

EPHEMERIDES

6 16.9

6 17.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
274137	Angelaglinos		6 16.9 347°98	0°1/17.0	18		45048	1999 XB ₂₁		6 17.0 197°13	0°8/17.0	18	
5 11	18 7.54	-26 10.4	1.934	2.774	13.9	19.2	5 11	18 12.95	-24 9.6	1.757	2.593	15.2	19.6
5 21	18 3.29	-25 37.5	1.851	2.770	10.7	19.0	5 21	18 7.82	-24 31.0	1.675	2.592	11.8	19.4
5 31	17 56.75	-24 59.6	1.790	2.766	7.1	18.8	5 31	17 59.96	-24 52.7	1.615	2.590	7.8	19.2
6 10	17 48.64	-24 16.7	1.754	2.763	3.0	18.5	6 10	17 50.10	-25 12.2	1.579	2.587	3.4	18.9
6 20	17 39.85	-23 30.0	1.745	2.760	1.3	18.4	6 20	17 39.26	-25 27.6	1.570	2.585	1.6	18.7
6 30	17 31.45	-22 41.7	1.763	2.757	5.5	18.7	6 30	17 28.70	-25 38.0	1.588	2.582	6.1	19.0
7 10	17 24.39	-21 54.9	1.807	2.756	9.4	18.9	7 10	17 19.66	-25 44.1	1.631	2.578	10.4	19.3
7 20	17 19.37	-21 12.3	1.874	2.754	12.8	19.1	7 20	17 13.01	-25 47.8	1.697	2.574	14.1	19.5
442104	2010 TQ ₉₈		6 16.9 270°78	0°7/16.9	18		508173	2015 FJ ₂₂₅		6 17.0 244°13	5°0/16.9	18	
5 11	18 6.93	-21 13.6	2.429	3.258	11.8	22.4	5 11	18 13.56	-34 12.7	1.867	2.692	15.0	21.0
5 21	18 2.47	-21 10.3	2.329	3.242	9.1	22.2	5 21	18 8.53	-35 3.6	1.782	2.685	12.0	20.8
5 31	17 56.12	-21 7.5	2.252	3.226	6.0	22.0	5 31	18 0.58	-35 48.4	1.719	2.678	8.8	20.6
6 10	17 48.38	-21 5.0	2.202	3.210	2.6	21.7	6 10	17 50.41	-36 22.3	1.680	2.672	5.9	20.4
6 20	17 39.95	-21 2.6	2.179	3.194	1.3	21.6	6 20	17 39.11	-36 41.0	1.666	2.665	5.2	20.4
6 30	17 31.64	-21 0.5	2.185	3.177	4.8	21.8	6 30	17 28.04	-36 43.2	1.679	2.657	7.5	20.5
7 10	17 24.27	-20 59.2	2.217	3.161	8.2	22.0	7 10	17 18.56	-36 30.8	1.717	2.650	10.9	20.7
7 20	17 18.49	-20 59.7	2.274	3.144	11.3	22.2	7 20	17 11.62	-36 7.8	1.777	2.643	14.1	20.9
248845	2006 TJ ₂₆		6 16.9 142°42	2°6/16.7	17		80759	2000 CL ₅₃		6 17.0 114°37	0°3/16.9	18	
5 11	18 7.13	-16 36.8	2.340	3.166	12.2	21.0	5 11	18 12.54	-22 45.9	1.733	2.571	15.4	19.9
5 21	18 2.44	-16 9.3	2.261	3.170	9.5	20.8	5 21	18 7.25	-22 43.8	1.665	2.582	11.8	19.7
5 31	17 55.96	-15 44.5	2.205	3.174	6.5	20.6	5 31	17 59.40	-22 41.5	1.618	2.593	7.7	19.5
6 10	17 48.26	-15 23.2	2.175	3.177	3.6	20.4	6 10	17 49.77	-22 38.0	1.595	2.604	3.3	19.2
6 20	17 40.04	-15 6.5	2.173	3.181	2.9	20.4	6 20	17 39.44	-22 32.8	1.600	2.614	1.4	19.1
6 30	17 32.10	-14 55.2	2.199	3.184	5.4	20.6	6 30	17 29.59	-22 26.2	1.631	2.625	5.9	19.4
7 10	17 25.20	-14 49.9	2.251	3.187	8.5	20.8	7 10	17 21.33	-22 19.7	1.687	2.635	10.0	19.7
7 20	17 19.90	-14 50.6	2.327	3.190	11.3	21.0	7 20	17 15.40	-22 14.8	1.767	2.644	13.6	19.9
271691	2004 RW ₁₀₆		6 16.9 258°54	0°5/17.0	17		128373	Kevinjohnson		6 17.0 306°47	5°3/17.0	18	
5 11	18 10.55	-25 3.5	1.868	2.705	14.4	21.2	5 11	18 5.99	-8 24.9	2.068	2.888	13.9	19.6
5 21	18 5.86	-25 2.0	1.777	2.694	11.2	21.0	5 21	18 1.91	-8 9.4	1.983	2.880	11.2	19.4
5 31	17 58.63	-24 58.4	1.708	2.683	7.4	20.7	5 31	17 55.82	-8 3.8	1.919	2.873	8.4	19.2
6 10	17 49.52	-24 51.4	1.663	2.671	3.2	20.5	6 10	17 48.29	-8 9.9	1.880	2.866	6.0	19.0
6 20	17 39.47	-24 40.2	1.645	2.660	1.4	20.3	6 20	17 40.06	-8 28.6	1.866	2.859	5.4	19.0
6 30	17 29.66	-24 25.3	1.654	2.648	5.8	20.6	6 30	17 32.01	-8 59.5	1.879	2.852	7.3	19.1
7 10	17 21.22	-24 8.5	1.688	2.636	10.0	20.8	7 10	17 25.00	-9 41.4	1.917	2.845	10.2	19.2
7 20	17 14.98	-23 52.0	1.746	2.624	13.7	21.0	7 20	17 19.71	-10 31.8	1.978	2.838	13.1	19.4
285155	1995 VF ₄		6 16.9 356°93	1°3/16.9	17		148106	1999 RV ₁₀₂		6 17.0 313°56	1°1/17.2	18	
5 11	18 9.57	-23 12.0	1.298	2.159	18.1	20.2	5 11	18 7.44	-27 33.2	1.902	2.743	14.1	19.2
5 21	18 6.06	-23 57.4	1.227	2.157	14.1	19.9	5 21	18 3.58	-27 20.0	1.799	2.718	11.0	18.9
5 31	17 59.25	-24 46.7	1.175	2.155	9.3	19.6	5 31	17 57.22	-27 1.5	1.717	2.693	7.4	18.7
6 10	17 49.90	-25 36.1	1.145	2.154	4.1	19.3	6 10	17 48.98	-26 36.6	1.660	2.668	3.3	18.4
6 20	17 39.29	-26 21.3	1.139	2.154	2.2	19.2	6 20	17 39.75	-26 5.0	1.629	2.643	1.7	18.2
6 30	17 29.02	-26 59.3	1.158	2.154	7.4	19.5	6 30	17 30.66	-25 27.9	1.624	2.619	5.8	18.4
7 10	17 20.65	-27 29.7	1.199	2.155	12.4	19.8	7 10	17 22.85	-24 48.0	1.645	2.596	10.0	18.6
7 20	17 15.26	-27 53.8	1.260	2.156	16.7	20.1	7 20	17 17.18	-24 8.7	1.689	2.572	13.8	18.8
294110	2007 TR ₂₃₃		6 16.9 240°18	0°4/17.0	17		254239	2004 RC ₁₄₀		6 17.0 306°49	3°0/16.8	18	
5 11	18 9.02	-24 1.0	2.157	2.988	13.0	21.1	5 11	18 5.40	-14 57.7	2.154	2.986	13.0	20.5
5 21	18 4.30	-24 12.0	2.068	2.983	10.0	20.9	5 21	18 1.47	-14 44.2	2.061	2.972	10.2	20.3
5 31	17 57.41	-24 22.6	2.002	2.977	6.6	20.7	5 31	17 55.56	-14 35.6	1.991	2.959	7.1	20.1
6 10	17 48.95	-24 31.4	1.962	2.970	2.8	20.4	6 10	17 48.21	-14 32.7	1.945	2.946	4.0	19.9
6 20	17 39.73	-24 37.4	1.949	2.964	1.3	20.3	6 20	17 40.13	-14 36.0	1.927	2.934	3.3	19.8
6 30	17 30.72	-24 40.4	1.964	2.957	5.1	20.5	6 30	17 32.21	-14 45.9	1.935	2.921	6.0	19.9
7 10	17 22.86	-24 41.1	2.005	2.951	8.8	20.8	7 10	17 25.29	-15 2.0	1.969	2.909	9.3	20.1
7 20	17 16.88	-24 40.8	2.070	2.944	12.1	21.0	7 20	17 20.05	-15 24.0	2.027	2.897	12.4	20.3
257290	2009 HS ₄₁		6 16.9 313°14	2°8/16.8	18		212670	2006 UB ₃₂₂		6 17.0 355°15	0°9/17.1	17	
5 11	18 10.18	-25 58.2	1.325	2.184	18.0	20.1	5 11	18 8.11	-25 6.7	1.948	2.787	13.9	20.4
5 21	18 6.80	-26 50.9	1.242	2.170	14.1	19.9	5 21	18 3.81	-25 19.8	1.868	2.786	10.7	20.2
5 31	17 59.94	-27 46.0	1.178	2.156	9.6	19.6	5 31	17 57.19	-25 31.9	1.810	2.785	7.1	19.9
6 10	17 50.30	-28 38.8	1.136	2.143	4.7	19.2	6 10	17 48.90	-25 41.2	1.777	2.785	3.1	19.7
6 20	17 39.08	-29 24.0	1.118	2.130	3.3	19.1	6 20	17 39.85	-25 46.5	1.770	2.784	1.5	19.6
6 30	17 27.98	-29 58.1	1.124	2.118	8.0	19.3	6 30	17 31.08	-25 47.7	1.790	2.784	5.5	19.8
7 10	17 18.71	-30 20.9	1.153	2.107	13.0	19.6	7 10	17 23.63	-25 45.7	1.836	2.784	9.3	20.1
7 20	17 12.55	-30 34.7	1.202	2.095	17.5	19.8	7 20	17 18.21	-25 42.1	1.904	2.784	12.7	20.3
112027	2002 HL ₅		6 16.9 2°07	2°0/17.1	18		267446	2002 CH ₃₁₄		6 17.0 12°26	3°6/16.9	17	
5 11	18 6.35	-17 38.2	1.116	1.989	19.6	18.6	5 11	18 5.39	-15 55.3	1.311	2.174	17.9	20.0
5 21	18 3.78	-17 55.8	1.051	1.987	15.3	18.3	5 21	18 2.41	-15 38.3	1.248	2.177	14.0	19.8
5 31	17 57.81	-18 22.3	1.004	1.987	10.2	18.1	5 31	17 56.57	-15 28.2	1.204	2.181	9.6	19.5
6 10	17 49.31	-18 56.9	0.978	1.987	4.7	17.7	6 10	17 48.70	-15 26.5	1.182	2.187	5.2	19.3
6 20	17 39.57	-19 37.3	0.974	1.988	2.7	17.6	6 20	17 39.94	-15 33.5	1.183	2.193	4.0	19.2
6 30	17 30.26	-20 21.0	0.993	1.991	7.9	17.9	6 30	17 31.66	-15 49.4	1.208	2.201	7.7	19.5
7 10	17 22.96	-21 6.0	1.033	1.994	13.2	18.2	7 10	17 25.11	-16 13.1	1.256	2.209	12.1	19.7
7 20	17 18.72	-21 50.8	1.092	1.999	17.8	18.5	7 20	17 21.11	-16 43.3	1.323	2.219	16.1	20.0
270444	2002 CG ₁₄₅		6 17.0 109°82	5°7/16.8	17		12653	2664 T-3		6 17.0 188°69	1°5/17.1	18	
5 11	18 9.58	-8 18.1											

EPHEMERIDES

6 17.0

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
239796	2300 <i>T</i> ₃		6 17.0 229° 33'	4.2°/17.2	18		424430	2008 <i>BF</i> ₄₆		6 17.0 177° 38'	1.1°/16.9	17	
5 11	18 13.73	-34 58.0	2.355	3.164	12.7	21.5	5 11	18 13.10	-20 34.3	1.996	2.823	14.0	22.8
5 21	18 8.10	-35 34.1	2.259	3.152	10.2	21.3	5 21	18 7.48	-20 31.1	1.914	2.826	10.9	22.5
5 31	18 0.03	-36 4.0	2.185	3.140	7.5	21.1	5 31	17 59.52	-20 29.1	1.855	2.827	7.2	22.3
6 10	17 50.15	-36 23.9	2.137	3.127	5.0	20.9	6 10	17 49.90	-20 27.9	1.821	2.828	3.2	22.1
6 20	17 39.33	-36 30.8	2.116	3.114	4.4	20.9	6 20	17 39.53	-20 26.9	1.815	2.829	1.7	22.0
6 30	17 28.67	-36 24.2	2.124	3.100	6.4	21.0	6 30	17 29.47	-20 26.5	1.837	2.828	5.6	22.2
7 10	17 19.25	-36 5.5	2.157	3.085	9.2	21.1	7 10	17 20.73	-20 27.2	1.885	2.827	9.5	22.5
7 20	17 11.91	-35 38.2	2.215	3.070	12.1	21.3	7 20	17 14.06	-20 30.1	1.957	2.825	12.9	22.7
92094	1999 <i>XN</i> ₂₉		6 17.0 81° 82'	2°/16.7	18		164261	2004 <i>TV</i> ₃₃₀		6 17.0 275° 52'	3°/16.6	18	
5 11	18 11.00	-25 49.1	2.386	3.208	12.2	18.7	5 11	18 10.98	-17 36.1	1.481	2.329	17.0	20.1
5 21	18 5.72	-26 52.9	2.305	3.213	9.4	18.5	5 21	18 6.83	-16 57.1	1.388	2.309	13.5	19.8
5 31	17 58.33	-27 57.5	2.248	3.218	6.3	18.3	5 31	17 59.67	-16 19.7	1.314	2.288	9.3	19.5
6 10	17 49.39	-28 59.6	2.218	3.222	3.1	18.1	6 10	17 50.16	-15 45.5	1.263	2.267	5.0	19.2
6 20	17 39.66	-29 55.9	2.216	3.227	2.3	18.0	6 20	17 39.37	-15 16.8	1.237	2.246	4.0	19.1
6 30	17 30.08	-30 44.1	2.244	3.231	5.2	18.2	6 30	17 28.68	-14 55.7	1.236	2.225	8.1	19.3
7 10	17 21.56	-31 23.7	2.299	3.236	8.3	18.4	7 10	17 19.53	-14 44.3	1.258	2.203	12.9	19.5
7 20	17 14.83	-31 55.3	2.379	3.240	11.1	18.6	7 20	17 12.97	-14 43.4	1.301	2.182	17.3	19.7
30450	2000 <i>NM</i> ₂₀		6 17.0 83° 39'	1°5'/17.3	18		181643	2006 <i>YB</i> ₅		6 17.0 132° 10'	0°2'/17.0	18	
5 11	18 9.81	-28 47.2	2.117	2.947	13.2	18.8	5 11	18 8.52	-22 28.5	2.234	3.065	12.6	20.4
5 21	18 4.86	-28 37.2	2.039	2.951	10.3	18.7	5 21	18 3.83	-22 53.8	2.152	3.066	9.7	20.2
5 31	17 57.72	-28 21.9	1.983	2.955	6.9	18.5	5 31	17 57.09	-23 20.6	2.092	3.066	6.4	20.0
6 10	17 49.08	-28 0.2	1.953	2.959	3.2	18.2	6 10	17 48.87	-23 47.3	2.059	3.067	2.7	19.8
6 20	17 39.83	-27 31.9	1.949	2.963	1.8	18.1	6 20	17 39.96	-24 12.2	2.053	3.068	1.2	19.7
6 30	17 30.98	-26 58.4	1.974	2.967	5.2	18.4	6 30	17 31.27	-24 34.4	2.075	3.069	4.9	19.9
7 10	17 23.46	-26 22.1	2.025	2.971	8.7	18.6	7 10	17 23.68	-24 53.9	2.124	3.069	8.4	20.2
7 20	17 17.92	-25 45.9	2.100	2.975	11.9	18.8	7 20	17 17.86	-25 11.2	2.197	3.070	11.5	20.4
39982	1998 <i>HD</i> ₁₆		6 17.0 205° 53'	0°9'/16.9	18		128228	2003 <i>SV</i> ₁₂₃		6 17.0 312° 09'	3°/16.9	18	
5 11	18 10.99	-20 5.4	2.583	3.399	11.5	20.3	5 11	18 7.73	-14 27.5	1.837	2.673	14.7	19.4
5 21	18 5.42	-20 8.6	2.487	3.393	8.9	20.1	5 21	18 3.50	-14 8.3	1.757	2.670	11.6	19.2
5 31	17 57.98	-20 13.3	2.415	3.385	5.9	19.9	5 31	17 57.00	-13 54.9	1.699	2.668	8.1	18.9
6 10	17 49.21	-20 19.0	2.370	3.377	2.6	19.7	6 10	17 48.87	-13 48.6	1.665	2.665	4.7	18.7
6 20	17 39.77	-20 25.0	2.354	3.368	1.4	19.6	6 20	17 39.97	-13 50.1	1.656	2.662	3.9	18.7
6 30	17 30.48	-20 31.3	2.368	3.358	4.7	19.8	6 30	17 31.35	-13 59.8	1.674	2.660	6.8	18.9
7 10	17 22.14	-20 38.2	2.409	3.348	7.9	20.0	7 10	17 23.98	-14 17.2	1.717	2.657	10.4	19.1
7 20	17 15.38	-20 46.2	2.476	3.336	10.8	20.2	7 20	17 18.61	-14 41.5	1.782	2.655	13.7	19.3
287625	2003 <i>HC</i> ₂₂		6 17.0 13° 44'	2°1'/17.1	17		490066	2008 <i>TN</i> ₁₀₃		6 17.0 226° 13'	0°3'/17.1	18	
5 11	18 1.97	-18 33.4	0.828	1.727	22.2	19.4	5 11	18 11.73	-25 19.6	2.655	3.471	11.3	22.2
5 21	18 1.06	-18 42.7	0.781	1.732	17.2	19.2	5 21	18 6.02	-25 10.5	2.551	3.456	8.7	22.0
5 31	17 56.29	-19 0.4	0.751	1.739	11.4	18.9	5 31	17 58.40	-24 58.7	2.471	3.441	5.8	21.8
6 10	17 48.74	-19 25.9	0.738	1.748	5.2	18.6	6 10	17 49.41	-24 43.4	2.418	3.425	2.5	21.6
6 20	17 39.99	-19 57.2	0.745	1.759	2.8	18.5	6 20	17 39.74	-24 24.4	2.394	3.409	1.1	21.4
6 30	17 32.00	-20 32.0	0.772	1.773	8.6	18.9	6 30	17 30.23	-24 2.3	2.400	3.391	4.5	21.6
7 10	17 26.47	-21 8.6	0.817	1.788	14.3	19.2	7 10	17 21.68	-23 38.7	2.433	3.373	7.8	21.8
7 20	17 24.38	-21 45.4	0.880	1.805	19.2	19.6	7 20	17 14.74	-23 15.3	2.493	3.354	10.7	22.0
343390	2010 <i>CN</i> ₁₅₃		6 17.0 205° 64'	2°1'/16.9	17		423952	2006 <i>UO</i> ₄₉		6 17.0 320° 55'	0°5'/17.1	17	
5 11	18 8.94	-17 45.9	2.100	2.930	13.3	21.3	5 11	18 6.69	-24 22.3	1.227	2.096	18.4	21.2
5 21	18 4.17	-17 35.0	2.016	2.928	10.4	21.1	5 21	18 4.25	-24 24.6	1.140	2.075	14.5	20.9
5 31	17 57.31	-17 27.0	1.954	2.925	7.0	20.9	5 31	17 58.36	-24 25.8	1.072	2.054	9.7	20.5
6 10	17 48.95	-17 22.2	1.917	2.922	3.5	20.7	6 10	17 49.73	-24 24.3	1.024	2.034	4.2	20.2
6 20	17 39.89	-17 20.9	1.908	2.919	2.4	20.6	6 20	17 39.55	-24 18.8	1.000	2.015	1.8	19.9
6 30	17 31.09	-17 23.4	1.926	2.915	5.6	20.8	6 30	17 29.51	-24 9.3	0.998	1.997	7.8	20.3
7 10	17 23.43	-17 29.9	1.970	2.912	9.2	21.0	7 10	17 21.32	-23 57.9	1.018	1.979	13.4	20.5
7 20	17 17.60	-17 40.5	2.038	2.908	12.4	21.2	7 20	17 16.21	-23 47.3	1.057	1.963	18.4	20.7
254832	2005 <i>QW</i> ₁₅₆		6 17.0 203° 35'	7°1'/18.3	18		9831	Simongreen		6 17.0 291° 56'	1°9'/16.9	18	
5 11	18 18.76	-51 23.9	3.248	3.977	11.2	21.6	5 11	18 9.49	-19 42.2	1.554	2.402	16.3	18.8
5 21	18 11.64	-51 59.4	3.159	3.972	9.8	21.5	5 21	18 5.67	-19 30.0	1.456	2.379	12.8	18.6
5 31	18 2.13	-52 22.0	3.092	3.966	8.4	21.4	5 31	17 58.92	-19 19.8	1.378	2.355	8.6	18.2
6 10	17 50.95	-52 27.6	3.049	3.959	7.4	21.3	6 10	17 49.88	-19 11.9	1.323	2.331	4.0	17.9
6 20	17 39.06	-52 13.7	3.032	3.952	7.2	21.3	6 20	17 39.53	-19 6.3	1.294	2.307	2.5	17.7
6 30	17 27.56	-51 40.0	3.041	3.944	7.7	21.3	6 30	17 29.21	-19 3.8	1.289	2.283	7.1	18.0
7 10	17 17.48	-50 49.3	3.076	3.936	8.9	21.4	7 10	17 20.32	-19 5.2	1.309	2.260	12.0	18.2
7 20	17 9.56	-49 45.7	3.134	3.928	10.4	21.5	7 20	17 13.92	-19 11.5	1.350	2.236	16.4	18.4
318627	2005 <i>JH</i> ₁₇₀		6 17.0 12° 82'	3°0'/16.9	17		42374	2002 <i>CB</i> ₁₇₅		6 17.0 8° 35'	9°8'/17.0	18	
5 11	18 7.45	-26 9.5	1.087	1.963	19.8	20.1	5 11	18 4.94	- 2 28.9	1.467	2.295	18.1	17.7
5 21	18 4.92	-27 2.3	1.029	1.966	15.4	19.9	5 21	18 1.71	- 1 34.3	1.404	2.296	15.3	17.5
5 31	17 58.72	-27 55.3	0.989	1.971	10.4	19.6	5 31	17 55.98	- 0 56.9	1.359	2.298	12.4	17.3
6 10	17 49.77	-28 43.6	0.969	1.977	5.1	19.3	6 10	17 48.48	- 0 41.9	1.335	2.300	10.3	17.2
6 20	17 39.54	-29 21.9	0.971	1.984	3.5	19.3	6 20	17 40.19	- 0 52.0	1.333	2.304	9.9	17.2
6 30	17 29.88	-29 47.6	0.996	1.992	8.2	19.6	6 30	17 32.28	- 1 27.4	1.354	2.308	11.4	17.3
7 10	17 22.50	-30 1.8	1.041	2.002	13.3	19.9	7 10	17 25.82	- 2 25.0	1.397	2.313	14.1	17.4
7 20	17 18.46	-30 7.6	1.106	2.012	17.7	20.2	7 20	17 21.60	- 3 39.4	1.459	2.319	16.9	17.6
216522	2001 <i>HQ</i> ₆		6 17.0 324° 56'	0°1'/17.0	18		472234</						

