	10.9	17.3	8 19	22 9.13	-11 36.7	1.034	2.045	1.9	19.4
8 29	21 59.24	-38 25.5	1.359	2.290	12.7	17.4	8 29	21 59.06	-12 11.4	1.057	2.061	4.0	19.6
9 8	21 50.87	-38 30.7	1.420	2.306	15.3	17.6	9 8	21 50.32	-12 38.9	1.103	2.078	9.6	19.9
9 18	21 44.99	-38 2.9	1.501	2.322	17.8	17.8	9 18	21 44.08	-12 54.9	1.171	2.095	14.4	20.3
9 28	21 42.24	-37 7.9	1.597	2.338	20.1	18.1	9 28	21 41.02	-12 57.0	1.258	2.113	18.4	20.6
<b>184413</b>	2005 MS <sub>32</sub>		8 22.2 348°09	3°3/20.3	18		<b>320382</b>	2007 UT <sub>11</sub>		8 22.3 279°40	6°0/17.9	18	
7 20	22 25.90	-16 10.0	1.051	1.970	17.3	19.1	7 20	22 32.11	-21 58.8	1.374	2.277	15.1	20.2
7 30	22 22.77	-16 44.7	0.992	1.960	12.7	18.8	7 30	22 27.06	-23 13.2	1.305	2.262	11.3	19.9
8 9	22 16.71	-17 27.6	0.953	1.951	7.5	18.5	8 9	22 19.18	-24 30.4	1.258	2.246	7.6	19.7
8 19	22 8.60	-18 10.7	0.934	1.943	3.4	18.2	8 19	22 9.26	-25 40.3	1.234	2.231	6.0	19.6
8 29	21 59.88	-18 44.6	0.937	1.937	6.2	18.4	8 29	21 58.63	-26 32.6	1.235	2.215	8.4	19.7
9 8	21 52.23	-19 2.0	0.962	1.932	11.5	18.7	9 8	21 48.85	-27 0.3	1.260	2.199	12.5	19.9
9 18	21 46.98	-18 59.2	1.007	1.929	16.5	18.9	9 18	21 41.25	-27 1.2	1.305	2.184	16.6	20.1
9 28	21 45.02	-18 35.9	1.069	1.927	20.8	19.2	9 28	21 36.79	-26 37.0	1.369	2.168	20.2	20.3
<b>206094</b>	2002 RF <sub>155</sub>		8 22.2 165°62	1°9/24.0	18		<b>326239</b>	2012 DT <sub>20</sub>		8 22.3 205°96	0°7/23.0	18	
7 20	22 27.57	- 3 51.3	2.060	2.912	13.0	20.7	7 20	22 25.32	- 6 56.6	2.561	3.418	10.6	21.3
7 30	22 22.65	- 4 13.1	1.986	2.914	9.8	20.5	7 30	22 20.78	- 7 29.3	2.482	3.416	7.9	21.1
8 9	22 16.06	- 4 48.3	1.936	2.916	6.3	20.2	8 9	22 14.89	- 8 11.5	2.428	3.413	4.8	20.9
8 19	22 8.37	- 5 34.3	1.912	2.917	2.8	20.0	8 19	22 8.11	- 9 0.3	2.401	3.410	1.5	20.7
8 29	22 0.36	- 6 26.7	1.915	2.919	2.8	20.0	8 29	22 1.07	- 9 51.8	2.402	3.407	2.2	20.7
9 8	21 52.91	- 7 20.2	1.946	2.920	6.3	20.3	9 8	21 54.43	-10 41.8	2.433	3.403	5.4	20.9
9 18	21 46.76	- 8 10.0	2.004	2.921	9.8	20.5	9 18	21 48.80	-11 26.6	2.491	3.400	8.4	21.1
9 28	21 42.51	- 8 52.0	2.085	2.921	12.8	20.7	9 28	21 44.70	-12 3.2	2.573	3.396	11.1	21.3
<b>66898</b>	1999 VS <sub>114</sub>		8 22.2 270°68	6°1/27.1	18		<b>130471</b>	2000 QJ <sub>85</sub>		8 22.3 354°00	2°7/24.0	18	
7 20	22 28.60												

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>476189</b>	2007 <i>UP</i> <sub>24</sub>	8 22.3 271° 07' 2.3"/20.2 18											
7 20	22 28.42	-15 26.7	1.977	2.862	12.1	21.7	<b>170685</b>	2004 <i>AS</i> <sub>8</sub>	8 22.3 267° 27' 2.3"/24.5 18				
7 30	22 23.55	-16 16.2	1.894	2.845	8.8	21.5	7 20	22 26.49	-2 7.2	2.068	2.915	13.1	20.8
8 9	22 16.76	-17 12.3	1.835	2.828	5.2	21.2	7 30	22 22.07	-2 38.0	1.974	2.897	10.1	20.5
8 19	22 8.62	-18 9.5	1.802	2.810	2.3	21.0	8 9	22 15.89	-3 25.1	1.903	2.879	6.7	20.3
8 29	21 59.99	-19 1.6	1.797	2.793	4.4	21.1	8 19	22 8.45	-4 26.1	1.857	2.861	3.2	20.0
9 8	21 51.86	-19 43.2	1.819	2.775	8.1	21.3	8 29	22 0.52	-5 36.4	1.839	2.842	3.0	20.0
9 18	21 45.11	-20 10.8	1.866	2.757	11.8	21.5	9 8	21 52.97	-6 49.9	1.849	2.823	6.5	20.2
9 28	21 40.47	-20 22.6	1.935	2.739	14.9	21.7	9 18	21 46.64	-8 0.7	1.885	2.804	10.2	20.4
							9 28	21 42.20	-9 3.2	1.945	2.784	13.5	20.5
<b>390086</b>	2012 <i>UJ</i> <sub>151</sub>	8 22.3 241° 47' 2° 8"/19.7 18											
7 20	22 29.05	-16 58.1	1.926	2.814	12.2	21.6	<b>263717</b>	2008 <i>HY</i> <sub>41</sub>	8 22.3 99° 28' 1° 3"/23.3 17				
7 30	22 23.96	-17 50.4	1.856	2.808	8.9	21.4	7 20	22 30.90	-6 2.7	1.606	2.474	15.2	20.9
8 9	22 16.96	-18 47.4	1.810	2.802	5.3	21.2	7 30	22 25.39	-6 28.8	1.550	2.488	11.4	20.7
8 19	22 8.66	-19 43.3	1.790	2.796	2.8	21.0	8 9	22 17.80	-7 9.3	1.516	2.502	7.0	20.5
8 29	21 59.98	-20 31.8	1.798	2.790	4.8	21.1	8 19	22 8.90	-8 0.0	1.507	2.515	2.4	20.3
9 8	21 51.92	-21 7.7	1.832	2.784	8.4	21.3	8 29	21 59.74	-8 54.7	1.524	2.529	3.0	20.3
9 18	21 45.34	-21 28.4	1.891	2.777	11.9	21.5	9 8	21 51.45	-9 47.1	1.568	2.542	7.4	20.6
9 28	21 40.92	-21 32.8	1.971	2.770	14.9	21.7	9 18	21 44.92	-10 31.8	1.637	2.554	11.5	20.9
							9 28	21 40.80	-11 5.1	1.728	2.567	14.9	21.2
<b>219088</b>	1998 <i>QV</i> <sub>103</sub>	8 22.3 348° 24' 8° 0"/16.1 18											
7 20	22 37.21	-35 47.9	2.086	2.955	12.2	19.2	<b>206543</b>	2003 <i>UN</i> <sub>198</sub>	8 22.3 291° 79' 0° 9"/23.0 18				
7 30	22 29.81	-36 21.5	2.032	2.953	10.0	19.0	7 20	22 26.99	-6 38.6	1.765	2.636	13.9	20.5
8 9	22 20.27	-36 42.8	2.002	2.951	8.4	18.9	7 30	22 22.75	-7 11.4	1.673	2.614	10.5	20.3
8 19	22 9.45	-36 45.4	1.997	2.949	8.1	18.9	8 9	22 16.44	-7 59.3	1.604	2.591	6.5	20.0
8 29	21 58.49	-36 25.1	2.018	2.948	9.3	19.0	8 19	22 8.62	-8 58.6	1.559	2.569	2.1	19.7
9 8	21 48.57	-35 41.4	2.064	2.947	11.3	19.1	8 29	22 0.19	-10 3.7	1.542	2.546	3.0	19.7
9 18	21 40.59	-34 36.7	2.133	2.946	13.5	19.3	9 8	21 52.19	-11 7.7	1.551	2.524	7.5	19.9
9 28	21 35.16	-33 15.0	2.222	2.945	15.6	19.4	9 18	21 45.62	-12 4.3	1.584	2.501	11.8	20.1
							9 28	21 41.30	-12 48.9	1.640	2.479	15.6	20.3
<b>512839</b>	2016 <i>UQ</i> <sub>135</sub>	8 22.3 121° 26' 2° 4"/24.9 18											
7 20	22 26.12	-1 19.0	2.242	3.082	12.5	21.5	<b>333160</b>	2012 <i>BE</i> <sub>125</sub>	8 22.3 207° 78' 3° 4"/24.4 17				
7 30	22 21.47	-1 44.7	2.171	3.090	9.6	21.4	7 20	22 32.87	-3 6.8	1.465	2.326	16.8	21.0
8 9	22 15.34	-2 24.8	2.124	3.097	6.4	21.2	7 30	22 27.19	-2 52.6	1.395	2.324	13.0	20.7
8 19	22 8.24	-3 16.7	2.103	3.104	3.3	21.0	8 9	22 19.08	-2 55.3	1.345	2.323	8.7	20.5
8 29	22 0.89	-4 16.3	2.109	3.111	2.9	21.0	8 19	22 9.27	-3 13.4	1.318	2.321	4.5	20.2
9 8	21 54.06	-5 18.4	2.144	3.118	5.8	21.2	8 29	21 58.96	-3 43.0	1.317	2.319	4.2	20.2
9 18	21 48.40	-6 18.1	2.206	3.124	8.9	21.4	9 8	21 49.44	-4 18.4	1.342	2.317	8.3	20.4
9 28	21 44.46	-7 11.1	2.292	3.131	11.8	21.6	9 18	21 41.84	-4 53.5	1.390	2.314	12.6	20.7
							9 28	21 36.99	-5 22.9	1.460	2.312	16.5	20.9
<b>355321</b>	2007 <i>SF</i> <sub>22</sub>	8 22.3 269° 39' 0° 5"/21.9 16											
7 20	22 30.85	-11 51.9	2.125	2.995	11.9	21.8	<b>390098</b>	2012 <i>UF</i> <sub>168</sub>	8 22.3 205° 29' 5° 4"/16.2 18				
7 30	22 25.25	-12 9.5	2.029	2.971	8.8	21.6	7 20	22 30.48	-26 23.1	2.339	3.223	10.5	21.5
8 9	22 17.75	-12 34.3	1.956	2.947	5.2	21.3	7 30	22 24.85	-27 42.8	2.275	3.218	8.0	21.3
8 19	22 8.89	-13 2.9	1.911	2.922	1.3	21.0	8 9	22 17.44	-29 0.0	2.237	3.212	6.0	21.2
8 29	21 59.48	-13 31.0	1.894	2.897	3.0	21.1	8 19	22 8.84	-30 8.2	2.227	3.206	5.5	21.1
9 8	21 50.48	-13 54.4	1.905	2.871	7.0	21.3	8 29	21 59.87	-31 1.2	2.244	3.199	7.0	21.2
9 18	21 42.76	-14 9.8	1.943	2.845	10.8	21.5	9 8	21 51.45	-31 35.2	2.287	3.192	9.4	21.3
9 28	21 37.07	-14 15.2	2.003	2.818	14.1	21.7	9 18	21 44.39	-31 49.2	2.355	3.184	11.9	21.5
							9 28	21 39.31	-31 44.0	2.443	3.175	14.1	21.7
<b>385817</b>	2006 <i>EW</i> <sub>69</sub>	8 22.3 160° 64' 4° 5"/18.5 16											
7 20	22 34.47	-24 11.4	2.141	3.021	11.5	21.8	<b>360173</b>	2013 <i>CF</i> <sub>114</sub>	8 22.3 288° 71' 1° 6"/23.8 18				
7 30	22 27.66	-24 52.2	2.083	3.027	8.5	21.6	7 20	22 25.89	-4 21.4	1.994	2.853	13.1	20.8
8 9	22 18.98	-25 30.1	2.050	3.032	5.8	21.4	7 30	22 21.59	-4 50.5	1.914	2.846	9.9	20.6
8 19	22 9.15	-25 59.5	2.043	3.036	4.5	21.4	8 9	22 15.58	-5 33.9	1.857	2.839	6.3	20.4
8 29	21 59.10	-26 15.7	2.066	3.040	6.0	21.5	8 19	22 8.39	-6 28.5	1.825	2.832	2.6	20.1
9 8	21 49.83	-26 15.9	2.115	3.044	8.8	21.6	8 29	22 0.81	-7 29.6	1.821	2.825	2.7	20.1
9 18	21 42.17	-25 59.9	2.189	3.047	11.6	21.8	9 8	21 53.73	-8 31.3	1.844	2.818	6.4	20.4
9 28	21 36.70	-25 29.2	2.285	3.049	14.1	22.0	9 18	21 47.93	-9 28.1	1.893	2.812	10.1	20.6
							9 28	21 44.06	-10 15.8	1.965	2.805	13.4	20.8
<b>53671</b>	2000 <i>DO</i> <sub>71</sub>	8 22.3 348° 35' 1° 8"/23.5 18											
7 20	22 22.41	-5 8.8	1.081	1.981	18.5	17.6	<b>281237</b>	2007 <i>JE</i> <sub>42</sub>	8 22.3 75° 54' 10° 9"/9.7 18				
7 30	22 20.09	-5 34.7	1.017	1.971	14.1	17.3	7 20	22 30.79	-35 25.5	1.641	2.532	13.8	19.6
8 9	22 15.13	-6 23.6	0.971	1.962	8.8	17.0	7 30	22 25.94	-38 13.8	1.613	2.539	11.8	19.5
8 19	22 8.27	-7 31.1	0.945	1.955	3.3	16.7	8 9	22 18.44	-40 48.5	1.609	2.547	10.9	19.4
8 29	22 0.80	-8 48.6	0.943	1.949	3.8	16.7	8 19	22 9.14	-42 56.7	1.630	2.555	11.5	19.5
9 8	21 54.19	-10 5.1	0.962	1.944	9.5	17.0	8 29	21 59.32	-44 29.0	1.675	2.563	13.3	19.6
9 18	21 49.71	-11 11.0	1.002	1.941	14.8	17.3	9 8	21 50.42	-45 22.2	1.741	2.571	15.5	19.8
9 28	21 48.26	-11 59.2	1.061	1.940	19.3	17.5	9 18	21 43.68	-45 38.2	1.825	2.579	17.6	20.0
							9 28	21 39.90	-45 22.4	1.924	2.587	19.4	20.2
<b>37795</b>	1997 <i>WC</i> <sub>8</sub>	8 22.3 309° 31' 3° 7"/24.7 18											
7 20	22 27.37	-1 49.1	1.252	2.126	18.3	18.4	<b>476596</b>	2008 <i>SU</i> <sub>49</sub>	8 22.3 347° 09' 3° 5"/24.8 16				
7 30	22 23.59	-1 54.4	1.175	2.112	14.3	18.1	7 20	22 19.38	-2 6.1	1.055	1.952	19.2	21.2
8 9	22 17.17	-2 22.9	1.118	2.099	9.6	17.8	7 30	22 17.95	-2 18.9	0.987	1.936	14.9	20.9
8 19	22 8.81	-3 12.7	1.082	2.086	5.0	17.5	8 9	22 13.94	-2 58.6	0.936	1.923	10.0	20.6
8 29	21 59.69	-4 18.1	1.070	2.073	4.5	17.4	8 19	22 8.06	-4 2.8	0.905	1.911	5.0	20.3
9 8	21 51.28	-5 30.4	1.081	2.060	9.0	17.6	8 29	22 1.50	-5 24.2	0.895	1.901	4.4	20.2
9 18	21 44.87	-6 40.2	1.114	2.049	14.1	17.9	9 8	21 55.74	-6 51.4	0.908	1.892	9.3	20.5
9 28	21 41.43	-7 39.4	1.168	2.037	18.6	18.1	9 18	21 52.03	-8 13.1	0.940	1.886	14.6	20.8
							9 28	21 51.33</					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>479832</b>	2014 <i>FC</i> <sub>66</sub>		8 22.3 220°42'	4.3/26.9	18		<b>176095</b>	2001 <i>AK</i> <sub>34</sub>		8 22.3 304°65'	1.3/21.6	18	
7 20	22 27.99	+ 4 35.6	2.434	3.237	12.7	22.1	7 20	22 32.55	-13 46.3	1.285	2.181	16.4	19.6
7 30	22 22.91	+ 4 27.8	2.340	3.227	10.3	21.9	7 30	22 27.49	-13 55.2	1.209	2.164	12.2	19.3
8 9	22 16.28	+ 4 3.2	2.268	3.216	7.6	21.8	8 9	22 19.55	-14 12.3	1.153	2.148	7.2	19.0
8 19	22 8.59	+ 3 22.5	2.221	3.205	5.2	21.6	8 19	22 9.52	-14 32.5	1.121	2.131	2.0	18.6
8 29	22 0.50	+ 2 28.1	2.203	3.192	4.4	21.5	8 29	21 58.74	-14 49.4	1.113	2.115	4.5	18.8
9 8	21 52.77	+ 1 24.6	2.213	3.179	6.2	21.6	9 8	21 48.76	-14 57.0	1.129	2.100	10.0	19.0
9 18	21 46.11	+ 0 17.0	2.251	3.166	8.9	21.8	9 18	21 40.98	-14 52.0	1.167	2.085	15.1	19.3
9 28	21 41.11	- 0 49.3	2.313	3.152	11.7	21.9	9 28	21 36.37	-14 32.8	1.224	2.070	19.4	19.5
<b>17783</b>	1998 <i>FO</i> <sub>29</sub>		8 22.3 255°10'	2.4/20.6	18		<b>392443</b>	2010 <i>TY</i> <sub>80</sub>		8 22.3 265°26'	15.9/5.1	17	
7 20	22 34.31	-17 27.6	1.864	2.745	12.9	17.9	7 20	22 27.29	+23 49.3	1.214	1.959	25.9	20.9
7 30	22 27.97	-17 45.7	1.784	2.732	9.4	17.7	7 30	22 23.96	+24 35.8	1.133	1.945	23.7	20.6
8 9	22 19.44	-18 6.6	1.726	2.717	5.6	17.4	8 9	22 17.69	+24 37.5	1.063	1.931	21.1	20.4
8 19	22 9.40	-18 25.4	1.695	2.703	2.5	17.2	8 19	22 9.11	+23 44.7	1.008	1.917	18.4	20.2
8 29	21 58.87	-18 37.1	1.692	2.688	4.5	17.3	8 29	21 59.48	+21 52.8	0.970	1.902	16.4	20.0
9 8	21 48.99	-18 37.8	1.716	2.673	8.4	17.5	9 8	21 50.47	+19 6.6	0.952	1.888	16.0	19.9
9 18	21 40.76	-18 26.0	1.765	2.657	12.3	17.7	9 18	21 43.61	+15 40.6	0.954	1.873	17.6	20.0
9 28	21 34.95	-18 1.4	1.836	2.642	15.5	17.9	9 28	21 40.12	+11 56.4	0.978	1.857	20.5	20.1
<b>226198</b>	2002 <i>UN</i> <sub>3</sub>		8 22.3 187°56'	6.5/18.5	18		<b>476578</b>	2008 <i>RX</i> <sub>57</sub>		8 22.3 312°74'	0.6/22.8	18	
7 20	22 44.63	-22 57.2	1.304	2.192	16.8	22.0	7 20	22 26.75	- 7 21.5	1.509	2.391	15.3	21.4
7 30	22 36.35	-24 12.2	1.245	2.193	12.6	21.7	7 30	22 22.79	- 7 55.6	1.432	2.379	11.4	21.2
8 9	22 24.71	-25 27.0	1.208	2.193	8.5	21.5	8 9	22 16.57	- 8 45.6	1.377	2.367	6.9	20.9
8 19	22 10.76	-26 29.7	1.196	2.191	6.5	21.4	8 19	22 8.75	- 9 47.1	1.345	2.355	2.0	20.5
8 29	21 56.22	-27 9.5	1.209	2.187	8.9	21.5	8 29	22 0.36	-10 53.3	1.339	2.343	3.3	20.6
9 8	21 42.99	-27 21.0	1.247	2.182	13.1	21.7	9 8	21 52.61	-11 56.3	1.358	2.332	8.2	20.9
9 18	21 32.58	-27 4.8	1.308	2.175	17.3	22.0	9 18	21 46.54	-12 49.5	1.400	2.322	12.8	21.1
9 28	21 25.92	-26 25.1	1.386	2.167	20.9	22.2	9 28	21 42.99	-13 28.3	1.464	2.311	16.7	21.3
<b>221036</b>	2005 <i>QK</i> <sub>66</sub>		8 22.3 38°34'	4.1/25.6	18		<b>75870</b>	2000 <i>CV</i> <sub>21</sub>		8 22.3 62°40'	2.1/23.9	18	
7 20	22 25.48	+ 1 26.1	1.168	2.038	19.6	19.9	7 20	22 29.17	- 4 41.3	1.746	2.608	14.5	18.9
7 30	22 21.94	+ 0 48.0	1.122	2.054	15.2	19.7	7 30	22 24.04	- 4 47.7	1.687	2.620	11.0	18.7
8 9	22 16.00	- 0 18.6	1.094	2.072	10.3	19.4	8 9	22 17.02	- 5 8.1	1.650	2.632	7.0	18.5
8 19	22 8.53	- 1 48.8	1.088	2.090	5.6	19.2	8 19	22 8.81	- 5 39.5	1.638	2.644	3.1	18.3
8 29	22 0.78	- 3 33.1	1.106	2.109	4.5	19.2	8 29	22 0.35	- 6 17.4	1.653	2.656	3.1	18.3
9 8	21 54.09	- 5 19.6	1.147	2.128	8.4	19.5	9 8	21 52.64	- 6 56.6	1.694	2.669	6.9	18.6
9 18	21 49.46	- 6 57.5	1.212	2.148	13.0	19.8	9 18	21 46.52	- 7 32.3	1.760	2.681	10.6	18.8
9 28	21 47.57	- 8 18.8	1.297	2.169	16.9	20.1	9 28	21 42.58	- 8 0.5	1.849	2.694	13.9	19.1
<b>257129</b>	2008 <i>GK</i> <sub>118</sub>		8 22.3 30°38'	1.5/23.7	18		<b>136239</b>	2003 <i>WG</i> <sub>142</sub>		8 22.3 321°38'	1.5/21.4	18	
7 20	22 26.10	- 5 9.5	2.073	2.932	12.6	21.1	7 20	22 27.27	-12 42.6	1.107	2.017	17.4	19.3
7 30	22 21.63	- 5 31.1	2.002	2.934	9.5	20.9	7 30	22 24.01	-13 6.4	1.029	1.991	13.0	18.9
8 9	22 15.55	- 6 5.1	1.954	2.936	6.0	20.7	8 9	22 17.73	-13 43.4	0.969	1.966	7.7	18.5
8 19	22 8.41	- 6 48.5	1.932	2.939	2.4	20.4	8 19	22 9.12	-14 27.6	0.931	1.942	2.1	18.1
8 29	22 0.98	- 7 37.0	1.937	2.941	2.6	20.5	8 29	21 59.53	-15 10.4	0.915	1.919	5.0	18.2
9 8	21 54.08	- 8 25.7	1.970	2.944	6.1	20.7	9 8	21 50.66	-15 43.0	0.922	1.897	11.1	18.5
9 18	21 48.46	- 9 9.9	2.029	2.947	9.6	20.9	9 18	21 44.04	-15 59.3	0.948	1.876	16.7	18.7
9 28	21 44.67	- 9 46.0	2.111	2.949	12.6	21.1	9 28	21 40.84	-15 56.2	0.992	1.856	21.6	19.0
<b>62436</b>	2000 <i>SR</i> <sub>192</sub>		8 22.3 27°13'	6.2/17.1	18		<b>75798</b>	2000 <i>AS</i> <sub>232</sub>		8 22.3 275°11'	4.0/19.0	18	
7 20	22 30.81	-27 20.1	1.874	2.766	12.3	18.8	7 20	22 29.75	-17 42.2	1.509	2.407	14.3	19.1
7 30	22 25.30	-28 14.7	1.823	2.769	9.4	18.6	7 30	22 25.06	-18 55.8	1.440	2.397	10.5	18.9
8 9	22 17.77	-29 4.1	1.796	2.773	7.0	18.5	8 9	22 17.94	-20 16.2	1.395	2.387	6.4	18.6
8 19	22 8.96	-29 41.3	1.794	2.777	6.2	18.5	8 19	22 9.11	-21 35.0	1.373	2.378	4.0	18.4
8 29	21 59.93	-30 0.9	1.818	2.781	7.8	18.6	8 29	21 59.71	-22 42.7	1.378	2.368	6.4	18.6
9 8	21 51.75	-29 59.9	1.867	2.786	10.4	18.7	9 8	21 51.05	-23 32.0	1.408	2.358	10.6	18.8
9 18	21 45.30	-29 38.7	1.939	2.790	13.2	18.9	9 18	21 44.27	-23 59.2	1.460	2.348	14.6	19.0
9 28	21 41.19	-28 59.3	2.031	2.795	15.6	19.1	9 28	21 40.20	-24 3.9	1.531	2.338	18.1	19.2
<b>427667</b>	2004 <i>BF</i> <sub>64</sub>		8 22.3 244°42'	0.1/22.3	17		<b>247002</b>	1999 <i>VF</i> <sub>64</sub>		8 22.3 205°80'	6.8/13.9	18	
7 20	22 31.94	- 9 32.9	1.741	2.613	14.1	22.6	7 20	22 31.36	-35 11.1	2.736	3.604	9.7	20.6
7 30	22 26.37	- 9 57.8	1.657	2.599	10.4	22.3	7 30	22 25.35	-36 14.6	2.682	3.600	8.0	20.5
8 9	22 18.59	-10 34.0	1.595	2.585	6.2	22.1	8 9	22 17.70	-37 9.7	2.652	3.595	6.9	20.4
8 19	22 9.23	-11 17.6	1.559	2.570	1.6	21.7	8 19	22 8.99	-37 51.0	2.649	3.590	6.9	20.4
8 29	21 59.28	-12 2.8	1.551	2.554	3.2	21.8	8 29	22 0.03	-38 14.1	2.673	3.585	8.0	20.5
9 8	21 49.90	-12 43.8	1.569	2.538	7.9	22.1	9 8	21 51.66	-38 17.2	2.721	3.580	9.7	20.7
9 18	21 42.12	-13 15.8	1.612	2.522	12.2	22.3	9 18	21 44.61	-38 0.7	2.793	3.574	11.5	20.6
9 28	21 36.77	-13 35.8	1.678	2.505	15.8	22.5	9 28	21 39.45	-37 26.4	2.884	3.567	13.1	20.8
<b>130366</b>	2000 <i>GT</i> <sub>116</sub>		8 22.3 249°54'	1.2/23.7	18		<b>48923</b>	1998 <i>OY</i> <sub>11</sub>		8 22.3 356°72'	3.4/20.3	18	
7 20	22 25.28	- 5 25.9	2.518	3.371	10.9	20.7	7 20	22 23.44	-15 49.7	0.922	1.850	18.3	17.6
7 30	22 20.84	- 5 48.8	2.436	3.365	8.2	20.5	7 30	22 21.24	-16 28.9	0.871	1.843	13.3	17.3
8 9	22 15.02	- 6 22.1	2.377	3.359	5.1	20.3	8 9	22 15.99	-17 17.7	0.838	1.838	7.9	17.0
8 19	22 8.29	- 7 3.3	2.345	3.353	2.0	20.1	8 19	22 8.65	-18 7.1	0.825	1.834	3.5	16.7
8 29	22 1.26	- 7 48.9	2.342	3.346	2.2	20.1	8 29	22 0.75	-18 46.5	0.832	1.833	6.5	16.9
9 8	21 54.62	- 8 34.7	2.368	3.340	5.4	20.3	9 8	21 54.02	-19 7.7	0.860	1.833	12.0	17.2
9 18	21 49.01	- 9 17.0	2.420	3.334	8.5	20.5	9 18	21 49.83	-19 6.8	0.907	1.836	17.1	17.5
9 28	21 44.93	- 9 52.6	2.497	3.327	11.2	20.7	9 28	21 49.01	-18 43.5	0.970	1.840	21.4	17.8
<b>319371</b>	2006 <i>DG</i> <sub>72</sub>		8 22.3 183°11'	2.7/19.5	18		<b>470371</b>	2007 <i>TV</i> <sub>11</sub>					



EPHEMERIDES

8 22.3

8 22.3

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>225918</b>	2002 AZ <sub>96</sub>		8 22.3 270°84	3°2/19.5	18		<b>306386</b>	1994 CF		8 22.3 181°14	3°0/24.9	18	
7 20	22 29.04	-16 31.2	1.701	2.594	13.3	20.4	7 20	22 30.59	-1 23.1	2.085	2.921	13.4	21.0
7 30	22 24.34	-17 38.5	1.626	2.581	9.7	20.1	7 30	22 24.96	-1 24.7	2.007	2.922	10.4	20.8
8 9	22 17.44	-18 53.1	1.574	2.567	5.8	19.9	8 9	22 17.59	-1 40.6	1.952	2.923	7.1	20.6
8 19	22 9.00	-20 7.8	1.548	2.554	3.2	19.7	8 19	22 9.04	-2 9.3	1.923	2.923	3.9	20.4
8 29	22 0.00	-21 14.5	1.548	2.540	5.5	19.8	8 29	22 0.14	-2 47.3	1.922	2.922	3.4	20.4
9 8	21 51.61	-22 6.4	1.575	2.526	9.5	20.0	9 8	21 51.78	-3 30.2	1.949	2.921	6.4	20.6
9 18	21 44.85	-22 39.5	1.625	2.513	13.4	20.2	9 18	21 44.76	-4 13.2	2.003	2.920	9.8	20.8
9 28	21 40.52	-22 52.5	1.695	2.499	16.7	20.4	9 28	21 39.70	-4 51.8	2.080	2.918	12.8	21.0
<b>267286</b>	2001 SU <sub>63</sub>		8 22.3 267°80	15°6/14.2	16		<b>94031</b>	2000 XF <sub>40</sub>		8 22.3 214°69	0°1/22.3	18	
7 20	22 51.69	-42 48.7	1.180	2.049	19.5	19.9	7 20	22 34.98	-11 44.2	1.951	2.818	13.0	19.4
7 30	22 42.65	-44 6.6	1.128	2.035	17.3	19.7	7 30	22 28.29	-11 36.8	1.874	2.814	9.6	19.1
8 9	22 28.88	-44 59.6	1.093	2.021	15.8	19.6	8 9	22 19.59	-11 35.3	1.821	2.809	5.7	18.9
8 19	22 11.92	-45 11.0	1.078	2.006	15.8	19.5	8 19	22 9.56	-11 36.9	1.794	2.804	1.5	18.6
8 29	21 54.38	-44 29.9	1.084	1.991	17.3	19.6	8 29	21 59.14	-11 38.3	1.796	2.799	2.9	18.7
9 8	21 39.08	-42 57.0	1.109	1.976	19.9	19.7	9 8	21 49.40	-11 36.3	1.826	2.794	7.1	19.0
9 18	21 27.97	-40 42.2	1.152	1.961	22.9	19.9	9 18	21 41.23	-11 28.8	1.882	2.788	10.9	19.2
9 28	21 21.91	-37 58.9	1.210	1.946	25.6	20.0	9 28	21 35.32	-11 14.4	1.962	2.783	14.1	19.4
<b>369965</b>	1995 SA <sub>87</sub>		8 22.3 312°77	0°6/21.9	18		<b>9710</b>	1964 VN <sub>1</sub>		8 22.3 301°53	5°6/18.1	18	
7 20	22 28.18	-10 47.5	1.248	2.146	16.7	21.5	7 20	22 30.09	-21 7.9	1.412	2.316	14.7	17.6
7 30	22 24.40	-11 12.3	1.167	2.123	12.4	21.2	7 30	22 25.71	-22 19.1	1.333	2.291	11.0	17.3
8 9	22 17.83	-11 51.4	1.106	2.101	7.4	20.9	8 9	22 18.58	-23 35.0	1.276	2.266	7.3	17.0
8 19	22 9.16	-12 39.8	1.067	2.078	1.8	20.5	8 19	22 9.39	-24 46.2	1.242	2.241	5.6	16.9
8 29	21 59.62	-13 29.7	1.053	2.057	4.2	20.6	8 29	21 59.37	-25 42.5	1.233	2.216	8.1	16.9
9 8	21 50.73	-14 12.7	1.061	2.035	10.0	20.8	9 8	21 49.99	-26 16.0	1.248	2.191	12.3	17.1
9 18	21 43.88	-14 42.6	1.091	2.015	15.3	21.1	9 18	21 42.63	-26 23.4	1.283	2.167	16.5	17.3
9 28	21 40.14	-14 55.2	1.140	1.996	19.9	21.3	9 28	21 38.29	-26 5.4	1.337	2.143	20.3	17.5
<b>227400</b>	2005 UK <sub>398</sub>		8 22.3 231°50	3°3/19.5	17		<b>313302</b>	2002 CQ <sub>252</sub>		8 22.3 271°97	3°8/18.3	18	
7 20	22 30.98	-17 41.2	1.820	2.708	12.8	20.9	7 20	22 26.95	-19 50.6	2.126	3.016	11.1	20.4
7 30	22 25.58	-18 37.8	1.748	2.700	9.3	20.7	7 30	22 22.42	-21 3.1	2.056	3.008	8.1	20.2
8 9	22 18.08	-19 39.1	1.701	2.692	5.7	20.5	8 9	22 16.15	-22 18.5	2.011	3.000	5.2	20.0
8 19	22 9.15	-20 38.6	1.679	2.684	3.3	20.3	8 19	22 8.69	-23 30.5	1.993	2.992	3.8	19.9
8 29	21 59.76	-21 29.2	1.684	2.675	5.3	20.4	8 29	22 0.85	-24 32.6	2.002	2.983	5.6	20.0
9 8	21 51.01	-22 5.6	1.717	2.666	9.0	20.6	9 8	21 53.53	-25 19.8	2.038	2.975	8.6	20.2
9 18	21 43.88	-22 24.8	1.773	2.657	12.7	20.8	9 18	21 47.51	-25 49.4	2.099	2.967	11.6	20.4
9 28	21 39.09	-22 26.3	1.850	2.647	15.8	21.0	9 28	21 43.45	-26 0.7	2.181	2.958	14.3	20.6
<b>425303</b>	2009 YU		8 22.3 272°51	5°0/18.6	18		<b>67067</b>	1999 YC <sub>6</sub>		8 22.3 297°42	3°4/23.7	18	
7 20	22 32.63	-21 49.6	1.596	2.491	13.8	21.0	7 20	22 40.64	-6 40.4	1.705	2.554	15.4	18.5
7 30	22 27.11	-22 43.6	1.526	2.480	10.3	20.7	7 30	22 33.03	-5 29.9	1.605	2.530	11.9	18.3
8 9	22 19.12	-23 38.6	1.480	2.468	6.8	20.5	8 9	22 22.74	-4 24.8	1.529	2.506	7.9	18.0
8 19	22 9.43	-24 26.7	1.458	2.456	5.0	20.4	8 19	22 10.45	-3 26.2	1.479	2.481	4.2	17.7
8 29	21 59.21	-25 0.2	1.462	2.444	7.1	20.5	8 29	21 57.27	-2 34.3	1.457	2.457	4.4	17.7
9 8	21 49.77	-25 14.1	1.491	2.433	10.8	20.7	9 8	21 44.60	-1 48.9	1.464	2.432	8.5	17.8
9 18	21 42.26	-25 6.9	1.542	2.421	14.5	20.9	9 18	21 33.71	-1 8.8	1.498	2.408	12.9	18.0
9 28	21 37.49	-24 39.6	1.614	2.409	17.8	21.1	9 28	21 25.60	-0 31.9	1.554	2.384	16.8	18.2
<b>33002</b>	Everest		8 22.3 230°20	0°8/21.5	18		<b>263625</b>	2008 GM <sub>42</sub>		8 22.3 167°22	0°5/22.9	18	
7 20	22 26.70	-11 35.6	2.389	3.261	10.7	19.3	7 20	22 26.60	-7 20.3	2.718	3.572	10.1	21.7
7 30	22 21.99	-12 18.8	2.310	3.254	7.8	19.1	7 30	22 21.70	-7 55.8	2.644	3.576	7.5	21.5
8 9	22 15.78	-13 9.6	2.256	3.247	4.5	18.9	8 9	22 15.53	-8 40.0	2.595	3.580	4.5	21.3
8 19	22 8.55	-14 4.0	2.229	3.239	1.2	18.7	8 19	22 8.52	-9 29.9	2.574	3.583	1.4	21.1
8 29	22 0.99	-14 57.2	2.230	3.231	2.8	18.8	8 29	22 1.28	-10 21.7	2.582	3.586	2.0	21.2
9 8	21 53.86	-15 44.6	2.260	3.223	6.3	19.0	9 8	21 54.46	-11 11.3	2.619	3.588	5.2	21.4
9 18	21 47.85	-16 22.9	2.317	3.215	9.5	19.2	9 18	21 48.62	-11 55.5	2.684	3.590	8.0	21.6
9 28	21 43.51	-16 49.8	2.397	3.207	12.2	19.4	9 28	21 44.24	-12 31.6	2.774	3.592	10.5	21.8
<b>17591</b>	1995 DG		8 22.3 267°08	0°2/22.1	18		<b>228176</b>	2009 SP <sub>263</sub>		8 22.3 323°65	1°9/21.1	18	
7 20	22 24.96	-8 22.2	2.484	3.348	10.6	17.8	7 20	22 26.42	-12 38.1	1.223	2.129	16.4	20.4
7 30	22 20.75	-9 23.8	2.391	3.330	7.8	17.6	7 30	22 23.09	-13 22.5	1.149	2.110	12.1	20.1
8 9	22 15.08	-10 36.5	2.323	3.312	4.6	17.3	8 9	22 17.05	-14 20.7	1.095	2.091	7.1	19.7
8 19	22 8.39	-11 56.3	2.283	3.294	1.1	17.0	8 19	22 9.02	-15 25.6	1.063	2.074	2.2	19.4
8 29	22 1.30	-13 17.9	2.272	3.275	2.5	17.1	8 29	22 0.22	-16 28.0	1.055	2.057	5.0	19.5
9 8	21 54.52	-14 35.7	2.291	3.256	6.0	17.3	9 8	21 52.16	-17 18.7	1.070	2.041	10.5	19.8
9 18	21 48.73	-15 44.9	2.336	3.237	9.3	17.5	9 18	21 46.16	-17 51.4	1.107	2.026	15.6	20.0
9 28	21 44.52	-16 41.9	2.406	3.218	12.1	17.7	9 28	21 43.21	-18 3.2	1.161	2.012	19.9	20.2
<b>130570</b>	2000 RR <sub>45</sub>		8 22.3 295°89	3°5/24.9	18		<b>468685</b>	2009 QW <sub>58</sub>		8 22.3 26°32	5°0/26.2	16	
7 20	22 27.77	-1 7.3	1.657	2.510	15.5	19.3	7 20	22 24.19	+ 2 6.2	1.068	1.943	20.6	20.7
7 30	22 23.59	-1 15.2	1.556	2.481	12.2	19.1	7 30	22 21.26	+ 1 47.1	1.022	1.955	16.2	20.5
8 9	22 17.16	-1 42.5	1.476	2.450	8.4	18.8	8 9	22 15.77	+ 0 57.3	0.992	1.968	11.3	20.3
8 19	22 8.99	-2 28.2	1.419	2.420	4.6	18.5	8 19	22 8.63	-0 19.5	0.983	1.982	6.6	20.0
8 29	22 0.02	-3 28.6	1.388	2.390	4.0	18.4	8 29	22 1.14	-1 54.7	0.996	1.998	5.3	20.0
9 8	21 51.39	-4 36.9	1.383	2.359	7.9	18.5	9 8	21 54.73	-3 36.1	1.032	2.015	8.9	20.3
9 18	21 44.21	-5 45.8	1.403	2.329	12.4	18.7	9 18	21 50.47	-5 11.8	1.090	2.032	13.5	20.6
9 28	21 39.45	-6 48.0	1.444	2.298	16.5	18.9	9 28	21 49.10	-6 32.9	1.168	2.051	17.6	20.9
<b>342045</b>	2008 RD <sub>121</sub>		8 22.3 284°45	0°3/22.1	18		<b>105891</b>	2000 SF <sub>183</sub>		8 22.3 279°46	0°7/21.7	18	
7 20	22 29.50	-10 22.5	1.677	2.557	14.1	21.8	7 20</						

EPHEMERIDES

8 22.3

8 22.4

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>258910</b>	2002 <i>QL</i> <sub>118</sub>		8 22.3 264°20	2°6/20.3	18		<b>478554</b>	2012 <i>TW</i> <sub>37</sub>		8 22.3 0°01	2°4/23.8	16	
7 20	22 30.36	-14 38.6	1.557	2.448	14.4	21.1	7 20	22 18.03	-6 28.0	0.847	1.769	20.1	21.6
7 30	22 25.49	-15 36.7	1.482	2.436	10.5	20.9	7 30	22 17.30	-6 16.7	0.796	1.762	15.3	21.3
8 9	22 18.23	-16 44.2	1.430	2.424	6.2	20.6	8 9	22 13.73	-6 27.2	0.762	1.757	9.7	21.0
8 19	22 9.29	-17 54.1	1.403	2.411	2.7	20.3	8 19	22 8.18	-6 56.1	0.747	1.756	3.9	20.7
8 29	21 59.74	-18 57.9	1.402	2.398	5.1	20.5	8 29	22 2.08	-7 36.2	0.751	1.757	4.2	20.7
9 8	21 50.85	-19 48.3	1.426	2.385	9.6	20.7	9 8	21 57.07	-8 17.6	0.774	1.762	9.9	21.0
9 18	21 43.76	-20 20.8	1.474	2.372	13.8	20.9	9 18	21 54.42	-8 51.9	0.817	1.769	15.4	21.3
9 28	21 39.31	-20 33.9	1.542	2.359	17.5	21.1	9 28	21 54.96	-9 12.3	0.876	1.779	20.0	21.7
<b>437914</b>	2002 <i>EO</i> <sub>7</sub>		8 22.3 158°30	4°7/16.9	18		<b>380273</b>	2002 <i>AB</i> <sub>44</sub>		8 22.3 145°30	1°5/20.9	18	
7 20	22 30.51	-22 41.3	2.246	3.130	10.8	21.8	7 20	22 30.21	-13 7.5	2.007	2.884	12.3	20.7
7 30	22 24.90	-24 15.8	2.191	3.138	8.0	21.7	7 30	22 24.72	-14 1.9	1.946	2.892	8.9	20.6
8 9	22 17.55	-25 50.3	2.163	3.145	5.5	21.5	8 9	22 17.46	-15 3.4	1.909	2.901	5.1	20.3
8 19	22 9.06	-27 17.5	2.162	3.151	4.8	21.5	8 19	22 9.05	-16 6.6	1.899	2.908	1.7	20.1
8 29	22 0.26	-28 30.6	2.191	3.157	6.4	21.6	8 29	22 0.37	-17 5.4	1.917	2.916	3.7	20.3
9 8	21 52.05	-29 25.2	2.246	3.162	9.0	21.8	9 8	21 52.35	-17 54.6	1.963	2.922	7.4	20.5
9 18	21 45.21	-29 59.4	2.326	3.166	11.7	21.9	9 18	21 45.77	-18 30.8	2.035	2.929	10.8	20.8
9 28	21 40.35	-30 13.7	2.427	3.170	13.9	22.1	9 28	21 41.23	-18 52.4	2.129	2.934	13.7	21.0
<b>255474</b>	2005 <i>YJ</i> <sub>165</sub>		8 22.3 200°48	4°1/26.6	18		<b>449059</b>	2012 <i>EZ</i> <sub>4</sub>		8 22.3 259°80	3°8/18.7	18	
7 20	22 26.66	+ 2 57.3	2.462	3.276	12.3	20.2	7 20	22 29.28	-22 35.3	2.367	3.251	10.4	21.0
7 30	22 21.91	+ 3 3 7	2.380	3.275	9.9	20.0	7 30	22 23.90	-23 13.5	2.301	3.248	7.7	20.8
8 9	22 15.73	+ 2 55.5	2.321	3.274	7.2	19.8	8 9	22 16.92	-23 50.8	2.260	3.245	5.0	20.6
8 19	22 8.60	+ 2 33.5	2.286	3.272	4.8	19.7	8 19	22 8.91	-24 22.3	2.246	3.242	3.8	20.6
8 29	22 1.17	+ 1 59.6	2.280	3.270	4.1	19.6	8 29	22 0.65	-24 43.7	2.260	3.239	5.2	20.7
9 8	21 54.15	+ 1 17.7	2.301	3.269	5.9	19.7	9 8	21 52.95	-24 52.0	2.301	3.236	7.9	20.8
9 18	21 48.19	+ 0 32.0	2.349	3.267	8.5	19.9	9 18	21 46.54	-24 46.2	2.367	3.233	10.6	21.0
9 28	21 43.82	- 0 13.2	2.422	3.265	11.1	20.1	9 28	21 41.97	-24 26.6	2.455	3.230	13.0	21.2
<b>293243</b>	2007 <i>BT</i> <sub>77</sub>		8 22.3 88°51	0°5/22.7	18		<b>325628</b>	2009 <i>SA</i> <sub>273</sub>		8 22.3 284°40	2°3/24.6	18	
7 20	22 30.57	- 9 57.6	2.251	3.114	11.6	20.2	7 20	22 25.86	- 2 50.4	2.337	3.182	11.9	20.8
7 30	22 24.76	- 9 54.4	2.183	3.120	8.6	20.1	7 30	22 21.46	- 3 1.0	2.247	3.169	9.1	20.6
8 9	22 17.38	- 9 57.9	2.140	3.127	5.1	19.9	8 9	22 15.55	- 3 24.0	2.181	3.157	6.1	20.4
8 19	22 9.01	-10 5.6	2.123	3.133	1.5	19.6	8 19	22 8.59	- 3 57.8	2.142	3.144	3.1	20.2
8 29	22 0.41	-10 14.8	2.135	3.140	2.4	19.7	8 29	22 1.26	- 4 39.1	2.129	3.132	2.8	20.1
9 8	21 52.41	-10 22.2	2.176	3.146	6.0	19.9	9 8	21 54.32	- 5 23.7	2.145	3.119	5.7	20.3
9 18	21 45.70	-10 25.7	2.243	3.152	9.2	20.2	9 18	21 48.45	- 6 7.4	2.188	3.107	9.0	20.5
9 28	21 40.84	-10 23.3	2.334	3.158	12.0	20.4	9 28	21 44.24	- 6 46.1	2.254	3.094	11.9	20.6
<b>332042</b>	2005 <i>QN</i> <sub>89</sub>		8 22.3 329°79	0°4/22.5	18		<b>40967</b>	1999 <i>TC</i> <sub>251</sub>		8 22.3 317°07	2°4/20.6	18	
7 20	22 26.21	- 9 41.0	1.139	2.043	17.5	20.2	7 20	22 31.08	-17 58.7	1.933	2.818	12.3	17.8
7 30	22 23.09	- 9 48.8	1.063	2.021	13.2	19.8	7 30	22 25.57	-18 9.6	1.855	2.805	9.0	17.6
8 9	22 17.14	-10 11.7	1.006	2.000	8.0	19.5	8 9	22 18.08	-18 22.3	1.800	2.791	5.4	17.3
8 19	22 9.07	-10 45.6	0.970	1.981	2.2	19.1	8 19	22 9.24	-18 32.6	1.771	2.778	2.5	17.1
8 29	22 0.15	-11 23.5	0.957	1.962	4.0	19.1	8 29	22 0.00	-18 36.2	1.769	2.766	4.3	17.2
9 8	21 51.96	-11 57.6	0.966	1.945	9.9	19.4	9 8	21 51.38	-18 29.8	1.795	2.753	8.0	17.4
9 18	21 45.93	-12 21.3	0.996	1.929	15.4	19.7	9 18	21 44.28	-18 11.9	1.845	2.741	11.6	17.6
9 28	21 43.10	-12 30.1	1.044	1.915	20.2	19.9	9 28	21 39.40	-17 42.5	1.918	2.730	14.7	17.8
<b>851</b>	Zeissia		8 22.3 179°45	0°3/22.2	18		<b>258861</b>	2002 <i>PA</i> <sub>156</sub>		8 22.3 25°62	1°4/21.3	17	
7 20	22 31.86	- 9 13.8	1.550	2.427	15.2	15.3	7 20	22 27.32	-10 52.5	1.155	2.059	17.3	19.8
7 30	22 26.42	- 9 56.4	1.483	2.428	11.2	15.1	7 30	22 23.54	-11 50.7	1.105	2.065	12.6	19.5
8 9	22 18.68	-10 52.4	1.438	2.429	6.6	14.8	8 9	22 17.14	-13 3.8	1.076	2.072	7.3	19.3
8 19	22 9.39	-11 56.1	1.419	2.429	1.6	14.5	8 19	22 9.02	-14 23.3	1.069	2.079	2.0	19.0
8 29	21 59.64	-13 0.1	1.426	2.429	3.5	14.7	8 29	22 0.51	-15 38.8	1.085	2.088	4.6	19.2
9 8	21 50.68	-13 57.2	1.459	2.429	8.3	14.9	9 8	21 53.06	-16 41.0	1.125	2.097	10.0	19.5
9 18	21 43.54	-14 42.0	1.517	2.428	12.7	15.2	9 18	21 47.81	-17 24.0	1.187	2.107	14.7	19.8
9 28	21 39.00	-15 11.3	1.595	2.426	16.4	15.4	9 28	21 45.51	-17 45.6	1.267	2.117	18.7	20.1
<b>427692</b>	2004 <i>EW</i> <sub>46</sub>		8 22.3 235°32	0°2/22.2	18		<b>268425</b>	2005 <i>UB</i> <sub>491</sub>		8 22.3 356°28	1°9/21.2	17	
7 20	22 30.70	- 9 19.3	1.749	2.623	13.9	22.0	7 20	22 31.69	-14 53.1	1.385	2.280	15.5	19.7
7 30	22 25.48	- 9 56.8	1.670	2.613	10.3	22.2	7 30	22 26.51	-15 11.3	1.323	2.278	11.4	19.5
8 9	22 18.12	-10 46.5	1.613	2.602	6.1	21.7	8 9	22 18.81	-15 36.2	1.283	2.277	6.6	19.2
8 19	22 9.26	-11 43.8	1.581	2.592	1.5	21.4	8 19	22 9.45	-16 1.9	1.266	2.276	2.2	19.0
8 29	21 59.87	-12 42.4	1.577	2.580	3.2	21.5	8 29	21 59.66	-16 22.2	1.275	2.276	4.5	19.1
9 8	21 51.06	-13 35.9	1.600	2.569	7.8	21.7	9 8	21 50.81	-16 32.0	1.308	2.276	9.3	19.4
9 18	21 43.82	-14 19.0	1.647	2.556	12.0	21.9	9 18	21 44.03	-16 28.7	1.364	2.276	13.8	19.7
9 28	21 38.93	-14 48.6	1.717	2.544	15.6	22.2	9 28	21 40.09	-16 11.4	1.440	2.277	17.5	19.9
<b>74277</b>	1998 <i>SE</i> <sub>119</sub>		8 22.3 313°98	1°8/20.9	18		<b>255496</b>	2006 <i>AE</i> <sub>75</sub>		8 22.4 190°51	2°0/24.7	18	
7 20	22 29.20	-14 23.1	1.702	2.591	13.5	19.5	7 20	22 26.29	- 2 43.0	2.822	3.657	10.4	21.0
7 30	22 24.37	-14 55.3	1.631	2.583	9.8	19.3	7 30	22 21.48	- 2 55.2	2.740	3.655	7.9	20.9
8 9	22 17.44	-15 34.4	1.582	2.576	5.7	19.0	8 9	22 15.42	- 3 17.8	2.681	3.654	5.2	20.7
8 19	22 9.07	-16 15.2	1.559	2.568	2.0	18.7	8 19	22 8.54	- 3 48.9	2.650	3.652	2.7	20.5
8 29	22 0.27	-16 51.7	1.562	2.561	4.1	18.9	8 29	22 1.42	- 4 26.0	2.649	3.650	2.4	20.5
9 8	21 52.15	-17 18.6	1.591	2.554	8.3	19.1	9 8	21 54.67	- 5 5.6	2.676	3.647	4.9	20.7
9 18	21 45.65	-17 32.7	1.644	2.548	12.3	19.3	9 18	21 48.83	- 5 44.4	2.731	3.645	7.6	20.8
9 28	21 41.52	-17 32.4	1.718	2.542	15.7	19.6	9 28	21 44.39	- 6 19.1	2.811	3.641	10.1	21.0
<b>444998</b>	2008 <i>GR</i> <sub>79</sub>		8 22.3 64°38	3°6/26.2	15		<b>243320</b>	Jackuiipers		8 22.4 39°35	3°5/26.1	18	

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>323751</b>	2005 <i>NR</i> <sub>122</sub>		8 22.4 27°62'	4.7°/19.9	17		<b>59867</b>	1999 <i>RT</i> <sub>105</sub>		8 22.4 13°60'	1°0'/23.1	18	
7 20	22 32.83	-20 15.7	1.072	1.985	17.6	19.6	7 20	22 31.77	-9 13.2	1.971	2.836	13.0	18.0
7 30	22 27.64	-20 42.3	1.033	1.996	12.9	19.3	7 30	22 25.89	-8 55.4	1.900	2.837	9.6	17.8
8 9	22 19.50	-21 9.3	1.014	2.009	8.0	19.1	8 9	22 18.18	-8 45.3	1.853	2.839	5.9	17.6
8 19	22 9.59	-21 28.3	1.017	2.022	4.7	19.0	8 19	22 9.29	-8 40.7	1.831	2.840	2.0	17.3
8 29	21 59.53	-21 32.1	1.043	2.037	7.0	19.2	8 29	22 0.10	-8 39.0	1.838	2.842	2.7	17.4
9 8	21 50.95	-21 17.1	1.091	2.053	11.5	19.5	9 8	21 51.57	-8 37.3	1.873	2.845	6.6	17.6
9 18	21 45.00	-20 43.7	1.160	2.069	15.9	19.8	9 18	21 44.52	-8 33.0	1.933	2.847	10.2	17.9
9 28	21 42.34	-19 54.1	1.248	2.087	19.5	20.1	9 28	21 39.56	-8 24.0	2.016	2.850	13.3	18.1
<b>383999</b>	2008 <i>UR</i> <sub>11</sub>		8 22.4 180°51'	3°4'/25.4	18		<b>401567</b>	2013 <i>FW</i> <sub>7</sub>		8 22.4 46°04'	0°1'/22.3	18	
7 20	22 29.50	-0 9.1	2.021	2.856	13.9	21.3	7 20	22 25.59	-8 54.7	2.047	2.921	12.2	21.0
7 30	22 24.25	-0 13.1	1.944	2.857	10.8	21.1	7 30	22 21.32	-9 38.2	1.986	2.929	8.9	20.8
8 9	22 17.23	-0 32.9	1.890	2.857	7.5	20.9	8 9	22 15.46	-10 31.9	1.948	2.938	5.2	20.6
8 19	22 9.03	-1 7.0	1.860	2.857	4.3	20.7	8 19	22 8.59	-11 31.3	1.937	2.947	1.3	20.4
8 29	22 0.47	-1 51.9	1.858	2.857	3.7	20.7	8 29	22 1.48	-12 31.0	1.953	2.957	2.7	20.5
9 8	21 52.46	-2 42.6	1.884	2.856	6.5	20.8	9 8	21 54.95	-13 25.7	1.997	2.967	6.4	20.8
9 18	21 45.79	-3 33.9	1.936	2.855	9.9	21.1	9 18	21 49.70	-14 11.3	2.066	2.976	9.9	21.0
9 28	21 41.09	-4 20.8	2.012	2.854	13.0	21.3	9 28	21 46.28	-14 44.8	2.159	2.986	12.8	21.2
<b>390248</b>	2012 <i>XF</i> <sub>87</sub>		8 22.4 147°53'	3°2'/19.5	18		<b>368087</b>	2012 <i>UM</i> <sub>112</sub>		8 22.4 337°14'	2°5'/20.4	18	
7 20	22 30.12	-18 26.1	1.951	2.838	12.1	21.1	7 20	22 27.87	-14 58.5	1.524	2.421	14.3	20.3
7 30	22 24.76	-19 17.4	1.890	2.841	8.8	20.9	7 30	22 23.61	-15 49.5	1.458	2.415	10.4	20.1
8 9	22 17.54	-20 11.4	1.853	2.844	5.4	20.7	8 9	22 17.10	-16 48.7	1.415	2.409	6.1	19.8
8 19	22 9.11	-21 2.3	1.843	2.847	3.2	20.6	8 19	22 9.05	-17 49.1	1.396	2.404	2.6	19.6
8 29	22 0.38	-21 44.1	1.860	2.849	5.0	20.7	8 29	22 0.55	-18 43.1	1.402	2.400	5.0	19.8
9 8	21 52.34	-22 12.4	1.904	2.852	8.4	21.0	9 8	21 52.79	-19 24.0	1.434	2.396	9.3	20.0
9 18	21 45.81	-22 25.2	1.972	2.854	11.7	21.2	9 18	21 46.80	-19 48.0	1.489	2.392	13.4	20.2
9 28	21 41.43	-22 22.2	2.062	2.856	14.5	21.4	9 28	21 43.35	-19 53.7	1.563	2.389	16.9	20.5
<b>183602</b>	2003 <i>UQ</i> <sub>62</sub>		8 22.4 300°88'	6°1'/17.9	18		<b>249051</b>	2007 <i>TM</i> <sub>129</sub>		8 22.4 344°19'	3°6'/24.5	18	
7 20	22 31.01	-21 39.9	1.312	2.219	15.4	19.8	7 20	22 24.62	-3 19.4	0.993	1.891	20.1	19.6
7 30	22 26.39	-22 56.7	1.249	2.208	11.5	19.5	7 30	22 22.06	-3 13.4	0.929	1.880	15.6	19.3
8 9	22 18.96	-24 16.4	1.207	2.197	7.7	19.3	8 9	22 16.59	-3 31.7	0.883	1.870	10.3	18.9
8 19	22 9.54	-25 28.5	1.189	2.186	6.1	19.1	8 19	22 8.99	-4 12.4	0.855	1.861	5.1	18.6
8 29	21 59.48	-26 22.7	1.194	2.176	8.5	19.3	8 29	22 0.65	-5 9.1	0.849	1.854	4.6	18.6
9 8	21 50.33	-26 51.8	1.223	2.165	12.6	19.5	9 8	21 53.22	-6 11.8	0.865	1.848	9.8	18.9
9 18	21 43.40	-26 53.7	1.273	2.155	16.7	19.7	9 18	21 48.12	-7 10.6	0.900	1.844	15.3	19.1
9 28	21 39.61	-26 30.2	1.340	2.146	20.2	19.9	9 28	21 46.34	-7 57.0	0.953	1.841	20.1	19.4
<b>443509</b>	2014 <i>JJ</i> <sub>44</sub>		8 22.4 0°19'	0°7'/22.9	18		<b>13590</b>	1994 <i>AC</i> <sub>3</sub>		8 22.4 215°48'	0°2'/22.1	18	
7 20	22 26.55	-7 38.2	1.744	2.619	13.9	20.9	7 20	22 26.51	-10 28.8	2.728	3.592	9.8	19.4
7 30	22 22.31	-8 1.4	1.675	2.618	10.3	20.7	7 30	22 21.71	-10 57.1	2.647	3.586	7.2	19.2
8 9	22 16.18	-8 37.0	1.629	2.618	6.3	20.4	8 9	22 15.61	-11 32.0	2.592	3.581	4.2	19.0
8 19	22 8.78	-9 21.2	1.608	2.617	1.9	20.2	8 19	22 8.63	-12 10.6	2.564	3.575	1.0	18.8
8 29	22 1.02	-10 8.8	1.613	2.618	2.8	20.2	8 29	22 1.39	-12 49.4	2.566	3.569	2.2	18.9
9 8	21 53.90	-10 54.0	1.644	2.618	7.1	20.5	9 8	21 54.54	-13 24.7	2.596	3.562	5.4	19.1
9 18	21 48.28	-11 31.9	1.700	2.620	11.0	20.7	9 18	21 48.65	-13 53.8	2.654	3.556	8.3	19.2
9 28	21 44.80	-11 59.0	1.778	2.621	14.4	21.0	9 28	21 44.22	-14 14.6	2.736	3.549	10.8	19.4
<b>112513</b>	2002 <i>PA</i> <sub>25</sub>		8 22.4 80°58'	0°1'/22.4	17		<b>166489</b>	2002 <i>PS</i> <sub>158</sub>		8 22.4 52°19'	0°5'/22.8	18	
7 20	22 32.00	-8 33.8	1.405	2.286	16.3	20.0	7 20	22 29.82	-8 50.2	1.723	2.597	14.1	19.5
7 30	22 26.45	-9 17.3	1.360	2.306	11.9	19.8	7 30	22 24.67	-9 4.0	1.660	2.603	10.4	19.2
8 9	22 18.61	-10 14.4	1.335	2.326	7.0	19.6	8 9	22 17.55	-9 28.5	1.620	2.608	6.2	19.0
8 19	22 9.38	-11 18.9	1.335	2.346	1.8	19.3	8 19	22 9.14	-9 59.9	1.604	2.614	1.8	18.7
8 29	21 59.95	-12 22.8	1.361	2.366	3.4	19.5	8 29	22 0.43	-10 33.5	1.616	2.620	2.9	18.8
9 8	21 51.57	-13 18.7	1.413	2.385	8.3	19.8	9 8	21 52.47	-11 4.1	1.654	2.626	7.2	19.1
9 18	21 45.21	-14 1.7	1.489	2.404	12.6	20.1	9 18	21 46.11	-11 27.8	1.716	2.633	11.1	19.4
9 28	21 41.50	-14 29.1	1.586	2.423	16.1	20.4	9 28	21 42.02	-11 41.7	1.801	2.639	14.5	19.6
<b>149060</b>	2002 <i>CA</i> <sub>51</sub>		8 22.4 282°33'	0°4'/21.9	18		<b>510952</b>	2013 <i>FR</i> <sub>21</sub>		8 22.4 52°28'	6°8'/16.5	18	
7 20	22 25.43	-9 11.1	2.116	2.988	11.9	20.0	7 20	22 33.61	-31 47.0	2.107	2.987	11.6	20.8
7 30	22 21.30	-10 6.6	2.036	2.980	8.7	19.8	7 30	22 27.20	-32 30.3	2.062	2.995	9.2	20.7
8 9	22 15.52	-11 13.4	1.980	2.971	5.1	19.6	8 9	22 18.89	-33 4.7	2.040	3.003	7.4	20.6
8 19	22 8.62	-12 26.9	1.951	2.962	1.2	19.3	8 19	22 9.45	-33 24.2	2.044	3.012	6.9	20.6
8 29	22 1.33	-13 41.1	1.950	2.953	2.8	19.4	8 29	21 59.89	-33 24.6	2.075	3.020	8.1	20.7
9 8	21 54.50	-14 50.0	1.977	2.944	6.7	19.6	9 8	21 51.23	-33 4.3	2.130	3.029	10.3	20.8
9 18	21 48.86	-15 48.7	2.030	2.935	10.2	19.8	9 18	21 44.28	-32 24.8	2.209	3.037	12.6	21.0
9 28	21 45.05	-16 33.9	2.106	2.927	13.3	20.0	9 28	21 39.60	-31 29.0	2.308	3.046	14.7	21.2
<b>335070</b>	2004 <i>RE</i> <sub>289</sub>		8 22.4 301°70'	13°4'/25.7	16		<b>65969</b>	1998 <i>HN</i> <sub>19</sub>		8 22.4 336°52'	6°3'/27.3	18	
7 20	22 40.22	+ 6 3.3	1.036	1.876	23.7	20.0	7 20	22 23.29	+ 4 26.6	1.333	2.185	18.7	18.0
7 30	22 34.01	+ 8 42.5	0.964	1.862	20.3	19.7	7 30	22 20.54	+ 4 33.2	1.255	2.171	15.3	17.7
8 9	22 24.01	+ 11 3.6	0.908	1.849	16.8	19.4	8 9	22 15.46	+ 4 12.1	1.195	2.158	11.4	17.5
8 19	22 10.98	+ 12 55.8	0.872	1.836	14.0	19.2	8 19	22 8.68	+ 3 22.9	1.156	2.145	7.7	17.2
8 29	21 56.52	+ 14 9.9	0.857	1.823	13.5	19.2	8 29	22 1.25	+ 2 9.4	1.139	2.134	6.4	17.1
9 8	21 42.78	+ 14 43.9	0.864	1.811	15.7	19.2	9 8	21 54.44	+ 0 39.8	1.146	2.124	8.9	17.2
9 18	21 31.76	+ 14 43.3	0.889	1.799	19.3	19.4	9 18	21 49.38	-0 55.5	1.176	2.115	13.0	17.4
9 28	21 24.89	+ 14 19.4	0.931	1.788	23.2	19.6	9 28	21 46.98	-2 26.0	1.226	2.107	17.1	17.7
<b>516127</b>	2015 <i>UC</i> <sub>73</sub>		8 22.4 354°09'	5°									

