

EPHEMERIDES

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5 22.0

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>185654</b>	3980 $T_{-3}$		5 21.9 250°44	0°5/21.7	18		<b>101640</b>	1999 $CG_{48}$		5 22.0 72°69	9°5/17.8	17	
4 21	16 18.19	-20 7.2	2.111	2.989	11.2	20.4	4 21	16 19.30	+ 1 31.1	1.594	2.465	14.6	18.8
5 1	16 12.49	-19 47.0	2.035	2.983	7.9	20.2	5 1	16 13.35	+ 2 38.9	1.554	2.477	11.9	18.6
5 11	16 5.08	-19 22.0	1.984	2.978	4.2	19.9	5 11	16 5.53	+ 3 30.8	1.537	2.489	9.9	18.6
5 21	15 56.67	-18 53.9	1.960	2.972	0.6	19.6	5 21	15 56.75	+ 4 1.1	1.543	2.501	9.6	18.6
5 31	15 48.16	-18 25.2	1.964	2.966	3.7	19.9	5 31	15 48.08	+ 4 6.2	1.573	2.513	11.0	18.7
6 10	15 40.44	-17 58.8	1.995	2.960	7.5	20.1	6 10	15 40.55	+ 3 46.0	1.626	2.525	13.4	18.8
6 20	15 34.25	-17 37.7	2.051	2.953	10.9	20.3	6 20	15 34.88	+ 3 2.9	1.700	2.538	15.9	19.0
6 30	15 30.11	-17 24.2	2.129	2.947	13.8	20.5	6 30	15 31.55	+ 2 1.3	1.791	2.550	18.2	19.2
<b>270388</b>	2002 $AV_{138}$		5 21.9 204°57	2°2/20.7	18		<b>284570</b>	2007 $TR_{55}$		5 22.0 235°53	0°5/22.3	18	
4 21	16 19.93	-15 8.0	2.264	3.140	10.6	21.6	4 21	16 18.95	-22 51.6	2.156	3.029	11.2	21.2
5 1	16 13.57	-14 35.3	2.188	3.134	7.6	21.4	5 1	16 13.05	-22 39.0	2.078	3.023	8.0	21.0
5 11	16 5.62	-14 1.3	2.137	3.129	4.3	21.2	5 11	16 5.41	-22 20.0	2.025	3.017	4.4	20.7
5 21	15 56.73	-13 28.3	2.115	3.122	2.2	21.1	5 21	15 56.75	-21 55.3	1.998	3.010	0.7	20.4
5 31	15 47.75	-12 59.2	2.121	3.115	4.5	21.2	5 31	15 47.96	-21 27.2	2.001	3.004	3.5	20.6
6 10	15 39.52	-12 36.6	2.155	3.107	7.8	21.4	6 10	15 39.98	-20 58.6	2.030	2.997	7.2	20.8
6 20	15 32.73	-12 22.6	2.215	3.099	11.0	21.6	6 20	15 33.53	-20 32.9	2.085	2.990	10.6	21.0
6 30	15 27.86	-12 18.4	2.296	3.090	13.7	21.7	6 30	15 29.16	-20 12.9	2.162	2.983	13.6	21.2
<b>64193</b>	2001 $TD_{71}$		5 21.9 65°45	0°3/21.9	18		<b>211</b>	Isolda		5 22.0 158°56	0°6/22.4	18	
4 21	16 23.67	-19 35.6	1.283	2.176	15.9	18.8	4 21	16 18.13	-23 43.3	2.624	3.489	9.7	13.4
5 1	16 17.13	-19 44.2	1.227	2.182	11.3	18.5	5 1	16 12.15	-23 25.6	2.553	3.494	6.9	13.2
5 11	16 7.84	-19 48.5	1.192	2.187	6.1	18.3	5 11	16 4.79	-23 1.8	2.509	3.499	3.8	13.0
5 21	15 56.94	-19 48.8	1.182	2.194	0.6	17.9	5 21	15 56.69	-22 32.8	2.492	3.504	0.8	12.7
5 31	15 45.97	-19 47.2	1.196	2.200	5.1	18.2	5 31	15 48.58	-22 0.7	2.505	3.508	2.9	12.9
6 10	15 36.44	-19 46.6	1.235	2.206	10.3	18.5	6 10	15 41.18	-21 28.0	2.547	3.512	6.1	13.1
6 20	15 29.46	-19 50.4	1.295	2.212	14.9	18.8	6 20	15 35.09	-20 57.7	2.615	3.515	8.9	13.3
6 30	15 25.68	-20 1.2	1.374	2.219	18.7	19.1	6 30	15 30.72	-20 32.2	2.706	3.518	11.4	13.5
<b>201650</b>	2003 $TS_3$		5 21.9 297°11	0°2/22.1	17		<b>248064</b>	2004 $NH_{31}$		5 22.0 265°28	7°7/27.6	18	
4 21	16 19.42	-21 24.4	1.806	2.688	12.6	20.5	4 21	16 24.73	-48 45.3	2.808	3.559	12.1	20.7
5 1	16 13.68	-21 22.0	1.729	2.679	9.0	20.2	5 1	16 17.34	-49 0.6	2.704	3.536	10.6	20.6
5 11	16 5.86	-21 14.1	1.676	2.670	4.9	20.0	5 11	16 7.81	-48 56.6	2.622	3.512	9.0	20.4
5 21	15 56.77	-21 1.3	1.649	2.661	0.5	19.6	5 21	15 56.98	-48 30.1	2.564	3.488	7.9	20.3
5 31	15 47.47	-20 45.6	1.649	2.653	4.0	19.9	5 31	15 45.95	-47 40.6	2.532	3.464	7.7	20.3
6 10	15 39.08	-20 30.0	1.676	2.644	8.3	20.1	6 10	15 35.88	-46 30.7	2.526	3.439	8.7	20.3
6 20	15 32.49	-20 17.6	1.726	2.636	12.2	20.3	6 20	15 27.66	-45 5.6	2.546	3.414	10.3	20.4
6 30	15 28.31	-20 11.4	1.797	2.628	15.5	20.5	6 30	15 21.93	-43 32.1	2.589	3.388	12.2	20.4
<b>44392</b>	1998 $SY_{65}$		5 22.0 281°50	1°8/21.2	18		<b>346093</b>	2007 $VF_{31}$		5 22.0 86°00	0°2/22.2	17	
4 21	16 18.80	-16 8.8	1.901	2.785	11.9	18.5	4 21	16 19.31	-23 51.5	2.168	3.038	11.2	21.2
5 1	16 13.10	-15 52.9	1.825	2.776	8.5	18.3	5 1	16 13.01	-23 5.6	2.116	3.060	7.9	21.0
5 11	16 5.49	-15 35.6	1.773	2.766	4.7	18.1	5 11	16 5.22	-22 12.1	2.089	3.081	4.3	20.8
5 21	15 56.74	-15 18.9	1.747	2.757	1.8	17.8	5 21	15 56.72	-21 13.3	2.091	3.103	0.5	20.6
5 31	15 47.82	-15 5.2	1.749	2.747	4.6	18.0	5 31	15 48.39	-20 13.0	2.121	3.124	3.4	20.8
6 10	15 39.72	-14 57.1	1.777	2.738	8.5	18.2	6 10	15 41.06	-19 15.5	2.179	3.144	6.9	21.1
6 20	15 33.26	-14 56.6	1.829	2.728	12.2	18.4	6 20	15 35.31	-18 24.4	2.263	3.165	10.1	21.3
6 30	15 29.02	-15 5.1	1.901	2.719	15.3	18.6	6 30	15 31.56	-17 42.7	2.370	3.185	12.7	21.5
<b>437527</b>	2013 $YR_{106}$		5 22.0 251°39	5°0/19.6	18		<b>504030</b>	2005 $TF_{195}$		5 22.0 218°41	0°3/21.9	17	
4 21	16 18.63	- 7 29.6	1.979	2.857	11.8	21.3	4 21	16 21.16	-20 41.6	1.995	2.870	11.9	23.0
5 1	16 12.83	- 6 54.2	1.907	2.849	8.8	21.1	5 1	16 14.72	-20 26.2	1.916	2.863	8.4	22.8
5 11	16 5.29	- 6 24.1	1.861	2.841	6.1	20.9	5 11	16 6.36	-20 5.4	1.863	2.856	4.6	22.5
5 21	15 56.73	- 6 2.8	1.840	2.832	5.0	20.8	5 21	15 56.85	-19 40.5	1.836	2.848	0.5	22.2
5 31	15 48.04	- 5 53.2	1.846	2.823	6.8	20.9	5 31	15 47.18	-19 13.7	1.838	2.840	3.9	22.4
6 10	15 40.13	- 5 57.4	1.879	2.814	9.8	21.1	6 10	15 38.38	-18 48.3	1.866	2.831	7.9	22.7
6 20	15 33.75	- 6 15.6	1.934	2.805	12.9	21.2	6 20	15 31.26	-18 27.6	1.920	2.822	11.6	22.9
6 30	15 29.45	- 6 47.1	2.010	2.796	15.6	21.4	6 30	15 26.40	-18 14.1	1.995	2.812	14.7	23.1
<b>162777</b>	2000 $XV_{23}$		5 22.0 158°66	2°1/24.0	18		<b>351993</b>	2006 $UG_{188}$		5 22.0 227°51	3°0/23.9	18	
4 21	16 14.56	-31 35.2	4.150	4.985	7.1	20.9	4 21	16 19.57	-31 44.7	2.612	3.455	10.5	21.6
5 1	16 9.30	-31 28.7	4.075	4.991	5.3	20.8	5 1	16 13.35	-31 36.3	2.523	3.445	7.9	21.5
5 11	16 3.15	-31 15.2	4.025	4.997	3.5	20.7	5 11	16 5.53	-31 16.5	2.460	3.435	5.2	21.3
5 21	15 56.53	-30 54.8	4.005	5.003	2.2	20.6	5 21	15 56.77	-30 45.2	2.424	3.424	3.1	21.1
5 31	15 49.90	-30 28.6	4.014	5.008	2.6	20.6	5 31	15 47.90	-30 3.6	2.417	3.413	3.8	21.1
6 10	15 43.73	-29 58.1	4.053	5.013	4.2	20.7	6 10	15 39.77	-29 15.0	2.438	3.401	6.4	21.3
6 20	15 38.42	-29 25.4	4.119	5.017	6.0	20.8	6 20	15 33.05	-28 23.5	2.486	3.390	9.2	21.4
6 30	15 34.27	-28 52.6	4.211	5.022	7.6	21.0	6 30	15 28.25	-27 33.2	2.557	3.377	11.7	21.6
<b>467495</b>	2006 $UZ_{156}$		5 22.0 214°10	1°2/21.4	17		<b>252893</b>	2002 $JK_{88}$		5 22.0 47°27	5°1/23.8	18	
4 21	16 21.59	-18 31.6	1.860	2.739	12.4	22.0	4 21	16 23.87	-33 56.9	2.329	3.163	11.9	20.0
5 1	16 15.09	-18 7.7	1.784	2.733	8.8	21.7	5 1	16 16.72	-35 0.4	2.256	3.166	9.3	19.8
5 11	16 6.57	-17 39.7	1.733	2.727	4.8	21.5	5 11	16 7.50	-35 52.8	2.208	3.168	6.8	19.6
5 21	15 56.85	-17 9.4	1.709	2.720	1.2	21.2	5 21	15 56.97	-36 30.8	2.187	3.170	5.2	19.5
5 31	15 46.99	-16 39.9	1.712	2.712	4.4	21.4	5 31	15 46.15	-36 53.2	2.193	3.173	5.7	19.6
6 10	15 38.05	-16 14.6	1.743	2.705	8.6	21.7	6 10	15 36.13	-37 1.3	2.227	3.176	7.8	19.7
6 20	15 30.90	-15 56.6	1.797	2.696	12.4	21.9	6 20	15 27.82	-36 58.3	2.287	3.178	10.4	19.9
6 30	15 26.13	-15 48.1	1.873	2.687	15.6	22.1	6 30	15 21.86	-36 48.9	2.368	3.181	12.8	20.0
<b>278804</b>	2008 $SM_{241}$		5 22.0 177°63	0°1/21.9	18		<b>350339</b>	2012 $UO_{102}$		5 22.0 84°79	1°1/22.4	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>37850</b>	1998 <i>DX</i> <sub>21</sub>		5 22.0 273°13	0°1/22.1	18		<b>485507</b>	2011 <i>SY</i> <sub>265</sub>		5 22.0 304°00	3°2/25.2	17	
4 21	16 20.30	-21 26.0	1.744	2.626	12.9	19.7	4 21	16 13.22	-37 5.9	4.161	4.975	7.4	21.1
5 1	16 14.30	-21 18.4	1.674	2.624	9.2	19.4	5 1	16 8.48	-37 7.9	4.076	4.970	5.9	21.0
5 11	16 6.20	-21 4.7	1.628	2.621	5.0	19.2	5 11	16 2.78	-37 1.1	4.016	4.966	4.4	20.9
5 21	15 56.85	-20 46.1	1.607	2.619	0.5	18.8	5 21	15 56.54	-36 45.3	3.983	4.962	3.3	20.8
5 31	15 47.37	-20 24.7	1.613	2.616	4.1	19.1	5 31	15 50.26	-36 21.0	3.979	4.957	3.4	20.8
6 10	15 38.90	-20 4.0	1.646	2.614	8.4	19.3	6 10	15 44.43	-35 49.8	4.003	4.953	4.6	20.9
6 20	15 32.31	-19 47.3	1.702	2.612	12.3	19.6	6 20	15 39.47	-35 13.9	4.055	4.949	6.2	21.0
6 30	15 28.21	-19 37.7	1.779	2.609	15.6	19.8	6 30	15 35.71	-34 35.8	4.131	4.945	7.7	21.1
<b>510715</b>	2012 <i>VL</i> <sub>30</sub>		5 22.0 314°54	0°2/22.1	17		<b>347716</b>	2001 <i>XQ</i> <sub>84</sub>		5 22.0 118°04	3°5/20.4	17	
4 21	16 17.78	-24 25.3	1.682	2.565	13.3	20.7	4 21	16 19.46	- 8 2.4	2.568	3.435	9.8	21.5
5 1	16 12.60	-23 27.5	1.603	2.553	9.5	20.5	5 1	16 12.98	- 7 57.6	2.512	3.450	7.2	21.3
5 11	16 5.30	-22 17.1	1.547	2.541	5.2	20.2	5 11	16 5.21	- 7 57.6	2.483	3.464	4.7	21.2
5 21	15 56.77	-20 57.1	1.517	2.529	0.6	19.8	5 21	15 56.77	- 8 3.9	2.482	3.478	3.5	21.1
5 31	15 48.11	-19 32.8	1.515	2.518	4.2	20.1	5 31	15 48.36	- 8 17.5	2.511	3.492	4.9	21.2
6 10	15 40.48	-18 11.2	1.538	2.507	8.8	20.3	6 10	15 40.67	- 8 39.0	2.567	3.505	7.4	21.4
6 20	15 34.75	-16 58.5	1.585	2.497	13.0	20.5	6 20	15 34.25	- 9 8.3	2.649	3.518	9.9	21.6
6 30	15 31.51	-15 59.5	1.653	2.487	16.5	20.8	6 30	15 29.49	- 9 44.9	2.754	3.531	12.1	21.8
<b>263960</b>	2009 <i>JO</i>		5 22.0 1°67	0°1/22.0	17		<b>117242</b>	2004 <i>SF</i> <sub>21</sub>		5 22.0 183°54	10°9/13.9	18	
4 21	16 18.72	-19 20.4	1.696	2.583	12.9	19.5	4 21	16 18.90	+15 48.7	2.500	3.289	12.5	20.1
5 1	16 13.24	-19 43.1	1.630	2.582	9.2	19.2	5 1	16 12.67	+16 59.9	2.456	3.289	11.4	20.0
5 11	16 5.65	-20 3.6	1.587	2.582	5.0	19.0	5 11	16 5.08	+17 51.8	2.434	3.289	10.9	20.0
5 21	15 56.81	-20 21.6	1.570	2.582	0.5	18.6	5 21	15 56.77	+18 20.2	2.436	3.288	11.1	20.0
5 31	15 47.79	-20 37.8	1.579	2.583	4.1	18.9	5 31	15 48.45	+18 22.6	2.460	3.287	11.8	20.1
6 10	15 39.74	-20 53.6	1.615	2.585	8.4	19.2	6 10	15 40.87	+17 59.1	2.506	3.285	13.0	20.1
6 20	15 33.55	-21 11.0	1.673	2.587	12.3	19.4	6 20	15 34.59	+17 12.3	2.571	3.283	14.3	20.2
6 30	15 29.84	-21 31.7	1.753	2.591	15.5	19.6	6 30	15 30.04	+16 5.9	2.653	3.280	15.6	20.4
<b>436939</b>	2012 <i>TS</i> <sub>131</sub>		5 22.0 300°94	1°5/22.8	16		<b>390276</b>	2012 <i>XK</i> <sub>152</sub>		5 22.0 209°49	6°5/18.0	18	
4 21	16 18.72	-26 8.7	1.746	2.623	13.2	20.5	4 21	16 16.76	+ 0 8.0	2.436	3.294	10.6	21.0
5 1	16 13.39	-25 45.6	1.656	2.601	9.7	20.2	5 1	16 11.21	+ 0 51.3	2.373	3.291	8.5	20.8
5 11	16 5.82	-25 10.6	1.590	2.580	5.6	19.9	5 11	16 4.33	+ 1 25.1	2.335	3.288	6.9	20.7
5 21	15 56.83	-24 24.3	1.549	2.559	1.7	19.6	5 21	15 56.70	+ 1 45.8	2.324	3.285	6.6	20.7
5 31	15 47.55	-23 29.7	1.535	2.539	4.2	19.7	5 31	15 49.03	+ 1 51.0	2.339	3.281	7.8	20.8
6 10	15 39.17	-22 32.1	1.547	2.518	8.6	19.9	6 10	15 42.01	+ 1 39.8	2.380	3.277	9.8	20.9
6 20	15 32.68	-21 37.0	1.582	2.498	12.7	20.1	6 20	15 36.22	+ 1 12.8	2.444	3.273	11.9	21.0
6 30	15 28.75	-20 49.7	1.638	2.477	16.4	20.3	6 30	15 32.09	+ 0 31.6	2.529	3.269	13.9	21.2
<b>498774</b>	2008 <i>UR</i> <sub>93</sub>		5 22.0 181°93	1°0/21.6	18		<b>358309</b>	2006 <i>UK</i> <sub>229</sub>		5 22.0 209°46	1°2/21.1	18	
4 21	16 21.85	-16 23.5	2.470	3.338	10.1	21.4	4 21	16 16.91	-17 19.9	3.116	3.985	8.2	22.2
5 1	16 14.87	-16 33.8	2.395	3.339	7.2	21.2	5 1	16 11.15	-16 51.1	3.033	3.977	5.8	22.1
5 11	16 6.33	-16 43.6	2.347	3.339	3.9	21.0	5 11	16 4.25	-16 20.0	2.977	3.969	3.2	21.9
5 21	15 56.87	-16 53.3	2.328	3.339	1.1	20.8	5 21	15 56.70	-15 48.1	2.950	3.959	1.2	21.7
5 31	15 47.31	-17 3.7	2.339	3.338	3.5	21.0	5 31	15 49.08	-15 17.5	2.953	3.950	3.1	21.8
6 10	15 38.44	-17 16.1	2.379	3.337	6.8	21.2	6 10	15 41.98	-14 50.4	2.985	3.939	5.8	22.0
6 20	15 30.95	-17 31.4	2.445	3.335	9.9	21.4	6 20	15 35.89	-14 28.4	3.045	3.928	8.3	22.2
6 30	15 25.32	-17 50.9	2.534	3.333	12.4	21.6	6 30	15 31.22	-14 13.0	3.128	3.917	10.5	22.3
<b>28244</b>	1999 <i>AL</i> <sub>31</sub>		5 22.0 261°49	3°5/20.5	18		<b>43790</b>	Ferdinandbraun		5 22.0 256°32	3°2/23.1	17	
4 21	16 20.01	-12 47.5	1.738	2.624	12.8	18.8	4 21	16 24.58	-27 20.9	1.538	2.410	14.9	19.2
5 1	16 14.09	-12 16.9	1.663	2.613	9.2	18.6	5 1	16 17.92	-27 44.5	1.457	2.398	11.1	18.9
5 11	16 6.10	-11 47.2	1.611	2.602	5.5	18.4	5 11	16 8.44	-27 57.3	1.399	2.385	6.9	18.6
5 21	15 56.86	-11 21.5	1.586	2.590	3.5	18.2	5 21	15 57.12	-27 56.9	1.366	2.372	3.3	18.4
5 31	15 47.40	-11 3.4	1.587	2.579	5.9	18.3	5 31	15 45.36	-27 43.7	1.358	2.359	5.2	18.5
6 10	15 38.85	-10 55.6	1.613	2.567	9.8	18.5	6 10	15 34.71	-27 21.3	1.376	2.346	9.6	18.7
6 20	15 32.06	-10 59.9	1.663	2.555	13.6	18.7	6 20	15 26.40	-26 54.9	1.417	2.332	14.0	18.9
6 30	15 27.68	-11 16.7	1.733	2.543	16.8	18.9	6 30	15 21.25	-26 30.6	1.478	2.318	17.8	19.1
<b>392715</b>	2012 <i>FJ</i> <sub>82</sub>		5 22.0 8°61	4°8/20.6	17		<b>174545</b>	2003 <i>FD</i> <sub>51</sub>		5 22.0 62°90	0°6/21.7	17	
4 21	16 18.67	-10 48.6	1.191	2.095	16.0	20.3	4 21	16 18.04	-19 16.2	2.085	2.965	11.2	20.1
5 1	16 13.62	-10 29.8	1.138	2.096	11.6	20.0	5 1	16 12.34	-19 4.0	2.022	2.972	7.9	20.0
5 11	16 5.98	-10 16.8	1.106	2.098	7.2	19.8	5 11	16 5.01	-18 48.3	1.985	2.978	4.2	19.7
5 21	15 56.84	-10 13.4	1.097	2.101	4.8	19.6	5 21	15 56.77	-18 30.6	1.974	2.985	0.7	19.5
5 31	15 47.62	-10 22.8	1.111	2.105	7.5	19.8	5 31	15 48.52	-18 13.0	1.991	2.993	3.7	19.7
6 10	15 39.74	-10 46.5	1.147	2.110	11.9	20.0	6 10	15 41.13	-17 58.1	2.035	3.000	7.3	20.0
6 20	15 34.23	-11 24.1	1.204	2.115	16.2	20.3	6 20	15 35.27	-17 48.0	2.104	3.007	10.6	20.2
6 30	15 31.74	-12 14.3	1.279	2.122	19.9	20.6	6 30	15 31.44	-17 44.7	2.195	3.014	13.4	20.4
<b>202692</b>	2007 <i>EL</i> <sub>82</sub>		5 22.0 349°91	0°2/21.9	17		<b>220425</b>	2003 <i>SL</i> <sub>304</sub>		5 22.0 279°98	3°6/19.5	18	
4 21	16 18.41	-19 55.2	0.962	1.875	18.0	20.0	4 21	16 14.81	-10 20.3	2.519	3.398	9.6	20.0
5 1	16 14.15	-20 2.4	0.903	1.868	12.9	19.7	5 1	16 9.87	- 9 33.0	2.444	3.389	7.0	19.8
5 11	16 6.59	-20 4.4	0.863	1.861	7.0	19.3	5 11	16 3.64	- 8 47.5	2.395	3.379	4.6	19.6
5 21	15 56.92	-20 1.9	0.844	1.856	0.7	18.9	5 21	15 56.65	- 8 6.7	2.374	3.370	3.6	19.6
5 31	15 46.90	-19 57.5	0.847	1.853	5.9	19.2	5 31	15 49.59	- 7 33.7	2.380	3.361	5.3	19.6
6 10	15 38.45	-19 55.3	0.870	1.850	12.0	19.6	6 10	15 43.13	- 7 10.9	2.414	3.351	7.9	19.8
6 20	15 32.95	-19 59.5	0.913	1.849	17.5	19.9	6 20	15 37.83	- 6 59.5	2.473	3.342	10.5	20.0
6 30	15 31.22	-20 12.9	0.971	1.849	22.0	20.1	6 30	15 34.13	- 6 59.8	2.552	3.333	12.8	20.1
<b>357841</b>	2005 <i>UZ</i> <sub>150</sub>		5 22.0 289°12	0°2/22.2	17		<b>416454</b>	2003 <i>WL</i> <sub>10</sub>					

EPHEMERIDES

5 22.0

5 22.0

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>410318</b>	2007 <i>TY</i> <sub>434</sub>		5 22.0 168°86	0°9/22.5	16		<b>513401</b>	2008 <i>KH</i> <sub>23</sub>		5 22.0 20°27	2°2/20.4	18	
4 21	16 25.09	-23 43.3	2.353	3.211	10.9	23.5	4 21	16 13.17	-8 59.0	4.132	4.998	6.4	20.7
5 1	16 17.22	-23 45.0	2.281	3.218	7.9	23.3	5 1	16 8.32	-9 4.3	4.061	4.999	4.7	20.5
5 11	16 7.62	-23 40.1	2.235	3.224	4.4	23.1	5 11	16 2.68	-9 12.3	4.018	5.000	3.0	20.4
5 21	15 57.03	-23 28.6	2.218	3.229	1.1	22.8	5 21	15 56.61	-9 23.9	4.004	5.002	2.2	20.4
5 31	15 46.40	-23 11.9	2.231	3.233	3.3	23.0	5 31	15 50.49	-9 39.7	4.020	5.003	3.2	20.4
6 10	15 36.63	-22 52.6	2.273	3.235	6.8	23.2	6 10	15 44.74	-10 0.0	4.066	5.005	4.9	20.6
6 20	15 28.48	-22 33.7	2.342	3.237	10.0	23.4	6 20	15 39.70	-10 25.0	4.138	5.007	6.6	20.7
6 30	15 22.45	-22 18.2	2.434	3.238	12.7	23.6	6 30	15 35.63	-10 54.6	4.235	5.008	8.2	20.8
<b>478242</b>	2011 <i>UK</i> <sub>349</sub>		5 22.0 65°85	3°2/19.8	17		<b>397152</b>	2005 <i>XL</i>		5 22.0 261°80	0°8/21.5	16	
4 21	16 16.50	-14 21.0	2.121	3.005	10.9	20.4	4 21	16 16.58	-19 47.1	2.437	3.313	9.9	21.8
5 1	16 11.11	-13 5.7	2.066	3.016	7.7	20.2	5 1	16 11.23	-19 9.0	2.354	3.302	7.0	21.6
5 11	16 4.27	-11 49.3	2.038	3.028	4.6	20.1	5 11	16 4.43	-18 26.0	2.297	3.290	3.8	21.3
5 21	15 56.71	-10 36.3	2.037	3.039	3.2	20.0	5 21	15 56.78	-17 40.1	2.267	3.278	0.9	21.1
5 31	15 49.24	-9 31.2	2.064	3.051	5.3	20.1	5 31	15 49.03	-16 54.4	2.266	3.266	3.5	21.3
6 10	15 42.62	-8 37.9	2.118	3.062	8.4	20.3	6 10	15 41.94	-16 12.1	2.293	3.254	6.9	21.5
6 20	15 37.46	-7 58.6	2.196	3.074	11.3	20.5	6 20	15 36.14	-15 36.1	2.346	3.242	10.0	21.7
6 30	15 34.15	-7 34.2	2.296	3.086	13.8	20.7	6 30	15 32.09	-15 8.8	2.421	3.230	12.7	21.8
<b>166204</b>	2002 <i>EV</i> <sub>124</sub>		5 22.0 290°79	6°0/19.5	18		<b>56218</b>	1999 <i>HP</i> <sub>4</sub>		5 22.0 338°00	3°2/23.0	18	
4 21	16 19.87	-9 23.9	1.376	2.271	14.9	19.7	4 21	16 23.58	-26 53.6	1.658	2.529	14.1	18.3
5 1	16 14.44	-8 29.8	1.303	2.254	11.1	19.4	5 1	16 16.94	-27 33.9	1.588	2.528	10.4	18.1
5 11	16 6.49	-7 39.2	1.251	2.238	7.5	19.2	5 11	16 7.81	-28 5.2	1.541	2.527	6.5	17.8
5 21	15 56.94	-6 58.0	1.224	2.221	6.0	19.0	5 21	15 57.11	-28 25.1	1.520	2.526	3.3	17.6
5 31	15 47.07	-6 31.7	1.220	2.204	8.6	19.1	5 31	15 46.15	-28 33.2	1.525	2.525	4.9	17.7
6 10	15 38.23	-6 24.4	1.240	2.188	12.7	19.3	6 10	15 36.29	-28 31.9	1.556	2.524	8.9	18.0
6 20	15 31.51	-6 37.3	1.281	2.171	16.9	19.5	6 20	15 28.58	-28 25.3	1.611	2.524	12.7	18.2
6 30	15 27.67	-7 9.4	1.339	2.155	20.5	19.7	6 30	15 23.75	-28 18.1	1.686	2.523	16.1	18.4
<b>333552</b>	2005 <i>UO</i> <sub>369</sub>		5 22.0 10°67	3°1/21.2	17		<b>167580</b>	2004 <i>BP</i> <sub>76</sub>		5 22.0 105°57	1°3/21.2	17	
4 21	16 17.53	-13 58.5	1.136	2.045	16.2	19.3	4 21	16 18.07	-18 54.3	2.101	2.981	11.1	20.2
5 1	16 12.91	-13 56.2	1.086	2.048	11.6	19.0	5 1	16 12.31	-18 6.7	2.040	2.989	7.8	20.0
5 11	16 5.65	-13 56.7	1.057	2.052	6.6	18.8	5 11	16 4.98	-17 14.7	2.004	2.997	4.2	19.8
5 21	15 56.86	-14 2.4	1.049	2.058	3.1	18.6	5 21	15 56.83	-16 21.3	1.995	3.006	1.3	19.6
5 31	15 48.00	-14 15.6	1.065	2.066	6.3	18.8	5 31	15 48.72	-15 30.1	2.015	3.014	4.1	19.8
6 10	15 40.54	-14 38.0	1.103	2.074	11.3	19.1	6 10	15 41.51	-14 45.0	2.062	3.022	7.6	20.0
6 20	15 35.53	-15 10.2	1.162	2.084	15.8	19.4	6 20	15 35.83	-14 9.0	2.134	3.029	10.8	20.2
6 30	15 33.60	-15 51.7	1.238	2.096	19.5	19.7	6 30	15 32.13	-13 43.8	2.228	3.037	13.6	20.4
<b>7910</b>	<i>Aleksola</i>		5 22.0 10°52	5°4/19.5	18		<b>233368</b>	2006 <i>DH</i> <sub>152</sub>		5 22.0 134°95	2°8/20.5	17	
4 21	16 16.62	-14 24.0	1.024	1.938	17.0	16.0	4 21	16 18.93	-14 16.3	1.989	2.872	11.6	20.8
5 1	16 12.37	-12 50.3	0.975	1.939	12.2	15.7	5 1	16 12.98	-13 32.7	1.929	2.878	8.2	20.6
5 11	16 5.37	-11 14.0	0.947	1.942	7.5	15.5	5 11	16 5.38	-12 48.6	1.893	2.884	4.8	20.4
5 21	15 56.84	-9 44.3	0.941	1.945	5.4	15.4	5 21	15 56.87	-12 7.2	1.884	2.890	2.8	20.3
5 31	15 48.33	-8 30.8	0.957	1.949	8.8	15.6	5 31	15 48.38	-11 32.0	1.903	2.895	5.1	20.4
6 10	15 41.36	-7 40.8	0.995	1.955	13.6	15.8	6 10	15 40.79	-11 6.1	1.949	2.900	8.5	20.6
6 20	15 36.97	-7 16.9	1.051	1.961	18.1	16.1	6 20	15 34.79	-10 51.4	2.019	2.905	11.8	20.9
6 30	15 35.71	-7 18.3	1.123	1.968	21.9	16.4	6 30	15 30.85	-10 48.7	2.109	2.910	14.5	21.1
<b>122209</b>	2000 <i>MY</i> <sub>2</sub>		5 22.0 251°73	1°0/21.6	18		<b>382259</b>	2012 <i>TR</i> <sub>79</sub>		5 22.0 279°83	1°5/23.5	17	
4 21	16 21.09	-18 34.7	2.002	2.879	11.7	20.1	4 21	16 11.66	-28 41.3	4.369	5.217	6.5	21.4
5 1	16 14.78	-18 20.1	1.914	2.862	8.4	19.9	5 1	16 7.32	-28 37.4	4.284	5.212	4.8	21.3
5 11	16 6.49	-18 1.8	1.851	2.844	4.6	19.6	5 11	16 2.18	-28 28.1	4.226	5.206	3.0	21.1
5 21	15 56.96	-17 41.1	1.815	2.826	1.0	19.3	5 21	15 56.57	-28 13.8	4.196	5.200	1.6	21.0
5 31	15 47.15	-17 20.5	1.807	2.807	4.2	19.5	5 31	15 50.92	-27 55.2	4.196	5.195	2.2	21.0
6 10	15 38.09	-17 2.7	1.826	2.788	8.2	19.7	6 10	15 45.63	-27 33.6	4.225	5.189	3.9	21.2
6 20	15 30.66	-16 50.6	1.870	2.768	12.0	19.9	6 20	15 41.07	-27 10.8	4.282	5.184	5.7	21.3
6 30	15 25.48	-16 46.6	1.935	2.748	15.2	20.1	6 30	15 37.54	-26 48.3	4.363	5.178	7.3	21.4
<b>134737</b>	2000 <i>AO</i> <sub>155</sub>		5 22.0 243°34	1°5/22.7	18		<b>350817</b>	2002 <i>CC</i> <sub>310</sub>		5 22.0 109°43	5°5/18.3	17	
4 21	16 22.68	-25 27.8	1.808	2.678	13.1	20.1	4 21	16 16.68	-2 3.8	2.698	3.559	9.6	22.2
5 1	16 16.14	-25 17.1	1.722	2.665	9.6	19.8	5 1	16 10.95	-1 15.2	2.656	3.579	7.5	22.1
5 11	16 7.31	-24 56.1	1.661	2.650	5.5	19.6	5 11	16 4.12	-0 34.4	2.639	3.598	5.9	22.1
5 21	15 57.05	-24 25.1	1.626	2.636	1.7	19.3	5 21	15 56.75	-0 4.4	2.650	3.617	5.5	22.1
5 31	15 46.51	-23 46.2	1.618	2.621	4.1	19.4	5 31	15 49.47	+0 12.7	2.689	3.636	6.6	22.2
6 10	15 36.93	-23 3.9	1.637	2.605	8.5	19.6	6 10	15 42.86	+0 15.9	2.754	3.654	8.5	22.3
6 20	15 29.28	-22 22.9	1.680	2.589	12.5	19.8	6 20	15 37.41	+0 5.6	2.842	3.672	10.4	22.5
6 30	15 24.25	-21 48.2	1.744	2.572	16.0	20.0	6 30	15 33.46	-0 17.1	2.952	3.689	12.2	22.6
<b>88085</b>	2000 <i>WY</i> <sub>34</sub>		5 22.0 174°04	3°8/19.8	18		<b>139042</b>	2001 <i>EK</i> <sub>6</sub>		5 22.0 357°48	6°7/19.6	17	
4 21	16 16.67	-8 30.9	2.530	3.404	9.7	19.6	4 21	16 19.49	-6 51.4	1.331	2.225	15.3	19.3
5 1	16 11.14	-8 2.6	2.464	3.405	7.2	19.4	5 1	16 14.03	-6 8.4	1.274	2.223	11.6	19.1
5 11	16 4.31	-7 38.2	2.424	3.406	4.8	19.3	5 11	16 6.18	-5 34.2	1.240	2.222	8.1	18.9
5 21	15 56.76	-7 20.0	2.412	3.406	3.8	19.2	5 21	15 56.96	-5 13.8	1.228	2.222	6.8	18.8
5 31	15 49.17	-7 10.1	2.428	3.407	5.3	19.3	5 31	15 47.64	-5 11.7	1.241	2.221	8.9	18.9
6 10	15 42.23	-7 10.1	2.472	3.407	7.8	19.5	6 10	15 39.53	-5 29.5	1.277	2.222	12.6	19.1
6 20	15 36.49	-7 20.4	2.540	3.408	10.3	19.6	6 20	15 33.60	-6 6.2	1.333	2.222	16.4	19.3
6 30	15 32.36	-7 40.7	2.630	3.408	12.6	19.8	6 30	15 30.45	-6 59.5	1.406	2.224	19.7	19.6
<b>423044</b>	2003 <i>UE</i> <sub>164</sub>		5 22.0 236°80	0°2/22.1	17		<b>110767</b>	2001 <i>UB</i> <sub>25</sub>		5 22.0 108°40	1°7/23.0	17	

EPHEMERIDES

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>3615</b>	Safronov		5 22.0 354°86	1.2°/21.5	18		<b>94933</b>	2001 YT <sub>73</sub>		5 22.0 187°61	1.9°/21.3	18	
4 21	16 16.56	-18 11.5	1.872	2.759	11.9	15.7	4 21	16 23.55	-16 24.3	1.578	2.463	13.9	19.5
5 1	16 11.53	-17 53.0	1.804	2.756	8.4	15.5	5 1	16 16.76	-16 10.5	1.512	2.463	9.9	19.3
5 11	16 4.70	-17 31.4	1.759	2.754	4.6	15.2	5 11	16 7.64	-15 55.1	1.469	2.462	5.5	19.0
5 21	15 56.83	-17 8.8	1.741	2.752	1.2	15.0	5 21	15 57.16	-15 40.0	1.451	2.461	1.9	18.8
5 31	15 48.86	-16 47.7	1.750	2.751	4.2	15.2	5 31	15 46.54	-15 27.9	1.461	2.460	5.2	19.0
6 10	15 41.77	-16 31.0	1.785	2.750	8.1	15.4	6 10	15 37.04	-15 21.7	1.496	2.458	9.7	19.3
6 20	15 36.30	-16 21.3	1.844	2.750	11.7	15.6	6 20	15 29.64	-15 23.7	1.554	2.456	13.8	19.5
6 30	15 33.00	-16 20.1	1.923	2.751	14.8	15.8	6 30	15 24.96	-15 35.4	1.632	2.453	17.2	19.7
<b>93371</b>	2000 SP <sub>269</sub>		5 22.0 224°20	1.3°/21.4	18		<b>43730</b>	1979 MK <sub>4</sub>		5 22.0 319°70	3.9°/20.7	18	
4 21	16 20.45	-17 28.6	2.046	2.924	11.5	20.2	4 21	16 19.14	-14 2.5	1.197	2.101	15.9	18.8
5 1	16 14.21	-17 13.2	1.969	2.917	8.2	20.0	5 1	16 14.24	-13 28.3	1.128	2.088	11.5	18.5
5 11	16 6.13	-16 55.2	1.916	2.909	4.4	19.7	5 11	16 6.55	-12 53.9	1.080	2.074	6.8	18.2
5 21	15 56.97	-16 36.3	1.891	2.901	1.3	19.5	5 21	15 57.07	-12 23.6	1.055	2.062	3.9	17.9
5 31	15 47.64	-16 18.7	1.893	2.893	4.2	19.7	5 31	15 47.24	-12 2.5	1.053	2.050	7.2	18.1
6 10	15 39.13	-16 5.1	1.923	2.884	8.0	19.9	6 10	15 38.62	-11 54.8	1.073	2.038	12.2	18.3
6 20	15 32.19	-15 57.8	1.978	2.875	11.5	20.1	6 20	15 32.41	-12 2.9	1.114	2.028	17.0	18.6
6 30	15 27.41	-15 58.5	2.054	2.865	14.5	20.3	6 30	15 29.39	-12 27.2	1.171	2.018	21.1	18.8
<b>304257</b>	2006 RP <sub>66</sub>		5 22.0 142°54	3.3°/23.7	17		<b>169706</b>	2002 LP <sub>38</sub>		5 22.0 326°05	0.1°/22.1	17	
4 21	16 20.67	-30 25.1	2.311	3.162	11.4	21.4	4 21	16 17.64	-22 29.8	1.552	2.442	13.8	19.7
5 1	16 14.29	-30 44.0	2.240	3.166	8.6	21.2	5 1	16 12.74	-22 2.8	1.476	2.429	9.9	19.4
5 11	16 6.15	-30 52.4	2.193	3.169	5.6	21.1	5 11	16 5.55	-21 26.8	1.422	2.417	5.4	19.1
5 21	15 56.97	-30 49.6	2.172	3.173	3.4	20.9	5 21	15 56.96	-20 43.6	1.394	2.406	0.6	18.7
5 31	15 47.69	-30 36.1	2.180	3.176	4.2	21.0	5 31	15 48.15	-19 57.1	1.390	2.394	4.4	19.0
6 10	15 39.25	-30 14.5	2.216	3.179	6.9	21.2	6 10	15 40.37	-19 12.5	1.412	2.384	9.2	19.2
6 20	15 32.40	-29 48.6	2.277	3.182	9.8	21.3	6 20	15 34.59	-18 34.5	1.457	2.374	13.5	19.5
6 30	15 27.69	-29 22.2	2.360	3.184	12.5	21.5	6 30	15 31.46	-18 7.1	1.521	2.365	17.2	19.7
<b>188314</b>	2003 FA <sub>62</sub>		5 22.0 120°57	4.1°/24.3	18		<b>481231</b>	2005 WN <sub>55</sub>		5 22.0 255°82	0.5°/21.8	16	
4 21	16 22.56	-34 6.0	2.628	3.457	10.8	21.3	4 21	16 19.09	-18 39.9	2.870	3.736	8.9	22.6
5 1	16 15.46	-34 35.7	2.564	3.473	8.4	21.1	5 1	16 12.96	-18 40.6	2.770	3.713	6.3	22.3
5 11	16 6.70	-34 53.7	2.525	3.487	5.9	21.0	5 11	16 5.40	-18 39.2	2.698	3.690	3.4	22.1
5 21	15 57.02	-34 58.8	2.514	3.502	4.2	20.9	5 21	15 56.95	-18 36.1	2.654	3.666	0.5	21.8
5 31	15 47.29	-34 51.2	2.531	3.516	4.6	20.9	5 31	15 48.27	-18 32.6	2.641	3.641	3.0	22.0
6 10	15 38.41	-34 33.2	2.576	3.529	6.6	21.1	6 10	15 40.05	-18 30.0	2.656	3.616	6.1	22.2
6 20	15 31.06	-34 8.3	2.647	3.542	9.0	21.3	6 20	15 32.93	-18 29.9	2.699	3.591	9.0	22.3
6 30	15 25.75	-33 40.6	2.742	3.555	11.2	21.4	6 30	15 27.38	-18 33.9	2.765	3.564	11.5	22.5
<b>281575</b>	2008 UV <sub>110</sub>		5 22.0 269°93	1.1°/22.6	18		<b>478293</b>	2011 WO <sub>18</sub>		5 22.1 212°99	2.2°/23.2	18	
4 21	16 19.54	-25 2.5	1.865	2.739	12.6	20.7	4 21	16 20.03	-27 41.5	2.676	3.529	9.9	22.2
5 1	16 13.75	-24 40.8	1.788	2.733	9.1	20.5	5 1	16 13.70	-27 55.2	2.592	3.523	7.3	22.0
5 11	16 5.95	-24 9.3	1.735	2.726	5.1	20.2	5 11	16 5.81	-28 1.4	2.534	3.516	4.5	21.8
5 21	15 56.95	-23 29.1	1.708	2.719	1.3	19.9	5 21	15 56.99	-27 59.6	2.504	3.510	2.3	21.7
5 31	15 47.83	-22 43.0	1.708	2.712	3.8	20.1	5 31	15 48.01	-27 50.2	2.503	3.502	3.4	21.7
6 10	15 39.66	-21 55.6	1.735	2.705	8.0	20.3	6 10	15 39.68	-27 35.4	2.531	3.495	6.2	21.9
6 20	15 33.29	-21 11.6	1.786	2.698	11.8	20.5	6 20	15 32.66	-27 17.8	2.585	3.487	9.0	22.1
6 30	15 29.29	-20 34.9	1.859	2.690	15.0	20.7	6 30	15 27.47	-27 0.4	2.663	3.479	11.4	22.2
<b>13838</b>	1999 XW <sub>26</sub>		5 22.0 261°24	0.6°/21.7	18		<b>231739</b>	1999 RA <sub>106</sub>		5 22.1 266°26	4.0°/24.0	18	
4 21	16 17.23	-19 23.8	2.534	3.408	9.7	19.5	4 21	16 21.70	-32 9.4	1.973	2.824	13.0	20.5
5 1	16 11.71	-19 7.7	2.446	3.393	6.9	19.3	5 1	16 15.45	-32 12.7	1.883	2.808	10.0	20.3
5 11	16 4.72	-18 48.1	2.384	3.378	3.7	19.1	5 11	16 6.98	-32 1.8	1.816	2.791	6.7	20.0
5 21	15 56.84	-18 26.3	2.350	3.362	0.6	18.8	5 21	15 57.11	-31 35.4	1.775	2.775	4.2	19.8
5 31	15 48.80	-18 4.0	2.345	3.346	3.3	19.0	5 31	15 46.96	-30 54.6	1.762	2.758	4.9	19.9
6 10	15 41.36	-17 43.8	2.368	3.330	6.6	19.2	6 10	15 37.72	-30 3.3	1.775	2.740	8.1	20.0
6 20	15 35.15	-17 27.7	2.417	3.314	9.7	19.4	6 20	15 30.36	-29 7.2	1.813	2.723	11.7	20.2
6 30	15 30.66	-17 17.8	2.488	3.298	12.3	19.5	6 30	15 25.55	-28 12.3	1.872	2.705	14.9	20.4
<b>317806</b>	2003 ST <sub>219</sub>		5 22.0 233°51	1.9°/22.7	17		<b>393813</b>	2005 QN <sub>181</sub>		5 22.1 254°92	0.3°/22.2	18	
4 21	16 24.22	-24 41.4	1.643	2.516	14.0	20.5	4 21	16 18.27	-22 11.2	2.486	3.355	10.0	21.6
5 1	16 17.43	-25 0.6	1.566	2.509	10.2	20.2	5 1	16 12.51	-22 3.7	2.397	3.341	7.2	21.3
5 11	16 8.10	-25 11.6	1.513	2.502	6.0	20.0	5 11	16 5.20	-21 51.1	2.335	3.326	3.9	21.1
5 21	15 57.19	-25 13.4	1.485	2.495	2.1	19.7	5 21	15 56.93	-21 33.9	2.300	3.311	0.6	20.8
5 31	15 45.96	-25 6.5	1.484	2.487	4.5	19.8	5 31	15 48.49	-21 13.9	2.294	3.296	3.1	21.0
6 10	15 35.79	-24 54.1	1.509	2.479	9.0	20.1	6 10	15 40.68	-20 53.3	2.316	3.281	6.5	21.2
6 20	15 27.77	-24 40.2	1.558	2.470	13.1	20.3	6 20	15 34.16	-20 34.7	2.364	3.265	9.7	21.4
6 30	15 22.63	-24 29.4	1.628	2.461	16.7	20.5	6 30	15 29.47	-20 20.7	2.434	3.249	12.4	21.5
<b>211572</b>	2003 SF <sub>157</sub>		5 22.0 291°15	2.1°/22.7	18		<b>155730</b>	2000 RQ <sub>64</sub>		5 22.1 163°17	3.3°/19.9	18	
4 21	16 22.66	-25 2.1	1.422	2.305	15.2	20.1	4 21	16 19.45	-13 8.7	2.150	3.028	11.0	20.2
5 1	16 16.84	-25 14.3	1.332	2.280	11.3	19.8	5 1	16 13.26	-12 6.8	2.086	3.033	7.9	20.0
5 11	16 8.05	-25 16.9	1.265	2.256	6.6	19.5	5 11	16 5.53	-11 4.5	2.049	3.037	4.8	19.8
5 21	15 57.20	-25 8.5	1.221	2.231	2.3	19.1	5 21	15 56.97	-10 5.7	2.040	3.041	3.4	19.7
5 31	15 45.71	-24 49.9	1.202	2.206	5.1	19.2	5 31	15 48.43	-9 14.5	2.059	3.045	5.4	19.8
6 10	15 35.19	-24 25.0	1.208	2.181	10.3	19.5	6 10	15 40.74	-8 34.2	2.106	3.048	8.5	20.0
6 20	15 27.01	-23 59.2	1.236	2.156	15.2	19.7	6 20	15 34.55	-8 7.0	2.177	3.051	11.6	20.2
6 30	15 22.12	-23 38.4	1.283	2.132	19.5	19.9	6 30	15 30.29	-7 53.5	2.269	3.053	14.1	20.4
<b>333920</b>	1999 TT <sub>158</sub>		5 22.0 215°26	5.4°/24.7	18		<b>221057</b>	2005 QV <sub>135</sub>		5 22.1 115°92	3.8°/20.2	17	
4 21	16												

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>494448</b>	2016 <i>UO</i> <sub>142</sub>		5 22.1 239°14	2°7/23.8	18		<b>250916</b>	2005 <i>WT</i> <sub>8</sub>		5 22.1 348°00	0°1/22.1	16	
4 21	16 18.74	-30 42.2	2.592	3.440	10.4	21.8	4 21	16 16.56	-21 23.4	1.806	2.692	12.4	20.4
5 1	16 12.83	-30 34.4	2.505	3.430	7.8	21.6	5 1	16 11.69	-21 13.9	1.734	2.686	8.8	20.1
5 11	16 5.36	-30 16.0	2.443	3.420	5.0	21.4	5 11	16 4.89	-20 58.7	1.686	2.680	4.8	19.9
5 21	15 56.96	-29 46.9	2.408	3.410	2.9	21.3	5 21	15 56.95	-20 39.1	1.663	2.675	0.5	19.5
5 31	15 48.45	-29 8.5	2.402	3.400	3.6	21.3	5 31	15 48.85	-20 17.4	1.667	2.671	3.9	19.8
6 10	15 40.65	-28 24.0	2.424	3.389	6.3	21.5	6 10	15 41.65	-19 56.8	1.696	2.667	8.0	20.0
6 20	15 34.22	-27 37.0	2.472	3.378	9.2	21.6	6 20	15 36.16	-19 40.5	1.750	2.664	11.8	20.3
6 30	15 29.68	-26 51.6	2.544	3.367	11.7	21.8	6 30	15 32.95	-19 31.0	1.824	2.661	15.0	20.5
<b>338836</b>	2003 <i>WE</i> <sub>143</sub>		5 22.1 204°33	0°2/22.1	18		<b>229229</b>	2004 <i>XT</i> <sub>32</sub>		5 22.1 57°77	1°7/21.5	17	
4 21	16 19.34	-22 18.5	2.210	3.082	11.0	21.2	4 21	16 21.09	-16 12.4	1.645	2.531	13.3	19.8
5 1	16 13.32	-21 57.7	2.134	3.079	7.8	20.9	5 1	16 14.76	-16 10.4	1.596	2.548	9.4	19.6
5 11	16 5.63	-21 30.5	2.084	3.076	4.3	20.7	5 11	16 6.45	-16 7.9	1.572	2.566	5.1	19.4
5 21	15 56.99	-20 58.3	2.060	3.072	0.5	20.4	5 21	15 57.09	-16 6.1	1.573	2.584	1.7	19.2
5 31	15 48.26	-20 23.6	2.066	3.069	3.4	20.6	5 31	15 47.80	-16 7.0	1.601	2.602	4.6	19.4
6 10	15 40.33	-19 49.5	2.099	3.064	7.1	20.9	6 10	15 39.69	-16 12.6	1.655	2.620	8.7	19.7
6 20	15 33.91	-19 19.3	2.157	3.060	10.4	21.1	6 20	15 33.53	-16 24.3	1.733	2.638	12.4	19.9
6 30	15 29.51	-18 55.8	2.238	3.055	13.3	21.2	6 30	15 29.82	-16 43.0	1.831	2.656	15.5	20.2
<b>16140</b>	1999 <i>XD</i> <sub>125</sub>		5 22.1 96°77	2°8/23.2	18		<b>313084</b>	2000 <i>TH</i> <sub>35</sub>		5 22.1 240°01	2°4/23.1	17	
4 21	16 22.81	-27 32.6	1.941	2.804	12.7	17.9	4 21	16 20.50	-27 1.8	2.325	3.185	11.0	20.3
5 1	16 16.00	-27 58.1	1.879	2.815	9.4	17.7	5 1	16 14.23	-27 26.4	2.247	3.181	8.1	20.1
5 11	16 7.15	-28 14.1	1.842	2.825	5.8	17.5	5 11	16 6.20	-27 43.4	2.193	3.176	5.0	19.9
5 21	15 57.14	-28 19.3	1.830	2.836	2.9	17.4	5 21	15 57.08	-27 52.0	2.166	3.172	2.5	19.8
5 31	15 47.06	-28 14.5	1.847	2.846	4.3	17.5	5 31	15 47.77	-27 52.5	2.169	3.168	3.7	19.8
6 10	15 38.03	-28 2.4	1.890	2.857	7.7	17.7	6 10	15 39.20	-27 46.6	2.198	3.164	6.8	20.0
6 20	15 30.89	-27 46.8	1.958	2.867	11.0	17.9	6 20	15 32.13	-27 37.3	2.254	3.159	9.9	20.2
6 30	15 26.19	-27 31.7	2.048	2.877	13.9	18.1	6 30	15 27.13	-27 27.9	2.332	3.155	12.6	20.4
<b>158068</b>	2000 <i>UV</i> <sub>11</sub>		5 22.1 284°22	1°0/22.7	18		<b>207461</b>	2006 <i>GG</i> <sub>36</sub>		5 22.1 354°80	0°2/22.0	17	
4 21	16 17.72	-25 31.4	2.207	3.076	11.1	19.6	4 21	16 20.43	-17 24.8	1.314	2.211	15.3	18.8
5 1	16 12.19	-25 2.4	2.131	3.073	8.0	19.4	5 1	16 15.07	-18 13.4	1.248	2.205	10.9	18.5
5 11	16 5.02	-24 24.4	2.080	3.070	4.5	19.2	5 11	16 7.00	-19 3.7	1.205	2.200	5.9	18.2
5 21	15 56.93	-23 38.7	2.057	3.068	1.2	19.0	5 21	15 57.17	-19 54.0	1.185	2.197	0.6	17.8
5 31	15 48.79	-22 48.1	2.061	3.065	3.3	19.1	5 31	15 47.00	-20 43.1	1.190	2.194	4.9	18.1
6 10	15 41.48	-21 56.7	2.094	3.062	6.9	19.3	6 10	15 37.97	-21 31.0	1.219	2.193	10.0	18.4
6 20	15 35.67	-21 8.4	2.151	3.059	10.2	19.5	6 20	15 31.29	-22 18.2	1.270	2.193	14.6	18.6
6 30	15 31.87	-20 26.9	2.231	3.057	13.1	19.7	6 30	15 27.72	-23 6.2	1.340	2.194	18.5	18.9
<b>426873</b>	2013 <i>WH</i> <sub>28</sub>		5 22.1 90°80	0°4/22.3	17		<b>100586</b>	1997 <i>LP</i> <sub>15</sub>		5 22.1 318°76	2°7/21.1	18	
4 21	16 19.80	-24 28.2	1.839	2.715	12.7	20.6	4 21	16 18.67	-15 42.1	1.321	2.221	15.0	19.3
5 1	16 13.78	-23 41.4	1.777	2.723	9.0	20.4	5 1	16 13.80	-15 17.9	1.246	2.204	10.8	19.0
5 11	16 5.89	-22 44.6	1.739	2.731	4.9	20.2	5 11	16 6.31	-14 52.0	1.192	2.187	6.1	18.7
5 21	15 57.02	-21 40.4	1.727	2.739	0.7	19.9	5 21	15 57.11	-14 27.6	1.162	2.171	2.7	18.4
5 31	15 48.21	-20 33.2	1.744	2.747	3.8	20.2	5 31	15 47.53	-14 8.6	1.156	2.155	6.2	18.6
6 10	15 40.50	-19 28.4	1.787	2.755	7.9	20.4	6 10	15 39.01	-13 59.1	1.173	2.140	11.2	18.8
6 20	15 34.62	-18 30.9	1.855	2.763	11.6	20.7	6 20	15 32.70	-14 1.9	1.211	2.126	15.9	19.0
6 30	15 31.04	-17 44.3	1.945	2.771	14.7	20.9	6 30	15 29.41	-14 18.3	1.267	2.112	19.9	19.2
<b>360993</b>	2005 <i>UF</i> <sub>392</sub>		5 22.1 175°28	1°0/21.4	16		<b>162126</b>	1998 <i>SX</i> <sub>83</sub>		5 22.1 242°76	2°6/23.3	18	
4 21	16 17.05	-17 44.9	2.731	3.604	9.1	22.6	4 21	16 21.17	-28 1.2	2.105	2.965	11.9	20.3
5 1	16 11.41	-17 27.3	2.659	3.605	6.4	22.4	5 1	16 14.88	-28 11.9	2.023	2.957	8.9	20.1
5 11	16 4.51	-17 7.6	2.614	3.606	3.5	22.2	5 11	16 6.61	-28 12.9	1.965	2.948	5.5	19.9
5 21	15 56.89	-16 47.2	2.597	3.607	1.0	22.0	5 21	15 57.13	-28 3.5	1.933	2.939	2.7	19.7
5 31	15 49.24	-16 27.8	2.609	3.608	3.2	22.2	5 31	15 47.43	-27 44.6	1.929	2.929	4.0	19.7
6 10	15 42.20	-16 11.6	2.649	3.608	6.2	22.4	6 10	15 38.56	-27 19.2	1.953	2.920	7.4	19.9
6 20	15 36.33	-16 0.2	2.716	3.608	8.9	22.6	6 20	15 31.37	-26 51.0	2.002	2.910	10.8	20.1
6 30	15 32.04	-15 54.9	2.806	3.608	11.3	22.7	6 30	15 26.48	-26 24.4	2.073	2.900	13.8	20.3
<b>466355</b>	2013 <i>RY</i> <sub>58</sub>		5 22.1 327°75	2°1/21.1	17		<b>266687</b>	2009 <i>OL</i> <sub>21</sub>		5 22.1 286°37	0°5/22.2	18	
4 21	16 16.06	-18 58.7	1.159	2.067	16.0	20.6	4 21	16 21.02	-22 44.2	1.578	2.461	14.0	20.7
5 1	16 12.22	-18 10.7	1.084	2.046	11.5	20.2	5 1	16 15.30	-22 28.7	1.490	2.440	10.1	20.5
5 11	16 5.55	-17 13.9	1.029	2.026	6.3	19.9	5 11	16 7.07	-22 4.2	1.425	2.418	5.6	20.1
5 21	15 57.02	-16 12.6	0.996	2.007	2.1	19.5	5 21	15 57.19	-21 31.7	1.384	2.396	0.8	19.7
5 31	15 48.08	-15 13.2	0.986	1.989	6.3	19.7	5 31	15 46.88	-20 54.0	1.370	2.374	4.5	20.0
6 10	15 40.32	-14 23.4	0.999	1.971	11.9	20.0	6 10	15 37.52	-20 15.7	1.382	2.352	9.5	20.2
6 20	15 34.97	-13 48.8	1.031	1.956	17.1	20.2	6 20	15 30.20	-19 42.0	1.416	2.330	14.0	20.4
6 30	15 32.88	-13 32.8	1.080	1.941	21.5	20.5	6 30	15 25.72	-19 17.2	1.470	2.308	18.0	20.6
<b>230060</b>	2000 <i>SO</i> <sub>265</sub>		5 22.1 147°32	3°2/20.2	17		<b>49360</b>	1998 <i>WM</i> <sub>15</sub>		5 22.1 172°97	2°0/21.3	18	
4 21	16 19.87	-11 53.7	2.327	3.200	10.4	21.2	4 21	16 22.22	-15 19.8	1.809	2.690	12.6	19.2
5 1	16 13.45	-11 15.4	2.268	3.211	7.5	21.1	5 1	16 15.59	-15 10.6	1.742	2.691	9.0	19.0
5 11	16 5.60	-10 38.5	2.235	3.222	4.6	20.9	5 11	16 6.96	-15 1.1	1.700	2.693	5.0	18.7
5 21	15 57.00	-10 5.9	2.230	3.231	3.2	20.8	5 21	15 57.16	-14 53.0	1.685	2.694	2.0	18.5
5 31	15 48.44	-9 40.1	2.254	3.240	5.0	20.9	5 31	15 47.27	-14 48.4	1.697	2.695	4.8	18.7
6 10	15 40.68	-9 23.4	2.306	3.249	7.9	21.1	6 10	15 38.35	-14 49.4	1.736	2.695	8.8	18.9
6 20	15 34.31	-9 17.0	2.382	3.256	10.7	21.3	6 20	15 31.25	-14 57.8	1.798	2.695	12.5	19.2
6 30	15 29.78	-9 21.2	2.481	3.263	13.1	21.5	6 30	15 26.54	-15 14.4	1.882	2.695	15.6	19.4
<b>392096</b>	2009 <i>DT</i> <sub>122</sub>		5 22.1 91°48	4°6/19.4	17		<b>19609</b>	1999 <					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>187338</b>	2005 <i>UY</i> <sub>116</sub>		5 22.1 205°05	0°5/22.4	18		<b>173335</b>	1999 <i>WB</i> <sub>14</sub>		5 22.1 100°08	0°3/21.9	18	
4 21	16 17.62	-23 8.0	2.891	3.754	9.0	21.6	4 21	16 23.15	-20 19.9	1.574	2.457	14.0	20.5
5 1	16 11.84	-22 58.2	2.809	3.750	6.4	21.4	5 1	16 16.40	-20 11.5	1.519	2.469	9.9	20.3
5 11	16 4.77	-22 43.4	2.754	3.745	3.5	21.2	5 11	16 7.43	-19 57.9	1.487	2.481	5.3	20.1
5 21	15 56.96	-22 24.0	2.728	3.739	0.7	21.0	5 21	15 57.24	-19 40.2	1.481	2.493	0.6	19.7
5 31	15 49.07	-22 1.7	2.731	3.734	2.7	21.1	5 31	15 47.09	-19 21.0	1.501	2.504	4.4	20.1
6 10	15 41.76	-21 38.6	2.763	3.727	5.7	21.3	6 10	15 38.19	-19 4.0	1.548	2.516	8.9	20.4
6 20	15 35.59	-21 16.8	2.822	3.721	8.4	21.5	6 20	15 31.42	-18 52.3	1.618	2.527	12.9	20.6
6 30	15 30.99	-20 58.8	2.904	3.714	10.7	21.6	6 30	15 27.35	-18 48.4	1.708	2.538	16.2	20.9
<b>355096</b>	2006 <i>TE</i> <sub>46</sub>		5 22.1 115°82	3°0/19.7	18		<b>391076</b>	2005 <i>UZ</i> <sub>139</sub>		5 22.1 0°76	1°3/22.7	16	
4 21	16 17.13	-13 42.6	2.433	3.311	9.9	21.4	4 21	16 19.44	-23 56.9	2.204	3.073	11.1	21.3
5 1	16 11.47	-12 28.3	2.376	3.322	7.1	21.2	5 1	16 13.50	-24 14.5	2.131	3.073	8.0	21.1
5 11	16 4.53	-11 13.2	2.345	3.333	4.3	21.0	5 11	16 5.81	-24 26.4	2.083	3.073	4.6	20.9
5 21	15 56.94	-10 1.3	2.342	3.343	3.1	21.0	5 21	15 57.10	-24 32.2	2.063	3.073	1.5	20.7
5 31	15 49.42	-8 56.8	2.369	3.353	4.9	21.1	5 31	15 48.25	-24 32.5	2.070	3.073	3.4	20.9
6 10	15 42.66	-8 2.9	2.424	3.363	7.7	21.3	6 10	15 40.17	-24 29.4	2.105	3.073	6.9	21.1
6 20	15 37.20	-7 21.7	2.504	3.373	10.4	21.5	6 20	15 33.62	-24 25.2	2.166	3.073	10.2	21.3
6 30	15 33.41	-6 54.2	2.605	3.383	12.7	21.7	6 30	15 29.14	-24 22.9	2.248	3.074	13.0	21.5
<b>413021</b>	2000 <i>SY</i> <sub>162</sub>		5 22.1 224°60	1°6/21.1	14	C	<b>92900</b>	2000 <i>RZ</i> <sub>4</sub>		5 22.1 116°60	4°5/23.9	18	
4 21	16 23.31	-17 22.7	2.378	3.245	10.5	24.5	4 21	16 23.91	-31 31.8	1.810	2.665	13.8	18.6
5 1	16 16.11	-16 42.7	2.286	3.229	7.5	24.3	5 1	16 17.10	-32 6.3	1.742	2.668	10.6	18.4
5 11	16 7.18	-15 58.7	2.220	3.212	4.1	24.0	5 11	16 7.92	-32 27.7	1.698	2.672	7.2	18.2
5 21	15 57.22	-15 12.8	2.184	3.193	1.6	23.8	5 21	15 57.31	-32 33.7	1.679	2.676	4.7	18.1
5 31	15 47.05	-14 28.0	2.177	3.173	4.1	24.0	5 31	15 46.54	-32 24.3	1.686	2.680	5.5	18.1
6 10	15 37.58	-13 48.0	2.200	3.152	7.7	24.2	6 10	15 36.89	-32 2.8	1.720	2.683	8.6	18.3
6 20	15 29.54	-13 15.6	2.249	3.130	11.0	24.3	6 20	15 29.34	-31 34.3	1.778	2.687	11.9	18.5
6 30	15 23.46	-12 53.0	2.321	3.106	13.8	24.5	6 30	15 24.56	-31 4.3	1.857	2.690	15.0	18.7
<b>389989</b>	2012 <i>TZ</i> <sub>289</sub>		5 22.1 196°26	0°1/22.1	18		<b>439411</b>	2013 <i>CD</i> <sub>43</sub>		5 22.1 351°82	4°4/19.8	17	
4 21	16 19.76	-21 5.2	2.541	3.408	9.9	21.7	4 21	16 16.90	-7 28.5	2.260	3.136	10.6	20.9
5 1	16 13.48	-20 59.0	2.462	3.405	7.0	21.5	5 1	16 11.50	-7 2.2	2.195	3.136	7.9	20.7
5 11	16 5.71	-20 48.5	2.410	3.402	3.8	21.3	5 11	16 4.65	-6 41.1	2.155	3.135	5.4	20.6
5 21	15 57.07	-20 34.5	2.386	3.398	0.4	21.0	5 21	15 56.99	-6 27.9	2.143	3.135	4.4	20.5
5 31	15 48.32	-20 18.4	2.392	3.394	3.1	21.3	5 31	15 49.27	-6 24.7	2.157	3.135	5.9	20.6
6 10	15 40.26	-20 2.5	2.426	3.389	6.4	21.5	6 10	15 42.26	-6 33.0	2.198	3.134	8.6	20.8
6 20	15 33.51	-19 49.0	2.486	3.384	9.4	21.6	6 20	15 36.57	-6 52.8	2.263	3.134	11.3	21.0
6 30	15 28.56	-19 40.1	2.570	3.378	12.0	21.8	6 30	15 32.65	-7 23.5	2.350	3.134	13.7	21.1
<b>59685</b>	1999 <i>JR</i> <sub>108</sub>		5 22.1 136°20	2°2/21.0	18		<b>297559</b>	2001 <i>QS</i> <sub>334</sub>		5 22.1 258°67	3°4/20.6	18	
4 21	16 21.86	-14 29.8	2.209	3.082	10.9	19.5	4 21	16 19.52	-9 58.3	2.293	3.167	10.6	20.7
5 1	16 14.92	-14 11.2	2.152	3.097	7.8	19.3	5 1	16 13.46	-9 51.3	2.211	3.154	7.7	20.5
5 11	16 6.44	-13 52.6	2.121	3.111	4.4	19.1	5 11	16 5.78	-9 48.1	2.154	3.140	4.9	20.3
5 21	15 57.13	-13 35.9	2.117	3.125	2.2	19.0	5 21	15 57.11	-9 50.6	2.125	3.126	3.4	20.1
5 31	15 47.87	-13 23.2	2.143	3.137	4.4	19.1	5 31	15 48.24	-10 0.3	2.124	3.112	5.1	20.2
6 10	15 39.50	-13 16.5	2.196	3.150	7.6	19.3	6 10	15 40.01	-10 18.4	2.151	3.097	8.2	20.4
6 20	15 32.66	-13 17.1	2.275	3.161	10.7	19.6	6 20	15 33.11	-10 45.3	2.202	3.082	11.2	20.6
6 30	15 27.81	-13 25.8	2.376	3.172	13.3	19.8	6 30	15 28.08	-11 20.7	2.276	3.067	13.9	20.7
<b>183166</b>	2002 <i>SF</i> <sub>31</sub>		5 22.1 224°52	0°1/22.1	17		<b>315306</b>	2007 <i>TN</i> <sub>112</sub>		5 22.1 171°98	0°9/22.5	17	
4 21	16 22.98	-21 17.9	2.031	2.901	11.9	21.5	4 21	16 23.00	-24 42.7	1.637	2.513	14.0	21.1
5 1	16 16.15	-21 12.1	1.946	2.890	8.5	21.2	5 1	16 16.38	-24 14.6	1.570	2.515	10.1	20.8
5 11	16 7.32	-21 0.8	1.887	2.879	4.7	21.0	5 11	16 7.47	-23 35.5	1.526	2.517	5.6	20.6
5 21	15 57.23	-20 44.6	1.855	2.867	0.5	20.6	5 21	15 57.28	-22 47.1	1.507	2.518	1.2	20.3
5 31	15 46.91	-20 25.2	1.851	2.854	3.8	20.9	5 31	15 47.04	-21 53.1	1.516	2.519	4.2	20.5
6 10	15 37.41	-20 5.7	1.875	2.840	7.9	21.1	6 10	15 38.00	-20 59.1	1.551	2.520	8.8	20.8
6 20	15 29.59	-19 49.1	1.925	2.826	11.6	21.3	6 20	15 31.08	-20 10.4	1.609	2.520	12.9	21.0
6 30	15 24.08	-19 38.4	1.996	2.810	14.8	21.5	6 30	15 26.87	-19 31.4	1.689	2.520	16.3	21.2
<b>336350</b>	2008 <i>TA</i> <sub>128</sub>		5 22.1 164°52	3°0/23.6	17		<b>224572</b>	2005 <i>XO</i> <sub>6</sub>		5 22.1 154°60	0°5/21.9	17	
4 21	16 21.61	-29 35.2	2.001	2.859	12.6	21.4	4 21	16 20.90	-20 16.2	1.850	2.730	12.4	21.2
5 1	16 15.18	-29 39.5	1.930	2.861	9.4	21.2	5 1	16 14.65	-19 58.4	1.784	2.733	8.8	20.9
5 11	16 6.76	-29 32.2	1.882	2.863	5.9	21.0	5 11	16 6.46	-19 35.5	1.742	2.736	4.7	20.7
5 21	15 57.17	-29 12.5	1.861	2.864	3.2	20.9	5 21	15 57.18	-19 9.0	1.726	2.738	0.6	20.4
5 31	15 47.50	-28 42.1	1.867	2.866	4.3	20.9	5 31	15 47.83	-18 41.6	1.738	2.741	4.0	20.7
6 10	15 38.82	-28 4.6	1.900	2.867	7.6	21.1	6 10	15 39.48	-18 16.8	1.777	2.743	8.1	20.9
6 20	15 31.96	-27 24.8	1.958	2.868	11.0	21.3	6 20	15 32.91	-17 57.7	1.840	2.745	11.8	21.1
6 30	15 27.49	-26 47.2	2.038	2.869	13.9	21.5	6 30	15 28.68	-17 46.7	1.924	2.747	14.9	21.3
<b>154470</b>	2003 <i>DP</i> <sub>19</sub>		5 22.1 24°74	0°4/22.2	17		<b>368827</b>	2006 <i>CD</i> <sub>11</sub>		5 22.1 153°67	4°5/20.3	16	
4 21	16 19.96	-22 22.9	1.448	2.338	14.6	20.0	4 21	16 23.49	-11 9.5	1.567	2.451	14.0	21.8
5 1	16 14.38	-22 9.2	1.389	2.342	10.4	19.7	5 1	16 16.60	-10 28.2	1.510	2.458	10.2	21.6
5 11	16 6.44	-21 47.4	1.352	2.346	5.7	19.5	5 11	16 7.54	-9 49.8	1.476	2.464	6.3	21.4
5 21	15 57.14	-21 19.0	1.339	2.351	0.7	19.1	5 21	15 57.28	-9 18.4	1.468	2.469	4.5	21.3
5 31	15 47.80	-20 47.4	1.352	2.356	4.5	19.4	5 31	15 47.02	-8 57.7	1.486	2.474	6.8	21.4
6 10	15 39.70	-20 17.0	1.389	2.361	9.2	19.7	6 10	15 37.94	-8 50.7	1.530	2.478	10.7	21.7
6 20	15 33.81	-19 52.2	1.449	2.367	13.5	20.0	6 20	15 30.91	-8 58.2	1.596	2.482	14.4	21.9
6 30	15 30.70	-19 36.3	1.529	2.374	17.1	20.2	6 30	15 26.50	-9 19.8	1.682	2.485	17.5	22.1
<b>355227</b>	2007 <i>BZ</i> <sub>58</sub>		5 22.1 187°26	5°4/19.0	18		<b>309386</b>	2007 <i>TC</i> <sub>150</sub>					

EPHEMERIDES

5 22.1

5 22.1

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>303899</b>	2005 <i>TJ</i> <sub>121</sub>		5 22.1 165°77	2°0/23.1	18		<b>419635</b>	2010 <i>TG</i> <sub>9</sub>		5 22.1 299°75	1°1/21.6	17	
4 21	16 19.59	-26 43.1	2.515	3.373	10.3	21.1	4 21	16 20.44	-19 44.4	1.380	2.274	14.9	21.3
5 1	16 13.45	-26 57.4	2.441	3.375	7.5	20.9	5 1	16 14.98	-19 15.4	1.308	2.263	10.7	21.0
5 11	16 5.73	-27 4.4	2.392	3.377	4.6	20.7	5 11	16 6.93	-18 39.5	1.257	2.253	5.8	20.7
5 21	15 57.11	-27 3.9	2.371	3.378	2.1	20.6	5 21	15 57.27	-17 59.3	1.231	2.242	1.1	20.4
5 31	15 48.37	-26 56.4	2.379	3.379	3.3	20.7	5 31	15 47.34	-17 19.2	1.229	2.232	5.2	20.6
6 10	15 40.36	-26 44.0	2.415	3.381	6.3	20.8	6 10	15 38.56	-16 44.3	1.252	2.222	10.3	20.9
6 20	15 33.73	-26 29.6	2.477	3.382	9.2	21.0	6 20	15 32.04	-16 19.1	1.297	2.212	15.0	21.1
6 30	15 28.98	-26 15.9	2.562	3.382	11.7	21.2	6 30	15 28.49	-16 6.8	1.360	2.202	18.9	21.3
<b>207920</b>	2008 <i>WC</i> <sub>2</sub>		5 22.1 247°25	1°4/21.3	18		<b>61057</b>	2000 <i>KD</i> <sub>76</sub>		5 22.1 247°42	8°3/17.2	18	R
4 21	16 19.82	-17 34.4	2.177	3.053	10.9	21.2	4 21	16 18.98	-0 30.1	1.852	2.720	12.9	19.4
5 1	16 13.79	-17 9.6	2.090	3.038	7.8	21.0	5 1	16 13.28	+0 46.7	1.786	2.710	10.5	19.2
5 11	16 6.00	-16 41.7	2.029	3.022	4.3	20.7	5 11	16 5.75	+1 53.5	1.743	2.698	8.7	19.1
5 21	15 57.14	-16 12.5	1.995	3.006	1.4	20.5	5 21	15 57.15	+2 44.1	1.726	2.687	8.4	19.0
5 31	15 48.07	-15 44.6	1.990	2.989	4.1	20.6	5 31	15 48.40	+3 13.6	1.734	2.675	10.0	19.1
6 10	15 39.71	-15 20.9	2.012	2.971	7.8	20.8	6 10	15 40.48	+3 19.8	1.766	2.663	12.6	19.2
6 20	15 32.80	-15 4.1	2.059	2.953	11.2	21.0	6 20	15 34.17	+3 3.1	1.819	2.651	15.3	19.4
6 30	15 27.92	-14 56.1	2.128	2.935	14.2	21.2	6 30	15 30.00	+2 25.9	1.889	2.639	17.7	19.5
<b>151766</b>	2003 <i>EL</i> <sub>19</sub>		5 22.1 54°05	2°9/23.4	17		<b>287855</b>	2003 <i>SA</i> <sub>252</sub>		5 22.1 195°15	1°6/22.9	18	
4 21	16 21.64	-28 32.5	1.575	2.448	14.6	20.1	4 21	16 21.64	-25 41.1	2.672	3.527	9.9	21.3
5 1	16 15.53	-28 30.5	1.514	2.454	10.8	19.8	5 1	16 14.84	-25 52.8	2.591	3.524	7.2	21.1
5 11	16 7.06	-28 15.2	1.474	2.460	6.6	19.6	5 11	16 6.50	-25 58.0	2.535	3.521	4.2	20.9
5 21	15 57.25	-27 46.3	1.460	2.467	3.2	19.4	5 21	15 57.22	-25 56.3	2.508	3.516	1.7	20.7
5 31	15 47.40	-27 6.4	1.471	2.473	4.7	19.5	5 31	15 47.80	-25 48.5	2.511	3.512	3.1	20.8
6 10	15 38.83	-26 20.6	1.508	2.480	8.7	19.8	6 10	15 39.05	-25 36.4	2.543	3.506	6.1	21.0
6 20	15 32.48	-25 34.8	1.568	2.487	12.6	20.0	6 20	15 31.62	-25 22.6	2.601	3.500	9.0	21.2
6 30	15 28.92	-24 54.3	1.649	2.494	16.0	20.2	6 30	15 26.03	-25 9.9	2.683	3.494	11.5	21.4
<b>304577</b>	2006 <i>VX</i> <sub>38</sub>		5 22.1 146°74	0°7/22.5	17		<b>384643</b>	2011 <i>EU</i> <sub>62</sub>		5 22.1 259°74	10°1/15.8	18	
4 21	16 19.09	-23 11.8	2.518	3.384	10.0	21.5	4 21	16 19.63	+6 5.8	1.977	2.821	13.2	21.1
5 1	16 13.01	-23 12.1	2.449	3.390	7.2	21.3	5 1	16 13.72	+7 20.2	1.906	2.802	11.4	20.9
5 11	16 5.46	-23 6.9	2.405	3.395	4.0	21.1	5 11	16 6.01	+8 19.8	1.858	2.782	10.3	20.8
5 21	15 57.09	-22 56.7	2.390	3.401	0.9	20.9	5 21	15 57.18	+8 58.7	1.834	2.762	10.3	20.8
5 31	15 48.67	-22 43.0	2.403	3.406	3.0	21.1	5 31	15 48.13	+9 12.1	1.834	2.741	11.6	20.8
6 10	15 40.98	-22 27.8	2.445	3.410	6.2	21.3	6 10	15 39.82	+8 58.7	1.858	2.720	13.7	20.9
6 20	15 34.63	-22 13.5	2.512	3.415	9.1	21.5	6 20	15 33.02	+8 19.8	1.901	2.698	16.0	21.0
6 30	15 30.09	-22 2.5	2.603	3.419	11.7	21.7	6 30	15 28.31	+7 18.8	1.962	2.676	18.2	21.1
<b>212222</b>	1995 <i>BT</i>		5 22.1 208°33	7°6/27.7	18		<b>51545</b>	2001 <i>FM</i> <sub>158</sub>		5 22.1 315°44	1°7/21.5	18	
4 21	16 23.92	-48 17.7	2.800	3.555	12.1	18.8	4 21	16 18.96	-18 6.0	1.280	2.181	15.4	18.4
5 1	16 16.79	-48 43.9	2.718	3.552	10.5	18.7	5 1	16 14.19	-17 44.5	1.202	2.160	11.1	18.1
5 11	16 7.64	-48 51.5	2.658	3.548	8.9	18.6	5 11	16 6.65	-17 18.1	1.144	2.141	6.1	17.7
5 21	15 57.31	-48 38.0	2.621	3.544	7.8	18.5	5 21	15 57.26	-16 49.6	1.110	2.121	1.7	17.4
5 31	15 46.86	-48 2.9	2.611	3.540	7.6	18.5	5 31	15 47.41	-16 22.9	1.100	2.102	5.7	17.6
6 10	15 37.40	-47 9.1	2.626	3.536	8.5	18.5	6 10	15 38.63	-16 2.8	1.113	2.084	11.1	17.8
6 20	15 29.77	-46 1.3	2.665	3.531	10.0	18.6	6 20	15 32.16	-15 53.2	1.147	2.067	16.1	18.0
6 30	15 24.53	-44 45.6	2.728	3.526	11.6	18.7	6 30	15 28.84	-15 56.8	1.198	2.050	20.4	18.3
<b>432376</b>	2009 <i>WM</i> <sub>136</sub>		5 22.1 164°25	0°9/22.5	17		<b>77891</b>	2001 <i>SM</i> <sub>232</sub>		5 22.1 184°55	1°5/23.7	18	
4 21	16 22.39	-23 25.5	2.160	3.026	11.4	22.3	4 21	16 12.07	-29 22.8	5.153	5.993	5.7	20.7
5 1	16 15.54	-23 27.8	2.090	3.031	8.2	22.1	5 1	16 7.59	-29 29.3	5.071	5.993	4.2	20.6
5 11	16 6.90	-23 23.6	2.045	3.035	4.6	21.9	5 11	16 2.41	-29 31.1	5.016	5.992	2.7	20.5
5 21	15 57.23	-23 13.3	2.028	3.039	1.1	21.6	5 21	15 56.82	-29 28.4	4.991	5.992	1.6	20.4
5 31	15 47.49	-22 58.2	2.040	3.042	3.5	21.8	5 31	15 51.18	-29 21.6	4.995	5.991	2.0	20.4
6 10	15 38.64	-22 40.9	2.079	3.045	7.1	22.0	6 10	15 45.86	-29 11.7	5.029	5.990	3.4	20.5
6 20	15 31.42	-22 24.6	2.145	3.048	10.5	22.2	6 20	15 41.15	-28 59.7	5.091	5.989	4.9	20.6
6 30	15 26.37	-22 12.1	2.232	3.049	13.3	22.4	6 30	15 37.33	-28 47.2	5.178	5.988	6.3	20.7
<b>406397</b>	2007 <i>TZ</i> <sub>62</sub>		5 22.1 96°17	0°9/22.4	17		<b>394277</b>	2006 <i>UY</i> <sub>217</sub>		5 22.1 206°88	2°0/20.5	18	
4 21	16 23.99	-23 26.6	1.491	2.371	14.8	21.3	4 21	16 16.93	-15 8.3	2.960	3.831	8.5	21.6
5 1	16 17.12	-23 18.0	1.437	2.385	10.6	21.0	5 1	16 11.29	-14 21.9	2.880	3.825	6.1	21.4
5 11	16 7.86	-23 0.4	1.407	2.399	5.8	20.8	5 11	16 4.49	-13 33.9	2.828	3.818	3.5	21.2
5 21	15 57.33	-22 34.8	1.401	2.412	1.1	20.5	5 21	15 57.03	-12 46.6	2.805	3.810	2.0	21.1
5 31	15 46.87	-22 4.2	1.422	2.426	4.4	20.8	5 31	15 49.52	-12 2.7	2.811	3.802	3.8	21.2
6 10	15 37.79	-21 33.3	1.468	2.439	9.0	21.1	6 10	15 42.57	-11 24.7	2.847	3.794	6.4	21.4
6 20	15 31.02	-21 6.4	1.538	2.452	13.2	21.3	6 20	15 36.67	-10 54.6	2.909	3.785	8.9	21.5
6 30	15 27.11	-20 47.4	1.628	2.464	16.6	21.6	6 30	15 32.21	-10 33.6	2.994	3.775	11.1	21.7
<b>367112</b>	2006 <i>ST</i> <sub>24</sub>		5 22.1 272°15	1°0/22.5	17		<b>346097</b>	2007 <i>VY</i> <sub>45</sub>		5 22.1 229°52	2°5/23.4	17	
4 21	16 21.75	-24 26.1	1.604	2.483	14.0	21.9	4 21	16 20.62	-28 15.9	2.195	3.054	11.6	21.2
5 1	16 15.79	-24 4.9	1.519	2.466	10.2	21.6	5 1	16 14.44	-28 24.2	2.116	3.049	8.6	21.0
5 11	16 7.34	-23 32.6	1.456	2.448	5.8	21.3	5 11	16 6.39	-28 22.9	2.061	3.044	5.3	20.8
5 21	15 57.30	-22 50.2	1.419	2.430	1.2	21.0	5 21	15 57.23	-28 11.5	2.033	3.038	2.7	20.6
5 31	15 46.92	-22 0.8	1.408	2.412	4.4	21.1	5 31	15 47.90	-27 50.9	2.032	3.032	3.9	20.7
6 10	15 37.55	-21 9.7	1.423	2.394	9.3	21.4	6 10	15 39.39	-27 24.2	2.060	3.026	7.1	20.9
6 20	15 30.26	-20 22.7	1.461	2.375	13.7	21.6	6 20	15 32.49	-26 55.0	2.112	3.020	10.4	21.1
6 30	15 25.79	-19 44.8	1.519	2.356	17.5	21.8	6 30	15 27.78	-26 27.4	2.187	3.014	13.2	21.3
<b>306325</b>	2011 <i>SN</i> <sub>102</sub>		5 22.1 254°31	7°7/25.9	18		<b>292312</b>	2006 <i>SL</i> <sub>158</sub>					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>350781</b>	2002 CW <sub>34</sub>		5 22.1 53°04'	4.4°/20.3	17		<b>357858</b>	2005 UG <sub>258</sub>		5 22.1 165°11'	0.6°/22.4	17	
4 21	16 18.65	- 7 57.4	1.986	2.865	11.7	20.2	4 21	16 18.97	-22 31.2	2.678	3.542	9.5	21.4
5 1	16 12.78	- 7 41.3	1.940	2.883	8.6	20.0	5 1	16 12.91	-22 39.1	2.605	3.545	6.8	21.2
5 11	16 5.35	- 7 31.4	1.919	2.901	5.7	19.9	5 11	16 5.45	-22 42.5	2.558	3.548	3.8	21.0
5 21	15 57.13	- 7 29.8	1.924	2.920	4.4	19.8	5 21	15 57.17	-22 41.7	2.539	3.550	0.8	20.8
5 31	15 48.99	- 7 38.4	1.956	2.938	6.0	20.0	5 31	15 48.82	-22 37.5	2.550	3.552	2.9	21.0
6 10	15 41.77	- 7 57.9	2.014	2.957	8.9	20.2	6 10	15 41.11	-22 31.8	2.589	3.554	5.9	21.2
6 20	15 36.09	- 8 27.7	2.096	2.976	11.7	20.4	6 20	15 34.65	-22 26.5	2.655	3.556	8.8	21.4
6 30	15 32.40	- 9 7.0	2.200	2.995	14.2	20.6	6 30	15 29.90	-22 23.5	2.744	3.557	11.2	21.5
<b>65508</b>	4179 P-L		5 22.1 311°36'	1.7°/23.0	18		<b>318777</b>	2005 SS <sub>92</sub>		5 22.1 358°12'	1.2°/21.6	17	
4 21	16 17.91	-26 19.5	2.045	2.916	11.8	19.4	4 21	16 18.96	-19 39.2	1.416	2.311	14.5	20.2
5 1	16 12.63	-26 12.7	1.962	2.903	8.6	19.2	5 1	16 13.76	-19 5.1	1.353	2.309	10.3	19.9
5 11	16 5.46	-25 56.6	1.902	2.890	5.1	18.9	5 11	16 6.20	-18 24.6	1.312	2.308	5.6	19.7
5 21	15 57.16	-25 31.6	1.869	2.878	1.9	18.7	5 21	15 57.26	-17 40.9	1.296	2.307	1.2	19.4
5 31	15 48.66	-24 59.4	1.863	2.866	3.7	18.8	5 31	15 48.24	-16 58.3	1.305	2.307	5.0	19.6
6 10	15 40.95	-24 23.6	1.884	2.854	7.4	19.0	6 10	15 40.40	-16 22.1	1.338	2.308	9.8	19.9
6 20	15 34.86	-23 48.1	1.930	2.843	10.9	19.2	6 20	15 34.72	-15 56.1	1.394	2.309	14.2	20.1
6 30	15 30.96	-23 16.9	1.997	2.831	14.0	19.4	6 30	15 31.80	-15 42.9	1.468	2.310	17.8	20.4
<b>113598</b>	2002 TL <sub>51</sub>		5 22.1 265°18'	1.8°/22.8	18		<b>441739</b>	2009 BP <sub>103</sub>		5 22.1 23°43'	0.1°/22.0	17	
4 21	16 22.01	-24 41.7	2.128	2.994	11.6	19.4	4 21	16 17.87	-21 21.3	1.646	2.534	13.2	20.8
5 1	16 15.56	-25 10.0	2.042	2.981	8.5	19.2	5 1	16 12.68	-21 3.0	1.589	2.541	9.4	20.6
5 11	16 7.10	-25 32.5	1.980	2.968	5.0	19.0	5 11	16 5.49	-20 38.3	1.554	2.549	5.1	20.3
5 21	15 57.34	-25 47.9	1.946	2.955	2.0	18.7	5 21	15 57.19	-20 9.3	1.545	2.557	0.5	20.0
5 31	15 47.25	-25 56.3	1.940	2.941	3.8	18.8	5 31	15 48.88	-19 38.9	1.562	2.566	4.1	20.3
6 10	15 37.90	-25 59.2	1.961	2.928	7.4	19.0	6 10	15 41.66	-19 11.1	1.605	2.575	8.4	20.6
6 20	15 30.14	-25 59.2	2.008	2.914	10.9	19.2	6 20	15 36.32	-18 49.3	1.670	2.585	12.2	20.8
6 30	15 24.64	-25 59.7	2.077	2.900	14.0	19.4	6 30	15 33.40	-18 36.0	1.757	2.596	15.4	21.0
<b>505626</b>	2014 HE <sub>83</sub>		5 22.1 76°96'	1.9°/22.9	17		<b>308626</b>	2005 XV <sub>27</sub>		5 22.1 238°90'	5.0°/24.9	17	
4 21	16 22.65	-25 9.1	2.232	3.094	11.3	21.3	4 21	16 22.99	-35 19.2	1.821	2.665	14.2	20.1
5 1	16 15.66	-25 42.6	2.178	3.114	8.2	21.1	5 1	16 16.50	-35 11.7	1.742	2.659	11.1	19.9
5 11	16 6.95	-26 9.5	2.148	3.134	4.8	21.0	5 11	16 7.65	-34 45.6	1.686	2.654	7.8	19.7
5 21	15 57.31	-26 28.6	2.146	3.154	2.1	20.8	5 21	15 57.41	-33 59.7	1.654	2.648	5.3	19.5
5 31	15 47.65	-26 40.2	2.173	3.174	3.6	20.9	5 31	15 47.06	-32 55.8	1.649	2.642	5.7	19.5
6 10	15 38.92	-26 46.0	2.229	3.194	6.8	21.2	6 10	15 37.88	-31 39.7	1.670	2.636	8.6	19.7
6 20	15 31.81	-26 48.5	2.310	3.214	9.8	21.4	6 20	15 30.85	-30 18.8	1.716	2.629	12.1	19.9
6 30	15 26.84	-26 50.7	2.413	3.233	12.4	21.6	6 30	15 26.59	-29 0.4	1.784	2.623	15.3	20.1
<b>414456</b>	2009 HR <sub>17</sub>		5 22.1 70°85'	2.6°/22.9	17		<b>413087</b>	2001 TA <sub>174</sub>		5 22.1 140°19'	1.3°/22.9	17	
4 21	16 24.66	-25 29.5	1.417	2.297	15.5	21.0	4 21	16 22.75	-26 2.4	2.322	3.180	11.1	21.9
5 1	16 17.97	-25 58.6	1.357	2.302	11.3	20.8	5 1	16 15.63	-25 46.8	2.259	3.194	8.0	21.8
5 11	16 8.54	-26 18.0	1.318	2.307	6.7	20.5	5 11	16 6.90	-25 22.5	2.221	3.208	4.6	21.6
5 21	15 57.48	-26 26.1	1.304	2.312	2.8	20.3	5 21	15 57.33	-24 50.4	2.212	3.221	1.5	21.4
5 31	15 46.26	-26 23.4	1.315	2.318	5.0	20.4	5 31	15 47.81	-24 12.6	2.231	3.234	3.3	21.5
6 10	15 36.39	-26 13.3	1.351	2.323	9.5	20.7	6 10	15 39.23	-23 32.7	2.280	3.245	6.6	21.7
6 20	15 29.00	-26 0.7	1.410	2.328	13.8	21.0	6 20	15 32.25	-22 54.2	2.355	3.256	9.7	22.0
6 30	15 24.76	-25 50.4	1.489	2.334	17.4	21.2	6 30	15 27.33	-22 20.6	2.452	3.266	12.4	22.2
<b>222635</b>	2001 XN <sub>118</sub>		5 22.1 158°27'	1.6°/21.4	18		<b>343885</b>	2011 HQ <sub>85</sub>		5 22.1 322°56'	10.6°/13.6	17	
4 21	16 21.89	-15 54.2	2.144	3.018	11.2	20.3	4 21	16 16.30	+ 0 3.7	1.556	2.436	14.3	20.4
5 1	16 15.13	-15 47.0	2.078	3.024	7.9	20.2	5 1	16 11.64	+ 2 37.3	1.499	2.424	12.0	20.2
5 11	16 6.69	-15 39.1	2.038	3.030	4.4	19.9	5 11	16 4.99	+ 5 1.1	1.466	2.413	10.7	20.1
5 21	15 57.29	-15 31.7	2.025	3.035	1.6	19.8	5 21	15 57.16	+ 7 4.5	1.457	2.402	11.1	20.1
5 31	15 47.84	-15 26.6	2.042	3.040	4.1	19.9	5 31	15 49.22	+ 8 38.2	1.472	2.391	13.1	20.2
6 10	15 39.25	-15 25.7	2.086	3.044	7.6	20.2	6 10	15 42.22	+ 9 37.6	1.509	2.381	15.8	20.3
6 20	15 32.22	-15 30.5	2.155	3.048	10.9	20.4	6 20	15 36.99	+10 2.6	1.564	2.371	18.4	20.5
6 30	15 27.24	-15 42.2	2.247	3.051	13.6	20.6	6 30	15 34.11	+ 9 56.4	1.634	2.362	20.8	20.7
<b>506916</b>	2008 DS <sub>86</sub>		5 22.1 127°00'	0.8°/21.6	17		<b>314149</b>	2005 ET <sub>247</sub>		5 22.1 169°47'	0.8°/22.5	17	
4 21	16 18.17	-18 37.9	2.511	3.384	9.8	22.7	4 21	16 24.42	-23 20.8	1.871	2.741	12.8	21.2
5 1	16 12.31	-18 22.0	2.448	3.394	6.9	22.5	5 1	16 17.22	-23 15.7	1.802	2.745	9.2	21.0
5 11	16 5.08	-18 3.4	2.411	3.403	3.7	22.3	5 11	16 7.94	-23 2.9	1.758	2.749	5.1	20.7
5 21	15 57.13	-17 43.5	2.401	3.413	0.8	22.1	5 21	15 57.46	-22 43.1	1.740	2.752	1.1	20.5
5 31	15 49.17	-17 24.1	2.421	3.421	3.3	22.3	5 31	15 46.90	-22 18.1	1.751	2.754	3.9	20.7
6 10	15 41.94	-17 7.5	2.469	3.430	6.4	22.5	6 10	15 37.39	-21 51.6	1.789	2.756	8.0	20.9
6 20	15 36.00	-16 55.6	2.543	3.438	9.3	22.7	6 20	15 29.79	-21 27.4	1.852	2.756	11.7	21.2
6 30	15 31.78	-16 49.8	2.639	3.446	11.8	22.9	6 30	15 24.69	-21 9.0	1.936	2.757	14.9	21.4
<b>381872</b>	2010 AJ <sub>21</sub>		5 22.1 165°62'	3.9°/24.6	17		<b>501241</b>	2013 VA <sub>11</sub>		5 22.1 178°62'	1.5°/21.4	17	
4 21	16 22.51	-33 48.8	2.003	2.847	13.1	21.0	4 21	16 22.40	-15 19.6	2.375	3.244	10.4	22.2
5 1	16 15.84	-33 27.3	1.930	2.850	10.0	20.9	5 1	16 15.42	-15 20.7	2.303	3.246	7.4	22.0
5 11	16 7.14	-32 49.2	1.880	2.852	6.8	20.7	5 11	16 6.85	-15 21.8	2.256	3.247	4.1	21.8
5 21	15 57.34	-31 54.5	1.856	2.854	4.2	20.5	5 21	15 57.36	-15 23.6	2.239	3.248	1.5	21.6
5 31	15 47.55	-30 46.0	1.860	2.856	4.7	20.5	5 31	15 47.77	-15 27.5	2.251	3.248	3.8	21.8
6 10	15 38.89	-29 29.1	1.891	2.857	7.7	20.7	6 10	15 38.92	-15 34.8	2.291	3.248	7.2	22.0
6 20	15 32.16	-28 10.5	1.948	2.858	11.0	20.9	6 20	15 31.48	-15 46.7	2.358	3.246	10.2	22.2
6 30	15 27.89	-26 56.2	2.027	2.859	13.9	21.1	6 30	15 25.96	-16 4.2	2.447	3.245	12.9	22.4
<b>196527</b>	2003 OZ <sub>17</sub>		5 22.1 337°15'	2.3°/22.7	17		<b>25158</b>	Berman		5 22.1 282°48'	0.1°/22.1	18	
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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>513121</b>	2017 <i>WR</i> <sub>27</sub>		5 22.1 235°51	1°9/21.0	18		<b>239303</b>	2007 <i>PB</i> <sub>43</sub>		5 22.1 207°31	4°6/19.3	18	R
4 21	16 20.59	-15 51.1	2.347	3.220	10.4	22.4	4 21	16 18.23	-7 41.5	2.289	3.163	10.6	20.7
5 1	16 14.27	-15 20.9	2.258	3.203	7.4	22.1	5 1	16 12.51	-6 52.5	2.220	3.159	7.9	20.5
5 11	16 6.30	-14 48.7	2.195	3.186	4.2	21.9	5 11	16 5.31	-6 7.6	2.177	3.155	5.5	20.3
5 21	15 57.32	-14 16.4	2.160	3.168	1.9	21.7	5 21	15 57.27	-5 30.2	2.160	3.150	4.7	20.3
5 31	15 48.15	-13 46.8	2.154	3.150	4.2	21.8	5 31	15 49.16	-5 3.4	2.172	3.144	6.3	20.4
6 10	15 39.62	-13 22.7	2.177	3.131	7.6	22.0	6 10	15 41.75	-4 49.5	2.210	3.139	8.9	20.5
6 20	15 32.45	-13 6.3	2.225	3.111	10.9	22.2	6 20	15 35.66	-4 49.2	2.272	3.133	11.6	20.7
6 30	15 27.17	-12 59.3	2.295	3.090	13.7	22.3	6 30	15 31.37	-5 2.3	2.355	3.126	14.0	20.8
<b>518791</b>	2010 <i>BD</i> <sub>56</sub>		5 22.1 196°36	4°7/19.6	17		<b>421730</b>	2014 <i>PS</i> <sub>37</sub>		5 22.1 232°45	3°1/20.8	14	C
4 21	16 20.05	-8 22.3	2.096	2.971	11.4	22.4	4 21	16 23.49	-14 12.3	1.645	2.528	13.5	22.2
5 1	16 13.87	-7 37.1	2.028	2.969	8.5	22.2	5 1	16 16.87	-13 40.5	1.567	2.516	9.8	21.9
5 11	16 6.05	-6 55.8	1.986	2.966	5.7	22.0	5 11	16 7.93	-13 7.9	1.513	2.505	5.7	21.6
5 21	15 57.29	-6 22.0	1.970	2.962	4.7	21.9	5 21	15 57.56	-12 37.7	1.485	2.492	3.1	21.5
5 31	15 48.46	-5 59.1	1.982	2.959	6.4	22.0	5 31	15 46.91	-12 13.5	1.484	2.479	5.9	21.6
6 10	15 40.42	-5 49.3	2.021	2.954	9.4	22.2	6 10	15 37.23	-11 58.8	1.509	2.465	10.2	21.8
6 20	15 33.87	-5 53.2	2.083	2.949	12.3	22.4	6 20	15 29.51	-11 56.0	1.557	2.451	14.2	22.0
6 30	15 29.30	-6 10.7	2.166	2.944	14.9	22.6	6 30	15 24.43	-12 6.2	1.625	2.436	17.7	22.2
<b>414173</b>	2008 <i>AU</i> <sub>128</sub>		5 22.1 98°80	0°8/22.4	16		<b>431120</b>	2006 <i>HB</i> <sub>83</sub>		5 22.1 143°21	2°7/22.9	17	
4 21	16 23.87	-23 10.0	1.579	2.458	14.2	22.3	4 21	16 25.24	-26 12.0	2.053	2.912	12.3	21.2
5 1	16 16.98	-23 4.0	1.525	2.472	10.2	22.0	5 1	16 17.88	-27 1.0	1.983	2.916	9.0	21.0
5 11	16 7.84	-22 49.8	1.494	2.487	5.6	21.8	5 11	16 8.39	-27 43.1	1.937	2.920	5.6	20.8
5 21	15 57.47	-22 28.3	1.489	2.500	1.1	21.5	5 21	15 57.60	-28 15.9	1.919	2.924	2.8	20.6
5 31	15 47.16	-22 2.0	1.510	2.514	4.2	21.8	5 31	15 46.58	-28 38.6	1.929	2.928	4.2	20.7
6 10	15 38.16	-21 35.2	1.558	2.528	8.7	22.1	6 10	15 36.46	-28 52.6	1.968	2.931	7.6	21.0
6 20	15 31.34	-21 11.9	1.629	2.541	12.7	22.3	6 20	15 28.14	-29 0.6	2.031	2.934	11.0	21.2
6 30	15 27.26	-20 55.7	1.720	2.554	16.0	22.6	6 30	15 22.26	-29 6.2	2.117	2.937	13.8	21.4
<b>521214</b>	2015 <i>GC</i>		5 22.1 106°71	13°9/18.8	16		<b>292372</b>	2006 <i>SE</i> <sub>253</sub>		5 22.1 191°01	3°7/19.8	18	
4 21	16 26.42	+20 5.2	1.908	2.677	16.4	20.9	4 21	16 17.21	-10 36.5	2.345	3.223	10.2	21.1
5 1	16 18.28	+20 31.0	1.870	2.688	15.1	20.8	5 1	16 11.75	-9 49.3	2.278	3.222	7.5	21.0
5 11	16 8.34	+20 27.6	1.852	2.699	14.1	20.8	5 11	16 4.88	-9 4.0	2.237	3.221	4.8	20.8
5 21	15 57.52	+19 51.0	1.855	2.710	13.9	20.8	5 21	15 57.23	-8 23.8	2.223	3.220	3.7	20.7
5 31	15 46.90	+18 40.5	1.881	2.720	14.5	20.9	5 31	15 49.54	-7 51.8	2.237	3.219	5.4	20.8
6 10	15 37.48	+16 59.3	1.929	2.730	15.6	21.0	6 10	15 42.54	-7 30.5	2.278	3.217	8.2	21.0
6 20	15 29.98	+14 53.8	1.997	2.740	17.0	21.1	6 20	15 36.84	-7 20.9	2.344	3.215	10.9	21.2
6 30	15 24.84	+12 31.2	2.083	2.749	18.5	21.2	6 30	15 32.87	-7 23.5	2.431	3.213	13.3	21.3
<b>270359</b>	2001 <i>YU</i> <sub>62</sub>		5 22.1 172°95	1°6/23.0	17		<b>466677</b>	2014 <i>WG</i> <sub>217</sub>		5 22.1 156°09	1°9/21.2	17	
4 21	16 22.50	-26 35.5	2.341	3.197	11.0	21.6	4 21	16 21.48	-17 54.5	1.701	2.585	13.1	21.2
5 1	16 15.59	-26 28.1	2.267	3.201	8.0	21.4	5 1	16 15.19	-17 8.8	1.638	2.589	9.3	21.0
5 11	16 6.98	-26 11.9	2.218	3.204	4.7	21.2	5 11	16 6.88	-16 18.7	1.598	2.592	5.1	20.7
5 21	15 57.41	-25 47.2	2.198	3.207	1.8	21.0	5 21	15 57.44	-15 27.5	1.586	2.595	1.9	20.5
5 31	15 47.79	-25 15.7	2.207	3.208	3.4	21.1	5 31	15 47.99	-14 39.6	1.600	2.598	4.9	20.7
6 10	15 39.02	-24 40.6	2.244	3.209	6.7	21.3	6 10	15 39.62	-13 59.6	1.640	2.601	9.1	21.0
6 20	15 31.82	-24 5.6	2.307	3.210	9.8	21.5	6 20	15 33.15	-13 30.6	1.704	2.603	12.9	21.2
6 30	15 26.68	-23 34.2	2.393	3.209	12.6	21.7	6 30	15 29.13	-13 14.6	1.789	2.605	16.1	21.4
<b>169499</b>	2002 <i>CP</i> <sub>216</sub>		5 22.1 48°53	4°8/23.9	18		<b>399221</b>	2014 <i>GF</i> <sub>42</sub>		5 22.1 117°96	5°0/24.4	16	
4 21	16 24.28	-31 8.9	1.352	2.223	16.6	19.7	4 21	16 23.28	-34 56.2	2.364	3.195	11.8	21.0
5 1	16 17.93	-31 31.7	1.291	2.227	12.6	19.4	5 1	16 16.41	-35 43.5	2.292	3.199	9.3	20.8
5 11	16 8.64	-31 37.8	1.251	2.231	8.4	19.2	5 11	16 7.57	-36 18.5	2.245	3.203	6.8	20.7
5 21	15 57.59	-31 24.7	1.234	2.235	5.1	19.0	5 21	15 57.52	-36 38.7	2.224	3.207	5.1	20.6
5 31	15 46.40	-30 53.7	1.242	2.240	6.1	19.1	5 31	15 47.27	-36 43.6	2.230	3.211	5.5	20.6
6 10	15 36.72	-30 10.4	1.273	2.244	10.1	19.3	6 10	15 37.85	-36 35.1	2.264	3.215	7.6	20.8
6 20	15 29.73	-29 22.2	1.327	2.249	14.2	19.6	6 20	15 30.11	-36 16.9	2.323	3.218	10.1	20.9
6 30	15 26.10	-28 36.6	1.400	2.254	17.9	19.8	6 30	15 24.67	-35 53.8	2.405	3.222	12.5	21.1
<b>394217</b>	2006 <i>SF</i> <sub>266</sub>		5 22.1 142°81	0°6/21.8	17		<b>103176</b>	1999 <i>XT</i> <sub>234</sub>		5 22.1 254°43	3°4/20.5	18	
4 21	16 17.81	-20 49.6	2.220	3.097	10.8	21.1	4 21	16 21.93	-13 26.3	1.800	2.681	12.6	20.2
5 1	16 12.27	-20 12.3	2.151	3.098	7.6	20.9	5 1	16 15.66	-12 47.8	1.714	2.662	9.2	19.9
5 11	16 5.18	-19 29.4	2.106	3.100	4.1	20.6	5 11	16 7.27	-12 8.6	1.653	2.643	5.5	19.6
5 21	15 57.24	-18 43.2	2.090	3.101	0.6	20.4	5 21	15 57.51	-11 31.9	1.618	2.622	3.4	19.5
5 31	15 49.28	-17 56.7	2.101	3.103	3.5	20.6	5 31	15 47.43	-11 1.7	1.610	2.602	5.9	19.6
6 10	15 42.12	-17 13.6	2.140	3.104	7.1	20.8	6 10	15 38.16	-10 41.6	1.628	2.580	9.9	19.8
6 20	15 36.40	-16 37.0	2.205	3.105	10.3	21.0	6 20	15 30.62	-10 33.9	1.670	2.558	13.7	19.9
6 30	15 32.60	-16 9.2	2.291	3.107	13.1	21.2	6 30	15 25.49	-10 39.8	1.732	2.535	17.1	20.1
<b>34600</b>	2000 <i>TY</i> <sub>39</sub>		5 22.1 211°79	4°6/24.2	18		<b>34836</b>	2001 <i>SE</i> <sub>254</sub>		5 22.1 239°73	0°5/21.9	17	
4 21	16 22.85	-34 4.8	2.434	3.267	11.4	19.5	4 21	16 18.51	-19 56.6	2.215	3.091	10.8	19.6
5 1	16 16.08	-34 45.3	2.354	3.264	9.0	19.3	5 1	16 12.86	-19 39.9	2.139	3.086	7.7	19.3
5 11	16 7.38	-35 14.3	2.298	3.260	6.4	19.2	5 11	16 5.57	-19 18.9	2.089	3.082	4.1	19.1
5 21	15 57.48	-35 29.7	2.270	3.257	4.7	19.0	5 21	15 57.33	-18 55.2	2.066	3.077	0.6	18.8
5 31	15 47.33	-35 30.9	2.269	3.253	5.2	19.1	5 31	15 48.98	-18 30.9	2.071	3.073	3.5	19.1
6 10	15 37.95	-35 19.8	2.296	3.249	7.3	19.2	6 10	15 41.38	-18 8.7	2.103	3.068	7.1	19.3
6 20	15 30.17	-35 0.1	2.348	3.245	9.9	19.4	6 20	15 35.22	-17 51.3	2.161	3.063	10.4	19.5
6 30	15 24.59	-34 36.0	2.423	3.241	12.4	19.5	6 30	15 31.02	-17 40.6	2.241	3.058	13.3	19.7
<b>185933</b>	2000 <i>UV</i> <sub>59</sub>		5 22.1 199°67	3°6/24.2	18		<b>348846</b>	2006 <i>SB</i> <sub>40</sub>					