EPHEMERIDES

6 17.0

6 17.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
236399	2006 <i>DM</i> ₅₉		6 17.0 199°42	1°9/16.9	18		356361	2010 <i>LO</i> ₁₂₈		6 17.0 250°35	1°7/16.8	18	
5 11	18 9.56	-18 30.0	2.082	2.912	13.4	21.4	5 11	18 6.91	-19 31.8	2.350	3.180	12.1	20.5
5 21	18 4.68	-18 15.9	1.998	2.910	10.4	21.2	5 21	18 2.42	-19 6.1	2.264	3.176	9.4	20.3
5 31	17 57.67	-18 3.9	1.936	2.908	7.0	21.0	5 31	17 56.08	-18 40.9	2.201	3.173	6.2	20.1
6 10	17 49.14	-17 54.5	1.900	2.905	3.4	20.7	6 10	17 48.47	-18 17.0	2.164	3.170	3.0	19.9
6 20	17 39.91	-17 47.9	1.890	2.902	2.3	20.7	6 20	17 40.28	-17 55.0	2.155	3.167	2.1	19.8
6 30	17 30.95	-17 44.7	1.909	2.899	5.6	20.9	6 30	17 32.35	-17 36.2	2.174	3.163	5.1	20.0
7 10	17 23.16	-17 45.3	1.954	2.895	9.2	21.1	7 10	17 25.43	-17 21.5	2.219	3.160	8.3	20.2
7 20	17 17.24	-17 50.3	2.022	2.891	12.5	21.3	7 20	17 20.13	-17 11.7	2.289	3.157	11.3	20.4
387977	2005 <i>LW</i> ₅₃		6 17.0 328°50	0°6/16.9	18		383176	2005 <i>WY</i> ₂₂		6 17.0 175°58	2°0/17.1	17	
5 11	18 4.54	-23 29.7	1.532	2.391	15.9	20.1	5 11	18 13.42	-27 51.0	2.258	3.078	12.9	22.2
5 21	18 1.89	-23 9.9	1.434	2.363	12.5	19.8	5 21	18 7.67	-28 20.1	2.174	3.081	10.0	22.0
5 31	17 56.44	-22 47.4	1.356	2.336	8.3	19.5	5 31	17 59.66	-28 46.8	2.114	3.083	6.7	21.8
6 10	17 48.82	-22 22.3	1.301	2.310	3.6	19.1	6 10	17 50.03	-29 8.4	2.080	3.084	3.4	21.6
6 20	17 40.00	-21 54.8	1.270	2.285	1.7	18.9	6 20	17 39.62	-29 23.1	2.074	3.085	2.3	21.5
6 30	17 31.28	-21 26.7	1.264	2.261	6.8	19.2	6 30	17 29.48	-29 30.0	2.096	3.085	5.3	21.7
7 10	17 23.99	-21 0.6	1.282	2.238	11.7	19.4	7 10	17 20.57	-29 30.2	2.146	3.085	8.7	21.9
7 20	17 19.15	-20 38.8	1.319	2.216	16.1	19.6	7 20	17 13.63	-29 25.7	2.219	3.084	11.7	22.1
284971	2010 <i>GS</i> ₆		6 17.0 6°36	5°9/17.1	17		216594	2002 <i>OP</i> ₂₁		6 17.0 320°42	2°5/16.7	18	
5 11	18 6.57	-8 32.7	1.751	2.580	15.6	20.2	5 11	18 6.60	-20 19.1	1.260	2.127	18.2	20.4
5 21	18 2.65	-8 10.9	1.677	2.581	12.6	20.0	5 21	18 3.90	-19 45.1	1.175	2.108	14.3	20.1
5 31	17 56.46	-8 0.3	1.624	2.581	9.4	19.8	5 31	17 57.98	-19 10.7	1.109	2.090	9.7	19.8
6 10	17 48.67	-8 3.2	1.595	2.582	6.7	19.7	6 10	17 49.55	-18 37.2	1.065	2.073	4.6	19.4
6 20	17 40.13	-8 20.6	1.590	2.583	6.0	19.6	6 20	17 39.78	-18 6.6	1.043	2.056	3.2	19.3
6 30	17 31.89	-8 52.1	1.610	2.585	8.1	19.8	6 30	17 30.23	-17 41.3	1.045	2.040	8.1	19.5
7 10	17 24.92	-9 35.9	1.655	2.587	11.3	20.0	7 10	17 22.43	-17 23.8	1.068	2.025	13.4	19.8
7 20	17 19.94	-10 29.2	1.722	2.589	14.4	20.2	7 20	17 17.50	-17 15.7	1.111	2.011	18.1	20.0
127832	2003 <i>FS</i> ₁₀₁		6 17.0 45°41	4°9/17.2	17		344051	4074 <i>T</i> ₋₂		6 17.0 286°25	0°7/17.1	18	
5 11	18 13.85	-31 43.1	1.215	2.071	19.5	19.9	5 11	18 10.78	-24 42.2	1.915	2.750	14.2	21.7
5 21	18 9.71	-32 27.2	1.155	2.078	15.4	19.6	5 21	18 6.32	-24 53.7	1.805	2.721	11.2	21.4
5 31	18 1.78	-33 4.4	1.113	2.086	10.8	19.4	5 31	17 59.21	-25 4.6	1.716	2.691	7.5	21.2
6 10	17 51.06	-33 28.5	1.093	2.094	6.4	19.2	6 10	17 50.01	-25 13.3	1.652	2.660	3.3	20.8
6 20	17 39.14	-33 35.2	1.096	2.103	5.2	19.1	6 20	17 39.58	-25 18.0	1.615	2.629	1.5	20.6
6 30	17 27.92	-33 24.1	1.122	2.111	8.7	19.4	6 30	17 29.10	-25 18.2	1.604	2.598	6.0	20.9
7 10	17 19.11	-32 59.2	1.170	2.121	13.1	19.6	7 10	17 19.78	-25 14.9	1.620	2.567	10.4	21.1
7 20	17 13.74	-32 26.7	1.238	2.130	17.2	19.9	7 20	17 12.63	-25 9.8	1.658	2.535	14.4	21.2
161941	2007 <i>FT</i> ₄₃		6 17.0 321°75	1°8/16.9	18		237518	2000 <i>SN</i> ₄₅		6 17.0 296°63	3°9/16.2	18	
5 11	18 7.00	-20 52.9	1.097	1.972	19.7	19.8	5 11	18 9.61	-18 0.9	1.663	2.506	15.7	19.6
5 21	18 4.65	-20 37.2	1.019	1.957	15.5	19.4	5 21	18 5.56	-16 59.3	1.556	2.475	12.4	19.3
5 31	17 58.70	-20 23.0	0.958	1.942	10.4	19.1	5 31	17 58.77	-15 55.5	1.471	2.444	8.7	19.0
6 10	17 49.90	-20 10.6	0.918	1.927	4.7	18.7	6 10	17 49.83	-14 51.9	1.410	2.412	5.0	18.7
6 20	17 39.57	-20 0.2	0.899	1.914	2.6	18.6	6 20	17 39.68	-13 51.8	1.374	2.381	4.3	18.6
6 30	17 29.48	-19 53.1	0.903	1.901	8.4	18.9	6 30	17 29.55	-12 59.2	1.364	2.349	8.0	18.7
7 10	17 21.41	-19 50.9	0.927	1.889	14.2	19.1	7 10	17 20.72	-12 17.6	1.379	2.318	12.5	18.9
7 20	17 16.59	-19 54.8	0.969	1.879	19.4	19.4	7 20	17 14.18	-11 49.3	1.414	2.286	16.7	19.0
471731	2012 <i>UM</i> ₃₃		6 17.0 247°03	1°4/17.0	17		137027	1998 <i>TH</i> ₁₇		6 17.1 354°12	0°6/17.1	17	
5 11	18 10.11	-25 37.4	1.987	2.821	13.8	21.3	5 11	18 6.46	-24 58.1	1.191	2.062	18.7	19.7
5 21	18 5.41	-26 6.1	1.904	2.819	10.7	21.1	5 21	18 3.89	-24 56.7	1.121	2.057	14.6	19.4
5 31	17 58.32	-26 34.4	1.844	2.818	7.1	20.9	5 31	17 57.95	-24 53.0	1.070	2.053	9.7	19.1
6 10	17 49.49	-26 59.7	1.809	2.816	3.3	20.7	6 10	17 49.50	-24 45.7	1.040	2.050	4.2	18.8
6 20	17 39.81	-27 19.9	1.800	2.814	1.9	20.6	6 20	17 39.87	-24 33.8	1.033	2.048	1.8	18.6
6 30	17 30.36	-27 34.2	1.819	2.812	5.6	20.8	6 30	17 30.70	-24 18.3	1.048	2.047	7.4	19.0
7 10	17 22.21	-27 42.9	1.864	2.810	9.3	21.0	7 10	17 23.55	-24 1.6	1.086	2.047	12.7	19.3
7 20	17 16.14	-27 47.8	1.932	2.808	12.7	21.2	7 20	17 19.43	-23 46.5	1.142	2.049	17.3	19.6
474759	2005 <i>QK</i> ₅₀		6 17.0 267°39	5°9/17.2	18		246411	2007 <i>UK</i> ₁₂₅		6 17.1 311°17	3°5/17.1	17	
5 11	18 12.38	-39 40.5	2.358	3.159	12.9	21.2	5 11	18 8.04	-15 40.1	1.253	2.114	18.7	20.0
5 21	18 7.26	-40 27.3	2.265	3.147	10.7	21.0	5 21	18 5.04	-15 36.0	1.170	2.098	14.8	19.7
5 31	17 59.62	-41 5.7	2.194	3.134	8.3	20.9	5 31	17 58.77	-15 40.6	1.105	2.082	10.2	19.4
6 10	17 50.07	-41 31.0	2.148	3.121	6.4	20.7	6 10	17 49.93	-15 55.1	1.061	2.066	5.4	19.0
6 20	17 39.55	-41 39.9	2.128	3.108	6.0	20.7	6 20	17 39.64	-16 19.4	1.040	2.051	3.9	18.9
6 30	17 29.21	-41 31.5	2.134	3.095	7.4	20.7	6 30	17 29.46	-16 52.5	1.042	2.037	8.4	19.1
7 10	17 20.17	-41 7.6	2.166	3.082	9.8	20.9	7 10	17 20.99	-17 33.0	1.067	2.023	13.6	19.4
7 20	17 13.30	-40 32.1	2.221	3.069	12.3	21.0	7 20	17 15.41	-18 19.1	1.111	2.009	18.3	19.6
37674	1994 <i>XH</i> ₃		6 17.0 106°98	2°1/17.2	18		483361	2016 <i>RL</i> ₃₆		6 17.1 264°29	0°9/17.0	18	
5 11	18 9.16	-29 3.6	2.386	3.210	12.1	20.2	5 11	18 8.32	-20 45.2	2.101	2.935	13.2	21.4
5 21	18 4.24	-29 24.6	2.308	3.216	9.4	20.1	5 21	18 3.85	-20 46.3	2.011	2.927	10.2	21.2
5 31	17 57.31	-29 42.2	2.254	3.223	6.4	19.9	5 31	17 57.23	-20 48.9	1.944	2.918	6.8	21.0
6 10	17 48.99	-29 54.2	2.226	3.230	3.3	19.7	6 10	17 49.03	-20 52.6	1.902	2.910	3.0	20.7
6 20	17 40.06	-29 59.4	2.226	3.236	2.3	19.6	6 20	17 40.07	-20 56.7	1.887	2.901	1.5	20.6
6 30	17 31.42	-29 57.5	2.253	3.242	5.0	19.8	6 30	17 31.29	-21 1.3	1.900	2.893	5.3	20.8
7 10	17 23.94	-29 49.8	2.308	3.249	8.0	20.0	7 10	17 23.65	-21 6.8	1.938	2.884	9.0	21.0
7 20	17 18.23	-29 38.3	2.386	3.255	10.9	20.2	7 20	17 17.85	-21 13.8	2.001	2.876	12.4	21.2
480542	2015 <i>MU</i> ₄₆		6 17.0 282°56	2°9/17.2	18		520469						

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
228644	2002 <i>EY</i> ₃₃		6 17.1 165°33	2°1/17.2	17		433846	2015 <i>BM</i> ₂₆₂		6 17.1 127°32	3°8/16.9	17	R
5 11	18 13.44	-29 20.3	2.391	3.206	12.4	22.1	5 11	18 10.72	-13 5.1	1.991	2.813	14.2	21.5
5 21	18 7.52	-29 40.8	2.309	3.212	9.6	21.9	5 21	18 5.50	-12 50.0	1.921	2.825	11.2	21.4
5 31	17 59.47	-29 57.4	2.251	3.217	6.5	21.7	5 31	17 58.17	-12 41.6	1.873	2.837	7.8	21.2
6 10	17 49.93	-30 7.8	2.219	3.222	3.4	21.5	6 10	17 49.40	-12 40.9	1.850	2.848	4.7	21.0
6 20	17 39.72	-30 10.6	2.216	3.226	2.4	21.4	6 20	17 40.03	-12 48.1	1.854	2.858	4.0	21.0
6 30	17 29.81	-30 5.4	2.241	3.229	5.1	21.6	6 30	17 31.02	-13 3.2	1.886	2.868	6.5	21.2
7 10	17 21.12	-29 53.9	2.294	3.232	8.3	21.8	7 10	17 23.28	-13 25.6	1.944	2.878	9.7	21.4
7 20	17 14.32	-29 38.3	2.371	3.233	11.1	22.0	7 20	17 17.44	-13 54.1	2.024	2.887	12.8	21.6
144197	2004 <i>BZ</i> ₁₃₉		6 17.1 257°63	0°9/16.9	17		374458	2005 <i>XF</i> ₂₉		6 17.1 189°57	5°6/17.2	17	
5 11	18 11.85	-21 25.6	1.738	2.576	15.3	21.4	5 11	18 16.24	-38 3.3	2.212	3.014	13.7	21.3
5 21	18 7.16	-21 20.5	1.642	2.560	12.0	21.1	5 21	18 10.27	-38 51.9	2.128	3.013	11.1	21.1
5 31	17 59.73	-21 16.2	1.568	2.543	8.0	20.9	5 31	18 1.60	-39 32.2	2.067	3.011	8.5	21.0
6 10	17 50.20	-21 12.1	1.518	2.526	3.5	20.6	6 10	17 50.96	-39 59.2	2.030	3.010	6.2	20.8
6 20	17 39.56	-21 7.6	1.494	2.508	1.7	20.4	6 20	17 39.34	-40 9.5	2.021	3.007	5.7	20.8
6 30	17 29.05	-21 3.1	1.497	2.490	6.4	20.6	6 30	17 28.02	-40 2.2	2.038	3.004	7.4	20.9
7 10	17 19.91	-20 59.7	1.525	2.472	10.9	20.9	7 10	17 18.18	-39 39.6	2.082	3.001	10.0	21.0
7 20	17 13.10	-20 58.7	1.575	2.453	14.9	21.1	7 20	17 10.70	-39 6.0	2.148	2.997	12.7	21.2
339199	2004 <i>TQ</i> ₂₂₂		6 17.1 276°16	4°8/17.6	16		210266	2007 <i>SA</i> ₆		6 17.1 250°71	1°4/16.9	17	
5 11	18 13.16	-35 30.5	1.823	2.648	15.3	21.0	5 11	18 11.98	-21 13.5	1.523	2.369	16.7	20.7
5 21	18 8.32	-35 50.6	1.733	2.636	12.3	20.7	5 21	18 7.47	-20 56.3	1.439	2.361	13.0	20.4
5 31	18 0.52	-36 1.3	1.664	2.623	9.0	20.5	5 31	18 0.01	-20 39.3	1.376	2.353	8.7	20.1
6 10	17 50.53	-35 58.6	1.618	2.611	5.9	20.3	6 10	17 50.35	-20 22.4	1.336	2.344	3.9	19.8
6 20	17 39.45	-35 39.6	1.598	2.599	4.9	20.2	6 20	17 39.59	-20 6.0	1.321	2.336	2.1	19.7
6 30	17 28.68	-35 4.5	1.603	2.586	7.3	20.3	6 30	17 29.14	-19 51.1	1.333	2.327	6.9	20.0
7 10	17 19.57	-34 16.9	1.634	2.574	10.9	20.5	7 10	17 20.32	-19 39.6	1.368	2.317	11.7	20.2
7 20	17 13.06	-33 22.1	1.687	2.561	14.3	20.7	7 20	17 14.09	-19 32.9	1.424	2.308	15.9	20.4
205729	2002 <i>AZ</i> ₁₄₆		6 17.1 298°20	0°5/17.0	18		317706	2003 <i>QP</i> ₁₅		6 17.1 283°09	3°7/16.6	18	
5 11	18 9.97	-23 24.9	1.306	2.166	18.1	20.2	5 11	18 9.95	-17 10.8	1.466	2.315	17.1	20.7
5 21	18 6.60	-23 9.8	1.216	2.146	14.2	19.9	5 21	18 6.02	-16 31.6	1.378	2.299	13.5	20.4
5 31	17 59.84	-22 52.7	1.146	2.126	9.5	19.6	5 31	17 59.14	-15 54.8	1.310	2.284	9.3	20.1
6 10	17 50.39	-22 32.7	1.097	2.106	4.1	19.2	6 10	17 50.02	-15 22.1	1.264	2.268	5.1	19.8
6 20	17 39.46	-22 10.0	1.072	2.087	1.8	19.0	6 20	17 39.71	-14 55.9	1.243	2.252	4.2	19.7
6 30	17 28.68	-21 45.7	1.070	2.067	7.7	19.3	6 30	17 29.61	-14 38.3	1.247	2.237	8.1	19.9
7 10	17 19.69	-21 22.9	1.091	2.048	13.2	19.5	7 10	17 21.05	-14 30.8	1.275	2.221	12.7	20.1
7 20	17 13.70	-21 4.5	1.132	2.030	18.1	19.7	7 20	17 15.06	-14 33.8	1.322	2.205	16.9	20.3
264465	2001 <i>DC</i> ₉₆		6 17.1 62°57	5°6/17.7	17		373582	2002 <i>AA</i> ₁₁₄		6 17.1 178°43	0°8/17.0	17	
5 11	18 15.94	-35 27.4	1.377	2.216	18.5	20.5	5 11	18 11.47	-20 34.2	2.243	3.067	12.8	21.9
5 21	18 10.86	-35 55.8	1.321	2.231	14.8	20.3	5 21	18 6.06	-20 39.9	2.159	3.069	9.9	21.7
5 31	18 2.25	-36 12.4	1.283	2.247	10.7	20.1	5 31	17 58.56	-20 47.2	2.098	3.070	6.5	21.5
6 10	17 51.19	-36 12.2	1.268	2.262	6.9	19.9	6 10	17 49.59	-20 55.3	2.063	3.070	2.8	21.3
6 20	17 39.24	-35 52.3	1.276	2.278	5.7	19.9	6 20	17 39.94	-21 3.6	2.056	3.071	1.4	21.2
6 30	17 28.15	-35 14.2	1.309	2.294	8.4	20.1	6 30	17 30.53	-21 11.7	2.078	3.070	5.0	21.4
7 10	17 19.43	-34 23.6	1.366	2.310	12.2	20.3	7 10	17 22.26	-21 19.9	2.127	3.069	8.6	21.7
7 20	17 13.94	-33 27.3	1.443	2.326	15.8	20.6	7 20	17 15.81	-21 29.0	2.200	3.067	11.7	21.9
47360	1999 <i>XN</i> ₇₀		6 17.1 237°34	1°1/17.0	18		225956	2002 <i>CG</i> ₃₁		6 17.1 156°48	5°6/17.7	18	
5 11	18 11.79	-20 45.6	1.760	2.597	15.2	20.4	5 11	18 16.56	-38 48.2	2.156	2.958	14.0	20.9
5 21	18 6.98	-20 43.4	1.671	2.588	11.8	20.2	5 21	18 10.43	-39 23.4	2.080	2.964	11.4	20.8
5 31	17 59.52	-20 42.7	1.604	2.578	7.9	19.9	5 31	18 1.63	-39 48.5	2.025	2.970	8.6	20.6
6 10	17 50.08	-20 43.1	1.561	2.569	3.5	19.6	6 10	17 50.92	-39 59.1	1.996	2.975	6.3	20.5
6 20	17 39.65	-20 43.9	1.544	2.558	1.8	19.5	6 20	17 39.40	-39 52.3	1.992	2.980	5.6	20.4
6 30	17 29.43	-20 45.2	1.554	2.547	6.2	19.8	6 30	17 28.33	-39 28.3	2.016	2.984	7.3	20.5
7 10	17 20.60	-20 47.8	1.589	2.536	10.6	20.0	7 10	17 18.88	-38 50.2	2.065	2.988	9.9	20.7
7 20	17 14.06	-20 52.7	1.647	2.525	14.4	20.2	7 20	17 11.85	-38 2.8	2.138	2.991	12.6	20.9
391605	2007 <i>UN</i> ₉₂		6 17.1 183°84	2°7/17.2	14	C	149145	2002 <i>EJ</i> ₁₂₀		6 17.1 161°22	1°7/17.2	18	
5 11	18 10.91	-30 14.4	2.167	2.992	13.1	22.0	5 11	18 8.99	-28 45.8	2.509	3.331	11.7	21.3
5 21	18 5.90	-30 41.3	2.085	2.992	10.3	21.8	5 21	18 4.03	-28 54.2	2.426	3.333	9.0	21.1
5 31	17 58.59	-31 4.0	2.025	2.992	7.1	21.6	5 31	17 57.17	-28 58.8	2.366	3.335	6.1	21.0
6 10	17 49.62	-31 19.8	1.990	2.992	3.9	21.4	6 10	17 48.98	-28 58.3	2.333	3.337	3.0	20.8
6 20	17 39.88	-31 26.8	1.983	2.992	2.9	21.4	6 20	17 40.22	-28 51.6	2.327	3.339	1.9	20.7
6 30	17 30.42	-31 24.5	2.004	2.991	5.6	21.5	6 30	17 31.73	-28 39.2	2.350	3.341	4.7	20.9
7 10	17 22.23	-31 14.4	2.050	2.991	8.9	21.7	7 10	17 24.31	-28 22.3	2.400	3.342	7.7	21.1
7 20	17 16.07	-30 59.1	2.120	2.990	12.0	21.9	7 20	17 18.59	-28 3.0	2.475	3.344	10.5	21.3
429567	2011 <i>DY</i> ₈		6 17.1 163°92	5°0/16.9	17		344135	2000 <i>BO</i> ₄₀		6 17.1 259°87	3°2/16.9	18	
5 11	18 10.22	- 9 0.6	2.197	3.006	13.5	21.9	5 11	18 8.94	-14 1.3	2.227	3.048	13.0	21.3
5 21	18 4.96	- 8 37.1	2.120	3.011	10.9	21.7	5 21	18 4.26	-13 50.6	2.124	3.029	10.3	21.1
5 31	17 57.76	- 8 22.1	2.065	3.016	8.0	21.5	5 31	17 57.51	-13 45.3	2.044	3.009	7.2	20.9
6 10	17 49.21	- 8 17.2	2.035	3.021	5.6	21.4	6 10	17 49.22	-13 46.2	1.989	2.988	4.2	20.6
6 20	17 40.07	- 8 23.4	2.033	3.024	5.1	21.4	6 20	17 40.09	-13 53.9	1.961	2.967	3.5	20.6
6 30	17 31.21	- 8 40.8	2.058	3.028	7.0	21.5	6 30	17 31.02	-14 8.4	1.962	2.946	6.1	20.7
7 10	17 23.44	- 9 8.3	2.109	3.030	9.8	21.7	7 10	17 22.90	-14 29.4	1.989	2.924	9.5	20.8
7 20	17 17.38	- 9 44.3	2.184	3.032	12.5	21.8	7 20	17 16.46	-14 56.3	2.039	2.902	12.7	21.0
304586	2006 <i>VY</i> ₄₉		6 17.1 163°34	2°2/17.0	17		4						