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>203732</b>	2002 QY <sub>59</sub>		8 22.4 212° <sup>07</sup>	2.7°/24.4	18		<b>129311</b>	2005 SP <sub>203</sub>		8 22.4 328° <sup>95</sup>	4.8°/25.6	18	
7 20	22 31.79	- 3 49.7	2.076	2.920	13.2	20.7	7 20	22 29.56	- 0 7.0	1.435	2.291	17.4	19.6
7 30	22 25.92	- 3 33.3	1.996	2.917	10.1	20.5	7 30	22 24.97	+ 0 15.2	1.362	2.286	13.8	19.4
8 9	22 18.23	- 3 28.3	1.939	2.914	6.7	20.3	8 9	22 18.00	+ 0 17.6	1.309	2.280	9.7	19.1
8 19	22 9.34	- 3 33.5	1.908	2.910	3.5	20.1	8 19	22 9.35	+ 0 0.5	1.278	2.275	5.9	18.9
8 29	22 0.06	- 3 46.6	1.905	2.906	3.3	20.0	8 29	22 0.14	- 0 33.0	1.272	2.270	5.1	18.8
9 8	21 51.32	- 4 3.9	1.930	2.902	6.4	20.2	9 8	21 51.63	- 1 16.7	1.290	2.266	8.4	19.0
9 18	21 43.94	- 4 21.9	1.981	2.897	9.9	20.4	9 18	21 44.94	- 2 3.8	1.332	2.262	12.6	19.2
9 28	21 38.57	- 4 37.0	2.056	2.892	13.0	20.6	9 28	21 40.92	- 2 47.4	1.394	2.258	16.5	19.5
<b>75515</b>	1999 XM <sub>203</sub>		8 22.4 197° <sup>47</sup>	2.4°/24.3	18		<b>364514</b>	2007 EU <sub>128</sub>		8 22.4 200° <sup>75</sup>	0.4°/21.9	18	
7 20	22 31.45	- 4 5.5	2.165	3.008	12.7	19.3	7 20	22 27.70	- 11 17.8	2.462	3.329	10.6	22.0
7 30	22 25.59	- 3 56.3	2.085	3.006	9.8	19.1	7 30	22 22.70	- 11 43.6	2.386	3.328	7.7	21.9
8 9	22 18.01	- 3 58.4	2.029	3.004	6.4	18.9	8 9	22 16.25	- 12 16.0	2.336	3.326	4.5	21.6
8 19	22 9.28	- 4 10.1	1.998	3.001	3.2	18.7	8 19	22 8.85	- 12 51.6	2.313	3.323	1.1	21.4
8 29	22 0.19	- 4 28.9	1.997	2.998	3.0	18.7	8 29	22 1.17	- 13 26.7	2.318	3.321	2.5	21.5
9 8	21 51.62	- 4 51.0	2.023	2.995	6.2	18.9	9 8	21 53.96	- 13 57.5	2.352	3.318	5.9	21.7
9 18	21 44.36	- 5 12.9	2.077	2.991	9.6	19.1	9 18	21 47.85	- 14 21.2	2.413	3.315	9.0	21.9
9 28	21 39.02	- 5 31.2	2.154	2.987	12.6	19.3	9 28	21 43.38	- 14 35.8	2.498	3.312	11.6	22.1
<b>232146</b>	2002 CR <sub>70</sub>		8 22.4 72° <sup>34</sup>	1.2°/21.4	18		<b>50611</b>	2000 EL <sub>57</sub>		8 22.4 190° <sup>20</sup>	0.3°/22.6	18	
7 20	22 29.10	- 11 53.0	1.658	2.542	14.0	20.9	7 20	22 31.33	- 8 31.9	1.868	2.735	13.5	20.0
7 30	22 24.29	- 12 40.1	1.594	2.544	10.2	20.7	7 30	22 25.76	- 9 2.6	1.795	2.734	10.0	19.8
8 9	22 17.40	- 13 37.1	1.553	2.546	5.9	20.5	8 9	22 18.23	- 9 44.7	1.745	2.733	6.0	19.6
8 19	22 9.13	- 14 38.2	1.537	2.548	1.7	20.2	8 19	22 9.38	- 10 34.0	1.721	2.731	1.6	19.3
8 29	22 0.50	- 15 36.5	1.549	2.550	3.8	20.3	8 29	22 0.13	- 11 25.1	1.724	2.729	2.9	19.4
9 8	21 52.59	- 16 25.5	1.586	2.552	8.2	20.6	9 8	21 51.50	- 12 12.2	1.756	2.726	7.1	19.6
9 18	21 46.34	- 17 1.0	1.647	2.554	12.1	20.9	9 18	21 44.39	- 12 51.0	1.813	2.722	11.0	19.9
9 28	21 42.45	- 17 20.8	1.730	2.555	15.5	21.1	9 28	21 39.47	- 13 18.2	1.892	2.718	14.4	20.1
<b>392003</b>	2008 YJ <sub>133</sub>		8 22.4 200° <sup>22</sup>	5.4°/16.4	18		<b>476736</b>	2008 UR <sub>36</sub>		8 22.4 275° <sup>51</sup>	2.1°/24.0	18	
7 20	22 29.84	- 24 50.5	2.173	3.061	11.0	21.4	7 20	22 29.25	- 4 34.0	1.818	2.677	14.1	21.8
7 30	22 24.59	- 26 18.9	2.112	3.058	8.3	21.2	7 30	22 24.43	- 4 43.1	1.729	2.660	10.8	21.6
8 9	22 17.49	- 27 46.3	2.077	3.055	6.1	21.1	8 9	22 17.57	- 5 6.6	1.662	2.643	7.0	21.3
8 19	22 9.15	- 29 5.2	2.068	3.051	5.5	21.0	8 19	22 9.25	- 5 42.2	1.620	2.626	3.1	21.1
8 29	22 0.43	- 30 8.8	2.087	3.047	7.1	21.1	8 29	22 0.35	- 6 25.9	1.605	2.609	3.1	21.0
9 8	21 52.28	- 30 52.7	2.132	3.043	9.7	21.3	9 8	21 51.93	- 7 12.1	1.617	2.591	7.1	21.2
9 18	21 45.54	- 31 15.4	2.201	3.038	12.4	21.5	9 18	21 44.93	- 7 55.3	1.654	2.574	11.2	21.4
9 28	21 40.86	- 31 17.6	2.291	3.033	14.7	21.6	9 28	21 40.15	- 8 31.0	1.713	2.556	14.9	21.6
<b>323735</b>	2005 LP <sub>26</sub>		8 22.4 37° <sup>21</sup>	3.0°/20.1	17		<b>337974</b>	2002 CC <sub>104</sub>		8 22.4 120° <sup>62</sup>	1.9°/21.0	16	
7 20	22 27.29	- 13 10.0	1.150	2.059	17.0	20.0	7 20	22 34.78	- 16 9.5	1.888	2.765	12.9	20.5
7 30	22 23.51	- 14 35.7	1.108	2.071	12.2	19.7	7 30	22 28.12	- 16 26.1	1.830	2.776	9.4	20.3
8 9	22 17.12	- 16 13.4	1.087	2.083	7.1	19.5	8 9	22 19.50	- 16 45.9	1.795	2.786	5.5	20.1
8 19	22 9.07	- 17 52.2	1.088	2.097	3.0	19.3	8 19	22 9.68	- 17 4.4	1.788	2.797	2.1	19.9
8 29	22 0.71	- 19 20.4	1.114	2.111	5.8	19.5	8 29	21 59.66	- 17 17.0	1.808	2.806	3.9	20.1
9 8	21 53.48	- 20 28.7	1.163	2.126	10.7	19.8	9 8	21 50.47	- 17 20.6	1.856	2.816	7.7	20.3
9 18	21 48.46	- 21 12.5	1.233	2.142	15.1	20.1	9 18	21 42.98	- 17 13.6	1.930	2.825	11.2	20.6
9 28	21 46.37	- 21 31.1	1.322	2.158	18.8	20.4	9 28	21 37.78	- 16 55.8	2.026	2.834	14.2	20.8
<b>117380</b>	2004 XT <sub>174</sub>		8 22.4 313° <sup>48</sup>	8.0°/13.0	18		<b>425793</b>	2011 CV <sub>91</sub>		8 22.4 156° <sup>30</sup>	0.1°/22.4	17	
7 20	22 27.78	- 32 32.3	2.054	2.942	11.5	18.8	7 20	22 30.36	- 8 30.3	1.849	2.717	13.5	22.0
7 30	22 23.36	- 34 11.2	1.995	2.929	9.4	18.7	7 30	22 25.02	- 9 12.7	1.782	2.723	10.0	21.8
8 9	22 16.90	- 35 43.4	1.961	2.917	8.1	18.6	8 9	22 17.77	- 10 6.9	1.739	2.728	5.9	21.5
8 19	22 9.03	- 37 0.6	1.952	2.904	8.3	18.5	8 19	22 9.26	- 11 8.1	1.722	2.732	1.5	21.3
8 29	22 0.69	- 37 55.6	1.969	2.892	9.9	18.6	8 29	22 0.42	- 12 10.2	1.732	2.736	2.9	21.4
9 8	21 52.96	- 38 24.7	2.008	2.879	12.1	18.7	9 8	21 52.24	- 13 7.0	1.770	2.740	7.2	21.7
9 18	21 46.78	- 38 27.4	2.069	2.868	14.4	18.9	9 18	21 45.58	- 13 53.9	1.834	2.743	11.0	21.9
9 28	21 42.87	- 38 5.8	2.148	2.856	16.4	19.0	9 28	21 41.08	- 14 27.8	1.920	2.745	14.2	22.1
<b>178325</b>	1995 SB <sub>9</sub>		8 22.4 184° <sup>23</sup>	0.6°/21.9	17		<b>446480</b>	2014 KX <sub>18</sub>		8 22.4 10° <sup>33</sup>	5.5°/27.2	15	
7 20	22 32.41	- 10 50.4	1.776	2.649	13.7	21.5	7 20	22 23.45	+ 3 52.1	1.514	2.359	17.2	20.6
7 30	22 26.63	- 11 24.1	1.706	2.650	10.1	21.2	7 30	22 20.27	+ 3 55.2	1.450	2.363	13.8	20.4
8 9	22 18.76	- 12 7.4	1.659	2.650	5.9	21.0	8 9	22 15.10	+ 3 34.3	1.406	2.367	10.1	20.2
8 19	22 9.50	- 12 55.8	1.639	2.649	1.5	20.7	8 19	22 8.59	+ 2 50.6	1.384	2.373	6.8	20.0
8 29	21 59.85	- 13 43.1	1.645	2.648	3.3	20.8	8 29	22 1.73	+ 1 48.2	1.386	2.380	5.6	19.9
9 8	21 50.89	- 14 23.9	1.680	2.647	7.7	21.1	9 8	21 55.56	+ 0 34.5	1.412	2.388	7.8	20.1
9 18	21 43.56	- 14 54.0	1.739	2.644	11.7	21.3	9 18	21 50.98	- 0 42.4	1.462	2.397	11.3	20.3
9 28	21 38.57	- 15 11.1	1.820	2.642	15.0	21.5	9 28	21 48.67	- 1 54.4	1.534	2.407	14.7	20.6
<b>198012</b>	2004 RF <sub>201</sub>		8 22.4 280° <sup>25</sup>	7.6°/27.9	18		<b>483289</b>	2015 TS <sub>320</sub>		8 22.4 348° <sup>15</sup>	5.0°/18.1	18	
7 20	22 29.97	+ 8 16.0	1.892	2.688	16.1	20.1	7 20	22 30.07	- 24 39.6	1.993	2.883	11.7	20.9
7 30	22 25.04	+ 8 56.8	1.790	2.664	13.6	19.9	7 30	22 24.79	- 25 22.1	1.932	2.881	8.8	20.7
8 9	22 18.00	+ 9 17.5	1.708	2.639	10.9	19.7	8 9	22 17.61	- 26 2.0	1.895	2.878	6.1	20.6
8 19	22 9.37	+ 9 15.6	1.649	2.613	8.5	19.5	8 19	22 9.22	- 26 33.2	1.884	2.876	5.0	20.5
8 29	21 59.98	+ 8 50.9	1.615	2.588	7.6	19.3	8 29	22 0.54	- 26 50.6	1.900	2.874	6.5	20.6
9 8	21 50.90	+ 8 6.8	1.606	2.562	9.0	19.4	9 8	21 52.57	- 26 51.2	1.941	2.872	9.3	20.8
9 18	21 43.14	+ 7 8.7	1.622	2.536	11.8	19.5	9 18	21 46.16	- 26 34.3	2.006	2.871	12.2	20.9
9 28	21 37.57	+ 6 4.1	1.660	2.510	15.0	19.6	9 28	21 41.92	- 26 1.3	2.092	2.870	14.8	21.1
<b>514238</b>	2015 OH <sub>88</sub>												

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>220846</b>	2004 <i>VD<sub>8</sub></i>		8 22.4 241°97	1°3/20.8	18		<b>501446</b>	2014 <i>AJ<sub>28</sub></i>		8 22.4 195°90	1°7/24.1	18	
7 20	22 26.82	-14 9.4	2.673	3.546	9.7	21.2	7 20	22 29.60	-3 57.1	2.306	3.149	12.1	22.4
7 30	22 22.05	-14 50.0	2.589	3.534	7.0	21.0	7 30	22 24.21	-4 18.9	2.224	3.146	9.2	22.2
8 9	22 15.88	-15 35.6	2.531	3.522	4.1	20.8	8 9	22 17.23	-4 53.0	2.165	3.143	5.9	22.0
8 19	22 8.78	-16 22.7	2.500	3.509	1.5	20.6	8 19	22 9.17	-5 36.8	2.134	3.139	2.6	21.8
8 29	22 1.35	-17 7.0	2.498	3.496	3.0	20.7	8 29	22 0.76	-6 26.6	2.131	3.134	2.5	21.8
9 8	21 54.29	-17 44.8	2.525	3.483	6.1	20.9	9 8	21 52.80	-7 17.7	2.157	3.129	5.8	22.0
9 18	21 48.23	-18 13.4	2.579	3.469	8.9	21.1	9 18	21 46.02	-8 5.5	2.210	3.123	9.2	22.2
9 28	21 43.68	-18 30.9	2.657	3.455	11.5	21.2	9 28	21 41.00	-8 46.5	2.288	3.117	12.1	22.4
<b>164552</b>	2006 <i>KJ<sub>6</sub></i>		8 22.4 95°73	0°3/22.6	16		<b>504330</b>	2007 <i>TD<sub>29</sub></i>		8 22.4 315°63	1°5/23.3	17	
7 20	22 29.44	-8 42.1	1.822	2.694	13.5	21.1	7 20	22 27.56	-6 29.6	1.151	2.044	18.2	21.1
7 30	22 24.33	-9 9.5	1.759	2.701	10.0	20.9	7 30	22 24.14	-6 44.3	1.075	2.026	13.8	20.8
8 9	22 17.35	-9 47.7	1.719	2.708	6.0	20.7	8 9	22 17.86	-7 18.9	1.017	2.008	8.7	20.4
8 19	22 9.15	-10 32.7	1.705	2.715	1.6	20.4	8 19	22 9.44	-8 9.8	0.981	1.990	3.1	20.1
8 29	22 0.67	-11 19.0	1.718	2.722	2.8	20.5	8 29	22 0.14	-9 9.9	0.968	1.973	3.8	20.1
9 8	21 52.88	-12 1.4	1.757	2.729	7.0	20.8	9 8	21 51.55	-10 9.6	0.977	1.957	9.7	20.3
9 18	21 46.61	-12 35.5	1.823	2.736	10.8	21.1	9 18	21 45.10	-11 0.6	1.008	1.942	15.2	20.6
9 28	21 42.49	-12 58.6	1.910	2.742	14.0	21.3	9 28	21 41.86	-11 36.3	1.057	1.927	20.0	20.8
<b>254253</b>	2004 <i>RM<sub>165</sub></i>		8 22.4 235°72	8°9/1.6	17		<b>236485</b>	2006 <i>FK<sub>36</sub></i>		8 22.4 70°92	1°2/23.4	18	
7 20	22 27.80	+19 21.3	2.638	3.335	14.3	20.4	7 20	22 29.11	-6 12.2	1.694	2.563	14.6	20.5
7 30	22 22.88	+20 9.7	2.546	3.328	12.8	20.3	7 30	22 24.18	-6 37.1	1.636	2.574	10.9	20.3
8 9	22 16.44	+20 37.7	2.473	3.320	11.2	20.2	8 9	22 17.30	-7 15.8	1.599	2.585	6.7	20.1
8 19	22 8.94	+20 43.1	2.422	3.312	9.8	20.1	8 19	22 9.18	-8 4.2	1.587	2.596	2.4	19.8
8 29	22 1.02	+20 25.0	2.395	3.304	9.0	20.0	8 29	22 0.79	-8 56.8	1.602	2.607	2.8	19.9
9 8	21 53.42	+19 45.6	2.393	3.296	9.1	20.0	9 8	21 53.15	-9 47.3	1.644	2.618	7.1	20.2
9 18	21 46.84	+18 48.8	2.415	3.288	10.1	20.1	9 18	21 47.12	-10 30.7	1.710	2.629	11.0	20.5
9 28	21 41.86	+17 40.5	2.461	3.279	11.7	20.1	9 28	21 43.32	-11 3.4	1.799	2.641	14.3	20.7
<b>364566</b>	2007 <i>PM<sub>8</sub></i>		8 22.4 5°86	8°2/28.1	17		<b>107453</b>	2001 <i>DQ<sub>23</sub></i>		8 22.4 128°51	2°0/20.8	17	
7 20	22 16.59	+4 12.6	0.739	1.641	24.5	19.7	7 20	22 32.23	-13 37.4	1.592	2.477	14.4	20.3
7 30	22 16.48	+4 43.2	0.694	1.639	20.1	19.4	7 30	22 26.63	-14 32.2	1.535	2.486	10.5	20.1
8 9	22 13.40	+4 33.6	0.664	1.640	15.1	19.1	8 9	22 18.82	-15 35.2	1.502	2.495	6.1	19.8
8 19	22 8.23	+3 43.0	0.649	1.644	10.3	18.9	8 19	22 9.58	-16 39.8	1.494	2.503	2.2	19.6
8 29	22 2.51	+2 18.1	0.652	1.651	8.3	18.8	8 29	22 0.02	-17 38.1	1.512	2.511	4.4	19.8
9 8	21 57.94	+0 33.4	0.673	1.660	11.0	19.0	9 8	21 51.33	-18 24.1	1.557	2.518	8.7	20.1
9 18	21 55.87	-1 14.5	0.712	1.672	15.7	19.3	9 18	21 44.47	-18 54.1	1.626	2.525	12.7	20.3
9 28	21 57.14	-2 50.5	0.767	1.686	20.3	19.7	9 28	21 40.14	-19 6.9	1.716	2.532	16.0	20.6
<b>105811</b>	2000 <i>SY<sub>138</sub></i>		8 22.4 354°99	3°3/24.8	18		<b>191237</b>	2002 <i>TA<sub>175</sub></i>		8 22.4 287°67	1°7/24.5	18	
7 20	22 29.09	-3 1.9	1.771	2.626	14.6	19.0	7 20	22 23.69	-2 5.4	2.482	3.324	11.3	19.8
7 30	22 24.20	-2 38.3	1.697	2.623	11.3	18.7	7 30	22 19.88	-2 52.9	2.389	3.310	8.7	19.6
8 9	22 17.36	-2 28.4	1.646	2.621	7.7	18.5	8 9	22 14.68	-3 54.9	2.320	3.296	5.7	19.4
8 19	22 9.20	-2 31.2	1.619	2.619	4.2	18.3	8 19	22 8.53	-5 8.6	2.278	3.282	2.6	19.1
8 29	22 0.64	-2 44.3	1.618	2.618	3.8	18.3	8 29	22 2.01	-6 29.6	2.264	3.268	2.3	19.1
9 8	21 52.71	-3 3.4	1.643	2.618	7.1	18.5	9 8	21 55.83	-7 52.3	2.279	3.254	5.4	19.3
9 18	21 46.29	-3 24.4	1.694	2.618	10.8	18.7	9 18	21 50.60	-9 11.4	2.322	3.239	8.6	19.5
9 28	21 42.06	-3 42.7	1.766	2.618	14.1	18.9	9 28	21 46.89	-10 22.2	2.390	3.225	11.4	19.6
<b>356990</b>	1998 <i>KS<sub>10</sub></i>		8 22.4 135°81	1°8/24.4	18		<b>75657</b>	2000 <i>AW<sub>75</sub></i>		8 22.4 214°12	1°2/23.4	18	
7 20	22 25.81	-2 40.0	2.297	3.142	12.1	21.1	7 20	22 31.13	-6 10.7	1.764	2.627	14.3	20.0
7 30	22 21.40	-3 18.9	2.224	3.147	9.2	20.9	7 30	22 25.79	-6 34.4	1.687	2.622	10.8	19.8
8 9	22 15.53	-4 11.6	2.174	3.151	5.9	20.7	8 9	22 18.36	-7 12.0	1.632	2.617	6.7	19.6
8 19	22 8.71	-5 14.9	2.151	3.156	2.7	20.5	8 19	22 9.50	-8 0.0	1.602	2.611	2.4	19.3
8 29	22 1.61	-6 24.3	2.156	3.160	2.5	20.5	8 29	22 0.16	-8 53.2	1.600	2.604	2.9	19.3
9 8	21 54.99	-7 34.5	2.190	3.164	5.6	20.8	9 8	21 51.42	-9 45.4	1.624	2.597	7.3	19.6
9 18	21 49.48	-8 40.2	2.251	3.168	8.8	21.0	9 18	21 44.24	-10 31.1	1.674	2.590	11.4	19.8
9 28	21 45.64	-9 37.5	2.336	3.172	11.7	21.2	9 28	21 39.37	-11 6.4	1.747	2.583	15.0	20.0
<b>508779</b>	1999 <i>VB<sub>138</sub></i>		8 22.4 333°39	13°9/13.1	18		<b>150859</b>	2001 <i>SK<sub>130</sub></i>		8 22.4 33°11	1°1/23.1	17	
7 20	22 26.17	-33 8.2	0.874	1.803	18.9	19.8	7 20	22 28.65	-7 0.4	1.225	2.114	17.6	19.5
7 30	22 24.48	-34 40.7	0.805	1.764	16.0	19.4	7 30	22 24.38	-7 22.2	1.175	2.125	13.1	19.3
8 9	22 18.77	-36 3.9	0.753	1.727	14.1	19.2	8 9	22 17.64	-8 1.0	1.146	2.136	7.9	19.0
8 19	22 9.78	-37 0.1	0.718	1.692	14.3	19.0	8 19	22 9.30	-8 51.5	1.139	2.148	2.6	18.7
8 29	21 59.34	-37 11.7	0.701	1.659	17.0	19.0	8 29	22 0.65	-9 46.1	1.156	2.161	3.4	18.8
9 8	21 49.93	-36 29.8	0.699	1.629	21.0	19.1	9 8	21 53.05	-10 36.9	1.197	2.175	8.6	19.2
9 18	21 43.74	-34 55.3	0.712	1.601	25.4	19.2	9 18	21 47.55	-11 17.6	1.260	2.189	13.3	19.5
9 28	21 42.18	-32 36.6	0.737	1.576	29.4	19.4	9 28	21 44.85	-11 44.2	1.344	2.203	17.2	19.8
<b>123934</b>	2001 <i>EU<sub>14</sub></i>		8 22.4 114°08	2°6/19.4	18		<b>387169</b>	2012 <i>TO<sub>255</sub></i>		8 22.4 201°41	4°1/25.8	18	
7 20	22 26.27	-17 4.1	2.403	3.286	10.3	19.6	7 20	22 30.35	+0 53.0	2.004	2.833	14.2	20.8
7 30	22 21.71	-18 10.0	2.343	3.293	7.4	19.5	7 30	22 24.97	+1 6.5	1.924	2.831	11.2	20.6
8 9	22 15.70	-19 19.6	2.308	3.299	4.4	19.3	8 9	22 17.77	+1 4.2	1.867	2.829	8.0	20.4
8 19	22 8.75	-20 27.5	2.301	3.305	2.6	19.2	8 19	22 9.34	+0 46.7	1.834	2.826	5.0	20.2
8 29	22 1.55	-21 28.4	2.322	3.311	4.2	19.3	8 29	22 0.51	+0 16.7	1.828	2.824	4.3	20.1
9 8	21 54.86	-22 18.0	2.371	3.317	7.1	19.5	9 8	21 52.20	-0 21.6	1.850	2.821	6.8	20.3
9 18	21 49.31	-22 53.7	2.446	3.322	9.9	19.7	9 18	21 45.25	-1 3.3	1.898	2.817	10.1	20.5
9 28	21 45.43	-23 14.4	2.543	3.328	12.3	19.9	9 28	21 40.32	-1 43.2	1.969	2.814	13.2	20.7
<b>521173</b>	2015 <i>FY<sub>409</sub></i>		8 22.4 173°30	4°8/18.6	18		<b>333009</b>	2011 <i>OU<sub>3</sub></i>		8 22.4 62°97	1°5/23.6	16	
7 20	22 35.88	-2											

EPHEMERIDES

8 22.4

8 22.4

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>50767</b>	2000 <i>FV</i> <sub>2</sub>		8 22.4 197°14	3°3/19.4	18		<b>260454</b>	2005 <i>AL</i> <sub>29</sub>		8 22.4 204°97	0°8/21.8	17	
7 20	22 30.75	-19 40.4	2.151	3.035	11.3	19.8	7 20	22 34.00	-11 36.7	1.763	2.636	13.9	21.6
7 30	22 25.18	-20 24.8	2.084	3.033	8.2	19.6	7 30	22 27.93	-12 7.3	1.688	2.632	10.2	21.4
8 9	22 17.84	-21 10.7	2.042	3.031	5.1	19.4	8 9	22 19.66	-12 47.1	1.636	2.627	6.0	21.1
8 19	22 9.36	-21 52.8	2.027	3.029	3.3	19.3	8 19	22 9.89	-13 31.2	1.610	2.621	1.5	20.8
8 29	22 0.56	-22 25.8	2.040	3.027	4.9	19.4	8 29	21 59.65	-14 13.8	1.612	2.615	3.5	21.0
9 8	21 52.37	-22 46.1	2.080	3.024	8.0	19.6	9 8	21 50.07	-14 49.3	1.641	2.607	7.9	21.2
9 18	21 45.57	-22 51.9	2.145	3.021	11.1	19.7	9 18	21 42.16	-15 13.9	1.696	2.600	12.0	21.4
9 28	21 40.78	-22 43.1	2.232	3.018	13.7	19.9	9 28	21 36.68	-15 25.5	1.772	2.591	15.5	21.7
<b>317810</b>	2003 <i>SR</i> <sub>228</sub>		8 22.4 332°41	1°3/21.3	18		<b>206692</b>	2003 <i>YT</i> <sub>156</sub>		8 22.4 298°68	2°3/24.5	18	
7 20	22 28.28	-14 16.3	2.110	2.990	11.6	20.4	7 20	22 27.16	-2 41.7	1.825	2.681	14.2	20.4
7 30	22 23.39	-14 35.8	2.037	2.985	8.5	20.2	7 30	22 22.80	-3 4.9	1.749	2.677	10.9	20.1
8 9	22 16.80	-15 0.3	1.988	2.980	4.9	20.0	8 9	22 16.58	-3 44.7	1.695	2.673	7.2	19.9
8 19	22 9.09	-15 26.1	1.965	2.975	1.6	19.7	8 19	22 9.09	-4 38.1	1.666	2.670	3.4	19.7
8 29	22 1.07	-15 48.8	1.970	2.970	3.3	19.9	8 29	22 1.18	-5 40.4	1.663	2.666	3.1	19.6
9 8	21 53.59	-16 4.8	2.002	2.966	6.9	20.1	9 8	21 53.83	-6 45.0	1.687	2.663	6.8	19.9
9 18	21 47.44	-16 11.6	2.060	2.962	10.3	20.3	9 18	21 47.89	-7 45.9	1.737	2.660	10.6	20.1
9 28	21 43.19	-16 7.9	2.140	2.958	13.2	20.5	9 28	21 44.03	-8 37.9	1.809	2.656	14.0	20.3
<b>470668</b>	2008 <i>SB</i> <sub>195</sub>		8 22.4 3°43	1°9/21.2	16		<b>39282</b>	2001 <i>BM</i> <sub>36</sub>		8 22.4 39°74	2°3/24.9	18	
7 20	22 26.67	-13 43.7	1.150	2.060	16.9	20.6	7 20	22 25.08	-2 37.6	2.600	3.440	11.0	17.6
7 30	22 23.21	-14 11.4	1.096	2.059	12.3	20.3	7 30	22 20.69	-2 39.2	2.534	3.452	8.4	17.5
8 9	22 17.10	-14 49.0	1.062	2.059	7.2	20.0	8 9	22 15.06	-2 51.4	2.493	3.465	5.6	17.3
8 19	22 9.21	-15 29.8	1.049	2.060	2.3	19.7	8 19	22 8.66	-3 12.5	2.478	3.478	3.0	17.2
8 29	22 0.89	-16 5.7	1.060	2.063	4.8	19.9	8 29	22 2.08	-3 40.0	2.491	3.492	2.6	17.2
9 8	21 53.59	-16 29.7	1.094	2.067	10.0	20.2	9 8	21 55.95	-4 10.6	2.532	3.505	5.0	17.4
9 18	21 48.49	-16 38.1	1.149	2.072	14.8	20.5	9 18	21 50.83	-4 40.9	2.600	3.519	7.7	17.6
9 28	21 46.35	-16 29.2	1.222	2.079	18.8	20.8	9 28	21 47.15	-5 7.8	2.693	3.533	10.2	17.7
<b>121803</b>	2000 <i>AC</i> <sub>167</sub>		8 22.4 145°86	4°3/27.4	18		<b>291494</b>	2006 <i>DQ</i> <sub>120</sub>		8 22.4 221°28	6°9/14.4	18	
7 20	22 25.87	+ 5 6.7	2.617	3.417	12.0	20.0	7 20	22 32.48	-35 31.1	2.677	3.543	9.9	20.2
7 30	22 21.32	+ 5 6.5	2.538	3.421	9.7	19.8	7 30	22 26.31	-36 26.1	2.621	3.537	8.2	20.1
8 9	22 15.46	+ 4 51.0	2.481	3.425	7.3	19.7	8 9	22 18.46	-37 12.2	2.589	3.532	7.1	20.0
8 19	22 8.74	+ 4 21.0	2.450	3.428	5.1	19.5	8 19	22 9.54	-37 44.1	2.584	3.526	7.0	20.0
8 29	22 1.77	+ 3 38.7	2.446	3.432	4.3	19.5	8 29	22 0.38	-37 57.5	2.605	3.520	8.1	20.1
9 8	21 55.20	+ 2 47.7	2.470	3.435	5.7	19.6	9 8	21 51.84	-37 50.7	2.652	3.514	9.8	20.2
9 18	21 49.61	+ 1 52.5	2.522	3.439	8.0	19.8	9 18	21 44.68	-37 24.4	2.721	3.507	11.6	20.3
9 28	21 45.50	+ 0 57.6	2.598	3.442	10.4	19.9	9 28	21 39.46	-36 40.9	2.811	3.501	13.3	20.4
<b>249749</b>	2000 <i>SV</i> <sub>250</sub>		8 22.4 307°41	2°1/20.9	18		<b>438663</b>	2008 <i>EL</i> <sub>38</sub>		8 22.4 65°14	4°4/18.5	18	
7 20	22 29.38	-13 5.3	1.242	2.144	16.5	20.4	7 20	22 30.61	-23 0.3	2.017	2.906	11.7	20.5
7 30	22 25.31	-13 53.7	1.172	2.130	12.2	20.1	7 30	22 25.12	-23 46.7	1.964	2.913	8.6	20.3
8 9	22 18.47	-14 55.0	1.121	2.117	7.1	19.8	8 9	22 17.82	-24 31.5	1.935	2.921	5.8	20.1
8 19	22 9.61	-16 1.7	1.094	2.104	2.4	19.5	8 19	22 9.38	-25 8.9	1.933	2.928	4.4	20.1
8 29	22 0.03	-17 4.2	1.091	2.091	5.1	19.6	8 29	22 0.73	-25 33.7	1.958	2.936	6.0	20.2
9 8	21 51.24	-17 53.8	1.111	2.079	10.5	19.9	9 8	21 52.83	-25 42.7	2.009	2.944	8.8	20.4
9 18	21 44.58	-18 24.7	1.153	2.067	15.5	20.1	9 18	21 46.47	-25 35.3	2.084	2.952	11.7	20.6
9 28	21 41.01	-18 34.5	1.213	2.056	19.7	20.4	9 28	21 42.22	-25 12.2	2.180	2.959	14.2	20.8
<b>362863</b>	2012 <i>BB</i> <sub>60</sub>		8 22.4 128°41	2°7/19.2	18		<b>25582</b>	1999 <i>XG</i> <sub>221</sub>		8 22.4 215°08	3°3/26.7	18	
7 20	22 27.09	-18 31.4	2.652	3.532	9.5	21.2	7 20	22 24.99	+ 3 18.9	2.897	3.703	10.8	19.2
7 30	22 22.19	-19 30.3	2.595	3.543	6.9	21.0	7 30	22 20.63	+ 3 0.1	2.806	3.697	8.7	19.1
8 9	22 15.95	-20 31.1	2.564	3.553	4.2	20.9	8 9	22 15.06	+ 2 27.4	2.738	3.690	6.3	18.9
8 19	22 8.86	-21 29.2	2.560	3.563	2.7	20.8	8 19	22 8.68	+ 1 42.0	2.696	3.683	4.1	18.8
8 29	22 1.58	-22 19.9	2.586	3.572	4.1	20.9	8 29	22 2.02	+ 0 46.5	2.683	3.676	3.4	18.7
9 8	21 54.77	-22 59.9	2.640	3.582	6.7	21.1	9 8	21 55.67	-0 15.2	2.699	3.668	5.0	18.8
9 18	21 49.05	-23 26.9	2.720	3.591	9.2	21.3	9 18	21 50.18	-1 19.0	2.743	3.660	7.4	18.9
9 28	21 44.88	-23 40.5	2.823	3.599	11.4	21.4	9 28	21 46.01	-2 20.7	2.813	3.652	9.8	19.1
<b>279387</b>	2010 <i>CA</i> <sub>70</sub>		8 22.4 19°09	1°2/23.6	18		<b>470624</b>	2008 <i>SF</i> <sub>27</sub>		8 22.4 334°06	0°7/22.0	16	
7 20	22 27.12	- 7 5.0	2.465	3.321	11.0	20.4	7 20	22 26.15	-11 55.9	1.151	2.058	17.1	21.7
7 30	22 22.27	- 7 5.6	2.392	3.323	8.2	20.2	7 30	22 23.15	-12 3.5	1.074	2.035	12.7	21.4
8 9	22 16.04	- 7 14.5	2.343	3.325	5.1	20.0	8 9	22 17.32	-12 22.9	1.017	2.013	7.6	21.0
8 19	22 8.90	- 7 29.6	2.320	3.328	2.0	19.8	8 19	22 9.38	-12 49.5	0.980	1.991	1.9	20.6
8 29	22 1.53	- 7 48.3	2.326	3.330	2.2	19.8	8 29	22 0.60	-13 16.5	0.967	1.972	4.2	20.7
9 8	21 54.62	- 8 7.4	2.360	3.333	5.4	20.0	9 8	21 52.54	-13 36.7	0.976	1.953	10.1	21.0
9 18	21 48.79	- 8 23.9	2.421	3.335	8.4	20.2	9 18	21 46.61	-13 44.7	1.005	1.937	15.5	21.2
9 28	21 44.56	- 8 35.5	2.506	3.338	11.1	20.4	9 28	21 43.87	-13 37.3	1.053	1.922	20.2	21.4
<b>255404</b>	2005 <i>WQ</i> <sub>190</sub>		8 22.4 265°26	2°7/19.9	18		<b>195493</b>	2002 <i>GK</i> <sub>161</sub>		8 22.4 87°66	3°0/19.9	17	
7 20	22 30.27	-18 48.6	2.242	3.123	11.0	20.5	7 20	22 30.52	-16 42.3	1.735	2.625	13.2	20.7
7 30	22 24.80	-19 16.9	2.167	3.115	8.0	20.3	7 30	22 25.24	-17 40.0	1.684	2.636	9.6	20.5
8 9	22 17.63	-19 46.9	2.116	3.106	4.9	20.1	8 9	22 17.96	-18 42.2	1.656	2.648	5.7	20.3
8 19	22 9.33	-20 14.2	2.093	3.097	2.7	19.9	8 19	22 9.43	-19 42.1	1.654	2.660	3.0	20.1
8 29	22 0.70	-20 34.3	2.097	3.089	4.3	20.0	8 29	22 0.65	-20 33.1	1.679	2.671	5.0	20.3
9 8	21 52.60	-20 43.9	2.129	3.080	7.5	20.2	9 8	21 52.69	-21 9.8	1.730	2.683	8.7	20.5
9 18	21 45.82	-20 41.3	2.187	3.071	10.6	20.4	9 18	21 46.41	-21 30.0	1.805	2.694	12.2	20.8
9 28	21 40.95	-20 26.3	2.267	3.062	13.3	20.6	9 28	21 42.43	-21 33.2	1.901	2.706	15.1	21.0
<b>277563</b>	2005 <i>YK</i> <sub>134</sub>		8 22.4 91°50	3°6/19.6	17		<b>514797</b>	2007 <i>PS</i> <sub>49</sub>		8 22.4 299°81	0°9/23		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>382595</b>	2002 <i>DD</i> <sub>18</sub>		8 22.4 160°91	0°3/22.2	17		<b>291444</b>	2006 <i>DW</i> <sub>35</sub>		8 22.4 169°39	1°2/21.4	17	
7 20	22 31.39	-10 39.3	2.018	2.886	12.6	21.8	7 20	22 31.60	-13 15.7	1.981	2.856	12.5	21.9
7 30	22 25.68	-11 6.6	1.950	2.891	9.2	21.6	7 30	22 25.90	-13 45.6	1.913	2.859	9.1	21.7
8 9	22 18.17	-11 42.3	1.906	2.895	5.4	21.4	8 9	22 18.35	-14 21.9	1.869	2.861	5.3	21.5
8 19	22 9.50	-12 22.3	1.889	2.899	1.3	21.1	8 19	22 9.59	-15 0.1	1.852	2.862	1.6	21.2
8 29	22 0.52	-13 1.8	1.899	2.903	2.8	21.2	8 29	22 0.51	-15 35.3	1.863	2.864	3.4	21.4
9 8	21 52.18	-13 36.1	1.938	2.905	6.8	21.5	9 8	21 52.08	-16 2.9	1.901	2.865	7.2	21.6
9 18	21 45.26	-14 1.8	2.003	2.908	10.4	21.7	9 18	21 45.13	-16 20.1	1.966	2.866	10.8	21.8
9 28	21 40.40	-14 16.9	2.091	2.910	13.4	21.9	9 28	21 40.28	-16 25.4	2.052	2.866	13.8	22.0
<b>399026</b>	2013 <i>GD</i> <sub>92</sub>		8 22.4 106°19	5°5/29.2	18		<b>124366</b>	2001 <i>QV</i> <sub>140</sub>		8 22.4 353°27	4°5/24.3	18	
7 20	22 27.23	+ 9 38.1	2.653	3.422	12.7	21.1	7 20	22 28.34	- 6 5.7	0.985	1.885	19.9	17.8
7 30	22 22.26	+ 9 49.1	2.585	3.440	10.5	21.0	7 30	22 24.90	- 4 54.7	0.923	1.875	15.5	17.5
8 9	22 16.00	+ 9 43.0	2.538	3.456	8.3	20.9	8 9	22 18.39	- 3 57.9	0.879	1.866	10.4	17.2
8 19	22 8.92	+ 9 19.9	2.516	3.473	6.4	20.8	8 19	22 9.69	- 3 16.5	0.855	1.860	5.6	17.0
8 29	22 1.66	+ 8 41.6	2.520	3.489	5.5	20.8	8 29	22 0.28	- 2 49.7	0.852	1.855	5.4	16.9
9 8	21 54.84	+ 7 51.7	2.552	3.505	6.3	20.8	9 8	21 51.90	- 2 34.0	0.871	1.853	10.1	17.2
9 18	21 49.06	+ 6 54.7	2.612	3.520	8.1	21.0	9 18	21 45.99	- 2 24.4	0.909	1.853	15.3	17.5
9 28	21 44.78	+ 5 55.4	2.696	3.535	10.2	21.1	9 28	21 43.51	- 2 15.4	0.965	1.855	19.9	17.8
<b>263194</b>	2007 <i>YN</i> <sub>48</sub>		8 22.4 11°41	5°7/18.4	17		<b>266238</b>	2006 <i>XZ</i> <sub>39</sub>		8 22.4 241°06	0°4/22.8	17	
7 20	22 27.75	-19 1.5	1.062	1.982	17.2	19.7	7 20	22 30.79	- 7 58.1	1.770	2.638	14.0	22.1
7 30	22 24.27	-20 30.0	1.017	1.983	12.6	19.5	7 30	22 25.65	- 8 31.2	1.687	2.627	10.5	21.9
8 9	22 17.86	-22 4.2	0.991	1.986	8.0	19.2	8 9	22 18.40	- 9 17.5	1.627	2.615	6.3	21.6
8 19	22 9.48	-23 31.8	0.987	1.989	5.8	19.1	8 19	22 9.65	-10 13.0	1.593	2.603	1.8	21.3
8 29	22 0.63	-24 40.6	1.005	1.993	8.5	19.3	8 29	22 0.35	-11 11.6	1.585	2.590	3.0	21.4
9 8	21 52.96	-25 22.2	1.045	1.998	13.0	19.6	9 8	21 51.58	-12 7.0	1.605	2.576	7.5	21.6
9 18	21 47.74	-25 34.3	1.105	2.004	17.3	19.8	9 18	21 44.34	-12 53.6	1.650	2.563	11.7	21.8
9 28	21 45.78	-25 18.6	1.181	2.011	21.0	20.1	9 28	21 39.41	-13 27.8	1.717	2.549	15.4	22.1
<b>445500</b>	2010 <i>VH</i> <sub>207</sub>		8 22.4 321°75	4°6/26.6	18		<b>344445</b>	2002 <i>HQ</i> <sub>7</sub>		8 22.4 65°73	6°8/29.4	17	
7 20	22 27.17	+ 2 42.8	2.093	2.917	13.8	21.2	7 20	22 28.09	+10 2.1	1.667	2.466	17.8	20.7
7 30	22 22.62	+ 2 56.3	2.012	2.912	11.1	21.0	7 30	22 23.44	+ 9 50.7	1.614	2.490	14.7	20.5
8 9	22 16.41	+ 2 53.2	1.952	2.908	8.1	20.8	8 9	22 16.91	+ 9 11.7	1.580	2.514	11.4	20.4
8 19	22 9.07	+ 2 34.1	1.917	2.904	5.5	20.7	8 19	22 9.21	+ 8 6.5	1.568	2.538	8.3	20.3
8 29	22 1.35	+ 2 1.2	1.909	2.900	4.7	20.6	8 29	22 1.30	+ 6 39.7	1.581	2.562	6.8	20.2
9 8	21 54.09	+ 1 18.6	1.927	2.897	6.6	20.7	9 8	21 54.20	+ 4 59.6	1.620	2.586	8.0	20.4
9 18	21 48.06	+ 0 31.4	1.972	2.893	9.6	20.9	9 18	21 48.70	+ 3 15.3	1.685	2.610	10.7	20.6
9 28	21 43.88	- 0 15.2	2.039	2.890	12.5	21.1	9 28	21 45.40	+ 1 35.4	1.773	2.634	13.6	20.8
<b>472489</b>	2015 <i>CF</i> <sub>9</sub>		8 22.4 116°68	1°2/23.4	17		<b>350419</b>	2012 <i>VO</i> <sub>64</sub>		8 22.4 295°54	2°0/20.9	18	
7 20	22 32.13	- 6 20.4	1.722	2.585	14.6	21.7	7 20	22 30.30	-14 59.5	1.719	2.607	13.4	20.6
7 30	22 26.40	- 6 40.8	1.662	2.597	10.9	21.5	7 30	22 25.31	-15 31.8	1.646	2.597	9.8	20.4
8 9	22 18.66	- 7 14.4	1.625	2.610	6.7	21.2	8 9	22 18.19	-16 10.6	1.594	2.587	5.8	20.1
8 19	22 9.65	- 7 57.4	1.613	2.622	2.4	21.0	8 19	22 9.59	-16 50.5	1.568	2.578	2.2	19.9
8 29	22 0.36	- 8 44.4	1.629	2.633	2.9	21.1	8 29	22 0.51	-17 25.4	1.569	2.568	4.2	20.0
9 8	21 51.86	- 9 29.6	1.671	2.644	7.1	21.3	9 8	21 52.09	-17 50.2	1.596	2.559	8.4	20.2
9 18	21 45.03	-10 8.3	1.739	2.655	11.0	21.6	9 18	21 45.29	-18 1.8	1.647	2.549	12.4	20.5
9 28	21 40.51	-10 37.0	1.829	2.665	14.4	21.9	9 28	21 40.87	-17 58.7	1.719	2.540	15.8	20.7
<b>380301</b>	2002 <i>CV</i> <sub>254</sub>		8 22.4 115°49	5°2/26.6	18		<b>383618</b>	2007 <i>ME</i> <sub>21</sub>		8 22.4 20°69	7°5/26.8	18	
7 20	22 31.76	+ 3 7.2	1.868	2.688	15.4	20.6	7 20	22 31.86	+ 3 21.4	1.380	2.221	18.8	19.4
7 30	22 26.06	+ 3 31.2	1.800	2.698	12.3	20.4	7 30	22 26.67	+ 4 33.0	1.320	2.227	15.3	19.2
8 9	22 18.45	+ 3 37.1	1.754	2.708	9.0	20.2	8 9	22 19.06	+ 5 23.2	1.280	2.234	11.6	19.0
8 19	22 9.61	+ 3 25.0	1.732	2.717	6.1	20.0	8 19	22 9.81	+ 5 50.0	1.261	2.242	8.5	18.8
8 29	22 0.44	+ 2 57.4	1.736	2.726	5.3	20.0	8 29	22 0.14	+ 5 53.6	1.266	2.251	7.6	18.8
9 8	21 51.94	+ 2 18.7	1.768	2.735	7.3	20.2	9 8	21 51.34	+ 5 38.4	1.295	2.261	9.6	19.0
9 18	21 44.94	+ 1 34.6	1.824	2.743	10.4	20.4	9 18	21 44.51	+ 5 10.7	1.346	2.271	12.9	19.2
9 28	21 40.11	+ 0 50.7	1.904	2.752	13.4	20.6	9 28	21 40.44	+ 4 38.0	1.419	2.282	16.2	19.4
<b>21972</b>	1999 <i>XU</i>		8 22.4 348°92	6°6/17.8	18		<b>71634</b>	2000 <i>EK</i> <sub>80</sub>		8 22.4 241°02	1°8/20.5	18	
7 20	22 23.91	-21 46.6	1.087	2.012	16.4	17.1	7 20	22 27.88	-16 10.0	2.561	3.438	9.9	19.4
7 30	22 21.56	-22 58.3	1.031	1.999	12.2	16.8	7 30	22 22.91	-16 43.3	2.484	3.430	7.2	19.2
8 9	22 16.36	-24 12.8	0.994	1.987	8.3	16.6	8 9	22 16.49	-17 20.1	2.432	3.423	4.3	19.0
8 19	22 9.14	-25 18.9	0.978	1.977	6.6	16.4	8 19	22 9.12	-17 56.5	2.407	3.415	1.9	18.8
8 29	22 1.31	-26 5.4	0.984	1.969	9.2	16.5	8 29	22 1.45	-18 28.6	2.412	3.407	3.4	18.9
9 8	21 54.48	-26 24.7	1.011	1.963	13.4	16.8	9 8	21 54.22	-18 52.9	2.444	3.399	6.4	19.1
9 18	21 49.97	-26 14.8	1.057	1.958	17.7	17.0	9 18	21 48.06	-19 7.2	2.503	3.391	9.3	19.3
9 28	21 48.64	-25 37.5	1.119	1.956	21.5	17.2	9 28	21 43.51	-19 10.5	2.585	3.382	11.8	19.4
<b>338229</b>	2002 <i>TN</i> <sub>66</sub>		8 22.4 338°69	16°1/26.6	16		<b>360411</b>	2002 <i>GV</i> <sub>81</sub>		8 22.4 179°49	5°1/16.2	18	
7 20	22 41.86	+ 8 57.4	0.952	1.784	25.8	19.8	7 20	22 31.09	-29 50.6	2.916	3.789	9.0	21.5
7 30	22 35.42	+12 8.7	0.892	1.780	22.5	19.6	7 30	22 25.12	-30 43.7	2.859	3.790	7.0	21.4
8 9	22 25.01	+14 56.8	0.848	1.775	19.2	19.4	8 9	22 17.73	-31 31.7	2.827	3.791	5.5	21.3
8 19	22 11.51	+17 7.7	0.822	1.772	16.7	19.2	8 19	22 9.43	-32 9.9	2.823	3.791	5.2	21.3
8 29	21 56.69	+18 30.4	0.817	1.769	16.1	19.2	8 29	22 0.91	-32 34.4	2.848	3.791	6.3	21.4
9 8	21 42.87	+19 3.4	0.830	1.766	17.7	19.3	9 8	21 52.91	-32 43.2	2.899	3.791	8.1	21.5
9 18	21 32.08	+18 54.0	0.862	1.764	20.6	19.4	9 18	21 46.07	-32 35.9	2.975	3.790	10.0	21.6
9 28	21 25.71	+18 16.4	0.908	1.763	23.9	19.6	9 28	21 40.88	-32 13.7	3.072	3.788	11.8	21.7
<b>390416</b>	2013 <i>YA</i> <sub>32</sub>		8 22.4 323°48	3°4/19.2	18		<b>188749</b>	2005 <i>UO</i> <sub>228</sub>					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>8197</b>	Mizunohiroshi	8 22.4 274°32	3°6/18.9	18			<b>12726</b>	1991 PQ <sub>16</sub>	8 22.4 298°77	1°9/24.0	18		
7 20	22 28.83	-18 57.4	1.963	2.853	11.9	17.4	7 20	22 27.37	-3 25.5	1.441	2.312	16.5	17.3
7 30	22 24.11	-20 1.3	1.887	2.839	8.7	17.1	7 30	22 23.50	-4 4.8	1.365	2.303	12.6	17.0
8 9	22 17.44	-21 9.4	1.834	2.824	5.5	16.9	8 9	22 17.29	-5 5.6	1.309	2.293	8.0	16.8
8 19	22 9.41	-22 15.0	1.808	2.810	3.6	16.8	8 19	22 9.42	-6 23.6	1.277	2.284	3.3	16.4
8 29	22 0.90	-23 11.5	1.809	2.795	5.6	16.9	8 29	22 0.95	-7 51.6	1.270	2.275	3.3	16.4
9 8	21 52.90	-23 53.2	1.836	2.780	8.9	17.0	9 8	21 53.11	-9 20.0	1.289	2.267	8.1	16.7
9 18	21 46.33	-24 17.3	1.888	2.765	12.3	17.2	9 18	21 47.01	-10 40.1	1.331	2.258	12.9	16.9
9 28	21 41.89	-24 23.0	1.961	2.751	15.3	17.4	9 28	21 43.50	-11 45.3	1.395	2.250	17.0	17.2
<b>16898</b>	1998 DJ <sub>10</sub>	8 22.4 252°17	0°3/22.1	18			<b>385752</b>	2005 YZ <sub>13</sub>	8 22.4 246°49	6°7/27.1	18		
7 20	22 28.85	-10 44.4	2.336	3.203	11.1	18.6	7 20	22 33.04	+ 5 29.2	1.894	2.700	15.7	21.9
7 30	22 23.79	-11 11.3	2.248	3.188	8.2	18.3	7 30	22 27.24	+ 6 18.8	1.806	2.690	13.0	21.7
8 9	22 17.11	-11 46.0	2.184	3.173	4.9	18.1	8 9	22 19.34	+ 6 50.6	1.739	2.679	10.1	21.5
8 19	22 9.31	-12 25.2	2.147	3.157	1.2	17.8	8 19	22 9.95	+ 7 2.9	1.696	2.669	7.5	21.3
8 29	22 1.10	-13 4.6	2.138	3.141	2.6	17.9	8 29	21 59.96	+ 6 55.8	1.679	2.658	6.7	21.3
9 8	21 53.28	-13 40.1	2.158	3.125	6.3	18.1	9 8	21 50.43	+ 6 32.6	1.689	2.647	8.4	21.3
9 18	21 46.60	-14 8.2	2.204	3.108	9.6	18.3	9 18	21 42.35	+ 5 58.0	1.723	2.636	11.3	21.5
9 28	21 41.68	-14 26.6	2.275	3.091	12.6	18.5	9 28	21 36.51	+ 5 18.3	1.781	2.624	14.4	21.7
<b>231763</b>	1999 UH <sub>36</sub>	8 22.4 11°95	4°4/20.3	18			<b>169073</b>	2001 GZ <sub>3</sub>	8 22.4 196°84	3°2/18.8	18		
7 20	22 35.57	-21 48.3	1.310	2.211	15.9	19.1	7 20	22 29.47	-18 26.7	2.367	3.247	10.5	20.7
7 30	22 29.51	-21 52.5	1.257	2.213	11.8	18.8	7 30	22 24.23	-19 42.2	2.297	3.244	7.6	20.5
8 9	22 20.73	-21 54.3	1.225	2.217	7.4	18.6	8 9	22 17.36	-21 1.2	2.252	3.241	4.8	20.3
8 19	22 10.24	-21 47.5	1.217	2.221	4.5	18.5	8 19	22 9.39	-22 17.8	2.236	3.237	3.2	20.2
8 29	21 59.49	-21 26.8	1.233	2.226	6.4	18.6	8 29	22 1.06	-23 26.1	2.248	3.232	4.9	20.3
9 8	21 49.96	-20 50.1	1.274	2.232	10.6	18.8	9 8	21 53.20	-24 21.0	2.289	3.227	7.8	20.5
9 18	21 42.82	-19 58.6	1.337	2.239	14.7	19.1	9 18	21 46.54	-24 59.9	2.355	3.221	10.6	20.7
9 28	21 38.77	-18 54.5	1.419	2.247	18.2	19.4	9 28	21 41.68	-25 22.0	2.444	3.214	13.1	20.8
<b>218388</b>	2004 PD <sub>16</sub>	8 22.4 309°80	1°3/23.5	18			<b>384502</b>	2010 CF <sub>109</sub>	8 22.5 203°40	0°1/22.5	18		
7 20	22 29.40	- 7 31.7	2.043	2.905	12.7	20.0	7 20	22 31.95	-10 15.1	1.876	2.746	13.3	21.6
7 30	22 24.34	- 7 25.4	1.960	2.895	9.5	19.8	7 30	22 26.29	-10 28.4	1.803	2.744	9.8	21.4
8 9	22 17.49	- 7 28.5	1.900	2.884	6.0	19.6	8 9	22 18.67	-10 50.5	1.753	2.742	5.8	21.2
8 19	22 9.41	- 7 38.9	1.866	2.874	2.3	19.3	8 19	22 9.75	-11 17.9	1.730	2.740	1.5	20.9
8 29	22 0.93	- 7 53.6	1.859	2.864	2.6	19.3	8 29	22 0.44	-11 45.9	1.733	2.737	2.9	21.0
9 8	21 52.94	- 8 8.8	1.880	2.854	6.4	19.5	9 8	21 51.77	-12 10.2	1.765	2.735	7.1	21.2
9 18	21 46.26	- 8 21.3	1.927	2.844	10.1	19.7	9 18	21 44.62	-12 27.2	1.821	2.732	10.9	21.5
9 28	21 41.55	- 8 28.2	1.997	2.835	13.3	19.9	9 28	21 39.67	-12 34.7	1.901	2.729	14.2	21.7
<b>312488</b>	2008 VH <sub>68</sub>	8 22.4 144°47	3°6/19.6	17			<b>216888</b>	Sankovich	8 22.5 262°60	6°4/27.9	18		
7 20	22 32.52	-16 4.6	1.409	2.305	15.3	21.0	7 20	22 29.84	+ 7 40.7	2.124	2.915	14.7	20.4
7 30	22 27.23	-17 23.0	1.354	2.310	11.1	20.8	7 30	22 24.80	+ 8 5.9	2.022	2.894	12.3	20.2
8 9	22 19.42	-18 49.1	1.321	2.314	6.7	20.5	8 9	22 17.88	+ 8 12.1	1.941	2.873	9.7	20.0
8 19	22 9.93	-20 13.8	1.313	2.319	3.7	20.4	8 19	22 9.58	+ 7 58.0	1.883	2.851	7.4	19.8
8 29	22 0.01	-21 27.1	1.330	2.322	6.1	20.5	8 29	22 0.67	+ 7 24.3	1.852	2.828	6.5	19.7
9 8	21 51.03	-22 21.4	1.372	2.326	10.4	20.8	9 8	21 52.07	+ 6 34.7	1.847	2.805	7.8	19.7
9 18	21 44.10	-22 53.4	1.438	2.329	14.5	21.0	9 18	21 44.64	+ 5 34.4	1.868	2.781	10.5	19.8
9 28	21 40.02	-23 2.8	1.522	2.332	18.0	21.3	9 28	21 39.16	+ 4 30.1	1.912	2.758	13.5	20.0
<b>185790</b>	1999 VR <sub>70</sub>	8 22.4 235°59	5°9/17.7	18			<b>322056</b>	2010 VQ <sub>75</sub>	8 22.5 296°90	3°2/25.2	18		
7 20	22 34.52	-24 12.8	1.716	2.607	13.3	21.1	7 20	22 28.06	- 1 26.2	2.151	2.991	13.0	20.5
7 30	22 28.57	-25 21.2	1.648	2.597	10.1	20.9	7 30	22 23.30	- 1 16.4	2.066	2.982	10.1	20.3
8 9	22 20.20	-26 28.9	1.604	2.586	7.1	20.7	8 9	22 16.87	- 1 19.8	2.004	2.973	7.0	20.1
8 19	22 10.15	-27 27.2	1.584	2.575	5.9	20.6	8 19	22 9.29	- 1 35.4	1.967	2.965	4.0	19.9
8 29	21 59.57	-28 8.3	1.591	2.563	7.8	20.7	8 29	22 1.32	- 2 0.8	1.957	2.956	3.5	19.8
9 8	21 49.73	-28 27.4	1.624	2.551	11.1	20.9	9 8	21 53.78	- 2 32.0	1.975	2.948	6.2	20.0
9 18	21 41.77	-28 23.2	1.679	2.539	14.5	21.1	9 18	21 47.45	- 3 5.0	2.018	2.939	9.5	20.2
9 28	21 36.48	-27 57.6	1.753	2.526	17.4	21.2	9 28	21 42.94	- 3 35.5	2.086	2.931	12.5	20.4
<b>141892</b>	2002 PU <sub>55</sub>	8 22.4 25°97	3°4/25.1	17			<b>72446</b>	2001 DM	8 22.5 60°78	3°4/19.4	18		
7 20	22 26.57	- 0 51.7	1.202	2.077	18.8	19.3	7 20	22 30.27	-20 51.3	2.168	3.053	11.1	19.0
7 30	22 23.03	- 1 18.6	1.146	2.083	14.6	19.1	7 30	22 24.77	-21 24.5	2.114	3.063	8.1	18.8
8 9	22 17.01	- 2 10.9	1.108	2.089	9.7	18.9	8 9	22 17.62	-21 57.4	2.084	3.072	5.1	18.7
8 19	22 9.32	- 3 24.8	1.092	2.096	4.9	18.6	8 19	22 9.45	-22 25.4	2.080	3.081	3.4	18.6
8 29	22 1.20	- 4 52.1	1.100	2.104	4.1	18.6	8 29	22 1.10	-22 43.9	2.105	3.091	4.9	18.7
9 8	21 54.00	- 6 22.0	1.132	2.113	8.5	18.9	9 8	21 53.43	-22 50.1	2.156	3.100	7.8	18.9
9 18	21 48.84	- 7 44.8	1.186	2.122	13.2	19.2	9 18	21 47.17	-22 43.0	2.232	3.110	10.7	19.1
9 28	21 46.48	- 8 52.9	1.261	2.132	17.4	19.5	9 28	21 42.86	-22 22.9	2.331	3.120	13.2	19.3
<b>60844</b>	2000 HF <sub>62</sub>	8 22.4 221°95	2°0/21.1	17	R		<b>448080</b>	2008 GY <sub>139</sub>	8 22.5 27°58	4°3/26.8	18		
7 20	22 33.52	-13 38.6	1.418	2.308	15.6	20.8	7 20	22 25.73	+ 3 12.7	2.050	2.875	14.0	21.3
7 30	22 28.04	-14 22.6	1.351	2.303	11.4	20.6	7 30	22 21.59	+ 3 5.6	1.976	2.878	11.2	21.1
8 9	22 19.97	-15 16.3	1.306	2.299	6.7	20.3	8 9	22 15.84	+ 2 40.3	1.924	2.881	8.1	20.9
8 19	22 10.11	-16 12.9	1.284	2.294	2.3	20.0	8 19	22 9.02	+ 1 58.0	1.896	2.884	5.3	20.7
8 29	21 59.68	-17 4.2	1.289	2.289	4.7	20.2	8 29	22 1.87	+ 1 2.1	1.894	2.888	4.4	20.7
9 8	21 50.10	-17 43.3	1.319	2.283	9.6	20.4	9 8	21 55.24	- 0 2.0	1.920	2.892	6.4	20.8
9 18	21 42.56	-18 6.0	1.372	2.278	14.1	20.7	9 18	21 49.85	- 1 8.5	1.971	2.896	9.4	21.0
9 28	21 37.90	-18 10.8	1.445	2.272	18.0	20.9	9 28	21 46.27	- 2 11.5	2.047	2.900	12.4	21.2
<b>477503</b>	2010 CL <sub>94</sub>	8 22.4 55°30	1°0/21.7	18			<b>219310</b>	2000 EJ <sub>27</sub>	8 22.5 83°70	1°8/23.9	17		
7 20	22 31.00	-12 32.9	1.673	2.556	14.0								