EPHEMERIDES

5 22.1

5 22.2

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>182206</b>	2000 WZ <sub>42</sub>		5 22.1 145°64	1°5/21.0	18		<b>12822</b>	1996 XD <sub>1</sub>		5 22.1 306°28	1°9/21.6	18	
4 21	16 16.99	-16 31.4	2.914	3.786	8.6	20.9	4 21	16 21.35	-17 20.9	1.127	2.030	16.7	17.2
5 1	16 11.35	-15 56.8	2.850	3.795	6.1	20.7	5 1	16 16.32	-17 10.2	1.051	2.011	12.1	16.9
5 11	16 4.58	-15 20.7	2.813	3.804	3.4	20.6	5 11	16 8.10	-16 56.5	0.995	1.991	6.7	16.5
5 21	15 57.22	-14 44.9	2.805	3.813	1.5	20.4	5 21	15 57.67	-16 42.0	0.961	1.972	1.9	16.1
5 31	15 49.88	-14 11.6	2.826	3.822	3.3	20.6	5 31	15 46.61	-16 30.1	0.950	1.953	6.2	16.3
6 10	15 43.15	-13 43.0	2.876	3.830	6.0	20.8	6 10	15 36.73	-16 25.2	0.962	1.935	12.2	16.6
6 20	15 37.52	-13 21.0	2.953	3.837	8.5	21.0	6 20	15 29.48	-16 30.7	0.993	1.917	17.6	16.8
6 30	15 33.36	-13 6.5	3.052	3.844	10.7	21.1	6 30	15 25.82	-16 49.0	1.041	1.900	22.3	17.1
<b>222719</b>	2002 AY <sub>130</sub>		5 22.1 190°30	2°3/20.8	17		<b>87845</b>	2000 SG <sub>208</sub>		5 22.1 295°63	0°7/21.8	18	
4 21	16 20.82	-13 59.4	2.441	3.312	10.1	21.5	4 21	16 18.09	-19 45.8	2.065	2.945	11.3	19.9
5 1	16 14.29	-13 33.6	2.367	3.311	7.2	21.3	5 1	16 12.79	-19 25.7	1.974	2.924	8.1	19.7
5 11	16 6.27	-13 7.6	2.319	3.309	4.2	21.1	5 11	16 5.67	-19 0.9	1.909	2.902	4.4	19.4
5 21	15 57.40	-12 43.4	2.300	3.306	2.3	21.0	5 21	15 57.39	-18 32.9	1.869	2.881	0.7	19.1
5 31	15 48.46	-12 23.5	2.310	3.302	4.3	21.1	5 31	15 48.84	-18 4.1	1.858	2.860	3.8	19.3
6 10	15 40.21	-12 9.9	2.348	3.298	7.4	21.3	6 10	15 40.99	-17 37.7	1.873	2.839	7.8	19.5
6 20	15 33.30	-12 4.1	2.412	3.292	10.3	21.5	6 20	15 34.62	-17 16.8	1.913	2.818	11.4	19.7
6 30	15 28.20	-12 7.2	2.498	3.287	12.9	21.6	6 30	15 30.35	-17 3.9	1.974	2.797	14.6	19.8
<b>148450</b>	2000 YN <sub>35</sub>		5 22.1 233°33	3°2/20.4	18		<b>376532</b>	2012 SA <sub>24</sub>		5 22.1 40°65	0°5/21.7	18	
4 21	16 18.63	-8 58.6	2.809	3.676	9.1	20.0	4 21	16 11.10	-18 53.5	4.277	5.147	6.2	21.3
5 1	16 12.66	-8 48.5	2.725	3.663	6.7	19.8	5 1	16 7.04	-18 37.0	4.203	5.148	4.3	21.2
5 11	16 5.38	-8 41.9	2.669	3.651	4.3	19.6	5 11	16 2.24	-18 18.8	4.157	5.149	2.3	21.0
5 21	15 57.32	-8 40.6	2.640	3.637	3.2	19.5	5 21	15 57.03	-17 59.9	4.139	5.151	0.5	20.8
5 31	15 49.11	-8 45.9	2.641	3.624	4.6	19.6	5 31	15 51.80	-17 41.2	4.151	5.152	2.0	21.0
6 10	15 41.43	-8 58.8	2.670	3.610	7.1	19.7	6 10	15 46.92	-17 24.2	4.193	5.153	4.1	21.1
6 20	15 34.82	-9 19.8	2.726	3.595	9.6	19.9	6 20	15 42.72	-17 9.9	4.261	5.154	5.9	21.3
6 30	15 29.74	-9 48.7	2.804	3.581	11.9	20.0	6 30	15 39.47	-16 59.3	4.354	5.156	7.6	21.4
<b>172028</b>	2001 VL <sub>23</sub>		5 22.1 209°28	0°4/22.4	18		<b>284428</b>	2007 CE <sub>64</sub>		5 22.1 226°67	1°1/21.6	18	
4 21	16 18.79	-22 46.9	2.659	3.524	9.6	21.1	4 21	16 22.05	-18 26.8	2.158	3.030	11.2	21.9
5 1	16 12.86	-22 35.2	2.577	3.518	6.9	20.9	5 1	16 15.47	-18 4.3	2.072	3.017	8.0	21.6
5 11	16 5.51	-22 18.1	2.522	3.513	3.8	20.7	5 11	16 7.07	-17 38.0	2.012	3.004	4.4	21.4
5 21	15 57.33	-21 56.4	2.495	3.506	0.6	20.4	5 21	15 57.55	-17 9.5	1.979	2.990	1.1	21.1
5 31	15 49.04	-21 31.7	2.497	3.499	2.9	20.6	5 31	15 47.83	-16 41.3	1.976	2.975	4.0	21.3
6 10	15 41.39	-21 6.4	2.527	3.492	6.1	20.8	6 10	15 38.85	-16 16.4	2.000	2.960	7.8	21.5
6 20	15 34.99	-20 43.1	2.584	3.485	9.0	21.0	6 20	15 31.39	-15 57.5	2.050	2.944	11.3	21.7
6 30	15 30.30	-20 24.2	2.665	3.477	11.5	21.1	6 30	15 26.04	-15 47.0	2.121	2.927	14.3	21.9
<b>32039</b>	2000 JO <sub>23</sub>		5 22.1 328°10	7°6/24.6	18		<b>94467</b>	2001 TS <sub>164</sub>		5 22.1 274°31	0°2/22.1	17	
4 21	16 15.76	-33 40.9	0.959	1.854	19.8	16.8	4 21	16 22.90	-21 11.1	1.379	2.268	15.2	20.6
5 1	16 13.19	-34 14.3	0.877	1.823	15.8	16.5	5 1	16 16.96	-20 57.7	1.301	2.254	11.0	20.3
5 11	16 6.80	-34 24.7	0.811	1.793	11.4	16.1	5 11	16 8.23	-20 36.6	1.246	2.240	6.0	20.0
5 21	15 57.52	-34 5.8	0.765	1.764	8.0	15.8	5 21	15 57.69	-20 9.1	1.214	2.226	0.6	19.6
5 31	15 47.24	-33 15.7	0.738	1.737	8.7	15.7	5 31	15 46.75	-19 38.3	1.207	2.211	5.0	19.9
6 10	15 38.29	-32 0.2	0.730	1.711	13.3	15.9	6 10	15 36.94	-19 8.9	1.225	2.197	10.3	20.1
6 20	15 32.63	-30 31.1	0.740	1.688	18.8	16.0	6 20	15 29.47	-18 45.9	1.266	2.182	15.2	20.3
6 30	15 31.48	-29 1.8	0.764	1.667	23.9	16.2	6 30	15 25.15	-18 33.2	1.324	2.168	19.3	20.6
<b>58546</b>	1997 FQ <sub>2</sub>		5 22.1 17°33	5°1/18.7	18		<b>407827</b>	2012 BR <sub>15</sub>		5 22.1 132°22	3°0/20.8	16	
4 21	16 15.91	-7 46.9	2.097	2.979	11.1	19.3	4 21	16 23.70	-13 46.4	1.769	2.648	12.9	22.1
5 1	16 10.94	-6 39.4	2.038	2.980	8.3	19.1	5 1	16 16.62	-13 15.1	1.715	2.662	9.2	21.9
5 11	16 4.49	-5 36.0	2.004	2.982	5.9	18.9	5 11	16 7.62	-12 44.3	1.685	2.676	5.4	21.7
5 21	15 57.22	-4 41.3	1.996	2.983	5.2	18.9	5 21	15 57.60	-12 17.0	1.682	2.688	3.0	21.6
5 31	15 49.95	-3 59.2	2.015	2.985	6.9	19.0	5 31	15 47.64	-11 56.1	1.707	2.700	5.4	21.8
6 10	15 43.44	-3 32.5	2.060	2.988	9.5	19.2	6 10	15 38.80	-11 44.5	1.758	2.711	9.2	22.0
6 20	15 38.32	-3 22.0	2.128	2.990	12.3	19.4	6 20	15 31.85	-11 43.6	1.833	2.722	12.7	22.2
6 30	15 35.03	-3 27.3	2.216	2.992	14.6	19.5	6 30	15 27.27	-11 53.9	1.929	2.732	15.6	22.5
<b>338949</b>	2004 EW <sub>75</sub>		5 22.1 94°84	1°3/21.5	17		<b>484733</b>	2008 XF <sub>53</sub>		5 22.1 186°45	10°4/27.9	18	
4 21	16 19.07	-17 33.5	2.110	2.988	11.1	21.0	4 21	16 33.17	-45 22.7	1.213	2.033	21.3	21.3
5 1	16 13.18	-17 13.2	2.050	2.999	7.9	20.8	5 1	16 25.03	-45 15.7	1.144	2.034	17.9	21.1
5 11	16 5.69	-16 50.6	2.016	3.009	4.3	20.6	5 11	16 12.75	-44 30.2	1.093	2.033	14.2	20.8
5 21	15 57.35	-16 27.6	2.009	3.019	1.3	20.4	5 21	15 58.14	-43 0.1	1.062	2.033	11.2	20.7
5 31	15 49.02	-16 6.6	2.030	3.030	3.9	20.6	5 31	15 43.68	-40 47.5	1.054	2.031	10.5	20.6
6 10	15 41.55	-15 50.0	2.078	3.040	7.4	20.8	6 10	15 31.70	-38 5.4	1.070	2.030	12.9	20.7
6 20	15 35.61	-15 40.0	2.151	3.049	10.6	21.1	6 20	15 23.63	-35 11.9	1.108	2.027	16.6	20.9
6 30	15 31.65	-15 37.9	2.246	3.059	13.4	21.3	6 30	15 20.02	-32 24.9	1.166	2.024	20.4	21.2
<b>280598</b>	2004 VW <sub>41</sub>		5 22.1 72°42	1°9/22.7	17		<b>11486</b>	1988 RE <sub>6</sub>		5 22.2 181°21	0°3/21.9	18	
4 21	16 24.10	-23 37.3	1.772	2.644	13.3	20.9	4 21	16 23.62	-20 27.7	1.992	2.863	12.0	19.2
5 1	16 17.22	-24 17.0	1.707	2.650	9.6	20.7	5 1	16 16.61	-20 13.3	1.920	2.865	8.6	19.0
5 11	16 8.10	-24 50.8	1.666	2.655	5.6	20.5	5 11	16 7.68	-19 53.7	1.873	2.865	4.6	18.7
5 21	15 57.61	-25 17.0	1.652	2.661	2.0	20.3	5 21	15 57.63	-19 30.2	1.853	2.865	0.5	18.4
5 31	15 46.95	-25 35.4	1.665	2.667	4.2	20.4	5 31	15 47.49	-19 5.0	1.863	2.865	3.8	18.7
6 10	15 37.34	-25 47.6	1.705	2.673	8.2	20.7	6 10	15 38.28	-18 41.3	1.899	2.863	7.8	18.9
6 20	15 29.71	-25 56.4	1.769	2.679	11.9	20.9	6 20	15 30.81	-18 22.2	1.961	2.861	11.4	19.1
6 30	15 24.70	-26 5.2	1.854	2.685	15.1	21.1	6 30	15 25.65	-18 10.3	2.045	2.858	14.5	19.3
<b>233421</b>	2006 HW <sub>1</sub>		5 22.1 107°02	1°7/21.4	18		<b>64113</b>	2001 TD <sub>11</sub>		5 22.2 92°76	1°8/20.9	18	
4 21	16 20.55	-16 7.3	1										

EPHEMERIDES

5 22.2

5 22.2

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>478245</b>	2011 <i>UB</i> <sub>356</sub>		5 22.2 267°70	1°3/21.5	16		<b>498528</b>	2008 <i>FB</i> <sub>5</sub>		5 22.2 112°71	4°6/18.9	17	
4 21	16 18.28	-17 28.7	2.204	3.083	10.7	21.8	4 21	16 17.19	-5 11.4	2.741	3.607	9.3	22.1
5 1	16 12.75	-17 10.4	2.125	3.073	7.6	21.6	5 1	16 11.48	-4 21.2	2.696	3.626	7.1	22.0
5 11	16 5.58	-16 49.8	2.071	3.064	4.2	21.4	5 11	16 4.69	-3 36.7	2.677	3.646	5.2	21.9
5 21	15 57.43	-16 28.5	2.044	3.055	1.3	21.2	5 21	15 57.35	-3 0.7	2.685	3.664	4.7	21.9
5 31	15 49.13	-16 8.7	2.046	3.045	3.9	21.3	5 31	15 50.08	-2 35.7	2.723	3.683	5.9	22.0
6 10	15 41.54	-15 53.0	2.074	3.036	7.4	21.5	6 10	15 43.48	-2 22.9	2.787	3.701	7.9	22.1
6 20	15 35.35	-15 43.4	2.128	3.026	10.7	21.7	6 20	15 38.02	-2 22.7	2.875	3.718	10.0	22.3
6 30	15 31.10	-15 41.6	2.203	3.017	13.6	21.9	6 30	15 34.03	-2 34.2	2.986	3.735	11.8	22.5
<b>513024</b>	2017 <i>VF</i> <sub>3</sub>		5 22.2 231°39	0°3/22.3	17		<b>278079</b>	2007 <i>AG</i> <sub>27</sub>		5 22.2 202°26	7°6/18.3	17	
4 21	16 23.65	-20 37.0	2.145	3.013	11.4	21.9	4 21	16 20.67	-0 11.1	1.986	2.847	12.5	21.4
5 1	16 16.72	-20 53.1	2.058	3.001	8.2	21.6	5 1	16 14.43	+0 42.1	1.923	2.844	10.0	21.2
5 11	16 7.83	-21 5.7	1.997	2.989	4.5	21.4	5 11	16 6.48	+1 24.3	1.885	2.840	8.1	21.1
5 21	15 57.67	-21 14.7	1.964	2.976	0.6	21.0	5 21	15 57.55	+1 50.9	1.872	2.836	7.7	21.1
5 31	15 47.22	-21 20.5	1.960	2.963	3.6	21.3	5 31	15 48.53	+1 58.5	1.886	2.831	9.1	21.1
6 10	15 37.50	-21 24.8	1.984	2.949	7.5	21.5	6 10	15 40.34	+1 45.8	1.924	2.826	11.5	21.3
6 20	15 29.35	-21 29.9	2.034	2.934	11.1	21.7	6 20	15 33.70	+1 14.1	1.985	2.820	14.0	21.4
6 30	15 23.41	-21 38.0	2.106	2.919	14.1	21.8	6 30	15 29.13	+0 25.6	2.064	2.814	16.4	21.6
<b>52542</b>	1996 <i>VU</i> <sub>4</sub>		5 22.2 183°86	1°8/21.2	18		<b>384958</b>	2012 <i>TM</i> <sub>146</sub>		5 22.2 212°64	2°4/23.4	17	
4 21	16 19.69	-14 11.5	2.618	3.488	9.5	19.3	4 21	16 21.14	-27 59.4	2.131	2.991	11.8	21.6
5 1	16 13.47	-14 8.8	2.544	3.488	6.8	19.1	5 1	16 14.92	-28 3.8	2.054	2.988	8.8	21.4
5 11	16 5.86	-14 6.7	2.498	3.488	3.9	19.0	5 11	16 6.82	-27 58.4	2.001	2.985	5.4	21.2
5 21	15 57.45	-14 6.3	2.479	3.487	1.8	18.8	5 21	15 57.59	-27 42.8	1.975	2.981	2.6	21.0
5 31	15 48.96	-14 8.9	2.491	3.486	3.7	18.9	5 31	15 48.22	-27 18.4	1.977	2.978	3.9	21.1
6 10	15 41.10	-14 15.8	2.530	3.485	6.7	19.1	6 10	15 39.71	-26 48.1	2.006	2.974	7.2	21.3
6 20	15 34.46	-14 27.8	2.596	3.483	9.5	19.3	6 20	15 32.85	-26 16.1	2.061	2.970	10.5	21.5
6 30	15 29.49	-14 45.7	2.685	3.481	11.9	19.5	6 30	15 28.22	-25 46.3	2.138	2.966	13.4	21.7
<b>192752</b>	1999 <i>TH</i> <sub>256</sub>		5 22.2 156°32	7°8/15.9	17		<b>185778</b>	1999 <i>TL</i> <sub>291</sub>		5 22.2 246°38	1°6/21.2	18	
4 21	16 18.56	+3 3.9	2.462	3.309	10.9	20.9	4 21	16 17.75	-15 25.1	2.656	3.529	9.3	20.7
5 1	16 12.59	+4 33.4	2.415	3.317	9.1	20.8	5 1	16 12.17	-15 10.9	2.571	3.516	6.6	20.5
5 11	16 5.33	+5 51.8	2.393	3.324	8.0	20.8	5 11	16 5.21	-14 56.0	2.512	3.504	3.7	20.3
5 21	15 57.39	+6 54.3	2.398	3.331	8.0	20.8	5 21	15 57.42	-14 42.0	2.482	3.491	1.6	20.1
5 31	15 49.48	+7 37.3	2.429	3.337	9.1	20.9	5 31	15 49.49	-14 30.5	2.481	3.477	3.6	20.2
6 10	15 42.29	+7 59.4	2.485	3.343	10.8	21.0	6 10	15 42.11	-14 23.3	2.507	3.464	6.6	20.4
6 20	15 36.35	+8 1.1	2.564	3.348	12.7	21.1	6 20	15 35.88	-14 21.9	2.560	3.450	9.5	20.6
6 30	15 32.07	+7 44.5	2.660	3.352	14.3	21.3	6 30	15 31.26	-14 27.3	2.636	3.436	12.0	20.7
<b>184887</b>	2005 <i>UO</i> <sub>226</sub>		5 22.2 295°21	0°1/22.2	18		<b>272484</b>	2005 <i>UA</i> <sub>114</sub>		5 22.2 152°61	4°8/23.4	17	
4 21	16 18.27	-21 7.6	2.144	3.021	11.1	20.6	4 21	16 32.41	-31 44.5	2.242	3.072	12.4	21.6
5 1	16 12.88	-20 59.7	2.057	3.004	7.9	20.4	5 1	16 23.10	-33 3.4	2.170	3.080	9.6	21.5
5 11	16 5.72	-20 46.9	1.994	2.987	4.3	20.2	5 11	16 11.37	-34 12.0	2.124	3.088	6.7	21.3
5 21	15 57.45	-20 30.2	1.958	2.970	0.5	19.8	5 21	15 58.09	-35 5.8	2.107	3.096	4.8	21.2
5 31	15 48.94	-20 11.2	1.950	2.954	3.5	20.0	5 31	15 44.44	-35 42.5	2.120	3.103	5.6	21.2
6 10	15 41.12	-19 52.7	1.970	2.937	7.3	20.2	6 10	15 31.69	-36 2.9	2.162	3.109	8.1	21.4
6 20	15 34.76	-19 37.4	2.014	2.921	10.9	20.4	6 20	15 20.89	-36 10.7	2.231	3.115	10.9	21.6
6 30	15 30.44	-19 27.9	2.080	2.904	13.9	20.6	6 30	15 12.75	-36 11.0	2.323	3.120	13.5	21.8
<b>307195</b>	2002 <i>EX</i> <sub>163</sub>		5 22.2 354°01	1°3/22.6	18		<b>304428</b>	2006 <i>TO</i> <sub>81</sub>		5 22.2 271°90	3°7/23.8	18	
4 21	16 21.25	-22 47.3	2.124	2.994	11.5	20.2	4 21	16 21.71	-30 47.0	2.194	3.045	11.9	21.1
5 1	16 15.00	-23 23.2	2.051	2.993	8.3	20.0	5 1	16 15.47	-31 16.9	2.109	3.034	9.1	20.9
5 11	16 6.86	-23 55.0	2.002	2.992	4.7	19.8	5 11	16 7.20	-31 36.6	2.048	3.023	6.1	20.7
5 21	15 57.58	-24 21.4	1.981	2.991	1.5	19.6	5 21	15 57.65	-31 44.1	2.013	3.011	3.9	20.6
5 31	15 48.08	-24 42.3	1.987	2.990	3.6	19.7	5 31	15 47.80	-31 39.5	2.006	3.000	4.7	20.6
6 10	15 39.35	-24 58.8	2.022	2.990	7.2	19.9	6 10	15 38.71	-31 24.8	2.026	2.989	7.5	20.8
6 20	15 32.21	-25 12.9	2.082	2.989	10.5	20.1	6 20	15 31.27	-31 3.8	2.072	2.978	10.6	20.9
6 30	15 27.23	-25 27.0	2.164	2.989	13.4	20.3	6 30	15 26.12	-30 40.8	2.139	2.966	13.5	21.1
<b>333847</b>	1993 <i>YB</i>		5 22.2 91°68	22°7/22.7	17		<b>508667</b>	2017 <i>UL</i> <sub>10</sub>		5 22.2 139°68	5°6/25.8	17	
4 21	16 34.10	+26 50.6	1.086	1.859	26.1	20.4	4 21	16 26.15	-42 2.5	3.172	3.953	10.3	22.4
5 1	16 24.66	+27 31.3	1.060	1.871	24.5	20.3	5 1	16 18.16	-42 46.4	3.104	3.967	8.5	22.3
5 11	16 12.12	+27 19.7	1.046	1.882	23.3	20.3	5 11	16 8.47	-43 16.6	3.061	3.981	6.9	22.2
5 21	15 58.10	+26 7.7	1.047	1.893	22.7	20.3	5 21	15 57.78	-43 30.8	3.045	3.994	5.8	22.2
5 31	15 44.57	+23 54.9	1.065	1.905	23.0	20.3	5 31	15 46.97	-43 28.5	3.057	4.007	5.8	22.2
6 10	15 33.25	+20 50.8	1.100	1.916	24.0	20.4	6 10	15 36.93	-43 11.7	3.097	4.019	6.9	22.3
6 20	15 25.20	+17 10.2	1.151	1.926	25.5	20.6	6 20	15 28.38	-42 43.7	3.163	4.031	8.5	22.4
6 30	15 20.85	+13 9.2	1.218	1.937	27.1	20.8	6 30	15 21.84	-42 9.1	3.253	4.042	10.1	22.5
<b>359777</b>	2011 <i>UX</i> <sub>140</sub>		5 22.2 259°84	0°4/22.4	18		<b>424264</b>	2007 <i>SD</i> <sub>14</sub>		5 22.2 235°30	1°2/21.6	17	
4 21	16 18.24	-23 22.8	2.367	3.236	10.4	21.0	4 21	16 22.88	-19 41.0	1.684	2.565	13.4	21.6
5 1	16 12.68	-22 54.4	2.280	3.223	7.5	20.8	5 1	16 16.48	-19 3.0	1.604	2.554	9.6	21.3
5 11	16 5.53	-22 18.8	2.219	3.210	4.1	20.5	5 11	16 7.80	-18 18.2	1.548	2.542	5.2	21.0
5 21	15 57.44	-21 37.3	2.185	3.196	0.6	20.2	5 21	15 57.73	-17 29.2	1.518	2.530	1.2	20.7
5 31	15 49.20	-20 52.3	2.180	3.183	3.2	20.4	5 31	15 47.42	-16 40.0	1.516	2.517	4.7	20.9
6 10	15 41.66	-20 7.5	2.202	3.169	6.7	20.6	6 10	15 38.10	-15 55.6	1.540	2.504	9.3	21.1
6 20	15 35.48	-19 26.2	2.251	3.155	10.0	20.8	6 20	15 30.74	-15 20.3	1.587	2.490	13.5	21.4
6 30	15 31.19	-18 51.6	2.322	3.140	12.8	21.0	6 30	15 25.99	-14 57.3	1.655	2.475	17.1	21.6
<b>471090</b>	2010 <i>AX</i> <sub>23</sub>		5 22.2 50°22	4°6/20.5	17		<b>12725</b>	1991 <i>PP</i> <sub>16</sub>					

EPHEMERIDES

5 22.2

5 22.2

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>225999</b>	2002 <i>DU</i> <sub>8</sub>		5 22.2 155°81	1.2°/21.7	17		<b>417404</b>	2006 <i>JC</i> <sub>12</sub>		5 22.2 338°22	4.5°/21.1	17	
4 21	16 23.69	-16 21.1	2.224	3.094	11.0	20.7	4 21	16 18.99	-11 25.2	1.047	1.957	17.2	20.1
5 1	16 16.48	-16 30.2	2.158	3.101	7.8	20.5	5 1	16 14.63	-11 22.0	0.982	1.943	12.6	19.7
5 11	16 7.57	-16 38.7	2.117	3.108	4.3	20.3	5 11	16 7.20	-11 25.6	0.936	1.930	7.7	19.4
5 21	15 57.70	-16 47.2	2.104	3.115	1.2	20.1	5 21	15 57.72	-11 39.4	0.911	1.918	4.5	19.2
5 31	15 47.74	-16 56.5	2.121	3.121	3.8	20.3	5 31	15 47.76	-12 6.2	0.908	1.907	7.6	19.3
6 10	15 38.62	-17 8.0	2.167	3.126	7.3	20.5	6 10	15 39.07	-12 47.2	0.927	1.897	12.9	19.6
6 20	15 31.04	-17 23.0	2.238	3.131	10.5	20.7	6 20	15 32.99	-13 41.7	0.964	1.889	17.9	19.8
6 30	15 25.52	-17 42.5	2.332	3.135	13.2	20.9	6 30	15 30.42	-14 48.2	1.018	1.883	22.3	20.1
<b>352599</b>	2008 <i>EZ</i> <sub>55</sub>		5 22.2 126°17	1.8°/23.2	17		<b>303709</b>	2005 <i>PL</i> <sub>9</sub>		5 22.2 279°35	3.0°/20.6	18	
4 21	16 19.56	-26 57.2	2.407	3.267	10.7	22.0	4 21	16 17.88	-12 38.7	2.188	3.068	10.7	21.1
5 1	16 13.54	-26 54.0	2.339	3.274	7.8	21.8	5 1	16 12.50	-12 10.2	2.106	3.053	7.8	20.9
5 11	16 5.96	-26 42.4	2.296	3.281	4.6	21.6	5 11	16 5.50	-11 42.6	2.049	3.038	4.7	20.7
5 21	15 57.52	-26 22.8	2.280	3.288	1.9	21.4	5 21	15 57.51	-11 18.3	2.020	3.024	3.0	20.5
5 31	15 49.05	-25 56.7	2.293	3.294	3.3	21.5	5 31	15 49.34	-11 0.1	2.018	3.009	5.0	20.6
6 10	15 41.37	-25 27.1	2.333	3.301	6.4	21.7	6 10	15 41.83	-10 50.3	2.043	2.994	8.2	20.8
6 20	15 35.14	-24 57.0	2.400	3.307	9.3	21.9	6 20	15 35.67	-10 50.5	2.092	2.979	11.4	21.0
6 30	15 30.83	-24 29.9	2.490	3.313	11.9	22.1	6 30	15 31.42	-11 1.1	2.163	2.964	14.2	21.1
<b>63441</b>	2001 <i>NV</i> <sub>2</sub>		5 22.2 174°37	2.9°/20.9	18		<b>393083</b>	2013 <i>AJ</i> <sub>100</sub>		5 22.2 255°16	4.0°/20.2	16	
4 21	16 22.17	-13 15.1	1.824	2.704	12.5	19.8	4 21	16 18.39	- 8 22.4	2.256	3.131	10.7	21.0
5 1	16 15.68	-12 56.2	1.758	2.706	9.0	19.6	5 1	16 12.74	- 8 3.4	2.186	3.127	7.9	20.8
5 11	16 7.24	-12 38.5	1.717	2.707	5.3	19.4	5 11	16 5.57	- 7 49.2	2.141	3.123	5.2	20.7
5 21	15 57.67	-12 24.5	1.702	2.708	2.9	19.2	5 21	15 57.52	- 7 42.1	2.123	3.119	4.0	20.6
5 31	15 48.01	-12 16.5	1.715	2.709	5.3	19.4	5 31	15 49.37	- 7 44.0	2.133	3.115	5.6	20.7
6 10	15 39.31	-12 16.9	1.754	2.709	9.0	19.6	6 10	15 41.91	- 7 56.3	2.170	3.111	8.4	20.8
6 20	15 32.36	-12 26.7	1.817	2.709	12.6	19.8	6 20	15 35.79	- 8 19.0	2.231	3.107	11.2	21.0
6 30	15 27.74	-12 46.5	1.900	2.708	15.6	20.0	6 30	15 31.48	- 8 51.8	2.314	3.102	13.7	21.2
<b>315230</b>	2007 <i>RA</i> <sub>213</sub>		5 22.2 260°34	3.0°/20.8	17		<b>190436</b>	1999 <i>XJ</i> <sub>181</sub>		5 22.2 155°08	2.7°/23.9	17	
4 21	16 22.42	-15 34.1	1.578	2.464	13.8	21.1	4 21	16 22.34	-30 49.7	2.681	3.522	10.3	20.8
5 1	16 16.32	-14 49.3	1.495	2.446	10.0	20.9	5 1	16 15.40	-30 47.2	2.610	3.531	7.7	20.7
5 11	16 7.81	-14 1.1	1.435	2.428	5.7	20.6	5 11	16 6.94	-30 34.4	2.565	3.540	5.0	20.5
5 21	15 57.75	-13 13.1	1.401	2.408	3.0	20.3	5 21	15 57.66	-30 11.1	2.548	3.549	2.9	20.4
5 31	15 47.34	-12 30.1	1.393	2.389	6.0	20.5	5 31	15 48.38	-29 38.8	2.560	3.556	3.6	20.4
6 10	15 37.86	-11 56.9	1.411	2.369	10.5	20.7	6 10	15 39.90	-29 0.2	2.601	3.563	6.1	20.6
6 20	15 30.36	-11 37.0	1.451	2.348	14.9	20.9	6 20	15 32.86	-28 19.1	2.668	3.569	8.7	20.8
6 30	15 25.57	-11 32.3	1.510	2.327	18.6	21.1	6 30	15 27.71	-27 39.2	2.760	3.575	11.1	21.0
<b>387314</b>	2012 <i>VY</i> <sub>61</sub>		5 22.2 354°83	0.1°/22.2	17		<b>340435</b>	2006 <i>FB</i> <sub>50</sub>		5 22.2 0°20	2.0°/21.7	17	
4 21	16 20.50	-20 29.4	1.893	2.772	12.2	20.7	4 21	16 20.81	-14 35.1	1.468	2.360	14.3	19.3
5 1	16 14.56	-20 38.3	1.823	2.771	8.7	20.5	5 1	16 15.17	-14 53.7	1.404	2.359	10.2	19.1
5 11	16 6.67	-20 43.2	1.777	2.770	4.8	20.3	5 11	16 7.16	-15 14.7	1.363	2.357	5.7	18.8
5 21	15 57.62	-20 44.6	1.758	2.770	0.5	19.9	5 21	15 57.71	-15 38.9	1.347	2.357	2.0	18.5
5 31	15 48.41	-20 43.6	1.766	2.770	3.7	20.2	5 31	15 48.04	-16 7.0	1.356	2.358	5.1	18.8
6 10	15 40.09	-20 42.5	1.801	2.769	7.8	20.4	6 10	15 39.45	-16 39.8	1.391	2.359	9.7	19.0
6 20	15 33.49	-20 43.5	1.860	2.769	11.5	20.7	6 20	15 32.95	-17 17.6	1.447	2.361	13.8	19.3
6 30	15 29.19	-20 49.0	1.941	2.770	14.6	20.9	6 30	15 29.19	-18 1.1	1.524	2.363	17.4	19.5
<b>100630</b>	1997 <i>UQ</i> <sub>7</sub>		5 22.2 225°80	2.1°/22.9	18		<b>479044</b>	2013 <i>AJ</i> <sub>40</sub>		5 22.2 10°95	5.2°/25.5	16	
4 21	16 25.78	-25 9.5	1.630	2.501	14.3	20.1	4 21	16 20.26	-37 15.3	2.161	2.992	12.8	20.9
5 1	16 18.79	-25 29.8	1.552	2.494	10.5	19.8	5 1	16 14.38	-37 15.0	2.087	2.993	10.1	20.7
5 11	16 9.18	-25 41.4	1.497	2.486	6.2	19.5	5 11	16 6.56	-36 57.9	2.036	2.994	7.4	20.6
5 21	15 57.91	-25 43.0	1.469	2.478	2.3	19.3	5 21	15 57.63	-36 23.1	2.010	2.995	5.4	20.4
5 31	15 46.28	-25 35.1	1.466	2.469	4.6	19.4	5 31	15 48.66	-35 32.1	2.011	2.996	5.6	20.4
6 10	15 35.71	-25 20.8	1.491	2.460	9.0	19.6	6 10	15 40.70	-34 29.1	2.038	2.998	7.7	20.6
6 20	15 27.34	-25 4.6	1.538	2.450	13.3	19.9	6 20	15 34.54	-33 20.0	2.091	2.999	10.4	20.8
6 30	15 21.91	-24 51.2	1.607	2.440	16.9	20.1	6 30	15 30.71	-32 10.6	2.166	3.001	13.0	20.9
<b>233758</b>	2008 <i>TV</i> <sub>42</sub>		5 22.2 111°51	4.6°/24.7	17		<b>297621</b>	2001 <i>TZ</i> <sub>32</sub>		5 22.2 195°93	2.4°/23.7	18	
4 21	16 23.20	-34 18.6	2.019	2.861	13.1	20.9	4 21	16 19.92	-29 45.0	2.602	3.450	10.3	21.1
5 1	16 16.46	-34 26.8	1.955	2.871	10.2	20.7	5 1	16 13.80	-29 39.5	2.521	3.448	7.7	20.9
5 11	16 7.66	-34 19.7	1.914	2.881	7.1	20.5	5 11	16 6.14	-29 24.2	2.466	3.445	4.9	20.8
5 21	15 57.72	-33 56.2	1.898	2.891	4.8	20.4	5 21	15 57.59	-28 59.0	2.439	3.443	2.6	20.6
5 31	15 47.78	-33 17.8	1.910	2.901	5.2	20.4	5 31	15 48.96	-28 25.4	2.441	3.439	3.4	20.7
6 10	15 38.96	-32 28.7	1.948	2.910	7.8	20.6	6 10	15 41.06	-27 46.4	2.471	3.436	6.2	20.8
6 20	15 32.08	-31 34.5	2.011	2.919	10.8	20.8	6 20	15 34.53	-27 5.4	2.527	3.432	9.0	21.0
6 30	15 27.68	-30 41.0	2.097	2.928	13.6	21.0	6 30	15 29.87	-26 26.2	2.607	3.428	11.5	21.2
<b>140626</b>	2001 <i>UC</i> <sub>13</sub>		5 22.2 169°23	1.9°/20.9	18		<b>510669</b>	2012 <i>UR</i> <sub>7</sub>		5 22.2 247°31	1.9°/21.3	17	
4 21	16 17.62	-16 21.7	2.434	3.310	9.9	19.9	4 21	16 19.87	-15 46.1	2.034	2.914	11.5	21.7
5 1	16 12.06	-15 36.4	2.365	3.312	7.0	19.7	5 1	16 14.00	-15 30.8	1.958	2.907	8.2	21.4
5 11	16 5.14	-14 48.9	2.322	3.314	3.9	19.5	5 11	16 6.35	-15 14.5	1.907	2.900	4.6	21.2
5 21	15 57.45	-14 1.8	2.308	3.316	1.9	19.4	5 21	15 57.62	-14 59.1	1.883	2.892	1.9	21.0
5 31	15 49.75	-13 18.2	2.322	3.317	4.0	19.5	5 31	15 48.73	-14 46.8	1.887	2.885	4.4	21.2
6 10	15 42.76	-12 41.1	2.364	3.318	7.1	19.7	6 10	15 40.63	-14 39.9	1.918	2.877	8.1	21.4
6 20	15 37.06	-12 12.7	2.432	3.319	10.0	19.9	6 20	15 34.06	-14 40.3	1.973	2.870	11.5	21.6
6 30	15 33.07	-11 54.5	2.521	3.319	12.5	20.1	6 30	15 29.58	-14 49.1	2.049	2.862	14.5	21.8
<b>303192</b>	2004 <i>FE</i> <sub>146</sub>		5 22.2 1°18	5.3°/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>252776</b>	2002 <i>EO</i> <sub>122</sub>		5 22.2	1°63	2.7/20.8	18	<b>288292</b>	2004 <i>AF</i> <sub>24</sub>		5 22.2	24°26	5°0/20.5	18
4 21	16 16.43	-14 37.0	1.890	2.779	11.8	20.3	4 21	16 20.99	-10 5.8	1.366	2.260	15.0	19.7
5 1	16 11.58	-14 2.6	1.826	2.778	8.4	20.1	5 1	16 15.27	-9 38.8	1.311	2.263	11.0	19.4
5 11	16 5.01	-13 27.8	1.785	2.778	4.9	19.9	5 11	16 7.18	-9 17.3	1.277	2.266	7.0	19.2
5 21	15 57.48	-12 55.6	1.771	2.778	2.7	19.7	5 21	15 57.73	-9 5.3	1.268	2.270	5.0	19.1
5 31	15 49.87	-12 29.2	1.784	2.779	5.0	19.9	5 31	15 48.21	-9 5.9	1.284	2.274	7.3	19.3
6 10	15 43.11	-12 11.5	1.822	2.780	8.6	20.1	6 10	15 39.91	-9 21.0	1.323	2.278	11.4	19.5
6 20	15 37.91	-12 4.3	1.884	2.782	11.9	20.3	6 20	15 33.78	-9 50.5	1.383	2.283	15.3	19.7
6 30	15 34.77	-12 8.3	1.966	2.784	14.8	20.5	6 30	15 30.43	-10 33.1	1.462	2.288	18.7	20.0
<b>70427</b>	1999 <i>TB</i> <sub>1</sub>		5 22.2	229°24	1.4/21.4	18	<b>471890</b>	2013 <i>AR</i> <sub>130</sub>		5 22.2	136°47	4°6/19.9	17
4 21	16 22.61	-18 28.1	1.960	2.835	12.0	19.7	4 21	16 18.34	-5 43.3	2.413	3.281	10.3	21.2
5 1	16 16.06	-17 52.2	1.875	2.822	8.6	19.5	5 1	16 12.58	-5 25.4	2.350	3.285	7.8	21.0
5 11	16 7.51	-17 11.4	1.816	2.809	4.7	19.2	5 11	16 5.44	-5 13.9	2.313	3.288	5.5	20.9
5 21	15 57.75	-16 27.9	1.784	2.795	1.4	19.0	5 21	15 57.54	-5 11.1	2.303	3.291	4.6	20.8
5 31	15 47.78	-15 45.2	1.781	2.780	4.4	19.2	5 31	15 49.60	-5 18.7	2.320	3.293	5.9	20.9
6 10	15 38.64	-15 7.3	1.805	2.764	8.5	19.4	6 10	15 42.33	-5 37.3	2.365	3.296	8.3	21.0
6 20	15 31.18	-14 37.7	1.853	2.748	12.3	19.6	6 20	15 36.33	-6 6.8	2.435	3.299	10.8	21.2
6 30	15 26.01	-14 18.9	1.923	2.731	15.5	19.8	6 30	15 32.02	-6 46.2	2.526	3.301	13.1	21.4
<b>497376</b>	2005 <i>UJ</i> <sub>371</sub>		5 22.2	198°74	0°6/22.5	17	<b>52759</b>	1998 <i>MW</i> <sub>13</sub>		5 22.2	246°35	2°7/23.5	18
4 21	16 22.46	-22 45.5	2.109	2.977	11.6	22.9	4 21	16 24.28	-28 39.6	1.926	2.784	13.0	20.0
5 1	16 15.84	-22 41.3	2.032	2.974	8.3	22.7	5 1	16 17.52	-28 38.4	1.834	2.766	9.7	19.8
5 11	16 7.34	-22 30.8	1.980	2.971	4.6	22.4	5 11	16 8.45	-28 25.2	1.766	2.748	6.0	19.5
5 21	15 57.73	-22 14.6	1.955	2.967	0.8	22.2	5 21	15 57.89	-27 59.1	1.724	2.730	2.9	19.3
5 31	15 47.98	-21 54.2	1.959	2.962	3.5	22.4	5 31	15 46.98	-27 21.5	1.710	2.710	4.3	19.3
6 10	15 39.06	-21 32.6	1.991	2.957	7.3	22.6	6 10	15 36.95	-26 36.3	1.723	2.690	8.2	19.5
6 20	15 31.78	-21 12.9	2.048	2.952	10.8	22.8	6 20	15 28.81	-25 48.8	1.761	2.670	12.0	19.7
6 30	15 26.70	-20 58.2	2.127	2.946	13.8	23.0	6 30	15 23.26	-25 4.5	1.820	2.648	15.4	19.9
<b>137857</b>	2000 <i>AT</i> <sub>59</sub>		5 22.2	70°61	1°5/22.8	18 R	<b>23092</b>	1999 <i>X7</i> <sub>136</sub>		5 22.2	223°98	2°8/20.9	18 R
4 21	16 23.34	-24 46.6	1.470	2.350	15.0	19.3	4 21	16 20.80	-12 16.1	2.279	3.152	10.7	19.0
5 1	16 16.85	-24 42.1	1.418	2.365	10.8	19.1	5 1	16 14.51	-12 2.1	2.199	3.143	7.7	18.7
5 11	16 7.97	-24 27.5	1.389	2.380	6.1	18.9	5 11	16 6.59	-11 49.8	2.145	3.133	4.6	18.5
5 21	15 57.80	-24 3.3	1.384	2.395	1.7	18.6	5 21	15 57.69	-11 41.0	2.119	3.123	2.8	18.4
5 31	15 47.69	-23 32.5	1.405	2.409	4.4	18.8	5 31	15 48.61	-11 37.8	2.121	3.113	4.7	18.5
6 10	15 38.97	-22 59.8	1.452	2.424	8.9	19.1	6 10	15 40.21	-11 41.7	2.151	3.102	7.9	18.7
6 20	15 32.56	-22 30.0	1.521	2.439	13.0	19.4	6 20	15 33.19	-11 53.8	2.207	3.090	11.0	18.9
6 30	15 29.00	-22 7.2	1.611	2.454	16.4	19.7	6 30	15 28.08	-12 14.5	2.284	3.078	13.7	19.0
<b>293732</b>	2007 <i>RL</i> <sub>28</sub>		5 22.2	315°81	6°6/19.9	17	<b>215579</b>	2003 <i>FY</i> <sub>88</sub>		5 22.2	42°03	4°5/19.4	18
4 21	16 19.52	-8 54.0	1.143	2.047	16.5	20.4	4 21	16 16.79	-8 56.7	2.157	3.037	10.9	20.1
5 1	16 14.87	-8 11.7	1.071	2.026	12.5	20.1	5 1	16 11.62	-8 3.5	2.095	3.038	8.1	19.9
5 11	16 7.30	-7 35.3	1.018	2.006	8.4	19.8	5 11	16 4.97	-7 13.7	2.059	3.040	5.5	19.7
5 21	15 57.76	-7 11.1	0.988	1.987	6.6	19.7	5 21	15 57.51	-6 31.2	2.049	3.041	4.5	19.7
5 31	15 47.71	-7 4.9	0.980	1.968	9.3	19.7	5 31	15 50.01	-5 59.3	2.066	3.043	6.2	19.8
6 10	15 38.76	-7 20.2	0.993	1.950	14.0	19.9	6 10	15 43.27	-5 40.4	2.110	3.045	8.9	19.9
6 20	15 32.22	-7 57.3	1.026	1.933	18.7	20.1	6 20	15 37.90	-5 35.6	2.177	3.047	11.7	20.1
6 30	15 28.99	-8 54.2	1.074	1.917	22.8	20.4	6 30	15 34.34	-5 44.4	2.265	3.048	14.2	20.3
<b>114998</b>	2003 <i>QD</i> <sub>74</sub>		5 22.2	295°72	7°3/24.9	18	<b>89621</b>	2001 <i>XR</i> <sub>194</sub>		5 22.2	263°20	6°7/18.4	18
4 21	16 24.15	-36 20.1	1.391	2.245	17.2	19.6	4 21	16 18.05	+0 13.3	2.363	3.220	10.9	19.3
5 1	16 18.42	-36 51.0	1.305	2.225	13.8	19.3	5 1	16 12.48	+0 49.5	2.290	3.208	8.8	19.1
5 11	16 9.36	-37 1.1	1.239	2.205	10.3	19.0	5 11	16 5.46	+1 15.9	2.242	3.195	7.2	19.0
5 21	15 57.99	-36 45.4	1.196	2.185	7.6	18.8	5 21	15 57.57	+1 28.9	2.219	3.182	6.8	19.0
5 31	15 46.00	-36 2.6	1.176	2.165	8.0	18.8	5 31	15 49.54	+1 25.9	2.224	3.169	7.9	19.0
6 10	15 35.27	-34 57.9	1.180	2.145	11.3	18.9	6 10	15 42.14	+1 6.1	2.254	3.156	10.0	19.1
6 20	15 27.31	-33 40.2	1.205	2.126	15.4	19.1	6 20	15 35.98	+0 30.2	2.307	3.142	12.3	19.2
6 30	15 23.08	-32 20.3	1.249	2.106	19.4	19.3	6 30	15 31.54	+0 20.0	2.380	3.129	14.5	19.4
<b>442028</b>	2010 <i>PA</i> <sub>4</sub>		5 22.2	326°40	7°1/26.2	18	<b>381423</b>	2008 <i>MY</i> <sub>1</sub>		5 22.2	319°44	3°7/20.7	17
4 21	16 20.09	-40 37.3	1.935	2.759	14.3	19.9	4 21	16 18.48	-13 53.0	1.374	2.272	14.6	20.9
5 1	16 14.73	-40 53.7	1.848	2.743	11.8	19.7	5 1	16 13.77	-13 18.5	1.297	2.254	10.6	20.6
5 11	16 6.97	-40 50.1	1.782	2.727	9.3	19.6	5 11	16 6.55	-12 43.7	1.242	2.236	6.3	20.3
5 21	15 57.71	-40 23.7	1.740	2.712	7.4	19.4	5 21	15 57.70	-12 12.5	1.211	2.218	3.7	20.1
5 31	15 48.18	-39 34.5	1.723	2.698	7.4	19.4	5 31	15 48.49	-11 49.5	1.205	2.201	6.6	20.2
6 10	15 39.70	-38 26.7	1.731	2.684	9.3	19.5	6 10	15 40.26	-11 38.8	1.222	2.185	11.3	20.4
6 20	15 33.29	-37 7.1	1.762	2.671	12.0	19.6	6 20	15 34.12	-11 42.7	1.260	2.169	15.8	20.6
6 30	15 29.63	-35 43.4	1.815	2.658	14.9	19.7	6 30	15 30.84	-12 2.0	1.316	2.155	19.6	20.9
<b>119975</b>	2002 <i>VB</i> <sub>128</sub>		5 22.2	37°36	8°1/27.1	18 R	<b>90453</b>	2004 <i>CM</i>		5 22.2	280°99	4°7/20.0	17
4 21	16 27.91	-41 55.1	1.037	1.889	22.0	18.0	4 21	16 18.90	-6 46.9	2.131	3.005	11.2	19.5
5 1	16 21.30	-41 2.2	0.974	1.890	17.8	17.8	5 1	16 13.23	-6 27.2	2.057	2.996	8.5	19.3
5 11	16 10.75	-39 26.8	0.928	1.892	13.1	17.5	5 11	16 5.92	-6 13.7	2.007	2.986	5.8	19.2
5 21	15 58.10	-37 6.9	0.903	1.894	9.0	17.3	5 21	15 57.63	-6 9.0	1.984	2.976	4.8	19.1
5 31	15 45.72	-34 10.4	0.901	1.896	8.5	17.2	5 31	15 49.17	-6 15.5	1.988	2.966	6.3	19.1
6 10	15 35.81	-30 55.7	0.922	1.899	12.1	17.4	6 10	15 41.42	-6 34.1	2.019	2.957	9.1	19.3
6 20	15 29.62	-27 44.0	0.966	1.901	16.9	17.7	6 20	15 35.06	-7 4.9	2.074	2.947	12.1	19.5
6 30	15 27.62	-24 52.3	1.029	1.904	21.3	18.0	6 30	15 30.62	-7 46.8	2.149	2.937	14.7	19.6
<b>507603</b>	2013 <i>CW</i> <sub>25</sub>		5 22.2	112°48	2°4/20.7	18	<b>466076</b>	2011 <i>YT</i> <sub>49</sub>		5 22.2	143°02</		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>134151</b>	2005 <i>AL</i> <sub>58</sub>		5 22.2 324°00	3°6/20.8	17		<b>519021</b>	2010 <i>JH</i> <sub>132</sub>		5 22.2 236°57	7°5/16.5	18	
4 21	16 19.59	-11 44.7	1.685	2.572	13.0	19.2	4 21	16 17.85	+ 8 42.7	3.115	3.931	9.6	22.6
5 1	16 14.08	-11 29.9	1.614	2.564	9.5	19.0	5 1	16 12.08	+ 9 21.9	3.043	3.915	8.4	22.5
5 11	16 6.52	-11 18.2	1.567	2.557	5.7	18.8	5 11	16 5.17	+ 9 49.2	2.995	3.898	7.6	22.4
5 21	15 57.70	-11 12.4	1.545	2.550	3.6	18.6	5 21	15 57.60	+10 1.4	2.973	3.881	7.5	22.4
5 31	15 48.68	-11 14.8	1.550	2.543	5.9	18.7	5 31	15 49.92	+ 9 56.6	2.977	3.864	8.3	22.4
6 10	15 40.56	-11 27.3	1.580	2.536	9.7	18.9	6 10	15 42.72	+ 9 34.2	3.007	3.845	9.7	22.4
6 20	15 34.22	-11 50.6	1.632	2.530	13.4	19.2	6 20	15 36.49	+ 8 55.4	3.059	3.827	11.2	22.5
6 30	15 30.28	-12 24.6	1.705	2.525	16.7	19.4	6 30	15 31.61	+ 8 2.1	3.131	3.808	12.6	22.6
<b>273935</b>	2007 <i>JS</i> <sub>14</sub>		5 22.2 295°07	3°4/22.9	16		<b>215853</b>	2005 <i>EB</i> <sub>29</sub>		5 22.2 31°94	0°7/22.4	18	
4 21	16 24.90	-26 39.8	1.712	2.579	13.9	20.5	4 21	16 21.97	-21 56.4	1.183	2.080	16.6	19.4
5 1	16 18.43	-27 33.1	1.617	2.554	10.4	20.2	5 1	16 16.36	-22 3.3	1.133	2.089	11.9	19.2
5 11	16 9.22	-28 20.0	1.546	2.530	6.6	20.0	5 11	16 7.94	-22 2.7	1.104	2.099	6.6	18.9
5 21	15 58.03	-28 57.2	1.500	2.505	3.6	19.7	5 21	15 57.91	-21 55.1	1.097	2.109	1.1	18.6
5 31	15 46.11	-29 22.7	1.481	2.480	5.2	19.8	5 31	15 47.85	-21 42.8	1.115	2.120	4.9	18.9
6 10	15 34.92	-29 37.3	1.489	2.456	9.3	19.9	6 10	15 39.33	-21 30.1	1.156	2.132	10.2	19.2
6 20	15 25.73	-29 44.0	1.520	2.431	13.5	20.1	6 20	15 33.42	-21 21.2	1.218	2.144	14.8	19.5
6 30	15 19.50	-29 47.8	1.572	2.407	17.1	20.3	6 30	15 30.75	-21 19.4	1.298	2.157	18.7	19.8
<b>339380</b>	2005 <i>AR</i> <sub>76</sub>		5 22.2 152°55	1°3/23.5	18		<b>118026</b>	2151 <i>T</i> <sub>-2</sub>		5 22.2 233°92	1°3/23.1	18	
4 21	16 12.43	-27 48.9	4.462	5.310	6.3	21.5	4 21	16 19.49	-26 4.3	3.041	3.893	8.9	20.2
5 1	16 8.06	-27 47.9	4.383	5.311	4.7	21.3	5 1	16 13.41	-26 0.0	2.945	3.877	6.5	20.0
5 11	16 2.90	-27 42.0	4.331	5.312	2.9	21.2	5 11	16 5.97	-25 49.1	2.876	3.861	3.8	19.8
5 21	15 57.31	-27 31.7	4.308	5.313	1.4	21.1	5 21	15 57.70	-25 31.8	2.835	3.844	1.5	19.6
5 31	15 51.67	-27 17.5	4.314	5.314	2.0	21.1	5 31	15 49.26	-25 9.2	2.824	3.826	2.7	19.7
6 10	15 46.39	-27 0.7	4.350	5.315	3.8	21.3	6 10	15 41.35	-24 43.3	2.843	3.807	5.5	19.8
6 20	15 41.81	-26 42.7	4.413	5.316	5.5	21.4	6 20	15 34.54	-24 16.7	2.888	3.788	8.2	20.0
6 30	15 38.23	-26 25.1	4.501	5.316	7.1	21.5	6 30	15 29.29	-23 51.9	2.958	3.769	10.5	20.1
<b>468407</b>	2016 <i>GP</i> <sub>165</sub>		5 22.2 236°61	1°7/22.8	17		<b>51370</b>	2000 <i>WS</i> <sub>165</sub>		5 22.2 25°74	14°6/11.9	18	
4 21	16 24.32	-24 11.7	1.655	2.529	13.9	21.2	4 21	16 17.78	+ 5 9.9	1.215	2.092	17.7	17.6
5 1	16 17.70	-24 28.1	1.579	2.522	10.2	21.0	5 1	16 13.02	+ 8 14.3	1.184	2.097	15.6	17.5
5 11	16 8.60	-24 36.8	1.526	2.516	5.9	20.7	5 11	16 5.97	+10 55.5	1.175	2.103	14.6	17.5
5 21	15 57.95	-24 36.9	1.499	2.509	1.9	20.4	5 21	15 57.69	+13 0.1	1.188	2.109	15.2	17.5
5 31	15 46.98	-24 29.2	1.498	2.502	4.3	20.6	5 31	15 49.49	+14 19.5	1.221	2.116	17.0	17.7
6 10	15 37.06	-24 16.9	1.524	2.494	8.8	20.8	6 10	15 42.60	+14 52.3	1.272	2.123	19.4	17.8
6 20	15 29.22	-24 3.7	1.574	2.486	13.0	21.0	6 20	15 37.90	+14 42.7	1.338	2.131	21.7	18.0
6 30	15 24.20	-23 54.0	1.643	2.479	16.5	21.2	6 30	15 35.89	+13 58.0	1.417	2.140	23.7	18.2
<b>162155</b>	1999 <i>BV</i> <sub>7</sub>		5 22.2 191°39	0°1/22.2	18		<b>423583</b>	2005 <i>VJ</i> <sub>94</sub>		5 22.2 101°35	1°1/22.9	15	
4 21	16 20.10	-21 16.5	2.698	3.563	9.5	20.8	4 21	16 23.24	-26 5.9	1.983	2.847	12.4	21.6
5 1	16 13.83	-21 7.8	2.620	3.561	6.8	20.7	5 1	16 16.21	-25 27.0	1.930	2.869	8.9	21.4
5 11	16 6.16	-20 54.8	2.567	3.559	3.7	20.5	5 11	16 7.45	-24 38.0	1.903	2.892	5.0	21.2
5 21	15 57.68	-20 38.2	2.544	3.556	0.4	20.2	5 21	15 57.85	-23 40.7	1.903	2.914	1.3	21.0
5 31	15 49.10	-20 19.7	2.550	3.552	2.9	20.4	5 31	15 48.45	-22 39.2	1.932	2.935	3.5	21.2
6 10	15 41.16	-20 1.3	2.585	3.548	6.1	20.6	6 10	15 40.19	-21 38.2	1.989	2.956	7.3	21.5
6 20	15 34.45	-19 45.2	2.646	3.543	8.9	20.8	6 20	15 33.77	-20 42.5	2.071	2.977	10.6	21.7
6 30	15 29.45	-19 33.5	2.731	3.538	11.4	20.9	6 30	15 29.60	-19 55.7	2.175	2.996	13.5	22.0
<b>366263</b>	2013 <i>AV</i> <sub>21</sub>		5 22.2 123°68	4°2/25.1	18		<b>36907</b>	2000 <i>SX</i> <sub>181</sub>		5 22.2 295°81	8°9/18.3	18	
4 21	16 21.98	-36 4.5	2.803	3.623	10.5	22.2	4 21	16 20.05	+ 0 15.1	1.641	2.512	14.2	18.5
5 1	16 15.18	-36 16.0	2.738	3.639	8.2	22.1	5 1	16 14.52	+ 1 5.1	1.567	2.493	11.6	18.3
5 11	16 6.87	-36 15.1	2.698	3.654	5.9	21.9	5 11	16 6.85	+ 1 42.1	1.516	2.474	9.5	18.1
5 21	15 57.75	-36 1.0	2.685	3.669	4.3	21.9	5 21	15 57.82	+ 2 0.2	1.488	2.455	9.0	18.0
5 31	15 48.64	-35 34.4	2.701	3.684	4.5	21.9	5 31	15 48.49	+ 1 55.0	1.484	2.436	10.6	18.1
6 10	15 40.35	-34 58.1	2.745	3.698	6.3	22.0	6 10	15 40.00	+ 1 25.1	1.504	2.417	13.4	18.2
6 20	15 33.52	-34 16.0	2.815	3.712	8.5	22.2	6 20	15 33.27	+ 0 32.1	1.545	2.399	16.4	18.3
6 30	15 28.60	-33 32.1	2.909	3.725	10.6	22.3	6 30	15 28.97	- 0 40.7	1.603	2.380	19.3	18.5
<b>7468</b>	Anfimov		5 22.2 219°72	0°1/22.2	18		<b>250546</b>	2004 <i>RX</i> <sub>71</sub>		5 22.2 316°56	6°3/24.4	18	
4 21	16 19.20	-21 9.0	2.496	3.365	10.0	17.6	4 21	16 23.31	-36 31.3	2.095	2.926	13.1	19.9
5 1	16 13.33	-21 3.7	2.416	3.359	7.1	17.4	5 1	16 17.01	-37 33.4	2.010	2.913	10.6	19.7
5 11	16 5.94	-20 54.2	2.361	3.353	3.9	17.2	5 11	16 8.31	-38 22.3	1.948	2.901	8.1	19.5
5 21	15 57.66	-20 41.2	2.335	3.347	0.4	16.9	5 21	15 58.00	-38 54.3	1.912	2.889	6.5	19.4
5 31	15 49.25	-20 26.2	2.337	3.340	3.1	17.1	5 31	15 47.21	-39 7.3	1.902	2.877	6.8	19.4
6 10	15 41.49	-20 11.3	2.368	3.333	6.4	17.3	6 10	15 37.22	-39 2.9	1.918	2.866	8.9	19.5
6 20	15 35.03	-19 58.7	2.425	3.326	9.5	17.5	6 20	15 29.09	-38 45.2	1.958	2.854	11.6	19.6
6 30	15 30.36	-19 50.7	2.504	3.319	12.1	17.6	6 30	15 23.61	-38 19.7	2.019	2.844	14.3	19.8
<b>375265</b>	2008 <i>GJ</i> <sub>141</sub>		5 22.2 341°94	0°5/22.6	18		<b>391748</b>	2008 <i>DK</i> <sub>28</sub>		5 22.2 142°55	8°7/16.3	17	
4 21	16 14.66	-22 16.6	4.144	5.003	6.6	20.4	4 21	16 17.50	+ 8 46.9	2.570	3.395	11.2	21.3
5 1	16 9.68	-22 34.7	4.064	5.001	4.7	20.2	5 1	16 11.91	+ 9 44.7	2.525	3.402	9.7	21.2
5 11	16 3.81	-22 50.2	4.011	5.000	2.6	20.1	5 11	16 5.08	+10 27.8	2.504	3.409	8.8	21.2
5 21	15 57.43	-23 3.1	3.988	4.999	0.6	19.9	5 21	15 57.62	+10 52.5	2.508	3.415	8.8	21.2
5 31	15 50.96	-23 13.9	3.996	4.998	1.9	20.0	5 31	15 50.17	+10 56.5	2.537	3.421	9.6	21.2
6 10	15 44.85	-23 23.3	4.033	4.997	4.1	20.2	6 10	15 43.39	+10 39.7	2.589	3.427	11.0	21.3
6 20	15 39.47	-23 32.1	4.097	4.996	6.0	20.3	6 20	15 37.80	+10 3.9	2.663	3.433	12.6	21.5
6 30	15 35.14	-23 41.4	4.187	4.995	7.7	20.5	6 30	15 33.80	+ 9 11.7	2.755	3.438	14.0	21.6
<b>467197</b>	2016 <i>EE</i> <sub>133</sub>		5 22.2 324°65	4°8/23.8	17		<b>376533</b>	2012 <i>SF</i> <sub>41</sub>					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>300957</b>	2008 <i>DN</i> <sub>11</sub>		5 22.2 202°50	3°8/24.4	17		<b>8359</b>	1989 <i>WD</i>		5 22.2 43°55	0°2/22.2	18	R
4 21	16 21.05	-33 17.0	2.468	3.306	11.1	21.4	4 21	16 24.27	-19 4.6	1.339	2.229	15.5	16.5
5 1	16 14.80	-33 26.6	2.389	3.304	8.6	21.2	5 1	16 17.87	-19 24.1	1.280	2.234	11.1	16.3
5 11	16 6.82	-33 24.1	2.333	3.301	5.9	21.0	5 11	16 8.78	-19 40.7	1.244	2.239	6.0	16.0
5 21	15 57.82	-33 8.8	2.304	3.298	4.0	20.9	5 21	15 58.09	-19 54.3	1.232	2.244	0.7	15.6
5 31	15 48.69	-32 41.3	2.304	3.295	4.4	20.9	5 31	15 47.24	-20 5.7	1.246	2.250	4.8	15.9
6 10	15 40.35	-32 4.7	2.331	3.292	6.8	21.0	6 10	15 37.72	-20 17.3	1.284	2.256	9.9	16.3
6 20	15 33.53	-31 22.8	2.384	3.288	9.5	21.2	6 20	15 30.63	-20 31.5	1.344	2.262	14.4	16.5
6 30	15 28.77	-30 40.2	2.460	3.284	12.0	21.4	6 30	15 26.63	-20 50.7	1.423	2.268	18.1	16.8
<b>466576</b>	2014 <i>UR</i> <sub>27</sub>		5 22.2 50°18	3°9/20.5	17		<b>76501</b>	2000 <i>GH</i> <sub>25</sub>		5 22.2 167°51	0°7/22.6	18	
4 21	16 20.63	-13 57.2	1.421	2.315	14.5	20.7	4 21	16 20.20	-23 24.2	2.090	2.961	11.6	19.8
5 1	16 14.96	-13 4.3	1.365	2.320	10.4	20.5	5 1	16 14.27	-23 15.7	2.019	2.962	8.3	19.6
5 11	16 7.03	-12 11.1	1.332	2.324	6.2	20.2	5 11	16 6.57	-23 0.5	1.972	2.963	4.6	19.3
5 21	15 57.84	-11 22.3	1.324	2.329	3.9	20.1	5 21	15 57.85	-22 39.2	1.952	2.964	1.0	19.1
5 31	15 48.63	-10 43.1	1.340	2.334	6.6	20.3	5 31	15 49.03	-22 13.9	1.961	2.964	3.4	19.3
6 10	15 40.63	-10 17.7	1.381	2.339	10.8	20.5	6 10	15 41.06	-21 47.6	1.996	2.965	7.2	19.5
6 20	15 34.74	-10 8.1	1.444	2.344	14.8	20.8	6 20	15 34.69	-21 23.6	2.057	2.965	10.6	19.7
6 30	15 31.54	-10 14.6	1.525	2.349	18.1	21.0	6 30	15 30.44	-21 4.8	2.140	2.965	13.5	19.9
<b>225817</b>	2001 <i>WJ</i> <sub>32</sub>		5 22.2 247°31	1°0/21.7	18		<b>196756</b>	2003 <i>SU</i> <sub>154</sub>		5 22.2 128°04	18°5/26.8	18	
4 21	16 21.69	-18 51.0	1.950	2.827	12.0	21.4	4 21	16 45.85	-52 0.8	1.148	1.930	24.5	21.0
5 1	16 15.51	-18 29.5	1.865	2.812	8.6	21.2	5 1	16 36.69	-54 49.0	1.100	1.938	22.1	20.8
5 11	16 7.32	-18 3.6	1.804	2.797	4.7	20.9	5 11	16 20.73	-57 2.0	1.069	1.946	20.0	20.7
5 21	15 57.89	-17 35.1	1.770	2.782	1.1	20.6	5 21	15 59.53	-58 21.7	1.056	1.954	18.7	20.6
5 31	15 48.19	-17 6.6	1.765	2.766	4.2	20.8	5 31	15 36.84	-58 37.8	1.060	1.961	18.6	20.6
6 10	15 39.29	-16 41.4	1.786	2.749	8.3	21.0	6 10	15 17.25	-57 55.5	1.083	1.968	19.6	20.7
6 20	15 32.04	-16 22.7	1.832	2.732	12.1	21.2	6 20	15 3.84	-56 31.7	1.123	1.974	21.5	20.9
6 30	15 27.07	-16 12.9	1.899	2.715	15.3	21.4	6 30	14 57.69	-54 46.6	1.177	1.980	23.6	21.0
<b>238450</b>	2004 <i>PK</i> <sub>100</sub>		5 22.2 228°01	6°2/18.0	18		<b>246110</b>	2007 <i>FP</i> <sub>41</sub>		5 22.2 163°73	4°2/23.9	17	
4 21	16 19.63	- 2 11.2	2.433	3.292	10.6	22.0	4 21	16 24.50	-31 17.0	1.872	2.724	13.5	20.7
5 1	16 13.61	- 1 11.3	2.356	3.278	8.4	21.8	5 1	16 17.68	-31 42.9	1.801	2.726	10.3	20.5
5 11	16 6.12	- 0 18.3	2.305	3.264	6.7	21.7	5 11	16 8.57	-31 56.0	1.753	2.728	6.9	20.3
5 21	15 57.77	+ 0 23.8	2.282	3.249	6.3	21.6	5 21	15 58.08	-31 54.3	1.731	2.730	4.4	20.2
5 31	15 49.26	+ 0 51.4	2.286	3.233	7.6	21.7	5 31	15 47.40	-31 38.2	1.736	2.731	5.1	20.2
6 10	15 41.37	+ 1 2.5	2.316	3.216	9.9	21.8	6 10	15 37.78	-31 11.1	1.768	2.733	8.3	20.4
6 20	15 34.71	+ 0 56.9	2.369	3.199	12.3	21.9	6 20	15 30.19	-30 37.9	1.824	2.734	11.6	20.6
6 30	15 29.77	+ 0 35.5	2.443	3.180	14.4	22.1	6 30	15 25.27	-30 4.2	1.902	2.734	14.7	20.8
<b>505508</b>	2013 <i>WX</i> <sub>103</sub>		5 22.2 220°71	1°0/22.8	18		<b>499614</b>	2010 <i>US</i> <sub>24</sub>		5 22.2 275°72	0°4/22.1	17	
4 21	16 22.42	-24 58.5	2.446	3.304	10.6	23.0	4 21	16 22.73	-20 50.3	1.564	2.448	14.1	22.1
5 1	16 15.72	-24 42.3	2.356	3.292	7.7	22.8	5 1	16 16.78	-20 32.6	1.476	2.427	10.2	21.8
5 11	16 7.32	-24 18.1	2.292	3.280	4.4	22.6	5 11	16 8.27	-20 7.8	1.411	2.405	5.6	21.5
5 21	15 57.90	-23 46.6	2.256	3.266	1.2	22.3	5 21	15 58.06	-19 37.2	1.372	2.384	0.7	21.1
5 31	15 48.30	-23 9.6	2.249	3.252	3.2	22.4	5 31	15 47.40	-19 3.6	1.358	2.362	4.7	21.3
6 10	15 39.41	-22 30.2	2.271	3.237	6.7	22.6	6 10	15 37.65	-18 31.7	1.370	2.339	9.7	21.6
6 20	15 31.95	-21 52.0	2.320	3.221	9.9	22.8	6 20	15 29.95	-18 5.9	1.405	2.317	14.3	21.8
6 30	15 26.46	-21 18.5	2.392	3.204	12.7	23.0	6 30	15 25.10	-17 50.1	1.459	2.294	18.2	22.0
<b>411710</b>	2012 <i>AQ</i> <sub>2</sub>		5 22.2 155°85	0°2/22.1	16		<b>193548</b>	2000 <i>YD</i> <sub>121</sub>		5 22.2 190°62	0°1/22.3	18	
4 21	16 24.63	-21 18.2	1.883	2.755	12.6	22.9	4 21	16 21.25	-22 5.9	2.552	3.415	10.0	21.6
5 1	16 17.43	-20 55.8	1.819	2.763	9.0	22.7	5 1	16 14.74	-21 45.1	2.473	3.413	7.1	21.5
5 11	16 8.26	-20 27.0	1.779	2.771	4.9	22.5	5 11	16 6.73	-21 18.6	2.420	3.411	3.9	21.2
5 21	15 58.00	-19 53.3	1.767	2.779	0.5	22.2	5 21	15 57.87	-20 47.7	2.396	3.408	0.5	21.0
5 31	15 47.73	-19 17.8	1.783	2.785	3.9	22.4	5 31	15 48.93	-20 14.4	2.402	3.404	3.0	21.2
6 10	15 38.52	-18 44.2	1.826	2.791	8.0	22.7	6 10	15 40.69	-19 41.5	2.437	3.400	6.4	21.4
6 20	15 31.19	-18 16.1	1.894	2.796	11.7	22.9	6 20	15 33.80	-19 11.8	2.498	3.395	9.4	21.6
6 30	15 26.26	-17 56.4	1.984	2.800	14.8	23.1	6 30	15 28.72	-18 47.8	2.582	3.389	12.0	21.7
<b>259281</b>	2003 <i>EL</i>		5 22.2 120°90	4°3/19.7	18		<b>199603</b>	2006 <i>FN</i> <sub>25</sub>		5 22.2 73°59	5°4/18.9	18	
4 21	16 21.66	-10 9.0	2.045	2.920	11.6	21.0	4 21	16 18.41	- 9 6.2	1.815	2.699	12.4	20.1
5 1	16 15.00	- 9 9.1	1.998	2.939	8.5	20.8	5 1	16 12.98	- 7 46.3	1.760	2.705	9.2	19.9
5 11	16 6.80	- 8 12.2	1.975	2.958	5.5	20.7	5 11	16 5.84	- 6 29.8	1.730	2.711	6.4	19.7
5 21	15 57.83	- 7 22.4	1.980	2.976	4.4	20.6	5 21	15 57.78	- 5 22.3	1.726	2.717	5.5	19.7
5 31	15 48.99	- 6 43.4	2.014	2.993	6.2	20.8	5 31	15 49.74	- 4 28.8	1.749	2.723	7.4	19.8
6 10	15 41.10	- 6 17.8	2.074	3.009	9.1	21.0	6 10	15 42.63	- 3 52.9	1.796	2.728	10.4	20.0
6 20	15 34.80	- 6 6.4	2.158	3.025	11.9	21.2	6 20	15 37.17	- 3 35.6	1.867	2.734	13.5	20.2
6 30	15 30.52	- 6 9.0	2.263	3.040	14.4	21.4	6 30	15 33.80	- 3 36.4	1.956	2.740	16.1	20.4
<b>508162</b>	2015 <i>FY</i> <sub>171</sub>		5 22.2 279°08	2°8/20.9	17		<b>349488</b>	2008 <i>FV</i> <sub>14</sub>		5 22.2 40°96	0°2/22.1	17	
4 21	16 19.99	-13 18.7	1.891	2.773	12.1	21.4	4 21	16 18.58	-20 32.2	2.063	2.941	11.4	20.6
5 1	16 14.21	-13 1.6	1.821	2.770	8.7	21.2	5 1	16 13.08	-20 23.3	2.000	2.948	8.1	20.4
5 11	16 6.57	-12 45.8	1.775	2.766	5.1	21.0	5 11	16 5.90	-20 10.1	1.961	2.955	4.4	20.2
5 21	15 57.83	-12 33.6	1.756	2.762	2.8	20.8	5 21	15 57.79	-19 53.7	1.950	2.962	0.5	19.9
5 31	15 48.96	-12 27.2	1.764	2.759	5.1	21.0	5 31	15 49.64	-19 36.2	1.966	2.969	3.5	20.2
6 10	15 40.92	-12 28.8	1.798	2.755	8.7	21.2	6 10	15 42.34	-19 20.2	2.008	2.976	7.2	20.4
6 20	15 34.52	-12 39.6	1.857	2.752	12.2	21.4	6 20	15 36.58	-19 8.2	2.076	2.984	10.5	20.6
6 30	15 30.30	-13 0.1	1.936	2.748	15.2	21.6	6 30	15 32.86	-19 2.2	2.166	2.992	13.4	20.8
<b>344579</b>	2003 <i>AE</i> <sub>78</sub>		5 22.2 110°36	2°2/21.2	18		<b>488555</b>	2001 <i>UJ</i> <sub>84&lt;/</sub>					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>254225</b>	2004 <i>RK</i> <sub>100</sub>		5 22.2 282°99	1.3/22.9	16		<b>507058</b>	2008 <i>VY</i> <sub>61</sub>		5 22.2 264°02	0.7/22.5	17	
4 21	16 19.04	-25 20.2	2.401	3.265	10.5	21.3	4 21	16 21.70	-22 21.9	1.936	2.809	12.2	21.7
5 1	16 13.47	-25 12.1	2.303	3.241	7.7	21.1	5 1	16 15.62	-22 26.5	1.853	2.797	8.8	21.5
5 11	16 6.20	-24 56.3	2.229	3.217	4.5	20.9	5 11	16 7.47	-22 25.3	1.794	2.785	4.9	21.2
5 21	15 57.85	-24 33.2	2.183	3.193	1.5	20.6	5 21	15 58.02	-22 18.6	1.761	2.773	0.9	20.9
5 31	15 49.22	-24 4.1	2.166	3.169	3.2	20.7	5 31	15 48.29	-22 7.5	1.756	2.760	3.7	21.1
6 10	15 41.20	-23 32.0	2.176	3.144	6.7	20.9	6 10	15 39.36	-21 54.8	1.779	2.747	7.9	21.3
6 20	15 34.52	-23 0.0	2.212	3.119	10.0	21.0	6 20	15 32.13	-21 43.4	1.825	2.734	11.7	21.5
6 30	15 29.77	-22 31.7	2.271	3.095	12.9	21.2	6 30	15 27.26	-21 36.6	1.893	2.721	14.9	21.7
<b>90419</b>	2003 <i>YA</i> <sub>138</sub>		5 22.2 120°59	1.6/22.9	18		<b>393179</b>	2013 <i>CX</i> <sub>80</sub>		5 22.2 322°57	0.7/21.9	17	
4 21	16 24.73	-25 16.6	1.736	2.606	13.6	20.3	4 21	16 17.03	-20 18.4	1.994	2.877	11.5	20.3
5 1	16 17.70	-25 15.8	1.677	2.618	9.9	20.1	5 1	16 12.15	-19 48.7	1.915	2.865	8.2	20.1
5 11	16 8.50	-25 5.5	1.642	2.630	5.7	19.8	5 11	16 5.51	-19 13.4	1.859	2.853	4.5	19.8
5 21	15 58.09	-24 45.9	1.632	2.642	1.8	19.6	5 21	15 57.80	-18 34.6	1.830	2.841	0.8	19.5
5 31	15 47.69	-24 19.2	1.650	2.653	4.0	19.8	5 31	15 49.92	-17 55.3	1.828	2.830	3.8	19.7
6 10	15 38.49	-23 49.2	1.695	2.664	8.1	20.0	6 10	15 42.81	-17 19.3	1.852	2.820	7.7	19.9
6 20	15 31.35	-23 20.5	1.764	2.675	11.9	20.3	6 20	15 37.23	-16 49.8	1.901	2.809	11.3	20.1
6 30	15 26.82	-22 57.0	1.854	2.685	15.1	20.5	6 30	15 33.72	-16 29.4	1.972	2.799	14.4	20.3
<b>30508</b>	2000 <i>SZ</i> <sub>130</sub>		5 22.2 273°90	0.9/21.3	18		<b>294904</b>	2008 <i>DP</i> <sub>26</sub>		5 22.2 334°02	12.0/11.8	16	
4 21	16 11.48	-17 48.1	4.246	5.116	6.2	19.2	4 21	16 14.81	+ 8 59.5	1.846	2.691	14.0	19.7
5 1	16 7.43	-17 15.0	4.167	5.112	4.4	19.0	5 1	16 10.57	+11 5.6	1.794	2.679	12.6	19.6
5 11	16 2.64	-16 40.1	4.117	5.109	2.4	18.9	5 11	16 4.63	+12 54.2	1.765	2.667	12.0	19.5
5 21	15 57.44	-16 4.8	4.095	5.105	0.9	18.7	5 21	15 57.70	+14 17.6	1.758	2.655	12.5	19.5
5 31	15 52.22	-15 30.6	4.104	5.102	2.3	18.9	5 31	15 50.64	+15 9.8	1.774	2.644	13.8	19.5
6 10	15 47.36	-14 59.2	4.142	5.098	4.2	19.0	6 10	15 44.35	+15 28.9	1.809	2.634	15.6	19.6
6 20	15 43.16	-14 31.7	4.207	5.095	6.1	19.1	6 20	15 39.55	+15 16.6	1.862	2.624	17.5	19.8
6 30	15 39.92	-14 9.4	4.296	5.091	7.8	19.3	6 30	15 36.76	+14 36.7	1.930	2.615	19.2	19.9
<b>440504</b>	2005 <i>TY</i> <sub>193</sub>		5 22.2 299°31	0.3/22.4	17		<b>367117</b>	2006 <i>SD</i> <sub>74</sub>		5 22.2 237°63	3.4/20.5	17	
4 21	16 18.17	-22 55.9	2.085	2.961	11.4	21.3	4 21	16 21.90	-13 11.3	1.877	2.756	12.3	22.3
5 1	16 12.97	-22 34.2	1.998	2.944	8.2	21.0	5 1	16 15.68	-12 26.8	1.796	2.743	8.9	22.1
5 11	16 5.96	-22 5.2	1.934	2.926	4.6	20.8	5 11	16 7.46	-11 41.7	1.740	2.729	5.4	21.8
5 21	15 57.83	-21 30.0	1.897	2.909	0.7	20.4	5 21	15 58.03	-10 59.5	1.711	2.715	3.5	21.7
5 31	15 49.48	-20 51.3	1.888	2.892	3.5	20.6	5 31	15 48.36	-10 24.2	1.710	2.700	5.8	21.8
6 10	15 41.85	-20 12.6	1.906	2.875	7.4	20.8	6 10	15 39.52	- 9 59.3	1.735	2.685	9.5	22.0
6 20	15 35.74	-19 37.7	1.949	2.858	11.0	21.0	6 20	15 32.34	- 9 47.2	1.783	2.668	13.1	22.2
6 30	15 31.72	-19 9.7	2.013	2.842	14.2	21.2	6 30	15 27.44	- 9 48.7	1.852	2.652	16.3	22.3
<b>72366</b>	2001 <i>CO</i>		5 22.2 104°03	3.3/20.7	18		<b>312912</b>	2011 <i>UZ</i> <sub>400</sub>		5 22.2 269°19	2.1/23.2	18	
4 21	16 22.78	-14 28.4	1.542	2.429	14.0	19.4	4 21	16 20.87	-26 23.3	2.251	3.112	11.2	21.1
5 1	16 16.30	-13 40.5	1.491	2.442	10.0	19.2	5 1	16 14.84	-26 42.9	2.168	3.104	8.3	20.9
5 11	16 7.71	-12 52.2	1.464	2.455	5.8	18.9	5 11	16 6.98	-26 55.3	2.110	3.095	5.0	20.7
5 21	15 58.01	-12 7.6	1.462	2.468	3.3	18.8	5 21	15 57.97	-26 59.5	2.079	3.087	2.3	20.5
5 31	15 48.40	-11 31.0	1.487	2.480	6.0	19.0	5 31	15 48.73	-26 56.1	2.077	3.078	3.6	20.6
6 10	15 40.01	-11 6.3	1.536	2.493	10.0	19.3	6 10	15 40.20	-26 47.1	2.102	3.069	6.9	20.8
6 20	15 33.69	-10 55.4	1.609	2.504	13.8	19.5	6 20	15 33.19	-26 35.4	2.152	3.060	10.2	20.9
6 30	15 29.92	-10 58.6	1.701	2.516	16.9	19.8	6 30	15 28.27	-26 24.2	2.225	3.051	13.0	21.1
<b>513528</b>	2010 <i>AH</i> <sub>61</sub>		5 22.2 123°51	0.9/23.1	18		<b>461686</b>	2005 <i>MV</i> <sub>19</sub>		5 22.2 328°57	10.8/18.8	17	
4 21	16 15.43	-26 1.8	3.579	4.433	7.6	21.4	4 21	16 18.48	+ 0 7.9	1.154	2.046	17.4	20.2
5 1	16 10.29	-25 38.8	3.511	4.445	5.5	21.3	5 1	16 14.17	+ 0 54.6	1.084	2.022	14.2	19.9
5 11	16 4.20	-25 10.1	3.470	4.456	3.2	21.2	5 11	16 7.03	+ 1 23.5	1.032	2.000	11.6	19.7
5 21	15 57.62	-24 36.7	3.458	4.467	1.0	21.0	5 21	15 58.00	+ 1 26.4	1.002	1.978	10.9	19.6
5 31	15 51.07	-24 0.0	3.476	4.478	2.2	21.1	5 31	15 48.45	+ 0 57.3	0.992	1.957	12.8	19.6
6 10	15 45.03	-23 22.3	3.523	4.489	4.5	21.3	6 10	15 39.93	- 0 4.9	1.003	1.938	16.2	19.7
6 20	15 39.93	-22 45.6	3.598	4.499	6.7	21.4	6 20	15 33.70	- 1 36.3	1.031	1.921	20.1	19.9
6 30	15 36.08	-22 12.1	3.697	4.510	8.6	21.6	6 30	15 30.65	- 3 30.9	1.076	1.904	23.8	20.1
<b>302371</b>	2002 <i>CQ</i> <sub>21</sub>		5 22.2 158°50	3.6/19.9	18		<b>196728</b>	2003 <i>SH</i> <sub>119</sub>		5 22.2 178°41	3.4/19.9	18	
4 21	16 17.67	- 8 41.8	2.665	3.535	9.4	21.4	4 21	16 19.13	-11 24.8	2.546	3.417	9.7	21.3
5 1	16 12.08	- 8 10.9	2.601	3.540	6.9	21.2	5 1	16 13.16	-10 29.6	2.478	3.419	7.1	21.2
5 11	16 5.25	- 7 43.5	2.564	3.544	4.6	21.1	5 11	16 5.86	- 9 35.3	2.436	3.421	4.5	21.0
5 21	15 57.74	- 7 21.9	2.555	3.549	3.6	21.0	5 21	15 57.84	- 8 45.0	2.424	3.421	3.4	20.9
5 31	15 50.22	- 7 8.3	2.574	3.552	5.0	21.1	5 31	15 49.79	- 8 2.0	2.440	3.422	5.0	21.0
6 10	15 43.31	- 7 4.2	2.621	3.556	7.4	21.3	6 10	15 42.42	- 7 28.9	2.484	3.421	7.7	21.2
6 20	15 37.55	- 7 9.9	2.693	3.559	9.8	21.4	6 20	15 36.28	- 7 7.2	2.554	3.420	10.3	21.4
6 30	15 33.32	- 7 25.5	2.787	3.562	12.0	21.6	6 30	15 31.80	- 6 57.6	2.645	3.418	12.6	21.5
<b>352097</b>	2006 <i>YN</i> <sub>26</sub>		5 22.2 156°46	0.1/22.3	17		<b>407704</b>	2011 <i>UW</i> <sub>149</sub>		5 22.2 130°36	1.3/21.8	17	
4 21	16 18.79	-21 20.1	2.612	3.479	9.6	21.8	4 21	16 25.19	-17 12.5	1.438	2.324	14.9	21.2
5 1	16 12.97	-21 12.6	2.541	3.484	6.9	21.6	5 1	16 18.39	-17 16.3	1.377	2.329	10.6	20.9
5 11	16 5.78	-21 0.8	2.496	3.487	3.7	21.4	5 11	16 9.05	-17 18.5	1.339	2.333	5.8	20.6
5 21	15 57.81	-20 45.8	2.479	3.491	0.4	21.2	5 21	15 58.21	-17 20.1	1.326	2.337	1.4	20.3
5 31	15 49.78	-20 28.8	2.492	3.494	2.9	21.4	5 31	15 47.23	-17 22.8	1.339	2.341	5.0	20.6
6 10	15 42.42	-20 12.2	2.532	3.498	6.1	21.6	6 10	15 37.51	-17 29.1	1.377	2.345	9.8	20.9
6 20	15 36.31	-19 58.0	2.599	3.500	8.9	21.8	6 20	15 30.07	-17 41.1	1.438	2.348	14.1	21.1
6 30	15 31.89	-19 48.3	2.689	3.503	11.4	22.0	6 30	15 25.57	-18 0.5	1.518	2.351	17.7	21.4
<b>153659</b>	2001 <i>TC</i> <sub>140</sub>		5 22.2 174°29	0.7/21.9	18		<b>131615</b>	2001 <					