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V	
135560	2002 <i>FC</i> ₅	6 17.1 346°83 19°4/22.7 17						266254	2006 <i>YZ</i> ₈	6 17.1 259°65 2°3/17.2 18				
5 11	18 6.13	+16 0.9	1.148	1.919	25.4	18.9	5 11	18 13.36	-28 54.8	1.842	2.673	14.9	20.9	
5 21	18 3.52	+16 49.5	1.086	1.908	23.6	18.7	5 21	18 8.40	-29 7.4	1.743	2.655	11.7	20.6	
5 31	17 57.71	+16 57.6	1.035	1.899	21.8	18.5	5 31	18 0.61	-29 15.8	1.665	2.636	8.0	20.4	
6 10	17 49.47	+16 14.3	0.999	1.891	20.3	18.4	6 10	17 50.66	-29 17.1	1.612	2.617	4.0	20.1	
6 20	17 39.99	+14 33.7	0.978	1.885	19.5	18.3	6 20	17 39.55	-29 9.3	1.586	2.598	2.6	20.0	
6 30	17 30.81	+11 56.8	0.976	1.880	19.7	18.3	6 30	17 28.57	-28 52.1	1.586	2.578	6.3	20.1	
7 10	17 23.43	+ 8 33.8	0.991	1.877	21.1	18.4	7 10	17 19.02	-28 27.8	1.612	2.557	10.6	20.3	
7 20	17 18.89	+ 4 40.3	1.025	1.875	23.2	18.5	7 20	17 11.87	-27 59.8	1.660	2.536	14.4	20.5	
232806	2004 <i>RM</i> ₂₃₁	6 17.1 144°39 3°2/16.8 17						224469	2005 <i>VX</i> ₅₅	6 17.1 27°49 1°3/17.2 17				
5 11	18 10.10	-14 0.5	2.429	3.243	12.2	22.2	5 11	18 9.21	-26 54.8	1.267	2.130	18.4	19.7	
5 21	18 4.65	-13 35.2	2.355	3.255	9.6	22.1	5 21	18 5.65	-26 51.6	1.210	2.140	14.2	19.5	
5 31	17 57.45	-13 14.2	2.304	3.267	6.7	21.9	5 31	17 58.86	-26 43.7	1.171	2.151	9.4	19.2	
6 10	17 49.08	-12 58.6	2.280	3.277	4.0	21.7	6 10	17 49.85	-26 29.7	1.154	2.163	4.2	19.0	
6 20	17 40.23	-12 49.1	2.284	3.287	3.4	21.7	6 20	17 39.97	-26 8.9	1.161	2.176	2.0	18.9	
6 30	17 31.69	-12 46.4	2.317	3.297	5.6	21.9	6 30	17 30.79	-25 43.0	1.192	2.190	7.0	19.2	
7 10	17 24.20	-12 50.5	2.377	3.305	8.5	22.1	7 10	17 23.68	-25 15.3	1.246	2.204	11.8	19.5	
7 20	17 18.30	-13 0.9	2.461	3.314	11.1	22.2	7 20	17 19.46	-24 49.1	1.320	2.219	15.9	19.8	
20464	1999 <i>MD</i> ₁	6 17.1 227°92 3°7/16.8 18						92340	2000 <i>GC</i> ₁₀₉	6 17.1 35°19 5°3/16.9 18				
5 11	18 11.82	-14 38.7	1.828	2.656	15.1	19.6	5 11	18 9.71	-13 33.3	1.193	2.052	19.6	19.1	
5 21	18 6.83	-14 17.6	1.738	2.646	11.9	19.3	5 21	18 6.03	-13 2.2	1.132	2.057	15.5	18.9	
5 31	17 59.35	-14 1.8	1.669	2.636	8.3	19.1	5 31	17 59.17	-12 40.5	1.090	2.063	10.9	18.6	
6 10	17 50.04	-13 52.6	1.625	2.625	4.8	18.9	6 10	17 50.02	-12 30.9	1.068	2.069	6.6	18.4	
6 20	17 39.78	-13 50.9	1.607	2.613	4.0	18.8	6 20	17 39.88	-12 34.7	1.069	2.075	5.6	18.4	
6 30	17 29.71	-13 57.1	1.616	2.601	7.1	18.9	6 30	17 30.28	-12 52.0	1.094	2.082	9.1	18.6	
7 10	17 20.91	-14 11.3	1.651	2.588	10.9	19.1	7 10	17 22.63	-13 21.6	1.140	2.089	13.5	18.9	
7 20	17 14.24	-14 33.0	1.708	2.575	14.5	19.3	7 20	17 17.85	-14 0.8	1.205	2.097	17.6	19.1	
44939	1999 <i>VB</i> ₅₂	6 17.1 14°36 2°5/16.6 18						167205	2003 <i>TR</i> ₄₃	6 17.1 331°69 2°7/16.8 18				
5 11	18 7.95	-20 18.6	1.549	2.401	16.2	18.2	5 11	18 7.25	-18 3.4	1.675	2.522	15.4	20.1	
5 21	18 4.06	-19 31.1	1.479	2.403	12.5	18.0	5 21	18 3.48	-17 37.6	1.594	2.515	12.0	19.8	
5 31	17 57.55	-18 42.9	1.429	2.406	8.4	17.8	5 31	17 57.22	-17 14.3	1.534	2.509	8.1	19.6	
6 10	17 49.23	-17 55.9	1.403	2.410	4.1	17.5	6 10	17 49.15	-16 54.7	1.497	2.503	4.2	19.3	
6 20	17 40.17	-17 12.6	1.402	2.414	3.0	17.5	6 20	17 40.22	-16 39.9	1.486	2.497	3.1	19.3	
6 30	17 31.58	-16 35.5	1.427	2.419	6.9	17.7	6 30	17 31.59	-16 31.0	1.501	2.492	6.7	19.5	
7 10	17 24.58	-16 6.9	1.476	2.424	11.1	18.0	7 10	17 24.33	-16 28.8	1.540	2.487	10.8	19.7	
7 20	17 19.92	-15 47.9	1.546	2.430	14.8	18.2	7 20	17 19.26	-16 33.6	1.600	2.483	14.5	19.9	
335164	2004 <i>XT</i> ₁₀₅	6 17.1 245°78 1°4/17.3 18						391898	2008 <i>UM</i> ₀₄	6 17.1 203°82 5°6/16.1 18				
5 11	18 11.96	-28 41.7	1.973	2.802	14.1	20.4	5 11	18 8.46	- 7 14.0	2.543	3.342	12.2	21.8	
5 21	18 6.88	-28 26.8	1.882	2.794	11.0	20.2	5 21	18 3.43	- 6 23.4	2.455	3.337	10.0	21.6	
5 31	17 59.32	-28 5.9	1.814	2.786	7.4	20.0	5 31	17 56.72	- 5 39.5	2.391	3.331	7.7	21.5	
6 10	17 49.99	-27 37.7	1.771	2.777	3.4	19.7	6 10	17 48.83	- 5 5.0	2.352	3.325	6.0	21.3	
6 20	17 39.84	-27 1.9	1.755	2.769	1.8	19.6	6 20	17 40.39	- 4 42.0	2.341	3.318	5.7	21.3	
6 30	17 30.02	-26 20.0	1.766	2.760	5.6	19.8	6 30	17 32.13	- 4 31.7	2.357	3.310	7.3	21.4	
7 10	17 21.60	-25 35.2	1.804	2.751	9.6	20.0	7 10	17 24.76	- 4 34.2	2.400	3.302	9.5	21.5	
7 20	17 15.37	-24 51.0	1.865	2.741	13.1	20.2	7 20	17 18.84	- 4 48.3	2.466	3.294	11.9	21.7	
101165	1998 <i>SS</i>	6 17.1 228°64 1°1/16.9 17						302314	2002 <i>AE</i> ₃₂	6 17.1 164°91 2°3/17.4 18				
5 11	18 9.14	-20 43.7	2.138	2.969	13.1	20.2	5 11	18 10.32	-32 10.7	3.089	3.894	10.1	21.9	
5 21	18 4.42	-20 35.7	2.049	2.963	10.1	20.0	5 21	18 4.72	-32 21.3	3.005	3.900	7.9	21.7	
5 31	17 57.58	-20 28.6	1.984	2.957	6.7	19.7	5 31	17 57.47	-32 26.9	2.944	3.905	5.5	21.5	
6 10	17 49.23	-20 22.2	1.944	2.952	3.0	19.5	6 10	17 49.11	-32 25.8	2.912	3.910	3.2	21.4	
6 20	17 40.16	-20 16.3	1.931	2.945	1.6	19.4	6 20	17 40.28	-32 17.3	2.908	3.914	2.4	21.3	
6 30	17 31.31	-20 11.4	1.947	2.939	5.3	19.6	6 30	17 31.70	-32 1.6	2.933	3.917	4.3	21.5	
7 10	17 23.60	-20 8.4	1.988	2.932	8.9	19.8	7 10	17 24.07	-31 40.0	2.987	3.920	6.7	21.6	
7 20	17 17.72	-20 7.9	2.053	2.926	12.2	20.0	7 20	17 17.90	-31 14.7	3.066	3.923	9.0	21.8	
475006	2005 <i>TE</i> ₁₆₂	6 17.1 240°93 1°7/17.2 18						351891	2006 <i>SZ</i> ₂₁₆	6 17.1 194°86 0°7/17.1 18				
5 11	18 9.02	-28 39.1	2.650	3.470	11.2	22.4	5 11	18 9.07	-25 2.5	2.488	3.312	11.7	22.3	
5 21	18 4.09	-28 51.7	2.552	3.458	8.7	22.2	5 21	18 4.13	-25 13.8	2.401	3.311	9.0	22.1	
5 31	17 57.27	-29 1.1	2.477	3.446	5.9	22.0	5 31	17 57.28	-25 23.9	2.337	3.309	5.9	21.9	
6 10	17 49.08	-29 5.6	2.429	3.434	3.0	21.8	6 10	17 49.10	-25 31.7	2.299	3.307	2.6	21.7	
6 20	17 40.22	-29 4.3	2.409	3.421	1.9	21.7	6 20	17 40.28	-25 36.1	2.290	3.304	1.2	21.6	
6 30	17 31.50	-28 56.9	2.418	3.408	4.6	21.9	6 30	17 31.67	-25 37.0	2.309	3.302	4.6	21.8	
7 10	17 23.74	-28 44.6	2.454	3.395	7.7	22.1	7 10	17 24.08	-25 35.1	2.355	3.299	7.8	22.0	
7 20	17 17.58	-28 29.1	2.515	3.381	10.5	22.2	7 20	17 18.14	-25 31.8	2.427	3.295	10.7	22.2	
187548	2006 <i>UJ</i> ₂₄₀	6 17.1 37°19 1°2/17.2 17						73730	1993 <i>FL</i> ₄₆	6 17.1 131°57 1°7/17.2 18				
5 11	18 10.63	-25 51.5	1.258	2.120	18.6	20.4	5 11	18 13.90	-27 19.4	1.721	2.556	15.6	19.9	
5 21	18 6.75	-25 56.7	1.202	2.131	14.4	20.2	5 21	18 8.61	-27 33.8	1.648	2.563	12.1	19.7	
5 31	17 59.60	-25 59.1	1.164	2.143	9.5	19.9	5 31	18 0.55	-27 44.9	1.597	2.570	8.1	19.4	
6 10	17 50.15	-25 56.5	1.147	2.156	4.2	19.6	6 10	17 50.54	-27 50.2	1.571	2.577	3.8	19.2	
6 20	17 39.81	-25 47.8	1.155	2.170	2.0	19.5	6 20	17 39.69	-27 47.9	1.571	2.584	2.2	19.1	
6 30	17 30.18	-25 33.9	1.186	2.184	7.1	19.9	6 30	17 29.30	-27 38.3	1.597	2.590	6.1	19.4	
7 10	17 22.64	-25 17.4	1.241	2.198	11.9	20.2	7 10	17 20.57	-27 23.5	1.649	2.596	10.2	19.6	
7 20	17 18.06	-25 1.2	1.316	2.213	16.0	20.5	7 20	17 14.32	-27 6.3	1.723	2.601	13.9	19.9	
200209	1999 <i>TQ</i> ₁₁₁	6 17.1 293°84 8°4/17.2 18						174700	2003 <i>UJ</i> ₆₈	6 17.1 147°37 1°6/16.9 17				
5 11	18 14.88	-42 20.7	1.789	2.597	16.2	19.6	5 11	18 1						

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
413386	2004 <i>PL</i> ₁₁₁		6 17.1 321 ^o .12	2 ^o .0/17.1	17		216285	2006 <i>XR</i> ₅₃		6 17.1 226 ^o .10	0 ^o .8/17.1	18	
5 11	18 4.93	-25 34.7	1.034	1.917	20.1	20.8	5 11	18 9.54	-24 6.0	2.537	3.359	11.5	20.6
5 21	18 3.74	-25 57.5	0.946	1.888	15.9	20.4	5 21	18 4.56	-24 38.4	2.443	3.352	8.9	20.4
5 31	17 58.66	-26 20.9	0.874	1.859	10.8	20.0	5 31	17 57.64	-25 11.6	2.374	3.345	5.9	20.2
6 10	17 50.23	-26 41.6	0.822	1.831	5.0	19.6	6 10	17 49.30	-25 43.6	2.331	3.338	2.6	19.9
6 20	17 39.69	-26 55.9	0.790	1.804	2.8	19.4	6 20	17 40.24	-26 12.7	2.316	3.330	1.3	19.8
6 30	17 29.01	-27 1.7	0.779	1.779	8.9	19.6	6 30	17 31.29	-26 37.7	2.331	3.322	4.6	20.0
7 10	17 20.34	-27 0.1	0.787	1.755	15.3	19.8	7 10	17 23.27	-26 58.5	2.373	3.314	7.8	20.2
7 20	17 15.31	-26 54.3	0.812	1.732	21.0	20.1	7 20	17 16.86	-27 15.8	2.439	3.306	10.7	20.4
96796	1999 <i>RQ</i> ₁₂₄		6 17.1 284 ^o .18	6 ^o .1/17.8	18 R		241270	2007 <i>TT</i> ₄₁₀		6 17.1 212 ^o .46	3 ^o .0/17.1	18	
5 11	18 14.31	-38 53.9	1.861	2.675	15.4	19.6	5 11	18 8.71	-13 57.5	2.300	3.120	12.6	20.4
5 21	18 9.40	-39 18.0	1.765	2.657	12.7	19.4	5 21	18 3.91	-13 54.2	2.211	3.115	10.0	20.2
5 31	18 1.38	-39 30.7	1.690	2.640	9.6	19.2	5 31	17 57.20	-13 56.6	2.145	3.110	6.9	20.0
6 10	17 51.02	-39 26.8	1.638	2.622	7.0	19.0	6 10	17 49.10	-14 5.3	2.105	3.105	4.0	19.8
6 20	17 39.47	-39 2.9	1.611	2.604	6.2	18.9	6 20	17 40.34	-14 20.2	2.093	3.099	3.2	19.8
6 30	17 28.21	-38 19.0	1.611	2.585	8.1	19.0	6 30	17 31.74	-14 41.1	2.108	3.093	5.7	19.9
7 10	17 18.66	-37 19.1	1.634	2.567	11.3	19.1	7 10	17 24.14	-15 7.3	2.151	3.087	8.8	20.1
7 20	17 11.84	-36 9.2	1.681	2.549	14.6	19.3	7 20	17 18.17	-15 37.9	2.217	3.080	11.8	20.3
91042	1998 <i>FF</i> ₁₅		6 17.1 12 ^o .53	6 ^o .8/17.2	18		121538	1999 <i>UA</i> ₄₉		6 17.1 266 ^o .44	0 ^o .6/17.2	18	
5 11	18 12.03	-36 18.5	1.492	2.330	17.4	18.1	5 11	18 8.16	-25 41.9	2.495	3.320	11.6	20.1
5 21	18 8.07	-37 21.0	1.424	2.332	14.1	17.9	5 21	18 3.52	-25 36.9	2.394	3.305	9.0	19.9
5 31	18 0.69	-38 14.5	1.376	2.334	10.6	17.7	5 31	17 56.96	-25 29.3	2.317	3.289	6.0	19.7
6 10	17 50.75	-38 52.5	1.350	2.337	7.6	17.5	6 10	17 49.01	-25 18.5	2.266	3.273	2.6	19.4
6 20	17 39.60	-39 9.8	1.347	2.341	6.9	17.5	6 20	17 40.37	-25 4.0	2.243	3.257	1.2	19.3
6 30	17 28.91	-39 5.3	1.369	2.345	9.1	17.6	6 30	17 31.89	-24 46.4	2.248	3.241	4.6	19.5
7 10	17 20.27	-38 42.2	1.413	2.350	12.5	17.8	7 10	17 24.37	-24 26.9	2.280	3.225	8.0	19.7
7 20	17 14.71	-38 6.4	1.478	2.355	15.8	18.1	7 20	17 18.48	-24 7.4	2.337	3.208	11.0	19.9
488406	2016 <i>WM</i> ₅₄		6 17.1 293 ^o .84	0 ^o .3/17.1	18		254311	2004 <i>RX</i> ₃₁₇		6 17.1 344 ^o .33	6 ^o .8/16.1	16	
5 11	18 8.04	-22 28.4	2.075	2.911	13.3	20.8	5 11	18 4.27	-7 54.3	1.895	2.723	14.7	20.5
5 21	18 3.88	-22 30.5	1.971	2.887	10.3	20.5	5 21	18 0.81	-6 54.4	1.817	2.716	12.0	20.3
5 31	17 57.45	-22 33.0	1.889	2.864	6.9	20.3	5 31	17 55.29	-6 2.9	1.760	2.710	9.3	20.1
6 10	17 49.29	-22 35.1	1.832	2.841	2.9	20.0	6 10	17 48.32	-5 23.7	1.726	2.704	7.2	20.0
6 20	17 40.19	-22 36.2	1.803	2.818	1.3	19.8	6 20	17 40.67	-4 59.5	1.717	2.699	7.0	19.9
6 30	17 31.14	-22 36.1	1.800	2.794	5.4	20.1	6 30	17 33.26	-4 52.2	1.733	2.695	8.8	20.0
7 10	17 23.17	-22 35.6	1.823	2.771	9.4	20.2	7 10	17 26.98	-5 1.5	1.773	2.691	11.5	20.2
7 20	17 17.08	-22 35.8	1.870	2.748	13.0	20.4	7 20	17 22.49	-5 25.5	1.834	2.688	14.3	20.4
106226	2000 <i>US</i> ₃₉		6 17.1 324 ^o .16	3 ^o .6/16.9	18		120878	1998 <i>RQ</i> ₃₇		6 17.1 306 ^o .59	1 ^o .7/16.9	18	
5 11	18 9.05	-30 31.0	1.928	2.763	14.1	19.1	5 11	18 6.13	-19 37.8	2.134	2.970	12.9	19.7
5 21	18 4.98	-31 19.1	1.840	2.753	11.2	18.9	5 21	18 2.22	-19 19.0	2.036	2.952	10.1	19.4
5 31	17 58.32	-32 4.4	1.774	2.742	7.8	18.7	5 31	17 56.25	-19 1.0	1.960	2.934	6.7	19.2
6 10	17 49.69	-32 43.1	1.732	2.732	4.6	18.5	6 10	17 48.75	-18 44.4	1.910	2.916	3.2	18.9
6 20	17 40.03	-33 11.8	1.717	2.723	3.8	18.4	6 20	17 40.48	-18 29.7	1.886	2.898	2.1	18.8
6 30	17 30.51	-33 28.6	1.727	2.713	6.6	18.6	6 30	17 32.34	-18 17.9	1.889	2.881	5.5	19.0
7 10	17 22.31	-33 34.3	1.763	2.704	10.1	18.7	7 10	17 25.23	-18 9.9	1.919	2.864	9.2	19.2
7 20	17 16.35	-33 31.5	1.821	2.696	13.4	18.9	7 20	17 19.88	-18 6.4	1.971	2.847	12.5	19.4
494477	2016 <i>WC</i> ₂₂		6 17.1 272 ^o .63	2 ^o .4/16.6	18		38698	2000 <i>QU</i> ₆₃		6 17.1 305 ^o .18	1 ^o .5/17.1	18	
5 11	18 7.56	-18 20.1	2.311	3.139	12.3	21.2	5 11	18 10.49	-19 12.0	1.350	2.206	17.9	18.7
5 21	18 3.08	-17 44.4	2.212	3.123	9.6	21.0	5 21	18 6.73	-19 22.0	1.271	2.198	14.0	18.4
5 31	17 56.67	-17 9.1	2.137	3.108	6.5	20.8	5 31	17 59.79	-19 37.3	1.212	2.190	9.4	18.1
6 10	17 48.88	-16 35.4	2.088	3.092	3.4	20.6	6 10	17 50.41	-19 57.2	1.175	2.183	4.2	17.8
6 20	17 40.40	-16 4.5	2.066	3.076	2.7	20.5	6 20	17 39.77	-20 20.2	1.162	2.176	2.2	17.7
6 30	17 32.09	-15 38.1	2.073	3.060	5.6	20.7	6 30	17 29.39	-20 44.9	1.173	2.169	7.3	18.0
7 10	17 24.76	-15 17.5	2.106	3.043	8.9	20.8	7 10	17 20.75	-21 10.9	1.208	2.163	12.4	18.2
7 20	17 19.07	-15 3.6	2.162	3.027	12.0	21.0	7 20	17 14.91	-21 38.2	1.263	2.156	16.8	18.5
275528	1998 <i>CM</i>		6 17.1 278 ^o .85	4 ^o .0/17.3	18		467728	2009 <i>HF</i> ₉₉		6 17.1 230 ^o .23	1 ^o .3/17.1	17	
5 11	18 14.05	-32 41.6	1.890	2.714	14.8	19.5	5 11	18 14.24	-25 31.0	1.774	2.607	15.3	21.8
5 21	18 9.16	-33 8.9	1.781	2.686	11.9	19.2	5 21	18 9.07	-25 52.5	1.683	2.597	11.9	21.5
5 31	18 1.30	-33 30.5	1.693	2.657	8.5	19.0	5 31	18 1.06	-26 13.2	1.613	2.587	8.0	21.3
6 10	17 51.06	-33 42.2	1.630	2.628	5.2	18.7	6 10	17 50.90	-26 30.7	1.568	2.576	3.6	21.0
6 20	17 39.45	-33 40.6	1.593	2.598	4.2	18.6	6 20	17 39.59	-26 42.4	1.550	2.564	1.9	20.8
6 30	17 27.81	-33 24.4	1.583	2.568	7.1	18.7	6 30	17 28.46	-26 47.6	1.559	2.552	6.2	21.1
7 10	17 17.56	-32 55.7	1.597	2.537	11.0	18.8	7 10	17 18.80	-26 47.2	1.593	2.539	10.6	21.3
7 20	17 9.80	-32 18.9	1.635	2.506	14.8	19.0	7 20	17 11.57	-26 43.6	1.650	2.526	14.5	21.5
88235	2001 <i>CW</i> ₆		6 17.1 240 ^o .29	5 ^o .8/16.9	18		152765	1999 <i>LN</i> ₁₀		6 17.1 356 ^o .82	6 ^o .9/17.8	18	
5 11	18 6.47	-1 32.9	3.056	3.829	10.9	20.7	5 11	18 6.17	-7 10.4	1.366	2.209	18.4	19.2
5 21	18 1.73	-1 14.0	2.955	3.813	9.2	20.6	5 21	18 3.07	-7 2.9	1.295	2.206	15.0	19.0
5 31	17 55.56	-1 5.0	2.877	3.795	7.5	20.4	5 31	17 57.18	-7 12.3	1.243	2.203	11.3	18.8
6 10	17 48.36	-1 7.8	2.825	3.778	6.1	20.3	6 10	17 49.24	-7 41.1	1.212	2.202	8.0	18.6
6 20	17 40.63	-1 23.4	2.799	3.759	5.9	20.3	6 20	17 40.29	-8 29.7	1.204	2.201	7.0	18.5
6 30	17 32.97	-1 51.9	2.802	3.741	6.9	20.3	6 30	17 31.65	-9 36.1	1.220	2.201	9.4	18.7
7 10	17 25.96	-2 32.5	2.831	3.721	8.7	20.4	7 10	17 24.55	-10 55.9	1.258	2.202	13.1	18.9
7 20	17 20.11	-3 23.1	2.885	3.702	10.6	20.5	7 20	17 19.92	-12 23.9				