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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>251828</b>	1999 <i>TE</i> <sub>195</sub>		8 22.5 274°43	2°8/20.6	17		<b>396</b>	Aeolia		8 22.5 43°47	1°7/23.8	18	
7 20	22 33.58	-16 11.9	1.581	2.469	14.4	20.7	7 20	22 28.97	-5 27.5	1.550	2.421	15.5	13.8
7 30	22 28.13	-16 49.7	1.495	2.447	10.6	20.4	7 30	22 24.27	-5 41.2	1.496	2.434	11.7	13.6
8 9	22 20.12	-17 34.4	1.432	2.425	6.4	20.1	8 9	22 17.52	-6 9.8	1.463	2.448	7.3	13.4
8 19	22 10.21	-18 19.6	1.394	2.402	2.9	19.8	8 19	22 9.47	-6 49.8	1.454	2.462	2.9	13.2
8 29	21 59.54	-18 58.0	1.382	2.379	5.1	19.9	8 29	22 1.17	-7 35.5	1.472	2.476	3.0	13.2
9 8	21 49.45	-19 23.4	1.396	2.355	9.7	20.1	9 8	21 53.70	-8 20.8	1.515	2.491	7.3	13.5
9 18	21 41.17	-19 32.1	1.433	2.332	14.1	20.3	9 18	21 47.96	-9 0.3	1.582	2.507	11.3	13.8
9 28	21 35.63	-19 23.3	1.491	2.308	18.0	20.5	9 28	21 44.56	-9 30.0	1.671	2.522	14.8	14.1
<b>72880</b>	2001 <i>KP</i> <sub>7</sub>		8 22.5 204°56	1°6/24.3	18		<b>399937</b>	2005 <i>YD</i> <sub>251</sub>		8 22.5 268°39	0°4/22.9	18	
7 20	22 25.93	-3 46.1	2.771	3.612	10.4	20.0	7 20	22 26.75	-8 13.2	2.333	3.196	11.3	21.8
7 30	22 21.39	-4 8.8	2.688	3.609	7.9	19.8	7 30	22 22.25	-8 40.9	2.249	3.186	8.4	21.6
8 9	22 15.58	-4 41.8	2.629	3.605	5.1	19.6	8 9	22 16.22	-9 18.1	2.190	3.176	5.1	21.3
8 19	22 8.95	-5 23.0	2.597	3.601	2.3	19.4	8 19	22 9.15	-10 1.7	2.156	3.166	1.5	21.1
8 29	22 2.04	-6 9.5	2.593	3.597	2.2	19.4	8 29	22 1.72	-10 47.7	2.152	3.156	2.3	21.1
9 8	21 55.49	-6 57.2	2.619	3.592	4.9	19.6	9 8	21 54.71	-11 31.6	2.175	3.146	5.9	21.3
9 18	21 49.85	-7 42.7	2.673	3.587	7.7	19.8	9 18	21 48.79	-12 9.6	2.225	3.135	9.2	21.5
9 28	21 45.60	-8 22.7	2.752	3.582	10.2	19.9	9 28	21 44.55	-12 38.7	2.298	3.125	12.1	21.7
<b>44432</b>	1998 <i>TP</i> <sub>19</sub>		8 22.5 125°53	5°9/29.8	18		<b>418100</b>	2007 <i>WZ</i> <sub>61</sub>		8 22.5 140°00	3°5/25.2	17	
7 20	22 25.46	+10 59.0	2.560	3.326	13.1	19.0	7 20	22 32.78	-0 44.1	1.668	2.511	15.9	21.3
7 30	22 21.13	+10 59.2	2.481	3.332	11.1	18.9	7 30	22 27.04	-0 48.9	1.602	2.520	12.4	21.1
8 9	22 15.46	+10 40.4	2.423	3.337	8.8	18.7	8 9	22 19.19	-1 12.0	1.558	2.529	8.4	20.9
8 19	22 8.92	+10 2.8	2.388	3.343	6.8	18.6	8 19	22 9.95	-1 51.2	1.537	2.537	4.6	20.7
8 29	22 2.11	+9 8.2	2.381	3.348	5.9	18.6	8 29	22 0.34	-2 42.0	1.544	2.545	4.0	20.6
9 8	21 55.71	+8 0.7	2.400	3.353	6.6	18.6	9 8	21 51.48	-3 38.1	1.577	2.552	7.3	20.9
9 18	21 50.32	+6 45.5	2.446	3.358	8.4	18.8	9 18	21 44.33	-4 33.0	1.636	2.558	11.2	21.1
9 28	21 46.44	+5 28.4	2.517	3.363	10.6	18.9	9 28	21 39.56	-5 21.4	1.717	2.564	14.7	21.3
<b>373204</b>	2012 <i>DO</i> <sub>88</sub>		8 22.5 81°13	1°6/21.5	17		<b>351844</b>	2006 <i>QF</i> <sub>139</sub>		8 22.5 329°25	1°0/23.4	18	
7 20	22 35.06	-14 14.0	1.416	2.304	15.7	20.9	7 20	22 26.42	-5 54.4	1.734	2.605	14.2	20.5
7 30	22 28.95	-14 32.3	1.362	2.313	11.5	20.7	7 30	22 22.43	-6 30.0	1.659	2.599	10.6	20.2
8 9	22 20.37	-14 57.3	1.329	2.322	6.7	20.5	8 9	22 16.52	-7 20.7	1.607	2.593	6.6	20.0
8 19	22 10.21	-15 23.5	1.321	2.331	2.1	20.2	8 19	22 9.27	-8 22.7	1.579	2.588	2.3	19.7
8 29	21 59.76	-15 44.6	1.339	2.340	4.2	20.4	8 29	22 1.58	-9 29.8	1.577	2.583	2.8	19.7
9 8	21 50.37	-15 56.0	1.382	2.349	9.0	20.7	9 8	21 54.46	-10 35.3	1.603	2.578	7.1	20.0
9 18	21 43.10	-15 55.0	1.449	2.358	13.3	20.9	9 18	21 48.80	-11 33.0	1.653	2.573	11.2	20.2
9 28	21 38.66	-15 41.1	1.536	2.367	16.9	21.2	9 28	21 45.29	-12 18.5	1.725	2.569	14.7	20.5
<b>155778</b>	2000 <i>SF</i> <sub>287</sub>		8 22.5 21°83	1°7/21.8	18		<b>121327</b>	Andrewaker		8 22.5 319°89	1°0/21.6	18	
7 20	22 37.76	-17 4.2	1.229	2.125	17.1	18.0	7 20	22 27.07	-12 21.3	1.832	2.716	12.9	19.9
7 30	22 31.14	-16 33.8	1.178	2.133	12.5	17.7	7 30	22 22.92	-12 50.4	1.749	2.699	9.5	19.7
8 9	22 21.71	-16 4.9	1.148	2.141	7.4	17.5	8 9	22 16.82	-13 28.2	1.689	2.682	5.6	19.4
8 19	22 10.55	-15 33.8	1.141	2.151	2.3	17.2	8 19	22 9.35	-14 10.3	1.655	2.666	1.5	19.1
8 29	21 59.19	-14 57.3	1.159	2.162	4.4	17.4	8 29	22 1.39	-14 51.1	1.647	2.649	3.4	19.2
9 8	21 49.18	-14 13.7	1.202	2.174	9.5	17.7	9 8	21 53.93	-15 25.5	1.666	2.634	7.6	19.5
9 18	21 41.68	-13 23.2	1.268	2.186	14.1	18.0	9 18	21 47.88	-15 49.3	1.709	2.619	11.6	19.7
9 28	21 37.39	-12 26.5	1.354	2.200	17.9	18.3	9 28	21 43.97	-16 0.0	1.773	2.604	15.0	19.9
<b>224120</b>	2005 <i>QM</i> <sub>8</sub>		8 22.5 38°85	1°3/23.4	17		<b>363047</b>	1999 <i>TR</i> <sub>332</sub>		8 22.5 302°25	4°3/18.7	18	
7 20	22 29.19	-6 14.7	1.176	2.065	18.2	20.0	7 20	22 30.73	-23 11.0	2.094	2.981	11.4	21.0
7 30	22 24.88	-6 39.1	1.131	2.080	13.5	19.7	7 30	22 25.35	-23 49.5	2.024	2.972	8.5	20.8
8 9	22 18.04	-7 21.8	1.105	2.095	8.3	19.5	8 9	22 18.12	-24 26.8	1.979	2.964	5.7	20.6
8 19	22 9.61	-8 17.2	1.102	2.111	2.8	19.2	8 19	22 9.67	-24 57.4	1.960	2.956	4.3	20.5
8 29	22 0.91	-9 17.4	1.122	2.128	3.5	19.3	8 29	22 0.87	-25 16.0	1.968	2.948	5.9	20.6
9 8	21 53.31	-10 13.6	1.166	2.145	8.7	19.7	9 8	21 52.68	-25 19.6	2.003	2.940	8.8	20.7
9 18	21 47.89	-10 59.4	1.233	2.163	13.4	20.0	9 18	21 45.96	-25 7.0	2.062	2.932	11.8	20.9
9 28	21 45.33	-11 30.3	1.319	2.181	17.3	20.3	9 28	21 41.32	-24 39.1	2.142	2.924	14.4	21.1
<b>94209</b>	2001 <i>BB</i> <sub>33</sub>		8 22.5 274°29	0°4/22.7	18		<b>283053</b>	2008 <i>GJ</i> <sub>120</sub>		8 22.5 227°33	1°9/20.8	18	
7 20	22 31.34	-10 32.8	2.268	3.130	11.6	18.9	7 20	22 31.70	-13 16.3	1.803	2.683	13.3	21.2
7 30	22 25.57	-10 25.8	2.188	3.125	8.6	18.7	7 30	22 26.36	-14 14.9	1.725	2.673	9.7	21.0
8 9	22 18.15	-10 25.5	2.132	3.119	5.2	18.4	8 9	22 18.88	-15 22.9	1.670	2.662	5.7	20.7
8 19	22 9.63	-10 29.1	2.103	3.113	1.5	18.2	8 19	22 9.90	-16 34.2	1.642	2.651	2.1	20.4
8 29	22 0.79	-10 33.7	2.103	3.107	2.4	18.2	8 29	22 0.38	-17 41.6	1.641	2.639	4.2	20.6
9 8	21 52.45	-10 36.5	2.131	3.101	6.1	18.5	9 8	21 51.41	-18 38.3	1.667	2.627	8.4	20.8
9 18	21 45.37	-10 35.2	2.186	3.095	9.4	18.7	9 18	21 44.00	-19 19.8	1.719	2.614	12.4	21.0
9 28	21 40.14	-10 28.0	2.265	3.089	12.4	18.9	9 28	21 38.92	-19 44.0	1.791	2.600	15.7	21.2
<b>183869</b>	2004 <i>CP</i> <sub>35</sub>		8 22.5 122°70	2°0/20.9	18		<b>371875</b>	2008 <i>CX</i> <sub>33</sub>		8 22.5 122°31	1°0/21.7	17	
7 20	22 33.06	-14 18.0	1.658	2.542	14.1	20.0	7 20	22 32.56	-11 11.5	1.682	2.559	14.2	21.6
7 30	22 27.23	-15 2.6	1.603	2.552	10.2	19.8	7 30	22 26.83	-11 59.8	1.627	2.572	10.4	21.4
8 9	22 19.26	-15 54.1	1.570	2.562	5.9	19.6	8 9	22 19.02	-12 57.9	1.594	2.585	6.0	21.1
8 19	22 9.92	-16 46.2	1.562	2.571	2.2	19.4	8 19	22 9.90	-13 59.9	1.587	2.597	1.6	20.9
8 29	22 0.30	-17 32.1	1.582	2.581	4.3	19.5	8 29	22 0.50	-14 58.9	1.607	2.609	3.6	21.1
9 8	21 51.53	-18 6.6	1.628	2.590	8.4	19.8	9 8	21 51.92	-15 48.7	1.655	2.620	7.9	21.3
9 18	21 44.56	-18 26.7	1.699	2.598	12.3	20.1	9 18	21 45.08	-16 25.4	1.727	2.631	11.8	21.6
9 28	21 40.05	-18 31.3	1.791	2.606	15.5	20.3	9 28	21 40.63	-16 46.9	1.821	2.642	15.1	21.8
<b>400950</b>	2010 <i>VU</i> <sub>115</sub>		8 22.5 280°61	3°9/18.8	18		<b>464808</b>	2004 <i>RJ</i> <sub>101</sub>		8 22.5 12°12	5°5/26.5	17	
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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>324347</b>	2006 QR <sub>18</sub>		8 22.5	3°37'	1°9'/21.6	17	<b>199605</b>	2006 FG <sub>34</sub>		8 22.5	78°93'	0°3'/22.7	17
7 20	22 30.61	-15 18.5	0.960	1.877	18.8	19.7	7 20	22 32.78	-9 38.2	1.742	2.613	14.1	20.1
7 30	22 26.60	-15 13.3	0.910	1.875	13.9	19.5	7 30	22 26.83	-9 51.0	1.691	2.632	10.4	19.9
8 9	22 19.40	-15 15.0	0.877	1.874	8.2	19.2	8 9	22 18.96	-10 13.3	1.662	2.650	6.2	19.7
8 19	22 10.07	-15 17.7	0.865	1.875	2.5	18.8	8 19	22 9.91	-10 41.0	1.659	2.669	1.7	19.4
8 29	22 0.26	-15 14.7	0.875	1.878	5.1	19.0	8 29	22 0.68	-11 9.5	1.683	2.688	2.8	19.6
9 8	21 51.75	-15 1.1	0.906	1.882	10.9	19.3	9 8	21 52.31	-11 34.2	1.734	2.706	7.1	19.9
9 18	21 45.92	-14 34.8	0.957	1.888	16.1	19.7	9 18	21 45.64	-11 51.6	1.811	2.724	10.8	20.1
9 28	21 43.60	-13 55.6	1.025	1.895	20.5	20.0	9 28	21 41.24	-11 59.7	1.910	2.742	14.0	20.4
<b>43230</b>	2000 AX <sub>175</sub>		8 22.5	290°24'	5°4'/27.9	18	<b>405808</b>	2006 BS <sub>57</sub>		8 22.5	52°03'	2°9'/19.6	18
7 20	22 25.94	+ 6 35.7	2.277	3.077	13.6	18.9	7 20	22 27.56	-18 19.3	2.223	3.109	10.9	20.8
7 30	22 21.79	+ 6 43.9	2.179	3.059	11.3	18.7	7 30	22 22.87	-19 8.8	2.163	3.114	7.9	20.6
8 9	22 16.05	+ 6 33.9	2.102	3.041	8.7	18.5	8 9	22 16.59	-20 0.7	2.128	3.119	4.8	20.4
8 19	22 9.17	+ 6 5.5	2.049	3.023	6.3	18.3	8 19	22 9.30	-20 50.1	2.120	3.124	2.9	20.3
8 29	22 1.83	+ 5 20.3	2.023	3.006	5.4	18.3	8 29	22 1.76	-21 31.7	2.140	3.129	4.5	20.4
9 8	21 54.82	+ 4 22.3	2.024	2.988	6.8	18.3	9 8	21 54.79	-22 1.8	2.186	3.134	7.5	20.6
9 18	21 48.87	+ 3 16.8	2.050	2.970	9.4	18.4	9 18	21 49.09	-22 18.2	2.258	3.140	10.4	20.8
9 28	21 44.62	+ 2 9.8	2.101	2.953	12.2	18.6	9 28	21 45.19	-22 20.3	2.352	3.145	12.9	21.0
<b>272649</b>	2005 WD <sub>135</sub>		8 22.5	64°68'	4°9'/18.2	18	<b>468046</b>	2013 QL <sub>95</sub>		8 22.5	3°08'	1°2'/21.7	17
7 20	22 29.76	-19 56.0	1.554	2.454	13.9	20.4	7 20	22 20.74	-9 54.9	0.874	1.799	19.4	19.9
7 30	22 25.03	-21 25.3	1.508	2.464	10.2	20.2	7 30	22 19.46	-10 47.6	0.827	1.796	14.2	19.6
8 9	22 18.07	-22 57.1	1.485	2.475	6.6	20.0	8 9	22 15.25	-12 0.6	0.796	1.795	8.3	19.3
8 19	22 9.68	-24 22.1	1.487	2.485	4.9	20.0	8 19	22 9.03	-13 24.7	0.785	1.796	2.1	18.9
8 29	22 0.99	-25 31.5	1.514	2.496	7.0	20.1	8 29	22 2.27	-14 47.2	0.795	1.800	4.9	19.1
9 8	21 53.17	-26 19.3	1.567	2.507	10.5	20.3	9 8	21 56.62	-15 55.9	0.825	1.805	11.0	19.5
9 18	21 47.21	-26 43.4	1.642	2.517	14.0	20.6	9 18	21 53.37	-16 42.5	0.874	1.813	16.4	19.8
9 28	21 43.78	-26 44.8	1.737	2.528	16.9	20.8	9 28	21 53.36	-17 3.4	0.940	1.822	20.9	20.1
<b>48605</b>	1995 CW <sub>1</sub>		8 22.5	331°08'	14°1'/7.6	18	<b>150120</b>	1993 TS <sub>24</sub>		8 22.5	5°58'	2°5'/24.9	18
7 20	22 24.86	+27 9.9	1.803	2.477	20.7	18.9	7 20	22 24.19	- 1 42.1	1.777	2.635	14.5	19.2
7 30	22 21.55	+28 7.4	1.719	2.468	19.2	18.7	7 30	22 20.72	- 2 12.3	1.707	2.635	11.1	19.0
8 9	22 16.16	+28 31.9	1.650	2.458	17.5	18.6	8 9	22 15.47	- 3 0.5	1.658	2.636	7.4	18.7
8 19	22 9.24	+28 17.9	1.596	2.450	15.8	18.4	8 19	22 9.03	- 4 3.5	1.634	2.638	3.6	18.5
8 29	22 1.71	+27 22.7	1.561	2.441	14.6	18.3	8 29	22 2.24	- 5 15.9	1.637	2.640	3.1	18.5
9 8	21 54.67	+25 48.9	1.546	2.434	14.1	18.3	9 8	21 56.01	- 6 30.7	1.665	2.643	6.6	18.7
9 18	21 49.12	+23 43.4	1.552	2.426	14.6	18.3	9 18	21 51.16	- 7 41.2	1.719	2.647	10.4	19.0
9 28	21 45.90	+21 17.3	1.579	2.420	16.0	18.4	9 28	21 48.32	- 8 42.0	1.796	2.651	13.7	19.2
<b>361564</b>	2007 RP <sub>53</sub>		8 22.5	53°35'	5°1'/25.9	17	<b>305825</b>	2009 DB <sub>127</sub>		8 22.5	298°54'	1°9'/24.1	18
7 20	22 30.86	+ 1 6.7	1.135	2.001	20.4	20.5	7 20	22 27.52	- 4 19.9	1.858	2.718	13.8	20.7
7 30	22 26.20	+ 1 9.6	1.089	2.017	16.0	20.3	7 30	22 23.16	- 4 40.1	1.778	2.710	10.5	20.5
8 9	22 18.91	+ 0 45.8	1.060	2.034	11.1	20.1	8 9	22 16.94	- 5 15.0	1.721	2.703	6.8	20.2
8 19	22 9.92	- 0 2.5	1.053	2.051	6.5	19.9	8 19	22 9.44	- 6 1.9	1.689	2.695	2.9	20.0
8 29	22 0.62	- 1 8.4	1.068	2.068	5.4	19.9	8 29	22 1.48	- 6 56.1	1.684	2.688	2.8	20.0
9 8	21 52.47	- 2 22.3	1.107	2.086	9.0	20.1	9 8	21 54.05	- 7 51.6	1.705	2.681	6.7	20.2
9 18	21 46.59	- 3 34.4	1.168	2.104	13.4	20.4	9 18	21 48.00	- 8 42.9	1.752	2.674	10.6	20.4
9 28	21 43.71	- 4 36.6	1.249	2.122	17.4	20.7	9 28	21 44.01	- 9 25.5	1.822	2.667	14.0	20.6
<b>113967</b>	2002 UO <sub>12</sub>		8 22.5	96°04'	4°3'/25.8	17	<b>223862</b>	2004 TS <sub>285</sub>		8 22.5	285°82'	1°9'/24.3	18
7 20	22 31.00	+ 0 32.8	1.565	2.410	16.7	19.9	7 20	22 28.31	- 4 46.2	2.291	3.140	11.9	20.3
7 30	22 25.87	+ 0 36.6	1.501	2.418	13.1	19.7	7 30	22 23.40	- 4 44.3	2.209	3.134	9.1	20.1
8 9	22 18.57	+ 0 20.3	1.457	2.425	9.1	19.5	8 9	22 16.93	- 4 52.9	2.150	3.128	5.9	19.9
8 19	22 9.84	- 0 14.5	1.436	2.433	5.4	19.3	8 19	22 9.41	- 5 10.4	2.117	3.122	2.8	19.7
8 29	22 0.72	- 1 3.6	1.441	2.440	4.6	19.2	8 29	22 1.55	- 5 33.8	2.113	3.116	2.6	19.7
9 8	21 52.36	- 2 0.4	1.472	2.447	7.7	19.4	9 8	21 54.12	- 5 59.6	2.136	3.110	5.8	19.9
9 18	21 45.75	- 2 58.0	1.528	2.454	11.5	19.7	9 18	21 47.84	- 6 24.4	2.186	3.103	9.0	20.1
9 28	21 41.58	- 3 50.0	1.605	2.461	15.1	19.9	9 28	21 43.29	- 6 44.7	2.260	3.097	11.9	20.2
<b>358829</b>	2008 EW <sub>164</sub>		8 22.5	12°81'	0°1'/22.4	18	<b>360390</b>	2002 CW <sub>317</sub>		8 22.5	322°77'	3°6'/27.7	15
7 20	22 26.60	- 9 8.4	1.876	2.752	13.0	20.8	7 20	22 24.97	+ 5 39.2	4.049	4.826	8.5	19.9
7 30	22 22.40	- 9 45.2	1.810	2.754	9.6	20.6	7 30	22 20.38	+ 6 6.9	3.957	4.821	7.0	19.8
8 9	22 16.41	-10 32.9	1.766	2.756	5.7	20.4	8 9	22 14.91	+ 6 25.5	3.889	4.817	5.4	19.7
8 19	22 9.26	-11 27.0	1.747	2.758	1.5	20.1	8 19	22 8.86	+ 6 34.7	3.848	4.812	4.1	19.6
8 29	22 1.78	-12 22.1	1.756	2.760	2.8	20.2	8 29	22 2.61	+ 6 35.3	3.835	4.808	3.6	19.6
9 8	21 54.89	-13 12.3	1.792	2.763	6.9	20.5	9 8	21 56.58	+ 6 28.7	3.851	4.804	4.4	19.6
9 18	21 49.40	-13 53.4	1.852	2.766	10.6	20.7	9 18	21 51.15	+ 6 16.6	3.896	4.800	5.8	19.7
9 28	21 45.90	-14 22.1	1.936	2.769	13.8	20.9	9 28	21 46.67	+ 6 1.5	3.967	4.796	7.4	19.8
<b>28950</b>	Ailidooner		8 22.5	79°32'	0°3'/22.7	18	<b>236118</b>	2005 SJ <sub>116</sub>		8 22.5	10°32'	0°4'/22.1	18
7 20	22 30.52	-10 8.1	2.106	2.973	12.2	19.1	7 20	22 25.75	-11 40.0	2.380	3.254	10.7	19.6
7 30	22 25.03	-10 13.5	2.039	2.978	9.0	18.9	7 30	22 21.42	-11 55.3	2.313	3.257	7.8	19.4
8 9	22 17.86	-10 26.4	1.996	2.984	5.4	18.7	8 9	22 15.70	-12 16.6	2.270	3.260	4.6	19.2
8 19	22 9.63	-10 43.9	1.980	2.990	1.5	18.5	8 19	22 9.07	-12 41.0	2.253	3.264	1.2	19.0
8 29	22 1.14	-11 2.3	1.991	2.995	2.5	18.6	8 29	22 2.23	-13 4.8	2.265	3.268	2.4	19.1
9 8	21 53.26	-11 18.0	2.030	3.001	6.3	18.8	9 8	21 55.87	-13 24.8	2.304	3.273	5.8	19.3
9 18	21 46.73	-11 28.4	2.096	3.007	9.7	19.0	9 18	21 50.62	-13 38.5	2.369	3.278	8.8	19.6
9 28	21 42.12	-11 31.3	2.185	3.012	12.6	19.2	9 28	21 46.97	-13 43.9	2.458	3.283	11.5	19.7
<b>334692</b>	2003 BY <sub>79</sub>		8 22.5	337°23'	5°3'/21.9	15	<b>373205</b>	2012 DV <sub>90</sub>		8 22.5	47°46'	0°2'/22.4	17
7 20	22 52.88	-25 59.6	0.834	1.738	22.								

EPHEMERIDES

8 22.5

8 22.5

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>187331</b>	2005 <i>UR</i> <sub>85</sub>		8 22.5 127°72	3°3/26.2	18		<b>202999</b>	1999 <i>VE</i> <sub>186</sub>		8 22.5 259°65	8°5/13.9	18	
7 20	22 26.59	+ 1 43.9	2.418	3.240	12.3	21.0	7 20	22 34.62	-34 2.4	2.015	2.892	12.2	20.5
7 30	22 22.02	+ 1 26.3	2.345	3.247	9.7	20.8	7 30	22 28.65	-35 25.8	1.949	2.875	10.1	20.3
8 9	22 16.05	+ 0 53.7	2.294	3.255	6.8	20.7	8 9	22 20.34	-36 40.9	1.908	2.858	8.7	20.2
8 19	22 9.18	+ 0 7.7	2.269	3.262	4.1	20.5	8 19	22 10.39	-37 39.2	1.891	2.840	8.7	20.1
8 29	22 2.06	- 0 48.2	2.272	3.269	3.4	20.5	8 29	21 59.89	-38 13.4	1.900	2.822	10.2	20.2
9 8	21 55.39	- 1 49.4	2.303	3.276	5.5	20.6	9 8	21 50.08	-38 20.2	1.932	2.803	12.5	20.3
9 18	21 49.80	- 2 51.0	2.362	3.282	8.3	20.8	9 18	21 42.04	-38 0.0	1.986	2.785	14.9	20.4
9 28	21 45.79	- 3 48.6	2.446	3.289	11.0	21.0	9 28	21 36.57	-37 16.0	2.058	2.765	17.1	20.6
<b>1586</b>	Thiele		8 22.5 170°22	1°0/21.7	18		<b>260355</b>	2004 <i>TP</i> <sub>324</sub>		8 22.5 290°84	3°8/25.9	18	
7 20	22 31.12	-11 6.3	1.800	2.676	13.5	16.3	7 20	22 27.78	+ 0 45.2	2.253	3.081	12.8	20.3
7 30	22 25.80	-11 55.7	1.733	2.678	9.9	16.1	7 30	22 23.09	+ 0 57.4	2.167	3.073	10.2	20.1
8 9	22 18.49	-12 55.2	1.690	2.681	5.8	15.8	8 9	22 16.81	+ 0 55.5	2.104	3.065	7.3	19.9
8 19	22 9.85	-13 59.3	1.672	2.683	1.5	15.6	8 19	22 9.43	+ 0 40.1	2.066	3.057	4.6	19.7
8 29	22 0.83	-15 1.4	1.682	2.684	3.4	15.7	8 29	22 1.68	+ 0 13.5	2.055	3.050	3.9	19.6
9 8	21 52.47	-15 55.2	1.719	2.685	7.7	16.0	9 8	21 54.33	- 0 20.7	2.071	3.042	6.1	19.8
9 18	21 45.67	-16 36.4	1.782	2.686	11.5	16.2	9 18	21 48.12	- 0 58.2	2.114	3.034	9.1	19.9
9 28	21 41.12	-17 2.6	1.866	2.686	14.8	16.4	9 28	21 43.65	- 1 34.6	2.181	3.027	12.0	20.1
<b>258795</b>	2002 <i>LY</i> <sub>2</sub>		8 22.5 165°07	2°9/24.8	17		<b>4345</b>	Rachmaninoff		8 22.5 204°53	0°3/22.2	18	
7 20	22 32.88	- 2 12.4	1.712	2.559	15.4	21.2	7 20	22 28.01	-10 7.7	2.133	3.003	11.9	17.4
7 30	22 27.15	- 2 20.4	1.642	2.564	11.9	20.9	7 30	22 23.29	-10 44.6	2.060	3.002	8.7	17.2
8 9	22 19.32	- 2 45.2	1.593	2.568	7.9	20.7	8 9	22 16.93	-11 30.7	2.011	3.001	5.1	16.9
8 19	22 10.08	- 3 24.4	1.568	2.571	4.0	20.5	8 19	22 9.46	-12 21.7	1.989	2.999	1.3	16.7
8 29	22 0.42	- 4 13.5	1.571	2.573	3.5	20.5	8 29	22 1.67	-13 12.7	1.995	2.998	2.7	16.8
9 8	21 51.45	- 5 6.4	1.601	2.576	7.2	20.7	9 8	21 54.39	-13 58.7	2.028	2.996	6.5	17.0
9 18	21 44.13	- 5 57.2	1.656	2.577	11.2	20.9	9 18	21 48.36	-14 36.0	2.088	2.995	9.9	17.2
9 28	21 39.17	- 6 40.6	1.734	2.578	14.7	21.2	9 28	21 44.17	-15 2.0	2.170	2.993	12.9	17.4
<b>466920</b>	2015 <i>WK</i> <sub>10</sub>		8 22.5 315°61	2°0/20.4	17		<b>491473</b>	2012 <i>HQ</i> <sub>14</sub>		8 22.5 143°58	13°4/ 4.4	17	
7 20	22 24.59	-12 43.4	1.898	2.785	12.3	20.8	7 20	22 30.96	+22 37.1	1.214	1.961	25.8	22.1
7 30	22 21.16	-13 56.9	1.808	2.761	9.0	20.5	7 30	22 26.61	+22 41.0	1.148	1.969	22.9	21.9
8 9	22 15.87	-15 22.2	1.742	2.736	5.3	20.2	8 9	22 19.40	+21 56.6	1.094	1.976	19.6	21.7
8 19	22 9.20	-16 53.1	1.703	2.712	2.1	20.0	8 19	22 10.18	+20 18.5	1.057	1.982	16.3	21.5
8 29	22 1.96	-18 22.0	1.690	2.688	4.2	20.1	8 29	22 0.33	+17 47.9	1.040	1.988	13.9	21.4
9 8	21 55.11	-19 41.3	1.705	2.664	8.3	20.3	9 8	21 51.42	+14 36.6	1.045	1.993	13.5	21.4
9 18	21 49.53	-20 45.1	1.744	2.641	12.1	20.4	9 18	21 44.80	+11 3.0	1.074	1.998	15.5	21.5
9 28	21 45.99	-21 30.2	1.804	2.619	15.4	20.6	9 28	21 41.39	+ 7 28.7	1.124	2.002	18.6	21.7
<b>167701</b>	2004 <i>TM</i> <sub>13</sub>		8 22.5 16°69	9°5/27.2	18		<b>300796</b>	2007 <i>VR</i> <sub>331</sub>		8 22.5 287°56	2°0/20.7	18	
7 20	22 26.86	+ 1 42.7	0.744	1.642	24.8	18.0	7 20	22 28.32	-14 2.7	1.859	2.744	12.7	21.3
7 30	22 24.10	+ 3 22.6	0.709	1.651	20.2	17.7	7 30	22 23.83	-14 53.9	1.784	2.735	9.2	21.1
8 9	22 18.02	+ 4 30.3	0.688	1.662	15.2	17.5	8 9	22 17.39	-15 53.0	1.732	2.725	5.4	20.8
8 19	22 9.77	+ 5 1.8	0.684	1.675	10.9	17.4	8 19	22 9.61	-16 54.4	1.707	2.716	2.1	20.6
8 29	22 1.12	+ 4 58.4	0.697	1.691	9.5	17.4	8 29	22 1.38	-17 51.6	1.708	2.706	4.1	20.7
9 8	21 53.95	+ 4 28.6	0.730	1.709	12.1	17.6	9 8	21 53.70	-18 38.7	1.736	2.697	8.0	20.9
9 18	21 49.63	+ 3 44.1	0.779	1.729	16.2	17.9	9 18	21 47.45	-19 11.8	1.789	2.687	11.8	21.1
9 28	21 48.95	+ 2 57.0	0.846	1.751	20.3	18.3	9 28	21 43.36	-19 28.9	1.863	2.678	15.0	21.3
<b>392995</b>	2012 <i>XZ</i> <sub>110</sub>		8 22.5 263°12	1°9/24.0	18		<b>61598</b>	2000 <i>QJ</i> <sub>91</sub>		8 22.5 16°75	1°6/23.5	17	
7 20	22 29.75	- 5 8.4	1.866	2.724	13.9	21.4	7 20	22 29.66	- 7 23.7	1.240	2.128	17.5	18.2
7 30	22 24.76	- 5 14.9	1.791	2.722	10.5	21.2	7 30	22 25.31	- 7 18.3	1.185	2.133	13.1	18.0
8 9	22 17.87	- 5 34.5	1.738	2.719	6.7	21.0	8 9	22 18.43	- 7 28.0	1.149	2.138	8.1	17.7
8 19	22 9.70	- 6 4.6	1.711	2.717	2.9	20.7	8 19	22 9.89	- 7 49.3	1.136	2.145	3.0	17.4
8 29	22 1.14	- 6 41.1	1.711	2.715	2.9	20.7	8 29	22 0.95	- 8 16.8	1.147	2.152	3.5	17.5
9 8	21 53.15	- 7 19.1	1.737	2.712	6.7	21.0	9 8	21 53.00	- 8 43.9	1.182	2.161	8.5	17.8
9 18	21 46.60	- 7 53.9	1.790	2.710	10.5	21.2	9 18	21 47.14	- 9 5.4	1.239	2.170	13.2	18.1
9 28	21 42.17	- 8 21.6	1.865	2.707	13.9	21.4	9 28	21 44.13	- 9 17.2	1.316	2.180	17.2	18.4
<b>326136</b>	2012 <i>BG</i> <sub>24</sub>		8 22.5 261°71	0°9/21.4	18		<b>476671</b>	2008 <i>TR</i> <sub>39</sub>		8 22.5 345°54	7°6/18.0	16	
7 20	22 25.89	- 9 30.8	2.365	3.233	11.0	20.6	7 20	22 32.24	-26 35.7	1.249	2.157	15.9	20.3
7 30	22 21.72	-10 51.1	2.277	3.219	8.0	20.4	7 30	22 27.55	-27 21.5	1.192	2.147	12.3	20.1
8 9	22 16.01	-12 23.1	2.214	3.204	4.7	20.2	8 9	22 19.92	-28 1.8	1.155	2.139	8.9	19.9
8 19	22 9.22	-14 1.7	2.180	3.190	1.3	19.9	8 19	22 10.30	-28 27.0	1.140	2.131	7.6	19.8
8 29	22 2.00	-15 40.3	2.175	3.175	3.0	20.0	8 29	22 0.18	-28 28.9	1.149	2.125	9.5	19.9
9 8	21 55.12	-17 12.5	2.199	3.160	6.5	20.2	9 8	21 51.18	-28 3.9	1.179	2.119	13.2	20.1
9 18	21 49.28	-18 32.9	2.250	3.145	9.9	20.4	9 18	21 44.61	-27 13.3	1.230	2.115	17.0	20.3
9 28	21 45.08	-19 38.0	2.325	3.130	12.7	20.6	9 28	21 41.29	-26 1.1	1.299	2.112	20.4	20.5
<b>505755</b>	2015 <i>BB</i> <sub>110</sub>		8 22.5 175°87	0°4/22.2	18		<b>184052</b>	2004 <i>FR</i> <sub>102</sub>		8 22.5 281°10	3°0/20.4	18	
7 20	22 31.14	- 9 35.9	1.626	2.503	14.6	21.4	7 20	22 31.93	-16 7.1	1.499	2.393	14.7	20.5
7 30	22 26.01	-10 19.7	1.559	2.504	10.8	21.1	7 30	22 26.97	-16 53.1	1.424	2.378	10.8	20.2
8 9	22 18.71	-11 15.9	1.514	2.505	6.4	20.9	8 9	22 19.50	-17 46.6	1.370	2.363	6.5	19.9
8 19	22 9.94	-12 19.1	1.495	2.505	1.6	20.6	8 19	22 10.21	-18 40.5	1.341	2.349	3.1	19.7
8 29	22 0.74	-13 22.3	1.502	2.506	3.3	20.7	8 29	22 0.27	-19 26.9	1.338	2.334	5.4	19.8
9 8	21 52.25	-14 18.4	1.536	2.506	8.0	21.0	9 8	21 51.02	-19 59.2	1.359	2.319	9.9	20.0
9 18	21 45.47	-15 2.5	1.594	2.505	12.2	21.2	9 18	21 43.65	-20 13.6	1.404	2.305	14.2	20.3
9 28	21 41.12	-15 31.5	1.674	2.505	15.7	21.5	9 28	21 39.03	-20 9.3	1.468	2.290	18.0	20.5
<b>465870</b>	2010 <i>TX</i> <sub>6</sub>		8 22.5 13°96	1°2/21.9	17		<b>416551</b>	2004 <i>BJ</i> <sub>116</sub>		8 22.5 200°79			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>382334</b>	2013 TZ <sub>31</sub>		8 22.5 300°58	0°7/22.0	18		<b>447115</b>	2004 TJ <sub>252</sub>		8 22.5 335°82	3°1/25.1	17	
7 20	22 30.45	-11 8.8	1.384	2.274	15.9	20.9	7 20	22 24.53	-2 0.8	1.683	2.544	15.0	20.7
7 30	22 26.07	-11 34.4	1.303	2.255	11.8	20.6	7 30	22 21.23	-2 7.7	1.599	2.529	11.7	20.4
8 9	22 19.07	-12 12.5	1.242	2.235	7.0	20.2	8 9	22 15.96	-2 32.3	1.536	2.513	7.9	20.2
8 19	22 10.13	-12 58.2	1.205	2.216	1.8	19.9	8 19	22 9.30	-3 12.8	1.497	2.499	4.2	19.9
8 29	22 0.40	-13 44.2	1.193	2.197	3.9	20.0	8 29	22 2.11	-4 5.0	1.483	2.485	3.6	19.9
9 8	21 51.29	-14 23.4	1.206	2.178	9.3	20.2	9 8	21 55.41	-5 2.8	1.494	2.473	7.1	20.1
9 18	21 44.08	-14 50.0	1.241	2.160	14.3	20.4	9 18	21 50.13	-5 59.6	1.530	2.461	11.2	20.3
9 28	21 39.75	-15 1.0	1.296	2.142	18.5	20.7	9 28	21 47.02	-6 49.4	1.588	2.450	14.9	20.5
<b>99340</b>	2001 XY <sub>27</sub>		8 22.5 214°64	4°2/19.2	18		<b>447860</b>	2007 VN <sub>51</sub>		8 22.5 337°93	24°7/3.6	17	
7 20	22 35.56	-19 55.3	1.713	2.599	13.6	20.2	7 20	22 51.83	-56 46.9	0.919	1.767	25.4	20.5
7 30	22 29.35	-20 53.8	1.643	2.592	10.0	20.0	7 30	22 45.08	-58 54.0	0.899	1.759	24.8	20.4
8 9	22 20.76	-21 55.2	1.596	2.585	6.4	19.8	8 9	22 31.47	-60 14.5	0.892	1.752	24.8	20.4
8 19	22 10.53	-22 51.9	1.575	2.576	4.2	19.6	8 19	22 13.40	-60 30.1	0.897	1.746	25.5	20.4
8 29	21 59.76	-23 36.2	1.582	2.567	6.2	19.7	8 29	21 55.19	-59 31.6	0.915	1.741	26.6	20.5
9 8	21 49.73	-24 2.9	1.614	2.558	10.0	19.9	9 8	21 41.00	-57 24.3	0.944	1.736	28.1	20.6
9 18	21 41.53	-24 9.8	1.670	2.547	13.7	20.1	9 18	21 32.88	-54 22.9	0.984	1.733	29.7	20.8
9 28	21 35.94	-23 57.5	1.747	2.536	16.9	20.3	9 28	21 31.02	-50 44.1	1.034	1.730	31.3	20.9
<b>513859</b>	2013 GD <sub>133</sub>		8 22.5 81°52	1°8/24.3	18		<b>66623</b>	1999 RL <sub>204</sub>		8 22.5 124°52	1°6/23.7	18	
7 20	22 27.76	-4 20.4	2.234	3.084	12.2	21.3	7 20	22 33.89	-6 42.0	1.938	2.793	13.6	19.2
7 30	22 22.96	-4 34.2	2.168	3.094	9.2	21.1	7 30	22 27.63	-6 33.6	1.872	2.802	10.2	19.0
8 9	22 16.65	-4 59.7	2.126	3.105	5.9	21.0	8 9	22 19.51	-6 35.4	1.829	2.811	6.4	18.7
8 19	22 9.39	-5 34.3	2.110	3.115	2.6	20.8	8 19	22 10.19	-6 45.3	1.812	2.819	2.6	18.5
8 29	22 1.91	-6 14.3	2.122	3.125	2.5	20.8	8 29	22 0.59	-7 0.1	1.823	2.827	2.8	18.6
9 8	21 54.95	-6 55.4	2.162	3.136	5.7	21.0	9 8	21 51.69	-7 15.9	1.862	2.835	6.5	18.8
9 18	21 49.20	-7 33.6	2.228	3.146	8.9	21.2	9 18	21 44.31	-7 29.4	1.928	2.843	10.2	19.0
9 28	21 45.17	-8 5.5	2.319	3.156	11.7	21.4	9 28	21 39.09	-7 37.6	2.016	2.850	13.3	19.3
<b>492285</b>	2013 YA <sub>21</sub>		8 22.5 268°71	3°4/25.0	18		<b>303213</b>	2004 JZ <sub>20</sub>		8 22.5 155°35	5°6/28.9	18	
7 20	22 30.49	-1 51.2	1.759	2.607	15.0	21.5	7 20	22 26.92	+ 8 46.2	2.293	3.078	14.0	20.9
7 30	22 25.54	-1 45.7	1.674	2.595	11.7	21.3	7 30	22 22.42	+ 8 39.8	2.213	3.081	11.6	20.8
8 9	22 18.49	-1 56.3	1.610	2.583	8.0	21.1	8 9	22 16.40	+ 8 13.2	2.155	3.085	9.0	20.6
8 19	22 9.94	-2 21.8	1.570	2.570	4.4	20.8	8 19	22 9.38	+ 7 27.0	2.120	3.088	6.6	20.5
8 29	22 0.82	-2 58.8	1.557	2.558	3.8	20.8	8 29	22 2.04	+ 6 23.7	2.112	3.091	5.6	20.4
9 8	21 52.21	-3 42.0	1.570	2.545	7.3	20.9	9 8	21 55.15	+ 5 8.3	2.131	3.094	6.7	20.5
9 18	21 45.09	-4 25.9	1.608	2.532	11.2	21.1	9 18	21 49.39	+ 3 46.7	2.178	3.096	9.0	20.7
9 28	21 40.23	-5 5.1	1.669	2.519	14.9	21.3	9 28	21 45.32	+ 2 25.3	2.249	3.098	11.6	20.8
<b>134920</b>	2000 YU <sub>92</sub>		8 22.5 242°51	2°7/24.3	18		<b>510044</b>	2010 DB <sub>79</sub>		8 22.5 147°37	2°1/24.8	18	
7 20	22 33.30	-4 28.2	1.531	2.392	16.2	20.0	7 20	22 28.38	-1 18.7	2.248	3.084	12.6	21.9
7 30	22 27.80	-4 19.7	1.455	2.387	12.4	19.7	7 30	22 23.45	-2 3.8	2.176	3.093	9.6	21.7
8 9	22 19.90	-4 26.5	1.401	2.381	8.1	19.5	8 9	22 16.99	-3 4.2	2.128	3.101	6.3	21.5
8 19	22 10.32	-4 46.8	1.370	2.375	3.8	19.2	8 19	22 9.54	-4 16.4	2.106	3.109	3.0	21.3
8 29	22 0.17	-5 16.4	1.365	2.369	3.6	19.2	8 29	22 1.80	-5 35.7	2.114	3.117	2.6	21.3
9 8	21 50.70	-5 49.8	1.387	2.362	7.9	19.4	9 8	21 54.56	-6 55.9	2.150	3.124	5.7	21.5
9 18	21 43.05	-6 21.4	1.432	2.356	12.4	19.7	9 18	21 48.51	-8 11.4	2.214	3.130	9.0	21.7
9 28	21 38.04	-6 46.4	1.499	2.349	16.2	19.9	9 28	21 44.20	-9 17.9	2.302	3.136	11.9	21.9
<b>213438</b>	2001 YV <sub>16</sub>		8 22.5 237°46	4°1/26.3	18		<b>149570</b>	2003 YW <sub>51</sub>		8 22.5 187°44	3°8/19.4	18	
7 20	22 29.34	+ 1 54.0	2.346	3.163	12.7	20.3	7 20	22 32.02	-17 35.4	1.589	2.481	14.1	20.0
7 30	22 24.20	+ 2 10.3	2.258	3.156	10.2	20.1	7 30	22 26.80	-18 46.1	1.528	2.481	10.3	19.8
8 9	22 17.47	+ 2 12.5	2.192	3.148	7.4	19.9	8 9	22 19.27	-20 2.3	1.489	2.481	6.3	19.5
8 19	22 9.65	+ 2 0.9	2.152	3.139	4.9	19.8	8 19	22 10.18	-21 16.0	1.476	2.480	3.8	19.4
8 29	22 1.44	+ 1 37.5	2.139	3.131	4.2	19.7	8 29	22 0.63	-22 18.7	1.489	2.479	6.0	19.5
9 8	21 53.62	+ 1 5.5	2.154	3.122	6.2	19.8	9 8	21 51.87	-23 3.8	1.528	2.478	9.9	19.7
9 18	21 46.91	+ 0 29.1	2.196	3.113	9.0	20.0	9 18	21 44.94	-23 28.5	1.591	2.477	13.7	20.0
9 28	21 41.92	-0 7.3	2.263	3.104	11.8	20.1	9 28	21 40.60	-23 32.5	1.673	2.475	17.0	20.2
<b>345039</b>	2005 EB <sub>225</sub>		8 22.5 176°91	8°4/11.3	18		<b>199259</b>	2006 BF <sub>12</sub>		8 22.5 80°41	0°2/22.7	17	
7 20	22 34.08	-38 31.9	2.538	3.398	10.6	21.0	7 20	22 30.16	-8 49.7	1.660	2.536	14.4	20.7
7 30	22 27.88	-40 15.7	2.498	3.400	9.1	21.0	7 30	22 25.26	-9 19.1	1.594	2.537	10.7	20.5
8 9	22 19.72	-41 48.6	2.482	3.402	8.4	20.9	8 9	22 18.28	-10 0.6	1.550	2.539	6.4	20.3
8 19	22 10.24	-43 3.2	2.492	3.403	8.7	20.9	8 19	22 9.91	-10 49.7	1.531	2.541	1.8	20.0
8 29	22 0.37	-43 54.2	2.528	3.404	9.8	21.0	8 29	22 1.14	-11 40.4	1.538	2.543	3.0	20.1
9 8	21 51.13	-44 19.4	2.588	3.404	11.4	21.1	9 8	21 53.08	-12 26.5	1.572	2.544	7.5	20.4
9 18	21 43.39	-44 19.5	2.669	3.403	13.1	21.3	9 18	21 46.66	-13 3.2	1.630	2.546	11.7	20.6
9 28	21 37.83	-43 57.6	2.767	3.402	14.5	21.4	9 28	21 42.58	-13 27.4	1.710	2.548	15.1	20.8
<b>360385</b>	2002 CN <sub>280</sub>		8 22.5 177°34	0°6/23.1	18		<b>146752</b>	2001 XU <sub>143</sub>		8 22.5 340°64	0°5/22.9	18	
7 20	22 27.53	-7 28.5	2.641	3.495	10.4	22.1	7 20	22 27.51	-8 27.3	1.735	2.612	13.9	19.9
7 30	22 22.65	-7 57.6	2.565	3.496	7.7	21.9	7 30	22 23.30	-8 46.7	1.662	2.606	10.3	19.6
8 9	22 16.44	-8 35.5	2.513	3.498	4.7	21.7	8 9	22 17.12	-9 17.9	1.611	2.600	6.3	19.4
8 19	22 9.36	-9 19.2	2.489	3.498	1.5	21.5	8 19	22 9.61	-9 57.1	1.585	2.595	1.9	19.1
8 29	22 2.02	-10 5.0	2.494	3.499	2.0	21.5	8 29	22 1.67	-10 39.3	1.585	2.590	2.8	19.2
9 8	21 55.08	-10 49.1	2.528	3.499	5.2	21.8	9 8	21 54.33	-11 18.7	1.611	2.585	7.2	19.4
9 18	21 49.14	-11 28.0	2.590	3.498	8.2	22.0	9 18	21 48.48	-11 50.9	1.662	2.582	11.2	19.7
9 28	21 44.70	-11 59.3	2.676	3.497	10.8	22.1	9 28	21 44.81	-12 12.4	1.735	2.578	14.7	19.9
<b>251912</b>	1999 VV <sub>147</sub>		8 22.5 281°97	3°2/25.6	18		<b>198346</b>	2004 VL <sub>3</sub>		8 22.5 14°29	4°3/25.9	17	
7 20	22 27.05	-0 7.9	2.285	3.118	12.5	20.9	7						

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>220937</b>	2005 <i>JA</i> <sub>76</sub>		8 22.5 24°51'	0.6/22.9	17		<b>175669</b>	1994 <i>LT</i> <sub>3</sub>		8 22.5 90°58'	2.3/20.8	18	
7 20	22 28.91	- 8 35.6	1.061	1.962	18.7	19.9	7 20	22 32.73	-14 31.2	1.467	2.357	15.1	20.1
7 30	22 25.03	- 8 51.2	1.015	1.971	13.9	19.7	7 30	22 27.31	-15 19.9	1.413	2.366	11.0	19.9
8 9	22 18.38	- 9 23.3	0.988	1.981	8.4	19.4	8 9	22 19.55	-16 16.2	1.382	2.375	6.4	19.7
8 19	22 9.95	-10 6.2	0.982	1.992	2.4	19.1	8 19	22 10.27	-17 13.1	1.376	2.385	2.5	19.5
8 29	22 1.18	-10 51.8	0.999	2.005	3.7	19.3	8 29	22 0.66	-18 2.7	1.395	2.394	4.7	19.6
9 8	21 53.58	-11 32.1	1.039	2.019	9.3	19.6	9 8	21 52.00	-18 39.0	1.440	2.403	9.2	19.9
9 18	21 48.32	-12 0.9	1.100	2.033	14.3	20.0	9 18	21 45.31	-18 58.8	1.508	2.412	13.3	20.2
9 28	21 46.13	-12 14.8	1.180	2.048	18.5	20.3	9 28	21 41.29	-19 1.3	1.597	2.420	16.7	20.4
<b>17208</b>	Pokrovskaja		8 22.5 339°29'	2.9/24.8	18		<b>433790</b>	2015 <i>BM</i> <sub>87</sub>		8 22.5 126°59'	0.3/22.3	17	
7 20	22 29.48	- 2 52.0	1.787	2.640	14.6	18.6	7 20	22 33.75	-10 34.0	1.757	2.629	14.0	21.8
7 30	22 24.67	- 2 48.5	1.713	2.638	11.3	18.4	7 30	22 27.70	-10 59.2	1.698	2.640	10.3	21.6
8 9	22 17.90	- 3 0.0	1.661	2.636	7.5	18.1	8 9	22 19.64	-11 33.6	1.662	2.651	6.0	21.4
8 19	22 9.82	- 3 24.6	1.633	2.635	3.9	17.9	8 19	22 10.28	-12 12.7	1.651	2.662	1.5	21.1
8 29	22 1.32	- 3 58.8	1.631	2.633	3.5	17.9	8 29	22 0.65	-12 50.9	1.668	2.672	3.1	21.3
9 8	21 53.42	- 4 37.5	1.656	2.632	6.9	18.1	9 8	21 51.81	-13 23.4	1.713	2.682	7.4	21.5
9 18	21 47.00	- 5 15.5	1.707	2.631	10.7	18.3	9 18	21 44.66	-13 46.4	1.782	2.691	11.2	21.8
9 28	21 42.74	- 5 48.2	1.780	2.630	14.1	18.6	9 28	21 39.84	-13 58.0	1.874	2.700	14.5	22.0
<b>218520</b>	2004 <i>TF</i> <sub>243</sub>		8 22.5 353°72'	6.6/15.4	18		<b>483293</b>	2015 <i>TW</i> <sub>348</sub>		8 22.5 242°06'	0.1/22.4	17	
7 20	22 22.95	-22 17.6	1.523	2.435	13.4	18.7	7 20	22 26.38	- 9 36.6	2.643	3.506	10.1	21.7
7 30	22 20.34	-24 28.8	1.468	2.428	10.0	18.5	7 30	22 21.91	-10 13.4	2.558	3.496	7.5	21.5
8 9	22 15.55	-26 43.3	1.436	2.422	7.3	18.3	8 9	22 16.09	-10 58.2	2.498	3.486	4.4	21.3
8 19	22 9.23	-28 49.4	1.430	2.418	6.8	18.3	8 19	22 9.35	-11 47.7	2.466	3.476	1.1	21.0
8 29	22 2.41	-30 35.7	1.449	2.414	9.1	18.4	8 29	22 2.29	-12 38.1	2.463	3.466	2.2	21.1
9 8	21 56.25	-31 54.3	1.492	2.412	12.4	18.6	9 8	21 55.58	-13 25.1	2.488	3.456	5.5	21.3
9 18	21 51.80	-32 41.9	1.555	2.411	15.6	18.8	9 18	21 49.82	-14 5.4	2.541	3.445	8.5	21.5
9 28	21 49.80	-32 59.2	1.637	2.411	18.4	19.0	9 28	21 45.55	-14 36.6	2.618	3.434	11.1	21.7
<b>183199</b>	2002 <i>TS</i> <sub>13</sub>		8 22.5 273°93'	2.3/20.8	18		<b>99664</b>	2002 <i>HK</i> <sub>16</sub>		8 22.5 310°91'	2.9/20.4	18	
7 20	22 31.40	-14 21.2	1.585	2.474	14.3	20.3	7 20	22 30.13	-16 21.1	1.540	2.435	14.3	19.4
7 30	22 26.54	-15 10.8	1.504	2.456	10.5	20.0	7 30	22 25.59	-17 3.1	1.467	2.422	10.5	19.1
8 9	22 19.27	-16 9.9	1.445	2.438	6.2	19.7	8 9	22 18.67	-17 51.6	1.416	2.409	6.3	18.8
8 19	22 10.24	-17 12.1	1.411	2.420	2.5	19.4	8 19	22 10.09	-18 40.2	1.389	2.396	3.0	18.6
8 29	22 0.52	-18 9.4	1.403	2.401	4.8	19.5	8 29	22 0.93	-19 21.4	1.388	2.384	5.2	18.7
9 8	21 51.38	-18 54.9	1.421	2.383	9.4	19.8	9 8	21 52.46	-19 49.3	1.411	2.372	9.5	19.0
9 18	21 43.97	-19 23.8	1.463	2.364	13.7	20.0	9 18	21 45.77	-20 0.3	1.458	2.360	13.7	19.2
9 28	21 39.17	-19 34.3	1.524	2.345	17.5	20.2	9 28	21 41.69	-19 53.6	1.525	2.349	17.3	19.4
<b>322150</b>	2010 <i>WY</i> <sub>32</sub>		8 22.5 314°22'	2.4/24.7	17		<b>64853</b>	2001 <i>YO</i> <sub>22</sub>		8 22.5 48°90'	0.7/22.1	18	
7 20	22 26.55	- 3 8.5	1.967	2.821	13.4	21.1	7 20	22 32.65	-10 52.6	1.160	2.056	17.9	18.6
7 30	22 22.47	- 3 16.3	1.880	2.806	10.4	20.9	7 30	22 27.67	-11 20.2	1.111	2.065	13.1	18.4
8 9	22 16.61	- 3 38.4	1.814	2.792	6.9	20.6	8 9	22 19.94	-12 0.8	1.081	2.074	7.7	18.1
8 19	22 9.50	- 4 13.0	1.774	2.777	3.4	20.4	8 19	22 10.40	-12 48.0	1.073	2.084	2.0	17.8
8 29	22 1.91	- 4 56.5	1.760	2.763	3.0	20.3	8 29	22 0.50	-13 33.5	1.090	2.094	4.1	18.0
9 8	21 54.75	- 5 43.7	1.773	2.749	6.5	20.5	9 8	21 51.75	-14 9.8	1.130	2.104	9.6	18.3
9 18	21 48.85	- 6 29.6	1.812	2.736	10.2	20.7	9 18	21 45.34	-14 32.2	1.192	2.115	14.4	18.6
9 28	21 44.89	- 7 9.5	1.873	2.723	13.5	20.9	9 28	21 42.04	-14 38.5	1.274	2.126	18.4	18.9
<b>93259</b>	2000 <i>SD</i> <sub>166</sub>		8 22.5 32°22'	0.9/22.0	17		<b>462110</b>	2007 <i>RA</i> <sub>38</sub>		8 22.5 356°71'	7.0/19.4	18	
7 20	22 34.83	-13 53.5	1.399	2.287	15.8	19.2	7 20	22 33.23	-23 57.7	0.937	1.859	18.7	19.5
7 30	22 28.90	-13 48.0	1.343	2.294	11.6	19.0	7 30	22 28.87	-24 27.6	0.889	1.854	14.1	19.2
8 9	22 20.48	-13 48.6	1.309	2.302	6.8	18.7	8 9	22 20.98	-24 53.6	0.858	1.850	9.6	18.9
8 19	22 10.50	-13 51.1	1.299	2.310	1.8	18.4	8 19	22 10.72	-25 5.1	0.847	1.848	7.0	18.8
8 29	22 0.22	-13 50.8	1.315	2.318	3.8	18.6	8 29	21 59.94	-24 53.3	0.858	1.847	9.3	18.9
9 8	21 50.98	-13 43.9	1.355	2.327	8.6	18.9	9 8	21 50.66	-24 14.9	0.888	1.847	13.8	19.2
9 18	21 43.86	-13 28.4	1.420	2.336	13.0	19.2	9 18	21 44.35	-23 11.9	0.938	1.849	18.5	19.4
9 28	21 39.56	-13 3.5	1.505	2.346	16.7	19.4	9 28	21 41.86	-21 49.4	1.004	1.853	22.5	19.7
<b>14590</b>	1998 <i>RL</i> <sub>80</sub>		8 22.5 184°78'	3.5/20.2	18		<b>25163</b>	Williamcdonald		8 22.5 134°85'	3.9/18.6	18	R
7 20	22 33.99	-16 26.7	1.310	2.208	16.1	17.9	7 20	22 30.11	-22 47.8	2.353	3.236	10.4	18.8
7 30	22 28.62	-17 21.1	1.252	2.208	11.8	17.6	7 30	22 24.75	-23 30.7	2.292	3.238	7.7	18.6
8 9	22 20.52	-18 22.7	1.214	2.208	7.1	17.4	8 9	22 17.78	-24 12.5	2.256	3.240	5.2	18.4
8 19	22 10.55	-19 23.0	1.201	2.208	3.5	17.2	8 19	22 9.80	-24 48.3	2.247	3.242	3.9	18.4
8 29	22 0.08	-20 12.8	1.212	2.208	5.9	17.3	8 29	22 1.58	-25 13.4	2.266	3.244	5.3	18.5
9 8	21 50.60	-20 45.2	1.248	2.207	10.6	17.6	9 8	21 53.93	-25 25.0	2.312	3.246	7.9	18.6
9 18	21 43.34	-20 57.3	1.305	2.207	15.0	17.8	9 18	21 47.58	-25 22.0	2.384	3.248	10.6	18.8
9 28	21 39.14	-20 49.0	1.382	2.206	18.8	18.1	9 28	21 43.07	-25 4.8	2.477	3.250	12.9	19.0
<b>201543</b>	2003 <i>QU</i> <sub>100</sub>		8 22.5 13°42'	3.3/25.6	18		<b>248528</b>	2005 <i>WY</i> <sub>121</sub>		8 22.5 121°96'	8.5/10.7	18	
7 20	22 26.14	+ 0 29.5	1.576	2.429	16.2	19.8	7 20	22 33.66	-42 37.4	2.805	3.649	10.1	20.6
7 30	22 22.41	- 0 5.6	1.507	2.430	12.7	19.6	7 30	22 27.40	-44 5.8	2.782	3.665	9.0	20.5
8 9	22 16.65	- 1 3.3	1.458	2.432	8.6	19.3	8 9	22 19.36	-45 20.7	2.783	3.680	8.5	20.5
8 19	22 9.51	- 2 20.2	1.433	2.434	4.6	19.1	8 19	22 10.22	-46 16.5	2.809	3.694	8.7	20.6
8 29	22 1.94	- 3 50.1	1.433	2.436	3.7	19.1	8 29	22 0.85	-46 49.3	2.860	3.709	9.6	20.7
9 8	21 55.02	- 5 24.1	1.460	2.439	7.3	19.3	9 8	21 52.18	-46 58.1	2.934	3.722	10.9	20.8
9 18	21 49.67	- 6 53.7	1.511	2.442	11.4	19.5	9 18	21 45.00	-46 44.3	3.028	3.736	12.2	20.9
9 28	21 46.61	- 8 11.7	1.585	2.445	15.0	19.8	9 28	21 39.88	-46 11.0	3.140	3.749	13.3	21.0
<b>407949</b>	2012 <i>DJ</i> <sub>5</sub>		8 22.5 161°35'	1.0/21.7	18		<b>202501</b>	2006 <i>BS</i> <sub>145</sub>		8 22.5 83°00'</			