EPHEMERIDES

5 22.2

5 22.3

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>106082</b>	2000 <i>SP</i> <sub>350</sub>		5 22.2 273°19	8°0/17.3	17		<b>506723</b>	2006 <i>UQ</i> <sub>250</sub>		5 22.3 112°15	0°1/22.3	17	
4 21	16 17.69	+ 3 8.2	2.263	3.115	11.5	19.5	4 21	16 19.41	-21 19.6	2.376	3.246	10.4	22.1
5 1	16 12.36	+ 4 0.8	2.194	3.102	9.6	19.4	5 1	16 13.49	-21 8.3	2.313	3.257	7.4	21.9
5 11	16 5.53	+ 4 41.6	2.149	3.088	8.3	19.3	5 11	16 6.09	-20 52.4	2.275	3.267	4.0	21.7
5 21	15 57.82	+ 5 6.2	2.130	3.075	8.1	19.2	5 21	15 57.89	-20 33.0	2.265	3.277	0.5	21.4
5 31	15 49.97	+ 5 11.5	2.135	3.062	9.2	19.3	5 31	15 49.68	-20 11.9	2.284	3.287	3.1	21.7
6 10	15 42.76	+ 4 56.4	2.165	3.048	11.2	19.4	6 10	15 42.25	-19 51.6	2.331	3.297	6.5	21.9
6 20	15 36.83	+ 4 21.8	2.217	3.035	13.4	19.5	6 20	15 36.21	-19 34.5	2.404	3.307	9.5	22.1
6 30	15 32.67	+ 3 30.2	2.288	3.021	15.4	19.6	6 30	15 32.01	-19 22.7	2.499	3.316	12.1	22.3
<b>406804</b>	2008 <i>UY</i> <sub>66</sub>		5 22.2 150°64	2°9/23.3	16		<b>397783</b>	2008 <i>HJ</i> <sub>38</sub>		5 22.3 358°25	0°5/21.9	16	
4 21	16 27.15	-27 28.9	1.559	2.426	15.0	22.2	4 21	16 17.25	-20 37.7	1.998	2.879	11.5	20.9
5 1	16 19.79	-27 42.8	1.495	2.433	11.1	22.0	5 1	16 12.25	-20 10.9	1.928	2.878	8.2	20.7
5 11	16 9.81	-27 44.8	1.454	2.439	6.8	21.8	5 11	16 5.53	-19 38.7	1.883	2.877	4.4	20.5
5 21	15 58.30	-27 33.5	1.438	2.445	3.1	21.5	5 21	15 57.83	-19 3.1	1.865	2.876	0.6	20.2
5 31	15 46.67	-27 10.3	1.448	2.450	4.8	21.7	5 31	15 50.06	-18 27.1	1.873	2.876	3.7	20.4
6 10	15 36.36	-26 39.7	1.485	2.455	9.0	21.9	6 10	15 43.12	-17 54.2	1.909	2.876	7.5	20.6
6 20	15 28.44	-26 7.1	1.545	2.459	13.1	22.2	6 20	15 37.72	-17 27.4	1.969	2.877	11.0	20.9
6 30	15 23.54	-25 38.2	1.625	2.462	16.6	22.4	6 30	15 34.38	-17 9.1	2.050	2.878	13.9	21.1
<b>502735</b>	2015 <i>DG</i> <sub>36</sub>		5 22.2 132°76	5°8/19.1	17		<b>285662</b>	2000 <i>SA</i> <sub>69</sub>		5 22.3 159°50	4°1/24.8	17	
4 21	16 20.85	- 4 11.0	2.162	3.028	11.4	22.0	4 21	16 22.44	-35 27.8	2.928	3.748	10.1	21.5
5 1	16 14.45	- 3 21.2	2.112	3.042	8.8	21.8	5 1	16 15.64	-35 52.7	2.853	3.754	7.9	21.3
5 11	16 6.57	- 2 39.1	2.088	3.056	6.6	21.7	5 11	16 7.29	-36 6.5	2.804	3.760	5.8	21.2
5 21	15 57.93	- 2 8.4	2.090	3.068	5.9	21.7	5 21	15 58.03	-36 7.8	2.782	3.765	4.3	21.1
5 31	15 49.34	- 1 51.9	2.120	3.081	7.3	21.8	5 31	15 48.67	-35 56.8	2.789	3.770	4.5	21.1
6 10	15 41.60	- 1 51.0	2.176	3.092	9.7	22.0	6 10	15 40.01	-35 35.5	2.823	3.774	6.2	21.2
6 20	15 35.33	- 2 5.3	2.255	3.103	12.1	22.2	6 20	15 32.72	-35 7.1	2.885	3.778	8.4	21.4
6 30	15 30.95	- 2 33.3	2.355	3.114	14.4	22.3	6 30	15 27.27	-34 35.5	2.970	3.782	10.5	21.5
<b>111105</b>	2001 <i>VC</i> <sub>78</sub>		5 22.2 17°33	0°3/22.4	17		<b>73243</b>	2002 <i>JK</i> <sub>36</sub>		5 22.3 14°50	1°3/21.8	18	
4 21	16 18.80	-22 24.0	1.906	2.785	12.1	19.4	4 21	16 20.68	-17 8.8	1.565	2.454	13.7	18.4
5 1	16 13.41	-22 10.4	1.840	2.787	8.7	19.1	5 1	16 15.03	-17 10.1	1.503	2.456	9.8	18.2
5 11	16 6.18	-21 50.3	1.797	2.790	4.8	18.9	5 11	16 7.18	-17 10.0	1.464	2.459	5.4	17.9
5 21	15 57.89	-21 25.0	1.781	2.793	0.7	18.6	5 21	15 58.03	-17 9.8	1.450	2.462	1.4	17.7
5 31	15 49.53	-20 57.0	1.792	2.796	3.6	18.8	5 31	15 48.75	-17 11.4	1.463	2.465	4.6	17.9
6 10	15 42.09	-20 29.5	1.829	2.799	7.6	19.1	6 10	15 40.53	-17 16.9	1.500	2.469	9.1	18.2
6 20	15 36.31	-20 5.9	1.891	2.803	11.2	19.3	6 20	15 34.30	-17 28.2	1.561	2.473	13.1	18.4
6 30	15 32.75	-19 49.0	1.974	2.807	14.2	19.5	6 30	15 30.65	-17 46.7	1.641	2.478	16.5	18.6
<b>502142</b>	2015 <i>BU</i> <sub>26</sub>		5 22.2 27°23	0°7/21.9	17		<b>80336</b>	1999 <i>XY</i> <sub>97</sub>		5 22.3 235°51	0°8/22.6	18	
4 21	16 20.18	-19 53.3	1.560	2.448	13.8	21.0	4 21	16 23.96	-23 45.7	1.945	2.812	12.4	20.3
5 1	16 14.65	-19 34.2	1.499	2.452	9.8	20.8	5 1	16 17.25	-23 34.1	1.857	2.798	9.0	20.1
5 11	16 6.94	-19 9.8	1.462	2.456	5.3	20.5	5 11	16 8.40	-23 14.1	1.793	2.783	5.1	19.8
5 21	15 57.98	-18 42.3	1.449	2.461	0.8	20.2	5 21	15 58.18	-22 46.4	1.756	2.768	1.1	19.5
5 31	15 48.96	-18 14.8	1.463	2.466	4.4	20.5	5 31	15 47.67	-22 12.9	1.748	2.751	3.8	19.7
6 10	15 41.06	-17 51.2	1.502	2.472	8.9	20.8	6 10	15 38.00	-21 37.4	1.767	2.734	8.0	19.9
6 20	15 35.16	-17 34.8	1.564	2.477	13.0	21.0	6 20	15 30.10	-21 4.1	1.811	2.717	11.9	20.1
6 30	15 31.84	-17 27.8	1.645	2.483	16.4	21.2	6 30	15 24.64	-20 37.0	1.876	2.698	15.3	20.3
<b>205691</b>	2001 <i>YR</i> <sub>123</sub>		5 22.2 230°76	1°2/22.6	17		<b>347882</b>	2002 <i>TJ</i> <sub>109</sub>		5 22.3 276°18	3°4/23.5	18	
4 21	16 26.08	-22 51.4	1.567	2.443	14.5	20.8	4 21	16 23.46	-29 0.1	2.055	2.911	12.4	20.7
5 1	16 19.17	-23 9.2	1.490	2.435	10.5	20.6	5 1	16 17.04	-29 34.7	1.962	2.892	9.4	20.5
5 11	16 9.59	-23 20.4	1.436	2.427	6.0	20.3	5 11	16 8.37	-30 0.4	1.893	2.872	6.1	20.3
5 21	15 58.30	-23 24.1	1.407	2.418	1.5	20.0	5 21	15 58.19	-30 14.9	1.851	2.853	3.6	20.1
5 31	15 46.63	-23 21.0	1.406	2.409	4.5	20.1	5 31	15 47.55	-30 17.6	1.836	2.833	4.6	20.1
6 10	15 36.03	-23 14.0	1.430	2.400	9.3	20.4	6 10	15 37.63	-30 10.5	1.848	2.813	8.0	20.2
6 20	15 27.64	-23 6.8	1.477	2.390	13.7	20.6	6 20	15 29.41	-29 56.9	1.886	2.793	11.4	20.4
6 30	15 22.23	-23 3.7	1.545	2.380	17.4	20.8	6 30	15 23.66	-29 41.5	1.945	2.773	14.6	20.6
<b>163126</b>	2002 <i>BO</i> <sub>29</sub>		5 22.2 141°59	0°9/22.6	18		<b>466270</b>	2013 <i>MD</i> <sub>10</sub>		5 22.3 323°36	0°4/22.1	17	
4 21	16 26.66	-22 23.0	1.640	2.514	14.1	19.8	4 21	16 19.79	-19 58.2	1.191	2.092	16.2	20.9
5 1	16 19.24	-22 35.5	1.579	2.523	10.1	19.6	5 1	16 15.24	-19 56.0	1.115	2.074	11.7	20.5
5 11	16 9.44	-22 41.5	1.540	2.532	5.6	19.3	5 11	16 7.69	-19 48.4	1.060	2.056	6.5	20.2
5 21	15 58.27	-22 40.7	1.528	2.540	1.2	19.0	5 21	15 58.13	-19 36.5	1.027	2.039	0.8	19.7
5 31	15 47.01	-22 34.2	1.544	2.547	4.2	19.2	5 31	15 48.02	-19 22.8	1.018	2.023	5.3	20.0
6 10	15 36.96	-22 25.2	1.585	2.554	8.7	19.5	6 10	15 39.05	-19 11.6	1.031	2.007	11.1	20.3
6 20	15 29.09	-22 17.2	1.651	2.561	12.7	19.8	6 20	15 32.57	-19 6.9	1.064	1.993	16.3	20.5
6 30	15 24.01	-22 13.7	1.738	2.566	16.0	20.0	6 30	15 29.46	-19 12.2	1.115	1.980	20.7	20.7
<b>78123</b>	Dimare		5 22.3 221°45	3°7/20.6	17		<b>303958</b>	2005 <i>YB</i> <sub>132</sub>		5 22.3 351°82	3°9/23.7	17	
4 21	16 22.35	-12 13.9	1.747	2.629	12.9	20.3	4 21	16 20.64	-29 12.3	1.090	1.981	18.1	19.9
5 1	16 16.06	-11 41.6	1.676	2.623	9.4	20.0	5 1	16 15.99	-29 12.2	1.028	1.977	13.6	19.6
5 11	16 7.69	-11 10.7	1.628	2.616	5.7	19.8	5 11	16 8.08	-28 53.5	0.985	1.973	8.5	19.3
5 21	15 58.08	-10 44.5	1.606	2.610	3.7	19.7	5 21	15 58.15	-28 15.3	0.963	1.970	4.2	19.1
5 31	15 48.29	-10 26.5	1.611	2.602	6.0	19.8	5 31	15 47.97	-27 21.0	0.964	1.968	5.9	19.2
6 10	15 39.43	-10 19.3	1.643	2.595	9.8	20.0	6 10	15 39.39	-26 18.4	0.987	1.967	11.0	19.4
6 20	15 32.35	-10 24.4	1.697	2.586	13.5	20.2	6 20	15 33.70	-25 16.4	1.030	1.967	16.0	19.7
6 30	15 27.68	-10 42.1	1.772	2.578	16.7	20.4	6 30	15 31.67	-24 23.0	1.091	1.967	20.3	20.0
<b>429175</b>	2009 <i>VR</i> <sub>75</sub>		5 22.3 124°98	1°4/21.7	17		<b>312429</b>	2008 <i>GQ</i> <sub>1</sub>					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>523790</b>	2015 <i>HP</i> <sub>9</sub>		5 22.3 38°26'	0°2'/21.6	17		<b>15725</b>	1990 <i>TX</i> <sub>4</sub>		5 22.3 311°44'	2°3'/20.9	18	
4 21	16 2.86	-17 26.2	14.168	15.037	2.0	22.3	4 21	16 17.43	-16 53.3	1.878	2.764	11.9	17.8
5 1	16 1.11	-17 20.2	14.103	15.047	1.4	22.2	5 1	16 12.53	-16 2.8	1.798	2.750	8.5	17.6
5 11	15 59.17	-17 14.1	14.065	15.057	0.7	22.2	5 11	16 5.78	-15 8.3	1.743	2.736	4.8	17.3
5 21	15 57.14	-17 7.9	14.057	15.067	0.2	22.1	5 21	15 57.92	-14 13.2	1.714	2.723	2.3	17.1
5 31	15 55.09	-17 2.0	14.078	15.077	0.7	22.2	5 31	15 49.88	-13 21.7	1.713	2.710	4.9	17.2
6 10	15 53.13	-16 56.7	14.128	15.088	1.3	22.2	6 10	15 42.64	-12 38.3	1.737	2.696	8.8	17.4
6 20	15 51.35	-16 52.3	14.207	15.098	1.9	22.3	6 20	15 36.98	-12 6.3	1.785	2.684	12.4	17.6
6 30	15 49.81	-16 48.9	14.310	15.108	2.5	22.3	6 30	15 33.48	-11 47.6	1.853	2.671	15.6	17.8
<b>401293</b>	2012 <i>DF</i> <sub>80</sub>		5 22.3 303°05'	3°5'/24.3	18		<b>500123</b>	2012 <i>CK</i> <sub>11</sub>		5 22.3 97°42'	3°6'/23.7	17	
4 21	16 19.00	-32 18.4	2.606	3.448	10.5	20.5	4 21	16 24.77	-29 16.9	1.514	2.382	15.3	21.9
5 1	16 13.38	-32 36.4	2.523	3.442	8.1	20.4	5 1	16 18.19	-29 27.9	1.452	2.388	11.4	21.7
5 11	16 6.14	-32 44.2	2.465	3.435	5.5	20.2	5 11	16 9.00	-29 24.9	1.412	2.395	7.2	21.5
5 21	15 57.93	-32 40.8	2.434	3.429	3.7	20.1	5 21	15 58.29	-29 6.6	1.396	2.401	3.8	21.3
5 31	15 49.55	-32 26.6	2.431	3.423	4.2	20.1	5 31	15 47.48	-28 34.8	1.406	2.407	5.1	21.4
6 10	15 41.83	-32 3.9	2.455	3.417	6.4	20.2	6 10	15 38.02	-27 54.5	1.441	2.413	9.1	21.6
6 20	15 35.48	-31 35.9	2.505	3.411	9.0	20.4	6 20	15 30.94	-27 12.0	1.500	2.418	13.1	21.9
6 30	15 31.01	-31 6.2	2.578	3.405	11.5	20.5	6 30	15 26.88	-26 33.1	1.579	2.424	16.6	22.1
<b>165220</b>	2000 <i>SZ</i> <sub>40</sub>		5 22.3 186°40'	1°6'/22.9	17		<b>167523</b>	2003 <i>YX</i> <sub>147</sub>		5 22.3 279°87'	0°1'/22.2	18	
4 21	16 25.54	-25 14.6	1.806	2.672	13.3	21.1	4 21	16 21.74	-19 58.2	2.007	2.882	11.8	20.0
5 1	16 18.41	-25 14.7	1.733	2.672	9.7	20.9	5 1	16 15.70	-20 4.7	1.914	2.860	8.5	19.8
5 11	16 9.01	-25 5.4	1.683	2.672	5.6	20.6	5 11	16 7.61	-20 8.0	1.845	2.838	4.7	19.5
5 21	15 58.27	-24 46.7	1.660	2.670	1.8	20.4	5 21	15 58.15	-20 8.1	1.803	2.815	0.5	19.1
5 31	15 47.36	-24 20.3	1.665	2.669	4.0	20.5	5 31	15 48.29	-20 6.2	1.789	2.792	3.8	19.3
6 10	15 37.50	-23 50.0	1.697	2.666	8.2	20.8	6 10	15 39.11	-20 4.4	1.802	2.770	7.9	19.6
6 20	15 29.65	-23 20.3	1.754	2.663	12.1	21.0	6 20	15 31.49	-20 5.1	1.840	2.746	11.8	19.7
6 30	15 24.42	-22 55.4	1.832	2.659	15.4	21.2	6 30	15 26.15	-20 10.7	1.900	2.723	15.1	19.9
<b>302814</b>	2003 <i>BH</i> <sub>72</sub>		5 22.3 30°93'	2°3'/23.7	17		<b>301080</b>	2008 <i>UK</i> <sub>257</sub>		5 22.3 168°97'	0°4'/22.4	16	
4 21	16 18.97	-29 45.4	1.572	2.446	14.6	19.2	4 21	16 25.04	-23 9.1	1.568	2.445	14.4	21.9
5 1	16 13.67	-28 54.3	1.522	2.463	10.7	19.0	5 1	16 18.18	-22 42.7	1.502	2.448	10.3	21.7
5 11	16 6.31	-27 47.3	1.495	2.482	6.4	18.8	5 11	16 8.92	-22 6.8	1.459	2.451	5.7	21.4
5 21	15 57.94	-26 27.4	1.493	2.502	2.6	18.6	5 21	15 58.28	-21 23.0	1.441	2.453	0.8	21.1
5 31	15 49.76	-25 0.2	1.518	2.522	4.1	18.8	5 31	15 47.57	-20 35.1	1.451	2.455	4.3	21.3
6 10	15 42.91	-23 33.0	1.568	2.543	8.1	19.1	6 10	15 38.10	-19 48.3	1.487	2.456	9.1	21.6
6 20	15 38.12	-22 12.7	1.642	2.564	11.9	19.3	6 20	15 30.83	-19 7.8	1.546	2.457	13.3	21.9
6 30	15 35.84	-21 4.2	1.738	2.586	15.2	19.6	6 30	15 26.37	-18 37.6	1.626	2.457	16.8	22.1
<b>106131</b>	2000 <i>TO</i> <sub>39</sub>		5 22.3 279°81'	1°7'/22.9	18		<b>241795</b>	2001 <i>QQ</i> <sub>110</sub>		5 22.3 305°39'	1°4'/21.6	18	
4 21	16 21.23	-24 41.9	2.189	3.054	11.3	19.8	4 21	16 18.80	-17 48.2	1.911	2.794	11.9	20.6
5 1	16 15.20	-25 2.9	2.101	3.040	8.3	19.6	5 1	16 13.49	-17 26.9	1.834	2.784	8.5	20.3
5 11	16 7.26	-25 17.9	2.037	3.025	4.9	19.4	5 11	16 6.31	-17 2.5	1.781	2.774	4.7	20.1
5 21	15 58.09	-25 26.1	2.001	3.010	1.8	19.1	5 21	15 58.00	-16 37.0	1.754	2.765	1.4	19.8
5 31	15 48.61	-25 27.8	1.993	2.996	3.6	19.2	5 31	15 49.50	-16 13.2	1.755	2.755	4.2	20.0
6 10	15 39.80	-25 24.9	2.013	2.981	7.2	19.4	6 10	15 41.80	-15 54.1	1.781	2.746	8.2	20.2
6 20	15 32.52	-25 20.0	2.058	2.966	10.6	19.6	6 20	15 35.70	-15 42.3	1.832	2.737	11.9	20.4
6 30	15 27.37	-25 16.1	2.125	2.951	13.6	19.8	6 30	15 31.78	-15 39.6	1.904	2.728	15.0	20.6
<b>296470</b>	2009 <i>HG</i> <sub>92</sub>		5 22.3 310°93'	1°6'/21.5	16		<b>386152</b>	2007 <i>TP</i> <sub>292</sub>		5 22.3 153°29'	1°1'/21.7	18	
4 21	16 17.70	-17 22.1	1.984	2.868	11.5	21.3	4 21	16 19.62	-18 25.2	2.065	2.943	11.4	21.9
5 1	16 12.69	-16 57.6	1.901	2.852	8.2	21.0	5 1	16 13.86	-18 2.4	1.996	2.944	8.1	21.7
5 11	16 5.86	-16 30.2	1.843	2.837	4.6	20.8	5 11	16 6.42	-17 36.2	1.953	2.946	4.4	21.5
5 21	15 57.93	-16 2.1	1.811	2.821	1.6	20.5	5 21	15 58.00	-17 8.6	1.936	2.947	1.2	21.3
5 31	15 49.77	-15 36.0	1.806	2.806	4.3	20.7	5 31	15 49.52	-16 42.2	1.948	2.949	3.9	21.5
6 10	15 42.34	-15 15.1	1.828	2.792	8.1	20.9	6 10	15 41.86	-16 19.9	1.986	2.950	7.6	21.7
6 20	15 36.41	-15 1.8	1.874	2.777	11.7	21.1	6 20	15 35.75	-16 4.1	2.050	2.951	11.0	21.9
6 30	15 32.57	-14 58.0	1.941	2.763	14.8	21.3	6 30	15 31.68	-15 56.7	2.135	2.952	13.8	22.1
<b>476544</b>	2008 <i>HB</i> <sub>44</sub>		5 22.3 193°78'	2°1'/23.2	18		<b>387051</b>	2012 <i>TU</i> <sub>20</sub>		5 22.3 280°43'	2°5'/23.4	17	
4 21	16 21.25	-26 39.8	2.634	3.488	10.0	21.5	4 21	16 21.82	-27 21.7	1.876	2.742	12.9	21.2
5 1	16 14.88	-27 5.6	2.555	3.486	7.4	21.3	5 1	16 15.89	-27 32.4	1.792	2.729	9.6	21.0
5 11	16 6.94	-27 25.0	2.502	3.485	4.5	21.1	5 11	16 7.74	-27 33.2	1.731	2.716	5.9	20.7
5 21	15 58.04	-27 37.0	2.478	3.483	2.2	20.9	5 21	15 58.17	-27 23.3	1.696	2.703	2.7	20.5
5 31	15 48.97	-27 41.8	2.482	3.482	3.3	21.0	5 31	15 48.30	-27 3.5	1.688	2.689	4.2	20.6
6 10	15 40.54	-27 41.1	2.515	3.480	6.1	21.2	6 10	15 39.29	-26 37.1	1.706	2.676	8.0	20.8
6 20	15 33.43	-27 36.9	2.574	3.477	8.9	21.4	6 20	15 32.10	-26 8.3	1.749	2.663	11.8	21.0
6 30	15 28.15	-27 32.2	2.657	3.475	11.4	21.5	6 30	15 27.43	-25 41.8	1.813	2.650	15.1	21.1
<b>357818</b>	2005 <i>TD</i> <sub>194</sub>		5 22.3 120°21'	2°7'/23.7	17		<b>201448</b>	2003 <i>FE</i> <sub>53</sub>		5 22.3 34°59'	0°9'/21.9	18	
4 21	16 20.78	-29 23.1	2.547	3.396	10.5	21.7	4 21	16 20.89	-21 56.3	1.105	2.007	17.1	19.5
5 1	16 14.53	-29 39.3	2.479	3.405	7.8	21.5	5 1	16 15.70	-21 1.0	1.056	2.015	12.2	19.3
5 11	16 6.72	-29 46.6	2.435	3.413	5.0	21.3	5 11	16 7.70	-19 54.6	1.027	2.023	6.6	19.0
5 21	15 58.01	-29 44.4	2.419	3.421	2.8	21.2	5 21	15 58.15	-18 41.9	1.021	2.033	1.0	18.6
5 31	15 49.23	-29 33.4	2.432	3.429	3.6	21.2	5 31	15 48.69	-17 30.5	1.039	2.043	5.5	19.0
6 10	15 41.21	-29 15.8	2.473	3.437	6.2	21.4	6 10	15 40.85	-16 28.2	1.079	2.053	11.0	19.3
6 20	15 34.60	-28 54.8	2.540	3.445	9.0	21.6	6 20	15 35.66	-15 40.8	1.140	2.064	15.8	19.6
6 30	15 29.89	-28 33.6	2.630	3.452	11.4	21.8	6 30	15 33.67	-15 11.4	1.219	2.076	19.8	19.9
<b>509020</b>	2005 <i>NU</i> <sub>18</sub>		5 22.3 260°59'	4°0'/19.9	18		<b>378532</b>	20					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>425112</b>	2009 SY <sub>146</sub>		5 22.3 111°33	3°7/23.8	17		<b>79687</b>	1998 SC <sub>59</sub>		5 22.3 203°28	0°5/22.5	17	
4 21	16 26.95	-30 23.0	2.050	2.896	12.8	21.5	4 21	16 23.76	-22 24.5	2.045	2.913	11.9	20.8
5 1	16 19.18	-30 58.4	1.992	2.915	9.6	21.4	5 1	16 16.96	-22 19.0	1.967	2.909	8.6	20.6
5 11	16 9.35	-31 22.2	1.959	2.934	6.3	21.2	5 11	16 8.20	-22 7.1	1.913	2.904	4.8	20.3
5 21	15 58.34	-31 32.7	1.953	2.952	3.9	21.1	5 21	15 58.25	-21 49.5	1.886	2.898	0.8	20.0
5 31	15 47.31	-31 30.1	1.975	2.970	4.7	21.1	5 31	15 48.12	-21 27.9	1.888	2.892	3.6	20.2
6 10	15 37.38	-31 17.1	2.025	2.987	7.6	21.4	6 10	15 38.85	-21 5.3	1.918	2.885	7.6	20.5
6 20	15 29.38	-30 57.9	2.100	3.003	10.6	21.6	6 20	15 31.26	-20 45.0	1.973	2.877	11.2	20.7
6 30	15 23.89	-30 37.3	2.197	3.019	13.3	21.8	6 30	15 25.95	-20 30.2	2.050	2.869	14.3	20.9
<b>308398</b>	2005 ST <sub>49</sub>		5 22.3 195°39	4°4/18.7	16		<b>471903</b>	2013 BC <sub>72</sub>		5 22.3 130°47	6°4/18.1	18	
4 21	16 16.57	- 6 51.6	2.801	3.669	9.1	21.4	4 21	16 17.78	+ 2 2.8	2.731	3.577	9.9	21.7
5 1	16 11.31	- 5 48.0	2.733	3.667	6.9	21.2	5 1	16 12.11	+ 2 44.9	2.683	3.589	8.1	21.6
5 11	16 4.90	- 4 47.8	2.692	3.665	5.0	21.1	5 11	16 5.30	+ 3 17.0	2.659	3.601	6.8	21.5
5 21	15 57.84	- 3 54.4	2.679	3.662	4.5	21.1	5 21	15 57.91	+ 3 35.9	2.663	3.612	6.5	21.5
5 31	15 50.74	- 3 10.9	2.695	3.659	5.8	21.1	5 31	15 50.53	+ 3 39.9	2.693	3.623	7.4	21.6
6 10	15 44.21	- 2 39.6	2.738	3.655	7.9	21.3	6 10	15 43.80	+ 3 28.4	2.750	3.633	9.1	21.7
6 20	15 38.73	- 2 21.5	2.806	3.651	10.1	21.4	6 20	15 38.18	+ 3 2.4	2.829	3.643	10.9	21.8
6 30	15 34.69	- 2 16.4	2.895	3.647	12.1	21.5	6 30	15 34.05	+ 2 23.4	2.930	3.653	12.5	22.0
<b>144201</b>	2004 CO <sub>1</sub>		5 22.3 344°33	1°5/21.7	18		<b>353345</b>	2010 VM <sub>73</sub>		5 22.3 207°55	1°6/21.4	17	
4 21	16 18.41	-19 16.4	1.226	2.128	15.7	18.7	4 21	16 22.20	-18 37.2	1.779	2.659	12.8	21.7
5 1	16 13.97	-18 43.1	1.161	2.120	11.3	18.5	5 1	16 15.95	-17 52.4	1.706	2.655	9.1	21.5
5 11	16 6.85	-18 3.1	1.116	2.113	6.2	18.1	5 11	16 7.67	-17 2.2	1.658	2.651	5.0	21.2
5 21	15 58.08	-17 19.8	1.095	2.106	1.5	17.8	5 21	15 58.19	-16 9.7	1.636	2.647	1.6	21.0
5 31	15 49.09	-16 38.2	1.098	2.101	5.5	18.1	5 31	15 48.59	-15 19.0	1.642	2.642	4.7	21.2
6 10	15 41.33	-16 4.0	1.123	2.096	10.8	18.3	6 10	15 39.98	-14 34.8	1.675	2.637	8.9	21.4
6 20	15 35.93	-15 41.7	1.169	2.093	15.6	18.6	6 20	15 33.18	-14 0.8	1.731	2.631	12.7	21.6
6 30	15 33.58	-15 33.7	1.233	2.090	19.6	18.8	6 30	15 28.79	-13 39.3	1.808	2.624	16.0	21.8
<b>523045</b>	2016 PT <sub>127</sub>		5 22.3 210°32	4°1/24.9	18		<b>297052</b>	2010 HB <sub>81</sub>		5 22.3 289°54	2°1/20.5	18	
4 21	16 21.02	-35 37.4	2.780	3.604	10.4	22.2	4 21	16 12.64	- 9 40.3	4.290	5.157	6.2	19.9
5 1	16 14.75	-35 45.6	2.696	3.599	8.2	22.0	5 1	16 8.29	- 9 35.5	4.214	5.152	4.5	19.8
5 11	16 6.89	-35 41.6	2.635	3.594	5.9	21.8	5 11	16 3.20	- 9 32.9	4.165	5.147	2.9	19.7
5 21	15 58.08	-35 24.4	2.602	3.588	4.3	21.7	5 21	15 57.67	- 9 33.6	4.145	5.143	2.1	19.6
5 31	15 49.14	-34 54.6	2.597	3.582	4.5	21.7	5 31	15 52.09	- 9 38.2	4.154	5.138	3.0	19.7
6 10	15 40.92	-34 14.9	2.620	3.576	6.4	21.8	6 10	15 46.83	- 9 47.5	4.193	5.133	4.7	19.8
6 20	15 34.09	-33 29.0	2.669	3.569	8.8	22.0	6 20	15 42.22	-10 1.8	4.258	5.129	6.4	19.9
6 30	15 29.15	-32 41.3	2.742	3.562	11.0	22.1	6 30	15 38.53	-10 21.2	4.347	5.124	8.0	20.0
<b>263240</b>	2008 AA <sub>101</sub>		5 22.3 167°28	4°6/20.1	17		<b>184973</b>	2005 YN <sub>8</sub>		5 22.3 214°76	1°6/22.9	18	R
4 21	16 21.71	-10 51.0	1.676	2.560	13.3	21.3	4 21	16 22.90	-24 27.3	2.630	3.485	10.0	20.2
5 1	16 15.57	- 9 58.8	1.615	2.562	9.7	21.1	5 1	16 16.11	-25 5.1	2.548	3.481	7.3	20.0
5 11	16 7.43	- 9 9.0	1.578	2.564	6.2	20.9	5 11	16 7.67	-25 38.2	2.492	3.477	4.3	19.8
5 21	15 58.14	- 8 26.1	1.567	2.566	4.6	20.8	5 21	15 58.20	-26 5.5	2.465	3.473	1.8	19.6
5 31	15 48.81	- 7 54.5	1.582	2.567	6.8	21.0	5 31	15 48.48	-26 26.7	2.467	3.468	3.2	19.7
6 10	15 40.49	- 7 37.3	1.623	2.568	10.4	21.2	6 10	15 39.37	-26 42.5	2.499	3.463	6.2	19.9
6 20	15 34.03	- 7 35.6	1.686	2.569	13.9	21.4	6 20	15 31.57	-26 54.7	2.558	3.458	9.1	20.0
6 30	15 29.95	- 7 49.3	1.769	2.570	16.9	21.6	6 30	15 25.62	-27 5.7	2.641	3.453	11.6	20.2
<b>507365</b>	2011 WY <sub>157</sub>		5 22.3 289°65	4°1/20.7	18		<b>251429</b>	2008 BV <sub>21</sub>		5 22.3 29°55	6°3/19.1	18	
4 21	16 21.11	- 7 34.1	2.186	3.056	11.2	20.4	4 21	16 17.03	- 4 46.5	1.838	2.718	12.4	19.9
5 1	16 15.01	- 7 35.8	2.097	3.036	8.3	20.2	5 1	16 12.04	- 3 55.4	1.789	2.727	9.5	19.8
5 11	16 7.14	- 7 44.0	2.034	3.015	5.5	20.0	5 11	16 5.43	- 3 12.8	1.765	2.737	7.1	19.6
5 21	15 58.13	- 8 0.5	1.998	2.994	4.1	19.9	5 21	15 57.94	- 2 42.9	1.765	2.747	6.4	19.6
5 31	15 48.81	- 8 26.7	1.990	2.974	5.7	19.9	5 31	15 50.47	- 2 29.1	1.791	2.758	7.9	19.7
6 10	15 40.10	- 9 3.2	2.009	2.953	8.8	20.1	6 10	15 43.90	- 2 32.8	1.842	2.769	10.5	19.9
6 20	15 32.74	- 9 49.4	2.053	2.932	11.9	20.2	6 20	15 38.88	- 2 53.2	1.914	2.780	13.2	20.1
6 30	15 27.34	-10 44.6	2.119	2.912	14.7	20.4	6 30	15 35.88	- 3 28.8	2.007	2.792	15.7	20.3
<b>259242</b>	2003 BE <sub>67</sub>		5 22.3 33°72	1°7/21.6	17		<b>199587</b>	2006 FD <sub>16</sub>		5 22.3 22°25	2°5/23.3	17	
4 21	16 20.82	-17 25.9	1.384	2.278	14.8	20.0	4 21	16 21.79	-26 59.8	1.725	2.596	13.6	20.0
5 1	16 15.27	-17 9.3	1.331	2.286	10.5	19.8	5 1	16 15.86	-27 10.5	1.658	2.598	10.0	19.8
5 11	16 7.37	-16 50.1	1.300	2.295	5.8	19.5	5 11	16 7.70	-27 10.8	1.613	2.600	6.1	19.6
5 21	15 58.14	-16 30.8	1.293	2.304	1.7	19.3	5 21	15 58.22	-27 0.3	1.594	2.602	2.7	19.4
5 31	15 48.90	-16 14.6	1.312	2.314	5.1	19.5	5 31	15 48.59	-26 40.3	1.602	2.604	4.3	19.5
6 10	15 40.92	-16 4.8	1.355	2.324	9.8	19.8	6 10	15 40.02	-26 14.5	1.635	2.607	8.2	19.7
6 20	15 35.13	-16 3.8	1.420	2.335	14.0	20.1	6 20	15 33.44	-25 47.2	1.692	2.609	12.0	19.9
6 30	15 32.11	-16 13.1	1.504	2.346	17.5	20.4	6 30	15 29.46	-25 23.1	1.770	2.612	15.2	20.2
<b>165029</b>	2000 DC <sub>21</sub>		5 22.3 164°31	3°0/24.0	18		<b>471389</b>	2011 SQ <sub>128</sub>		5 22.3 182°83	0°7/22.7	18	
4 21	16 22.61	-30 58.4	2.538	3.380	10.8	20.8	4 21	16 19.62	-23 16.0	2.673	3.536	9.6	22.1
5 1	16 15.86	-31 2.4	2.465	3.386	8.1	20.7	5 1	16 13.65	-23 16.0	2.597	3.536	6.9	21.9
5 11	16 7.47	-30 55.8	2.416	3.391	5.3	20.5	5 11	16 6.26	-23 10.8	2.547	3.536	3.9	21.7
5 21	15 58.15	-30 38.1	2.395	3.395	3.1	20.4	5 21	15 58.05	-23 0.9	2.525	3.536	0.9	21.5
5 31	15 48.77	-30 10.5	2.403	3.399	3.8	20.4	5 31	15 49.74	-22 47.3	2.532	3.535	2.8	21.7
6 10	15 40.20	-29 35.8	2.439	3.402	6.4	20.6	6 10	15 42.07	-22 32.2	2.568	3.534	5.9	21.9
6 20	15 33.11	-28 57.9	2.501	3.405	9.1	20.8	6 20	15 35.65	-22 17.8	2.630	3.533	8.8	22.0
6 30	15 28.01	-28 20.5	2.588	3.407	11.6	20.9	6 30	15 30.93	-22 6.4	2.716	3.531	11.2	22.2
<b>485939</b>	2012 HV <sub>24</sub>		5 22.3 341°23	25°3/ 7.2	18		<b>355232</b>	2007 BU <sub>80</sub>		5 22.3 69°14	4°3/24.7	18	
4 21	16 21.74</												

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>282268</b>	2002 <i>NB</i> <sub>4</sub>		5 22.3 354°25	7°1/18.3	17		<b>206869</b>	2004 <i>FW</i> <sub>92</sub>		5 22.3 357°01	1°9/23.2	17	
4 21	16 14.85	-9 12.9	1.292	2.197	14.9	19.7	4 21	16 19.38	-26 7.0	1.773	2.648	13.1	20.0
5 1	16 11.15	-7 33.2	1.236	2.190	11.2	19.5	5 1	16 14.11	-26 7.5	1.703	2.646	9.6	19.8
5 11	16 5.20	-5 56.5	1.201	2.185	8.0	19.3	5 11	16 6.75	-25 58.5	1.656	2.644	5.7	19.6
5 21	15 57.95	-4 31.4	1.190	2.181	7.2	19.2	5 21	15 58.16	-25 39.9	1.634	2.643	2.2	19.3
5 31	15 50.60	-3 26.2	1.202	2.179	9.6	19.3	5 31	15 49.41	-25 13.7	1.639	2.643	4.0	19.4
6 10	15 44.35	-2 46.0	1.236	2.177	13.3	19.5	6 10	15 41.64	-24 43.6	1.670	2.643	7.9	19.7
6 20	15 40.12	-2 32.4	1.289	2.177	17.0	19.7	6 20	15 35.72	-24 13.9	1.725	2.643	11.7	19.9
6 30	15 38.49	-2 43.7	1.359	2.178	20.2	20.0	6 30	15 32.23	-23 48.4	1.800	2.644	14.9	20.1
<b>456119</b>	2006 <i>DN</i> <sub>24</sub>		5 22.3 145°77	1°8/23.0	16		<b>156963</b>	2003 <i>HP</i> <sub>29</sub>		5 22.3 307°20	3°7/23.0	18	
4 21	16 26.52	-25 41.7	1.608	2.478	14.5	22.8	4 21	16 25.03	-26 25.2	1.564	2.436	14.7	19.7
5 1	16 19.25	-25 41.5	1.546	2.487	10.6	22.6	5 1	16 18.85	-27 27.1	1.475	2.414	11.1	19.4
5 11	16 9.55	-25 30.7	1.506	2.494	6.1	22.4	5 11	16 9.76	-28 23.1	1.408	2.393	7.0	19.2
5 21	15 58.45	-25 9.2	1.492	2.502	2.1	22.1	5 21	15 58.56	-29 9.3	1.367	2.372	3.9	18.9
5 31	15 47.29	-24 39.2	1.505	2.508	4.3	22.3	5 31	15 46.59	-29 42.9	1.352	2.351	5.5	19.0
6 10	15 37.41	-24 5.2	1.544	2.515	8.7	22.5	6 10	15 35.43	-30 4.6	1.362	2.331	9.8	19.1
6 20	15 29.78	-23 32.2	1.608	2.520	12.8	22.8	6 20	15 26.45	-30 17.4	1.395	2.311	14.1	19.3
6 30	15 25.02	-23 5.0	1.692	2.525	16.2	23.0	6 30	15 20.64	-30 26.2	1.448	2.291	17.9	19.5
<b>180362</b>	2003 <i>YA</i> <sub>94</sub>		5 22.3 208°51	3°5/24.0	17		<b>359437</b>	2010 <i>MN</i> <sub>63</sub>		5 22.3 322°93	5°8/25.5	18	
4 21	16 25.58	-30 59.8	1.994	2.842	13.0	21.1	4 21	16 20.36	-37 15.3	1.955	2.791	13.7	20.3
5 1	16 18.47	-31 4.4	1.912	2.836	9.9	20.9	5 1	16 14.97	-37 27.2	1.869	2.778	11.0	20.1
5 11	16 9.13	-30 55.7	1.853	2.830	6.5	20.7	5 11	16 7.31	-37 21.6	1.806	2.765	8.2	19.9
5 21	15 58.42	-30 32.6	1.821	2.823	3.7	20.5	5 21	15 58.24	-36 56.5	1.767	2.752	6.1	19.7
5 31	15 47.50	-29 56.3	1.817	2.815	4.6	20.5	5 31	15 48.93	-36 12.4	1.754	2.740	6.3	19.7
6 10	15 37.56	-29 10.7	1.841	2.806	7.9	20.7	6 10	15 40.58	-35 13.3	1.767	2.728	8.6	19.8
6 20	15 29.54	-28 21.1	1.889	2.797	11.4	20.9	6 20	15 34.17	-34 5.4	1.804	2.716	11.6	20.0
6 30	15 24.08	-27 33.3	1.960	2.787	14.5	21.1	6 30	15 30.36	-32 55.6	1.862	2.706	14.5	20.1
<b>102047</b>	1999 <i>RO</i> <sub>120</sub>		5 22.3 271°78	6°2/25.9	18		<b>67890</b>	2000 <i>WK</i> <sub>61</sub>		5 22.3 174°51	3°5/24.6	18	
4 21	16 22.68	-40 28.5	2.407	3.215	12.3	19.3	4 21	16 23.18	-33 17.9	2.147	2.989	12.5	19.3
5 1	16 16.37	-40 49.8	2.315	3.200	10.2	19.1	5 1	16 16.51	-32 53.2	2.071	2.991	9.5	19.1
5 11	16 7.99	-40 54.9	2.245	3.184	8.0	18.9	5 11	16 7.93	-32 13.1	2.019	2.992	6.3	18.9
5 21	15 58.29	-40 41.1	2.201	3.169	6.4	18.8	5 21	15 58.31	-31 17.8	1.994	2.993	3.8	18.7
5 31	15 48.33	-40 8.4	2.183	3.153	6.5	18.8	5 31	15 48.69	-30 9.9	1.997	2.994	4.3	18.8
6 10	15 39.20	-39 19.4	2.192	3.137	8.1	18.9	6 10	15 40.09	-28 54.5	2.028	2.994	7.2	18.9
6 20	15 31.80	-38 19.3	2.225	3.121	10.5	19.0	6 20	15 33.29	-27 37.7	2.085	2.994	10.4	19.1
6 30	15 26.77	-37 14.0	2.282	3.105	12.9	19.1	6 30	15 28.80	-26 25.1	2.165	2.994	13.3	19.3
<b>359927</b>	2011 <i>WJ</i> <sub>147</sub>		5 22.3 224°58	2°8/24.1	18		<b>96373</b>	1997 <i>YH</i> <sub>7</sub>		5 22.3 205°23	1°7/23.0	18	R
4 21	16 20.29	-30 56.3	2.616	3.461	10.4	21.8	4 21	16 25.19	-25 42.8	1.719	2.587	13.8	19.2
5 1	16 14.28	-30 55.8	2.531	3.453	7.9	21.7	5 1	16 18.35	-25 38.5	1.643	2.583	10.1	19.0
5 11	16 6.68	-30 45.1	2.470	3.446	5.2	21.5	5 11	16 9.14	-25 23.8	1.591	2.579	5.9	18.7
5 21	15 58.14	-30 23.7	2.437	3.438	3.0	21.3	5 21	15 58.47	-24 58.6	1.564	2.574	2.0	18.5
5 31	15 49.46	-29 52.7	2.433	3.430	3.7	21.4	5 31	15 47.60	-24 25.2	1.565	2.569	4.2	18.6
6 10	15 41.47	-29 15.0	2.456	3.421	6.3	21.5	6 10	15 37.79	-23 47.7	1.593	2.563	8.5	18.8
6 20	15 34.85	-28 34.1	2.506	3.412	9.0	21.7	6 20	15 30.06	-23 11.1	1.645	2.557	12.6	19.1
6 30	15 30.10	-27 53.8	2.580	3.403	11.5	21.8	6 30	15 25.05	-22 40.2	1.718	2.549	16.0	19.3
<b>188945</b>	2007 <i>DT</i> <sub>60</sub>		5 22.3 121°04	1°3/21.3	18		<b>394758</b>	2008 <i>FT</i> <sub>133</sub>		5 22.3 118°00	2°1/20.9	17	
4 21	16 17.91	-17 35.3	2.820	3.690	8.9	20.9	4 21	16 17.98	-14 59.1	2.513	3.388	9.7	21.8
5 1	16 12.22	-16 53.9	2.761	3.706	6.3	20.7	5 1	16 12.43	-14 26.5	2.452	3.398	6.9	21.6
5 11	16 5.39	-16 10.1	2.729	3.721	3.5	20.6	5 11	16 5.59	-13 53.3	2.417	3.408	3.9	21.4
5 21	15 57.98	-15 26.2	2.726	3.736	1.3	20.4	5 21	15 58.05	-13 21.7	2.410	3.417	2.1	21.3
5 31	15 50.62	-14 44.7	2.753	3.750	3.3	20.6	5 31	15 50.51	-12 54.3	2.432	3.427	3.9	21.5
6 10	15 43.92	-14 8.1	2.809	3.764	6.0	20.8	6 10	15 43.68	-12 33.1	2.482	3.436	6.8	21.7
6 20	15 38.37	-13 38.3	2.891	3.778	8.6	21.0	6 20	15 38.08	-12 19.7	2.558	3.445	9.6	21.9
6 30	15 34.32	-13 16.8	2.996	3.791	10.8	21.2	6 30	15 34.13	-12 15.1	2.655	3.454	11.9	22.0
<b>211186</b>	2002 <i>JN</i> <sub>129</sub>		5 22.3 340°34	1°8/21.9	17		<b>475078</b>	2005 <i>UZ</i> <sub>156</sub>		5 22.3 233°27	0°8/22.8	18	R
4 21	16 20.81	-16 5.1	1.126	2.030	16.7	19.7	4 21	16 19.80	-23 24.5	2.682	3.544	9.6	21.8
5 1	16 16.01	-16 18.6	1.060	2.020	12.0	19.4	5 1	16 13.88	-23 28.8	2.596	3.534	6.9	21.6
5 11	16 8.17	-16 33.3	1.014	2.010	6.7	19.1	5 11	16 6.48	-23 28.1	2.535	3.524	3.9	21.4
5 21	15 58.34	-16 50.3	0.990	2.001	1.9	18.7	5 21	15 58.17	-23 22.4	2.503	3.513	1.0	21.2
5 31	15 48.07	-17 10.9	0.990	1.994	5.8	18.9	5 31	15 49.68	-23 12.8	2.500	3.503	2.9	21.3
6 10	15 39.04	-17 36.8	1.012	1.987	11.4	19.2	6 10	15 41.78	-23 1.1	2.525	3.491	6.0	21.5
6 20	15 32.60	-18 9.5	1.054	1.982	16.5	19.5	6 20	15 35.09	-22 49.6	2.577	3.480	8.9	21.7
6 30	15 29.58	-18 49.8	1.113	1.977	20.8	19.7	6 30	15 30.12	-22 40.5	2.652	3.468	11.5	21.8
<b>188948</b>	2007 <i>EW</i> <sub>5</sub>		5 22.3 284°88	2°0/21.4	17		<b>29412</b>	1996 <i>WJ</i> <sub>3</sub>		5 22.3 107°77	2°6/20.6	18	
4 21	16 21.18	-17 12.5	1.689	2.574	13.1	20.7	4 21	16 18.61	-14 38.6	2.257	3.134	10.6	18.3
5 1	16 15.58	-16 41.7	1.599	2.550	9.5	20.4	5 1	16 12.97	-13 48.7	2.199	3.146	7.5	18.1
5 11	16 7.68	-16 6.8	1.533	2.526	5.3	20.1	5 11	16 5.90	-12 58.1	2.167	3.157	4.4	18.0
5 21	15 58.28	-15 30.4	1.492	2.502	2.0	19.8	5 21	15 58.09	-12 9.9	2.163	3.168	2.6	17.9
5 31	15 48.46	-14 56.2	1.478	2.477	5.1	19.9	5 31	15 50.31	-11 27.4	2.187	3.178	4.6	18.0
6 10	15 39.44	-14 28.3	1.489	2.452	9.6	20.1	6 10	15 43.33	-10 53.6	2.238	3.189	7.6	18.2
6 20	15 32.22	-14 10.1	1.524	2.428	13.9	20.3	6 20	15 37.73	-10 30.3	2.314	3.199	10.5	18.4
6 30	15 27.55	-14 4.2	1.578	2.403	17.6	20.5	6 30	15 33.93	-10 18.4	2.412	3.209	13.0	18.6
<b>214845</b>	2006 <i>WQ</i> <sub>67</sub>		5 22.3 278°81	2°1/21.2	16		<b>34567</b>	2000 <					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>516666</b>	2008 <i>SS</i> <sub>77</sub>		5 22.3 170°51		5°7/18.6 17		<b>253097</b>	2002 <i>TS</i> <sub>273</sub>		5 22.3 160°01		0°8/22.7 17	
4 21	16 19.23	- 6 47.7	2.044	2.919	11.6	21.6	4 21	16 23.76	-24 15.7	1.985	2.851	12.3	20.9
5 1	16 13.55	- 5 32.5	1.984	2.921	8.8	21.4	5 1	16 16.94	-23 56.2	1.916	2.857	8.9	20.7
5 11	16 6.29	- 4 22.1	1.949	2.923	6.4	21.3	5 11	16 8.21	-23 28.2	1.873	2.863	5.0	20.5
5 21	15 58.16	- 3 21.3	1.941	2.924	5.8	21.2	5 21	15 58.41	-22 52.8	1.857	2.868	1.1	20.2
5 31	15 50.00	- 2 34.6	1.960	2.925	7.4	21.3	5 31	15 48.57	-22 12.6	1.869	2.872	3.6	20.4
6 10	15 42.65	- 2 4.9	2.005	2.926	10.1	21.5	6 10	15 39.73	-21 31.7	1.908	2.876	7.5	20.6
6 20	15 36.78	- 1 53.1	2.073	2.926	12.8	21.7	6 20	15 32.67	-20 54.0	1.973	2.879	11.1	20.9
6 30	15 32.84	- 1 58.4	2.160	2.927	15.3	21.8	6 30	15 27.91	-20 23.2	2.060	2.882	14.1	21.1
<b>486673</b>	2013 <i>SZ</i> <sub>75</sub>		5 22.3 121°03		2°4/19.8 18		<b>179472</b>	2002 <i>BH</i> <sub>24</sub>		5 22.3 35°95		2°0/23.3 17	
4 21	16 11.05	- 8 21.3	4.604	5.471	5.8	22.1	4 21	16 19.72	-26 51.4	2.108	2.973	11.7	20.1
5 1	16 7.16	- 7 57.2	4.540	5.476	4.3	22.0	5 1	16 14.09	-26 51.2	2.039	2.976	8.6	19.9
5 11	16 2.62	- 7 35.3	4.504	5.482	2.9	21.9	5 11	16 6.67	-26 42.0	1.994	2.980	5.2	19.7
5 21	15 57.73	- 7 17.1	4.496	5.487	2.4	21.8	5 21	15 58.23	-26 23.9	1.975	2.983	2.2	19.5
5 31	15 52.82	- 7 3.5	4.517	5.492	3.2	21.9	5 31	15 49.71	-25 58.7	1.985	2.987	3.6	19.6
6 10	15 48.23	- 6 55.6	4.567	5.497	4.7	22.0	6 10	15 42.05	-25 29.4	2.021	2.991	7.0	19.8
6 20	15 44.24	- 6 53.7	4.643	5.502	6.2	22.1	6 20	15 36.00	-24 59.7	2.082	2.995	10.3	20.0
6 30	15 41.07	- 6 58.0	4.743	5.507	7.5	22.2	6 30	15 32.07	-24 33.2	2.166	3.000	13.1	20.2
<b>140486</b>	2001 <i>TZ</i> <sub>142</sub>		5 22.3 95°29		1°5/21.7 18		<b>253790</b>	2003 <i>WG</i> <sub>173</sub>		5 22.3 195°68		2°1/22.9 18	
4 21	16 22.72	-17 7.7	1.678	2.561	13.3	19.8	4 21	16 25.87	-24 2.8	1.503	2.380	14.9	20.4
5 1	16 16.36	-16 56.4	1.620	2.570	9.5	19.6	5 1	16 19.14	-24 35.6	1.435	2.380	10.9	20.2
5 11	16 7.94	-16 43.1	1.586	2.579	5.2	19.4	5 11	16 9.72	-25 1.3	1.390	2.380	6.4	19.9
5 21	15 58.36	-16 29.6	1.578	2.588	1.6	19.2	5 21	15 58.61	-25 17.9	1.370	2.379	2.3	19.6
5 31	15 48.74	-16 18.3	1.596	2.597	4.5	19.4	5 31	15 47.21	-25 25.5	1.376	2.379	4.6	19.8
6 10	15 40.22	-16 11.9	1.641	2.606	8.7	19.7	6 10	15 36.98	-25 26.6	1.407	2.379	9.2	20.0
6 20	15 33.61	-16 12.4	1.709	2.615	12.5	19.9	6 20	15 29.07	-25 25.1	1.462	2.378	13.5	20.3
6 30	15 29.49	-16 21.3	1.798	2.623	15.7	20.1	6 30	15 24.20	-25 25.1	1.536	2.378	17.2	20.5
<b>867</b>	Kovacia		5 22.3 111°94		0°7/22.7 18 R		<b>372369</b>	2009 <i>LC</i>		5 22.3 268°09		4°5/25.1 18	
4 21	16 20.68	-22 53.7	2.354	3.220	10.6	16.6	4 21	16 26.64	-35 46.2	1.959	2.792	13.8	20.5
5 1	16 14.51	-22 56.0	2.290	3.231	7.6	16.4	5 1	16 19.51	-35 16.7	1.852	2.764	10.9	20.2
5 11	16 6.80	-22 52.9	2.252	3.242	4.2	16.2	5 11	16 9.87	-34 26.3	1.768	2.735	7.6	20.0
5 21	15 58.22	-22 44.8	2.241	3.252	0.9	16.0	5 21	15 58.64	-33 13.4	1.710	2.705	4.9	19.7
5 31	15 49.61	-22 33.1	2.259	3.262	3.1	16.1	5 31	15 47.05	-31 40.0	1.680	2.675	5.3	19.7
6 10	15 41.78	-22 20.0	2.305	3.272	6.4	16.4	6 10	15 36.45	-29 52.4	1.678	2.644	8.5	19.8
6 20	15 35.40	-22 8.0	2.377	3.282	9.5	16.6	6 20	15 27.92	-27 59.2	1.702	2.612	12.3	20.0
6 30	15 30.92	-21 59.4	2.472	3.292	12.1	16.8	6 30	15 22.17	-26 9.7	1.750	2.579	15.9	20.1
<b>418025</b>	2007 <i>UZ</i> <sub>87</sub>		5 22.3 245°20		0°8/22.6 17		<b>412243</b>	2013 <i>HA</i> <sub>27</sub>		5 22.3 323°22		0°2/22.2 17	
4 21	16 25.52	-22 58.5	1.779	2.650	13.3	22.3	4 21	16 22.01	-21 59.8	1.306	2.198	15.7	20.6
5 1	16 18.69	-22 59.0	1.690	2.633	9.7	22.1	5 1	16 16.51	-21 30.9	1.239	2.193	11.3	20.4
5 11	16 9.43	-22 52.3	1.624	2.615	5.5	21.8	5 11	16 8.30	-20 52.5	1.194	2.189	6.2	20.1
5 21	15 58.57	-22 38.2	1.585	2.597	1.1	21.4	5 21	15 58.45	-20 6.8	1.173	2.185	0.7	19.7
5 31	15 47.28	-22 18.2	1.574	2.577	4.1	21.6	5 31	15 48.39	-19 18.4	1.177	2.182	4.9	20.0
6 10	15 36.85	-21 55.5	1.589	2.557	8.7	21.8	6 10	15 39.63	-18 33.3	1.205	2.178	10.2	20.3
6 20	15 28.34	-21 34.4	1.629	2.537	12.9	22.0	6 20	15 33.26	-17 57.0	1.254	2.175	15.0	20.5
6 30	15 22.52	-21 18.7	1.689	2.516	16.5	22.2	6 30	15 29.99	-17 33.4	1.322	2.172	18.9	20.8
<b>300928</b>	Uderzo		5 22.3 226°63		0°3/22.2 16		<b>406816</b>	2008 <i>WE</i> <sub>73</sub>		5 22.3 70°09		1°6/22.9 17	
4 21	16 18.96	-20 43.8	2.300	3.173	10.6	21.4	4 21	16 25.02	-25 51.4	1.258	2.143	16.7	20.9
5 1	16 13.39	-20 26.5	2.225	3.170	7.5	21.2	5 1	16 18.48	-25 30.3	1.211	2.160	12.1	20.7
5 11	16 6.24	-20 4.6	2.175	3.167	4.1	21.0	5 11	16 9.22	-24 55.7	1.185	2.177	6.9	20.5
5 21	15 58.18	-19 39.3	2.152	3.164	0.5	20.7	5 21	15 58.54	-24 9.5	1.183	2.194	2.0	20.2
5 31	15 50.01	-19 12.9	2.158	3.161	3.3	20.9	5 31	15 48.02	-23 16.1	1.206	2.211	4.7	20.4
6 10	15 42.56	-18 48.0	2.192	3.158	6.8	21.1	6 10	15 39.15	-22 22.4	1.253	2.228	9.7	20.8
6 20	15 36.50	-18 27.3	2.250	3.154	10.0	21.3	6 20	15 32.92	-21 34.9	1.322	2.245	14.2	21.1
6 30	15 32.32	-18 13.0	2.332	3.151	12.8	21.5	6 30	15 29.86	-20 58.1	1.411	2.262	17.9	21.4
<b>168884</b>	2000 <i>WB</i> <sub>71</sub>		5 22.3 148°47		2°0/23.4 18		<b>284430</b>	2007 <i>DQ</i> <sub>10</sub>		5 22.3 82°38		2°8/23.6 17	
4 21	16 24.63	-27 59.7	1.621	2.488	14.5	19.9	4 21	16 26.16	-28 19.0	1.723	2.585	14.1	21.5
5 1	16 17.91	-27 29.0	1.555	2.494	10.6	19.7	5 1	16 18.75	-28 27.7	1.677	2.611	10.4	21.4
5 11	16 8.85	-26 43.9	1.512	2.499	6.3	19.5	5 11	16 9.19	-28 24.3	1.654	2.637	6.3	21.2
5 21	15 58.48	-25 45.6	1.494	2.503	2.3	19.2	5 21	15 58.53	-28 8.5	1.657	2.663	3.1	21.0
5 31	15 48.11	-24 38.3	1.504	2.508	4.2	19.4	5 31	15 48.03	-27 42.3	1.687	2.688	4.3	21.2
6 10	15 39.02	-23 28.3	1.540	2.512	8.6	19.6	6 10	15 38.88	-27 9.9	1.744	2.713	8.0	21.4
6 20	15 32.13	-22 22.3	1.600	2.515	12.7	19.9	6 20	15 31.89	-26 36.3	1.826	2.738	11.5	21.7
6 30	15 28.02	-21 25.7	1.681	2.518	16.1	20.1	6 30	15 27.56	-26 6.2	1.928	2.762	14.5	21.9
<b>338761</b>	2003 <i>UU</i> <sub>210</sub>		5 22.3 264°33		1°1/22.9 18		<b>110559</b>	2001 <i>TC</i> <sub>107</sub>		5 22.3 165°62		0°1/22.3 18	
4 21	16 21.90	-24 24.5	2.141	3.007	11.5	21.9	4 21	16 25.12	-19 33.5	2.071	2.939	11.8	19.0
5 1	16 15.79	-24 20.8	2.046	2.986	8.4	21.6	5 1	16 17.92	-19 54.0	2.000	2.943	8.4	18.8
5 11	16 7.72	-24 9.5	1.976	2.965	4.9	21.4	5 11	16 8.79	-20 11.8	1.955	2.946	4.6	18.6
5 21	15 58.37	-23 50.8	1.933	2.943	1.4	21.1	5 21	15 58.51	-20 26.7	1.938	2.950	0.5	18.3
5 31	15 48.68	-23 26.1	1.918	2.921	3.5	21.2	5 31	15 48.07	-20 39.0	1.949	2.952	3.5	18.5
6 10	15 39.69	-22 58.3	1.930	2.899	7.4	21.4	6 10	15 38.49	-20 50.3	1.989	2.955	7.4	18.8
6 20	15 32.24	-22 31.1	1.968	2.876	11.0	21.6	6 20	15 30.59	-21 2.3	2.055	2.956	10.9	19.0
6 30	15 26.98	-22 8.1	2.028	2.852	14.2	21.7	6 30	15 24.94	-21 17.1	2.142	2.958	13.9	19.2
<b>230115</b>	2001 <i>BO</i> <sub>76</sub>		5 22.3 39°03		1°7/23.3 17		<b>231545</b>	2008 <i>SR</i> <sub>244</sub>		5 22.3			

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5 22.3

5 22.3

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>235769</b>	2004 <i>VJ</i> <sub>21</sub>		5 22.3 180°26	0°6/21.9	17		<b>417102</b>	2005 <i>UH</i> <sub>380</sub>		5 22.3 97°08	2°1/21.1	15	
4 21	16 21.67	-19 15.1	2.280	3.150	10.8	21.6	4 21	16 22.59	-17 24.7	1.936	2.812	12.1	22.1
5 1	16 15.29	-19 1.8	2.207	3.152	7.7	21.4	5 1	16 15.86	-16 28.0	1.890	2.837	8.5	21.9
5 11	16 7.29	-18 45.0	2.160	3.152	4.2	21.1	5 11	16 7.51	-15 28.5	1.869	2.861	4.7	21.7
5 21	15 58.34	-18 25.9	2.141	3.152	0.7	20.9	5 21	15 58.37	-14 29.6	1.876	2.885	2.1	21.6
5 31	15 49.29	-18 6.4	2.150	3.152	3.5	21.1	5 31	15 49.42	-13 35.7	1.911	2.908	4.6	21.8
6 10	15 41.02	-17 49.1	2.188	3.151	7.0	21.3	6 10	15 41.54	-12 50.6	1.974	2.930	8.1	22.1
6 20	15 34.19	-17 36.2	2.251	3.150	10.2	21.5	6 20	15 35.39	-12 16.9	2.061	2.952	11.4	22.3
6 30	15 29.32	-17 29.7	2.337	3.148	13.0	21.7	6 30	15 31.37	-11 55.8	2.170	2.974	14.1	22.5
<b>145207</b>	2005 <i>JS</i> <sub>36</sub>		5 22.3 334°18	2°7/21.4	18		<b>358448</b>	2007 <i>EC</i> <sub>35</sub>		5 22.3 126°54	1°8/21.1	18	
4 21	16 18.57	-16 11.5	1.180	2.086	16.0	19.4	4 21	16 17.80	-14 34.2	3.081	3.950	8.3	22.6
5 1	16 14.31	-15 47.1	1.111	2.071	11.5	19.1	5 1	16 12.13	-14 9.8	3.023	3.966	5.9	22.5
5 11	16 7.24	-15 20.6	1.062	2.058	6.5	18.8	5 11	16 5.41	-13 45.4	2.993	3.982	3.4	22.3
5 21	15 58.36	-14 55.3	1.035	2.045	2.7	18.5	5 21	15 58.14	-13 22.5	2.991	3.997	1.8	22.2
5 31	15 49.09	-14 35.6	1.032	2.034	6.2	18.7	5 31	15 50.90	-13 2.9	3.019	4.012	3.3	22.3
6 10	15 40.98	-14 25.9	1.051	2.023	11.5	18.9	6 10	15 44.24	-12 48.1	3.075	4.027	5.8	22.5
6 20	15 35.25	-14 29.0	1.090	2.014	16.4	19.2	6 20	15 38.61	-12 39.3	3.159	4.041	8.1	22.7
6 30	15 32.71	-14 46.4	1.147	2.006	20.6	19.4	6 30	15 34.36	-12 37.3	3.265	4.054	10.1	22.9
<b>438996</b>	2010 <i>TN</i> <sub>99</sub>		5 22.3 331°08	7°9/16.2	16		<b>350308</b>	2012 <i>US</i> <sub>46</sub>		5 22.3 195°61	1°3/21.6	17	
4 21	16 15.89	- 0 28.0	2.081	2.950	11.7	20.6	4 21	16 19.94	-17 44.7	2.164	3.041	11.0	21.3
5 1	16 11.24	+ 1 8.8	2.022	2.944	9.6	20.4	5 1	16 14.14	-17 22.5	2.093	3.040	7.8	21.1
5 11	16 5.09	+ 2 36.7	1.987	2.938	8.1	20.3	5 11	16 6.70	-16 57.7	2.046	3.038	4.3	20.9
5 21	15 58.08	+ 3 49.6	1.978	2.932	8.1	20.3	5 21	15 58.30	-16 31.9	2.026	3.037	1.3	20.6
5 31	15 51.00	+ 4 42.6	1.995	2.926	9.5	20.4	5 31	15 49.81	-16 7.7	2.035	3.035	3.8	20.8
6 10	15 44.63	+ 5 13.1	2.035	2.921	11.7	20.5	6 10	15 42.09	-15 47.7	2.071	3.033	7.4	21.0
6 20	15 39.60	+ 5 21.0	2.097	2.916	14.0	20.6	6 20	15 35.82	-15 34.2	2.133	3.031	10.7	21.2
6 30	15 36.38	+ 5 8.0	2.177	2.912	16.0	20.8	6 30	15 31.53	-15 28.9	2.216	3.029	13.5	21.4
<b>369022</b>	2007 <i>TO</i> <sub>397</sub>		5 22.3 289°23	3°0/21.5	18		<b>400511</b>	2008 <i>RF</i> <sub>89</sub>		5 22.3 254°14	5°0/24.2	16	
4 21	16 23.99	-13 43.0	1.369	2.259	15.2	20.3	4 21	16 27.48	-32 5.0	1.504	2.362	16.0	22.0
5 1	16 18.06	-13 40.8	1.287	2.240	11.1	20.0	5 1	16 20.71	-32 25.2	1.418	2.346	12.4	21.7
5 11	16 9.30	-13 41.2	1.228	2.220	6.5	19.7	5 11	16 10.82	-32 28.9	1.353	2.329	8.4	21.5
5 21	15 58.62	-13 46.1	1.192	2.201	3.0	19.4	5 21	15 58.83	-32 12.8	1.312	2.312	5.3	21.2
5 31	15 47.36	-13 57.8	1.182	2.182	6.1	19.5	5 31	15 46.27	-31 36.9	1.297	2.294	6.2	21.2
6 10	15 37.05	-14 18.3	1.197	2.162	11.2	19.8	6 10	15 34.87	-30 45.7	1.307	2.275	10.1	21.4
6 20	15 28.97	-14 48.8	1.232	2.143	16.0	20.0	6 20	15 25.99	-29 46.9	1.339	2.256	14.5	21.6
6 30	15 23.99	-15 29.9	1.287	2.124	20.1	20.2	6 30	15 20.53	-28 49.2	1.392	2.237	18.4	21.8
<b>200038</b>	2007 <i>RZ</i> <sub>130</sub>		5 22.3 163°67	0°6/22.6	18		<b>427654</b>	2003 <i>YZ</i> <sub>40</sub>		5 22.3 200°07	4°4/20.5	17	
4 21	16 20.57	-22 58.8	2.051	2.923	11.7	20.9	4 21	16 24.01	- 8 29.8	2.053	2.922	11.8	21.8
5 1	16 14.70	-22 47.7	1.980	2.924	8.4	20.7	5 1	16 17.08	- 8 7.3	1.980	2.918	8.8	21.6
5 11	16 7.03	-22 30.1	1.933	2.924	4.7	20.5	5 11	16 8.33	- 7 49.5	1.933	2.914	5.8	21.4
5 21	15 58.32	-22 6.7	1.914	2.925	0.9	20.2	5 21	15 58.51	- 7 39.1	1.912	2.908	4.4	21.3
5 31	15 49.51	-21 39.7	1.922	2.926	3.4	20.4	5 31	15 48.52	- 7 38.6	1.920	2.902	6.1	21.4
6 10	15 41.55	-21 12.3	1.957	2.926	7.3	20.6	6 10	15 39.33	- 7 49.3	1.955	2.895	9.2	21.6
6 20	15 35.21	-20 47.8	2.018	2.927	10.7	20.8	6 20	15 31.71	- 8 11.6	2.014	2.887	12.4	21.8
6 30	15 31.01	-20 29.0	2.100	2.927	13.7	21.0	6 30	15 26.22	- 8 44.9	2.095	2.879	15.1	21.9
<b>44313</b>	1998 <i>RV</i> <sub>12</sub>		5 22.3 205°94	2°6/20.9	18		<b>175628</b>	2007 <i>RW</i> <sub>275</sub>		5 22.3 185°14	2°4/20.9	18	
4 21	16 19.47	-15 2.8	1.985	2.866	11.6	19.0	4 21	16 19.47	-15 26.3	2.036	2.916	11.4	20.3
5 1	16 13.88	-14 22.4	1.916	2.865	8.3	18.8	5 1	16 13.85	-14 46.2	1.968	2.916	8.1	20.1
5 11	16 6.57	-13 40.8	1.873	2.864	4.8	18.6	5 11	16 6.54	-14 4.5	1.925	2.916	4.7	19.8
5 21	15 58.27	-13 0.9	1.856	2.863	2.6	18.4	5 21	15 58.29	-13 24.2	1.909	2.916	2.4	19.7
5 31	15 49.89	-12 26.2	1.867	2.862	4.9	18.6	5 31	15 49.96	-12 48.5	1.920	2.916	4.7	19.8
6 10	15 42.34	-11 59.8	1.904	2.860	8.4	18.8	6 10	15 42.46	-12 20.8	1.959	2.915	8.2	20.1
6 20	15 36.34	-11 44.0	1.966	2.859	11.7	19.0	6 20	15 36.47	-12 3.1	2.022	2.914	11.5	20.3
6 30	15 32.40	-11 39.8	2.048	2.857	14.6	19.2	6 30	15 32.50	-11 56.7	2.106	2.914	14.3	20.4
<b>177334</b>	2003 <i>YW</i> <sub>78</sub>		5 22.3 215°15	2°4/23.5	17		<b>512418</b>	2016 <i>PV</i> <sub>86</sub>		5 22.3 155°43	3°4/25.3	18	
4 21	16 24.97	-27 57.1	1.926	2.785	12.9	21.3	4 21	16 21.82	-35 47.9	2.784	3.606	10.5	21.5
5 1	16 18.09	-27 52.1	1.844	2.777	9.6	21.1	5 1	16 15.20	-35 13.6	2.706	3.611	8.1	21.3
5 11	16 9.01	-27 35.5	1.786	2.770	5.9	20.8	5 11	16 7.14	-34 25.2	2.653	3.616	5.6	21.2
5 21	15 58.57	-27 7.1	1.754	2.761	2.6	20.6	5 21	15 58.35	-33 23.3	2.628	3.621	3.7	21.0
5 31	15 47.90	-26 28.5	1.750	2.752	4.1	20.7	5 31	15 49.64	-32 10.1	2.633	3.626	3.9	21.1
6 10	15 38.19	-25 44.0	1.773	2.742	7.9	20.9	6 10	15 41.78	-30 49.9	2.668	3.630	6.0	21.2
6 20	15 30.38	-24 58.5	1.822	2.731	11.7	21.1	6 20	15 35.37	-29 27.5	2.730	3.634	8.5	21.4
6 30	15 25.09	-24 17.2	1.892	2.720	14.9	21.3	6 30	15 30.82	-28 7.9	2.816	3.637	10.8	21.5
<b>177091</b>	2003 <i>FX</i> <sub>73</sub>		5 22.3 13°02	4°4/19.6	18		<b>321716</b>	2010 <i>HX</i> <sub>21</sub>		5 22.3 196°22	0°5/21.8	18	
4 21	16 17.35	- 9 6.5	2.214	3.092	10.7	19.9	4 21	16 11.61	-18 27.6	4.560	5.427	5.8	21.0
5 1	16 12.19	- 8 15.0	2.150	3.092	7.9	19.7	5 1	16 7.62	-18 10.3	4.483	5.426	4.1	20.9
5 11	16 5.58	- 7 26.8	2.111	3.092	5.4	19.5	5 11	16 2.93	-17 51.6	4.434	5.426	2.2	20.8
5 21	15 58.15	- 6 45.4	2.099	3.092	4.4	19.4	5 21	15 57.86	-17 32.2	4.414	5.425	0.6	20.6
5 31	15 50.67	- 6 14.1	2.115	3.092	6.0	19.5	5 31	15 52.75	-17 13.3	4.424	5.424	1.9	20.7
6 10	15 43.90	- 5 55.3	2.156	3.093	8.7	19.7	6 10	15 47.97	-16 56.1	4.463	5.423	3.8	20.9
6 20	15 38.46	- 5 50.1	2.222	3.093	11.5	19.9	6 20	15 43.81	-16 41.6	4.530	5.423	5.6	21.0
6 30	15 34.80	- 5 58.1	2.309	3.093	13.9	20.1	6 30	15 40.53	-16 30.8	4.621	5.422	7.2	21.1
<b>100934</b>	Marthanussbaum		5 22.3 338°49	0°7/22.1	17		<b>301046</b>	2008 <i>TZ</i>					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>439368</b>	2013 <i>AU</i> <sub>7</sub>		5 22.3 197°74	4.4/19.5	16		<b>125216</b>	2001 <i>UB</i> <sub>152</sub>		5 22.3 305°91	0.8/22.1	18	
4 21	16 18.15	- 5 53.6	2.687	3.553	9.5	21.8	4 21	16 21.64	-18 34.0	1.489	2.379	14.3	19.5
5 1	16 12.58	- 5 19.8	2.618	3.550	7.2	21.7	5 1	16 16.24	-18 35.2	1.406	2.359	10.3	19.2
5 11	16 5.75	- 4 51.0	2.574	3.547	5.2	21.5	5 11	16 8.27	-18 33.6	1.346	2.340	5.7	18.8
5 21	15 58.21	- 4 29.9	2.559	3.543	4.4	21.5	5 21	15 58.57	-18 29.9	1.310	2.321	1.0	18.5
5 31	15 50.59	- 4 18.7	2.571	3.540	5.7	21.6	5 31	15 48.39	-18 26.2	1.299	2.303	4.8	18.7
6 10	15 43.55	- 4 18.7	2.611	3.535	7.9	21.7	6 10	15 39.11	-18 25.2	1.313	2.285	9.8	18.9
6 20	15 37.62	- 4 30.1	2.675	3.531	10.2	21.8	6 20	15 31.88	-18 29.9	1.350	2.267	14.4	19.1
6 30	15 33.22	- 4 52.5	2.762	3.526	12.3	22.0	6 30	15 27.53	-18 42.5	1.406	2.249	18.4	19.3
<b>241408</b>	2008 <i>UB</i> <sub>91</sub>		5 22.3 282°41	0.6/22.5	17		<b>425788</b>	2011 <i>CO</i> <sub>78</sub>		5 22.3 124°62	1.8/21.4	17	
4 21	16 23.93	-21 1.7	1.848	2.721	12.7	20.0	4 21	16 22.69	-16 46.5	1.972	2.848	11.9	22.4
5 1	16 17.59	-21 25.9	1.755	2.699	9.2	19.7	5 1	16 16.08	-16 15.6	1.916	2.862	8.5	22.2
5 11	16 8.90	-21 47.0	1.686	2.677	5.2	19.4	5 11	16 7.73	-15 42.7	1.884	2.876	4.7	22.0
5 21	15 58.62	-22 4.0	1.643	2.655	0.9	19.0	5 21	15 58.47	-15 10.1	1.880	2.890	1.8	21.8
5 31	15 47.82	-22 17.1	1.628	2.632	4.0	19.2	5 31	15 49.26	-14 40.7	1.905	2.903	4.3	22.0
6 10	15 37.71	-22 27.9	1.641	2.609	8.4	19.4	6 10	15 41.02	-14 17.6	1.956	2.915	8.0	22.2
6 20	15 29.36	-22 38.4	1.677	2.587	12.5	19.6	6 20	15 34.46	-14 3.0	2.032	2.927	11.3	22.5
6 30	15 23.53	-22 51.7	1.735	2.564	16.1	19.8	6 30	15 30.06	-13 58.1	2.130	2.938	14.1	22.7
<b>315220</b>	2007 <i>RK</i> <sub>140</sub>		5 22.3 261°70	3.1/23.5	17		<b>278920</b>	2008 <i>TW</i> <sub>165</sub>		5 22.3 204°32	3.0/20.9	18	
4 21	16 25.57	-27 49.4	1.539	2.408	15.0	21.1	4 21	16 20.73	-13 1.5	2.031	2.909	11.5	20.8
5 1	16 19.15	-28 3.6	1.454	2.393	11.3	20.8	5 1	16 14.79	-12 35.4	1.961	2.907	8.3	20.6
5 11	16 9.90	-28 5.8	1.392	2.377	7.0	20.5	5 11	16 7.11	-12 10.3	1.916	2.905	5.0	20.3
5 21	15 58.75	-27 54.1	1.354	2.361	3.4	20.3	5 21	15 58.41	-11 48.6	1.897	2.902	3.0	20.2
5 31	15 47.11	-27 29.3	1.343	2.345	5.0	20.3	5 31	15 49.60	-11 33.1	1.906	2.899	5.0	20.3
6 10	15 36.51	-26 55.2	1.356	2.328	9.5	20.5	6 10	15 41.58	-11 26.0	1.942	2.896	8.4	20.5
6 20	15 28.21	-26 18.0	1.393	2.311	14.0	20.7	6 20	15 35.09	-11 28.6	2.003	2.892	11.7	20.7
6 30	15 23.05	-25 43.9	1.450	2.294	17.9	20.9	6 30	15 30.66	-11 41.6	2.084	2.888	14.6	20.9
<b>131347</b>	2001 <i>HE</i> <sub>58</sub>		5 22.3 90°10	3.5/20.9	18		<b>92007</b>	1999 <i>VS</i> <sub>155</sub>		5 22.3 141°70	0.1/22.4	18	
4 21	16 21.57	-10 59.8	1.900	2.779	12.2	19.1	4 21	16 18.61	-21 44.7	2.567	3.435	9.8	20.6
5 1	16 15.35	-10 46.3	1.844	2.789	8.8	19.0	5 1	16 13.02	-21 33.3	2.496	3.439	7.0	20.4
5 11	16 7.37	-10 36.5	1.812	2.799	5.4	18.8	5 11	16 6.04	-21 17.3	2.451	3.443	3.8	20.2
5 21	15 58.42	-10 32.4	1.807	2.810	3.5	18.7	5 21	15 58.28	-20 57.6	2.434	3.446	0.5	19.9
5 31	15 49.45	-10 36.1	1.829	2.820	5.4	18.8	5 31	15 50.46	-20 36.1	2.447	3.450	2.9	20.1
6 10	15 41.41	-10 48.8	1.878	2.830	8.8	19.0	6 10	15 43.31	-20 14.9	2.487	3.453	6.1	20.3
6 20	15 35.02	-11 10.9	1.950	2.840	12.0	19.2	6 20	15 37.42	-19 56.4	2.553	3.457	9.0	20.5
6 30	15 30.78	-11 42.1	2.044	2.850	14.8	19.5	6 30	15 33.23	-19 42.7	2.643	3.460	11.5	20.7
<b>342825</b>	2008 <i>XS</i> <sub>30</sub>		5 22.3 246°91	0.9/21.9	17		<b>260108</b>	2004 <i>OX</i> <sub>3</sub>		5 22.3 334°20	7.1/18.6	17	
4 21	16 20.87	-19 4.9	2.042	2.918	11.6	22.0	4 21	16 15.32	- 5 48.3	1.566	2.458	13.6	19.9
5 1	16 15.00	-18 46.3	1.961	2.908	8.3	21.8	5 1	16 11.43	- 4 43.7	1.490	2.435	10.5	19.7
5 11	16 7.27	-18 23.6	1.905	2.898	4.5	21.5	5 11	16 5.49	- 3 45.2	1.437	2.414	7.9	19.5
5 21	15 58.42	-17 58.5	1.876	2.887	0.9	21.2	5 21	15 58.24	- 2 59.1	1.407	2.393	7.2	19.4
5 31	15 49.36	-17 33.4	1.875	2.876	3.9	21.4	5 31	15 50.69	- 2 31.0	1.402	2.373	9.2	19.4
6 10	15 41.08	-17 11.2	1.901	2.865	7.8	21.6	6 10	15 43.95	- 2 24.4	1.419	2.354	12.4	19.6
6 20	15 34.34	-16 54.8	1.951	2.854	11.4	21.8	6 20	15 38.89	- 2 39.9	1.457	2.337	15.9	19.7
6 30	15 29.75	-16 46.3	2.024	2.842	14.4	22.0	6 30	15 36.20	- 3 16.0	1.513	2.320	19.0	19.9
<b>258900</b>	2002 <i>QH</i> <sub>86</sub>		5 22.3 184°83	2.1/21.3	17		<b>230088</b>	2000 <i>WJ</i> <sub>140</sub>		5 22.3 260°09	0.5/22.1	18	
4 21	16 22.60	-16 42.1	1.731	2.613	13.0	21.6	4 21	16 22.72	-19 15.0	1.993	2.867	11.9	20.8
5 1	16 16.34	-16 7.5	1.664	2.613	9.3	21.4	5 1	16 16.48	-19 12.3	1.903	2.849	8.6	20.6
5 11	16 8.02	-15 30.2	1.620	2.613	5.2	21.2	5 11	16 8.19	-19 6.1	1.838	2.830	4.7	20.3
5 21	15 58.50	-14 52.9	1.603	2.613	2.1	21.0	5 21	15 58.57	-18 57.2	1.799	2.811	0.7	19.9
5 31	15 48.88	-14 19.2	1.613	2.612	4.9	21.1	5 31	15 48.59	-18 47.3	1.789	2.791	3.9	20.1
6 10	15 40.26	-13 52.9	1.650	2.610	9.1	21.4	6 10	15 39.33	-18 38.6	1.805	2.771	8.0	20.4
6 20	15 33.50	-13 36.8	1.710	2.609	12.9	21.6	6 20	15 31.67	-18 34.0	1.847	2.751	11.8	20.5
6 30	15 29.16	-13 32.3	1.790	2.607	16.1	21.8	6 30	15 26.28	-18 35.5	1.910	2.730	15.1	20.7
<b>379795</b>	2011 <i>HF</i> <sub>84</sub>		5 22.3 123°51	1.4/21.9	18		<b>43809</b>	1991 <i>RE</i> <sub>14</sub>		5 22.3 301°70	6.9/24.6	18	
4 21	16 24.03	-15 36.3	1.966	2.840	12.1	20.7	4 21	16 24.63	-34 44.8	1.436	2.293	16.6	17.7
5 1	16 17.15	-15 50.0	1.903	2.849	8.6	20.5	5 1	16 18.92	-35 29.5	1.352	2.275	13.3	17.4
5 11	16 8.39	-16 4.0	1.865	2.857	4.8	20.2	5 11	16 9.99	-35 56.9	1.289	2.257	9.7	17.2
5 21	15 58.55	-16 18.8	1.854	2.865	1.5	20.0	5 21	15 58.82	-36 2.1	1.248	2.239	7.1	17.0
5 31	15 48.62	-16 35.2	1.872	2.872	4.1	20.2	5 31	15 46.98	-35 43.3	1.232	2.222	7.7	16.9
6 10	15 39.60	-16 54.4	1.917	2.880	7.9	20.5	6 10	15 36.29	-35 4.0	1.239	2.204	10.9	17.1
6 20	15 32.28	-17 17.3	1.987	2.887	11.3	20.7	6 20	15 28.21	-34 11.8	1.268	2.187	14.9	17.2
6 30	15 27.19	-17 44.9	2.080	2.894	14.3	20.9	6 30	15 23.71	-33 15.6	1.316	2.171	18.7	17.4
<b>387118</b>	2012 <i>TN</i> <sub>168</sub>		5 22.3 71°58	2.5/21.3	18		<b>384372</b>	2009 <i>UW</i> <sub>138</sub>		5 22.3 239°46	4.4/20.5	17	
4 21	16 20.39	-13 58.0	1.961	2.841	11.8	20.5	4 21	16 22.04	- 9 7.0	1.903	2.779	12.3	21.3
5 1	16 14.56	-13 45.1	1.896	2.844	8.4	20.3	5 1	16 15.87	- 8 42.5	1.828	2.770	9.1	21.0
5 11	16 6.98	-13 33.1	1.857	2.848	4.9	20.1	5 11	16 7.78	- 8 22.5	1.777	2.760	6.0	20.8
5 21	15 58.39	-13 23.9	1.844	2.851	2.5	20.0	5 21	15 58.52	- 8 10.0	1.752	2.750	4.4	20.7
5 31	15 49.71	-13 19.7	1.858	2.854	4.7	20.1	5 31	15 49.04	- 8 7.7	1.755	2.740	6.3	20.8
6 10	15 41.88	-13 22.3	1.899	2.858	8.2	20.3	6 10	15 40.36	- 8 17.4	1.784	2.729	9.6	21.0
6 20	15 35.63	-13 32.7	1.965	2.861	11.6	20.6	6 20	15 33.28	- 8 39.5	1.836	2.718	13.0	21.2
6 30	15 31.49	-13 51.6	2.051	2.865	14.4	20.8	6 30	15 28.42	- 9 13.5	1.910	2.707	16.0	21.3
<b>212527</b>	2006 <i>RY</i> <sub>71</sub>		5 22.3 221°64	0.7/22.7	16		<b>411749</b>						

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>230110</b>	2001 AL <sub>36</sub>		5 22.3 178°13	3°2/20.9	18		<b>16439</b>	Yamehoshinokawa		5 22.4 34°13	8°3/26.3	18	R
4 21	16 22.15	-10 48.6	2.281	3.151	10.8	20.5	4 21	16 25.30	-40 36.4	1.595	2.424	16.6	16.6
5 1	16 15.62	-10 36.7	2.212	3.152	7.8	20.3	5 1	16 18.98	-41 17.9	1.533	2.430	13.7	16.4
5 11	16 7.51	-10 27.8	2.168	3.153	4.8	20.1	5 11	16 9.75	-41 36.9	1.491	2.436	10.8	16.3
5 21	15 58.48	-10 23.7	2.152	3.154	3.2	20.0	5 21	15 58.78	-41 29.3	1.472	2.443	8.7	16.2
5 31	15 49.36	-10 26.2	2.165	3.154	4.9	20.1	5 31	15 47.65	-40 54.9	1.477	2.450	8.6	16.2
6 10	15 40.97	-10 36.6	2.206	3.154	7.9	20.3	6 10	15 37.99	-39 58.8	1.506	2.457	10.6	16.3
6 20	15 33.99	-10 55.2	2.272	3.153	10.9	20.5	6 20	15 30.95	-38 49.0	1.557	2.465	13.4	16.5
6 30	15 28.89	-11 22.2	2.361	3.152	13.4	20.6	6 30	15 27.22	-37 34.8	1.628	2.473	16.2	16.7
<b>59028</b>	1998 SV <sub>117</sub>		5 22.3 203°41	1°3/22.9	18		<b>48994</b>	2008 SV <sub>176</sub>		5 22.4 262°08	4°5/24.1	18	
4 21	16 24.03	-24 59.2	1.989	2.853	12.3	19.6	4 21	16 25.70	-32 43.4	2.158	2.997	12.5	21.5
5 1	16 17.32	-24 51.8	1.910	2.849	9.0	19.4	5 1	16 18.82	-33 17.1	2.058	2.974	9.7	21.3
5 11	16 8.58	-24 35.7	1.856	2.845	5.2	19.1	5 11	16 9.60	-33 39.2	1.983	2.951	6.8	21.0
5 21	15 58.62	-24 11.2	1.829	2.840	1.5	18.9	5 21	15 58.79	-33 46.9	1.934	2.927	4.7	20.9
5 31	15 48.47	-23 40.2	1.830	2.834	3.7	19.0	5 31	15 47.46	-33 39.5	1.912	2.903	5.3	20.9
6 10	15 39.23	-23 6.3	1.859	2.828	7.6	19.2	6 10	15 36.83	-33 18.8	1.918	2.878	8.1	21.0
6 20	15 31.76	-22 33.6	1.913	2.821	11.3	19.5	6 20	15 27.93	-32 49.2	1.950	2.852	11.4	21.1
6 30	15 26.64	-22 6.0	1.989	2.813	14.4	19.7	6 30	15 21.54	-32 16.0	2.003	2.826	14.4	21.3
<b>447849</b>	2007 UG <sub>132</sub>		5 22.3 221°02	3°9/18.6	18		<b>243686</b>	1999 XD <sub>138</sub>		5 22.4 261°78	0°1/22.3	18	
4 21	16 13.75	-3 9.5	3.882	4.739	7.0	21.9	4 21	16 18.63	-22 6.6	2.632	3.498	9.6	21.0
5 1	16 9.22	-2 33.2	3.808	4.730	5.5	21.8	5 1	16 13.14	-21 39.3	2.537	3.479	6.9	20.7
5 11	16 3.86	-2 1.5	3.761	4.721	4.3	21.7	5 11	16 6.19	-21 6.2	2.469	3.460	3.8	20.5
5 21	15 58.04	-1 36.3	3.742	4.712	3.9	21.7	5 21	15 58.36	-20 28.4	2.429	3.441	0.5	20.2
5 31	15 52.16	-1 19.4	3.752	4.703	4.8	21.7	5 31	15 50.34	-19 48.2	2.418	3.421	3.0	20.4
6 10	15 46.64	-1 11.7	3.789	4.693	6.3	21.8	6 10	15 42.89	-19 8.6	2.435	3.401	6.3	20.6
6 20	15 41.82	-1 13.5	3.851	4.683	7.9	21.9	6 20	15 36.64	-18 32.5	2.479	3.380	9.3	20.7
6 30	15 38.02	-1 24.8	3.936	4.673	9.4	22.0	6 30	15 32.07	-18 2.6	2.546	3.359	12.0	20.9
<b>296496</b>	2009 JL <sub>6</sub>		5 22.3 328°47	4°9/19.4	17		<b>349371</b>	2007 VQ <sub>283</sub>		5 22.4 221°03	0°1/22.4	18	
4 21	16 17.11	-8 25.4	2.020	2.902	11.4	20.1	4 21	16 20.52	-21 14.3	2.255	3.125	10.9	21.6
5 1	16 12.21	-7 30.5	1.953	2.896	8.6	20.0	5 1	16 14.62	-21 7.1	2.177	3.121	7.8	21.4
5 11	16 5.70	-6 39.4	1.911	2.891	5.9	19.8	5 11	16 7.04	-20 55.3	2.124	3.116	4.3	21.2
5 21	15 58.27	-5 56.2	1.894	2.886	5.0	19.7	5 21	15 58.47	-20 39.5	2.099	3.111	0.5	20.9
5 31	15 50.74	-5 24.7	1.905	2.881	6.7	19.8	5 31	15 49.75	-20 21.5	2.103	3.106	3.3	21.1
6 10	15 43.95	-5 7.6	1.941	2.877	9.5	20.0	6 10	15 41.75	-20 3.9	2.134	3.100	6.9	21.3
6 20	15 38.58	-5 5.7	2.000	2.872	12.5	20.1	6 20	15 35.19	-19 49.1	2.190	3.095	10.2	21.5
6 30	15 35.13	-5 18.8	2.079	2.868	15.1	20.3	6 30	15 30.60	-19 39.5	2.269	3.089	13.0	21.7
<b>341244</b>	2007 RD <sub>189</sub>		5 22.3 258°90	4°9/25.2	16		<b>86380</b>	2000 AD <sub>40</sub>		5 22.4 257°38	2°6/23.3	18	
4 21	16 23.17	-36 0.1	2.140	2.972	12.8	21.3	4 21	16 26.12	-26 41.7	1.433	2.307	15.7	19.6
5 1	16 16.86	-36 3.3	2.050	2.958	10.2	21.1	5 1	16 19.69	-26 48.9	1.351	2.293	11.6	19.3
5 11	16 8.40	-35 50.4	1.983	2.944	7.3	20.9	5 11	16 10.29	-26 44.1	1.291	2.279	7.1	19.0
5 21	15 58.60	-35 19.8	1.941	2.930	5.2	20.7	5 21	15 58.91	-26 25.7	1.255	2.263	2.9	18.7
5 31	15 48.57	-34 32.2	1.927	2.915	5.5	20.7	5 31	15 47.02	-25 55.1	1.244	2.248	5.0	18.8
6 10	15 39.44	-33 31.7	1.939	2.900	7.9	20.8	6 10	15 36.26	-25 17.0	1.259	2.232	9.9	19.0
6 20	15 32.13	-32 24.0	1.977	2.885	11.0	21.0	6 20	15 27.93	-24 37.8	1.296	2.216	14.7	19.2
6 30	15 27.28	-31 15.4	2.037	2.870	13.9	21.1	6 30	15 22.90	-24 3.7	1.353	2.199	18.8	19.4
<b>293008</b>	2006 WW <sub>35</sub>		5 22.4 314°95	3°4/20.9	16		<b>510278</b>	2011 KN <sub>10</sub>		5 22.4 320°23	9°4/18.6	18	
4 21	16 19.08	-11 42.6	1.898	2.781	12.0	20.4	4 21	16 20.41	+ 2 59.4	1.704	2.565	14.2	21.1
5 1	16 13.82	-11 27.3	1.820	2.768	8.7	20.2	5 1	16 14.81	+ 3 40.2	1.642	2.557	11.8	20.9
5 11	16 6.70	-11 14.9	1.766	2.755	5.4	20.0	5 11	16 7.25	+ 4 4.9	1.602	2.549	9.9	20.8
5 21	15 58.41	-11 7.6	1.738	2.742	3.4	19.8	5 21	15 58.51	+ 4 8.4	1.585	2.541	9.5	20.8
5 31	15 49.88	-11 7.8	1.737	2.729	5.4	19.9	5 31	15 49.61	+ 3 47.5	1.592	2.534	10.7	20.8
6 10	15 42.08	-11 17.4	1.761	2.717	9.0	20.1	6 10	15 41.60	+ 3 2.1	1.623	2.527	13.1	20.9
6 20	15 35.84	-11 37.1	1.810	2.705	12.5	20.3	6 20	15 35.30	+ 1 54.9	1.675	2.520	15.8	21.1
6 30	15 31.74	-12 7.0	1.879	2.693	15.5	20.5	6 30	15 31.29	+ 0 30.0	1.745	2.514	18.3	21.3
<b>225893</b>	2001 YE <sub>127</sub>		5 22.4 121°29	1°5/22.9	17		<b>476378</b>	2008 CD <sub>43</sub>		5 22.4 38°87	4°4/24.5	16	
4 21	16 23.76	-24 39.7	1.850	2.719	12.9	20.6	4 21	16 21.92	-33 2.2	2.153	2.997	12.3	21.2
5 1	16 17.15	-24 46.5	1.787	2.727	9.4	20.4	5 1	16 15.84	-33 29.0	2.082	3.000	9.5	21.0
5 11	16 8.48	-24 45.3	1.747	2.735	5.4	20.1	5 11	16 7.80	-33 43.3	2.035	3.003	6.7	20.8
5 21	15 58.61	-24 36.0	1.733	2.743	1.7	19.9	5 21	15 58.58	-33 43.6	2.014	3.007	4.6	20.7
5 31	15 48.67	-24 20.1	1.747	2.750	3.8	20.1	5 31	15 49.20	-33 30.2	2.020	3.010	5.0	20.7
6 10	15 39.76	-24 0.7	1.788	2.757	7.7	20.3	6 10	15 40.72	-33 5.8	2.052	3.014	7.5	20.9
6 20	15 32.73	-23 41.5	1.853	2.764	11.4	20.5	6 20	15 33.96	-32 34.7	2.110	3.018	10.4	21.1
6 30	15 28.16	-23 26.1	1.940	2.771	14.5	20.8	6 30	15 29.50	-32 1.7	2.189	3.022	13.0	21.3
<b>167730</b>	2004 WU <sub>5</sub>		5 22.4 351°30	2°1/21.6	17		<b>381869</b>	2010 AC <sub>9</sub>		5 22.4 60°98	1°8/23.3	17	
4 21	16 17.79	-18 27.0	1.004	1.917	17.4	19.4	4 21	16 21.52	-26 46.1	1.765	2.636	13.4	21.2
5 1	16 14.02	-17 54.3	0.945	1.910	12.5	19.1	5 1	16 15.64	-26 31.1	1.701	2.642	9.8	21.0
5 11	16 7.20	-17 15.6	0.906	1.904	6.9	18.8	5 11	16 7.69	-26 4.9	1.660	2.648	5.8	20.8
5 21	15 58.48	-16 34.9	0.888	1.899	2.1	18.5	5 21	15 58.57	-25 28.5	1.645	2.655	2.1	20.5
5 31	15 49.48	-15 58.0	0.891	1.895	6.2	18.7	5 31	15 49.41	-24 44.7	1.657	2.661	3.9	20.7
6 10	15 41.93	-15 31.0	0.916	1.893	12.0	19.0	6 10	15 41.34	-23 58.0	1.696	2.668	7.9	20.9
6 20	15 37.05	-15 18.2	0.960	1.893	17.2	19.3	6 20	15 35.19	-23 13.5	1.758	2.675	11.6	21.2
6 30	15 35.61	-15 21.6	1.020	1.893	21.6	19.6	6 30	15 31.51	-22 35.3	1.842	2.681	14.8	21.4
<b>300030</b>	2006 UX <sub>101</sub>		5 22.4 279°69	3°7/20.0	16		<b>347819</b>	2002 OX <sub>6</sub>		5 22.4 274°45	3°3/20.4	16	
4 21	16 17.78	-11 49.3											