EPHEMERIDES

6 17.1

6 17.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
394310	2006 WA ₁₀	6 17.1 151°47' 3°0/16.8 17					504278	2006 WB ₆₉	6 17.1 257°31' 0°2/17.1 18				
5 11	18 12.51	-30 44.6	2.674	3.484	11.3	21.2	5 11	18 13.08	-22 45.5	1.877	2.709	14.6	22.5
5 21	18 6.81	-31 41.0	2.593	3.491	8.9	21.1	5 21	18 8.11	-23 2.2	1.775	2.689	11.4	22.2
5 31	17 59.10	-32 34.7	2.536	3.497	6.2	20.9	5 31	18 0.45	-23 20.3	1.694	2.668	7.6	21.9
6 10	17 49.92	-33 22.3	2.506	3.503	3.8	20.8	6 10	17 50.69	-23 38.2	1.638	2.646	3.3	21.6
6 20	17 40.03	-34 1.0	2.505	3.508	3.2	20.7	6 20	17 39.73	-23 54.0	1.609	2.624	1.4	21.4
6 30	17 30.29	-34 29.5	2.534	3.513	5.2	20.9	6 30	17 28.78	-24 6.7	1.608	2.601	6.0	21.7
7 10	17 21.58	-34 48.1	2.590	3.518	7.9	21.1	7 10	17 19.07	-24 16.7	1.632	2.578	10.4	21.9
7 20	17 14.57	-34 58.4	2.670	3.522	10.4	21.2	7 20	17 11.58	-24 25.2	1.679	2.554	14.3	22.1
288043	2003 UW ₂₆₉	6 17.1 239°65' 2°3/17.3 18					444085	2004 SU ₃₉	6 17.1 291°88' 7°2/16.7 17				
5 11	18 11.14	-29 31.3	2.034	2.863	13.7	20.8	5 11	18 13.60	-42 18.8	2.350	3.142	13.2	21.2
5 21	18 6.28	-29 46.3	1.948	2.858	10.8	20.6	5 21	18 8.64	-43 23.2	2.246	3.117	11.2	21.0
5 31	17 58.99	-29 56.8	1.883	2.853	7.3	20.4	5 31	18 0.89	-44 19.1	2.164	3.091	9.1	20.8
6 10	17 49.93	-30 0.5	1.844	2.847	3.8	20.2	6 10	17 50.91	-45 1.0	2.106	3.065	7.5	20.7
6 20	17 40.03	-30 55.7	1.831	2.842	2.6	20.1	6 20	17 39.63	-45 24.2	2.074	3.039	7.3	20.6
6 30	17 30.40	-29 42.6	1.846	2.836	5.7	20.3	6 30	17 28.33	-45 26.5	2.068	3.013	8.6	20.7
7 10	17 22.11	-29 22.9	1.886	2.831	9.4	20.5	7 10	17 18.31	-45 9.2	2.086	2.987	10.8	20.8
7 20	17 15.95	-28 59.5	1.950	2.825	12.7	20.7	7 20	17 10.61	-44 36.5	2.127	2.961	13.3	20.9
368916	2006 UL ₆₆	6 17.1 315°19' 0°1/17.1 17					325823	2010 RA ₁₇₁	6 17.1 191°35' 2°5/16.9 17				
5 11	18 7.78	-23 36.3	1.288	2.153	18.0	21.0	5 11	18 12.56	-17 51.2	1.874	2.704	14.7	21.8
5 21	18 5.02	-23 34.6	1.199	2.131	14.2	20.6	5 21	18 7.28	-17 27.9	1.792	2.703	11.5	21.6
5 31	17 58.92	-23 32.3	1.129	2.110	9.5	20.3	5 31	17 59.60	-17 7.1	1.731	2.701	7.8	21.4
6 10	17 50.15	-23 28.1	1.081	2.090	4.1	19.9	6 10	17 50.20	-16 49.3	1.695	2.699	4.0	21.2
6 20	17 39.89	-23 21.1	1.055	2.070	1.7	19.7	6 20	17 40.00	-16 35.5	1.686	2.697	2.9	21.1
6 30	17 29.74	-23 11.6	1.053	2.051	7.5	20.0	6 30	17 30.10	-16 26.4	1.704	2.693	6.3	21.3
7 10	17 21.35	-23 1.5	1.073	2.033	13.0	20.3	7 10	17 21.56	-16 23.0	1.749	2.689	10.2	21.5
7 20	17 15.91	-22 53.1	1.113	2.015	17.9	20.5	7 20	17 15.12	-16 25.8	1.816	2.685	13.7	21.7
477707	2010 RO ₁₄₈	6 17.1 284°01' 5°1/17.5 18					74225	1998 SR ₉	6 17.1 302°36' 0°4/17.1 18				
5 11	18 11.22	-37 44.7	2.287	3.096	13.0	21.4	5 11	18 8.68	-21 40.0	1.809	2.651	14.6	19.8
5 21	18 6.37	-38 15.0	2.195	3.085	10.6	21.2	5 21	18 4.62	-21 51.2	1.721	2.640	11.4	19.6
5 31	17 59.07	-38 36.8	2.125	3.074	8.0	21.0	5 31	17 58.05	-22 4.3	1.653	2.630	7.5	19.3
6 10	17 49.99	-38 46.2	2.079	3.062	5.7	20.9	6 10	17 49.61	-22 18.2	1.610	2.619	3.2	19.0
6 20	17 40.02	-38 40.9	2.060	3.051	5.1	20.8	6 20	17 40.22	-22 31.8	1.594	2.609	1.4	18.9
6 30	17 30.29	-38 20.4	2.068	3.040	6.8	20.9	6 30	17 30.99	-22 44.3	1.603	2.598	5.8	19.2
7 10	17 21.88	-37 47.0	2.101	3.029	9.5	21.0	7 10	17 23.06	-22 56.0	1.638	2.589	10.1	19.4
7 20	17 15.58	-37 4.7	2.158	3.017	12.2	21.2	7 20	17 17.28	-23 7.8	1.696	2.579	13.8	19.6
388727	2007 VH ₂₁₇	6 17.1 301°64' 0°9/17.2 16					195999	2002 RZ ₂₃₆	6 17.1 145°88' 0°7/17.0 18				
5 11	18 8.97	-25 36.0	1.950	2.787	13.9	21.6	5 11	18 9.89	-21 15.6	2.526	3.346	11.6	21.3
5 21	18 4.64	-25 42.9	1.864	2.781	10.8	21.4	5 21	18 4.58	-21 10.0	2.448	3.356	8.9	21.2
5 31	17 57.93	-25 47.9	1.799	2.774	7.2	21.1	5 31	17 57.49	-21 4.7	2.394	3.365	5.9	21.0
6 10	17 49.50	-25 49.6	1.760	2.767	3.2	20.9	6 10	17 49.21	-20 59.4	2.367	3.374	2.6	20.8
6 20	17 40.23	-25 46.9	1.747	2.761	1.5	20.7	6 20	17 40.43	-20 54.1	2.368	3.382	1.3	20.7
6 30	17 31.21	-25 40.0	1.760	2.755	5.5	21.0	6 30	17 31.93	-20 49.0	2.398	3.390	4.5	20.9
7 10	17 23.47	-25 30.0	1.800	2.749	9.4	21.2	7 10	17 24.47	-20 44.8	2.456	3.397	7.6	21.2
7 20	17 17.81	-25 19.1	1.863	2.743	12.9	21.4	7 20	17 18.59	-20 42.4	2.539	3.404	10.4	21.3
479974	2014 JV ₄₂	6 17.1 34°48' 6°2/15.9 16 R					324985	2008 AQ ₁₁₄	6 17.1 8°46' 3°1/17.5 17				
5 11	18 5.63	- 7 7.2	2.303	3.114	12.9	21.5	5 11	18 11.56	-30 30.7	1.339	2.192	18.1	20.4
5 21	18 1.41	- 6 6.0	2.228	3.116	10.6	21.4	5 21	18 7.66	-30 36.1	1.269	2.192	14.3	20.1
5 31	17 55.47	- 5 12.5	2.175	3.117	8.2	21.2	5 31	18 0.38	-30 33.7	1.218	2.193	9.8	19.9
6 10	17 48.35	- 4 29.8	2.147	3.119	6.5	21.1	6 10	17 50.65	-30 20.4	1.190	2.195	5.1	19.6
6 20	17 40.73	- 4 0.2	2.145	3.120	6.3	21.1	6 20	17 39.83	-29 54.5	1.185	2.196	3.4	19.5
6 30	17 33.36	- 3 45.3	2.169	3.122	7.8	21.2	6 30	17 29.60	-29 17.5	1.204	2.199	7.4	19.8
7 10	17 26.96	- 3 44.9	2.219	3.124	10.1	21.4	7 10	17 21.44	-28 33.9	1.246	2.202	12.1	20.0
7 20	17 22.08	- 3 57.9	2.291	3.126	12.4	21.5	7 20	17 16.32	-27 48.9	1.309	2.205	16.3	20.3
125615	2001 XT ₅₄	6 17.1 256°68' 0°4/17.1 17					393852	2005 SP ₁₇₀	6 17.1 294°66' 3°2/16.6 18				
5 11	18 12.40	-22 11.7	1.437	2.287	17.3	20.3	5 11	18 6.55	-15 33.8	2.185	3.014	12.9	21.0
5 21	18 8.07	-22 17.4	1.357	2.281	13.5	20.0	5 21	18 2.35	-14 59.6	2.098	3.008	10.1	20.8
5 31	18 0.60	-22 24.6	1.297	2.274	9.0	19.8	5 31	17 56.23	-14 28.3	2.033	3.001	7.0	20.5
6 10	17 50.75	-22 31.7	1.259	2.268	3.8	19.4	6 10	17 48.74	-14 1.6	1.994	2.994	4.1	20.4
6 20	17 39.71	-22 37.4	1.246	2.262	1.6	19.3	6 20	17 40.61	-13 40.7	1.982	2.988	3.5	20.3
6 30	17 28.96	-22 41.5	1.259	2.255	6.9	19.6	6 30	17 32.70	-13 27.0	1.998	2.981	6.0	20.4
7 10	17 19.96	-22 44.8	1.295	2.248	11.9	19.8	7 10	17 25.84	-13 21.1	2.039	2.975	9.2	20.6
7 20	17 13.72	-22 49.0	1.353	2.242	16.3	20.1	7 20	17 20.64	-13 23.0	2.103	2.968	12.2	20.8
322072	2010 VV ₁₁₁	6 17.1 281°68' 0°4/17.1 18					110697	2001 TO ₂₁₃	6 17.1 94°89' 1°9/16.8 18				
5 11	18 8.58	-22 55.9	2.432	3.258	11.9	20.9	5 11	18 14.01	-20 44.3	1.846	2.676	14.9	19.4
5 21	18 4.03	-23 21.0	2.324	3.235	9.2	20.7	5 21	18 8.08	-20 3.7	1.786	2.699	11.4	19.2
5 31	17 57.44	-23 47.7	2.239	3.212	6.1	20.5	5 31	17 59.87	-19 22.8	1.750	2.722	7.5	19.0
6 10	17 49.30	-24 14.5	2.181	3.189	2.6	20.2	6 10	17 50.20	-18 42.8	1.738	2.745	3.5	18.8
6 20	17 40.30	-24 39.7	2.151	3.166	1.1	20.0	6 20	17 40.08	-18 5.0	1.754	2.767	2.3	18.8
6 30	17 31.29	-25 2.4	2.149	3.142	4.8	20.3	6 30	17 30.57	-17 31.6	1.798	2.788	5.9	19.1
7 10	17 23.17	-25 22.3	2.174	3.118	8.3	20.4	7 10	17 22.62	-17 4.3	1.868	2.809	9.6	19.3
7 20	17 16.68	-25 39.9	2.224	3.094	11.5	20.6	7 20	17 16.82	-16 44.3	1.961	2.830	12.9	19.6
147347	2003 BL ₇₁	6 17.1 76°80' 5°3/17.2 17					507406	2012 KL ₂₂	6 17.1 321°85' 2°4/17.0 17				
5 11	18 10.26	-10 24.4	1.647	2.478	16.4	19.8	5 11	18 6.46	-18 37.4	1.327	2.190	17.7	21.3
5 21	18 5.53	-10 2.9	1.587	2.493	13.0	19.6	5 21	18 3.76	-18 28.6	1.241			

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
350140	2011 <i>SR</i> ₅₉		6 17.1 94°63	1.4/16.9	17		176703	2002 <i>QK</i> ₃₀		6 17.1 358°99	0.5/17.1	17	
5 11	18 8.95	-20 0.3	2.206	3.035	12.8	21.4	5 11	18 7.92	-20 57.7	1.204	2.072	18.8	19.5
5 21	18 4.05	-19 45.2	2.136	3.048	9.9	21.2	5 21	18 5.02	-21 16.5	1.136	2.070	14.6	19.3
5 31	17 57.22	-19 31.2	2.089	3.062	6.5	21.0	5 31	17 58.80	-21 39.7	1.086	2.068	9.7	19.0
6 10	17 49.11	-19 18.5	2.068	3.075	3.0	20.8	6 10	17 50.08	-22 5.7	1.058	2.067	4.2	18.7
6 20	17 40.50	-19 7.3	2.074	3.087	1.8	20.8	6 20	17 40.13	-22 32.2	1.052	2.068	1.7	18.5
6 30	17 32.25	-18 58.4	2.109	3.100	5.0	21.0	6 30	17 30.58	-22 57.5	1.070	2.069	7.4	18.9
7 10	17 25.17	-18 52.4	2.170	3.113	8.4	21.2	7 10	17 22.97	-23 21.2	1.110	2.070	12.6	19.2
7 20	17 19.83	-18 49.9	2.255	3.125	11.3	21.4	7 20	17 18.34	-23 43.9	1.169	2.073	17.2	19.4
45443	2000 <i>AR</i> ₁₇₉		6 17.1 42°62	1.2/16.9	18		248534	2005 <i>WU</i> ₁₈₀		6 17.1 218°40	3.7/16.7	18	
5 11	18 10.29	-23 32.9	1.676	2.520	15.5	17.5	5 11	18 6.06	-10 28.1	2.988	3.793	10.4	21.6
5 21	18 5.63	-22 43.2	1.610	2.531	11.9	17.3	5 21	18 1.46	-10 6.3	2.893	3.784	8.3	21.5
5 31	17 58.48	-21 50.0	1.565	2.542	7.8	17.1	5 31	17 55.42	-9 49.7	2.823	3.775	6.1	21.3
6 10	17 49.69	-20 54.7	1.545	2.553	3.4	16.8	6 10	17 48.38	-9 39.7	2.778	3.766	4.2	21.2
6 20	17 40.30	-19 59.4	1.551	2.565	1.9	16.7	6 20	17 40.85	-9 36.9	2.763	3.756	3.8	21.1
6 30	17 31.48	-19 7.3	1.584	2.577	6.1	17.0	6 30	17 33.44	-9 41.9	2.775	3.746	5.4	21.2
7 10	17 24.26	-18 21.5	1.641	2.589	10.2	17.3	7 10	17 26.76	-9 54.4	2.815	3.735	7.7	21.4
7 20	17 19.31	-17 44.1	1.721	2.602	13.8	17.5	7 20	17 21.27	-10 13.8	2.880	3.724	9.9	21.5
97989	2000 <i>QD</i> ₁₈₆		6 17.1 213°24	1.4/17.1	18		172526	<i>Carolinegarcia</i>		6 17.1 180°65	1.6/17.1	17	
5 11	18 13.74	-19 7.7	1.763	2.595	15.4	20.0	5 11	18 15.47	-26 30.2	2.008	2.831	14.1	21.5
5 21	18 8.53	-19 16.3	1.675	2.589	12.0	19.8	5 21	18 9.60	-26 56.7	1.924	2.833	11.0	21.3
5 31	18 0.64	-19 28.7	1.609	2.582	8.0	19.6	5 31	18 1.20	-27 21.7	1.863	2.834	7.3	21.0
6 10	17 50.74	-19 44.2	1.568	2.575	3.6	19.3	6 10	17 50.95	-27 42.3	1.828	2.834	3.5	20.8
6 20	17 39.81	-20 1.5	1.554	2.568	1.9	19.1	6 20	17 39.80	-27 56.3	1.820	2.833	2.0	20.7
6 30	17 29.08	-20 19.9	1.566	2.559	6.3	19.4	6 30	17 28.93	-28 3.0	1.841	2.832	5.7	20.9
7 10	17 19.75	-20 39.3	1.604	2.550	10.6	19.6	7 10	17 19.45	-28 3.4	1.888	2.830	9.5	21.2
7 20	17 12.72	-20 59.9	1.665	2.540	14.4	19.8	7 20	17 12.18	-27 59.8	1.959	2.827	12.9	21.4
147857	2005 <i>UW</i> ₃₈₁		6 17.1 204°14	4.9/17.1	18		477681	2010 <i>RO</i> ₈		6 17.1 312°35	1.8/16.9	17	
5 11	18 6.36	-6 18.2	2.690	3.488	11.6	20.6	5 11	18 6.69	-19 17.8	2.069	2.905	13.3	21.8
5 21	18 1.80	-6 5.0	2.604	3.485	9.5	20.4	5 21	18 2.67	-19 0.2	1.980	2.896	10.3	21.6
5 31	17 55.69	-6 0.6	2.541	3.482	7.2	20.3	5 31	17 56.57	-18 44.0	1.913	2.887	6.9	21.3
6 10	17 48.49	-6 6.6	2.503	3.479	5.4	20.1	6 10	17 48.95	-18 29.7	1.871	2.878	3.3	21.1
6 20	17 40.78	-6 23.5	2.492	3.475	5.0	20.1	6 20	17 40.61	-18 17.8	1.856	2.869	2.2	21.0
6 30	17 33.21	-6 51.2	2.509	3.471	6.4	20.2	6 30	17 32.48	-18 9.1	1.869	2.860	5.6	21.2
7 10	17 26.46	-7 28.5	2.553	3.467	8.6	20.3	7 10	17 25.46	-18 4.4	1.907	2.852	9.2	21.4
7 20	17 21.02	-8 13.7	2.621	3.463	10.8	20.5	7 20	17 20.24	-18 4.3	1.968	2.844	12.5	21.6
488283	2016 <i>TY</i> ₉₁		6 17.1 273°24	1°1/17.2	17		104225	2000 <i>EE</i> ₁₂₃		6 17.1 98°48	0°1/17.1	17	
5 11	18 8.97	-26 5.9	2.303	3.131	12.4	21.4	5 11	18 11.86	-23 5.9	1.623	2.466	16.0	20.4
5 21	18 4.41	-26 17.0	2.202	3.114	9.6	21.2	5 21	18 7.15	-23 7.0	1.551	2.471	12.4	20.2
5 31	17 57.72	-26 26.4	2.124	3.097	6.4	21.0	5 31	17 59.71	-23 7.9	1.499	2.476	8.1	19.9
6 10	17 49.45	-26 32.6	2.073	3.080	2.9	20.7	6 10	17 50.32	-23 7.5	1.472	2.481	3.5	19.6
6 20	17 40.36	-26 34.4	2.048	3.062	1.5	20.6	6 20	17 40.07	-23 4.9	1.470	2.485	1.4	19.5
6 30	17 31.38	-26 31.5	2.052	3.045	5.0	20.8	6 30	17 30.25	-23 0.4	1.495	2.490	6.2	19.8
7 10	17 23.44	-26 24.9	2.082	3.027	8.6	21.0	7 10	17 22.05	-22 55.4	1.544	2.495	10.5	20.1
7 20	17 17.27	-26 16.3	2.136	3.009	11.8	21.2	7 20	17 16.30	-22 51.4	1.615	2.499	14.3	20.3
29949	1999 <i>JM</i> ₈₅		6 17.1 287°40	1.7/17.2	18		3336	<i>Grygar</i>		6 17.1 279°29	0°3/17.1	18	
5 11	18 8.20	-17 3.6	2.126	2.956	13.2	17.9	5 11	18 11.72	-23 6.1	1.551	2.398	16.4	18.1
5 21	18 3.81	-17 20.5	2.037	2.949	10.3	17.7	5 21	18 7.56	-23 2.4	1.455	2.377	12.9	17.9
5 31	17 57.31	-17 42.6	1.969	2.941	6.9	17.4	5 31	18 0.37	-22 58.1	1.379	2.357	8.6	17.5
6 10	17 49.28	-18 9.5	1.928	2.934	3.3	17.2	6 10	17 50.78	-22 52.3	1.327	2.336	3.7	17.2
6 20	17 40.45	-18 40.1	1.913	2.926	2.0	17.1	6 20	17 39.85	-22 44.0	1.299	2.315	1.6	17.0
6 30	17 31.77	-19 13.3	1.927	2.919	5.4	17.3	6 30	17 29.01	-22 33.7	1.298	2.293	6.8	17.3
7 10	17 24.14	-19 48.2	1.967	2.912	9.0	17.5	7 10	17 19.68	-22 22.9	1.320	2.272	11.8	17.5
7 20	17 18.28	-20 24.0	2.030	2.904	12.2	17.7	7 20	17 12.96	-22 14.0	1.363	2.250	16.3	17.7
221022	2005 <i>QE</i> ₅		6 17.1 249°81	2°1/17.3	18		499782	2011 <i>CE</i> ₄₉		6 17.1 75°87	5°3/17.5	17	
5 11	18 13.54	-28 38.2	1.923	2.752	14.4	21.5	5 11	18 16.37	-35 3.5	1.658	2.484	16.5	21.9
5 21	18 8.44	-28 50.8	1.825	2.736	11.4	21.3	5 21	18 10.78	-35 49.2	1.602	2.504	13.1	21.7
5 31	18 0.63	-28 59.4	1.749	2.720	7.7	21.0	5 31	18 2.11	-36 25.7	1.565	2.524	9.5	21.5
6 10	17 50.77	-29 1.5	1.698	2.703	3.9	20.8	6 10	17 51.33	-36 47.9	1.553	2.544	6.3	21.4
6 20	17 39.83	-28 55.1	1.673	2.686	2.4	20.6	6 20	17 39.72	-36 52.6	1.565	2.564	5.4	21.4
6 30	17 29.05	-28 40.1	1.676	2.668	6.1	20.8	6 30	17 28.80	-36 39.9	1.604	2.583	7.7	21.5
7 10	17 19.63	-28 18.4	1.705	2.650	10.1	21.0	7 10	17 19.86	-36 13.4	1.667	2.603	10.9	21.8
7 20	17 12.51	-27 53.2	1.757	2.631	13.8	21.2	7 20	17 13.75	-35 38.4	1.752	2.622	14.1	22.0
499444	2010 <i>EW</i> ₂₇		6 17.1 206°67	5.4/16.5	18		314390	2005 <i>UT</i> ₁₃₈		6 17.1 159°59	1°9/16.9	18	
5 11	18 9.64	-8 57.2	2.230	3.039	13.3	22.2	5 11	18 6.96	-18 12.2	2.522	3.347	11.5	21.6
5 21	18 4.65	-8 16.6	2.143	3.034	10.8	22.0	5 21	18 2.40	-17 53.6	2.440	3.349	8.9	21.5
5 31	17 57.72	-7 43.1	2.079	3.028	8.1	21.9	5 31	17 56.13	-17 36.9	2.381	3.351	6.0	21.3
6 10	17 49.40	-7 19.3	2.040	3.022	5.9	21.7	6 10	17 48.70	-17 22.4	2.348	3.352	3.0	21.1
6 20	17 40.43	-7 7.0	2.028	3.015	5.6	21.7	6 20	17 40.76	-17 10.7	2.343	3.354	2.1	21.0
6 30	17 31.65	-7 7.0	2.043	3.008	7.4	21.8	6 30	17 33.06	-17 2.4	2.367	3.355	4.8	21.2
7 10	17 23.90	-7 19.3	2.083	3.000	10.1	21.9	7 10	17 26.31	-16 58.0	2.417	3.357	7.8	21.4
7 20	17 17.81	-7 42.4	2.147	2.991	12.8	22.1	7 20	17 21.04	-16 57.9	2.493	3.358	10.6	21.6
241156	2007 <i>RJ</i> ₇₃		6 17.1 196°75	0°1/17.1	17		393844	2005 <i>SD</i> ₁₄₂		6 17.1 178°32	4°1/		