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8 22.5

8 22.6

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>408322</b>	2013 <i>GR</i> <sub>52</sub>		8 22.5 129°59	4°1/18.1	18		<b>355161</b>	2006 <i>VS</i> <sub>97</sub>		8 22.6 205°26	1°2/23.7	18	
7 20	22 30.38	-24 19.5	2.580	3.460	9.8	21.5	7 20	22 29.22	-6 27.7	2.279	3.133	11.8	21.2
7 30	22 24.79	-25 8.3	2.527	3.470	7.3	21.3	7 30	22 24.14	-6 39.8	2.201	3.131	8.9	21.0
8 9	22 17.74	-25 54.8	2.499	3.480	5.0	21.2	8 9	22 17.48	-7 1.9	2.146	3.128	5.6	20.8
8 19	22 9.79	-26 34.3	2.499	3.489	4.1	21.2	8 19	22 9.77	-7 31.6	2.118	3.125	2.1	20.6
8 29	22 1.65	-27 2.6	2.527	3.498	5.4	21.3	8 29	22 1.73	-8 5.3	2.118	3.123	2.3	20.6
9 8	21 54.08	-27 17.0	2.583	3.507	7.7	21.4	9 8	21 54.16	-8 39.0	2.147	3.119	5.8	20.8
9 18	21 47.72	-27 16.9	2.664	3.515	10.0	21.6	9 18	21 47.76	-9 9.1	2.202	3.116	9.1	21.0
9 28	21 43.09	-27 2.7	2.767	3.523	12.1	21.8	9 28	21 43.11	-9 32.6	2.281	3.113	12.0	21.2
<b>231761</b>	1999 <i>UE</i> <sub>21</sub>		8 22.5 48°27	2°4/20.6	18		<b>15212</b>	Yaroslavl'		8 22.6 268°81	4°7/17.9	18	
7 20	22 30.45	-15 24.7	1.666	2.556	13.7	20.4	7 20	22 29.58	-21 55.7	1.998	2.888	11.7	17.6
7 30	22 25.49	-16 11.1	1.606	2.559	9.9	20.2	7 30	22 24.80	-23 9.0	1.925	2.875	8.7	17.4
8 9	22 18.44	-17 3.7	1.570	2.562	5.9	20.0	8 9	22 18.06	-24 24.2	1.876	2.862	5.9	17.2
8 19	22 10.02	-17 56.3	1.558	2.566	2.5	19.8	8 19	22 9.95	-25 34.1	1.854	2.848	4.7	17.1
8 29	22 1.24	-18 42.0	1.573	2.570	4.6	19.9	8 29	22 1.36	-26 31.6	1.859	2.834	6.5	17.2
9 8	21 53.23	-19 15.5	1.613	2.574	8.6	20.2	9 8	21 53.29	-27 11.6	1.889	2.821	9.6	17.4
9 18	21 46.91	-19 33.7	1.678	2.578	12.4	20.4	9 18	21 46.66	-27 31.6	1.944	2.807	12.7	17.5
9 28	21 42.97	-19 35.8	1.764	2.582	15.6	20.6	9 28	21 42.17	-27 31.6	2.019	2.793	15.4	17.7
<b>74845</b>	1999 <i>TP</i> <sub>40</sub>		8 22.6 328°51	4°8/19.5	18		<b>93182</b>	2000 <i>SB</i> <sub>105</sub>		8 22.6 79°72	0°2/22.4	18	
7 20	22 31.14	-19 20.3	1.205	2.114	16.4	18.8	7 20	22 30.34	-8 59.9	1.630	2.507	14.6	18.7
7 30	22 26.86	-20 10.8	1.142	2.103	12.1	18.5	7 30	22 25.33	-9 44.1	1.576	2.521	10.7	18.5
8 9	22 19.66	-21 6.0	1.099	2.093	7.6	18.3	8 9	22 18.30	-10 40.4	1.545	2.535	6.3	18.3
8 19	22 10.41	-21 56.5	1.079	2.083	4.8	18.1	8 19	22 9.98	-11 43.2	1.538	2.549	1.6	18.0
8 29	22 0.50	-22 33.0	1.082	2.074	7.2	18.2	8 29	22 1.40	-12 45.7	1.559	2.563	3.1	18.1
9 8	21 51.55	-22 48.5	1.108	2.066	11.9	18.4	9 8	21 53.62	-13 41.3	1.606	2.577	7.6	18.4
9 18	21 44.91	-22 40.8	1.155	2.059	16.4	18.7	9 18	21 47.54	-14 25.1	1.677	2.590	11.5	18.7
9 28	21 41.49	-22 10.9	1.220	2.052	20.3	18.9	9 28	21 43.77	-14 54.5	1.771	2.604	14.9	18.9
<b>172129</b>	2002 <i>HR</i> <sub>16</sub>		8 22.6 172°59	3°1/24.9	17		<b>408612</b>	2014 <i>FE</i> <sub>30</sub>		8 22.6 255°75	5°1/28.3	18	
7 20	22 33.14	-1 55.7	1.672	2.519	15.7	21.0	7 20	22 27.81	+8 47.7	2.082	2.872	15.0	21.6
7 30	22 27.48	-2 0.4	1.600	2.522	12.2	20.8	7 30	22 23.44	+7 58.7	1.978	2.854	12.4	21.4
8 9	22 19.66	-2 22.3	1.550	2.524	8.1	20.5	8 9	22 17.25	+6 43.1	1.895	2.835	9.4	21.2
8 19	22 10.36	-2 59.3	1.524	2.526	4.2	20.3	8 19	22 9.75	+5 1.9	1.836	2.815	6.5	21.0
8 29	22 0.61	-3 47.1	1.525	2.527	3.7	20.3	8 29	22 1.69	+2 59.2	1.806	2.795	5.1	20.8
9 8	21 51.54	-4 39.4	1.552	2.527	7.4	20.5	9 8	21 53.95	+0 43.0	1.804	2.775	6.9	20.9
9 18	21 44.15	-5 30.0	1.605	2.527	11.4	20.7	9 18	21 47.40	-1 37.3	1.831	2.754	10.1	21.1
9 28	21 39.17	-6 13.8	1.681	2.527	15.0	21.0	9 28	21 42.75	-3 52.0	1.883	2.733	13.4	21.2
<b>50572</b>	2000 <i>EM</i> <sub>39</sub>		8 22.6 198°77	1°7/21.0	18		<b>20169</b>	1996 <i>VG</i> <sub>11</sub>		8 22.6 156°56	0°7/22.0	18	
7 20	22 30.63	-14 46.9	2.024	2.903	12.1	18.4	7 20	22 35.78	-12 2.4	1.737	2.608	14.1	18.9
7 30	22 25.35	-15 21.6	1.955	2.902	8.8	18.2	7 30	22 29.30	-12 23.4	1.672	2.615	10.3	18.7
8 9	22 18.25	-16 1.7	1.910	2.901	5.2	17.9	8 9	22 20.66	-12 52.3	1.631	2.621	6.1	18.4
8 19	22 9.96	-16 42.5	1.891	2.900	1.9	17.7	8 19	22 10.63	-13 24.5	1.616	2.626	1.6	18.1
8 29	22 1.34	-17 18.8	1.900	2.898	3.7	17.9	8 29	22 0.24	-13 54.6	1.628	2.631	3.3	18.3
9 8	21 53.30	-17 46.3	1.936	2.897	7.4	18.1	9 8	21 50.66	-14 17.8	1.668	2.635	7.7	18.6
9 18	21 46.67	-18 2.2	1.998	2.895	10.8	18.3	9 18	21 42.84	-14 31.2	1.733	2.639	11.7	18.8
9 28	21 42.07	-18 5.3	2.082	2.893	13.8	18.5	9 28	21 37.47	-14 33.1	1.820	2.642	15.0	19.0
<b>318592</b>	2005 <i>HB</i> <sub>3</sub>		8 22.6 149°35	1°2/23.6	17		<b>358912</b>	2008 <i>GR</i> <sub>122</sub>		8 22.6 358°00	6°2/16.9	18	
7 20	22 31.32	-5 4.2	1.656	2.518	15.1	21.3	7 20	22 31.31	-28 4.2	1.999	2.887	11.8	20.5
7 30	22 26.13	-5 45.0	1.590	2.524	11.4	21.1	7 30	22 25.96	-29 1.0	1.944	2.886	9.1	20.4
8 9	22 18.83	-6 42.2	1.546	2.530	7.1	20.9	8 9	22 18.66	-29 52.6	1.912	2.886	6.9	20.2
8 19	22 10.13	-7 51.1	1.527	2.535	2.5	20.6	8 19	22 10.09	-30 32.4	1.906	2.885	6.3	20.2
8 29	22 1.04	-9 5.0	1.535	2.540	2.9	20.7	8 29	22 1.24	-30 54.8	1.927	2.885	7.7	20.3
9 8	21 52.66	-10 16.3	1.571	2.545	7.4	20.9	9 8	21 53.12	-30 56.7	1.972	2.885	10.2	20.4
9 18	21 45.94	-11 18.9	1.631	2.549	11.5	21.2	9 18	21 46.61	-30 38.4	2.040	2.886	12.9	20.6
9 28	21 41.58	-12 8.2	1.714	2.552	15.1	21.4	9 28	21 42.33	-30 1.6	2.129	2.886	15.2	20.8
<b>319175</b>	2005 <i>YE</i> <sub>115</sub>		8 22.6 171°74	2°0/20.3	18		<b>307015</b>	2001 <i>XZ</i> <sub>65</sub>		8 22.6 191°14	7°8/29.5	18	
7 20	22 27.82	-16 26.9	2.683	3.559	9.6	21.5	7 20	22 32.44	+11 39.1	2.161	2.922	15.4	20.4
7 30	22 22.91	-17 10.8	2.615	3.561	6.9	21.4	7 30	22 26.69	+12 23.2	2.077	2.921	13.2	20.3
8 9	22 16.65	-17 58.0	2.572	3.563	4.1	21.2	8 9	22 19.10	+12 47.0	2.013	2.919	10.8	20.1
8 19	22 9.52	-18 44.3	2.558	3.564	2.0	21.0	8 19	22 10.24	+12 48.4	1.973	2.917	8.7	20.0
8 29	22 2.15	-19 25.8	2.572	3.565	3.4	21.1	8 29	22 0.91	+12 27.7	1.958	2.914	7.8	19.9
9 8	21 55.21	-19 58.9	2.614	3.566	6.2	21.3	9 8	21 52.02	+11 47.9	1.969	2.911	8.6	20.0
9 18	21 49.31	-20 21.4	2.684	3.567	8.9	21.5	9 18	21 44.42	+10 54.4	2.006	2.907	10.6	20.1
9 28	21 44.93	-20 32.3	2.776	3.567	11.2	21.7	9 28	21 38.79	+9 53.6	2.067	2.903	12.9	20.3
<b>151490</b>	2002 <i>JL</i> <sub>45</sub>		8 22.6 116°28	2°4/20.1	18		<b>213547</b>	2002 <i>JR</i> <sub>98</sub>		8 22.6 44°06	2°5/21.1	17	
7 20	22 29.43	-17 54.4	2.384	3.264	10.5	20.5	7 20	22 32.75	-14 38.8	1.148	2.052	17.4	19.8
7 30	22 24.18	-18 33.1	2.324	3.272	7.6	20.4	7 30	22 27.73	-15 16.5	1.106	2.065	12.7	19.5
8 9	22 17.43	-19 13.8	2.290	3.279	4.6	20.2	8 9	22 19.95	-16 2.4	1.083	2.078	7.4	19.3
8 19	22 9.73	-19 52.4	2.282	3.287	2.5	20.0	8 19	22 10.45	-16 48.6	1.083	2.092	2.8	19.1
8 29	22 1.82	-20 24.2	2.303	3.295	4.0	20.2	8 29	22 0.68	-17 26.7	1.106	2.107	5.2	19.3
9 8	21 54.47	-20 46.2	2.351	3.302	6.9	20.4	9 8	21 52.17	-17 50.2	1.153	2.122	10.2	19.6
9 18	21 48.33	-20 56.4	2.426	3.309	9.7	20.6	9 18	21 46.05	-17 56.5	1.222	2.137	14.8	19.9
9 28	21 43.94	-20 54.3	2.523	3.316	12.2	20.7	9 28	21 43.02	-17 45.2	1.309	2.153	18.5	20.2
<b>476640</b>	2008 <i>SX</i> <sub>253</sub>		8 22.6 331°13	2°4/24.6	17		<b>202903</b>	1995 <i>SD</i> <sub>52</sub>		8 22.6 281°70	1°1/21.7	18	

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>253710</b>	2003 <i>UD</i> <sub>360</sub>		8 22.6 223°55	1.2°/23.5	18		<b>454962</b>	2015 <i>TM</i> <sub>200</sub>		8 22.6 285°29	7.2°/30.4	18	
7 20	22 32.59	− 6 23.1	1.779	2.640	14.3	21.8	7 20	22 26.24	+13 4.3	2.403	3.158	14.2	21.1
7 30	22 27.11	− 6 45.4	1.697	2.631	10.8	21.5	7 30	22 22.14	+13 17.6	2.295	3.133	12.3	20.9
8 9	22 19.49	− 7 21.4	1.638	2.622	6.7	21.3	8 9	22 16.44	+13 10.0	2.206	3.108	10.1	20.7
8 19	22 10.36	− 8 7.8	1.604	2.612	2.4	21.0	8 19	22 9.58	+12 40.0	2.140	3.083	8.2	20.6
8 29	22 0.69	− 8 59.4	1.597	2.602	2.9	21.0	8 29	22 2.19	+11 48.2	2.100	3.058	7.2	20.5
9 8	21 51.57	− 9 50.0	1.618	2.591	7.3	21.2	9 8	21 55.06	+10 37.8	2.085	3.032	7.8	20.5
9 18	21 43.98	−10 34.4	1.664	2.579	11.5	21.5	9 18	21 48.92	+ 9 14.3	2.097	3.007	9.7	20.5
9 28	21 38.72	−11 8.3	1.732	2.567	15.1	21.7	9 28	21 44.42	+ 7 44.4	2.133	2.981	12.2	20.6
<b>480923</b>	2002 <i>XH</i> <sub>49</sub>		8 22.6 275°79	5.0°/17.5	17		<b>395748</b>	2012 <i>UR</i> <sub>169</sub>		8 22.6 268°38	6.9°/14.6	18	
7 20	22 30.55	−23 25.0	2.074	2.962	11.4	21.5	7 20	22 30.89	−27 59.5	2.070	2.958	11.5	20.8
7 30	22 25.56	−24 36.7	1.992	2.940	8.6	21.3	7 30	22 25.96	−29 46.8	1.995	2.935	9.1	20.6
8 9	22 18.57	−25 49.6	1.934	2.917	6.0	21.1	8 9	22 18.90	−31 32.9	1.944	2.913	7.2	20.5
8 19	22 10.13	−26 56.5	1.903	2.893	5.1	21.0	8 19	22 10.26	−33 9.0	1.920	2.889	7.1	20.4
8 29	22 1.11	−27 50.5	1.899	2.870	6.8	21.1	8 29	22 0.96	−34 26.5	1.923	2.866	8.9	20.5
9 8	21 52.54	−28 26.3	1.921	2.846	9.8	21.2	9 8	21 52.08	−35 19.9	1.951	2.841	11.5	20.6
9 18	21 45.36	−28 41.7	1.966	2.821	12.9	21.4	9 18	21 44.64	−35 47.0	2.002	2.817	14.2	20.8
9 28	21 40.32	−28 36.8	2.033	2.797	15.6	21.5	9 28	21 39.47	−35 48.9	2.071	2.792	16.6	20.9
<b>10863</b>	Oye		8 22.6 326°85	4.4°/27.1	18		<b>80513</b>	2000 <i>AS</i> <sub>57</sub>		8 22.6 248°78	1.2°/23.4	18	
7 20	22 25.25	+ 4 9.4	1.955	2.779	14.7	18.2	7 20	22 33.38	− 7 35.0	1.623	2.491	15.1	18.9
7 30	22 21.51	+ 3 46.2	1.873	2.774	11.8	18.0	7 30	22 27.84	− 7 37.3	1.545	2.483	11.4	18.6
8 9	22 16.06	+ 3 1.9	1.812	2.770	8.6	17.8	8 9	22 20.00	− 7 51.8	1.489	2.475	7.1	18.4
8 19	22 9.44	+ 1 57.9	1.776	2.765	5.5	17.6	8 19	22 10.54	− 8 15.6	1.458	2.467	2.5	18.1
8 29	22 2.41	+ 0 38.5	1.765	2.761	4.4	17.5	8 29	22 0.52	− 8 44.1	1.453	2.458	3.0	18.1
9 8	21 55.85	− 0 49.8	1.782	2.756	6.6	17.7	9 8	21 51.15	− 9 12.1	1.475	2.449	7.7	18.3
9 18	21 50.53	− 2 19.7	1.825	2.753	9.9	17.8	9 18	21 43.50	− 9 35.0	1.521	2.441	12.1	18.6
9 28	21 47.11	− 3 44.2	1.891	2.749	13.0	18.0	9 28	21 38.37	− 9 49.1	1.589	2.432	15.9	18.8
<b>41505</b>	2000 <i>QP</i> <sub>150</sub>		8 22.6 302°64	2.1°/23.9	18		<b>238658</b>	2005 <i>EP</i> <sub>109</sub>		8 22.6 179°24	0.1°/22.6	18	
7 20	22 31.09	− 6 9.0	1.553	2.423	15.6	18.4	7 20	22 28.55	− 8 16.8	1.919	2.788	13.1	20.3
7 30	22 26.49	− 6 1.5	1.456	2.393	12.0	18.1	7 30	22 23.92	− 9 1.2	1.848	2.789	9.7	20.1
8 9	22 19.41	− 6 7.6	1.379	2.364	7.7	17.8	8 9	22 17.49	− 9 57.5	1.801	2.789	5.8	19.9
8 19	22 10.43	− 6 25.8	1.327	2.334	3.3	17.5	8 19	22 9.84	−11 1.2	1.779	2.789	1.6	19.6
8 29	22 0.54	− 6 52.2	1.300	2.305	3.4	17.4	8 29	22 1.82	−12 6.4	1.785	2.789	2.7	19.7
9 8	21 51.04	− 7 21.5	1.298	2.275	8.2	17.6	9 8	21 54.36	−13 6.9	1.818	2.789	6.9	19.9
9 18	21 43.15	− 7 48.3	1.321	2.246	13.1	17.8	9 18	21 48.29	−13 57.8	1.877	2.789	10.6	20.2
9 28	21 37.89	− 8 7.7	1.364	2.217	17.4	18.0	9 28	21 44.23	−14 35.9	1.959	2.788	13.8	20.4
<b>267265</b>	2001 <i>QN</i> <sub>255</sub>		8 22.6 318°04	2.8°/20.9	18		<b>199572</b>	2006 <i>EN</i> <sub>65</sub>		8 22.6 136°37	1.8°/24.2	17	
7 20	22 33.11	−16 50.0	1.365	2.262	15.6	19.7	7 20	22 29.75	− 4 13.8	1.902	2.757	13.8	20.8
7 30	22 28.05	−17 9.3	1.294	2.250	11.5	19.4	7 30	22 24.77	− 4 36.8	1.833	2.762	10.5	20.6
8 9	22 20.29	−17 33.5	1.245	2.238	6.9	19.1	8 9	22 17.97	− 5 14.0	1.787	2.767	6.7	20.4
8 19	22 10.63	−17 56.5	1.218	2.227	3.0	18.9	8 19	22 9.96	− 6 2.3	1.766	2.772	2.9	20.1
8 29	22 0.33	−18 11.4	1.217	2.216	5.2	19.0	8 29	22 1.62	− 6 56.8	1.772	2.776	2.7	20.1
9 8	21 50.87	−18 13.2	1.240	2.205	10.0	19.2	9 8	21 53.88	− 7 51.8	1.806	2.781	6.5	20.4
9 18	21 43.51	−17 59.6	1.285	2.195	14.6	19.5	9 18	21 47.56	− 8 42.1	1.866	2.785	10.2	20.6
9 28	21 39.12	−17 30.5	1.350	2.185	18.5	19.7	9 28	21 43.28	− 9 23.5	1.948	2.789	13.4	20.9
<b>392002</b>	2008 <i>YK</i> <sub>127</sub>		8 22.6 249°55	1.5°/21.2	18		<b>155240</b>	2005 <i>WO</i> <sub>21</sub>		8 22.6 325°51	0.5°/23.0	18	
7 20	22 30.37	−13 26.0	2.105	2.980	11.8	21.9	7 20	22 27.76	− 8 34.6	1.927	2.798	12.9	20.7
7 30	22 25.26	−14 9.2	2.019	2.965	8.7	21.7	7 30	22 23.39	− 8 52.1	1.849	2.790	9.6	20.5
8 9	22 18.31	−14 59.8	1.958	2.949	5.1	21.4	8 9	22 17.20	− 9 20.1	1.794	2.782	5.9	20.3
8 19	22 10.06	−15 53.2	1.923	2.933	1.7	21.2	8 19	22 9.78	− 9 55.4	1.764	2.774	1.8	20.0
8 29	22 1.33	−16 43.8	1.917	2.916	3.5	21.3	8 29	22 1.94	−10 33.3	1.762	2.767	2.6	20.0
9 8	21 53.03	−17 26.6	1.939	2.900	7.3	21.5	9 8	21 54.62	−11 9.0	1.786	2.760	6.7	20.3
9 18	21 46.02	−17 57.7	1.986	2.882	10.9	21.7	9 18	21 48.65	−11 38.4	1.836	2.753	10.5	20.5
9 28	21 40.98	−18 15.2	2.056	2.865	14.0	21.8	9 28	21 44.67	−11 58.3	1.908	2.747	13.8	20.7
<b>335495</b>	2005 <i>XZ</i> <sub>114</sub>		8 22.6 163°89	3.0°/24.9	18		<b>286545</b>	2002 <i>CA</i> <sub>155</sub>		8 22.6 153°62	8.6°/11.5	18	
7 20	22 31.82	− 2 12.3	1.843	2.688	14.6	20.9	7 20	22 33.70	−40 48.1	2.576	3.430	10.6	20.5
7 30	22 26.35	− 2 9.4	1.771	2.691	11.3	20.7	7 30	22 27.59	−42 12.3	2.540	3.435	9.3	20.4
8 9	22 18.94	− 2 21.7	1.720	2.693	7.6	20.5	8 9	22 19.59	−43 23.8	2.529	3.440	8.6	20.4
8 19	22 10.22	− 2 47.3	1.694	2.695	4.0	20.3	8 19	22 10.39	−44 16.3	2.542	3.444	8.9	20.4
8 29	22 1.10	− 3 22.7	1.695	2.697	3.5	20.2	8 29	22 0.91	−44 45.4	2.580	3.449	9.9	20.5
9 8	21 52.60	− 4 2.8	1.724	2.698	6.8	20.4	9 8	21 52.15	−44 49.7	2.641	3.453	11.3	20.6
9 18	21 45.60	− 4 42.6	1.778	2.699	10.5	20.7	9 18	21 44.93	−44 30.5	2.723	3.456	12.9	20.7
9 28	21 40.77	− 5 17.4	1.855	2.700	13.8	20.9	9 28	21 39.88	−43 50.8	2.822	3.460	14.2	20.9
<b>315970</b>	2009 <i>AP</i> <sub>33</sub>		8 22.6 18°42	3.6°/20.0	17		<b>377310</b>	2004 <i>GW</i> <sub>39</sub>		8 22.6 125°69	5.0°/26.9	17	
7 20	22 25.30	−13 25.0	0.920	1.842	18.8	19.0	7 20	22 32.12	+ 3 57.1	1.856	2.673	15.6	21.0
7 30	22 22.81	−14 53.3	0.879	1.848	13.6	18.7	7 30	22 26.49	+ 4 0.8	1.791	2.686	12.5	20.9
8 9	22 17.31	−16 36.2	0.856	1.855	8.0	18.5	8 9	22 18.98	+ 3 44.5	1.746	2.699	9.1	20.7
8 19	22 9.82	−18 21.0	0.854	1.863	3.7	18.3	8 19	22 10.24	+ 3 9.3	1.726	2.712	6.1	20.5
8 29	22 1.88	−19 53.4	0.874	1.873	6.7	18.5	8 29	22 1.19	+ 2 18.6	1.733	2.724	5.1	20.5
9 8	21 55.16	−21 1.9	0.915	1.884	12.1	18.8	9 8	21 52.81	+ 1 18.1	1.766	2.736	7.1	20.6
9 18	21 50.96	−21 41.4	0.975	1.896	17.1	19.1	9 18	21 45.95	+ 0 14.2	1.826	2.747	10.3	20.9
9 28	21 50.02	−21 51.3	1.052	1.909	21.1	19.5	9 28	21 41.23	− 0 46.7	1.909	2.757	13.3	21.1
<b>493794</b>													

EPHEMERIDES

8 22.6

8 22.6

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>43487</b>	2001 <i>BJ</i> <sub>60</sub>		8 22.6 243°01	2°9/19.9	18		<b>424428</b>	2008 <i>BJ</i> <sub>35</sub>		8 22.6 242°65	0°3/22.4	17	
7 20	22 30.47	-16 47.4	1.988	2.871	12.1	19.0	7 20	22 30.35	-8 24.6	1.601	2.477	14.9	21.3
7 30	22 25.43	-17 46.1	1.911	2.861	8.8	18.8	7 30	22 25.69	-9 17.6	1.525	2.469	11.0	21.1
8 9	22 18.45	-18 50.4	1.858	2.849	5.3	18.6	8 9	22 18.78	-10 26.0	1.470	2.460	6.6	20.8
8 19	22 10.13	-19 54.2	1.832	2.838	2.9	18.4	8 19	22 10.27	-11 44.0	1.440	2.451	1.7	20.5
8 29	22 1.33	-20 50.9	1.834	2.826	4.8	18.5	8 29	22 1.18	-13 4.1	1.438	2.442	3.3	20.6
9 8	21 53.05	-21 35.2	1.863	2.814	8.3	18.7	9 8	21 52.69	-14 17.9	1.461	2.432	8.2	20.8
9 18	21 46.18	-22 3.6	1.916	2.801	11.8	18.9	9 18	21 45.84	-15 18.9	1.509	2.422	12.6	21.1
9 28	21 41.41	-22 15.0	1.991	2.788	14.8	19.0	9 28	21 41.46	-16 3.1	1.578	2.412	16.4	21.3
<b>438723</b>	2008 <i>SH</i> <sub>226</sub>		8 22.6 299°26	4°9/18.9	18		<b>6752</b>	Ashley		8 22.6 230°27	3°6/25.9	18	
7 20	22 33.59	-22 33.4	1.699	2.591	13.4	21.0	7 20	22 28.53	+ 1 56.4	1.693	2.532	15.9	17.7
7 30	22 27.89	-23 21.0	1.639	2.590	9.9	20.8	7 30	22 24.21	+ 1 17.6	1.612	2.526	12.6	17.5
8 9	22 19.94	-24 7.8	1.603	2.589	6.6	20.6	8 9	22 17.84	+ 0 15.3	1.552	2.520	8.7	17.3
8 19	22 10.51	-24 46.7	1.591	2.588	4.9	20.5	8 19	22 10.01	- 1 7.9	1.516	2.514	4.9	17.0
8 29	22 0.72	-25 11.1	1.606	2.587	6.7	20.6	8 29	22 1.65	- 2 46.0	1.506	2.508	3.9	16.9
9 8	21 51.76	-25 17.3	1.646	2.587	10.0	20.8	9 8	21 53.83	- 4 30.4	1.524	2.501	7.2	17.1
9 18	21 44.64	-25 4.4	1.709	2.586	13.4	21.0	9 18	21 47.51	- 6 12.0	1.567	2.494	11.3	17.4
9 28	21 40.05	-24 33.7	1.793	2.585	16.4	21.2	9 28	21 43.45	- 7 43.0	1.633	2.487	15.0	17.6
<b>62243</b>	2000 <i>SO</i> <sub>76</sub>		8 22.6 14°54	1°2/23.8	18		<b>316951</b>	2001 <i>DB</i> <sub>48</sub>		8 22.6 238°61	0°8/21.7	18	
7 20	22 25.52	- 4 19.7	1.852	2.716	13.7	18.4	7 20	22 26.23	-10 35.2	2.343	3.213	11.0	20.8
7 30	22 21.74	- 5 7.6	1.783	2.717	10.3	18.2	7 30	22 22.00	-11 32.1	2.267	3.210	8.0	20.6
8 9	22 16.22	- 6 11.5	1.736	2.719	6.5	18.0	8 9	22 16.28	-12 37.9	2.216	3.207	4.7	20.4
8 19	22 9.52	- 7 27.0	1.714	2.722	2.4	17.7	8 19	22 9.56	-13 48.1	2.193	3.203	1.3	20.1
8 29	22 2.47	- 8 47.9	1.720	2.725	2.6	17.7	8 29	22 2.51	-14 57.5	2.198	3.199	2.8	20.2
9 8	21 55.97	-10 7.2	1.752	2.728	6.6	18.0	9 8	21 55.88	-16 0.8	2.231	3.196	6.2	20.4
9 18	21 50.81	-11 18.6	1.810	2.731	10.4	18.2	9 18	21 50.34	-16 53.9	2.291	3.192	9.4	20.6
9 28	21 47.62	-12 17.3	1.892	2.735	13.6	18.5	9 28	21 46.44	-17 34.2	2.375	3.188	12.2	20.8
<b>60253</b>	1999 <i>VB</i> <sub>225</sub>		8 22.6 355°49	0°5/22.1	18		<b>388624</b>	2007 <i>TH</i> <sub>50</sub>		8 22.6 356°25	7°7/17.4	18	
7 20	22 24.90	- 9 39.2	1.692	2.578	13.7	18.3	7 20	22 35.85	-29 53.5	1.575	2.467	14.2	20.1
7 30	22 21.47	-10 28.1	1.624	2.574	10.1	18.1	7 30	22 29.76	-30 38.2	1.522	2.465	11.2	19.9
8 9	22 16.14	-11 29.4	1.579	2.571	5.9	17.8	8 9	22 21.12	-31 14.4	1.491	2.463	8.6	19.7
8 19	22 9.51	-12 37.8	1.558	2.569	1.5	17.5	8 19	22 10.86	-31 33.7	1.483	2.462	7.8	19.7
8 29	22 2.48	-13 46.4	1.564	2.567	3.2	17.6	8 29	22 0.28	-31 30.0	1.501	2.461	9.3	19.8
9 8	21 56.05	-14 48.3	1.595	2.566	7.6	17.9	9 8	21 50.79	-31 1.2	1.542	2.461	12.2	19.9
9 18	21 51.08	-15 38.1	1.651	2.566	11.5	18.1	9 18	21 43.47	-30 9.2	1.605	2.462	15.2	20.1
9 28	21 48.25	-16 12.5	1.728	2.567	14.9	18.4	9 28	21 39.02	-28 58.0	1.688	2.462	17.9	20.3
<b>152862</b>	1999 <i>XQ</i> <sub>64</sub>		8 22.6 104°95	7°1/14.5	18		<b>225697</b>	2001 <i>QB</i> <sub>170</sub>		8 22.6 359°33	2°8/24.3	16	
7 20	22 30.45	-32 27.1	2.307	3.187	10.8	19.7	7 20	22 25.79	- 5 10.7	1.053	1.950	19.2	20.2
7 30	22 25.22	-33 46.5	2.261	3.191	8.7	19.6	7 30	22 22.98	- 5 2.0	0.994	1.946	14.7	20.0
8 9	22 18.21	-34 58.3	2.239	3.194	7.3	19.5	8 9	22 17.42	- 5 13.5	0.954	1.943	9.5	19.7
8 19	22 10.04	-35 55.8	2.244	3.198	7.2	19.5	8 19	22 9.93	- 5 42.6	0.934	1.942	4.2	19.4
8 29	22 1.59	-36 33.7	2.274	3.201	8.5	19.6	8 29	22 1.86	- 6 23.1	0.936	1.942	4.0	19.4
9 8	21 53.80	-36 49.5	2.329	3.205	10.5	19.7	9 8	21 54.75	- 7 6.7	0.960	1.944	9.2	19.7
9 18	21 47.45	-36 43.4	2.407	3.208	12.5	19.9	9 18	21 49.86	- 7 45.5	1.005	1.948	14.3	20.0
9 28	21 43.14	-36 17.3	2.504	3.212	14.4	20.0	9 28	21 48.04	- 8 13.2	1.069	1.953	18.8	20.3
<b>99196</b>	2001 <i>GN</i> <sub>8</sub>		8 22.6 115°64	8°6/14.4	17		<b>146150</b>	2000 <i>SS</i> <sub>138</sub>		8 22.6 309°74	2°5/24.5	18	
7 20	22 35.05	-34 42.3	1.963	2.839	12.5	19.6	7 20	22 29.92	- 4 16.6	1.959	2.811	13.5	19.7
7 30	22 28.83	-36 4.9	1.924	2.848	10.3	19.5	7 30	22 24.98	- 4 2.9	1.875	2.801	10.4	19.5
8 9	22 20.41	-37 16.2	1.910	2.857	8.8	19.4	8 9	22 18.18	- 4 1.3	1.813	2.790	6.9	19.2
8 19	22 10.63	-38 8.4	1.920	2.866	8.8	19.4	8 19	22 10.09	- 4 10.3	1.777	2.780	3.4	19.0
8 29	22 0.60	-38 35.5	1.955	2.874	10.1	19.5	8 29	22 1.54	- 4 27.2	1.768	2.771	3.2	19.0
9 8	21 51.50	-38 35.6	2.014	2.882	12.2	19.6	9 8	21 53.48	- 4 48.2	1.786	2.761	6.6	19.2
9 18	21 44.29	-38 10.5	2.094	2.890	14.3	19.8	9 18	21 46.76	- 5 9.3	1.830	2.752	10.2	19.4
9 28	21 39.60	-37 23.7	2.192	2.898	16.2	20.0	9 28	21 42.06	- 5 26.6	1.896	2.742	13.5	19.6
<b>444720</b>	2007 <i>FP</i>		8 22.6 192°49	2°9/19.7	18		<b>332845</b>	2010 <i>EP</i> <sub>112</sub>		8 22.6 42°33	0°7/23.2	16	
7 20	22 30.99	-20 15.0	2.495	3.373	10.1	21.5	7 20	22 28.49	- 6 40.0	1.430	2.310	16.1	20.9
7 30	22 25.35	-20 45.1	2.427	3.372	7.4	21.3	7 30	22 24.14	- 7 19.7	1.386	2.331	11.9	20.7
8 9	22 18.18	-21 15.7	2.383	3.371	4.7	21.1	8 9	22 17.68	- 8 14.6	1.363	2.352	7.2	20.5
8 19	22 10.03	-21 42.3	2.367	3.369	2.9	21.0	8 19	22 9.93	- 9 19.1	1.364	2.374	2.2	20.2
8 29	22 1.62	-22 1.3	2.380	3.368	4.3	21.1	8 29	22 1.97	-10 25.8	1.390	2.396	3.0	20.3
9 8	21 53.74	-22 9.6	2.421	3.366	7.0	21.3	9 8	21 54.94	-11 27.0	1.443	2.419	7.6	20.7
9 18	21 47.06	-22 6.1	2.488	3.364	9.8	21.5	9 18	21 49.73	-12 17.1	1.518	2.442	11.8	21.0
9 28	21 42.13	-21 50.7	2.578	3.362	12.2	21.6	9 28	21 46.92	-12 52.6	1.616	2.465	15.3	21.2
<b>235830</b>	2004 <i>XB</i> <sub>152</sub>		8 22.6 300°01	3°0/20.3	18		<b>442753</b>	2012 <i>WK</i> <sub>27</sub>		8 22.6 322°22	9°8/29.1	18	
7 20	22 31.26	-17 0.3	1.643	2.534	13.7	20.9	7 20	22 28.01	+ 9 55.4	1.511	2.318	19.0	20.2
7 30	22 26.30	-17 40.9	1.572	2.525	10.1	20.6	7 30	22 24.23	+11 0.7	1.424	2.299	16.3	20.0
8 9	22 19.09	-18 26.5	1.524	2.517	6.1	20.4	8 9	22 18.09	+11 41.9	1.354	2.281	13.4	19.7
8 19	22 10.33	-19 11.1	1.501	2.508	3.0	20.2	8 19	22 10.14	+11 54.8	1.305	2.263	10.9	19.5
8 29	22 1.07	-19 47.7	1.504	2.500	5.1	20.3	8 29	22 1.39	+11 37.8	1.278	2.246	9.8	19.4
9 8	21 52.50	-20 11.1	1.533	2.491	9.1	20.5	9 8	21 53.08	+10 54.4	1.274	2.229	10.9	19.4
9 18	21 45.66	-20 18.5	1.586	2.483	13.1	20.7	9 18	21 46.38	+ 9 51.2	1.292	2.214	13.6	19.6
9 28	21 41.31	-20 9.2	1.659	2.476	16.5	21.0	9 28	21 42.26	+ 8 38.0	1.331	2.199	16.8	19.7
<b>132544</b>	2002 <i>JU</i> <sub>73</sub>		8 22.6 166°18	3°5/26.5	18		<b>312984</b>	1999 <i>SH</i> <sub>21</sub>		8 22.6 35°8			



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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>406969</b>	2009 <i>QL</i> <sub>15</sub>		8 22.6 283°08	1.5°/24.3	17		<b>236971</b>	2007 <i>XC</i> <sub>18</sub>		8 22.6 20°91	0.9°/23.4	18	
7 20	22 25.88	- 3 46.5	2.375	3.223	11.6	21.7	7 20	22 27.75	- 6 30.5	1.779	2.648	13.9	20.4
7 30	22 21.82	- 4 21.3	2.277	3.203	8.9	21.5	7 30	22 23.47	- 7 4.5	1.711	2.649	10.4	20.1
8 9	22 16.24	- 5 9.5	2.203	3.182	5.7	21.3	8 9	22 17.31	- 7 52.2	1.665	2.651	6.4	19.9
8 19	22 9.58	- 6 8.7	2.156	3.162	2.5	21.0	8 19	22 9.89	- 8 49.6	1.644	2.654	2.1	19.6
8 29	22 2.48	- 7 14.5	2.137	3.141	2.3	21.0	8 29	22 2.11	- 9 50.8	1.651	2.656	2.7	19.7
9 8	21 55.68	- 8 21.9	2.146	3.120	5.7	21.2	9 8	21 54.94	-10 49.6	1.684	2.658	6.9	20.0
9 18	21 49.89	- 9 25.9	2.182	3.099	9.0	21.4	9 18	21 49.21	-11 40.5	1.742	2.661	10.8	20.2
9 28	21 45.70	-10 21.9	2.243	3.078	12.1	21.5	9 28	21 45.60	-12 19.7	1.822	2.664	14.2	20.4
<b>473183</b>	2015 <i>KX</i> <sub>67</sub>		8 22.6 346°00	10.4°/12.6	18		<b>445855</b>	2012 <i>HG</i> <sub>42</sub>		8 22.6 234°47	3.7°/18.2	18	
7 20	22 32.72	-35 8.3	1.619	2.507	14.1	20.1	7 20	22 29.48	-23 33.2	2.810	3.688	9.1	21.5
7 30	22 27.70	-37 1.3	1.577	2.506	11.8	20.0	7 30	22 24.24	-24 20.4	2.734	3.677	6.8	21.3
8 9	22 20.05	-38 42.3	1.557	2.504	10.5	19.9	8 9	22 17.58	-25 6.6	2.684	3.666	4.7	21.2
8 19	22 10.62	-40 0.5	1.561	2.503	10.8	19.9	8 19	22 9.96	-25 47.6	2.662	3.654	3.7	21.1
8 29	22 0.72	-40 47.6	1.588	2.502	12.4	20.0	8 29	22 2.03	-26 19.1	2.669	3.642	5.0	21.2
9 8	21 51.79	-41 0.4	1.637	2.501	14.7	20.2	9 8	21 54.50	-26 38.2	2.703	3.629	7.3	21.3
9 18	21 45.01	-40 40.6	1.705	2.500	17.1	20.4	9 18	21 48.01	-26 43.5	2.763	3.616	9.6	21.4
9 28	21 41.16	-39 53.0	1.789	2.500	19.2	20.5	9 28	21 43.08	-26 35.0	2.846	3.603	11.8	21.6
<b>321003</b>	2008 <i>KG</i> <sub>17</sub>		8 22.6 307°63	1.8°/24.5	18		<b>505125</b>	2012 <i>FU</i> <sub>49</sub>		8 22.6 283°37	1.9°/24.0	17	
7 20	22 26.07	- 3 2.8	2.221	3.069	12.3	20.9	7 20	22 30.01	- 4 6.6	1.408	2.279	16.8	21.6
7 30	22 21.93	- 3 34.7	2.143	3.068	9.4	20.7	7 30	22 25.90	- 4 35.1	1.319	2.257	12.9	21.3
8 9	22 16.26	- 4 20.4	2.088	3.066	6.1	20.5	8 9	22 19.20	- 5 24.9	1.249	2.234	8.4	21.0
8 19	22 9.57	- 5 17.2	2.060	3.064	2.8	20.3	8 19	22 10.51	- 6 32.8	1.203	2.210	3.4	20.7
8 29	22 2.56	- 6 20.6	2.059	3.063	2.5	20.3	8 29	22 0.92	- 7 52.3	1.182	2.187	3.4	20.6
9 8	21 55.98	- 7 25.2	2.086	3.062	5.7	20.5	9 8	21 51.79	- 9 14.1	1.185	2.163	8.7	20.8
9 18	21 50.53	- 8 26.1	2.140	3.060	9.1	20.7	9 18	21 44.41	-10 29.3	1.213	2.140	13.8	21.1
9 28	21 46.78	- 9 18.9	2.218	3.059	12.0	20.9	9 28	21 39.82	-11 30.6	1.260	2.116	18.4	21.3
<b>479962</b>	2014 <i>JS</i> <sub>10</sub>		8 22.6 4°19	6.3°/16.8	18		<b>402443</b>	2006 <i>BX</i> <sub>35</sub>		8 22.6 276°87	0.6°/23.2	18	
7 20	22 29.69	-26 19.1	1.803	2.699	12.5	20.8	7 20	22 29.57	- 8 49.0	2.299	3.160	11.5	20.8
7 30	22 25.01	-27 32.3	1.750	2.699	9.6	20.6	7 30	22 24.48	- 8 53.5	2.217	3.152	8.6	20.6
8 9	22 18.25	-28 42.0	1.721	2.699	7.1	20.5	8 9	22 17.79	- 9 5.9	2.158	3.144	5.2	20.4
8 19	22 10.12	-29 40.5	1.716	2.700	6.4	20.4	8 19	22 10.03	- 9 23.9	2.126	3.136	1.7	20.1
8 29	22 1.65	-30 20.8	1.738	2.701	8.1	20.5	8 29	22 1.91	- 9 44.1	2.123	3.128	2.3	20.2
9 8	21 53.94	-30 39.0	1.783	2.702	10.8	20.7	9 8	21 54.24	-10 3.3	2.148	3.120	5.9	20.4
9 18	21 47.90	-30 34.5	1.852	2.704	13.7	20.9	9 18	21 47.73	-10 18.3	2.199	3.111	9.2	20.6
9 28	21 44.20	-30 9.1	1.939	2.706	16.2	21.1	9 28	21 42.97	-10 26.7	2.274	3.103	12.1	20.8
<b>90851</b>	1996 <i>GX</i>		8 22.6 147°99	4.2°/19.7	18		<b>275374</b>	2011 <i>AL</i> <sub>60</sub>		8 22.6 116°42	0.9°/21.9	18	
7 20	22 35.76	-18 52.4	1.452	2.344	15.1	19.8	7 20	22 31.88	-10 49.0	1.723	2.599	14.0	20.9
7 30	22 29.75	-19 49.6	1.397	2.350	11.1	19.6	7 30	22 26.48	-11 38.4	1.666	2.611	10.2	20.6
8 9	22 21.18	-20 50.3	1.364	2.354	6.9	19.3	8 9	22 19.06	-12 38.0	1.633	2.623	6.0	20.4
8 19	22 10.92	-21 46.0	1.355	2.359	4.2	19.2	8 19	22 10.36	-13 41.9	1.624	2.635	1.6	20.2
8 29	22 0.26	-22 28.6	1.372	2.363	6.3	19.3	8 29	22 1.37	-14 43.3	1.644	2.646	3.4	20.3
9 8	21 50.60	-22 52.5	1.415	2.366	10.4	19.6	9 8	21 53.14	-15 36.1	1.690	2.657	7.7	20.6
9 18	21 43.06	-22 56.0	1.480	2.369	14.4	19.8	9 18	21 46.56	-16 15.9	1.761	2.667	11.5	20.9
9 28	21 38.40	-22 40.0	1.565	2.372	17.7	20.1	9 28	21 42.28	-16 40.8	1.855	2.677	14.7	21.1
<b>301740</b>	2010 <i>GZ</i> <sub>157</sub>		8 22.6 73°68	5.9°/17.7	18		<b>255347</b>	2005 <i>WV</i> <sub>75</sub>		8 22.6 87°56	5.7°/16.7	18	
7 20	22 32.95	-25 36.5	1.789	2.680	12.8	20.4	7 20	22 30.49	-27 32.5	2.206	3.092	10.9	20.1
7 30	22 27.27	-26 38.9	1.744	2.691	9.7	20.2	7 30	22 25.28	-28 36.3	2.152	3.094	8.4	19.9
8 9	22 19.50	-27 37.3	1.722	2.702	6.9	20.1	8 9	22 18.29	-29 35.8	2.122	3.095	6.4	19.8
8 19	22 10.44	-28 24.4	1.726	2.713	5.9	20.0	8 19	22 10.15	-30 24.9	2.119	3.097	5.8	19.7
8 29	22 1.17	-28 53.9	1.757	2.725	7.5	20.1	8 29	22 1.74	-30 58.0	2.142	3.099	7.2	19.8
9 8	21 52.78	-29 2.6	1.812	2.736	10.3	20.3	9 8	21 53.97	-31 12.2	2.191	3.100	9.5	20.0
9 18	21 46.19	-28 50.6	1.890	2.747	13.2	20.5	9 18	21 47.62	-31 7.0	2.263	3.102	12.0	20.2
9 28	21 42.00	-28 20.0	1.989	2.759	15.7	20.8	9 28	21 43.29	-30 43.8	2.356	3.104	14.2	20.3
<b>482195</b>	2010 <i>VU</i> <sub>59</sub>		8 22.6 177°60	2.4°/20.1	18		<b>361048</b>	2005 <i>YZ</i> <sub>12</sub>		8 22.6 112°97	2.0°/21.2	17	
7 20	22 30.92	-19 11.0	2.654	3.528	9.7	21.8	7 20	22 33.97	-12 35.6	1.367	2.256	16.1	21.3
7 30	22 25.22	-19 38.0	2.585	3.529	7.1	21.6	7 30	22 28.45	-13 34.4	1.315	2.267	11.7	21.1
8 9	22 18.10	-20 5.9	2.542	3.530	4.4	21.4	8 9	22 20.42	-14 44.0	1.285	2.278	6.8	20.8
8 19	22 10.07	-20 30.9	2.526	3.530	2.5	21.3	8 19	22 10.75	-15 56.4	1.278	2.288	2.3	20.6
8 29	22 1.80	-20 49.4	2.540	3.531	3.8	21.4	8 29	22 0.73	-17 2.6	1.298	2.298	4.6	20.8
9 8	21 54.03	-20 58.7	2.583	3.530	6.5	21.6	9 8	21 51.70	-17 55.1	1.343	2.308	9.4	21.1
9 18	21 47.39	-20 57.4	2.652	3.530	9.1	21.8	9 18	21 44.77	-18 29.5	1.411	2.317	13.8	21.4
9 28	21 42.38	-20 45.4	2.744	3.530	11.5	21.9	9 28	21 40.68	-18 44.7	1.499	2.326	17.4	21.6
<b>250719</b>	Jurajbardy		8 22.6 328°66	0.2°/22.5	18 R		<b>499082</b>	2009 <i>FX</i> <sub>7</sub>		8 22.6 125°03	3.1°/20.4	17	
7 20	22 31.27	-11 34.1	1.928	2.801	12.8	19.9	7 20	22 35.06	-16 22.3	1.479	2.369	15.1	21.6
7 30	22 25.95	-11 35.2	1.853	2.796	9.5	19.7	7 30	22 29.14	-17 14.7	1.426	2.378	11.0	21.3
8 9	22 18.75	-11 43.1	1.801	2.791	5.7	19.5	8 9	22 20.78	-18 12.7	1.394	2.386	6.6	21.1
8 19	22 10.28	-11 54.8	1.775	2.786	1.5	19.2	8 19	22 10.85	-19 8.8	1.388	2.395	3.2	20.9
8 29	22 1.42	-12 6.5	1.777	2.781	2.8	19.3	8 29	22 0.57	-19 55.1	1.408	2.403	5.3	21.1
9 8	21 53.17	-12 14.6	1.806	2.777	6.9	19.5	9 8	21 51.26	-20 25.9	1.453	2.410	9.6	21.4
9 18	21 46.36	-12 16.3	1.860	2.773	10.6	19.7	9 18	21 44.00	-20 38.8	1.521	2.418	13.6	21.6
9 28	21 41.66	-12 9.9	1.938	2.769	13.9	19.9	9 28	21 39.49	-20 33.6	1.610	2.425	17.0	21.9
<b>328553</b>	2009 <i>RN</i> <sub>60</sub>		8 22.6 352°14	9.1°/28.6	17		<b>479009</b>	2012 <i>XG</i> <sub>147</sub>					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>402195</b>	2004 <i>TE</i> <sub>212</sub>		8 22.6 279°01	2°9/19.8	18		<b>451151</b>	2009 <i>SR</i> <sub>10</sub>		8 22.6 337°34	1°9/20.9	18	
7 20	22 29.36	-18 49.3	2.285	3.167	10.8	21.1	7 20	22 26.80	-14 32.6	1.829	2.719	12.7	20.5
7 30	22 24.42	-19 28.4	2.207	3.155	7.9	20.9	7 30	22 22.87	-15 10.9	1.755	2.707	9.2	20.3
8 9	22 17.80	-20 9.8	2.153	3.143	4.9	20.7	8 9	22 17.04	-15 56.0	1.704	2.697	5.4	20.1
8 19	22 10.06	-20 49.0	2.127	3.130	2.9	20.5	8 19	22 9.91	-16 43.0	1.678	2.687	2.1	19.8
8 29	22 1.93	-21 20.9	2.128	3.118	4.4	20.6	8 29	22 2.35	-17 25.9	1.679	2.678	4.0	19.9
9 8	21 54.28	-21 41.9	2.157	3.106	7.5	20.8	9 8	21 55.34	-17 59.5	1.706	2.669	7.9	20.1
9 18	21 47.84	-21 49.8	2.211	3.093	10.5	20.9	9 18	21 49.74	-18 20.2	1.757	2.661	11.6	20.4
9 28	21 43.24	-21 44.0	2.287	3.081	13.2	21.1	9 28	21 46.24	-18 26.3	1.829	2.654	14.8	20.6
<b>49772</b>	1999 <i>WT</i> <sub>7</sub>		8 22.6 25°96	2°1/24.1	18		<b>221486</b>	2006 <i>BB</i> <sub>271</sub>		8 22.6 307°56	0°6/21.9	18	
7 20	22 29.66	-4 38.2	1.293	2.171	17.6	18.4	7 20	22 25.69	-9 44.6	2.105	2.979	11.9	20.0
7 30	22 25.42	-4 56.0	1.233	2.174	13.3	18.1	7 30	22 21.85	-10 41.0	2.025	2.969	8.7	19.8
8 9	22 18.71	-5 33.1	1.193	2.179	8.5	17.9	8 9	22 16.36	-11 48.4	1.968	2.958	5.1	19.6
8 19	22 10.33	-6 25.4	1.176	2.183	3.5	17.6	8 19	22 9.73	-13 2.2	1.937	2.948	1.3	19.3
8 29	22 1.49	-7 26.1	1.183	2.188	3.4	17.6	8 29	22 2.68	-14 16.4	1.935	2.938	2.9	19.4
9 8	21 53.52	-8 26.7	1.214	2.194	8.3	17.9	9 8	21 56.06	-15 24.9	1.960	2.928	6.7	19.6
9 18	21 47.54	-9 20.0	1.269	2.199	13.0	18.2	9 18	21 50.62	-16 22.8	2.011	2.918	10.3	19.8
9 28	21 44.33	-10 0.4	1.343	2.206	17.1	18.5	9 28	21 46.98	-17 6.7	2.085	2.908	13.3	20.0
<b>481752</b>	2008 <i>HE</i> <sub>53</sub>		8 22.6 83°82	3°0/19.4	18		<b>385194</b>	1998 <i>KG</i> <sub>62</sub>		8 22.6 246°83	0°0/22.6	13 C	
7 20	22 27.60	-17 36.6	2.185	3.071	11.0	20.9	7 20	22 9.48	-11 28.7	43.708	44.566	0.7	23.1
7 30	22 23.11	-18 43.4	2.124	3.075	8.0	20.7	7 30	22 8.85	-11 32.1	43.629	44.565	0.5	23.0
8 9	22 17.00	-19 53.9	2.088	3.078	4.9	20.6	8 9	22 8.17	-11 35.8	43.577	44.564	0.3	23.0
8 19	22 9.83	-21 2.3	2.078	3.082	3.0	20.4	8 19	22 7.45	-11 39.8	43.553	44.563	0.1	23.0
8 29	22 2.37	-22 2.8	2.097	3.086	4.7	20.6	8 29	22 6.73	-11 43.7	43.558	44.562	0.1	23.0
9 8	21 55.44	-22 50.5	2.143	3.089	7.7	20.8	9 8	22 6.02	-11 47.6	43.592	44.561	0.4	23.0
9 18	21 49.76	-23 22.9	2.214	3.093	10.7	21.0	9 18	22 5.35	-11 51.2	43.655	44.560	0.6	23.1
9 28	21 45.91	-23 38.9	2.307	3.097	13.3	21.1	9 28	22 4.74	-11 54.5	43.744	44.559	0.8	23.1
<b>381728</b>	2009 <i>RF</i> <sub>17</sub>		8 22.6 321°52	2°7/24.7	18		<b>362972</b>	2013 <i>CT</i> <sub>16</sub>		8 22.6 289°82	1°0/23.7	18	
7 20	22 26.32	-2 5.9	1.344	2.216	17.4	20.6	7 20	22 26.20	-4 26.8	1.986	2.845	13.1	20.9
7 30	22 23.08	-2 36.5	1.267	2.204	13.4	20.3	7 30	22 22.28	-5 21.0	1.905	2.838	9.9	20.7
8 9	22 17.43	-3 30.8	1.210	2.192	8.9	20.0	8 9	22 16.65	-6 31.1	1.847	2.831	6.2	20.5
8 19	22 10.03	-4 45.5	1.175	2.180	4.2	19.7	8 19	22 9.81	-7 53.0	1.815	2.824	2.3	20.2
8 29	22 1.95	-6 13.6	1.164	2.169	3.6	19.7	8 29	22 2.55	-9 20.7	1.811	2.817	2.5	20.2
9 8	21 54.48	-7 45.2	1.178	2.159	8.3	19.9	9 8	21 55.74	-10 46.9	1.835	2.809	6.5	20.5
9 18	21 48.80	-9 10.5	1.215	2.149	13.2	20.2	9 18	21 50.17	-12 5.3	1.885	2.802	10.2	20.7
9 28	21 45.80	-10 21.6	1.272	2.140	17.5	20.4	9 28	21 46.49	-13 10.9	1.958	2.796	13.5	20.9
<b>372988</b>	2011 <i>CK</i> <sub>71</sub>		8 22.6 201°40	0°6/23.1	18		<b>26897</b>	<i>Červená</i>		8 22.6 2°21	1°2/23.3	18	
7 20	22 31.98	-7 25.5	1.931	2.791	13.4	21.4	7 20	22 30.00	-8 45.5	1.261	2.152	17.1	18.7
7 30	22 26.53	-7 56.2	1.853	2.788	10.0	21.2	7 30	22 25.78	-8 35.9	1.200	2.150	12.8	18.4
8 9	22 19.16	-8 39.0	1.798	2.784	6.1	21.0	8 9	22 18.99	-8 39.4	1.159	2.150	7.9	18.1
8 19	22 10.45	-9 30.2	1.770	2.779	1.9	20.7	8 19	22 10.47	-8 52.6	1.141	2.150	2.7	17.8
8 29	22 1.31	-10 24.5	1.769	2.774	2.6	20.7	8 29	22 1.46	-9 10.5	1.146	2.152	3.4	17.9
9 8	21 52.70	-11 16.0	1.797	2.768	6.8	21.0	9 8	21 53.36	-9 27.5	1.175	2.154	8.6	18.2
9 18	21 45.53	-12 0.2	1.850	2.762	10.7	21.2	9 18	21 47.31	-9 38.7	1.227	2.158	13.3	18.5
9 28	21 40.47	-12 33.5	1.926	2.755	14.0	21.4	9 28	21 44.11	-9 40.6	1.298	2.162	17.4	18.8
<b>107153</b>	2001 <i>BW</i> <sub>13</sub>		8 22.6 177°42	0°2/22.5	18		<b>455045</b>	2015 <i>UR</i> <sub>7</sub>		8 22.6 311°16	6°1/17.1	18	
7 20	22 30.99	-8 13.7	1.629	2.502	14.8	19.7	7 20	22 32.45	-28 51.2	2.143	3.026	11.3	21.1
7 30	22 26.07	-9 7.6	1.561	2.504	10.9	19.4	7 30	22 26.82	-29 38.9	2.081	3.020	8.8	20.9
8 9	22 18.98	-10 16.0	1.515	2.504	6.5	19.2	8 9	22 19.28	-30 21.1	2.044	3.014	6.8	20.8
8 19	22 10.42	-11 33.2	1.494	2.505	1.7	18.9	8 19	22 10.50	-30 51.6	2.032	3.009	6.1	20.7
8 29	22 1.39	-12 51.5	1.501	2.505	3.2	19.0	8 29	22 1.41	-31 5.3	2.047	3.004	7.5	20.8
9 8	21 53.05	-14 3.0	1.534	2.505	7.9	19.3	9 8	21 53.01	-30 59.6	2.087	2.998	9.9	20.9
9 18	21 46.37	-15 1.9	1.592	2.504	12.1	19.5	9 18	21 46.13	-30 34.7	2.151	2.993	12.4	21.1
9 28	21 42.09	-15 44.5	1.672	2.503	15.7	19.8	9 28	21 41.41	-29 52.5	2.236	2.988	14.7	21.2
<b>374260</b>	2005 <i>JX</i> <sub>52</sub>		8 22.6 41°96	4°7/19.4	17		<b>453681</b>	2010 <i>VS</i> <sub>147</sub>		8 22.6 299°01	4°9/27.6	17	
7 20	22 30.51	-17 22.2	1.106	2.018	17.3	20.4	7 20	22 26.24	+5 3.8	2.170	2.981	13.8	21.8
7 30	22 26.22	-18 45.4	1.073	2.036	12.5	20.1	7 30	22 22.21	+5 4.3	2.080	2.970	11.3	21.7
8 9	22 19.17	-20 14.0	1.060	2.054	7.6	19.9	8 9	22 16.56	+4 46.5	2.012	2.960	8.5	21.5
8 19	22 10.44	-21 36.4	1.069	2.074	4.7	19.8	8 19	22 9.79	+4 10.6	1.968	2.949	5.9	21.3
8 29	22 1.49	-22 41.7	1.102	2.094	7.2	20.0	8 29	22 2.59	+3 19.0	1.950	2.939	4.9	21.2
9 8	21 53.83	-23 23.1	1.157	2.114	11.6	20.4	9 8	21 55.78	+2 16.4	1.960	2.929	6.6	21.3
9 18	21 48.55	-23 38.7	1.234	2.135	15.7	20.7	9 18	21 50.08	+1 8.5	1.995	2.919	9.4	21.4
9 28	21 46.31	-23 30.1	1.328	2.157	19.2	21.0	9 28	21 46.14	+0 1.3	2.055	2.909	12.3	21.6
<b>342480</b>	2008 <i>UL</i> <sub>147</sub>		8 22.6 266°22	3°0/20.2	18		<b>86410</b>	2000 <i>AU</i> <sub>192</sub>		8 22.6 305°82	2°5/25.2	18	
7 20	22 31.89	-17 22.3	1.829	2.714	12.8	21.7	7 20	22 24.97	-0 28.4	2.049	2.893	13.4	19.0
7 30	22 26.68	-18 5.3	1.752	2.702	9.4	21.5	7 30	22 21.47	-1 11.5	1.946	2.866	10.4	18.8
8 9	22 19.35	-18 53.0	1.698	2.689	5.7	21.3	8 9	22 16.24	-2 13.7	1.865	2.839	7.1	18.5
8 19	22 10.54	-19 39.4	1.671	2.677	3.0	21.1	8 19	22 9.73	-3 33.0	1.810	2.812	3.6	18.3
8 29	22 1.22	-20 18.2	1.670	2.664	4.9	21.2	8 29	22 2.65	-5 4.3	1.782	2.786	2.9	18.2
9 8	21 52.48	-20 44.3	1.696	2.651	8.7	21.4	9 8	21 55.87	-6 40.7	1.782	2.759	6.3	18.3
9 18	21 45.30	-20 54.9	1.746	2.638	12.4	21.6	9 18	21 50.20	-8 14.8	1.808	2.733	10.2	18.5
9 28	21 40.43	-20 49.4	1.818	2.624	15.6	21.7	9 28	21 46.36	-9 40.0	1.859	2.707	13.7	18.7
<b>122617</b>	2000 <i>RT</i> <sub>54</sub>		8 22.6 5°91	0°9/22.2	18		<b>138019</b>	2000 <i>CG</i> <sub>117</sub>		8 22.6 203°77	0°8/21.9	18	