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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>326165</b>	2012 <i>BH</i> <sub>99</sub>	5 22.4 228°77'		3°8'/24.0 17			<b>122697</b>	2000 <i>SL</i> <sub>16</sub>	5 22.4 207°00'		1°3'/23.1 17		
4 21	16 25.90	-30 36.7	1.679	2.536	14.6	21.1	4 21	16 22.91	-25 34.5	2.360	3.217	10.9	21.5
5 1	16 19.17	-30 44.2	1.599	2.529	11.1	20.8	5 1	16 16.32	-25 24.6	2.276	3.211	8.0	21.3
5 11	16 9.83	-30 37.3	1.542	2.521	7.2	20.6	5 11	16 8.00	-25 6.6	2.218	3.204	4.6	21.1
5 21	15 58.85	-30 14.2	1.509	2.512	4.1	20.4	5 21	15 58.65	-24 40.7	2.187	3.197	1.5	20.8
5 31	15 47.57	-29 36.1	1.504	2.503	5.1	20.4	5 31	15 49.13	-24 8.8	2.186	3.189	3.2	20.9
6 10	15 37.40	-28 47.7	1.524	2.493	8.9	20.6	6 10	15 40.37	-23 33.9	2.213	3.180	6.7	21.1
6 20	15 29.45	-27 55.3	1.568	2.483	12.9	20.8	6 20	15 33.09	-22 59.6	2.266	3.171	9.9	21.3
6 30	15 24.44	-27 5.7	1.634	2.473	16.4	21.0	6 30	15 27.83	-22 29.2	2.343	3.161	12.7	21.5
<b>308039</b>	2004 <i>SA</i> <sub>44</sub>	5 22.4 225°38'		2°6'/23.5 14 C			<b>257928</b>	2000 <i>WL</i> <sub>96</sub>	5 22.4 121°47'		0°6'/22.1 18		
4 21	16 25.86	-28 17.2	1.669	2.533	14.4	22.0	4 21	16 25.49	-20 2.1	1.709	2.584	13.5	20.9
5 1	16 19.08	-28 6.1	1.589	2.525	10.7	21.8	5 1	16 18.35	-19 45.3	1.653	2.600	9.6	20.7
5 11	16 9.75	-27 41.4	1.530	2.515	6.5	21.5	5 11	16 9.13	-19 23.4	1.622	2.615	5.2	20.5
5 21	15 58.85	-27 2.5	1.498	2.505	2.8	21.3	5 21	15 58.78	-18 58.0	1.617	2.629	0.8	20.2
5 31	15 47.67	-26 11.9	1.492	2.495	4.5	21.3	5 31	15 48.47	-18 32.0	1.640	2.643	4.1	20.5
6 10	15 37.60	-25 14.9	1.513	2.484	8.8	21.6	6 10	15 39.35	-18 8.9	1.690	2.656	8.4	20.7
6 20	15 29.69	-24 18.0	1.558	2.472	13.0	21.8	6 20	15 32.25	-17 51.8	1.764	2.669	12.2	21.0
6 30	15 24.67	-23 27.2	1.624	2.460	16.6	22.0	6 30	15 27.69	-17 43.1	1.859	2.681	15.4	21.2
<b>183711</b>	2003 <i>YG</i> <sub>58</sub>	5 22.4 128°15'		1°4'/21.7 18			<b>6104</b>	Takao	5 22.4 301°37'		1°1'/22.9 18		
4 21	16 24.27	-18 1.2	1.799	2.676	12.9	21.0	4 21	16 20.82	-24 20.1	1.742	2.618	13.2	16.7
5 1	16 17.39	-17 36.3	1.742	2.689	9.1	20.8	5 1	16 15.32	-24 8.3	1.663	2.609	9.6	16.4
5 11	16 8.57	-17 8.1	1.710	2.702	5.0	20.5	5 11	16 7.64	-23 47.4	1.608	2.599	5.5	16.2
5 21	15 58.68	-16 38.8	1.704	2.715	1.4	20.3	5 21	15 58.61	-23 18.1	1.579	2.590	1.4	15.8
5 31	15 48.83	-16 11.4	1.726	2.726	4.3	20.5	5 31	15 49.35	-22 43.0	1.576	2.580	3.9	16.0
6 10	15 40.07	-15 49.2	1.775	2.738	8.4	20.8	6 10	15 41.02	-22 6.2	1.599	2.571	8.3	16.2
6 20	15 33.18	-15 34.7	1.848	2.748	12.0	21.1	6 20	15 34.54	-21 32.1	1.646	2.562	12.3	16.5
6 30	15 28.66	-15 29.7	1.942	2.758	15.1	21.3	6 30	15 30.58	-21 4.7	1.714	2.554	15.7	16.7
<b>427508</b>	2002 <i>DK</i> <sub>16</sub>	5 22.4 158°14'		6°1'/18.7 17			<b>504743</b>	2009 <i>VH</i> <sub>113</sub>	5 22.4 94°87'		1°2'/21.6 17		
4 21	16 20.88	- 2 16.0	2.360	3.218	10.9	21.8	4 21	16 21.14	-21 6.0	1.732	2.613	13.1	21.0
5 1	16 14.60	- 1 23.5	2.305	3.226	8.6	21.6	5 1	16 15.27	-19 59.4	1.669	2.619	9.3	20.8
5 11	16 6.92	- 0 39.1	2.275	3.234	6.7	21.5	5 11	16 7.45	-18 44.5	1.631	2.624	5.0	20.6
5 21	15 58.49	- 0 6.6	2.272	3.241	6.2	21.5	5 21	15 58.58	-17 25.5	1.618	2.630	1.2	20.3
5 31	15 50.06	+ 0 11.2	2.296	3.247	7.4	21.6	5 31	15 49.74	-16 7.9	1.634	2.635	4.4	20.6
6 10	15 42.37	+ 0 13.1	2.347	3.252	9.5	21.7	6 10	15 41.98	-14 57.6	1.676	2.641	8.7	20.8
6 20	15 36.01	- 0 0.6	2.422	3.257	11.8	21.9	6 20	15 36.07	-13 59.4	1.742	2.646	12.4	21.1
6 30	15 31.40	- 0 28.5	2.516	3.261	13.9	22.1	6 30	15 32.52	-13 16.1	1.830	2.651	15.6	21.3
<b>282769</b>	2006 <i>HC</i> <sub>106</sub>	5 22.4 124°75'		3°7'/20.2 18			<b>205165</b>	2000 <i>AS</i> <sub>149</sub>	5 22.4 240°20'		0°3'/22.2 18		
4 21	16 20.11	-11 39.4	2.074	2.952	11.3	20.9	4 21	16 20.93	-21 33.2	2.303	3.171	10.7	20.3
5 1	16 14.22	-10 48.5	2.017	2.961	8.2	20.8	5 1	16 14.94	-20 58.5	2.214	3.157	7.7	20.1
5 11	16 6.76	- 9 59.2	1.985	2.971	5.2	20.6	5 11	16 7.27	-20 17.3	2.150	3.142	4.2	19.8
5 21	15 58.47	- 9 15.1	1.980	2.980	3.7	20.5	5 21	15 58.57	-19 31.1	2.115	3.127	0.6	19.5
5 31	15 50.19	- 8 39.8	2.003	2.989	5.6	20.6	5 31	15 49.70	-18 42.9	2.108	3.111	3.4	19.7
6 10	15 42.77	- 8 15.8	2.053	2.997	8.6	20.8	6 10	15 41.52	-17 56.4	2.130	3.094	7.1	19.9
6 20	15 36.84	- 8 4.5	2.127	3.006	11.6	21.0	6 20	15 34.75	-17 15.1	2.178	3.077	10.5	20.1
6 30	15 32.86	- 8 6.1	2.222	3.014	14.2	21.2	6 30	15 29.93	-16 42.0	2.248	3.060	13.4	20.3
<b>219511</b>	2001 <i>MU</i> <sub>19</sub>	5 22.4 323°67'		0°5'/22.5 17			<b>172835</b>	2005 <i>CW</i> <sub>36</sub>	5 22.4 14°27'		0°8'/22.1 17		
4 21	16 20.63	-21 33.0	1.293	2.188	15.6	19.7	4 21	16 21.05	-19 17.0	1.132	2.034	16.8	19.6
5 1	16 15.86	-21 38.6	1.216	2.171	11.4	19.4	5 1	16 16.08	-19 12.9	1.078	2.037	12.0	19.3
5 11	16 8.24	-21 37.9	1.160	2.154	6.4	19.1	5 11	16 8.24	-19 4.2	1.045	2.041	6.6	19.0
5 21	15 58.70	-21 31.0	1.127	2.138	1.0	18.7	5 21	15 58.70	-18 52.5	1.034	2.045	1.0	18.7
5 31	15 48.65	-21 19.7	1.118	2.123	4.8	18.9	5 31	15 49.01	-18 40.8	1.046	2.051	5.2	19.0
6 10	15 39.68	-21 7.9	1.133	2.109	10.3	19.1	6 10	15 40.77	-18 33.1	1.081	2.057	10.7	19.3
6 20	15 33.06	-20 59.6	1.168	2.096	15.3	19.4	6 20	15 35.12	-18 32.8	1.137	2.065	15.5	19.6
6 30	15 29.65	-20 58.8	1.222	2.083	19.5	19.6	6 30	15 32.72	-18 42.0	1.210	2.073	19.5	19.9
<b>91066</b>	1998 <i>FP</i> <sub>66</sub>	5 22.4 287°87'		6°1'/24.2 18			<b>119875</b>	2002 <i>CT</i> <sub>174</sub>	5 22.4 77°03'		1°2'/21.8 18		
4 21	16 26.02	-34 9.3	1.797	2.641	14.4	18.2	4 21	16 19.64	-16 56.8	2.263	3.138	10.6	19.7
5 1	16 19.54	-35 6.1	1.705	2.620	11.4	18.0	5 1	16 13.86	-16 50.3	2.203	3.149	7.5	19.5
5 11	16 10.25	-35 50.1	1.635	2.599	8.4	17.7	5 11	16 6.59	-16 42.7	2.168	3.161	4.1	19.4
5 21	15 58.96	-36 16.8	1.590	2.577	6.3	17.5	5 21	15 58.48	-16 35.0	2.161	3.172	1.3	19.2
5 31	15 46.98	-36 23.7	1.571	2.556	6.9	17.5	5 31	15 50.35	-16 29.0	2.182	3.183	3.6	19.4
6 10	15 35.81	-36 12.5	1.578	2.535	9.7	17.6	6 10	15 42.99	-16 26.4	2.231	3.194	6.9	19.6
6 20	15 26.76	-35 48.0	1.608	2.513	13.2	17.8	6 20	15 37.03	-16 28.6	2.305	3.205	10.0	19.8
6 30	15 20.76	-35 17.1	1.658	2.492	16.4	18.0	6 30	15 32.93	-16 36.9	2.402	3.216	12.6	20.0
<b>504466</b>	2008 <i>DQ</i> <sub>45</sub>	5 22.4 86°06'		4°0'/24.5 17			<b>485479</b>	2011 <i>SQ</i> <sub>71</sub>	5 22.4 291°24'		0°3'/22.7 18		
4 21	16 23.06	-32 45.0	2.307	3.147	11.8	21.3	4 21	16 12.52	-23 30.0	4.221	5.081	6.4	20.9
5 1	16 16.44	-33 8.7	2.248	3.164	9.0	21.2	5 1	16 8.39	-23 5.4	4.136	5.074	4.6	20.8
5 11	16 8.04	-33 20.5	2.213	3.181	6.2	21.0	5 11	16 3.47	-22 36.8	4.078	5.067	2.6	20.7
5 21	15 58.64	-33 19.1	2.204	3.198	4.2	20.9	5 21	15 58.10	-22 5.2	4.049	5.060	0.5	20.5
5 31	15 49.22	-33 5.3	2.223	3.214	4.6	21.0	5 31	15 52.69	-21 31.8	4.050	5.053	1.8	20.6
6 10	15 40.72	-32 41.7	2.270	3.231	6.9	21.1	6 10	15 47.64	-20 58.5	4.080	5.046	3.9	20.7
6 20	15 33.88	-32 12.3	2.342	3.247	9.6	21.3	6 20	15 43.30	-20 26.7	4.138	5.039	5.9	20.9
6 30	15 29.22	-31 41.6	2.437	3.263	12.1	21.5	6 30	15 39.95	-19 58.0	4.221	5.033	7.6	21.0
<b>287006</b>	2002 <i>QD</i> <sub>72</sub>	5 22.4 277°13'		1°3'/22.9 16			<b>277631</b>	2006 <i>BU</i> <sub>63</sub>	5 22.4 127°58'		0°9'/22.9 17		
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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>244695</b>	2003 <i>QN</i> <sub>10</sub>		5 22.4 329°67	8°0/16.1	18		<b>433155</b>	2012 <i>TN</i> <sub>243</sub>		5 22.4 279°20	0°1/22.4	17	
4 21	16 16.39	-15 35.6	1.026	1.940	17.0	18.7	4 21	16 21.47	-20 37.2	1.899	2.776	12.3	21.1
5 1	16 12.99	-12 0.1	0.953	1.917	12.5	18.4	5 1	16 15.63	-20 37.7	1.822	2.768	8.8	20.9
5 11	16 6.68	-8 2.2	0.904	1.895	8.7	18.1	5 11	16 7.78	-20 33.9	1.768	2.760	4.9	20.7
5 21	15 58.53	-4 0.6	0.880	1.873	8.7	18.0	5 21	15 58.68	-20 26.2	1.740	2.752	0.6	20.3
5 31	15 50.05	-0 18.7	0.881	1.854	12.8	18.1	5 31	15 49.34	-20 16.4	1.740	2.744	3.7	20.5
6 10	15 42.87	+ 2 43.8	0.903	1.835	18.0	18.3	6 10	15 40.83	-20 6.8	1.767	2.736	7.9	20.8
6 20	15 38.16	+ 4 56.8	0.944	1.818	22.8	18.6	6 20	15 34.00	-20 0.3	1.818	2.728	11.7	21.0
6 30	15 36.71	+ 6 19.5	0.998	1.803	26.7	18.8	6 30	15 29.48	-19 59.3	1.890	2.719	14.9	21.2
<b>228380</b>	2000 <i>WH</i> <sub>85</sub>		5 22.4 160°13	1°2/23.0	17		<b>420016</b>	2011 <i>CS</i> <sub>74</sub>		5 22.4 104°73	2°9/21.1	17	
4 21	16 22.72	-25 8.1	2.224	3.085	11.3	21.5	4 21	16 23.20	-13 27.0	1.852	2.730	12.5	21.5
5 1	16 16.18	-24 57.9	2.154	3.091	8.2	21.3	5 1	16 16.54	-13 2.6	1.801	2.747	8.9	21.3
5 11	16 7.90	-24 39.8	2.108	3.096	4.7	21.1	5 11	16 8.09	-12 39.4	1.775	2.765	5.2	21.1
5 21	15 58.65	-24 14.2	2.091	3.101	1.4	20.9	5 21	15 58.70	-12 19.8	1.776	2.782	2.9	21.0
5 31	15 49.35	-23 43.3	2.102	3.105	3.3	21.0	5 31	15 49.38	-12 6.5	1.804	2.798	5.1	21.1
6 10	15 40.90	-23 10.1	2.141	3.109	6.8	21.2	6 10	15 41.09	-12 1.6	1.859	2.814	8.6	21.4
6 20	15 34.03	-22 38.2	2.206	3.112	10.1	21.4	6 20	15 34.55	-12 6.2	1.938	2.830	11.9	21.6
6 30	15 29.25	-22 10.9	2.293	3.115	12.9	21.6	6 30	15 30.25	-12 20.8	2.038	2.845	14.8	21.8
<b>395621</b>	2011 <i>UE</i> <sub>387</sub>		5 22.4 189°93	3°2/20.7	16		<b>523004</b>	2016 <i>PM</i> <sub>121</sub>		5 22.4 319°86	0°6/22.1	18	
4 21	16 18.91	-10 15.7	2.501	3.373	9.9	21.3	4 21	16 20.03	-19 27.4	1.908	2.788	12.1	21.1
5 1	16 13.27	-9 57.7	2.432	3.373	7.2	21.1	5 1	16 14.55	-19 19.9	1.834	2.783	8.6	20.8
5 11	16 6.25	-9 42.8	2.388	3.372	4.6	20.9	5 11	16 7.15	-19 8.7	1.784	2.778	4.7	20.6
5 21	15 58.45	-9 32.8	2.371	3.371	3.2	20.8	5 21	15 58.60	-18 55.0	1.761	2.772	0.7	20.3
5 31	15 50.57	-9 29.7	2.383	3.370	4.7	20.9	5 31	15 49.87	-18 40.7	1.764	2.768	3.8	20.5
6 10	15 43.31	-9 34.6	2.423	3.368	7.4	21.1	6 10	15 41.97	-18 28.7	1.795	2.763	7.9	20.7
6 20	15 37.25	-9 48.2	2.488	3.367	10.1	21.3	6 20	15 35.70	-18 21.3	1.849	2.758	11.5	20.9
6 30	15 32.86	-10 10.5	2.575	3.365	12.5	21.4	6 30	15 31.66	-18 20.7	1.925	2.754	14.7	21.1
<b>355104</b>	2006 <i>TM</i> <sub>126</sub>		5 22.4 156°22	1°1/23.1	17		<b>477982</b>	2011 <i>SF</i> <sub>91</sub>		5 22.4 166°37	1°2/23.1	18	
4 21	16 19.99	-25 20.6	2.889	3.744	9.2	22.9	4 21	16 19.83	-25 33.5	2.529	3.389	10.2	21.7
5 1	16 13.93	-25 14.7	2.817	3.751	6.7	22.7	5 1	16 14.01	-25 24.6	2.455	3.391	7.4	21.5
5 11	16 6.57	-25 2.5	2.771	3.758	3.9	22.5	5 11	16 6.70	-25 8.5	2.406	3.393	4.3	21.3
5 21	15 58.49	-24 44.5	2.754	3.764	1.3	22.4	5 21	15 58.55	-24 45.7	2.385	3.395	1.4	21.1
5 31	15 50.36	-24 22.0	2.767	3.770	2.7	22.5	5 31	15 50.32	-24 17.9	2.393	3.397	3.0	21.3
6 10	15 42.88	-23 57.3	2.809	3.775	5.5	22.7	6 10	15 42.81	-23 47.7	2.430	3.398	6.1	21.5
6 20	15 36.58	-23 32.8	2.877	3.780	8.1	22.9	6 20	15 36.62	-23 18.1	2.492	3.399	9.0	21.6
6 30	15 31.89	-23 10.9	2.970	3.784	10.4	23.0	6 30	15 32.24	-22 52.1	2.578	3.400	11.6	21.8
<b>294821</b>	2008 <i>CU</i> <sub>126</sub>		5 22.4 20°40	3°3/21.1	17		<b>73628</b>	4170 <i>T</i> <sub>-3</sub>		5 22.4 146°46	1°8/21.6	18	
4 21	16 20.19	-15 11.7	1.239	2.140	15.7	20.0	4 21	16 24.53	-16 32.1	1.842	2.718	12.6	19.6
5 1	16 15.16	-14 35.4	1.186	2.144	11.3	19.7	5 1	16 17.61	-16 11.8	1.781	2.727	9.0	19.4
5 11	16 7.62	-13 58.4	1.155	2.149	6.5	19.5	5 11	16 8.75	-15 49.7	1.744	2.736	5.0	19.2
5 21	15 58.63	-13 24.7	1.147	2.156	3.3	19.3	5 21	15 58.81	-15 27.8	1.734	2.744	1.8	19.0
5 31	15 49.59	-12 59.1	1.164	2.162	6.3	19.5	5 31	15 48.83	-15 8.7	1.753	2.752	4.5	19.2
6 10	15 41.87	-12 45.5	1.203	2.170	11.0	19.8	6 10	15 39.87	-14 55.3	1.798	2.759	8.4	19.5
6 20	15 36.47	-12 45.7	1.263	2.178	15.3	20.0	6 20	15 32.73	-14 49.6	1.868	2.765	12.0	19.7
6 30	15 33.97	-13 0.4	1.341	2.187	19.0	20.3	6 30	15 27.94	-14 53.1	1.959	2.771	15.1	19.9
<b>507504</b>	2012 <i>UD</i> <sub>163</sub>		5 22.4 195°31	6°3/18.1	17		<b>187915</b>	2000 <i>VU</i> <sub>54</sub>		5 22.4 55°52	5°1/23.7	17	
4 21	16 18.70	- 1 52.3	2.407	3.267	10.6	22.4	4 21	16 29.30	-31 38.5	2.073	2.911	12.9	19.0
5 1	16 13.13	- 0 50.3	2.344	3.265	8.4	22.3	5 1	16 21.29	-33 4.6	2.013	2.927	10.0	18.8
5 11	16 6.18	+ 0 3.9	2.306	3.263	6.7	22.2	5 11	16 10.93	-34 20.0	1.978	2.943	7.1	18.6
5 21	15 58.46	+ 0 46.4	2.295	3.260	6.4	22.2	5 21	15 59.10	-35 20.3	1.971	2.960	5.2	18.6
5 31	15 50.68	+ 1 13.8	2.311	3.257	7.6	22.2	5 31	15 46.98	-36 3.3	1.993	2.976	5.8	18.6
6 10	15 43.55	+ 1 24.5	2.353	3.253	9.7	22.4	6 10	15 35.82	-36 29.8	2.042	2.993	8.2	18.8
6 20	15 37.65	+ 1 18.5	2.418	3.249	12.0	22.5	6 20	15 26.62	-36 43.3	2.116	3.010	11.0	19.0
6 30	15 33.42	+ 0 57.0	2.503	3.245	14.0	22.6	6 30	15 20.08	-36 48.8	2.213	3.026	13.5	19.2
<b>183675</b>	2003 <i>XU</i> <sub>14</sub>		5 22.4 222°70	11°1/15.4	17		<b>80518</b>	2000 <i>AS</i> <sub>59</sub>		5 22.4 239°83	2°6/23.6	18	
4 21	16 22.98	+10 58.9	2.101	2.917	13.6	20.4	4 21	16 24.43	-28 11.5	1.809	2.671	13.5	19.4
5 1	16 16.41	+12 13.5	2.039	2.905	12.1	20.3	5 1	16 17.97	-28 7.2	1.725	2.660	10.1	19.2
5 11	16 8.08	+13 10.1	2.000	2.893	11.2	20.2	5 11	16 9.16	-27 50.7	1.665	2.649	6.2	18.9
5 21	15 58.70	+13 42.7	1.984	2.880	11.3	20.2	5 21	15 58.89	-27 21.4	1.630	2.637	2.8	18.7
5 31	15 49.17	+13 47.5	1.992	2.866	12.4	20.2	5 31	15 48.32	-26 41.3	1.622	2.625	4.3	18.7
6 10	15 40.40	+13 24.0	2.023	2.851	14.0	20.3	6 10	15 38.71	-25 54.5	1.642	2.612	8.3	18.9
6 20	15 33.13	+12 34.3	2.073	2.836	15.9	20.4	6 20	15 31.08	-25 6.6	1.685	2.599	12.2	19.1
6 30	15 27.91	+11 22.7	2.141	2.819	17.7	20.5	6 30	15 26.09	-24 23.0	1.750	2.585	15.7	19.3
<b>386420</b>	2008 <i>UV</i> <sub>352</sub>		5 22.4 151°92	1°1/23.0	17		<b>430281</b>	2013 <i>WR</i> <sub>56</sub>		5 22.4 217°59	1°3/23.1	17	
4 21	16 21.66	-25 7.5	2.268	3.130	11.1	21.8	4 21	16 22.79	-25 24.3	2.115	2.978	11.8	21.9
5 1	16 15.39	-24 52.9	2.198	3.136	8.0	21.7	5 1	16 16.44	-25 12.8	2.033	2.971	8.6	21.7
5 11	16 7.47	-24 30.4	2.154	3.142	4.6	21.5	5 11	16 8.18	-24 52.6	1.976	2.964	5.0	21.5
5 21	15 58.63	-24 0.9	2.137	3.147	1.3	21.2	5 21	15 58.77	-24 24.0	1.946	2.956	1.5	21.2
5 31	15 49.74	-23 26.3	2.149	3.152	3.2	21.4	5 31	15 49.18	-23 49.2	1.944	2.947	3.5	21.3
6 10	15 41.69	-22 50.0	2.189	3.157	6.7	21.6	6 10	15 40.41	-23 11.5	1.970	2.939	7.2	21.5
6 20	15 35.17	-22 15.5	2.254	3.161	9.9	21.8	6 20	15 33.28	-22 34.9	2.021	2.930	10.8	21.7
6 30	15 30.66	-21 45.9	2.343	3.165	12.6	22.0	6 30	15 28.35	-22 3.3	2.095	2.920	13.8	21.9
<b>193267</b>	2000 <i>SY</i> <sub>171</sub>		5 22.4 182°33	6°4/26.0	17		<b>498172</b>	2007 <					

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5 22.4

5 22.4

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>109774</b>	2001 <i>RG</i> <sub>80</sub>		5 22.4 191°17'	8°0'/25.4	18		<b>131635</b>	2001 <i>XW</i> <sub>71</sub>		5 22.4 237°16'	0°2'/22.2	18	
4 21	16 31.15	-41 25.6	2.096	2.896	14.2	19.9	4 21	16 12.14	-19 56.3	4.661	5.525	5.8	20.3
5 1	16 23.02	-42 35.8	2.020	2.895	11.9	19.8	5 1	16 8.09	-19 47.8	4.580	5.521	4.1	20.2
5 11	16 12.08	-43 28.7	1.965	2.893	9.6	19.6	5 11	16 3.34	-19 37.4	4.526	5.518	2.2	20.0
5 21	15 59.28	-43 59.0	1.936	2.891	8.1	19.5	5 21	15 58.18	-19 25.9	4.502	5.514	0.3	19.8
5 31	15 45.99	-44 4.3	1.933	2.889	8.3	19.5	5 31	15 52.97	-19 14.0	4.508	5.510	1.8	20.0
6 10	15 33.73	-43 46.7	1.956	2.886	9.9	19.6	6 10	15 48.07	-19 2.8	4.543	5.506	3.7	20.1
6 20	15 23.72	-43 11.8	2.003	2.882	12.2	19.7	6 20	15 43.78	-18 53.4	4.605	5.502	5.4	20.3
6 30	15 16.79	-42 27.1	2.072	2.878	14.6	19.9	6 30	15 40.36	-18 46.5	4.693	5.499	7.0	20.4
<b>94455</b>	2001 <i>TD</i> <sub>107</sub>		5 22.4 209°53'	1°5'/23.0	18		<b>85293</b>	Tengzhou		5 22.4 20°38'	8°1'/26.9	18	
4 21	16 25.62	-25 19.0	1.651	2.521	14.1	19.1	4 21	16 23.37	-42 43.4	1.908	2.718	15.0	19.0
5 1	16 18.87	-25 7.6	1.575	2.517	10.3	18.9	5 1	16 17.37	-43 19.0	1.842	2.723	12.5	18.8
5 11	16 9.67	-24 45.5	1.523	2.512	6.0	18.6	5 11	16 8.86	-43 33.7	1.797	2.728	10.1	18.7
5 21	15 58.96	-24 12.9	1.496	2.506	1.8	18.3	5 21	15 58.88	-43 24.1	1.775	2.734	8.4	18.6
5 31	15 48.03	-23 32.5	1.496	2.500	4.2	18.4	5 31	15 48.76	-42 50.0	1.777	2.740	8.2	18.6
6 10	15 38.20	-22 49.0	1.522	2.493	8.7	18.7	6 10	15 39.87	-41 55.8	1.804	2.747	9.7	18.7
6 20	15 30.50	-22 7.8	1.573	2.486	13.0	18.9	6 20	15 33.22	-40 48.0	1.855	2.754	12.0	18.9
6 30	15 25.60	-21 33.7	1.644	2.478	16.5	19.1	6 30	15 29.45	-39 34.5	1.926	2.761	14.4	19.0
<b>430637</b>	2003 <i>SA</i> <sub>50</sub>		5 22.4 257°44'	4°2'/24.1	17		<b>168986</b>	2001 <i>CV</i> <sub>22</sub>		5 22.4 79°86'	3°8'/21.1	17	
4 21	16 26.58	-31 26.2	1.750	2.602	14.3	22.0	4 21	16 24.46	-12 41.3	1.437	2.325	14.8	20.3
5 1	16 19.82	-31 37.7	1.656	2.582	11.0	21.7	5 1	16 17.79	-12 12.8	1.393	2.343	10.7	20.1
5 11	16 10.36	-31 34.7	1.584	2.561	7.4	21.5	5 11	16 8.91	-11 47.0	1.372	2.362	6.3	19.9
5 21	15 59.07	-31 14.8	1.538	2.539	4.4	21.2	5 21	15 58.87	-11 27.0	1.375	2.381	3.8	19.8
5 31	15 47.27	-30 38.3	1.519	2.517	5.3	21.2	5 31	15 48.95	-11 16.1	1.405	2.399	6.2	20.0
6 10	15 36.40	-29 49.2	1.526	2.494	9.0	21.4	6 10	15 40.37	-11 16.6	1.459	2.417	10.3	20.3
6 20	15 27.67	-28 54.0	1.557	2.470	13.1	21.6	6 20	15 33.96	-11 29.3	1.536	2.435	14.0	20.6
6 30	15 21.89	-27 59.7	1.609	2.446	16.7	21.8	6 30	15 30.24	-11 53.7	1.632	2.453	17.2	20.8
<b>70324</b>	1999 <i>RK</i> <sub>153</sub>		5 22.4 352°35'	4°6'/20.4	18		<b>61983</b>	2000 <i>RN</i> <sub>30</sub>		5 22.4 27°61'	3°1'/23.9	18	R
4 21	16 19.97	-13 24.6	1.251	2.152	15.6	19.1	4 21	16 22.00	-29 55.2	1.567	2.436	14.8	18.2
5 1	16 15.08	-12 25.0	1.192	2.149	11.3	18.8	5 1	16 16.32	-29 40.0	1.502	2.439	11.1	18.0
5 11	16 7.65	-11 25.1	1.155	2.146	6.9	18.6	5 11	16 8.24	-29 9.2	1.459	2.443	7.0	17.8
5 21	15 58.72	-10 30.7	1.140	2.145	4.6	18.4	5 21	15 58.80	-28 23.2	1.441	2.447	3.4	17.6
5 31	15 49.64	-9 48.1	1.150	2.143	7.4	18.6	5 31	15 49.30	-27 25.3	1.449	2.451	4.6	17.7
6 10	15 41.80	-9 22.2	1.182	2.142	11.9	18.8	6 10	15 41.04	-26 21.5	1.482	2.456	8.6	17.9
6 20	15 36.23	-9 15.2	1.235	2.142	16.2	19.1	6 20	15 34.97	-25 18.5	1.538	2.461	12.6	18.1
6 30	15 33.56	-9 26.9	1.306	2.143	19.9	19.3	6 30	15 31.68	-24 22.3	1.615	2.466	16.1	18.4
<b>479664</b>	2014 <i>DW</i> <sub>71</sub>		5 22.4 86°87'	0°9'/22.8	17		<b>37744</b>	1996 <i>XU</i> <sub>14</sub>		5 22.4 229°50'	13°6'/27.8	18	R
4 21	16 21.27	-23 12.6	2.195	3.062	11.2	21.6	4 21	16 35.76	-48 44.0	1.348	2.142	20.9	18.2
5 1	16 15.15	-23 17.5	2.134	3.075	8.1	21.5	5 1	16 27.97	-49 55.5	1.275	2.134	18.4	18.0
5 11	16 7.37	-23 16.6	2.097	3.087	4.5	21.3	5 11	16 15.48	-50 35.7	1.219	2.126	15.8	17.8
5 21	15 58.67	-23 10.2	2.088	3.099	1.1	21.0	5 21	15 59.76	-50 33.9	1.182	2.117	14.0	17.7
5 31	15 49.93	-22 59.7	2.108	3.112	3.2	21.2	5 31	15 43.34	-49 45.0	1.166	2.108	13.7	17.6
6 10	15 42.04	-22 47.3	2.155	3.124	6.7	21.4	6 10	15 29.04	-48 14.3	1.171	2.098	15.1	17.7
6 20	15 35.69	-22 35.8	2.227	3.136	9.9	21.7	6 20	15 18.85	-46 15.0	1.196	2.088	17.7	17.8
6 30	15 31.36	-22 27.6	2.322	3.147	12.6	21.9	6 30	15 13.70	-44 3.5	1.240	2.077	20.7	18.0
<b>305360</b>	2008 <i>BQ</i> <sub>34</sub>		5 22.4 283°69'	1°7'/21.5	18		<b>350009</b>	2010 <i>HX</i> <sub>23</sub>		5 22.4 8°97'	0°9'/23.3	18	
4 21	16 18.88	-16 23.5	2.199	3.077	10.8	21.1	4 21	16 13.48	-26 36.3	3.840	4.695	7.1	19.5
5 1	16 13.48	-16 1.9	2.127	3.074	7.7	20.9	5 1	16 9.15	-26 9.0	3.762	4.696	5.2	19.4
5 11	16 6.48	-15 38.8	2.080	3.072	4.3	20.7	5 11	16 3.94	-25 35.9	3.711	4.697	3.0	19.2
5 21	15 58.57	-15 16.1	2.060	3.070	1.7	20.5	5 21	15 58.26	-24 58.1	3.689	4.698	1.1	19.1
5 31	15 50.54	-14 56.2	2.069	3.068	4.0	20.7	5 31	15 52.56	-24 17.1	3.696	4.699	2.0	19.1
6 10	15 43.24	-14 41.4	2.104	3.065	7.4	20.9	6 10	15 47.30	-23 35.0	3.733	4.700	4.2	19.3
6 20	15 37.33	-14 33.7	2.165	3.063	10.6	21.1	6 20	15 42.85	-22 53.8	3.797	4.702	6.3	19.4
6 30	15 33.31	-14 34.2	2.247	3.061	13.3	21.3	6 30	15 39.53	-22 15.5	3.886	4.704	8.1	19.6
<b>130062</b>	1999 <i>VU</i> <sub>188</sub>		5 22.4 99°99'	2°1'/21.2	18		<b>205695</b>	2001 <i>YR</i> <sub>132</sub>		5 22.4 199°99'	4°0'/24.0	18	
4 21	16 20.52	-16 58.2	1.949	2.829	11.9	19.5	4 21	16 27.33	-30 34.1	1.654	2.510	14.8	20.2
5 1	16 14.65	-16 8.9	1.891	2.840	8.4	19.3	5 1	16 20.24	-30 48.2	1.579	2.508	11.2	20.0
5 11	16 7.09	-15 16.7	1.859	2.851	4.7	19.1	5 11	16 10.49	-30 48.1	1.526	2.505	7.3	19.7
5 21	15 58.64	-14 25.1	1.854	2.862	2.1	19.0	5 21	15 59.10	-30 31.7	1.499	2.501	4.2	19.5
5 31	15 50.22	-13 37.9	1.876	2.873	4.5	19.2	5 31	15 47.44	-30 0.1	1.499	2.497	5.2	19.6
6 10	15 42.75	-12 58.8	1.925	2.884	8.1	19.4	6 10	15 36.96	-29 17.6	1.524	2.493	9.0	19.8
6 20	15 36.90	-12 30.4	1.999	2.894	11.5	19.6	6 20	15 28.78	-28 30.6	1.574	2.487	12.9	20.0
6 30	15 33.13	-12 14.0	2.094	2.905	14.3	19.8	6 30	15 23.60	-27 45.7	1.644	2.482	16.4	20.2
<b>472975</b>	2015 <i>GD</i> <sub>50</sub>		5 22.4 312°41'	5°7'/19.9	17		<b>75714</b>	2000 <i>AT</i> <sub>118</sub>		5 22.4 81°94'	3°5'/20.9	18	
4 21	16 19.18	-7 38.3	1.652	2.538	13.3	20.6	4 21	16 22.83	-13 44.6	1.524	2.412	14.1	18.5
5 1	16 14.22	-7 0.1	1.572	2.517	10.1	20.3	5 1	16 16.59	-13 4.0	1.475	2.426	10.1	18.3
5 11	16 7.14	-6 27.5	1.514	2.495	7.0	20.1	5 11	16 8.26	-12 24.1	1.450	2.440	6.0	18.1
5 21	15 58.67	-6 5.0	1.481	2.474	5.8	20.0	5 21	15 58.80	-11 48.9	1.449	2.455	3.5	18.0
5 31	15 49.86	-5 56.6	1.473	2.454	7.7	20.0	5 31	15 49.41	-11 22.1	1.475	2.469	6.0	18.2
6 10	15 41.81	-6 4.8	1.489	2.434	11.2	20.2	6 10	15 41.24	-11 7.1	1.526	2.483	9.9	18.4
6 20	15 35.47	-6 30.2	1.527	2.414	14.9	20.4	6 20	15 35.10	-11 5.1	1.599	2.497	13.7	18.7
6 30	15 31.53	-7 11.7	1.585	2.395	18.1	20.5	6 30	15 31.50	-11 16.4	1.692	2.511	16.8	18.9
<b>89468</b>	2001 <i>XK</i> <sub>20</sub>		5 22.4 113°33'	0°1'/22.4	18		<b>109728</b>	2001 <i>RF</i> <sub>58</sub>					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>461933</b>	2006 <i>SC</i> <sub>174</sub>		5 22.4 316°47	0°2/22.4	17		<b>190709</b>	2001 <i>FV</i> <sub>178</sub>		5 22.4 138°77	1°4/21.8	17	
4 21	16 20.44	-21 54.1	1.241	2.138	16.0	20.8	4 21	16 23.77	-15 40.0	2.435	3.300	10.3	20.4
5 1	16 15.88	-21 40.2	1.161	2.117	11.7	20.5	5 1	16 16.73	-15 45.0	2.372	3.314	7.3	20.2
5 11	16 8.37	-21 17.3	1.103	2.098	6.5	20.1	5 11	16 8.19	-15 49.7	2.336	3.326	4.1	20.0
5 21	15 58.86	-20 46.5	1.066	2.078	0.9	19.7	5 21	15 58.81	-15 55.0	2.329	3.339	1.4	19.8
5 31	15 48.81	-20 11.3	1.054	2.060	5.0	19.9	5 31	15 49.40	-16 1.7	2.351	3.350	3.5	20.0
6 10	15 39.85	-19 37.2	1.065	2.042	10.8	20.2	6 10	15 40.75	-16 11.1	2.402	3.361	6.7	20.2
6 20	15 33.30	-19 9.7	1.096	2.025	16.0	20.4	6 20	15 33.50	-16 24.2	2.480	3.372	9.7	20.4
6 30	15 30.06	-18 53.3	1.146	2.008	20.4	20.6	6 30	15 28.11	-16 42.1	2.581	3.381	12.2	20.6
<b>508606</b>	2017 <i>SH</i> <sub>13</sub>		5 22.4 223°35	1°5/21.6	18		<b>494469</b>	2016 <i>WV</i> <sub>10</sub>		5 22.4 244°94	0°4/22.2	18	
4 21	16 22.30	-16 30.7	2.435	3.303	10.2	22.1	4 21	16 19.01	-19 52.1	2.703	3.571	9.4	22.8
5 1	16 15.86	-16 10.6	2.348	3.291	7.3	21.9	5 1	16 13.43	-19 39.6	2.615	3.558	6.7	22.6
5 11	16 7.81	-15 48.6	2.287	3.278	4.1	21.6	5 11	16 6.45	-19 23.7	2.553	3.544	3.7	22.4
5 21	15 58.76	-15 26.3	2.254	3.264	1.6	21.4	5 21	15 58.62	-19 5.3	2.518	3.530	0.6	22.2
5 31	15 49.52	-15 5.6	2.251	3.249	3.8	21.6	5 31	15 50.61	-18 46.0	2.514	3.516	2.9	22.3
6 10	15 40.90	-14 49.1	2.276	3.233	7.1	21.8	6 10	15 43.15	-18 28.0	2.538	3.502	6.1	22.5
6 20	15 33.59	-14 38.7	2.327	3.217	10.3	21.9	6 20	15 36.85	-18 13.3	2.588	3.487	9.0	22.7
6 30	15 28.13	-14 36.0	2.401	3.200	13.0	22.1	6 30	15 32.16	-18 3.8	2.661	3.472	11.6	22.8
<b>457472</b>	2008 <i>UY</i> <sub>229</sub>		5 22.4 92°31	2°5/23.2	16		<b>165105</b>	2000 <i>HG</i> <sub>45</sub>		5 22.4 13°40	1°3/22.8	17	
4 21	16 27.61	-25 21.7	1.363	2.241	16.1	21.4	4 21	16 21.93	-22 24.6	1.610	2.492	13.8	19.3
5 1	16 20.54	-25 47.2	1.308	2.252	11.8	21.2	5 1	16 16.24	-22 54.4	1.547	2.495	10.0	19.1
5 11	16 10.65	-26 2.4	1.275	2.264	7.0	20.9	5 11	16 8.24	-23 19.0	1.507	2.498	5.7	18.8
5 21	15 59.12	-26 5.9	1.266	2.275	2.7	20.7	5 21	15 58.85	-23 37.5	1.492	2.502	1.5	18.6
5 31	15 47.50	-25 58.7	1.283	2.286	4.9	20.8	5 31	15 49.26	-23 50.1	1.503	2.507	4.1	18.8
6 10	15 37.35	-25 44.5	1.324	2.297	9.5	21.1	6 10	15 40.72	-23 58.8	1.539	2.513	8.4	19.0
6 20	15 29.79	-25 28.6	1.389	2.308	13.9	21.4	6 20	15 34.18	-24 6.3	1.600	2.519	12.4	19.3
6 30	15 25.47	-25 15.8	1.472	2.319	17.5	21.7	6 30	15 30.30	-24 15.6	1.680	2.525	15.8	19.5
<b>416434</b>	2003 <i>UO</i> <sub>315</sub>		5 22.4 317°68	2°1/21.8	17		<b>479814</b>	2014 <i>FD</i> <sub>36</sub>		5 22.4 27°33	4°4/24.2	17	
4 21	16 21.67	-16 17.1	1.231	2.130	16.0	21.0	4 21	16 22.87	-31 39.4	1.939	2.791	13.2	20.8
5 1	16 16.68	-16 12.2	1.156	2.113	11.6	20.6	5 1	16 16.76	-32 14.7	1.871	2.795	10.1	20.6
5 11	16 8.77	-16 6.6	1.103	2.098	6.5	20.3	5 11	16 8.49	-32 37.9	1.826	2.799	6.9	20.5
5 21	15 58.92	-16 2.2	1.072	2.083	2.2	20.0	5 21	15 58.89	-32 46.9	1.806	2.803	4.6	20.3
5 31	15 48.54	-16 1.8	1.065	2.068	5.8	20.2	5 31	15 49.09	-32 41.8	1.814	2.807	5.2	20.4
6 10	15 39.26	-16 8.4	1.082	2.054	11.2	20.4	6 10	15 40.27	-32 25.2	1.847	2.812	8.0	20.5
6 20	15 32.36	-16 24.4	1.119	2.041	16.2	20.7	6 20	15 33.33	-32 1.5	1.905	2.816	11.1	20.7
6 30	15 28.72	-16 51.1	1.173	2.029	20.5	20.9	6 30	15 28.89	-31 35.6	1.984	2.822	14.0	20.9
<b>474448</b>	2003 <i>QN</i> <sub>109</sub>		5 22.4 266°14	3°0/24.1	18		<b>75074</b>	1999 <i>VU</i> <sub>21</sub>		5 22.4 359°91	2°1/21.8	18	
4 21	16 22.68	-30 38.7	2.053	2.905	12.5	20.7	4 21	16 23.18	-15 27.8	1.330	2.223	15.4	18.4
5 1	16 16.58	-30 24.3	1.958	2.886	9.5	20.5	5 1	16 17.40	-15 31.4	1.268	2.222	11.1	18.1
5 11	16 8.38	-29 56.1	1.888	2.867	6.1	20.2	5 11	16 8.99	-15 35.8	1.228	2.222	6.2	17.9
5 21	15 58.85	-29 13.8	1.844	2.847	3.3	20.0	5 21	15 58.96	-15 42.3	1.211	2.221	2.2	17.6
5 31	15 49.03	-28 19.2	1.827	2.827	4.2	20.0	5 31	15 48.70	-15 52.9	1.220	2.222	5.4	17.8
6 10	15 40.05	-27 16.8	1.838	2.807	7.6	20.2	6 10	15 39.64	-16 9.5	1.252	2.222	10.3	18.1
6 20	15 32.80	-26 12.1	1.874	2.786	11.2	20.4	6 20	15 32.87	-16 33.3	1.307	2.223	14.8	18.3
6 30	15 27.94	-25 11.0	1.932	2.765	14.5	20.6	6 30	15 29.11	-17 5.3	1.380	2.225	18.6	18.6
<b>66878</b>	1999 <i>VM</i> <sub>63</sub>		5 22.4 263°89	0°9/21.9	18		<b>391091</b>	2005 <i>UC</i> <sub>310</sub>		5 22.4 279°70	0°2/22.3	18	
4 21	16 22.08	-19 45.8	2.302	3.171	10.7	19.7	4 21	16 20.05	-19 57.8	2.318	3.190	10.6	20.8
5 1	16 15.91	-19 11.7	2.199	3.143	7.7	19.4	5 1	16 14.44	-19 57.1	2.227	3.172	7.6	20.6
5 11	16 7.93	-18 31.8	2.122	3.114	4.3	19.2	5 11	16 7.12	-19 53.1	2.162	3.154	4.2	20.3
5 21	15 58.79	-17 47.8	2.073	3.084	0.9	18.9	5 21	15 58.73	-19 46.4	2.124	3.136	0.5	20.0
5 31	15 49.33	-17 2.5	2.053	3.054	3.7	19.0	5 31	15 50.06	-19 38.3	2.114	3.117	3.3	20.2
6 10	15 40.44	-16 19.7	2.061	3.023	7.5	19.2	6 10	15 41.99	-19 30.9	2.132	3.099	6.9	20.4
6 20	15 32.93	-15 42.7	2.096	2.991	11.0	19.4	6 20	15 35.26	-19 26.2	2.176	3.080	10.3	20.6
6 30	15 27.39	-15 14.5	2.152	2.958	14.1	19.5	6 30	15 30.43	-19 26.3	2.242	3.062	13.2	20.8
<b>501397</b>	2013 <i>YR</i> <sub>83</sub>		5 22.4 208°77	5°2/19.3	18		<b>25771</b>	2000 <i>CW</i> <sub>25</sub>		5 22.4 147°15	0°4/22.6	18	
4 21	16 20.89	-4 8.1	2.511	3.371	10.3	21.7	4 21	16 18.40	-22 45.1	2.634	3.500	9.6	19.3
5 1	16 14.71	-3 30.5	2.438	3.364	7.9	21.5	5 1	16 12.96	-22 31.5	2.562	3.503	6.9	19.1
5 11	16 7.11	-2 59.2	2.390	3.356	5.9	21.4	5 11	16 6.16	-22 12.7	2.515	3.505	3.8	18.9
5 21	15 58.68	-2 37.2	2.369	3.348	5.3	21.3	5 21	15 58.60	-21 49.6	2.496	3.508	0.7	18.6
5 31	15 50.12	-2 27.2	2.377	3.339	6.5	21.4	5 31	15 50.96	-21 24.0	2.506	3.510	2.8	18.8
6 10	15 42.18	-2 30.5	2.412	3.329	8.8	21.5	6 10	15 43.98	-20 58.3	2.545	3.512	5.9	19.0
6 20	15 35.45	-2 47.1	2.471	3.318	11.2	21.7	6 20	15 38.22	-20 35.0	2.610	3.515	8.8	19.2
6 30	15 30.40	-3 16.2	2.552	3.307	13.5	21.8	6 30	15 34.12	-20 16.2	2.697	3.517	11.2	19.4
<b>384996</b>	2012 <i>TW</i> <sub>213</sub>		5 22.4 268°66	2°2/23.5	17		<b>3899</b>	Wichterle		5 22.4 198°38	0°4/22.2	18	R
4 21	16 21.48	-27 40.9	1.960	2.824	12.5	21.0	4 21	16 18.88	-19 51.3	2.875	3.741	8.9	17.2
5 1	16 15.66	-27 34.8	1.882	2.818	9.3	20.7	5 1	16 13.22	-19 39.1	2.796	3.738	6.3	17.0
5 11	16 7.83	-27 17.9	1.827	2.812	5.6	20.5	5 11	16 6.29	-19 23.8	2.743	3.734	3.5	16.8
5 21	15 58.77	-26 50.4	1.798	2.806	2.5	20.3	5 21	15 58.62	-19 6.2	2.719	3.731	0.5	16.5
5 31	15 49.54	-26 14.0	1.797	2.800	3.8	20.4	5 31	15 50.85	-18 48.0	2.724	3.726	2.8	16.7
6 10	15 41.19	-25 32.7	1.823	2.794	7.5	20.6	6 10	15 43.64	-18 31.0	2.758	3.722	5.7	16.9
6 20	15 34.59	-24 50.9	1.873	2.788	11.1	20.8	6 20	15 37.53	-18 17.2	2.819	3.717	8.4	17.1
6 30	15 30.34	-24 13.3	1.945	2.781	14.3	21.0	6 30	15 32.94	-18 8.1	2.904	3.712	10.8	17.2
<b>127192</b>	2002 <i>GW</i> <sub>174</sub>		5 22.4 101°59	1°4/21.9	18		<b>512675</b>	2016 <i>TF</i> <sub>80</sub> </					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>141319</b>	2001 YC <sub>128</sub>		5 22.4 72°22	1°1/22.9 18			<b>167803</b>	2005 BH <sub>10</sub>		5 22.4 44°10	3°9/24.1 17		
4 21	16 21.90	-23 3.9	2.141	3.008	11.5	19.3	4 21	16 24.09	-30 19.0	1.325	2.199	16.7	19.7
5 1	16 15.72	-23 22.4	2.076	3.017	8.3	19.2	5 1	16 18.18	-30 15.9	1.266	2.205	12.6	19.5
5 11	16 7.78	-23 35.6	2.036	3.026	4.7	19.0	5 11	16 9.43	-29 55.3	1.228	2.211	8.0	19.2
5 21	15 58.82	-23 43.1	2.024	3.034	1.3	18.7	5 21	15 59.05	-29 16.7	1.213	2.218	4.2	19.0
5 31	15 49.75	-23 45.8	2.039	3.043	3.3	18.9	5 31	15 48.60	-28 23.3	1.223	2.225	5.4	19.1
6 10	15 41.52	-23 45.5	2.083	3.052	6.9	19.1	6 10	15 39.66	-27 21.8	1.257	2.232	9.7	19.4
6 20	15 34.87	-23 44.6	2.151	3.061	10.1	19.3	6 20	15 33.32	-26 20.2	1.313	2.240	14.0	19.6
6 30	15 30.31	-23 45.5	2.242	3.069	12.9	19.5	6 30	15 30.20	-25 25.4	1.389	2.247	17.7	19.9
<b>210420</b>	2007 XP <sub>44</sub>		5 22.4 255°14	1°4/21.7 18			<b>123743</b>	2001 AT <sub>21</sub>		5 22.4 195°24	0°8/22.8 18		
4 21	16 19.99	-17 15.9	2.138	3.015	11.1	20.6	4 21	16 22.79	-23 10.4	2.058	2.926	11.8	20.5
5 1	16 14.38	-16 58.5	2.062	3.009	7.9	20.4	5 1	16 16.48	-23 10.6	1.984	2.925	8.6	20.3
5 11	16 7.06	-16 38.9	2.010	3.002	4.4	20.2	5 11	16 8.26	-23 4.4	1.934	2.923	4.8	20.1
5 21	15 58.73	-16 18.9	1.985	2.995	1.4	20.0	5 21	15 58.91	-22 52.1	1.910	2.921	1.1	19.8
5 31	15 50.24	-16 0.5	1.988	2.988	3.9	20.1	5 31	15 49.39	-22 35.3	1.915	2.919	3.4	20.0
6 10	15 42.47	-15 46.4	2.018	2.981	7.5	20.3	6 10	15 40.71	-22 16.6	1.948	2.917	7.3	20.2
6 20	15 36.15	-15 38.7	2.074	2.974	10.9	20.5	6 20	15 33.67	-21 59.3	2.005	2.914	10.8	20.4
6 30	15 31.82	-15 38.8	2.151	2.967	13.8	20.7	6 30	15 28.85	-21 46.3	2.085	2.910	13.8	20.6
<b>200210</b>	1999 TE <sub>121</sub>		5 22.4 248°73	0°6/22.7 18			<b>126336</b>	2002 AX <sub>153</sub>		5 22.4 177°47	2°1/21.3 18		
4 21	16 22.55	-22 47.5	2.168	3.035	11.4	21.8	4 21	16 22.10	-14 59.4	2.295	3.166	10.7	20.9
5 1	16 16.34	-22 42.8	2.078	3.019	8.2	21.6	5 1	16 15.69	-14 33.5	2.224	3.168	7.6	20.7
5 11	16 8.22	-22 32.0	2.012	3.002	4.6	21.3	5 11	16 7.71	-14 6.8	2.180	3.170	4.4	20.5
5 21	15 58.89	-22 15.4	1.974	2.985	0.9	21.0	5 21	15 58.83	-13 41.4	2.163	3.171	2.1	20.3
5 31	15 49.28	-21 54.5	1.964	2.968	3.4	21.2	5 31	15 49.88	-13 19.8	2.176	3.171	4.2	20.5
6 10	15 40.35	-21 32.1	1.982	2.950	7.3	21.4	6 10	15 41.67	-13 4.3	2.216	3.171	7.5	20.7
6 20	15 32.94	-21 11.3	2.026	2.932	10.8	21.5	6 20	15 34.87	-12 56.5	2.282	3.170	10.5	20.9
6 30	15 27.67	-20 55.3	2.092	2.913	13.9	21.7	6 30	15 29.97	-12 57.5	2.370	3.168	13.2	21.0
<b>498748</b>	2008 TK <sub>178</sub>		5 22.4 198°33	1°5/22.9 18			<b>326196</b>	2012 CD <sub>13</sub>		5 22.4 101°51	0°5/22.6 17		
4 21	16 24.45	-24 4.2	2.120	2.983	11.8	21.2	4 21	16 25.77	-22 15.4	1.591	2.467	14.3	21.0
5 1	16 17.68	-24 27.3	2.043	2.981	8.6	21.0	5 1	16 18.80	-22 11.9	1.537	2.483	10.2	20.8
5 11	16 8.94	-24 44.6	1.991	2.978	5.0	20.8	5 11	16 9.55	-22 1.3	1.506	2.498	5.6	20.5
5 21	15 58.98	-24 55.1	1.966	2.976	1.7	20.6	5 21	15 59.07	-21 44.4	1.502	2.513	0.9	20.2
5 31	15 48.79	-24 59.0	1.970	2.972	3.5	20.7	5 31	15 48.61	-21 23.5	1.524	2.528	4.1	20.5
6 10	15 39.39	-24 58.4	2.001	2.969	7.2	20.9	6 10	15 39.42	-21 2.4	1.572	2.543	8.6	20.8
6 20	15 31.63	-24 55.9	2.058	2.965	10.7	21.1	6 20	15 32.40	-20 44.9	1.644	2.557	12.5	21.1
6 30	15 26.12	-24 54.5	2.138	2.961	13.6	21.3	6 30	15 28.09	-20 34.1	1.737	2.570	15.8	21.3
<b>295738</b>	2008 UT <sub>83</sub>		5 22.4 206°93	1°0/21.9 18			<b>115291</b>	2003 SA <sub>198</sub>		5 22.4 176°85	3°9/20.5 18		
4 21	16 22.40	-17 26.9	2.238	3.108	10.9	20.9	4 21	16 20.07	-11 26.6	1.917	2.798	12.0	20.0
5 1	16 16.05	-17 26.9	2.160	3.104	7.8	20.7	5 1	16 14.48	-10 45.8	1.852	2.798	8.7	19.8
5 11	16 7.97	-17 25.3	2.108	3.100	4.3	20.5	5 11	16 7.12	-10 6.9	1.812	2.798	5.5	19.6
5 21	15 58.86	-17 23.0	2.084	3.095	1.1	20.2	5 21	15 58.77	-9 33.5	1.798	2.798	3.9	19.5
5 31	15 49.57	-17 21.3	2.089	3.090	3.6	20.4	5 31	15 50.32	-9 9.0	1.811	2.798	5.8	19.6
6 10	15 40.99	-17 21.9	2.121	3.084	7.2	20.6	6 10	15 42.72	-8 55.9	1.850	2.798	9.1	19.8
6 20	15 33.86	-17 26.6	2.179	3.078	10.5	20.8	6 20	15 36.70	-8 55.4	1.912	2.798	12.4	20.0
6 30	15 28.71	-17 36.9	2.260	3.072	13.3	21.0	6 30	15 32.76	-9 7.6	1.996	2.798	15.2	20.2
<b>342467</b>	2008 UD <sub>124</sub>		5 22.4 292°20	4°5/24.6 18			<b>362333</b>	2010 KG <sub>38</sub>		5 22.4 257°16	4°8/20.5 17		
4 21	16 22.68	-32 55.0	1.780	2.634	14.1	20.6	4 21	16 23.33	-11 16.7	1.460	2.348	14.6	21.5
5 1	16 16.96	-33 0.0	1.691	2.615	10.9	20.3	5 1	16 17.38	-10 31.8	1.387	2.337	10.8	21.2
5 11	16 8.77	-32 49.3	1.623	2.597	7.5	20.1	5 11	16 8.98	-9 48.9	1.338	2.325	6.9	21.0
5 21	15 58.98	-32 20.9	1.580	2.578	4.8	19.9	5 21	15 59.02	-9 12.7	1.312	2.314	4.8	20.8
5 31	15 48.80	-31 35.8	1.564	2.560	5.4	19.9	5 31	15 48.75	-8 47.8	1.312	2.302	7.3	20.9
6 10	15 39.58	-30 38.5	1.573	2.542	8.7	20.0	6 10	15 39.51	-8 38.0	1.337	2.290	11.5	21.1
6 20	15 32.38	-29 35.2	1.606	2.523	12.5	20.2	6 20	15 32.33	-8 44.9	1.383	2.277	15.6	21.3
6 30	15 27.95	-28 33.1	1.660	2.505	15.9	20.4	6 30	15 27.93	-9 8.2	1.448	2.265	19.2	21.6
<b>49735</b>	1999 VX <sub>106</sub>		5 22.4 42°01	1°2/21.9 17			<b>471815</b>	2012 WH <sub>12</sub>		5 22.4 158°77	0°5/22.1 18		
4 21	16 22.29	-19 11.5	1.312	2.205	15.5	18.9	4 21	16 19.86	-20 49.7	2.578	3.445	9.8	22.2
5 1	16 16.65	-18 49.1	1.259	2.214	11.1	18.6	5 1	16 13.97	-20 14.9	2.508	3.450	6.9	22.0
5 11	16 8.49	-18 21.7	1.228	2.223	6.0	18.4	5 11	16 6.71	-19 35.2	2.464	3.456	3.8	21.8
5 21	15 58.92	-17 51.8	1.221	2.233	1.3	18.1	5 21	15 58.71	-18 52.4	2.449	3.461	0.6	21.6
5 31	15 49.33	-17 23.4	1.239	2.243	5.0	18.3	5 31	15 50.70	-18 9.3	2.463	3.465	3.0	21.8
6 10	15 41.10	-17 0.7	1.281	2.253	9.9	18.6	6 10	15 43.39	-17 28.7	2.506	3.469	6.2	22.0
6 20	15 35.19	-16 47.3	1.345	2.264	14.3	18.9	6 20	15 37.35	-16 53.4	2.575	3.473	9.1	22.2
6 30	15 32.19	-16 45.1	1.428	2.275	18.0	19.2	6 30	15 33.01	-16 25.6	2.668	3.476	11.6	22.3
<b>434247</b>	2003 UR <sub>44</sub>		5 22.4 155°20	4°5/24.3 18			<b>267240</b>	2001 NW <sub>5</sub>		5 22.4 243°28	0°3/22.3 17		
4 21	16 26.19	-33 6.8	2.242	3.077	12.2	21.4	4 21	16 23.96	-20 15.2	1.951	2.823	12.2	21.4
5 1	16 18.96	-33 48.8	2.170	3.082	9.5	21.3	5 1	16 17.50	-20 9.5	1.864	2.808	8.8	21.2
5 11	16 9.66	-34 19.1	2.122	3.087	6.7	21.1	5 11	16 8.93	-19 59.2	1.801	2.793	4.9	20.9
5 21	15 59.08	-34 35.1	2.101	3.091	4.7	21.0	5 21	15 59.02	-19 45.0	1.765	2.777	0.6	20.6
5 31	15 48.28	-34 36.3	2.108	3.095	5.2	21.0	5 31	15 48.78	-19 28.7	1.757	2.761	3.8	20.8
6 10	15 38.36	-34 25.0	2.142	3.099	7.6	21.2	6 10	15 39.30	-19 13.0	1.777	2.744	8.1	21.0
6 20	15 30.19	-34 5.1	2.202	3.102	10.4	21.3	6 20	15 31.51	-19 1.1	1.822	2.726	11.9	21.2
6 30	15 24.42	-33 41.3	2.285	3.105	12.9	21.5	6 30	15 26.06	-18 55.6	1.888	2.708	15.2	21.4
<b>21959</b>	1999 VM <sub>186</sub>		5 22.4 38°62	2°8/20.6 18			<b>78382</b>	2002 PY<					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>266970</b>	2010 VS <sub>96</sub>		5 22.4 204°24	0°5/22.2	17		<b>162907</b>	2001 KJ <sub>21</sub>		5 22.4 313°21	14°5/12.1	18	
4 21	16 23.99	-20 35.3	1.973	2.844	12.1	22.1	4 21	16 20.44	-1 30.4	0.978	1.879	18.9	18.7
5 1	16 17.36	-20 12.2	1.895	2.839	8.7	21.8	5 1	16 15.84	+ 2 18.0	0.933	1.871	16.0	18.5
5 11	16 8.77	-19 43.3	1.842	2.834	4.8	21.6	5 11	16 8.29	+ 5 56.2	0.909	1.864	14.5	18.4
5 21	15 58.99	-19 10.2	1.816	2.828	0.7	21.3	5 21	15 58.98	+ 9 3.3	0.907	1.857	15.5	18.4
5 31	15 49.05	-18 35.6	1.819	2.822	3.8	21.5	5 31	15 49.52	+11 22.3	0.925	1.850	18.3	18.5
6 10	15 39.98	-18 3.1	1.849	2.814	7.9	21.7	6 10	15 41.51	+12 45.6	0.961	1.844	21.7	18.7
6 20	15 32.61	-17 36.1	1.904	2.806	11.6	21.9	6 20	15 36.11	+13 15.2	1.011	1.838	25.1	18.9
6 30	15 27.53	-17 17.4	1.981	2.798	14.8	22.1	6 30	15 33.99	+12 58.7	1.073	1.832	27.9	19.1
<b>345479</b>	2006 HN <sub>76</sub>		5 22.4 295°36	7°2/19.2	17		<b>438373</b>	2006 TF <sub>32</sub>		5 22.4 249°85	1°1/21.8	18	
4 21	16 20.28	- 2 12.5	1.844	2.715	12.9	20.4	4 21	16 19.45	-18 34.2	2.366	3.239	10.3	21.9
5 1	16 14.79	- 1 35.0	1.770	2.699	10.2	20.2	5 1	16 13.91	-18 4.2	2.281	3.227	7.4	21.7
5 11	16 7.41	- 1 7.8	1.719	2.684	7.9	20.0	5 11	16 6.82	-17 30.4	2.222	3.214	4.1	21.4
5 21	15 58.83	- 0 55.1	1.693	2.669	7.2	19.9	5 21	15 58.79	-16 54.8	2.191	3.202	1.2	21.2
5 31	15 50.01	- 1 0.5	1.692	2.654	8.7	20.0	5 31	15 50.59	-16 19.9	2.188	3.188	3.6	21.4
6 10	15 41.94	- 1 25.1	1.716	2.639	11.4	20.1	6 10	15 43.03	-15 48.6	2.213	3.175	7.0	21.6
6 20	15 35.43	- 2 8.1	1.762	2.624	14.4	20.2	6 20	15 36.78	-15 23.6	2.264	3.161	10.2	21.7
6 30	15 31.09	- 3 7.2	1.827	2.609	17.1	20.4	6 30	15 32.34	-15 7.0	2.337	3.148	13.0	21.9
<b>522543</b>	2016 EH <sub>239</sub>		5 22.4 60°10	6°5/25.4	17		<b>25062</b>	Rasmussen		5 22.4 317°19	0°5/22.2	18	
4 21	16 25.81	-36 22.2	1.541	2.387	16.3	21.1	4 21	16 20.51	-22 4.3	1.358	2.250	15.2	18.8
5 1	16 19.37	-36 46.2	1.477	2.392	12.9	20.9	5 1	16 15.63	-21 23.9	1.284	2.238	11.0	18.5
5 11	16 10.12	-36 50.1	1.433	2.396	9.4	20.7	5 11	16 8.12	-20 32.9	1.232	2.226	6.1	18.2
5 21	15 59.17	-36 30.8	1.413	2.401	6.8	20.6	5 21	15 58.98	-19 34.0	1.203	2.215	0.8	17.8
5 31	15 48.09	-35 49.3	1.418	2.406	7.0	20.6	5 31	15 49.54	-18 32.6	1.199	2.204	4.8	18.0
6 10	15 38.42	-34 51.0	1.447	2.411	9.8	20.8	6 10	15 41.24	-17 35.2	1.220	2.193	10.1	18.3
6 20	15 31.29	-33 43.9	1.499	2.416	13.2	21.0	6 20	15 35.17	-16 47.8	1.262	2.183	14.8	18.5
6 30	15 27.37	-32 36.4	1.572	2.421	16.5	21.2	6 30	15 32.07	-16 14.7	1.323	2.174	18.9	18.8
<b>460185</b>	2014 QS <sub>117</sub>		5 22.4 130°33	0°5/22.2	16		<b>123717</b>	2000 YX <sub>126</sub>		5 22.4 42°23	7°2/26.1	17	
4 21	16 25.60	-20 52.9	1.679	2.554	13.7	21.9	4 21	16 24.79	-39 11.2	1.695	2.526	15.7	18.9
5 1	16 18.57	-20 25.6	1.621	2.567	9.7	21.7	5 1	16 18.51	-39 39.4	1.632	2.533	12.7	18.7
5 11	16 9.40	-19 51.9	1.588	2.580	5.3	21.5	5 11	16 9.60	-39 46.8	1.590	2.541	9.7	18.6
5 21	15 59.07	-19 13.8	1.580	2.592	0.8	21.2	5 21	15 59.15	-39 30.5	1.572	2.549	7.6	18.5
5 31	15 48.78	-18 34.8	1.600	2.603	4.2	21.5	5 31	15 48.60	-38 50.9	1.578	2.557	7.6	18.5
6 10	15 39.68	-17 59.2	1.647	2.614	8.5	21.8	6 10	15 39.40	-37 53.0	1.609	2.565	9.6	18.6
6 20	15 32.63	-17 30.7	1.718	2.624	12.4	22.0	6 20	15 32.60	-36 44.4	1.663	2.574	12.5	18.8
6 30	15 28.15	-17 12.1	1.809	2.633	15.7	22.2	6 30	15 28.82	-35 33.3	1.739	2.583	15.4	19.0
<b>416121</b>	2002 QS <sub>54</sub>		5 22.4 168°54	3°8/24.5	17		<b>47956</b>	2000 QS <sub>103</sub>		5 22.4 285°46	1°4/23.7	18	
4 21	16 27.08	-33 0.2	2.317	3.149	12.0	22.4	4 21	16 14.22	-27 40.3	4.228	5.076	6.7	19.2
5 1	16 19.43	-33 9.6	2.242	3.155	9.2	22.3	5 1	16 9.73	-27 45.9	4.143	5.071	4.9	19.0
5 11	16 9.85	-33 6.0	2.192	3.160	6.3	22.1	5 11	16 4.36	-27 46.7	4.085	5.066	3.1	18.9
5 21	15 59.14	-32 48.3	2.170	3.165	4.0	22.0	5 21	15 58.48	-27 42.8	4.056	5.060	1.5	18.8
5 31	15 48.34	-32 17.3	2.176	3.168	4.5	22.0	5 31	15 52.51	-27 34.7	4.056	5.055	2.1	18.8
6 10	15 38.48	-31 36.3	2.210	3.171	7.1	22.2	6 10	15 46.90	-27 23.5	4.085	5.050	3.9	18.9
6 20	15 30.38	-30 50.2	2.271	3.172	10.0	22.3	6 20	15 42.02	-27 10.7	4.141	5.045	5.8	19.1
6 30	15 24.59	-30 4.0	2.354	3.173	12.7	22.5	6 30	15 38.19	-26 58.0	4.223	5.040	7.5	19.2
<b>427410</b>	1999 UG <sub>31</sub>		5 22.4 342°47	5°6/23.8	17		<b>251820</b>	1999 TD <sub>145</sub>		5 22.4 253°06	1°4/21.4	18	
4 21	16 26.65	-31 34.7	1.667	2.522	14.8	20.3	4 21	16 18.53	-17 20.4	2.680	3.551	9.3	21.1
5 1	16 20.00	-32 46.5	1.595	2.519	11.5	20.1	5 1	16 13.13	-16 45.5	2.590	3.534	6.7	20.9
5 11	16 10.57	-33 47.0	1.545	2.515	8.1	19.9	5 11	16 6.35	-16 7.7	2.526	3.517	3.7	20.7
5 21	15 59.26	-34 31.3	1.520	2.513	5.8	19.8	5 21	15 58.74	-15 28.9	2.490	3.499	1.4	20.5
5 31	15 47.46	-34 57.1	1.521	2.510	6.5	19.8	5 31	15 50.97	-14 51.6	2.483	3.481	3.5	20.6
6 10	15 36.69	-35 5.7	1.548	2.508	9.6	20.0	6 10	15 43.73	-14 18.5	2.505	3.463	6.6	20.8
6 20	15 28.17	-35 1.7	1.597	2.506	13.1	20.2	6 20	15 37.62	-13 51.9	2.553	3.444	9.5	20.9
6 30	15 22.75	-34 51.1	1.668	2.505	16.2	20.4	6 30	15 33.11	-13 33.6	2.623	3.425	12.0	21.1
<b>7573</b>	Basfifty		5 22.4 226°97	0°5/22.1	18		<b>199996</b>	2007 JA <sub>34</sub>		5 22.4 194°94	0°9/21.9	17	
4 21	16 19.40	-19 27.1	2.656	3.524	9.5	18.8	4 21	16 21.47	-19 54.0	1.797	2.677	12.7	20.8
5 1	16 13.73	-19 13.7	2.572	3.515	6.8	18.6	5 1	16 15.67	-19 23.8	1.728	2.677	9.1	20.5
5 11	16 6.66	-18 57.0	2.515	3.506	3.7	18.4	5 11	16 7.88	-18 48.1	1.683	2.676	5.0	20.3
5 21	15 58.74	-18 38.2	2.485	3.497	0.6	18.1	5 21	15 58.94	-18 9.2	1.664	2.676	1.0	20.0
5 31	15 50.68	-18 18.9	2.485	3.487	3.0	18.3	5 31	15 49.89	-17 30.4	1.673	2.675	4.1	20.2
6 10	15 43.20	-18 1.3	2.514	3.477	6.2	18.5	6 10	15 41.80	-16 55.8	1.708	2.675	8.3	20.5
6 20	15 36.89	-17 47.3	2.568	3.467	9.1	18.7	6 20	15 35.47	-16 28.7	1.767	2.674	12.1	20.7
6 30	15 32.24	-17 38.9	2.646	3.456	11.7	18.8	6 30	15 31.48	-16 11.6	1.846	2.673	15.3	20.9
<b>194258</b>	2001 TG <sub>235</sub>		5 22.4 229°64	2°2/21.7	16		<b>128927</b>	2004 TZ <sub>74</sub>		5 22.4 237°06	1°3/23.1	17	
4 21	16 26.56	-15 1.7	1.667	2.544	13.7	21.0	4 21	16 23.45	-24 46.8	2.206	3.068	11.4	21.0
5 1	16 19.58	-14 57.1	1.587	2.533	9.9	20.8	5 1	16 17.00	-24 48.3	2.117	3.054	8.4	20.7
5 11	16 10.18	-14 52.7	1.531	2.522	5.6	20.5	5 11	16 8.63	-24 42.4	2.053	3.040	4.9	20.5
5 21	15 59.21	-14 50.0	1.501	2.510	2.3	20.2	5 21	15 59.05	-24 29.1	2.015	3.025	1.5	20.2
5 31	15 47.87	-14 51.0	1.498	2.497	5.1	20.4	5 31	15 49.18	-24 9.5	2.007	3.010	3.4	20.3
6 10	15 37.45	-14 57.8	1.522	2.484	9.6	20.6	6 10	15 40.03	-23 46.3	2.026	2.994	7.1	20.5
6 20	15 28.98	-15 12.2	1.569	2.470	13.8	20.8	6 20	15 32.41	-23 23.0	2.072	2.978	10.6	20.7
6 30	15 23.21	-15 35.3	1.637	2.455	17.3	21.0	6 30	15 26.95	-23 2.9	2.139	2.961	13.6	20.9
<b>334788</b>	2003 SZ <sub>167</sub>		5 22.4 222°41	5°7/25.6	18		<b>70297</b>	1999 RG <sub>129</sub>		5 22.4 222°53	1°2/21.9	17	
4 21	16 25.83												

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>499308</b>	2009 <i>WP</i> <sub>53</sub>		5 22.4 148°64	1.4/23.4	17		<b>127970</b>	2003 <i>HJ</i> <sub>36</sub>		5 22.5 318°59	0.7/22.2	18	
4 21	16 23.45	-27 28.5	2.120	2.977	12.0	21.1	4 21	16 20.96	-17 34.4	2.013	2.891	11.7	19.0
5 1	16 16.79	-26 50.5	2.051	2.986	8.7	20.9	5 1	16 15.31	-17 50.6	1.933	2.880	8.4	18.8
5 11	16 8.37	-26 1.1	2.007	2.993	5.1	20.7	5 11	16 7.75	-18 6.1	1.876	2.869	4.6	18.6
5 21	15 59.01	-25 1.9	1.991	3.000	1.7	20.5	5 21	15 58.98	-18 21.2	1.847	2.858	0.9	18.3
5 31	15 49.68	-23 56.4	2.003	3.007	3.4	20.6	5 31	15 49.93	-18 36.7	1.845	2.848	3.7	18.5
6 10	15 41.33	-22 49.4	2.044	3.013	7.0	20.9	6 10	15 41.58	-18 53.6	1.870	2.838	7.6	18.7
6 20	15 34.68	-21 45.9	2.111	3.019	10.4	21.1	6 20	15 34.75	-19 13.4	1.920	2.828	11.2	18.9
6 30	15 30.21	-20 50.2	2.200	3.024	13.3	21.3	6 30	15 30.08	-19 37.3	1.992	2.818	14.3	19.1
<b>139923</b>	2001 <i>RX</i> <sub>124</sub>		5 22.4 229°58	1.0/22.9	18		<b>281287</b>	2007 <i>RD</i> <sub>133</sub>		5 22.5 296°84	0.3/22.6	18	
4 21	16 21.16	-24 9.8	2.342	3.206	10.8	20.6	4 21	16 21.43	-22 21.2	1.796	2.673	12.8	21.1
5 1	16 15.22	-24 8.9	2.260	3.199	7.8	20.4	5 1	16 16.01	-22 7.6	1.698	2.644	9.4	20.8
5 11	16 7.58	-24 1.6	2.203	3.191	4.5	20.1	5 11	16 8.31	-21 46.5	1.623	2.615	5.3	20.5
5 21	15 58.92	-23 48.0	2.174	3.184	1.3	19.9	5 21	15 59.07	-21 18.7	1.575	2.586	0.8	20.1
5 31	15 50.08	-23 29.6	2.173	3.176	3.1	20.0	5 31	15 49.34	-20 46.3	1.553	2.557	4.0	20.3
6 10	15 41.93	-23 8.8	2.200	3.168	6.6	20.2	6 10	15 40.32	-20 13.2	1.557	2.528	8.6	20.5
6 20	15 35.20	-22 48.6	2.253	3.160	9.8	20.4	6 20	15 33.02	-19 43.7	1.585	2.499	12.8	20.6
6 30	15 30.42	-22 31.7	2.328	3.152	12.6	20.6	6 30	15 28.22	-19 21.6	1.634	2.470	16.6	20.8
<b>474929</b>	2005 <i>SL</i> <sub>247</sub>		5 22.4 230°82	0.2/22.5	18		<b>19869</b>	4202 <i>P-L</i>		5 22.5 187°67	4.8/24.8	18	
4 21	16 19.47	-21 54.2	2.685	3.549	9.5	22.4	4 21	16 24.80	-33 59.3	2.003	2.843	13.3	18.4
5 1	16 13.81	-21 42.1	2.599	3.540	6.8	22.2	5 1	16 18.19	-34 19.3	1.928	2.843	10.3	18.3
5 11	16 6.74	-21 25.1	2.539	3.530	3.8	22.0	5 11	16 9.36	-34 24.8	1.876	2.843	7.3	18.1
5 21	15 58.81	-21 4.3	2.508	3.520	0.5	21.7	5 21	15 59.18	-34 14.0	1.850	2.842	5.0	17.9
5 31	15 50.74	-20 41.1	2.506	3.509	2.8	21.9	5 31	15 48.81	-33 47.3	1.850	2.841	5.4	17.9
6 10	15 43.24	-20 17.9	2.532	3.499	6.0	22.1	6 10	15 39.44	-33 8.2	1.878	2.840	8.0	18.1
6 20	15 36.94	-19 57.1	2.585	3.487	8.9	22.3	6 20	15 31.99	-32 22.1	1.930	2.838	11.1	18.3
6 30	15 32.29	-19 40.8	2.661	3.476	11.5	22.4	6 30	15 27.10	-31 34.8	2.004	2.837	14.0	18.5
<b>178142</b>	2006 <i>TH</i> <sub>73</sub>		5 22.4 233°41	5.2/24.8	17		<b>414449</b>	2009 <i>FD</i> <sub>61</sub>		5 22.5 123°20	2.4/23.4	17	
4 21	16 24.41	-35 26.6	2.303	3.132	12.2	20.4	4 21	16 25.99	-26 36.6	1.526	2.397	15.0	21.7
5 1	16 17.82	-36 8.6	2.223	3.128	9.7	20.2	5 1	16 19.29	-26 41.8	1.463	2.404	11.1	21.4
5 11	16 9.14	-36 37.8	2.167	3.124	7.1	20.1	5 11	16 10.03	-26 35.5	1.423	2.410	6.6	21.2
5 21	15 59.14	-36 51.8	2.137	3.120	5.4	20.0	5 21	15 59.27	-26 17.3	1.408	2.416	2.7	20.9
5 31	15 48.84	-36 49.9	2.134	3.116	5.7	20.0	5 31	15 48.40	-25 49.0	1.419	2.422	4.5	21.1
6 10	15 39.34	-36 34.0	2.158	3.111	7.7	20.1	6 10	15 38.82	-25 15.3	1.455	2.428	8.9	21.3
6 20	15 31.53	-36 8.1	2.208	3.107	10.4	20.2	6 20	15 31.54	-24 41.5	1.515	2.433	13.0	21.6
6 30	15 26.06	-35 37.4	2.279	3.102	12.9	20.4	6 30	15 27.21	-24 12.8	1.595	2.438	16.6	21.8
<b>429672</b>	2011 <i>GN</i> <sub>81</sub>		5 22.4 104°13	1.3/21.8	17		<b>461575</b>	2004 <i>PP</i> <sub>2</sub>		5 22.5 287°58	4.9/20.9	17	
4 21	16 22.37	-17 46.6	1.868	2.746	12.4	21.4	4 21	16 24.77	-10 30.1	1.362	2.250	15.4	20.9
5 1	16 16.16	-17 28.2	1.809	2.757	8.8	21.2	5 1	16 18.90	-10 9.0	1.275	2.224	11.5	20.6
5 11	16 8.08	-17 7.2	1.775	2.768	4.8	21.0	5 11	16 10.14	-9 52.5	1.209	2.197	7.4	20.3
5 21	15 58.99	-16 45.4	1.768	2.778	1.4	20.7	5 21	15 59.34	-9 44.4	1.167	2.170	4.9	20.0
5 31	15 49.88	-16 25.4	1.788	2.789	4.1	21.0	5 31	15 47.81	-9 48.4	1.150	2.142	7.6	20.1
6 10	15 41.75	-16 10.1	1.834	2.799	8.0	21.2	6 10	15 37.10	-10 7.5	1.156	2.115	12.3	20.3
6 20	15 35.34	-16 1.5	1.905	2.809	11.6	21.5	6 20	15 28.55	-10 42.3	1.184	2.087	17.1	20.5
6 30	15 31.18	-16 1.4	1.998	2.818	14.5	21.7	6 30	15 23.11	-11 32.5	1.230	2.059	21.3	20.7
<b>159011</b>	Radomyshl		5 22.5 23°09	5.0/19.2	18		<b>18867</b>	1999 <i>RX</i> <sub>223</sub>		5 22.5 52°64	2.0/21.2	18	
4 21	16 19.08	-14 1.9	1.455	2.350	14.2	18.7	4 21	16 20.51	-19 0.8	1.601	2.489	13.6	17.1
5 1	16 14.10	-12 7.1	1.401	2.355	10.3	18.4	5 1	16 14.98	-17 48.1	1.548	2.500	9.6	16.9
5 11	16 7.04	-10 9.6	1.371	2.360	6.5	18.2	5 11	16 7.47	-16 29.5	1.518	2.512	5.3	16.6
5 21	15 58.86	-8 17.7	1.366	2.366	5.1	18.2	5 21	15 58.93	-15 9.9	1.515	2.524	2.1	16.5
5 31	15 50.71	-6 40.1	1.388	2.372	7.7	18.3	5 31	15 50.48	-13 55.3	1.538	2.537	5.1	16.7
6 10	15 43.73	-5 23.5	1.434	2.379	11.5	18.6	6 10	15 43.17	-12 51.6	1.587	2.550	9.2	17.0
6 20	15 38.70	-4 31.2	1.501	2.386	15.2	18.8	6 20	15 37.78	-12 2.7	1.659	2.562	13.0	17.2
6 30	15 36.14	-4 3.1	1.587	2.394	18.3	19.0	6 30	15 34.77	-11 30.2	1.752	2.576	16.1	17.4
<b>250389</b>	2003 <i>UX</i> <sub>146</sub>		5 22.5 195°37	2.6/21.1	18		<b>422680</b>	1999 <i>WG</i> <sub>16</sub>		5 22.5 162°59	1.0/21.9	17	
4 21	16 23.79	-14 51.6	2.055	2.928	11.7	21.6	4 21	16 23.29	-20 9.9	1.703	2.582	13.3	21.4
5 1	16 17.11	-14 13.0	1.981	2.925	8.4	21.4	5 1	16 17.01	-19 23.9	1.637	2.586	9.5	21.2
5 11	16 8.62	-13 32.9	1.932	2.922	4.9	21.2	5 11	16 8.64	-18 31.1	1.595	2.589	5.2	20.9
5 21	15 59.07	-12 54.1	1.911	2.918	2.6	21.0	5 21	15 59.09	-17 34.6	1.580	2.591	1.2	20.6
5 31	15 49.40	-12 20.0	1.919	2.913	4.8	21.1	5 31	15 49.49	-16 38.9	1.592	2.593	4.4	20.9
6 10	15 40.55	-11 53.8	1.953	2.907	8.4	21.4	6 10	15 40.96	-15 48.9	1.630	2.595	8.8	21.1
6 20	15 33.29	-11 37.6	2.013	2.900	11.8	21.5	6 20	15 34.36	-15 8.9	1.692	2.596	12.7	21.4
6 30	15 28.15	-11 32.8	2.094	2.893	14.7	21.7	6 30	15 30.22	-14 41.4	1.774	2.598	16.0	21.6
<b>494317</b>	2016 <i>SP</i> <sub>44</sub>		5 22.5 249°54	0.1/22.5	18		<b>203389</b>	2001 <i>XQ</i> <sub>120</sub>		5 22.5 88°49	1.0/22.1	18	
4 21	16 20.17	-21 18.3	2.536	3.403	9.9	21.7	4 21	16 26.66	-18 25.6	1.369	2.255	15.5	20.6
5 1	16 14.42	-21 14.1	2.448	3.390	7.1	21.5	5 1	16 19.66	-18 19.0	1.321	2.272	11.0	20.4
5 11	16 7.13	-21 5.6	2.385	3.376	4.0	21.3	5 11	16 10.15	-18 9.1	1.295	2.289	6.0	20.1
5 21	15 58.89	-20 53.5	2.351	3.362	0.5	21.0	5 21	15 59.29	-17 57.1	1.294	2.305	1.2	19.9
5 31	15 50.44	-20 39.1	2.345	3.348	3.0	21.2	5 31	15 48.48	-17 45.8	1.319	2.322	4.8	20.1
6 10	15 42.57	-20 24.6	2.367	3.334	6.3	21.4	6 10	15 39.12	-17 38.4	1.368	2.338	9.7	20.5
6 20	15 35.95	-20 12.1	2.416	3.319	9.4	21.5	6 20	15 32.15	-17 37.6	1.441	2.354	13.9	20.7
6 30	15 31.09	-20 3.9	2.488	3.304	12.1	21.7	6 30	15 28.15	-17 45.5	1.533	2.369	17.4	21.0
<b>267456</b>	2002 <i>EV</i> <sub>28</sub>		5 22.5 129°42	2.5/23.6	17		<b>454480</b>	2014 <i>OY</i> <sub>108</sub>		5 22.5			

EPHEMERIDES

5 22.5

5 22.5

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>66850</b>	1999 VX <sub>8</sub>		5 22.5 253°15	6°2/18.4	18	R	<b>248621</b>	2006 EY <sub>19</sub>		5 22.5 67°73	1°9/21.6	17	
4 21	16 20.30	- 4 14.0	2.219	3.085	11.2	19.7	4 21	16 21.40	-17 4.6	1.723	2.607	13.0	20.5
5 1	16 14.61	- 3 8.5	2.137	3.066	8.8	19.5	5 1	16 15.56	-16 32.9	1.670	2.620	9.2	20.3
5 11	16 7.28	- 2 8.4	2.080	3.046	6.7	19.3	5 11	16 7.81	-15 58.9	1.641	2.634	5.1	20.1
5 21	15 58.94	- 1 18.1	2.050	3.025	6.2	19.2	5 21	15 59.04	-15 25.3	1.637	2.647	1.9	19.9
5 31	15 50.37	- 0 42.1	2.047	3.004	7.7	19.3	5 31	15 50.30	-14 55.4	1.661	2.661	4.6	20.1
6 10	15 42.41	- 0 23.0	2.070	2.982	10.3	19.4	6 10	15 42.61	-14 32.7	1.711	2.674	8.6	20.4
6 20	15 35.77	- 0 21.6	2.116	2.960	13.0	19.5	6 20	15 36.74	-14 19.4	1.784	2.688	12.2	20.6
6 30	15 30.98	- 0 37.3	2.182	2.937	15.5	19.7	6 30	15 33.18	-14 16.8	1.878	2.702	15.2	20.9
<b>504862</b>	2010 UG <sub>33</sub>		5 22.5 303°88	5°0/23.8	17		<b>433773</b>	2015 BM <sub>60</sub>		5 22.5 81°66	1°9/23.3	17	
4 21	16 24.57	-29 52.9	1.326	2.201	16.7	21.0	4 21	16 24.33	-26 1.7	1.711	2.580	13.8	21.0
5 1	16 19.27	-30 32.8	1.235	2.173	12.9	20.7	5 1	16 17.79	-26 2.3	1.656	2.596	10.0	20.8
5 11	16 10.61	-31 0.0	1.163	2.145	8.7	20.4	5 11	16 9.09	-25 52.8	1.624	2.611	5.9	20.6
5 21	15 59.43	-31 10.3	1.115	2.117	5.3	20.1	5 21	15 59.22	-25 33.5	1.618	2.627	2.2	20.4
5 31	15 47.30	-31 1.7	1.090	2.089	6.5	20.1	5 31	15 49.37	-25 6.6	1.639	2.643	4.0	20.5
6 10	15 36.10	-30 37.0	1.089	2.062	11.1	20.2	6 10	15 40.71	-24 36.0	1.686	2.658	8.0	20.8
6 20	15 27.45	-30 2.7	1.108	2.035	16.0	20.4	6 20	15 34.08	-24 6.2	1.758	2.674	11.7	21.1
6 30	15 22.51	-29 27.0	1.146	2.008	20.4	20.6	6 30	15 30.03	-23 41.2	1.851	2.689	14.8	21.3
<b>69908</b>	1998 SU <sub>153</sub>		5 22.5 127°68	0°1/22.5	18		<b>3151</b>	Talbot		5 22.5 352°56	6°4/17.9	18	
4 21	16 22.16	-21 0.0	1.951	2.825	12.1	19.2	4 21	16 17.76	-10 49.3	1.507	2.402	13.8	15.1
5 1	16 16.11	-21 1.3	1.882	2.827	8.7	19.0	5 1	16 13.21	- 8 41.3	1.448	2.398	10.3	14.9
5 11	16 8.15	-20 58.0	1.837	2.829	4.8	18.8	5 11	16 6.64	- 6 32.6	1.412	2.395	7.3	14.7
5 21	15 59.05	-20 50.6	1.819	2.831	0.7	18.5	5 21	15 58.91	- 4 32.3	1.402	2.392	6.6	14.6
5 31	15 49.82	-20 40.8	1.828	2.832	3.6	18.7	5 31	15 51.12	- 2 49.7	1.417	2.390	9.0	14.8
6 10	15 41.47	-20 31.0	1.865	2.834	7.5	19.0	6 10	15 44.36	- 1 31.3	1.457	2.388	12.5	14.9
6 20	15 34.78	-20 23.8	1.926	2.836	11.1	19.2	6 20	15 39.43	- 0 40.0	1.518	2.388	15.9	15.2
6 30	15 30.34	-20 21.6	2.009	2.838	14.2	19.4	6 30	15 36.88	- 0 15.3	1.596	2.388	18.8	15.4
<b>417936</b>	2007 RT <sub>317</sub>		5 22.5 229°91	0°4/22.3	17		<b>467286</b>	2016 ER <sub>194</sub>		5 22.5 97°35	2°7/21.4	17	
4 21	16 25.55	-20 23.8	1.769	2.643	13.2	22.4	4 21	16 23.88	-15 31.0	1.455	2.343	14.6	21.4
5 1	16 18.83	-20 11.5	1.686	2.631	9.5	22.2	5 1	16 17.67	-15 2.7	1.398	2.349	10.5	21.1
5 11	16 9.79	-19 53.5	1.627	2.619	5.3	21.9	5 11	16 9.13	-14 33.5	1.363	2.356	6.0	20.9
5 21	15 59.28	-19 30.9	1.594	2.606	0.7	21.5	5 21	15 59.24	-14 6.3	1.354	2.362	2.7	20.7
5 31	15 48.45	-19 6.1	1.589	2.593	4.1	21.7	5 31	15 49.29	-13 44.7	1.370	2.369	5.6	20.9
6 10	15 38.51	-18 42.5	1.611	2.578	8.7	22.0	6 10	15 40.56	-13 32.2	1.412	2.375	10.0	21.2
6 20	15 30.45	-18 23.9	1.658	2.564	12.8	22.2	6 20	15 33.97	-13 30.9	1.475	2.382	14.1	21.4
6 30	15 24.99	-18 13.3	1.725	2.548	16.4	22.4	6 30	15 30.12	-13 41.6	1.558	2.388	17.5	21.7
<b>29427</b>	Oswaldthomas		5 22.5 354°06	5°1/20.6	17		<b>519665</b>	2012 XC <sub>159</sub>		5 22.5 251°54	2°4/23.9	18	
4 21	16 21.11	-12 46.8	1.106	2.011	16.9	19.1	4 21	16 21.02	-29 38.6	2.327	3.179	11.2	21.8
5 1	16 16.24	-11 51.7	1.050	2.008	12.3	18.9	5 1	16 15.21	-29 24.2	2.241	3.169	8.4	21.6
5 11	16 8.54	-10 57.7	1.014	2.006	7.6	18.6	5 11	16 7.66	-28 58.6	2.179	3.159	5.3	21.4
5 21	15 59.13	-10 10.8	1.000	2.004	5.1	18.4	5 21	15 59.05	-28 22.0	2.143	3.148	2.7	21.2
5 31	15 49.54	- 9 37.6	1.009	2.003	8.0	18.6	5 31	15 50.29	-27 36.1	2.136	3.137	3.6	21.3
6 10	15 41.31	- 9 22.6	1.040	2.003	12.8	18.8	6 10	15 42.28	-26 44.6	2.157	3.126	6.7	21.4
6 20	15 35.60	- 9 27.6	1.091	2.003	17.4	19.1	6 20	15 35.76	-25 51.9	2.204	3.115	9.9	21.6
6 30	15 33.09	- 9 51.8	1.158	2.004	21.3	19.4	6 30	15 31.28	-25 2.3	2.274	3.104	12.7	21.8
<b>267394</b>	2001 YR <sub>126</sub>		5 22.5 166°61	0°5/22.3	18		<b>468438</b>	2001 XJ <sub>217</sub>		5 22.5 118°84	9°0/19.8	17	
4 21	16 24.60	-18 23.7	1.784	2.660	13.0	20.2	4 21	16 25.04	+ 4 58.2	1.902	2.743	13.8	20.7
5 1	16 18.02	-18 40.1	1.715	2.661	9.3	20.0	5 1	16 17.95	+ 5 17.4	1.852	2.752	11.5	20.5
5 11	16 9.28	-18 54.7	1.670	2.662	5.1	19.8	5 11	16 9.07	+ 5 19.4	1.824	2.761	9.6	20.4
5 21	15 59.23	-19 7.5	1.651	2.663	0.8	19.4	5 21	15 59.23	+ 5 0.6	1.821	2.770	9.0	20.4
5 31	15 48.97	-19 19.4	1.660	2.664	4.0	19.7	5 31	15 49.40	+ 4 19.7	1.844	2.779	9.9	20.5
6 10	15 39.65	-19 31.8	1.696	2.664	8.2	19.9	6 10	15 40.54	+ 3 18.0	1.892	2.787	12.0	20.6
6 20	15 32.17	-19 46.6	1.756	2.664	12.1	20.2	6 20	15 33.39	+ 1 58.9	1.963	2.795	14.3	20.8
6 30	15 27.17	-20 5.7	1.838	2.665	15.3	20.4	6 30	15 28.43	+ 0 26.6	2.054	2.803	16.5	21.0
<b>261476</b>	2005 VY <sub>117</sub>		5 22.5 222°80	2°9/19.9	18		<b>370174</b>	2002 AG <sub>158</sub>		5 22.5 164°78	3°9/20.4	17	
4 21	16 18.16	-12 39.3	2.929	3.798	8.7	21.3	4 21	16 21.86	-10 5.8	2.170	3.042	11.2	21.4
5 1	16 12.72	-11 32.5	2.848	3.789	6.3	21.2	5 1	16 15.61	- 9 27.9	2.107	3.047	8.2	21.2
5 11	16 6.10	-10 24.9	2.794	3.779	4.0	21.0	5 11	16 7.78	- 8 53.0	2.068	3.051	5.3	21.0
5 21	15 58.81	- 9 19.4	2.770	3.768	2.9	20.9	5 21	15 59.06	- 8 23.9	2.058	3.055	3.9	21.0
5 31	15 51.44	- 8 19.6	2.775	3.757	4.5	21.0	5 31	15 50.30	- 8 3.6	2.075	3.058	5.6	21.1
6 10	15 44.60	- 7 28.3	2.809	3.746	6.9	21.1	6 10	15 42.32	- 7 54.2	2.119	3.061	8.5	21.2
6 20	15 38.79	- 6 47.7	2.870	3.734	9.4	21.3	6 20	15 35.79	- 7 56.4	2.188	3.063	11.5	21.4
6 30	15 34.41	- 6 18.8	2.953	3.722	11.5	21.4	6 30	15 31.18	- 8 10.3	2.278	3.065	14.0	21.6
<b>272454</b>	2005 UV <sub>40</sub>		5 22.5 125°39	0°1/22.5	15		<b>220307</b>	2003 EW <sub>29</sub>		5 22.5 117°17	2°5/21.3	17	
4 21	16 24.14	-20 48.4	1.973	2.844	12.2	21.6	4 21	16 22.95	-15 24.8	1.814	2.693	12.6	21.1
5 1	16 17.41	-20 45.9	1.913	2.856	8.7	21.4	5 1	16 16.60	-14 52.0	1.757	2.705	9.0	20.9
5 11	16 8.81	-20 38.8	1.876	2.868	4.8	21.2	5 11	16 8.38	-14 18.2	1.725	2.716	5.1	20.7
5 21	15 59.16	-20 27.7	1.867	2.879	0.6	20.9	5 21	15 59.15	-13 46.2	1.719	2.727	2.5	20.5
5 31	15 49.48	-20 14.4	1.886	2.890	3.5	21.1	5 31	15 49.92	-13 19.2	1.741	2.738	4.9	20.7
6 10	15 40.77	-20 1.5	1.933	2.900	7.5	21.4	6 10	15 41.70	-13 0.3	1.789	2.748	8.6	20.9
6 20	15 33.78	-19 51.8	2.004	2.910	10.9	21.6	6 20	15 35.25	-12 51.3	1.861	2.758	12.1	21.2
6 30	15 29.05	-19 47.4	2.098	2.920	13.9	21.8	6 30	15 31.08	-12 53.3	1.955	2.768	15.1	21.4
<b>312666</b>	2010 LS <sub>17</sub>		5 22.5 231°60	3°7/24.6	18		<b>333562</b>	2005 YC <sub>135</sub>		5 22.5 319°40	7°1/25.9	18	
4 21	16 21.5												



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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>219634</b>	2001 UK <sub>33</sub>		5 22.5 164°32	2°4/21.2	18		<b>203357</b>	2001 VZ <sub>63</sub>		5 22.5 271°30	1°6/23.0	17	
4 21	16 22.88	-14 1.5	2.289	3.159	10.7	21.1	4 21	16 25.82	-24 10.3	1.439	2.318	15.3	20.2
5 1	16 16.29	-13 35.5	2.222	3.165	7.7	20.9	5 1	16 19.68	-24 18.9	1.355	2.301	11.3	19.9
5 11	16 8.14	-13 9.6	2.182	3.171	4.5	20.7	5 11	16 10.60	-24 18.6	1.292	2.283	6.6	19.5
5 21	15 59.12	-12 45.9	2.169	3.176	2.4	20.6	5 21	15 59.54	-24 8.4	1.254	2.265	1.9	19.2
5 31	15 50.05	-12 26.8	2.186	3.180	4.4	20.7	5 31	15 47.89	-23 49.5	1.242	2.246	4.7	19.3
6 10	15 41.76	-12 14.3	2.231	3.183	7.5	20.9	6 10	15 37.24	-23 25.8	1.254	2.228	9.9	19.6
6 20	15 34.89	-12 10.1	2.301	3.186	10.6	21.1	6 20	15 28.92	-23 2.5	1.289	2.209	14.7	19.8
6 30	15 29.91	-12 14.8	2.393	3.188	13.2	21.3	6 30	15 23.79	-22 44.7	1.343	2.190	18.9	20.0
<b>502057</b>	2015 AK <sub>168</sub>		5 22.5 76°48	3°2/21.2	17		<b>513398</b>	2008 KM <sub>10</sub>		5 22.5 19°74	5°1/17.3	18	
4 21	16 22.75	-13 8.9	1.647	2.530	13.5	21.1	4 21	16 12.31	+ 4 53.8	4.137	4.969	7.1	21.1
5 1	16 16.60	-12 47.1	1.594	2.543	9.7	20.9	5 1	16 8.35	+ 5 25.1	4.081	4.971	6.0	21.0
5 11	16 8.43	-12 27.2	1.565	2.555	5.7	20.7	5 11	16 3.66	+ 5 48.6	4.051	4.973	5.3	21.0
5 21	15 59.17	-12 11.8	1.561	2.567	3.2	20.5	5 21	15 58.59	+ 6 2.4	4.047	4.974	5.2	20.9
5 31	15 49.90	-12 3.5	1.584	2.580	5.5	20.7	5 31	15 53.48	+ 6 5.3	4.069	4.976	5.8	21.0
6 10	15 41.72	-12 4.6	1.633	2.592	9.3	21.0	6 10	15 48.73	+ 5 56.8	4.118	4.978	6.8	21.1
6 20	15 35.43	-12 16.0	1.705	2.604	12.9	21.2	6 20	15 44.62	+ 5 37.4	4.190	4.981	8.0	21.2
6 30	15 31.56	-12 37.8	1.797	2.616	16.0	21.4	6 30	15 41.43	+ 5 7.9	4.283	4.983	9.2	21.3
<b>203321</b>	2001 TU <sub>109</sub>		5 22.5 126°93	1°4/23.1	16		<b>301562</b>	2009 HO <sub>19</sub>		5 22.5 49°29	0°7/22.2	17	
4 21	16 26.50	-25 12.6	1.510	2.383	15.0	21.0	4 21	16 20.29	-19 21.6	1.921	2.800	12.0	20.8
5 1	16 19.59	-24 58.0	1.450	2.393	10.9	20.8	5 1	16 14.72	-19 8.3	1.863	2.811	8.5	20.6
5 11	16 10.20	-24 32.3	1.413	2.403	6.3	20.5	5 11	16 7.39	-18 51.4	1.829	2.822	4.7	20.4
5 21	15 59.40	-23 56.3	1.401	2.412	1.7	20.3	5 21	15 59.08	-18 32.5	1.822	2.834	0.8	20.1
5 31	15 48.59	-23 13.2	1.416	2.421	4.2	20.5	5 31	15 50.75	-18 13.7	1.842	2.845	3.7	20.3
6 10	15 39.11	-22 28.5	1.456	2.429	8.9	20.7	6 10	15 43.34	-17 58.0	1.889	2.857	7.5	20.6
6 20	15 31.94	-21 47.5	1.520	2.437	13.1	21.0	6 20	15 37.56	-17 47.5	1.960	2.869	11.0	20.8
6 30	15 27.68	-21 14.8	1.605	2.444	16.7	21.3	6 30	15 33.92	-17 44.3	2.053	2.882	13.9	21.1
<b>18205</b>	3090 P-L		5 22.5 169°49	0°9/21.8	18		<b>230909</b>	2004 TU <sub>175</sub>		5 22.5 279°78	0°4/22.3	18	
4 21	16 18.63	-19 20.4	3.007	3.872	8.6	18.9	4 21	16 22.48	-19 50.6	1.771	2.650	12.9	20.3
5 1	16 13.02	-18 40.7	2.934	3.876	6.1	18.8	5 1	16 16.68	-19 47.6	1.690	2.638	9.3	20.1
5 11	16 6.27	-17 57.5	2.888	3.879	3.3	18.6	5 11	16 8.68	-19 40.4	1.632	2.625	5.1	19.8
5 21	15 58.89	-17 12.6	2.871	3.882	0.9	18.4	5 21	15 59.28	-19 30.0	1.600	2.612	0.7	19.4
5 31	15 51.50	-16 28.4	2.884	3.884	2.9	18.5	5 31	15 49.55	-19 18.0	1.595	2.599	4.0	19.7
6 10	15 44.68	-15 47.4	2.927	3.886	5.6	18.7	6 10	15 40.65	-19 7.4	1.617	2.586	8.4	19.9
6 20	15 38.93	-15 11.9	2.997	3.888	8.2	18.9	6 20	15 33.54	-19 1.0	1.662	2.573	12.5	20.1
6 30	15 34.61	-14 43.7	3.090	3.889	10.4	19.1	6 30	15 28.90	-19 1.4	1.728	2.561	15.9	20.3
<b>321660</b>	2010 CN <sub>22</sub>		5 22.5 165°30	0°7/22.1	18		<b>437903</b>	2001 VT <sub>133</sub>		5 22.5 164°64	4°1/19.7	18	
4 21	16 21.61	-19 24.1	1.991	2.867	11.8	21.2	4 21	16 18.70	- 7 42.7	2.677	3.544	9.5	22.2
5 1	16 15.68	-19 8.9	1.922	2.869	8.4	21.0	5 1	16 13.16	- 6 58.2	2.614	3.549	7.1	22.1
5 11	16 7.93	-18 49.8	1.877	2.870	4.6	20.8	5 11	16 6.39	- 6 17.3	2.577	3.553	4.9	21.9
5 21	15 59.12	-18 28.1	1.859	2.871	0.9	20.5	5 21	15 58.95	- 5 43.1	2.567	3.556	4.1	21.9
5 31	15 50.20	-18 6.4	1.869	2.872	3.7	20.7	5 31	15 51.47	- 5 17.9	2.587	3.559	5.4	22.0
6 10	15 42.13	-17 47.4	1.906	2.873	7.6	20.9	6 10	15 44.60	- 5 3.6	2.633	3.562	7.7	22.1
6 20	15 35.67	-17 33.7	1.968	2.873	11.1	21.2	6 20	15 38.86	- 5 0.9	2.705	3.564	10.0	22.3
6 30	15 31.36	-17 27.4	2.051	2.874	14.1	21.4	6 30	15 34.63	- 5 9.5	2.798	3.566	12.1	22.4
<b>338087</b>	2002 PC <sub>174</sub>		5 22.5 316°25	2°1/21.4	17		<b>146740</b>	2001 XC <sub>89</sub>		5 22.5 289°09	1°3/23.3	18	
4 21	16 20.11	-16 32.3	1.880	2.762	12.1	21.0	4 21	16 20.13	-26 20.6	2.068	2.935	11.9	19.4
5 1	16 14.68	-15 58.2	1.810	2.760	8.7	20.8	5 1	16 14.74	-25 52.9	1.984	2.923	8.7	19.2
5 11	16 7.41	-15 21.8	1.765	2.758	4.9	20.6	5 11	16 7.48	-25 14.6	1.923	2.911	5.1	19.0
5 21	15 59.06	-14 45.7	1.747	2.756	2.1	20.4	5 21	15 59.11	-24 27.0	1.889	2.899	1.6	18.7
5 31	15 50.60	-14 13.4	1.755	2.754	4.6	20.5	5 31	15 50.55	-23 32.8	1.883	2.887	3.4	18.8
6 10	15 42.99	-13 48.0	1.790	2.752	8.4	20.7	6 10	15 42.80	-22 36.3	1.904	2.875	7.2	19.0
6 20	15 37.00	-13 32.2	1.849	2.750	12.0	21.0	6 20	15 36.63	-21 42.3	1.950	2.863	10.8	19.2
6 30	15 33.18	-13 27.3	1.929	2.749	15.0	21.2	6 30	15 32.61	-20 55.0	2.018	2.852	13.9	19.4
<b>392621</b>	2011 UM <sub>23</sub>		5 22.5 68°97	5°0/25.0	16		<b>211772</b>	2004 BQ <sub>90</sub>		5 22.5 104°85	6°4/19.1	18	
4 21	16 23.03	-35 18.4	2.228	3.061	12.4	21.0	4 21	16 19.70	- 2 37.0	2.129	2.994	11.6	20.4
5 1	16 16.82	-35 45.3	2.155	3.063	9.7	20.8	5 1	16 14.07	- 1 49.0	2.076	3.003	9.1	20.3
5 11	16 8.62	-35 58.6	2.106	3.066	7.1	20.7	5 11	16 6.95	- 1 9.9	2.049	3.012	7.0	20.2
5 21	15 59.23	-35 56.4	2.082	3.068	5.2	20.6	5 21	15 59.03	- 0 43.6	2.047	3.020	6.4	20.1
5 31	15 49.65	-35 38.8	2.085	3.070	5.4	20.6	5 31	15 51.10	- 0 32.9	2.072	3.029	7.7	20.2
6 10	15 40.97	-35 8.7	2.114	3.072	7.6	20.7	6 10	15 43.96	- 0 38.8	2.122	3.037	10.0	20.4
6 20	15 34.00	-34 30.6	2.169	3.075	10.3	20.9	6 20	15 38.22	- 1 0.8	2.196	3.045	12.4	20.6
6 30	15 29.35	-33 49.5	2.246	3.077	12.8	21.1	6 30	15 34.32	- 1 37.1	2.289	3.053	14.6	20.7
<b>82306</b>	2001 KN <sub>48</sub>		5 22.5 312°38	1°4/22.9	18		<b>274643</b>	2008 TT <sub>120</sub>		5 22.5 294°77	2°5/21.5	18	
4 21	16 21.73	-23 45.4	1.338	2.227	15.6	19.1	4 21	16 21.63	-15 8.8	1.685	2.570	13.1	20.5
5 1	16 16.91	-23 51.4	1.252	2.203	11.5	18.8	5 1	16 16.18	-14 51.6	1.599	2.549	9.5	20.2
5 11	16 9.16	-23 48.5	1.186	2.179	6.7	18.5	5 11	16 8.47	-14 33.6	1.536	2.528	5.5	19.9
5 21	15 59.34	-23 36.1	1.144	2.155	1.8	18.1	5 21	15 59.26	-14 17.3	1.499	2.508	2.5	19.6
5 31	15 48.85	-23 15.8	1.126	2.131	4.8	18.2	5 31	15 49.64	-14 5.4	1.488	2.487	5.2	19.8
6 10	15 39.32	-22 51.6	1.132	2.109	10.2	18.4	6 10	15 40.79	-14 0.9	1.502	2.466	9.5	20.0
6 20	15 32.08	-22 28.8	1.159	2.087	15.3	18.7	6 20	15 33.71	-14 5.8	1.540	2.445	13.7	20.2
6 30	15 28.11	-22 12.6	1.204	2.065	19.7	18.9	6 30	15 29.13	-14 21.5	1.597	2.425	17.3	20.4
<b>502459</b>	2015 BJ <sub>305</sub>		5 22.5 17°39	6°8/19.7	17		<b>303895</b>	2005 TT <sub>103</sub>		5 22.5 178°69	0°1/22.5	17	
4 21	16 19.71												