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
501612	2014 <i>RE</i>		6 17.1 237°65	2°2/16.9	17		462225	2007 <i>XW</i> ₃₈		6 17.1 92°63	1°9/16.9	17	
5 11	18 14.78	-18 48.0	2.046	2.867	14.0	22.4	5 11	18 16.25	-24 4.2	1.555	2.393	16.8	20.4
5 21	18 9.07	-18 23.5	1.941	2.848	11.0	22.2	5 21	18 10.77	-25 9.3	1.490	2.407	13.0	20.2
5 31	18 0.90	-17 59.8	1.858	2.827	7.4	21.9	5 31	18 2.23	-26 16.8	1.447	2.422	8.6	20.0
6 10	17 50.88	-17 37.2	1.801	2.806	3.7	21.7	6 10	17 51.47	-27 22.0	1.429	2.436	4.0	19.8
6 20	17 39.85	-17 16.6	1.772	2.783	2.6	21.5	6 20	17 39.68	-28 19.7	1.437	2.450	2.5	19.7
6 30	17 28.89	-16 59.0	1.772	2.760	6.2	21.7	6 30	17 28.32	-29 6.9	1.471	2.463	6.7	20.0
7 10	17 19.10	-16 45.9	1.798	2.735	10.2	21.9	7 10	17 18.78	-29 43.3	1.531	2.477	11.0	20.3
7 20	17 11.33	-16 38.6	1.848	2.709	13.8	22.1	7 20	17 11.97	-30 10.7	1.613	2.490	14.7	20.5
97337	1999 <i>YA</i> ₃		6 17.1 249°20	9°0/18.9	18		274152	2008 <i>FB</i> ₇₆		6 17.1 279°20	17°3/13.6	14 C	
5 11	18 23.98	-50 36.6	2.292	3.041	14.8	19.7	5 11	18 26.37	-50 55.6	1.251	2.047	22.4	21.0
5 21	18 16.78	-51 6.4	2.195	3.025	12.9	19.6	5 21	18 22.80	-53 49.6	1.185	2.036	20.3	20.8
5 31	18 6.19	-51 19.0	2.118	3.008	11.0	19.4	5 31	18 12.96	-56 29.3	1.136	2.026	18.5	20.7
6 10	17 53.13	-51 8.0	2.064	2.992	9.5	19.3	6 10	17 57.10	-58 36.5	1.106	2.015	17.4	20.6
6 20	17 38.98	-50 29.0	2.034	2.974	9.0	19.2	6 20	17 37.12	-59 54.5	1.094	2.004	17.6	20.5
6 30	17 25.43	-49 22.1	2.030	2.957	9.8	19.2	6 30	17 16.81	-60 14.9	1.102	1.993	19.0	20.6
7 10	17 13.98	-47 51.9	2.051	2.938	11.6	19.3	7 10	17 0.35	-59 43.4	1.126	1.982	21.1	20.7
7 20	17 5.60	-46 6.4	2.096	2.920	13.8	19.4	7 20	16 50.37	-58 34.2	1.164	1.972	23.5	20.8
137114	1999 <i>AT</i> ₂₄		6 17.1 74°40	1°9/17.3	18		67830	2000 <i>VF</i> ₅₀		6 17.1 249°64	0°1/17.1	17	
5 11	18 13.15	-28 9.5	1.614	2.454	16.2	19.5	5 11	18 13.68	-24 14.6	1.705	2.542	15.6	20.5
5 21	18 8.13	-28 14.1	1.550	2.468	12.6	19.3	5 21	18 8.74	-24 1.1	1.611	2.527	12.2	20.3
5 31	18 0.30	-28 14.0	1.507	2.481	8.4	19.0	5 31	18 0.94	-23 45.0	1.537	2.512	8.1	20.0
6 10	17 50.55	-28 6.9	1.487	2.494	4.0	18.8	6 10	17 50.97	-23 25.4	1.487	2.496	3.5	19.7
6 20	17 40.05	-27 51.7	1.494	2.507	2.3	18.7	6 20	17 39.87	-23 1.8	1.464	2.479	1.4	19.5
6 30	17 30.13	-27 29.6	1.526	2.520	6.2	19.0	6 30	17 28.97	-22 35.6	1.468	2.462	6.4	19.8
7 10	17 22.01	-27 3.3	1.584	2.534	10.4	19.3	7 10	17 19.55	-22 9.1	1.497	2.445	11.0	20.0
7 20	17 16.44	-26 36.2	1.663	2.547	14.0	19.5	7 20	17 12.59	-21 45.2	1.548	2.427	15.1	20.2
513017	2017 <i>UL</i> ₄₉		6 17.1 187°20	10°0/15.1	18		3693	Barringer		6 17.1 284°94	7°0/16.1	18 R	
5 11	18 8.09	+ 1 49.9	2.096	2.876	15.0	21.5	5 11	18 5.45	- 3 36.5	2.373	3.172	13.0	16.9
5 21	18 3.50	+ 3 20.3	2.026	2.876	13.1	21.4	5 21	18 1.45	- 2 46.4	2.277	3.152	10.9	16.8
5 31	17 56.97	+ 4 37.2	1.976	2.875	11.3	21.3	5 31	17 55.67	- 2 5.8	2.203	3.132	8.8	16.6
6 10	17 49.10	+ 5 35.5	1.950	2.875	10.1	21.2	6 10	17 48.59	- 1 37.8	2.152	3.112	7.3	16.5
6 20	17 40.62	+ 6 11.2	1.947	2.874	10.1	21.2	6 20	17 40.85	- 1 25.0	2.128	3.092	7.2	16.4
6 30	17 32.39	+ 6 22.4	1.969	2.873	11.2	21.3	6 30	17 33.19	- 1 28.8	2.129	3.072	8.5	16.5
7 10	17 25.24	+ 6 10.0	2.014	2.871	13.0	21.4	7 10	17 26.36	- 1 48.6	2.155	3.052	10.7	16.6
7 20	17 19.78	+ 5 37.1	2.078	2.870	15.0	21.5	7 20	17 21.00	- 2 22.8	2.203	3.032	13.1	16.7
474175	1999 <i>TG</i> ₃₀₄		6 17.1 280°55	4°6/17.3	16		377469	2004 <i>XD</i> ₁₀₈		6 17.1 108°08	2°3/17.2	18	
5 11	18 10.75	-36 7.1	2.335	3.147	12.7	21.7	5 11	18 14.38	-29 14.3	2.323	3.139	12.7	21.8
5 21	18 5.97	-36 43.3	2.243	3.137	10.3	21.5	5 21	18 8.25	-29 43.0	2.260	3.162	9.8	21.6
5 31	17 58.84	-37 12.5	2.173	3.126	7.6	21.3	5 31	18 0.02	-30 7.7	2.219	3.185	6.6	21.4
6 10	17 49.98	-37 31.1	2.129	3.116	5.3	21.1	6 10	17 50.37	-30 26.0	2.206	3.208	3.5	21.3
6 20	17 40.23	-37 36.6	2.111	3.105	4.7	21.1	6 20	17 40.18	-30 36.2	2.220	3.230	2.5	21.2
6 30	17 30.68	-37 28.1	2.120	3.094	6.5	21.2	6 30	17 30.42	-30 38.1	2.263	3.251	5.1	21.5
7 10	17 22.35	-37 7.6	2.155	3.084	9.2	21.3	7 10	17 21.97	-30 33.1	2.334	3.271	8.1	21.7
7 20	17 16.03	-36 38.1	2.213	3.073	11.9	21.5	7 20	17 15.47	-30 23.5	2.429	3.291	10.9	21.9
497910	2006 <i>VT</i> ₃₈		6 17.1 197°66	0°8/17.1	17		367741	2010 <i>VW</i> ₂₈		6 17.1 329°39	1°0/17.2	17	
5 11	18 12.38	-22 9.1	1.810	2.646	14.9	22.1	5 11	18 6.62	-20 11.0	1.179	2.050	18.9	20.4
5 21	18 7.33	-21 55.6	1.728	2.644	11.6	21.9	5 21	18 4.30	-20 25.5	1.098	2.034	14.9	20.1
5 31	17 59.75	-21 41.6	1.667	2.642	7.6	21.7	5 31	17 58.57	-20 45.6	1.037	2.019	9.9	19.7
6 10	17 50.35	-21 26.8	1.631	2.639	3.3	21.4	6 10	17 50.13	-21 10.3	0.996	2.005	4.4	19.4
6 20	17 40.11	-21 11.1	1.622	2.637	1.6	21.3	6 20	17 40.18	-21 37.9	0.977	1.992	2.0	19.2
6 30	17 30.19	-20 55.5	1.640	2.634	5.9	21.5	6 30	17 30.39	-22 6.4	0.981	1.980	7.8	19.5
7 10	17 21.71	-20 41.6	1.683	2.630	10.1	21.8	7 10	17 22.43	-22 35.1	1.007	1.969	13.4	19.8
7 20	17 15.45	-20 31.0	1.750	2.626	13.8	22.0	7 20	17 17.54	-23 3.9	1.051	1.959	18.3	20.0
399911	2005 <i>XU</i> ₆₂		6 17.1 218°41	0°1/17.1	18		144498	2004 <i>ES</i> ₆₇		6 17.1 144°15	2°1/16.9	17	
5 11	18 8.08	-24 33.2	2.558	3.383	11.4	21.1	5 11	18 12.67	-18 31.8	1.890	2.719	14.6	21.4
5 21	18 3.32	-24 15.8	2.469	3.379	8.8	20.9	5 21	18 7.28	-18 15.2	1.817	2.728	11.3	21.2
5 31	17 56.77	-23 56.1	2.403	3.376	5.8	20.7	5 31	17 59.57	-18 0.9	1.765	2.737	7.6	21.0
6 10	17 48.99	-23 33.8	2.364	3.372	2.5	20.5	6 10	17 50.24	-17 49.4	1.739	2.744	3.7	20.7
6 20	17 40.68	-23 9.2	2.354	3.369	1.0	20.3	6 20	17 40.23	-17 40.9	1.740	2.752	2.5	20.7
6 30	17 32.60	-22 43.4	2.372	3.365	4.4	20.6	6 30	17 30.61	-17 36.1	1.768	2.758	6.0	20.9
7 10	17 25.50	-22 17.7	2.417	3.361	7.6	20.8	7 10	17 22.38	-17 35.6	1.822	2.765	9.8	21.1
7 20	17 19.99	-21 53.9	2.487	3.357	10.4	21.0	7 20	17 16.24	-17 39.8	1.900	2.770	13.1	21.4
360149	2013 <i>CH</i> ₅₈		6 17.1 164°72	1°5/17.3	16		419958	2011 <i>BM</i> ₁₀₀		6 17.1 83°37	2°7/17.6	17	
5 11	18 14.70	-27 1.7	1.349	2.199	18.2	21.0	5 11	18 14.25	-31 12.6	1.695	2.528	15.9	20.9
5 21	18 10.03	-27 1.7	1.277	2.200	14.2	20.7	5 21	18 8.91	-31 8.6	1.628	2.540	12.4	20.7
5 31	18 1.96	-26 57.4	1.224	2.201	9.5	20.5	5 31	18 0.78	-30 56.6	1.582	2.552	8.5	20.5
6 10	17 51.39	-26 46.2	1.193	2.201	4.3	20.2	6 10	17 50.76	-30 34.5	1.560	2.564	4.4	20.3
6 20	17 39.70	-26 26.8	1.188	2.202	2.1	20.0	6 20	17 40.04	-30 1.5	1.565	2.576	2.9	20.2
6 30	17 28.53	-26 0.5	1.207	2.202	7.2	20.3	6 30	17 29.94	-29 19.7	1.595	2.588	6.3	20.5
7 10	17 19.43	-25 30.6	1.249	2.203	12.2	20.6	7 10	17 21.64	-28 32.9	1.652	2.599	10.2	20.7
7 20	17 13.37	-25 1.3	1.312	2.203	16.5	20.9	7 20	17 15.89	-27 45.4	1.730	2.611	13.7	21.0
125706	2001 <i>XZ</i> ₉₇		6 17.1 292°85	1°6/17.4	18		41833	2000 <i>WE</i>					

EPHEMERIDES

6 17.1

6 17.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
498119	2007 <i>SF</i> ₉	6 17.1 260°01		4°5/17.1 17			93501	2000 <i>TE</i> ₅₀	6 17.1 174°19		5°8/16.9 18		
5 11	18 15.99	-31 41.8	1.634	2.466	16.4	22.4	5 11	18 9.51	-6 52.0	2.178	2.983	13.7	20.1
5 21	18 11.13	-32 28.8	1.539	2.448	13.1	22.1	5 21	18 4.56	-6 23.0	2.100	2.986	11.2	19.9
5 31	18 2.90	-33 12.1	1.463	2.429	9.4	21.9	5 31	17 57.68	-6 3.7	2.043	2.987	8.6	19.7
6 10	17 51.96	-33 46.3	1.412	2.410	5.7	21.6	6 10	17 49.44	-5 56.5	2.011	2.989	6.4	19.6
6 20	17 39.45	-34 6.4	1.385	2.390	4.7	21.5	6 20	17 40.59	-6 2.4	2.006	2.990	5.9	19.6
6 30	17 26.96	-34 9.9	1.385	2.370	7.9	21.6	6 30	17 31.98	-6 21.8	2.027	2.990	7.6	19.7
7 10	17 16.14	-33 58.6	1.408	2.349	12.2	21.8	7 10	17 24.44	-6 53.3	2.075	2.990	10.2	19.8
7 20	17 8.20	-33 36.9	1.454	2.328	16.2	22.0	7 20	17 18.58	-7 35.0	2.145	2.990	12.8	20.0
315214	2007 <i>RV</i> ₉₅	6 17.1 277°52		1°8/17.2 17			22066	2000 <i>AX</i> ₁₀₀	6 17.1 218°27		1°7/17.1 18		
5 11	18 12.96	-26 7.9	1.477	2.324	17.1	20.9	5 11	18 6.97	-17 20.4	2.642	3.463	11.2	18.9
5 21	18 8.83	-26 30.7	1.384	2.305	13.4	20.6	5 21	18 2.43	-17 20.5	2.551	3.458	8.7	18.7
5 31	18 1.39	-26 52.8	1.310	2.286	9.1	20.3	5 31	17 56.21	-17 23.8	2.485	3.454	5.8	18.5
6 10	17 51.31	-27 11.0	1.260	2.267	4.3	20.0	6 10	17 48.81	-17 30.1	2.445	3.449	2.9	18.3
6 20	17 39.72	-27 22.2	1.234	2.248	2.4	19.8	6 20	17 40.85	-17 39.3	2.433	3.444	2.0	18.3
6 30	17 28.17	-27 25.1	1.233	2.228	7.2	20.0	6 30	17 33.04	-17 51.3	2.449	3.439	4.6	18.4
7 10	17 18.29	-27 21.1	1.256	2.208	12.3	20.3	7 10	17 26.08	-18 5.9	2.493	3.433	7.6	18.6
7 20	17 11.27	-27 13.1	1.300	2.188	16.8	20.5	7 20	17 20.54	-18 23.1	2.562	3.428	10.3	18.8
418158	2008 <i>AR</i> ₁₀₁	6 17.1 150°45		0°1/17.1 17			93242	2000 <i>SF</i> ₁₅₃	6 17.1 247°68		1°5/17.0 18		
5 11	18 14.95	-23 53.9	1.965	2.791	14.3	22.7	5 11	18 10.11	-20 4.3	1.876	2.712	14.4	19.4
5 21	18 9.02	-23 47.7	1.890	2.801	11.0	22.5	5 21	18 5.55	-19 51.9	1.789	2.705	11.2	19.2
5 31	18 0.69	-23 39.8	1.838	2.810	7.2	22.3	5 31	17 58.61	-19 40.8	1.725	2.699	7.5	19.0
6 10	17 50.72	-23 29.4	1.811	2.819	3.1	22.1	6 10	17 49.92	-19 31.1	1.685	2.692	3.4	18.7
6 20	17 40.06	-23 16.1	1.811	2.827	1.2	21.9	6 20	17 40.39	-19 22.9	1.671	2.685	2.0	18.6
6 30	17 29.83	-23 0.5	1.840	2.834	5.4	22.2	6 30	17 31.10	-19 16.9	1.685	2.678	5.9	18.8
7 10	17 21.05	-22 44.5	1.896	2.840	9.3	22.5	7 10	17 23.10	-19 13.8	1.724	2.670	9.9	19.1
7 20	17 14.43	-22 30.0	1.975	2.845	12.7	22.7	7 20	17 17.17	-19 14.6	1.786	2.663	13.5	19.3
423122	2004 <i>BY</i> ₁₃₈	6 17.1 211°56		0°6/17.2 17 R			491728	2012 <i>UR</i> ₁₇₂	6 17.1 271°87		1°8/16.8 16		
5 11	18 13.86	-24 56.8	1.936	2.764	14.3	22.5	5 11	18 9.88	-21 1.7	2.029	2.861	13.6	21.5
5 21	18 8.47	-24 59.9	1.846	2.758	11.2	22.2	5 21	18 5.22	-20 20.2	1.932	2.846	10.6	21.3
5 31	18 0.54	-25 1.3	1.779	2.752	7.4	22.0	5 31	17 58.32	-19 36.7	1.858	2.831	7.1	21.0
6 10	17 50.74	-24 59.4	1.737	2.744	3.2	21.7	6 10	17 49.79	-18 52.2	1.810	2.816	3.4	20.8
6 20	17 40.02	-24 53.0	1.722	2.737	1.4	21.6	6 20	17 40.45	-18 8.3	1.788	2.801	2.3	20.7
6 30	17 29.55	-24 42.6	1.735	2.728	5.7	21.8	6 30	17 31.32	-17 27.3	1.795	2.785	5.9	20.9
7 10	17 20.45	-24 29.6	1.774	2.719	9.8	22.1	7 10	17 23.38	-16 51.5	1.827	2.769	9.7	21.1
7 20	17 13.55	-24 16.2	1.836	2.709	13.4	22.3	7 20	17 17.37	-16 22.7	1.883	2.754	13.2	21.2
117302	2004 <i>VP</i> ₅	6 17.1 317°78		1°6/17.4 18			47507	2000 <i>AM</i> ₅₈	6 17.1 251°44		0°8/17.1 18		
5 11	18 7.78	-28 53.4	2.047	2.882	13.4	19.0	5 11	18 12.67	-20 59.8	1.861	2.693	14.7	19.5
5 21	18 3.77	-28 45.8	1.950	2.865	10.5	18.8	5 21	18 7.77	-21 4.3	1.762	2.676	11.5	19.3
5 31	17 57.44	-28 32.9	1.876	2.849	7.1	18.6	5 31	18 0.24	-21 10.7	1.684	2.658	7.7	19.0
6 10	17 49.42	-28 13.3	1.827	2.833	3.4	18.3	6 10	17 50.70	-21 18.1	1.632	2.640	3.4	18.7
6 20	17 40.56	-27 46.4	1.804	2.817	2.0	18.2	6 20	17 40.05	-21 25.5	1.606	2.621	1.5	18.5
6 30	17 31.92	-27 13.3	1.808	2.802	5.4	18.4	6 30	17 29.47	-21 32.5	1.608	2.601	6.0	18.8
7 10	17 24.51	-26 36.4	1.838	2.787	9.2	18.6	7 10	17 20.14	-21 39.6	1.635	2.581	10.4	19.0
7 20	17 19.09	-25 58.6	1.891	2.773	12.7	18.7	7 20	17 13.00	-21 47.9	1.685	2.561	14.3	19.2
228511	2001 <i>XC</i> ₁₃₇	6 17.1 321°89		0°6/17.1 18			303878	2005 <i>TW</i> ₃₄	6 17.1 228°00		3°2/17.3 18		
5 11	18 6.87	-21 16.5	1.356	2.219	17.4	19.2	5 11	18 10.43	-32 14.5	2.440	3.257	12.1	21.3
5 21	18 4.18	-21 27.8	1.267	2.198	13.7	18.9	5 21	18 5.49	-32 45.8	2.352	3.253	9.6	21.1
5 31	17 58.35	-21 42.7	1.197	2.177	9.1	18.6	5 31	17 58.42	-33 12.3	2.287	3.248	6.7	21.0
6 10	17 50.02	-22 0.0	1.148	2.158	4.0	18.2	6 10	17 49.82	-33 31.4	2.247	3.244	4.1	20.8
6 20	17 40.28	-22 18.3	1.124	2.139	1.7	18.0	6 20	17 40.46	-33 41.0	2.235	3.239	3.4	20.7
6 30	17 30.59	-22 36.4	1.123	2.121	7.2	18.3	6 30	17 31.29	-33 40.4	2.251	3.234	5.5	20.9
7 10	17 22.51	-22 54.2	1.144	2.103	12.5	18.6	7 10	17 23.25	-33 31.0	2.293	3.229	8.4	21.0
7 20	17 17.17	-23 12.3	1.186	2.087	17.2	18.8	7 20	17 17.02	-33 15.1	2.360	3.224	11.1	21.2
163355	2002 <i>NQ</i> ₄₉	6 17.1 279°66		1°0/17.1 18			97563	2000 <i>DS</i> ₈₂	6 17.2 161°24		1°4/17.2 18		
5 11	18 9.47	-20 36.0	2.038	2.871	13.6	20.6	5 11	18 10.90	-26 21.4	2.107	2.936	13.3	19.7
5 21	18 5.07	-20 32.8	1.934	2.849	10.6	20.4	5 21	18 5.97	-26 40.9	2.026	2.938	10.3	19.5
5 31	17 58.35	-20 31.0	1.852	2.825	7.1	20.1	5 31	17 58.78	-26 58.5	1.968	2.940	6.9	19.3
6 10	17 49.85	-20 30.3	1.795	2.802	3.2	19.8	6 10	17 49.97	-27 12.5	1.935	2.942	3.2	19.1
6 20	17 40.38	-20 30.3	1.764	2.779	1.6	19.7	6 20	17 40.41	-27 21.1	1.929	2.943	1.8	19.0
6 30	17 30.94	-20 31.0	1.762	2.755	5.6	19.9	6 30	17 31.13	-27 23.9	1.952	2.944	5.3	19.2
7 10	17 22.59	-20 33.2	1.785	2.731	9.7	20.1	7 10	17 23.11	-27 22.1	2.000	2.946	8.8	19.5
7 20	17 16.15	-20 37.7	1.831	2.707	13.3	20.2	7 20	17 17.05	-27 17.4	2.073	2.947	12.0	19.7
174734	2003 <i>UO</i> ₁₉₀	6 17.1 352°95		4°1/17.2 18			58779	1998 <i>FA</i> ₇₀	6 17.2 327°35		1°9/17.1 18		
5 11	18 13.04	-30 27.0	1.400	2.249	17.8	19.5	5 11	18 4.27	-24 34.1	1.090	1.971	19.4	18.1
5 21	18 8.92	-31 10.8	1.328	2.247	14.1	19.3	5 21	18 3.07	-25 10.1	1.002	1.943	15.4	17.8
5 31	18 1.37	-31 50.4	1.275	2.247	9.8	19.0	5 31	17 58.19	-25 49.8	0.931	1.915	10.4	17.4
6 10	17 51.24	-32 20.4	1.244	2.246	5.6	18.8	6 10	17 50.18	-26 29.9	0.880	1.889	4.8	17.0
6 20	17 39.83	-32 36.6	1.237	2.245	4.4	18.7	6 20	17 40.21	-27 6.3	0.850	1.864	2.7	16.8
6 30	17 28.83	-32 37.7	1.255	2.245	7.9	18.9	6 30	17 30.11	-27 35.3	0.841	1.841	8.6	17.0
7 10	17 19.82	-32 26.0	1.296	2.245	12.3	19.2	7 10	17 21.90	-27 56.3	0.853	1.819	14.6	17.3
7 20	17 13.87	-32 6.1	1.357	2.245	16.3	19.4	7 20	17 17.10	-28 11.0	0.882	1.799	20.0	17.5
290821	2005 <i>VA</i> ₁₂₄	6 17.1 289°82		0°1/17.2 18			383633	2007 <i>RY</i> ₁₆₂	6 17.2 344°11		3°2/17.4 16		