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>377935</b>	2006 <i>HY</i> <sub>15</sub>		8 22.6 163°46'	0°2/22.4	18		<b>448372</b>	2009 <i>KJ</i> <sub>1</sub>		8 22.6 129°81'	21°2/4.9	18	
7 20	22 30.51	-9 32.9	2.114	2.979	12.2	21.7	7 20	22 51.40	-53 46.1	1.108	1.951	22.2	20.3
7 30	22 25.25	-10 12.1	2.045	2.984	9.0	21.5	7 30	22 43.94	-56 20.0	1.097	1.955	21.4	20.3
8 9	22 18.31	-11 0.8	1.999	2.987	5.3	21.3	8 9	22 30.73	-58 13.2	1.102	1.958	21.3	20.3
8 19	22 10.24	-11 54.8	1.981	2.991	1.4	21.1	8 19	22 13.70	-59 9.4	1.122	1.961	22.0	20.4
8 29	22 1.86	-12 48.9	1.990	2.994	2.6	21.2	8 29	21 56.30	-59 1.0	1.157	1.964	23.2	20.5
9 8	21 54.02	-13 38.0	2.028	2.996	6.5	21.4	9 8	21 42.01	-57 52.6	1.205	1.967	24.7	20.6
9 18	21 47.49	-14 18.2	2.092	2.999	9.9	21.6	9 18	21 32.90	-55 55.8	1.264	1.969	26.2	20.8
9 28	21 42.86	-14 46.9	2.180	3.000	12.9	21.8	9 28	21 29.50	-53 24.6	1.334	1.972	27.6	20.9
<b>319328</b>	2006 <i>BX</i> <sub>183</sub>		8 22.6 160°87'	0°4/22.9	18		<b>319385</b>	2006 <i>DY</i> <sub>178</sub>		8 22.6 233°14'	2°6/20.1	18	
7 20	22 29.64	-9 27.5	2.422	3.282	11.0	21.0	7 20	22 30.71	-19 15.3	2.513	3.390	10.1	21.1
7 30	22 24.42	-9 36.2	2.349	3.284	8.2	20.8	7 30	22 25.23	-19 40.5	2.440	3.385	7.4	20.9
8 9	22 17.73	-9 52.0	2.299	3.285	4.9	20.6	8 9	22 18.23	-20 6.6	2.393	3.381	4.6	20.7
8 19	22 10.08	-10 12.4	2.276	3.286	1.5	20.4	8 19	22 10.25	-20 29.9	2.373	3.377	2.6	20.6
8 29	22 2.15	-10 34.2	2.282	3.287	2.2	20.4	8 29	22 1.99	-20 46.4	2.381	3.372	4.0	20.7
9 8	21 54.71	-10 54.0	2.317	3.288	5.6	20.7	9 8	21 54.22	-20 53.4	2.418	3.367	6.8	20.9
9 18	21 48.39	-11 9.2	2.379	3.289	8.7	20.9	9 18	21 47.62	-20 49.4	2.481	3.363	9.6	21.0
9 28	21 43.73	-11 17.7	2.464	3.290	11.5	21.0	9 28	21 42.73	-20 34.3	2.567	3.358	12.0	21.2
<b>330357</b>	2006 <i>VW</i> <sub>69</sub>		8 22.6 75°67'	5°1/18.8	18		<b>391620</b>	2007 <i>VJ</i> <sub>53</sub>		8 22.6 264°31'	2°6/20.2	18	
7 20	22 32.82	-20 26.8	1.448	2.347	14.8	20.4	7 20	22 29.67	-16 15.1	1.920	2.805	12.3	21.2
7 30	22 27.61	-21 39.9	1.400	2.355	10.9	20.2	7 30	22 24.90	-17 8.2	1.850	2.801	9.0	21.0
8 9	22 19.95	-22 55.0	1.374	2.363	7.0	20.0	8 9	22 18.23	-18 6.7	1.805	2.796	5.4	20.8
8 19	22 10.70	-24 2.7	1.372	2.372	5.1	19.9	8 19	22 10.28	-19 4.8	1.785	2.792	2.7	20.6
8 29	22 1.11	-24 54.5	1.396	2.380	7.1	20.0	8 29	22 1.92	-19 56.3	1.793	2.787	4.5	20.7
9 8	21 52.51	-25 24.8	1.444	2.389	10.9	20.3	9 8	21 54.14	-20 35.7	1.827	2.782	8.2	20.9
9 18	21 45.96	-25 32.2	1.515	2.397	14.5	20.5	9 18	21 47.79	-21 0.2	1.886	2.777	11.6	21.1
9 28	21 42.16	-25 18.0	1.605	2.405	17.6	20.8	9 28	21 43.56	-21 8.4	1.967	2.773	14.6	21.3
<b>261933</b>	2006 <i>MS</i> <sub>3</sub>		8 22.6 82°59'	1°5/23.8	17		<b>504493</b>	2008 <i>GD</i> <sub>114</sub>		8 22.6 97°64'	1°1/23.5	17	
7 20	22 33.39	-4 45.4	1.349	2.219	17.4	20.8	7 20	22 32.17	-6 37.7	1.541	2.411	15.7	21.7
7 30	22 27.89	-5 22.1	1.303	2.241	13.1	20.6	7 30	22 26.95	-6 58.9	1.480	2.419	11.7	21.5
8 9	22 20.03	-6 17.1	1.277	2.262	8.1	20.4	8 9	22 19.51	-7 34.7	1.441	2.426	7.2	21.2
8 19	22 10.71	-7 24.8	1.275	2.283	3.0	20.1	8 19	22 10.62	-8 20.8	1.425	2.434	2.5	21.0
8 29	22 1.15	-8 37.2	1.299	2.304	3.2	20.2	8 29	22 1.36	-9 11.2	1.437	2.442	3.0	21.0
9 8	21 52.64	-9 45.8	1.348	2.325	8.0	20.5	9 8	21 52.91	-9 59.5	1.474	2.449	7.6	21.3
9 18	21 46.19	-10 43.9	1.421	2.345	12.5	20.9	9 18	21 46.24	-10 40.0	1.536	2.457	11.9	21.6
9 28	21 42.45	-11 27.3	1.516	2.365	16.2	21.1	9 28	21 42.07	-11 9.1	1.619	2.464	15.5	21.9
<b>148147</b>	1999 <i>XZ</i> <sub>28</sub>		8 22.6 284°54'	5°6/18.2	18		<b>288102</b>	2003 <i>WW</i> <sub>33</sub>		8 22.6 224°42'	7°7/29.8	18	
7 20	22 31.91	-20 56.1	1.467	2.367	14.6	20.7	7 20	22 28.97	+11 0.7	1.924	2.704	16.4	20.1
7 30	22 27.32	-22 16.4	1.392	2.348	10.9	20.5	7 30	22 24.39	+11 28.6	1.845	2.703	13.9	19.9
8 9	22 20.06	-23 41.8	1.340	2.328	7.3	20.2	8 9	22 17.96	+11 33.3	1.785	2.703	11.3	19.7
8 19	22 10.82	-25 2.4	1.311	2.309	5.6	20.1	8 19	22 10.22	+11 13.3	1.748	2.702	8.9	19.6
8 29	22 0.81	-26 8.0	1.308	2.289	7.9	20.1	8 29	22 2.04	+10 29.9	1.735	2.701	7.7	19.5
9 8	21 51.43	-26 50.7	1.329	2.269	11.9	20.3	9 8	21 54.35	+9 27.6	1.747	2.701	8.6	19.6
9 18	21 44.00	-27 7.3	1.371	2.250	16.0	20.5	9 18	21 48.02	+8 12.9	1.784	2.700	10.8	19.7
9 28	21 39.47	-26 58.2	1.432	2.230	19.5	20.7	9 28	21 43.74	+6 53.8	1.845	2.699	13.5	19.9
<b>8448</b>	Belyakina		8 22.6 270°47'	3°1/24.8	18		<b>419713</b>	2010 <i>UO</i> <sub>93</sub>		8 22.6 180°20'	10°3/2.7	17	
7 20	22 30.92	-2 24.1	1.431	2.294	17.1	17.5	7 20	22 32.66	+21 5.4	2.215	2.905	16.9	22.1
7 30	22 26.35	-2 33.9	1.357	2.287	13.2	17.2	7 30	22 27.00	+21 46.4	2.132	2.907	15.1	22.0
8 9	22 19.35	-3 3.8	1.302	2.281	8.8	17.0	8 9	22 19.48	+22 1.7	2.065	2.908	13.2	21.9
8 19	22 10.61	-3 51.4	1.270	2.274	4.4	16.7	8 19	22 10.64	+21 48.2	2.020	2.908	11.5	21.7
8 29	22 1.24	-4 51.2	1.263	2.267	3.8	16.6	8 29	22 1.32	+21 5.4	1.997	2.908	10.4	21.7
9 8	21 52.53	-5 55.6	1.282	2.260	8.1	16.9	9 8	21 52.45	+19 56.3	1.999	2.907	10.4	21.7
9 18	21 45.64	-6 56.8	1.324	2.253	12.7	17.1	9 18	21 44.89	+18 27.2	2.026	2.905	11.6	21.8
9 28	21 41.43	-7 48.2	1.387	2.246	16.8	17.4	9 28	21 39.35	+16 46.2	2.077	2.902	13.3	21.9
<b>322236</b>	2011 <i>BR</i> <sub>110</sub>		8 22.6 281°05'	2°7/24.8	17		<b>150897</b>	2001 <i>SU</i> <sub>292</sub>		8 22.6 36°07'	1°2/23.5	17	
7 20	22 29.08	-2 16.4	1.547	2.407	16.1	21.2	7 20	22 30.30	-6 44.5	1.332	2.214	16.9	19.8
7 30	22 24.90	-2 39.7	1.466	2.396	12.5	21.0	7 30	22 25.82	-7 3.0	1.277	2.221	12.7	19.6
8 9	22 18.45	-3 23.2	1.406	2.385	8.3	20.7	8 9	22 18.94	-7 37.6	1.242	2.230	7.8	19.4
8 19	22 10.37	-4 24.2	1.369	2.373	4.0	20.4	8 19	22 10.49	-8 23.8	1.230	2.239	2.7	19.1
8 29	22 1.66	-5 36.8	1.357	2.362	3.4	20.4	8 29	22 1.66	-9 14.9	1.242	2.248	3.2	19.1
9 8	21 53.50	-6 53.1	1.372	2.350	7.7	20.6	9 8	21 53.75	-10 3.4	1.280	2.258	8.2	19.5
9 18	21 46.97	-8 5.3	1.411	2.339	12.2	20.8	9 18	21 47.80	-10 43.4	1.340	2.268	12.7	19.8
9 28	21 42.91	-9 6.6	1.471	2.327	16.2	21.0	9 28	21 44.54	-11 10.6	1.422	2.279	16.6	20.0
<b>360002</b>	2012 <i>XJ</i> <sub>115</sub>		8 22.6 350°61'	10°2/13.6	18		<b>77390</b>	2001 <i>FA</i> <sub>151</sub>		8 22.6 70°03'	3°8/26.3	18	
7 20	22 30.57	-32 24.8	1.442	2.342	14.7	19.3	7 20	22 29.59	+1 37.1	1.770	2.605	15.5	19.1
7 30	22 26.35	-34 14.1	1.397	2.338	12.1	19.1	7 30	22 24.71	+1 20.9	1.716	2.627	12.1	18.9
8 9	22 19.41	-35 53.9	1.374	2.334	10.4	19.0	8 9	22 18.02	+0 45.3	1.684	2.649	8.4	18.7
8 19	22 10.62	-37 12.2	1.373	2.331	10.5	19.0	8 19	22 10.20	-0 7.0	1.675	2.670	5.0	18.6
8 29	22 1.33	-37 59.9	1.396	2.329	12.3	19.1	8 29	22 2.18	-1 11.3	1.693	2.692	4.0	18.6
9 8	21 53.04	-38 12.8	1.439	2.327	14.9	19.3	9 8	21 54.88	-2 20.8	1.738	2.713	6.7	18.8
9 18	21 46.95	-37 52.3	1.502	2.326	17.7	19.4	9 18	21 49.10	-3 29.0	1.808	2.735	10.1	19.0
9 28	21 43.86	-37 3.0	1.581	2.326	20.1	19.6	9 28	21 45.42	-4 30.2	1.902	2.756	13.2	19.3
<b>202301</b>	2005 <i>CE</i> <sub>53</sub>		8 22.6 203°24'	1°6/21.1	18		<b>158928</b>	2004 <i>RJ</i> <sub>65</sub>		8 22.6 5°95'	2°5/25.5	18	

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>240361</b>	2003 <i>SU</i> <sub>110</sub>		8 22.6 320°99	8°3/17.4	18		<b>389733</b>	2011 <i>SR</i> <sub>108</sub>		8 22.7 32°39	0°7/23.3	18	
7 20	22 36.90	-30 22.0	1.502	2.394	14.8	19.6	7 20	22 28.05	-6 47.1	1.694	2.566	14.4	20.8
7 30	22 30.95	-31 4.3	1.436	2.378	11.8	19.4	7 30	22 23.81	-7 23.0	1.630	2.571	10.7	20.6
8 9	22 22.15	-31 38.0	1.391	2.362	9.2	19.2	8 9	22 17.63	-8 13.0	1.588	2.575	6.6	20.4
8 19	22 11.40	-31 53.8	1.369	2.347	8.3	19.1	8 19	22 10.15	-9 12.6	1.571	2.580	2.1	20.1
8 29	22 0.09	-31 44.5	1.371	2.332	9.9	19.2	8 29	22 2.32	-10 15.6	1.580	2.586	2.7	20.1
9 8	21 49.78	-31 7.4	1.397	2.318	13.0	19.3	9 8	21 55.15	-11 15.3	1.616	2.591	7.1	20.4
9 18	21 41.75	-30 4.4	1.444	2.305	16.3	19.5	9 18	21 49.50	-12 6.2	1.677	2.597	11.1	20.7
9 28	21 36.85	-28 40.2	1.510	2.292	19.4	19.7	9 28	21 46.03	-12 44.5	1.760	2.603	14.5	20.9
<b>522622</b>	2016 <i>FK</i> <sub>66</sub>		8 22.7 78°66	4°5/19.7	17		<b>91910</b>	1999 <i>VD</i> <sub>29</sub>		8 22.7 334°95	0°7/22.0	18	
7 20	22 34.89	-19 17.3	1.347	2.245	15.7	21.4	7 20	22 27.40	-11 39.3	1.793	2.676	13.2	19.4
7 30	22 29.31	-20 10.3	1.294	2.250	11.6	21.1	7 30	22 23.37	-12 6.1	1.717	2.666	9.7	19.1
8 9	22 21.07	-21 6.4	1.263	2.254	7.2	20.9	8 9	22 17.41	-12 42.0	1.663	2.655	5.7	18.9
8 19	22 11.08	-21 56.8	1.256	2.259	4.5	20.8	8 19	22 10.11	-13 22.7	1.635	2.645	1.5	18.6
8 29	22 0.70	-22 33.2	1.273	2.264	6.6	20.9	8 29	22 2.37	-14 2.8	1.633	2.636	3.2	18.7
9 8	21 51.37	-22 50.3	1.315	2.269	10.8	21.2	9 8	21 55.16	-14 36.8	1.657	2.628	7.4	18.9
9 18	21 44.26	-22 46.4	1.379	2.273	14.9	21.4	9 18	21 49.39	-15 1.0	1.706	2.620	11.3	19.2
9 28	21 40.14	-22 23.0	1.462	2.278	18.3	21.7	9 28	21 45.75	-15 12.6	1.776	2.612	14.7	19.4
<b>326056</b>	2011 <i>AO</i> <sub>16</sub>		8 22.7 257°44	3°2/18.5	18		<b>485179</b>	2010 <i>SS</i> <sub>35</sub>		8 22.7 161°86	15°4/7.4	18	
7 20	22 26.71	-18 46.4	2.498	3.381	9.9	20.2	7 20	22 29.08	+26 30.1	1.196	1.921	27.2	21.0
7 30	22 22.45	-20 6.6	2.422	3.371	7.2	20.0	7 30	22 25.59	+26 49.8	1.127	1.923	24.7	20.8
8 9	22 16.68	-21 30.7	2.373	3.361	4.6	19.8	8 9	22 19.19	+26 19.0	1.068	1.925	21.8	20.6
8 19	22 9.88	-22 52.9	2.352	3.351	3.2	19.7	8 19	22 10.68	+24 49.7	1.024	1.926	18.8	20.4
8 29	22 2.70	-24 7.3	2.359	3.341	4.8	19.8	8 29	22 1.39	+22 20.0	0.998	1.927	16.4	20.3
9 8	21 55.88	-25 9.0	2.394	3.330	7.6	20.0	9 8	21 52.97	+18 58.9	0.992	1.928	15.4	20.3
9 18	21 50.12	-25 55.0	2.455	3.320	10.3	20.1	9 18	21 46.81	+15 4.5	1.008	1.929	16.6	20.3
9 28	21 45.98	-26 24.0	2.539	3.309	12.7	20.3	9 28	21 43.92	+11 0.7	1.047	1.929	19.2	20.5
<b>60344</b>	2000 <i>AS</i> <sub>73</sub>		8 22.7 168°57	0°4/22.3	18		<b>346418</b>	2008 <i>SW</i> <sub>183</sub>		8 22.7 10°46	0°7/23.1	16	
7 20	22 32.44	-9 43.4	1.826	2.695	13.6	19.8	7 20	22 24.76	-7 7.6	1.112	2.013	18.1	19.9
7 30	22 26.94	-10 27.0	1.758	2.699	10.0	19.6	7 30	22 22.12	-7 41.6	1.061	2.016	13.5	19.6
8 9	22 19.45	-11 21.6	1.713	2.702	5.9	19.4	8 9	22 16.92	-8 34.9	1.028	2.021	8.2	19.4
8 19	22 10.64	-12 22.1	1.695	2.705	1.5	19.1	8 19	22 10.01	-9 41.4	1.016	2.027	2.5	19.0
8 29	22 1.43	-13 22.3	1.704	2.707	3.0	19.2	8 29	22 2.65	-10 52.0	1.028	2.034	3.5	19.1
9 8	21 52.87	-14 16.1	1.740	2.709	7.3	19.5	9 8	21 56.25	-11 56.8	1.062	2.043	9.0	19.5
9 18	21 45.85	-14 58.8	1.802	2.710	11.2	19.7	9 18	21 51.92	-12 48.3	1.118	2.053	13.9	19.8
9 28	21 41.06	-15 27.9	1.887	2.710	14.5	20.0	9 28	21 50.42	-13 21.8	1.193	2.065	18.1	20.1
<b>141986</b>	2002 <i>PX</i> <sub>136</sub>		8 22.7 330°75	2°0/23.9	18		<b>195500</b>	2002 <i>GK</i> <sub>170</sub>		8 22.7 191°22	1°3/23.9	18	
7 20	22 26.24	-5 20.7	1.140	2.032	18.4	19.5	7 20	22 31.10	-5 16.8	2.276	3.122	12.1	21.5
7 30	22 23.44	-5 33.7	1.066	2.016	14.1	19.2	7 30	22 25.66	-5 38.3	2.196	3.121	9.2	21.3
8 9	22 17.90	-6 8.1	1.011	2.000	9.0	18.8	8 9	22 18.60	-6 11.1	2.139	3.119	5.8	21.1
8 19	22 10.31	-7 0.5	0.977	1.985	3.6	18.5	8 19	22 10.43	-6 52.7	2.110	3.116	2.3	20.9
8 29	22 1.91	-8 3.8	0.965	1.971	3.7	18.4	8 29	22 1.90	-7 39.0	2.109	3.113	2.4	20.8
9 8	21 54.20	-9 8.7	0.976	1.959	9.3	18.7	9 8	21 53.83	-8 25.5	2.137	3.109	5.8	21.1
9 18	21 48.56	-10 5.9	1.008	1.947	14.7	19.0	9 18	21 46.95	-9 8.0	2.192	3.105	9.2	21.3
9 28	21 45.99	-10 48.4	1.059	1.937	19.4	19.2	9 28	21 41.85	-9 43.1	2.271	3.100	12.2	21.5
<b>470631</b>	2008 <i>SZ</i> <sub>46</sub>		8 22.7 354°03	5°5/19.7	16		<b>121328</b>	Devlynrfennell		8 22.7 226°14	1°3/23.9	18	
7 20	22 26.33	-20 47.6	0.982	1.908	17.6	20.6	7 20	22 29.81	-6 15.7	2.450	3.298	11.3	20.0
7 30	22 23.78	-21 19.0	0.928	1.897	13.1	20.3	7 30	22 24.62	-6 18.8	2.367	3.293	8.5	19.8
8 9	22 18.13	-21 51.9	0.893	1.889	8.4	20.0	8 9	22 17.94	-6 30.9	2.307	3.287	5.4	19.6
8 19	22 10.35	-22 17.0	0.878	1.882	5.5	19.8	8 19	22 10.25	-6 50.2	2.275	3.282	2.2	19.4
8 29	22 1.96	-22 25.3	0.883	1.878	7.9	20.0	8 29	22 2.23	-7 13.7	2.272	3.276	2.3	19.4
9 8	21 54.71	-22 11.2	0.910	1.876	12.6	20.2	9 8	21 54.62	-7 38.0	2.297	3.270	5.5	19.6
9 18	21 49.97	-21 34.1	0.955	1.876	17.3	20.5	9 18	21 48.10	-8 0.1	2.349	3.263	8.6	19.8
9 28	21 48.61	-20 36.0	1.017	1.878	21.4	20.7	9 28	21 43.21	-8 17.0	2.425	3.257	11.4	20.0
<b>478640</b>	2012 <i>TD</i> <sub>195</sub>		8 22.7 355°72	15°4/12.8	18		<b>232177</b>	2002 <i>ED</i> <sub>62</sub>		8 22.7 175°27	0°6/22.2	17	
7 20	22 28.19	-39 10.3	0.947	1.862	19.2	19.6	7 20	22 33.39	-11 55.4	1.871	2.743	13.2	20.8
7 30	22 25.71	-40 37.7	0.911	1.851	16.9	19.4	7 30	22 27.61	-12 12.4	1.802	2.744	9.7	20.6
8 9	22 19.47	-41 41.3	0.890	1.843	15.6	19.3	8 9	22 19.85	-12 36.8	1.755	2.745	5.8	20.4
8 19	22 10.70	-42 6.7	0.888	1.837	15.8	19.3	8 19	22 10.78	-13 4.7	1.735	2.746	1.5	20.1
8 29	22 1.45	-41 44.4	0.902	1.834	17.5	19.4	8 29	22 1.35	-13 31.3	1.743	2.746	3.0	20.2
9 8	21 53.86	-40 33.9	0.934	1.833	20.0	19.6	9 8	21 52.58	-13 52.3	1.778	2.746	7.2	20.5
9 18	21 49.42	-38 42.1	0.981	1.835	22.8	19.8	9 18	21 45.35	-14 4.5	1.838	2.746	11.0	20.7
9 28	21 48.84	-36 19.2	1.042	1.839	25.3	20.0	9 28	21 40.34	-14 6.3	1.921	2.746	14.2	20.9
<b>14681</b>	Estellechurch		8 22.7 20°25	0°3/22.9	18	R	<b>149064</b>	2002 <i>CW</i> <sub>63</sub>		8 22.7 138°98	3°6/18.9	18	
7 20	22 27.80	-9 0.0	1.707	2.585	14.0	17.9	7 20	22 30.76	-21 34.8	2.407	3.287	10.3	20.4
7 30	22 23.57	-9 19.2	1.647	2.592	10.3	17.7	7 30	22 25.32	-22 21.2	2.348	3.294	7.6	20.2
8 9	22 17.44	-9 49.4	1.610	2.599	6.2	17.5	8 9	22 18.32	-23 7.4	2.315	3.300	5.0	20.0
8 19	22 10.08	-10 26.4	1.597	2.607	1.8	17.2	8 19	22 10.34	-23 48.4	2.308	3.306	3.6	20.0
8 29	22 2.43	-11 5.3	1.611	2.616	2.7	17.3	8 29	22 2.13	-24 19.7	2.330	3.312	4.9	20.1
9 8	21 55.47	-11 40.5	1.651	2.625	7.0	17.6	9 8	21 54.48	-24 38.1	2.380	3.317	7.6	20.2
9 18	21 50.03	-12 8.0	1.715	2.635	10.9	17.9	9 18	21 48.09	-24 42.4	2.455	3.322	10.2	20.4
9 28	21 46.75	-12 24.8	1.801	2.646	14.2	18.1	9 28	21 43.48	-24 32.7	2.552	3.327	12.5	20.6
<b>322622</b>	1995 <i>XD</i> <sub>5</sub>		8 22.7 1°66	6°1/26.9	17		<b>435093</b>	2007 <i>CK</i> <sub>42</sub>		8 22.7 41°86	0°9/23.2	16	

EPHEMERIDES

8 22.7

8 22.7

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>333163</b>	2012 <i>CY</i>		8 22.7 136°00	0°6/23.1	17		<b>220529</b>	2004 <i>FG</i> <sub>18</sub>		8 22.7 140°24	0°7/23.2	17	
7 20	22 32.71	- 7 34.5	1.441	2.316	16.2	21.6	7 20	22 33.25	- 7 25.9	1.826	2.688	14.0	21.4
7 30	22 27.57	- 8 2.7	1.377	2.320	12.1	21.4	7 30	22 27.49	- 7 53.3	1.763	2.698	10.4	21.1
8 9	22 20.04	- 8 46.0	1.335	2.323	7.4	21.1	8 9	22 19.78	- 8 32.8	1.722	2.707	6.3	20.9
8 19	22 10.87	- 9 39.4	1.316	2.326	2.3	20.8	8 19	22 10.81	- 9 20.1	1.707	2.716	2.0	20.7
8 29	22 1.24	-10 36.2	1.323	2.329	3.2	20.9	8 29	22 1.51	-10 10.0	1.719	2.724	2.7	20.7
9 8	21 52.43	-11 28.9	1.356	2.331	8.2	21.2	9 8	21 52.91	-10 56.7	1.760	2.732	6.9	21.0
9 18	21 45.51	-12 11.7	1.413	2.334	12.7	21.4	9 18	21 45.88	-11 35.8	1.826	2.739	10.7	21.3
9 28	21 41.28	-12 40.7	1.491	2.336	16.6	21.7	9 28	21 41.06	-12 4.1	1.915	2.746	14.0	21.5
<b>234346</b>	2001 <i>FK</i> <sub>120</sub>		8 22.7 93°66	4°7/19.2	16		<b>523237</b>	2016 <i>YA</i> <sub>14</sub>		8 22.7 287°93	3°3/19.6	18	
7 20	22 36.89	-23 55.8	1.877	2.759	12.7	20.4	7 20	22 30.76	-20 36.2	2.243	3.126	10.9	21.2
7 30	22 30.05	-24 29.1	1.830	2.774	9.5	20.3	7 30	22 25.52	-21 9.9	2.171	3.119	8.0	21.0
8 9	22 21.19	-24 59.1	1.806	2.789	6.4	20.1	8 9	22 18.56	-21 44.1	2.124	3.112	5.1	20.8
8 19	22 11.12	-25 19.8	1.808	2.803	4.7	20.0	8 19	22 10.48	-22 14.1	2.104	3.105	3.3	20.7
8 29	22 0.91	-25 26.4	1.838	2.818	6.2	20.2	8 29	22 2.06	-22 35.3	2.111	3.098	4.8	20.8
9 8	21 51.65	-25 16.7	1.895	2.832	9.2	20.4	9 8	21 54.18	-22 44.4	2.145	3.091	7.7	21.0
9 18	21 44.20	-24 50.9	1.976	2.846	12.2	20.6	9 18	21 47.60	-22 40.0	2.205	3.084	10.7	21.1
9 28	21 39.14	-24 10.9	2.078	2.859	14.8	20.8	9 28	21 42.93	-22 22.1	2.287	3.078	13.3	21.3
<b>130233</b>	2000 <i>CJ</i> <sub>8</sub>		8 22.7 42°21	8°8/14.1	17		<b>45436</b>	2000 <i>AD</i> <sub>176</sub>		8 22.7 131°74	1°9/20.6	18	R
7 20	22 28.19	-17 0.9	0.938	1.861	18.5	18.9	7 20	22 29.72	-13 18.0	2.169	3.044	11.6	19.2
7 30	22 25.44	-21 15.3	0.896	1.865	13.5	18.6	7 30	22 24.70	-14 32.2	2.110	3.056	8.4	19.0
8 9	22 19.35	-25 45.5	0.878	1.869	9.5	18.4	8 9	22 18.04	-15 53.5	2.076	3.067	4.9	18.8
8 19	22 10.79	-30 3.5	0.884	1.874	9.5	18.4	8 19	22 10.33	-17 16.0	2.069	3.078	2.0	18.7
8 29	22 1.38	-33 41.6	0.915	1.879	13.2	18.6	8 29	22 2.34	-18 33.1	2.092	3.088	3.7	18.8
9 8	21 53.06	-36 23.1	0.968	1.884	17.9	18.9	9 8	21 54.90	-19 39.4	2.143	3.098	7.1	19.0
9 18	21 47.45	-38 4.9	1.038	1.889	22.0	19.2	9 18	21 48.75	-20 31.1	2.219	3.108	10.3	19.3
9 28	21 45.60	-38 52.8	1.123	1.895	25.3	19.5	9 28	21 44.45	-21 6.8	2.319	3.117	13.0	19.5
<b>478618</b>	2012 <i>TU</i> <sub>162</sub>		8 22.7 249°98	8°0/15.9	18		<b>391590</b>	2007 <i>TR</i> <sub>428</sub>		8 22.7 302°53	3°3/20.1	18	
7 20	22 36.64	-32 18.8	1.889	2.768	12.8	20.9	7 20	22 31.95	-18 34.4	1.799	2.687	12.9	20.9
7 30	22 30.30	-33 22.7	1.829	2.760	10.3	20.8	7 30	22 26.74	-19 11.7	1.730	2.681	9.5	20.7
8 9	22 21.59	-34 18.1	1.793	2.752	8.5	20.6	8 9	22 19.44	-19 51.9	1.685	2.676	5.8	20.4
8 19	22 11.31	-34 56.7	1.781	2.744	8.1	20.6	8 19	22 10.75	-20 29.1	1.665	2.670	3.3	20.3
8 29	22 0.62	-35 12.1	1.795	2.735	9.6	20.7	8 29	22 1.63	-20 57.4	1.673	2.665	5.1	20.4
9 8	21 50.76	-35 1.7	1.834	2.727	12.0	20.8	9 8	21 53.19	-21 12.4	1.706	2.660	8.7	20.6
9 18	21 42.81	-34 26.5	1.894	2.718	14.6	21.0	9 18	21 46.36	-21 12.0	1.763	2.655	12.3	20.8
9 28	21 37.49	-33 30.0	1.974	2.709	16.9	21.1	9 28	21 41.85	-20 56.3	1.842	2.650	15.4	21.0
<b>346103</b>	2007 <i>VW</i> <sub>63</sub>		8 22.7 313°03	8°9/14.4	18		<b>186319</b>	2002 <i>CS</i> <sub>267</sub>		8 22.7 33°86	0°5/22.3	18	
7 20	22 31.46	-31 31.7	1.659	2.553	13.5	20.0	7 20	22 30.66	-11 53.6	1.811	2.689	13.3	19.7
7 30	22 26.86	-33 4.1	1.598	2.538	11.0	19.8	7 30	22 25.58	-12 4.0	1.753	2.698	9.8	19.5
8 9	22 19.74	-34 29.7	1.560	2.523	9.2	19.7	8 9	22 18.63	-12 21.7	1.718	2.708	5.8	19.3
8 19	22 10.85	-35 38.4	1.546	2.508	9.1	19.7	8 19	22 10.50	-12 42.9	1.707	2.718	1.5	19.0
8 29	22 1.36	-36 21.6	1.556	2.494	10.9	19.7	8 29	22 2.11	-13 3.2	1.724	2.728	2.9	19.2
9 8	21 52.64	-36 34.8	1.588	2.481	13.5	19.9	9 8	21 54.45	-13 18.4	1.768	2.739	7.0	19.4
9 18	21 45.84	-36 18.2	1.641	2.467	16.4	20.0	9 18	21 48.32	-13 25.9	1.837	2.750	10.7	19.7
9 28	21 41.82	-35 34.9	1.711	2.454	18.9	20.2	9 28	21 44.34	-13 23.8	1.928	2.762	13.8	19.9
<b>7515</b>	Marrucino		8 22.7 82°33	0°1/22.7	18		<b>375169</b>	2008 <i>CG</i> <sub>213</sub>		8 22.7 137°79	2°6/24.6	17	
7 20	22 31.89	- 9 2.9	1.484	2.363	15.6	17.3	7 20	22 33.73	- 3 48.3	1.607	2.463	15.8	20.8
7 30	22 26.94	- 9 32.2	1.420	2.365	11.6	17.0	7 30	22 28.11	- 3 48.6	1.541	2.468	12.1	20.6
8 9	22 19.66	-10 14.6	1.377	2.367	7.0	16.8	8 9	22 20.29	- 4 4.5	1.495	2.473	7.9	20.4
8 19	22 10.80	-11 5.2	1.359	2.369	1.9	16.5	8 19	22 10.98	- 4 33.8	1.474	2.478	3.8	20.2
8 29	22 1.49	-11 57.2	1.366	2.371	3.2	16.6	8 29	22 1.26	- 5 11.8	1.480	2.483	3.4	20.2
9 8	21 52.97	-12 43.7	1.399	2.373	8.1	16.9	9 8	21 52.29	- 5 52.9	1.511	2.487	7.4	20.4
9 18	21 46.28	-13 19.6	1.456	2.375	12.6	17.1	9 18	21 45.05	- 6 31.3	1.568	2.492	11.5	20.7
9 28	21 42.19	-13 41.7	1.534	2.377	16.3	17.4	9 28	21 40.29	- 7 2.6	1.647	2.495	15.1	20.9
<b>277589</b>	2006 <i>AX</i> <sub>9</sub>		8 22.7 132°45	3°9/26.1	18		<b>26246</b>	Mikelake		8 22.7 339°98	0°8/23.2	18	
7 20	22 31.27	+ 1 1.0	1.896	2.726	14.8	20.4	7 20	22 25.79	- 7 11.3	1.126	2.025	18.1	17.9
7 30	22 26.01	+ 1 1.8	1.826	2.733	11.7	20.2	7 30	22 23.11	- 7 37.3	1.058	2.012	13.6	17.6
8 9	22 18.91	+ 0 45.2	1.777	2.741	8.2	20.0	8 9	22 17.73	- 8 23.3	1.009	2.001	8.4	17.3
8 19	22 10.57	+ 0 12.6	1.754	2.748	5.0	19.8	8 19	22 10.36	- 9 24.5	0.980	1.990	2.7	16.9
8 29	22 1.89	- 0 32.5	1.757	2.754	4.1	19.8	8 29	22 2.27	-10 32.4	0.975	1.981	3.6	17.0
9 8	21 53.81	- 1 24.8	1.787	2.761	6.7	20.0	9 8	21 54.95	-11 37.0	0.992	1.973	9.4	17.3
9 18	21 47.16	- 2 18.4	1.844	2.767	10.1	20.2	9 18	21 49.71	-12 29.9	1.030	1.966	14.8	17.6
9 28	21 42.59	- 3 8.1	1.924	2.772	13.2	20.4	9 28	21 47.51	-13 5.2	1.087	1.961	19.3	17.8
<b>152803</b>	1999 <i>TN</i> <sub>166</sub>		8 22.7 308°08	0°8/22.1	18		<b>445837</b>	2012 <i>DO</i> <sub>7</sub>		8 22.7 257°08	2°2/20.7	18	
7 20	22 31.55	-13 21.7	2.002	2.877	12.4	19.7	7 20	22 31.77	-17 47.8	2.384	3.259	10.6	21.0
7 30	22 26.28	-13 25.7	1.919	2.863	9.1	19.5	7 30	22 26.19	-18 9.3	2.304	3.248	7.8	20.8
8 9	22 19.12	-13 35.1	1.859	2.849	5.4	19.3	8 9	22 18.96	-18 32.9	2.248	3.237	4.7	20.6
8 19	22 10.65	-13 46.6	1.826	2.836	1.5	19.0	8 19	22 10.62	-18 54.6	2.220	3.226	2.3	20.4
8 29	22 1.72	-13 56.3	1.820	2.823	3.0	19.1	8 29	22 1.93	-19 10.6	2.220	3.215	3.7	20.5
9 8	21 53.31	-14 0.8	1.841	2.810	7.0	19.3	9 8	21 53.71	-19 17.6	2.248	3.203	6.9	20.7
9 18	21 46.28	-13 57.5	1.888	2.797	10.7	19.5	9 18	21 46.70	-19 14.2	2.303	3.191	9.9	20.9
9 28	21 41.32	-13 45.1	1.958	2.785	13.9	19.7	9 28	21 41.49	-18 59.6	2.381	3.179	12.6	21.0
<b>3513</b>	Quqinyue		8 22.7 13°05	0°2/22.8	18	R	<b>333154</b>	2012 <i>BK</i> <sub>55</sub>		8 22.7 187°12	1°8/20.5	1	

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>517865</b>	2015 <i>RZ</i> <sub>244</sub>		8 22.7 321°07	7°6/15.4	18		<b>390513</b>	2014 <i>BJ</i> <sub>62</sub>		8 22.7 192°71	4°4/27.3	18	
7 20	22 31.48	-31 35.5	1.962	2.849	12.1	20.6	7 20	22 28.85	+ 4 33.0	2.124	2.934	14.1	21.4
7 30	22 26.47	-32 43.5	1.902	2.837	9.7	20.4	7 30	22 24.19	+ 4 16.6	2.042	2.933	11.4	21.2
8 9	22 19.33	-33 44.4	1.864	2.826	8.0	20.3	8 9	22 17.84	+ 3 40.7	1.980	2.932	8.3	21.0
8 19	22 10.75	-34 30.4	1.851	2.815	7.8	20.2	8 19	22 10.35	+ 2 46.7	1.944	2.930	5.5	20.8
8 29	22 1.75	-34 55.4	1.864	2.805	9.2	20.3	8 29	22 2.47	+ 1 37.9	1.935	2.927	4.5	20.8
9 8	21 53.45	-34 56.1	1.900	2.795	11.6	20.4	9 8	21 55.03	+ 0 20.1	1.953	2.925	6.4	20.9
9 18	21 46.80	-34 32.8	1.959	2.785	14.1	20.6	9 18	21 48.80	- 1 0.2	1.998	2.921	9.4	21.1
9 28	21 42.52	-33 48.1	2.036	2.775	16.4	20.7	9 28	21 44.40	- 2 16.9	2.068	2.918	12.4	21.2
<b>57650</b>	2001 <i>TH</i> <sub>217</sub>		8 22.7 326°31	3°8/24.9	18		<b>162892</b>	2001 <i>GW</i> <sub>1</sub>		8 22.7 356°70	2°4/24.9	18	
7 20	22 26.95	- 3 7.6	1.196	2.078	18.4	18.2	7 20	22 28.40	- 2 23.4	1.789	2.642	14.6	19.8
7 30	22 24.02	- 2 52.1	1.114	2.055	14.5	17.9	7 30	22 24.08	- 2 46.1	1.716	2.642	11.2	19.6
8 9	22 18.36	- 2 56.9	1.049	2.032	9.8	17.6	8 9	22 17.87	- 3 25.8	1.665	2.642	7.4	19.4
8 19	22 10.60	- 3 21.5	1.006	2.010	5.2	17.3	8 19	22 10.37	- 4 19.7	1.638	2.641	3.6	19.1
8 29	22 1.90	- 4 1.9	0.985	1.989	4.5	17.2	8 29	22 2.45	- 5 22.5	1.638	2.641	3.1	19.1
9 8	21 53.75	- 4 50.8	0.987	1.969	9.2	17.4	9 8	21 55.10	- 6 27.9	1.664	2.641	6.7	19.3
9 18	21 47.54	- 5 40.0	1.009	1.950	14.4	17.6	9 18	21 49.18	- 7 29.6	1.716	2.641	10.6	19.6
9 28	21 44.39	- 6 21.5	1.051	1.933	19.2	17.8	9 28	21 45.35	- 8 22.4	1.791	2.642	14.0	19.8
<b>180165</b>	2003 <i>HX</i> <sub>6</sub>		8 22.7 132°49	4°2/18.9	18		<b>290</b>	Bruna		8 22.7 219°53	9°0/15.5	18	R
7 20	22 31.99	-22 49.4	2.126	3.010	11.4	20.4	7 20	22 45.20	-36 34.1	2.026	2.883	13.0	16.6
7 30	22 26.47	-23 31.5	2.065	3.011	8.4	20.3	7 30	22 36.61	-37 33.6	1.962	2.873	10.9	16.4
8 9	22 19.16	-24 12.5	2.027	3.012	5.6	20.1	8 9	22 25.39	-38 20.9	1.922	2.862	9.3	16.3
8 19	22 10.68	-24 46.8	2.017	3.012	4.2	20.0	8 19	22 12.43	-38 47.3	1.907	2.849	9.1	16.3
8 29	22 1.92	-25 9.4	2.033	3.013	5.7	20.1	8 29	21 59.02	-38 46.6	1.918	2.837	10.3	16.3
9 8	21 53.80	-25 17.2	2.077	3.014	8.5	20.3	9 8	21 46.61	-38 17.0	1.955	2.823	12.5	16.5
9 18	21 47.12	-25 9.2	2.145	3.014	11.4	20.5	9 18	21 36.36	-37 21.1	2.014	2.808	14.9	16.6
9 28	21 42.49	-24 46.1	2.235	3.015	13.9	20.6	9 28	21 29.04	-36 4.0	2.093	2.793	17.1	16.7
<b>45347</b>	2000 <i>AS</i> <sub>91</sub>		8 22.7 95°11	1°6/24.3	18		<b>113618</b>	2002 <i>TZ</i> <sub>58</sub>		8 22.7 280°69	7°4/29.5	18	
7 20	22 28.74	- 5 16.9	2.380	3.229	11.6	19.1	7 20	22 28.19	+10 28.7	2.009	2.791	15.8	19.6
7 30	22 23.86	- 5 21.7	2.306	3.232	8.8	19.0	7 30	22 23.94	+10 51.5	1.915	2.776	13.4	19.4
8 9	22 17.53	- 5 36.6	2.256	3.234	5.6	18.8	8 9	22 17.84	+10 52.1	1.840	2.761	10.8	19.2
8 19	22 10.23	- 5 59.5	2.232	3.237	2.5	18.6	8 19	22 10.39	+10 29.0	1.788	2.745	8.5	19.0
8 29	22 2.66	- 6 27.4	2.236	3.240	2.3	18.6	8 29	22 2.38	+ 9 42.9	1.761	2.730	7.4	18.9
9 8	21 55.55	- 6 56.5	2.269	3.243	5.4	18.8	9 8	21 54.73	+ 8 37.9	1.759	2.715	8.3	19.0
9 18	21 49.55	- 7 23.5	2.328	3.246	8.5	19.0	9 18	21 48.31	+ 7 20.4	1.782	2.700	10.7	19.1
9 28	21 45.18	- 7 45.4	2.412	3.249	11.3	19.2	9 28	21 43.85	+ 5 58.1	1.829	2.684	13.5	19.2
<b>218092</b>	2002 <i>JQ</i> <sub>19</sub>		8 22.7 176°39	2°1/25.1	18		<b>507216</b>	2010 <i>VF</i> <sub>81</sub>		8 22.7 59°14	6°8/18.1	17	
7 20	22 26.43	- 1 44.9	2.394	3.232	11.9	20.2	7 20	22 35.09	-24 7.9	1.304	2.206	15.8	20.4
7 30	22 22.21	- 2 15.9	2.315	3.233	9.1	20.0	7 30	22 29.60	-25 20.0	1.261	2.215	11.9	20.2
8 9	22 16.57	- 3 0.6	2.260	3.233	6.1	19.8	8 9	22 21.34	-26 29.4	1.239	2.224	8.3	20.0
8 19	22 9.98	- 3 56.6	2.231	3.233	3.0	19.6	8 19	22 11.32	-27 25.8	1.240	2.233	6.8	19.9
8 29	22 3.09	- 4 59.7	2.230	3.233	2.5	19.6	8 29	22 0.98	-28 0.4	1.266	2.242	8.8	20.1
9 8	21 56.60	- 6 5.1	2.258	3.233	5.4	19.8	9 8	21 51.83	-28 8.7	1.315	2.252	12.4	20.3
9 18	21 51.15	- 7 7.8	2.313	3.233	8.5	20.0	9 18	21 45.05	-27 51.3	1.385	2.261	16.0	20.5
9 28	21 47.28	- 8 3.7	2.392	3.233	11.3	20.1	9 28	21 41.34	-27 11.4	1.473	2.271	19.1	20.8
<b>95230</b>	2002 <i>CK</i> <sub>30</sub>		8 22.7 51°70	4°5/18.9	18		<b>469254</b>	2016 <i>JU</i> <sub>26</sub>		8 22.7 39°87	3°7/25.4	17	
7 20	22 30.52	-19 1.9	1.513	2.412	14.3	18.7	7 20	22 29.62	- 1 3.1	1.169	2.042	19.4	20.6
7 30	22 25.91	-20 21.0	1.464	2.420	10.4	18.5	7 30	22 25.59	- 1 14.1	1.119	2.054	15.0	20.3
8 9	22 19.03	-21 43.7	1.438	2.429	6.6	18.3	8 9	22 18.98	- 1 49.7	1.087	2.066	10.1	20.1
8 19	22 10.67	-23 1.0	1.437	2.438	4.5	18.2	8 19	22 10.70	- 2 46.3	1.077	2.080	5.3	19.9
8 29	22 1.96	-24 4.2	1.461	2.447	6.6	18.4	8 29	22 2.02	- 3 56.6	1.090	2.093	4.3	19.9
9 8	21 54.13	-24 47.4	1.510	2.457	10.3	18.6	9 8	21 54.36	- 5 10.8	1.126	2.108	8.5	20.2
9 18	21 48.17	-25 8.1	1.582	2.466	13.9	18.9	9 18	21 48.84	- 6 19.9	1.185	2.122	13.1	20.5
9 28	21 44.75	-25 7.1	1.673	2.476	16.9	19.1	9 28	21 46.18	- 7 16.8	1.265	2.138	17.2	20.8
<b>512627</b>	2016 <i>TP</i> <sub>43</sub>		8 22.7 270°74	1°2/23.8	18		<b>523709</b>	2014 <i>JD</i> <sub>80</sub>		8 22.7 346°51	1°2/12.9	17	
7 20	22 29.09	- 5 48.7	1.887	2.749	13.6	21.7	7 20	22 13.10	-36 43.0	18.481	19.337	1.7	22.2
7 30	22 24.56	- 6 13.5	1.808	2.741	10.3	21.4	7 30	22 11.61	-36 59.7	18.429	19.334	1.4	22.1
8 9	22 18.16	- 6 51.8	1.751	2.734	6.5	21.2	8 9	22 9.93	-37 14.9	18.403	19.330	1.2	22.1
8 19	22 10.44	- 7 40.5	1.719	2.727	2.4	20.9	8 19	22 8.14	-37 28.2	18.404	19.326	1.3	22.1
8 29	22 2.27	- 8 34.6	1.714	2.719	2.6	20.9	8 29	22 6.32	-37 39.1	18.432	19.323	1.4	22.2
9 8	21 54.60	- 9 28.3	1.737	2.712	6.7	21.2	9 8	22 4.54	-37 47.4	18.486	19.319	1.7	22.2
9 18	21 48.30	-10 16.3	1.785	2.704	10.6	21.4	9 18	22 2.89	-37 52.7	18.565	19.316	2.0	22.2
9 28	21 44.05	-10 54.6	1.855	2.697	14.0	21.6	9 28	22 1.45	-37 55.1	18.666	19.313	2.3	22.2
<b>504849</b>	2010 <i>SA</i> <sub>4</sub>		8 22.7 283°41	3°9/25.2	18		<b>204662</b>	2006 <i>CA</i> <sub>22</sub>		8 22.7 218°64	2°0/21.3	17	
7 20	22 31.91	- 1 40.7	1.409	2.268	17.5	21.5	7 20	22 34.98	-13 35.6	1.488	2.373	15.3	20.8
7 30	22 27.30	- 1 29.8	1.328	2.255	13.7	21.3	7 30	22 29.39	-14 19.1	1.418	2.368	11.3	20.5
8 9	22 20.12	- 1 38.4	1.266	2.241	9.4	21.0	8 9	22 21.27	-15 12.2	1.370	2.362	6.7	20.3
8 19	22 11.05	- 2 5.7	1.227	2.228	5.2	20.7	8 19	22 11.35	-16 8.2	1.346	2.356	2.3	20.0
8 29	22 1.20	- 2 47.8	1.212	2.214	4.5	20.6	8 29	22 0.84	-16 59.3	1.349	2.349	4.5	20.1
9 8	21 51.94	- 3 38.0	1.223	2.201	8.5	20.8	9 8	21 51.10	-17 38.7	1.377	2.342	9.3	20.4
9 18	21 44.51	- 4 29.1	1.256	2.187	13.1	21.1	9 18	21 43.28	-18 2.2	1.430	2.335	13.7	20.6
9 28	21 39.85	- 5 14.2	1.311	2.174	17.3	21.3	9 28	21 38.26	-18 8.4	1.502	2.327	17.5	20.8
<b>103511</b>	2000 <i>BW</i> <sub>2</sub>		8 22.7 134°18	0°2/22.6	18		<b>188900</b>	2007 <i>AL</i> <sub>8</sub>					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>492330</b>	2014 DA <sub>22</sub>		8 22.7 348°77	12°1/ 4.9	17		<b>387488</b>	1994 AY <sub>13</sub>		8 22.7 168°83	2°0/20.8	17	
7 20	22 17.03	+23 37.8	0.851	1.652	30.5	20.7	7 20	22 31.68	-14 23.3	2.010	2.887	12.2	21.4
7 30	22 17.22	+22 37.4	0.781	1.645	27.2	20.4	7 30	22 26.34	-15 19.9	1.944	2.890	8.9	21.2
8 9	22 14.51	+20 21.1	0.721	1.639	22.9	20.1	8 9	22 19.17	-16 23.0	1.902	2.893	5.2	20.9
8 19	22 9.58	+16 38.4	0.675	1.634	17.9	19.7	8 19	22 10.77	-17 27.0	1.887	2.896	2.2	20.7
8 29	22 3.81	+11 32.9	0.649	1.630	13.4	19.5	8 29	22 2.02	-18 25.7	1.901	2.898	3.9	20.9
9 8	21 58.93	+ 5 30.9	0.645	1.628	12.4	19.4	9 8	21 53.86	-19 13.8	1.942	2.899	7.6	21.1
9 18	21 56.44	- 0 44.5	0.665	1.627	16.0	19.6	9 18	21 47.12	-19 47.8	2.008	2.900	11.0	21.3
9 28	21 57.44	- 6 28.5	0.708	1.628	21.3	20.0	9 28	21 42.42	-20 6.4	2.097	2.901	13.9	21.5
<b>69523</b>	1997 GH <sub>7</sub>		8 22.7 178°03	1°7/21.2	18		<b>311988</b>	2007 GP <sub>4</sub>		8 22.7 158°97	8°6/10.5	18	
7 20	22 30.77	-13 39.3	1.905	2.784	12.7	19.5	7 20	22 37.18	-46 2.5	3.055	3.878	9.9	21.8
7 30	22 25.74	-14 23.5	1.837	2.785	9.3	19.3	7 30	22 30.13	-47 12.1	3.024	3.885	9.0	21.8
8 9	22 18.83	-15 15.0	1.793	2.785	5.4	19.0	8 9	22 21.28	-48 7.7	3.016	3.891	8.6	21.7
8 19	22 10.65	-16 8.4	1.776	2.785	1.9	18.8	8 19	22 11.32	-48 44.1	3.034	3.897	8.8	21.8
8 29	22 2.10	-16 57.7	1.786	2.785	3.7	18.9	8 29	22 1.15	-48 58.0	3.075	3.902	9.6	21.8
9 8	21 54.16	-17 37.8	1.822	2.785	7.6	19.2	9 8	21 51.70	-48 48.7	3.139	3.907	10.7	21.9
9 18	21 47.67	-18 5.1	1.884	2.785	11.2	19.4	9 18	21 43.78	-48 17.8	3.223	3.911	11.8	22.0
9 28	21 43.30	-18 18.1	1.969	2.784	14.3	19.6	9 28	21 37.95	-47 28.5	3.325	3.915	12.9	22.1
<b>358892</b>	2008 GA <sub>41</sub>		8 22.7 60°07	9°0/14.5	18		<b>128888</b>	2004 SY <sub>58</sub>		8 22.7 245°57	3°3/26.3	18	
7 20	22 35.61	-37 21.0	2.026	2.896	12.4	20.0	7 20	22 28.41	+ 2 48.7	2.032	2.855	14.2	20.4
7 30	22 29.28	-38 28.6	1.995	2.911	10.5	19.9	7 30	22 24.06	+ 2 0.4	1.937	2.841	11.3	20.2
8 9	22 20.84	-39 22.8	1.988	2.926	9.2	19.8	8 9	22 17.92	+ 0 50.2	1.864	2.827	7.9	20.0
8 19	22 11.16	-39 56.4	2.005	2.941	9.1	19.9	8 19	22 10.47	+ 0 39.6	1.816	2.812	4.6	19.7
8 29	22 1.35	-40 4.9	2.047	2.956	10.2	20.0	8 29	22 2.49	- 2 23.7	1.796	2.797	3.5	19.6
9 8	21 52.57	-39 47.3	2.112	2.972	12.0	20.1	9 8	21 54.88	- 4 14.7	1.805	2.781	6.4	19.8
9 18	21 45.68	-39 6.0	2.198	2.987	13.9	20.3	9 18	21 48.47	- 6 4.2	1.842	2.765	10.1	20.0
9 28	21 41.26	-38 5.1	2.303	3.003	15.7	20.5	9 28	21 43.97	- 7 44.9	1.903	2.749	13.5	20.2
<b>335506</b>	2005 YR <sub>93</sub>		8 22.7 249°51	6°3/27.7	18		<b>201039</b>	2002 ES <sub>5</sub>		8 22.7 279°33	0°4/23.4	17	
7 20	22 31.13	+ 5 31.8	1.795	2.608	16.2	20.8	7 20	22 21.30	- 7 50.0	4.366	5.214	6.7	20.4
7 30	22 26.20	+ 5 59.5	1.713	2.602	13.3	20.6	7 30	22 17.96	- 8 16.1	4.279	5.208	5.0	20.3
8 9	22 19.22	+ 6 6.8	1.652	2.596	10.2	20.4	8 9	22 13.87	- 8 47.2	4.218	5.201	3.0	20.1
8 19	22 10.79	+ 5 52.8	1.613	2.591	7.4	20.2	8 19	22 9.29	- 9 21.9	4.186	5.195	1.0	19.9
8 29	22 1.82	+ 5 19.2	1.600	2.585	6.3	20.2	8 29	22 4.55	- 9 58.1	4.184	5.188	1.2	20.0
9 8	21 53.36	+ 4 30.5	1.613	2.579	8.0	20.3	9 8	22 0.01	-10 33.6	4.211	5.182	3.3	20.1
9 18	21 46.35	+ 3 33.1	1.650	2.573	11.1	20.4	9 18	21 55.98	-11 6.4	4.267	5.176	5.2	20.3
9 28	21 41.56	+ 2 34.0	1.711	2.567	14.3	20.6	9 28	21 52.78	-11 34.8	4.349	5.169	7.0	20.4
<b>270948</b>	2002 VU <sub>45</sub>		8 22.7 280°85	0°9/22.1	18		<b>28171</b>	Diannahu		8 22.7 277°47	0°6/22.3	18	
7 20	22 32.10	-11 25.9	1.556	2.438	14.9	21.5	7 20	22 32.48	-10 54.9	1.619	2.497	14.6	19.0
7 30	22 27.31	-11 56.7	1.472	2.420	11.1	21.2	7 30	22 27.54	-11 21.2	1.532	2.478	10.9	18.7
8 9	22 20.09	-12 39.0	1.410	2.401	6.6	20.9	8 9	22 20.22	-11 58.7	1.468	2.458	6.5	18.4
8 19	22 11.07	-13 27.7	1.372	2.383	1.8	20.6	8 19	22 11.15	-12 43.0	1.428	2.438	1.8	18.0
8 29	22 1.33	-14 16.1	1.361	2.364	3.7	20.7	8 29	22 1.35	-13 27.7	1.414	2.418	3.4	18.1
9 8	21 52.12	-14 57.4	1.375	2.345	8.7	20.9	9 8	21 52.05	-14 6.6	1.427	2.398	8.3	18.3
9 18	21 44.63	-15 26.5	1.413	2.326	13.3	21.2	9 18	21 44.40	-14 34.7	1.463	2.377	12.9	18.6
9 28	21 39.76	-15 40.5	1.471	2.307	17.2	21.4	9 28	21 39.29	-14 49.0	1.521	2.356	16.8	18.8
<b>53618</b>	2000 CJ <sub>92</sub>		8 22.7 125°66	0°3/22.5	18		<b>434598</b>	2005 US <sub>272</sub>		8 22.7 338°49	6°2/18.1	18	
7 20	22 32.21	- 8 53.8	1.789	2.658	13.9	19.6	7 20	22 30.32	-22 6.3	1.309	2.217	15.4	20.4
7 30	22 26.79	- 9 45.0	1.730	2.671	10.2	19.4	7 30	22 26.30	-23 20.9	1.251	2.209	11.5	20.1
8 9	22 19.43	-10 47.8	1.695	2.683	6.0	19.2	8 9	22 19.57	-24 37.4	1.213	2.202	7.8	19.9
8 19	22 10.81	-11 56.9	1.685	2.695	1.6	18.9	8 19	22 10.96	-25 45.6	1.199	2.196	6.2	19.8
8 29	22 1.89	-13 5.5	1.703	2.707	3.0	19.0	8 29	22 1.76	-26 35.5	1.209	2.190	8.4	19.9
9 8	21 53.69	-14 7.0	1.749	2.718	7.2	19.3	9 8	21 53.47	-27 0.6	1.241	2.185	12.3	20.1
9 18	21 47.06	-14 56.9	1.820	2.728	11.0	19.6	9 18	21 47.31	-26 59.0	1.294	2.180	16.2	20.3
9 28	21 42.64	-15 32.2	1.913	2.738	14.3	19.8	9 28	21 44.12	-26 32.4	1.365	2.176	19.6	20.6
<b>281543</b>	2008 UE <sub>27</sub>		8 22.7 24°49	0°1/22.8	16		<b>223968</b>	2004 XQ <sub>122</sub>		8 22.7 248°52	0°4/22.3	18	
7 20	22 28.90	- 8 57.6	1.334	2.223	16.4	20.2	7 20	22 27.79	-10 42.6	2.692	3.554	10.0	21.0
7 30	22 24.87	- 9 27.9	1.280	2.231	12.1	20.0	7 30	22 23.17	-11 15.5	2.603	3.541	7.3	20.9
8 9	22 18.50	-10 12.2	1.247	2.239	7.3	19.8	8 9	22 17.18	-11 55.6	2.539	3.527	4.4	20.6
8 19	22 10.58	-11 5.2	1.237	2.247	2.0	19.5	8 19	22 10.25	-12 39.6	2.503	3.513	1.2	20.4
8 29	22 2.29	-11 59.4	1.251	2.257	3.3	19.6	8 29	22 2.96	-13 23.8	2.495	3.499	2.3	20.5
9 8	21 54.90	-12 47.3	1.291	2.267	8.3	19.9	9 8	21 56.00	-14 4.3	2.517	3.484	5.5	20.7
9 18	21 49.42	-13 23.5	1.353	2.278	12.8	20.2	9 18	21 49.97	-14 37.9	2.566	3.469	8.5	20.8
9 28	21 46.57	-13 44.8	1.435	2.289	16.6	20.5	9 28	21 45.41	-15 2.5	2.639	3.454	11.1	21.0
<b>521082</b>	2015 DF <sub>241</sub>		8 22.7 115°27	7°1/29.5	17		<b>281890</b>	2010 OA <sub>74</sub>		8 22.7 164°42	4°3/18.8	18	
7 20	22 31.45	+ 9 58.4	1.812	2.599	17.0	22.2	7 20	22 32.37	-21 34.8	1.991	2.877	12.0	20.9
7 30	22 26.26	+10 10.1	1.746	2.613	14.2	22.0	7 30	22 26.91	-22 32.4	1.931	2.879	8.8	20.7
8 9	22 19.13	+ 9 57.0	1.700	2.626	11.2	21.8	8 9	22 19.53	-23 30.4	1.895	2.881	5.8	20.5
8 19	22 10.74	+ 9 18.9	1.676	2.639	8.4	21.7	8 19	22 10.90	-24 22.4	1.886	2.883	4.3	20.5
8 29	22 2.00	+ 8 18.5	1.677	2.652	7.1	21.7	8 29	22 1.93	-25 2.3	1.903	2.884	5.9	20.6
9 8	21 53.92	+ 7 1.8	1.704	2.664	8.2	21.8	9 8	21 53.63	-25 26.0	1.948	2.885	8.9	20.8
9 18	21 47.36	+ 5 36.6	1.756	2.676	10.7	21.9	9 18	21 46.84	-25 32.0	2.016	2.886	12.0	20.9
9 28	21 42.97	+ 4 11.0	1.833	2.687	13.5	22.1	9 28	21 42.21	-25 20.8	2.106	2.887	14.6	21.1
<b>109974</b>	2001 SL <sub>53</sub>		8 22.7 256°71	1°9/21.2	18		<b>35796</b>	1999 JL <sub>31</sub>	</				