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>158033</b>	2000 SW <sub>40</sub>		5 22.5 218°71	1°1/21.8	18		<b>511651</b>	2015 BN <sub>261</sub>		5 22.5 53°92	0°6/22.8	17	
4 21	16 22.00	-19 38.4	2.248	3.118	10.9	21.2	4 21	16 22.38	-23 20.5	1.594	2.474	14.0	20.9
5 1	16 15.84	-18 53.9	2.165	3.109	7.8	21.0	5 1	16 16.56	-23 5.4	1.536	2.483	10.1	20.7
5 11	16 8.01	-18 3.8	2.108	3.099	4.3	20.8	5 11	16 8.54	-22 41.8	1.501	2.493	5.6	20.4
5 21	15 59.19	-17 10.4	2.079	3.089	1.1	20.5	5 21	15 59.30	-22 11.1	1.492	2.503	1.1	20.1
5 31	15 50.22	-16 17.3	2.079	3.079	3.7	20.7	5 31	15 50.02	-21 36.5	1.509	2.514	3.9	20.4
6 10	15 42.00	-15 28.2	2.107	3.068	7.4	20.9	6 10	15 41.91	-21 2.3	1.551	2.524	8.4	20.6
6 20	15 35.21	-14 46.6	2.161	3.056	10.7	21.1	6 20	15 35.84	-20 32.7	1.617	2.535	12.4	20.9
6 30	15 30.39	-14 15.1	2.237	3.044	13.6	21.2	6 30	15 32.35	-20 11.0	1.704	2.546	15.7	21.1
<b>251505</b>	2008 EQ <sub>151</sub>		5 22.5 297°71	4°3/19.8	17		<b>377756</b>	2005 YX <sub>32</sub>		5 22.5 145°87	0°3/22.6	17	
4 21	16 17.78	-9 55.2	2.147	3.027	11.0	20.3	4 21	16 22.69	-22 34.3	1.917	2.789	12.4	21.8
5 1	16 12.90	-9 2.5	2.069	3.013	8.1	20.1	5 1	16 16.54	-22 16.0	1.849	2.793	8.9	21.6
5 11	16 6.42	-8 11.7	2.016	2.999	5.4	20.0	5 11	16 8.46	-21 50.7	1.806	2.797	4.9	21.3
5 21	15 58.98	-7 26.7	1.990	2.985	4.3	19.9	5 21	15 59.29	-21 19.7	1.789	2.801	0.8	21.0
5 31	15 51.38	-6 51.1	1.991	2.971	6.1	19.9	5 31	15 50.04	-20 45.6	1.801	2.805	3.6	21.3
6 10	15 44.42	-6 27.9	2.018	2.958	9.0	20.1	6 10	15 41.74	-20 12.2	1.839	2.808	7.6	21.5
6 20	15 38.80	-6 18.7	2.068	2.945	12.0	20.2	6 20	15 35.17	-19 43.0	1.902	2.811	11.2	21.7
6 30	15 35.01	-6 23.5	2.139	2.931	14.6	20.4	6 30	15 30.88	-19 21.1	1.986	2.814	14.3	21.9
<b>33333</b>	1998 SP <sub>66</sub>		5 22.5 340°75	0°9/22.3	18		<b>391722</b>	2008 CW <sub>82</sub>		5 22.5 342°48	5°7/19.5	17	
4 21	16 21.41	-17 18.0	0.965	1.875	18.2	17.3	4 21	16 18.46	-5 1.1	2.065	2.939	11.6	20.5
5 1	16 17.19	-17 46.4	0.900	1.863	13.2	17.0	5 1	16 13.35	-4 19.7	2.002	2.936	8.9	20.3
5 11	16 9.51	-18 16.1	0.855	1.852	7.4	16.6	5 11	16 6.66	-3 45.4	1.962	2.934	6.6	20.2
5 21	15 59.45	-18 46.8	0.830	1.842	1.3	16.2	5 21	15 59.05	-3 21.9	1.949	2.932	5.8	20.1
5 31	15 48.75	-19 18.8	0.827	1.833	5.8	16.5	5 31	15 51.35	-3 12.2	1.962	2.930	7.2	20.2
6 10	15 39.40	-19 53.3	0.845	1.826	12.1	16.8	6 10	15 44.38	-3 17.9	2.000	2.928	9.7	20.4
6 20	15 32.95	-20 31.7	0.881	1.820	17.7	17.1	6 20	15 38.80	-3 38.6	2.061	2.927	12.4	20.5
6 30	15 30.39	-21 15.5	0.934	1.816	22.4	17.3	6 30	15 35.10	-4 13.3	2.143	2.925	14.9	20.7
<b>175217</b>	2005 GA <sub>59</sub>		5 22.5 47°07	5°4/21.4	18		<b>478204</b>	2011 UN <sub>263</sub>		5 22.5 227°82	0°0/22.5	18	
4 21	16 25.44	-8 0.1	1.217	2.108	16.7	19.2	4 21	16 19.81	-21 25.5	2.716	3.581	9.4	22.6
5 1	16 18.94	-8 2.0	1.176	2.125	12.3	19.0	5 1	16 14.13	-21 11.6	2.630	3.571	6.8	22.4
5 11	16 9.89	-8 14.1	1.156	2.142	7.9	18.8	5 11	16 7.04	-20 53.3	2.570	3.561	3.7	22.2
5 21	15 59.44	-8 38.5	1.159	2.160	5.4	18.7	5 21	15 59.11	-20 31.5	2.539	3.550	0.5	21.9
5 31	15 49.08	-9 16.3	1.187	2.178	7.5	18.9	5 31	15 51.03	-20 7.7	2.536	3.540	2.8	22.1
6 10	15 40.19	-10 6.7	1.238	2.197	11.6	19.2	6 10	15 43.51	-19 44.2	2.563	3.528	6.0	22.3
6 20	15 33.76	-11 7.5	1.311	2.216	15.5	19.5	6 20	15 37.17	-19 23.4	2.615	3.517	8.9	22.4
6 30	15 30.34	-12 16.6	1.402	2.236	18.9	19.7	6 30	15 32.45	-19 7.4	2.692	3.505	11.4	22.6
<b>173938</b>	2001 WJ <sub>10</sub>		5 22.5 214°45	0°5/22.2	18		<b>425144</b>	2009 SF <sub>282</sub>		5 22.5 237°49	0°4/22.7	17	
4 21	16 21.49	-18 30.7	2.491	3.359	10.1	20.4	4 21	16 24.12	-21 43.0	1.823	2.696	12.9	21.3
5 1	16 15.39	-18 35.6	2.411	3.354	7.2	20.2	5 1	16 17.81	-21 46.5	1.744	2.688	9.3	21.1
5 11	16 7.75	-18 38.6	2.357	3.348	4.0	19.9	5 11	16 9.31	-21 44.6	1.690	2.681	5.2	20.8
5 21	15 59.17	-18 40.2	2.331	3.343	0.7	19.7	5 21	15 59.43	-21 37.4	1.661	2.673	0.9	20.5
5 31	15 50.42	-18 41.3	2.335	3.337	3.1	19.9	5 31	15 49.26	-21 26.4	1.660	2.665	3.8	20.7
6 10	15 42.28	-18 43.5	2.366	3.331	6.5	20.1	6 10	15 39.97	-21 14.2	1.686	2.656	8.1	20.9
6 20	15 35.42	-18 48.4	2.424	3.325	9.5	20.3	6 20	15 32.49	-21 4.2	1.736	2.647	12.1	21.1
6 30	15 30.35	-18 57.4	2.505	3.318	12.2	20.4	6 30	15 27.50	-20 59.2	1.808	2.638	15.4	21.3
<b>180102</b>	2003 FN <sub>3</sub>		5 22.5 91°47	11°0/22.5	17		<b>325926</b>	2010 VE <sub>6</sub>		5 22.5 258°17	3°8/20.7	17	
4 21	16 35.86	+ 4 57.4	1.113	1.969	20.4	19.5	4 21	16 22.52	-13 33.5	1.617	2.502	13.6	21.5
5 1	16 26.72	+ 4 27.7	1.062	1.979	16.6	19.3	5 1	16 16.76	-12 41.9	1.540	2.490	9.9	21.3
5 11	16 14.33	+ 3 27.6	1.031	1.988	13.0	19.1	5 11	16 8.76	-11 49.2	1.488	2.477	6.0	21.0
5 21	16 0.05	+ 1 54.0	1.023	1.997	11.0	19.0	5 21	15 59.36	-10 59.5	1.460	2.464	3.8	20.8
5 31	15 45.70	-0 10.5	1.039	2.006	12.1	19.1	5 31	15 49.69	-10 17.9	1.459	2.451	6.3	21.0
6 10	15 33.12	-2 38.1	1.079	2.015	15.4	19.3	6 10	15 40.93	-9 48.6	1.483	2.438	10.4	21.2
6 20	15 23.57	-5 18.4	1.142	2.024	19.1	19.6	6 20	15 34.05	-9 34.3	1.530	2.424	14.4	21.4
6 30	15 17.73	-8 2.7	1.223	2.032	22.5	19.9	6 30	15 29.71	-9 36.0	1.596	2.410	17.8	21.6
<b>173926</b>	2001 VR <sub>89</sub>		5 22.5 283°77	0°2/22.4	18		<b>444054</b>	2004 RC <sub>84</sub>		5 22.5 329°84	19°6/26.8	17	
4 21	16 19.57	-22 36.7	2.100	2.973	11.4	19.6	4 21	16 35.52	-51 53.8	1.047	1.849	25.1	20.8
5 1	16 14.23	-21 51.1	2.020	2.965	8.2	19.4	5 1	16 29.85	-54 33.5	0.990	1.843	22.9	20.6
5 11	16 7.17	-20 57.4	1.964	2.956	4.5	19.1	5 11	16 17.85	-56 39.5	0.949	1.837	21.0	20.4
5 21	15 59.09	-19 57.9	1.936	2.948	0.6	18.8	5 21	16 0.71	-57 54.9	0.923	1.831	19.8	20.3
5 31	15 50.90	-18 56.3	1.936	2.940	3.5	19.0	5 31	15 41.75	-58 8.0	0.913	1.826	19.7	20.3
6 10	15 43.49	-17 57.1	1.964	2.931	7.3	19.2	6 10	15 25.30	-57 21.0	0.920	1.822	20.8	20.3
6 20	15 37.60	-17 4.5	2.016	2.923	10.8	19.4	6 20	15 14.57	-55 48.4	0.942	1.818	22.7	20.5
6 30	15 33.73	-16 21.8	2.091	2.915	13.9	19.6	6 30	15 10.90	-53 49.6	0.977	1.814	25.0	20.6
<b>287338</b>	2002 TN <sub>332</sub>		5 22.5 131°57	0°5/22.7	17		<b>471797</b>	2012 VX <sub>78</sub>		5 22.5 205°31	0°7/22.2	17	
4 21	16 25.40	-22 21.2	1.808	2.679	13.1	22.3	4 21	16 21.06	-19 12.9	2.215	3.087	10.9	21.7
5 1	16 18.52	-22 19.3	1.747	2.689	9.4	22.1	5 1	16 15.22	-19 1.5	2.140	3.085	7.8	21.5
5 11	16 9.56	-22 10.8	1.709	2.699	5.2	21.9	5 11	16 7.71	-18 46.7	2.091	3.083	4.3	21.2
5 21	15 59.42	-21 56.4	1.697	2.709	0.9	21.6	5 21	15 59.22	-18 29.8	2.069	3.080	0.8	21.0
5 31	15 49.22	-21 38.0	1.714	2.718	3.7	21.8	5 31	15 50.59	-18 12.6	2.075	3.078	3.4	21.2
6 10	15 40.09	-21 18.8	1.758	2.727	7.9	22.1	6 10	15 42.69	-17 57.6	2.109	3.075	7.1	21.4
6 20	15 32.87	-21 2.2	1.826	2.735	11.6	22.3	6 20	15 36.23	-17 47.0	2.168	3.072	10.3	21.6
6 30	15 28.12	-20 51.3	1.915	2.743	14.8	22.5	6 30	15 31.72	-17 42.8	2.250	3.068	13.2	21.8
<b>291615</b>	2006 GD <sub>54</sub>		5 22.5 327°95	2°7/23.0	16		<b>339382</b>	2005 AV <sub>78</sub>		5 22.5 201°78	1°7/20.8	18	
4 21	16 21.75												

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>60041</b>	1999 <i>TF</i> <sub>100</sub>		5 22.5 256°96	1°8/23.4	18		<b>18108</b>	2000 <i>NT</i> <sub>5</sub>		5 22.5 283°19	4°4/24.6	18	
4 21	16 21.32	-25 57.6	2.386	3.245	10.8	19.0	4 21	16 23.93	-32 49.1	1.769	2.621	14.2	16.6
5 1	16 15.45	-26 11.7	2.303	3.238	7.9	18.8	5 1	16 18.04	-32 50.5	1.677	2.601	11.0	16.4
5 11	16 7.88	-26 18.9	2.246	3.231	4.8	18.6	5 11	16 9.62	-32 35.7	1.607	2.581	7.5	16.1
5 21	15 59.25	-26 18.8	2.216	3.224	2.0	18.4	5 21	15 59.54	-32 2.9	1.562	2.561	4.7	15.9
5 31	15 50.41	-26 12.0	2.214	3.217	3.3	18.5	5 31	15 49.05	-31 13.1	1.543	2.540	5.3	15.9
6 10	15 42.23	-26 0.6	2.241	3.210	6.5	18.7	6 10	15 39.49	-30 11.0	1.550	2.520	8.7	16.1
6 20	15 35.45	-25 47.3	2.293	3.202	9.6	18.9	6 20	15 31.99	-29 3.2	1.582	2.499	12.6	16.2
6 30	15 30.62	-25 35.1	2.368	3.195	12.3	19.0	6 30	15 27.30	-27 57.1	1.634	2.479	16.1	16.4
<b>380637</b>	2004 <i>XK</i> <sub>22</sub>		5 22.5 218°34	0°8/23.0	18		<b>471378</b>	2011 <i>SU</i> <sub>99</sub>		5 22.5 195°06	3°5/24.4	17	
4 21	16 22.48	-25 23.7	2.216	3.078	11.4	20.7	4 21	16 23.07	-32 14.0	2.709	3.543	10.4	21.9
5 1	16 16.27	-24 46.9	2.133	3.071	8.3	20.5	5 1	16 16.61	-32 35.9	2.628	3.541	8.0	21.7
5 11	16 8.31	-24 0.4	2.074	3.063	4.7	20.2	5 11	16 8.49	-32 47.9	2.571	3.539	5.5	21.5
5 21	15 59.31	-23 5.6	2.043	3.054	1.1	19.9	5 21	15 59.37	-32 48.8	2.542	3.536	3.6	21.4
5 31	15 50.19	-22 5.6	2.042	3.046	3.2	20.1	5 31	15 50.06	-32 38.8	2.541	3.533	4.1	21.4
6 10	15 41.88	-21 4.7	2.068	3.036	7.0	20.3	6 10	15 41.42	-32 19.9	2.569	3.529	6.3	21.6
6 20	15 35.10	-20 7.5	2.120	3.027	10.4	20.5	6 20	15 34.14	-31 55.2	2.623	3.525	8.8	21.7
6 30	15 30.40	-19 17.8	2.196	3.016	13.4	20.7	6 30	15 28.75	-31 28.4	2.701	3.521	11.2	21.9
<b>519150</b>	2010 <i>NT</i> <sub>42</sub>		5 22.5 284°59	4°1/20.6	18		<b>10183</b>	Ampère		5 22.5 54°59	0°2/22.5	18	
4 21	16 20.16	-7 55.8	2.303	3.173	10.7	21.1	4 21	16 24.80	-21 12.0	1.180	2.073	16.9	18.1
5 1	16 14.58	-7 42.2	2.217	3.155	8.0	20.9	5 1	16 18.76	-20 58.5	1.133	2.087	12.1	17.9
5 11	16 7.39	-7 33.6	2.157	3.137	5.4	20.7	5 11	16 9.94	-20 37.6	1.107	2.101	6.6	17.6
5 21	15 59.20	-7 32.3	2.124	3.119	4.1	20.6	5 21	15 59.56	-20 11.0	1.104	2.116	0.9	17.3
5 31	15 50.76	-7 40.3	2.119	3.101	5.6	20.6	5 31	15 49.24	-19 42.6	1.126	2.131	4.9	17.6
6 10	15 42.89	-7 58.7	2.141	3.083	8.4	20.8	6 10	15 40.49	-19 17.4	1.171	2.146	10.2	18.0
6 20	15 36.27	-8 27.7	2.187	3.065	11.4	20.9	6 20	15 34.38	-18 59.6	1.237	2.162	14.8	18.3
6 30	15 31.46	-9 6.8	2.255	3.047	14.0	21.1	6 30	15 31.47	-18 52.2	1.322	2.177	18.7	18.6
<b>86250</b>	1999 <i>TV</i> <sub>172</sub>		5 22.5 194°20	1°5/21.5	18		<b>201595</b>	2003 <i>SC</i> <sub>146</sub>		5 22.5 212°07	1°2/23.3	18	
4 21	16 18.42	-16 20.6	2.794	3.664	9.0	20.0	4 21	16 22.12	-26 2.0	2.264	3.124	11.2	20.5
5 1	16 13.03	-15 52.7	2.718	3.662	6.4	19.8	5 1	16 16.02	-25 38.5	2.183	3.119	8.2	20.3
5 11	16 6.40	-15 23.3	2.669	3.660	3.6	19.6	5 11	16 8.19	-25 5.8	2.126	3.113	4.8	20.1
5 21	15 59.06	-14 54.1	2.649	3.658	1.5	19.4	5 21	15 59.33	-24 24.8	2.097	3.107	1.5	19.9
5 31	15 51.63	-14 27.2	2.658	3.655	3.4	19.6	5 31	15 50.35	-23 37.8	2.097	3.101	3.2	20.0
6 10	15 44.77	-14 4.8	2.695	3.652	6.2	19.7	6 10	15 42.16	-22 48.6	2.124	3.094	6.8	20.2
6 20	15 39.01	-13 48.6	2.758	3.649	8.9	19.9	6 20	15 35.47	-22 1.4	2.178	3.086	10.1	20.4
6 30	15 34.75	-13 39.7	2.845	3.645	11.2	20.1	6 30	15 30.82	-21 19.7	2.255	3.079	13.0	20.6
<b>507576</b>	2013 <i>AK</i> <sub>127</sub>		5 22.5 112°42	0°2/22.4	17		<b>333494</b>	2004 <i>XG</i> <sub>172</sub>		5 22.5 237°46	1°0/23.1	18	
4 21	16 20.35	-20 29.3	2.456	3.324	10.2	22.0	4 21	16 22.91	-25 7.2	2.215	3.076	11.4	21.2
5 1	16 14.50	-20 19.2	2.392	3.335	7.2	21.8	5 1	16 16.69	-24 48.8	2.125	3.063	8.3	20.9
5 11	16 7.23	-20 5.4	2.355	3.346	3.9	21.6	5 11	16 8.62	-24 21.8	2.061	3.048	4.8	20.7
5 21	15 59.16	-19 48.7	2.345	3.357	0.5	21.4	5 21	15 59.40	-23 46.6	2.023	3.034	1.3	20.4
5 31	15 51.07	-19 31.0	2.364	3.367	3.0	21.6	5 31	15 49.95	-23 5.5	2.015	3.019	3.3	20.5
6 10	15 43.70	-19 14.5	2.411	3.377	6.3	21.8	6 10	15 41.23	-22 22.1	2.034	3.003	7.0	20.7
6 20	15 37.65	-19 1.3	2.484	3.387	9.2	22.0	6 20	15 34.04	-21 40.3	2.079	2.987	10.5	20.9
6 30	15 33.37	-18 53.1	2.580	3.397	11.7	22.2	6 30	15 28.96	-21 4.0	2.147	2.970	13.6	21.1
<b>397125</b>	2005 <i>WK</i> <sub>31</sub>		5 22.5 272°75	1°9/23.9	17		<b>233771</b>	2008 <i>TO</i> <sub>124</sub>		5 22.5 214°88	1°5/23.3	18	
4 21	16 19.74	-28 54.0	2.393	3.248	10.9	20.5	4 21	16 22.87	-25 53.6	2.070	2.933	12.0	20.7
5 1	16 14.23	-28 25.0	2.314	3.245	8.1	20.3	5 1	16 16.72	-25 45.8	1.992	2.929	8.8	20.5
5 11	16 7.15	-27 45.0	2.260	3.242	4.9	20.1	5 11	16 8.64	-25 29.0	1.937	2.924	5.2	20.3
5 21	15 59.17	-26 55.3	2.233	3.240	2.2	19.9	5 21	15 59.41	-25 3.5	1.910	2.919	1.8	20.1
5 31	15 51.12	-25 58.1	2.235	3.237	3.2	20.0	5 31	15 49.99	-24 31.3	1.910	2.914	3.5	20.2
6 10	15 43.85	-24 57.6	2.264	3.235	6.3	20.2	6 10	15 41.42	-23 55.7	1.938	2.909	7.2	20.4
6 20	15 38.00	-23 58.0	2.320	3.232	9.4	20.4	6 20	15 34.50	-23 20.7	1.991	2.903	10.7	20.6
6 30	15 34.05	-23 3.4	2.400	3.230	12.1	20.6	6 30	15 29.80	-22 50.1	2.067	2.896	13.8	20.8
<b>308418</b>	2005 <i>SP</i> <sub>117</sub>		5 22.5 241°66	2°0/21.3	18		<b>230069</b>	2000 <i>UC</i> <sub>30</sub>		5 22.5 112°99	7°1/16.9	17	
4 21	16 19.60	-14 22.6	2.578	3.449	9.6	21.4	4 21	16 22.35	-3 1.8	2.183	3.043	11.6	20.1
5 1	16 14.03	-14 4.3	2.494	3.437	6.9	21.2	5 1	16 15.83	-1 3.5	2.142	3.064	9.1	20.0
5 11	16 7.03	-13 45.9	2.436	3.425	4.0	21.0	5 11	16 7.91	+0 46.8	2.129	3.083	7.4	19.9
5 21	15 59.16	-13 29.1	2.406	3.413	2.0	20.8	5 21	15 59.30	+2 22.8	2.144	3.103	7.2	19.9
5 31	15 51.13	-13 15.8	2.405	3.400	3.9	20.9	5 31	15 50.80	+3 39.2	2.187	3.121	8.6	20.1
6 10	15 43.64	-13 7.9	2.432	3.388	6.9	21.1	6 10	15 43.19	+4 33.3	2.255	3.139	10.8	20.2
6 20	15 37.33	-13 6.7	2.485	3.374	9.7	21.3	6 20	15 37.03	+5 5.0	2.347	3.157	12.9	20.4
6 30	15 32.65	-13 13.3	2.560	3.361	12.3	21.4	6 30	15 32.73	+5 16.1	2.457	3.174	14.8	20.6
<b>499883</b>	2011 <i>FL</i> <sub>73</sub>		5 22.5 103°14	2°4/21.4	17		<b>261093</b>	2005 <i>ST</i> <sub>251</sub>		5 22.5 205°88	3°8/19.8	18	
4 21	16 22.22	-15 46.3	1.763	2.645	12.8	21.9	4 21	16 18.42	-7 3.6	2.991	3.854	8.7	21.8
5 1	16 16.22	-15 11.9	1.704	2.653	9.2	21.7	5 1	16 12.97	-6 29.8	2.916	3.848	6.6	21.6
5 11	16 8.31	-14 36.1	1.670	2.661	5.2	21.5	5 11	16 6.37	-5 59.7	2.868	3.842	4.6	21.5
5 21	15 59.33	-14 1.7	1.661	2.670	2.4	21.3	5 21	15 59.11	-5 35.7	2.848	3.836	3.8	21.4
5 31	15 50.32	-13 32.4	1.680	2.678	4.9	21.5	5 31	15 51.75	-5 19.9	2.857	3.829	5.0	21.5
6 10	15 42.31	-13 11.1	1.725	2.686	8.8	21.7	6 10	15 44.89	-5 13.6	2.893	3.821	7.1	21.6
6 20	15 36.09	-13 0.2	1.794	2.694	12.3	22.0	6 20	15 39.02	-5 17.4	2.956	3.813	9.3	21.8
6 30	15 32.16	-13 0.6	1.883	2.701	15.4	22.2	6 30	15 34.51	-5 31.3	3.040	3.805	11.3	21.9
<b>33510</b>	1999 <i>GM</i> <sub>31</sub>		5 22.5 81°70	2°0/21.7	18		<b>4536</b>	Drewpinsky		5 22.5 43°78	3°7/23.9	18	

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>69594</b>	Ulferika		5 22.5	13 <sup>h</sup> 18 <sup>m</sup>	0 <sup>s</sup> .9/22.8	17	<b>85991</b>	1999 JJ <sub>16</sub>		5 22.5	296 <sup>h</sup> 56 <sup>m</sup>	0 <sup>s</sup> .1/22.5	18
4 21	16 22.36	-21 57.0	1.120	2.019	17.2	18.5	4 21	16 20.14	-21 23.0	2.031	2.906	11.7	19.6
5 1	16 17.38	-22 10.8	1.065	2.021	12.4	18.2	5 1	16 14.89	-21 8.7	1.942	2.888	8.4	19.3
5 11	16 9.38	-22 17.4	1.030	2.025	7.0	17.9	5 11	16 7.73	-20 48.7	1.877	2.869	4.7	19.1
5 21	15 59.54	-22 16.9	1.018	2.029	1.4	17.6	5 21	15 59.37	-20 24.1	1.839	2.851	0.6	18.7
5 31	15 49.49	-22 10.9	1.028	2.034	4.9	17.8	5 31	15 50.71	-19 57.0	1.829	2.833	3.5	18.9
6 10	15 40.90	-22 3.4	1.062	2.041	10.4	18.1	6 10	15 42.74	-19 30.6	1.845	2.815	7.6	19.1
6 20	15 34.99	-21 58.7	1.115	2.048	15.4	18.4	6 20	15 36.29	-19 8.1	1.886	2.797	11.3	19.3
6 30	15 32.46	-22 0.4	1.187	2.056	19.4	18.7	6 30	15 31.97	-18 52.4	1.948	2.779	14.5	19.5
<b>150903</b>	2001 SN <sub>341</sub>		5 22.5	138 <sup>h</sup> 91 <sup>m</sup>	0 <sup>s</sup> .9/23.0	17	<b>4225</b>	Hobart		5 22.5	292 <sup>h</sup> 31 <sup>m</sup>	0 <sup>s</sup> .1/22.5	18
4 21	16 24.50	-24 20.9	2.037	2.900	12.1	21.5	4 21	16 24.54	-20 36.2	1.321	2.210	15.8	16.2
5 1	16 17.74	-24 7.3	1.973	2.911	8.8	21.3	5 1	16 18.86	-20 38.9	1.246	2.198	11.4	15.9
5 11	16 9.13	-23 45.6	1.933	2.922	5.0	21.1	5 11	16 10.26	-20 36.2	1.192	2.186	6.4	15.6
5 21	15 59.50	-23 16.8	1.921	2.932	1.2	20.8	5 21	15 59.73	-20 28.2	1.161	2.173	0.9	15.2
5 31	15 49.85	-22 43.1	1.937	2.941	3.4	21.0	5 31	15 48.71	-20 17.1	1.156	2.161	4.8	15.4
6 10	15 41.17	-22 8.2	1.981	2.950	7.2	21.3	6 10	15 38.80	-20 6.5	1.174	2.149	10.3	15.7
6 20	15 34.21	-21 35.9	2.051	2.958	10.6	21.5	6 20	15 31.27	-20 0.3	1.215	2.137	15.2	15.9
6 30	15 29.49	-21 9.3	2.142	2.966	13.6	21.7	6 30	15 26.96	-20 2.0	1.274	2.126	19.4	16.1
<b>394658</b>	2008 BU <sub>20</sub>		5 22.5	175 <sup>h</sup> 54 <sup>m</sup>	4 <sup>s</sup> .6/19.6	17	<b>510344</b>	2011 SE <sub>121</sub>		5 22.5	162 <sup>h</sup> 85 <sup>m</sup>	3 <sup>s</sup> .3/19.9	18
4 21	16 18.83	- 6 13.6	2.538	3.405	9.9	21.4	4 21	16 18.05	- 9 1.5	3.151	4.015	8.3	22.5
5 1	16 13.39	- 5 32.7	2.474	3.406	7.5	21.3	5 1	16 12.62	- 8 16.2	3.087	4.022	6.1	22.3
5 11	16 6.65	- 4 56.8	2.435	3.407	5.4	21.1	5 11	16 6.16	- 7 33.2	3.049	4.027	4.1	22.2
5 21	15 59.18	- 4 28.8	2.423	3.408	4.6	21.1	5 21	15 59.13	- 6 55.2	3.041	4.033	3.3	22.2
5 31	15 51.64	- 4 11.3	2.439	3.409	5.9	21.2	5 31	15 52.09	- 6 24.1	3.062	4.037	4.5	22.3
6 10	15 44.72	- 4 5.9	2.483	3.409	8.2	21.3	6 10	15 45.57	- 6 1.9	3.111	4.042	6.6	22.4
6 20	15 38.97	- 4 12.8	2.550	3.409	10.6	21.5	6 20	15 40.00	- 5 49.4	3.187	4.045	8.7	22.5
6 30	15 34.81	- 4 31.6	2.640	3.409	12.7	21.6	6 30	15 35.74	- 5 46.7	3.285	4.048	10.6	22.7
<b>387110</b>	2012 TW <sub>152</sub>		5 22.5	180 <sup>h</sup> 66 <sup>m</sup>	2 <sup>s</sup> .5/21.2	17	<b>134132</b>	2005 AQ <sub>12</sub>		5 22.5	185 <sup>h</sup> 37 <sup>m</sup>	1 <sup>s</sup> .7/21.8	17
4 21	16 20.43	-15 14.3	2.001	2.881	11.6	21.7	4 21	16 25.75	-16 57.5	1.870	2.743	12.6	21.2
5 1	16 14.86	-14 35.1	1.934	2.881	8.3	21.5	5 1	16 18.81	-16 37.6	1.799	2.743	9.0	21.0
5 11	16 7.58	-13 54.5	1.891	2.881	4.8	21.3	5 11	16 9.84	-16 15.3	1.752	2.743	5.1	20.7
5 21	15 59.31	-13 15.4	1.874	2.881	2.5	21.1	5 21	15 59.65	-15 52.4	1.732	2.742	1.7	20.5
5 31	15 50.95	-12 41.4	1.886	2.881	4.7	21.3	5 31	15 49.31	-15 31.6	1.740	2.740	4.4	20.7
6 10	15 43.40	-12 15.4	1.924	2.881	8.2	21.5	6 10	15 39.89	-15 15.9	1.776	2.738	8.5	20.9
6 20	15 37.39	-11 59.5	1.986	2.881	11.6	21.7	6 20	15 32.26	-15 7.6	1.836	2.734	12.2	21.1
6 30	15 33.41	-11 55.1	2.069	2.880	14.4	21.9	6 30	15 27.00	-15 8.5	1.918	2.730	15.3	21.3
<b>419266</b>	2009 VR <sub>108</sub>		5 22.5	98 <sup>h</sup> 51 <sup>m</sup>	2 <sup>s</sup> .2/23.2	18	<b>286166</b>	2001 UZ <sub>7</sub>		5 22.5	143 <sup>h</sup> 88 <sup>m</sup>	2 <sup>s</sup> .9/20.7	17
4 21	16 31.01	-24 25.9	2.019	2.872	12.7	21.4	4 21	16 19.34	-13 32.9	2.316	3.191	10.4	20.8
5 1	16 22.44	-25 21.3	1.965	2.896	9.2	21.2	5 1	16 13.87	-12 45.3	2.251	3.196	7.5	20.6
5 11	16 11.76	-26 10.3	1.936	2.920	5.5	21.0	5 11	16 6.96	-11 57.6	2.212	3.200	4.5	20.4
5 21	15 59.87	-26 50.1	1.936	2.944	2.4	20.8	5 21	15 59.27	-11 12.8	2.201	3.204	2.9	20.3
5 31	15 47.92	-27 20.1	1.966	2.966	3.9	21.0	5 31	15 51.53	-10 34.2	2.218	3.208	4.7	20.5
6 10	15 37.04	-27 41.3	2.024	2.989	7.4	21.2	6 10	15 44.52	-10 4.4	2.262	3.212	7.6	20.7
6 20	15 28.11	-27 56.5	2.109	3.010	10.7	21.5	6 20	15 38.82	- 9 45.2	2.332	3.215	10.5	20.8
6 30	15 21.68	-28 9.1	2.216	3.031	13.4	21.7	6 30	15 34.87	- 9 37.4	2.423	3.219	13.0	21.0
<b>467483</b>	2006 SE <sub>321</sub>		5 22.5	150 <sup>h</sup> 64 <sup>m</sup>	0 <sup>s</sup> .8/22.9	17	<b>257573</b>	1999 CH <sub>4</sub>		5 22.6	69 <sup>h</sup> 90 <sup>m</sup>	2 <sup>s</sup> .4/23.6	18
4 21	16 26.14	-22 52.3	1.926	2.792	12.6	22.1	4 21	16 26.49	-26 58.6	1.545	2.414	15.0	20.1
5 1	16 19.06	-22 57.5	1.860	2.800	9.1	21.9	5 1	16 19.50	-27 1.6	1.501	2.440	10.9	19.9
5 11	16 9.95	-22 56.3	1.818	2.808	5.1	21.7	5 11	16 10.19	-26 52.7	1.479	2.465	6.5	19.7
5 21	15 59.64	-22 48.9	1.803	2.815	1.2	21.4	5 21	15 59.70	-26 32.3	1.482	2.490	2.7	19.5
5 31	15 49.23	-22 36.4	1.817	2.821	3.6	21.6	5 31	15 49.35	-26 2.6	1.512	2.516	4.3	19.7
6 10	15 39.81	-22 21.9	1.858	2.827	7.6	21.8	6 10	15 40.43	-25 28.5	1.568	2.541	8.4	20.0
6 20	15 32.21	-22 8.4	1.924	2.832	11.2	22.1	6 20	15 33.79	-24 55.0	1.647	2.565	12.2	20.3
6 30	15 27.01	-21 59.2	2.013	2.837	14.3	22.3	6 30	15 29.94	-24 26.7	1.748	2.590	15.4	20.5
<b>440973</b>	2007 CH <sub>8</sub>		5 22.5	343 <sup>h</sup> 63 <sup>m</sup>	6 <sup>s</sup> .5/26.5	18	<b>131104</b>	2001 AN <sub>28</sub>		5 22.6	75 <sup>h</sup> 83 <sup>m</sup>	3 <sup>s</sup> .0/23.6	17
4 21	16 23.17	-40 50.8	2.254	3.063	13.0	20.6	4 21	16 26.26	-27 21.2	1.790	2.652	13.6	19.5
5 1	16 17.10	-41 10.4	2.176	3.061	10.7	20.4	5 1	16 19.34	-27 58.4	1.733	2.667	10.1	19.3
5 11	16 8.93	-41 12.4	2.121	3.060	8.4	20.2	5 11	16 10.18	-28 26.0	1.699	2.682	6.3	19.1
5 21	15 59.51	-40 54.7	2.091	3.058	6.7	20.1	5 21	15 59.72	-28 42.3	1.692	2.696	3.3	18.9
5 31	15 49.93	-40 17.5	2.087	3.057	6.7	20.1	5 31	15 49.15	-28 47.2	1.711	2.711	4.4	19.0
6 10	15 41.32	-39 24.2	2.108	3.056	8.2	20.2	6 10	15 39.70	-28 43.3	1.757	2.726	8.0	19.3
6 20	15 34.55	-38 20.3	2.155	3.055	10.5	20.4	6 20	15 32.27	-28 34.5	1.828	2.741	11.4	19.5
6 30	15 30.20	-37 12.2	2.224	3.054	12.9	20.5	6 30	15 27.47	-28 25.1	1.920	2.755	14.5	19.7
<b>141888</b>	2002 PB <sub>54</sub>		5 22.5	267 <sup>h</sup> 28 <sup>m</sup>	0 <sup>s</sup> .1/22.5	17	<b>181668</b>	2008 AX <sub>44</sub>		5 22.6	355 <sup>h</sup> 73 <sup>m</sup>	0 <sup>s</sup> .2/22.6	17
4 21	16 24.62	-21 4.0	1.693	2.570	13.5	20.8	4 21	16 19.92	-21 50.8	1.163	2.064	16.6	19.4
5 1	16 18.48	-20 57.4	1.604	2.550	9.8	20.5	5 1	16 15.61	-21 39.4	1.102	2.059	12.0	19.1
5 11	16 9.90	-20 44.8	1.538	2.530	5.5	20.2	5 11	16 8.45	-21 19.5	1.060	2.056	6.7	18.8
5 21	15 59.67	-20 26.8	1.497	2.509	0.8	19.8	5 21	15 59.51	-20 52.7	1.041	2.053	1.0	18.4
5 31	15 48.97	-20 5.5	1.484	2.488	4.2	20.0	5 31	15 50.30	-20 22.7	1.046	2.052	4.9	18.7
6 10	15 39.09	-19 44.3	1.497	2.467	8.9	20.2	6 10	15 42.42	-19 54.7	1.073	2.052	10.4	19.0
6 20	15 31.11	-19 27.0	1.533	2.445	13.3	20.4	6 20	15 37.02	-19 33.7	1.120	2.053	15.3	19.3
6 30	15 25.80	-19 17.2	1.590	2.423	17.1	20.6	6 30	15 34.84	-19 23.2				

EPHEMERIDES

5 22.6

5 22.6

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>364616</b>	2007 <i>SO</i> <sub>4</sub>		5 22.6 258°77	2°1/21.6	17		<b>485413</b>	2011 <i>OC</i> <sub>60</sub>		5 22.6 180°77	4°4/17.4	18	
4 21	16 24.25	-17 34.0	1.580	2.463	14.0	21.3	4 21	16 11.96	+ 4 50.4	4.933	5.761	6.1	21.5
5 1	16 18.23	-16 56.6	1.497	2.446	10.1	21.1	5 1	16 8.11	+ 5 18.3	4.874	5.761	5.2	21.5
5 11	16 9.76	-16 14.3	1.436	2.429	5.7	20.8	5 11	16 3.65	+ 5 39.6	4.841	5.761	4.5	21.4
5 21	15 59.70	-15 29.9	1.402	2.412	2.1	20.5	5 21	15 58.86	+ 5 52.9	4.835	5.761	4.4	21.4
5 31	15 49.25	-14 47.7	1.394	2.394	5.2	20.6	5 31	15 54.04	+ 5 57.0	4.856	5.761	5.0	21.5
6 10	15 39.72	-14 12.5	1.411	2.375	10.0	20.9	6 10	15 49.50	+ 5 51.6	4.903	5.761	5.9	21.5
6 20	15 32.16	-13 48.3	1.452	2.357	14.3	21.1	6 20	15 45.50	+ 5 36.9	4.974	5.760	6.9	21.6
6 30	15 27.33	-13 37.5	1.511	2.338	18.1	21.3	6 30	15 42.28	+ 5 13.4	5.067	5.760	7.9	21.7
<b>156302</b>	2001 <i>XA</i> <sub>18</sub>		5 22.6 149°72	1°5/23.3	17		<b>256869</b>	2008 <i>DF</i> <sub>11</sub>		5 22.6 242°44	0°5/22.8	17	
4 21	16 25.11	-25 26.4	2.174	3.032	11.7	20.0	4 21	16 25.31	-22 48.1	1.810	2.681	13.1	21.7
5 1	16 18.18	-25 29.7	2.107	3.041	8.5	19.8	5 1	16 18.83	-22 38.2	1.724	2.666	9.5	21.4
5 11	16 9.43	-25 25.2	2.064	3.050	5.0	19.6	5 11	16 10.04	-22 20.8	1.661	2.651	5.4	21.2
5 21	15 59.63	-25 12.7	2.049	3.058	1.8	19.4	5 21	15 59.77	-21 56.2	1.624	2.636	1.0	20.8
5 31	15 49.76	-24 53.7	2.062	3.065	3.4	19.5	5 31	15 49.13	-21 26.7	1.615	2.620	3.9	21.0
6 10	15 40.78	-24 31.0	2.104	3.072	6.9	19.8	6 10	15 39.34	-20 55.8	1.633	2.603	8.4	21.2
6 20	15 33.44	-24 8.0	2.171	3.078	10.2	20.0	6 20	15 31.40	-20 27.8	1.676	2.586	12.5	21.4
6 30	15 28.28	-23 48.0	2.261	3.084	13.0	20.2	6 30	15 26.02	-20 6.6	1.739	2.568	16.0	21.6
<b>96253</b>	1995 <i>BY</i> <sub>1</sub>		5 22.6 37°16	4°2/24.3	17	R	<b>273940</b>	2007 <i>JJ</i> <sub>22</sub>		5 22.6 15°69	7°6/21.2	17	
4 21	16 25.27	-30 42.9	1.332	2.204	16.8	18.9	4 21	16 22.34	- 3 4.4	1.240	2.129	16.6	19.4
5 1	16 19.32	-30 45.4	1.269	2.206	12.7	18.7	5 1	16 16.91	- 3 5.1	1.192	2.134	12.9	19.2
5 11	16 10.43	-30 30.3	1.227	2.209	8.3	18.4	5 11	16 8.98	- 3 22.2	1.165	2.141	9.3	19.0
5 21	15 59.78	-29 56.5	1.208	2.212	4.5	18.2	5 21	15 59.61	- 3 58.7	1.159	2.150	7.6	18.9
5 31	15 48.98	-29 6.5	1.214	2.215	5.5	18.3	5 31	15 50.15	- 4 55.4	1.178	2.159	9.2	19.0
6 10	15 39.63	-28 6.8	1.243	2.218	9.8	18.5	6 10	15 41.98	- 6 10.3	1.219	2.170	12.6	19.3
6 20	15 32.90	-27 5.5	1.295	2.222	14.1	18.8	6 20	15 36.07	- 7 39.2	1.282	2.182	16.2	19.5
6 30	15 29.47	-26 9.8	1.367	2.226	17.9	19.0	6 30	15 33.04	- 9 17.7	1.363	2.195	19.5	19.8
<b>204622</b>	2005 <i>MD</i> <sub>8</sub>		5 22.6 299°34	0°6/23.0	18		<b>138778</b>	2000 <i>ST</i> <sub>334</sub>		5 22.6 81°03	3°6/20.2	18	
4 21	16 16.69	-23 57.0	2.953	3.816	8.8	20.6	4 21	16 18.70	-12 16.6	2.185	3.064	10.8	19.6
5 1	16 11.93	-23 42.3	2.865	3.803	6.4	20.4	5 1	16 13.48	-11 17.0	2.125	3.069	7.9	19.4
5 11	16 5.92	-23 22.0	2.802	3.791	3.6	20.2	5 11	16 6.79	-10 18.1	2.089	3.075	5.0	19.3
5 21	15 59.16	-22 56.9	2.767	3.778	0.9	19.9	5 21	15 59.30	- 9 23.6	2.081	3.081	3.6	19.2
5 31	15 52.26	-22 28.7	2.761	3.765	2.5	20.1	5 31	15 51.79	- 8 37.3	2.101	3.087	5.3	19.3
6 10	15 45.87	-21 59.6	2.784	3.753	5.4	20.2	6 10	15 45.03	- 8 2.3	2.148	3.093	8.3	19.5
6 20	15 40.51	-21 31.8	2.833	3.740	8.1	20.4	6 20	15 39.64	- 7 40.3	2.219	3.099	11.1	19.7
6 30	15 36.62	-21 7.6	2.906	3.728	10.4	20.5	6 30	15 36.05	- 7 31.7	2.311	3.105	13.6	19.9
<b>213222</b>	2000 <i>VP</i> <sub>42</sub>		5 22.6 273°30	0°4/22.3	18		<b>261649</b>	2005 <i>YL</i> <sub>93</sub>		5 22.6 225°43	13°2/21.0	18	
4 21	16 19.93	-21 13.5	2.344	3.214	10.5	20.3	4 21	16 33.41	+ 7 51.8	1.200	2.047	19.9	20.0
5 1	16 14.52	-20 43.5	2.250	3.194	7.6	20.0	5 1	16 25.18	+ 8 7.6	1.139	2.042	16.9	19.8
5 11	16 7.46	-20 7.5	2.182	3.174	4.2	19.8	5 11	16 13.75	+ 7 53.5	1.097	2.036	14.3	19.7
5 21	15 59.38	-19 27.1	2.142	3.154	0.6	19.5	5 21	16 0.30	+ 7 2.5	1.077	2.030	13.2	19.6
5 31	15 51.07	-18 44.9	2.130	3.134	3.3	19.6	5 31	15 46.49	+ 5 32.3	1.079	2.024	14.4	19.6
6 10	15 43.37	-18 4.2	2.147	3.113	6.9	19.8	6 10	15 34.09	+ 3 27.3	1.104	2.017	17.2	19.7
6 20	15 36.99	-17 28.2	2.188	3.092	10.3	20.0	6 20	15 24.40	+ 0 56.7	1.150	2.009	20.6	19.9
6 30	15 32.47	-16 59.8	2.253	3.071	13.2	20.2	6 30	15 18.25	- 1 49.4	1.213	2.001	23.8	20.1
<b>479693</b>	2014 <i>DR</i> <sub>104</sub>		5 22.6 335°07	0°6/22.9	18		<b>424031</b>	2006 <i>YU</i> <sub>13</sub>		5 22.6 243°92	0°7/22.9	17	
4 21	16 19.95	-23 24.1	1.997	2.871	11.9	21.0	4 21	16 24.89	-23 5.9	1.893	2.761	12.7	22.3
5 1	16 14.68	-23 6.7	1.923	2.867	8.6	20.8	5 1	16 18.46	-22 58.2	1.805	2.746	9.2	22.1
5 11	16 7.58	-22 42.0	1.873	2.863	4.8	20.6	5 11	16 9.82	-22 43.1	1.741	2.731	5.3	21.8
5 21	15 59.39	-22 11.1	1.849	2.860	0.9	20.3	5 21	15 59.75	-22 20.9	1.704	2.715	1.1	21.5
5 31	15 51.06	-21 36.5	1.852	2.857	3.4	20.4	5 31	15 49.33	-21 53.6	1.694	2.699	3.7	21.7
6 10	15 43.56	-21 1.7	1.883	2.854	7.3	20.7	6 10	15 39.72	-21 24.5	1.712	2.681	8.1	21.9
6 20	15 37.64	-20 30.3	1.938	2.852	10.9	20.9	6 20	15 31.88	-20 57.6	1.754	2.664	12.0	22.1
6 30	15 33.86	-20 5.5	2.015	2.849	13.9	21.1	6 30	15 26.49	-20 36.7	1.818	2.646	15.5	22.3
<b>110442</b>	2001 <i>TQ</i> <sub>36</sub>		5 22.6 79°37	3°6/23.7	18		<b>35015</b>	1981 <i>EO</i> <sub>6</sub>		5 22.6 169°15	0°5/22.9	18	
4 21	16 27.58	-27 52.2	1.678	2.540	14.4	18.6	4 21	16 23.22	-24 0.7	2.194	3.057	11.4	20.0
5 1	16 20.50	-28 40.2	1.618	2.551	10.8	18.4	5 1	16 16.80	-23 31.2	2.122	3.061	8.2	19.8
5 11	16 10.93	-29 18.1	1.581	2.562	6.9	18.2	5 11	16 8.67	-22 53.8	2.075	3.064	4.6	19.6
5 21	15 59.86	-29 43.3	1.570	2.574	3.8	18.0	5 21	15 59.57	-22 9.8	2.056	3.067	0.9	19.3
5 31	15 48.60	-29 55.1	1.586	2.585	4.9	18.1	5 31	15 50.42	-21 22.0	2.065	3.069	3.2	19.5
6 10	15 38.50	-29 55.9	1.628	2.597	8.5	18.3	6 10	15 42.13	-20 34.4	2.103	3.071	6.9	19.8
6 20	15 30.60	-29 50.0	1.695	2.608	12.2	18.6	6 20	15 35.40	-19 50.7	2.167	3.072	10.3	20.0
6 30	15 25.56	-29 42.1	1.782	2.619	15.3	18.8	6 30	15 30.74	-19 14.3	2.253	3.073	13.1	20.2
<b>507021</b>	2008 <i>UU</i> <sub>72</sub>		5 22.6 211°52	2°4/23.7	18		<b>225863</b>	2001 <i>XF</i> <sub>205</sub>		5 22.6 256°55	1°0/22.9	18	
4 21	16 24.45	-28 8.8	2.473	3.320	10.8	22.2	4 21	16 24.38	-23 51.4	1.987	2.853	12.3	20.8
5 1	16 17.73	-28 23.0	2.386	3.313	8.1	22.0	5 1	16 18.08	-23 46.7	1.893	2.833	9.0	20.6
5 11	16 9.24	-28 28.7	2.325	3.305	5.1	21.8	5 11	16 9.62	-23 34.5	1.824	2.813	5.2	20.3
5 21	15 59.63	-28 25.2	2.292	3.297	2.6	21.6	5 21	15 59.74	-23 14.8	1.782	2.793	1.3	20.0
5 31	15 49.78	-28 13.0	2.288	3.288	3.5	21.6	5 31	15 49.47	-22 49.1	1.767	2.771	3.6	20.1
6 10	15 40.62	-27 54.2	2.312	3.278	6.5	21.8	6 10	15 39.93	-22 20.6	1.780	2.750	7.8	20.3
6 20	15 32.89	-27 32.0	2.363	3.268	9.5	22.0	6 20	15 32.06	-21 53.2	1.818	2.728	11.7	20.5
6 30	15 27.18	-27 10.1	2.437	3.257	12.2	22.1	6 30	15 26.55	-21 30.8	1.878	2.705	15.1	20.7
<b>465638</b>	2009 <i>KH</i> <sub>23</sub>		5 22.6 293°79	5°6/20.5	17		<b>338106</b>	20					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>374579</b>	2006 <i>CM</i> <sub>41</sub>		5 22.6 146°22	2.7/21.1	17		<b>104435</b>	2000 <i>FD</i> <sub>67</sub>		5 22.6 137°80	1.2/21.9	18	
4 21	16 21.80	-14 18.9	2.089	2.964	11.4	21.9	4 21	16 21.60	-17 59.7	2.315	3.186	10.6	20.9
5 1	16 15.76	-13 38.4	2.026	2.971	8.2	21.7	5 1	16 15.52	-17 36.1	2.252	3.196	7.5	20.7
5 11	16 8.09	-12 57.5	1.989	2.978	4.8	21.5	5 11	16 7.93	-17 9.8	2.214	3.205	4.2	20.5
5 21	15 59.51	-12 19.1	1.979	2.984	2.7	21.3	5 21	15 59.51	-16 42.6	2.203	3.214	1.2	20.3
5 31	15 50.89	-11 46.4	1.997	2.990	4.8	21.5	5 31	15 51.06	-16 16.9	2.222	3.222	3.5	20.5
6 10	15 43.11	-11 22.1	2.042	2.996	8.1	21.7	6 10	15 43.38	-15 55.1	2.268	3.230	6.9	20.7
6 20	15 36.84	-11 8.2	2.112	3.001	11.2	21.9	6 20	15 37.09	-15 39.3	2.340	3.238	9.9	20.9
6 30	15 32.55	-11 5.5	2.203	3.006	13.9	22.1	6 30	15 32.66	-15 31.2	2.435	3.245	12.5	21.1
<b>287966</b>	2003 <i>UQ</i> <sub>126</sub>		5 22.6 183°43	1.8/23.6	18		<b>47357</b>	1999 <i>XK</i> <sub>64</sub>		5 22.6 66°96	1.4/22.1	18	
4 21	16 22.56	-27 1.2	2.081	2.942	12.0	21.1	4 21	16 25.04	-16 49.6	1.497	2.382	14.5	19.0
5 1	16 16.52	-26 51.1	2.007	2.942	8.8	20.9	5 1	16 18.75	-16 54.0	1.434	2.384	10.4	18.7
5 11	16 8.61	-26 31.3	1.957	2.942	5.3	20.6	5 11	16 10.02	-16 57.4	1.394	2.387	5.8	18.5
5 21	15 59.59	-26 1.9	1.934	2.942	2.1	20.4	5 21	15 59.82	-17 1.0	1.379	2.390	1.6	18.2
5 31	15 50.45	-25 25.1	1.938	2.942	3.5	20.5	5 31	15 49.43	-17 6.2	1.390	2.393	4.7	18.4
6 10	15 42.19	-24 44.5	1.970	2.941	7.1	20.7	6 10	15 40.15	-17 15.3	1.427	2.396	9.4	18.7
6 20	15 35.58	-24 4.3	2.028	2.940	10.5	20.9	6 20	15 33.00	-17 29.9	1.486	2.399	13.6	18.9
6 30	15 31.16	-23 28.5	2.107	2.939	13.5	21.1	6 30	15 28.64	-17 51.6	1.565	2.402	17.1	19.2
<b>129252</b>	2005 <i>QW</i> <sub>49</sub>		5 22.6 223°23	2.6/20.9	18		<b>323758</b>	2005 <i>OR</i> <sub>18</sub>		5 22.6 329°17	3.8/23.9	17	
4 21	16 19.39	-12 14.5	2.764	3.633	9.2	20.8	4 21	16 20.99	-29 1.9	1.273	2.156	16.6	20.0
5 1	16 13.84	-11 51.0	2.683	3.624	6.6	20.6	5 1	16 16.59	-29 10.5	1.196	2.140	12.6	19.7
5 11	16 6.99	-11 28.7	2.629	3.615	4.1	20.5	5 11	16 9.17	-29 3.7	1.139	2.125	8.1	19.4
5 21	15 59.37	-11 9.3	2.602	3.605	2.6	20.3	5 21	15 59.74	-28 39.7	1.105	2.111	4.1	19.1
5 31	15 51.61	-10 54.8	2.605	3.595	4.1	20.4	5 31	15 49.80	-28 0.1	1.094	2.097	5.5	19.1
6 10	15 44.38	-10 46.9	2.636	3.584	6.7	20.6	6 10	15 41.05	-27 10.5	1.106	2.085	10.2	19.4
6 20	15 38.22	-10 46.8	2.692	3.573	9.4	20.7	6 20	15 34.81	-26 18.4	1.139	2.073	15.0	19.6
6 30	15 33.58	-10 54.9	2.772	3.562	11.7	20.9	6 30	15 31.94	-25 31.1	1.191	2.063	19.2	19.8
<b>317611</b>	2003 <i>AY</i> <sub>40</sub>		5 22.6 115°12	2.4/24.2	17		<b>205588</b>	2001 <i>TW</i> <sub>150</sub>		5 22.6 252°81	3.8/21.0	16	
4 21	16 22.45	-29 59.5	2.518	3.363	10.7	20.5	4 21	16 25.12	-13 20.0	1.575	2.457	14.1	21.2
5 1	16 16.07	-29 45.3	2.456	3.380	8.0	20.4	5 1	16 18.88	-12 41.1	1.493	2.440	10.3	21.0
5 11	16 8.19	-29 20.8	2.418	3.396	5.0	20.2	5 11	16 10.18	-12 1.7	1.434	2.423	6.3	20.7
5 21	15 59.52	-28 46.4	2.408	3.411	2.6	20.1	5 21	15 59.87	-11 25.5	1.400	2.405	3.8	20.5
5 31	15 50.89	-28 4.1	2.426	3.427	3.3	20.1	5 31	15 49.14	-10 56.9	1.392	2.386	6.3	20.6
6 10	15 43.10	-27 17.3	2.474	3.441	6.0	20.3	6 10	15 39.29	-10 39.7	1.410	2.367	10.7	20.8
6 20	15 36.77	-26 29.8	2.548	3.456	8.8	20.5	6 20	15 31.40	-10 36.5	1.451	2.347	14.9	21.0
6 30	15 32.33	-25 45.3	2.645	3.470	11.3	20.7	6 30	15 26.21	-10 48.2	1.510	2.326	18.6	21.2
<b>308075</b>	2004 <i>TF</i> <sub>240</sub>		5 22.6 210°35	1.4/23.0	17		<b>356354</b>	2010 <i>LV</i> <sub>90</sub>		5 22.6 240°49	2.1/23.9	18	
4 21	16 27.37	-23 31.1	1.578	2.451	14.6	20.7	4 21	16 20.53	-28 49.5	2.534	3.385	10.5	20.9
5 1	16 20.53	-23 47.1	1.505	2.448	10.6	20.4	5 1	16 14.89	-28 38.4	2.449	3.377	7.8	20.7
5 11	16 11.08	-23 55.7	1.454	2.444	6.1	20.1	5 11	16 7.66	-28 17.6	2.389	3.370	4.9	20.5
5 21	15 59.95	-23 56.1	1.429	2.439	1.7	19.8	5 21	15 59.50	-27 47.6	2.356	3.362	2.3	20.4
5 31	15 48.49	-23 49.1	1.430	2.435	4.3	20.0	5 31	15 51.20	-27 9.7	2.352	3.354	3.2	20.4
6 10	15 38.11	-23 37.9	1.458	2.430	9.0	20.3	6 10	15 43.57	-26 27.1	2.377	3.346	6.2	20.6
6 20	15 29.91	-23 26.4	1.509	2.424	13.3	20.5	6 20	15 37.29	-25 43.4	2.427	3.337	9.1	20.8
6 30	15 24.65	-23 18.7	1.580	2.418	16.9	20.7	6 30	15 32.85	-25 2.3	2.501	3.329	11.7	20.9
<b>317474</b>	2002 <i>RE</i> <sub>175</sub>		5 22.6 280°13	4.6/24.8	17		<b>519391</b>	2011 <i>SA</i> <sub>19</sub>		5 22.6 118°83	0.9/22.0	17	
4 21	16 23.58	-33 28.5	2.002	2.846	13.1	20.8	4 21	16 20.10	-20 3.8	2.159	3.034	11.1	21.7
5 1	16 17.63	-33 43.0	1.912	2.830	10.3	20.6	5 1	16 14.59	-19 24.5	2.091	3.037	7.9	21.5
5 11	16 9.42	-33 43.4	1.845	2.814	7.2	20.4	5 11	16 7.48	-18 40.1	2.048	3.040	4.3	21.3
5 21	15 59.73	-33 27.9	1.803	2.798	4.8	20.2	5 21	15 59.47	-17 53.1	2.032	3.043	1.0	21.0
5 31	15 49.69	-32 56.7	1.788	2.781	5.2	20.2	5 31	15 51.41	-17 6.5	2.045	3.047	3.6	21.2
6 10	15 40.48	-32 13.2	1.800	2.765	8.1	20.4	6 10	15 44.15	-16 24.2	2.085	3.050	7.2	21.4
6 20	15 33.10	-31 22.7	1.836	2.749	11.4	20.5	6 20	15 38.35	-15 49.0	2.150	3.053	10.4	21.6
6 30	15 28.24	-30 31.1	1.893	2.732	14.5	20.7	6 30	15 34.48	-15 23.3	2.237	3.056	13.2	21.8
<b>241524</b>	2009 <i>HR</i> <sub>24</sub>		5 22.6 329°12	3.4/20.9	17		<b>90219</b>	2003 <i>BC</i> <sub>2</sub>		5 22.6 57°38	2.4/21.4	17	
4 21	16 19.72	-11 6.1	2.146	3.023	11.1	20.3	4 21	16 19.98	-14 49.7	2.035	2.915	11.5	19.4
5 1	16 14.32	-10 42.2	2.078	3.022	8.1	20.2	5 1	16 14.56	-14 21.8	1.972	2.920	8.2	19.2
5 11	16 7.34	-10 20.9	2.035	3.021	5.1	20.0	5 11	16 7.49	-13 53.7	1.934	2.925	4.7	19.0
5 21	15 59.43	-10 4.7	2.018	3.019	3.4	19.9	5 21	15 59.49	-13 27.8	1.923	2.930	2.4	18.8
5 31	15 51.40	-9 55.9	2.029	3.018	5.1	20.0	5 31	15 51.42	-13 6.6	1.939	2.936	4.5	19.0
6 10	15 44.09	-9 56.5	2.067	3.017	8.2	20.1	6 10	15 44.17	-12 52.8	1.982	2.941	7.9	19.2
6 20	15 38.17	-10 7.0	2.129	3.016	11.2	20.3	6 20	15 38.40	-12 47.8	2.049	2.947	11.1	19.4
6 30	15 34.12	-10 27.7	2.212	3.016	13.9	20.5	6 30	15 34.61	-12 52.6	2.138	2.952	13.9	19.6
<b>415043</b>	2011 <i>YC</i> <sub>59</sub>		5 22.6 161°06	3.8/24.4	17		<b>471885</b>	2013 <i>AD</i> <sub>115</sub>		5 22.6 152°60	3.5/20.5	18	
4 21	16 26.72	-31 6.9	1.622	2.479	15.0	21.5	4 21	16 19.50	- 9 24.7	2.591	3.460	9.7	21.7
5 1	16 19.99	-31 5.5	1.553	2.482	11.4	21.2	5 1	16 13.90	- 8 53.9	2.527	3.465	7.1	21.5
5 11	16 10.70	-30 48.2	1.507	2.485	7.4	21.0	5 11	16 7.02	- 8 26.3	2.490	3.471	4.7	21.4
5 21	15 59.90	-30 14.2	1.485	2.488	4.1	20.8	5 21	15 59.42	- 8 4.2	2.480	3.476	3.5	21.3
5 31	15 48.96	-29 25.6	1.490	2.490	5.0	20.9	5 31	15 51.78	- 7 49.8	2.499	3.480	4.9	21.4
6 10	15 39.29	-28 27.8	1.521	2.492	8.7	21.1	6 10	15 44.76	- 7 44.6	2.545	3.485	7.4	21.6
6 20	15 31.90	-27 27.7	1.575	2.493	12.6	21.3	6 20	15 38.91	- 7 49.2	2.616	3.489	9.9	21.7
6 30	15 27.43	-26 31.9	1.651	2.494	16.1	21.5	6 30	15 34.64	- 8 3.7	2.710	3.493	12.1	21.9
<b>412156</b>	2013 <i>GP</i> <sub>79</sub>		5 22.6 12°88	4.5/20.8	17		<b>235564</b>	2004					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>384055</b>	2008 <i>UZ</i> <sub>271</sub>		5 22.6 203°18	1°1/23.2	18		<b>340262</b>	2006 <i>BH</i> <sub>156</sub>		5 22.6 47°59	3°5/25.8	18	
4 21	16 23.32	-24 28.4	2.396	3.254	10.7	22.1	4 21	16 16.50	-37 57.9	4.175	4.979	7.6	19.9
5 1	16 16.92	-24 27.1	2.314	3.250	7.8	21.9	5 1	16 11.63	-38 12.2	4.097	4.983	6.1	19.8
5 11	16 8.82	-24 19.0	2.258	3.245	4.5	21.7	5 11	16 5.75	-38 17.7	4.044	4.987	4.6	19.7
5 21	15 59.69	-24 4.5	2.229	3.239	1.3	21.5	5 21	15 59.28	-38 14.0	4.019	4.990	3.6	19.7
5 31	15 50.38	-23 44.7	2.230	3.233	3.1	21.6	5 31	15 52.74	-38 1.3	4.021	4.994	3.6	19.7
6 10	15 41.77	-23 22.2	2.259	3.227	6.5	21.8	6 10	15 46.64	-37 41.0	4.052	4.998	4.7	19.7
6 20	15 34.59	-22 59.9	2.314	3.220	9.7	22.0	6 20	15 41.39	-37 15.0	4.109	5.002	6.1	19.8
6 30	15 29.36	-22 40.9	2.392	3.212	12.4	22.2	6 30	15 37.36	-36 45.7	4.191	5.006	7.6	20.0
<b>170435</b>	2003 <i>UR</i> <sub>118</sub>		5 22.6 50°51	1°1/22.1	17		<b>156949</b>	2003 <i>GX</i> <sub>28</sub>		5 22.6 53°66	3°9/20.9	17	
4 21	16 23.01	-20 44.1	1.351	2.241	15.4	19.9	4 21	16 22.00	-12 35.5	1.549	2.436	13.9	19.9
5 1	16 17.38	-19 58.1	1.294	2.247	11.0	19.6	5 1	16 16.35	-11 59.3	1.496	2.445	10.1	19.7
5 11	16 9.27	-19 4.0	1.259	2.253	6.0	19.3	5 11	16 8.60	-11 25.0	1.465	2.455	6.1	19.5
5 21	15 59.75	-18 5.4	1.248	2.260	1.3	19.0	5 21	15 59.69	-10 56.5	1.460	2.464	3.9	19.3
5 31	15 50.19	-17 7.9	1.263	2.266	4.9	19.3	5 31	15 50.74	-10 37.3	1.480	2.474	6.1	19.5
6 10	15 41.95	-16 17.4	1.302	2.273	9.9	19.6	6 10	15 42.90	-10 30.1	1.526	2.483	9.9	19.7
6 20	15 35.99	-15 38.7	1.363	2.280	14.3	19.9	6 20	15 36.99	-10 36.0	1.594	2.493	13.6	20.0
6 30	15 32.89	-15 14.7	1.444	2.287	18.0	20.1	6 30	15 33.54	-10 54.9	1.681	2.504	16.8	20.2
<b>46707</b>	1997 <i>FH</i> <sub>3</sub>		5 22.6 124°56	4°1/20.6	17		<b>40095</b>	1998 <i>OV</i> <sub>4</sub>		5 22.6 268°48	4°4/20.3	18	
4 21	16 22.72	-12 56.2	1.597	2.483	13.7	19.8	4 21	16 21.07	-9 47.5	2.003	2.879	11.8	18.8
5 1	16 16.82	-11 57.6	1.539	2.487	10.0	19.6	5 1	16 15.52	-9 7.2	1.921	2.863	8.7	18.6
5 11	16 8.85	-10 59.4	1.503	2.492	6.2	19.3	5 11	16 8.16	-8 29.6	1.863	2.845	5.8	18.4
5 21	15 59.69	-10 6.2	1.494	2.496	4.1	19.2	5 21	15 59.64	-7 58.2	1.831	2.828	4.4	18.3
5 31	15 50.49	-9 23.0	1.510	2.501	6.4	19.4	5 31	15 50.86	-7 36.4	1.827	2.810	6.2	18.3
6 10	15 42.35	-8 53.8	1.552	2.505	10.2	19.6	6 10	15 42.75	-7 26.9	1.848	2.792	9.4	18.5
6 20	15 36.12	-8 40.4	1.617	2.509	13.9	19.8	6 20	15 36.11	-7 31.0	1.894	2.774	12.7	18.7
6 30	15 32.34	-8 43.0	1.701	2.512	17.0	20.1	6 30	15 31.52	-7 48.8	1.960	2.756	15.6	18.8
<b>377754</b>	2005 <i>YQ</i> <sub>16</sub>		5 22.6 227°73	0°1/22.6	18		<b>327694</b>	2006 <i>RS</i> <sub>105</sub>		5 22.6 117°78	1°2/23.1	17	
4 21	16 23.67	-21 53.9	2.257	3.121	11.1	22.2	4 21	16 25.85	-24 21.1	1.726	2.596	13.7	21.7
5 1	16 17.27	-21 37.5	2.168	3.108	8.0	22.0	5 1	16 19.05	-24 15.6	1.667	2.608	9.9	21.5
5 11	16 9.06	-21 15.2	2.105	3.095	4.5	21.8	5 11	16 10.09	-24 1.4	1.630	2.620	5.7	21.3
5 21	15 59.74	-20 47.9	2.070	3.082	0.6	21.4	5 21	15 59.90	-23 39.0	1.620	2.631	1.5	21.0
5 31	15 50.17	-20 17.4	2.063	3.067	3.3	21.6	5 31	15 49.67	-23 10.7	1.638	2.642	3.8	21.2
6 10	15 41.30	-19 47.1	2.085	3.052	7.1	21.8	6 10	15 40.59	-22 40.4	1.681	2.653	8.0	21.5
6 20	15 33.89	-19 19.8	2.133	3.036	10.5	22.0	6 20	15 33.53	-22 12.4	1.750	2.663	11.8	21.8
6 30	15 28.52	-18 58.7	2.204	3.020	13.5	22.2	6 30	15 29.04	-21 50.4	1.839	2.673	15.1	22.0
<b>308613</b>	2005 <i>WE</i> <sub>105</sub>		5 22.6 203°31	2°8/21.2	18		<b>338611</b>	2003 <i>SV</i> <sub>202</sub>		5 22.6 249°23	3°8/24.3	17	
4 21	16 22.28	-9 5.4	3.003	3.861	8.8	21.7	4 21	16 24.90	-31 31.4	2.155	2.999	12.3	21.9
5 1	16 15.81	-9 11.7	2.923	3.856	6.5	21.6	5 1	16 18.46	-31 51.5	2.065	2.985	9.5	21.7
5 11	16 8.09	-9 21.9	2.870	3.851	4.1	21.4	5 11	16 9.87	-32 0.0	1.998	2.971	6.4	21.5
5 21	15 59.60	-9 36.9	2.846	3.846	2.8	21.3	5 21	15 59.90	-31 55.2	1.958	2.956	4.0	21.3
5 31	15 50.97	-9 57.4	2.853	3.840	4.1	21.4	5 31	15 49.57	-31 37.3	1.946	2.941	4.6	21.3
6 10	15 42.84	-10 23.9	2.889	3.833	6.4	21.5	6 10	15 40.00	-31 8.8	1.961	2.926	7.6	21.4
6 20	15 35.74	-10 56.3	2.953	3.827	8.9	21.7	6 20	15 32.11	-30 34.0	2.001	2.910	10.8	21.6
6 30	15 30.09	-11 34.5	3.040	3.819	11.0	21.8	6 30	15 26.60	-29 58.0	2.064	2.894	13.8	21.8
<b>248636</b>	2006 <i>FQ</i> <sub>53</sub>		5 22.6 337°37	1°8/21.9	17		<b>471189</b>	2010 <i>NZ</i> <sub>13</sub>		5 22.6 344°42	14°3/26.3	16	
4 21	16 19.03	-18 58.8	1.062	1.970	17.1	20.3	4 21	16 34.07	-54 13.8	1.865	2.601	17.9	20.2
5 1	16 15.28	-18 26.2	0.995	1.957	12.4	20.0	5 1	16 27.09	-56 25.2	1.794	2.592	16.4	20.0
5 11	16 8.48	-17 46.5	0.948	1.945	6.9	19.6	5 11	16 15.69	-58 12.5	1.743	2.584	15.2	19.9
5 21	15 59.70	-17 3.3	0.922	1.933	1.9	19.3	5 21	16 0.81	-59 26.2	1.712	2.576	14.4	19.8
5 31	15 50.48	-16 22.0	0.919	1.923	5.9	19.5	5 31	15 44.47	-59 59.8	1.701	2.570	14.4	19.8
6 10	15 42.54	-15 49.7	0.937	1.914	11.7	19.8	6 10	15 29.29	-59 54.0	1.711	2.564	15.1	19.8
6 20	15 37.17	-15 30.6	0.974	1.907	17.0	20.0	6 20	15 17.55	-59 15.5	1.739	2.559	16.4	19.9
6 30	15 35.21	-15 27.6	1.028	1.901	21.5	20.3	6 30	15 10.65	-58 15.0	1.784	2.554	17.9	20.0
<b>261310</b>	2005 <i>UM</i> <sub>200</sub>		5 22.6 274°10	0°7/22.2	18		<b>309767</b>	2008 <i>YU</i> <sub>64</sub>		5 22.6 229°11	4°6/20.6	16	
4 21	16 19.38	-19 27.5	2.320	3.193	10.5	21.2	4 21	16 25.76	-10 15.2	1.772	2.646	13.2	22.3
5 1	16 14.08	-19 7.0	2.245	3.190	7.5	21.0	5 1	16 19.08	-9 34.7	1.692	2.634	9.8	22.1
5 11	16 7.24	-18 42.7	2.194	3.186	4.1	20.8	5 11	16 10.22	-8 56.8	1.636	2.620	6.4	21.8
5 21	15 59.49	-18 16.3	2.171	3.182	0.8	20.5	5 21	15 59.96	-8 25.1	1.607	2.606	4.6	21.7
5 31	15 51.61	-17 49.9	2.176	3.179	3.3	20.7	5 31	15 49.39	-8 3.7	1.605	2.590	6.7	21.8
6 10	15 44.42	-17 26.2	2.209	3.175	6.8	20.9	6 10	15 39.66	-7 55.4	1.629	2.574	10.3	22.0
6 20	15 38.55	-17 7.5	2.267	3.171	9.9	21.1	6 20	15 31.68	-8 1.6	1.676	2.557	14.0	22.2
6 30	15 34.49	-16 55.9	2.348	3.168	12.7	21.3	6 30	15 26.14	-8 22.4	1.743	2.540	17.3	22.3
<b>214477</b>	2005 <i>TX</i> <sub>44</sub>		5 22.6 300°47	2°9/23.1	18		<b>124053</b>	2001 <i>FM</i> <sub>153</sub>		5 22.6 321°28	1°6/22.9	18	
4 21	16 28.18	-25 12.4	2.082	2.937	12.3	19.8	4 21	16 23.10	-22 4.6	1.448	2.333	14.9	18.5
5 1	16 21.10	-26 22.2	1.978	2.910	9.2	19.5	5 1	16 18.17	-22 44.2	1.345	2.294	11.0	18.1
5 11	16 11.53	-27 29.3	1.900	2.882	5.8	19.3	5 11	16 10.25	-23 21.6	1.264	2.256	6.5	17.8
5 21	16 0.15	-28 30.2	1.850	2.855	3.0	19.0	5 21	16 0.03	-23 54.9	1.207	2.218	1.9	17.4
5 31	15 47.96	-29 22.0	1.829	2.827	4.4	19.1	5 31	15 48.75	-24 22.9	1.175	2.180	4.8	17.5
6 10	15 36.22	-30 4.0	1.836	2.800	8.1	19.2	6 10	15 38.00	-24 46.1	1.167	2.143	10.2	17.6
6 20	15 26.04	-30 37.5	1.870	2.773	11.8	19.4	6 20	15 29.27	-25 6.8	1.181	2.107	15.3	17.8
6 30	15 18.34	-31 5.8	1.926	2.745	15.0	19.6	6 30	15 23.73	-25 28.8	1.214	2.072	19.8	18.0
<b>504957</b>	2011 <i>FK</i> <sub>61</sub>		5 22.6 284°41	2°9/23.8	17		<b>485452</b>	2011 <i>QJ</i> <sub>9</sub>					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>488488</b>	1999 VA <sub>139</sub>		5 22.6 218°94	1.3°/22.1	17		<b>489323</b>	2006 TJ <sub>15</sub>		5 22.6 256°37	0.1°/22.6	17	
4 21	16 24.65	-18 14.0	1.737	2.614	13.2	22.3	4 21	16 24.86	-21 56.4	1.797	2.669	13.1	22.4
5 1	16 18.32	-17 58.0	1.662	2.609	9.5	22.0	5 1	16 18.62	-21 38.4	1.706	2.650	9.5	22.1
5 11	16 9.79	-17 38.6	1.611	2.603	5.3	21.7	5 11	16 10.06	-21 12.9	1.639	2.631	5.3	21.8
5 21	15 59.91	-17 17.3	1.586	2.597	1.3	21.5	5 21	15 59.99	-20 40.9	1.599	2.611	0.8	21.4
5 31	15 49.78	-16 56.8	1.589	2.591	4.4	21.7	5 31	15 49.50	-20 4.9	1.586	2.590	4.0	21.6
6 10	15 40.57	-16 40.3	1.617	2.584	8.7	21.9	6 10	15 39.83	-19 29.1	1.600	2.569	8.5	21.9
6 20	15 33.22	-16 30.6	1.670	2.577	12.7	22.1	6 20	15 31.96	-18 57.7	1.638	2.547	12.7	22.1
6 30	15 28.38	-16 29.9	1.744	2.569	16.1	22.3	6 30	15 26.64	-18 34.5	1.697	2.525	16.4	22.2
<b>106600</b>	2000 WX <sub>113</sub>		5 22.6 223°98	0.2°/22.7	18		<b>69615</b>	1998 FF <sub>49</sub>		5 22.6 87°86	1°5°/23.2	18	
4 21	16 21.97	-20 29.8	2.611	3.474	9.8	20.5	4 21	16 27.06	-24 58.4	1.470	2.345	15.3	19.7
5 1	16 15.88	-20 42.1	2.527	3.467	7.0	20.3	5 1	16 20.14	-24 52.0	1.420	2.363	11.1	19.5
5 11	16 8.26	-20 51.6	2.470	3.460	3.9	20.1	5 11	16 10.76	-24 35.2	1.392	2.382	6.4	19.3
5 21	15 59.70	-20 58.2	2.441	3.453	0.6	19.8	5 21	16 0.05	-24 8.6	1.389	2.400	1.9	19.0
5 31	15 50.92	-21 2.7	2.442	3.445	2.8	20.0	5 31	15 49.41	-23 35.1	1.412	2.417	4.2	19.2
6 10	15 42.73	-21 6.4	2.471	3.437	6.1	20.2	6 10	15 40.19	-22 59.6	1.461	2.435	8.8	19.6
6 20	15 35.75	-21 10.9	2.526	3.429	9.1	20.4	6 20	15 33.32	-22 27.2	1.534	2.452	12.9	19.8
6 30	15 30.51	-21 18.0	2.606	3.421	11.7	20.6	6 30	15 29.34	-22 1.9	1.626	2.469	16.3	20.1
<b>308455</b>	2005 SO <sub>270</sub>		5 22.6 254°81	4.1°/19.9	18		<b>273811</b>	2007 FQ <sub>32</sub>		5 22.6 31°35	1°4°/21.9	17	
4 21	16 18.82	-8 48.3	2.403	3.275	10.2	20.9	4 21	16 22.07	-18 15.8	1.668	2.551	13.3	20.7
5 1	16 13.63	-8 5.2	2.326	3.265	7.6	20.7	5 1	16 16.45	-17 50.6	1.603	2.553	9.5	20.5
5 11	16 7.00	-7 25.2	2.275	3.255	5.2	20.6	5 11	16 8.73	-17 21.8	1.561	2.554	5.3	20.2
5 21	15 59.52	-6 51.2	2.251	3.244	4.2	20.5	5 21	15 59.78	-16 51.6	1.545	2.556	1.5	20.0
5 31	15 51.89	-6 26.4	2.255	3.234	5.6	20.6	5 31	15 50.70	-16 23.2	1.556	2.558	4.4	20.2
6 10	15 44.85	-6 12.8	2.286	3.223	8.3	20.7	6 10	15 42.62	-16 0.3	1.593	2.560	8.7	20.4
6 20	15 39.02	-6 11.4	2.341	3.212	11.0	20.9	6 20	15 36.40	-15 45.7	1.652	2.562	12.6	20.7
6 30	15 34.86	-6 22.3	2.418	3.201	13.4	21.0	6 30	15 32.61	-15 41.4	1.733	2.565	15.9	20.9
<b>32327</b>	2000 QA <sub>63</sub>		5 22.6 204°71	2°2°/21.4	18		<b>299445</b>	2006 BA <sub>18</sub>		5 22.6 168°18	3°5°/21.3	18	
4 21	16 20.38	-13 35.7	2.597	3.466	9.6	19.4	4 21	16 26.91	-12 21.5	1.703	2.578	13.5	21.2
5 1	16 14.65	-13 20.9	2.521	3.462	6.9	19.2	5 1	16 19.80	-11 57.7	1.639	2.583	9.8	21.0
5 11	16 7.53	-13 6.9	2.470	3.458	4.1	19.0	5 11	16 10.55	-11 36.0	1.599	2.587	6.0	20.8
5 21	15 59.59	-12 55.1	2.448	3.454	2.2	18.9	5 21	16 0.04	-11 19.0	1.586	2.590	3.5	20.6
5 31	15 51.53	-12 47.3	2.455	3.450	3.9	19.0	5 31	15 49.40	-11 9.6	1.600	2.593	5.8	20.7
6 10	15 44.05	-12 45.1	2.490	3.445	6.8	19.2	6 10	15 39.80	-11 10.0	1.640	2.595	9.6	21.0
6 20	15 37.74	-12 49.5	2.551	3.439	9.6	19.3	6 20	15 32.13	-11 21.3	1.704	2.596	13.3	21.2
6 30	15 33.06	-13 1.3	2.635	3.434	12.0	19.5	6 30	15 26.96	-11 43.8	1.789	2.596	16.5	21.4
<b>145465</b>	2005 SS <sub>134</sub>		5 22.6 283°62	0°3°/22.8	18		<b>300262</b>	2007 HQ <sub>31</sub>		5 22.6 3°75	2°6°/23.3	16	
4 21	16 20.58	-22 0.9	2.235	3.105	11.0	20.0	4 21	16 24.41	-24 59.4	1.081	1.976	18.0	20.9
5 1	16 15.13	-21 56.0	2.149	3.091	7.9	19.8	5 1	16 19.23	-25 22.3	1.022	1.975	13.3	20.6
5 11	16 7.95	-21 45.9	2.086	3.077	4.4	19.5	5 11	16 10.72	-25 34.4	0.983	1.975	7.9	20.3
5 21	15 59.67	-21 31.2	2.051	3.063	0.8	19.2	5 21	16 0.09	-25 34.0	0.965	1.975	2.9	20.0
5 31	15 51.14	-21 13.5	2.044	3.049	3.2	19.4	5 31	15 49.12	-25 22.3	0.971	1.976	5.4	20.2
6 10	15 43.25	-20 55.3	2.065	3.035	6.9	19.6	6 10	15 39.67	-25 3.8	0.998	1.978	10.8	20.5
6 20	15 36.76	-20 39.3	2.111	3.020	10.3	19.8	6 20	15 33.11	-24 44.8	1.046	1.981	15.9	20.7
6 30	15 32.24	-20 28.0	2.179	3.006	13.3	20.0	6 30	15 30.24	-24 30.8	1.112	1.984	20.2	21.0
<b>169412</b>	2001 XH <sub>172</sub>		5 22.6 167°50	1°2°/23.2	18		<b>510764</b>	2013 AY <sub>4</sub>		5 22.6 174°72	0°7°/22.2	17	
4 21	16 26.74	-25 28.5	1.690	2.557	14.0	20.5	4 21	16 20.53	-19 14.3	2.689	3.555	9.5	23.0
5 1	16 19.82	-25 5.1	1.621	2.561	10.2	20.2	5 1	16 14.71	-18 56.7	2.616	3.557	6.7	22.8
5 11	16 10.60	-24 30.5	1.576	2.565	5.9	20.0	5 11	16 7.55	-18 36.0	2.568	3.559	3.7	22.7
5 21	16 0.03	-23 45.9	1.557	2.568	1.6	19.7	5 21	15 59.62	-18 13.4	2.549	3.560	0.8	22.4
5 31	15 49.38	-22 54.4	1.565	2.570	3.9	19.9	5 31	15 51.60	-17 50.8	2.559	3.561	2.9	22.6
6 10	15 39.87	-22 1.5	1.601	2.572	8.4	20.2	6 10	15 44.20	-17 30.3	2.598	3.562	6.0	22.8
6 20	15 32.46	-21 12.4	1.660	2.573	12.4	20.4	6 20	15 38.00	-17 14.0	2.664	3.562	8.8	23.0
6 30	15 27.74	-20 31.9	1.741	2.573	15.8	20.6	6 30	15 33.41	-17 3.5	2.753	3.562	11.3	23.2
<b>119831</b>	2002 BM <sub>28</sub>		5 22.6 40°26	0°2°/22.7	18		<b>48587</b>	1994 PO <sub>39</sub>		5 22.6 236°60	1°2°/23.1	18	
4 21	16 23.57	-19 36.5	2.138	3.007	11.4	19.4	4 21	16 24.96	-24 35.2	1.868	2.734	12.9	20.5
5 1	16 17.24	-20 5.9	2.067	3.010	8.2	19.2	5 1	16 18.58	-24 26.9	1.784	2.723	9.5	20.3
5 11	16 9.09	-20 33.3	2.022	3.012	4.6	19.0	5 11	16 9.99	-24 9.8	1.723	2.712	5.5	20.0
5 21	15 59.83	-20 58.2	2.004	3.015	0.7	18.7	5 21	15 59.98	-23 44.1	1.689	2.700	1.5	19.7
5 31	15 50.37	-21 20.5	2.014	3.018	3.3	18.9	5 31	15 49.67	-23 11.8	1.682	2.687	3.7	19.8
6 10	15 41.66	-21 41.3	2.053	3.021	7.0	19.2	6 10	15 40.22	-22 36.6	1.703	2.674	8.0	20.1
6 20	15 34.48	-22 1.8	2.117	3.025	10.4	19.4	6 20	15 32.59	-22 2.9	1.748	2.660	11.9	20.3
6 30	15 29.40	-22 23.9	2.203	3.028	13.2	19.6	6 30	15 27.45	-21 34.9	1.815	2.646	15.4	20.5
<b>334774</b>	2003 SY <sub>102</sub>		5 22.6 221°62	1°9°/23.8	18		<b>428063</b>	2006 EU <sub>53</sub>		5 22.6 24°56	3°1°/23.9	17	
4 21	16 23.32	-28 11.3	2.530	3.378	10.6	22.1	4 21	16 22.77	-28 39.4	1.595	2.465	14.6	20.5
5 1	16 16.93	-27 58.9	2.439	3.367	7.9	21.9	5 1	16 17.19	-28 45.7	1.532	2.470	10.9	20.3
5 11	16 8.87	-27 36.9	2.374	3.356	4.8	21.7	5 11	16 9.23	-28 39.3	1.490	2.474	6.8	20.0
5 21	15 59.80	-27 5.5	2.337	3.344	2.2	21.5	5 21	15 59.87	-28 19.6	1.474	2.479	3.4	19.8
5 31	15 50.54	-26 26.3	2.329	3.331	3.2	21.6	5 31	15 50.37	-27 48.5	1.482	2.485	4.5	19.9
6 10	15 41.96	-25 42.3	2.350	3.318	6.3	21.7	6 10	15 42.02	-27 10.5	1.517	2.491	8.4	20.2
6 20	15 34.77	-24 57.3	2.397	3.304	9.4	21.9	6 20	15 35.78	-26 30.9	1.574	2.497	12.3	20.4
6 30	15 29.50	-24 15.2	2.469	3.289	12.1	22.1	6 30	15 32.28	-25 55.0	1.652	2.504	15.7	20.6
<b>367073</b>	2006 PZ <sub>19</sub>		5 22.6 266°45	5°9°/19.7	18		<b>106000</b>	2000 SJ <sub>283</sub>		5 22.6 54°10	3°9°/25.0	18	
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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>26745</b>	2001 <i>HV</i> <sub>45</sub>		5 22.6 313°27	2°4/21.8	18		<b>485415</b>	2011 <i>OF</i> <sub>60</sub>		5 22.6 98°91	2°7/20.0	18	
4 21	16 22.34	-14 7.1	1.729	2.612	13.0	18.0	4 21	16 13.20	-6 17.5	4.480	5.340	6.1	21.5
5 1	16 16.74	-14 10.1	1.651	2.600	9.4	17.8	5 1	16 9.10	-6 1.2	4.419	5.349	4.6	21.4
5 11	16 8.99	-14 15.0	1.597	2.588	5.5	17.5	5 11	16 4.33	-5 48.2	4.386	5.357	3.3	21.3
5 21	15 59.86	-14 23.1	1.568	2.577	2.4	17.3	5 21	15 59.19	-5 39.7	4.381	5.366	2.7	21.2
5 31	15 50.39	-14 36.0	1.566	2.566	4.8	17.4	5 31	15 54.03	-5 36.6	4.405	5.375	3.5	21.3
6 10	15 41.71	-14 55.2	1.590	2.555	9.0	17.6	6 10	15 49.19	-5 39.7	4.457	5.383	4.9	21.4
6 20	15 34.78	-15 21.4	1.637	2.544	12.9	17.9	6 20	15 44.96	-5 49.1	4.536	5.392	6.3	21.5
6 30	15 30.25	-15 55.3	1.705	2.534	16.3	18.1	6 30	15 41.59	-6 4.7	4.638	5.401	7.7	21.6
<b>272365</b>	2005 <i>SF</i> <sub>200</sub>		5 22.6 74°86	0°4/22.4	17		<b>28272</b>	Mikejanner		5 22.6 297°36	2°9/21.8	18	
4 21	16 23.70	-20 30.2	1.606	2.487	13.9	20.9	4 21	16 24.71	-14 20.9	1.281	2.173	15.9	17.6
5 1	16 17.64	-20 16.1	1.548	2.496	9.9	20.7	5 1	16 19.20	-14 17.3	1.200	2.154	11.6	17.3
5 11	16 9.39	-19 56.6	1.512	2.505	5.5	20.4	5 11	16 10.71	-14 15.6	1.141	2.134	6.8	16.9
5 21	15 59.89	-19 33.1	1.503	2.515	0.8	20.1	5 21	16 0.15	-14 17.8	1.106	2.115	3.0	16.6
5 31	15 50.34	-19 8.6	1.520	2.524	4.1	20.4	5 31	15 48.94	-14 26.5	1.094	2.095	6.1	16.8
6 10	15 41.92	-18 46.6	1.563	2.534	8.5	20.7	6 10	15 38.68	-14 44.1	1.107	2.076	11.4	17.0
6 20	15 35.50	-18 30.4	1.629	2.543	12.5	20.9	6 20	15 30.73	-15 12.0	1.140	2.058	16.4	17.2
6 30	15 31.65	-18 22.6	1.716	2.553	15.9	21.2	6 30	15 26.03	-15 51.0	1.192	2.039	20.8	17.5
<b>115809</b>	2003 <i>UR</i> <sub>239</sub>		5 22.6 166°13	1°0/23.0	18		<b>109420</b>	2001 <i>QT</i> <sub>192</sub>		5 22.6 134°74	7°5/26.9	17	
4 21	16 23.52	-23 18.5	2.042	2.909	12.0	19.7	4 21	16 29.22	-42 13.5	1.936	2.740	15.1	19.8
5 1	16 17.28	-23 24.6	1.970	2.911	8.7	19.5	5 1	16 21.77	-42 35.0	1.868	2.748	12.4	19.6
5 11	16 9.15	-23 24.5	1.923	2.912	5.0	19.3	5 11	16 11.75	-42 34.9	1.822	2.756	9.8	19.4
5 21	15 59.87	-23 18.3	1.903	2.913	1.3	19.0	5 21	16 0.25	-42 10.2	1.800	2.764	7.9	19.3
5 31	15 50.42	-23 7.2	1.910	2.915	3.4	19.2	5 31	15 48.69	-41 21.1	1.803	2.771	7.7	19.3
6 10	15 41.82	-22 53.8	1.945	2.916	7.2	19.4	6 10	15 38.46	-40 12.7	1.832	2.778	9.4	19.5
6 20	15 34.86	-22 41.0	2.006	2.916	10.7	19.6	6 20	15 30.60	-38 52.5	1.886	2.785	11.8	19.6
6 30	15 30.11	-22 31.7	2.088	2.917	13.7	19.8	6 30	15 25.70	-37 28.8	1.961	2.791	14.4	19.8
<b>426344</b>	2013 <i>GZ</i> <sub>94</sub>		5 22.6 332°09	2°8/21.3	17		<b>250733</b>	2005 <i>SR</i> <sub>65</sub>		5 22.6 353°33	1°2/21.9	17	
4 21	16 19.19	-18 55.6	1.093	2.000	16.9	20.1	4 21	16 19.06	-19 40.3	2.015	2.894	11.6	19.5
5 1	16 15.31	-17 46.8	1.025	1.986	12.2	19.8	5 1	16 14.03	-18 54.2	1.944	2.893	8.2	19.3
5 11	16 8.49	-17 27.8	0.978	1.974	6.9	19.4	5 11	16 7.32	-18 2.7	1.899	2.891	4.5	19.1
5 21	15 59.80	-15 4.5	0.953	1.963	2.8	19.2	5 21	15 59.63	-17 8.7	1.879	2.890	1.2	18.9
5 31	15 50.75	-13 45.5	0.951	1.952	6.6	19.3	5 31	15 51.85	-16 15.9	1.888	2.889	3.9	19.0
6 10	15 42.99	-12 39.7	0.970	1.943	12.2	19.6	6 10	15 44.89	-15 28.4	1.923	2.889	7.6	19.3
6 20	15 37.72	-11 53.3	1.009	1.934	17.3	19.9	6 20	15 39.43	-14 49.6	1.983	2.889	11.1	19.5
6 30	15 35.73	-11 29.3	1.065	1.927	21.7	20.1	6 30	15 35.97	-14 21.8	2.065	2.889	14.0	19.7
<b>44709</b>	1999 <i>TV</i> <sub>1</sub>		5 22.6 282°84	1°9/21.8	18		<b>327898</b>	2007 <i>BS</i> <sub>88</sub>		5 22.6 237°36	1°7/21.8	18	
4 21	16 23.97	-17 50.9	1.556	2.440	14.1	19.0	4 21	16 24.16	-16 49.5	1.947	2.821	12.2	21.4
5 1	16 18.30	-17 20.3	1.464	2.414	10.2	18.7	5 1	16 17.87	-16 30.0	1.863	2.808	8.8	21.2
5 11	16 10.06	-16 44.7	1.394	2.387	5.8	18.4	5 11	16 9.56	-16 8.1	1.804	2.795	5.0	20.9
5 21	16 0.04	-16 6.3	1.350	2.360	1.9	18.0	5 21	15 59.97	-15 45.8	1.771	2.781	1.8	20.7
5 31	15 49.44	-15 29.1	1.331	2.333	5.2	18.2	5 31	15 50.08	-15 25.4	1.767	2.767	4.3	20.8
6 10	15 39.64	-14 57.8	1.338	2.305	10.1	18.4	6 10	15 40.96	-15 9.9	1.789	2.752	8.4	21.0
6 20	15 31.79	-14 36.4	1.368	2.277	14.8	18.6	6 20	15 33.45	-15 1.8	1.837	2.736	12.1	21.2
6 30	15 26.72	-14 28.1	1.416	2.249	18.8	18.8	6 30	15 28.21	-15 2.8	1.905	2.721	15.3	21.4
<b>29263</b>	1993 <i>FY</i> <sub>14</sub>		5 22.6 138°91	2°0/23.5	18		<b>308430</b>	2005 <i>SH</i> <sub>144</sub>		5 22.6 238°33	1°8/23.5	18	
4 21	16 23.33	-26 19.1	2.310	3.167	11.2	19.1	4 21	16 22.00	-26 20.1	2.515	3.370	10.4	21.0
5 1	16 17.02	-26 40.0	2.238	3.171	8.2	18.9	5 1	16 16.04	-26 32.5	2.429	3.361	7.7	20.8
5 11	16 8.96	-26 53.7	2.192	3.175	5.0	18.7	5 11	16 8.43	-26 37.9	2.369	3.353	4.7	20.6
5 21	15 59.85	-26 59.6	2.172	3.179	2.2	18.6	5 21	15 59.80	-26 36.1	2.337	3.344	2.0	20.4
5 31	15 50.57	-26 57.9	2.181	3.183	3.4	18.6	5 31	15 50.94	-26 27.5	2.333	3.335	3.2	20.5
6 10	15 42.05	-26 50.8	2.218	3.186	6.6	18.8	6 10	15 42.70	-26 14.2	2.358	3.326	6.2	20.7
6 20	15 35.03	-26 40.9	2.281	3.190	9.7	19.0	6 20	15 35.79	-25 58.9	2.408	3.317	9.2	20.8
6 30	15 30.05	-26 31.4	2.366	3.193	12.4	19.2	6 30	15 30.75	-25 44.4	2.482	3.307	11.9	21.0
<b>268918</b>	2007 <i>CW</i> <sub>37</sub>		5 22.6 51°88	1°9/23.4	17		<b>52791</b>	1998 <i>QC</i> <sub>49</sub>		5 22.6 201°66	2°6/21.6	18	
4 21	16 24.08	-25 43.0	1.525	2.401	14.8	20.7	4 21	16 26.00	-15 56.5	1.558	2.440	14.2	19.6
5 1	16 18.12	-25 45.3	1.466	2.409	10.8	20.5	5 1	16 19.44	-15 24.5	1.489	2.437	10.3	19.4
5 11	16 9.74	-25 37.2	1.429	2.417	6.4	20.3	5 11	16 10.50	-14 50.3	1.442	2.434	5.9	19.1
5 21	15 59.96	-25 18.7	1.416	2.426	2.3	20.0	5 21	16 0.10	-14 16.7	1.421	2.430	2.6	18.9
5 31	15 50.08	-24 52.0	1.430	2.434	4.2	20.2	5 31	15 49.48	-13 47.7	1.427	2.426	5.4	19.0
6 10	15 41.42	-24 21.4	1.469	2.443	8.6	20.5	6 10	15 39.93	-13 27.1	1.458	2.421	9.9	19.3
6 20	15 34.95	-23 51.8	1.531	2.452	12.7	20.7	6 20	15 32.43	-13 17.6	1.513	2.415	14.0	19.5
6 30	15 31.27	-23 27.6	1.613	2.462	16.2	21.0	6 30	15 27.65	-13 20.7	1.587	2.409	17.6	19.7
<b>471455</b>	2011 <i>UY</i> <sub>184</sub>		5 22.6 313°29	2°5/21.6	18		<b>289501</b>	2005 <i>EJ</i> <sub>133</sub>		5 22.6 255°90	5°7/28.3	18	
4 21	16 21.12	-13 16.1	1.973	2.852	11.8	20.5	4 21	16 20.90	-51 6.0	4.604	5.316	8.2	20.2
5 1	16 15.62	-13 13.7	1.896	2.842	8.6	20.2	5 1	16 14.98	-51 40.3	4.520	5.313	7.3	20.1
5 11	16 8.27	-13 13.3	1.843	2.832	5.0	20.0	5 11	16 7.74	-52 2.7	4.458	5.310	6.4	20.1
5 21	15 59.76	-13 16.5	1.816	2.823	2.6	19.8	5 21	15 59.70	-52 11.7	4.421	5.306	5.8	20.0
5 31	15 51.00	-13 24.9	1.816	2.813	4.6	19.9	5 31	15 51.47	-52 6.8	4.410	5.303	5.7	20.0
6 10	15 42.95	-13 39.9	1.843	2.804	8.3	20.1	6 10	15 43.72	-51 49.0	4.424	5.299	6.1	20.0
6 20	15 36.41	-14 2.3	1.895	2.795	11.7	20.3	6 20	15 37.00	-51 20.4	4.462	5.296	6.9	20.1
6 30	15 31.97	-14 32.5	1.968	2.787	14.8	20.5	6 30	15 31.77	-50 43.8	4.524	5.292	7.8	20.2
<b>323230</b>	2003 <i>SJ</i> <sub>146</sub>		5 22.6 221°66	1°3/23.3	17		<b>123846</b>	2001 <i>CQ</i> <sub>31</sub>					