EPHEMERIDES

6 17.2

6 17.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
44958	1999 VT ₇₈		6 17.2 40°17'	4.9°/17.3	18		246981	1999 TG ₂₄₇		6 17.2 271°81'	5.9°/15.7	18	
5 11	18 14.05	-32 39.0	1.440	2.283	17.7	19.1	5 11	18 6.38	-7 6.7	2.522	3.326	12.1	20.6
5 21	18 9.63	-33 24.0	1.371	2.286	14.1	18.9	5 21	18 2.07	-6 5.8	2.424	3.307	10.0	20.5
5 31	18 1.79	-34 2.4	1.322	2.289	10.0	18.7	5 31	17 56.06	-5 10.8	2.348	3.288	7.8	20.3
6 10	17 51.41	-34 28.5	1.295	2.293	6.2	18.4	6 10	17 48.83	-4 24.8	2.298	3.269	6.2	20.2
6 20	17 39.86	-34 38.2	1.292	2.297	5.1	18.4	6 20	17 40.98	-3 50.4	2.275	3.249	6.1	20.1
6 30	17 28.80	-34 30.5	1.314	2.301	8.1	18.6	6 30	17 33.22	-3 29.5	2.279	3.230	7.6	20.2
7 10	17 19.79	-34 8.9	1.360	2.305	12.1	18.8	7 10	17 26.28	-3 22.7	2.308	3.210	9.9	20.3
7 20	17 13.84	-33 38.4	1.426	2.309	15.9	19.1	7 20	17 20.74	-3 29.2	2.361	3.190	12.3	20.4
381895	2010 BF ₄		6 17.2 20°17'	8.3°/18.3	18		71785	2000 SY ₁₇₇		6 17.2 53°36'	6.2°/17.7	18	
5 11	18 15.58	-43 11.7	1.701	2.509	16.9	19.7	5 11	18 15.73	-35 23.2	1.294	2.138	19.2	18.3
5 21	18 10.71	-43 56.1	1.631	2.512	14.2	19.6	5 21	18 11.20	-36 6.5	1.237	2.150	15.4	18.1
5 31	18 2.41	-44 25.5	1.580	2.514	11.3	19.4	5 31	18 2.91	-36 38.8	1.197	2.161	11.2	17.9
6 10	17 51.64	-44 33.5	1.551	2.517	9.0	19.3	6 10	17 51.91	-36 53.8	1.180	2.173	7.5	17.7
6 20	17 39.79	-44 16.1	1.546	2.520	8.3	19.2	6 20	17 39.80	-36 47.4	1.185	2.185	6.3	17.7
6 30	17 28.57	-43 33.7	1.565	2.524	9.7	19.3	6 30	17 28.48	-36 20.1	1.214	2.198	9.0	17.8
7 10	17 19.50	-42 31.3	1.607	2.528	12.3	19.5	7 10	17 19.61	-35 37.2	1.265	2.211	12.9	18.1
7 20	17 13.51	-41 16.4	1.671	2.532	15.1	19.7	7 20	17 14.14	-34 46.1	1.337	2.223	16.6	18.4
505475	2013 UG ₇		6 17.2 209°84'	2.0°/17.0	17		121324	1999 SQ ₅		6 17.2 160°24'	16.3°/18.1	18	
5 11	18 11.38	-17 27.1	2.317	3.136	12.6	23.1	5 11	18 15.96	+12 53.1	1.505	2.244	21.6	19.9
5 21	18 6.07	-17 19.3	2.223	3.129	9.8	22.9	5 21	18 10.29	+14 19.3	1.450	2.252	19.7	19.8
5 31	17 58.75	-17 14.3	2.153	3.121	6.6	22.6	5 31	18 1.81	+15 16.8	1.410	2.259	17.9	19.6
6 10	17 49.97	-17 12.4	2.109	3.113	3.4	22.4	6 10	17 51.35	+15 37.3	1.389	2.265	16.6	19.6
6 20	17 40.46	-17 13.6	2.093	3.104	2.3	22.3	6 20	17 40.01	+15 16.2	1.387	2.270	16.3	19.6
6 30	17 31.12	-17 18.0	2.105	3.094	5.3	22.5	6 30	17 29.15	+14 13.4	1.405	2.273	17.0	19.6
7 10	17 22.80	-17 26.0	2.145	3.083	8.7	22.7	7 10	17 19.96	+12 34.5	1.443	2.276	18.5	19.7
7 20	17 16.19	-17 37.5	2.209	3.072	11.8	22.9	7 20	17 13.30	+10 28.4	1.498	2.278	20.3	19.9
63144	2000 XQ ₃		6 17.2 252°09'	6.5°/16.7	18		124781	2001 SS ₂₅₂		6 17.2 82°64'	7.1°/16.9	18	
5 11	18 14.85	-41 47.4	2.585	3.371	12.3	19.6	5 11	18 18.11	-35 5.4	1.354	2.191	18.9	19.6
5 21	18 9.31	-42 54.2	2.490	3.357	10.4	19.5	5 21	18 13.19	-36 27.4	1.292	2.200	15.2	19.4
5 31	18 1.22	-43 53.1	2.417	3.342	8.4	19.3	5 31	18 4.39	-37 41.9	1.250	2.209	11.3	19.2
6 10	17 51.14	-44 38.9	2.369	3.328	6.8	19.2	6 10	17 52.64	-38 40.2	1.229	2.218	8.0	19.0
6 20	17 39.95	-45 7.7	2.348	3.313	6.6	19.2	6 20	17 39.47	-39 15.5	1.233	2.227	7.3	19.0
6 30	17 28.79	-45 17.6	2.354	3.297	7.8	19.2	6 30	17 26.86	-39 25.5	1.260	2.235	9.8	19.2
7 10	17 18.83	-45 9.8	2.385	3.282	9.8	19.3	7 10	17 16.64	-39 13.6	1.310	2.244	13.4	19.4
7 20	17 10.96	-44 47.9	2.439	3.266	12.0	19.4	7 20	17 9.94	-38 46.8	1.380	2.253	17.0	19.7
232887	2004 XE ₉		6 17.2 247°42'	1.2°/17.3	18		381704	2009 HT ₉₅		6 17.2 11°67'	2.9°/17.3	18	
5 11	18 11.54	-27 20.9	1.977	2.808	14.0	20.3	5 11	18 7.68	-14 2.6	2.044	2.873	13.7	20.6
5 21	18 6.69	-27 17.8	1.887	2.800	10.9	20.1	5 21	18 3.42	-14 8.6	1.964	2.873	10.7	20.4
5 31	17 59.38	-27 10.7	1.819	2.791	7.3	19.9	5 31	17 57.10	-14 21.6	1.907	2.874	7.4	20.2
6 10	17 50.29	-26 58.0	1.776	2.782	3.4	19.6	6 10	17 49.31	-14 41.8	1.874	2.875	4.2	20.0
6 20	17 40.34	-26 39.1	1.759	2.773	1.7	19.5	6 20	17 40.81	-15 8.8	1.868	2.876	3.1	20.0
6 30	17 30.65	-26 14.7	1.770	2.764	5.6	19.7	6 30	17 32.55	-15 41.6	1.890	2.878	5.9	20.1
7 10	17 22.30	-25 46.9	1.807	2.755	9.5	19.9	7 10	17 25.39	-16 19.0	1.937	2.879	9.3	20.3
7 20	17 16.08	-25 18.6	1.868	2.745	13.0	20.1	7 20	17 20.02	-16 59.8	2.008	2.881	12.4	20.6
357929	2005 WO ₁₄₆		6 17.2 248°58'	2.1°/17.1	18		207313	2005 GB ₉₄		6 17.2 265°98'	1.2°/17.2	18	
5 11	18 9.46	-28 31.1	2.501	3.322	11.7	21.1	5 11	18 10.21	-26 4.6	2.048	2.880	13.5	20.9
5 21	18 4.68	-29 4.7	2.408	3.315	9.1	20.9	5 21	18 5.64	-26 20.1	1.956	2.870	10.5	20.7
5 31	17 57.89	-29 36.2	2.339	3.307	6.2	20.7	5 31	17 58.72	-26 34.0	1.887	2.860	7.0	20.5
6 10	17 49.62	-30 3.5	2.297	3.300	3.3	20.5	6 10	17 50.05	-26 44.5	1.843	2.850	3.2	20.2
6 20	17 40.60	-30 24.3	2.282	3.292	2.4	20.4	6 20	17 40.50	-26 50.0	1.826	2.840	1.7	20.1
6 30	17 31.70	-30 37.8	2.295	3.284	5.0	20.6	6 30	17 31.13	-26 50.2	1.837	2.830	5.4	20.3
7 10	17 23.81	-30 44.5	2.336	3.276	8.0	20.8	7 10	17 22.98	-26 46.0	1.873	2.820	9.2	20.5
7 20	17 17.59	-30 45.9	2.401	3.267	10.9	21.0	7 20	17 16.84	-26 39.4	1.933	2.810	12.6	20.7
522769	2016 NP ₇₆		6 17.2 285°23'	3.2°/16.9	17		73025	2002 ER ₇₄		6 17.2 12°26'	2.0°/17.3	18	
5 11	18 8.65	-15 48.7	1.831	2.668	14.7	21.7	5 11	18 9.84	-26 52.2	1.173	2.040	19.3	18.6
5 21	18 4.44	-15 29.4	1.748	2.662	11.6	21.4	5 21	18 6.71	-27 8.1	1.110	2.042	15.0	18.3
5 31	17 57.90	-15 14.6	1.685	2.656	8.0	21.2	5 31	18 0.03	-27 21.0	1.064	2.044	10.1	18.0
6 10	17 49.67	-15 5.6	1.647	2.650	4.4	21.0	6 10	17 50.74	-27 27.6	1.040	2.048	4.7	17.7
6 20	17 40.61	-15 3.0	1.635	2.644	3.5	20.9	6 20	17 40.25	-27 25.7	1.038	2.052	2.6	17.6
6 30	17 31.78	-15 7.4	1.650	2.638	6.6	21.1	6 30	17 30.33	-27 15.5	1.059	2.057	7.6	17.9
7 10	17 24.21	-15 18.7	1.689	2.632	10.3	21.3	7 10	17 22.58	-26 59.6	1.102	2.062	12.7	18.2
7 20	17 18.65	-15 36.6	1.751	2.626	13.8	21.5	7 20	17 18.02	-26 41.8	1.165	2.069	17.2	18.5
508060	2015 BP ₅₃₇		6 17.2 108°03'	3.1°/17.1	17		509533	2007 YG ₇₀		6 17.2 88°36'	1.2°/17.2	17	
5 11	18 13.01	-29 24.6	1.925	2.753	14.4	21.4	5 11	18 8.66	-19 7.2	2.199	3.028	12.8	21.8
5 21	18 7.92	-30 10.6	1.850	2.760	11.3	21.2	5 21	18 4.00	-19 14.7	2.124	3.036	9.9	21.6
5 31	18 0.24	-30 53.7	1.798	2.766	7.8	21.0	5 31	17 57.37	-19 25.1	2.072	3.045	6.6	21.4
6 10	17 50.67	-31 30.1	1.771	2.773	4.3	20.8	6 10	17 49.39	-19 37.8	2.046	3.053	3.0	21.2
6 20	17 40.22	-31 56.7	1.771	2.779	3.3	20.8	6 20	17 40.80	-19 52.1	2.048	3.062	1.6	21.1
6 30	17 30.08	-32 12.1	1.797	2.785	6.2	21.0	6 30	17 32.49	-20 7.6	2.077	3.070	5.0	21.3
7 10	17 21.40	-32 17.4	1.850	2.791	9.7	21.2	7 10	17 25.30	-20 24.1	2.133	3.078	8.4	21.6
7 20	17 15.01	-32 15.2	1.925	2.797	12.9	21.4	7 20	17 19.85	-20 41.8	2.213	3.086	11.4	21.8
509145	2006 BY ₁₀₇		6 17.2 235°06'	2.7°/17.4	17		373570	2001 XP ₂₅₉		6 17.2 188°16'	0.4°/17.2	17	

EPHEMERIDES

6 17.2

6 17.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
73507	2002 <i>TN</i> ₂₂₀		6 17.2 106°99	4°0/18.1 18			341064	2007 <i>HU</i> ₃₃		6 17.2 321°98	3°6/16.6 17		
5 11	18 16.78	-37 35.1	2.521	3.315	12.4	19.2	5 11	18 6.27	-18 16.8	1.431	2.289	16.9	20.0
5 21	18 9.99	-37 40.3	2.456	3.339	9.9	19.1	5 21	18 3.42	-17 31.1	1.340	2.268	13.4	19.7
5 31	18 1.10	-37 35.6	2.415	3.363	7.2	19.0	5 31	17 57.70	-16 45.7	1.270	2.247	9.2	19.4
6 10	17 50.89	-37 18.8	2.400	3.386	4.9	18.9	6 10	17 49.77	-16 2.9	1.222	2.227	5.0	19.1
6 20	17 40.26	-36 49.1	2.413	3.408	4.1	18.8	6 20	17 40.65	-15 25.5	1.197	2.207	4.0	19.0
6 30	17 30.23	-36 7.7	2.454	3.430	5.6	19.0	6 30	17 31.69	-14 56.3	1.197	2.189	8.0	19.2
7 10	17 21.64	-35 17.8	2.524	3.452	8.1	19.2	7 10	17 24.23	-14 37.6	1.220	2.171	12.7	19.4
7 20	17 15.07	-34 23.6	2.618	3.473	10.5	19.4	7 20	17 19.26	-14 30.4	1.262	2.154	17.0	19.6
65260	2002 <i>GE</i> ₂		6 17.2 323°09	4°4/17.2 18			502004	2015 <i>AB</i> ₃₈		6 17.2 197°78	2°1/17.4 17		
5 11	18 6.63	-14 31.6	1.223	2.087	18.9	19.2	5 11	18 14.22	-28 49.1	1.780	2.612	15.3	21.9
5 21	18 4.12	-14 17.1	1.141	2.070	15.1	18.9	5 21	18 9.03	-28 57.7	1.698	2.611	12.0	21.7
5 31	17 58.39	-14 11.8	1.077	2.054	10.6	18.6	5 31	18 1.07	-29 1.5	1.638	2.609	8.1	21.4
6 10	17 50.13	-14 17.8	1.034	2.038	6.1	18.3	6 10	17 51.10	-28 58.0	1.601	2.606	4.0	21.2
6 20	17 40.46	-14 35.9	1.014	2.023	4.7	18.2	6 20	17 40.18	-28 45.6	1.591	2.604	2.4	21.1
6 30	17 30.91	-15 5.8	1.016	2.009	8.7	18.3	6 30	17 29.62	-28 24.7	1.608	2.601	6.2	21.3
7 10	17 23.05	-15 46.2	1.040	1.996	13.7	18.6	7 10	17 20.65	-27 58.1	1.651	2.598	10.2	21.5
7 20	17 18.02	-16 34.6	1.082	1.984	18.4	18.8	7 20	17 14.13	-27 29.0	1.716	2.594	13.9	21.7
66482	1999 <i>RW</i> ₃₇		6 17.2 222°08	6°1/16.4 18			35033	1981 <i>EA</i> ₂₇		6 17.2 145°20	0°0/17.2 18		
5 11	18 8.71	-7 14.1	2.246	3.052	13.3	19.6	5 11	18 9.03	-23 13.0	2.795	3.613	10.7	20.8
5 21	18 4.00	-6 26.6	2.158	3.044	11.0	19.4	5 21	18 3.89	-23 16.5	2.715	3.622	8.2	20.6
5 31	17 57.39	-5 47.0	2.093	3.036	8.5	19.2	5 31	17 57.13	-23 19.4	2.660	3.631	5.4	20.5
6 10	17 49.43	-5 18.2	2.053	3.028	6.5	19.1	6 10	17 49.26	-23 21.2	2.632	3.639	2.3	20.3
6 20	17 40.80	-5 2.4	2.039	3.019	6.2	19.0	6 20	17 40.93	-23 21.3	2.632	3.647	0.9	20.2
6 30	17 32.35	-5 0.7	2.051	3.009	7.9	19.1	6 30	17 32.83	-23 19.9	2.662	3.655	4.0	20.4
7 10	17 24.88	-5 12.9	2.090	3.000	10.4	19.2	7 10	17 25.66	-23 17.6	2.720	3.662	6.9	20.6
7 20	17 19.02	-5 37.5	2.150	2.989	13.0	19.4	7 20	17 19.93	-23 15.2	2.803	3.669	9.5	20.8
367753	2010 <i>VF</i> ₁₇₀		6 17.2 296°21	3°0/17.0 17			287962	2003 <i>UZ</i> ₁₂₀		6 17.2 177°31	2°2/17.1 17		
5 11	18 12.01	-27 2.1	1.438	2.288	17.3	20.9	5 11	18 12.67	-18 31.5	1.692	2.529	15.7	21.0
5 21	18 8.30	-27 51.1	1.348	2.271	13.7	20.6	5 21	18 7.71	-18 17.7	1.615	2.530	12.3	20.8
5 31	18 1.22	-28 41.3	1.277	2.253	9.4	20.3	5 31	18 0.14	-18 6.7	1.558	2.531	8.2	20.6
6 10	17 51.39	-29 28.0	1.230	2.235	4.8	20.0	6 10	17 50.68	-17 58.9	1.526	2.532	4.0	20.3
6 20	17 39.95	-30 6.4	1.206	2.218	3.4	19.9	6 20	17 40.35	-17 54.6	1.519	2.532	2.6	20.2
6 30	17 28.51	-30 33.2	1.208	2.200	7.7	20.1	6 30	17 30.37	-17 54.1	1.540	2.532	6.5	20.4
7 10	17 18.76	-30 48.5	1.232	2.183	12.6	20.3	7 10	17 21.87	-17 58.0	1.585	2.531	10.7	20.7
7 20	17 11.94	-30 55.0	1.277	2.167	17.0	20.5	7 20	17 15.67	-18 6.8	1.653	2.530	14.4	20.9
411641	2011 <i>UB</i> ₂₆₉		6 17.2 213°70	1°8/17.3 16			183625	2003 <i>UZ</i> ₂₆₃		6 17.2 206°50	2°0/17.4 17		
5 11	18 16.38	-27 3.4	1.730	2.561	15.7	22.3	5 11	18 15.73	-28 39.6	1.995	2.817	14.2	21.6
5 21	18 10.88	-27 21.2	1.642	2.554	12.3	22.0	5 21	18 9.97	-28 50.1	1.905	2.812	11.1	21.3
5 31	18 2.42	-27 36.6	1.575	2.547	8.3	21.8	5 31	18 1.61	-28 56.4	1.836	2.805	7.5	21.1
6 10	17 51.72	-27 46.4	1.532	2.539	3.9	21.5	6 10	17 51.32	-28 56.0	1.794	2.798	3.7	20.9
6 20	17 39.87	-27 48.5	1.516	2.530	2.2	21.4	6 20	17 40.10	-28 47.2	1.778	2.791	2.3	20.7
6 30	17 28.27	-27 42.3	1.527	2.520	6.4	21.6	6 30	17 29.13	-28 30.1	1.791	2.782	5.8	20.9
7 10	17 18.25	-27 29.7	1.564	2.510	10.8	21.8	7 10	17 19.59	-28 6.9	1.830	2.773	9.7	21.2
7 20	17 10.80	-27 13.8	1.623	2.499	14.7	22.1	7 20	17 12.31	-27 40.7	1.893	2.763	13.2	21.4
39494	1981 <i>EM</i> ₁₁		6 17.2 142°87	2°7/17.5 18			377755	2005 <i>YG</i> ₂₅		6 17.2 164°68	0°5/17.2 17		
5 11	18 15.75	-30 12.1	1.572	2.409	16.7	19.2	5 11	18 12.82	-25 16.5	2.262	3.084	12.8	23.1
5 21	18 10.46	-30 16.4	1.499	2.413	13.1	19.0	5 21	18 7.22	-25 14.5	2.181	3.089	9.9	22.9
5 31	18 2.09	-30 13.9	1.447	2.418	8.9	18.7	5 31	17 59.51	-25 10.3	2.122	3.094	6.5	22.7
6 10	17 51.52	-30 1.5	1.417	2.422	4.6	18.5	6 10	17 50.34	-25 2.8	2.090	3.098	2.8	22.5
6 20	17 39.99	-29 37.8	1.414	2.426	2.9	18.4	6 20	17 40.53	-24 51.4	2.087	3.101	1.2	22.3
6 30	17 29.02	-29 4.2	1.436	2.429	6.7	18.6	6 30	17 31.05	-24 36.8	2.111	3.104	4.9	22.6
7 10	17 19.95	-28 24.2	1.484	2.432	11.0	18.9	7 10	17 22.78	-24 20.3	2.163	3.107	8.4	22.8
7 20	17 13.65	-27 42.7	1.553	2.435	14.9	19.1	7 20	17 16.38	-24 4.0	2.240	3.109	11.5	23.0
216763	2005 <i>SW</i> ₁₆₀		6 17.2 320°14	5°6/16.4 16			20162	1996 <i>UD</i>		6 17.2 221°97	2°6/17.2 18		
5 11	18 5.99	-9 30.2	2.085	2.907	13.7	20.9	5 11	18 15.56	-28 17.4	1.849	2.676	15.0	18.6
5 21	18 2.05	-8 42.7	2.003	2.902	11.1	20.7	5 21	18 10.18	-28 51.1	1.758	2.668	11.8	18.4
5 31	17 56.17	-8 2.3	1.943	2.896	8.3	20.5	5 31	18 1.96	-29 22.6	1.689	2.659	8.0	18.1
6 10	17 48.92	-7 31.7	1.907	2.891	6.1	20.4	6 10	17 51.56	-29 48.4	1.645	2.649	4.2	17.9
6 20	17 41.02	-7 13.2	1.897	2.886	5.8	20.4	6 20	17 40.01	-30 5.3	1.628	2.639	2.9	17.8
6 30	17 33.34	-7 8.0	1.913	2.880	7.6	20.5	6 30	17 28.63	-30 12.1	1.638	2.628	6.4	18.0
7 10	17 26.70	-7 16.0	1.954	2.876	10.4	20.6	7 10	17 18.70	-30 9.8	1.674	2.617	10.4	18.2
7 20	17 21.73	-7 36.0	2.017	2.871	13.1	20.8	7 20	17 11.21	-30 1.4	1.732	2.605	14.1	18.4
55350	2001 <i>SK</i> ₁₄₇		6 17.2 245°55	0°7/17.1 18			369247	2008 <i>YM</i> ₄₆		6 17.2 110°69	0°6/17.2 17		
5 11	18 8.75	-21 39.2	2.302	3.131	12.4	19.2	5 11	18 14.97	-20 16.8	1.477	2.319	17.3	20.6
5 21	18 4.14	-21 34.1	2.210	3.122	9.6	19.0	5 21	18 9.84	-20 42.0	1.411	2.330	13.4	20.4
5 31	17 57.55	-21 29.1	2.140	3.113	6.3	18.8	5 31	18 1.71	-21 11.6	1.365	2.340	8.8	20.1
6 10	17 49.51	-21 24.1	2.097	3.105	2.8	18.6	6 10	17 51.40	-21 43.3	1.342	2.350	3.8	19.8
6 20	17 40.78	-21 18.9	2.081	3.095	1.3	18.4	6 20	17 40.13	-22 14.6	1.345	2.360	1.6	19.7
6 30	17 32.23	-21 13.6	2.093	3.086	4.9	18.7	6 30	17 29.32	-22 43.8	1.374	2.370	6.6	20.1
7 10	17 24.70	-21 9.2	2.132	3.077	8.4	18.9	7 10	17 20.30	-23 10.6	1.428	2.379	11.2	20.3
7 20	17 18.88	-21 6.5	2.195	3.067	11.5	19.0	7 20	17 13.98	-23 35.5	1.503	2.388	15.2	20.6
225789	2001 <i>UJ</i> ₁₀₇		6 17.2 179°08	5°6/16.4 17			374476	2005 <i>YX</i> ₃₄					