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>24317</b>	Pukarhamal		8 22.7	28°36'	0°8'/23.2	18	<b>163115</b>	2002 AF <sub>191</sub>		8 22.7	326°91'	4°6'/19.3	18
7 20	22 32.85	- 9 7.9	1.172	2.063	18.1	18.1	7 20	22 27.57	-15 48.2	1.111	2.025	17.0	19.0
7 30	22 28.04	- 9 4.8	1.120	2.071	13.5	17.8	7 30	22 24.65	-17 18.6	1.048	2.012	12.5	18.7
8 9	22 20.51	- 9 15.4	1.088	2.079	8.2	17.5	8 9	22 18.82	-19 2.4	1.005	2.001	7.7	18.4
8 19	22 11.20	- 9 35.6	1.078	2.088	2.6	17.2	8 19	22 10.84	-20 48.2	0.984	1.989	4.6	18.2
8 29	22 1.50	- 9 59.2	1.092	2.098	3.4	17.3	8 29	22 2.07	-22 22.4	0.986	1.979	7.4	18.3
9 8	21 52.89	-10 19.9	1.130	2.108	8.9	17.7	9 8	21 54.13	-23 33.5	1.010	1.970	12.5	18.5
9 18	21 46.56	-10 33.1	1.189	2.120	13.7	18.0	9 18	21 48.45	-24 15.5	1.054	1.961	17.3	18.8
9 28	21 43.26	-10 35.5	1.269	2.132	17.8	18.3	9 28	21 46.01	-24 27.1	1.115	1.953	21.5	19.0
<b>328177</b>	2008 DH <sub>15</sub>		8 22.7	63°59'	0°3'/22.5	17	<b>451763</b>	2013 FO <sub>11</sub>		8 22.7	11°07'	2°8'/25.7	18
7 20	22 32.33	- 8 52.7	1.343	2.227	16.7	20.8	7 20	22 26.16	- 0 5.1	2.028	2.868	13.6	21.1
7 30	22 27.25	- 9 39.9	1.300	2.248	12.2	20.6	7 30	22 22.29	- 0 33.6	1.953	2.869	10.6	20.9
8 9	22 19.83	-10 41.1	1.278	2.269	7.2	20.3	8 9	22 16.78	- 1 19.2	1.900	2.870	7.2	20.7
8 19	22 10.98	-11 49.2	1.281	2.291	1.9	20.1	8 19	22 10.18	- 2 19.5	1.872	2.871	3.9	20.5
8 29	22 1.90	-12 55.9	1.308	2.313	3.4	20.2	8 29	22 3.23	- 3 29.8	1.871	2.873	3.1	20.5
9 8	21 53.88	-13 53.6	1.361	2.334	8.4	20.6	9 8	21 56.75	- 4 44.1	1.897	2.874	6.0	20.7
9 18	21 47.87	-14 37.0	1.438	2.356	12.7	20.9	9 18	21 51.49	- 5 56.3	1.950	2.876	9.4	20.9
9 28	21 44.53	-15 3.8	1.535	2.378	16.3	21.2	9 28	21 48.04	- 7 0.9	2.027	2.878	12.5	21.1
<b>168867</b>	2000 VP <sub>44</sub>		8 22.7	230°77'	0°2'/22.8	17	<b>126312</b>	2002 AZ <sub>124</sub>		8 22.7	58°99'	0°2'/22.6	18
7 20	22 33.35	- 8 43.3	1.639	2.509	14.9	20.6	7 20	22 30.22	- 9 4.9	1.630	2.507	14.6	19.6
7 30	22 28.05	- 9 14.1	1.560	2.501	11.1	20.3	7 30	22 25.59	- 9 43.6	1.567	2.511	10.8	19.4
8 9	22 20.45	- 9 58.0	1.504	2.492	6.7	20.1	8 9	22 18.87	-10 34.7	1.526	2.515	6.4	19.1
8 19	22 11.22	-10 50.7	1.472	2.482	1.9	19.7	8 19	22 10.77	-11 33.2	1.509	2.520	1.7	18.8
8 29	22 1.38	-11 45.6	1.468	2.472	3.1	19.8	8 29	22 2.27	-12 32.4	1.519	2.524	3.0	18.9
9 8	21 52.13	-12 36.2	1.490	2.462	7.9	20.1	9 8	21 54.48	-13 25.7	1.556	2.528	7.6	19.2
9 18	21 44.56	-13 17.1	1.536	2.451	12.3	20.3	9 18	21 48.32	-14 8.0	1.617	2.533	11.7	19.5
9 28	21 39.47	-13 44.6	1.604	2.439	16.1	20.5	9 28	21 44.48	-14 36.2	1.699	2.537	15.2	19.7
<b>315672</b>	2008 DJ <sub>88</sub>		8 22.7	33°39'	5°7'/17.9	18	<b>96964</b>	1999 TF <sub>187</sub>		8 22.7	206°42'	5°6'/27.9	18
7 20	22 32.41	-25 51.8	1.891	2.781	12.3	19.9	7 20	22 31.02	+ 6 8.2	2.161	2.958	14.3	19.2
7 30	22 27.00	-26 42.8	1.839	2.785	9.3	19.8	7 30	22 25.84	+ 6 27.5	2.076	2.954	11.8	19.1
8 9	22 19.60	-27 29.9	1.811	2.790	6.7	19.6	8 9	22 18.91	+ 6 28.7	2.011	2.950	9.0	18.9
8 19	22 10.92	-28 6.6	1.808	2.795	5.7	19.6	8 19	22 10.78	+ 6 11.5	1.972	2.945	6.6	18.7
8 29	22 1.98	-28 27.1	1.831	2.801	7.2	19.7	8 29	22 2.21	+ 5 37.5	1.958	2.940	5.6	18.7
9 8	21 53.83	-28 28.6	1.880	2.806	9.9	19.9	9 8	21 54.06	+ 4 50.7	1.972	2.935	7.1	18.7
9 18	21 47.34	-28 10.9	1.952	2.812	12.7	20.0	9 18	21 47.13	+ 3 56.2	2.012	2.930	9.7	18.9
9 28	21 43.13	-27 35.7	2.044	2.818	15.2	20.2	9 28	21 42.06	+ 3 0.0	2.077	2.924	12.5	19.1
<b>20058</b>	1993 OM <sub>8</sub>		8 22.7	355°80'	0°9'/23.5	18	<b>485393</b>	2011 KC <sub>32</sub>		8 22.7	40°13'	2°7'/25.9	18
7 20	22 27.32	- 7 2.2	1.803	2.674	13.7	17.9	7 20	22 25.37	- 0 19.0	2.629	3.458	11.2	20.8
7 30	22 23.32	- 7 23.2	1.732	2.672	10.3	17.7	7 30	22 21.30	- 0 26.0	2.563	3.471	8.7	20.6
8 9	22 17.47	- 7 56.8	1.683	2.670	6.4	17.5	8 9	22 16.01	- 0 45.1	2.519	3.484	6.0	20.5
8 19	22 10.36	- 8 39.5	1.659	2.668	2.2	17.2	8 19	22 9.94	- 1 14.6	2.502	3.498	3.5	20.3
8 29	22 2.87	- 9 26.3	1.662	2.667	2.6	17.2	8 29	22 3.68	- 1 52.0	2.512	3.511	2.9	20.3
9 8	21 55.94	-10 11.7	1.691	2.667	6.7	17.5	9 8	21 57.83	- 2 33.4	2.551	3.525	4.9	20.5
9 18	21 50.41	-10 50.8	1.745	2.667	10.6	17.7	9 18	21 52.93	- 3 15.3	2.617	3.539	7.5	20.7
9 28	21 46.94	-11 19.8	1.821	2.668	14.0	17.9	9 28	21 49.44	- 3 54.1	2.707	3.553	9.9	20.9
<b>33265</b>	1998 HC <sub>63</sub>		8 22.7	161°47'	8°5'/15.5	18	<b>509465</b>	2007 RX <sub>149</sub>		8 22.7	326°96'	4°4'/25.0	17
7 20	22 37.41	-33 27.4	1.848	2.725	13.1	17.5	7 20	22 30.42	- 3 14.3	1.098	1.981	19.6	20.8
7 30	22 30.89	-34 37.7	1.800	2.728	10.7	17.3	7 30	22 26.77	- 2 40.9	1.025	1.966	15.4	20.5
8 9	22 22.00	-35 37.8	1.775	2.730	8.9	17.2	8 9	22 20.13	- 2 27.2	0.970	1.952	10.6	20.2
8 19	22 11.60	-36 19.2	1.775	2.731	8.6	17.2	8 19	22 11.23	- 2 33.2	0.936	1.939	5.8	19.9
8 29	22 0.88	-36 35.7	1.800	2.733	10.0	17.3	8 29	22 1.42	- 2 55.7	0.923	1.926	5.1	19.8
9 8	21 51.13	-36 25.2	1.849	2.734	12.3	17.5	9 8	21 52.34	- 3 28.1	0.933	1.915	9.7	20.0
9 18	21 43.37	-35 49.4	1.920	2.735	14.7	17.6	9 18	21 45.50	- 4 2.8	0.963	1.904	15.0	20.3
9 28	21 38.30	-34 52.3	2.009	2.736	16.9	17.8	9 28	21 41.97	- 4 32.1	1.012	1.895	19.7	20.5
<b>392073</b>	2009 DP <sub>6</sub>		8 22.7	254°02'	0°7'/23.3	18	<b>137865</b>	2000 AJ <sub>82</sub>		8 22.7	296°28'	1°7'/21.4	18
7 20	22 31.23	- 8 7.8	1.950	2.814	13.1	21.8	7 20	22 30.07	-11 46.7	1.408	2.299	15.6	20.1
7 30	22 26.13	- 8 20.7	1.870	2.806	9.8	21.5	7 30	22 26.17	-12 41.3	1.320	2.273	11.6	19.8
8 9	22 19.14	- 8 44.1	1.813	2.798	6.1	21.3	8 9	22 19.65	-13 51.1	1.253	2.247	6.9	19.5
8 19	22 10.84	- 9 15.0	1.781	2.790	2.0	21.0	8 19	22 11.09	-15 9.6	1.210	2.221	2.2	19.1
8 29	22 2.09	- 9 49.0	1.777	2.782	2.5	21.0	8 29	22 1.61	-16 27.7	1.193	2.194	4.6	19.2
9 8	21 53.85	-10 21.5	1.800	2.774	6.7	21.3	9 8	21 52.58	-17 35.8	1.200	2.168	9.9	19.4
9 18	21 46.98	-10 48.4	1.850	2.766	10.5	21.5	9 18	21 45.33	-18 26.7	1.229	2.142	14.9	19.6
9 28	21 42.17	-11 6.6	1.922	2.757	13.8	21.7	9 28	21 40.92	-18 56.6	1.278	2.116	19.2	19.8
<b>162866</b>	2001 EB <sub>13</sub>		8 22.7	308°76'	20°3'/15.1	18	<b>386594</b>	2009 FS <sub>56</sub>		8 22.7	149°25'	13°9'/28.9	15
7 20	23 2.35	-49 39.6	0.980	1.835	23.7	19.0	7 20	22 42.85	+11 50.6	1.163	1.960	24.1	20.2
7 30	22 52.12	-50 51.8	0.939	1.826	21.8	18.8	7 30	22 35.95	+14 5.1	1.101	1.964	20.9	20.0
8 9	22 35.72	-51 26.5	0.913	1.816	20.5	18.7	8 9	22 25.62	+15 51.2	1.056	1.968	17.6	19.8
8 19	22 15.40	-51 3.1	0.902	1.807	20.4	18.7	8 19	22 12.75	+16 59.8	1.030	1.971	14.9	19.7
8 29	21 54.98	-49 30.6	0.909	1.799	21.5	18.7	8 29	21 58.91	+17 25.5	1.025	1.975	13.9	19.6
9 8	21 38.16	-46 54.3	0.933	1.791	23.6	18.8	9 8	21 46.01	+17 10.7	1.041	1.977	14.9	19.7
9 18	21 26.98	-43 31.2	0.974	1.783	26.1	19.0	9 18	21 35.72	+16 24.3	1.078	1.979	17.5	19.9
9 28	21 21.88	-39 40.7	1.029	1.776	28.6	19.2	9 28	21 29.16	+15 19.3	1.133	1.981	20.5	20.1
<b>484924</b>	2009 SO <sub>99</sub>		8 22.7	340°21'	4°0'/24.3	17	<b>294366</b>	2007 VD <sub>109</sub>		8 22.7	19°08'	3°8'/19.5	18
7 20	22 40.04												



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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>469225</b>	2016 <i>HR</i> <sub>9</sub>		8 22.7 97°12	11.5/4.1	17		<b>13032</b>	Tarn		8 22.7 240°89	1°0/23.7	18	
7 20	22 30.55	+21 5.6	1.554	2.284	21.6	21.4	7 20	22 28.98	- 5 54.4	1.934	2.795	13.3	18.7
7 30	22 25.99	+21 19.8	1.491	2.299	19.1	21.2	7 30	22 24.47	- 6 27.4	1.858	2.791	10.0	18.5
8 9	22 19.18	+20 56.8	1.443	2.314	16.3	21.1	8 9	22 18.16	- 7 14.0	1.804	2.788	6.3	18.3
8 19	22 10.87	+19 53.8	1.414	2.329	13.7	21.0	8 19	22 10.60	- 8 10.4	1.776	2.784	2.2	18.0
8 29	22 2.15	+18 12.5	1.406	2.343	11.8	20.9	8 29	22 2.62	- 9 11.6	1.775	2.781	2.5	18.0
9 8	21 54.22	+16 0.8	1.421	2.357	11.6	20.9	9 8	21 55.15	-10 11.3	1.802	2.777	6.5	18.3
9 18	21 48.09	+13 30.7	1.460	2.371	13.1	21.1	9 18	21 49.02	-11 4.5	1.855	2.773	10.3	18.5
9 28	21 44.48	+10 55.7	1.523	2.385	15.4	21.2	9 28	21 44.87	-11 47.1	1.931	2.769	13.6	18.7
<b>452665</b>	2005 <i>WX</i> <sub>46</sub>		8 22.7 312°58	3°8/19.2	18		<b>402015</b>	2003 <i>SY</i> <sub>24</sub>		8 22.7 319°18	1°2/23.6	17	
7 20	22 29.24	-20 1.9	1.944	2.834	12.0	21.2	7 20	22 29.52	- 7 53.7	1.965	2.830	13.0	20.8
7 30	22 24.78	-20 54.4	1.870	2.822	8.8	21.0	7 30	22 24.95	- 7 48.5	1.875	2.811	9.8	20.5
8 9	22 18.38	-21 49.3	1.821	2.810	5.7	20.8	8 9	22 18.50	- 7 52.9	1.808	2.793	6.2	20.3
8 19	22 10.65	-22 40.7	1.797	2.797	3.8	20.7	8 19	22 10.71	- 8 4.8	1.766	2.775	2.3	20.0
8 29	22 2.47	-23 22.3	1.799	2.786	5.6	20.7	8 29	22 2.41	- 8 20.9	1.752	2.757	2.6	20.0
9 8	21 54.83	-23 49.2	1.828	2.774	8.8	20.9	9 8	21 54.52	- 8 37.4	1.764	2.739	6.6	20.2
9 18	21 48.61	-23 59.1	1.881	2.763	12.1	21.1	9 18	21 47.93	- 8 50.7	1.802	2.723	10.4	20.4
9 28	21 44.50	-23 51.7	1.955	2.752	15.0	21.3	9 28	21 43.35	- 8 57.7	1.862	2.706	13.8	20.6
<b>41062</b>	1999 <i>VC</i> <sub>29</sub>		8 22.7 144°31	0°7/22.0	18		<b>263018</b>	2007 <i>EP</i> <sub>196</sub>		8 22.7 176°90	0°1/22.7	18	
7 20	22 28.85	-11 54.4	2.585	3.451	10.2	19.9	7 20	22 28.32	- 9 36.5	2.717	3.575	10.0	22.2
7 30	22 23.90	-12 26.6	2.517	3.457	7.5	19.7	7 30	22 23.48	-10 5.3	2.642	3.577	7.4	22.0
8 9	22 17.58	-13 4.7	2.474	3.463	4.4	19.6	8 9	22 17.34	-10 41.2	2.591	3.578	4.4	21.8
8 19	22 10.39	-13 45.2	2.458	3.469	1.2	19.3	8 19	22 10.35	-11 21.3	2.568	3.578	1.2	21.6
8 29	22 2.96	-14 24.4	2.472	3.474	2.4	19.4	8 29	22 3.09	-12 1.9	2.575	3.579	2.0	21.7
9 8	21 55.98	-14 58.5	2.514	3.479	5.6	19.7	9 8	21 56.22	-12 39.5	2.610	3.579	5.2	21.9
9 18	21 50.05	-15 24.9	2.584	3.484	8.5	19.9	9 18	21 50.32	-13 11.2	2.673	3.579	8.1	22.1
9 28	21 45.66	-15 41.9	2.677	3.489	11.0	20.0	9 28	21 45.87	-13 34.7	2.760	3.578	10.6	22.2
<b>47783</b>	2000 <i>EU</i> <sub>19</sub>		8 22.7 311°92	6°6/17.3	18		<b>246506</b>	2008 <i>BH</i> <sub>53</sub>		8 22.7 235°45	3°8/18.8	18	
7 20	22 31.55	-25 41.2	1.649	2.545	13.4	17.9	7 20	22 29.69	-20 32.6	2.143	3.029	11.2	20.5
7 30	22 26.90	-26 48.9	1.580	2.529	10.3	17.7	7 30	22 24.89	-21 33.6	2.078	3.027	8.3	20.3
8 9	22 19.84	-27 54.9	1.533	2.514	7.6	17.5	8 9	22 18.35	-22 36.2	2.038	3.025	5.3	20.1
8 19	22 11.09	-28 50.6	1.512	2.498	6.6	17.4	8 19	22 10.64	-23 34.5	2.024	3.023	3.8	20.0
8 29	22 1.75	-29 27.8	1.515	2.483	8.5	17.5	8 29	22 2.59	-24 22.5	2.038	3.021	5.4	20.1
9 8	21 53.11	-29 41.5	1.542	2.469	11.6	17.6	9 8	21 55.08	-24 55.9	2.079	3.018	8.3	20.3
9 18	21 46.27	-29 30.6	1.591	2.454	15.0	17.8	9 18	21 48.89	-25 12.8	2.144	3.016	11.3	20.5
9 28	21 42.06	-28 57.0	1.659	2.440	17.9	18.0	9 28	21 44.64	-25 12.8	2.231	3.014	13.9	20.6
<b>67992</b>	2000 <i>XU</i> <sub>22</sub>		8 22.7 259°11	7°1/27.9	18		<b>368490</b>	2003 <i>TN</i> <sub>35</sub>		8 22.8 163°51	3°9/25.9	17	
7 20	22 32.75	+ 6 35.2	1.838	2.640	16.3	18.6	7 20	22 33.15	+ 0 30.8	1.712	2.548	15.9	21.3
7 30	22 27.42	+ 7 23.7	1.755	2.635	13.6	18.4	7 30	22 27.70	+ 0 27.1	1.640	2.552	12.5	21.1
8 9	22 20.01	+ 7 52.9	1.693	2.629	10.6	18.2	8 9	22 20.16	+ 0 4.4	1.590	2.556	8.7	20.8
8 19	22 11.13	+ 8 0.9	1.654	2.623	8.0	18.1	8 19	22 11.17	- 0 35.8	1.563	2.559	5.1	20.6
8 29	22 1.67	+ 7 48.1	1.640	2.617	7.1	18.0	8 29	22 1.74	- 1 29.2	1.563	2.562	4.2	20.6
9 8	21 52.71	+ 7 18.0	1.651	2.611	8.5	18.1	9 8	21 52.96	- 2 29.5	1.590	2.564	7.2	20.8
9 18	21 45.19	+ 6 35.9	1.688	2.604	11.3	18.2	9 18	21 45.77	- 3 30.2	1.642	2.566	11.0	21.0
9 28	21 39.89	+ 5 48.6	1.747	2.598	14.3	18.4	9 28	21 40.91	- 4 25.0	1.717	2.567	14.5	21.2
<b>82452</b>	2001 <i>OB</i> <sub>11</sub>		8 22.7 123°12	4°5/19.4	18		<b>177134</b>	2003 <i>JB</i> <sub>14</sub>		8 22.8 137°91	0°2/22.9	18	
7 20	22 34.31	-20 13.2	1.567	2.460	14.2	19.7	7 20	22 27.87	- 7 42.5	2.462	3.319	11.0	20.3
7 30	22 28.76	-21 8.1	1.511	2.463	10.5	19.5	7 30	22 23.26	- 8 30.7	2.393	3.327	8.1	20.2
8 9	22 20.83	-22 4.9	1.476	2.465	6.7	19.3	8 9	22 17.25	- 9 28.7	2.349	3.335	4.9	20.0
8 19	22 11.33	-22 55.9	1.467	2.468	4.5	19.2	8 19	22 10.33	-10 32.5	2.333	3.342	1.4	19.7
8 29	22 1.44	-23 33.5	1.483	2.470	6.4	19.3	8 29	22 3.16	-11 37.5	2.345	3.350	2.1	19.8
9 8	21 52.42	-23 52.7	1.525	2.473	10.1	19.5	9 8	21 56.43	-12 38.8	2.386	3.356	5.5	20.1
9 18	21 45.33	-23 52.2	1.590	2.475	13.8	19.8	9 18	21 50.75	-13 32.5	2.455	3.363	8.6	20.3
9 28	21 40.89	-23 32.8	1.675	2.477	16.9	20.0	9 28	21 46.65	-14 15.8	2.548	3.369	11.2	20.5
<b>236451</b>	2006 <i>EX</i> <sub>10</sub>		8 22.7 275°56	0°3/22.5	18		<b>217827</b>	2001 <i>FQ</i> <sub>176</sub>		8 22.8 40°56	8°0/17.3	17	
7 20	22 29.82	- 9 9.2	1.765	2.639	13.8	21.0	7 20	22 31.83	-23 16.0	1.013	1.932	17.8	18.8
7 30	22 25.40	- 9 53.1	1.679	2.622	10.3	20.8	7 30	22 27.50	-25 10.0	0.994	1.957	13.3	18.6
8 9	22 18.88	-10 50.3	1.615	2.604	6.2	20.5	8 9	22 20.20	-26 59.0	0.995	1.983	9.4	18.5
8 19	22 10.84	-11 56.1	1.576	2.587	1.7	20.2	8 19	22 11.15	-28 29.0	1.018	2.010	8.1	18.5
8 29	22 2.17	-13 4.1	1.565	2.569	3.1	20.2	8 29	22 2.02	-29 29.0	1.063	2.037	10.3	18.7
9 8	21 53.96	-14 7.0	1.580	2.551	7.7	20.5	9 8	21 54.41	-29 55.0	1.129	2.066	13.9	19.0
9 18	21 47.18	-14 59.3	1.621	2.533	11.9	20.7	9 18	21 49.44	-29 48.6	1.214	2.095	17.5	19.3
9 28	21 42.66	-15 36.9	1.682	2.515	15.6	20.9	9 28	21 47.68	-29 15.0	1.316	2.124	20.4	19.6
<b>389077</b>	2008 <i>WW</i> <sub>115</sub>		8 22.7 194°46	0°3/22.5	18		<b>438088</b>	2004 <i>TU</i> <sub>276</sub>		8 22.8 303°47	5°2/18.8	18	
7 20	22 31.04	-10 15.6	1.919	2.790	13.0	21.9	7 20	22 32.52	-21 56.2	1.576	2.473	13.9	20.8
7 30	22 25.98	-10 45.8	1.847	2.789	9.6	21.7	7 30	22 27.63	-22 52.3	1.507	2.460	10.4	20.5
8 9	22 19.04	-11 25.5	1.799	2.788	5.7	21.5	8 9	22 20.30	-23 49.6	1.461	2.448	7.0	20.3
8 19	22 10.83	-12 10.5	1.777	2.787	1.5	21.2	8 19	22 11.26	-24 40.3	1.439	2.436	5.2	20.2
8 29	22 2.24	-12 55.7	1.782	2.786	2.8	21.3	8 29	22 1.64	-25 16.3	1.442	2.425	7.1	20.2
9 8	21 54.23	-13 35.7	1.814	2.784	6.9	21.5	9 8	21 52.74	-25 32.4	1.470	2.413	10.8	20.4
9 18	21 47.63	-14 6.7	1.872	2.783	10.7	21.8	9 18	21 45.70	-25 26.8	1.520	2.402	14.5	20.6
9 28	21 43.11	-14 26.0	1.953	2.781	13.9	22.0	9 28	21 41.33	-25 0.5	1.590	2.391	17.8	20.8
<b>287297</b>	2002 <i>TL</i> <sub>204</sub>		8 22.7 309°92	0°7/23.3	18		<b>235671</b>	2004 <i>RU</i> <sub>253</sub>					

EPHEMERIDES

8 22.8

8 22.8

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>75892</b>	2000 <i>CD</i> <sub>38</sub>		8 22.8 60°11	2.4/20.9	18		<b>491841</b>	2013 <i>AX</i> <sub>51</sub>		8 22.8 212°77	2.6/20.5	18	
7 20	22 32.69	-14 3.9	1.340	2.234	16.0	18.4	7 20	22 33.17	-18 10.4	2.247	3.122	11.2	22.1
7 30	22 27.64	-14 58.8	1.296	2.251	11.6	18.1	7 30	22 27.37	-18 41.4	2.173	3.117	8.2	21.9
8 9	22 20.17	-16 2.1	1.274	2.267	6.8	17.9	8 9	22 19.83	-19 14.6	2.123	3.112	5.0	21.7
8 19	22 11.18	-17 5.9	1.275	2.284	2.7	17.7	8 19	22 11.12	-19 45.4	2.101	3.106	2.6	21.6
8 29	22 1.92	-18 1.5	1.302	2.301	4.8	17.9	8 29	22 2.06	-20 9.4	2.108	3.100	4.1	21.6
9 8	21 53.72	-18 42.5	1.353	2.318	9.4	18.2	9 8	21 53.53	-20 23.0	2.142	3.094	7.3	21.8
9 18	21 47.59	-19 5.5	1.427	2.335	13.5	18.5	9 18	21 46.32	-20 24.4	2.202	3.088	10.5	22.0
9 28	21 44.20	-19 10.0	1.522	2.353	17.0	18.8	9 28	21 41.04	-20 13.2	2.285	3.081	13.2	22.2
<b>16249</b>	Cauchy		8 22.8 51°77	1.7/21.3	18		<b>401527</b>	2013 <i>ET</i> <sub>91</sub>		8 22.8 67°16	0.4/23.1	18	
7 20	22 30.14	-13 50.4	1.902	2.783	12.6	18.7	7 20	22 34.08	-10 16.5	2.103	2.963	12.4	20.5
7 30	22 25.33	-14 30.7	1.837	2.785	9.2	18.5	7 30	22 27.86	-10 9.1	2.048	2.983	9.2	20.3
8 9	22 18.67	-15 17.8	1.796	2.787	5.4	18.2	8 9	22 19.99	-10 8.5	2.017	3.003	5.5	20.2
8 19	22 10.78	-16 6.5	1.780	2.790	1.9	18.0	8 19	22 11.13	-10 12.2	2.013	3.023	1.7	19.9
8 29	22 2.55	-16 51.2	1.792	2.792	3.6	18.1	8 29	22 2.12	-10 17.0	2.038	3.042	2.3	20.0
9 8	21 54.93	-17 26.8	1.831	2.795	7.5	18.4	9 8	21 53.83	-10 20.1	2.090	3.062	6.0	20.3
9 18	21 48.76	-17 50.2	1.895	2.797	11.0	18.6	9 18	21 46.97	-10 19.2	2.170	3.082	9.4	20.5
9 28	21 44.66	-17 59.8	1.981	2.800	14.1	18.8	9 28	21 42.07	-10 12.7	2.273	3.102	12.2	20.8
<b>20736</b>	1999 <i>XV</i> <sub>170</sub>		8 22.8 255°26	3.8/18.7	18		<b>451181</b>	2009 <i>ST</i> <sub>304</sub>		8 22.8 283°78	2.2/25.2	18	
7 20	22 29.44	-21 42.6	2.349	3.233	10.4	17.7	7 20	22 26.29	-1 34.6	2.326	3.165	12.1	21.7
7 30	22 24.61	-22 36.7	2.281	3.228	7.7	17.5	7 30	22 22.32	-2 2.8	2.235	3.153	9.4	21.5
8 9	22 18.16	-23 31.3	2.238	3.223	5.1	17.3	8 9	22 16.84	-2 45.5	2.168	3.141	6.3	21.3
8 19	22 10.64	-24 21.1	2.222	3.218	3.8	17.2	8 19	22 10.31	-3 40.6	2.127	3.128	3.2	21.0
8 29	22 2.79	-25 0.9	2.234	3.213	5.3	17.3	8 29	22 3.38	-4 44.1	2.113	3.116	2.6	21.0
9 8	21 55.42	-25 27.1	2.273	3.208	7.9	17.5	9 8	21 56.79	-5 50.9	2.128	3.104	5.6	21.1
9 18	21 49.26	-25 37.8	2.336	3.203	10.7	17.6	9 18	21 51.24	-6 55.9	2.169	3.092	8.8	21.3
9 28	21 44.90	-25 33.0	2.422	3.198	13.1	17.8	9 28	21 47.30	-7 54.4	2.235	3.079	11.8	21.5
<b>476608</b>	2008 <i>SF</i> <sub>125</sub>		8 22.8 263°45	2.0/24.5	18		<b>257138</b>	2008 <i>HM</i>		8 22.8 86°07	0.7/22.1	18	
7 20	22 30.67	-3 39.9	1.990	2.838	13.5	22.1	7 20	22 29.46	-11 49.0	2.147	3.019	11.8	21.5
7 30	22 25.86	-3 58.3	1.894	2.818	10.4	21.9	7 30	22 24.63	-12 19.9	2.080	3.023	8.6	21.3
8 9	22 19.12	-4 31.6	1.820	2.797	6.8	21.6	8 9	22 18.18	-12 57.9	2.037	3.027	5.1	21.1
8 19	22 10.96	-5 17.4	1.771	2.776	3.1	21.4	8 19	22 10.66	-13 39.1	2.021	3.031	1.4	20.8
8 29	22 2.19	-6 11.7	1.750	2.754	2.8	21.3	8 29	22 2.85	-14 18.9	2.032	3.035	2.8	20.9
9 8	21 53.77	-7 8.9	1.757	2.732	6.6	21.5	9 8	21 55.58	-14 52.8	2.071	3.039	6.4	21.2
9 18	21 46.60	-8 3.4	1.790	2.710	10.5	21.7	9 18	21 49.56	-15 17.8	2.137	3.043	9.8	21.4
9 28	21 41.44	-8 50.3	1.846	2.687	14.0	21.9	9 28	21 45.38	-15 31.9	2.225	3.047	12.6	21.6
<b>22117</b>	2000 <i>SX</i> <sub>39</sub>		8 22.8 205°35	6.7/16.7	18		<b>513524</b>	2009 <i>WW</i> <sub>32</sub>		8 22.8 290°19	4.6/19.1	18	
7 20	22 36.47	-29 20.1	2.040	2.918	12.0	18.8	7 20	22 32.23	-19 28.3	1.556	2.451	14.1	21.8
7 30	22 30.07	-30 24.1	1.979	2.915	9.4	18.6	7 30	22 27.62	-20 33.1	1.474	2.428	10.5	21.5
8 9	22 21.54	-31 22.3	1.943	2.910	7.3	18.5	8 9	22 20.46	-21 43.7	1.415	2.405	6.8	21.3
8 19	22 11.59	-32 7.4	1.933	2.905	6.8	18.5	8 19	22 11.40	-22 51.8	1.379	2.381	4.6	21.1
8 29	22 1.25	-32 33.2	1.949	2.900	8.2	18.5	8 29	22 1.53	-23 48.4	1.370	2.357	6.8	21.2
9 8	21 51.64	-32 36.6	1.991	2.894	10.7	18.7	9 8	21 52.20	-24 26.1	1.385	2.334	10.9	21.3
9 18	21 43.72	-32 18.0	2.056	2.888	13.3	18.8	9 18	21 44.65	-24 41.5	1.423	2.310	15.0	21.5
9 28	21 38.19	-31 39.7	2.141	2.881	15.6	19.0	9 28	21 39.84	-24 34.0	1.480	2.286	18.6	21.7
<b>291299</b>	2006 <i>BV</i> <sub>140</sub>		8 22.8 247°52	1.0/24.1	18		<b>501825</b>	2014 <i>WJ</i> <sub>64</sub>		8 22.8 70°83	3.9/20.1	17	
7 20	22 26.55	-3 1.8	2.621	3.460	10.9	20.5	7 20	22 33.91	-16 31.8	1.247	2.147	16.6	20.6
7 30	22 22.37	-4 10.6	2.526	3.447	8.3	20.3	7 30	22 28.81	-17 39.0	1.201	2.158	12.1	20.4
8 9	22 16.80	-5 33.8	2.456	3.434	5.3	20.1	8 9	22 21.02	-18 53.0	1.176	2.170	7.3	20.2
8 19	22 10.28	-7 7.9	2.414	3.421	2.1	19.8	8 19	22 11.48	-20 4.2	1.175	2.181	3.9	20.0
8 29	22 3.37	-8 47.7	2.403	3.408	2.0	19.8	8 29	22 1.58	-21 2.6	1.198	2.192	6.2	20.2
9 8	21 56.74	-10 27.2	2.421	3.394	5.2	20.0	9 8	21 52.80	-21 41.5	1.245	2.204	10.7	20.5
9 18	21 51.01	-12 0.6	2.469	3.380	8.4	20.2	9 18	21 46.29	-21 58.1	1.314	2.216	15.0	20.8
9 28	21 46.74	-13 23.5	2.542	3.366	11.2	20.4	9 28	21 42.78	-21 53.0	1.402	2.227	18.5	21.0
<b>59481</b>	1999 <i>HX</i> <sub>8</sub>		8 22.8 117°28	0.7/23.3	18		<b>65053</b>	2002 <i>AP</i> <sub>159</sub>		8 22.8 68°74	0.7/21.9	18	
7 20	22 31.72	-7 36.1	1.694	2.562	14.6	19.4	7 20	22 27.35	-9 38.6	2.055	2.927	12.2	18.8
7 30	22 26.65	-8 0.8	1.628	2.567	10.9	19.2	7 30	22 23.12	-10 45.4	1.996	2.939	8.9	18.6
8 9	22 19.53	-8 38.3	1.584	2.571	6.6	19.0	8 9	22 17.29	-12 2.4	1.961	2.951	5.2	18.4
8 19	22 11.04	-9 24.5	1.566	2.575	2.1	18.7	8 19	22 10.42	-13 24.2	1.953	2.963	1.4	18.2
8 29	22 2.16	-10 13.8	1.574	2.579	2.7	18.7	8 29	22 3.27	-14 44.3	1.972	2.975	2.9	18.3
9 8	21 53.96	-11 0.0	1.609	2.583	7.2	19.0	9 8	21 56.68	-15 56.6	2.020	2.987	6.6	18.6
9 18	21 47.37	-11 38.3	1.668	2.587	11.3	19.3	9 18	21 51.35	-16 56.5	2.094	2.999	10.0	18.8
9 28	21 43.07	-12 5.4	1.750	2.591	14.7	19.5	9 28	21 47.84	-17 41.4	2.191	3.011	12.9	19.1
<b>387548</b>	2001 <i>BK</i> <sub>6</sub>		8 22.8 164°40	2.6/25.0	18	R	<b>95835</b>	2003 <i>FF</i> <sub>103</sub>		8 22.8 48°57	0.4/23.1	18	
7 20	22 33.52	-2 42.0	2.311	3.142	12.5	21.2	7 20	22 29.75	-8 4.1	1.735	2.607	14.1	19.7
7 30	22 27.48	-2 36.0	2.235	3.147	9.6	21.1	7 30	22 24.97	-8 36.1	1.690	2.631	10.4	19.5
8 9	22 19.83	-2 41.6	2.182	3.152	6.5	20.9	8 9	22 18.38	-9 19.4	1.668	2.656	6.2	19.3
8 19	22 11.10	-2 57.4	2.156	3.156	3.4	20.7	8 19	22 10.70	-10 9.4	1.671	2.681	1.9	19.1
8 29	22 2.06	-3 20.7	2.159	3.160	3.0	20.7	8 29	22 2.86	-11 0.4	1.701	2.706	2.6	19.2
9 8	21 53.52	-3 47.9	2.191	3.163	5.7	20.9	9 8	21 55.81	-11 46.6	1.757	2.731	6.7	19.5
9 18	21 46.21	-4 15.4	2.250	3.166	8.9	21.1	9 18	21 50.31	-12 23.9	1.839	2.757	10.4	19.8
9 28	21 40.69	-4 39.6	2.334	3.168	11.7	21.3	9 28	21 46.91	-12 49.7	1.943	2.783	13.5	20.0
<b>6750</b>	Katgert		8 22.8 245°77	0.7/22.2	18		<b>91945</b>	1999 <i>VU</i> <sub>64</sub>		8 22.8 240°65	1.1/21.5	18	
7 20	22 31.46	-1											

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>520200</b>	2014 <i>DE</i> <sub>150</sub>		8 22.8 187°85	2°1/20.9	18		<b>38997</b>	2000 <i>UF</i> <sub>26</sub>		8 22.8 250°71	7°0/15.8	18	
7 20	22 32.77	-15 56.8	2.089	2.965	11.9	21.8	7 20	22 34.47	-28 54.5	2.020	2.902	12.0	18.6
7 30	22 27.17	-16 33.3	2.020	2.965	8.7	21.6	7 30	22 28.83	-30 17.5	1.948	2.886	9.4	18.4
8 9	22 19.74	-17 14.0	1.974	2.964	5.2	21.4	8 9	22 20.98	-31 36.8	1.901	2.868	7.5	18.2
8 19	22 11.12	-17 54.4	1.955	2.963	2.3	21.2	8 19	22 11.54	-32 44.3	1.880	2.851	7.1	18.2
8 29	22 2.14	-18 29.1	1.965	2.962	3.9	21.3	8 29	22 1.51	-33 32.4	1.885	2.833	8.7	18.2
9 8	21 53.74	-18 54.1	2.002	2.960	7.4	21.5	9 8	21 52.05	-33 56.7	1.916	2.814	11.3	18.4
9 18	21 46.73	-19 6.9	2.065	2.958	10.7	21.7	9 18	21 44.16	-33 56.3	1.969	2.795	14.0	18.5
9 28	21 41.74	-19 6.6	2.150	2.955	13.6	21.9	9 28	21 38.66	-33 32.9	2.041	2.775	16.5	18.6
<b>475475</b>	2006 <i>SM</i> <sub>158</sub>		8 22.8 345°65	2°6/20.7	18		<b>398952</b>	2013 <i>DT</i> <sub>10</sub>		8 22.8 319°30	0°2/22.9	18	
7 20	22 31.66	-16 58.6	1.819	2.704	12.9	21.4	7 20	22 30.84	-9 49.5	1.887	2.758	13.2	21.2
7 30	22 26.57	-17 30.3	1.753	2.702	9.4	21.2	7 30	22 25.93	-9 58.8	1.812	2.752	9.8	20.9
8 9	22 19.48	-18 5.9	1.710	2.701	5.7	21.0	8 9	22 19.11	-10 17.2	1.759	2.747	5.9	20.7
8 19	22 11.05	-18 40.0	1.692	2.699	2.7	20.8	8 19	22 10.99	-10 41.5	1.731	2.741	1.7	20.4
8 29	22 2.25	-19 7.3	1.702	2.698	4.4	20.9	8 29	22 2.45	-11 7.3	1.731	2.736	2.6	20.5
9 8	21 54.12	-19 23.3	1.737	2.697	8.2	21.1	9 8	21 54.47	-11 30.3	1.758	2.731	6.8	20.7
9 18	21 47.55	-19 25.8	1.798	2.696	11.8	21.3	9 18	21 47.91	-11 46.8	1.810	2.727	10.7	20.9
9 28	21 43.21	-19 14.3	1.880	2.695	14.9	21.6	9 28	21 43.44	-11 54.4	1.885	2.722	14.0	21.1
<b>425714</b>	2011 <i>BH</i> <sub>27</sub>		8 22.8 211°95	0°9/23.5	18		<b>56301</b>	1999 <i>RP</i> <sub>60</sub>		8 22.8 98°58	2°0/24.5	18	
7 20	22 32.88	-6 58.9	1.879	2.738	13.8	21.8	7 20	22 32.64	-4 56.2	2.257	3.100	12.3	19.0
7 30	22 27.46	-7 22.6	1.799	2.732	10.4	21.6	7 30	22 26.81	-4 47.2	2.193	3.114	9.4	18.8
8 9	22 20.05	-7 58.8	1.742	2.726	6.4	21.4	8 9	22 19.41	-4 48.3	2.152	3.127	6.1	18.6
8 19	22 11.24	-8 44.1	1.711	2.720	2.2	21.1	8 19	22 11.04	-4 57.8	2.137	3.141	2.9	18.4
8 29	22 1.93	-9 33.3	1.708	2.713	2.6	21.1	8 29	22 2.44	-5 13.0	2.152	3.155	2.6	18.4
9 8	21 53.16	-10 21.0	1.732	2.705	6.9	21.4	9 8	21 54.41	-5 30.6	2.194	3.168	5.6	18.7
9 18	21 45.83	-11 2.2	1.782	2.697	10.9	21.6	9 18	21 47.66	-5 47.3	2.264	3.181	8.8	18.9
9 28	21 40.68	-11 33.2	1.855	2.688	14.3	21.8	9 28	21 42.70	-6 0.4	2.358	3.194	11.6	19.1
<b>255096</b>	2005 <i>UY</i> <sub>57</sub>		8 22.8 59°31	5°7/17.7	18		<b>19291</b>	Karelzeman		8 22.8 136°12	5°9/15.6	18	
7 20	22 32.97	-26 53.4	2.019	2.905	11.8	20.2	7 20	22 31.07	-30 22.7	2.632	3.508	9.7	18.4
7 30	22 27.34	-27 44.3	1.971	2.914	9.0	20.0	7 30	22 25.70	-31 35.4	2.585	3.516	7.7	18.2
8 9	22 19.81	-28 30.5	1.947	2.923	6.6	19.9	8 9	22 18.78	-32 42.4	2.564	3.525	6.2	18.2
8 19	22 11.12	-29 5.7	1.949	2.932	5.7	19.8	8 19	22 10.87	-33 38.0	2.570	3.533	5.9	18.2
8 29	22 2.21	-29 24.7	1.977	2.942	7.1	19.9	8 29	22 2.72	-34 17.7	2.604	3.541	7.1	18.2
9 8	21 54.08	-29 25.0	2.031	2.951	9.6	20.1	9 8	21 55.11	-34 38.9	2.663	3.548	9.0	18.4
9 18	21 47.55	-29 6.7	2.108	2.961	12.2	20.3	9 18	21 48.74	-34 41.3	2.746	3.556	10.9	18.5
9 28	21 43.19	-28 31.6	2.207	2.971	14.6	20.5	9 28	21 44.14	-34 26.2	2.850	3.562	12.7	18.7
<b>19150</b>	1990 <i>HY</i>		8 22.8 69°04	8°7/14.6	18		<b>514338</b>	2016 <i>PP</i> <sub>89</sub>		8 22.8 290°16	2°2/24.9	18	
7 20	22 32.61	-30 1.5	1.614	2.509	13.8	16.9	7 20	22 27.73	-2 5.8	1.800	2.653	14.5	21.3
7 30	22 27.66	-31 54.8	1.575	2.516	11.0	16.8	7 30	22 23.78	-2 40.8	1.717	2.643	11.2	21.1
8 9	22 20.28	-33 40.4	1.560	2.524	9.0	16.7	8 9	22 17.92	-3 34.3	1.656	2.633	7.4	20.8
8 19	22 11.30	-35 7.8	1.568	2.532	8.9	16.7	8 19	22 10.69	-4 43.2	1.619	2.623	3.5	20.6
8 29	22 1.93	-36 8.3	1.602	2.540	10.6	16.8	8 29	22 2.94	-6 2.0	1.609	2.614	2.9	20.5
9 8	21 53.49	-36 38.0	1.658	2.549	13.2	17.0	9 8	21 55.66	-7 23.4	1.626	2.604	6.8	20.7
9 18	21 47.03	-36 37.7	1.735	2.557	15.8	17.2	9 18	21 49.74	-8 40.2	1.669	2.595	10.8	21.0
9 28	21 43.29	-36 10.9	1.829	2.565	18.1	17.4	9 28	21 45.91	-9 46.6	1.734	2.585	14.4	21.2
<b>206387</b>	2003 <i>RT</i> <sub>23</sub>		8 22.8 260°68	4°0/25.7	18		<b>178118</b>	2006 <i>TD</i> <sub>12</sub>		8 22.8 11°26	1°7/23.7	18	
7 20	22 33.22	-0 34.6	1.990	2.821	14.2	20.3	7 20	22 26.39	-7 29.4	0.883	1.796	20.5	18.9
7 30	22 27.71	-0 9.1	1.898	2.807	11.3	20.0	7 30	22 23.91	-7 23.1	0.839	1.799	15.4	18.6
8 9	22 20.22	+0 2.5	1.828	2.792	8.0	19.8	8 9	22 18.40	-7 36.4	0.811	1.804	9.6	18.4
8 19	22 11.31	+0 0.4	1.784	2.778	4.9	19.6	8 19	22 10.85	-8 5.0	0.802	1.812	3.5	18.0
8 29	22 1.82	-0 13.7	1.766	2.763	4.2	19.5	8 29	22 2.82	-8 41.2	0.814	1.821	3.8	18.1
9 8	21 52.74	-0 36.2	1.776	2.748	6.9	19.7	9 8	21 55.99	-9 16.1	0.847	1.832	9.7	18.5
9 18	21 44.98	-1 2.8	1.812	2.732	10.4	19.8	9 18	21 51.67	-9 42.4	0.900	1.845	15.1	18.8
9 28	21 39.29	-1 28.9	1.871	2.717	13.7	20.0	9 28	21 50.63	-9 55.2	0.969	1.860	19.7	19.2
<b>354664</b>	2005 <i>LE</i> <sub>23</sub>		8 22.8 37°99	4°2/26.0	18		<b>226591</b>	2004 <i>BY</i> <sub>77</sub>		8 22.8 80°39	0°2/22.9	18	
7 20	22 31.33	-0 1.1	1.846	2.682	14.9	20.3	7 20	22 35.82	-10 27.9	1.462	2.339	15.9	20.1
7 30	22 26.23	+0 23.5	1.776	2.687	11.8	20.1	7 30	22 29.91	-10 31.7	1.404	2.347	11.8	19.9
8 9	22 19.25	+0 32.4	1.728	2.693	8.3	19.9	8 9	22 21.59	-10 45.6	1.366	2.356	7.1	19.7
8 19	22 11.02	+0 26.3	1.705	2.698	5.2	19.7	8 19	22 11.69	-11 5.4	1.354	2.364	2.0	19.4
8 29	22 2.41	+0 7.3	1.708	2.704	4.4	19.7	8 29	22 1.43	-11 26.1	1.367	2.372	3.2	19.5
9 8	21 54.41	-0 20.1	1.737	2.711	6.9	19.9	9 8	21 52.10	-11 42.4	1.406	2.380	8.1	19.8
9 18	21 47.87	-0 51.2	1.792	2.717	10.2	20.1	9 18	21 44.76	-11 50.9	1.469	2.388	12.5	20.1
9 28	21 43.43	-1 21.2	1.870	2.724	13.4	20.3	9 28	21 40.13	-11 49.3	1.554	2.396	16.2	20.3
<b>355640</b>	2008 <i>EB</i> <sub>40</sub>		8 22.8 60°89	3°8/26.9	18		<b>469947</b>	2006 <i>BR</i> <sub>110</sub>		8 22.8 306°05	1°8/21.5	18	
7 20	22 27.06	+2 51.3	2.081	2.905	13.9	20.6	7 20	22 30.99	-13 30.0	1.469	2.361	15.1	21.1
7 30	22 22.93	+2 32.4	2.010	2.911	11.1	20.4	7 30	22 26.74	-14 2.8	1.386	2.339	11.2	20.8
8 9	22 17.21	+1 55.2	1.960	2.918	7.9	20.2	8 9	22 19.97	-14 45.6	1.324	2.317	6.7	20.5
8 19	22 10.44	+1 1.6	1.934	2.925	4.9	20.1	8 19	22 11.32	-15 32.8	1.286	2.296	2.2	20.2
8 29	22 3.36	-0 4.5	1.936	2.932	3.9	20.0	8 29	22 1.90	-16 17.2	1.273	2.275	4.3	20.3
9 8	21 56.77	-1 17.3	1.965	2.940	6.1	20.2	9 8	21 53.02	-16 51.6	1.285	2.254	9.3	20.5
9 18	21 51.39	-2 30.8	2.020	2.947	9.1	20.4	9 18	21 45.91	-17 11.5	1.320	2.234	14.0	20.7
9 28	21 47.79	-3 39.2	2.100	2.954	12.1	20.6	9 28	21 41.52	-17 14.3	1.375	2.214	18.1	21.0
<b>250747</b>	2005 <i>SS</i> <sub>169</sub>		8 22.8 298°14	0°1/22.8	18		<b>137323</b>	1999 <i>TF</i> <sub>35</sub>		8 22.8 299°45	11°1/1.6	18	
7 20	22 30.11												

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>476776</b>	2008 <i>UH</i> <sub>126</sub>	8 22.8 230°00		2°1/24.6 18			<b>264958</b>	2002 <i>XW</i> <sub>48</sub>	8 22.8 199°95		2°7/25.1 18		
7 20	22 31.42	- 4 6.0	1.953	2.803	13.7	21.6	7 20	22 32.55	- 1 55.1	1.941	2.780	14.2	21.1
7 30	22 26.33	- 4 11.9	1.872	2.797	10.5	21.4	7 30	22 27.18	- 2 5.7	1.860	2.777	11.0	20.9
8 9	22 19.36	- 4 31.1	1.814	2.791	6.9	21.1	8 9	22 19.89	- 2 31.9	1.801	2.774	7.4	20.6
8 19	22 11.09	- 5 1.6	1.781	2.786	3.2	20.9	8 19	22 11.28	- 3 11.5	1.768	2.770	3.8	20.4
8 29	22 2.36	- 5 39.6	1.776	2.779	2.9	20.9	8 29	22 2.19	- 4 0.7	1.763	2.765	3.2	20.4
9 8	21 54.13	- 6 20.2	1.798	2.773	6.5	21.1	9 8	21 53.61	- 4 54.0	1.785	2.760	6.5	20.6
9 18	21 47.25	- 6 58.5	1.846	2.767	10.2	21.3	9 18	21 46.41	- 5 45.9	1.833	2.754	10.3	20.8
9 28	21 42.41	- 7 30.6	1.917	2.760	13.5	21.5	9 28	21 41.29	- 6 31.5	1.905	2.748	13.6	21.0
<b>342208</b>	2008 <i>SK</i> <sub>236</sub>	8 22.8 246°45		0°6/23.3 18			<b>86173</b>	1999 <i>RH</i> <sub>212</sub>	8 22.8 302°08		4°1/26.6 18		
7 20	22 31.67	- 8 9.6	1.867	2.732	13.6	21.6	7 20	22 28.55	+ 1 47.6	2.143	2.967	13.5	19.6
7 30	22 26.62	- 8 29.5	1.787	2.724	10.2	21.4	7 30	22 24.10	+ 1 57.5	2.058	2.960	10.8	19.4
8 9	22 19.59	- 9 0.7	1.729	2.715	6.2	21.1	8 9	22 18.00	+ 1 51.7	1.994	2.953	7.8	19.2
8 19	22 11.17	- 9 39.9	1.697	2.707	2.0	20.8	8 19	22 10.74	+ 1 30.9	1.956	2.945	5.1	19.0
8 29	22 2.27	-10 22.2	1.693	2.698	2.6	20.9	8 29	22 3.06	+ 0 57.3	1.944	2.938	4.2	19.0
9 8	21 53.88	-11 2.2	1.716	2.689	6.9	21.1	9 8	21 55.79	+ 0 15.0	1.959	2.931	6.3	19.1
9 18	21 46.91	-11 35.4	1.764	2.680	10.9	21.4	9 18	21 49.68	- 0 31.1	2.000	2.925	9.4	19.3
9 28	21 42.10	-11 58.6	1.835	2.671	14.3	21.6	9 28	21 45.37	- 1 15.9	2.066	2.918	12.3	19.4
<b>444308</b>	2005 <i>VE</i> <sub>94</sub>	8 22.8 176°48		0°3/22.5 18			<b>420452</b>	2012 <i>DJ</i> <sub>59</sub>	8 22.8 232°07		5°4/19.5 17		
7 20	22 29.36	-10 44.5	2.705	3.565	10.0	22.1	7 20	22 39.40	-23 7.6	1.481	2.371	15.1	21.0
7 30	22 24.31	-11 10.1	2.630	3.566	7.4	21.9	7 30	22 32.81	-23 44.2	1.418	2.367	11.3	20.7
8 9	22 17.92	-11 42.1	2.580	3.568	4.4	21.7	8 9	22 23.48	-24 19.0	1.377	2.362	7.6	20.5
8 19	22 10.66	-12 17.4	2.558	3.568	1.2	21.5	8 19	22 12.30	-24 44.0	1.360	2.358	5.4	20.4
8 29	22 3.15	-12 52.5	2.565	3.569	2.1	21.6	8 29	22 0.62	-24 52.1	1.369	2.354	7.2	20.5
9 8	21 56.03	-13 23.9	2.601	3.569	5.3	21.8	9 8	21 49.93	-24 39.7	1.404	2.349	11.0	20.7
9 18	21 49.90	-13 49.1	2.665	3.569	8.2	22.0	9 18	21 41.46	-24 6.8	1.461	2.344	14.9	20.9
9 28	21 45.26	-14 6.1	2.753	3.568	10.7	22.1	9 28	21 36.02	-23 16.2	1.537	2.339	18.2	21.1
<b>378692</b>	2008 <i>KO</i> <sub>10</sub>	8 22.8 85°75		0°8/23.5 17			<b>264979</b>	2003 <i>BB</i> <sub>53</sub>	8 22.8 236°98		3°6/23.9 16		
7 20	22 31.47	- 6 19.5	1.529	2.400	15.7	21.2	7 20	22 48.10	- 8 13.4	1.136	2.005	20.2	19.9
7 30	22 26.62	- 6 58.7	1.472	2.411	11.7	21.0	7 30	22 39.96	- 6 52.7	1.065	2.000	15.6	19.6
8 9	22 19.61	- 7 53.6	1.435	2.422	7.2	20.7	8 9	22 28.16	- 5 39.6	1.013	1.994	10.2	19.3
8 19	22 11.17	- 8 59.1	1.424	2.433	2.4	20.5	8 19	22 13.70	- 4 35.2	0.984	1.989	4.9	19.0
8 29	22 2.37	-10 8.0	1.438	2.444	2.9	20.5	8 29	21 58.31	- 3 40.2	0.981	1.983	5.0	19.0
9 8	21 54.37	-11 12.7	1.479	2.455	7.6	20.8	9 8	21 44.04	- 2 53.7	1.003	1.977	10.4	19.2
9 18	21 48.12	-12 7.2	1.544	2.465	11.8	21.1	9 18	21 32.64	- 2 14.2	1.048	1.971	15.9	19.5
9 28	21 44.31	-12 47.5	1.631	2.476	15.4	21.4	9 28	21 25.19	- 1 38.3	1.112	1.964	20.5	19.8
<b>500214</b>	2012 <i>HC</i> <sub>42</sub>	8 22.8 132°22		1°2/21.9 17			<b>85109</b>	3892 <i>T</i> <sub>-3</sub>	8 22.8 91°92		4°7/28.0 18		
7 20	22 35.22	-12 8.5	1.685	2.559	14.3	21.8	7 20	22 27.61	+ 6 0.7	2.061	2.867	14.6	19.2
7 30	22 29.22	-12 46.2	1.626	2.570	10.5	21.6	7 30	22 23.37	+ 5 36.0	1.989	2.877	11.8	19.0
8 9	22 21.09	-13 32.5	1.591	2.581	6.2	21.3	8 9	22 17.52	+ 4 50.4	1.939	2.886	8.8	18.8
8 19	22 11.57	-14 22.0	1.581	2.591	1.8	21.1	8 19	22 10.60	+ 3 45.3	1.912	2.895	5.9	18.7
8 29	22 1.72	-15 8.2	1.599	2.601	3.5	21.2	8 29	22 3.37	+ 2 25.0	1.913	2.904	4.7	18.6
9 8	21 52.69	-15 45.5	1.643	2.610	7.9	21.5	9 8	21 56.65	+ 0 55.8	1.941	2.914	6.4	18.8
9 18	21 45.41	-16 10.4	1.713	2.619	11.8	21.8	9 18	21 51.16	+ 0 35.2	1.996	2.923	9.3	18.9
9 28	21 40.55	-16 21.3	1.804	2.627	15.1	22.0	9 28	21 47.49	- 2 1.5	2.076	2.931	12.1	19.2
<b>290167</b>	2005 <i>RM</i> <sub>20</sub>	8 22.8 340°78		5°2/26.9 18			<b>346902</b>	2009 <i>UJ</i> <sub>1</sub>	8 22.8 38°37		18°5/ 8.4 16		
7 20	22 29.01	+ 2 35.7	1.823	2.652	15.3	20.5	7 20	22 30.97	+26 0.1	1.160	1.890	27.6	20.2
7 30	22 24.68	+ 3 2.0	1.743	2.646	12.4	20.3	7 30	22 27.30	+27 49.4	1.104	1.894	25.5	20.1
8 9	22 18.45	+ 3 10.6	1.684	2.641	9.2	20.1	8 9	22 20.58	+28 55.5	1.058	1.898	23.2	19.9
8 19	22 10.87	+ 3 1.1	1.649	2.635	6.2	19.9	8 19	22 11.58	+29 9.0	1.026	1.902	20.9	19.8
8 29	22 2.81	+ 2 35.6	1.639	2.631	5.3	19.8	8 29	22 1.70	+28 24.8	1.009	1.906	19.2	19.7
9 8	21 55.25	+ 1 58.3	1.655	2.626	7.3	19.9	9 8	21 52.66	+26 46.3	1.008	1.911	18.5	19.7
9 18	21 49.07	+ 1 14.8	1.696	2.623	10.6	20.1	9 18	21 45.98	+24 25.1	1.026	1.916	19.1	19.7
9 28	21 44.97	+ 0 31.1	1.759	2.619	13.7	20.3	9 28	21 42.73	+21 38.3	1.061	1.922	20.7	19.9
<b>425536</b>	2010 <i>PE</i> <sub>26</sub>	8 22.8 261°71		4°1/31.1 17			<b>94253</b>	2001 <i>CN</i> <sub>28</sub>	8 22.8 137°89		2°0/20.8 18		
7 20	22 21.67	+12 57.4	4.609	5.334	8.2	21.0	7 20	22 32.46	-17 43.4	2.569	3.440	10.1	19.9
7 30	22 18.30	+13 2.0	4.512	5.328	7.1	20.9	7 30	22 26.59	-18 3.7	2.505	3.447	7.4	19.7
8 9	22 14.20	+12 55.5	4.436	5.322	5.8	20.8	8 9	22 19.28	-18 25.5	2.466	3.454	4.4	19.5
8 19	22 9.62	+12 38.0	4.386	5.316	4.7	20.7	8 19	22 11.07	-18 45.3	2.455	3.461	2.1	19.4
8 29	22 4.87	+12 10.1	4.362	5.309	4.2	20.7	8 29	22 2.64	-18 59.7	2.473	3.468	3.4	19.5
9 8	22 0.30	+11 33.6	4.366	5.303	4.4	20.7	9 8	21 54.75	-19 6.0	2.520	3.474	6.2	19.7
9 18	21 56.21	+10 50.6	4.398	5.297	5.3	20.8	9 18	21 48.03	-19 2.8	2.593	3.480	9.0	19.9
9 28	21 52.91	+10 3.8	4.456	5.290	6.6	20.9	9 28	21 42.98	-18 49.9	2.690	3.486	11.4	20.1
<b>513875</b>	2013 <i>JF</i> <sub>60</sub>	8 22.8 75°36		5°3/17.2 18			<b>481269</b>	2005 <i>XG</i> <sub>92</sub>	8 22.8 215°11		7°5/ 2.6 17		
7 20	22 30.82	-26 51.8	2.309	3.193	10.6	21.0	7 20	22 29.66	+21 37.8	3.483	4.135	11.8	22.0
7 30	22 25.67	-27 49.9	2.255	3.196	8.1	20.9	7 30	22 24.46	+22 15.1	3.381	4.125	10.6	21.9
8 9	22 18.84	-28 44.2	2.226	3.200	6.0	20.7	8 9	22 18.03	+22 35.7	3.299	4.115	9.4	21.8
8 19	22 10.94	-29 29.0	2.223	3.204	5.4	20.7	8 19	22 10.74	+22 37.8	3.239	4.104	8.3	21.7
8 29	22 2.77	-29 59.4	2.247	3.208	6.7	20.8	8 29	22 3.09	+22 21.0	3.203	4.092	7.6	21.6
9 8	21 55.21	-30 12.4	2.298	3.212	8.9	20.9	9 8	21 55.65	+21 46.6	3.194	4.080	7.6	21.6
9 18	21 48.99	-30 7.4	2.372	3.216	11.3	21.1	9 18	21 48.95	+20 57.5	3.211	4.067	8.3	21.7
9 28	21 44.67	-29 45.7	2.468	3.220	13.5	21.3	9 28	21 43.48	+19 58.0	3.252	4.053	9.5	21.7
<b>69665</b>	1998 <i>FQ</i> <sub>122</sub>	8 22.8 9°75		9°9/18.2 18			<b>258011</b>	2001 <i>FS</i> <sub>73</sub>	8 22.8 155°36		4°1/19.7 17		
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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>223335</b>	2003 QN <sub>74</sub>		8 22.8 351°52	2°7/25.2	18		<b>476984</b>	2008 YA <sub>65</sub>		8 22.8 6°75	5°9/18.5	16	
7 20	22 25.92	- 2 29.6	1.763	2.622	14.5	19.4	7 20	22 27.05	-20 52.9	1.197	2.113	15.9	20.0
7 30	22 22.44	- 2 39.9	1.688	2.616	11.2	19.2	7 30	22 24.01	-22 7.7	1.150	2.114	11.8	19.7
8 9	22 17.12	- 3 6.6	1.634	2.611	7.5	19.0	8 9	22 18.33	-23 24.9	1.124	2.116	7.8	19.5
8 19	22 10.52	- 3 47.5	1.604	2.606	3.8	18.8	8 19	22 10.89	-24 34.0	1.120	2.120	5.9	19.4
8 29	22 3.48	- 4 38.2	1.599	2.603	3.2	18.7	8 29	22 3.02	-25 25.0	1.139	2.125	8.1	19.6
9 8	21 56.97	- 5 32.9	1.621	2.600	6.6	18.9	9 8	21 56.15	-25 51.3	1.181	2.131	12.1	19.8
9 18	21 51.82	- 6 25.6	1.668	2.598	10.5	19.1	9 18	21 51.41	-25 51.5	1.242	2.139	16.0	20.1
9 28	21 48.71	- 7 11.0	1.737	2.597	13.9	19.4	9 28	21 49.55	-25 26.9	1.322	2.148	19.4	20.3
<b>130957</b>	2000 WS <sub>95</sub>		8 22.8 281°09	0°4/23.1	18		<b>220848</b>	2004 VK <sub>26</sub>		8 22.8 318°09	4°7/27.3	18	
7 20	22 31.02	- 8 28.9	1.746	2.616	14.1	20.2	7 20	22 27.90	+ 3 40.8	2.157	2.973	13.7	19.9
7 30	22 26.37	- 8 52.1	1.659	2.599	10.6	19.9	7 30	22 23.64	+ 3 53.8	2.072	2.966	11.1	19.7
8 9	22 19.58	- 9 27.7	1.595	2.582	6.5	19.7	8 9	22 17.74	+ 3 50.2	2.009	2.959	8.3	19.5
8 19	22 11.24	-10 12.1	1.555	2.565	2.0	19.3	8 19	22 10.71	+ 3 30.0	1.969	2.952	5.7	19.4
8 29	22 2.27	-11 0.0	1.542	2.548	2.8	19.4	8 29	22 3.26	+ 2 55.4	1.956	2.946	4.8	19.3
9 8	21 53.76	-11 45.1	1.556	2.530	7.4	19.6	9 8	21 56.22	+ 2 10.5	1.970	2.940	6.5	19.4
9 18	21 46.73	-12 22.5	1.595	2.513	11.7	19.8	9 18	21 50.31	+ 1 20.1	2.010	2.934	9.3	19.6
9 28	21 41.98	-12 48.3	1.655	2.495	15.5	20.0	9 28	21 46.17	+ 0 29.7	2.073	2.928	12.2	19.7
<b>199182</b>	2005 YD <sub>246</sub>		8 22.8 252°27	1°8/24.3	18		<b>509872</b>	2009 BD <sub>4</sub>		8 22.8 208°11	4°0/26.9	18	
7 20	22 30.65	- 4 29.8	1.744	2.603	14.7	21.3	7 20	22 31.36	+ 3 4.1	2.542	3.344	12.3	22.2
7 30	22 25.97	- 4 48.7	1.668	2.598	11.2	21.1	7 30	22 25.95	+ 3 10.9	2.450	3.338	9.9	22.0
8 9	22 19.26	- 5 23.0	1.612	2.593	7.2	20.8	8 9	22 19.03	+ 3 3.3	2.381	3.331	7.2	21.8
8 19	22 11.13	- 6 9.7	1.582	2.588	3.1	20.6	8 19	22 11.06	+ 2 42.0	2.338	3.323	4.8	21.7
8 29	22 2.50	- 7 3.8	1.578	2.583	2.8	20.5	8 29	22 2.70	+ 2 8.8	2.324	3.314	4.1	21.6
9 8	21 54.43	- 7 59.1	1.601	2.578	7.0	20.8	9 8	21 54.68	+ 1 27.3	2.338	3.305	5.8	21.7
9 18	21 47.84	- 8 49.6	1.649	2.572	11.0	21.0	9 18	21 47.68	+ 0 41.6	2.379	3.296	8.5	21.9
9 28	21 43.48	- 9 30.8	1.720	2.567	14.6	21.2	9 28	21 42.27	- 0 3.9	2.446	3.285	11.1	22.0
<b>273399</b>	2006 VJ <sub>129</sub>		8 22.8 274°24	3°2/20.5	18		<b>304767</b>	2007 DA <sub>38</sub>		8 22.8 62°56	0°3/22.9	17	
7 20	22 34.61	-17 3.4	1.599	2.486	14.3	20.9	7 20	22 37.16	- 9 31.6	1.071	1.962	19.4	20.9
7 30	22 29.33	-17 47.0	1.514	2.465	10.6	20.6	7 30	22 31.37	- 9 40.9	1.030	1.980	14.3	20.7
8 9	22 21.51	-18 37.0	1.452	2.443	6.5	20.3	8 9	22 22.63	-10 4.7	1.007	1.998	8.6	20.4
8 19	22 11.81	-19 26.6	1.415	2.422	3.3	20.1	8 19	22 12.07	-10 37.1	1.006	2.017	2.5	20.1
8 29	22 1.34	-20 8.3	1.405	2.400	5.4	20.2	8 29	22 1.25	-11 10.8	1.030	2.035	3.7	20.3
9 8	21 51.40	-20 35.6	1.419	2.377	9.8	20.4	9 8	21 51.81	-11 38.5	1.076	2.054	9.4	20.6
9 18	21 43.23	-20 45.2	1.458	2.355	14.1	20.6	9 18	21 44.96	-11 55.5	1.145	2.073	14.4	21.0
9 28	21 37.76	-20 36.2	1.516	2.332	17.8	20.8	9 28	21 41.40	-11 59.3	1.233	2.091	18.5	21.3
<b>280310</b>	2003 QD <sub>70</sub>		8 22.8 338°42	7°6/15.8	18		<b>326744</b>	2003 QH <sub>75</sub>		8 22.8 318°75	4°1/27.1	17	
7 20	22 21.48	-20 59.0	1.119	2.045	15.9	18.7	7 20	22 24.54	+ 3 33.4	1.947	2.776	14.5	20.3
7 30	22 20.32	-23 9.4	1.053	2.021	12.0	18.4	7 30	22 21.45	+ 3 6.3	1.846	2.751	11.7	20.0
8 9	22 16.42	-25 30.2	1.007	1.999	8.6	18.1	8 9	22 16.59	+ 2 17.1	1.767	2.727	8.5	19.8
8 19	22 10.43	-27 47.0	0.984	1.978	7.9	18.0	8 19	22 10.43	+ 1 7.0	1.711	2.702	5.4	19.6
8 29	22 3.57	-29 43.4	0.983	1.959	10.8	18.3	8 29	22 3.70	- 0 20.2	1.681	2.679	4.2	19.4
9 8	21 57.41	-31 6.9	1.003	1.941	15.1	18.3	9 8	21 57.27	- 1 57.8	1.678	2.656	6.6	19.5
9 18	21 53.35	-31 51.5	1.041	1.926	19.4	18.5	9 18	21 52.00	- 3 37.9	1.701	2.633	10.2	19.7
9 28	21 52.46	-31 57.4	1.095	1.912	23.1	18.7	9 28	21 48.62	- 5 12.7	1.748	2.611	13.7	19.9
<b>152794</b>	1999 TL <sub>85</sub>		8 22.8 284°22	4°3/27.3	18		<b>293448</b>	2007 EA <sub>173</sub>		8 22.8 177°34	3°0/26.3	18	
7 20	22 27.13	+ 3 44.2	2.268	3.082	13.2	20.1	7 20	22 27.09	+ 1 1.9	2.435	3.258	12.1	20.5
7 30	22 23.01	+ 3 40.4	2.178	3.072	10.7	19.9	7 30	22 22.83	+ 0 43.9	2.355	3.259	9.6	20.4
8 9	22 17.34	+ 3 19.6	2.110	3.062	7.9	19.7	8 9	22 17.15	+ 0 11.2	2.297	3.259	6.7	20.2
8 19	22 10.58	+ 2 42.5	2.067	3.052	5.3	19.5	8 19	22 10.54	- 0 34.4	2.265	3.259	4.0	20.0
8 29	22 3.41	+ 1 51.6	2.050	3.042	4.3	19.5	8 29	22 3.61	- 1 29.8	2.261	3.259	3.2	20.0
9 8	21 56.59	+ 0 51.5	2.061	3.033	6.1	19.6	9 8	21 57.07	- 2 30.4	2.285	3.259	5.4	20.1
9 18	21 50.84	- 0 12.5	2.098	3.023	9.0	19.7	9 18	21 51.54	- 3 31.3	2.336	3.259	8.3	20.3
9 28	21 46.76	- 1 14.8	2.160	3.013	11.8	19.9	9 28	21 47.57	- 4 28.1	2.413	3.259	11.0	20.5
<b>240607</b>	2004 VW <sub>91</sub>		8 22.8 321°23	4°6/26.5	18		<b>490358</b>	2009 FP <sub>57</sub>		8 22.8 334°69	22°7/12.6	17	
7 20	22 26.31	+ 1 51.4	1.454	2.306	17.4	19.8	7 20	23 1.40	-53 35.6	0.945	1.793	24.8	20.3
7 30	22 23.21	+ 1 40.1	1.370	2.290	13.9	19.6	7 30	22 51.94	-55 5.0	0.915	1.787	23.5	20.2
8 9	22 17.84	+ 1 4.0	1.305	2.274	9.9	19.3	8 9	22 35.89	-55 51.7	0.899	1.781	22.7	20.1
8 19	22 10.79	+ 0 4.0	1.263	2.259	6.0	19.0	8 19	22 15.78	-55 36.0	0.897	1.776	22.9	20.1
8 29	22 3.04	- 1 15.1	1.244	2.244	4.8	18.9	8 29	21 55.80	-54 7.8	0.910	1.772	23.9	20.2
9 8	21 55.78	- 2 45.0	1.250	2.230	8.0	19.1	9 8	21 39.85	-51 33.6	0.938	1.768	25.6	20.3
9 18	21 50.14	- 4 16.2	1.280	2.217	12.4	19.3	9 18	21 29.88	-48 10.1	0.980	1.765	27.6	20.4
9 28	21 46.98	- 5 39.5	1.331	2.204	16.5	19.5	9 28	21 26.09	-44 16.2	1.035	1.763	29.5	20.6
<b>374771</b>	2006 SO <sub>347</sub>		8 22.8 194°42	2°9/25.4	18		<b>217370</b>	2004 TQ <sub>166</sub>		8 22.8 10°56	0°2/22.9	18	
7 20	22 32.47	- 0 45.4	1.980	2.814	14.2	21.8	7 20	22 28.35	- 9 36.7	1.626	2.508	14.4	20.0
7 30	22 27.10	- 1 3.9	1.899	2.811	11.0	21.6	7 30	22 24.30	- 9 51.4	1.564	2.511	10.7	19.7
8 9	22 19.85	- 1 39.1	1.839	2.809	7.5	21.4	8 9	22 18.24	-10 16.8	1.525	2.514	6.4	19.5
8 19	22 11.30	- 2 28.9	1.806	2.805	4.0	21.2	8 19	22 10.86	-10 49.0	1.509	2.519	1.9	19.2
8 29	22 2.28	- 3 28.9	1.800	2.801	3.3	21.1	8 29	22 3.14	-11 22.7	1.519	2.525	2.8	19.3
9 8	21 53.75	- 4 33.5	1.822	2.796	6.5	21.3	9 8	21 56.10	-11 52.6	1.555	2.531	7.3	19.6
9 18	21 46.57	- 5 36.6	1.870	2.791	10.1	21.5	9 18	21 50.64	-12 14.7	1.616	2.538	11.3	19.9
9 28	21 41.43	- 6 32.9	1.943	2.785	13.4	21.7	9 28	21 47.42	-12 26.0	1.697	2.546	14.7	20.1
<b>124046</b>	2001 FP <sub>141</sub>		8 22.8 105°00	3°4/19.3	18		<b>267277</b>	2001 RT <sub>114</sub>		8 22.8 339°30	3°8/20.5	18	
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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>43312</b>	2000 <i>HB</i> <sub>68</sub>		8 22.8 75°24	0°1/22.8	18		<b>448687</b>	2010 <i>WB</i> <sub>37</sub>		8 22.8 352°78	13°7/	7.5	17
7 20	22 31.78	- 7 40.3	1.264	2.149	17.4	19.1	7 20	22 30.48	-43 38.5	1.539	2.415	15.4	19.7
7 30	22 27.34	- 8 31.9	1.206	2.153	13.0	18.8	7 30	22 26.81	-45 44.3	1.506	2.407	14.1	19.6
8 9	22 20.30	- 9 41.6	1.168	2.158	7.8	18.6	8 9	22 20.17	-47 29.5	1.494	2.401	13.8	19.6
8 19	22 11.48	-11 2.5	1.153	2.163	2.2	18.2	8 19	22 11.49	-48 42.9	1.503	2.396	14.4	19.6
8 29	22 2.16	-12 25.1	1.163	2.168	3.5	18.3	8 29	22 2.25	-49 16.9	1.531	2.392	15.9	19.7
9 8	21 53.73	-13 39.5	1.198	2.174	9.0	18.7	9 8	21 54.11	-49 9.8	1.577	2.389	17.7	19.8
9 18	21 47.37	-14 38.7	1.256	2.179	13.8	19.0	9 18	21 48.37	-48 25.1	1.639	2.387	19.5	19.9
9 28	21 43.89	-15 18.6	1.333	2.184	17.9	19.3	9 28	21 45.85	-47 8.8	1.715	2.386	21.2	20.1
<b>202194</b>	2004 <i>XV</i> <sub>57</sub>		8 22.8 231°39	1°0/23.7	18		<b>247732</b>	2003 <i>HZ</i> <sub>18</sub>		8 22.8 16°66	8°4/15.9	18	
7 20	22 30.93	- 6 46.6	1.868	2.730	13.7	20.6	7 20	22 33.16	-32 11.9	1.701	2.591	13.4	19.5
7 30	22 26.06	- 7 7.9	1.792	2.727	10.3	20.4	7 30	22 27.98	-33 18.5	1.659	2.595	10.8	19.3
8 9	22 19.28	- 7 41.7	1.739	2.723	6.4	20.2	8 9	22 20.47	-34 15.3	1.638	2.600	8.9	19.2
8 19	22 11.18	- 8 24.7	1.711	2.719	2.3	19.9	8 19	22 11.51	-34 54.0	1.642	2.606	8.5	19.2
8 29	22 2.63	- 9 12.0	1.710	2.715	2.6	19.9	8 29	22 2.28	-35 8.4	1.669	2.612	10.0	19.3
9 8	21 54.62	- 9 58.1	1.737	2.712	6.7	20.2	9 8	21 54.02	-34 56.4	1.720	2.619	12.3	19.5
9 18	21 48.03	-10 38.1	1.789	2.707	10.6	20.4	9 18	21 47.70	-34 19.5	1.792	2.626	14.9	19.7
9 28	21 43.54	-11 8.3	1.864	2.703	14.0	20.6	9 28	21 43.97	-33 21.4	1.883	2.634	17.1	19.9
<b>100879</b>	1998 <i>HC</i> <sub>91</sub>		8 22.8 87°52	1°3/21.8	17		<b>47236</b>	1999 <i>VU</i> <sub>48</sub>		8 22.8 287°31	4°4/19.9	18	
7 20	22 34.64	-11 12.9	1.459	2.340	15.8	20.1	7 20	22 35.53	-19 51.1	1.434	2.329	15.2	17.9
7 30	22 28.95	-12 9.1	1.414	2.362	11.5	19.9	7 30	22 30.15	-20 31.9	1.364	2.317	11.3	17.6
8 9	22 20.99	-13 16.0	1.392	2.383	6.7	19.7	8 9	22 22.06	-21 15.5	1.315	2.306	7.2	17.3
8 19	22 11.62	-14 26.3	1.395	2.405	2.0	19.5	8 19	22 12.04	-21 54.2	1.291	2.294	4.4	17.1
8 29	22 2.03	-15 31.8	1.424	2.426	3.9	19.6	8 29	22 1.37	-22 20.1	1.291	2.283	6.5	17.2
9 8	21 53.44	-16 25.6	1.479	2.447	8.4	20.0	9 8	21 51.50	-22 27.8	1.317	2.271	10.7	17.5
9 18	21 46.81	-17 3.6	1.558	2.467	12.6	20.3	9 18	21 43.70	-22 15.5	1.364	2.260	14.9	17.7
9 28	21 42.80	-17 24.2	1.658	2.487	15.9	20.5	9 28	21 38.84	-21 44.1	1.431	2.249	18.6	17.9
<b>58776</b>	1998 <i>FG</i> <sub>60</sub>		8 22.8 50°99	3°7/19.7	18		<b>220826</b>	2004 <i>TO</i> <sub>325</sub>		8 22.8 313°13	1°7/20.9	18	
7 20	22 32.71	-20 51.6	1.971	2.856	12.1	19.1	7 20	22 25.58	-10 50.2	1.912	2.793	12.6	19.6
7 30	22 27.22	-21 27.0	1.913	2.861	8.9	18.9	7 30	22 22.31	-12 17.7	1.820	2.769	9.2	19.3
8 9	22 19.87	-22 2.5	1.878	2.866	5.7	18.7	8 9	22 17.18	-13 59.7	1.752	2.745	5.4	19.1
8 19	22 11.31	-22 32.7	1.870	2.871	3.7	18.6	8 19	22 10.66	-15 49.9	1.711	2.720	1.9	18.8
8 29	22 2.48	-22 52.5	1.889	2.876	5.2	18.7	8 29	22 3.53	-17 40.0	1.697	2.697	3.9	18.9
9 8	21 54.36	-22 58.5	1.935	2.882	8.3	18.9	9 8	21 56.72	-19 21.3	1.711	2.673	8.1	19.1
9 18	21 47.76	-22 49.8	2.005	2.887	11.5	19.1	9 18	21 51.13	-20 46.8	1.751	2.650	11.9	19.3
9 28	21 43.30	-22 26.8	2.097	2.893	14.2	19.3	9 28	21 47.54	-21 52.2	1.812	2.627	15.3	19.4
<b>200383</b>	2000 <i>QG</i> <sub>175</sub>		8 22.8 3°95	2°8/25.1	17		<b>21663</b>	Banar		8 22.8 10°31	1°9/24.7	18	
7 20	22 26.44	- 1 56.3	1.291	2.165	17.8	19.1	7 20	22 25.86	- 2 51.1	1.779	2.639	14.4	18.1
7 30	22 23.36	- 2 23.6	1.227	2.164	13.8	18.8	7 30	22 22.37	- 3 29.6	1.710	2.641	11.0	17.9
8 9	22 17.92	- 3 14.3	1.183	2.164	9.1	18.6	8 9	22 17.09	- 4 25.6	1.663	2.643	7.1	17.6
8 19	22 10.83	- 4 24.6	1.160	2.165	4.4	18.3	8 19	22 10.59	- 5 35.1	1.640	2.646	3.2	17.4
8 29	22 3.21	- 5 47.2	1.162	2.167	3.6	18.2	8 29	22 3.72	- 6 52.4	1.644	2.649	2.7	17.4
9 8	21 56.35	- 7 12.1	1.188	2.170	8.0	18.5	9 8	21 57.40	- 8 10.1	1.675	2.653	6.5	17.6
9 18	21 51.31	- 8 30.2	1.237	2.174	12.7	18.8	9 18	21 52.43	- 9 21.8	1.731	2.658	10.4	17.9
9 28	21 48.90	- 9 34.3	1.306	2.178	16.8	19.1	9 28	21 49.47	-10 22.0	1.809	2.663	13.7	18.1
<b>137863</b>	2000 <i>AQ</i> <sub>66</sub>		8 22.8 216°51	2°7/20.4	18		<b>87612</b>	2000 <i>RN</i> <sub>45</sub>		8 22.8 305°86	2°8/24.7	18	
7 20	22 33.44	-15 51.1	1.900	2.779	12.7	20.4	7 20	22 30.97	- 4 13.0	1.519	2.384	16.1	18.8
7 30	22 28.00	-16 52.4	1.825	2.772	9.3	20.1	7 30	22 26.79	- 4 4.2	1.422	2.355	12.6	18.5
8 9	22 20.49	-18 0.3	1.774	2.764	5.6	19.9	8 9	22 20.14	- 4 11.3	1.345	2.326	8.4	18.2
8 19	22 11.53	-19 8.5	1.749	2.755	2.8	19.7	8 19	22 11.56	- 4 33.2	1.292	2.296	4.1	17.8
8 29	22 2.06	-20 10.0	1.752	2.746	4.7	19.8	8 29	22 2.04	- 5 6.4	1.263	2.267	3.7	17.7
9 8	21 53.13	-20 58.6	1.782	2.736	8.4	20.0	9 8	21 52.87	- 5 45.3	1.260	2.239	8.1	17.9
9 18	21 45.69	-21 31.0	1.838	2.725	12.1	20.2	9 18	21 45.28	- 6 23.6	1.280	2.210	13.0	18.1
9 28	21 40.48	-21 45.7	1.915	2.714	15.2	20.4	9 28	21 40.30	- 6 55.3	1.321	2.183	17.3	18.3
<b>470719</b>	2008 <i>UZ</i> <sub>17</sub>		8 22.8 281°60	3°5/20.2	18		<b>157325</b>	2004 <i>TF</i> <sub>7</sub>		8 22.8 343°15	2°8/19.9	18	
7 20	22 33.04	-18 20.0	1.705	2.593	13.5	21.6	7 20	22 26.84	-15 42.0	1.889	2.779	12.3	19.1
7 30	22 27.94	-19 3.4	1.629	2.580	10.0	21.4	7 30	22 23.11	-16 53.3	1.821	2.774	8.9	18.9
8 9	22 20.56	-19 50.9	1.576	2.567	6.2	21.1	8 9	22 17.54	-18 11.6	1.777	2.769	5.4	18.7
8 19	22 11.57	-20 36.1	1.549	2.553	3.5	20.9	8 19	22 10.73	-19 30.3	1.759	2.765	2.9	18.5
8 29	22 2.01	-21 12.1	1.548	2.540	5.4	21.0	8 29	22 3.49	-20 42.2	1.768	2.761	4.7	18.6
9 8	21 53.06	-21 33.7	1.572	2.527	9.3	21.2	9 8	21 56.78	-21 41.1	1.803	2.758	8.3	18.9
9 18	21 45.79	-21 38.2	1.621	2.513	13.1	21.4	9 18	21 51.43	-22 23.1	1.863	2.755	11.7	19.1
9 28	21 40.97	-21 25.4	1.690	2.500	16.5	21.6	9 28	21 48.09	-22 46.4	1.944	2.752	14.7	19.3
<b>429430</b>	2010 <i>UT</i> <sub>93</sub>		8 22.8 222°95	0°7/23.4	17		<b>314464</b>	2005 <i>WR</i> <sub>32</sub>		8 22.8 329°25	5°4/17.6	18	
7 20	22 35.07	- 7 59.4	1.818	2.678	14.1	22.4	7 20	22 30.03	-24 32.5	1.969	2.860	11.8	20.3
7 30	22 29.25	- 8 13.6	1.735	2.669	10.6	22.2	7 30	22 25.45	-25 38.4	1.907	2.854	8.9	20.1
8 9	22 21.27	- 8 39.2	1.675	2.660	6.6	21.9	8 9	22 18.93	-26 42.9	1.868	2.849	6.4	19.9
8 19	22 11.77	- 9 13.0	1.641	2.650	2.2	21.6	8 19	22 11.11	-27 39.2	1.855	2.844	5.4	19.9
8 29	22 1.70	- 9 50.3	1.634	2.639	2.7	21.7	8 29	22 2.90	-28 20.8	1.869	2.839	7.0	19.9
9 8	21 52.16	-10 25.8	1.655	2.628	7.2	21.9	9 8	21 55.28	-28 43.5	1.908	2.834	9.8	20.1
9 18	21 44.16	-10 55.0	1.701	2.616	11.3	22.1	9 18	21 49.14	-28 45.9	1.970	2.829	12.7	20.3
9 28	21 38.46	-11 14.7	1.770	2.603	14.9	22.3	9 28	21 45.15	-28 29.0	2.052	2.825	15.2	20.5
<b>448695</b>	2010 <i>XQ</i> <sub>22</sub>		8 22.8 121°67	5°7/16.3	18		<b>360980</b>	2005 <i>UD</i> <sub>291</sub>					