EPHEMERIDES

5 22.6

5 22.6

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>393321</b>	2014 <i>AY</i> <sub>49</sub>		5 22.6 159°55	4.4/19.8	17		<b>383924</b>	2008 <i>SJ</i> <sub>167</sub>		5 22.6 223°81	0.6/22.9	18	
4 21	16 20.37	- 7 53.9	2.429	3.297	10.3	22.2	4 21	16 23.52	-22 49.2	2.301	3.163	11.0	21.7
5 1	16 14.63	- 7 4.2	2.367	3.302	7.7	22.0	5 1	16 17.22	-22 44.2	2.215	3.153	7.9	21.5
5 11	16 7.53	- 6 18.5	2.331	3.307	5.3	21.9	5 11	16 9.13	-22 33.2	2.154	3.143	4.5	21.2
5 21	15 59.67	- 5 39.9	2.323	3.312	4.4	21.8	5 21	15 59.95	-22 16.8	2.121	3.132	0.9	21.0
5 31	15 51.77	- 5 11.4	2.343	3.316	5.8	21.9	5 31	15 50.53	-21 56.4	2.117	3.121	3.1	21.1
6 10	15 44.55	- 4 55.0	2.390	3.320	8.3	22.1	6 10	15 41.80	-21 34.6	2.141	3.109	6.8	21.3
6 20	15 38.58	- 4 51.4	2.461	3.323	10.8	22.2	6 20	15 34.50	-21 14.4	2.191	3.097	10.2	21.5
6 30	15 34.29	- 5 0.3	2.554	3.326	13.0	22.4	6 30	15 29.21	-20 58.5	2.264	3.084	13.1	21.7
<b>505212</b>	2012 <i>TZ</i> <sub>260</sub>		5 22.6 191°02	4.2/19.9	18		<b>407708</b>	2011 <i>UO</i> <sub>194</sub>		5 22.6 159°99	1.4/21.9	16	
4 21	16 20.19	- 8 49.9	2.432	3.301	10.2	22.2	4 21	16 25.00	-19 57.7	1.521	2.403	14.5	21.3
5 1	16 14.55	- 7 58.9	2.363	3.300	7.6	22.0	5 1	16 18.71	-19 9.0	1.457	2.406	10.4	21.1
5 11	16 7.51	- 7 10.8	2.320	3.298	5.2	21.8	5 11	16 10.07	-18 13.0	1.416	2.409	5.7	20.8
5 21	15 59.67	- 6 28.9	2.304	3.296	4.2	21.8	5 21	16 0.09	-17 13.2	1.400	2.411	1.5	20.5
5 31	15 51.75	- 5 56.3	2.317	3.294	5.7	21.9	5 31	15 50.02	-16 14.7	1.411	2.413	4.8	20.8
6 10	15 44.48	- 5 35.4	2.357	3.291	8.2	22.0	6 10	15 41.13	-15 23.1	1.448	2.415	9.5	21.0
6 20	15 38.43	- 5 27.2	2.422	3.287	10.8	22.2	6 20	15 34.37	-14 43.0	1.508	2.417	13.7	21.3
6 30	15 34.07	- 5 31.6	2.508	3.283	13.2	22.3	6 30	15 30.32	-14 17.2	1.588	2.418	17.2	21.5
<b>429734</b>	2011 <i>LM</i> <sub>11</sub>		5 22.6 24°50	5.5/20.6	17		<b>381919</b>	2010 <i>CB</i> <sub>70</sub>		5 22.6 152°27	0.9/23.1	17	
4 21	16 21.43	- 7 24.1	1.644	2.526	13.6	20.2	4 21	16 23.63	-24 6.4	2.068	2.933	11.9	21.9
5 1	16 15.94	- 6 55.5	1.587	2.530	10.2	20.0	5 1	16 17.33	-23 58.4	1.999	2.938	8.6	21.7
5 11	16 8.45	- 6 34.2	1.553	2.534	7.0	19.8	5 11	16 9.18	-23 43.0	1.954	2.943	4.9	21.5
5 21	15 59.82	- 6 23.8	1.544	2.538	5.5	19.7	5 21	15 59.96	-23 20.9	1.936	2.947	1.3	21.3
5 31	15 51.09	- 6 27.0	1.560	2.542	7.2	19.8	5 31	15 50.64	-22 53.9	1.947	2.951	3.3	21.4
6 10	15 43.32	- 6 45.2	1.601	2.547	10.5	20.0	6 10	15 42.20	-22 25.2	1.985	2.955	7.1	21.7
6 20	15 37.33	- 7 17.7	1.665	2.552	13.8	20.2	6 20	15 35.40	-21 58.3	2.048	2.958	10.5	21.9
6 30	15 33.68	- 8 3.2	1.748	2.558	16.7	20.4	6 30	15 30.79	-21 36.5	2.134	2.962	13.5	22.1
<b>150188</b>	1998 <i>MT</i> <sub>16</sub>		5 22.6 299°59	0.6/22.9	18		<b>262134</b>	2006 <i>SW</i> <sub>59</sub>		5 22.6 311°49	3.3/21.8	17	
4 21	16 20.37	-22 55.4	2.155	3.026	11.3	20.6	4 21	16 23.26	-13 29.2	1.261	2.157	15.9	19.9
5 1	16 15.15	-22 47.0	2.059	3.001	8.2	20.3	5 1	16 18.29	-13 27.6	1.176	2.131	11.7	19.6
5 11	16 8.08	-22 32.1	1.987	2.977	4.7	20.1	5 11	16 10.32	-13 29.2	1.112	2.105	7.0	19.3
5 21	15 59.79	-22 11.5	1.942	2.953	0.9	19.7	5 21	16 0.18	-13 36.5	1.071	2.079	3.3	19.0
5 31	15 51.15	-21 46.8	1.924	2.929	3.3	19.9	5 31	15 49.27	-13 52.0	1.053	2.054	6.4	19.1
6 10	15 43.12	-21 20.9	1.934	2.905	7.2	20.1	6 10	15 39.20	-14 17.9	1.059	2.029	11.7	19.3
6 20	15 36.52	-20 56.9	1.969	2.881	10.8	20.2	6 20	15 31.38	-14 55.2	1.086	2.006	16.8	19.5
6 30	15 31.97	-20 38.0	2.025	2.857	14.0	20.4	6 30	15 26.82	-15 44.1	1.130	1.983	21.3	19.7
<b>257299</b>	2009 <i>HB</i> <sub>60</sub>		5 22.6 349°98	0.4/22.7	17		<b>63668</b>	2001 <i>QP</i> <sub>131</sub>		5 22.6 178°20	5.8/18.9	17	
4 21	16 19.86	-21 30.0	1.067	1.972	17.3	20.0	4 21	16 22.26	- 4 40.8	2.296	3.158	11.0	19.9
5 1	16 15.95	-21 31.6	1.005	1.964	12.6	19.7	5 1	16 16.05	- 3 35.7	2.234	3.161	8.5	19.7
5 11	16 8.94	-21 25.8	0.961	1.957	7.1	19.4	5 11	16 8.37	- 2 36.5	2.197	3.162	6.4	19.6
5 21	15 59.93	-21 13.4	0.940	1.951	1.1	19.0	5 21	15 59.84	- 1 47.4	2.187	3.163	5.8	19.6
5 31	15 50.51	-20 57.1	0.940	1.947	5.1	19.2	5 31	15 51.26	- 1 12.1	2.205	3.163	7.2	19.6
6 10	15 42.44	-20 41.6	0.963	1.944	10.9	19.5	6 10	15 43.39	- 0 52.7	2.250	3.163	9.5	19.8
6 20	15 37.01	-20 31.5	1.005	1.942	16.1	19.8	6 20	15 36.87	- 0 49.7	2.318	3.161	12.0	20.0
6 30	15 35.03	-20 30.5	1.064	1.942	20.5	20.1	6 30	15 32.15	- 1 2.2	2.407	3.159	14.2	20.1
<b>400359</b>	2007 <i>VH</i> <sub>173</sub>		5 22.6 222°05	1.8/20.8	17		<b>105282</b>	2000 <i>QK</i> <sub>36</sub>		5 22.6 185°50	6.6/18.8	18	
4 21	16 15.10	-12 51.6	4.148	5.012	6.4	22.7	4 21	16 22.02	- 1 51.6	2.208	3.067	11.5	20.1
5 1	16 10.55	-12 19.5	4.063	5.002	4.6	22.5	5 1	16 15.96	- 0 56.8	2.146	3.067	9.2	19.9
5 11	16 5.18	-11 47.7	4.006	4.991	2.8	22.4	5 11	16 8.34	- 0 10.6	2.108	3.066	7.2	19.8
5 21	15 59.36	-11 17.4	3.978	4.980	1.8	22.3	5 21	15 59.84	+ 0 22.9	2.097	3.065	6.7	19.7
5 31	15 53.46	-10 50.4	3.980	4.968	2.9	22.4	5 31	15 51.26	+ 0 40.3	2.113	3.064	7.9	19.8
6 10	15 47.89	-10 28.0	4.012	4.956	4.8	22.5	6 10	15 43.40	+ 0 40.3	2.155	3.061	10.2	20.0
6 20	15 42.99	-10 11.1	4.070	4.944	6.6	22.6	6 20	15 36.91	+ 0 23.1	2.219	3.059	12.6	20.1
6 30	15 39.07	-10 0.7	4.153	4.932	8.3	22.7	6 30	15 32.28	- 0 9.5	2.304	3.055	14.8	20.3
<b>35039</b>	1981 <i>EE</i> <sub>33</sub>		5 22.6 117°72	7.0/26.3	17		<b>480297</b>	2015 <i>HB</i> <sub>155</sub>		5 22.6 27°90	4.8/24.8	16	
4 21	16 28.71	-40 9.6	1.969	2.781	14.5	20.3	4 21	16 23.36	-32 40.5	1.584	2.443	15.2	20.9
5 1	16 21.37	-40 44.0	1.905	2.792	11.9	20.1	5 1	16 17.74	-32 57.5	1.523	2.450	11.7	20.7
5 11	16 11.55	-40 59.3	1.862	2.803	9.2	20.0	5 11	16 9.62	-32 58.4	1.483	2.457	8.0	20.5
5 21	16 0.27	-40 52.3	1.844	2.814	7.3	19.9	5 21	16 0.03	-32 41.6	1.468	2.465	5.2	20.3
5 31	15 48.88	-40 23.0	1.853	2.824	7.3	19.9	5 31	15 50.32	-32 8.3	1.477	2.474	5.6	20.4
6 10	15 38.72	-39 35.4	1.887	2.834	9.0	20.0	6 10	15 41.85	-31 23.3	1.512	2.483	8.8	20.6
6 20	15 30.79	-38 36.0	1.945	2.844	11.6	20.2	6 20	15 35.61	-30 33.1	1.570	2.492	12.4	20.8
6 30	15 25.73	-37 32.3	2.025	2.853	14.1	20.4	6 30	15 32.23	-29 44.1	1.648	2.502	15.6	21.0
<b>142946</b>	2002 <i>VD</i> <sub>70</sub>		5 22.6 308°00	1.4/22.2	18		<b>471483</b>	2011 <i>UB</i> <sub>398</sub>		5 22.6 211°80	0.2/22.8	18	
4 21	16 22.75	-17 51.0	1.360	2.252	15.2	19.6	4 21	16 20.22	-22 48.3	2.673	3.536	9.6	21.3
5 1	16 17.71	-17 45.9	1.276	2.230	11.1	19.3	5 1	16 14.60	-22 21.8	2.591	3.530	6.9	21.1
5 11	16 9.87	-17 38.0	1.214	2.208	6.2	18.9	5 11	16 7.58	-21 49.3	2.535	3.524	3.9	20.9
5 21	16 0.09	-17 28.9	1.175	2.186	1.5	18.6	5 21	15 59.74	-21 12.2	2.507	3.518	0.6	20.6
5 31	15 49.68	-17 21.0	1.161	2.165	5.1	18.7	5 31	15 51.80	-20 32.6	2.508	3.512	2.7	20.8
6 10	15 40.17	-17 17.7	1.171	2.144	10.5	19.0	6 10	15 44.47	-19 53.4	2.538	3.505	5.9	21.0
6 20	15 32.84	-17 22.1	1.202	2.123	15.4	19.2	6 20	15 38.34	-19 17.4	2.595	3.498	8.9	21.2
6 30	15 28.58	-17 36.5	1.252	2.104	19.7	19.4	6 30	15 33.87	-18 47.2	2.675	3.490	11.4	21.4
<b>415725</b>	1999 <i>TS</i> <sub>294</sub>		5 22.6 184°20	3.1/23.9	17								

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5 22.6

5 22.7

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>173659</b>	2001 <i>HC</i> <sub>38</sub>		5 22.6 51°32'	4.8/21.5	18		<b>200699</b>	2001 <i>UR</i> <sub>74</sub>		5 22.7 175°31'	1.1/22.3	18	
4 21	16 25.47	-9 24.7	1.322	2.210	15.8	19.3	4 21	16 27.63	-18 13.8	1.729	2.602	13.5	20.7
5 1	16 19.12	-9 21.8	1.275	2.223	11.6	19.1	5 1	16 20.47	-18 7.5	1.660	2.605	9.7	20.5
5 11	16 10.32	-9 26.5	1.250	2.237	7.3	18.9	5 11	16 11.06	-17 58.2	1.616	2.607	5.4	20.3
5 21	16 0.14	-9 41.2	1.249	2.251	4.8	18.8	5 21	16 0.30	-17 47.0	1.597	2.609	1.2	20.0
5 31	15 49.95	-10 7.5	1.273	2.266	6.9	18.9	5 31	15 49.36	-17 35.9	1.607	2.609	4.2	20.2
6 10	15 41.09	-10 45.5	1.321	2.280	10.9	19.2	6 10	15 39.43	-17 27.6	1.643	2.609	8.6	20.5
6 20	15 34.52	-11 34.0	1.391	2.296	14.9	19.4	6 20	15 31.47	-17 24.8	1.704	2.609	12.6	20.7
6 30	15 30.80	-12 31.6	1.480	2.311	18.2	19.7	6 30	15 26.09	-17 29.6	1.786	2.607	16.0	20.9
<b>408907</b>	2001 <i>VX</i> <sub>85</sub>		5 22.6 255°51'	2.6/23.4	17		<b>503630</b>	2016 <i>GX</i> <sub>146</sub>		5 22.7 157°45'	1.5/21.9	17	
4 21	16 29.07	-25 34.8	1.592	2.459	14.8	21.0	4 21	16 24.32	-19 13.9	1.643	2.523	13.7	21.8
5 1	16 22.17	-26 6.1	1.503	2.441	11.0	20.7	5 1	16 18.11	-18 29.9	1.578	2.526	9.8	21.5
5 11	16 12.35	-26 29.6	1.436	2.422	6.7	20.4	5 11	16 9.73	-17 40.1	1.537	2.529	5.4	21.3
5 21	16 0.49	-26 42.7	1.395	2.403	2.9	20.1	5 21	16 0.11	-16 47.7	1.521	2.532	1.6	21.0
5 31	15 47.93	-26 44.7	1.380	2.383	4.7	20.2	5 31	15 50.40	-15 57.0	1.533	2.535	4.6	21.2
6 10	15 36.25	-26 38.0	1.392	2.363	9.4	20.4	6 10	15 41.77	-15 12.8	1.571	2.537	9.0	21.5
6 20	15 26.75	-26 26.8	1.427	2.342	13.9	20.6	6 20	15 35.11	-14 39.1	1.633	2.539	13.0	21.7
6 30	15 20.37	-26 16.4	1.482	2.321	17.8	20.8	6 30	15 30.97	-14 18.2	1.715	2.541	16.3	22.0
<b>151155</b>	2001 <i>XL</i> <sub>92</sub>		5 22.6 101°42'	0.4/22.5	18		<b>475636</b>	2006 <i>UQ</i> <sub>241</sub>		5 22.7 274°30'	1.1/23.2	17	
4 21	16 25.07	-19 17.1	1.738	2.614	13.3	19.7	4 21	16 21.54	-24 8.9	2.201	3.066	11.3	21.6
5 1	16 18.59	-19 24.4	1.676	2.622	9.5	19.4	5 1	16 15.93	-24 8.2	2.115	3.054	8.2	21.4
5 11	16 9.97	-19 28.5	1.638	2.630	5.2	19.2	5 11	16 8.51	-24 0.8	2.053	3.042	4.8	21.2
5 21	16 0.11	-19 29.9	1.626	2.638	0.8	18.9	5 21	15 59.94	-23 46.9	2.019	3.029	1.4	20.9
5 31	15 50.12	-19 29.9	1.641	2.645	3.9	19.1	5 31	15 51.12	-23 27.9	2.012	3.017	3.2	21.0
6 10	15 41.15	-19 30.7	1.683	2.653	8.2	19.4	6 10	15 42.98	-23 6.4	2.034	3.004	6.9	21.2
6 20	15 34.08	-19 34.8	1.750	2.660	12.0	19.7	6 20	15 36.30	-22 45.5	2.080	2.992	10.3	21.4
6 30	15 29.48	-19 44.0	1.837	2.668	15.2	19.9	6 30	15 31.67	-22 28.2	2.149	2.979	13.3	21.6
<b>248158</b>	2004 <i>UV</i> <sub>9</sub>		5 22.6 180°19'	0.7/23.1	17		<b>434399</b>	2005 <i>GC</i> <sub>15</sub>		5 22.7 74°90'	4.0/24.4	17	
4 21	16 23.70	-26 25.6	2.064	2.925	12.1	20.3	4 21	16 24.61	-31 5.5	1.953	2.804	13.1	21.7
5 1	16 17.32	-25 23.2	1.988	2.926	8.8	20.1	5 1	16 18.33	-31 32.2	1.884	2.808	10.0	21.5
5 11	16 9.15	-24 8.7	1.938	2.926	5.0	19.9	5 11	16 9.89	-31 46.9	1.839	2.813	6.7	21.3
5 21	15 59.98	-22 44.5	1.915	2.926	1.1	19.6	5 21	16 0.14	-31 47.9	1.819	2.817	4.2	21.1
5 31	15 50.81	-21 15.4	1.921	2.926	3.3	19.8	5 31	15 50.20	-31 35.6	1.826	2.822	4.8	21.2
6 10	15 42.59	-19 47.5	1.956	2.925	7.3	20.0	6 10	15 41.22	-31 13.0	1.860	2.827	7.8	21.4
6 20	15 36.06	-18 26.3	2.018	2.925	10.8	20.2	6 20	15 34.10	-30 44.5	1.918	2.831	11.0	21.6
6 30	15 31.71	-17 16.4	2.102	2.923	13.9	20.4	6 30	15 29.47	-30 15.0	1.999	2.836	13.9	21.8
<b>507543</b>	2012 <i>XK</i> <sub>80</sub>		5 22.7 46°43'	2.3/21.1	17		<b>182171</b>	2000 <i>SZ</i> <sub>222</sub>		5 22.7 214°08'	0.1/22.6	18	
4 21	16 19.87	-17 15.0	2.003	2.883	11.6	21.4	4 21	16 20.43	-21 15.6	2.834	3.696	9.2	21.7
5 1	16 14.58	-16 7.3	1.937	2.886	8.3	21.2	5 1	16 14.72	-20 59.6	2.749	3.689	6.6	21.5
5 11	16 7.64	-14 55.5	1.897	2.888	4.7	21.0	5 11	16 7.66	-20 39.3	2.691	3.681	3.6	21.3
5 21	15 59.78	-13 43.8	1.884	2.891	2.3	20.8	5 21	15 59.81	-20 15.6	2.661	3.673	0.5	21.1
5 31	15 51.89	-12 36.7	1.899	2.894	4.7	21.0	5 31	15 51.82	-19 50.3	2.660	3.664	2.7	21.2
6 10	15 44.85	-11 38.9	1.940	2.898	8.2	21.2	6 10	15 44.38	-19 25.5	2.689	3.655	5.7	21.4
6 20	15 39.32	-10 53.6	2.007	2.901	11.5	21.4	6 20	15 38.06	-19 3.4	2.744	3.645	8.5	21.6
6 30	15 35.78	-10 22.4	2.094	2.904	14.3	21.6	6 30	15 33.31	-18 46.2	2.823	3.635	11.0	21.7
<b>34665</b>	2000 <i>WW</i> <sub>184</sub>		5 22.7 211°41'	7.0/18.7	18		<b>109379</b>	2001 <i>QU</i> <sub>163</sub>		5 22.7 210°31'	1.0/21.9	18	
4 21	16 22.06	-0 42.2	2.212	3.068	11.6	19.1	4 21	16 22.74	-19 35.1	1.816	2.694	12.7	19.8
5 1	16 16.05	+0 9.4	2.144	3.062	9.3	18.9	5 1	16 16.88	-18 47.9	1.744	2.691	9.1	19.6
5 11	16 8.45	+0 51.7	2.101	3.055	7.5	18.8	5 11	16 9.04	-17 54.5	1.696	2.688	5.0	19.3
5 21	15 59.91	+1 20.5	2.084	3.047	7.0	18.7	5 21	16 0.03	-16 58.0	1.675	2.685	1.4	19.1
5 31	15 51.24	+1 32.6	2.093	3.040	8.3	18.8	5 31	15 50.89	-16 2.5	1.681	2.682	4.3	19.3
6 10	15 43.24	+1 26.4	2.128	3.031	10.5	18.9	6 10	15 42.68	-15 12.9	1.714	2.679	8.4	19.5
6 20	15 36.60	+1 2.7	2.186	3.022	12.9	19.1	6 20	15 36.21	-14 32.9	1.771	2.675	12.2	19.7
6 30	15 31.81	+0 23.1	2.264	3.013	15.1	19.2	6 30	15 32.06	-14 5.3	1.849	2.671	15.5	19.9
<b>230334</b>	2002 <i>CM</i> <sub>142</sub>		5 22.7 133°98'	2.7/20.4	18		<b>357053</b>	2000 <i>WF</i> <sub>36</sub>		5 22.7 200°09'	2.5/21.2	18	
4 21	16 15.84	-9 22.9	3.692	4.556	7.2	21.5	4 21	16 22.81	-12 49.9	2.605	3.470	9.8	22.0
5 1	16 11.11	-8 56.3	3.631	4.566	5.3	21.3	5 1	16 16.44	-12 26.8	2.526	3.465	7.1	21.8
5 11	16 5.53	-8 32.0	3.597	4.576	3.5	21.2	5 11	16 8.63	-12 4.5	2.473	3.459	4.3	21.6
5 21	15 59.48	-8 11.6	3.591	4.586	2.7	21.2	5 21	15 59.97	-11 44.8	2.449	3.453	2.5	21.5
5 31	15 53.42	-7 56.7	3.615	4.595	3.7	21.2	5 31	15 51.17	-11 29.6	2.454	3.446	4.2	21.6
6 10	15 47.78	-7 48.2	3.668	4.604	5.5	21.4	6 10	15 42.96	-11 21.0	2.488	3.438	7.0	21.8
6 20	15 42.92	-7 46.8	3.746	4.613	7.3	21.5	6 20	15 35.95	-11 20.0	2.548	3.429	9.8	21.9
6 30	15 39.14	-7 52.7	3.848	4.622	9.0	21.7	6 30	15 30.63	-11 27.4	2.631	3.420	12.3	22.1
<b>414129</b>	2007 <i>VL</i> <sub>50</sub>		5 22.7 193°95'	1.2/23.2	17		<b>162477</b>	2000 <i>NV</i> <sub>28</sub>		5 22.7 262°14'	3.9/24.4	17	
4 21	16 25.59	-25 35.4	1.653	2.523	14.2	21.6	4 21	16 26.65	-31 3.0	1.545	2.406	15.5	20.1
5 1	16 19.16	-25 8.4	1.581	2.522	10.3	21.4	5 1	16 20.43	-30 59.9	1.459	2.390	11.9	19.8
5 11	16 10.38	-24 29.7	1.531	2.520	6.0	21.1	5 11	16 11.35	-30 40.1	1.395	2.374	7.8	19.6
5 21	16 0.20	-23 40.5	1.508	2.519	1.6	20.8	5 21	16 0.40	-30 1.9	1.355	2.358	4.3	19.3
5 31	15 49.86	-22 44.3	1.512	2.516	4.0	21.0	5 31	15 48.98	-29 6.7	1.340	2.341	5.2	19.3
6 10	15 40.64	-21 46.7	1.541	2.514	8.5	21.2	6 10	15 38.66	-28 0.4	1.352	2.325	9.4	19.5
6 20	15 33.49	-20 53.5	1.596	2.511	12.7	21.5	6 20	15 30.67	-26 50.6	1.386	2.307	13.8	19.7
6 30	15 29.04	-20 9.3	1.670	2.508	16.2	21.7	6 30	15 25.83	-25 45.3	1.441	2.290	17.7	19.9
<b>342843</b>	Davidbowie		5 22.7 248°21'	0.1/22.6	17		<b>33703</b>	Anthonyhill		5 22.7 47°32'	3.5/21.1		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>4307</b>	Cherepashchuk 5 22.7 277°00 2°3/23.5 18						<b>88007</b>	2000 UK <sub>47</sub> 5 22.7 294°99 0°1/22.7 18					
4 21	16 25.55	-25 45.4	1.557	2.430	14.7	16.7	4 21	16 20.89	-21 23.3	2.100	2.973	11.4	19.6
5 1	16 19.48	-26 3.7	1.480	2.421	10.9	16.5	5 1	16 15.59	-21 13.6	2.006	2.951	8.3	19.3
5 11	16 10.76	-26 12.6	1.425	2.412	6.6	16.2	5 11	16 8.41	-20 58.5	1.937	2.928	4.7	19.1
5 21	16 0.31	-26 10.9	1.395	2.404	2.7	15.9	5 21	15 59.99	-20 39.0	1.894	2.906	0.7	18.7
5 31	15 49.45	-25 59.3	1.391	2.395	4.5	16.0	5 31	15 51.23	-20 16.7	1.880	2.884	3.4	18.9
6 10	15 39.61	-25 41.0	1.413	2.387	9.0	16.2	6 10	15 43.10	-19 54.7	1.892	2.862	7.4	19.1
6 20	15 31.94	-25 20.7	1.458	2.378	13.3	16.5	6 20	15 36.41	-19 35.8	1.929	2.840	11.1	19.3
6 30	15 27.21	-25 3.3	1.522	2.369	17.0	16.7	6 30	15 31.82	-19 23.0	1.988	2.818	14.3	19.4
<b>154613</b>	2003 SJ <sub>56</sub> 5 22.7 16°50 4°1/19.7 18						<b>377683</b>	2005 VC <sub>30</sub> 5 22.7 227°17 1°3/22.1 17					
4 21	16 17.64	- 9 25.7	2.416	3.291	10.1	19.6	4 21	16 23.75	-17 51.4	1.897	2.773	12.4	21.7
5 1	16 12.79	- 8 26.9	2.351	3.291	7.5	19.4	5 1	16 17.64	-17 38.3	1.821	2.766	8.9	21.5
5 11	16 6.61	- 7 30.5	2.312	3.292	5.1	19.2	5 11	16 9.51	-17 22.5	1.768	2.760	5.0	21.3
5 21	15 59.68	- 6 40.2	2.301	3.293	4.2	19.2	5 21	16 0.15	-17 5.3	1.742	2.753	1.3	21.0
5 31	15 52.70	- 5 59.4	2.317	3.294	5.6	19.3	5 31	15 50.55	-16 49.2	1.744	2.746	4.1	21.2
6 10	15 46.35	- 5 30.5	2.359	3.294	8.1	19.4	6 10	15 41.77	-16 36.8	1.773	2.738	8.1	21.4
6 20	15 41.18	- 5 14.8	2.426	3.295	10.7	19.6	6 20	15 34.66	-16 30.6	1.826	2.731	11.9	21.6
6 30	15 37.63	- 5 12.3	2.515	3.296	13.0	19.8	6 30	15 29.83	-16 32.4	1.900	2.723	15.1	21.8
<b>507135</b>	2009 VB <sub>67</sub> 5 22.7 232°73 0°7/23.0 17						<b>246434</b>	2007 VH <sub>91</sub> 5 22.7 335°64 3°0/24.1 18					
4 21	16 24.42	-24 6.4	2.212	3.073	11.4	23.6	4 21	16 22.75	-29 13.6	1.942	2.801	12.9	20.2
5 1	16 17.98	-23 47.5	2.121	3.059	8.3	23.3	5 1	16 17.00	-29 20.3	1.868	2.799	9.7	20.0
5 11	16 9.65	-23 20.5	2.056	3.044	4.8	23.1	5 11	16 9.18	-29 15.8	1.817	2.797	6.2	19.8
5 21	16 0.14	-22 46.2	2.017	3.028	1.1	22.8	5 21	16 0.10	-28 59.3	1.791	2.796	3.3	19.6
5 31	15 50.37	-22 6.7	2.008	3.012	3.3	22.9	5 31	15 50.82	-28 32.1	1.793	2.794	4.1	19.7
6 10	15 41.32	-21 25.5	2.026	2.995	7.1	23.1	6 10	15 42.45	-27 57.8	1.822	2.793	7.5	19.9
6 20	15 33.79	-20 46.6	2.071	2.977	10.6	23.3	6 20	15 35.86	-27 20.8	1.875	2.792	11.0	20.1
6 30	15 28.37	-20 13.4	2.139	2.959	13.7	23.5	6 30	15 31.64	-26 45.7	1.950	2.791	14.1	20.3
<b>499727</b>	2011 BA <sub>18</sub> 5 22.7 199°44 0°8/23.0 17						<b>123336</b>	2000 VD <sub>45</sub> 5 22.7 102°77 0°5/22.9 18 R					
4 21	16 25.05	-23 49.8	2.038	2.902	12.1	22.7	4 21	16 25.52	-21 40.9	1.909	2.777	12.6	19.8
5 1	16 18.47	-23 37.8	1.960	2.899	8.8	22.5	5 1	16 18.76	-21 50.8	1.850	2.792	9.0	19.6
5 11	16 9.92	-23 18.1	1.906	2.895	5.0	22.2	5 11	16 10.04	-21 55.6	1.817	2.807	5.1	19.4
5 21	16 0.18	-22 51.4	1.880	2.891	1.2	21.9	5 21	16 0.22	-21 55.4	1.810	2.821	0.9	19.1
5 31	15 50.25	-22 19.6	1.881	2.886	3.4	22.1	5 31	15 50.34	-21 51.3	1.831	2.835	3.5	19.3
6 10	15 41.18	-21 46.3	1.911	2.880	7.4	22.3	6 10	15 41.46	-21 45.9	1.879	2.849	7.4	19.6
6 20	15 33.78	-21 15.2	1.966	2.874	11.0	22.5	6 20	15 34.37	-21 41.7	1.952	2.862	11.0	19.8
6 30	15 28.65	-20 49.8	2.043	2.868	14.1	22.7	6 30	15 29.62	-21 41.4	2.047	2.875	14.0	20.0
<b>224138</b>	2005 QL <sub>40</sub> 5 22.7 294°72 1°6/21.9 17						<b>171500</b>	1997 GJ <sub>20</sub> 5 22.7 70°87 0°9/23.0 17					
4 21	16 21.95	-19 15.9	1.533	2.420	14.1	20.5	4 21	16 25.62	-23 25.6	1.443	2.323	15.2	20.1
5 1	16 16.75	-18 31.4	1.454	2.406	10.2	20.3	5 1	16 19.29	-23 22.0	1.390	2.337	11.0	19.8
5 11	16 9.18	-17 39.8	1.398	2.392	5.7	20.0	5 11	16 10.48	-23 9.7	1.359	2.350	6.2	19.6
5 21	16 0.09	-16 44.3	1.367	2.378	1.7	19.7	5 21	16 0.29	-22 49.5	1.353	2.364	1.4	19.3
5 31	15 50.68	-15 49.9	1.362	2.364	4.9	19.9	5 31	15 50.08	-22 24.0	1.372	2.377	4.2	19.5
6 10	15 42.24	-15 1.9	1.382	2.350	9.7	20.1	6 10	15 41.19	-21 57.4	1.417	2.391	8.9	19.9
6 20	15 35.76	-14 25.1	1.424	2.337	14.1	20.3	6 20	15 34.59	-21 34.3	1.484	2.405	13.1	20.1
6 30	15 31.96	-14 2.5	1.486	2.323	17.9	20.5	6 30	15 30.86	-21 18.3	1.572	2.418	16.6	20.4
<b>86320</b>	1999 VT <sub>199</sub> 5 22.7 228°18 3°9/20.5 18						<b>62931</b>	2000 VJ <sub>16</sub> 5 22.7 195°83 0°2/22.6 18					
4 21	16 19.97	- 7 14.0	2.725	3.588	9.4	19.9	4 21	16 27.33	-19 36.2	1.675	2.549	13.8	18.8
5 1	16 14.38	- 6 55.5	2.647	3.580	7.1	19.7	5 1	16 20.45	-19 46.2	1.603	2.547	9.9	18.6
5 11	16 7.50	- 6 41.6	2.595	3.571	4.9	19.5	5 11	16 11.18	-19 52.7	1.554	2.545	5.5	18.3
5 21	15 59.83	- 6 34.3	2.571	3.563	3.9	19.5	5 21	16 0.41	-19 55.8	1.531	2.543	0.8	18.0
5 31	15 52.02	- 6 35.3	2.576	3.554	5.1	19.5	5 31	15 49.36	-19 56.7	1.536	2.540	4.1	18.2
6 10	15 44.73	- 6 45.7	2.609	3.544	7.4	19.7	6 10	15 39.29	-19 57.7	1.567	2.537	8.7	18.5
6 20	15 38.52	- 7 5.7	2.667	3.535	9.9	19.8	6 20	15 31.23	-20 1.4	1.623	2.533	12.8	18.7
6 30	15 33.82	- 7 35.1	2.747	3.525	12.1	20.0	6 30	15 25.86	-20 10.3	1.699	2.529	16.3	18.9
<b>471747</b>	2012 UY <sub>60</sub> 5 22.7 196°50 2°5/21.3 18						<b>16507</b>	Fuuren 5 22.7 275°42 0°1/22.6 18					
4 21	16 20.89	-12 23.5	2.574	3.442	9.7	21.4	4 21	16 22.60	-19 40.6	2.193	3.063	11.1	17.7
5 1	16 15.09	-12 8.3	2.499	3.440	7.1	21.2	5 1	16 16.70	-19 53.2	2.108	3.051	8.0	17.5
5 11	16 7.90	-11 54.6	2.451	3.437	4.3	21.0	5 11	16 8.98	-20 3.3	2.048	3.039	4.5	17.3
5 21	15 59.89	-11 44.1	2.431	3.435	2.5	20.9	5 21	16 0.09	-20 11.0	2.015	3.027	0.6	16.9
5 31	15 51.75	-11 38.4	2.439	3.431	4.1	21.0	5 31	15 50.90	-20 17.1	2.011	3.015	3.3	17.1
6 10	15 44.21	-11 39.2	2.476	3.428	6.9	21.2	6 10	15 42.36	-20 23.1	2.034	3.003	7.1	17.4
6 20	15 37.85	-11 47.2	2.538	3.424	9.7	21.3	6 20	15 35.23	-20 30.7	2.083	2.990	10.5	17.5
6 30	15 33.13	-12 3.0	2.623	3.420	12.1	21.5	6 30	15 30.14	-20 41.9	2.154	2.978	13.5	17.7
<b>106160</b>	2000 TG <sub>61</sub> 5 22.7 247°83 3°3/19.3 18						<b>505615</b>	2014 EK <sub>46</sub> 5 22.7 199°90 5°0/19.9 17					
4 21	16 12.61	- 3 24.3	4.565	5.420	6.1	19.7	4 21	16 20.49	- 5 21.7	2.376	3.241	10.6	21.2
5 1	16 8.76	- 3 0.8	4.495	5.417	4.7	19.6	5 1	16 14.86	- 4 45.9	2.308	3.239	8.1	21.0
5 11	16 4.25	- 2 41.3	4.453	5.414	3.6	19.6	5 11	16 7.80	- 4 16.2	2.266	3.236	5.9	20.9
5 21	15 59.35	- 2 27.4	4.438	5.411	3.3	19.5	5 21	15 59.90	- 3 55.6	2.250	3.234	5.1	20.8
5 31	15 54.41	- 2 20.1	4.452	5.408	4.0	19.6	5 31	15 51.90	- 3 46.5	2.262	3.230	6.3	20.9
6 10	15 49.76	- 2 20.2	4.494	5.405	5.2	19.7	6 10	15 44.54	- 3 50.5	2.300	3.227	8.7	21.0
6 20	15 45.69	- 2 27.8	4.561	5.401	6.6	19.8	6 20	15 38.41	- 4 7.4	2.363	3.223	11.2	21.2
6 30	15 42.44	- 2 42.8	4.651	5.398	7.9	19.9	6 30	15 34.00	- 4 36.5	2.447	3.220	13.5	21.4
<b>39750</b>	1997 CQ <sub>2</sub> 5 22.7 223°70 0°8/23.1 18						<b>31306</b>	1998 FZ <sub>104</sub> 5 22.7 158°72 0°2/22.8 18					
4 21	16 23.45	-23 41.5	2.006	2.874	12.1	19.9	4 21	16 20.67	-23 10.1	2.351	3.217	10.6	18.1
5 1	16 17.38	-23 33.0	1.928	2.868	8.8	19.7	5 1	16 15.07	-22 36.8	2.279	3.219	7.6	17.9
5 11	16 9.35	-23 17.2	1.873	2.863	5.0	19.5	5 11	16 7.					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>183927</b>	2004 <i>DP</i>		5 22.7 100°04	0°3/22.6	18		<b>174664</b>	2003 <i>SR</i> <sub>220</sub>		5 22.7 177°17	0°2/22.6	17	
4 21	16 26.32	-20 20.8	1.654	2.530	13.9	20.7	4 21	16 26.23	-20 56.8	1.909	2.777	12.6	21.1
5 1	16 19.48	-20 14.2	1.600	2.546	9.9	20.5	5 1	16 19.38	-20 46.6	1.837	2.779	9.1	20.8
5 11	16 10.49	-20 2.6	1.570	2.562	5.5	20.3	5 11	16 10.48	-20 31.0	1.790	2.781	5.0	20.6
5 21	16 0.31	-19 47.1	1.566	2.578	0.8	20.0	5 21	16 0.37	-20 10.8	1.770	2.782	0.7	20.3
5 31	15 50.13	-19 30.1	1.589	2.593	4.0	20.2	5 31	15 50.09	-19 48.3	1.778	2.782	3.7	20.5
6 10	15 41.13	-19 14.7	1.639	2.609	8.3	20.5	6 10	15 40.75	-19 26.6	1.814	2.782	7.8	20.8
6 20	15 34.16	-19 4.0	1.712	2.623	12.2	20.8	6 20	15 33.18	-19 8.9	1.875	2.781	11.6	21.0
6 30	15 29.77	-19 0.3	1.807	2.638	15.4	21.0	6 30	15 27.99	-18 57.9	1.957	2.779	14.7	21.2
<b>86215</b>	1999 <i>TY</i> <sub>31</sub>		5 22.7 266°59	6°5/25.3	18		<b>363300</b>	2002 <i>LF</i> <sub>40</sub>		5 22.7 322°94	9°1/19.6	17	
4 21	16 26.97	-39 48.8	2.492	3.295	12.1	19.9	4 21	16 19.91	-4 43.1	1.104	2.004	17.3	19.9
5 1	16 20.13	-40 46.7	2.401	3.281	10.0	19.7	5 1	16 16.16	-3 53.7	1.022	1.971	13.7	19.6
5 11	16 11.04	-41 31.2	2.333	3.267	8.0	19.6	5 11	16 9.34	-3 14.8	0.959	1.938	10.4	19.3
5 21	16 0.42	-41 58.6	2.291	3.252	6.7	19.5	5 21	16 0.27	-2 54.7	0.916	1.906	9.1	19.1
5 31	15 49.30	-42 7.0	2.276	3.238	6.8	19.4	5 31	15 50.32	-3 0.9	0.895	1.875	11.4	19.1
6 10	15 38.82	-41 57.7	2.288	3.224	8.3	19.5	6 10	15 41.17	-3 37.2	0.893	1.845	15.7	19.2
6 20	15 29.99	-41 34.3	2.324	3.209	10.5	19.6	6 20	15 34.32	-4 42.8	0.909	1.817	20.5	19.4
6 30	15 23.55	-41 2.3	2.383	3.194	12.8	19.8	6 30	15 30.85	-6 13.9	0.941	1.790	24.8	19.6
<b>430303</b>	2013 <i>WC</i> <sub>103</sub>		5 22.7 152°86	0°7/22.9	18		<b>288780</b>	2004 <i>RW</i> <sub>102</sub>		5 22.7 248°05	1°7/23.7	18	
4 21	16 26.28	-21 39.2	2.112	2.975	11.8	21.3	4 21	16 20.68	-27 14.3	2.497	3.352	10.5	21.2
5 1	16 19.28	-22 1.3	2.042	2.981	8.5	21.1	5 1	16 15.16	-27 5.6	2.414	3.346	7.7	21.0
5 11	16 10.37	-22 19.3	1.998	2.987	4.8	20.9	5 11	16 8.06	-26 48.5	2.355	3.339	4.7	20.8
5 21	16 0.30	-22 32.5	1.981	2.992	1.0	20.6	5 21	16 0.02	-26 23.2	2.324	3.332	2.0	20.6
5 31	15 50.06	-22 41.4	1.993	2.997	3.3	20.8	5 31	15 51.82	-25 51.4	2.322	3.325	3.1	20.6
6 10	15 40.65	-22 47.5	2.033	3.002	7.1	21.0	6 10	15 44.28	-25 15.7	2.348	3.318	6.1	20.8
6 20	15 32.88	-22 53.0	2.099	3.006	10.5	21.3	6 20	15 38.06	-24 39.6	2.400	3.311	9.2	21.0
6 30	15 27.31	-23 0.4	2.188	3.010	13.4	21.5	6 30	15 33.68	-24 6.4	2.475	3.304	11.8	21.2
<b>17640</b>	Mount Stromlo		5 22.7 230°95	6°1/20.5	18		<b>315258</b>	2007 <i>TK</i> <sub>18</sub>		5 22.7 296°38	0°2/22.6	17	
4 21	16 28.89	-2 9.1	2.172	3.019	12.1	18.4	4 21	16 24.88	-20 25.2	1.321	2.210	15.8	20.8
5 1	16 21.14	-1 56.5	2.085	3.002	9.5	18.2	5 1	16 19.57	-20 24.2	1.231	2.183	11.6	20.5
5 11	16 11.44	-1 53.9	2.022	2.985	7.2	18.0	5 11	16 11.18	-20 17.6	1.162	2.155	6.6	20.1
5 21	16 0.48	-2 4.0	1.987	2.966	6.1	17.9	5 21	16 0.55	-20 5.7	1.116	2.128	1.0	19.6
5 31	15 49.17	-2 29.1	1.981	2.946	7.4	18.0	5 31	15 49.09	-19 50.5	1.095	2.100	5.0	19.8
6 10	15 38.50	-3 9.3	2.003	2.925	10.1	18.1	6 10	15 38.47	-19 35.9	1.098	2.073	10.7	20.1
6 20	15 29.30	-4 3.7	2.051	2.903	13.0	18.2	6 20	15 30.15	-19 26.3	1.122	2.045	16.1	20.3
6 30	15 22.21	-5 10.0	2.120	2.880	15.7	18.4	6 30	15 25.15	-19 25.9	1.164	2.018	20.7	20.5
<b>258534</b>	2002 <i>BG</i> <sub>19</sub>		5 22.7 125°74	2°8/21.4	17		<b>394339</b>	2006 <i>XA</i> <sub>15</sub>		5 22.7 125°83	0°1/22.6	18	
4 21	16 21.13	-11 41.3	2.381	3.252	10.4	20.3	4 21	16 20.62	-21 35.3	2.748	3.610	9.4	22.2
5 1	16 15.32	-11 32.5	2.316	3.257	7.5	20.1	5 1	16 14.81	-21 14.1	2.684	3.624	6.7	22.0
5 11	16 8.06	-11 26.3	2.276	3.262	4.6	20.0	5 11	16 7.73	-20 48.6	2.647	3.637	3.7	21.9
5 21	15 59.97	-11 24.2	2.263	3.267	2.8	19.8	5 21	15 59.97	-20 19.8	2.638	3.650	0.5	21.6
5 31	15 51.78	-11 27.6	2.279	3.272	4.4	19.9	5 31	15 52.19	-19 49.8	2.659	3.662	2.6	21.8
6 10	15 44.27	-11 37.8	2.323	3.276	7.3	20.1	6 10	15 45.08	-19 20.9	2.708	3.674	5.7	22.0
6 20	15 38.04	-11 55.3	2.392	3.281	10.1	20.3	6 20	15 39.17	-18 55.4	2.784	3.686	8.4	22.2
6 30	15 33.56	-12 20.3	2.484	3.285	12.6	20.5	6 30	15 34.85	-18 35.2	2.884	3.697	10.7	22.4
<b>117293</b>	2004 <i>TC</i> <sub>328</sub>		5 22.7 233°09	7°8/18.2	18		<b>299447</b>	2006 <i>BY</i> <sub>41</sub>		5 22.7 239°26	5°3/16.3	18	
4 21	16 21.33	-0 8.9	2.012	2.872	12.4	20.2	4 21	16 12.58	+ 7 11.1	4.461	5.280	6.9	20.8
5 1	16 15.71	+ 0 56.8	1.946	2.864	10.1	20.0	5 1	16 8.79	+ 7 54.6	4.403	5.278	6.0	20.7
5 11	16 8.37	+ 1 52.3	1.904	2.856	8.3	19.9	5 11	16 4.32	+ 8 30.2	4.371	5.275	5.4	20.7
5 21	16 0.02	+ 2 32.6	1.887	2.848	7.9	19.8	5 21	15 59.47	+ 8 55.9	4.365	5.272	5.4	20.6
5 31	15 51.52	+ 2 53.4	1.896	2.839	9.2	19.9	5 31	15 54.57	+ 9 10.5	4.386	5.270	5.9	20.7
6 10	15 43.74	+ 2 53.2	1.930	2.830	11.5	20.0	6 10	15 49.98	+ 9 13.1	4.431	5.267	6.8	20.8
6 20	15 37.41	+ 2 32.3	1.985	2.820	14.1	20.1	6 20	15 45.98	+ 9 4.2	4.500	5.264	7.9	20.8
6 30	15 33.07	+ 1 53.1	2.060	2.811	16.4	20.3	6 30	15 42.83	+ 8 44.5	4.588	5.262	8.9	20.9
<b>523038</b>	2016 <i>PP</i> <sub>126</sub>		5 22.7 129°46	3°8/24.9	16		<b>519985</b>	2013 <i>TB</i> <sub>168</sub>		5 22.7 290°44	2°5/23.4	17	
4 21	16 22.57	-33 11.9	2.334	3.173	11.7	21.3	4 21	16 26.03	-25 17.9	1.645	2.514	14.2	21.0
5 1	16 16.63	-33 19.5	2.260	3.175	9.0	21.1	5 1	16 19.79	-25 52.2	1.568	2.508	10.5	20.7
5 11	16 8.89	-33 14.7	2.209	3.177	6.2	20.9	5 11	16 10.98	-26 19.2	1.514	2.501	6.4	20.5
5 21	16 0.10	-32 56.6	2.184	3.179	4.1	20.8	5 21	16 0.50	-26 36.8	1.486	2.494	2.7	20.2
5 31	15 51.18	-32 26.3	2.187	3.181	4.4	20.8	5 31	15 49.59	-26 44.8	1.484	2.487	4.4	20.3
6 10	15 43.07	-31 46.8	2.218	3.183	6.8	21.0	6 10	15 39.62	-26 45.1	1.509	2.481	8.7	20.6
6 20	15 36.54	-31 2.5	2.274	3.184	9.6	21.1	6 20	15 31.72	-26 41.5	1.556	2.474	12.8	20.8
6 30	15 32.10	-30 17.8	2.353	3.186	12.2	21.3	6 30	15 26.66	-26 38.2	1.625	2.468	16.3	21.0
<b>60996</b>	2000 <i>KK</i> <sub>26</sub>		5 22.7 53°21	1°1/22.4	18		<b>175811</b>	1999 <i>RS</i> <sub>193</sub>		5 22.7 188°25	1°1/22.1	17	
4 21	16 27.71	-16 59.6	1.163	2.056	17.1	19.1	4 21	16 25.29	-19 15.9	2.045	2.914	11.9	20.4
5 1	16 21.20	-17 22.6	1.115	2.068	12.3	18.8	5 1	16 18.58	-18 43.6	1.971	2.913	8.5	20.2
5 11	16 11.74	-17 45.4	1.087	2.081	6.8	18.6	5 11	16 10.01	-18 6.5	1.921	2.912	4.7	19.9
5 21	16 0.54	-18 7.7	1.082	2.094	1.4	18.3	5 21	16 0.33	-17 26.6	1.899	2.910	1.2	19.7
5 31	15 49.24	-18 30.1	1.102	2.107	5.1	18.6	5 31	15 50.52	-16 47.0	1.906	2.907	3.9	19.9
6 10	15 39.48	-18 54.1	1.146	2.120	10.5	18.9	6 10	15 41.56	-16 11.2	1.940	2.904	7.7	20.1
6 20	15 32.41	-19 21.5	1.211	2.134	15.2	19.2	6 20	15 34.23	-15 42.5	2.000	2.899	11.3	20.3
6 30	15 28.68	-19 53.8	1.294	2.148	19.1	19.5	6 30	15 29.09	-15 23.3	2.082	2.894	14.3	20.5
<b>308554</b>	2005 <i>UZ</i> <sub>307</sub>		5 22.7 272°95	0°2/22.6	18		<b>519217</b>	2010 <i>TE</i> <sub>194</sub>		5 22.7 23			

EPHEMERIDES

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>415605</b>	2014 QX <sub>348</sub>		5 22.7 183°25	1.7°/21.9	16		<b>364145</b>	2006 DX <sub>142</sub>		5 22.7 351°35	1.6°/23.1	17	
4 21	16 25.96	-17 47.7	1.729	2.605	13.3	22.2	4 21	16 22.63	-23 17.6	1.082	1.981	17.7	20.7
5 1	16 19.32	-17 17.5	1.660	2.606	9.6	22.0	5 1	16 18.08	-23 32.8	1.020	1.975	12.9	20.4
5 11	16 10.51	-16 43.5	1.614	2.606	5.4	21.8	5 11	16 10.30	-23 39.1	0.977	1.971	7.5	20.1
5 21	16 0.42	-16 8.1	1.595	2.605	1.8	21.5	5 21	16 0.43	-23 35.9	0.956	1.967	2.0	19.7
5 31	15 50.17	-15 34.8	1.604	2.604	4.6	21.7	5 31	15 50.14	-23 24.7	0.958	1.965	5.1	19.9
6 10	15 40.92	-15 7.3	1.639	2.603	8.8	21.9	6 10	15 41.24	-23 10.1	0.982	1.963	10.8	20.2
6 20	15 33.56	-14 48.7	1.698	2.601	12.8	22.2	6 20	15 35.09	-22 57.2	1.026	1.963	16.0	20.5
6 30	15 28.71	-14 41.1	1.778	2.598	16.1	22.4	6 30	15 32.53	-22 50.7	1.087	1.963	20.3	20.8
<b>167875</b>	Kromminga		5 22.7 206°46	1.9°/23.4	17		<b>61456</b>	2000 QH <sub>30</sub>		5 22.7 301°77	0°6/22.9	18	
4 21	16 27.49	-25 22.9	1.744	2.609	13.8	20.6	4 21	16 23.31	-21 55.3	1.571	2.452	14.1	18.0
5 1	16 20.64	-25 33.2	1.667	2.605	10.2	20.3	5 1	16 17.97	-21 59.8	1.483	2.431	10.3	17.7
5 11	16 11.37	-25 34.6	1.614	2.600	6.0	20.1	5 11	16 10.06	-21 58.2	1.418	2.410	5.9	17.4
5 21	16 0.56	-25 26.3	1.586	2.596	2.2	19.8	5 21	16 0.40	-21 50.6	1.377	2.389	1.1	17.0
5 31	15 49.44	-25 9.4	1.586	2.590	4.0	19.9	5 31	15 50.18	-21 38.5	1.362	2.368	4.2	17.2
6 10	15 39.30	-24 47.1	1.613	2.584	8.3	20.2	6 10	15 40.79	-21 25.0	1.373	2.347	9.1	17.5
6 20	15 31.18	-24 23.9	1.664	2.577	12.3	20.4	6 20	15 33.37	-21 13.7	1.406	2.327	13.7	17.7
6 30	15 25.77	-24 4.1	1.736	2.570	15.8	20.6	6 30	15 28.75	-21 8.5	1.459	2.307	17.6	17.9
<b>134259</b>	2006 BG <sub>6</sub>		5 22.7 120°70	4.4°/24.9	17		<b>61281</b>	2000 OK <sub>35</sub>		5 22.7 289°07	4°5/20.8	18	
4 21	16 26.69	-33 32.3	2.024	2.862	13.2	20.6	4 21	16 23.09	-13 12.7	1.368	2.260	15.1	19.7
5 1	16 19.76	-33 48.0	1.960	2.874	10.2	20.4	5 1	16 17.90	-12 19.0	1.287	2.239	11.2	19.4
5 11	16 10.71	-33 49.5	1.919	2.886	7.1	20.2	5 11	16 10.04	-11 23.8	1.229	2.219	6.9	19.1
5 21	16 0.44	-33 35.2	1.903	2.897	4.7	20.1	5 21	16 0.39	-10 32.2	1.195	2.199	4.5	18.9
5 31	15 50.10	-33 6.1	1.915	2.908	5.0	20.2	5 31	15 50.25	-9 50.2	1.185	2.178	7.3	19.0
6 10	15 40.82	-32 26.1	1.954	2.918	7.7	20.3	6 10	15 41.05	-9 23.0	1.199	2.158	11.9	19.2
6 20	15 33.47	-31 40.3	2.019	2.928	10.7	20.5	6 20	15 33.96	-9 13.8	1.234	2.138	16.4	19.4
6 30	15 28.61	-30 54.2	2.105	2.938	13.5	20.7	6 30	15 29.79	-9 23.5	1.287	2.118	20.4	19.6
<b>507274</b>	2011 EV <sub>47</sub>		5 22.7 286°87	4°9/23.9	17		<b>36300</b>	2000 JE <sub>19</sub>		5 22.7 313°64	13°1/15.5	18	
4 21	16 27.81	-30 20.5	1.699	2.554	14.6	20.9	4 21	16 20.18	+ 6 30.8	1.425	2.285	16.5	18.2
5 1	16 21.38	-31 18.2	1.609	2.535	11.3	20.6	5 1	16 15.63	+ 8 3.3	1.356	2.261	14.5	18.1
5 11	16 12.07	-32 6.3	1.541	2.515	7.7	20.4	5 11	16 8.69	+ 9 17.4	1.308	2.237	13.3	17.9
5 21	16 0.70	-32 40.5	1.498	2.496	5.1	20.2	5 21	16 0.19	+10 3.4	1.280	2.214	13.3	17.8
5 31	15 48.58	-32 58.3	1.482	2.476	6.0	20.2	5 31	15 51.26	+10 14.3	1.274	2.191	14.9	17.9
6 10	15 37.24	-33 0.9	1.491	2.457	9.4	20.3	6 10	15 43.18	+ 9 47.7	1.287	2.169	17.3	17.9
6 20	15 28.00	-32 52.3	1.524	2.437	13.3	20.5	6 20	15 36.98	+ 8 46.0	1.318	2.147	20.1	18.1
6 30	15 21.82	-32 38.7	1.578	2.417	16.9	20.7	6 30	15 33.43	+ 7 14.8	1.364	2.126	22.8	18.2
<b>302168</b>	2001 TJ <sub>23</sub>		5 22.7 233°22	4°4/24.3	16		<b>463228</b>	2012 DA <sub>90</sub>		5 22.7 72°72	8°1/19.3	17	
4 21	16 29.55	-31 4.8	1.674	2.525	14.9	21.7	4 21	16 22.94	- 3 56.9	1.449	2.329	15.1	21.1
5 1	16 22.48	-31 29.6	1.589	2.514	11.5	21.4	5 1	16 17.20	- 2 46.8	1.402	2.338	11.8	20.9
5 11	16 12.57	-31 40.8	1.526	2.501	7.7	21.2	5 11	16 9.32	- 1 47.5	1.378	2.347	9.0	20.8
5 21	16 0.76	-31 35.4	1.489	2.488	4.7	20.9	5 21	16 0.25	- 1 5.4	1.377	2.356	8.1	20.7
5 31	15 48.43	-31 13.0	1.478	2.475	5.5	21.0	5 31	15 51.17	- 0 45.2	1.400	2.365	9.8	20.8
6 10	15 37.13	-30 37.4	1.493	2.460	9.2	21.1	6 10	15 43.25	- 0 48.6	1.447	2.375	12.8	21.0
6 20	15 28.08	-29 54.4	1.532	2.445	13.2	21.3	6 20	15 37.32	- 1 14.4	1.515	2.384	15.9	21.3
6 30	15 22.12	-29 11.3	1.591	2.430	16.8	21.5	6 30	15 33.91	- 1 59.3	1.600	2.393	18.7	21.5
<b>323366</b>	2003 WA <sub>34</sub>		5 22.7 152°47	0°8/23.1	17		<b>7858</b>	Bolotov		5 22.7 255°19	2°5/23.8	18	
4 21	16 26.68	-23 50.0	1.942	2.806	12.7	22.2	4 21	16 25.93	-27 49.8	1.900	2.758	13.1	18.2
5 1	16 19.64	-23 37.4	1.876	2.815	9.2	22.0	5 1	16 19.54	-27 52.7	1.807	2.740	9.8	17.9
5 11	16 10.60	-23 16.9	1.835	2.823	5.2	21.8	5 11	16 10.80	-27 44.7	1.738	2.721	6.1	17.7
5 21	16 0.43	-22 49.2	1.820	2.831	1.2	21.5	5 21	16 0.51	-27 24.9	1.695	2.702	2.8	17.4
5 31	15 50.19	-22 16.7	1.833	2.838	3.5	21.7	5 31	15 49.78	-26 54.4	1.680	2.682	4.1	17.4
6 10	15 40.95	-21 43.0	1.875	2.844	7.5	22.0	6 10	15 39.86	-26 16.6	1.691	2.662	8.0	17.6
6 20	15 33.53	-21 12.0	1.941	2.850	11.1	22.2	6 20	15 31.76	-25 36.5	1.728	2.641	11.9	17.8
6 30	15 28.47	-20 47.2	2.030	2.855	14.2	22.4	6 30	15 26.23	-24 59.2	1.786	2.620	15.4	18.0
<b>18160</b>	Nihon Uchu Forum		5 22.7 218°42	2°1/21.6	18		<b>25240</b>	Qiansanqiang		5 22.7 266°33	0°3/22.8	18	
4 21	16 21.49	-13 51.9	2.498	3.367	10.0	18.6	4 21	16 21.98	-22 45.9	1.978	2.850	12.1	18.5
5 1	16 15.65	-13 43.2	2.419	3.361	7.2	18.4	5 1	16 16.40	-22 25.0	1.898	2.841	8.7	18.3
5 11	16 8.32	-13 35.4	2.366	3.355	4.2	18.2	5 11	16 8.90	-21 56.9	1.842	2.833	4.9	18.0
5 21	16 0.10	-13 29.6	2.341	3.348	2.1	18.0	5 21	16 0.21	-21 22.8	1.813	2.824	0.8	17.7
5 31	15 51.71	-13 27.6	2.345	3.342	3.9	18.1	5 31	15 51.31	-20 45.3	1.811	2.815	3.4	17.9
6 10	15 43.91	-13 30.7	2.378	3.335	6.9	18.3	6 10	15 43.22	-20 8.0	1.836	2.807	7.5	18.1
6 20	15 37.33	-13 40.0	2.436	3.327	9.8	18.5	6 20	15 36.73	-19 34.7	1.886	2.798	11.2	18.3
6 30	15 32.46	-13 56.3	2.516	3.320	12.4	18.6	6 30	15 32.44	-19 8.7	1.957	2.789	14.4	18.5
<b>245668</b>	2006 AQ <sub>84</sub>		5 22.7 15°83	3°6/21.9	18		<b>107069</b>	2001 AU <sub>15</sub>		5 22.7 75°21	7°8/19.9	18	
4 21	16 24.04	-11 0.5	1.469	2.355	14.6	19.0	4 21	16 24.88	- 3 45.2	1.419	2.298	15.5	19.3
5 1	16 18.19	-11 13.6	1.410	2.358	10.7	18.8	5 1	16 18.50	- 2 50.5	1.382	2.317	12.0	19.2
5 11	16 9.98	-11 32.9	1.373	2.362	6.5	18.5	5 11	16 9.97	- 2 8.0	1.366	2.336	9.0	19.0
5 21	16 0.35	-11 59.6	1.360	2.366	3.6	18.4	5 21	16 0.35	- 1 43.2	1.374	2.356	7.9	19.0
5 31	15 50.53	-12 34.5	1.374	2.371	5.8	18.5	5 31	15 50.85	- 1 39.5	1.407	2.375	9.5	19.1
6 10	15 41.78	-13 17.7	1.412	2.377	9.9	18.8	6 10	15 42.63	- 1 57.5	1.463	2.394	12.4	19.4
6 20	15 35.08	-14 8.4	1.474	2.383	13.9	19.0	6 20	15 36.51	- 2 35.0	1.540	2.413	15.5	19.6
6 30	15 31.06	-15 5.9	1.555	2.390	17.3	19.3	6 30	15 32.97	- 3 28.8	1.636	2.432	18.2	19.8
<b>425736</b>	2011 BU <sub>83</sub>		5 22.7 351°17	2°4/23.9	17		<b>6862</b>	Virgiliomarcon		5 22.7 190°52	4°0/24.6	18	
4 21	16 21.92	-28 16.1	1.422										

EPHEMERIDES

5 22.7

5 22.7

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>494233</b>	2016 <i>NE</i> <sub>52</sub>		5 22.7 292°23	0°2/22.6	17		<b>56478</b>	2000 <i>GS</i> <sub>111</sub>		5 22.7 148°81	2°9/23.7	18	
4 21	16 21.60	-22 4.1	1.817	2.694	12.7	20.9	4 21	16 29.32	-26 52.9	1.478	2.345	15.6	19.7
5 1	16 16.27	-21 35.0	1.737	2.683	9.2	20.7	5 1	16 22.25	-27 16.2	1.413	2.351	11.6	19.4
5 11	16 8.88	-20 58.3	1.681	2.673	5.1	20.4	5 11	16 12.38	-27 28.5	1.370	2.355	7.1	19.2
5 21	16 0.22	-20 15.6	1.651	2.662	0.7	20.0	5 21	16 0.78	-27 27.9	1.353	2.360	3.2	18.9
5 31	15 51.32	-19 30.3	1.647	2.652	3.8	20.3	5 31	15 48.93	-27 15.0	1.361	2.364	4.8	19.0
6 10	15 43.27	-18 46.8	1.671	2.642	8.1	20.5	6 10	15 38.36	-26 53.8	1.395	2.367	9.2	19.3
6 20	15 36.94	-18 9.2	1.718	2.632	12.0	20.7	6 20	15 30.23	-26 29.5	1.452	2.370	13.4	19.6
6 30	15 32.95	-17 40.9	1.786	2.622	15.4	20.9	6 30	15 25.26	-26 7.7	1.529	2.373	17.1	19.8
<b>106455</b>	2000 <i>VJ</i> <sub>62</sub>		5 22.7 144°03	8°4/23.1	18		<b>414178</b>	2008 <i>CW</i>		5 22.7 154°96	0°7/23.0	15	
4 21	16 44.28	-30 41.8	1.181	2.033	19.8	19.3	4 21	16 26.70	-23 23.1	1.857	2.723	13.0	22.8
5 1	16 34.50	-33 13.4	1.120	2.041	15.5	19.0	5 1	16 19.78	-23 14.5	1.791	2.731	9.4	22.6
5 11	16 19.97	-35 34.9	1.081	2.048	11.2	18.8	5 11	16 10.76	-22 58.3	1.748	2.737	5.3	22.3
5 21	16 1.96	-37 32.1	1.067	2.055	8.5	18.7	5 21	16 0.53	-22 35.2	1.732	2.743	1.2	22.1
5 31	15 42.79	-38 54.3	1.079	2.061	9.7	18.8	5 31	15 50.19	-22 7.2	1.744	2.749	3.6	22.2
6 10	15 25.27	-39 40.7	1.115	2.066	13.5	19.0	6 10	15 40.87	-21 38.1	1.784	2.754	7.7	22.5
6 20	15 11.59	-39 59.3	1.174	2.071	17.6	19.3	6 20	15 33.43	-21 11.6	1.848	2.758	11.5	22.7
6 30	15 2.96	-40 2.1	1.250	2.075	21.3	19.5	6 30	15 28.44	-20 51.1	1.934	2.762	14.7	23.0
<b>168059</b>	2006 <i>BW</i> <sub>250</sub>		5 22.7 0°64	4°8/21.1	17		<b>259436</b>	2003 <i>SO</i> <sub>28</sub>		5 22.7 313°91	0°7/23.1	18	
4 21	16 21.49	-12 50.9	1.088	1.993	17.1	20.2	4 21	16 19.47	-23 57.0	2.362	3.228	10.6	20.1
5 1	16 16.92	-12 9.2	1.033	1.991	12.5	19.9	5 1	16 14.36	-23 40.7	2.283	3.223	7.7	19.9
5 11	16 9.50	-11 29.5	0.997	1.990	7.7	19.6	5 11	16 7.68	-23 17.7	2.228	3.217	4.4	19.7
5 21	16 0.32	-10 57.1	0.984	1.989	4.8	19.5	5 21	16 0.07	-22 48.9	2.201	3.212	1.0	19.4
5 31	15 50.92	-10 37.5	0.993	1.990	7.6	19.6	5 31	15 52.32	-22 16.4	2.202	3.207	2.9	19.5
6 10	15 42.87	-10 34.3	1.024	1.992	12.4	19.9	6 10	15 45.23	-21 43.0	2.230	3.201	6.4	19.8
6 20	15 37.31	-10 48.9	1.075	1.994	17.0	20.2	6 20	15 39.48	-21 11.9	2.285	3.196	9.5	19.9
6 30	15 34.96	-11 20.5	1.142	1.997	21.0	20.4	6 30	15 35.55	-20 45.8	2.361	3.191	12.3	20.1
<b>373752</b>	2002 <i>TW</i> <sub>144</sub>		5 22.7 248°26	0°2/22.8	17		<b>216457</b>	2009 <i>HG</i> <sub>57</sub>		5 22.7 323°15	1°7/23.1	17	
4 21	16 25.05	-22 17.6	1.828	2.699	13.0	21.6	4 21	16 23.77	-22 41.4	1.221	2.113	16.6	19.7
5 1	16 18.83	-22 1.1	1.741	2.684	9.4	21.4	5 1	16 18.89	-23 11.4	1.145	2.097	12.2	19.4
5 11	16 10.37	-21 37.0	1.678	2.668	5.3	21.1	5 11	16 10.85	-23 35.8	1.089	2.082	7.1	19.1
5 21	16 0.45	-21 6.5	1.641	2.652	0.8	20.7	5 21	16 0.60	-23 52.8	1.056	2.067	2.1	18.7
5 31	15 50.18	-20 31.9	1.631	2.636	3.8	20.9	5 31	15 49.67	-24 2.3	1.046	2.052	4.9	18.9
6 10	15 40.74	-19 57.0	1.649	2.619	8.3	21.2	6 10	15 39.82	-24 6.7	1.060	2.039	10.5	19.1
6 20	15 33.07	-19 26.2	1.691	2.602	12.3	21.4	6 20	15 32.47	-24 10.0	1.094	2.026	15.6	19.4
6 30	15 27.90	-19 3.0	1.754	2.584	15.9	21.5	6 30	15 28.61	-24 16.5	1.147	2.015	20.1	19.6
<b>245774</b>	2006 <i>GT</i> <sub>13</sub>		5 22.7 57°66	0°7/22.5	17		<b>428740</b>	2008 <i>RT</i> <sub>129</sub>		5 22.7 293°61	1°8/23.4	16	
4 21	16 23.39	-18 50.8	1.778	2.656	12.9	20.1	4 21	16 23.97	-24 47.0	1.747	2.618	13.5	21.1
5 1	16 17.46	-18 51.3	1.714	2.661	9.2	19.9	5 1	16 18.31	-25 0.9	1.656	2.597	10.0	20.8
5 11	16 9.48	-18 49.0	1.674	2.666	5.1	19.7	5 11	16 10.23	-25 7.3	1.588	2.576	5.9	20.5
5 21	16 0.31	-18 44.8	1.660	2.671	0.9	19.4	5 21	16 0.50	-25 5.3	1.546	2.555	2.1	20.2
5 31	15 50.99	-18 40.1	1.673	2.677	3.9	19.6	5 31	15 50.24	-24 55.3	1.530	2.535	4.0	20.3
6 10	15 42.62	-18 37.5	1.712	2.682	8.0	19.9	6 10	15 40.74	-24 40.2	1.540	2.514	8.4	20.5
6 20	15 36.04	-18 39.1	1.776	2.688	11.8	20.1	6 20	15 33.09	-24 23.7	1.575	2.493	12.6	20.7
6 30	15 31.81	-18 46.8	1.861	2.693	15.0	20.3	6 30	15 28.07	-24 10.2	1.629	2.472	16.3	20.9
<b>459518</b>	2013 <i>EB</i> <sub>82</sub>		5 22.7 162°76	3°5/21.3	16		<b>518623</b>	2008 <i>CQ</i> <sub>218</sub>		5 22.7 331°32	1°1/22.1	16	
4 21	16 26.40	-14 3.3	1.554	2.435	14.3	21.9	4 21	16 19.88	-18 33.5	2.138	3.015	11.1	21.4
5 1	16 19.73	-13 21.6	1.492	2.440	10.3	21.7	5 1	16 14.72	-18 9.5	2.065	3.012	7.9	21.2
5 11	16 10.78	-12 39.5	1.454	2.444	6.2	21.4	5 11	16 7.90	-17 42.2	2.017	3.009	4.4	21.0
5 21	16 0.50	-12 0.8	1.441	2.447	3.5	21.3	5 21	16 0.12	-17 13.4	1.995	3.006	1.2	20.8
5 31	15 50.12	-11 29.7	1.455	2.450	5.9	21.4	5 31	15 52.19	-16 45.7	2.002	3.004	3.6	20.9
6 10	15 40.86	-11 9.9	1.495	2.453	10.1	21.7	6 10	15 44.99	-16 21.9	2.035	3.001	7.2	21.2
6 20	15 33.65	-11 3.3	1.557	2.455	14.0	21.9	6 20	15 39.21	-16 4.5	2.093	2.999	10.6	21.4
6 30	15 29.09	-11 10.7	1.639	2.456	17.4	22.1	6 30	15 35.35	-15 55.3	2.173	2.997	13.4	21.5
<b>488223</b>	2016 <i>AT</i> <sub>5</sub>		5 22.7 268°08	5°4/17.0	18		<b>78093</b>	2002 <i>LZ</i> <sub>31</sub>		5 22.7 269°65	5°4/19.8	18	
4 21	16 13.83	+ 8 58.9	4.539	5.347	7.0	20.3	4 21	16 21.82	- 6 4.5	2.176	3.043	11.3	19.6
5 1	16 9.68	+ 9 22.8	4.476	5.340	6.1	20.3	5 1	16 16.17	- 5 23.5	2.087	3.020	8.7	19.4
5 11	16 4.84	+ 9 37.9	4.439	5.334	5.5	20.2	5 11	16 8.78	- 4 47.5	2.023	2.996	6.3	19.2
5 21	15 59.61	+ 9 42.9	4.427	5.328	5.4	20.2	5 21	16 0.26	- 4 20.3	1.986	2.972	5.4	19.1
5 31	15 54.34	+ 9 36.4	4.442	5.322	5.9	20.2	5 31	15 51.44	- 4 5.2	1.975	2.947	6.9	19.1
6 10	15 49.37	+ 9 18.3	4.482	5.316	6.8	20.3	6 10	15 43.18	- 4 4.5	1.992	2.922	9.7	19.3
6 20	15 45.00	+ 8 49.2	4.545	5.309	7.8	20.4	6 20	15 36.23	- 4 18.8	2.032	2.897	12.6	19.4
6 30	15 41.48	+ 8 10.0	4.629	5.303	8.8	20.4	6 30	15 31.18	- 4 47.5	2.092	2.871	15.3	19.5
<b>353953</b>	1999 <i>SC</i> <sub>21</sub>		5 22.7 290°18	4°7/24.9	18		<b>136948</b>	1998 <i>QO</i> <sub>106</sub>		5 22.7 278°49	2°9/23.7	18	
4 21	16 23.33	-34 9.3	2.228	3.064	12.2	20.8	4 21	16 26.16	-26 46.1	1.592	2.461	14.7	19.9
5 1	16 17.50	-34 35.2	2.138	3.050	9.6	20.6	5 1	16 20.09	-27 10.8	1.509	2.447	11.0	19.6
5 11	16 9.60	-34 48.7	2.072	3.036	6.9	20.4	5 11	16 11.30	-27 26.0	1.447	2.432	6.8	19.3
5 21	16 0.36	-34 47.6	2.032	3.022	4.9	20.3	5 21	16 0.66	-27 29.8	1.411	2.418	3.2	19.1
5 31	15 50.77	-34 31.8	2.019	3.008	5.2	20.2	5 31	15 49.49	-27 22.0	1.400	2.403	4.7	19.1
6 10	15 41.90	-34 3.6	2.033	2.994	7.6	20.4	6 10	15 39.25	-27 5.6	1.415	2.388	9.0	19.4
6 20	15 34.66	-33 27.2	2.071	2.981	10.5	20.5	6 20	15 31.14	-26 45.3	1.454	2.374	13.4	19.6
6 30	15 29.72	-32 47.8	2.132	2.967	13.3	20.7	6 30	15 26.00	-26 26.4	1.512	2.359	17.1	19.8
<b>354790</b>	2005 <i>UX</i> <sub>299</sub>		5 22.7 314°73	1°1/23.2	18		<b>166504</b>	2002 <i>QY</i> <sub>20</sub>					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>363419</b>	2003 QV <sub>110</sub>		5 22.7 262°29	1°7/22.1	18		<b>170941</b>	2005 AO <sub>48</sub>		5 22.7 192°15	1°5/22.1	16	
4 21	16 26.00	-17 17.6	1.677	2.554	13.6	21.2	4 21	16 26.00	-18 1.8	1.769	2.644	13.1	21.5
5 1	16 19.74	-17 0.8	1.587	2.533	9.9	21.0	5 1	16 19.39	-17 35.3	1.698	2.643	9.4	21.3
5 11	16 11.02	-16 41.0	1.520	2.511	5.6	20.7	5 11	16 10.64	-17 5.0	1.650	2.641	5.3	21.0
5 21	16 0.63	-16 19.8	1.479	2.489	1.8	20.4	5 21	16 0.58	-16 33.0	1.628	2.639	1.6	20.8
5 31	15 49.73	-16 0.0	1.465	2.466	4.8	20.5	5 31	15 50.35	-16 2.4	1.634	2.636	4.4	21.0
6 10	15 39.59	-15 45.0	1.477	2.442	9.4	20.7	6 10	15 41.06	-15 37.0	1.667	2.632	8.7	21.2
6 20	15 31.31	-15 37.9	1.512	2.418	13.8	20.9	6 20	15 33.62	-15 19.6	1.725	2.628	12.6	21.4
6 30	15 25.68	-15 40.9	1.568	2.394	17.6	21.1	6 30	15 28.65	-15 12.5	1.803	2.623	15.9	21.6
<b>173880</b>	2001 UQ <sub>44</sub>		5 22.7 246°24	1°8/23.5	18		<b>119366</b>	2001 SZ <sub>252</sub>		5 22.7 88°68	4°5/20.4	18	
4 21	16 23.85	-25 21.0	2.266	3.124	11.3	20.1	4 21	16 23.10	-11 31.0	1.700	2.581	13.2	19.4
5 1	16 17.67	-25 43.9	2.183	3.117	8.3	19.9	5 1	16 17.08	-10 28.5	1.652	2.597	9.7	19.2
5 11	16 9.63	-26 0.5	2.125	3.110	5.0	19.7	5 11	16 9.20	-9 28.4	1.628	2.613	6.2	19.0
5 21	16 0.41	-26 10.0	2.094	3.102	2.1	19.5	5 21	16 0.35	-8 35.3	1.630	2.629	4.5	19.0
5 31	15 50.90	-26 12.5	2.092	3.095	3.4	19.6	5 31	15 51.56	-7 53.8	1.659	2.645	6.5	19.1
6 10	15 42.06	-26 9.8	2.118	3.087	6.8	19.8	6 10	15 43.83	-7 27.0	1.713	2.660	9.8	19.3
6 20	15 34.70	-26 4.5	2.169	3.079	10.0	20.0	6 20	15 37.89	-7 16.1	1.791	2.676	13.1	19.6
6 30	15 29.42	-25 59.6	2.243	3.071	12.9	20.1	6 30	15 34.22	-7 20.8	1.888	2.691	15.9	19.8
<b>481839</b>	2008 WS <sub>45</sub>		5 22.7 161°20	0°4/23.1	18		<b>455312</b>	2002 GK <sub>35</sub>		5 22.7 0°57	1°9/22.0	17	
4 21	16 16.66	-23 21.7	4.138	4.991	6.7	23.3	4 21	16 17.76	-19 9.2	0.957	1.872	17.9	20.2
5 1	16 11.78	-23 9.0	4.063	4.997	4.8	23.1	5 1	16 14.61	-18 32.9	0.904	1.868	12.9	19.9
5 11	16 6.05	-22 52.5	4.015	5.002	2.7	23.0	5 11	16 8.38	-17 49.4	0.869	1.866	7.2	19.6
5 21	15 59.85	-22 33.0	3.996	5.007	0.6	22.8	5 21	16 0.26	-17 3.2	0.854	1.866	2.0	19.3
5 31	15 53.62	-22 11.6	4.008	5.012	1.8	22.9	5 31	15 51.90	-16 20.7	0.861	1.867	6.0	19.5
6 10	15 47.77	-21 49.6	4.049	5.016	3.9	23.1	6 10	15 44.99	-15 48.3	0.889	1.870	11.8	19.8
6 20	15 42.67	-21 28.6	4.118	5.020	5.9	23.2	6 20	15 40.75	-15 30.6	0.936	1.874	17.0	20.1
6 30	15 38.63	-21 10.0	4.213	5.024	7.6	23.4	6 30	15 39.89	-15 29.5	0.999	1.880	21.3	20.4
<b>102320</b>	1999 TF <sub>104</sub>		5 22.7 315°55	1°4/22.1	18		<b>475175</b>	2005 UJ <sub>460</sub>		5 22.7 241°93	0°8/23.2	18	
4 21	16 20.95	-20 13.0	1.246	2.143	15.9	18.9	4 21	16 21.75	-23 28.2	2.833	3.689	9.3	22.3
5 1	16 16.64	-19 29.8	1.166	2.123	11.6	18.6	5 1	16 15.87	-23 31.3	2.739	3.674	6.8	22.1
5 11	16 9.49	-18 36.9	1.107	2.102	6.5	18.2	5 11	16 8.53	-23 29.6	2.672	3.659	3.9	21.9
5 21	16 0.42	-17 37.6	1.071	2.083	1.6	17.8	5 21	16 0.28	-23 23.1	2.632	3.643	1.0	21.7
5 31	15 50.83	-16 37.7	1.060	2.064	5.4	18.0	5 31	15 51.79	-23 12.7	2.622	3.626	2.6	21.8
6 10	15 42.28	-15 44.1	1.071	2.045	11.0	18.3	6 10	15 43.79	-23 0.1	2.642	3.610	5.7	22.0
6 20	15 36.05	-15 3.0	1.103	2.028	16.2	18.5	6 20	15 36.92	-22 47.5	2.688	3.592	8.5	22.1
6 30	15 32.97	-14 38.6	1.152	2.011	20.6	18.7	6 30	15 31.66	-22 37.1	2.758	3.575	11.1	22.3
<b>166320</b>	2002 JZ <sub>65</sub>		5 22.7 41°54	0°9/22.5	18		<b>433159</b>	2012 TN <sub>255</sub>		5 22.7 292°58	0°7/23.1	16	
4 21	16 26.75	-17 19.3	1.239	2.130	16.4	18.9	4 21	16 22.24	-25 5.4	1.790	2.662	13.1	20.7
5 1	16 20.51	-17 44.4	1.186	2.139	11.8	18.6	5 1	16 16.93	-24 25.7	1.696	2.639	9.6	20.4
5 11	16 11.45	-18 9.1	1.155	2.148	6.6	18.4	5 11	16 9.40	-23 33.8	1.627	2.617	5.6	20.1
5 21	16 0.69	-18 33.0	1.147	2.158	1.2	18.0	5 21	16 0.43	-22 31.3	1.583	2.594	1.2	19.7
5 31	15 49.76	-18 56.6	1.164	2.169	4.8	18.3	5 31	15 51.10	-21 22.0	1.566	2.572	3.8	19.9
6 10	15 40.22	-19 21.2	1.205	2.180	10.1	18.6	6 10	15 42.59	-20 11.6	1.576	2.549	8.3	20.1
6 20	15 33.20	-19 48.5	1.268	2.191	14.7	18.9	6 20	15 35.85	-19 6.1	1.611	2.527	12.5	20.3
6 30	15 29.38	-20 20.3	1.350	2.202	18.5	19.2	6 30	15 31.59	-18 10.6	1.666	2.504	16.2	20.5
<b>378357</b>	2007 KS <sub>3</sub>		5 22.7 339°25	0°2/22.8	18		<b>504602</b>	2008 UH <sub>134</sub>		5 22.7 227°47	1°4/23.4	17	
4 21	16 24.98	-18 20.4	1.367	2.255	15.4	19.8	4 21	16 24.35	-24 36.7	2.041	2.905	12.1	22.0
5 1	16 19.42	-19 10.3	1.293	2.244	11.2	19.5	5 1	16 18.15	-24 45.4	1.962	2.899	8.9	21.8
5 11	16 11.01	-20 1.3	1.241	2.234	6.3	19.2	5 11	16 9.95	-24 47.0	1.906	2.894	5.2	21.5
5 21	16 0.66	-20 51.8	1.213	2.225	1.0	18.8	5 21	16 0.50	-24 41.2	1.878	2.888	1.7	21.3
5 31	15 49.73	-21 40.1	1.211	2.217	4.5	19.0	5 31	15 50.79	-24 29.1	1.877	2.881	3.5	21.4
6 10	15 39.78	-22 26.0	1.234	2.209	9.7	19.3	6 10	15 41.86	-24 13.1	1.904	2.875	7.3	21.6
6 20	15 32.08	-23 10.4	1.279	2.203	14.4	19.6	6 20	15 34.58	-23 56.5	1.956	2.868	10.8	21.8
6 30	15 27.51	-23 55.0	1.343	2.197	18.4	19.8	6 30	15 29.56	-23 42.8	2.030	2.861	13.9	22.0
<b>86100</b>	1999 RH <sub>107</sub>		5 22.7 288°72	3°1/21.0	18		<b>426876</b>	2013 WS <sub>35</sub>		5 22.7 316°37	5°7/25.1	17	
4 21	16 19.75	-12 26.2	2.215	3.092	10.8	20.0	4 21	16 23.48	-34 2.7	1.438	2.299	16.4	19.9
5 1	16 14.63	-11 56.1	2.133	3.077	7.9	19.7	5 1	16 18.51	-34 16.1	1.355	2.282	12.9	19.6
5 11	16 7.90	-11 27.0	2.075	3.062	4.9	19.5	5 11	16 10.56	-34 10.4	1.293	2.265	9.1	19.3
5 21	16 0.16	-11 1.5	2.043	3.047	3.1	19.4	5 21	16 0.62	-33 42.6	1.253	2.249	6.1	19.1
5 31	15 52.20	-10 42.1	2.040	3.032	4.9	19.5	5 31	15 50.17	-32 53.3	1.238	2.234	6.5	19.1
6 10	15 44.84	-10 31.4	2.064	3.017	8.0	19.6	6 10	15 40.86	-31 47.8	1.246	2.219	10.0	19.3
6 20	15 38.78	-10 30.7	2.111	3.002	11.2	19.8	6 20	15 33.99	-30 34.4	1.277	2.205	14.2	19.5
6 30	15 34.55	-10 40.7	2.181	2.987	13.9	20.0	6 30	15 30.41	-29 22.0	1.327	2.191	18.1	19.7
<b>343645</b>	2010 JL <sub>72</sub>		5 22.7 88°11	5°5/19.5	18		<b>214171</b>	2005 CE <sub>52</sub>		5 22.7 147°14	3°3/21.2	18	
4 21	16 20.48	-7 4.2	2.009	2.883	11.8	20.7	4 21	16 25.62	-13 44.9	1.799	2.674	12.9	21.2
5 1	16 15.03	-6 0.1	1.957	2.894	8.9	20.6	5 1	16 18.92	-13 2.5	1.739	2.683	9.3	21.0
5 11	16 8.02	-5 1.5	1.930	2.905	6.4	20.4	5 11	16 10.27	-12 20.1	1.704	2.692	5.6	20.8
5 21	16 0.16	-4 12.7	1.929	2.915	5.5	20.4	5 21	16 0.54	-11 41.1	1.696	2.701	3.3	20.6
5 31	15 52.30	-3 37.7	1.955	2.925	7.0	20.5	5 31	15 50.77	-11 9.2	1.715	2.708	5.4	20.8
6 10	15 45.27	-3 18.6	2.006	2.936	9.7	20.7	6 10	15 42.01	-10 47.6	1.761	2.715	9.1	21.0
6 20	15 39.71	-3 15.9	2.081	2.946	12.4	20.9	6 20	15 35.04	-10 38.0	1.831	2.722	12.6	21.2
6 30	15 36.06	-3 28.8	2.176	2.956	14.8	21.1	6 30	15 30.39	-10 41.1	1.922	2.728	15.6	21.5
<b>87273</b>	2000 PP <sub>7</sub>		5 22.7 299°16	3°1/23.4	18		<b>497062</b>	2003 UO <sub>32</sub>		5 22.7 292°65	2°8/23.5	17	
4 21	16 28.06	-25 47.7</											