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6 17.2

6 17.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
504041	2005 <i>UL</i> ₄₀₅		6 17.2 264°24		5°5/15.9 17		93110	2000 <i>SA</i> ₅₄		6 17.2 208°87		1°7/17.0 18	
5 11	18 10.28	-13 13.3	1.814	2.644	15.1	21.7	5 11	18 11.21	-19 15.7	2.232	3.055	12.9	21.2
5 21	18 5.74	-12 1.4	1.724	2.631	12.1	21.5	5 21	18 6.05	-19 0.6	2.141	3.049	10.0	21.0
5 31	17 58.82	-10 51.9	1.656	2.617	8.9	21.3	5 31	17 58.83	-18 46.7	2.073	3.043	6.7	20.8
6 10	17 50.15	-9 48.7	1.612	2.604	6.1	21.1	6 10	17 50.12	-18 34.4	2.031	3.037	3.2	20.6
6 20	17 40.62	-8 55.4	1.595	2.590	5.8	21.0	6 20	17 40.69	-18 23.9	2.017	3.029	2.0	20.5
6 30	17 31.30	-8 15.5	1.604	2.576	8.4	21.2	6 30	17 31.47	-18 15.7	2.031	3.021	5.3	20.7
7 10	17 23.24	-7 50.6	1.637	2.562	11.8	21.3	7 10	17 23.34	-18 10.8	2.072	3.013	8.8	20.9
7 20	17 17.22	-7 41.0	1.692	2.548	15.2	21.5	7 20	17 16.98	-18 9.8	2.137	3.004	12.0	21.1
253469	2003 <i>SV</i> ₃₃		6 17.2 321°11		6°5/17.2 17		302154	2001 <i>SQ</i> ₂₂₉		6 17.2 283°37		3°4/17.2 17	
5 11	18 11.54	-34 10.0	1.262	2.115	19.0	20.0	5 11	18 14.57	-28 51.3	1.357	2.206	18.2	20.4
5 21	18 8.54	-35 5.2	1.182	2.102	15.4	19.7	5 21	18 10.25	-29 31.5	1.284	2.205	14.3	20.2
5 31	18 1.66	-35 53.3	1.122	2.089	11.4	19.4	5 31	18 2.40	-30 8.8	1.230	2.204	9.8	19.9
6 10	17 51.67	-36 27.4	1.081	2.077	7.6	19.2	6 10	17 51.87	-30 38.3	1.198	2.203	5.3	19.6
6 20	17 39.98	-36 41.2	1.064	2.065	6.7	19.1	6 20	17 40.00	-30 55.7	1.191	2.201	3.8	19.5
6 30	17 28.53	-36 32.4	1.069	2.054	9.7	19.2	6 30	17 28.52	-30 59.5	1.208	2.200	7.8	19.8
7 10	17 19.27	-36 4.2	1.095	2.044	14.0	19.4	7 10	17 19.07	-30 51.9	1.248	2.199	12.5	20.0
7 20	17 13.52	-35 23.4	1.141	2.035	18.3	19.7	7 20	17 12.76	-30 37.1	1.308	2.198	16.7	20.3
480427	2015 <i>KR</i> ₁₂₂		6 17.2 314°41		1°0/17.3 16		102796	1999 <i>VB</i> ₁₆₃		6 17.2 248°65		0°7/17.3 18	
5 11	18 9.36	-25 47.3	1.876	2.715	14.3	21.3	5 11	18 11.59	-25 19.2	2.210	3.035	12.9	21.1
5 21	18 5.15	-25 55.0	1.791	2.709	11.1	21.1	5 21	18 6.60	-25 24.4	2.109	3.019	10.1	20.9
5 31	17 58.49	-26 0.8	1.728	2.702	7.4	20.9	5 31	17 59.35	-25 27.9	2.031	3.003	6.7	20.6
6 10	17 50.02	-26 3.1	1.689	2.696	3.3	20.6	6 10	17 50.41	-25 28.2	1.978	2.986	3.0	20.4
6 20	17 40.68	-26 0.6	1.676	2.690	1.6	20.5	6 20	17 40.59	-25 24.5	1.954	2.969	1.3	20.2
6 30	17 31.60	-25 53.5	1.690	2.685	5.6	20.7	6 30	17 30.87	-25 16.7	1.957	2.951	5.2	20.4
7 10	17 23.84	-25 43.2	1.729	2.679	9.6	21.0	7 10	17 22.27	-25 5.9	1.988	2.933	8.9	20.6
7 20	17 18.23	-25 31.7	1.791	2.674	13.2	21.2	7 20	17 15.55	-24 54.1	2.042	2.914	12.3	20.8
386428	2008 <i>VW</i> ₁₈		6 17.2 272°58		0°1/17.2 17		429522	2011 <i>BU</i> ₆₃		6 17.2 69°65		6°1/17.5 17	
5 11	18 10.29	-22 51.3	1.872	2.709	14.4	21.5	5 11	18 9.87	-7 52.6	1.691	2.514	16.3	20.8
5 21	18 5.89	-23 2.7	1.783	2.700	11.2	21.3	5 21	18 5.48	-7 39.2	1.617	2.516	13.2	20.6
5 31	17 59.00	-23 14.8	1.716	2.691	7.4	21.1	5 31	17 58.67	-7 38.6	1.563	2.518	9.9	20.4
6 10	17 50.26	-23 26.4	1.674	2.682	3.2	20.8	6 10	17 50.11	-7 52.8	1.533	2.520	7.0	20.3
6 20	17 40.58	-23 36.2	1.658	2.673	1.3	20.6	6 20	17 40.73	-8 22.4	1.528	2.522	6.2	20.2
6 30	17 31.08	-23 43.6	1.669	2.664	5.7	20.9	6 30	17 31.64	-9 6.3	1.548	2.524	8.3	20.3
7 10	17 22.87	-23 49.3	1.705	2.654	9.8	21.1	7 10	17 23.90	-10 2.1	1.593	2.526	11.6	20.5
7 20	17 16.79	-23 54.4	1.764	2.645	13.5	21.3	7 20	17 18.27	-11 6.3	1.660	2.528	14.8	20.7
511646	2015 <i>BR</i> ₂₄₉		6 17.2 210°80		1°9/17.1 17		7744	1986 <i>QA</i> ₁		6 17.2 88°36		1°2/17.2 18	
5 11	18 11.84	-18 21.9	1.851	2.683	14.8	21.6	5 11	18 11.45	-25 34.2	1.813	2.650	14.8	17.8
5 21	18 6.96	-18 18.1	1.766	2.679	11.5	21.4	5 21	18 6.78	-25 51.8	1.737	2.653	11.5	17.6
5 31	17 59.63	-18 17.7	1.703	2.675	7.7	21.1	5 31	17 59.55	-26 8.1	1.682	2.657	7.6	17.4
6 10	17 50.51	-18 20.7	1.665	2.671	3.7	20.9	6 10	17 50.49	-26 21.0	1.653	2.660	3.4	17.1
6 20	17 40.50	-18 26.7	1.653	2.666	2.3	20.8	6 20	17 40.59	-26 28.8	1.649	2.663	1.7	17.0
6 30	17 30.73	-18 35.6	1.668	2.660	6.1	21.0	6 30	17 31.03	-26 31.1	1.672	2.667	5.7	17.3
7 10	17 22.27	-18 47.7	1.709	2.654	10.1	21.2	7 10	17 22.92	-26 29.1	1.721	2.670	9.8	17.5
7 20	17 15.92	-19 3.0	1.773	2.648	13.7	21.4	7 20	17 17.06	-26 24.7	1.792	2.673	13.3	17.8
131497	2001 <i>SQ</i> ₂₄₈		6 17.2 236°39		3°3/16.9 17		393834	2005 <i>SJ</i> ₉₂		6 17.2 332°26		0°3/17.2 15	
5 11	18 13.44	-16 28.9	1.673	2.506	16.0	21.2	5 11	18 6.17	-22 59.8	1.723	2.573	14.9	21.1
5 21	18 8.53	-16 3.1	1.582	2.494	12.7	20.9	5 21	18 2.93	-22 55.1	1.634	2.558	11.6	20.8
5 31	18 0.86	-15 41.1	1.511	2.481	8.7	20.7	5 31	17 57.18	-22 50.0	1.565	2.543	7.7	20.5
6 10	17 51.11	-15 23.9	1.465	2.468	4.8	20.4	6 10	17 49.54	-22 43.9	1.520	2.529	3.3	20.3
6 20	17 40.25	-15 12.6	1.445	2.454	3.7	20.3	6 20	17 40.95	-22 36.6	1.501	2.516	1.3	20.1
6 30	17 29.56	-15 8.4	1.451	2.439	7.3	20.5	6 30	17 32.53	-22 28.4	1.507	2.504	5.9	20.4
7 10	17 20.27	-15 11.8	1.481	2.423	11.6	20.7	7 10	17 25.44	-22 20.6	1.538	2.492	10.3	20.6
7 20	17 13.33	-15 23.1	1.534	2.407	15.6	20.9	7 20	17 20.52	-22 14.6	1.590	2.481	14.1	20.8
125417	2001 <i>VT</i> ₁₁₀		6 17.2 154°51		3°1/17.2 17		253672	2003 <i>UW</i> ₂₀₂		6 17.2 253°17		1°4/17.3 17	
5 11	18 16.23	-28 54.9	1.535	2.373	17.0	20.3	5 11	18 14.56	-26 34.6	1.770	2.603	15.3	22.0
5 21	18 11.06	-29 31.0	1.462	2.377	13.3	20.1	5 21	18 9.57	-26 45.4	1.671	2.585	12.0	21.7
5 31	18 2.67	-30 3.7	1.409	2.380	9.1	19.8	5 31	18 1.68	-26 53.7	1.594	2.566	8.1	21.4
6 10	17 51.89	-30 28.6	1.380	2.383	4.8	19.6	6 10	17 51.54	-26 57.2	1.541	2.547	3.8	21.1
6 20	17 39.97	-30 42.3	1.376	2.386	3.4	19.5	6 20	17 40.16	-26 53.9	1.514	2.528	1.9	20.9
6 30	17 28.49	-30 43.7	1.398	2.389	7.1	19.7	6 30	17 28.86	-26 43.4	1.514	2.508	6.3	21.2
7 10	17 18.88	-30 35.0	1.444	2.391	11.4	20.0	7 10	17 19.00	-26 27.6	1.540	2.487	10.8	21.4
7 20	17 12.15	-30 20.0	1.512	2.393	15.3	20.2	7 20	17 11.59	-26 9.5	1.588	2.466	14.8	21.6
84917	2003 <i>UX</i> ₂₅₉		6 17.2 252°19		0°9/17.2 18		204539	2005 <i>EW</i> ₁₄₆		6 17.2 259°53		1°1/17.1 17	
5 11	18 13.42	-20 51.3	1.826	2.658	14.9	20.3	5 11	18 9.24	-20 29.1	1.993	2.828	13.8	20.9
5 21	18 8.48	-20 54.0	1.726	2.639	11.7	20.0	5 21	18 4.78	-20 25.2	1.911	2.827	10.7	20.7
5 31	18 0.85	-20 58.5	1.647	2.620	7.8	19.7	5 31	17 58.11	-20 22.8	1.852	2.826	7.1	20.5
6 10	17 51.13	-21 4.1	1.592	2.600	3.5	19.4	6 10	17 49.85	-20 21.6	1.818	2.825	3.2	20.3
6 20	17 40.24	-21 9.9	1.565	2.580	1.6	19.2	6 20	17 40.86	-20 21.3	1.810	2.824	1.6	20.2
6 30	17 29.38	-21 15.5	1.565	2.558	6.2	19.5	6 30	17 32.13	-20 22.2	1.830	2.823	5.4	20.4
7 10	17 19.80	-21 21.4	1.590	2.537	10.6	19.7	7 10	17 24.62	-20 24.7	1.875	2.823	9.2	20.6
7 20	17 12.45	-21 28.9	1.638	2.514	14.6	19.9	7 20	17 19.04	-20 29.6	1.944	2.822	12.6	20.8
200396	2000 <i>RJ</i> ₆₄		6 17.2 241°44		3°0/16.6 18		504858						

EPHEMERIDES

6 17.2

6 17.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
34657	2000 <i>WG</i> ₁₅₄		6 17.2 343°55	5°5/17.6	18		102577	1999 <i>UE</i> ₄₃		6 17.2 299°00	4°2/17.5	18	
5 11	18 11.65	-37 44.4	2.096	2.910	13.9	18.6	5 11	18 12.55	-32 8.9	1.427	2.273	17.6	19.4
5 21	18 6.99	-38 24.0	2.015	2.907	11.3	18.4	5 21	18 8.84	-32 29.6	1.337	2.255	14.1	19.1
5 31	17 59.74	-38 54.8	1.956	2.905	8.6	18.3	5 31	18 1.63	-32 43.0	1.267	2.237	10.0	18.8
6 10	17 50.60	-39 12.5	1.921	2.903	6.2	18.1	6 10	17 51.67	-32 44.3	1.218	2.219	5.8	18.5
6 20	17 40.56	-39 14.4	1.911	2.901	5.6	18.1	6 20	17 40.21	-32 30.1	1.194	2.202	4.4	18.4
6 30	17 30.83	-38 59.7	1.928	2.900	7.3	18.2	6 30	17 28.94	-32 0.0	1.193	2.185	8.0	18.5
7 10	17 22.56	-38 31.2	1.970	2.898	9.9	18.3	7 10	17 19.56	-31 17.8	1.216	2.168	12.6	18.8
7 20	17 16.56	-37 52.8	2.035	2.897	12.7	18.5	7 20	17 13.26	-30 29.4	1.259	2.151	17.0	19.0
126253	2002 <i>AG</i> ₇₀		6 17.2 204°39	0°6/17.2	18		158514	2002 <i>EZ</i> ₁₁₆		6 17.2 271°66	0°3/17.2	18	
5 11	18 12.07	-24 18.9	1.871	2.705	14.5	20.2	5 11	18 10.58	-22 17.9	1.843	2.681	14.6	20.7
5 21	18 7.22	-24 33.1	1.789	2.704	11.3	20.0	5 21	18 6.20	-22 24.4	1.752	2.669	11.4	20.4
5 31	17 59.86	-24 46.9	1.728	2.702	7.5	19.8	5 31	17 59.30	-22 32.0	1.682	2.657	7.5	20.2
6 10	17 50.65	-24 58.5	1.691	2.699	3.3	19.5	6 10	17 50.49	-22 39.4	1.636	2.645	3.3	19.9
6 20	17 40.55	-25 6.4	1.682	2.697	1.4	19.4	6 20	17 40.70	-22 45.6	1.617	2.632	1.3	19.7
6 30	17 30.71	-25 10.2	1.700	2.694	5.7	19.7	6 30	17 31.05	-22 50.4	1.625	2.620	5.8	20.0
7 10	17 22.25	-25 10.9	1.743	2.691	9.7	19.9	7 10	17 22.70	-22 54.3	1.658	2.608	10.0	20.2
7 20	17 15.98	-25 10.0	1.809	2.688	13.3	20.1	7 20	17 16.49	-22 58.5	1.714	2.596	13.8	20.4
44600	1999 <i>RU</i> ₁₀		6 17.2 81°90	18°8/22.5	18 R		440352	2004 <i>TC</i> ₂₉₈		6 17.2 266°30	1°1/17.0	18	
5 11	18 37.23	-58 57.8	1.124	1.892	26.0	17.5	5 11	18 8.15	-21 51.7	2.551	3.375	11.4	20.9
5 21	18 31.71	-60 30.2	1.075	1.899	23.8	17.4	5 21	18 3.53	-21 22.3	2.451	3.361	8.9	20.7
5 31	18 18.38	-61 30.2	1.039	1.906	21.5	17.2	5 31	17 57.12	-20 51.3	2.375	3.346	5.9	20.5
6 10	17 59.00	-61 40.4	1.017	1.913	19.7	17.1	6 10	17 49.44	-20 19.3	2.325	3.332	2.7	20.2
6 20	17 37.43	-60 48.9	1.012	1.920	18.8	17.1	6 20	17 41.14	-19 46.9	2.303	3.317	1.5	20.1
6 30	17 18.47	-58 56.4	1.024	1.927	19.1	17.1	6 30	17 33.00	-19 15.7	2.310	3.302	4.7	20.3
7 10	17 5.45	-56 18.5	1.054	1.934	20.5	17.3	7 10	17 25.79	-18 47.0	2.345	3.287	7.9	20.5
7 20	16 59.27	-53 15.5	1.101	1.941	22.6	17.4	7 20	17 20.10	-18 22.4	2.404	3.271	10.8	20.7
369496	2010 <i>UK</i> ₁₀₁		6 17.2 201°86	0°9/17.3	17		49001	1998 <i>QZ</i> ₅₄		6 17.2 162°16	3°3/17.5	18	
5 11	18 14.41	-25 24.9	1.951	2.778	14.3	22.4	5 11	18 15.68	-31 43.7	1.872	2.696	15.0	18.8
5 21	18 8.96	-25 34.1	1.864	2.775	11.1	22.2	5 21	18 10.10	-32 0.9	1.794	2.700	11.8	18.6
5 31	18 0.98	-25 41.7	1.798	2.770	7.4	21.9	5 31	18 1.78	-32 11.6	1.738	2.703	8.2	18.4
6 10	17 51.13	-25 45.7	1.758	2.765	3.3	21.7	6 10	17 51.50	-32 12.4	1.706	2.707	4.6	18.2
6 20	17 40.37	-25 44.7	1.745	2.760	1.5	21.5	6 20	17 40.36	-32 1.4	1.701	2.709	3.4	18.2
6 30	17 29.86	-25 38.7	1.760	2.754	5.6	21.8	6 30	17 29.63	-31 39.0	1.724	2.712	6.3	18.3
7 10	17 20.73	-25 29.2	1.802	2.747	9.6	22.0	7 10	17 20.53	-31 8.0	1.771	2.714	10.0	18.6
7 20	17 13.79	-25 18.3	1.866	2.740	13.2	22.2	7 20	17 13.87	-30 32.5	1.842	2.715	13.4	18.8
504704	2009 <i>RZ</i> ₂₁		6 17.2 207°78	1°2/17.1	17		247143	2000 <i>WQ</i> ₁₉₀		6 17.2 243°85	1°2/17.2	18	
5 11	18 12.66	-21 10.9	2.054	2.881	13.7	21.8	5 11	18 13.69	-19 43.5	1.751	2.584	15.4	21.3
5 21	18 7.37	-20 52.0	1.965	2.876	10.7	21.6	5 21	18 8.78	-19 49.1	1.656	2.570	12.1	21.1
5 31	17 59.80	-20 32.9	1.898	2.870	7.1	21.4	5 31	18 1.12	-19 58.0	1.582	2.555	8.1	20.8
6 10	17 50.59	-20 13.5	1.857	2.864	3.2	21.1	6 10	17 51.33	-20 9.4	1.532	2.539	3.7	20.5
6 20	17 40.60	-19 54.2	1.843	2.857	1.7	21.0	6 20	17 40.37	-20 22.3	1.509	2.523	1.8	20.3
6 30	17 30.86	-19 36.0	1.858	2.850	5.5	21.3	6 30	17 29.50	-20 36.2	1.513	2.506	6.3	20.6
7 10	17 22.35	-19 20.4	1.898	2.842	9.4	21.5	7 10	17 19.96	-20 51.0	1.542	2.489	10.8	20.8
7 20	17 15.81	-19 8.6	1.963	2.833	12.8	21.7	7 20	17 12.73	-21 7.3	1.594	2.471	14.8	21.0
465548	2008 <i>VG</i> ₄₀		6 17.2 193°32	3°9/17.5	17		152852	1999 <i>VU</i> ₁₉₈		6 17.2 177°77	4°9/16.6	18	
5 11	18 17.73	-31 46.8	1.592	2.422	16.8	22.1	5 11	18 5.86	-5 37.4	3.109	3.898	10.4	21.0
5 21	18 12.27	-32 13.7	1.512	2.421	13.4	21.9	5 21	18 1.30	-5 0.8	3.026	3.899	8.5	20.8
5 31	18 3.52	-32 34.0	1.453	2.420	9.4	21.7	5 31	17 55.42	-4 31.3	2.967	3.900	6.7	20.7
6 10	17 52.32	-32 43.3	1.417	2.418	5.4	21.4	6 10	17 48.65	-4 10.8	2.935	3.901	5.3	20.6
6 20	17 39.93	-32 38.2	1.407	2.415	4.1	21.3	6 20	17 41.48	-4 0.4	2.930	3.902	5.0	20.6
6 30	17 27.95	-32 18.5	1.423	2.412	7.4	21.5	6 30	17 34.47	-4 0.7	2.953	3.901	6.2	20.7
7 10	17 17.88	-31 47.6	1.464	2.408	11.5	21.7	7 10	17 28.16	-4 11.4	3.002	3.901	8.0	20.8
7 20	17 10.73	-31 10.6	1.526	2.404	15.4	22.0	7 20	17 22.99	-4 31.5	3.076	3.900	9.8	20.9
176602	2002 <i>DS</i> ₉		6 17.2 51°98	0°0/17.2	17		238185	2003 <i>SJ</i> ₂₅₈		6 17.2 239°98	2°1/17.0	16	
5 11	18 10.78	-20 11.3	2.017	2.848	13.8	19.1	5 11	18 9.72	-18 12.6	2.127	2.955	13.2	21.0
5 21	18 5.89	-20 59.7	1.950	2.863	10.6	18.9	5 21	18 5.07	-17 54.0	2.036	2.946	10.3	20.8
5 31	17 58.80	-21 52.1	1.905	2.879	6.9	18.7	5 31	17 58.30	-17 37.5	1.966	2.937	7.0	20.5
6 10	17 50.16	-22 46.2	1.887	2.895	3.0	18.5	6 10	17 50.00	-17 23.6	1.923	2.927	3.5	20.3
6 20	17 40.82	-23 39.0	1.896	2.911	1.1	18.4	6 20	17 40.94	-17 12.8	1.906	2.918	2.4	20.2
6 30	17 31.78	-24 28.5	1.933	2.927	5.1	18.7	6 30	17 32.06	-17 5.9	1.918	2.907	5.6	20.4
7 10	17 24.00	-25 13.3	1.997	2.944	8.8	18.9	7 10	17 24.28	-17 3.4	1.955	2.897	9.2	20.6
7 20	17 18.16	-25 53.6	2.085	2.961	11.9	19.2	7 20	17 18.29	-17 6.0	2.016	2.886	12.5	20.8
152857	1999 <i>XD</i> ₂₇		6 17.2 297°14	0°8/17.2	18		9370	1993 <i>FC</i> ₂₂		6 17.2 330°47	1°3/17.2	18	
5 11	18 7.78	-21 14.0	2.191	3.024	12.8	20.0	5 11	18 8.09	-21 11.1	1.326	2.188	17.8	17.8
5 21	18 3.72	-21 11.3	2.084	2.999	10.0	19.7	5 21	18 5.09	-21 0.5	1.247	2.177	13.9	17.6
5 31	17 57.51	-21 9.6	2.000	2.974	6.6	19.5	5 31	17 58.97	-20 51.2	1.186	2.166	9.3	17.3
6 10	17 49.69	-21 8.4	1.941	2.949	2.9	19.2	6 10	17 50.47	-20 43.2	1.148	2.157	4.2	16.9
6 20	17 40.98	-21 7.3	1.909	2.924	1.4	19.0	6 20	17 40.75	-20 36.3	1.133	2.148	2.1	16.8
6 30	17 32.30	-21 6.6	1.905	2.899	5.2	19.2	6 30	17 31.30	-20 31.2	1.142	2.139	7.2	17.1
7 10	17 24.59	-21 6.9	1.927	2.874	9.0	19.4	7 10	17 23.57	-20 29.2	1.173	2.132	12.3	17.3
7 20	17 18.63	-21 8.9	1.972	2.849	12.4	19.6	7 20	17 18.59	-20 31.4	1.225	2.125	16.8	17.6
270207	2001 <i>TB</i> ₉₂		6 17.2 161°56	7°0/17.4	17		438057						

EPHEMERIDES

6 17.2

6 17.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
330244	2006 <i>QB</i> ₉₄		6 17.2 333°11	2°8/17.2 17			504889	2010 <i>WR</i> ₃₁		6 17.2 283°19	0°3/17.2 17		
5 11	18 7.53	-17 31.9	1.227	2.092	18.7	20.6	5 11	18 11.91	-22 56.5	1.546	2.392	16.5	21.8
5 21	18 4.85	-17 27.2	1.150	2.081	14.7	20.3	5 21	18 7.90	-22 54.0	1.449	2.370	13.0	21.5
5 31	17 58.92	-17 29.0	1.092	2.071	10.0	20.0	5 31	18 0.82	-22 51.4	1.371	2.348	8.7	21.2
6 10	17 50.50	-17 37.9	1.054	2.061	5.0	19.7	6 10	17 51.33	-22 47.5	1.317	2.326	3.8	20.9
6 20	17 40.75	-17 53.8	1.040	2.053	3.2	19.6	6 20	17 40.45	-22 41.4	1.288	2.303	1.5	20.7
6 30	17 31.23	-18 16.0	1.048	2.045	7.9	19.8	6 30	17 29.60	-22 33.3	1.284	2.281	6.8	20.9
7 10	17 23.49	-18 43.8	1.079	2.038	13.1	20.1	7 10	17 20.25	-22 24.8	1.305	2.258	11.8	21.2
7 20	17 18.61	-19 16.1	1.128	2.032	17.7	20.3	7 20	17 13.49	-22 17.9	1.346	2.235	16.3	21.4
301058	2008 <i>UX</i> ₆₁		6 17.2 325°85	5°5/17.2 17			338644	2003 <i>SC</i> ₃₀₈		6 17.2 225°45	0°0/17.2 18		
5 11	18 9.66	-31 0.7	1.073	1.943	20.4	20.3	5 11	18 11.97	-24 36.4	2.526	3.343	11.7	21.5
5 21	18 7.56	-31 53.9	0.997	1.929	16.4	20.0	5 21	18 6.54	-24 21.9	2.425	3.331	9.1	21.3
5 31	18 1.34	-32 43.4	0.939	1.915	11.7	19.7	5 31	17 59.15	-24 4.9	2.348	3.319	6.0	21.1
6 10	17 51.74	-33 22.1	0.900	1.902	7.1	19.4	6 10	17 50.36	-23 44.9	2.298	3.305	2.6	20.9
6 20	17 40.23	-33 43.6	0.882	1.890	5.8	19.3	6 20	17 40.88	-23 21.8	2.276	3.291	1.0	20.7
6 30	17 28.92	-33 44.7	0.886	1.879	9.7	19.4	6 30	17 31.58	-22 56.6	2.284	3.277	4.6	21.0
7 10	17 19.96	-33 28.1	0.910	1.869	14.9	19.7	7 10	17 23.27	-22 30.7	2.319	3.261	8.0	21.2
7 20	17 14.79	-32 59.9	0.951	1.859	19.8	19.9	7 20	17 16.62	-22 6.2	2.380	3.245	11.0	21.3
204132	2003 <i>YO</i> ₉		6 17.2 167°49	4°8/17.4 18			507248	2011 <i>BP</i> ₉₄		6 17.2 258°00	3°9/17.6 18		
5 11	18 15.11	-37 9.4	2.485	3.284	12.4	21.4	5 11	18 16.49	-33 17.8	1.869	2.690	15.1	22.3
5 21	18 9.24	-37 52.7	2.404	3.288	10.1	21.2	5 21	18 11.16	-33 34.1	1.767	2.669	12.1	22.1
5 31	18 1.05	-38 28.6	2.346	3.292	7.5	21.1	5 31	18 2.82	-33 42.8	1.685	2.648	8.7	21.8
6 10	17 51.19	-38 53.2	2.314	3.295	5.4	21.0	6 10	17 52.14	-33 40.0	1.628	2.626	5.2	21.6
6 20	17 40.54	-39 3.8	2.309	3.298	4.9	20.9	6 20	17 40.18	-33 22.7	1.597	2.603	4.1	21.5
6 30	17 30.15	-38 59.8	2.331	3.300	6.4	21.0	6 30	17 28.35	-32 50.7	1.593	2.580	6.9	21.6
7 10	17 21.04	-38 42.9	2.381	3.302	8.8	21.2	7 10	17 18.03	-32 7.2	1.615	2.556	10.9	21.8
7 20	17 13.95	-38 16.7	2.454	3.303	11.3	21.3	7 20	17 10.28	-31 17.1	1.659	2.532	14.6	21.9
3976	<i>Lise</i>		6 17.2 306°65	5°4/16.2 18			388707	2007 <i>VR</i> ₈₀		6 17.2 241°19	3°6/17.2 18		
5 11	18 8.26	-12 41.5	1.839	2.671	14.9	16.0	5 11	18 12.77	-32 8.9	2.232	3.050	13.0	21.7
5 21	18 4.13	-11 35.8	1.757	2.664	11.9	15.8	5 21	18 7.70	-32 47.7	2.139	3.040	10.4	21.5
5 31	17 57.76	-10 34.1	1.696	2.657	8.7	15.6	5 31	18 0.22	-33 22.3	2.069	3.030	7.4	21.3
6 10	17 49.79	-9 39.9	1.660	2.651	6.0	15.4	6 10	17 50.92	-33 49.1	2.024	3.020	4.5	21.1
6 20	17 41.08	-8 56.5	1.649	2.644	5.7	15.4	6 20	17 40.67	-34 5.2	2.006	3.009	3.7	21.1
6 30	17 32.62	-8 26.4	1.665	2.638	8.0	15.5	6 30	17 30.55	-34 9.6	2.016	2.998	6.1	21.2
7 10	17 25.40	-8 10.9	1.705	2.632	11.3	15.7	7 10	17 21.64	-34 3.4	2.052	2.987	9.2	21.4
7 20	17 20.12	-8 9.3	1.766	2.626	14.4	15.8	7 20	17 14.76	-33 49.4	2.111	2.976	12.2	21.5
498481	2008 <i>CW</i> ₈₇		6 17.2 90°07	0°9/17.3 17			422716	2000 <i>WA</i> ₁₀₆		6 17.2 299°85	1°1/17.1 18		
5 11	18 14.50	-24 40.3	1.587	2.427	16.4	21.4	5 11	18 10.73	-22 19.6	1.353	2.209	17.8	20.9
5 21	18 9.32	-24 59.3	1.524	2.442	12.7	21.2	5 21	18 7.52	-22 1.4	1.250	2.177	14.1	20.6
5 31	18 1.31	-25 17.5	1.482	2.457	8.4	21.0	5 31	18 0.93	-21 41.8	1.166	2.145	9.6	20.2
6 10	17 51.32	-25 32.6	1.464	2.472	3.7	20.7	6 10	17 51.52	-21 20.5	1.104	2.113	4.3	19.8
6 20	17 40.52	-25 42.5	1.472	2.486	1.6	20.6	6 20	17 40.37	-20 57.4	1.066	2.081	2.0	19.6
6 30	17 30.25	-25 47.0	1.506	2.501	6.2	21.0	6 30	17 29.07	-20 34.0	1.052	2.049	7.8	19.8
7 10	17 21.73	-25 47.4	1.565	2.515	10.5	21.2	7 10	17 19.33	-20 12.9	1.060	2.017	13.5	20.0
7 20	17 15.78	-25 45.7	1.646	2.529	14.2	21.5	7 20	17 12.47	-19 57.1	1.088	1.985	18.7	20.2
92946	2000 <i>RC</i> ₄₀		6 17.2 313°22	1°3/17.5 18			115465	2003 <i>TM</i> ₁₇		6 17.2 159°95	3°5/17.2 18		
5 11	18 11.67	-28 14.6	1.650	2.491	15.8	19.1	5 11	18 16.22	-29 55.9	1.682	2.514	16.0	20.0
5 21	18 7.30	-27 57.5	1.567	2.485	12.4	18.9	5 21	18 10.92	-30 40.4	1.607	2.517	12.6	19.8
5 31	18 0.10	-27 34.0	1.505	2.480	8.3	18.6	5 31	18 2.58	-31 21.4	1.552	2.520	8.7	19.6
6 10	17 50.86	-27 2.8	1.467	2.474	3.8	18.4	6 10	17 51.98	-31 54.2	1.522	2.523	4.9	19.3
6 20	17 40.68	-26 23.8	1.454	2.469	1.8	18.2	6 20	17 40.29	-32 15.2	1.518	2.526	3.8	19.3
6 30	17 30.89	-25 39.1	1.468	2.463	6.2	18.5	6 30	17 28.95	-32 22.8	1.540	2.528	7.0	19.5
7 10	17 22.73	-24 52.3	1.506	2.458	10.6	18.7	7 10	17 19.33	-32 19.0	1.587	2.530	10.9	19.7
7 20	17 17.06	-24 7.4	1.567	2.454	14.5	18.9	7 20	17 12.39	-32 7.3	1.656	2.531	14.5	19.9
121486	<i>Sarahkirby</i>		6 17.2 316°28	16°8/11.8 18			404725	2014 <i>JJ</i> ₁₉		6 17.2 89°99	1°7/17.2 18		
5 11	18 24.85	-42 48.5	1.031	1.867	23.5	19.1	5 11	18 10.75	-26 25.4	2.235	3.061	12.8	21.0
5 21	18 21.98	-46 37.9	0.970	1.861	20.6	18.9	5 21	18 5.84	-27 1.7	2.159	3.069	9.9	20.8
5 31	18 12.91	-50 23.9	0.928	1.854	18.1	18.7	5 31	17 58.79	-27 37.0	2.107	3.078	6.6	20.7
6 10	17 57.63	-53 43.4	0.906	1.848	16.8	18.6	6 10	17 50.23	-28 8.8	2.081	3.086	3.2	20.5
6 20	17 37.70	-56 13.2	0.905	1.843	17.5	18.6	6 20	17 40.98	-28 34.9	2.082	3.095	2.0	20.4
6 30	17 16.80	-57 39.7	0.923	1.837	19.6	18.7	6 30	17 31.99	-28 54.4	2.112	3.103	5.0	20.6
7 10	16 59.41	-58 6.7	0.957	1.832	22.5	18.9	7 10	17 24.16	-29 7.7	2.168	3.112	8.4	20.8
7 20	16 48.67	-57 49.3	1.005	1.828	25.4	19.1	7 20	17 18.20	-29 16.0	2.248	3.120	11.3	21.0
1712	<i>Angola</i>		6 17.2 7°03	5°6/15.6 18			209380	2004 <i>EX</i> ₃₂		6 17.2 61°65	0°7/17.1 17		
5 11	18 7.41	-13 34.4	1.846	2.680	14.7	14.4	5 11	18 11.64	-24 4.7	1.909	2.743	14.3	19.9
5 21	18 3.34	-12 1.5	1.772	2.681	11.7	14.2	5 21	18 6.46	-23 23.8	1.847	2.763	11.0	19.7
5 31	17 57.14	-10 30.9	1.722	2.683	8.6	14.0	5 31	17 59.07	-22 40.0	1.808	2.782	7.2	19.5
6 10	17 49.48	-9 7.1	1.696	2.685	6.1	13.9	6 10	17 50.28	-21 53.9	1.794	2.802	3.1	19.3
6 20	17 41.23	-7 54.7	1.696	2.688	5.9	13.9	6 20	17 41.02	-21 7.2	1.808	2.822	1.4	19.2
6 30	17 33.34	-6 57.4	1.723	2.692	8.2	14.0	6 30	17 32.32	-20 22.2	1.849	2.842	5.4	19.5
7 10	17 26.72	-6 17.0	1.774	2.696	11.3	14.2	7 10	17 25.08	-19 41.4	1.916	2.862	9.1	19.8
7 20	17 21.99	-5 53.5	1.847	2.700	14.2	14.4	7 20	17 19.89	-19 6.8	2.006	2.882	12.3	20.0
123641	2000 <i>YJ</i> ₅₈		6 17.2 301°43	5°7/17.6 17			505749	2015 <i>BD</i> ₈₉		6 17.2 14			