EPHEMERIDES

8 22.8

8 22.9

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>507928</b>	2014 <i>YD</i> <sub>54</sub>		8 22.8 158°58'	6°5/17.9	17		<b>276081</b>	2002 <i>CG</i> <sub>270</sub>		8 22.9 341°29'	0°7/22.1	18	
7 20	22 35.11	-24 0.6	1.485	2.381	14.6	21.7	7 20	22 27.41	-9 54.0	2.093	2.965	12.0	20.6
7 30	22 29.68	-25 18.2	1.432	2.382	11.1	21.5	7 30	22 23.34	-10 51.4	2.021	2.964	8.8	20.4
8 9	22 21.66	-26 34.6	1.401	2.383	7.8	21.3	8 9	22 17.61	-11 59.2	1.973	2.963	5.2	20.2
8 19	22 11.91	-27 40.1	1.394	2.384	6.5	21.2	8 19	22 10.78	-13 12.6	1.952	2.962	1.4	19.9
8 29	22 1.69	-28 25.7	1.412	2.385	8.4	21.3	8 29	22 3.58	-14 25.4	1.958	2.961	2.8	20.0
9 8	21 52.40	-28 46.5	1.454	2.386	11.8	21.5	9 8	21 56.86	-15 31.8	1.993	2.961	6.6	20.3
9 18	21 45.19	-28 41.7	1.518	2.386	15.3	21.7	9 18	21 51.33	-16 27.1	2.053	2.960	10.1	20.5
9 28	21 40.85	-28 13.7	1.601	2.387	18.3	22.0	9 28	21 47.62	-17 8.5	2.137	2.960	13.1	20.7
<b>154253</b>	2002 <i>LH</i> <sub>39</sub>		8 22.8 59°77'	1°5/24.4	18		<b>80967</b>	2000 <i>DV</i> <sub>111</sub>		8 22.9 235°33'	1°3/23.9	18	
7 20	22 27.23	-3 58.8	2.152	3.003	12.5	19.8	7 20	22 32.56	-5 48.0	1.749	2.609	14.6	20.5
7 30	22 23.04	-4 33.7	2.087	3.014	9.5	19.6	7 30	22 27.49	-6 9.2	1.668	2.600	11.1	20.3
8 9	22 17.34	-5 21.6	2.045	3.024	6.0	19.4	8 9	22 20.29	-6 45.0	1.608	2.591	7.0	20.0
8 19	22 10.65	-6 19.5	2.029	3.035	2.6	19.2	8 19	22 11.58	-7 32.0	1.574	2.582	2.7	19.7
8 29	22 3.69	-7 22.4	2.041	3.046	2.3	19.2	8 29	22 2.29	-8 25.0	1.566	2.572	2.8	19.7
9 8	21 57.24	-8 25.0	2.080	3.057	5.7	19.5	9 8	21 53.53	-9 17.9	1.586	2.561	7.2	20.0
9 18	21 51.96	-9 22.4	2.147	3.068	9.0	19.7	9 18	21 46.27	-10 4.9	1.631	2.551	11.4	20.2
9 28	21 48.41	-10 10.7	2.237	3.079	11.9	19.9	9 28	21 41.31	-10 41.7	1.698	2.540	15.0	20.4
<b>209725</b>	2005 <i>EZ</i> <sub>150</sub>		8 22.8 72°68'	3°0/20.3	18		<b>98197</b>	2000 <i>SQ</i> <sub>117</sub>		8 22.9 8°06'	4°5/20.2	18	
7 20	22 31.61	-17 23.9	1.849	2.735	12.7	20.5	7 20	22 27.78	-16 58.4	0.896	1.821	18.9	18.0
7 30	22 26.58	-18 11.3	1.787	2.737	9.3	20.3	7 30	22 25.15	-17 51.6	0.852	1.822	13.9	17.7
8 9	22 19.59	-19 2.7	1.749	2.739	5.7	20.1	8 9	22 19.33	-18 53.0	0.826	1.824	8.5	17.5
8 19	22 11.30	-19 52.1	1.736	2.742	3.0	19.9	8 19	22 11.33	-19 51.8	0.820	1.827	4.6	17.3
8 29	22 2.66	-20 33.4	1.751	2.744	4.8	20.0	8 29	22 2.81	-20 36.5	0.835	1.833	7.2	17.4
9 8	21 54.69	-21 1.7	1.792	2.747	8.3	20.2	9 8	21 55.55	-20 58.9	0.870	1.840	12.4	17.8
9 18	21 48.25	-21 14.8	1.857	2.749	11.8	20.5	9 18	21 50.91	-20 56.2	0.924	1.849	17.3	18.1
9 28	21 44.00	-21 12.0	1.944	2.752	14.7	20.7	9 28	21 49.71	-20 29.4	0.995	1.859	21.5	18.4
<b>86109</b>	1999 <i>RV</i> <sub>118</sub>		8 22.8 318°14'	3°8/25.8	18 R		<b>235305</b>	2003 <i>UE</i> <sub>97</sub>		8 22.9 5°14'	9°6/16.6	18	
7 20	22 29.91	-0 46.1	1.942	2.781	14.2	18.5	7 20	22 36.52	-32 42.3	1.401	2.295	15.5	19.6
7 30	22 25.33	-0 25.6	1.857	2.770	11.2	18.3	7 30	22 30.91	-33 40.3	1.356	2.295	12.6	19.4
8 9	22 18.89	-0 19.5	1.793	2.759	7.9	18.0	8 9	22 22.44	-34 26.2	1.331	2.296	10.3	19.3
8 19	22 11.14	-0 27.4	1.753	2.748	4.8	17.8	8 19	22 12.16	-34 50.3	1.329	2.297	9.7	19.3
8 29	22 2.88	-0 47.1	1.740	2.738	4.0	17.8	8 29	22 1.54	-34 45.6	1.350	2.299	11.2	19.4
9 8	21 55.06	-1 14.7	1.753	2.728	6.7	17.9	9 8	21 52.17	-34 10.4	1.393	2.302	13.9	19.5
9 18	21 48.53	-1 45.6	1.793	2.718	10.2	18.1	9 18	21 45.22	-33 7.7	1.456	2.306	16.8	19.7
9 28	21 44.00	-2 15.2	1.855	2.709	13.4	18.3	9 28	21 41.41	-31 43.0	1.537	2.311	19.5	19.9
<b>415975</b>	2001 <i>YS</i> <sub>2</sub>		8 22.8 173°61'	11°4/3.5	17		<b>260216</b>	2004 <i>RE</i> <sub>211</sub>		8 22.9 315°36'	5°4/27.6	18	
7 20	22 35.61	+22 44.4	2.107	2.783	18.0	21.9	7 20	22 28.48	+4 32.5	2.053	2.866	14.4	20.2
7 30	22 29.55	+23 40.3	2.027	2.788	16.3	21.7	7 30	22 24.23	+4 54.8	1.965	2.855	11.8	20.0
8 9	22 21.44	+24 9.2	1.964	2.791	14.4	21.6	8 9	22 18.23	+4 59.5	1.898	2.845	9.0	19.8
8 19	22 11.86	+24 7.0	1.920	2.794	12.6	21.5	8 19	22 10.99	+4 46.3	1.855	2.834	6.4	19.6
8 29	22 1.73	+23 32.5	1.898	2.796	11.5	21.4	8 29	22 3.26	+4 16.8	1.837	2.824	5.4	19.5
9 8	21 52.07	+22 28.4	1.901	2.796	11.5	21.4	9 8	21 55.92	+3 34.8	1.846	2.814	7.0	19.6
9 18	21 43.85	+21 1.0	1.927	2.796	12.5	21.5	9 18	21 49.78	+2 45.6	1.881	2.805	9.9	19.8
9 28	21 37.80	+19 19.3	1.976	2.795	14.1	21.6	9 28	21 45.50	+1 54.9	1.939	2.795	12.8	19.9
<b>93517</b>	2000 <i>TF</i> <sub>63</sub>		8 22.8 87°39'	8°2/29.6	18		<b>396453</b>	2014 <i>FU</i> <sub>14</sub>		8 22.9 158°46'	4°1/18.8	18	
7 20	22 31.98	+10 5.6	1.737	2.525	17.6	19.0	7 20	22 34.13	-22 56.1	2.307	3.184	10.9	21.7
7 30	22 26.99	+10 48.0	1.666	2.531	14.9	18.9	7 30	22 28.11	-23 46.3	2.248	3.190	8.1	21.5
8 9	22 19.93	+11 6.4	1.615	2.537	12.0	18.7	8 9	22 20.38	-24 35.4	2.214	3.196	5.4	21.4
8 19	22 11.44	+10 58.9	1.585	2.542	9.4	18.5	8 19	22 11.55	-25 17.7	2.207	3.201	4.1	21.3
8 29	22 2.48	+10 26.6	1.579	2.548	8.2	18.5	8 29	22 2.46	-25 48.5	2.229	3.206	5.5	21.4
9 8	21 54.13	+9 34.1	1.599	2.554	9.1	18.6	9 8	21 53.97	-26 4.5	2.278	3.210	8.1	21.6
9 18	21 47.33	+8 28.4	1.642	2.559	11.5	18.7	9 18	21 46.85	-26 4.7	2.353	3.214	10.8	21.8
9 28	21 42.80	+7 17.6	1.709	2.565	14.3	18.9	9 28	21 41.68	-25 49.8	2.449	3.217	13.2	22.0
<b>396442</b>	2014 <i>EX</i> <sub>50</sub>		8 22.9 92°70'	7°8/14.9	18		<b>178707</b>	2000 <i>SW</i> <sub>183</sub>		8 22.9 335°32'	1°2/21.8	18	
7 20	22 33.18	-31 37.8	1.963	2.846	12.2	20.3	7 20	22 28.96	-12 23.9	1.825	2.706	13.1	20.0
7 30	22 27.79	-33 9.6	1.923	2.856	9.8	20.1	7 30	22 24.72	-13 0.0	1.753	2.701	9.6	19.8
8 9	22 20.33	-34 33.1	1.907	2.865	8.1	20.1	8 9	22 18.55	-13 44.7	1.704	2.695	5.7	19.6
8 19	22 11.52	-35 40.2	1.917	2.875	8.0	20.1	8 19	22 11.08	-14 33.2	1.680	2.690	1.7	19.3
8 29	22 2.41	-36 24.5	1.952	2.884	9.4	20.2	8 29	22 3.17	-15 19.7	1.683	2.685	3.4	19.4
9 8	21 54.10	-36 43.0	2.011	2.893	11.6	20.3	9 8	21 55.82	-15 58.6	1.713	2.681	7.4	19.6
9 18	21 47.49	-36 36.5	2.091	2.902	13.8	20.5	9 18	21 49.90	-16 26.2	1.767	2.677	11.2	19.9
9 28	21 43.22	-36 7.6	2.191	2.911	15.9	20.7	9 28	21 46.08	-16 40.1	1.843	2.673	14.5	20.1
<b>473952</b>	2016 <i>ES</i> <sub>179</sub>		8 22.9 31°16'	0°3/22.9	17		<b>335051</b>	2004 <i>RD</i> <sub>109</sub>		8 22.9 300°85'	2°4/21.1	18	
7 20	22 33.08	-10 14.1	0.969	1.873	19.8	20.2	7 20	22 31.24	-14 39.4	1.529	2.420	14.6	20.7
7 30	22 28.62	-10 14.5	0.930	1.887	14.7	19.9	7 30	22 26.95	-15 22.3	1.445	2.398	10.8	20.4
8 9	22 21.15	-10 29.2	0.908	1.902	8.8	19.7	8 9	22 20.19	-16 14.6	1.384	2.376	6.5	20.1
8 19	22 11.77	-10 52.8	0.908	1.918	2.5	19.4	8 19	22 11.61	-17 9.9	1.346	2.355	2.6	19.8
8 29	22 2.11	-11 17.9	0.929	1.935	3.8	19.5	8 29	22 2.26	-18 0.7	1.334	2.333	4.8	19.9
9 8	21 53.82	-11 37.4	0.973	1.954	9.6	19.9	9 8	21 53.42	-18 39.7	1.347	2.312	9.4	20.1
9 18	21 48.13	-11 46.6	1.038	1.973	14.8	20.3	9 18	21 46.30	-19 2.4	1.383	2.291	13.9	20.3
9 28	21 45.73	-11 42.9	1.121	1.993	19.0	20.6	9 28	21 41.82	-19 6.6	1.439	2.270	17.8	20.5
<b>154684</b>	2004 <i>GO</i> <sub>59</sub>		8 22.9 5°32'	1°0/23.4	18		<b>354171</b>	2002 <i>CF</i> <sub>276</sub>		8 22.9 110°			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>91175</b>	1998 <i>RX</i> <sub>18</sub>		8 22.9	15°53	5°4/20.2	18	<b>430373</b>	2014 <i>BS</i> <sub>54</sub>		8 22.9	263°66	0°3/23.5	17
7 20	22 38.56	-25 46.5	1.498	2.389	14.9	18.1	7 20	22 22.39	-8 15.7	4.402	5.250	6.7	21.4
7 30	22 31.92	-25 42.9	1.449	2.397	11.2	17.9	7 30	22 18.90	-8 34.3	4.319	5.248	5.0	21.3
8 9	22 22.81	-25 32.5	1.422	2.406	7.6	17.7	8 9	22 14.66	-8 57.5	4.262	5.245	3.0	21.2
8 19	22 12.23	-25 9.8	1.419	2.416	5.5	17.6	8 19	22 9.95	-9 24.0	4.234	5.243	1.0	21.0
8 29	22 1.52	-24 31.0	1.442	2.427	6.8	17.7	8 29	22 5.08	-9 51.7	4.235	5.240	1.2	21.0
9 8	21 52.02	-23 35.5	1.490	2.439	10.2	18.0	9 8	22 0.41	-10 18.8	4.266	5.237	3.2	21.2
9 18	21 44.74	-22 25.6	1.562	2.452	13.7	18.2	9 18	21 56.27	-10 43.5	4.325	5.235	5.1	21.3
9 28	21 40.29	-21 4.8	1.654	2.466	16.7	18.4	9 28	21 52.94	-11 4.2	4.411	5.232	6.8	21.4
<b>221030</b>	2005 <i>QO</i> <sub>42</sub>		8 22.9	0°26	1°2/23.8	15	<b>175620</b>	2006 <i>WE</i> <sub>99</sub>		8 22.9	21°07	2°8/19.5	18
7 20	22 26.05	-4 44.4	1.197	2.085	18.0	19.9	7 20	22 26.70	-19 35.2	2.613	3.496	9.6	19.8
7 30	22 23.29	-5 33.6	1.135	2.083	13.6	19.7	7 30	22 22.52	-20 20.8	2.553	3.500	7.0	19.7
8 9	22 18.01	-6 45.8	1.093	2.082	8.5	19.4	8 9	22 17.00	-21 7.7	2.517	3.505	4.4	19.5
8 19	22 10.98	-8 15.2	1.072	2.081	3.0	19.1	8 19	22 10.62	-21 51.5	2.508	3.510	2.8	19.4
8 29	22 3.37	-9 52.1	1.076	2.082	3.2	19.1	8 29	22 4.02	-22 28.3	2.528	3.515	4.1	19.5
9 8	21 56.54	-11 25.1	1.103	2.084	8.7	19.4	9 8	21 57.85	-22 54.6	2.575	3.520	6.7	19.7
9 18	21 51.67	-12 44.5	1.152	2.086	13.7	19.7	9 18	21 52.72	-23 8.8	2.648	3.526	9.2	19.9
9 28	21 49.57	-13 44.2	1.221	2.089	18.0	20.0	9 28	21 49.09	-23 10.2	2.744	3.532	11.4	20.0
<b>436530</b>	2011 <i>FC</i> <sub>142</sub>		8 22.9	127°20	6°2/17.6	17	<b>362350</b>	2010 <i>MD</i> <sub>68</sub>		8 22.9	295°67	1°4/24.4	18
7 20	22 36.82	-26 50.0	1.887	2.769	12.7	22.0	7 20	22 26.27	-2 41.6	2.048	2.899	13.1	20.6
7 30	22 30.40	-27 55.2	1.840	2.781	9.7	21.9	7 30	22 22.64	-3 41.9	1.958	2.884	10.0	20.4
8 9	22 21.86	-28 55.6	1.818	2.792	7.1	21.8	8 9	22 17.32	-5 0.1	1.890	2.870	6.4	20.2
8 19	22 11.98	-29 43.5	1.821	2.803	6.2	21.7	8 19	22 10.77	-6 32.6	1.849	2.855	2.7	19.9
8 29	22 1.86	-30 13.0	1.851	2.814	7.7	21.8	8 29	22 3.74	-8 13.1	1.835	2.841	2.4	19.9
9 8	21 52.61	-30 21.1	1.907	2.824	10.3	22.0	9 8	21 57.06	-9 54.1	1.850	2.826	6.2	20.1
9 18	21 45.16	-30 7.9	1.986	2.833	13.1	22.2	9 18	21 51.53	-11 28.5	1.892	2.812	10.0	20.3
9 28	21 40.14	-29 35.9	2.086	2.843	15.5	22.4	9 28	21 47.81	-12 50.3	1.957	2.798	13.4	20.5
<b>127950</b>	2003 <i>HK</i> <sub>10</sub>		8 22.9	122°47	3°7/19.4	18	<b>257088</b>	2008 <i>GH</i> <sub>20</sub>		8 22.9	99°32	4°7/18.6	18
7 20	22 32.34	-21 25.0	2.199	3.080	11.2	19.8	7 20	22 34.28	-25 22.9	2.234	3.113	11.1	20.2
7 30	22 26.86	-22 5.2	2.138	3.084	8.2	19.7	7 30	22 28.23	-26 2.4	2.183	3.124	8.4	20.0
8 9	22 19.67	-22 45.3	2.102	3.087	5.3	19.5	8 9	22 20.44	-26 38.4	2.156	3.134	5.9	19.9
8 19	22 11.37	-23 20.0	2.092	3.091	3.7	19.4	8 19	22 11.60	-27 5.6	2.155	3.144	4.7	19.9
8 29	22 2.80	-23 44.6	2.110	3.094	5.1	19.5	8 29	22 2.56	-27 19.4	2.182	3.154	6.0	20.0
9 8	21 54.83	-23 56.0	2.156	3.098	7.9	19.7	9 8	21 54.22	-27 17.7	2.236	3.164	8.5	20.1
9 18	21 48.24	-23 52.8	2.226	3.101	10.8	19.9	9 18	21 47.35	-27 0.2	2.315	3.173	11.1	20.3
9 28	21 43.59	-23 35.4	2.319	3.104	13.3	20.1	9 28	21 42.48	-26 28.1	2.416	3.183	13.4	20.5
<b>382592</b>	2002 <i>CO</i> <sub>302</sub>		8 22.9	163°96	3°9/26.3	18	<b>425845</b>	2011 <i>EX</i> <sub>53</sub>		8 22.9	78°63	2°2/21.0	17
7 20	22 31.56	+1 10.6	1.930	2.758	14.7	21.2	7 20	22 32.04	-13 55.2	1.597	2.484	14.3	21.0
7 30	22 26.48	+1 10.3	1.855	2.761	11.6	21.0	7 30	22 27.08	-14 52.2	1.545	2.495	10.4	20.8
8 9	22 19.55	+0 52.7	1.802	2.764	8.2	20.8	8 9	22 19.99	-15 57.2	1.514	2.506	6.1	20.6
8 19	22 11.37	+0 19.0	1.773	2.766	5.0	20.6	8 19	22 11.51	-17 3.2	1.509	2.518	2.4	20.4
8 29	22 2.77	+0 27.5	1.770	2.768	4.1	20.5	8 29	22 2.70	-18 2.7	1.530	2.529	4.4	20.5
9 8	21 54.71	-1 21.4	1.795	2.769	6.6	20.7	9 8	21 54.70	-18 49.4	1.577	2.540	8.5	20.8
9 18	21 48.02	-2 17.1	1.847	2.771	10.0	20.9	9 18	21 48.44	-19 19.9	1.649	2.551	12.4	21.1
9 28	21 43.37	-3 8.9	1.921	2.772	13.2	21.1	9 28	21 44.58	-19 32.8	1.741	2.562	15.6	21.3
<b>141291</b>	2001 <i>YO</i> <sub>81</sub>		8 22.9	164°36	0°1/23.0	18	<b>49412</b>	1998 <i>XV</i> <sub>55</sub>		8 22.9	287°93	5°4/27.5	18
7 20	22 29.68	-9 5.0	2.720	3.573	10.1	20.8	7 20	22 29.34	+4 31.8	1.909	2.725	15.2	18.9
7 30	22 24.60	-9 32.5	2.646	3.578	7.5	20.6	7 30	22 25.03	+4 45.8	1.820	2.713	12.5	18.7
8 9	22 18.21	-10 7.4	2.598	3.583	4.5	20.4	8 9	22 18.81	+4 40.3	1.751	2.700	9.4	18.5
8 19	22 10.95	-10 46.6	2.577	3.586	1.3	20.2	8 19	22 11.22	+4 15.2	1.706	2.688	6.5	18.3
8 29	22 3.45	-11 26.8	2.585	3.590	2.0	20.3	8 29	22 3.07	+3 32.4	1.686	2.676	5.5	18.2
9 8	21 56.34	-12 4.2	2.623	3.593	5.1	20.5	9 8	21 55.32	+2 36.8	1.693	2.663	7.3	18.3
9 18	21 50.21	-12 36.0	2.689	3.595	8.0	20.7	9 18	21 48.86	+1 34.3	1.725	2.651	10.5	18.5
9 28	21 45.56	-12 59.8	2.779	3.598	10.5	20.9	9 28	21 44.42	+0 31.9	1.780	2.639	13.7	18.6
<b>517589</b>	2014 <i>WK</i> <sub>93</sub>		8 22.9	139°12	2°6/24.9	17	<b>44742</b>	1999 <i>TK</i> <sub>40</sub>		8 22.9	175°76	2°5/20.9	18 R
7 20	22 33.46	-2 8.0	1.580	2.431	16.3	21.7	7 20	22 34.39	-15 1.8	1.628	2.511	14.3	19.3
7 30	22 28.17	-2 32.8	1.515	2.440	12.5	21.5	7 30	22 28.92	-15 53.7	1.564	2.513	10.4	19.0
8 9	22 20.67	-3 16.6	1.471	2.448	8.2	21.3	8 9	22 21.17	-16 52.9	1.523	2.514	6.2	18.8
8 19	22 11.69	-4 15.9	1.451	2.455	3.9	21.0	8 19	22 11.87	-17 52.7	1.507	2.515	2.7	18.6
8 29	22 2.28	-5 24.9	1.458	2.462	3.3	21.0	8 29	22 2.11	-18 45.5	1.518	2.515	4.6	18.7
9 8	21 53.61	-6 35.7	1.491	2.469	7.3	21.3	9 8	21 53.09	-19 25.3	1.555	2.515	8.8	19.0
9 18	21 46.66	-7 41.3	1.550	2.475	11.5	21.5	9 18	21 45.85	-19 48.7	1.616	2.515	12.8	19.2
9 28	21 42.16	-8 36.2	1.631	2.480	15.2	21.8	9 28	21 41.12	-19 54.6	1.698	2.514	16.2	19.4
<b>348045</b>	2003 <i>UP</i> <sub>138</sub>		8 22.9	316°39	2°6/20.8	18	<b>469318</b>	1999 <i>TP</i> <sub>224</sub>		8 22.9	329°87	6°3/29.2	16
7 20	22 29.05	-14 39.3	1.514	2.409	14.5	20.2	7 20	22 25.84	+8 23.9	1.934	2.735	15.6	21.1
7 30	22 25.30	-15 29.9	1.435	2.390	10.7	20.0	7 30	22 22.40	+8 27.2	1.847	2.725	13.1	20.9
8 9	22 19.18	-16 30.2	1.377	2.371	6.4	19.7	8 9	22 17.20	+8 7.7	1.780	2.715	10.2	20.7
8 19	22 11.33	-17 33.7	1.344	2.352	2.7	19.4	8 19	22 10.76	+7 24.9	1.735	2.706	7.6	20.5
8 29	22 2.79	-18 32.3	1.335	2.334	4.9	19.5	8 29	22 3.83	+6 21.2	1.715	2.697	6.3	20.4
9 8	21 54.79	-19 18.5	1.352	2.317	9.4	19.7	9 8	21 57.30	+5 1.9	1.721	2.689	7.5	20.5
9 18	21 48.48	-19 47.5	1.392	2.300	13.8	19.9	9 18	21 52.00	+3 34.1	1.753	2.681	10.2	20.6
9 28	21 44.73	-19 56.9	1.451	2.283	17.6	20.1	9 28	21 48.61	+2 5.9	1.808	2.673	13.2	20.8
<b>86981</b>	2000 <i>JM</i> <sub>24</sub>		8 22.9	43°59	1°8/23.9	18	<b>363292</b>	2002 <i>JY</i> <sub>89</sub>		8 22.9	11°62	1°4/23.6	17



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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>1448</b>	Lindbladia		8 22.9 217°90	3°3/20.1	18		<b>383175</b>	2005 VM <sub>129</sub>		8 22.9 242°57	0°8/22.2	18	
7 20	22 35.31	-18 2.2	1.891	2.770	12.8	17.1	7 20	22 32.36	-10 44.2	1.872	2.743	13.3	22.5
7 30	22 29.45	-18 54.4	1.816	2.762	9.4	16.9	7 30	22 27.32	-11 27.2	1.788	2.730	9.8	22.3
8 9	22 21.46	-19 50.7	1.765	2.754	5.8	16.7	8 9	22 20.23	-12 21.0	1.728	2.717	5.9	22.0
8 19	22 11.97	-20 44.8	1.740	2.744	3.3	16.5	8 19	22 11.67	-13 20.9	1.693	2.703	1.6	21.7
8 29	22 1.96	-21 30.1	1.744	2.735	5.1	16.6	8 29	22 2.54	-14 20.6	1.686	2.689	3.2	21.8
9 8	21 52.53	-22 1.4	1.774	2.724	8.7	16.8	9 8	21 53.87	-15 13.8	1.706	2.674	7.5	22.0
9 18	21 44.67	-22 16.0	1.829	2.713	12.3	17.0	9 18	21 46.61	-15 55.8	1.752	2.659	11.5	22.2
9 28	21 39.12	-22 13.6	1.905	2.701	15.4	17.2	9 28	21 41.54	-16 23.6	1.820	2.644	14.9	22.4
<b>172162</b>	2002 NX <sub>37</sub>		8 22.9 355°84	6°0/26.9	18		<b>43974</b>	1997 GY <sub>12</sub>		8 22.9 322°82	0°9/23.6	18	
7 20	22 26.38	+ 1 37.8	1.267	2.130	18.8	19.1	7 20	22 28.90	- 6 50.0	1.572	2.447	15.2	18.7
7 30	22 23.47	+ 2 11.0	1.200	2.123	15.2	18.9	7 30	22 25.01	- 7 15.4	1.495	2.436	11.4	18.4
8 9	22 18.14	+ 2 20.8	1.151	2.118	11.1	18.6	8 9	22 18.94	- 7 56.0	1.439	2.426	7.1	18.1
8 19	22 11.08	+ 2 7.0	1.122	2.115	7.4	18.4	8 19	22 11.32	- 8 48.0	1.408	2.417	2.5	17.8
8 29	22 3.42	+ 1 32.1	1.116	2.113	6.1	18.3	8 29	22 3.12	- 9 45.4	1.402	2.407	2.8	17.8
9 8	21 56.45	+ 0 42.8	1.133	2.112	8.8	18.5	9 8	21 55.48	-10 41.1	1.421	2.399	7.6	18.1
9 18	21 51.32	- 0 12.7	1.172	2.113	12.8	18.7	9 18	21 49.42	-11 29.0	1.465	2.391	12.0	18.3
9 28	21 48.88	- 1 5.9	1.231	2.116	16.8	19.0	9 28	21 45.75	-12 4.5	1.530	2.383	15.8	18.6
<b>199406</b>	2006 CF <sub>19</sub>		8 22.9 119°97	1°5/24.1	18		<b>120131</b>	2003 FX <sub>119</sub>		8 22.9 85°35	0°2/22.7	18	
7 20	22 31.96	- 5 48.8	1.748	2.609	14.5	21.2	7 20	22 30.49	- 9 58.3	2.139	3.004	12.1	20.8
7 30	22 26.94	- 6 3.5	1.680	2.612	11.0	21.0	7 30	22 25.46	-10 26.7	2.080	3.018	8.9	20.6
8 9	22 19.91	- 6 31.7	1.633	2.615	6.9	20.8	8 9	22 18.85	-11 3.4	2.044	3.032	5.3	20.4
8 19	22 11.53	- 7 10.4	1.611	2.618	2.7	20.5	8 19	22 11.22	-11 44.5	2.036	3.046	1.5	20.2
8 29	22 2.74	- 7 54.6	1.616	2.621	2.7	20.5	8 29	22 3.36	-12 25.4	2.055	3.059	2.4	20.3
9 8	21 54.59	- 8 38.6	1.648	2.624	6.9	20.8	9 8	21 56.09	-13 1.9	2.102	3.073	6.1	20.5
9 18	21 47.97	- 9 17.4	1.705	2.627	10.8	21.0	9 18	21 50.10	-13 30.6	2.176	3.086	9.4	20.8
9 28	21 43.58	- 9 47.1	1.784	2.629	14.3	21.3	9 28	21 45.93	-13 49.3	2.273	3.100	12.2	21.0
<b>337920</b>	2001 XW <sub>210</sub>		8 22.9 294°08	1°3/23.9	18		<b>235284</b>	2003 UF <sub>32</sub>		8 22.9 1°37	3°2/25.6	18	
7 20	22 29.83	- 5 17.3	1.584	2.452	15.4	20.5	7 20	22 28.86	- 1 4.8	1.622	2.475	15.8	20.5
7 30	22 25.88	- 5 47.5	1.489	2.426	11.8	20.2	7 30	22 24.83	- 1 16.7	1.551	2.474	12.4	20.3
8 9	22 19.60	- 6 36.0	1.415	2.399	7.5	19.9	8 9	22 18.75	- 1 47.7	1.500	2.474	8.4	20.0
8 19	22 11.53	- 7 39.6	1.364	2.373	2.9	19.5	8 19	22 11.25	- 2 35.4	1.473	2.474	4.5	19.8
8 29	22 2.62	- 8 52.2	1.340	2.346	3.0	19.5	8 29	22 3.28	- 3 35.1	1.472	2.474	3.6	19.8
9 8	21 54.05	-10 6.0	1.342	2.319	7.9	19.7	9 8	21 55.92	- 4 39.8	1.496	2.475	7.1	20.0
9 18	21 47.00	-11 13.0	1.367	2.292	12.7	19.9	9 18	21 50.09	- 5 42.6	1.545	2.476	11.1	20.2
9 28	21 42.41	-12 7.2	1.414	2.266	17.0	20.1	9 28	21 46.52	- 6 37.4	1.617	2.478	14.7	20.4
<b>170687</b>	2004 AV <sub>24</sub>		8 22.9 309°94	1°6/21.7	18		<b>481546</b>	2007 RU <sub>134</sub>		8 22.9 356°97	5°0/27.6	18	
7 20	22 31.29	-13 45.7	1.750	2.632	13.5	20.2	7 20	22 19.05	+ 4 53.2	1.129	1.996	20.3	19.4
7 30	22 26.56	-14 14.9	1.675	2.624	9.9	20.0	7 30	22 18.24	+ 4 6.5	1.062	1.989	16.4	19.1
8 9	22 19.76	-14 51.5	1.624	2.615	5.9	19.7	8 9	22 15.08	+ 2 42.6	1.012	1.983	11.8	18.8
8 19	22 11.50	-15 30.5	1.598	2.607	2.0	19.4	8 19	22 10.25	+ 0 44.2	0.983	1.980	7.2	18.6
8 29	22 2.76	-16 6.3	1.598	2.599	3.7	19.5	8 29	22 4.83	- 1 39.3	0.976	1.978	5.1	18.5
9 8	21 54.61	-16 33.4	1.625	2.592	7.9	19.8	9 8	22 0.10	- 4 12.9	0.992	1.978	8.4	18.6
9 18	21 48.00	-16 48.7	1.676	2.584	11.9	20.0	9 18	21 57.19	- 6 40.8	1.031	1.981	13.2	18.9
9 28	21 43.66	-16 50.3	1.749	2.577	15.3	20.2	9 28	21 56.93	- 8 49.6	1.090	1.985	17.6	19.2
<b>117267</b>	2004 TA <sub>16</sub>		8 22.9 219°71	0°0/22.9	18		<b>42907</b>	1999 RN <sub>212</sub>		8 22.9 349°28	6°5/28.4	18	
7 20	22 27.45	- 7 5.4	3.065	3.911	9.3	20.2	7 20	22 29.80	+ 6 39.3	1.723	2.535	16.8	18.9
7 30	22 22.98	- 8 14.0	2.973	3.902	6.9	20.0	7 30	22 25.48	+ 6 59.8	1.647	2.534	13.9	18.7
8 9	22 17.30	- 9 32.3	2.908	3.891	4.2	19.8	8 9	22 19.13	+ 6 57.6	1.591	2.533	10.7	18.5
8 19	22 10.78	-10 57.0	2.871	3.881	1.2	19.6	8 19	22 11.37	+ 6 32.2	1.556	2.532	7.8	18.3
8 29	22 3.93	-12 23.5	2.866	3.870	1.9	19.7	8 29	22 3.11	+ 5 45.6	1.547	2.531	6.5	18.3
9 8	21 57.33	-13 47.0	2.891	3.858	4.8	19.8	9 8	21 55.39	+ 4 43.5	1.563	2.531	8.1	18.4
9 18	21 51.50	-15 3.4	2.945	3.846	7.6	20.0	9 18	21 49.14	+ 3 32.8	1.603	2.530	11.1	18.5
9 28	21 46.94	-16 9.5	3.026	3.833	10.0	20.2	9 28	21 45.09	+ 2 21.5	1.667	2.530	14.2	18.7
<b>273936</b>	2007 JC <sub>16</sub>		8 22.9 15°20	13°6/12.4	18		<b>477070</b>	2009 BM <sub>63</sub>		8 22.9 48°55	2°1/21.0	18	
7 20	22 34.13	-39 7.8	1.241	2.135	17.1	18.9	7 20	22 30.33	-14 16.2	1.754	2.639	13.3	20.9
7 30	22 29.66	-40 56.1	1.214	2.140	14.9	18.8	7 30	22 25.76	-15 8.9	1.694	2.644	9.7	20.7
8 9	22 21.93	-42 23.5	1.207	2.146	13.7	18.8	8 9	22 19.22	-16 9.0	1.657	2.649	5.7	20.5
8 19	22 12.12	-43 17.8	1.220	2.152	13.9	18.8	8 19	22 11.37	-17 10.2	1.646	2.654	2.3	20.3
8 29	22 1.98	-43 30.9	1.252	2.160	15.4	18.9	8 29	22 3.16	-18 5.8	1.661	2.660	4.1	20.4
9 8	21 53.32	-43 2.3	1.304	2.170	17.6	19.1	9 8	21 55.63	-18 50.1	1.703	2.665	8.0	20.7
9 18	21 47.44	-41 57.1	1.372	2.180	19.9	19.3	9 18	21 49.63	-19 19.5	1.769	2.671	11.7	20.9
9 28	21 45.02	-40 23.1	1.456	2.191	22.0	19.5	9 28	21 45.83	-19 32.6	1.857	2.677	14.9	21.1
<b>228871</b>	2003 HQ <sub>31</sub>		8 22.9 92°33	3°9/26.2	17	R	<b>155863</b>	2001 CQ <sub>34</sub>		8 22.9 212°87	6°2/14.8	18	
7 20	22 31.41	+ 0 42.0	1.698	2.536	15.9	20.0	7 20	22 31.56	-31 55.1	2.745	3.617	9.5	20.3
7 30	22 26.53	+ 0 35.2	1.633	2.547	12.5	19.8	7 30	22 26.27	-33 11.3	2.685	3.611	7.7	20.2
8 9	22 19.66	+ 0 9.0	1.590	2.557	8.7	19.6	8 9	22 19.38	-34 21.8	2.651	3.604	6.4	20.1
8 19	22 11.47	- 0 34.5	1.570	2.567	5.1	19.5	8 19	22 11.41	-35 21.0	2.644	3.598	6.3	20.1
8 29	22 2.90	- 1 30.9	1.577	2.576	4.1	19.4	8 29	22 3.09	-36 3.9	2.664	3.590	7.4	20.1
9 8	21 55.02	- 2 33.6	1.610	2.586	7.0	19.6	9 8	21 55.21	-36 27.8	2.709	3.583	9.2	20.3
9 18	21 48.69	- 3 36.0	1.668	2.596	10.6	19.9	9 18	21 48.49	-36 32.0	2.779	3.575	11.2	20.4
9 28	21 44.59	- 4 32.1	1.749	2.605	14.0	20.1	9 28	21 43.52	-36 18.0	2.868	3.567	12.9	20.5
<b>494636</b>	2017 DN <sub>7</sub>		8 22.9 270°97	4°6/17.3	18		<b>173123</b>	1993 FB <sub>35</sub>		8 22.9 187°73	0°2/22.7	18	
7 20	22 28.78	-25 24.2											

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>68086</b>	2000 YX <sub>104</sub>		8 22.9 248°88	2°3/20.4	18		<b>24531</b>	2001 CE <sub>21</sub>		8 22.9 275°59	3°1/29.2	17	
7 20	22 30.94	-14 20.9	2.178	3.053	11.5	19.3	7 20	22 21.47	+ 7 52.1	4.500	5.265	7.9	19.0
7 30	22 26.12	-15 34.2	2.089	3.034	8.5	19.1	7 30	22 18.29	+ 7 37.0	4.403	5.258	6.5	18.9
8 9	22 19.47	-16 56.2	2.025	3.015	5.1	18.9	8 9	22 14.38	+ 7 11.6	4.329	5.251	5.1	18.8
8 19	22 11.50	-18 20.9	1.988	2.995	2.4	18.6	8 19	22 9.99	+ 6 36.4	4.281	5.245	3.7	18.7
8 29	22 2.95	-19 41.6	1.980	2.975	4.1	18.7	8 29	22 5.44	+ 5 52.8	4.262	5.238	3.1	18.7
9 8	21 54.74	-20 51.9	2.001	2.954	7.7	18.9	9 8	22 1.07	+ 5 2.9	4.271	5.231	3.7	18.7
9 18	21 47.70	-21 47.1	2.047	2.933	11.1	19.1	9 18	21 57.18	+ 4 9.3	4.309	5.224	5.0	18.8
9 28	21 42.57	-22 25.1	2.116	2.911	14.1	19.3	9 28	21 54.07	+ 3 14.7	4.375	5.218	6.5	18.9
<b>186292</b>	2002 CN <sub>41</sub>		8 22.9 114°18	4°1/27.5	18		<b>40197</b>	1998 RP <sub>80</sub>		8 22.9 14°68	3°3/26.4	18	
7 20	22 28.32	+ 4 13.1	2.387	3.193	12.9	20.5	7 20	22 26.82	+ 1 0.7	2.064	2.897	13.7	17.7
7 30	22 23.81	+ 4 4.2	2.313	3.202	10.4	20.3	7 30	22 22.95	+ 0 43.7	1.990	2.899	10.8	17.5
8 9	22 17.87	+ 3 38.8	2.262	3.210	7.6	20.2	8 9	22 17.48	+ 0 9.7	1.936	2.901	7.5	17.3
8 19	22 10.99	+ 2 58.2	2.235	3.219	5.1	20.0	8 19	22 10.92	- 0 39.5	1.908	2.904	4.4	17.1
8 29	22 3.84	+ 2 5.2	2.236	3.228	4.1	20.0	8 29	22 4.01	- 1 39.9	1.907	2.906	3.5	17.1
9 8	21 57.12	+ 1 4.4	2.265	3.236	5.7	20.1	9 8	21 57.57	- 2 46.0	1.932	2.909	6.0	17.2
9 18	21 51.46	+ 0 0.9	2.322	3.244	8.3	20.3	9 18	21 52.31	- 3 52.0	1.984	2.912	9.2	17.4
9 28	21 47.41	- 1 0.3	2.403	3.252	10.9	20.4	9 28	21 48.82	- 4 52.6	2.060	2.916	12.2	17.6
<b>376887</b>	2001 XY <sub>47</sub>		8 22.9 254°07	7°2/16.4	18		<b>116113</b>	2003 WW <sub>135</sub>		8 22.9 213°54	5°2/18.2	18	
7 20	22 35.55	-28 21.9	1.844	2.729	12.8	20.4	7 20	22 32.94	-23 43.5	1.911	2.799	12.3	19.7
7 30	22 29.91	-29 39.9	1.776	2.715	10.1	20.2	7 30	22 27.69	-24 47.3	1.851	2.797	9.2	19.5
8 9	22 21.90	-30 54.2	1.731	2.701	7.8	20.0	8 9	22 20.41	-25 50.1	1.814	2.796	6.4	19.3
8 19	22 12.20	-31 55.9	1.711	2.686	7.3	19.9	8 19	22 11.76	-26 44.8	1.804	2.795	5.2	19.2
8 29	22 1.91	-32 37.2	1.717	2.671	8.9	20.0	8 29	22 2.72	-27 24.8	1.820	2.793	6.8	19.3
9 8	21 52.27	-32 53.8	1.748	2.655	11.7	20.1	9 8	21 54.35	-27 45.9	1.861	2.791	9.7	19.5
9 18	21 44.36	-32 44.8	1.802	2.640	14.6	20.3	9 18	21 47.56	-27 46.9	1.927	2.790	12.7	19.7
9 28	21 39.03	-32 12.7	1.874	2.623	17.2	20.5	9 28	21 43.02	-27 28.9	2.012	2.788	15.4	19.9
<b>432657</b>	2011 AE <sub>9</sub>		8 22.9 283°25	0°6/22.5	17		<b>67587</b>	2000 SK <sub>125</sub>		8 22.9 267°95	0°2/22.8	18	
7 20	22 32.04	-10 5.1	1.486	2.368	15.5	22.1	7 20	22 31.02	- 7 43.6	1.450	2.328	16.0	19.4
7 30	22 27.64	-10 42.6	1.402	2.349	11.6	21.8	7 30	22 26.84	- 8 38.3	1.372	2.317	12.0	19.1
8 9	22 20.72	-11 34.3	1.338	2.329	7.0	21.5	8 9	22 20.20	- 9 50.9	1.316	2.305	7.3	18.8
8 19	22 11.92	-12 35.1	1.299	2.309	1.9	21.1	8 19	22 11.77	-11 15.8	1.284	2.294	2.1	18.5
8 29	22 2.31	-13 37.4	1.285	2.289	3.6	21.2	8 29	22 2.63	-12 44.2	1.277	2.282	3.4	18.6
9 8	21 53.19	-14 33.5	1.297	2.269	8.8	21.4	9 8	21 54.07	-14 6.5	1.297	2.270	8.6	18.8
9 18	21 45.81	-15 16.8	1.332	2.249	13.6	21.7	9 18	21 47.25	-15 15.1	1.339	2.259	13.4	19.1
9 28	21 41.10	-15 43.7	1.387	2.229	17.8	21.9	9 28	21 43.10	-16 5.0	1.403	2.247	17.5	19.3
<b>47409</b>	1999 XS <sub>132</sub>		8 22.9 213°06	0°5/22.6	18		<b>515915</b>	2015 PW <sub>302</sub>		8 22.9 260°83	3°0/19.7	18	
7 20	22 36.02	-11 34.1	1.648	2.521	14.7	18.9	7 20	22 29.72	-18 16.5	2.249	3.131	10.9	21.3
7 30	22 30.15	-11 46.7	1.575	2.518	10.9	18.7	7 30	22 25.10	-19 13.1	2.174	3.121	8.0	21.1
8 9	22 21.98	-12 8.1	1.525	2.514	6.5	18.4	8 9	22 18.79	-20 13.5	2.122	3.111	5.0	20.9
8 19	22 12.22	-12 33.9	1.500	2.511	1.8	18.1	8 19	22 11.31	-21 12.1	2.098	3.101	3.1	20.8
8 29	22 1.94	-12 59.0	1.503	2.507	3.2	18.2	8 29	22 3.43	-22 3.4	2.102	3.091	4.6	20.9
9 8	21 52.37	-13 18.4	1.531	2.503	7.8	18.5	9 8	21 55.98	-22 42.7	2.133	3.080	7.7	21.0
9 18	21 44.54	-13 28.7	1.585	2.498	12.1	18.7	9 18	21 49.73	-23 7.3	2.189	3.070	10.7	21.2
9 28	21 39.24	-13 27.9	1.660	2.493	15.7	18.9	9 28	21 45.30	-23 16.2	2.268	3.059	13.4	21.4
<b>132427</b>	2002 GY <sub>148</sub>		8 22.9 46°95	0°9/23.6	17		<b>380428</b>	2003 JQ <sub>5</sub>		8 22.9 48°00	13°8/13.2	17	
7 20	22 30.29	- 5 34.2	1.215	2.098	18.1	19.3	7 20	22 41.22	-42 36.3	1.386	2.258	17.0	19.7
7 30	22 26.32	- 6 23.5	1.162	2.108	13.5	19.0	7 30	22 34.58	-44 12.3	1.371	2.275	15.0	19.6
8 9	22 19.81	- 7 33.4	1.130	2.118	8.3	18.8	8 9	22 24.71	-45 24.0	1.374	2.293	13.9	19.6
8 19	22 11.60	- 8 57.3	1.119	2.129	2.8	18.5	8 19	22 12.96	-46 0.6	1.399	2.312	14.0	19.6
8 29	22 2.95	-10 25.4	1.134	2.140	3.2	18.5	8 29	22 1.18	-45 56.6	1.444	2.331	15.2	19.8
9 8	21 55.25	-11 47.4	1.172	2.151	8.6	18.9	9 8	21 51.14	-45 13.5	1.509	2.350	16.9	19.9
9 18	21 49.60	-12 55.2	1.234	2.163	13.5	19.2	9 18	21 44.05	-45 57.4	1.591	2.369	18.8	20.1
9 28	21 46.77	-13 44.1	1.315	2.175	17.5	19.5	9 28	21 40.49	-42 16.6	1.689	2.389	20.6	20.3
<b>130941</b>	2000 WY <sub>43</sub>		8 22.9 275°70	2°8/20.6	18		<b>355719</b>	2008 FK <sub>136</sub>		8 22.9 59°49	7°1/16.7	18	
7 20	22 32.31	-16 15.4	1.692	2.579	13.6	20.0	7 20	22 35.00	-31 28.0	2.047	2.926	12.0	19.7
7 30	22 27.38	-17 4.7	1.627	2.577	10.0	19.8	7 30	22 29.01	-32 22.7	2.006	2.938	9.5	19.6
8 9	22 20.29	-17 59.9	1.584	2.576	6.0	19.5	8 9	22 21.07	-33 8.9	1.988	2.950	7.6	19.5
8 19	22 11.73	-18 54.6	1.567	2.574	2.9	19.3	8 19	22 11.94	-33 40.1	1.996	2.962	7.1	19.5
8 29	22 2.72	-19 41.8	1.576	2.572	4.8	19.4	8 29	22 2.63	-33 51.5	2.030	2.974	8.3	19.6
9 8	21 54.39	-20 15.8	1.612	2.570	8.7	19.7	9 8	21 54.18	-33 41.2	2.088	2.986	10.5	19.7
9 18	21 47.71	-20 33.5	1.671	2.568	12.5	19.9	9 18	21 47.41	-33 10.3	2.170	2.999	12.8	19.9
9 28	21 43.41	-20 34.3	1.751	2.567	15.8	20.1	9 28	21 42.92	-32 21.7	2.271	3.011	14.8	20.1
<b>76392</b>	2000 FJ <sub>11</sub>		8 22.9 145°59	5°0/18.1	18		<b>486983</b>	2014 NZ <sub>39</sub>		8 22.9 265°81	7°1/30.8	18	
7 20	22 34.60	-25 25.5	2.228	3.107	11.1	19.6	7 20	22 28.15	+13 0.1	2.509	3.258	13.8	21.0
7 30	22 28.58	-26 21.1	2.175	3.115	8.4	19.4	7 30	22 23.81	+13 26.6	2.417	3.249	11.9	20.8
8 9	22 20.77	-27 13.6	2.145	3.122	6.0	19.3	8 9	22 17.98	+13 34.0	2.344	3.240	9.9	20.6
8 19	22 11.83	-27 57.1	2.143	3.129	5.0	19.3	8 19	22 11.10	+13 21.0	2.294	3.231	8.0	20.5
8 29	22 2.63	-28 26.4	2.169	3.136	6.4	19.4	8 29	22 3.80	+12 48.2	2.269	3.222	7.1	20.4
9 8	21 54.09	-28 38.5	2.221	3.142	8.8	19.5	9 8	21 56.81	+11 58.5	2.271	3.213	7.6	20.5
9 18	21 47.01	-28 33.0	2.297	3.148	11.4	19.7	9 18	21 50.80	+10 56.3	2.298	3.204	9.2	20.5
9 28	21 41.96	-28 11.0	2.396	3.153	13.7	19.9	9 28	21 46.35	+ 9 47.7	2.350	3.195	11.3	20.7
<b>45080</b>	1999 XB <sub>43</sub>		8 22.9 312°56	2°2/21.5	18		<b>428133</b>	2006 SK <sub>93</sub>		8 22.9 281°93	4°9/19.7	17	
7 20	22 31.14												