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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>330128</b>	2005 <i>YT</i> <sub>81</sub>		5 22.7 281°72	1°1/23.3	18		<b>250311</b>	2003 <i>QG</i> <sub>80</sub>		5 22.8 228°94	0°9/22.3	17	
4 21	16 24.29	-24 47.9	1.798	2.667	13.2	20.7	4 21	16 26.30	-19 9.6	1.850	2.721	12.8	21.7
5 1	16 18.52	-24 33.7	1.700	2.641	9.8	20.4	5 1	16 19.71	-18 52.0	1.766	2.710	9.3	21.4
5 11	16 10.37	-24 9.6	1.626	2.615	5.7	20.1	5 11	16 10.92	-18 29.9	1.706	2.697	5.2	21.1
5 21	16 0.61	-23 35.8	1.577	2.588	1.6	19.8	5 21	16 0.72	-18 4.7	1.673	2.684	1.1	20.8
5 31	15 50.33	-22 54.4	1.555	2.560	3.8	19.9	5 31	15 50.19	-17 38.8	1.668	2.671	4.1	21.0
6 10	15 40.80	-22 9.6	1.560	2.533	8.4	20.1	6 10	15 40.48	-17 15.6	1.690	2.656	8.4	21.2
6 20	15 33.05	-21 26.5	1.589	2.505	12.7	20.3	6 20	15 32.53	-16 58.4	1.736	2.641	12.4	21.4
6 30	15 27.87	-20 49.9	1.639	2.477	16.4	20.4	6 30	15 27.02	-16 49.9	1.804	2.625	15.8	21.6
<b>294771</b>	2008 <i>CT</i> <sub>33</sub>		5 22.7 323°99	1°7/21.9	16		<b>62617</b>	2000 <i>SW</i> <sub>344</sub>		5 22.8 145°40	7°6/19.8	18	
4 21	16 20.52	-16 10.9	2.135	3.011	11.1	21.1	4 21	16 23.86	-0 14.0	1.867	2.726	13.3	19.0
5 1	16 15.20	-15 53.6	2.063	3.009	8.0	20.9	5 1	16 17.64	+0 19.2	1.810	2.730	10.6	18.8
5 11	16 8.22	-15 35.3	2.015	3.006	4.5	20.7	5 11	16 9.59	+0 39.9	1.776	2.733	8.4	18.7
5 21	16 0.25	-15 17.6	1.995	3.004	1.8	20.5	5 21	16 0.51	+0 44.2	1.767	2.736	7.6	18.7
5 31	15 52.13	-15 2.8	2.002	3.002	3.9	20.7	5 31	15 51.33	+0 29.6	1.784	2.739	8.8	18.7
6 10	15 44.72	-14 53.1	2.036	3.000	7.4	20.9	6 10	15 43.02	-0 4.3	1.826	2.742	11.2	18.9
6 20	15 38.73	-14 50.2	2.095	2.998	10.7	21.1	6 20	15 36.34	-0 55.4	1.890	2.744	13.9	19.1
6 30	15 34.66	-14 55.3	2.176	2.996	13.5	21.3	6 30	15 31.81	-2 0.8	1.975	2.746	16.3	19.3
<b>523688</b>	2014 <i>DK</i> <sub>143</sub>		5 22.7 90°78	0°3/20.4	18		<b>41210</b>	1999 <i>WN</i> <sub>18</sub>		5 22.8 240°41	5°8/19.9	18	
4 21	16 1.14	-9 20.9	42.695	43.561	0.7	22.0	4 21	16 25.10	-6 8.6	1.938	2.804	12.5	19.1
5 1	16 0.47	-9 17.7	42.629	43.565	0.5	21.9	5 1	16 18.70	-5 23.0	1.855	2.787	9.6	18.9
5 11	15 59.73	-9 14.7	42.590	43.569	0.3	21.9	5 11	16 10.31	-4 42.9	1.796	2.770	6.9	18.7
5 21	15 58.97	-9 12.1	42.579	43.573	0.3	21.9	5 21	16 0.63	-4 12.6	1.764	2.751	5.9	18.6
5 31	15 58.20	-9 9.9	42.597	43.577	0.3	21.9	5 31	15 50.63	-3 56.0	1.759	2.732	7.5	18.7
6 10	15 57.45	-9 8.2	42.644	43.581	0.5	21.9	6 10	15 41.33	-3 55.4	1.781	2.712	10.6	18.8
6 20	15 56.76	-9 7.1	42.717	43.585	0.7	22.0	6 20	15 33.58	-4 11.4	1.825	2.691	13.8	18.9
6 30	15 56.13	-9 6.7	42.814	43.589	0.9	22.0	6 30	15 28.02	-4 43.1	1.890	2.669	16.7	19.1
<b>292229</b>	2006 <i>SL</i> <sub>60</sub>		5 22.7 228°74	2°8/21.4	18		<b>245508</b>	2005 <i>RJ</i> <sub>24</sub>		5 22.8 259°86	3°5/24.7	18	
4 21	16 24.76	-14 18.3	1.903	2.777	12.4	21.5	4 21	16 23.47	-32 44.1	2.641	3.473	10.7	21.1
5 1	16 18.46	-13 47.8	1.822	2.767	9.0	21.2	5 1	16 17.38	-32 56.3	2.541	3.453	8.3	20.9
5 11	16 10.15	-13 16.6	1.766	2.755	5.3	21.0	5 11	16 9.52	-32 57.8	2.466	3.433	5.7	20.7
5 21	16 0.56	-12 47.3	1.737	2.743	2.8	20.8	5 21	16 0.51	-32 47.4	2.418	3.412	3.8	20.5
5 31	15 50.71	-12 23.2	1.736	2.731	5.1	20.9	5 31	15 51.19	-32 25.4	2.398	3.391	4.1	20.5
6 10	15 41.63	-12 7.1	1.761	2.718	8.9	21.1	6 10	15 42.45	-31 53.9	2.407	3.370	6.5	20.6
6 20	15 34.19	-12 1.3	1.810	2.704	12.5	21.3	6 20	15 35.05	-31 16.5	2.442	3.348	9.2	20.8
6 30	15 29.01	-12 6.9	1.881	2.690	15.7	21.5	6 30	15 29.59	-30 37.3	2.500	3.325	11.8	20.9
<b>54674</b>	2000 <i>XN</i> <sub>4</sub>		5 22.8 143°72	3°6/25.8	18		<b>315393</b>	2007 <i>VH</i> <sub>114</sub>		5 22.8 171°14	0°9/22.3	17	
4 21	16 24.01	-36 24.4	2.710	3.527	10.9	18.6	4 21	16 26.44	-19 5.1	1.852	2.723	12.8	22.2
5 1	16 17.42	-35 52.4	2.633	3.534	8.5	18.4	5 1	16 19.63	-18 46.9	1.783	2.727	9.2	21.9
5 11	16 9.32	-35 5.8	2.582	3.541	6.0	18.3	5 11	16 10.77	-18 24.5	1.739	2.730	5.1	21.7
5 21	16 0.43	-34 5.0	2.558	3.548	4.0	18.2	5 21	16 0.70	-17 59.5	1.721	2.733	1.1	21.4
5 31	15 51.61	-32 52.2	2.563	3.554	4.0	18.2	5 31	15 50.48	-17 34.5	1.732	2.734	4.0	21.6
6 10	15 43.64	-31 31.8	2.597	3.560	6.0	18.3	6 10	15 41.23	-17 12.8	1.769	2.736	8.1	21.9
6 20	15 37.16	-30 8.6	2.659	3.566	8.5	18.5	6 20	15 33.78	-16 57.1	1.832	2.736	11.9	22.1
6 30	15 32.59	-28 47.9	2.746	3.571	10.9	18.6	6 30	15 28.71	-16 49.9	1.915	2.736	15.1	22.3
<b>174456</b>	2002 <i>XT</i> <sub>87</sub>		5 22.8 224°36	4°9/25.6	18		<b>322635</b>	1998 <i>ST</i> <sub>30</sub>		5 22.8 295°83	6°6/19.3	18	
4 21	16 25.41	-37 2.7	2.546	3.362	11.5	20.8	4 21	16 21.89	-8 53.7	1.488	2.376	14.4	20.2
5 1	16 18.82	-37 19.4	2.457	3.353	9.2	20.6	5 1	16 16.96	-7 36.0	1.403	2.348	11.0	19.9
5 11	16 10.31	-37 22.4	2.391	3.343	6.9	20.4	5 11	16 9.58	-6 19.2	1.340	2.321	7.8	19.6
5 21	16 0.61	-37 9.9	2.352	3.333	5.1	20.3	5 21	16 0.55	-5 10.1	1.301	2.293	6.6	19.5
5 31	15 50.66	-36 42.0	2.340	3.322	5.2	20.3	5 31	15 51.01	-4 15.9	1.287	2.266	8.9	19.5
6 10	15 41.45	-36 1.3	2.356	3.311	7.1	20.4	6 10	15 42.24	-3 42.2	1.297	2.238	12.8	19.7
6 20	15 33.80	-35 12.0	2.398	3.299	9.6	20.5	6 20	15 35.33	-3 31.8	1.327	2.210	16.9	19.8
6 30	15 28.29	-34 19.5	2.464	3.287	12.0	20.7	6 30	15 31.09	-3 44.5	1.375	2.183	20.5	20.0
<b>32825</b>	1992 <i>CK</i> <sub>3</sub>		5 22.8 165°18	0°4/22.6	18		<b>456173</b>	2006 <i>HC</i> <sub>26</sub>		5 22.8 346°03	2°7/21.7	17	
4 21	16 26.74	-21 18.9	1.632	2.507	14.1	18.9	4 21	16 19.98	-17 39.8	1.080	1.987	17.0	20.9
5 1	16 20.06	-20 52.1	1.566	2.511	10.1	18.6	5 1	16 16.06	-16 56.7	1.017	1.978	12.3	20.6
5 11	16 11.06	-20 18.0	1.523	2.514	5.6	18.4	5 11	16 9.21	-16 7.9	0.975	1.971	7.0	20.2
5 21	16 0.72	-19 38.5	1.506	2.517	0.9	18.0	5 21	16 0.49	-15 18.3	0.955	1.965	2.7	20.0
5 31	15 50.25	-18 57.2	1.516	2.520	4.1	18.3	5 31	15 51.44	-14 34.0	0.957	1.960	6.3	20.1
6 10	15 40.90	-18 18.6	1.552	2.522	8.7	18.6	6 10	15 43.69	-14 1.2	0.981	1.956	11.7	20.4
6 20	15 33.60	-17 46.9	1.613	2.523	12.8	18.8	6 20	15 38.44	-13 44.2	1.024	1.953	16.8	20.7
6 30	15 28.97	-17 25.4	1.694	2.524	16.3	19.0	6 30	15 36.46	-13 44.6	1.084	1.951	21.0	21.0
<b>308522</b>	2005 <i>UC</i> <sub>65</sub>		5 22.8 327°84	6°5/27.4	18		<b>63057</b>	2000 <i>WB</i> <sub>112</sub>		5 22.8 294°35	3°4/23.8	18	
4 21	16 24.07	-41 36.8	1.976	2.788	14.5	19.5	4 21	16 26.21	-27 17.0	1.385	2.260	16.1	18.6
5 1	16 18.22	-41 16.5	1.891	2.779	11.9	19.3	5 1	16 20.56	-27 45.9	1.303	2.244	12.1	18.4
5 11	16 10.06	-40 33.2	1.827	2.771	9.2	19.1	5 11	16 11.82	-28 4.1	1.241	2.227	7.7	18.1
5 21	16 0.56	-39 25.4	1.787	2.762	7.0	19.0	5 21	16 0.92	-28 8.9	1.204	2.210	3.8	17.8
5 31	15 50.97	-37 55.1	1.773	2.754	6.6	18.9	5 31	15 49.35	-28 0.0	1.191	2.194	5.3	17.8
6 10	15 42.53	-36 8.2	1.786	2.746	8.5	19.0	6 10	15 38.79	-27 40.5	1.202	2.177	10.0	18.0
6 20	15 36.17	-34 13.1	1.824	2.739	11.4	19.2	6 20	15 30.65	-27 16.1	1.235	2.161	14.7	18.3
6 30	15 32.45	-32 18.5	1.886	2.732	14.3	19.4	6 30	15 25.88	-26 53.1	1.288	2.145	18.9	18.5
<b>509511</b>	2007 <i>VA</i> <sub>143</sub>		5 22.8 253°67	0°8/22.3	18		<b>499588</b>	2010 <i>TX</i> <sub>55</sub>		5 22.			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>499359</b>	2009 YX		5 22.8 152°28	0°5/23.0	17		<b>30704</b>	Phegeus		5 22.8 304°81	2°5/24.9	18	
4 21	16 24.21	-23 33.4	2.143	3.006	11.6	22.0	4 21	16 16.63	-33 15.4	4.317	5.141	7.0	18.5
5 1	16 17.82	-23 10.9	2.074	3.013	8.4	21.8	5 1	16 11.92	-33 31.0	4.233	5.138	5.4	18.3
5 11	16 9.68	-22 41.0	2.031	3.020	4.7	21.5	5 11	16 6.27	-33 39.9	4.175	5.136	3.8	18.2
5 21	16 0.55	-22 5.1	2.015	3.026	0.9	21.3	5 21	16 0.05	-33 41.9	4.144	5.133	2.7	18.1
5 31	15 51.36	-21 25.6	2.027	3.032	3.2	21.5	5 31	15 53.73	-33 37.0	4.143	5.131	2.8	18.1
6 10	15 43.03	-20 46.1	2.068	3.037	6.9	21.7	6 10	15 47.76	-33 26.6	4.170	5.128	4.2	18.2
6 20	15 36.30	-20 10.1	2.134	3.042	10.3	21.9	6 20	15 42.55	-33 11.9	4.225	5.126	5.8	18.3
6 30	15 31.65	-19 40.9	2.223	3.046	13.2	22.1	6 30	15 38.44	-32 55.1	4.305	5.124	7.4	18.5
<b>509777</b>	2008 UN <sub>123</sub>		5 22.8 265°57	1°0/23.4	18		<b>394724</b>	2008 EV <sub>111</sub>		5 22.8 113°59	0°7/23.2	17	
4 21	16 23.09	-26 17.7	1.960	2.824	12.5	20.9	4 21	16 22.29	-23 18.5	2.481	3.342	10.3	22.0
5 1	16 17.35	-25 36.9	1.872	2.810	9.2	20.6	5 1	16 16.28	-23 19.2	2.416	3.353	7.5	21.8
5 11	16 9.57	-24 44.0	1.808	2.796	5.4	20.4	5 11	16 8.78	-23 14.6	2.377	3.365	4.2	21.6
5 21	16 0.55	-23 40.6	1.771	2.781	1.5	20.1	5 21	16 0.43	-23 5.0	2.365	3.376	1.1	21.4
5 31	15 51.31	-22 30.1	1.761	2.766	3.5	20.2	5 31	15 52.03	-22 51.7	2.383	3.387	2.8	21.5
6 10	15 42.90	-21 18.0	1.779	2.751	7.6	20.4	6 10	15 44.34	-22 36.8	2.429	3.398	6.0	21.8
6 20	15 36.19	-20 9.9	1.823	2.736	11.5	20.6	6 20	15 38.00	-22 22.8	2.501	3.409	9.0	22.0
6 30	15 31.77	-19 10.6	1.888	2.721	14.8	20.8	6 30	15 33.45	-22 11.9	2.596	3.419	11.5	22.1
<b>336354</b>	2008 TF <sub>168</sub>		5 22.8 275°90	4°8/21.2	18		<b>162607</b>	2000 SV <sub>80</sub>		5 22.8 200°83	0°6/22.5	17	
4 21	16 24.69	-7 26.9	1.862	2.733	12.8	20.2	4 21	16 26.68	-20 17.0	1.864	2.734	12.8	21.3
5 1	16 18.52	-7 20.8	1.780	2.717	9.6	20.0	5 1	16 19.91	-19 57.6	1.787	2.730	9.2	21.1
5 11	16 10.27	-7 21.9	1.721	2.701	6.5	19.7	5 11	16 11.00	-19 32.6	1.735	2.726	5.1	20.8
5 21	16 0.67	-7 32.7	1.689	2.685	4.8	19.6	5 21	16 0.79	-19 3.4	1.709	2.721	0.9	20.5
5 31	15 50.70	-7 55.1	1.684	2.669	6.5	19.7	5 31	15 50.35	-18 32.8	1.711	2.715	3.9	20.7
6 10	15 41.44	-8 29.9	1.705	2.653	9.8	19.8	6 10	15 40.81	-18 4.2	1.741	2.708	8.2	20.9
6 20	15 33.76	-9 16.5	1.750	2.636	13.3	20.0	6 20	15 33.07	-17 41.2	1.795	2.701	12.0	21.2
6 30	15 28.36	-10 13.7	1.815	2.620	16.4	20.2	6 30	15 27.75	-17 26.5	1.871	2.692	15.3	21.4
<b>91129</b>	1998 HT <sub>135</sub>		5 22.8 6°11	3°7/20.8	17		<b>63640</b>	2001 QM <sub>94</sub>		5 22.8 199°93	1°5/22.1	18	
4 21	16 20.88	-14 27.6	1.582	2.470	13.6	19.1	4 21	16 26.74	-18 25.5	1.652	2.529	13.8	20.3
5 1	16 15.85	-13 23.2	1.520	2.470	9.9	18.9	5 1	16 20.12	-17 54.9	1.580	2.526	10.0	20.1
5 11	16 8.74	-12 17.2	1.481	2.471	6.0	18.7	5 11	16 11.18	-17 19.6	1.531	2.523	5.6	19.8
5 21	16 0.42	-11 14.4	1.467	2.472	3.7	18.5	5 21	16 0.83	-16 41.9	1.508	2.519	1.6	19.5
5 31	15 52.01	-10 20.4	1.480	2.473	6.1	18.7	5 31	15 50.25	-16 5.5	1.512	2.514	4.6	19.7
6 10	15 44.59	-9 39.8	1.517	2.474	10.0	18.9	6 10	15 40.69	-15 34.5	1.543	2.509	9.1	20.0
6 20	15 39.01	-9 15.3	1.577	2.476	13.8	19.1	6 20	15 33.11	-15 12.6	1.597	2.503	13.3	20.2
6 30	15 35.82	-9 7.6	1.656	2.478	17.0	19.4	6 30	15 28.15	-15 1.9	1.672	2.496	16.8	20.4
<b>375723</b>	2009 QM <sub>38</sub>		5 22.8 148°75	0°5/22.5	17		<b>290376</b>	2005 SL <sub>284</sub>		5 22.8 316°43	5°4/19.6	17	
4 21	16 24.48	-21 14.4	2.017	2.885	12.0	21.4	4 21	16 19.08	-6 18.7	2.164	3.037	11.2	20.9
5 1	16 18.05	-20 38.3	1.951	2.893	8.6	21.1	5 1	16 14.13	-5 26.4	2.098	3.033	8.5	20.7
5 11	16 9.82	-19 55.9	1.910	2.901	4.8	20.9	5 11	16 7.65	-4 39.4	2.056	3.030	6.2	20.6
5 21	16 0.58	-19 9.4	1.897	2.908	0.8	20.6	5 21	16 0.28	-4 1.6	2.041	3.026	5.4	20.5
5 31	15 51.31	-18 22.0	1.911	2.915	3.5	20.9	5 31	15 52.80	-3 36.5	2.053	3.023	6.8	20.6
6 10	15 42.96	-17 37.8	1.954	2.921	7.4	21.1	6 10	15 45.99	-3 26.1	2.090	3.019	9.3	20.7
6 20	15 36.26	-17 0.3	2.022	2.926	10.9	21.3	6 20	15 40.49	-3 30.9	2.151	3.016	12.0	20.9
6 30	15 31.73	-16 32.2	2.112	2.931	13.9	21.6	6 30	15 36.78	-3 50.1	2.231	3.013	14.4	21.1
<b>346442</b>	2008 TO <sub>2</sub>		5 22.8 296°09	15°3/7.0	17		<b>351944</b>	2006 TF <sub>72</sub>		5 22.8 201°22	4°1/25.2	18	
4 21	16 20.41	+16 9.9	1.753	2.560	16.2	20.2	4 21	16 24.33	-34 59.7	2.658	3.481	10.9	21.8
5 1	16 15.59	+18 45.5	1.696	2.535	15.5	20.1	5 1	16 17.93	-35 16.1	2.574	3.478	8.6	21.6
5 11	16 8.69	+20 59.2	1.660	2.510	15.4	20.0	5 11	16 9.81	-35 20.7	2.515	3.474	6.2	21.5
5 21	16 0.44	+22 41.0	1.645	2.484	16.1	20.0	5 21	16 0.63	-35 12.0	2.483	3.470	4.4	21.4
5 31	15 51.82	+23 43.6	1.650	2.459	17.5	20.1	5 31	15 51.25	-34 50.4	2.479	3.466	4.6	21.4
6 10	15 43.91	+24 4.7	1.671	2.433	19.2	20.1	6 10	15 42.57	-34 18.2	2.503	3.461	6.5	21.5
6 20	15 37.62	+23 46.2	1.707	2.408	20.9	20.2	6 20	15 35.32	-33 39.1	2.553	3.456	9.0	21.6
6 30	15 33.63	+22 53.2	1.755	2.383	22.6	20.3	6 30	15 30.05	-32 57.6	2.626	3.450	11.4	21.8
<b>421393</b>	2013 VD		5 22.8 124°28	1°2/21.6	18		<b>12813</b>	Paolapaolini		5 22.8 82°26	4°7/24.9	18	
4 21	16 13.72	-14 40.7	4.461	5.327	6.0	20.9	4 21	16 26.18	-33 12.3	1.898	2.742	13.8	18.2
5 1	16 9.71	-14 27.7	4.388	5.329	4.3	20.7	5 1	16 19.68	-33 40.6	1.834	2.751	10.7	18.0
5 11	16 4.98	-14 14.8	4.343	5.331	2.5	20.6	5 11	16 10.91	-33 54.9	1.793	2.760	7.4	17.8
5 21	15 59.85	-14 2.8	4.326	5.333	1.2	20.5	5 21	16 0.80	-33 53.2	1.776	2.770	5.0	17.7
5 31	15 54.66	-13 52.9	4.339	5.335	2.3	20.6	5 31	15 50.53	-33 35.7	1.787	2.779	5.4	17.7
6 10	15 49.79	-13 45.9	4.381	5.337	4.1	20.7	6 10	15 41.33	-33 5.9	1.824	2.788	8.1	17.9
6 20	15 45.53	-13 42.7	4.450	5.338	5.8	20.8	6 20	15 34.12	-32 28.9	1.885	2.798	11.2	18.1
6 30	15 42.16	-13 43.6	4.544	5.340	7.4	21.0	6 30	15 29.50	-31 50.5	1.968	2.807	14.0	18.3
<b>501800</b>	2014 WE <sub>24</sub>		5 22.8 205°17	2°2/23.9	17		<b>346572</b>	2008 VT <sub>34</sub>		5 22.8 200°92	0°8/22.4	18	
4 21	16 27.01	-28 4.5	1.886	2.742	13.3	22.2	4 21	16 24.15	-17 57.2	2.456	3.320	10.3	21.9
5 1	16 20.22	-27 49.9	1.806	2.738	9.9	22.0	5 1	16 17.70	-17 56.1	2.375	3.315	7.4	21.7
5 11	16 11.20	-27 22.9	1.749	2.733	6.1	21.8	5 11	16 9.65	-17 53.2	2.321	3.311	4.1	21.5
5 21	16 0.81	-26 43.8	1.719	2.727	2.5	21.5	5 21	16 0.61	-17 49.1	2.294	3.305	1.0	21.2
5 31	15 50.21	-25 54.6	1.717	2.720	3.9	21.6	5 31	15 51.38	-17 45.1	2.297	3.300	3.2	21.4
6 10	15 40.58	-25 0.2	1.742	2.713	7.8	21.8	6 10	15 42.78	-17 42.8	2.329	3.293	6.6	21.6
6 20	15 32.86	-24 6.0	1.792	2.705	11.6	22.0	6 20	15 35.49	-17 44.0	2.387	3.286	9.7	21.8
6 30	15 27.68	-23 17.3	1.864	2.697	15.0	22.2	6 30	15 30.03	-17 50.1	2.469	3.279	12.4	22.0
<b>141033</b>	2001 WS <sub>63</sub>		5 22.8 233°18	0°1/22.8	16		<b>251480</b>	2008 DT <sub>57</sub>		5 22.8 176°00	2°0/24.1	18	
4 21	16 21.35	-21 42.2	2.307	3.175	10.8	21.							

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>118028</b>	2283 <i>T</i> <sub>-2</sub>		5 22.8 291°49	0°2/22.7	17		<b>91093</b>	1998 <i>GS</i>		5 22.8 273°66	6°0/24.6	18	
4 21	16 24.62	-21 25.9	1.353	2.240	15.6	20.1	4 21	16 28.59	-34 14.8	1.854	2.692	14.3	18.9
5 1	16 19.31	-21 11.5	1.269	2.220	11.4	19.8	5 1	16 21.90	-35 15.8	1.768	2.679	11.4	18.7
5 11	16 11.09	-20 49.2	1.206	2.200	6.5	19.4	5 11	16 12.46	-36 4.2	1.705	2.667	8.4	18.5
5 21	16 0.88	-20 19.8	1.168	2.179	1.0	19.0	5 21	16 1.12	-36 35.6	1.668	2.654	6.2	18.3
5 31	15 50.06	-19 46.4	1.154	2.159	4.7	19.2	5 31	15 49.14	-36 47.6	1.657	2.641	6.7	18.3
6 10	15 40.21	-19 14.1	1.164	2.139	10.3	19.4	6 10	15 38.00	-36 41.6	1.671	2.628	9.3	18.4
6 20	15 32.63	-18 47.9	1.196	2.119	15.3	19.7	6 20	15 28.92	-36 22.3	1.710	2.615	12.5	18.6
6 30	15 28.23	-18 32.2	1.246	2.099	19.7	19.9	6 30	15 22.79	-35 56.1	1.769	2.602	15.6	18.8
<b>522774</b>	2016 <i>NX</i> <sub>76</sub>		5 22.8 212°20	1°4/23.6	17		<b>99368</b>	2001 <i>XE</i> <sub>221</sub>		5 22.8 345°91	0°4/23.1	18	
4 21	16 22.76	-26 10.3	2.199	3.059	11.5	21.7	4 21	16 14.13	-23 18.3	4.340	5.197	6.3	19.7
5 1	16 16.91	-25 57.3	2.121	3.056	8.4	21.5	5 1	16 10.07	-23 4.2	4.261	5.197	4.5	19.5
5 11	16 9.26	-25 35.4	2.067	3.053	5.0	21.3	5 11	16 5.24	-22 46.8	4.208	5.196	2.6	19.4
5 21	16 0.56	-25 5.2	2.040	3.049	1.8	21.1	5 21	15 59.96	-22 26.6	4.185	5.196	0.6	19.2
5 31	15 51.69	-24 28.6	2.041	3.046	3.2	21.2	5 31	15 54.62	-22 4.8	4.191	5.196	1.7	19.3
6 10	15 43.60	-23 49.0	2.070	3.042	6.7	21.4	6 10	15 49.63	-21 42.7	4.227	5.195	3.7	19.5
6 20	15 37.04	-23 10.4	2.125	3.037	10.1	21.6	6 20	15 45.31	-21 21.5	4.290	5.195	5.6	19.6
6 30	15 32.54	-22 36.2	2.202	3.033	13.0	21.8	6 30	15 41.94	-21 2.8	4.378	5.195	7.3	19.7
<b>413387</b>	2004 <i>QS</i> <sub>18</sub>		5 22.8 322°26	4°8/24.1	17		<b>425750</b>	2011 <i>BO</i> <sub>118</sub>		5 22.8 98°54	2°9/23.9	17	
4 21	16 21.87	-28 59.2	1.046	1.939	18.6	20.7	4 21	16 26.74	-27 51.4	1.702	2.564	14.2	21.3
5 1	16 18.21	-29 27.6	0.967	1.915	14.3	20.3	5 1	16 20.16	-28 9.3	1.639	2.573	10.6	21.1
5 11	16 10.90	-29 40.7	0.905	1.892	9.4	20.0	5 11	16 11.23	-28 16.3	1.600	2.582	6.6	20.9
5 21	16 0.89	-29 34.6	0.864	1.870	5.2	19.7	5 21	16 0.90	-28 11.1	1.585	2.591	3.2	20.7
5 31	15 49.93	-29 8.7	0.845	1.849	6.5	19.7	5 31	15 50.41	-27 54.9	1.598	2.600	4.4	20.8
6 10	15 40.15	-28 27.8	0.846	1.829	11.8	19.9	6 10	15 41.06	-27 31.0	1.636	2.608	8.1	21.0
6 20	15 33.29	-27 40.3	0.867	1.810	17.4	20.1	6 20	15 33.79	-27 4.3	1.699	2.617	11.9	21.3
6 30	15 30.54	-26 55.6	0.903	1.793	22.3	20.3	6 30	15 29.23	-26 39.6	1.783	2.625	15.1	21.5
<b>62578</b>	2000 <i>SA</i> <sub>280</sub>		5 22.8 264°22	8°0/18.9	18		<b>393049</b>	2013 <i>AR</i> <sub>38</sub>		5 22.8 138°30	4°4/20.4	18	
4 21	16 23.52	+ 0 24.1	1.956	2.812	12.9	19.5	4 21	16 20.34	- 7 15.7	2.347	3.215	10.6	20.9
5 1	16 17.58	+ 1 8.9	1.877	2.793	10.5	19.3	5 1	16 14.92	- 6 46.2	2.283	3.218	7.9	20.7
5 11	16 9.72	+ 1 42.5	1.821	2.774	8.6	19.1	5 11	16 8.07	- 6 21.8	2.244	3.220	5.5	20.5
5 21	16 0.64	+ 2 0.0	1.790	2.754	8.0	19.0	5 21	16 0.40	- 6 5.1	2.232	3.223	4.4	20.5
5 31	15 51.25	+ 1 57.7	1.786	2.734	9.3	19.1	5 31	15 52.65	- 5 58.5	2.248	3.225	5.8	20.6
6 10	15 42.52	+ 1 34.2	1.805	2.713	11.8	19.2	6 10	15 45.55	- 6 3.2	2.290	3.227	8.2	20.7
6 20	15 35.27	+ 0 50.5	1.848	2.692	14.6	19.3	6 20	15 39.71	- 6 19.4	2.357	3.229	10.8	20.9
6 30	15 30.14	- 0 10.7	1.909	2.671	17.1	19.4	6 30	15 35.56	- 6 46.6	2.446	3.231	13.2	21.1
<b>11115</b>	<i>Kariya</i>		5 22.8 174°51	1°0/23.3	18		<b>426314</b>	2012 <i>TD</i> <sub>243</sub>		5 22.8 335°83	2°8/21.5	17	
4 21	16 22.16	-24 9.6	2.693	3.549	9.8	19.5	4 21	16 21.17	-14 55.4	1.766	2.650	12.7	20.8
5 1	16 16.18	-24 11.4	2.617	3.551	7.1	19.4	5 1	16 15.99	-14 21.5	1.698	2.646	9.2	20.6
5 11	16 8.76	-24 7.7	2.566	3.553	4.1	19.2	5 11	16 8.85	-13 46.8	1.652	2.643	5.4	20.3
5 21	16 0.48	-23 58.6	2.544	3.554	1.2	19.0	5 21	16 0.54	-13 14.2	1.633	2.640	2.8	20.2
5 31	15 52.08	-23 45.2	2.551	3.555	2.7	19.1	5 31	15 52.05	-12 47.2	1.640	2.637	5.1	20.3
6 10	15 44.29	-23 29.5	2.587	3.555	5.7	19.3	6 10	15 44.42	-12 29.0	1.673	2.634	8.9	20.5
6 20	15 37.73	-23 13.8	2.649	3.556	8.6	19.5	6 20	15 38.47	-12 21.7	1.729	2.632	12.5	20.7
6 30	15 32.87	-23 0.5	2.735	3.555	11.0	19.6	6 30	15 34.75	-12 26.2	1.806	2.630	15.7	20.9
<b>214459</b>	2005 <i>SX</i> <sub>114</sub>		5 22.8 186°13	3°6/24.8	17		<b>203690</b>	2002 <i>NK</i> <sub>53</sub>		5 22.8 265°92	2°4/21.6	17	
4 21	16 23.53	-32 34.4	2.556	3.390	10.9	20.9	4 21	16 22.47	-14 43.5	2.137	3.010	11.3	21.0
5 1	16 17.38	-32 54.5	2.477	3.390	8.4	20.7	5 1	16 16.78	-14 19.9	2.047	2.991	8.2	20.8
5 11	16 9.51	-33 4.0	2.423	3.390	5.8	20.5	5 11	16 9.29	-13 55.5	1.982	2.971	4.8	20.6
5 21	16 0.60	-33 1.7	2.395	3.389	3.9	20.4	5 21	16 0.63	-13 32.5	1.944	2.951	2.4	20.4
5 31	15 51.50	-32 48.0	2.396	3.388	4.2	20.4	5 31	15 51.65	-13 13.4	1.934	2.931	4.5	20.5
6 10	15 43.10	-32 25.1	2.425	3.387	6.5	20.6	6 10	15 43.28	-13 0.9	1.951	2.910	8.0	20.6
6 20	15 36.12	-31 56.3	2.480	3.386	9.1	20.7	6 20	15 36.30	-12 56.7	1.993	2.889	11.5	20.8
6 30	15 31.10	-31 25.6	2.558	3.385	11.5	20.9	6 30	15 31.32	-13 2.3	2.057	2.868	14.5	21.0
<b>173945</b>	2001 <i>WY</i> <sub>65</sub>		5 22.8 95°06	0°4/23.0	17		<b>490694</b>	2010 <i>NU</i> <sub>30</sub>		5 22.8 260°69	4°5/25.0	18	
4 21	16 21.64	-22 53.0	2.181	3.049	11.3	20.9	4 21	16 24.69	-35 5.9	2.677	3.498	10.8	22.0
5 1	16 16.04	-22 40.6	2.112	3.053	8.1	20.7	5 1	16 18.37	-35 36.4	2.578	3.480	8.6	21.9
5 11	16 8.75	-22 22.0	2.067	3.057	4.6	20.5	5 11	16 10.19	-35 56.0	2.504	3.461	6.3	21.7
5 21	16 0.49	-21 58.4	2.050	3.061	0.9	20.2	5 21	16 0.77	-36 2.5	2.457	3.442	4.6	21.5
5 31	15 52.13	-21 31.6	2.060	3.065	3.1	20.4	5 31	15 50.97	-35 55.5	2.438	3.422	4.9	21.5
6 10	15 44.54	-21 4.6	2.098	3.069	6.7	20.6	6 10	15 41.74	-35 36.4	2.447	3.402	6.8	21.6
6 20	15 38.43	-20 40.4	2.161	3.073	10.0	20.9	6 20	15 33.87	-35 8.7	2.482	3.382	9.3	21.7
6 30	15 34.30	-20 21.6	2.247	3.076	12.8	21.1	6 30	15 28.01	-34 36.4	2.540	3.361	11.8	21.9
<b>428277</b>	2007 <i>ED</i> <sub>34</sub>		5 22.8 323°37	10°4/26.6	17		<b>350027</b>	2010 <i>JH</i> <sub>121</sub>		5 22.8 207°72	4°4/20.2	18	
4 21	16 28.50	-43 22.3	1.577	2.391	17.5	21.1	4 21	16 21.12	- 6 54.8	2.498	3.363	10.2	21.1
5 1	16 22.48	-44 33.1	1.502	2.382	14.9	20.9	5 1	16 15.45	- 6 22.0	2.426	3.358	7.7	20.9
5 11	16 13.02	-45 21.5	1.446	2.373	12.4	20.7	5 11	16 8.38	- 5 53.9	2.379	3.353	5.4	20.7
5 21	16 1.20	-45 40.8	1.412	2.365	10.6	20.6	5 21	16 0.48	- 5 33.2	2.359	3.347	4.4	20.7
5 31	15 48.72	-45 27.6	1.400	2.358	10.5	20.6	5 31	15 52.45	- 5 22.3	2.367	3.342	5.7	20.7
6 10	15 37.53	-44 45.0	1.412	2.351	12.2	20.6	6 10	15 45.00	- 5 22.7	2.403	3.335	8.1	20.9
6 20	15 29.16	-43 40.8	1.445	2.344	14.8	20.8	6 20	15 38.74	- 5 34.7	2.463	3.329	10.7	21.0
6 30	15 24.53	-42 25.3	1.497	2.337	17.6	20.9	6 30	15 34.11	- 5 58.0	2.546	3.322	13.0	21.2
<b>173465</b>	2000 <i>QX</i> <sub>168</sub>		5 22.8 251°50	4°6/25.3	18		<b>245143</b>	2004 <i>RR</i> <sub>257</sub>					

EPHEMERIDES

5 22.8

5 22.8

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>330492</b>	2007 <i>HM</i> <sub>1</sub>		5 22.8 359°63	6°0/19.5 17			<b>118004</b>	1192 <i>T</i> <sub>-2</sub>		5 22.8 264°03	1°5/23.5 18		
4 21	16 19.14	-11 24.3	1.363	2.260	14.8	19.7	4 21	16 24.04	-25 6.4	1.823	2.691	13.1	19.7
5 1	16 14.86	-9 49.6	1.305	2.258	11.0	19.4	5 1	16 18.17	-25 6.6	1.748	2.688	9.6	19.5
5 11	16 8.33	-8 15.5	1.270	2.256	7.4	19.2	5 11	16 10.15	-24 58.2	1.698	2.685	5.7	19.2
5 21	16 0.49	-6 49.7	1.259	2.256	6.0	19.1	5 21	16 0.79	-24 41.2	1.673	2.682	1.9	19.0
5 31	15 52.53	-5 39.9	1.273	2.256	8.4	19.3	5 31	15 51.20	-24 17.4	1.675	2.679	3.7	19.1
6 10	15 45.66	-4 51.8	1.310	2.257	12.1	19.5	6 10	15 42.53	-23 50.0	1.703	2.677	7.8	19.3
6 20	15 40.76	-4 27.5	1.367	2.259	15.9	19.7	6 20	15 35.67	-23 23.2	1.756	2.674	11.6	19.6
6 30	15 38.43	-4 26.3	1.442	2.262	19.1	19.9	6 30	15 31.26	-23 0.9	1.831	2.671	14.9	19.8
<b>468894</b>	2013 <i>YR</i> <sub>29</sub>		5 22.8 263°35	1°1/22.4 18			<b>305794</b>	2009 <i>DW</i> <sub>81</sub>		5 22.8 335°59	0°9/22.4 16		
4 21	16 24.52	-18 21.1	1.874	2.748	12.5	21.6	4 21	16 21.13	-18 45.3	1.882	2.761	12.3	20.6
5 1	16 18.53	-18 11.2	1.786	2.731	9.1	21.3	5 1	16 15.96	-18 35.1	1.808	2.756	8.8	20.4
5 11	16 10.39	-17 58.3	1.721	2.713	5.1	21.1	5 11	16 8.87	-18 21.7	1.758	2.750	4.9	20.1
5 21	16 0.83	-17 43.4	1.684	2.695	1.2	20.8	5 21	16 0.59	-18 6.5	1.734	2.746	1.1	19.9
5 31	15 50.87	-17 28.7	1.673	2.676	4.0	20.9	5 31	15 52.10	-17 51.8	1.737	2.741	3.8	20.0
6 10	15 41.64	-17 16.8	1.690	2.658	8.3	21.1	6 10	15 44.40	-17 40.1	1.767	2.737	7.8	20.3
6 20	15 34.06	-17 10.5	1.731	2.639	12.3	21.3	6 20	15 38.30	-17 33.8	1.821	2.733	11.5	20.5
6 30	15 28.83	-17 12.1	1.793	2.619	15.7	21.5	6 30	15 34.40	-17 34.9	1.895	2.729	14.7	20.7
<b>463672</b>	2014 <i>OR</i> <sub>32</sub>		5 22.8 150°61	2°8/23.9 16			<b>478137</b>	2011 <i>UK</i> <sub>136</sub>		5 22.8 227°01	0°3/22.6 17		
4 21	16 29.03	-27 29.7	1.450	2.318	15.9	21.9	4 21	16 20.79	-21 35.4	2.581	3.446	9.9	21.5
5 1	16 22.18	-27 38.8	1.385	2.323	11.8	21.7	5 1	16 15.27	-21 2.3	2.497	3.438	7.1	21.3
5 11	16 12.52	-27 35.2	1.342	2.327	7.3	21.4	5 11	16 8.31	-20 23.5	2.439	3.429	3.9	21.1
5 21	16 1.15	-27 17.8	1.324	2.331	3.2	21.2	5 21	16 0.50	-19 40.8	2.409	3.421	0.6	20.8
5 31	15 49.57	-26 48.1	1.331	2.335	4.7	21.3	5 31	15 52.55	-18 56.6	2.408	3.412	2.9	21.0
6 10	15 39.30	-26 11.2	1.364	2.338	9.2	21.5	6 10	15 45.21	-18 13.9	2.436	3.402	6.2	21.2
6 20	15 31.49	-25 33.0	1.420	2.341	13.5	21.8	6 20	15 39.09	-17 35.7	2.490	3.393	9.2	21.3
6 30	15 26.83	-24 59.6	1.496	2.343	17.3	22.0	6 30	15 34.65	-17 4.6	2.567	3.383	11.8	21.5
<b>423403</b>	2005 <i>LM</i> <sub>35</sub>		5 22.8 311°20	4°7/21.2 17			<b>89782</b>	2002 <i>AM</i> <sub>108</sub>		5 22.8 316°06	6°3/26.5 17		
4 21	16 22.76	-11 7.0	1.401	2.292	14.9	21.1	4 21	16 24.12	-39 43.4	2.151	2.967	13.4	19.4
5 1	16 17.68	-10 39.1	1.327	2.277	11.1	20.8	5 1	16 18.26	-40 0.4	2.070	2.961	10.9	19.2
5 11	16 10.07	-10 14.8	1.274	2.262	7.1	20.5	5 11	16 10.20	-39 59.9	2.011	2.955	8.4	19.1
5 21	16 0.79	-9 58.0	1.245	2.248	4.7	20.3	5 21	16 0.80	-39 39.7	1.977	2.950	6.6	18.9
5 31	15 51.09	-9 52.7	1.241	2.234	7.0	20.4	5 31	15 51.17	-38 59.8	1.968	2.944	6.5	18.9
6 10	15 42.31	-10 1.5	1.260	2.220	11.3	20.6	6 10	15 42.48	-38 4.0	1.985	2.939	8.3	19.0
6 20	15 35.57	-10 25.4	1.301	2.207	15.6	20.8	6 20	15 35.65	-36 57.8	2.028	2.934	10.8	19.2
6 30	15 31.63	-11 3.8	1.360	2.195	19.3	21.1	6 30	15 31.30	-35 47.9	2.092	2.929	13.4	19.3
<b>249093</b>	2007 <i>VT</i> <sub>158</sub>		5 22.8 260°07	1°9/22.0 17			<b>156368</b>	2001 <i>XR</i> <sub>252</sub>		5 22.8 10°63	5°6/20.9 18		
4 21	16 25.40	-17 34.4	1.584	2.465	14.1	21.2	4 21	16 22.68	-8 0.2	1.483	2.369	14.6	19.2
5 1	16 19.44	-17 6.5	1.501	2.449	10.2	20.9	5 1	16 17.29	-7 35.1	1.425	2.370	10.9	19.0
5 11	16 11.01	-16 34.5	1.441	2.433	5.8	20.6	5 11	16 9.67	-7 17.5	1.389	2.371	7.4	18.8
5 21	16 0.94	-16 0.8	1.406	2.416	2.0	20.3	5 21	16 0.72	-7 11.0	1.377	2.373	5.6	18.7
5 31	15 50.44	-15 28.9	1.398	2.399	5.0	20.4	5 31	15 51.61	-7 18.8	1.390	2.376	7.4	18.8
6 10	15 40.83	-15 3.1	1.415	2.382	9.7	20.7	6 10	15 43.52	-7 41.9	1.427	2.379	11.0	19.0
6 20	15 33.17	-14 46.8	1.455	2.364	14.1	20.9	6 20	15 37.38	-8 19.7	1.486	2.382	14.6	19.3
6 30	15 28.22	-14 42.6	1.515	2.346	17.9	21.1	6 30	15 33.79	-9 10.4	1.564	2.386	17.8	19.5
<b>290847</b>	2005 <i>WE</i> <sub>31</sub>		5 22.8 233°20	1°2/23.3 16			<b>485973</b>	2012 <i>JJ</i>		5 22.8 322°01	21°0/ 7.2 18		
4 21	16 28.24	-24 17.2	1.571	2.442	14.7	22.2	4 21	16 21.34	+13 50.8	0.981	1.840	22.4	20.2
5 1	16 21.59	-24 11.9	1.490	2.431	10.8	22.0	5 1	16 17.08	+17 22.6	0.951	1.833	21.3	20.0
5 11	16 12.24	-23 56.9	1.431	2.420	6.3	21.7	5 11	16 9.83	+20 18.2	0.939	1.827	21.1	20.0
5 21	16 1.13	-23 32.1	1.397	2.408	1.7	21.3	5 21	16 0.76	+22 20.9	0.942	1.821	22.1	20.0
5 31	15 49.59	-22 59.6	1.390	2.395	4.2	21.5	5 31	15 51.47	+23 21.0	0.961	1.816	23.8	20.1
6 10	15 39.06	-22 23.8	1.409	2.382	9.1	21.7	6 10	15 43.60	+23 18.4	0.993	1.811	25.9	20.3
6 20	15 30.70	-21 49.9	1.451	2.368	13.6	22.0	6 20	15 38.31	+22 20.7	1.035	1.806	28.0	20.4
6 30	15 25.29	-21 22.9	1.514	2.353	17.5	22.2	6 30	15 36.30	+20 38.6	1.086	1.802	29.9	20.6
<b>478263</b>	2011 <i>UT</i> <sub>401</sub>		5 22.8 282°02	1°7/23.5 17			<b>75844</b>	Rexadams		5 22.8 191°58	2°1/21.7 18		
4 21	16 23.72	-24 37.2	2.182	3.044	11.5	21.2	4 21	16 22.42	-15 21.5	2.190	3.062	11.1	20.1
5 1	16 17.76	-25 2.0	2.098	3.034	8.5	21.0	5 1	16 16.58	-14 58.8	2.117	3.061	8.0	19.9
5 11	16 9.87	-25 21.0	2.039	3.025	5.1	20.8	5 11	16 9.09	-14 35.3	2.070	3.060	4.6	19.7
5 21	16 0.75	-25 33.4	2.007	3.015	1.9	20.5	5 21	16 0.63	-14 12.9	2.050	3.058	2.1	19.5
5 31	15 51.31	-25 39.3	2.003	3.006	3.4	20.6	5 31	15 52.02	-13 54.2	2.059	3.057	4.1	19.7
6 10	15 42.53	-25 40.4	2.026	2.997	6.9	20.8	6 10	15 44.13	-13 41.3	2.095	3.055	7.5	19.9
6 20	15 35.24	-25 39.1	2.075	2.987	10.3	21.0	6 20	15 37.66	-13 36.0	2.156	3.052	10.7	20.1
6 30	15 30.08	-25 38.2	2.146	2.978	13.3	21.2	6 30	15 33.10	-13 39.5	2.239	3.050	13.5	20.3
<b>161409</b>	2003 <i>UG</i> <sub>234</sub>		5 22.8 254°71	1°3/23.4 18			<b>505880</b>	2015 <i>DR</i> <sub>120</sub>		5 22.8 140°35	0°6/22.6 17		
4 21	16 23.97	-24 48.1	2.133	2.995	11.7	20.2	4 21	16 24.72	-18 53.2	1.878	2.751	12.6	20.9
5 1	16 17.97	-24 49.3	2.044	2.981	8.6	20.0	5 1	16 18.49	-18 56.1	1.810	2.754	9.0	20.7
5 11	16 10.00	-24 43.2	1.979	2.966	5.1	19.8	5 11	16 10.26	-18 56.3	1.766	2.757	5.0	20.5
5 21	16 0.77	-24 29.6	1.941	2.951	1.6	19.5	5 21	16 0.82	-18 54.3	1.748	2.760	0.9	20.2
5 31	15 51.22	-24 9.8	1.932	2.936	3.3	19.6	5 31	15 51.20	-18 51.7	1.759	2.763	3.7	20.4
6 10	15 42.36	-23 46.4	1.949	2.920	7.1	19.8	6 10	15 42.46	-18 50.5	1.796	2.765	7.8	20.6
6 20	15 35.04	-23 22.8	1.992	2.904	10.7	20.0	6 20	15 35.45	-18 53.0	1.858	2.768	11.5	20.9
6 30	15 29.88	-23 2.6	2.058	2.888	13.8	20.2	6 30	15 30.73	-19 1.0	1.941	2.770	14.6	21.1
<b>202975</b>	1999 <i>TT</i> <sub>121</sub>		5 22.8 216°42	0°2/22.9 18			<b>479944</b>	2014 <i>HZ</i> <sub>155</sub>		5			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>62755</b>	2000 <i>UF</i> <sub>8</sub>		5 22.8 132°14	0°8/22.5	18		<b>147179</b>	2002 <i>VN</i> <sub>49</sub>		5 22.8 176°38	1°7/22.0	17	
4 21	16 25.50	-20 54.0	1.517	2.398	14.6	18.8	4 21	16 25.63	-16 13.6	2.187	3.054	11.3	21.0
5 1	16 19.34	-20 18.9	1.454	2.402	10.5	18.6	5 1	16 18.88	-15 57.5	2.116	3.057	8.1	20.8
5 11	16 10.81	-19 36.5	1.414	2.407	5.8	18.3	5 11	16 10.38	-15 40.1	2.070	3.059	4.6	20.6
5 21	16 0.91	-18 49.3	1.399	2.411	1.1	18.0	5 21	16 0.87	-15 22.8	2.051	3.060	1.7	20.4
5 31	15 50.90	-18 1.5	1.411	2.415	4.4	18.2	5 31	15 51.22	-15 7.8	2.062	3.061	3.9	20.6
6 10	15 42.06	-17 18.2	1.448	2.419	9.1	18.5	6 10	15 42.35	-14 57.3	2.101	3.061	7.4	20.8
6 20	15 35.34	-16 43.9	1.509	2.423	13.3	18.8	6 20	15 34.97	-14 53.2	2.165	3.060	10.7	21.0
6 30	15 31.35	-16 21.6	1.589	2.426	16.9	19.0	6 30	15 29.63	-14 56.7	2.252	3.059	13.5	21.2
<b>36229</b>	1999 <i>UE</i> <sub>13</sub>		5 22.8 289°40	2°0/21.7	18		<b>398595</b>	2011 <i>WY</i> <sub>91</sub>		5 22.8 186°18	4°1/20.4	18	
4 21	16 19.91	-16 12.3	2.220	3.096	10.8	18.8	4 21	16 20.70	-5 35.9	2.924	3.781	9.1	21.5
5 1	16 14.84	-15 40.5	2.139	3.085	7.8	18.6	5 1	16 14.99	-5 17.9	2.854	3.781	6.9	21.4
5 11	16 8.16	-15 6.6	2.084	3.075	4.5	18.3	5 11	16 8.10	-5 5.2	2.810	3.780	4.9	21.2
5 21	16 0.50	-14 33.1	2.056	3.064	2.0	18.1	5 21	16 0.51	-4 59.6	2.793	3.779	4.1	21.2
5 31	15 52.66	-14 2.6	2.056	3.054	4.0	18.3	5 31	15 52.84	-5 2.8	2.806	3.777	5.1	21.3
6 10	15 45.45	-13 38.2	2.082	3.044	7.4	18.4	6 10	15 45.67	-5 15.6	2.847	3.775	7.2	21.4
6 20	15 39.57	-13 21.9	2.134	3.033	10.7	18.6	6 20	15 39.51	-5 37.9	2.913	3.773	9.4	21.5
6 30	15 35.54	-13 15.2	2.208	3.023	13.5	18.8	6 30	15 34.77	-6 9.1	3.002	3.770	11.4	21.7
<b>1858</b>	Lobachevskij		5 22.8 318°37	0°6/23.0	18	R	<b>474760</b>	2005 <i>QR</i> <sub>54</sub>		5 22.8 287°17	2°6/21.4	18	
4 21	16 22.52	-23 7.0	1.690	2.568	13.5	16.0	4 21	16 20.67	-14 18.0	2.164	3.040	11.0	21.0
5 1	16 17.20	-22 53.1	1.615	2.561	9.8	15.7	5 1	16 15.50	-13 45.8	2.074	3.019	8.0	20.7
5 11	16 9.66	-22 31.1	1.564	2.555	5.6	15.5	5 11	16 8.61	-13 12.8	2.009	2.998	4.8	20.5
5 21	16 0.75	-22 2.1	1.537	2.548	1.1	15.1	5 21	16 0.62	-12 41.4	1.970	2.976	2.6	20.3
5 31	15 51.57	-21 28.8	1.537	2.542	3.8	15.3	5 31	15 52.33	-12 14.6	1.960	2.955	4.6	20.4
6 10	15 43.33	-20 55.2	1.562	2.537	8.2	15.6	6 10	15 44.63	-11 55.3	1.977	2.934	8.0	20.6
6 20	15 36.95	-20 25.4	1.612	2.531	12.3	15.8	6 20	15 38.26	-11 45.5	2.018	2.913	11.4	20.7
6 30	15 33.07	-20 3.2	1.682	2.526	15.8	16.0	6 30	15 33.80	-11 46.4	2.080	2.891	14.4	20.9
<b>193698</b>	2001 <i>FR</i> <sub>45</sub>		5 22.8 95°04	6°0/25.5	18		<b>250413</b>	2003 <i>UJ</i> <sub>275</sub>		5 22.8 181°72	0°3/22.9	17	
4 21	16 28.80	-36 38.9	2.000	2.825	13.9	19.9	4 21	16 26.69	-22 23.8	1.912	2.778	12.7	21.8
5 1	16 21.61	-37 24.6	1.939	2.840	11.1	19.7	5 1	16 19.92	-22 9.5	1.839	2.779	9.2	21.6
5 11	16 12.06	-37 54.6	1.901	2.854	8.3	19.5	5 11	16 11.07	-21 48.3	1.790	2.780	5.2	21.3
5 21	16 1.12	-38 5.7	1.888	2.868	6.3	19.5	5 21	16 0.99	-21 21.2	1.768	2.780	0.9	21.0
5 31	15 50.00	-37 57.6	1.902	2.882	6.4	19.5	5 31	15 50.74	-20 50.3	1.775	2.779	3.5	21.2
6 10	15 39.98	-37 33.3	1.942	2.895	8.4	19.6	6 10	15 41.41	-20 19.4	1.808	2.778	7.7	21.5
6 20	15 32.02	-36 58.1	2.006	2.909	11.1	19.8	6 20	15 33.87	-19 52.2	1.867	2.776	11.5	21.7
6 30	15 26.76	-36 18.2	2.093	2.922	13.7	20.0	6 30	15 28.71	-19 31.8	1.948	2.773	14.7	21.9
<b>73101</b>	2002 <i>GZ</i> <sub>21</sub>		5 22.8 2°94	1°2/23.2	18		<b>503570</b>	2016 <i>GK</i> <sub>11</sub>		5 22.8 180°25	4°8/24.7	17	
4 21	16 25.41	-22 49.2	1.294	2.181	16.2	18.9	4 21	16 29.21	-32 20.9	1.627	2.477	15.3	21.7
5 1	16 19.80	-23 3.2	1.231	2.180	11.8	18.7	5 1	16 22.29	-32 42.9	1.555	2.478	11.8	21.4
5 11	16 11.32	-23 9.7	1.189	2.180	6.8	18.4	5 11	16 12.63	-32 49.3	1.506	2.478	8.1	21.2
5 21	16 1.03	-23 8.3	1.169	2.181	1.7	18.0	5 21	16 1.25	-32 37.6	1.481	2.479	5.1	21.1
5 31	15 50.42	-23 0.4	1.175	2.181	4.5	18.2	5 31	15 49.58	-32 8.2	1.482	2.478	5.7	21.1
6 10	15 41.06	-22 49.4	1.205	2.182	9.7	18.5	6 10	15 39.12	-31 25.6	1.509	2.478	9.0	21.3
6 20	15 34.15	-22 39.9	1.256	2.184	14.4	18.8	6 20	15 31.00	-30 36.4	1.560	2.477	12.8	21.5
6 30	15 30.44	-22 35.7	1.327	2.186	18.4	19.1	6 30	15 25.94	-29 47.6	1.632	2.475	16.2	21.7
<b>416489</b>	2003 <i>WL</i> <sub>156</sub>		5 22.8 195°64	6°4/19.6	17		<b>470365</b>	2007 <i>TM</i> <sub>63</sub>		5 22.8 287°26	0°2/22.9	16	
4 21	16 24.90	-3 58.9	2.012	2.873	12.4	21.6	4 21	16 22.82	-21 48.5	1.921	2.794	12.3	22.1
5 1	16 18.42	-3 8.6	1.945	2.871	9.6	21.5	5 1	16 17.33	-21 42.1	1.832	2.776	9.0	21.8
5 11	16 10.15	-2 25.9	1.902	2.868	7.2	21.3	5 11	16 9.75	-21 29.8	1.767	2.757	5.1	21.6
5 21	16 0.83	-1 55.2	1.885	2.864	6.4	21.3	5 21	16 0.81	-21 12.4	1.727	2.739	0.9	21.2
5 31	15 51.35	-1 39.8	1.896	2.859	7.8	21.3	5 31	15 51.49	-20 51.6	1.716	2.721	3.5	21.4
6 10	15 42.65	-1 41.5	1.933	2.853	10.5	21.5	6 10	15 42.88	-20 30.4	1.731	2.702	7.8	21.6
6 20	15 35.48	-2 0.3	1.993	2.847	13.3	21.6	6 20	15 35.88	-20 12.2	1.770	2.684	11.7	21.8
6 30	15 30.39	-2 34.5	2.073	2.840	15.8	21.8	6 30	15 31.17	-19 59.9	1.831	2.666	15.1	22.0
<b>356345</b>	2010 <i>LU</i> <sub>2</sub>		5 22.8 258°03	9°0/28.3	18		<b>253501</b>	2003 <i>SF</i> <sub>118</sub>		5 22.8 290°83	1°2/23.2	17	
4 21	16 30.14	-51 15.4	2.704	3.435	13.0	21.2	4 21	16 25.55	-23 48.2	1.428	2.308	15.4	21.1
5 1	16 22.77	-51 59.9	2.610	3.418	11.6	21.1	5 1	16 20.08	-23 48.6	1.337	2.283	11.4	20.8
5 11	16 12.86	-52 25.0	2.535	3.401	10.2	20.9	5 11	16 11.66	-23 39.9	1.267	2.258	6.7	20.5
5 21	16 1.27	-52 26.6	2.484	3.383	9.2	20.8	5 21	16 1.15	-23 21.6	1.221	2.232	1.7	20.1
5 31	15 49.24	-52 2.7	2.457	3.365	9.0	20.8	5 31	15 49.91	-22 55.1	1.201	2.207	4.5	20.2
6 10	15 38.13	-51 15.2	2.455	3.347	9.7	20.8	6 10	15 39.53	-22 24.8	1.205	2.181	9.9	20.4
6 20	15 29.02	-50 8.8	2.476	3.329	11.1	20.9	6 20	15 31.36	-21 56.0	1.232	2.156	14.9	20.7
6 30	15 22.69	-48 50.3	2.520	3.310	12.7	21.0	6 30	15 26.36	-21 34.1	1.277	2.131	19.3	20.9
<b>173078</b>	2006 <i>UM</i> <sub>187</sub>		5 22.8 140°44	4°9/26.1	18		<b>379840</b>	2011 <i>SG</i> <sub>69</sub>		5 22.8 306°19	0°9/23.7	18	
4 21	16 25.16	-38 20.3	2.671	3.479	11.2	20.7	4 21	16 14.64	-25 44.5	4.388	5.238	6.4	21.4
5 1	16 18.51	-38 30.9	2.599	3.488	9.0	20.6	5 1	16 10.50	-25 39.0	4.306	5.236	4.7	21.3
5 11	16 10.15	-38 27.2	2.551	3.497	6.8	20.5	5 11	16 5.55	-25 29.5	4.250	5.234	2.8	21.1
5 21	16 0.82	-38 8.1	2.529	3.505	5.1	20.4	5 21	16 0.14	-25 16.3	4.223	5.231	1.1	21.0
5 31	15 51.43	-37 34.3	2.535	3.514	5.1	20.4	5 31	15 54.66	-25 0.1	4.226	5.229	1.8	21.0
6 10	15 42.87	-36 48.8	2.569	3.521	6.7	20.5	6 10	15 49.51	-24 42.2	4.258	5.227	3.7	21.2
6 20	15 35.84	-35 55.8	2.629	3.529	8.9	20.6	6 20	15 45.03	-24 24.1	4.317	5.225	5.5	21.3
6 30	15 30.85	-35 0.2	2.713	3.536	11.1	20.8	6 30	15 41.52	-24 7.1	4.402	5.222	7.2	21.4
<b>8014</b>	1990 <i>MF</i>		5 22.8 324°33	3°2/21.7	15		<b>409741</b>	2006 <i>DD</i> <sub>22</sub>		5 22.8 31°38	2°0/22.		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>61415</b>	2000 QK <sub>12</sub>		5 22.8 290°38	3°0/21.6	18		<b>287826</b>	2003 SA <sub>197</sub>		5 22.8 334°67	9°4/26.9	18	
4 21	16 22.84	-14 40.7	1.647	2.531	13.5	19.7	4 21	16 20.70	-42 20.5	1.577	2.406	16.8	19.0
5 1	16 17.52	-14 11.1	1.565	2.514	9.8	19.4	5 1	16 16.89	-42 57.5	1.479	2.372	14.3	18.7
5 11	16 9.93	-13 40.5	1.507	2.497	5.8	19.1	5 11	16 10.01	-43 11.7	1.399	2.339	11.7	18.5
5 21	16 0.86	-13 11.9	1.473	2.481	3.0	18.9	5 21	16 0.94	-42 57.5	1.340	2.307	9.8	18.3
5 31	15 51.42	-12 48.9	1.466	2.464	5.4	19.0	5 31	15 51.12	-42 12.2	1.304	2.276	9.6	18.2
6 10	15 42.77	-12 35.0	1.484	2.447	9.7	19.2	6 10	15 42.27	-40 58.8	1.291	2.247	11.5	18.2
6 20	15 35.91	-12 32.5	1.525	2.431	13.8	19.4	6 20	15 35.85	-39 25.2	1.299	2.219	14.6	18.3
6 30	15 31.55	-12 42.6	1.586	2.414	17.3	19.6	6 30	15 32.86	-37 41.8	1.327	2.193	18.0	18.5
<b>479208</b>	2013 CO <sub>126</sub>		5 22.8 72°46	6°7/27.2	18		<b>276977</b>	2004 VM <sub>74</sub>		5 22.8 282°95	1°9/22.2	18	
4 21	16 25.40	-42 18.7	2.319	3.117	13.1	21.3	4 21	16 25.35	-15 18.8	1.823	2.698	12.8	20.5
5 1	16 19.03	-42 38.4	2.249	3.123	10.8	21.1	5 1	16 19.31	-15 22.6	1.729	2.674	9.3	20.2
5 11	16 10.58	-42 40.0	2.201	3.130	8.6	21.0	5 11	16 10.98	-15 27.2	1.659	2.650	5.4	20.0
5 21	16 0.94	-42 21.3	2.177	3.137	7.0	20.9	5 21	16 1.08	-15 33.5	1.615	2.625	2.0	19.7
5 31	15 51.19	-41 42.7	2.179	3.144	6.8	20.9	5 31	15 50.63	-15 42.9	1.599	2.600	4.5	19.8
6 10	15 42.45	-40 47.7	2.208	3.151	8.2	21.0	6 10	15 40.80	-15 57.2	1.609	2.575	8.8	20.0
6 20	15 35.57	-39 41.9	2.261	3.158	10.2	21.1	6 20	15 32.62	-16 17.7	1.644	2.550	12.9	20.2
6 30	15 31.10	-38 31.5	2.337	3.166	12.4	21.3	6 30	15 26.86	-16 45.6	1.699	2.524	16.5	20.3
<b>396148</b>	2013 DU <sub>10</sub>		5 22.8 120°91	1°8/23.6	16		<b>183129</b>	2002 RO <sub>201</sub>		5 22.8 250°40	1°8/22.0	18	
4 21	16 24.45	-25 32.1	2.530	3.382	10.4	21.7	4 21	16 25.26	-17 7.4	1.823	2.697	12.8	21.1
5 1	16 17.99	-26 2.0	2.460	3.390	7.7	21.6	5 1	16 19.12	-16 41.7	1.736	2.681	9.3	20.9
5 11	16 9.91	-26 26.0	2.415	3.398	4.7	21.4	5 11	16 10.79	-16 12.7	1.673	2.664	5.3	20.6
5 21	16 0.84	-26 43.2	2.398	3.405	2.0	21.2	5 21	16 1.04	-15 42.6	1.637	2.647	1.9	20.3
5 31	15 51.61	-26 53.7	2.410	3.412	3.1	21.3	5 31	15 50.90	-15 14.5	1.628	2.628	4.5	20.5
6 10	15 43.05	-26 58.8	2.451	3.419	6.1	21.5	6 10	15 41.53	-14 51.7	1.646	2.610	8.8	20.7
6 20	15 35.85	-27 0.5	2.518	3.426	8.9	21.7	6 20	15 33.86	-14 37.4	1.688	2.591	12.8	20.9
6 30	15 30.52	-27 1.6	2.609	3.432	11.4	21.9	6 30	15 28.60	-14 33.6	1.751	2.571	16.3	21.0
<b>499243</b>	2009 UA <sub>143</sub>		5 22.8 223°10	0°5/22.6	17		<b>497374</b>	2005 UW <sub>337</sub>		5 22.8 146°36	1°1/22.2	17	
4 21	16 24.37	-20 21.7	2.040	2.909	11.9	22.8	4 21	16 24.53	-18 58.3	2.174	3.042	11.3	22.9
5 1	16 18.22	-20 0.8	1.958	2.901	8.6	22.6	5 1	16 18.05	-18 27.0	2.110	3.052	8.1	22.7
5 11	16 10.15	-19 34.6	1.901	2.892	4.8	22.3	5 11	16 9.92	-17 51.7	2.071	3.062	4.5	22.5
5 21	16 0.89	-19 4.6	1.872	2.883	0.8	22.0	5 21	16 0.87	-17 14.6	2.060	3.071	1.2	22.3
5 31	15 51.40	-18 33.3	1.870	2.874	3.6	22.2	5 31	15 51.78	-16 38.4	2.078	3.080	3.6	22.5
6 10	15 42.67	-18 3.9	1.896	2.864	7.6	22.4	6 10	15 43.54	-16 6.3	2.124	3.088	7.2	22.7
6 20	15 35.52	-17 39.7	1.947	2.853	11.2	22.6	6 20	15 36.82	-15 40.9	2.195	3.095	10.4	22.9
6 30	15 30.54	-17 23.3	2.020	2.842	14.3	22.8	6 30	15 32.11	-15 24.3	2.289	3.102	13.2	23.1
<b>509689</b>	2008 QW <sub>47</sub>		5 22.8 270°03	8°8/17.2	18		<b>270360</b>	2001 YS <sub>73</sub>		5 22.8 170°47	1°8/21.9	18	
4 21	16 21.66	+ 1 9.4	1.938	2.796	12.9	21.6	4 21	16 24.70	-15 58.5	2.172	3.041	11.3	21.4
5 1	16 16.30	+ 2 31.3	1.863	2.776	10.7	21.4	5 1	16 18.24	-15 43.0	2.103	3.045	8.1	21.2
5 11	16 9.11	+ 3 43.0	1.811	2.756	9.2	21.3	5 11	16 10.08	-15 26.4	2.058	3.048	4.6	21.0
5 21	16 0.74	+ 4 38.3	1.785	2.736	9.0	21.2	5 21	16 0.90	-15 10.4	2.041	3.050	1.8	20.8
5 31	15 52.09	+ 5 11.9	1.783	2.715	10.4	21.3	5 31	15 51.61	-14 57.0	2.053	3.052	3.9	20.9
6 10	15 44.09	+ 5 21.2	1.805	2.695	12.7	21.4	6 10	15 43.08	-14 48.4	2.093	3.054	7.4	21.2
6 20	15 37.56	+ 5 6.3	1.848	2.673	15.3	21.5	6 20	15 36.04	-14 46.2	2.158	3.055	10.7	21.4
6 30	15 33.07	+ 4 29.3	1.909	2.652	17.7	21.6	6 30	15 30.99	-14 51.7	2.245	3.055	13.5	21.6
<b>438635</b>	2008 BP <sub>9</sub>		5 22.8 140°26	9°0/17.4	18		<b>167135</b>	2003 SE <sub>178</sub>		5 22.8 176°97	2°2/23.9	18	
4 21	16 21.19	+10 43.7	2.617	3.426	11.5	21.3	4 21	16 24.05	-27 46.2	2.017	2.876	12.5	20.2
5 1	16 15.39	+11 29.6	2.572	3.433	10.1	21.2	5 1	16 18.05	-27 40.9	1.944	2.876	9.3	20.0
5 11	16 8.33	+11 59.8	2.549	3.441	9.2	21.1	5 11	16 10.06	-27 25.2	1.894	2.877	5.7	19.7
5 21	16 0.59	+12 10.8	2.551	3.448	9.1	21.1	5 21	16 0.91	-26 59.0	1.870	2.877	2.5	19.5
5 31	15 52.84	+12 0.9	2.577	3.455	9.8	21.2	5 31	15 51.59	-26 24.4	1.874	2.877	3.6	19.6
6 10	15 45.74	+11 30.1	2.628	3.462	11.0	21.3	6 10	15 43.16	-25 44.8	1.905	2.877	7.2	19.8
6 20	15 39.82	+10 40.6	2.700	3.468	12.5	21.4	6 20	15 36.43	-25 4.6	1.961	2.877	10.6	20.0
6 30	15 35.46	+ 9 35.4	2.791	3.474	13.9	21.5	6 30	15 31.97	-24 28.2	2.040	2.877	13.7	20.2
<b>299710</b>	2006 QT <sub>169</sub>		5 22.8 274°68	4°4/20.3	16		<b>106826</b>	2000 YF		5 22.8 223°05	14°9/27.8	18	
4 21	16 20.77	- 9 38.8	2.117	2.992	11.3	21.3	4 21	16 40.12	-49 20.0	1.274	2.065	22.1	19.9
5 1	16 15.55	- 8 51.9	2.035	2.975	8.4	21.1	5 1	16 32.39	-50 55.6	1.204	2.058	19.5	19.7
5 11	16 8.64	- 8 7.4	1.978	2.959	5.7	20.9	5 11	16 19.37	-52 0.5	1.150	2.051	17.1	19.5
5 21	16 0.66	- 7 28.8	1.947	2.942	4.4	20.8	5 21	16 2.49	-52 21.6	1.115	2.044	15.3	19.3
5 31	15 52.45	- 6 59.7	1.944	2.926	6.1	20.8	5 31	15 44.50	-51 51.5	1.100	2.036	15.0	19.3
6 10	15 44.85	- 6 42.9	1.967	2.909	9.1	21.0	6 10	15 28.66	-50 34.3	1.105	2.027	16.4	19.3
6 20	15 38.61	- 6 39.8	2.013	2.892	12.2	21.2	6 20	15 17.33	-48 43.3	1.130	2.017	18.9	19.5
6 30	15 34.27	- 6 50.6	2.081	2.875	14.9	21.3	6 30	15 11.60	-46 36.3	1.171	2.007	21.8	19.6
<b>390997</b>	2005 SN <sub>93</sub>		5 22.8 278°58	3°7/24.4	18		<b>300949</b>	2008 CM <sub>185</sub>		5 22.8 208°64	3°2/24.7	17	
4 21	16 24.86	-31 4.9	2.364	3.205	11.5	20.5	4 21	16 23.43	-31 22.1	2.413	3.254	11.3	20.8
5 1	16 18.71	-31 36.2	2.265	3.183	8.9	20.3	5 1	16 17.43	-31 27.5	2.332	3.251	8.6	20.6
5 11	16 10.54	-31 58.1	2.189	3.160	6.1	20.1	5 11	16 9.67	-31 22.0	2.275	3.248	5.7	20.4
5 21	16 0.98	-32 8.8	2.141	3.137	3.9	19.9	5 21	16 0.86	-31 4.9	2.246	3.245	3.4	20.2
5 31	15 50.96	-32 7.5	2.120	3.114	4.4	19.9	5 31	15 51.86	-30 37.1	2.244	3.241	3.9	20.3
6 10	15 41.49	-31 55.8	2.127	3.091	7.1	20.0	6 10	15 43.60	-30 1.4	2.270	3.238	6.5	20.4
6 20	15 33.48	-31 37.0	2.160	3.068	10.2	20.2	6 20	15 36.81	-29 21.7	2.323	3.234	9.4	20.6
6 30	15 27.62	-31 15.2	2.216	3.044	13.0	20.3	6 30	15 32.04	-28 42.3	2.398	3.229	12.1	20.8
<b>259672</b>	2003 WL <sub>165</sub>		5 22.8 234°68	0°4/22.6	17		<b>347858</b>	2002 RW <sub>122</sub>		5 22.8 281°76	2°8/21.6	18	
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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>127187</b>	2002 <i>GB</i> <sub>172</sub>		5 22.8 92°69	0°6/22.5	18		<b>206812</b>	2004 <i>DF</i> <sub>63</sub>		5 22.8 153°43	0°9/22.4	18	
4 21	16 21.11	-19 40.1	2.391	3.260	10.4	20.4	4 21	16 22.50	-18 40.4	2.250	3.119	10.9	20.9
5 1	16 15.53	-19 22.9	2.329	3.271	7.4	20.2	5 1	16 16.67	-18 27.0	2.180	3.123	7.8	20.7
5 11	16 8.50	-19 2.4	2.292	3.283	4.1	20.1	5 11	16 9.21	-18 10.6	2.136	3.127	4.3	20.5
5 21	16 0.66	-18 39.9	2.283	3.295	0.8	19.8	5 21	16 0.82	-17 52.8	2.119	3.130	1.0	20.3
5 31	15 52.79	-18 17.4	2.303	3.306	3.0	20.0	5 31	15 52.31	-17 35.2	2.130	3.133	3.3	20.4
6 10	15 45.64	-17 57.2	2.351	3.318	6.3	20.2	6 10	15 44.53	-17 20.5	2.169	3.135	6.8	20.7
6 20	15 39.80	-17 41.4	2.424	3.329	9.3	20.5	6 20	15 38.15	-17 10.5	2.234	3.138	10.1	20.9
6 30	15 35.73	-17 31.9	2.520	3.340	11.9	20.6	6 30	15 33.68	-17 7.0	2.321	3.140	12.8	21.1
<b>159500</b>	2000 <i>UR</i> <sub>46</sub>		5 22.8 153°92	2°2/21.3	18		<b>99311</b>	2001 <i>SQ</i> <sub>282</sub>		5 22.8 135°68	2°4/20.2	18	
4 21	16 23.36	-19 26.1	1.877	2.752	12.5	19.6	4 21	16 13.37	-9 10.0	4.464	5.327	6.0	19.7
5 1	16 17.42	-17 56.1	1.808	2.754	8.9	19.4	5 1	16 9.55	-8 36.9	4.395	5.330	4.5	19.5
5 11	16 9.64	-16 18.3	1.765	2.756	5.0	19.2	5 11	16 5.04	-8 5.7	4.354	5.332	3.0	19.4
5 21	16 0.84	-14 37.9	1.750	2.758	2.2	19.0	5 21	16 0.16	-7 37.9	4.342	5.334	2.4	19.4
5 31	15 52.03	-13 1.3	1.763	2.760	4.8	19.1	5 31	15 55.23	-7 14.8	4.359	5.336	3.2	19.5
6 10	15 44.18	-11 34.9	1.804	2.762	8.6	19.4	6 10	15 50.61	-6 57.5	4.405	5.338	4.7	19.6
6 20	15 38.01	-10 23.4	1.870	2.763	12.2	19.6	6 20	15 46.59	-6 46.7	4.476	5.340	6.3	19.7
6 30	15 34.04	-9 29.3	1.957	2.764	15.2	19.8	6 30	15 43.42	-6 42.7	4.572	5.342	7.7	19.8
<b>515728</b>	2014 <i>WS</i> <sub>490</sub>		5 22.8 245°30	5°6/17.0	18		<b>352101</b>	2007 <i>AE</i> <sub>6</sub>		5 22.8 150°21	4°2/25.7	17	
4 21	16 14.76	+10 29.8	4.578	5.376	7.1	21.1	4 21	16 23.25	-35 36.0	2.406	3.234	11.7	20.7
5 1	16 10.49	+10 51.8	4.519	5.372	6.2	21.0	5 1	16 17.31	-35 30.5	2.329	3.235	9.2	20.5
5 11	16 5.54	+11 4.6	4.484	5.369	5.7	21.0	5 11	16 9.60	-35 10.7	2.276	3.237	6.6	20.3
5 21	16 0.20	+11 6.7	4.475	5.365	5.6	21.0	5 21	16 0.88	-34 36.1	2.248	3.238	4.5	20.2
5 31	15 54.82	+10 57.1	4.492	5.362	6.1	21.0	5 31	15 52.07	-33 48.0	2.249	3.239	4.6	20.2
6 10	15 49.74	+10 35.5	4.535	5.358	6.9	21.0	6 10	15 44.10	-32 50.1	2.277	3.240	6.7	20.3
6 20	15 45.27	+10 2.7	4.600	5.355	7.9	21.1	6 20	15 37.69	-31 47.3	2.331	3.241	9.4	20.5
6 30	15 41.66	+9 19.8	4.686	5.351	8.8	21.2	6 30	15 33.36	-30 44.6	2.408	3.243	11.9	20.7
<b>309586</b>	2008 <i>AW</i> <sub>110</sub>		5 22.8 46°89	1°0/22.4	17		<b>251876</b>	1999 <i>VK</i> <sub>46</sub>		5 22.8 263°80	5°4/24.5	18	
4 21	16 21.40	-18 31.0	2.032	2.908	11.6	20.7	4 21	16 29.80	-35 39.6	2.565	3.379	11.5	20.7
5 1	16 15.98	-18 17.3	1.969	2.915	8.3	20.5	5 1	16 22.37	-36 50.6	2.470	3.363	9.3	20.5
5 11	16 8.85	-18 0.8	1.930	2.922	4.6	20.3	5 11	16 12.70	-37 51.7	2.399	3.347	7.0	20.3
5 21	16 0.73	-17 43.0	1.918	2.929	1.1	20.0	5 21	16 1.42	-38 39.0	2.356	3.331	5.6	20.2
5 31	15 52.53	-17 26.1	1.933	2.936	3.6	20.2	5 31	15 49.52	-39 10.1	2.342	3.315	5.9	20.2
6 10	15 45.13	-17 12.5	1.975	2.944	7.3	20.5	6 10	15 38.09	-39 25.2	2.355	3.298	7.8	20.3
6 20	15 39.25	-17 4.4	2.042	2.951	10.6	20.7	6 20	15 28.15	-39 27.0	2.395	3.281	10.2	20.4
6 30	15 35.39	-17 3.5	2.131	2.959	13.5	20.9	6 30	15 20.48	-39 20.0	2.458	3.264	12.6	20.6
<b>503453</b>	2016 <i>EW</i> <sub>118</sub>		5 22.8 13°36	0°4/22.9	17		<b>423978</b>	2006 <i>VY</i> <sub>5</sub>		5 22.8 213°82	0°2/22.9	18	
4 21	16 23.63	-21 10.8	1.138	2.036	17.1	20.7	4 21	16 26.50	-21 42.9	2.052	2.916	12.1	22.4
5 1	16 18.72	-21 21.3	1.083	2.038	12.4	20.5	5 1	16 19.82	-21 36.9	1.969	2.909	8.7	22.2
5 11	16 10.82	-21 25.6	1.047	2.041	7.0	20.2	5 11	16 11.12	-21 25.3	1.911	2.900	4.9	21.9
5 21	16 1.07	-21 24.0	1.034	2.046	1.2	19.8	5 21	16 1.14	-21 8.6	1.880	2.891	0.8	21.6
5 31	15 51.07	-21 18.5	1.044	2.051	4.7	20.1	5 31	15 50.89	-20 48.5	1.877	2.882	3.4	21.8
6 10	15 42.46	-21 12.7	1.077	2.057	10.2	20.4	6 10	15 41.41	-20 27.8	1.902	2.871	7.4	22.0
6 20	15 36.45	-21 10.4	1.131	2.064	15.1	20.7	6 20	15 33.55	-20 9.6	1.953	2.860	11.1	22.2
6 30	15 33.76	-21 15.1	1.203	2.072	19.2	21.0	6 30	15 27.95	-19 56.9	2.026	2.848	14.3	22.4
<b>351863</b>	2006 <i>SZ</i> <sub>1</sub>		5 22.8 186°52	0°4/23.1	18		<b>10363</b>	1994 <i>UP</i> <sub>11</sub>		5 22.8 217°05	0°7/22.6	18	
4 21	16 21.76	-23 34.4	2.724	3.582	9.6	22.0	4 21	16 27.72	-19 33.2	1.735	2.606	13.5	18.2
5 1	16 15.93	-23 8.1	2.645	3.581	6.9	21.8	5 1	16 20.97	-19 22.7	1.655	2.599	9.8	17.9
5 11	16 8.72	-22 35.5	2.592	3.580	3.9	21.6	5 11	16 11.87	-19 7.6	1.600	2.591	5.5	17.6
5 21	16 0.71	-21 57.9	2.568	3.579	0.8	21.3	5 21	16 1.27	-18 48.9	1.570	2.582	1.0	17.3
5 31	15 52.62	-21 17.4	2.573	3.577	2.6	21.5	5 31	15 50.34	-18 28.9	1.568	2.572	4.1	17.5
6 10	15 45.15	-20 36.7	2.607	3.575	5.7	21.7	6 10	15 40.30	-18 10.8	1.593	2.562	8.7	17.7
6 20	15 38.89	-19 58.9	2.668	3.572	8.6	21.9	6 20	15 32.17	-17 58.0	1.643	2.551	12.8	18.0
6 30	15 34.27	-19 26.4	2.753	3.569	11.1	22.1	6 30	15 26.64	-17 53.2	1.713	2.539	16.3	18.2
<b>134642</b>	1999 <i>UV</i> <sub>44</sub>		5 22.8 213°79	0°7/22.3	18		<b>359523</b>	2010 <i>RT</i> <sub>78</sub>		5 22.8 208°84	4°5/25.5	18	
4 21	16 16.79	-17 58.9	4.078	4.939	6.6	21.1	4 21	16 24.25	-36 12.7	2.693	3.511	10.9	21.4
5 1	16 12.06	-17 45.8	3.992	4.931	4.7	21.0	5 1	16 18.01	-36 36.2	2.610	3.508	8.7	21.2
5 11	16 6.46	-17 31.3	3.933	4.923	2.6	20.8	5 11	16 10.03	-36 47.7	2.551	3.504	6.4	21.0
5 21	16 0.36	-17 16.1	3.904	4.915	0.7	20.6	5 21	16 0.97	-36 45.5	2.518	3.500	4.8	20.9
5 31	15 54.17	-17 1.4	3.905	4.906	2.1	20.8	5 31	15 51.69	-36 29.6	2.514	3.496	4.9	20.9
6 10	15 48.31	-16 48.4	3.936	4.898	4.2	20.9	6 10	15 43.09	-36 2.1	2.537	3.491	6.7	21.0
6 20	15 43.16	-16 38.2	3.994	4.888	6.3	21.0	6 20	15 35.90	-35 26.6	2.586	3.487	9.0	21.2
6 30	15 39.02	-16 31.8	4.077	4.879	8.0	21.2	6 30	15 30.68	-34 47.4	2.658	3.482	11.2	21.3
<b>31267</b>	<i>Kuldiga</i>		5 22.8 240°84	3°8/24.7	18		<b>55550</b>	2001 <i>XW</i> <sub>70</sub>		5 22.8 338°46	5°3/21.8	18	
4 21	16 24.67	-32 4.1	2.399	3.237	11.4	18.0	4 21	16 25.23	-7 21.5	1.389	2.273	15.5	18.3
5 1	16 18.45	-32 30.1	2.313	3.229	8.8	17.8	5 1	16 19.50	-7 31.8	1.321	2.265	11.7	18.1
5 11	16 10.33	-32 45.7	2.252	3.220	6.1	17.6	5 11	16 11.18	-7 53.0	1.274	2.258	7.7	17.8
5 21	16 1.00	-32 49.2	2.217	3.212	4.0	17.4	5 21	16 1.18	-8 27.5	1.251	2.251	5.3	17.7
5 31	15 51.36	-32 40.5	2.210	3.203	4.4	17.4	5 31	15 50.78	-9 16.1	1.253	2.245	7.2	17.8
6 10	15 42.40	-32 21.7	2.231	3.194	6.9	17.6	6 10	15 41.38	-10 18.2	1.279	2.239	11.2	18.0
6 20	15 34.94	-31 56.2	2.277	3.185	9.7	17.7	6 20	15 34.07	-11 31.6	1.328	2.235	15.3	18.2
6 30	15 29.58	-31 28.4	2.347	3.176	12.4	17.9	6 30	15 29.62	-12 53.7	1.396	2.231	18.9	18.4
<b>169396</b>	2001 <i>VS</i> <sub>104</sub>		5 22.8 235°34	0°8/23.3	18		<b>170138</b>	2003 <i>AC</i> <sub>67</sub>		5 22.8 104°68	0°7/2		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>102386</b>	1999 <i>TB</i> <sub>153</sub>		5 22.9 261°71	4°3/20.9	18		<b>390492</b>	2014 <i>AR</i> <sub>34</sub>		5 22.9 228°08	2°4/24.3	18	
4 21	16 24.01	-12 31.0	1.610	2.493	13.8	19.3	4 21	16 25.41	-29 53.6	2.169	3.017	12.1	21.6
5 1	16 18.36	-11 40.6	1.533	2.480	10.1	19.1	5 1	16 19.03	-29 30.7	2.081	3.006	9.1	21.4
5 11	16 10.44	-10 50.3	1.479	2.466	6.4	18.8	5 11	16 10.67	-28 54.9	2.016	2.996	5.8	21.2
5 21	16 1.06	-10 4.3	1.450	2.453	4.3	18.6	5 21	16 1.12	-28 6.5	1.979	2.984	2.8	20.9
5 31	15 51.36	-9 27.4	1.448	2.439	6.5	18.7	5 31	15 51.37	-27 7.7	1.970	2.972	3.6	21.0
6 10	15 42.53	-9 3.7	1.470	2.425	10.5	18.9	6 10	15 42.43	-26 2.9	1.989	2.960	7.0	21.2
6 20	15 35.53	-8 55.6	1.516	2.411	14.5	19.1	6 20	15 35.15	-24 57.4	2.035	2.947	10.5	21.4
6 30	15 31.07	-9 3.7	1.580	2.396	17.9	19.3	6 30	15 30.10	-23 56.5	2.103	2.934	13.5	21.5
<b>116717</b>	2004 <i>DU</i> <sub>8</sub>		5 22.9 349°77	4°3/21.2	17		<b>461600</b>	2004 <i>TO</i> <sub>54</sub>		5 22.9 210°13	2°7/21.6	16	
4 21	16 22.32	-12 49.0	1.368	2.261	15.1	19.6	4 21	16 25.89	-16 27.3	1.664	2.543	13.6	22.0
5 1	16 17.32	-12 7.5	1.306	2.258	11.0	19.3	5 1	16 19.60	-15 38.5	1.591	2.538	9.9	21.8
5 11	16 9.89	-11 27.2	1.265	2.255	6.8	19.1	5 11	16 11.08	-14 46.0	1.542	2.533	5.7	21.5
5 21	16 0.97	-10 52.7	1.248	2.253	4.3	18.9	5 21	16 1.20	-13 53.3	1.519	2.527	2.7	21.3
5 31	15 51.84	-10 28.5	1.256	2.251	6.7	19.1	5 31	15 51.09	-13 5.1	1.523	2.521	5.3	21.5
6 10	15 43.78	-10 18.3	1.288	2.250	11.0	19.3	6 10	15 41.96	-12 26.0	1.553	2.514	9.5	21.7
6 20	15 37.81	-10 23.6	1.341	2.249	15.1	19.5	6 20	15 34.72	-11 59.3	1.606	2.506	13.5	21.9
6 30	15 34.58	-10 44.2	1.412	2.249	18.7	19.8	6 30	15 30.01	-11 47.0	1.680	2.498	16.9	22.1
<b>202192</b>	2004 <i>XO</i> <sub>50</sub>		5 22.9 228°65	2°2/21.9	18		<b>78102</b>	2002 <i>LE</i> <sub>46</sub>		5 22.9 317°34	8°1/19.4	18	
4 21	16 23.72	-14 26.8	2.097	2.969	11.5	20.2	4 21	16 21.40	-1 47.5	1.630	2.503	14.1	18.7
5 1	16 17.72	-14 15.2	2.019	2.962	8.3	20.0	5 1	16 16.42	-1 0.2	1.559	2.489	11.3	18.4
5 11	16 9.90	-14 3.9	1.966	2.955	4.9	19.7	5 11	16 9.34	-0 24.3	1.511	2.475	9.0	18.3
5 21	16 0.98	-13 54.7	1.940	2.947	2.3	19.5	5 21	16 0.93	-0 5.2	1.486	2.461	8.2	18.2
5 31	15 51.82	-13 49.5	1.942	2.939	4.3	19.7	5 31	15 52.22	-0 7.1	1.486	2.448	9.7	18.2
6 10	15 43.35	-13 50.1	1.971	2.931	7.8	19.9	6 10	15 44.31	-0 31.7	1.509	2.435	12.5	18.4
6 20	15 36.35	-13 58.0	2.025	2.923	11.2	20.1	6 20	15 38.10	-1 17.5	1.554	2.423	15.6	18.5
6 30	15 31.39	-14 14.0	2.101	2.914	14.2	20.2	6 30	15 34.24	-2 21.7	1.616	2.411	18.5	18.7
<b>310370</b>	2011 <i>UF</i> <sub>337</sub>		5 22.9 195°06	3°4/20.6	18		<b>423972</b>	2006 <i>UG</i> <sub>274</sub>		5 22.9 203°33	0°9/23.3	17	
4 21	16 20.15	-9 17.9	2.827	3.691	9.1	21.7	4 21	16 26.27	-23 58.2	1.957	2.820	12.6	22.1
5 1	16 14.71	-8 44.4	2.754	3.689	6.8	21.5	5 1	16 19.73	-23 48.1	1.878	2.816	9.2	21.8
5 11	16 8.05	-8 13.6	2.707	3.686	4.5	21.4	5 11	16 11.11	-23 30.1	1.824	2.812	5.3	21.6
5 21	16 0.68	-7 47.7	2.688	3.683	3.4	21.3	5 21	16 1.21	-23 4.6	1.796	2.807	1.3	21.3
5 31	15 53.20	-7 29.1	2.698	3.679	4.7	21.4	5 31	15 51.07	-22 33.6	1.796	2.801	3.4	21.4
6 10	15 46.25	-7 19.2	2.736	3.675	7.0	21.5	6 10	15 41.80	-22 0.7	1.824	2.795	7.5	21.7
6 20	15 40.33	-7 18.8	2.800	3.670	9.4	21.7	6 20	15 34.27	-21 29.8	1.877	2.788	11.3	21.9
6 30	15 35.87	-7 28.3	2.886	3.665	11.5	21.8	6 30	15 29.09	-21 4.7	1.952	2.781	14.5	22.1
<b>101348</b>	1998 <i>TG</i> <sub>17</sub>		5 22.9 312°25	1°1/22.4	18		<b>289166</b>	2004 <i>VK</i> <sub>52</sub>		5 22.9 197°50	1°4/22.4	17	
4 21	16 21.66	-20 42.0	1.306	2.200	15.6	18.6	4 21	16 28.10	-17 18.7	1.759	2.631	13.4	20.7
5 1	16 17.39	-20 3.2	1.216	2.171	11.4	18.3	5 1	16 21.17	-17 14.3	1.685	2.629	9.6	20.5
5 11	16 10.25	-19 14.1	1.148	2.142	6.5	17.9	5 11	16 11.97	-17 8.0	1.635	2.625	5.4	20.2
5 21	16 1.09	-18 17.4	1.102	2.113	1.4	17.5	5 21	16 1.36	-17 0.8	1.611	2.622	1.5	19.9
5 31	15 51.24	-17 18.0	1.081	2.085	5.2	17.7	5 31	15 50.46	-16 54.5	1.615	2.617	4.3	20.1
6 10	15 42.27	-16 22.8	1.083	2.058	10.9	17.9	6 10	15 40.48	-16 51.7	1.646	2.612	8.6	20.4
6 20	15 35.48	-15 38.3	1.106	2.031	16.1	18.1	6 20	15 32.38	-16 54.5	1.701	2.606	12.6	20.6
6 30	15 31.84	-15 9.3	1.146	2.005	20.7	18.3	6 30	15 26.81	-17 4.8	1.778	2.600	16.0	20.8
<b>278357</b>	2007 <i>JD</i> <sub>29</sub>		5 22.9 315°30	4°7/20.7	17		<b>520762</b>	2014 <i>RA</i> <sub>69</sub>		5 22.9 3°04	5°4/21.8	17	
4 21	16 20.52	-12 13.6	1.496	2.387	14.1	20.6	4 21	16 27.55	-6 44.6	1.445	2.323	15.4	20.3
5 1	16 16.07	-11 20.8	1.414	2.365	10.5	20.3	5 1	16 21.02	-6 54.9	1.382	2.323	11.6	20.0
5 11	16 9.27	-10 27.7	1.354	2.342	6.7	20.0	5 11	16 11.97	-7 16.2	1.341	2.322	7.7	19.8
5 21	16 0.91	-9 39.4	1.318	2.320	4.7	19.8	5 21	16 1.36	-7 50.5	1.324	2.323	5.4	19.7
5 31	15 52.11	-9 1.2	1.308	2.299	7.0	19.9	5 31	15 50.47	-8 38.5	1.333	2.323	7.2	19.8
6 10	15 44.11	-8 37.8	1.321	2.278	11.2	20.1	6 10	15 40.64	-9 39.4	1.368	2.324	11.0	20.0
6 20	15 37.95	-8 31.9	1.355	2.258	15.3	20.3	6 20	15 32.93	-10 50.9	1.425	2.324	14.9	20.2
6 30	15 34.39	-8 43.9	1.408	2.238	19.0	20.5	6 30	15 28.03	-12 10.6	1.502	2.326	18.3	20.5
<b>478301</b>	2011 <i>WU</i> <sub>40</sub>		5 22.9 233°14	0°8/22.5	18		<b>149413</b>	2003 <i>AN</i> <sub>92</sub>		5 22.9 262°31	1°8/22.1	18	
4 21	16 23.48	-17 12.1	2.883	3.743	9.1	21.8	4 21	16 25.02	-17 1.9	1.809	2.684	12.9	20.3
5 1	16 17.22	-17 20.1	2.791	3.729	6.6	21.6	5 1	16 19.05	-16 40.7	1.720	2.665	9.3	20.0
5 11	16 9.53	-17 27.2	2.725	3.714	3.7	21.4	5 11	16 10.86	-16 16.6	1.655	2.646	5.3	19.7
5 21	16 0.93	-17 34.0	2.688	3.699	0.9	21.1	5 21	16 1.21	-15 51.6	1.616	2.626	1.9	19.5
5 31	15 52.08	-17 41.0	2.681	3.683	2.8	21.3	5 31	15 51.13	-15 28.5	1.605	2.606	4.5	19.6
6 10	15 43.69	-17 49.4	2.704	3.667	5.9	21.4	6 10	15 41.79	-15 10.6	1.620	2.586	8.8	19.8
6 20	15 36.36	-18 0.3	2.754	3.650	8.7	21.6	6 20	15 34.13	-15 0.6	1.660	2.565	12.9	20.0
6 30	15 30.58	-18 14.8	2.828	3.633	11.1	21.8	6 30	15 28.89	-15 0.8	1.720	2.543	16.4	20.2
<b>500770</b>	2013 <i>CT</i> <sub>64</sub>		5 22.9 140°12	4°6/19.5	17		<b>183500</b>	2003 <i>FV</i> <sub>2</sub>		5 22.9 346°95	13°6/11.3	18	
4 21	16 19.78	-3 42.2	3.045	3.899	8.8	22.6	4 21	16 17.14	+11 51.6	1.730	2.564	15.3	19.1
5 1	16 14.29	-2 59.3	2.991	3.912	6.9	22.5	5 1	16 13.21	+14 4.4	1.686	2.555	14.1	19.0
5 11	16 7.74	-2 22.3	2.962	3.924	5.2	22.4	5 11	16 7.47	+15 55.9	1.663	2.547	13.6	18.9
5 21	16 0.63	-1 53.5	2.962	3.936	4.7	22.3	5 21	16 0.65	+17 17.5	1.662	2.540	14.0	18.9
5 31	15 53.51	-1 35.2	2.991	3.947	5.6	22.4	5 31	15 53.68	+18 3.8	1.681	2.534	15.2	19.0
6 10	15 46.93	-1 28.4	3.046	3.958	7.4	22.5	6 10	15 47.51	+18 13.4	1.718	2.529	16.9	19.1
6 20	15 41.33	-1 33.2	3.127	3.968	9.3	22.7	6 20	15 42.88	+17 48.8	1.772	2.524	18.6	19.2
6 30	15 37.05	-1 49.0	3.230	3.978	11.0	22.8	6 30	15 40.33	+16 54.8	1.840	2.521	20.2	19.3
<b>204302</b>	2004 <i>PG</i> <sub>85</sub>		5 22.9 260°56	0°2/22.8	17		<b>479015</b>	2012 <i>XC</i> <sub>154</sub>		5 22.9 118°90			



EPHEMERIDES

5 22.9

5 22.9

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>395491</b>	2011 <i>UP</i> <sub>81</sub>		5 22.9	38°79	1.7°/21.8	17	<b>137738</b>	1999 <i>XK</i> <sub>130</sub>		5 22.9	75°62	1.6°/23.3	18
4 21	16 20.16	-17 49.7	2.213	3.088	10.9	20.4	4 21	16 29.52	-23 6.2	1.479	2.353	15.3	19.3
5 1	16 15.02	-17 2.1	2.144	3.090	7.8	20.2	5 1	16 22.37	-23 36.8	1.430	2.372	11.1	19.0
5 11	16 8.34	-16 11.0	2.100	3.091	4.4	19.9	5 11	16 12.66	-24 0.4	1.403	2.391	6.4	18.8
5 21	16 0.79	-15 19.1	2.084	3.093	1.7	19.8	5 21	16 1.50	-24 15.6	1.401	2.411	2.0	18.6
5 31	15 53.16	-14 30.1	2.095	3.094	3.9	19.9	5 31	15 50.30	-24 23.0	1.425	2.430	4.1	18.8
6 10	15 46.25	-13 47.4	2.134	3.096	7.2	20.1	6 10	15 40.43	-24 25.1	1.476	2.449	8.7	19.1
6 20	15 40.71	-13 13.6	2.198	3.098	10.4	20.3	6 20	15 32.91	-24 25.5	1.549	2.468	12.7	19.4
6 30	15 37.00	-12 50.6	2.284	3.099	13.1	20.5	6 30	15 28.34	-24 28.0	1.644	2.487	16.1	19.6
<b>438595</b>	2007 <i>VL</i> <sub>53</sub>		5 22.9	159°67	2.2°/21.5	17	<b>398050</b>	2009 <i>FU</i> <sub>68</sub>		5 22.9	323°54	4.6°/19.2	16
4 21	16 21.34	-16 0.6	2.297	3.169	10.6	21.4	4 21	16 20.19	-13 3.2	1.979	2.859	11.7	20.2
5 1	16 15.79	-15 13.0	2.228	3.172	7.6	21.2	5 1	16 15.19	-11 10.4	1.905	2.850	8.6	20.0
5 11	16 8.74	-14 23.3	2.186	3.175	4.4	21.0	5 11	16 8.51	-9 14.4	1.858	2.842	5.7	19.8
5 21	16 0.85	-13 34.4	2.171	3.178	2.2	20.8	5 21	16 0.84	-7 21.5	1.838	2.833	4.6	19.7
5 31	15 52.89	-12 49.6	2.184	3.180	4.1	21.0	5 31	15 53.06	-5 38.8	1.847	2.825	6.7	19.8
6 10	15 45.65	-12 12.0	2.226	3.182	7.3	21.2	6 10	15 46.05	-4 12.3	1.882	2.818	9.8	20.0
6 20	15 39.73	-11 44.0	2.292	3.184	10.3	21.4	6 20	15 40.50	-3 5.7	1.942	2.810	13.0	20.1
6 30	15 35.62	-11 26.8	2.381	3.186	12.9	21.6	6 30	15 36.91	-2 20.0	2.021	2.803	15.7	20.3
<b>341343</b>	2007 <i>TD</i> <sub>45</sub>		5 22.9	121°83	1.5°/22.0	17	<b>68737</b>	2002 <i>EU</i> <sub>28</sub>		5 22.9	285°73	5.1°/20.8	18
4 21	16 22.28	-17 31.5	2.245	3.116	10.9	21.3	4 21	16 24.25	-11 17.3	1.434	2.321	14.9	19.6
5 1	16 16.47	-17 1.7	2.182	3.126	7.8	21.1	5 1	16 18.91	-10 29.0	1.351	2.299	11.1	19.4
5 11	16 9.12	-16 29.5	2.145	3.136	4.4	20.9	5 11	16 10.98	-9 41.8	1.291	2.278	7.2	19.1
5 21	16 0.91	-15 56.9	2.136	3.145	1.5	20.7	5 21	16 1.28	-9 0.7	1.255	2.256	5.1	18.9
5 31	15 52.66	-15 26.5	2.154	3.155	3.6	20.9	5 31	15 51.05	-8 31.1	1.243	2.234	7.5	19.0
6 10	15 45.19	-15 1.1	2.201	3.164	7.0	21.1	6 10	15 41.67	-8 17.3	1.256	2.212	11.8	19.1
6 20	15 39.11	-14 42.8	2.273	3.173	10.1	21.3	6 20	15 34.28	-8 21.5	1.290	2.190	16.2	19.3
6 30	15 34.90	-14 33.1	2.367	3.181	12.7	21.5	6 30	15 29.71	-8 43.9	1.342	2.168	20.0	19.5
<b>269094</b>	2007 <i>HV</i> <sub>57</sub>		5 22.9	354°85	3.4°/21.6	17	<b>456362</b>	2006 <i>TG</i> <sub>107</sub>		5 22.9	272°09	0.2°/22.7	16
4 21	16 20.68	-14 10.5	1.317	2.215	15.2	19.4	4 21	16 18.18	-20 28.1	3.536	4.396	7.6	22.5
5 1	16 16.28	-13 45.3	1.255	2.210	11.1	19.1	5 1	16 13.29	-20 15.2	3.434	4.372	5.4	22.3
5 11	16 9.40	-13 20.9	1.214	2.206	6.6	18.8	5 11	16 7.31	-19 59.3	3.358	4.347	3.0	22.1
5 21	16 0.99	-13 0.7	1.196	2.203	3.4	18.6	5 21	16 0.66	-19 41.2	3.311	4.323	0.5	21.9
5 31	15 52.31	-12 48.6	1.202	2.201	6.0	18.8	5 31	15 53.83	-19 22.0	3.294	4.298	2.2	22.0
6 10	15 44.71	-12 47.7	1.232	2.201	10.6	19.0	6 10	15 47.34	-19 3.3	3.306	4.272	4.8	22.2
6 20	15 39.21	-12 59.4	1.283	2.201	14.9	19.3	6 20	15 41.66	-18 46.7	3.346	4.247	7.2	22.3
6 30	15 36.49	-13 24.1	1.352	2.202	18.6	19.5	6 30	15 37.18	-18 33.8	3.410	4.221	9.3	22.4
<b>95313</b>	2002 <i>CA</i> <sub>104</sub>		5 22.9	355°64	0.2°/22.9	18	<b>176491</b>	2001 <i>XD</i> <sub>234</sub>		5 22.9	82°36	0.9°/23.3	18
4 21	16 20.76	-21 50.5	1.941	2.817	12.1	19.2	4 21	16 23.22	-23 22.1	2.192	3.057	11.4	20.2
5 1	16 15.76	-21 43.7	1.870	2.815	8.7	19.0	5 1	16 17.29	-23 27.7	2.129	3.067	8.2	20.0
5 11	16 8.89	-21 31.4	1.822	2.813	4.9	18.8	5 11	16 9.65	-23 27.6	2.090	3.078	4.7	19.8
5 21	16 0.90	-21 14.6	1.800	2.812	0.9	18.5	5 21	16 1.04	-23 21.8	2.078	3.089	1.3	19.6
5 31	15 52.71	-20 55.2	1.805	2.811	3.3	18.7	5 31	15 52.34	-23 11.8	2.095	3.099	3.0	19.8
6 10	15 45.33	-20 36.0	1.837	2.810	7.3	18.9	6 10	15 44.43	-22 59.7	2.139	3.110	6.6	20.0
6 20	15 39.51	-20 20.0	1.893	2.810	10.9	19.1	6 20	15 38.03	-22 48.2	2.208	3.121	9.8	20.2
6 30	15 35.84	-20 9.8	1.971	2.811	14.0	19.3	6 30	15 33.64	-22 39.8	2.300	3.131	12.5	20.4
<b>10999</b>	Braga-Ribas		5 22.9	306°78	0.2°/22.9	18	<b>290835</b>	2005 <i>WY</i> <sub>7</sub>		5 22.9	250°61	0.9°/22.4	18
4 21	16 23.10	-24 8.5	1.588	2.466	14.2	17.9	4 21	16 23.27	-16 49.8	2.725	3.587	9.5	20.8
5 1	16 18.18	-23 24.5	1.482	2.428	10.5	17.5	5 1	16 17.19	-16 58.6	2.632	3.570	6.8	20.6
5 11	16 10.64	-22 26.5	1.398	2.390	6.1	17.2	5 11	16 9.61	-17 6.9	2.564	3.553	3.9	20.4
5 21	16 1.23	-21 15.9	1.340	2.351	1.1	16.8	5 21	16 1.05	-17 15.2	2.525	3.536	1.0	20.1
5 31	15 51.14	-19 56.8	1.307	2.313	4.3	16.9	5 31	15 52.22	-17 24.1	2.516	3.518	3.0	20.2
6 10	15 41.74	-18 36.1	1.300	2.274	9.6	17.1	6 10	15 43.84	-17 34.8	2.536	3.500	6.2	20.4
6 20	15 34.25	-17 21.4	1.317	2.236	14.5	17.3	6 20	15 36.57	-17 48.4	2.583	3.481	9.1	20.6
6 30	15 29.55	-16 19.1	1.353	2.198	18.9	17.4	6 30	15 30.93	-18 5.9	2.654	3.463	11.7	20.7
<b>1780</b>	Kippes		5 22.9	333°98	3.6°/24.9	18	<b>46981</b>	1998 <i>SQ</i> <sub>160</sub>		5 22.9	271°63	0.2°/22.9	18
4 21	16 22.85	-32 8.2	2.029	2.877	12.8	15.3	4 21	16 23.67	-21 13.0	1.957	2.828	12.2	19.3
5 1	16 17.33	-32 3.2	1.952	2.874	9.8	15.1	5 1	16 17.94	-21 12.6	1.875	2.818	8.9	19.1
5 11	16 9.79	-31 44.5	1.898	2.871	6.6	14.9	5 11	16 10.19	-21 7.3	1.818	2.808	5.0	18.9
5 21	16 1.05	-31 11.6	1.869	2.869	3.9	14.7	5 21	16 1.16	-20 57.7	1.786	2.798	0.8	18.5
5 31	15 52.13	-30 26.1	1.868	2.866	4.4	14.7	5 31	15 51.82	-20 45.4	1.783	2.788	3.4	18.7
6 10	15 44.10	-29 32.2	1.893	2.864	7.3	14.9	6 10	15 43.22	-20 32.8	1.806	2.777	7.6	18.9
6 20	15 37.80	-28 35.0	1.943	2.862	10.6	15.1	6 20	15 36.24	-20 22.7	1.854	2.767	11.3	19.1
6 30	15 33.81	-27 40.0	2.016	2.860	13.6	15.3	6 30	15 31.50	-20 17.9	1.923	2.756	14.5	19.3
<b>301576</b>	2009 <i>KR</i> <sub>9</sub>		5 22.9	33°67	2.1°/22.0	17	<b>79251</b>	1994 <i>TW</i> <sub>8</sub>		5 22.9	128°43	3.6°/24.1	17
4 21	16 22.15	-14 28.9	1.977	2.854	11.9	20.7	4 21	16 28.62	-28 40.6	1.700	2.558	14.4	20.1
5 1	16 16.60	-14 25.3	1.913	2.859	8.5	20.5	5 1	16 21.80	-29 15.6	1.633	2.563	10.9	19.9
5 11	16 9.30	-14 22.6	1.874	2.864	4.9	20.3	5 11	16 12.45	-29 39.7	1.589	2.568	7.0	19.7
5 21	16 0.97	-14 22.4	1.862	2.870	2.2	20.1	5 21	16 1.52	-29 50.6	1.570	2.573	3.9	19.5
5 31	15 52.50	-14 26.1	1.877	2.876	4.2	20.2	5 31	15 50.32	-29 48.2	1.578	2.577	4.8	19.6
6 10	15 44.84	-14 35.3	1.919	2.883	7.8	20.5	6 10	15 40.20	-29 35.3	1.612	2.582	8.4	19.8
6 20	15 38.71	-14 51.0	1.985	2.889	11.1	20.7	6 20	15 32.22	-29 16.5	1.670	2.586	12.2	20.0
6 30	15 34.63	-15 13.7	2.073	2.896	14.0	20.9	6 30	15 27.07	-28 57.1	1.749	2.590	15.4	20.2
<b>252832</b>	2002 <i>GQ</i> <sub>111</sub>		5 22.9	304°19	2.7°/22.1	17	<b>5211</b>	Stevenson		5 22.9	302°17	20°0/7.	