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>294351</b>	2007 VX <sub>94</sub>		8 22.9 327°28	4°1/25.7	18		<b>482254</b>	2011 OK <sub>22</sub>		8 22.9 351°52	4°9/26.1	18	
7 20	22 30.86	- 1 39.5	1.578	2.432	16.2	19.9	7 20	22 28.79	- 0 32.7	1.361	2.224	17.8	20.4
7 30	22 26.52	- 1 11.6	1.496	2.419	12.8	19.6	7 30	22 25.20	- 0 3.1	1.291	2.217	14.1	20.2
8 9	22 19.93	- 0 59.9	1.435	2.407	8.9	19.4	8 9	22 19.23	+ 0 6.8	1.239	2.211	10.0	19.9
8 19	22 11.72	- 1 4.2	1.397	2.395	5.3	19.2	8 19	22 11.56	- 0 3.0	1.209	2.206	6.1	19.7
8 29	22 2.86	- 1 22.0	1.384	2.384	4.4	19.1	8 29	22 3.28	- 0 29.6	1.203	2.202	5.1	19.6
9 8	21 54.52	- 1 48.8	1.396	2.374	7.7	19.3	9 8	21 55.66	- 1 7.1	1.220	2.200	8.3	19.8
9 18	21 47.78	- 2 19.1	1.433	2.364	11.8	19.5	9 18	21 49.83	- 1 48.7	1.261	2.198	12.5	20.1
9 28	21 43.46	- 2 47.2	1.490	2.355	15.6	19.7	9 28	21 46.61	- 2 27.5	1.322	2.198	16.4	20.3
<b>251320</b>	2007 BR <sub>25</sub>		8 22.9 320°42	0°6/23.4	18		<b>439830</b>	2015 KS <sub>117</sub>		8 22.9 23°93	3°9/19.5	18	
7 20	22 30.81	- 8 52.9	1.899	2.767	13.3	20.7	7 20	22 28.71	- 16 38.0	1.495	2.394	14.4	20.5
7 30	22 26.10	- 8 56.8	1.819	2.758	9.9	20.4	7 30	22 24.93	- 18 2.5	1.443	2.399	10.5	20.3
8 9	22 19.49	- 9 10.1	1.762	2.748	6.1	20.2	8 9	22 18.92	- 19 34.0	1.413	2.405	6.4	20.0
8 19	22 11.55	- 9 30.3	1.730	2.739	2.0	19.9	8 19	22 11.43	- 21 3.4	1.407	2.412	3.9	19.9
8 29	22 3.15	- 9 53.4	1.725	2.731	2.5	19.9	8 29	22 3.53	- 22 21.4	1.428	2.419	6.0	20.1
9 8	21 55.25	- 10 15.0	1.747	2.722	6.7	20.2	9 8	21 56.40	- 23 20.7	1.473	2.426	9.9	20.3
9 18	21 48.72	- 10 31.5	1.795	2.714	10.5	20.4	9 18	21 51.01	- 23 57.7	1.541	2.434	13.6	20.6
9 28	21 44.26	- 10 40.0	1.865	2.707	13.9	20.6	9 28	21 48.08	- 24 11.8	1.628	2.442	16.8	20.8
<b>366180</b>	2012 GR <sub>39</sub>		8 22.9 91°18	1°7/24.2	17		<b>521184</b>	2015 FQ <sub>411</sub>		8 22.9 83°43	7°0/28.0	18	
7 20	22 35.17	- 5 24.1	1.514	2.376	16.3	20.9	7 20	22 34.34	+ 5 59.1	1.731	2.539	16.9	20.9
7 30	22 29.44	- 5 37.5	1.460	2.393	12.3	20.7	7 30	22 28.82	+ 6 49.3	1.660	2.543	14.0	20.7
8 9	22 21.48	- 6 6.2	1.428	2.410	7.8	20.4	8 9	22 21.19	+ 7 19.1	1.609	2.548	10.8	20.5
8 19	22 12.10	- 6 46.3	1.420	2.427	3.1	20.2	8 19	22 12.09	+ 7 27.1	1.581	2.553	8.1	20.4
8 29	22 2.42	- 7 32.3	1.438	2.444	3.0	20.2	8 29	22 2.50	+ 7 14.2	1.578	2.558	7.0	20.3
9 8	21 53.63	- 8 17.5	1.483	2.460	7.4	20.5	9 8	21 53.53	+ 6 44.1	1.601	2.563	8.5	20.5
9 18	21 46.71	- 8 56.6	1.552	2.476	11.6	20.8	9 18	21 46.15	+ 6 2.9	1.648	2.568	11.3	20.6
9 28	21 42.33	- 9 25.7	1.643	2.491	15.2	21.1	9 28	21 41.08	+ 5 17.3	1.718	2.572	14.3	20.8
<b>430891</b>	2005 QK <sub>188</sub>		8 22.9 347°84	4°1/20.5	16		<b>147897</b>	2006 SF <sub>12</sub>		8 22.9 342°06	12°4/1.6	18	
7 20	22 33.34	- 18 54.5	1.235	2.140	16.4	20.8	7 20	22 20.57	+ 13 10.3	1.033	1.867	24.1	18.7
7 30	22 28.83	- 19 25.9	1.175	2.134	12.2	20.5	7 30	22 19.78	+ 14 5.7	0.960	1.849	21.2	18.4
8 9	22 21.48	- 20 0.8	1.136	2.128	7.6	20.3	8 9	22 16.32	+ 14 22.2	0.901	1.833	17.9	18.1
8 19	22 12.17	- 20 31.4	1.118	2.124	4.2	20.1	8 19	22 10.80	+ 13 53.0	0.858	1.818	14.6	17.9
8 29	22 2.28	- 20 49.7	1.125	2.120	6.3	20.2	8 29	22 4.38	+ 12 36.4	0.832	1.806	12.6	17.7
9 8	21 53.37	- 20 50.5	1.155	2.118	10.9	20.4	9 8	21 58.57	+ 10 39.6	0.826	1.795	13.0	17.7
9 18	21 46.70	- 20 32.0	1.206	2.116	15.3	20.7	9 18	21 54.78	+ 8 16.3	0.839	1.786	15.7	17.8
9 28	21 43.13	- 19 55.3	1.276	2.115	19.2	20.9	9 28	21 54.12	+ 5 44.9	0.870	1.780	19.4	18.0
<b>298112</b>	2002 RC <sub>154</sub>		8 22.9 6°34	3°4/25.8	18		<b>480568</b>	2015 MV <sub>69</sub>		8 22.9 348°04	1°9/24.6	18	
7 20	22 24.97	- 0 12.0	1.342	2.210	17.7	20.6	7 20	22 28.79	- 4 14.3	1.735	2.596	14.6	21.0
7 30	22 22.30	- 0 38.2	1.279	2.210	13.8	20.3	7 30	22 24.74	- 4 33.9	1.661	2.593	11.2	20.8
8 9	22 17.42	- 1 28.8	1.235	2.212	9.4	20.1	8 9	22 18.73	- 5 9.2	1.610	2.590	7.2	20.5
8 19	22 11.00	- 2 40.5	1.213	2.215	5.0	19.9	8 19	22 11.38	- 5 57.0	1.582	2.588	3.2	20.3
8 29	22 4.10	- 4 6.2	1.215	2.219	3.8	19.8	8 29	22 3.58	- 6 52.4	1.581	2.586	2.8	20.2
9 8	21 57.90	- 5 36.4	1.242	2.224	7.7	20.1	9 8	21 56.34	- 7 49.1	1.606	2.585	6.8	20.5
9 18	21 53.40	- 7 1.5	1.291	2.231	12.1	20.3	9 18	21 50.53	- 8 41.1	1.657	2.584	10.8	20.7
9 28	21 51.37	- 8 13.9	1.362	2.238	16.0	20.6	9 28	21 46.85	- 9 23.6	1.729	2.583	14.3	21.0
<b>10403</b>	Marcelgrün		8 22.9 172°40	3°4/25.5	18		<b>390016</b>	2012 UH <sub>3</sub>		8 22.9 255°42	2°7/25.5	18	
7 20	22 34.17	- 1 4.6	1.598	2.444	16.4	17.8	7 20	22 29.25	- 0 42.1	1.916	2.757	14.3	21.1
7 30	22 28.83	- 1 11.1	1.527	2.446	12.8	17.6	7 30	22 25.01	- 1 14.5	1.829	2.746	11.1	20.9
8 9	22 21.24	- 1 36.6	1.476	2.448	8.7	17.4	8 9	22 18.89	- 2 5.5	1.764	2.736	7.5	20.7
8 19	22 12.09	- 2 19.0	1.449	2.449	4.7	17.2	8 19	22 11.44	- 3 12.5	1.723	2.724	3.9	20.4
8 29	22 2.42	- 3 13.6	1.448	2.450	3.8	17.1	8 29	22 3.46	- 4 30.6	1.710	2.713	3.1	20.3
9 8	21 53.41	- 4 13.6	1.474	2.451	7.4	17.3	9 8	21 55.89	- 5 53.0	1.724	2.701	6.5	20.5
9 18	21 46.09	- 5 12.1	1.524	2.451	11.6	17.6	9 18	21 49.60	- 7 12.6	1.764	2.690	10.3	20.7
9 28	21 41.24	- 6 3.2	1.597	2.450	15.3	17.8	9 28	21 45.31	- 8 23.4	1.828	2.678	13.8	20.9
<b>494426</b>	2016 UW <sub>83</sub>		8 22.9 243°32	1°5/21.6	18		<b>1735</b>	ITA		8 22.9 30°49	6°1/18.4	18	
7 20	22 31.09	- 13 32.2	1.964	2.841	12.5	21.5	7 20	22 36.28	- 28 20.5	1.896	2.779	12.6	14.4
7 30	22 26.24	- 14 10.6	1.893	2.839	9.1	21.3	7 30	22 30.05	- 28 51.9	1.847	2.786	9.7	14.2
8 9	22 19.53	- 14 55.9	1.846	2.837	5.4	21.0	8 9	22 21.76	- 29 16.6	1.820	2.794	7.2	14.1
8 19	22 11.57	- 15 43.4	1.825	2.834	1.9	20.8	8 19	22 12.21	- 29 28.5	1.819	2.801	6.1	14.0
8 29	22 3.22	- 16 27.5	1.831	2.831	3.5	20.9	8 29	22 2.46	- 29 22.9	1.844	2.810	7.4	14.1
9 8	21 55.41	- 17 3.4	1.864	2.829	7.3	21.1	9 8	21 53.62	- 28 58.2	1.895	2.818	10.0	14.3
9 18	21 48.98	- 17 27.5	1.923	2.826	10.8	21.4	9 18	21 46.56	- 28 15.5	1.969	2.828	12.7	14.5
9 28	21 44.58	- 17 38.3	2.004	2.823	13.9	21.6	9 28	21 41.88	- 27 17.4	2.064	2.837	15.2	14.7
<b>316690</b>	1996 EA <sub>8</sub>		8 22.9 318°09	1°1/23.9	18		<b>114038</b>	2002 VN <sub>10</sub>		8 22.9 335°98	1°1/23.7	18	
7 20	22 29.02	- 5 11.0	1.822	2.683	14.0	20.9	7 20	22 32.45	- 6 57.4	1.463	2.336	16.1	19.6
7 30	22 24.82	- 5 48.8	1.748	2.681	10.6	20.7	7 30	22 27.76	- 7 12.9	1.395	2.335	12.2	19.4
8 9	22 18.74	- 6 41.8	1.697	2.680	6.7	20.5	8 9	22 20.69	- 7 43.4	1.347	2.333	7.6	19.1
8 19	22 11.36	- 7 46.0	1.670	2.678	2.5	20.2	8 19	22 11.98	- 8 25.1	1.323	2.332	2.7	18.8
8 29	22 3.55	- 8 55.7	1.671	2.677	2.5	20.2	8 29	22 2.72	- 9 12.0	1.324	2.330	3.0	18.9
9 8	21 56.26	- 10 4.0	1.699	2.675	6.7	20.5	9 8	21 54.18	- 9 57.3	1.351	2.329	7.9	19.1
9 18	21 50.36	- 11 5.1	1.752	2.674	10.6	20.7	9 18	21 47.44	- 10 35.2	1.402	2.328	12.4	19.4
9 28	21 46.51	- 11 54.4	1.828	2.673	14.0	20.9	9 28	21 43.30	- 11 1.6	1.474	2.327	16.3	19.7
<b>11142</b>	Facchini		8 22.9 32°52	4°6/18.3	18		<b>439605</b>	2014 EH <sub>23</sub>		8 22.9 53°88	3°0/26.1	16	

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8 22.9

8 22.9

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>6928</b>	Lanna		8 22.9 308°16	4.1/26.1	18		<b>2942</b>	Cordie		8 22.9 42°45	3.6/20.4	18	R
7 20	22 28.37	+ 0 22.0	1.632	2.479	16.0	17.5	7 20	22 30.90	-13 58.9	1.062	1.971	18.1	15.5
7 30	22 24.78	+ 0 19.7	1.536	2.454	12.8	17.2	7 30	22 27.09	-15 25.1	1.023	1.984	13.1	15.3
8 9	22 18.99	- 0 3.0	1.460	2.429	9.1	17.0	8 9	22 20.43	-17 2.9	1.003	1.998	7.8	15.1
8 19	22 11.54	- 0 45.6	1.407	2.404	5.4	16.7	8 19	22 11.92	-18 40.5	1.005	2.013	3.7	14.9
8 29	22 3.31	- 1 44.5	1.379	2.380	4.3	16.6	8 29	22 3.02	-20 5.5	1.030	2.028	6.2	15.1
9 8	21 55.42	- 2 53.3	1.377	2.356	7.6	16.7	9 8	21 55.31	-21 8.3	1.079	2.044	11.2	15.4
9 18	21 48.96	- 4 4.5	1.399	2.332	11.8	16.9	9 18	21 49.97	-21 44.8	1.148	2.060	15.8	15.7
9 28	21 44.82	- 5 10.3	1.443	2.309	15.9	17.1	9 28	21 47.73	-21 55.0	1.235	2.077	19.5	16.0
<b>202874</b>	2008 UT <sub>124</sub>		8 22.9 189°59	3.4/26.2	18		<b>339228</b>	2004 TD <sub>347</sub>		8 22.9 284°57	1°1/22.2	18	
7 20	22 32.45	+ 0 31.1	2.296	3.115	12.9	21.4	7 20	22 34.28	-12 57.2	1.722	2.599	13.9	20.9
7 30	22 27.00	+ 0 35.1	2.213	3.114	10.2	21.2	7 30	22 29.06	-13 13.6	1.633	2.577	10.4	20.6
8 9	22 19.92	+ 0 25.1	2.152	3.113	7.2	21.1	8 9	22 21.52	-13 37.8	1.566	2.556	6.3	20.3
8 19	22 11.72	+ 0 2.0	2.118	3.111	4.4	20.9	8 19	22 12.28	-14 5.7	1.524	2.534	1.9	20.0
8 29	22 3.13	- 0 31.7	2.111	3.108	3.6	20.8	8 29	22 2.31	-14 31.8	1.509	2.512	3.5	20.0
9 8	21 54.96	- 1 11.9	2.133	3.105	5.9	21.0	9 8	21 52.81	-14 51.0	1.521	2.490	8.1	20.3
9 18	21 47.95	- 1 54.3	2.182	3.102	8.9	21.2	9 18	21 44.88	-14 59.7	1.557	2.468	12.4	20.5
9 28	21 42.70	- 2 34.5	2.256	3.097	11.8	21.3	9 28	21 39.38	-14 55.9	1.614	2.446	16.2	20.7
<b>376707</b>	1995 OO		8 22.9 24°81	18°4/27.7	17		<b>157883</b>	1999 RF <sub>38</sub>		8 22.9 312°85	6°8/17.8	18	
7 20	3 28.35	-41 32.0	0.345	1.062	73.0	17.3	7 20	22 36.79	-28 51.0	1.849	2.731	12.9	19.4
7 30	1 40.39	-48 37.2	0.353	1.199	51.1	16.9	7 30	22 30.98	-29 28.7	1.762	2.701	10.2	19.1
8 9	23 46.93	-48 15.6	0.403	1.331	32.4	16.9	8 9	22 22.69	-30 0.8	1.698	2.670	7.7	18.9
8 19	22 28.79	-43 3.0	0.493	1.456	21.1	17.2	8 19	22 12.61	-30 19.9	1.659	2.640	6.8	18.8
8 29	21 45.40	-37 13.1	0.617	1.576	18.5	17.8	8 29	22 1.82	-30 19.3	1.646	2.610	8.3	18.8
9 8	21 22.90	-32 19.3	0.768	1.690	20.5	18.5	9 8	21 51.62	-29 55.6	1.658	2.580	11.3	19.0
9 18	21 12.29	-28 27.1	0.939	1.799	23.1	19.1	9 18	21 43.15	-29 8.8	1.693	2.550	14.5	19.1
9 28	21 8.86	-25 22.2	1.128	1.903	25.0	19.7	9 28	21 37.31	-28 1.7	1.748	2.521	17.4	19.2
<b>190529</b>	2000 QD <sub>184</sub>		8 22.9 309°65	1°2/22.2	18		<b>473441</b>	2015 XD <sub>2</sub>		8 22.9 62°62	19°5/10.2	16	
7 20	22 32.58	-12 52.3	1.459	2.347	15.4	19.5	7 20	22 32.86	+28 21.1	1.190	1.897	28.1	20.7
7 30	22 28.08	-13 9.4	1.378	2.328	11.4	19.2	7 30	22 28.92	+30 19.4	1.135	1.902	26.2	20.6
8 9	22 21.04	-13 35.9	1.318	2.310	6.9	18.9	8 9	22 21.86	+31 34.3	1.090	1.907	24.0	20.4
8 19	22 12.13	-14 6.7	1.282	2.293	2.1	18.6	8 19	22 12.43	+31 56.0	1.058	1.913	22.0	20.3
8 29	22 2.46	-14 35.8	1.272	2.275	3.8	18.7	8 29	22 2.07	+31 18.5	1.039	1.918	20.3	20.2
9 8	21 53.39	-14 57.0	1.286	2.258	8.9	18.9	9 8	21 52.54	+29 44.5	1.037	1.924	19.5	20.2
9 18	21 46.13	-15 6.3	1.323	2.242	13.6	19.1	9 18	21 45.39	+27 24.6	1.053	1.929	19.8	20.2
9 28	21 41.59	-15 1.3	1.381	2.226	17.7	19.4	9 28	21 41.73	+24 35.6	1.085	1.935	21.1	20.3
<b>25776</b>	2000 CG <sub>32</sub>		8 22.9 217°16	0°9/23.9	18		<b>513954</b>	2014 DO <sub>147</sub>		8 22.9 226°05	1°2/21.8	18	
7 20	22 28.01	- 6 10.3	2.658	3.506	10.5	19.9	7 20	22 30.48	-12 8.7	1.991	2.865	12.4	21.8
7 30	22 23.57	- 6 37.4	2.575	3.502	7.9	19.7	7 30	22 25.81	-12 55.9	1.918	2.862	9.1	21.6
8 9	22 17.78	- 7 14.2	2.516	3.497	5.0	19.5	8 9	22 19.32	-13 51.7	1.869	2.859	5.4	21.4
8 19	22 11.10	- 7 58.0	2.484	3.492	1.9	19.3	8 19	22 11.59	-14 51.2	1.845	2.855	1.7	21.1
8 29	22 4.10	- 8 45.3	2.481	3.487	1.9	19.3	8 29	22 3.44	-15 48.5	1.850	2.852	3.3	21.2
9 8	21 57.44	- 9 32.1	2.507	3.481	5.0	19.5	9 8	21 55.79	-16 38.0	1.882	2.848	7.1	21.5
9 18	21 51.72	-10 14.8	2.561	3.476	8.0	19.7	9 18	21 49.48	-17 15.7	1.940	2.844	10.7	21.7
9 28	21 47.44	-10 50.4	2.639	3.470	10.6	19.9	9 28	21 45.15	-17 39.3	2.020	2.840	13.8	21.9
<b>256719</b>	2008 AJ <sub>63</sub>		8 22.9 222°71	3°3/25.5	17		<b>390901</b>	2005 EB <sub>34</sub>		8 22.9 154°29	2°2/20.8	18	
7 20	22 34.61	- 1 26.9	1.763	2.602	15.4	22.0	7 20	22 35.49	-17 54.9	2.512	3.378	10.5	21.9
7 30	22 29.12	- 1 24.8	1.678	2.594	12.0	21.7	7 30	22 29.03	-18 22.1	2.448	3.388	7.7	21.7
8 9	22 21.45	- 1 39.4	1.616	2.586	8.2	21.5	8 9	22 21.02	-18 50.8	2.409	3.396	4.6	21.6
8 19	22 12.22	- 2 9.3	1.577	2.577	4.5	21.2	8 19	22 12.03	-19 17.1	2.399	3.404	2.3	21.4
8 29	22 2.37	- 2 50.9	1.566	2.567	3.7	21.2	8 29	22 2.81	-19 37.1	2.418	3.411	3.6	21.5
9 8	21 53.02	- 3 38.8	1.581	2.557	7.2	21.4	9 8	21 54.16	-19 48.0	2.466	3.418	6.5	21.7
9 18	21 45.18	- 4 27.0	1.622	2.546	11.2	21.6	9 18	21 46.74	-19 48.4	2.541	3.424	9.3	21.9
9 28	21 39.66	- 5 10.1	1.686	2.534	14.8	21.8	9 28	21 41.11	-19 38.1	2.640	3.429	11.8	22.1
<b>477954</b>	2011 RW <sub>15</sub>		8 22.9 111°67	3°6/26.1	16		<b>167557</b>	2004 BR <sub>32</sub>		8 22.9 287°80	1°7/21.5	18	
7 20	22 32.71	- 0 7.1	2.017	2.846	14.1	21.3	7 20	22 31.29	-13 51.4	1.877	2.757	12.8	20.4
7 30	22 27.28	+ 0 2.9	1.948	2.856	11.1	21.1	7 30	22 26.50	-14 28.7	1.806	2.753	9.4	20.2
8 9	22 20.11	- 0 2.1	1.902	2.866	7.7	20.9	8 9	22 19.77	-15 13.1	1.758	2.749	5.6	20.0
8 19	22 11.78	- 0 21.0	1.881	2.876	4.6	20.8	8 19	22 11.72	-15 59.5	1.736	2.745	2.0	19.7
8 29	22 3.12	- 0 50.9	1.887	2.885	3.8	20.7	8 29	22 3.25	-16 42.2	1.741	2.741	3.6	19.8
9 8	21 55.05	- 1 27.4	1.921	2.895	6.3	20.9	9 8	21 55.34	-17 16.0	1.773	2.738	7.6	20.1
9 18	21 48.32	- 2 5.7	1.981	2.904	9.5	21.1	9 18	21 48.87	-17 37.7	1.830	2.734	11.2	20.3
9 28	21 43.56	- 2 41.4	2.065	2.912	12.5	21.3	9 28	21 44.52	-17 45.5	1.909	2.730	14.4	20.5
<b>92039</b>	1999 VJ <sub>187</sub>		8 22.9 187°27	5°8/30.0	18		<b>499038</b>	2009 DF <sub>57</sub>		8 22.9 195°68	0°8/22.4	17	
7 20	22 27.63	+10 30.0	2.513	3.279	13.4	19.9	7 20	22 34.62	-10 23.4	1.537	2.414	15.4	22.2
7 30	22 23.38	+10 33.0	2.427	3.279	11.2	19.7	7 30	22 29.33	-11 6.5	1.468	2.412	11.4	21.9
8 9	22 17.72	+10 17.0	2.363	3.278	9.0	19.5	8 9	22 21.64	-12 2.2	1.421	2.411	6.8	21.7
8 19	22 11.10	+ 9 41.9	2.322	3.278	6.9	19.4	8 19	22 12.29	-13 4.6	1.398	2.408	1.9	21.4
8 29	22 4.14	+ 8 49.4	2.307	3.277	5.9	19.4	8 29	22 2.38	-14 6.2	1.402	2.406	3.5	21.5
9 8	21 57.53	+ 7 43.6	2.320	3.276	6.6	19.4	9 8	21 53.17	-14 59.7	1.432	2.403	8.4	21.8
9 18	21 51.92	+ 6 29.6	2.359	3.275	8.5	19.5	9 18	21 45.76	-15 39.8	1.487	2.399	12.8	22.0
9 28	21 47.83	+ 5 13.2	2.424	3.274	10.8	19.7	9 28	21 40.97	-16 3.8	1.562	2.395	16.5	22.3
<b>349408</b>	2007 YQ <sub>32</sub>		8 22.9 91°15	2°8/25.4	18		<b>46717</b>	1997 NY <sub>5</sub>		8 22.9 348°22	2°2/24.5	18	
7 20	22 30.41	- 1 57.1	1.963	2.									

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>103865</b>	2000 <i>DY</i> <sub>42</sub>	8 22.9	29°46'	0°9'	22.2	18	<b>477917</b>	2011 <i>OK</i> <sub>1</sub>	8 22.9	10°55'	10°1'	26.3	18
7 20	22 30.16	-11 10.3	1.734	2.613	13.7	19.3	7 20	22 35.01	-0 14.9	0.902	1.783	23.1	18.6
7 30	22 25.73	-11 51.7	1.670	2.616	10.1	19.1	7 30	22 30.44	+2 29.5	0.860	1.790	18.9	18.4
8 9	22 19.32	-12 43.0	1.628	2.619	6.0	18.8	8 9	22 22.62	+4 53.1	0.835	1.800	14.5	18.2
8 19	22 11.60	-13 39.2	1.612	2.622	1.7	18.5	8 19	22 12.64	+6 47.1	0.829	1.813	11.1	18.1
8 29	22 3.48	-14 33.8	1.623	2.626	3.2	18.7	8 29	22 2.18	+8 6.5	0.844	1.829	10.3	18.1
9 8	21 56.00	-15 20.8	1.660	2.630	7.5	18.9	9 8	21 53.07	+8 52.6	0.880	1.848	12.5	18.3
9 18	21 50.04	-15 55.9	1.721	2.634	11.4	19.2	9 18	21 46.69	+9 11.7	0.935	1.869	16.0	18.6
9 28	21 46.26	-16 16.7	1.805	2.638	14.7	19.4	9 28	21 43.88	+9 13.6	1.007	1.893	19.5	18.9
<b>458493</b>	2011 <i>CE</i> <sub>3</sub>	8 22.9	211°00'	4°7'	24.6	17	<b>361880</b>	2008 <i>FF</i> <sub>55</sub>	8 22.9	178°44'	1°8'	25.1	18
7 20	22 47.05	-5 5.1	1.217	2.073	19.8	21.0	7 20	22 29.04	-2 44.2	2.697	3.529	10.9	22.0
7 30	22 39.19	-3 48.7	1.144	2.070	15.6	20.7	7 30	22 24.30	-3 9.3	2.616	3.530	8.3	21.8
8 9	22 27.93	-2 43.8	1.091	2.066	10.6	20.4	8 9	22 18.25	-3 45.8	2.559	3.531	5.5	21.6
8 19	22 14.18	-1 52.2	1.062	2.063	5.9	20.2	8 19	22 11.32	-4 31.4	2.529	3.532	2.7	21.4
8 29	21 59.52	-1 14.3	1.058	2.058	5.5	20.1	8 29	22 4.09	-5 22.9	2.528	3.532	2.2	21.4
9 8	21 45.86	-0 48.1	1.080	2.053	10.0	20.4	9 8	21 57.22	-6 16.1	2.557	3.532	4.9	21.6
9 18	21 34.80	-0 30.2	1.125	2.048	15.1	20.6	9 18	21 51.29	-7 7.1	2.613	3.531	7.7	21.8
9 28	21 27.40	-0 15.8	1.191	2.042	19.5	20.9	9 28	21 46.79	-7 52.5	2.695	3.530	10.3	22.0
<b>362569</b>	2010 <i>VK</i> <sub>85</sub>	8 22.9	116°18'	8°6'	11.8	18	<b>278072</b>	2007 <i>AB</i> <sub>7</sub>	8 22.9	129°21'	2°7'	20.7	18
7 20	22 34.76	-41 14.0	2.610	3.460	10.6	20.9	7 20	22 32.39	-14 23.4	1.633	2.518	14.1	20.4
7 30	22 28.81	-42 35.1	2.579	3.470	9.3	20.8	7 30	22 27.53	-15 33.7	1.573	2.523	10.3	20.2
8 9	22 21.02	-43 43.2	2.572	3.480	8.6	20.8	8 9	22 20.50	-16 52.4	1.536	2.528	6.1	19.9
8 19	22 12.06	-44 32.4	2.590	3.489	8.8	20.8	8 19	22 12.00	-18 12.1	1.525	2.533	2.8	19.7
8 29	22 2.84	-44 58.6	2.632	3.499	9.8	20.9	8 29	22 3.07	-19 24.4	1.541	2.537	4.8	19.9
9 8	21 54.34	-45 0.3	2.697	3.508	11.2	21.0	9 8	21 54.86	-20 22.5	1.583	2.542	8.8	20.1
9 18	21 47.34	-44 39.1	2.783	3.517	12.6	21.1	9 18	21 48.34	-21 2.3	1.649	2.546	12.7	20.4
9 28	21 42.45	-43 58.0	2.887	3.526	13.9	21.2	9 28	21 44.22	-21 22.5	1.736	2.550	16.0	20.6
<b>223357</b>	2003 <i>RW</i> <sub>25</sub>	8 22.9	294°65'	0°2'	23.1	17	<b>132504</b>	2002 <i>JV</i> <sub>35</sub>	8 22.9	141°30'	7°9'	15.2	18
7 20	22 37.04	-11 50.4	2.293	3.148	11.7	19.8	7 20	22 35.08	-31 17.3	1.932	2.813	12.4	19.6
7 30	22 30.56	-11 28.5	2.191	3.123	8.8	19.6	7 30	22 29.42	-32 48.0	1.887	2.819	10.0	19.5
8 9	22 22.20	-11 10.4	2.113	3.098	5.4	19.3	8 9	22 21.58	-34 11.2	1.865	2.824	8.2	19.4
8 19	22 12.46	-10 54.4	2.063	3.073	1.6	19.0	8 19	22 12.30	-35 18.2	1.869	2.829	8.0	19.4
8 29	22 2.16	-10 38.1	2.043	3.047	2.3	19.0	8 29	22 2.65	-36 2.2	1.899	2.834	9.4	19.5
9 8	21 52.21	-10 19.5	2.052	3.022	6.2	19.2	9 8	21 53.78	-36 20.1	1.953	2.838	11.7	19.6
9 18	21 43.49	-9 57.1	2.088	2.997	9.8	19.4	9 18	21 46.67	-36 12.3	2.028	2.842	14.1	19.8
9 28	21 36.69	-9 29.7	2.149	2.971	13.0	19.6	9 28	21 41.98	-35 41.9	2.123	2.846	16.2	20.0
<b>104475</b>	2000 <i>GB</i> <sub>20</sub>	8 22.9	78°77'	0°1'	22.9	17	<b>421928</b>	2014 <i>QC</i> <sub>239</sub>	8 22.9	294°32'	0°6'	22.4	17
7 20	22 34.17	-9 21.5	1.512	2.387	15.6	20.6	7 20	22 27.11	-10 32.9	2.434	3.302	10.7	21.3
7 30	22 28.78	-9 51.2	1.460	2.403	11.5	20.4	7 30	22 23.11	-11 15.0	2.350	3.290	7.9	21.1
8 9	22 21.16	-10 32.7	1.431	2.419	6.9	20.2	8 9	22 17.64	-12 5.5	2.290	3.279	4.7	20.9
8 19	22 12.13	-11 20.9	1.425	2.435	2.0	19.9	8 19	22 11.16	-13 0.6	2.257	3.268	1.3	20.6
8 29	22 2.81	-12 9.2	1.446	2.451	3.0	20.1	8 29	22 4.31	-13 55.9	2.253	3.256	2.4	20.7
9 8	21 54.38	-12 51.3	1.494	2.467	7.7	20.4	9 8	21 57.80	-14 46.7	2.277	3.245	5.9	20.9
9 18	21 47.80	-13 22.7	1.565	2.483	11.9	20.7	9 18	21 52.29	-15 29.3	2.327	3.234	9.0	21.1
9 28	21 43.72	-13 40.9	1.658	2.499	15.4	20.9	9 28	21 48.35	-16 0.9	2.401	3.223	11.8	21.3
<b>25545</b>	1999 <i>XG</i> <sub>164</sub>	8 22.9	265°28'	6°2'	16.4	18	<b>420467</b>	2012 <i>DZ</i> <sub>86</sub>	8 22.9	117°11'	0°3'	22.8	17
7 20	22 31.76	-25 11.1	1.953	2.842	12.0	18.3	7 20	22 37.75	-10 59.7	1.582	2.453	15.3	21.5
7 30	22 27.07	-26 46.5	1.882	2.827	9.2	18.1	7 30	22 31.39	-11 13.2	1.524	2.465	11.3	21.3
8 9	22 20.27	-28 22.1	1.835	2.812	6.9	18.0	8 9	22 22.75	-11 36.0	1.489	2.477	6.8	21.0
8 19	22 11.94	-29 49.4	1.814	2.796	6.3	17.9	8 19	22 12.64	-12 3.5	1.478	2.488	1.9	20.8
8 29	22 3.00	-31 0.1	1.821	2.780	8.0	18.0	8 29	22 2.19	-12 30.3	1.495	2.499	3.1	20.9
9 8	21 54.56	-31 48.6	1.852	2.764	10.8	18.1	9 8	21 52.63	-12 51.5	1.538	2.510	7.7	21.2
9 18	21 47.58	-32 12.5	1.906	2.748	13.8	18.3	9 18	21 44.96	-13 3.6	1.606	2.520	11.9	21.5
9 28	21 42.87	-32 12.6	1.980	2.732	16.4	18.4	9 28	21 39.87	-13 4.9	1.696	2.530	15.4	21.7
<b>253467</b>	2003 <i>SW</i> <sub>31</sub>	8 22.9	125°13'	2°8'	25.3	17	<b>374789</b>	2006 <i>TD</i> <sub>53</sub>	8 22.9	334°19'	3°9'	25.5	16
7 20	22 33.57	-1 27.8	1.609	2.456	16.2	20.7	7 20	22 25.71	-1 48.6	1.096	1.981	19.5	20.8
7 30	22 28.32	-1 49.8	1.546	2.467	12.5	20.5	7 30	22 23.54	-1 48.4	1.021	1.963	15.4	20.5
8 9	22 20.92	-2 30.9	1.503	2.477	8.4	20.2	8 9	22 18.61	-2 13.6	0.964	1.946	10.5	20.1
8 19	22 12.09	-3 28.0	1.485	2.487	4.2	20.0	8 19	22 11.57	-3 3.0	0.927	1.931	5.6	19.8
8 29	22 2.86	-4 35.1	1.494	2.497	3.4	20.0	8 29	22 3.65	-4 10.8	0.912	1.916	4.4	19.7
9 8	21 54.36	-5 44.9	1.529	2.506	7.1	20.2	9 8	21 56.36	-5 27.3	0.918	1.903	9.2	19.9
9 18	21 47.55	-6 50.5	1.589	2.515	11.2	20.5	9 18	21 51.09	-6 41.6	0.946	1.892	14.5	20.2
9 28	21 43.12	-7 46.2	1.672	2.523	14.8	20.8	9 28	21 48.92	-7 44.3	0.992	1.882	19.4	20.4
<b>336315</b>	2008 <i>TL</i> <sub>48</sub>	8 22.9	29°41'	3°8'	20.9	16	<b>300648</b>	2007 <i>UH</i> <sub>83</sub>	8 22.9	110°61'	1°8'	24.6	18
7 20	22 35.34	-18 45.2	1.199	2.101	16.9	20.2	7 20	22 30.72	-4 12.0	1.961	2.811	13.6	21.0
7 30	22 30.11	-19 5.4	1.156	2.113	12.4	20.0	7 30	22 25.95	-4 28.3	1.890	2.816	10.4	20.8
8 9	22 22.12	-19 27.7	1.133	2.126	7.6	19.8	8 9	22 19.41	-4 58.2	1.842	2.820	6.7	20.6
8 19	22 12.43	-19 45.2	1.133	2.140	3.9	19.6	8 19	22 11.68	-5 38.9	1.819	2.824	3.0	20.4
8 29	22 2.48	-19 51.0	1.157	2.154	5.8	19.7	8 29	22 3.59	-6 26.1	1.823	2.828	2.6	20.3
9 8	21 53.78	-19 41.4	1.205	2.170	10.3	20.0	9 8	21 56.03	-7 14.5	1.855	2.832	6.2	20.6
9 18	21 47.44	-19 15.7	1.274	2.186	14.5	20.3	9 18	21 49.82	-7 59.3	1.913	2.836	9.8	20.8
9 28	21 44.14	-18 35.3	1.363	2.203	18.1	20.6	9 28	21 45.55	-8 36.3	1.995	2.840	13.0	21.0
<b>68283</b>	2001 <i>FE</i> <sub>17</sub>	8 22.9	154°21'	1°0'	24.2	18	<b>452560</b>	2004 <i>YU</i> <sub>27</sub>	8 22.9	324°78'	13°1'		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>218220</b>	2002 VS <sub>16</sub>		8 22.9 321°43	5°4/26.3	18		<b>121623</b>	1999 VH <sub>169</sub>		8 22.9 297°56	0°4/22.6	18	
7 20	22 30.36	+ 0 27.5	1.306	2.165	18.6	20.1	7 20	22 29.71	-10 53.0	2.151	3.020	11.9	20.2
7 30	22 26.65	+ 0 55.3	1.227	2.150	14.9	19.8	7 30	22 25.19	-11 16.4	2.069	3.010	8.8	20.0
8 9	22 20.33	+ 1 1.5	1.167	2.136	10.8	19.6	8 9	22 18.97	-11 47.9	2.011	3.000	5.3	19.7
8 19	22 12.05	+ 0 45.6	1.127	2.123	6.8	19.3	8 19	22 11.58	-12 23.9	1.979	2.989	1.5	19.5
8 29	22 2.95	+ 0 10.0	1.111	2.110	5.6	19.2	8 29	22 3.78	-13 0.2	1.975	2.979	2.5	19.5
9 8	21 54.41	- 0 38.8	1.118	2.097	8.9	19.4	9 8	21 56.39	-13 32.4	1.998	2.969	6.3	19.8
9 18	21 47.72	- 1 33.0	1.148	2.086	13.4	19.6	9 18	21 50.20	-13 56.8	2.048	2.959	9.9	20.0
9 28	21 43.87	- 2 24.2	1.198	2.075	17.7	19.8	9 28	21 45.83	-14 11.2	2.120	2.949	12.9	20.1
<b>20840</b>	Borishanin		8 22.9 183°84	4°5/27.4	18		<b>263844</b>	Johnfarrell		8 22.9 150°48	3°0/20.3	18	
7 20	22 31.90	+ 4 9.6	2.224	3.027	13.8	18.9	7 20	22 34.66	-19 9.0	2.143	3.019	11.6	21.2
7 30	22 26.70	+ 4 10.4	2.141	3.028	11.1	18.8	7 30	22 28.73	-19 45.4	2.081	3.025	8.5	21.0
8 9	22 19.83	+ 3 53.9	2.080	3.028	8.2	18.6	8 9	22 21.02	-20 23.1	2.043	3.030	5.3	20.8
8 19	22 11.81	+ 3 20.9	2.044	3.027	5.5	18.4	8 19	22 12.15	-20 57.2	2.032	3.035	3.1	20.7
8 29	22 3.39	+ 2 33.7	2.035	3.026	4.5	18.3	8 29	22 3.00	-21 22.9	2.049	3.040	4.5	20.8
9 8	21 55.39	+ 1 37.1	2.055	3.024	6.3	18.5	9 8	21 54.47	-21 36.7	2.094	3.044	7.6	21.0
9 18	21 48.57	+ 0 36.3	2.101	3.022	9.2	18.6	9 18	21 47.36	-21 37.0	2.165	3.048	10.7	21.2
9 28	21 43.55	- 0 23.1	2.172	3.019	12.0	18.8	9 28	21 42.26	-21 23.9	2.258	3.052	13.4	21.4
<b>242684</b>	2005 SL <sub>250</sub>		8 22.9 306°34	0°8/22.4	18		<b>102190</b>	1999 SR <sub>3</sub>		8 22.9 325°31	3°6/21.4	18	
7 20	22 31.85	-12 34.6	1.974	2.848	12.6	20.6	7 20	22 36.88	-19 46.4	1.271	2.170	16.4	17.5
7 30	22 26.88	-12 48.5	1.896	2.839	9.3	20.4	7 30	22 32.00	-19 37.5	1.179	2.134	12.5	17.1
8 9	22 20.03	-13 9.1	1.841	2.830	5.6	20.1	8 9	22 23.87	-19 27.8	1.107	2.099	7.9	16.8
8 19	22 11.88	-13 32.7	1.812	2.822	1.6	19.9	8 19	22 13.18	-19 11.0	1.057	2.064	3.9	16.5
8 29	22 3.29	-13 55.1	1.810	2.813	2.9	19.9	8 29	22 1.27	-18 41.0	1.032	2.031	5.8	16.5
9 8	21 55.22	-14 12.0	1.835	2.805	6.9	20.2	9 8	21 49.89	-17 53.9	1.030	1.999	11.1	16.7
9 18	21 48.51	-14 20.6	1.886	2.797	10.6	20.4	9 18	21 40.70	-16 49.5	1.050	1.968	16.4	16.9
9 28	21 43.84	-14 19.1	1.960	2.790	13.8	20.6	9 28	21 34.94	-15 30.1	1.089	1.938	21.1	17.1
<b>268455</b>	2005 WE <sub>85</sub>		8 22.9 22°65	4°5/18.4	18		<b>258753</b>	2002 HL		8 22.9 108°23	7°5/15.4	18	
7 20	22 29.19	-24 48.9	2.304	3.191	10.5	19.5	7 20	22 35.90	-34 51.8	2.338	3.206	11.1	20.3
7 30	22 24.61	-25 32.6	2.256	3.201	7.9	19.4	7 30	22 29.66	-35 50.0	2.295	3.214	9.1	20.2
8 9	22 18.48	-26 13.5	2.231	3.211	5.5	19.2	8 9	22 21.55	-36 38.4	2.275	3.221	7.7	20.1
8 19	22 11.39	-26 46.7	2.233	3.222	4.5	19.2	8 19	22 12.30	-37 10.9	2.282	3.229	7.5	20.1
8 29	22 4.10	-27 7.9	2.261	3.234	5.8	19.3	8 29	22 2.83	-37 23.0	2.314	3.236	8.6	20.2
9 8	21 57.40	-27 14.4	2.316	3.246	8.1	19.4	9 8	21 54.13	-37 13.2	2.371	3.243	10.4	20.3
9 18	21 51.98	-27 5.7	2.396	3.258	10.6	19.6	9 18	21 47.00	-36 42.4	2.450	3.250	12.4	20.4
9 28	21 48.32	-26 42.4	2.497	3.271	12.8	19.8	9 28	21 42.01	-35 53.7	2.550	3.257	14.1	20.6
<b>22789</b>	1999 KA <sub>4</sub>		8 22.9 155°21	1°9/21.6	18		<b>363962</b>	2005 UL <sub>89</sub>		8 22.9 274°10	4°2/19.2	18	
7 20	22 35.75	-13 19.3	1.545	2.426	15.0	19.3	7 20	22 33.63	-23 10.8	2.198	3.078	11.2	21.3
7 30	22 30.11	-14 4.8	1.484	2.431	11.0	19.1	7 30	22 28.11	-23 47.8	2.123	3.067	8.4	21.1
8 9	22 22.10	-14 59.2	1.444	2.435	6.6	18.8	8 9	22 20.73	-24 23.8	2.073	3.055	5.7	21.0
8 19	22 12.49	-15 56.0	1.430	2.439	2.3	18.6	8 19	22 12.10	-24 53.3	2.049	3.044	4.2	20.9
8 29	22 2.42	-16 47.8	1.442	2.442	4.2	18.7	8 29	22 3.07	-25 11.4	2.053	3.032	5.6	20.9
9 8	21 53.16	-17 28.2	1.480	2.445	8.7	19.0	9 8	21 54.56	-25 14.9	2.083	3.021	8.4	21.1
9 18	21 45.76	-17 53.3	1.542	2.448	12.9	19.2	9 18	21 47.42	-25 2.7	2.139	3.009	11.4	21.2
9 28	21 40.98	-18 1.9	1.626	2.450	16.4	19.5	9 28	21 42.29	-24 35.3	2.216	2.998	14.0	21.4
<b>358389</b>	2006 YT <sub>42</sub>		8 22.9 131°47	6°5/14.3	18		<b>429476</b>	2011 AA <sub>1</sub>		8 22.9 119°91	1°0/22.2	17	
7 20	22 32.47	-32 53.0	2.681	3.552	9.8	21.3	7 20	22 34.83	-11 32.4	1.779	2.650	13.8	21.7
7 30	22 26.99	-34 21.4	2.642	3.564	7.9	21.2	7 30	22 29.07	-12 12.4	1.722	2.664	10.2	21.5
8 9	22 19.92	-35 42.5	2.629	3.576	6.7	21.2	8 9	22 21.30	-13 1.0	1.689	2.678	6.0	21.2
8 19	22 11.82	-36 50.2	2.642	3.588	6.7	21.2	8 19	22 12.25	-13 53.1	1.681	2.691	1.7	21.0
8 29	22 3.43	-37 39.8	2.682	3.599	7.8	21.3	8 29	22 2.90	-14 42.6	1.701	2.704	3.2	21.1
9 8	21 55.59	-38 8.8	2.748	3.610	9.5	21.4	9 8	21 54.31	-15 23.9	1.748	2.716	7.4	21.4
9 18	21 48.99	-38 17.1	2.837	3.621	11.3	21.6	9 18	21 47.33	-15 53.4	1.821	2.728	11.1	21.7
9 28	21 44.19	-38 6.5	2.946	3.631	12.8	21.7	9 28	21 42.62	-16 9.4	1.916	2.739	14.3	21.9
<b>173565</b>	2001 AN <sub>27</sub>		8 22.9 168°66	3°9/19.5	17		<b>204475</b>	2005 AC <sub>40</sub>		8 22.9 246°01	0°3/22.7	18	
7 20	22 37.20	-20 10.8	1.986	2.862	12.4	21.1	7 20	22 29.77	- 8 9.8	1.991	2.856	12.8	20.6
7 30	22 30.78	-21 11.4	1.924	2.868	9.2	20.9	7 30	22 25.41	- 9 11.1	1.908	2.846	9.6	20.4
8 9	22 22.33	-22 13.6	1.887	2.873	5.9	20.7	8 9	22 19.20	-10 25.8	1.847	2.835	5.8	20.2
8 19	22 12.53	-23 10.6	1.877	2.877	4.0	20.6	8 19	22 11.69	-11 49.2	1.813	2.823	1.6	19.9
8 29	22 2.36	-23 56.0	1.896	2.880	5.6	20.7	8 29	22 3.66	-13 14.6	1.808	2.812	2.7	19.9
9 8	21 52.88	-24 25.5	1.941	2.882	8.7	20.9	9 8	21 56.03	-14 34.8	1.830	2.800	6.9	20.2
9 18	21 44.98	-24 37.2	2.012	2.883	11.9	21.1	9 18	21 49.65	-15 44.0	1.878	2.788	10.7	20.4
9 28	21 39.35	-24 31.6	2.104	2.884	14.7	21.3	9 28	21 45.24	-16 38.3	1.950	2.775	14.0	20.6
<b>156650</b>	2002 JQ <sub>54</sub>		8 22.9 70°02	7°6/ 1.1	18		<b>335846</b>	2007 MW <sub>21</sub>		8 22.9 12°73	4°1/27.0	16	
7 20	22 28.12	+14 50.2	2.298	3.040	15.1	19.8	7 20	22 26.23	+ 4 8.4	1.459	2.301	17.9	19.8
7 30	22 23.86	+15 7.9	2.226	3.052	13.0	19.6	7 30	22 23.20	+ 3 13.4	1.389	2.302	14.2	19.5
8 9	22 18.08	+15 3.1	2.173	3.063	10.8	19.5	8 9	22 18.02	+ 1 49.0	1.339	2.305	10.0	19.3
8 19	22 11.30	+14 35.2	2.142	3.075	8.8	19.4	8 19	22 11.36	+ 0 1.4	1.311	2.307	5.9	19.1
8 29	22 4.21	+13 45.3	2.136	3.086	7.7	19.3	8 29	22 4.20	+ 2 9.7	1.309	2.311	4.2	19.0
9 8	21 57.57	+12 37.7	2.156	3.098	7.9	19.4	9 8	21 57.67	+ 4 24.2	1.333	2.314	7.4	19.2
9 18	21 52.07	+11 18.3	2.201	3.109	9.4	19.5	9 18	21 52.75	+ 6 33.3	1.382	2.319	11.6	19.4
9 28	21 48.24	+ 9 53.7	2.271	3.121	11.4	19.7	9 28	21 50.18	+ 8 27.2	1.454	2.324	15.5	19.7
<b>156171</b>	2001 TX <sub>150</sub>		8 22.9 240°52	4°5/19.2	17		<b>358945</b>	2008 JN <sub>25</sub>		8 22			

EPHEMERIDES

8 22.9

8 23.0

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>16266</b>	Johconnell		8 22.9 100°19	8°3/14.9	18		<b>157350</b>	2004 TB <sub>69</sub>		8 22.9 279°57	1°3/24.4	18	
7 20	22 35.62	-33 59.0	2.007	2.883	12.3	18.4	7 20	22 27.33	-4 6.1	2.274	3.123	12.0	19.8
7 30	22 29.75	-35 18.3	1.967	2.891	10.1	18.3	7 30	22 23.38	-4 45.9	2.188	3.114	9.2	19.6
8 9	22 21.75	-36 27.6	1.950	2.900	8.6	18.2	8 9	22 17.89	-5 39.2	2.125	3.104	5.9	19.4
8 19	22 12.39	-37 18.9	1.958	2.908	8.4	18.3	8 19	22 11.32	-6 43.1	2.088	3.095	2.4	19.1
8 29	22 2.75	-37 46.6	1.992	2.916	9.7	18.4	8 29	22 4.35	-7 53.0	2.080	3.085	2.2	19.1
9 8	21 53.96	-37 48.5	2.049	2.924	11.7	18.5	9 8	21 57.74	-9 3.2	2.100	3.076	5.6	19.3
9 18	21 46.93	-37 25.9	2.128	2.932	13.9	18.7	9 18	21 52.18	-10 8.7	2.146	3.066	9.0	19.5
9 28	21 42.31	-36 42.0	2.226	2.940	15.8	18.8	9 28	21 48.26	-11 4.9	2.217	3.057	12.1	19.7
<b>233963</b>	2010 AP <sub>31</sub>		8 22.9 191°92	1°0/21.9	18		<b>420315</b>	2011 YR <sub>65</sub>		8 23.0 203°06	2°6/24.9	17	
7 20	22 32.05	-11 29.3	2.150	3.016	12.0	21.7	7 20	22 35.04	-3 11.8	1.591	2.443	16.2	21.5
7 30	22 26.89	-12 18.6	2.075	3.015	8.8	21.5	7 30	22 29.64	-3 18.8	1.515	2.440	12.5	21.3
8 9	22 20.00	-13 16.5	2.025	3.013	5.2	21.3	8 9	22 21.91	-3 42.9	1.460	2.437	8.3	21.0
8 19	22 11.91	-14 18.3	2.001	3.011	1.6	21.0	8 19	22 12.53	-4 21.8	1.430	2.433	4.0	20.8
8 29	22 3.43	-15 18.4	2.006	3.008	3.0	21.1	8 29	22 2.56	-5 10.7	1.425	2.429	3.4	20.7
9 8	21 55.41	-16 11.4	2.039	3.004	6.7	21.3	9 8	21 53.21	-6 3.1	1.447	2.425	7.5	21.0
9 18	21 48.66	-16 53.5	2.099	3.000	10.2	21.5	9 18	21 45.55	-6 52.6	1.494	2.420	11.8	21.2
9 28	21 43.78	-17 22.2	2.182	2.996	13.1	21.7	9 28	21 40.42	-7 33.8	1.563	2.414	15.7	21.4
<b>48116</b>	2001 FK <sub>90</sub>		8 22.9 30°16	3°4/25.6	17		<b>447536</b>	2006 SZ <sub>232</sub>		8 23.0 240°33	1°8/21.5	18	
7 20	22 29.20	-0 41.9	1.248	2.116	18.7	18.4	7 20	22 34.00	-15 57.6	2.130	3.002	11.8	21.3
7 30	22 25.61	-1 5.7	1.190	2.122	14.6	18.1	7 30	22 28.36	-16 17.3	2.053	2.996	8.7	21.1
8 9	22 19.56	-1 54.2	1.151	2.129	9.8	17.9	8 9	22 20.90	-16 40.7	2.001	2.990	5.2	20.9
8 19	22 11.82	-3 3.8	1.134	2.137	5.0	17.6	8 19	22 12.20	-17 3.6	1.975	2.983	2.1	20.7
8 29	22 3.60	-4 27.1	1.141	2.145	3.9	17.6	8 29	22 3.11	-17 21.9	1.978	2.977	3.5	20.8
9 8	21 56.22	-5 53.7	1.172	2.154	8.1	17.9	9 8	21 54.54	-17 31.8	2.008	2.970	7.1	21.0
9 18	21 50.78	-7 14.3	1.226	2.164	12.7	18.2	9 18	21 47.31	-17 31.4	2.064	2.963	10.5	21.2
9 28	21 48.05	-8 21.3	1.301	2.174	16.8	18.5	9 28	21 42.08	-17 19.7	2.144	2.955	13.4	21.4
<b>177406</b>	2004 BU <sub>145</sub>		8 22.9 243°17	0°8/22.3	18		<b>417367</b>	2006 GD <sub>26</sub>		8 23.0 319°24	6°8/18.9	17	
7 20	22 31.59	-9 23.4	1.559	2.437	15.1	20.2	7 20	22 34.78	-22 48.3	1.158	2.066	16.9	20.4
7 30	22 27.16	-10 21.9	1.487	2.432	11.2	20.0	7 30	22 30.37	-23 48.7	1.096	2.054	12.9	20.1
8 9	22 20.44	-11 35.3	1.436	2.426	6.7	19.7	8 9	22 22.77	-24 50.1	1.054	2.042	8.8	19.9
8 19	22 12.09	-12 57.2	1.410	2.420	1.9	19.4	8 19	22 12.85	-25 41.8	1.033	2.031	6.8	19.7
8 29	22 3.15	-14 19.5	1.410	2.414	3.5	19.5	8 29	22 2.14	-26 12.9	1.036	2.020	9.0	19.8
9 8	21 54.81	-15 33.5	1.437	2.408	8.3	19.8	9 8	21 52.41	-26 17.0	1.060	2.010	13.2	20.0
9 18	21 48.14	-16 32.9	1.488	2.401	12.7	20.0	9 18	21 45.15	-25 53.1	1.105	2.000	17.6	20.2
9 28	21 43.95	-17 14.1	1.560	2.395	16.5	20.2	9 28	21 41.34	-25 4.0	1.166	1.992	21.5	20.5
<b>515620</b>	2014 KK <sub>98</sub>		8 22.9 14°81	4°5/18.6	18		<b>156256</b>	2001 VC <sub>8</sub>		8 23.0 260°06	4°5/19.6	17	
7 20	22 29.75	-21 9.2	1.896	2.788	12.2	20.5	7 20	22 34.72	-20 27.8	1.625	2.515	13.9	20.1
7 30	22 25.42	-22 19.0	1.839	2.790	9.0	20.4	7 30	22 29.42	-21 21.0	1.562	2.512	10.3	19.8
8 9	22 19.18	-23 30.1	1.805	2.792	6.0	20.2	8 9	22 21.75	-22 16.3	1.521	2.508	6.7	19.6
8 19	22 11.69	-24 35.6	1.798	2.794	4.5	20.1	8 19	22 12.48	-23 6.1	1.504	2.505	4.5	19.5
8 29	22 3.82	-25 28.7	1.816	2.797	6.2	20.2	8 29	22 2.72	-23 43.0	1.514	2.501	6.3	19.6
9 8	21 56.57	-26 4.5	1.861	2.800	9.2	20.4	9 8	21 53.70	-24 2.1	1.550	2.498	10.0	19.8
9 18	21 50.79	-26 21.0	1.929	2.803	12.3	20.6	9 18	21 46.51	-24 1.5	1.608	2.494	13.6	20.0
9 28	21 47.11	-26 18.3	2.018	2.806	14.9	20.8	9 28	21 41.89	-23 41.8	1.687	2.490	16.8	20.2
<b>448658</b>	2010 VV <sub>147</sub>		8 22.9 300°53	5°8/16.9	18		<b>112164</b>	2002 JH <sub>80</sub>		8 23.0 8°01	4°8/20.4	18	
7 20	22 30.94	-26 34.3	2.128	3.015	11.3	20.6	7 20	22 28.65	-18 19.6	0.876	1.803	19.1	18.2
7 30	22 26.25	-27 44.0	2.064	3.007	8.7	20.5	7 30	22 26.02	-18 58.4	0.834	1.804	14.1	17.9
8 9	22 19.68	-28 51.1	2.024	2.998	6.5	20.3	8 9	22 20.13	-19 42.4	0.809	1.806	8.7	17.6
8 19	22 11.84	-29 48.8	2.010	2.990	5.9	20.3	8 19	22 12.05	-20 21.6	0.804	1.811	4.9	17.4
8 29	22 3.58	-30 31.0	2.022	2.983	7.3	20.3	8 29	22 3.45	-20 45.8	0.819	1.817	7.2	17.6
9 8	21 55.86	-30 53.7	2.060	2.975	9.8	20.5	9 8	21 56.16	-20 48.3	0.855	1.826	12.4	17.9
9 18	21 49.52	-30 55.8	2.122	2.967	12.4	20.6	9 18	21 51.55	-20 27.6	0.909	1.836	17.3	18.2
9 28	21 45.23	-30 38.3	2.204	2.960	14.8	20.8	9 28	21 50.39	-19 45.4	0.980	1.848	21.4	18.5
<b>42130</b>	2001 BW <sub>19</sub>		8 22.9 160°39	1°0/24.2	18 R		<b>92038</b>	1999 VK <sub>186</sub>		8 23.0 270°22	3°3/26.6	18	
7 20	22 27.59	-4 30.1	2.419	3.266	11.5	19.0	7 20	22 28.11	+1 33.0	2.392	3.212	12.4	19.9
7 30	22 23.42	-5 17.8	2.343	3.268	8.7	18.8	7 30	22 23.93	+1 20.8	2.296	3.197	9.9	19.7
8 9	22 17.83	-6 18.0	2.290	3.270	5.5	18.6	8 9	22 18.23	+0 53.2	2.222	3.182	7.1	19.5
8 19	22 11.28	-7 27.1	2.264	3.271	2.1	18.4	8 19	22 11.45	+0 11.3	2.174	3.166	4.3	19.3
8 29	22 4.42	-8 40.6	2.267	3.273	2.0	18.4	8 29	22 4.23	-0 41.9	2.153	3.151	3.5	19.2
9 8	21 57.95	-9 53.0	2.299	3.274	5.3	18.6	9 8	21 57.31	-1 42.1	2.161	3.135	5.6	19.3
9 18	21 52.50	-10 59.5	2.359	3.275	8.5	18.8	9 18	21 51.37	-2 44.3	2.195	3.120	8.6	19.5
9 28	21 48.59	-11 56.4	2.443	3.277	11.3	19.0	9 28	21 47.02	-3 43.3	2.255	3.104	11.5	19.6
<b>281219</b>	2007 HK <sub>33</sub>		8 22.9 47°24	9°8/15.9	17		<b>345023</b>	2005 EF <sub>83</sub>		8 23.0 175°78	2°3/21.1	18	
7 20	22 37.06	-32 45.4	1.426	2.319	15.4	19.3	7 20	22 35.25	-17 6.7	2.144	3.016	11.8	21.2
7 30	22 31.34	-34 8.3	1.395	2.332	12.5	19.2	7 30	22 29.21	-17 31.7	2.075	3.018	8.6	21.0
8 9	22 22.89	-35 18.7	1.385	2.345	10.3	19.1	8 9	22 21.37	-17 59.4	2.030	3.019	5.2	20.8
8 19	22 12.74	-36 6.2	1.397	2.359	9.9	19.1	8 19	22 12.34	-18 25.4	2.013	3.020	2.4	20.6
8 29	22 2.38	-36 23.8	1.433	2.373	11.4	19.3	8 29	22 2.97	-18 45.2	2.024	3.020	3.8	20.7
9 8	21 53.29	-36 9.6	1.491	2.388	13.9	19.5	9 8	21 54.21	-18 55.5	2.063	3.020	7.2	20.9
9 18	21 46.58	-35 26.8	1.569	2.403	16.6	19.7	9 18	21 46.84	-18 54.4	2.128	3.020	10.5	21.1
9 28	21 42.91	-34 20.6	1.664	2.418	18.9	19.9	9 28	21 41.48	-18 41.5	2.216	3.020	13.3	21.3
<b>373161</b>	2012 CE <sub>53</sub>		8 22.9 105°80	0°5/23.4	17		<b>16799</b>	1997 JU <sub>7</sub>		8 23.0 300°02	8°5/30.2	18	
7 20	22 36.82	-8 5.8	1.588	2.453	15.5								