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>384863</b>	2012 <i>SP</i> <sub>29</sub>		5 22.9 140°34	1.6/23.6	17		<b>508494</b>	2016 <i>PN</i> <sub>89</sub>		5 22.9 294°10	0.6/23.2	17	
4 21	16 24.41	-25 8.1	1.975	2.839	12.4	21.0	4 21	16 22.58	-23 26.2	1.876	2.748	12.6	21.1
5 1	16 18.40	-25 15.1	1.903	2.840	9.1	20.8	5 1	16 17.22	-23 9.9	1.795	2.738	9.2	20.9
5 11	16 10.40	-25 14.4	1.855	2.842	5.4	20.6	5 11	16 9.80	-22 45.7	1.739	2.729	5.3	20.6
5 21	16 1.19	-25 5.8	1.834	2.843	1.9	20.3	5 21	16 1.11	-22 14.6	1.708	2.719	1.1	20.3
5 31	15 51.78	-24 50.5	1.840	2.844	3.5	20.4	5 31	15 52.16	-21 39.1	1.704	2.710	3.5	20.5
6 10	15 43.22	-24 31.3	1.873	2.846	7.2	20.7	6 10	15 44.02	-21 3.0	1.727	2.700	7.7	20.7
6 20	15 36.36	-24 11.7	1.931	2.847	10.8	20.9	6 20	15 37.56	-20 30.1	1.774	2.691	11.5	20.9
6 30	15 31.78	-23 55.1	2.012	2.848	13.9	21.1	6 30	15 33.41	-20 4.2	1.843	2.682	14.8	21.1
<b>185552</b>	2007 <i>YY</i> <sub>58</sub>		5 22.9 119°77	2.4/21.4	17		<b>18507</b>	1996 <i>QM</i> <sub>1</sub>		5 22.9 173°28	3.2/21.3	17	
4 21	16 21.68	-13 26.9	2.695	3.561	9.5	21.7	4 21	16 25.56	-15 3.9	1.650	2.530	13.7	18.7
5 1	16 15.78	-12 57.2	2.639	3.579	6.8	21.6	5 1	16 19.32	-14 11.3	1.586	2.532	9.9	18.5
5 11	16 8.66	-12 28.1	2.610	3.596	4.1	21.4	5 11	16 10.93	-13 16.7	1.544	2.534	5.9	18.2
5 21	16 0.89	-12 1.7	2.609	3.613	2.4	21.3	5 21	16 1.29	-12 24.2	1.529	2.535	3.2	18.1
5 31	15 53.12	-11 39.9	2.638	3.630	3.8	21.5	5 31	15 51.51	-11 38.4	1.541	2.536	5.6	18.2
6 10	15 46.02	-11 24.6	2.694	3.646	6.5	21.7	6 10	15 42.76	-11 3.6	1.578	2.536	9.6	18.4
6 20	15 40.07	-11 16.9	2.777	3.662	9.0	21.8	6 20	15 35.90	-10 42.5	1.639	2.536	13.4	18.7
6 30	15 35.68	-11 17.5	2.883	3.677	11.2	22.0	6 30	15 31.52	-10 36.2	1.720	2.536	16.7	18.9
<b>442063</b>	2010 <i>RB</i> <sub>124</sub>		5 22.9 346°13	2.0/23.7	16		<b>428782</b>	2008 <i>SN</i> <sub>256</sub>		5 22.9 242°65	1.2/22.3	17	
4 21	16 21.19	-25 54.0	1.756	2.629	13.3	20.9	4 21	16 23.22	-18 36.8	1.943	2.817	12.1	21.5
5 1	16 16.37	-26 0.2	1.680	2.622	9.8	20.7	5 1	16 17.53	-18 11.9	1.866	2.811	8.7	21.3
5 11	16 9.38	-25 57.3	1.628	2.615	5.9	20.4	5 11	16 9.92	-17 43.2	1.813	2.804	4.9	21.0
5 21	16 1.04	-25 45.3	1.601	2.609	2.3	20.2	5 21	16 1.13	-17 12.5	1.787	2.797	1.3	20.8
5 31	15 52.42	-25 25.5	1.599	2.604	3.8	20.3	5 31	15 52.13	-16 42.6	1.788	2.791	3.9	21.0
6 10	15 44.66	-25 1.2	1.624	2.600	7.8	20.5	6 10	15 43.91	-16 16.9	1.816	2.783	7.9	21.2
6 20	15 38.68	-24 36.3	1.672	2.596	11.7	20.7	6 20	15 37.28	-15 58.1	1.869	2.776	11.6	21.4
6 30	15 35.15	-24 15.0	1.741	2.593	15.0	20.9	6 30	15 32.84	-15 48.3	1.944	2.769	14.7	21.6
<b>506488</b>	2003 <i>SU</i> <sub>429</sub>		5 22.9 294°02	1.5/23.5	17		<b>113724</b>	2002 <i>TL</i> <sub>138</sub>		5 22.9 288°80	6.1/25.6	18	
4 21	16 24.47	-24 19.5	1.848	2.716	13.0	21.6	4 21	16 25.90	-36 49.4	1.986	2.815	13.8	18.7
5 1	16 18.63	-24 31.9	1.772	2.712	9.5	21.3	5 1	16 19.92	-37 22.5	1.897	2.800	11.1	18.5
5 11	16 10.62	-24 37.2	1.719	2.707	5.6	21.1	5 11	16 11.49	-37 40.1	1.831	2.785	8.4	18.3
5 21	16 1.24	-24 35.0	1.693	2.703	1.8	20.8	5 21	16 1.41	-37 39.1	1.788	2.770	6.3	18.2
5 31	15 51.57	-24 26.2	1.693	2.698	3.6	20.9	5 31	15 50.87	-37 18.6	1.772	2.755	6.5	18.1
6 10	15 42.75	-24 13.5	1.720	2.694	7.7	21.2	6 10	15 41.17	-36 41.4	1.782	2.740	8.7	18.2
6 20	15 35.69	-24 0.1	1.772	2.689	11.5	21.4	6 20	15 33.40	-35 52.8	1.816	2.725	11.7	18.4
6 30	15 31.06	-23 49.7	1.845	2.685	14.8	21.6	6 30	15 28.31	-34 59.3	1.871	2.710	14.6	18.5
<b>250869</b>	2005 <i>UD</i> <sub>400</sub>		5 22.9 51°34	2.8/21.1	17		<b>326828</b>	2003 <i>UO</i> <sub>24</sub>		5 22.9 124°68	7.4/18.5	18	
4 21	16 19.82	-14 6.5	2.244	3.120	10.7	20.5	4 21	16 27.76	-15 19.4	0.988	1.890	18.7	20.1
5 1	16 14.76	-13 19.9	2.179	3.123	7.7	20.3	5 1	16 21.67	-12 17.3	0.938	1.894	13.7	19.8
5 11	16 8.22	-12 32.8	2.138	3.126	4.6	20.1	5 11	16 12.47	-9 5.4	0.910	1.899	9.0	19.6
5 21	16 0.84	-11 48.3	2.124	3.129	2.8	20.0	5 21	16 1.54	-6 0.1	0.905	1.903	7.6	19.5
5 31	15 53.38	-11 9.7	2.139	3.132	4.6	20.1	5 31	15 50.67	-3 19.5	0.925	1.906	11.1	19.7
6 10	15 46.61	-10 39.7	2.181	3.135	7.6	20.3	6 10	15 41.53	-1 16.6	0.968	1.910	16.0	20.0
6 20	15 41.16	-10 20.2	2.247	3.138	10.6	20.5	6 20	15 35.26	+ 0 3.9	1.028	1.913	20.5	20.3
6 30	15 37.47	-10 12.1	2.335	3.141	13.1	20.7	6 30	15 32.41	+ 0 44.2	1.104	1.917	24.2	20.6
<b>352489</b>	2008 <i>CF</i> <sub>4</sub>		5 22.9 99°20	4.3/25.5	17		<b>328910</b>	2010 <i>TP</i> <sub>167</sub>		5 22.9 178°81	0.5/23.1	17	
4 21	16 24.96	-34 58.0	2.419	3.246	11.7	20.8	4 21	16 27.42	-22 12.5	1.970	2.834	12.5	21.9
5 1	16 18.53	-35 10.6	2.355	3.261	9.1	20.6	5 1	16 20.54	-22 12.1	1.897	2.836	9.1	21.7
5 11	16 10.34	-35 10.1	2.316	3.276	6.5	20.5	5 11	16 11.60	-22 5.9	1.848	2.837	5.1	21.4
5 21	16 1.18	-34 55.5	2.302	3.291	4.5	20.4	5 21	16 1.42	-21 54.1	1.826	2.838	1.0	21.1
5 31	15 51.96	-34 27.7	2.316	3.305	4.7	20.4	5 31	15 51.03	-21 38.3	1.833	2.838	3.4	21.3
6 10	15 43.62	-33 49.7	2.358	3.319	6.7	20.6	6 10	15 41.52	-21 21.1	1.867	2.837	7.5	21.6
6 20	15 36.87	-33 5.9	2.426	3.333	9.2	20.8	6 20	15 33.75	-21 5.8	1.927	2.836	11.2	21.8
6 30	15 32.22	-32 20.9	2.517	3.347	11.6	20.9	6 30	15 28.32	-20 55.4	2.008	2.834	14.3	22.0
<b>336216</b>	2008 <i>SE</i> <sub>55</sub>		5 22.9 283°76	1.6/22.2	17		<b>457221</b>	2008 <i>KZ</i> <sub>8</sub>		5 22.9 12°59	0.9/22.0	18	
4 21	16 22.86	-18 1.8	1.774	2.654	12.9	21.4	4 21	16 14.92	-18 19.4	3.437	4.306	7.5	20.3
5 1	16 17.47	-17 34.7	1.694	2.641	9.3	21.2	5 1	16 10.90	-17 46.1	3.366	4.309	5.3	20.1
5 11	16 9.98	-17 3.7	1.637	2.629	5.3	20.9	5 11	16 5.95	-17 10.7	3.322	4.313	3.0	20.0
5 21	16 1.14	-16 31.1	1.606	2.616	1.7	20.6	5 21	16 0.49	-16 34.8	3.307	4.317	1.0	19.8
5 31	15 52.00	-16 0.0	1.601	2.603	4.3	20.8	5 31	15 54.98	-16 0.1	3.321	4.321	2.5	20.0
6 10	15 43.66	-15 34.1	1.623	2.591	8.6	21.0	6 10	15 49.90	-15 28.6	3.363	4.326	4.8	20.1
6 20	15 37.02	-15 16.4	1.669	2.578	12.6	21.2	6 20	15 45.64	-15 2.0	3.432	4.331	7.1	20.3
6 30	15 32.73	-15 9.2	1.735	2.566	16.0	21.4	6 30	15 42.53	-14 41.3	3.525	4.336	9.0	20.4
<b>395502</b>	2011 <i>UX</i> <sub>99</sub>		5 22.9 196°70	0.2/23.0	18		<b>488741</b>	2004 <i>RP</i> <sub>213</sub>		5 22.9 300°38	3.7/25.1	18	
4 21	16 21.33	-22 34.5	2.722	3.582	9.6	22.4	4 21	16 23.06	-33 8.3	2.189	3.030	12.3	21.0
5 1	16 15.72	-22 16.0	2.642	3.579	6.9	22.2	5 1	16 17.61	-32 57.2	2.083	3.000	9.5	20.8
5 11	16 8.72	-21 52.2	2.588	3.576	3.9	22.0	5 11	16 10.09	-32 31.4	1.999	2.970	6.6	20.6
5 21	16 0.92	-21 24.1	2.562	3.573	0.7	21.7	5 21	16 1.20	-31 50.0	1.942	2.940	4.1	20.4
5 31	15 53.00	-20 53.6	2.566	3.570	2.6	21.9	5 31	15 51.91	-30 54.3	1.912	2.910	4.4	20.3
6 10	15 45.67	-20 23.2	2.598	3.566	5.7	22.1	6 10	15 43.29	-29 47.9	1.910	2.880	7.3	20.4
6 20	15 39.51	-19 55.2	2.657	3.562	8.6	22.3	6 20	15 36.25	-28 36.4	1.933	2.849	10.7	20.6
6 30	15 34.97	-19 32.2	2.739	3.558	11.1	22.4	6 30	15 31.47	-27 25.8	1.979	2.819	13.9	20.7
<b>312512</b>	2009 <i>CF</i> <sub>44</sub>		5 22.9 117°07	3.7/21.3	17		<b>470699</b>	2008 <i>TZ</i> <sub>62</sub>					

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>509852</b>	2008 YR <sub>105</sub>		5 22.9 243°74	2°3/24.2	18		<b>200296</b>	2000 AV <sub>218</sub>		5 22.9 195°17	1°3/23.6	18	R
4 21	16 24.80	-28 53.4	2.378	3.225	11.2	21.8	4 21	16 24.10	-25 22.0	2.220	3.079	11.5	20.8
5 1	16 18.58	-28 48.1	2.283	3.208	8.4	21.6	5 1	16 18.03	-25 14.3	2.142	3.077	8.4	20.6
5 11	16 10.51	-28 32.6	2.212	3.192	5.3	21.4	5 11	16 10.17	-24 58.6	2.089	3.075	4.9	20.4
5 21	16 1.26	-28 6.6	2.169	3.174	2.6	21.2	5 21	16 1.23	-24 35.3	2.063	3.073	1.6	20.1
5 31	15 51.71	-27 31.3	2.155	3.156	3.4	21.2	5 31	15 52.12	-24 6.1	2.066	3.070	3.1	20.2
6 10	15 42.83	-26 49.7	2.168	3.138	6.6	21.4	6 10	15 43.77	-23 34.2	2.096	3.067	6.7	20.4
6 20	15 35.39	-26 6.0	2.208	3.119	9.9	21.5	6 20	15 36.93	-23 2.9	2.152	3.064	10.0	20.6
6 30	15 30.00	-25 24.2	2.272	3.099	12.8	21.7	6 30	15 32.14	-22 35.7	2.231	3.061	12.9	20.8
<b>392581</b>	2011 ST <sub>169</sub>		5 22.9 110°54	3°7/24.6	17		<b>386197</b>	2007 VW <sub>217</sub>		5 22.9 59°78	0°7/22.7	17	
4 21	16 25.03	-31 5.2	2.278	3.121	11.8	21.0	4 21	16 26.50	-17 9.6	1.902	2.773	12.5	20.3
5 1	16 18.77	-31 35.6	2.206	3.125	9.0	20.8	5 1	16 19.72	-17 36.3	1.853	2.796	9.0	20.1
5 11	16 10.60	-31 55.7	2.157	3.128	6.1	20.6	5 11	16 11.06	-18 2.3	1.828	2.819	5.0	19.9
5 21	16 1.26	-32 4.0	2.135	3.132	3.9	20.5	5 21	16 1.36	-18 27.3	1.830	2.842	1.0	19.6
5 31	15 51.71	-32 0.5	2.141	3.136	4.3	20.5	5 31	15 51.64	-18 51.6	1.861	2.865	3.5	19.9
6 10	15 42.93	-31 47.3	2.174	3.139	6.9	20.7	6 10	15 42.91	-19 15.9	1.919	2.888	7.4	20.2
6 20	15 35.73	-31 27.8	2.233	3.143	9.8	20.9	6 20	15 35.92	-19 41.5	2.002	2.911	10.8	20.4
6 30	15 30.69	-31 6.2	2.315	3.146	12.4	21.1	6 30	15 31.18	-20 9.4	2.107	2.934	13.7	20.6
<b>206966</b>	2004 SZ <sub>46</sub>		5 22.9 164°17	3°8/24.5	16		<b>229545</b>	2005 YU <sub>121</sub>		5 22.9 136°13	3°7/25.2	17	
4 21	16 30.27	-30 32.4	1.721	2.571	14.6	21.4	4 21	16 26.96	-33 14.1	2.087	2.924	12.9	20.8
5 1	16 22.96	-30 48.0	1.651	2.576	11.1	21.1	5 1	16 20.14	-33 3.1	2.019	2.935	9.9	20.6
5 11	16 13.10	-30 49.8	1.604	2.581	7.3	20.9	5 11	16 11.33	-32 37.3	1.974	2.944	6.7	20.4
5 21	16 1.67	-30 36.2	1.583	2.584	4.2	20.7	5 21	16 1.41	-31 56.4	1.956	2.954	4.1	20.3
5 31	15 50.03	-30 7.9	1.589	2.588	4.9	20.8	5 31	15 51.46	-31 2.5	1.966	2.963	4.4	20.3
6 10	15 39.55	-29 29.2	1.621	2.590	8.4	21.0	6 10	15 42.55	-30 0.2	2.003	2.971	7.2	20.5
6 20	15 31.28	-28 46.0	1.677	2.592	12.2	21.2	6 20	15 35.48	-28 55.2	2.066	2.979	10.3	20.7
6 30	15 25.90	-28 4.3	1.755	2.593	15.5	21.4	6 30	15 30.78	-27 53.1	2.152	2.986	13.1	20.9
<b>245152</b>	2004 RP <sub>341</sub>		5 22.9 321°59	1°0/22.4	18		<b>350987</b>	2003 FP <sub>131</sub>		5 22.9 303°43	2°8/24.1	18	
4 21	16 20.44	-18 45.1	1.974	2.852	11.8	20.7	4 21	16 24.14	-28 1.9	2.177	3.031	11.8	20.4
5 1	16 15.58	-18 26.9	1.893	2.840	8.5	20.4	5 1	16 18.23	-28 29.2	2.098	3.026	8.9	20.2
5 11	16 8.86	-18 5.2	1.836	2.828	4.8	20.2	5 11	16 10.38	-28 48.3	2.043	3.022	5.7	20.0
5 21	16 0.99	-17 41.7	1.806	2.817	1.2	19.9	5 21	16 1.28	-28 57.9	2.014	3.018	3.0	19.8
5 31	15 52.86	-17 18.7	1.802	2.805	3.7	20.1	5 31	15 51.90	-28 57.9	2.014	3.014	3.9	19.9
6 10	15 45.44	-16 59.2	1.825	2.795	7.7	20.3	6 10	15 43.24	-28 50.4	2.040	3.010	7.0	20.1
6 20	15 39.50	-16 45.9	1.873	2.784	11.3	20.5	6 20	15 36.13	-28 38.3	2.092	3.006	10.2	20.2
6 30	15 35.65	-16 40.7	1.941	2.774	14.4	20.7	6 30	15 31.19	-28 25.4	2.167	3.002	13.0	20.4
<b>276925</b>	2004 TM <sub>131</sub>		5 22.9 183°25	3°4/20.7	18		<b>79867</b>	1998 YO <sub>1</sub>		5 22.9 204°02	0°4/22.7	18	
4 21	16 22.65	-12 52.5	2.244	3.115	10.9	20.6	4 21	16 26.50	-19 44.8	2.011	2.878	12.1	19.8
5 1	16 16.79	-11 54.5	2.175	3.116	7.9	20.4	5 1	16 19.90	-19 41.5	1.932	2.873	8.8	19.6
5 11	16 9.37	-10 56.2	2.130	3.116	5.0	20.2	5 11	16 11.29	-19 34.4	1.879	2.869	4.9	19.4
5 21	16 1.06	-10 1.2	2.114	3.115	3.4	20.1	5 21	16 1.43	-19 24.2	1.852	2.863	0.8	19.1
5 31	15 52.66	-9 13.3	2.127	3.114	5.1	20.2	5 31	15 51.32	-19 12.5	1.853	2.857	3.5	19.3
6 10	15 44.98	-8 35.6	2.166	3.113	8.1	20.4	6 10	15 41.99	-19 1.7	1.883	2.851	7.6	19.5
6 20	15 38.66	-8 10.2	2.231	3.111	11.1	20.6	6 20	15 34.29	-18 54.5	1.937	2.844	11.2	19.7
6 30	15 34.19	-7 58.0	2.317	3.108	13.7	20.8	6 30	15 28.84	-18 53.0	2.014	2.836	14.4	19.9
<b>338539</b>	2003 SD <sub>8</sub>		5 22.9 261°38	1°1/22.4	17		<b>14492</b>	Bistar		5 22.9 239°03	0°1/22.8	18	
4 21	16 22.96	-19 8.5	1.973	2.847	12.0	21.8	4 21	16 23.52	-22 2.4	2.377	3.240	10.7	18.8
5 1	16 17.39	-18 42.9	1.891	2.836	8.7	21.5	5 1	16 17.55	-21 32.8	2.286	3.225	7.7	18.6
5 11	16 9.88	-18 12.9	1.833	2.824	4.9	21.3	5 11	16 9.91	-20 56.6	2.219	3.209	4.3	18.3
5 21	16 1.17	-17 40.2	1.801	2.812	1.2	21.0	5 21	16 1.21	-20 15.3	2.181	3.193	0.7	18.0
5 31	15 52.20	-17 7.7	1.797	2.800	3.8	21.2	5 31	15 52.28	-19 31.4	2.172	3.176	3.1	18.2
6 10	15 43.96	-16 38.7	1.820	2.788	7.8	21.4	6 10	15 43.97	-18 48.1	2.191	3.159	6.7	18.4
6 20	15 37.28	-16 16.4	1.868	2.776	11.5	21.6	6 20	15 37.01	-18 9.1	2.236	3.141	10.0	18.6
6 30	15 32.77	-16 3.0	1.937	2.763	14.7	21.8	6 30	15 31.93	-17 37.1	2.305	3.122	12.9	18.7
<b>208</b>	Lacrimosa		5 22.9 127°77	0°8/23.3	18		<b>99596</b>	2002 GG <sub>24</sub>		5 22.9 12°14	2°1/22.3	18	
4 21	16 23.16	-23 33.2	2.044	2.911	12.0	13.6	4 21	16 21.81	-16 58.5	1.019	1.927	17.7	18.4
5 1	16 17.44	-23 27.5	1.972	2.912	8.7	13.3	5 1	16 17.60	-16 50.3	0.969	1.930	12.8	18.1
5 11	16 9.86	-23 15.0	1.924	2.913	5.0	13.1	5 11	16 10.37	-16 40.7	0.938	1.934	7.2	17.8
5 21	16 1.17	-22 56.4	1.903	2.914	1.2	12.9	5 21	16 1.30	-16 32.0	0.929	1.939	2.2	17.5
5 31	15 52.31	-22 33.3	1.910	2.915	3.2	13.0	5 31	15 52.01	-16 27.6	0.941	1.946	5.7	17.8
6 10	15 44.27	-22 8.9	1.944	2.916	7.0	13.2	6 10	15 44.17	-16 30.8	0.976	1.954	11.2	18.1
6 20	15 37.81	-21 46.3	2.003	2.917	10.5	13.5	6 20	15 38.98	-16 43.8	1.030	1.964	16.2	18.4
6 30	15 33.49	-21 28.6	2.084	2.918	13.5	13.7	6 30	15 37.12	-17 7.5	1.101	1.974	20.3	18.7
<b>310234</b>	2011 TS <sub>5</sub>		5 22.9 185°83	0°8/23.3	18		<b>333851</b>	1995 FA <sub>6</sub>		5 22.9 6°83	3°3/23.9	17	
4 21	16 22.90	-23 1.4	2.610	3.468	10.0	20.8	4 21	16 21.24	-26 12.4	1.100	1.996	17.7	19.4
5 1	16 16.95	-23 9.5	2.532	3.468	7.2	20.6	5 1	16 17.31	-26 44.3	1.045	1.997	13.2	19.2
5 11	16 9.48	-23 12.8	2.480	3.467	4.2	20.4	5 11	16 10.28	-27 4.5	1.009	1.999	8.1	18.9
5 21	16 1.10	-23 11.6	2.456	3.467	1.1	20.2	5 21	16 1.29	-27 11.3	0.995	2.003	3.7	18.6
5 31	15 52.56	-23 6.5	2.461	3.466	2.7	20.3	5 31	15 51.99	-27 5.3	1.003	2.008	5.3	18.8
6 10	15 44.61	-22 59.3	2.495	3.464	5.9	20.5	6 10	15 44.09	-26 50.8	1.033	2.015	10.2	19.0
6 20	15 37.91	-22 52.2	2.555	3.463	8.8	20.7	6 20	15 38.86	-26 33.3	1.084	2.024	15.0	19.3
6 30	15 32.95	-22 47.3	2.639	3.461	11.4	20.9	6 30	15 37.05	-26 18.4	1.152	2.034	19.0	19.6
<b>75318</b>	1999 XN <sub>44</sub>		5 22.9 188°69	0°6/23.2	17		<b>256771</b>	2008 BD <sub>51</sub>		5 22.9 173°14	1°0/23.4	17	
4 21	16 27.44	-22 42.0	1.906	2.770									

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>340992</b>	2007 <i>EJ</i> <sub>198</sub>		5 22.9 251°88	0°3/22.6	18		<b>384412</b>	2009 <i>WJ</i> <sub>165</sub>		5 22.9 227°22	1°0/22.5	17	
4 21	16 14.60	-19 22.0	4.536	5.397	6.0	20.5	4 21	16 26.07	-17 40.6	2.072	2.939	11.8	22.4
5 1	16 10.55	-19 15.9	4.456	5.395	4.3	20.4	5 1	16 19.60	-17 42.7	1.988	2.930	8.5	22.2
5 11	16 5.75	-19 8.2	4.404	5.393	2.4	20.2	5 11	16 11.17	-17 43.1	1.930	2.920	4.8	22.0
5 21	16 0.52	-18 59.5	4.380	5.392	0.4	20.1	5 21	16 1.48	-17 42.5	1.898	2.910	1.2	21.7
5 31	15 55.23	-18 50.7	4.387	5.390	1.7	20.2	5 31	15 51.48	-17 42.2	1.896	2.899	3.6	21.8
6 10	15 50.23	-18 42.8	4.422	5.388	3.7	20.3	6 10	15 42.17	-17 44.1	1.921	2.887	7.6	22.1
6 20	15 45.85	-18 36.6	4.486	5.386	5.5	20.5	6 20	15 34.39	-17 49.8	1.971	2.875	11.2	22.3
6 30	15 42.35	-18 33.1	4.574	5.385	7.1	20.6	6 30	15 28.78	-18 1.3	2.044	2.863	14.3	22.4
<b>157323</b>	2004 <i>SU</i> <sub>57</sub>		5 22.9 326°47	5°1/19.9	18		<b>232493</b>	2003 <i>OQ</i> <sub>27</sub>		5 22.9 247°96	3°9/20.9	18	
4 21	16 20.17	-13 16.5	1.477	2.370	14.2	18.9	4 21	16 22.81	-10 56.6	2.040	2.914	11.7	20.5
5 1	16 15.76	-11 43.5	1.406	2.358	10.4	18.7	5 1	16 17.19	-10 18.3	1.961	2.902	8.7	20.3
5 11	16 9.12	-10 7.4	1.358	2.346	6.7	18.4	5 11	16 9.78	-9 41.9	1.907	2.891	5.6	20.1
5 21	16 1.10	-8 35.0	1.335	2.335	5.1	18.3	5 21	16 1.25	-9 10.6	1.880	2.879	3.9	19.9
5 31	15 52.85	-7 14.2	1.338	2.325	7.5	18.4	5 31	15 52.49	-8 47.8	1.879	2.867	5.7	20.0
6 10	15 45.53	-6 11.7	1.364	2.315	11.5	18.6	6 10	15 44.41	-8 35.9	1.906	2.855	8.9	20.2
6 20	15 40.09	-5 31.0	1.412	2.305	15.4	18.8	6 20	15 37.77	-8 36.3	1.956	2.842	12.1	20.4
6 30	15 37.14	-5 13.0	1.478	2.297	18.8	19.0	6 30	15 33.14	-8 49.4	2.028	2.829	15.0	20.5
<b>36803</b>	2000 <i>ST</i> <sub>54</sub>		5 22.9 29°29	0°4/22.7	18		<b>389118</b>	2008 <i>YW</i> <sub>105</sub>		5 22.9 215°59	3°1/21.2	18	
4 21	16 23.63	-20 59.5	1.587	2.468	14.0	18.8	4 21	16 23.02	-10 59.5	2.569	3.433	9.9	21.9
5 1	16 18.13	-20 39.9	1.523	2.471	10.1	18.5	5 1	16 17.02	-10 35.7	2.488	3.424	7.3	21.7
5 11	16 10.39	-20 14.1	1.482	2.474	5.6	18.3	5 11	16 9.56	-10 13.8	2.432	3.415	4.6	21.5
5 21	16 1.30	-19 43.7	1.465	2.477	0.9	17.9	5 21	16 1.21	-9 56.1	2.405	3.405	3.1	21.4
5 31	15 52.07	-19 11.9	1.475	2.481	4.0	18.2	5 31	15 52.68	-9 44.4	2.406	3.394	4.6	21.5
6 10	15 43.87	-18 42.7	1.511	2.484	8.6	18.5	6 10	15 44.70	-9 40.6	2.436	3.383	7.3	21.6
6 20	15 37.64	-18 19.9	1.570	2.488	12.6	18.7	6 20	15 37.89	-9 45.7	2.492	3.372	10.1	21.8
6 30	15 33.96	-18 6.3	1.649	2.492	16.1	18.9	6 30	15 32.74	-9 59.9	2.570	3.359	12.5	21.9
<b>161405</b>	2003 <i>UF</i> <sub>202</sub>		5 22.9 283°90	5°1/19.9	18		<b>417513</b>	2006 <i>SZ</i> <sub>282</sub>		5 22.9 221°39	0°6/23.2	17	
4 21	16 22.44	-8 55.6	1.962	2.837	12.1	19.9	4 21	16 27.34	-22 27.9	1.925	2.790	12.7	22.1
5 1	16 17.10	-7 57.9	1.869	2.808	9.2	19.6	5 1	16 20.69	-22 27.9	1.842	2.781	9.3	21.9
5 11	16 9.82	-7 2.0	1.800	2.779	6.4	19.4	5 11	16 11.85	-22 21.7	1.783	2.772	5.3	21.6
5 21	16 1.24	-6 12.2	1.758	2.750	5.2	19.3	5 21	16 1.61	-22 9.5	1.750	2.762	1.1	21.3
5 31	15 52.25	-5 33.3	1.742	2.721	7.0	19.3	5 31	15 51.03	-21 52.6	1.746	2.751	3.5	21.4
6 10	15 43.84	-5 9.0	1.752	2.691	10.2	19.4	6 10	15 41.25	-21 33.9	1.769	2.740	7.8	21.7
6 20	15 36.86	-5 1.2	1.785	2.661	13.6	19.6	6 20	15 33.20	-21 16.8	1.817	2.728	11.6	21.9
6 30	15 31.97	-5 10.2	1.839	2.630	16.7	19.7	6 30	15 27.57	-21 4.7	1.887	2.715	15.0	22.1
<b>343036</b>	2009 <i>BZ</i> <sub>140</sub>		5 22.9 264°29	3°7/21.1	18		<b>374447</b>	2005 <i>WM</i> <sub>208</sub>		5 22.9 227°96	1°6/23.7	18	
4 21	16 24.00	-10 9.5	2.253	3.120	11.0	21.2	4 21	16 26.46	-26 13.0	2.259	3.111	11.5	22.0
5 1	16 18.02	-9 45.4	2.158	3.095	8.2	21.0	5 1	16 19.87	-26 11.4	2.167	3.098	8.5	21.8
5 11	16 10.25	-9 24.0	2.087	3.069	5.3	20.8	5 11	16 11.32	-26 1.3	2.101	3.085	5.2	21.6
5 21	16 1.31	-9 7.7	2.044	3.043	3.7	20.6	5 21	16 1.53	-25 42.4	2.062	3.070	2.0	21.3
5 31	15 51.99	-8 59.2	2.030	3.017	5.4	20.7	5 31	15 51.43	-25 16.1	2.052	3.055	3.3	21.4
6 10	15 43.20	-9 0.3	2.043	2.990	8.5	20.8	6 10	15 42.01	-24 45.1	2.070	3.040	6.9	21.6
6 20	15 35.68	-9 12.2	2.081	2.962	11.7	21.0	6 20	15 34.11	-24 13.1	2.114	3.023	10.3	21.8
6 30	15 30.07	-9 35.1	2.140	2.934	14.6	21.1	6 30	15 28.35	-23 44.0	2.181	3.006	13.3	22.0
<b>202552</b>	2006 <i>DB</i> <sub>196</sub>		5 22.9 8°57	4°6/21.9	17		<b>11573</b>	Helmholtz		5 22.9 153°57	0°7/23.4	18	
4 21	16 24.01	-11 9.6	1.036	1.939	17.9	19.0	4 21	16 21.29	-24 14.7	3.187	4.038	8.5	19.4
5 1	16 19.18	-11 8.8	0.983	1.940	13.2	18.8	5 1	16 15.54	-24 4.2	3.114	4.046	6.2	19.3
5 11	16 11.29	-11 15.3	0.950	1.941	8.1	18.5	5 11	16 8.63	-23 48.5	3.068	4.054	3.6	19.1
5 21	16 1.49	-11 32.1	0.938	1.944	4.6	18.3	5 21	16 1.07	-23 28.3	3.051	4.062	1.0	18.9
5 31	15 51.39	-12 1.2	0.949	1.948	7.2	18.5	5 31	15 53.45	-23 4.8	3.064	4.069	2.2	19.0
6 10	15 42.69	-12 43.0	0.981	1.953	12.1	18.7	6 10	15 46.36	-22 40.0	3.107	4.075	4.9	19.2
6 20	15 36.63	-13 36.5	1.033	1.959	16.9	19.0	6 20	15 40.32	-22 16.1	3.177	4.081	7.4	19.4
6 30	15 33.95	-14 39.8	1.102	1.966	21.0	19.3	6 30	15 35.69	-21 55.0	3.271	4.087	9.5	19.6
<b>72396</b>	2001 <i>CU</i> <sub>20</sub>		5 22.9 147°12	8°1/20.8	18		<b>416234</b>	2003 <i>BW</i>		5 22.9 99°75	0°8/23.2	18	
4 21	16 30.33	+ 2 51.8	1.942	2.778	13.8	18.0	4 21	16 29.93	-21 47.7	1.843	2.706	13.2	20.6
5 1	16 22.38	+ 3 2.6	1.886	2.789	11.2	17.9	5 1	16 22.32	-22 12.6	1.791	2.729	9.5	20.4
5 11	16 12.55	+ 2 57.9	1.854	2.799	9.0	17.8	5 11	16 12.60	-22 32.3	1.762	2.751	5.4	20.2
5 21	16 1.66	+ 2 34.7	1.848	2.808	8.1	17.7	5 21	16 1.72	-22 46.2	1.761	2.772	1.3	19.9
5 31	15 50.73	+ 1 51.7	1.869	2.816	9.0	17.8	5 31	15 50.81	-22 54.7	1.788	2.793	3.5	20.1
6 10	15 40.76	+ 0 50.3	1.917	2.824	11.2	18.0	6 10	15 41.00	-22 59.9	1.843	2.814	7.5	20.4
6 20	15 32.53	- 0 26.5	1.989	2.831	13.8	18.1	6 20	15 33.13	-23 4.2	1.924	2.834	11.1	20.7
6 30	15 26.56	- 1 54.9	2.082	2.837	16.1	18.3	6 30	15 27.75	-23 10.6	2.026	2.853	14.1	20.9
<b>397096</b>	2005 <i>UL</i> <sub>439</sub>		5 22.9 161°21	4°6/24.9	17		<b>360326</b>	2001 <i>TE</i> <sub>100</sub>		5 22.9 255°46	4°3/24.2	17	
4 21	16 27.07	-34 13.4	2.576	3.399	11.2	21.0	4 21	16 29.83	-29 19.2	1.477	2.339	16.0	21.0
5 1	16 20.23	-35 3.4	2.499	3.402	8.8	20.8	5 1	16 23.33	-29 56.6	1.396	2.328	12.2	20.7
5 11	16 11.48	-35 43.0	2.447	3.404	6.4	20.7	5 11	16 13.72	-30 22.1	1.337	2.316	8.1	20.4
5 21	16 1.52	-36 9.5	2.422	3.406	4.7	20.6	5 21	16 1.97	-30 32.2	1.302	2.304	4.6	20.2
5 31	15 51.24	-36 22.1	2.425	3.407	5.0	20.6	5 31	15 49.58	-30 25.6	1.292	2.292	5.6	20.2
6 10	15 41.63	-36 22.0	2.456	3.409	6.9	20.7	6 10	15 38.23	-30 5.6	1.308	2.280	9.8	20.4
6 20	15 33.50	-36 12.3	2.513	3.410	9.3	20.9	6 20	15 29.30	-29 37.7	1.346	2.267	14.1	20.6
6 30	15 27.46	-35 57.1	2.593	3.412	11.6	21.0	6 30	15 23.72	-29 9.0	1.404	2.254	18.1	20.8
<b>191280</b>	2003 <i>EZ</i> <sub>56</sub>		5 22.9 355°54	4°7/22.7	17		<b>506581</b>	2005 <i>VQ</i> <sub>58</sub>		5 22.9 282°05	2°2/23.9		

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>390754</b>	2003 <i>SP</i> <sub>308</sub>		5 22.9 217°68	5°3/25.9	18		<b>381528</b>	2008 <i>SV</i> <sub>236</sub>		5 22.9 164°37	1°3/23.6	17	
4 21	16 27.62	-38 16.8	2.513	3.321	11.9	22.2	4 21	16 24.95	-25 10.5	2.134	2.994	11.8	21.7
5 1	16 20.73	-38 35.4	2.423	3.312	9.6	22.1	5 1	16 18.72	-25 6.4	2.062	2.997	8.7	21.5
5 11	16 11.82	-38 39.3	2.357	3.302	7.3	21.9	5 11	16 10.65	-24 54.4	2.014	3.000	5.1	21.3
5 21	16 1.64	-38 26.5	2.317	3.293	5.6	21.8	5 21	16 1.47	-24 34.8	1.993	3.003	1.7	21.1
5 31	15 51.18	-37 56.8	2.304	3.282	5.6	21.7	5 31	15 52.15	-24 9.3	2.000	3.005	3.2	21.2
6 10	15 41.50	-37 13.0	2.319	3.271	7.3	21.8	6 10	15 43.64	-23 40.9	2.035	3.007	6.8	21.4
6 20	15 33.43	-36 19.5	2.360	3.259	9.8	22.0	6 20	15 36.73	-23 13.1	2.096	3.008	10.2	21.7
6 30	15 27.62	-35 22.1	2.425	3.247	12.2	22.1	6 30	15 31.95	-22 49.2	2.179	3.010	13.1	21.9
<b>506332</b>	2017 <i>OM</i> <sub>20</sub>		5 22.9 244°75	0°5/23.1	17		<b>159511</b>	2000 <i>YG</i> <sub>30</sub>		5 22.9 158°60	7°1/18.4	17	
4 21	16 27.68	-22 28.2	1.756	2.624	13.5	21.9	4 21	16 22.89	+ 1 38.7	2.469	3.312	11.0	21.0
5 1	16 21.20	-22 23.3	1.668	2.609	9.9	21.6	5 1	16 16.83	+ 2 38.2	2.416	3.320	9.0	20.9
5 11	16 12.29	-22 11.4	1.604	2.593	5.7	21.4	5 11	16 9.42	+ 3 27.3	2.387	3.327	7.5	20.8
5 21	16 1.76	-21 52.8	1.565	2.577	1.1	21.0	5 21	16 1.27	+ 4 2.2	2.385	3.334	7.2	20.8
5 31	15 50.76	-21 29.0	1.554	2.559	3.8	21.2	5 31	15 53.07	+ 4 20.1	2.410	3.340	8.2	20.9
6 10	15 40.58	-21 3.7	1.570	2.542	8.5	21.4	6 10	15 45.55	+ 4 19.8	2.460	3.345	10.0	21.0
6 20	15 32.28	-20 40.8	1.610	2.523	12.7	21.6	6 20	15 39.26	+ 4 2.3	2.534	3.350	11.9	21.2
6 30	15 26.60	-20 24.2	1.671	2.504	16.4	21.8	6 30	15 34.62	+ 3 29.3	2.628	3.354	13.8	21.3
<b>183570</b>	2003 <i>QJ</i> <sub>3</sub>		5 22.9 197°36	0°4/22.8	16		<b>468691</b>	2009 <i>ST</i> <sub>353</sub>		5 22.9 17°06	4°6/20.2	17	
4 21	16 27.16	-21 0.6	1.916	2.783	12.7	21.7	4 21	16 21.52	-14 59.5	1.423	2.315	14.6	20.1
5 1	16 20.46	-20 38.6	1.839	2.780	9.1	21.5	5 1	16 16.68	-13 18.2	1.365	2.318	10.6	19.9
5 11	16 11.68	-20 10.4	1.786	2.777	5.1	21.2	5 11	16 9.62	-11 33.1	1.331	2.321	6.6	19.6
5 21	16 1.64	-19 37.4	1.761	2.772	0.9	20.9	5 21	16 1.31	- 9 51.8	1.322	2.324	4.6	19.5
5 31	15 51.37	-19 2.4	1.763	2.767	3.7	21.1	5 31	15 52.95	- 8 22.5	1.339	2.329	7.1	19.7
6 10	15 41.98	-18 29.0	1.793	2.761	7.9	21.3	6 10	15 45.70	- 7 11.8	1.380	2.333	11.1	19.9
6 20	15 34.33	-18 0.8	1.848	2.755	11.7	21.5	6 20	15 40.43	- 6 23.5	1.442	2.338	15.0	20.2
6 30	15 29.04	-17 40.9	1.925	2.748	14.9	21.7	6 30	15 37.70	- 5 58.0	1.523	2.344	18.3	20.4
<b>344458</b>	2002 <i>MT</i> <sub>6</sub>		5 22.9 337°72	0°1/22.9	17		<b>360370</b>	2002 <i>AX</i> <sub>157</sub>		5 22.9 32°72	4°3/25.4	17	
4 21	16 21.39	-22 16.5	1.544	2.429	14.2	20.5	4 21	16 23.08	-33 29.5	1.849	2.698	13.8	19.8
5 1	16 16.75	-21 54.9	1.470	2.419	10.3	20.2	5 1	16 17.65	-33 30.9	1.789	2.709	10.7	19.6
5 11	16 9.77	-21 25.2	1.419	2.411	5.8	19.9	5 11	16 10.12	-33 17.0	1.751	2.722	7.3	19.4
5 21	16 1.33	-20 49.1	1.391	2.403	1.0	19.6	5 21	16 1.39	-32 47.1	1.738	2.734	4.7	19.3
5 31	15 52.60	-20 9.8	1.390	2.396	4.0	19.8	5 31	15 52.62	-32 3.2	1.751	2.748	4.9	19.3
6 10	15 44.82	-19 32.1	1.413	2.389	8.7	20.0	6 10	15 44.92	-31 9.8	1.791	2.761	7.7	19.5
6 20	15 38.97	-19 0.3	1.460	2.383	13.0	20.3	6 20	15 39.12	-30 12.6	1.854	2.775	10.9	19.7
6 30	15 35.73	-18 38.1	1.526	2.378	16.7	20.5	6 30	15 35.76	-29 17.4	1.940	2.790	13.8	20.0
<b>43089</b>	1999 <i>WP</i> <sub>12</sub>		5 22.9 341°03	5°6/18.8	18		<b>431380</b>	2007 <i>EN</i> <sub>136</sub>		5 22.9 184°73	6°9/26.0	17	
4 21	16 19.23	- 8 5.2	2.051	2.927	11.5	18.4	4 21	16 31.02	-39 38.9	2.085	2.893	14.0	22.2
5 1	16 14.53	- 6 33.1	1.985	2.924	8.7	18.2	5 1	16 23.61	-40 24.8	2.008	2.893	11.5	22.0
5 11	16 8.25	- 5 3.6	1.946	2.920	6.4	18.1	5 11	16 13.63	-40 53.8	1.954	2.893	9.0	21.9
5 21	16 1.06	- 3 42.5	1.933	2.917	5.7	18.0	5 21	16 2.01	-41 1.9	1.924	2.892	7.2	21.8
5 31	15 53.77	- 2 35.0	1.947	2.914	7.3	18.1	5 31	15 50.02	-40 48.0	1.921	2.891	7.2	21.7
6 10	15 47.19	- 1 44.9	1.986	2.911	10.0	18.3	6 10	15 39.03	-40 14.8	1.944	2.889	9.0	21.9
6 20	15 41.97	- 1 14.1	2.049	2.909	12.7	18.4	6 20	15 30.13	-39 27.9	1.992	2.887	11.5	22.0
6 30	15 38.60	- 1 2.2	2.131	2.907	15.2	18.6	6 30	15 24.04	-38 34.4	2.061	2.885	14.0	22.2
<b>371677</b>	2007 <i>DC</i> <sub>13</sub>		5 22.9 164°03	3°9/24.8	17		<b>424077</b>	2007 <i>DR</i> <sub>30</sub>		5 22.9 354°85	4°3/21.3	17	
4 21	16 28.69	-32 13.4	2.156	2.992	12.6	21.8	4 21	16 20.64	-12 54.7	1.285	2.184	15.4	20.5
5 1	16 21.51	-32 29.7	2.083	2.998	9.7	21.6	5 1	16 16.38	-12 15.7	1.224	2.179	11.3	20.2
5 11	16 12.25	-32 33.5	2.034	3.003	6.6	21.4	5 11	16 9.63	-11 38.3	1.184	2.175	7.0	20.0
5 21	16 1.73	-32 23.2	2.011	3.008	4.1	21.3	5 21	16 1.34	-11 7.0	1.167	2.172	4.3	19.8
5 31	15 51.03	-31 59.4	2.017	3.011	4.6	21.3	5 31	15 52.80	-10 46.5	1.174	2.171	6.8	19.9
6 10	15 41.25	-31 25.4	2.050	3.015	7.3	21.5	6 10	15 45.35	-10 40.4	1.204	2.170	11.1	20.2
6 20	15 33.27	-30 45.7	2.109	3.017	10.4	21.7	6 20	15 40.01	-10 50.0	1.255	2.170	15.4	20.4
6 30	15 27.68	-30 5.4	2.190	3.019	13.1	21.9	6 30	15 37.45	-11 15.0	1.324	2.172	19.1	20.7
<b>231896</b>	2000 <i>WY</i> <sub>117</sub>		5 22.9 264°38	4°4/25.2	18		<b>95596</b>	2002 <i>FL</i> <sub>16</sub>		5 22.9 302°30	9°2/15.9	18	
4 21	16 26.77	-34 1.5	2.047	2.883	13.2	19.9	4 21	16 18.89	+ 6 26.4	2.302	3.139	11.9	19.4
5 1	16 20.48	-34 4.2	1.949	2.862	10.3	19.7	5 1	16 14.18	+ 7 47.9	2.244	3.132	10.3	19.3
5 11	16 11.86	-33 51.7	1.874	2.841	7.3	19.5	5 11	16 8.04	+ 8 56.2	2.210	3.125	9.3	19.2
5 21	16 1.69	-33 22.2	1.825	2.819	4.8	19.3	5 21	16 1.06	+ 9 45.9	2.200	3.118	9.3	19.2
5 31	15 51.10	-32 36.2	1.803	2.797	5.1	19.2	5 31	15 53.95	+10 13.3	2.214	3.111	10.4	19.3
6 10	15 41.31	-31 37.5	1.808	2.775	7.9	19.4	6 10	15 47.45	+10 17.2	2.252	3.104	12.0	19.3
6 20	15 33.32	-30 31.9	1.838	2.752	11.4	19.5	6 20	15 42.16	+ 9 58.4	2.310	3.097	13.8	19.5
6 30	15 27.87	-29 26.1	1.891	2.729	14.6	19.7	6 30	15 38.53	+ 9 19.6	2.386	3.091	15.5	19.6
<b>215390</b>	2002 <i>CE</i> <sub>137</sub>		5 22.9 186°13	3°4/20.4	18		<b>397322</b>	2006 <i>SU</i> <sub>404</sub>		5 22.9 98°60	0°6/22.6	18	
4 21	16 20.34	- 8 19.3	3.201	4.059	8.3	21.5	4 21	16 21.77	-20 51.9	2.241	3.110	11.0	21.1
5 1	16 14.84	- 7 44.8	3.128	4.059	6.2	21.4	5 1	16 16.25	-20 15.9	2.176	3.119	7.8	20.9
5 11	16 8.26	- 7 13.1	3.082	4.058	4.2	21.3	5 11	16 9.18	-19 34.7	2.137	3.128	4.4	20.7
5 21	16 1.07	- 6 46.3	3.065	4.056	3.4	21.2	5 21	16 1.24	-18 50.4	2.125	3.136	0.8	20.5
5 31	15 53.79	- 6 26.5	3.078	4.054	4.4	21.3	5 31	15 53.27	-18 5.9	2.141	3.145	3.2	20.7
6 10	15 46.97	- 6 15.0	3.118	4.051	6.5	21.4	6 10	15 46.07	-17 24.7	2.185	3.153	6.7	20.9
6 20	15 41.07	- 6 12.6	3.185	4.048	8.6	21.5	6 20	15 40.28	-16 49.7	2.255	3.161	9.9	21.1
6 30	15 36.46	- 6 19.3	3.275	4.044	10.5	21.7	6 30	15 36.35	-16 23.2	2.347	3.170	12.6	21.3
<b>155515</b>	1999 <i>RZ</i> <sub>190</sub>		5 22.9 317°25	0°3/22.8	17		<b>159211</b>						

EPHEMERIDES

5 22.9

5 22.9

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>276148</b>	2002 <i>JQ</i> <sub>80</sub>		5 22.9 320°39	4.4/24.0	17		<b>201839</b>	2003 <i>YH</i> <sub>72</sub>		5 22.9 52°20	0.8/23.3	18	
4 21	16 27.45	-28 52.7	1.639	2.500	14.7	19.8	4 21	16 23.95	-23 1.2	1.832	2.703	12.9	20.0
5 1	16 21.41	-29 53.8	1.560	2.490	11.3	19.5	5 1	16 18.21	-23 2.6	1.769	2.711	9.4	19.8
5 11	16 12.60	-30 46.2	1.503	2.480	7.6	19.3	5 11	16 10.44	-22 57.5	1.729	2.718	5.4	19.6
5 21	16 1.87	-31 25.9	1.470	2.470	4.7	19.1	5 21	16 1.50	-22 46.3	1.715	2.726	1.3	19.3
5 31	15 50.53	-31 50.7	1.464	2.461	5.6	19.1	5 31	15 52.42	-22 30.7	1.728	2.734	3.4	19.5
6 10	15 40.05	-32 1.7	1.484	2.452	9.1	19.3	6 10	15 44.27	-22 13.7	1.768	2.742	7.5	19.8
6 20	15 31.67	-32 2.7	1.526	2.444	13.0	19.5	6 20	15 37.88	-21 58.5	1.832	2.750	11.2	20.0
6 30	15 26.29	-31 58.8	1.589	2.436	16.5	19.7	6 30	15 33.82	-21 47.9	1.918	2.758	14.3	20.2
<b>277444</b>	2005 <i>UF</i> <sub>460</sub>		5 22.9 109°49	0.7/23.3	17		<b>162019</b>	1995 <i>DZ</i> <sub>4</sub>		5 22.9 176°37	1°1/22.5	17	
4 21	16 25.51	-23 58.0	1.840	2.707	13.1	21.5	4 21	16 27.54	-19 9.2	1.756	2.628	13.4	21.2
5 1	16 19.24	-23 40.9	1.778	2.718	9.5	21.2	5 1	16 20.83	-18 44.4	1.687	2.630	9.6	21.0
5 11	16 10.96	-23 15.6	1.740	2.729	5.4	21.0	5 11	16 11.94	-18 14.8	1.641	2.632	5.4	20.7
5 21	16 1.55	-22 43.3	1.729	2.740	1.3	20.8	5 21	16 1.76	-17 42.4	1.622	2.633	1.3	20.4
5 31	15 52.07	-22 6.5	1.745	2.750	3.4	20.9	5 31	15 51.40	-17 10.3	1.631	2.634	4.1	20.6
6 10	15 43.62	-21 29.3	1.788	2.760	7.5	21.2	6 10	15 42.02	-16 42.1	1.666	2.633	8.4	20.9
6 20	15 36.98	-20 55.6	1.855	2.770	11.2	21.4	6 20	15 34.52	-16 21.2	1.726	2.633	12.4	21.1
6 30	15 32.70	-20 28.9	1.945	2.780	14.3	21.7	6 30	15 29.52	-16 10.0	1.807	2.631	15.7	21.3
<b>165219</b>	2000 <i>SQ</i> <sub>39</sub>		5 22.9 284°73	3°0/21.9	18		<b>397348</b>	2006 <i>UH</i> <sub>70</sub>		5 22.9 174°05	2°9/20.5	18	
4 21	16 25.76	-14 50.4	1.418	2.305	15.1	19.8	4 21	16 20.41	-11 32.4	3.130	3.992	8.4	21.8
5 1	16 20.22	-14 29.6	1.335	2.284	11.1	19.5	5 1	16 14.91	-10 38.2	3.059	3.995	6.1	21.6
5 11	16 11.94	-14 8.1	1.273	2.264	6.6	19.2	5 11	16 8.33	-9 44.7	3.016	3.998	4.0	21.5
5 21	16 1.77	-13 48.9	1.235	2.243	3.1	18.9	5 21	16 1.14	-8 54.3	3.003	4.000	2.9	21.4
5 31	15 50.99	-13 35.3	1.222	2.222	5.8	19.0	5 31	15 53.91	-8 9.8	3.019	4.001	4.1	21.5
6 10	15 41.07	-13 31.0	1.234	2.202	10.7	19.2	6 10	15 47.18	-7 33.3	3.064	4.002	6.4	21.6
6 20	15 33.22	-13 38.2	1.268	2.181	15.5	19.5	6 20	15 41.42	-7 6.3	3.135	4.002	8.6	21.8
6 30	15 28.32	-13 58.5	1.321	2.160	19.6	19.7	6 30	15 36.97	-6 49.5	3.230	4.002	10.5	21.9
<b>389241</b>	2009 <i>FJ</i> <sub>12</sub>		5 22.9 156°71	0°3/22.8	17		<b>60123</b>	1999 <i>TU</i> <sub>240</sub>		5 22.9 307°55	3°1/21.4	18	
4 21	16 22.62	-20 48.1	2.271	3.139	10.9	21.8	4 21	16 20.69	-12 49.7	2.074	2.951	11.4	18.8
5 1	16 16.92	-20 31.6	2.200	3.141	7.8	21.7	5 1	16 15.75	-12 24.0	1.992	2.937	8.3	18.6
5 11	16 9.60	-20 10.6	2.154	3.144	4.4	21.4	5 11	16 9.07	-11 59.3	1.935	2.922	5.1	18.4
5 21	16 1.33	-19 46.2	2.135	3.146	0.7	21.2	5 21	16 1.29	-11 38.1	1.904	2.908	3.1	18.2
5 31	15 52.94	-19 20.6	2.144	3.149	3.1	21.4	5 31	15 53.25	-11 23.2	1.900	2.894	4.9	18.3
6 10	15 45.27	-18 56.4	2.182	3.151	6.6	21.6	6 10	15 45.84	-11 16.8	1.923	2.880	8.2	18.5
6 20	15 39.00	-18 36.3	2.245	3.153	9.8	21.8	6 20	15 39.80	-11 20.3	1.970	2.867	11.5	18.7
6 30	15 34.62	-18 22.3	2.330	3.154	12.6	22.0	6 30	15 35.70	-11 34.5	2.038	2.853	14.5	18.8
<b>268564</b>	2006 <i>BY</i> <sub>47</sub>		5 22.9 307°87	0°8/23.3	17		<b>22631</b>	Dillard		5 22.9 136°68	1°3/22.3	18	
4 21	16 24.15	-23 12.8	1.676	2.551	13.7	20.8	4 21	16 26.09	-19 35.6	1.671	2.547	13.7	18.2
5 1	16 18.65	-23 11.2	1.600	2.544	10.0	20.6	5 1	16 19.79	-18 56.6	1.608	2.554	9.8	18.0
5 11	16 10.84	-23 2.2	1.547	2.537	5.8	20.3	5 11	16 11.34	-18 11.8	1.570	2.561	5.5	17.8
5 21	16 1.56	-22 46.2	1.519	2.530	1.4	20.0	5 21	16 1.65	-17 24.2	1.557	2.568	1.4	17.5
5 31	15 51.96	-22 25.0	1.518	2.524	3.7	20.2	5 31	15 51.90	-16 37.7	1.572	2.574	4.3	17.7
6 10	15 43.28	-22 2.0	1.542	2.517	8.2	20.4	6 10	15 43.21	-15 56.9	1.613	2.580	8.6	18.0
6 20	15 36.48	-21 41.2	1.591	2.511	12.4	20.6	6 20	15 36.45	-15 25.5	1.677	2.586	12.5	18.2
6 30	15 32.26	-21 26.2	1.660	2.505	15.9	20.9	6 30	15 32.19	-15 5.8	1.763	2.591	15.8	18.5
<b>192809</b>	1999 <i>VW</i> <sub>61</sub>		5 22.9 231°74	0°6/22.6	18		<b>170667</b>	2003 <i>YR</i> <sub>152</sub>		5 22.9 334°77	2°8/21.8	17	
4 21	16 23.77	-20 31.0	2.305	3.170	10.9	21.3	4 21	16 22.02	-14 11.8	1.721	2.604	13.0	19.5
5 1	16 17.81	-20 2.2	2.218	3.158	7.8	21.1	5 1	16 16.95	-13 54.3	1.649	2.597	9.5	19.3
5 11	16 10.15	-19 28.0	2.156	3.146	4.4	20.8	5 11	16 9.83	-13 37.4	1.600	2.591	5.6	19.0
5 21	16 1.44	-18 50.1	2.121	3.132	0.9	20.6	5 21	16 1.43	-13 23.6	1.577	2.585	2.8	18.8
5 31	15 52.49	-18 10.9	2.115	3.119	3.3	20.7	5 31	15 52.77	-13 15.5	1.580	2.579	5.0	19.0
6 10	15 44.20	-17 33.7	2.138	3.105	6.9	20.9	6 10	15 44.93	-13 15.5	1.609	2.574	8.9	19.2
6 20	15 37.27	-17 1.6	2.187	3.090	10.3	21.1	6 20	15 38.78	-13 25.0	1.661	2.569	12.7	19.4
6 30	15 32.26	-16 37.3	2.258	3.075	13.2	21.3	6 30	15 34.93	-13 44.7	1.733	2.564	16.0	19.6
<b>98470</b>	2000 <i>US</i> <sub>94</sub>		5 22.9 230°83	2°4/23.9	17		<b>462592</b>	2009 <i>HC</i> <sub>3</sub>		5 22.9 21°34	4°3/23.8	17	
4 21	16 27.49	-27 38.7	1.629	2.493	14.6	19.9	4 21	16 27.68	-26 8.8	1.101	1.989	18.3	19.9
5 1	16 21.19	-27 30.1	1.550	2.486	10.9	19.6	5 1	16 22.14	-27 20.3	1.049	1.996	13.7	19.7
5 11	16 12.32	-27 8.7	1.494	2.478	6.7	19.3	5 11	16 13.18	-28 22.2	1.017	2.003	8.7	19.4
5 21	16 1.81	-26 34.2	1.463	2.471	2.8	19.1	5 21	16 2.02	-29 9.6	1.006	2.011	4.7	19.2
5 31	15 50.98	-25 48.8	1.458	2.462	4.2	19.2	5 31	15 50.46	-29 40.0	1.019	2.021	6.1	19.3
6 10	15 41.18	-24 57.4	1.479	2.454	8.6	19.4	6 10	15 40.42	-29 55.5	1.054	2.032	10.7	19.6
6 20	15 33.51	-24 6.1	1.525	2.445	12.8	19.6	6 20	15 33.33	-30 1.1	1.110	2.043	15.4	19.9
6 30	15 28.69	-23 20.8	1.591	2.435	16.5	19.8	6 30	15 30.00	-30 3.2	1.184	2.055	19.3	20.2
<b>494188</b>	2016 <i>GZ</i> <sub>248</sub>		5 22.9 37°55	2°1/22.1	17		<b>296322</b>	2009 <i>ER</i> <sub>14</sub>		5 22.9 229°13	0°5/23.2	18	
4 21	16 24.13	-17 45.9	1.417	2.305	15.0	20.9	4 21	16 23.42	-22 51.3	2.276	3.139	11.1	21.1
5 1	16 18.68	-17 8.2	1.358	2.309	10.8	20.7	5 1	16 17.62	-22 46.0	2.195	3.133	8.0	20.9
5 11	16 10.83	-16 26.5	1.320	2.313	6.1	20.4	5 11	16 10.08	-22 35.0	2.138	3.127	4.6	20.6
5 21	16 1.55	-15 44.1	1.307	2.317	2.2	20.2	5 21	16 1.47	-22 18.8	2.108	3.120	1.0	20.3
5 31	15 52.14	-15 5.5	1.320	2.322	5.1	20.4	5 31	15 52.64	-21 58.8	2.107	3.113	3.0	20.5
6 10	15 43.89	-14 35.4	1.357	2.326	9.7	20.6	6 10	15 44.48	-21 37.7	2.134	3.105	6.6	20.7
6 20	15 37.74	-14 16.8	1.416	2.331	14.0	20.9	6 20	15 37.73	-21 18.3	2.187	3.098	9.9	20.9
6 30	15 34.33	-14 11.6	1.495	2.336	17.6	21.1	6 30	15 32.94	-21 3.2	2.262	3.090	12.8	21.1
<b>471687</b>	2012 <i>TR</i> <sub>211</sub>		5 22.9 254°74	1°4/23.7	17		<b>336472</b>	2008 <i>VX</i> <sub>19</sub>		5			

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>505722</b>	2015 AZ <sub>237</sub>		5 22.9 44°69	5°4/25.9	17		<b>257660</b>	1999 VS <sub>39</sub>		5 22.9 292°20	3°5/23.9	18	
4 21	16 25.99	-35 42.1	1.485	2.335	16.5	20.8	4 21	16 27.95	-27 24.6	1.470	2.339	15.6	20.2
5 1	16 20.11	-35 30.9	1.431	2.351	12.9	20.6	5 1	16 22.22	-27 57.1	1.374	2.311	11.9	19.9
5 11	16 11.62	-34 58.2	1.398	2.367	9.0	20.4	5 11	16 13.34	-28 20.0	1.300	2.283	7.6	19.6
5 21	16 1.71	-34 3.6	1.388	2.383	5.9	20.3	5 21	16 2.12	-28 30.3	1.249	2.255	3.9	19.3
5 31	15 51.87	-32 50.6	1.404	2.400	5.9	20.3	5 31	15 49.95	-28 26.7	1.223	2.226	5.3	19.3
6 10	15 43.50	-31 26.6	1.444	2.417	8.9	20.5	6 10	15 38.52	-28 11.4	1.223	2.197	10.0	19.5
6 20	15 37.58	-30 0.2	1.508	2.435	12.5	20.8	6 20	15 29.32	-27 49.6	1.245	2.169	14.8	19.7
6 30	15 34.61	-28 39.4	1.594	2.453	15.8	21.0	6 30	15 23.44	-27 27.8	1.286	2.140	19.1	19.9
<b>86353</b>	1999 XX <sub>113</sub>		5 22.9 260°02	4°1/25.7	18		<b>306064</b>	2010 GQ <sub>95</sub>		5 22.9 272°23	2°4/24.4	18	
4 21	16 24.52	-36 10.4	2.820	3.636	10.5	20.4	4 21	16 22.97	-29 17.8	2.242	3.093	11.6	20.7
5 1	16 18.37	-36 11.5	2.716	3.614	8.4	20.2	5 1	16 17.42	-29 7.8	2.154	3.082	8.8	20.5
5 11	16 10.50	-35 59.9	2.636	3.591	6.1	20.1	5 11	16 10.03	-28 46.8	2.090	3.070	5.6	20.3
5 21	16 1.55	-35 34.4	2.582	3.568	4.4	19.9	5 21	16 1.50	-28 14.9	2.053	3.058	2.8	20.1
5 31	15 52.31	-34 55.5	2.557	3.544	4.4	19.9	5 31	15 52.72	-27 33.5	2.044	3.046	3.5	20.1
6 10	15 43.67	-34 5.6	2.561	3.520	6.3	20.0	6 10	15 44.66	-26 46.3	2.062	3.034	6.7	20.3
6 20	15 36.34	-33 8.7	2.591	3.496	8.8	20.1	6 20	15 38.10	-25 57.5	2.106	3.022	10.0	20.5
6 30	15 30.90	-32 9.6	2.646	3.471	11.2	20.2	6 30	15 33.62	-25 11.4	2.173	3.010	13.0	20.6
<b>473722</b>	2016 AF <sub>119</sub>		5 22.9 3°92	4°9/21.3	17		<b>468884</b>	2013 UV <sub>9</sub>		5 22.9 227°44	4°7/20.0	17	
4 21	16 23.40	-12 4.7	1.166	2.064	16.7	20.5	4 21	16 23.06	-10 41.5	1.956	2.830	12.1	21.6
5 1	16 18.55	-11 27.1	1.109	2.064	12.3	20.2	5 1	16 17.43	-9 28.2	1.883	2.823	9.0	21.4
5 11	16 10.94	-10 52.6	1.073	2.064	7.7	20.0	5 11	16 10.00	-8 15.6	1.834	2.816	6.0	21.2
5 21	16 1.63	-10 26.1	1.060	2.064	4.9	19.8	5 21	16 1.49	-7 8.5	1.813	2.808	4.7	21.1
5 31	15 52.08	-10 12.2	1.070	2.066	7.4	20.0	5 31	15 52.80	-6 12.0	1.819	2.799	6.6	21.2
6 10	15 43.79	-10 14.4	1.102	2.067	11.9	20.2	6 10	15 44.87	-5 30.0	1.851	2.791	9.7	21.4
6 20	15 37.87	-10 33.2	1.155	2.070	16.4	20.5	6 20	15 38.45	-5 4.6	1.907	2.782	12.9	21.6
6 30	15 35.02	-11 7.8	1.224	2.073	20.2	20.7	6 30	15 34.10	-4 56.4	1.983	2.772	15.7	21.8
<b>467494</b>	2006 UF <sub>97</sub>		5 22.9 236°77	2°2/21.9	17		<b>279475</b>	2010 VC <sub>70</sub>		5 22.9 206°40	0°3/22.8	17	
4 21	16 25.10	-16 35.6	1.689	2.568	13.4	21.7	4 21	16 26.06	-21 55.5	1.840	2.710	13.0	21.5
5 1	16 19.22	-16 4.8	1.615	2.561	9.7	21.4	5 1	16 19.79	-21 23.0	1.764	2.706	9.4	21.2
5 11	16 11.13	-15 31.4	1.564	2.555	5.6	21.2	5 11	16 11.40	-20 42.9	1.711	2.701	5.3	21.0
5 21	16 1.66	-14 57.9	1.538	2.547	2.3	20.9	5 21	16 1.74	-19 56.9	1.685	2.696	0.9	20.6
5 31	15 51.92	-14 27.9	1.540	2.540	4.8	21.1	5 31	15 51.86	-19 8.4	1.686	2.691	3.7	20.8
6 10	15 43.07	-14 4.9	1.567	2.532	9.1	21.3	6 10	15 42.89	-18 21.9	1.715	2.685	8.0	21.1
6 20	15 36.04	-13 51.9	1.618	2.524	13.1	21.5	6 20	15 35.70	-17 41.7	1.769	2.679	11.9	21.3
6 30	15 31.48	-13 50.5	1.690	2.516	16.5	21.7	6 30	15 30.91	-17 11.3	1.844	2.672	15.3	21.5
<b>136918</b>	1998 HT <sub>133</sub>		5 22.9 335°48	1°5/22.6	18		<b>417908</b>	2007 RZ <sub>141</sub>		5 22.9 251°41	3°3/24.1	17	
4 21	16 21.49	-16 51.5	1.058	1.964	17.3	18.5	4 21	16 29.42	-28 14.8	1.658	2.517	14.7	21.5
5 1	16 17.80	-17 5.4	0.985	1.945	12.7	18.2	5 1	16 22.82	-28 36.6	1.570	2.501	11.1	21.3
5 11	16 10.89	-17 20.1	0.931	1.927	7.3	17.8	5 11	16 13.43	-28 47.4	1.504	2.485	7.1	21.0
5 21	16 1.68	-17 36.7	0.899	1.910	1.8	17.4	5 21	16 2.12	-28 44.9	1.463	2.468	3.6	20.7
5 31	15 51.72	-17 56.4	0.889	1.895	5.5	17.6	5 31	15 50.21	-28 29.1	1.449	2.451	4.8	20.8
6 10	15 42.82	-18 21.4	0.900	1.881	11.5	17.8	6 10	15 39.17	-28 2.9	1.461	2.433	8.9	21.0
6 20	15 36.48	-18 53.3	0.931	1.869	17.0	18.1	6 20	15 30.26	-27 31.7	1.497	2.415	13.2	21.2
6 30	15 33.72	-19 33.3	0.978	1.859	21.7	18.4	6 30	15 24.34	-27 1.5	1.554	2.396	17.0	21.4
<b>250614</b>	2005 GG		5 22.9 81°84	15°6/23.0	17		<b>502942</b>	2015 EO <sub>51</sub>		5 22.9 178°21	0°9/22.4	17	
4 21	16 46.65	+23 23.0	1.728	2.451	19.5	20.3	4 21	16 25.22	-19 34.7	2.212	3.077	11.3	22.4
5 1	16 33.30	+24 16.0	1.733	2.512	17.6	20.3	5 1	16 18.82	-19 2.6	2.139	3.079	8.1	22.2
5 11	16 18.21	+24 32.2	1.759	2.572	16.2	20.4	5 11	16 10.72	-18 25.9	2.091	3.080	4.5	21.9
5 21	16 2.72	+24 8.2	1.808	2.628	15.6	20.4	5 21	16 1.62	-17 46.4	2.070	3.081	1.1	21.7
5 31	15 48.22	+23 5.6	1.880	2.683	15.8	20.6	5 31	15 52.41	-17 7.1	2.079	3.081	3.5	21.9
6 10	15 35.81	+21 31.0	1.974	2.735	16.6	20.8	6 10	15 43.98	-16 31.2	2.116	3.081	7.1	22.1
6 20	15 26.11	+19 33.3	2.089	2.784	17.7	20.9	6 20	15 37.02	-16 1.6	2.179	3.080	10.4	22.3
6 30	15 19.33	+17 21.3	2.221	2.832	18.6	21.1	6 30	15 32.06	-15 40.7	2.264	3.078	13.3	22.5
<b>214436</b>	2005 QU <sub>83</sub>		5 22.9 241°86	3°0/20.8	18		<b>396197</b>	2013 PU <sub>40</sub>		5 22.9 171°72	0°4/23.2	17	
4 21	16 20.61	-11 51.1	2.694	3.561	9.4	20.7	4 21	16 25.95	-23 17.6	2.165	3.025	11.7	21.9
5 1	16 15.33	-11 8.5	2.608	3.547	6.9	20.5	5 1	16 19.41	-22 55.3	2.092	3.029	8.4	21.7
5 11	16 8.70	-10 26.3	2.549	3.532	4.4	20.4	5 11	16 11.07	-22 25.7	2.044	3.032	4.8	21.5
5 21	16 1.25	-9 47.1	2.518	3.518	3.0	20.2	5 21	16 1.69	-21 50.1	2.023	3.035	0.9	21.2
5 31	15 53.63	-9 13.8	2.516	3.502	4.5	20.3	5 31	15 52.19	-21 10.9	2.031	3.036	3.1	21.4
6 10	15 46.51	-8 48.6	2.541	3.487	7.1	20.5	6 10	15 43.52	-20 31.6	2.068	3.038	6.9	21.6
6 20	15 40.45	-8 33.2	2.593	3.471	9.8	20.6	6 20	15 36.42	-19 55.7	2.130	3.038	10.3	21.8
6 30	15 35.92	-8 28.3	2.667	3.455	12.1	20.8	6 30	15 31.41	-19 26.5	2.215	3.038	13.2	22.0
<b>467411</b>	2005 LB <sub>20</sub>		5 22.9 328°27	20°0/14.8	17		<b>207853</b>	2007 UP <sub>133</sub>		5 22.9 218°28	0°5/22.5	18	
4 21	16 24.56	+20 22.0	1.230	2.038	21.8	20.1	4 21	16 17.20	-18 47.4	4.178	5.037	6.5	22.3
5 1	16 19.57	+21 33.0	1.170	2.013	20.7	19.9	5 1	16 12.54	-18 31.8	4.090	5.027	4.7	22.2
5 11	16 11.66	+22 6.0	1.125	1.990	20.1	19.8	5 11	16 7.03	-18 14.4	4.029	5.018	2.6	22.0
5 21	16 1.79	+21 49.9	1.095	1.967	20.2	19.7	5 21	16 1.01	-17 55.9	3.997	5.008	0.6	21.8
5 31	15 51.40	+20 37.7	1.082	1.946	21.1	19.7	5 31	15 54.90	-17 37.5	3.996	4.998	2.0	21.9
6 10	15 42.06	+18 30.3	1.085	1.926	22.7	19.7	6 10	15 49.12	-17 20.5	4.024	4.988	4.1	22.1
6 20	15 35.03	+15 35.6	1.104	1.907	24.8	19.8	6 20	15 44.01	-17 6.1	4.080	4.977	6.1	22.2
6 30	15 31.16	+12 5.1	1.137	1.890	27.0	19.9	6 30	15 39.90	-16 55.4	4.161	4.966	7.8	22.3
<b>425625</b>	2010 VR <sub>83</sub>		5 22.9 271°24	0°4/23.1	17		<b>432008</b>	2008 UM <sub>348</sub>		5 22.9 305°61	0°3/22.9	17	
4 21	16 26.38												

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2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>436189</b>	2009 <i>WA</i> <sub>77</sub>		5 22.9 262°14	2°2/23.9	18		<b>382470</b>	2000 <i>TO</i> <sub>26</sub>		5 22.9 247°63	1°0/23.4	17	
4 21	16 27.14	-26 28.3	1.923	2.781	13.0	21.3	4 21	16 26.78	-23 43.8	2.264	3.121	11.4	21.7
5 1	16 20.85	-26 40.9	1.828	2.761	9.7	21.1	5 1	16 20.24	-23 48.2	2.166	3.100	8.4	21.5
5 11	16 12.19	-26 44.8	1.757	2.741	6.0	20.8	5 11	16 11.71	-23 46.4	2.093	3.079	4.9	21.3
5 21	16 1.93	-26 38.8	1.712	2.720	2.6	20.5	5 21	16 1.85	-23 38.3	2.047	3.058	1.4	21.0
5 31	15 51.16	-26 23.4	1.695	2.699	3.9	20.6	5 31	15 51.58	-23 24.5	2.031	3.035	3.2	21.1
6 10	15 41.08	-26 1.1	1.705	2.677	7.9	20.8	6 10	15 41.88	-23 7.4	2.042	3.012	7.0	21.3
6 20	15 32.74	-25 36.2	1.740	2.655	11.8	20.9	6 20	15 33.63	-22 50.0	2.080	2.988	10.5	21.4
6 30	15 26.91	-25 13.1	1.796	2.632	15.3	21.1	6 30	15 27.48	-22 35.6	2.141	2.964	13.6	21.6
<b>503466</b>	2016 <i>ET</i> <sub>144</sub>		5 22.9 74°26	1°3/23.5	17		<b>94860</b>	2001 <i>XE</i> <sub>214</sub>		5 22.9 205°61	2°0/22.1	16	
4 21	16 27.28	-24 19.4	1.435	2.311	15.5	21.5	4 21	16 27.80	-16 46.6	1.894	2.763	12.7	21.5
5 1	16 21.03	-24 18.3	1.379	2.323	11.3	21.2	5 1	16 21.00	-16 16.5	1.816	2.758	9.2	21.3
5 11	16 12.21	-24 7.6	1.345	2.334	6.6	21.0	5 11	16 12.10	-15 43.5	1.762	2.751	5.3	21.1
5 21	16 1.90	-23 47.7	1.336	2.346	1.9	20.7	5 21	16 1.91	-15 9.8	1.734	2.744	2.0	20.8
5 31	15 51.50	-23 21.1	1.352	2.358	4.1	20.9	5 31	15 51.45	-14 38.7	1.736	2.735	4.5	21.0
6 10	15 42.39	-22 52.2	1.393	2.370	8.8	21.2	6 10	15 41.83	-14 13.3	1.764	2.726	8.5	21.2
6 20	15 35.58	-22 25.8	1.458	2.381	13.1	21.5	6 20	15 33.93	-13 56.7	1.818	2.716	12.3	21.4
6 30	15 31.69	-22 5.9	1.543	2.393	16.7	21.7	6 30	15 28.37	-13 50.6	1.892	2.705	15.5	21.6
<b>63736</b>	2001 <i>QF</i> <sub>249</sub>		5 22.9 171°89	0°5/22.7	18	R	<b>15765</b>	1992 <i>WU</i> <sub>1</sub>		5 22.9 227°35	0°4/22.7	18	
4 21	16 22.38	-19 39.3	2.839	3.699	9.2	20.1	4 21	16 25.11	-20 51.2	2.495	3.354	10.4	20.0
5 1	16 16.52	-19 26.2	2.764	3.703	6.6	19.9	5 1	16 18.74	-20 24.4	2.402	3.339	7.5	19.8
5 11	16 9.34	-19 9.9	2.716	3.705	3.7	19.8	5 11	16 10.73	-19 52.3	2.334	3.324	4.2	19.5
5 21	16 1.41	-18 51.6	2.696	3.708	0.7	19.5	5 21	16 1.68	-19 16.0	2.296	3.307	0.8	19.2
5 31	15 53.38	-18 32.8	2.706	3.710	2.6	19.7	5 31	15 52.39	-18 38.0	2.287	3.290	3.0	19.4
6 10	15 45.92	-18 15.4	2.745	3.711	5.6	19.9	6 10	15 43.69	-18 1.1	2.307	3.272	6.6	19.6
6 20	15 39.57	-18 1.3	2.811	3.712	8.4	20.1	6 20	15 36.28	-17 28.4	2.353	3.253	9.8	19.8
6 30	15 34.77	-17 52.0	2.901	3.712	10.7	20.2	6 30	15 30.70	-17 2.5	2.423	3.234	12.6	19.9
<b>426601</b>	2013 <i>SN</i> <sub>38</sub>		5 22.9 148°66	1°2/23.4	17		<b>120523</b>	1994 <i>PR</i> <sub>4</sub>		5 22.9 289°14	2°1/24.1	18	
4 21	16 26.48	-23 39.0	1.719	2.588	13.7	21.2	4 21	16 23.03	-27 30.1	2.183	3.039	11.7	20.2
5 1	16 20.28	-23 49.1	1.649	2.590	10.0	21.0	5 1	16 17.61	-27 27.6	2.086	3.018	8.8	20.0
5 11	16 11.77	-23 52.1	1.603	2.591	5.8	20.8	5 11	16 10.25	-27 15.8	2.014	2.997	5.4	19.7
5 21	16 1.84	-23 47.1	1.582	2.593	1.7	20.5	5 21	16 1.62	-26 54.2	1.969	2.976	2.4	19.5
5 31	15 51.66	-23 37.1	1.588	2.594	3.7	20.6	5 31	15 52.62	-26 24.1	1.951	2.954	3.5	19.5
6 10	15 42.45	-23 23.2	1.621	2.595	8.0	20.9	6 10	15 44.25	-25 48.5	1.960	2.933	7.0	19.7
6 20	15 35.17	-23 9.6	1.678	2.596	12.0	21.1	6 20	15 37.35	-25 11.2	1.995	2.911	10.5	19.9
6 30	15 30.48	-22 59.9	1.756	2.597	15.4	21.3	6 30	15 32.58	-24 36.5	2.052	2.890	13.6	20.0
<b>306698</b>	2000 <i>VE</i> <sub>20</sub>		5 22.9 178°71	0°6/22.7	16		<b>464641</b>	2000 <i>QE</i> <sub>145</sub>		5 22.9 276°19	3°3/23.9	17	
4 21	16 27.93	-19 58.1	1.875	2.742	12.9	21.7	4 21	16 29.20	-27 19.9	1.539	2.404	15.3	21.5
5 1	16 21.08	-19 43.7	1.803	2.744	9.3	21.5	5 1	16 22.99	-27 47.6	1.444	2.380	11.6	21.2
5 11	16 12.12	-19 24.5	1.755	2.745	5.2	21.2	5 11	16 13.73	-28 5.5	1.372	2.355	7.4	20.9
5 21	16 1.89	-19 1.6	1.735	2.746	1.0	20.9	5 21	16 2.26	-28 10.7	1.324	2.330	3.6	20.6
5 31	15 51.48	-18 37.5	1.742	2.746	3.7	21.1	5 31	15 49.94	-28 2.6	1.302	2.305	5.0	20.6
6 10	15 41.98	-18 15.4	1.777	2.745	7.9	21.4	6 10	15 38.41	-27 43.6	1.305	2.279	9.6	20.8
6 20	15 34.28	-17 58.4	1.837	2.744	11.7	21.6	6 20	15 29.06	-27 18.9	1.332	2.253	14.3	21.0
6 30	15 28.96	-17 48.9	1.919	2.742	14.9	21.8	6 30	15 22.93	-26 54.9	1.378	2.226	18.4	21.2
<b>248508</b>	2005 <i>UY</i> <sub>504</sub>		5 22.9 94°98	1°2/22.4	17		<b>504259</b>	2006 <i>VU</i> <sub>47</sub>		5 22.9 128°28	1°5/23.7	17	
4 21	16 24.72	-18 6.3	1.877	2.751	12.5	20.9	4 21	16 25.42	-25 1.2	2.731	3.579	9.9	22.6
5 1	16 18.63	-17 49.4	1.820	2.764	9.0	20.7	5 1	16 18.78	-25 24.1	2.664	3.592	7.2	22.4
5 11	16 10.66	-17 29.7	1.786	2.777	5.0	20.5	5 11	16 10.66	-25 41.5	2.622	3.605	4.3	22.3
5 21	16 1.63	-17 9.1	1.778	2.789	1.4	20.3	5 21	16 1.67	-25 52.7	2.610	3.618	1.7	22.1
5 31	15 52.56	-16 49.8	1.799	2.802	3.8	20.5	5 31	15 52.55	-25 58.2	2.627	3.630	2.8	22.2
6 10	15 44.42	-16 34.7	1.846	2.814	7.7	20.7	6 10	15 44.09	-25 59.2	2.673	3.641	5.6	22.4
6 20	15 37.98	-16 26.0	1.918	2.826	11.3	21.0	6 20	15 36.89	-25 57.9	2.746	3.653	8.3	22.6
6 30	15 33.75	-16 25.2	2.011	2.837	14.2	21.2	6 30	15 31.44	-25 56.5	2.844	3.663	10.7	22.8
<b>131752</b>	2001 <i>YQ</i> <sub>154</sub>		5 22.9 269°11	2°6/23.7	18		<b>230400</b>	2002 <i>JY</i> <sub>87</sub>		5 22.9 64°86	1°4/23.5	17	
4 21	16 28.96	-25 14.1	1.404	2.278	15.9	19.7	4 21	16 25.57	-23 59.2	1.765	2.634	13.4	20.4
5 1	16 22.65	-25 46.9	1.334	2.275	11.9	19.4	5 1	16 19.54	-24 11.2	1.700	2.640	9.8	20.2
5 11	16 13.37	-26 11.3	1.285	2.272	7.2	19.2	5 11	16 11.32	-24 16.1	1.658	2.646	5.7	20.0
5 21	16 2.14	-26 24.9	1.260	2.268	3.0	18.9	5 21	16 1.79	-24 13.5	1.642	2.652	1.8	19.7
5 31	15 50.43	-26 27.5	1.260	2.265	4.7	19.0	5 31	15 52.07	-24 4.7	1.653	2.658	3.6	19.9
6 10	15 39.86	-26 21.9	1.286	2.261	9.5	19.2	6 10	15 43.32	-23 52.3	1.690	2.664	7.7	20.1
6 20	15 31.70	-26 12.5	1.334	2.258	14.0	19.5	6 20	15 36.44	-23 39.8	1.752	2.671	11.5	20.4
6 30	15 26.79	-26 4.7	1.402	2.255	17.9	19.7	6 30	15 32.04	-23 30.7	1.835	2.677	14.8	20.6
<b>367507</b>	2009 <i>KG</i> <sub>28</sub>		5 22.9 287°82	4°9/21.3	17		<b>10114</b>	Greifswald		5 22.9 162°93	0°3/23.1	18	
4 21	16 25.50	-10 3.7	1.506	2.388	14.6	21.0	4 21	16 23.34	-22 31.5	2.096	2.964	11.7	17.5
5 1	16 19.90	-9 40.8	1.423	2.368	10.9	20.7	5 1	16 17.64	-22 18.0	2.024	2.965	8.5	17.3
5 11	16 11.76	-9 22.5	1.362	2.347	7.1	20.4	5 11	16 10.15	-21 58.5	1.976	2.966	4.8	17.0
5 21	16 1.88	-9 12.4	1.325	2.326	4.9	20.3	5 21	16 1.59	-21 33.7	1.955	2.967	0.9	16.8
5 31	15 51.44	-9 14.1	1.314	2.305	7.0	20.3	5 31	15 52.88	-21 6.0	1.962	2.968	3.1	16.9
6 10	15 41.78	-9 29.9	1.327	2.285	11.1	20.5	6 10	15 44.96	-20 38.3	1.997	2.968	6.9	17.2
6 20	15 34.03	-10 0.4	1.363	2.264	15.4	20.7	6 20	15 38.56	-20 13.7	2.056	2.969	10.4	17.4
6 30	15 29.02	-10 45.0	1.417	2.243	19.1	20.9	6 30	15 34.22	-19 55.0	2.138	2.969	13.3	17.6
<b>370121</b>	2001 <i>UN</i> <sub>221</sub>		5 22.9 172°94	1°5/22.0	17		<b>311975</b>	2007 <i>EL</i> <sub>58</sub>					



EPHEMERIDES

5 22.9

5 23.0

2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$	2020	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\beta$	$V$
<b>497749</b>	2006 <i>SF</i> <sub>240</sub>		5 22.9 153°17'	1°1/23.5	17		<b>111596</b>	2002 <i>AN</i> <sub>71</sub>		5 23.0 205°07'	1°8/22.3	16	
4 21	16 28.13	-24 13.1	2.061	2.918	12.3	22.0	4 21	16 28.45	-16 43.4	1.742	2.614	13.5	19.9
5 1	16 21.07	-24 12.1	1.993	2.927	8.9	21.8	5 1	16 21.66	-16 31.2	1.666	2.609	9.8	19.6
5 11	16 12.06	-24 3.7	1.950	2.936	5.2	21.6	5 11	16 12.58	-16 17.1	1.614	2.604	5.6	19.4
5 21	16 1.92	-23 48.1	1.934	2.944	1.5	21.4	5 21	16 2.05	-16 2.8	1.589	2.599	1.9	19.1
5 31	15 51.65	-23 26.9	1.946	2.951	3.3	21.5	5 31	15 51.21	-15 50.5	1.591	2.592	4.5	19.3
6 10	15 42.29	-23 3.0	1.987	2.957	7.1	21.8	6 10	15 41.27	-15 42.9	1.619	2.585	8.8	19.5
6 20	15 34.65	-22 39.9	2.053	2.963	10.5	22.0	6 20	15 33.19	-15 42.4	1.673	2.577	12.8	19.7
6 30	15 29.28	-22 21.0	2.142	2.968	13.5	22.2	6 30	15 27.65	-15 50.7	1.746	2.569	16.2	19.9
<b>196615</b>	2003 <i>QY</i> <sub>107</sub>		5 22.9 335°28'	1°5/22.5	17		<b>133067</b>	2003 <i>FB</i> <sub>128</sub>		5 23.0 57°15'	0°1/21.9	11	C
4 21	16 20.85	-17 33.3	1.278	2.176	15.6	19.6	4 21	16 2.66	-15 50.1	35.542	36.407	0.8	22.5
5 1	16 16.92	-17 32.6	1.201	2.157	11.3	19.3	5 1	16 1.86	-15 46.7	35.473	36.414	0.6	22.5
5 11	16 10.24	-17 30.1	1.144	2.138	6.5	18.9	5 11	16 0.98	-15 43.4	35.432	36.421	0.3	22.4
5 21	16 1.66	-17 27.5	1.109	2.121	1.7	18.6	5 21	16 0.06	-15 40.2	35.420	36.429	0.1	22.4
5 31	15 52.51	-17 27.1	1.099	2.104	5.0	18.7	5 31	15 59.14	-15 37.2	35.437	36.436	0.3	22.4
6 10	15 44.27	-17 31.9	1.112	2.089	10.3	19.0	6 10	15 58.25	-15 34.5	35.483	36.443	0.5	22.5
6 20	15 38.19	-17 44.2	1.145	2.076	15.2	19.2	6 20	15 57.41	-15 32.2	35.556	36.450	0.8	22.5
6 30	15 35.16	-18 5.9	1.197	2.064	19.5	19.4	6 30	15 56.67	-15 30.3	35.655	36.457	1.0	22.5
<b>149074</b>	2002 <i>CN</i> <sub>78</sub>		5 22.9 226°35'	4°2/25.4	18		<b>505852</b>	2015 <i>CP</i> <sub>51</sub>		5 23.0 30°78'	6°1/25.8	17	
4 21	16 24.65	-34 59.1	2.576	3.400	11.2	20.6	4 21	16 25.97	-35 31.4	1.575	2.422	15.9	20.5
5 1	16 18.56	-35 14.8	2.490	3.394	8.8	20.4	5 1	16 20.28	-35 58.3	1.514	2.430	12.6	20.3
5 11	16 10.68	-35 18.3	2.428	3.387	6.3	20.3	5 11	16 11.92	-36 6.8	1.474	2.438	9.1	20.1
5 21	16 1.70	-35 8.4	2.393	3.380	4.5	20.1	5 21	16 1.94	-35 54.2	1.457	2.446	6.5	20.0
5 31	15 52.47	-34 45.2	2.386	3.373	4.6	20.1	5 31	15 51.79	-35 21.4	1.465	2.455	6.6	20.0
6 10	15 43.93	-34 11.2	2.406	3.366	6.6	20.2	6 10	15 42.90	-34 33.1	1.498	2.465	9.2	20.2
6 20	15 36.82	-33 30.2	2.452	3.358	9.2	20.4	6 20	15 36.34	-33 36.2	1.554	2.475	12.5	20.4
6 30	15 31.72	-32 46.8	2.522	3.351	11.6	20.5	6 30	15 32.78	-32 38.3	1.630	2.486	15.7	20.6
<b>34790</b>	2001 <i>SA</i> <sub>4</sub>		5 22.9 279°78'	3°8/21.3	18		<b>417469</b>	2006 <i>QU</i> <sub>128</sub>		5 23.0 245°69'	1°4/22.4	18	
4 21	16 22.58	-9 57.2	2.124	2.995	11.4	18.4	4 21	16 26.57	-18 23.8	1.906	2.776	12.6	21.5
5 1	16 17.08	-9 40.9	2.045	2.985	8.5	18.2	5 1	16 20.28	-17 58.0	1.815	2.758	9.1	21.2
5 11	16 9.86	-9 28.4	1.991	2.974	5.5	18.0	5 11	16 11.83	-17 27.9	1.749	2.740	5.2	20.9
5 21	16 1.56	-9 22.0	1.964	2.963	3.8	17.9	5 21	16 1.96	-16 55.1	1.710	2.721	1.5	20.6
5 31	15 53.01	-9 23.9	1.964	2.953	5.3	18.0	5 31	15 51.69	-16 22.7	1.699	2.701	4.1	20.8
6 10	15 45.10	-9 35.5	1.991	2.942	8.4	18.1	6 10	15 42.13	-15 54.1	1.715	2.681	8.4	21.0
6 20	15 38.55	-9 57.3	2.042	2.931	11.5	18.3	6 20	15 34.22	-15 32.7	1.756	2.660	12.3	21.2
6 30	15 33.92	-10 29.1	2.115	2.921	14.3	18.5	6 30	15 28.65	-15 21.1	1.818	2.638	15.8	21.4
<b>307642</b>	2003 <i>SU</i> <sub>138</sub>		5 22.9 232°97'	2°4/24.6	18		<b>67015</b>	1999 <i>XB</i> <sub>126</sub>		5 23.0 250°79'	2°5/24.5	18	
4 21	16 21.68	-30 15.4	2.889	3.729	9.6	20.3	4 21	16 25.01	-29 42.5	2.087	2.937	12.4	19.3
5 1	16 16.17	-30 11.9	2.802	3.722	7.3	20.1	5 1	16 19.05	-29 22.4	1.998	2.925	9.4	19.1
5 11	16 9.24	-29 59.5	2.739	3.714	4.8	19.9	5 11	16 11.06	-28 49.5	1.933	2.912	5.9	18.8
5 21	16 1.45	-29 38.0	2.704	3.706	2.6	19.8	5 21	16 1.81	-28 3.8	1.894	2.899	2.9	18.6
5 31	15 53.50	-29 8.5	2.698	3.698	3.1	19.8	5 31	15 52.31	-27 7.6	1.883	2.886	3.7	18.6
6 10	15 46.10	-28 33.3	2.721	3.689	5.5	20.0	6 10	15 43.61	-26 5.2	1.900	2.872	7.2	18.8
6 20	15 39.87	-27 55.5	2.770	3.681	8.1	20.1	6 20	15 36.57	-25 2.0	1.942	2.859	10.7	19.0
6 30	15 35.28	-27 18.3	2.844	3.672	10.5	20.3	6 30	15 31.79	-24 3.2	2.008	2.844	13.9	19.2
<b>330110</b>	2005 <i>XU</i> <sub>29</sub>		5 22.9 110°63'	7°2/23.1	18		<b>468968</b>	2015 <i>AH</i> <sub>52</sub>		5 23.0 275°75'	5°0/20.9	18	
4 21	16 40.26	-1 41.4	1.124	1.988	19.8	19.7	4 21	16 25.82	-10 24.1	1.590	2.469	14.1	20.8
5 1	16 30.96	-2 37.5	1.066	1.996	15.3	19.5	5 1	16 20.09	-9 43.4	1.502	2.445	10.6	20.5
5 11	16 18.10	-3 57.3	1.028	2.003	10.6	19.2	5 11	16 11.88	-9 5.1	1.437	2.421	7.0	20.2
5 21	16 2.98	-5 40.9	1.015	2.010	7.4	19.1	5 21	16 1.99	-8 33.4	1.396	2.396	5.0	20.0
5 31	15 47.49	-7 44.1	1.028	2.017	8.8	19.2	5 31	15 51.53	-8 12.8	1.382	2.371	7.1	20.1
6 10	15 33.61	-9 59.6	1.067	2.024	13.2	19.4	6 10	15 41.80	-8 6.8	1.392	2.345	11.2	20.3
6 20	15 22.78	-12 19.5	1.129	2.030	17.8	19.7	6 20	15 33.87	-8 17.2	1.425	2.319	15.3	20.4
6 30	15 15.85	-14 38.5	1.210	2.036	21.8	20.0	6 30	15 28.58	-8 44.1	1.477	2.293	19.0	20.6
<b>311914</b>	2007 <i>BW</i> <sub>11</sub>		5 22.9 9°38'	3°4/21.4	18		<b>58188</b>	1991 <i>TA</i> <sub>9</sub>		5 23.0 256°74'	0°7/23.5	18	
4 21	16 21.31	-10 48.9	2.205	3.078	11.0	20.3	4 21	16 19.27	-23 59.3	3.371	4.225	8.1	20.4
5 1	16 16.04	-10 32.4	2.138	3.079	8.1	20.2	5 1	16 14.28	-23 57.9	3.279	4.212	5.9	20.3
5 11	16 9.20	-10 19.1	2.095	3.079	5.1	20.0	5 11	16 8.15	-23 52.0	3.214	4.199	3.4	20.1
5 21	16 1.45	-10 11.0	2.079	3.080	3.4	19.9	5 21	16 1.31	-23 42.1	3.177	4.187	1.0	19.9
5 31	15 53.55	-10 10.2	2.090	3.081	4.9	20.0	5 31	15 54.30	-23 28.9	3.169	4.174	2.2	20.0
6 10	15 46.32	-10 17.9	2.129	3.082	7.8	20.1	6 10	15 47.70	-23 14.1	3.191	4.161	4.7	20.1
6 20	15 40.41	-10 34.8	2.192	3.083	10.8	20.3	6 20	15 41.99	-22 59.2	3.240	4.147	7.1	20.3
6 30	15 36.31	-11 0.8	2.277	3.085	13.4	20.5	6 30	15 37.57	-22 46.3	3.313	4.134	9.3	20.4
<b>261263</b>	2005 <i>UT</i> <sub>98</sub>		5 22.9 187°67'	1°3/22.3	18		<b>338816</b>	2003 <i>WK</i> <sub>60</sub>		5 23.0 248°17'	0°3/22.9	17	
4 21	16 21.85	-16 47.7	2.416	3.285	10.3	20.6	4 21	16 24.38	-20 3.4	2.036	2.906	11.9	21.0
5 1	16 16.36	-16 39.8	2.343	3.285	7.4	20.4	5 1	16 18.53	-20 2.2	1.956	2.899	8.6	20.8
5 11	16 9.37	-16 30.8	2.295	3.285	4.2	20.2	5 11	16 10.75	-19 57.2	1.901	2.891	4.8	20.5
5 21	16 1.48	-16 21.8	2.274	3.284	1.4	20.0	5 21	16 1.77	-19 49.1	1.872	2.884	0.8	20.2
5 31	15 53.44	-16 14.5	2.283	3.284	3.3	20.1	5 31	15 52.51	-19 39.5	1.872	2.876	3.4	20.4
6 10	15 46.02	-16 10.5	2.319	3.284	6.6	20.3	6 10	15 43.96	-19 30.6	1.898	2.869	7.3	20.6
6 20	15 39.85	-16 11.4	2.380	3.283	9.6	20.5	6 20	15 36.96	-19 24.8	1.950	2.861	10.9	20.8
6 30	15 35.42	-16 18.3	2.465	3.283	12.2	20.7	6 30	15 32.10	-19 24.4	2.023	2.853	14.1	21.0
<b>51095</b>	2000 <i>HW</i> <sub>5</sub>		5 22.9 38°34'	0°7/22.7	18		<b>65897</b>	1998 <i>DQ</i> <sub>7</sub>					