EPHEMERIDES

6 17.2

6 17.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
347389	2012 <i>RH</i> ₃₄		6 17.2 267°76	2°3/16.9	17		394351	2007 <i>BM</i> ₁₁		6 17.3 281°99	3°5/17.5	18	
5 11	18 9.44	-18 30.3	1.917	2.752	14.2	21.0	5 11	18 7.97	-11 29.8	2.299	3.116	12.7	20.5
5 21	18 5.07	-18 4.1	1.831	2.745	11.1	20.8	5 21	18 3.55	-11 38.1	2.212	3.112	10.1	20.3
5 31	17 58.41	-17 39.4	1.767	2.739	7.5	20.6	5 31	17 57.25	-11 54.6	2.147	3.108	7.2	20.1
6 10	17 50.11	-17 17.4	1.728	2.733	3.8	20.3	6 10	17 49.60	-12 19.6	2.108	3.104	4.4	20.0
6 20	17 41.03	-16 58.8	1.715	2.727	2.7	20.2	6 20	17 41.28	-12 52.8	2.097	3.100	3.6	19.9
6 30	17 32.20	-16 44.9	1.730	2.720	6.1	20.4	6 30	17 33.10	-13 33.3	2.113	3.096	5.8	20.0
7 10	17 24.59	-16 36.6	1.770	2.714	9.9	20.6	7 10	17 25.87	-14 19.5	2.156	3.092	8.8	20.2
7 20	17 18.95	-16 34.6	1.832	2.708	13.3	20.9	7 20	17 20.22	-15 9.7	2.223	3.089	11.7	20.4
8426	1997 <i>ST</i>		6 17.2 209°72	2°0/17.1	18 R		342383	2008 <i>UL</i> ₃₂		6 17.3 239°99	1°6/17.2	17	
5 11	18 13.22	-19 38.3	1.582	2.422	16.4	18.5	5 11	18 11.82	-26 4.1	1.936	2.768	14.2	21.2
5 21	18 8.46	-19 18.0	1.502	2.419	12.8	18.3	5 21	18 7.12	-26 35.1	1.851	2.765	11.1	20.9
5 31	18 0.89	-18 59.2	1.442	2.416	8.6	18.0	5 31	17 59.90	-27 5.6	1.788	2.761	7.4	20.7
6 10	17 51.25	-18 42.4	1.406	2.413	4.1	17.7	6 10	17 50.83	-27 32.8	1.751	2.757	3.5	20.5
6 20	17 40.61	-18 28.1	1.396	2.409	2.5	17.6	6 20	17 40.81	-27 54.3	1.740	2.753	2.0	20.3
6 30	17 30.31	-18 17.4	1.412	2.405	6.8	17.9	6 30	17 31.00	-28 9.0	1.756	2.749	5.7	20.6
7 10	17 21.58	-18 11.4	1.453	2.401	11.3	18.1	7 10	17 22.50	-28 17.4	1.798	2.745	9.6	20.8
7 20	17 15.33	-18 11.1	1.515	2.396	15.3	18.3	7 20	17 16.15	-28 21.3	1.863	2.740	13.0	21.0
337116	1999 <i>SP</i> ₁₀		6 17.2 308°88	7°8/15.6	18		174555	2003 <i>FO</i> ₈₉		6 17.3 141°18	4°3/17.7	18	
5 11	18 14.48	-35 18.0	1.606	2.437	16.7	19.4	5 11	18 12.93	-36 49.5	2.524	3.327	12.1	20.9
5 21	18 10.70	-37 7.3	1.507	2.410	13.8	19.1	5 21	18 7.45	-37 16.2	2.446	3.333	9.8	20.7
5 31	18 3.29	-38 56.8	1.429	2.383	10.7	18.8	5 31	17 59.81	-37 35.0	2.390	3.339	7.2	20.5
6 10	17 52.69	-40 37.7	1.374	2.356	8.3	18.6	6 10	17 50.68	-37 42.9	2.360	3.345	5.0	20.4
6 20	17 39.92	-42 0.6	1.344	2.330	8.1	18.5	6 20	17 40.90	-37 38.1	2.358	3.351	4.4	20.4
6 30	17 26.70	-42 58.6	1.339	2.303	10.6	18.6	6 30	17 31.45	-37 20.5	2.383	3.357	5.9	20.5
7 10	17 14.97	-43 30.6	1.357	2.277	14.1	18.8	7 10	17 23.24	-36 52.4	2.435	3.362	8.4	20.6
7 20	17 6.36	-43 40.4	1.395	2.252	17.7	18.9	7 20	17 16.94	-36 17.1	2.511	3.367	10.8	20.8
211928	2004 <i>VX</i> ₁₁		6 17.2 264°44	4°8/17.5	18		37682	1995 <i>GZ</i> ₆		6 17.3 352°11	4°6/17.5	18	
5 11	18 16.48	-33 13.3	1.566	2.398	17.0	20.8	5 11	18 5.24	-14 0.9	1.061	1.935	20.3	17.7
5 21	18 11.77	-33 46.0	1.472	2.380	13.7	20.5	5 21	18 3.37	-13 55.2	0.994	1.928	16.2	17.4
5 31	18 3.58	-34 12.0	1.397	2.362	9.9	20.2	5 31	17 58.10	-14 1.5	0.944	1.922	11.3	17.1
6 10	17 52.60	-34 25.9	1.345	2.343	6.1	20.0	6 10	17 50.23	-14 21.8	0.914	1.918	6.5	16.8
6 20	17 40.05	-34 23.2	1.318	2.323	5.0	19.8	6 20	17 41.03	-14 55.9	0.905	1.915	4.8	16.7
6 30	17 27.61	-34 2.6	1.317	2.303	8.1	20.0	6 30	17 32.15	-15 42.1	0.917	1.913	8.9	16.9
7 10	17 16.98	-33 27.3	1.339	2.283	12.4	20.2	7 10	17 25.21	-16 37.4	0.950	1.913	14.0	17.2
7 20	17 9.38	-32 43.1	1.382	2.262	16.5	20.4	7 20	17 21.31	-17 38.1	1.002	1.914	18.7	17.5
104311	2000 <i>EY</i> ₁₉₅		6 17.3 287°26	1°2/17.2	17		310612	2001 <i>YD</i> ₅₈		6 17.3 268°04	0°8/17.2	18	
5 11	18 9.02	-20 16.2	1.961	2.796	13.9	20.4	5 11	18 14.23	-23 12.3	1.511	2.355	16.9	21.1
5 21	18 4.77	-20 12.1	1.873	2.789	10.8	20.2	5 21	18 9.88	-23 42.6	1.416	2.336	13.3	20.8
5 31	17 58.25	-20 9.7	1.808	2.782	7.2	19.9	5 31	18 2.29	-24 16.2	1.342	2.318	8.9	20.5
6 10	17 50.07	-20 8.8	1.767	2.775	3.3	19.7	6 10	17 52.07	-24 50.1	1.290	2.298	4.0	20.1
6 20	17 41.07	-20 9.2	1.754	2.768	1.7	19.5	6 20	17 40.30	-25 21.2	1.264	2.279	1.7	19.9
6 30	17 32.27	-20 10.9	1.767	2.761	5.5	19.8	6 30	17 28.49	-25 47.0	1.263	2.259	7.0	20.2
7 10	17 24.66	-20 14.5	1.805	2.754	9.4	20.0	7 10	17 18.22	-26 7.3	1.287	2.239	12.1	20.4
7 20	17 19.01	-20 20.7	1.867	2.747	12.9	20.2	7 20	17 10.70	-26 23.6	1.332	2.218	16.6	20.6
331925	2004 <i>RP</i> ₃₀₉		6 17.3 298°08	2°1/16.9	17		15976	1998 <i>FY</i> ₁₁₉		6 17.3 247°21	4°6/17.7	18	
5 11	18 9.65	-20 36.8	1.650	2.495	15.7	20.8	5 11	18 12.67	-36 45.3	2.354	3.161	12.8	18.6
5 21	18 5.85	-20 3.7	1.550	2.471	12.3	20.6	5 21	18 7.56	-37 12.4	2.262	3.153	10.3	18.4
5 31	17 59.31	-19 29.5	1.470	2.446	8.3	20.3	5 31	18 0.07	-37 31.6	2.193	3.144	7.7	18.2
6 10	17 50.65	-18 54.9	1.415	2.422	4.0	19.9	6 10	17 50.87	-37 39.3	2.149	3.135	5.3	18.1
6 20	17 40.81	-18 21.3	1.385	2.398	2.6	19.8	6 20	17 40.82	-37 33.4	2.132	3.127	4.7	18.0
6 30	17 31.05	-17 50.8	1.380	2.374	6.9	20.0	6 30	17 31.01	-37 13.5	2.142	3.118	6.4	18.1
7 10	17 22.63	-17 25.9	1.400	2.350	11.5	20.2	7 10	17 22.47	-36 41.9	2.179	3.108	9.1	18.3
7 20	17 16.52	-17 8.4	1.441	2.326	15.7	20.4	7 20	17 15.96	-36 2.1	2.239	3.099	11.8	18.4
107313	2001 <i>CW</i> ₁₀		6 17.3 128°03	0°3/17.3	18		333466	2004 <i>RF</i> ₃		6 17.3 209°01	3°8/16.1	18	
5 11	18 15.43	-23 26.7	1.757	2.588	15.4	20.4	5 11	18 13.01	-17 49.5	1.944	2.770	14.4	20.0
5 21	18 9.82	-23 40.3	1.687	2.601	11.9	20.2	5 21	18 7.63	-16 28.1	1.859	2.768	11.3	19.8
5 31	18 1.57	-23 54.0	1.640	2.613	7.9	20.0	5 31	17 59.98	-15 5.0	1.798	2.765	7.8	19.5
6 10	17 51.46	-24 5.8	1.617	2.625	3.4	19.8	6 10	17 50.77	-13 43.5	1.763	2.763	4.7	19.3
6 20	17 40.57	-24 14.2	1.621	2.636	1.3	19.6	6 20	17 40.89	-12 27.4	1.756	2.760	4.2	19.3
6 30	17 30.13	-24 19.0	1.652	2.647	5.8	20.0	6 30	17 31.38	-11 20.6	1.777	2.756	7.1	19.5
7 10	17 21.27	-24 21.0	1.709	2.657	9.9	20.2	7 10	17 23.19	-10 26.2	1.824	2.753	10.6	19.7
7 20	17 14.78	-24 22.1	1.789	2.666	13.5	20.5	7 20	17 17.01	-9 45.6	1.894	2.749	13.8	19.9
474907	2005 <i>SZ</i> ₂₀₉		6 17.3 291°44	7°0/17.7	18		294659	2008 <i>AZ</i> ₈₃		6 17.3 202°43	1°0/17.3	18	
5 11	18 13.95	-42 19.3	2.182	2.978	14.0	20.8	5 11	18 10.06	-25 33.6	2.292	3.118	12.5	21.8
5 21	18 9.07	-43 4.4	2.088	2.962	11.8	20.6	5 21	18 5.30	-25 48.6	2.206	3.117	9.7	21.6
5 31	18 1.36	-43 38.6	2.015	2.946	9.4	20.4	5 31	17 58.46	-26 2.4	2.144	3.115	6.4	21.4
6 10	17 51.50	-43 56.8	1.966	2.930	7.6	20.2	6 10	17 50.14	-26 13.3	2.107	3.113	2.9	21.2
6 20	17 40.51	-43 55.2	1.941	2.914	7.1	20.2	6 20	17 41.12	-26 20.2	2.097	3.112	1.4	21.1
6 30	17 29.73	-43 32.6	1.942	2.898	8.4	20.2	6 30	17 32.30	-26 22.7	2.116	3.109	4.8	21.3
7 10	17 20.44	-42 51.8	1.968	2.882	10.7	20.3	7 10	17 24.59	-26 21.6	2.161	3.107	8.3	21.5
7 20	17 13.60	-41 57.7	2.017	2.866	13.3	20.5	7 20	17 18.65	-26 18.5	2.231	3.105	11.3	21.7
115024	2003 <i>QP</i> ₉₈		6 17.3 171°29	4°2/17.2	17		500800						

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
307141	2002 CW ₁₈₈		6 17.3 109°40	4.7/17.9	18		312777	2010 VP ₆		6 17.3 303°12	2°0/16.9	18	
5 11	18 12.31	-37 31.0	2.310	3.118	13.0	20.3	5 11	18 7.43	-19 8.4	2.321	3.150	12.3	20.7
5 21	18 7.23	-37 54.7	2.229	3.118	10.5	20.2	5 21	18 3.11	-18 36.8	2.235	3.146	9.5	20.5
5 31	17 59.80	-38 9.5	2.170	3.119	7.8	20.0	5 31	17 56.94	-18 5.8	2.171	3.142	6.4	20.3
6 10	17 50.72	-38 12.0	2.135	3.120	5.5	19.9	6 10	17 49.48	-17 36.3	2.134	3.138	3.2	20.0
6 20	17 40.91	-38 0.4	2.128	3.121	4.8	19.8	6 20	17 41.44	-17 9.3	2.124	3.135	2.3	20.0
6 30	17 31.45	-37 34.7	2.147	3.121	6.4	19.9	6 30	17 33.62	-16 46.1	2.141	3.131	5.2	20.2
7 10	17 23.33	-36 57.7	2.192	3.122	9.0	20.1	7 10	17 26.82	-16 27.9	2.186	3.127	8.4	20.4
7 20	17 17.28	-36 13.1	2.261	3.123	11.6	20.3	7 20	17 21.62	-16 15.4	2.254	3.124	11.4	20.5
137895	2000 AS ₁₆₄		6 17.3 200°68	1°2/17.2	18		310347	2011 UL ₂₄₅		6 17.3 135°66	4°2/16.8	18	
5 11	18 13.44	-20 12.6	2.040	2.864	13.9	21.3	5 11	18 7.10	-8 51.7	3.013	3.811	10.5	21.4
5 21	18 8.07	-20 8.2	1.951	2.861	10.8	21.1	5 21	18 2.27	-8 17.7	2.940	3.824	8.4	21.2
5 31	18 0.38	-20 5.2	1.885	2.856	7.2	20.9	5 31	17 56.10	-7 49.7	2.891	3.836	6.3	21.1
6 10	17 51.01	-20 3.4	1.844	2.851	3.3	20.6	6 10	17 49.04	-7 29.1	2.869	3.849	4.6	21.0
6 20	17 40.80	-20 2.3	1.832	2.846	1.7	20.5	6 20	17 41.62	-7 16.9	2.875	3.860	4.3	21.0
6 30	17 30.81	-20 2.1	1.847	2.839	5.5	20.7	6 30	17 34.43	-7 13.8	2.909	3.872	5.6	21.1
7 10	17 22.05	-20 3.4	1.889	2.832	9.4	21.0	7 10	17 28.02	-7 19.4	2.971	3.882	7.6	21.3
7 20	17 15.28	-20 7.1	1.954	2.824	12.8	21.2	7 20	17 22.80	-7 33.0	3.057	3.893	9.6	21.4
91180	1998 RS ₃₄		6 17.3 326°42	0°4/17.3	18		138911	2001 AE ₂		6 17.3 39°97	6°4/17.3	17 R	
5 11	18 6.57	-21 51.1	1.923	2.766	13.9	19.4	5 11	18 6.43	-16 57.2	0.297	1.248	32.4	18.4
5 21	18 3.05	-21 55.7	1.831	2.750	10.8	19.2	5 21	18 7.57	-16 7.2	0.276	1.254	25.7	18.1
5 31	17 57.24	-22 1.5	1.760	2.736	7.2	18.9	5 31	18 2.32	-15 31.1	0.263	1.261	17.7	17.7
6 10	17 49.71	-22 7.8	1.713	2.721	3.1	18.7	6 10	17 52.33	-15 15.3	0.259	1.269	9.6	17.4
6 20	17 41.28	-22 14.0	1.693	2.708	1.3	18.5	6 20	17 40.42	-15 22.5	0.265	1.279	7.0	17.4
6 30	17 32.98	-22 19.8	1.699	2.695	5.5	18.7	6 30	17 30.16	-15 51.7	0.282	1.289	13.5	17.8
7 10	17 25.85	-22 25.6	1.730	2.682	9.5	19.0	7 10	17 24.36	-16 37.9	0.310	1.300	21.0	18.3
7 20	17 20.65	-22 32.2	1.784	2.670	13.1	19.2	7 20	17 24.06	-17 34.2	0.346	1.311	27.4	18.7
294466	2007 VV ₃₁₆		6 17.3 32°59	0°1/17.3	17		316335	2010 RP ₁₂₅		6 17.3 265°39	2°1/17.3	18	
5 11	18 10.68	-22 28.3	1.243	2.106	18.7	20.0	5 11	18 9.89	-29 1.9	2.496	3.316	11.8	21.5
5 21	18 7.09	-22 46.1	1.184	2.115	14.5	19.8	5 21	18 5.20	-29 24.3	2.395	3.301	9.2	21.3
5 31	18 0.23	-23 5.9	1.144	2.125	9.5	19.6	5 31	17 58.46	-29 44.0	2.318	3.285	6.3	21.1
6 10	17 51.03	-23 25.7	1.126	2.135	4.1	19.3	6 10	17 50.21	-29 58.7	2.266	3.269	3.3	20.9
6 20	17 40.81	-23 43.2	1.131	2.147	1.5	19.1	6 20	17 41.15	-30 6.8	2.243	3.253	2.3	20.8
6 30	17 31.17	-23 57.5	1.160	2.159	7.0	19.5	6 30	17 32.18	-30 7.7	2.247	3.237	5.0	20.9
7 10	17 23.53	-24 9.2	1.212	2.171	12.0	19.8	7 10	17 24.19	-30 2.4	2.279	3.221	8.1	21.1
7 20	17 18.81	-24 19.7	1.284	2.184	16.2	20.1	7 20	17 17.89	-29 52.5	2.335	3.204	11.1	21.3
151544	2002 SE ₄₇		6 17.3 243°50	0°1/17.3	17		213097	1999 VR ₁₀₀		6 17.3 307°08	1°4/17.3	18	
5 11	18 13.47	-23 29.4	1.893	2.724	14.5	21.2	5 11	18 10.27	-24 50.7	1.358	2.215	17.7	19.9
5 21	18 8.46	-23 26.9	1.797	2.710	11.4	20.9	5 21	18 7.13	-25 16.1	1.267	2.195	14.0	19.6
5 31	18 0.86	-23 23.5	1.721	2.695	7.6	20.7	5 31	18 0.64	-25 42.7	1.196	2.175	9.4	19.3
6 10	17 51.29	-23 18.1	1.671	2.679	3.3	20.4	6 10	17 51.43	-26 7.7	1.147	2.155	4.3	18.9
6 20	17 40.68	-23 10.0	1.648	2.663	1.3	20.2	6 20	17 40.64	-26 27.7	1.121	2.136	2.1	18.7
6 30	17 30.20	-22 59.5	1.652	2.647	5.8	20.5	6 30	17 29.87	-26 41.1	1.120	2.117	7.4	19.0
7 10	17 21.02	-22 47.9	1.682	2.630	10.1	20.7	7 10	17 20.78	-26 48.3	1.141	2.099	12.7	19.2
7 20	17 14.04	-22 37.2	1.736	2.612	13.9	20.9	7 20	17 14.62	-26 51.6	1.182	2.081	17.4	19.5
361479	2007 DO ₇₉		6 17.3 191°94	6°9/16.3	18		182749	2001 XA ₁₁₈		6 17.3 178°19	1°1/17.3	18	
5 11	18 6.13	+ 5 21.1	3.540	4.273	10.2	22.3	5 11	18 10.05	-26 14.0	2.687	3.505	11.1	21.0
5 21	18 1.40	+ 6 3.3	3.457	4.271	9.0	22.2	5 21	18 4.99	-26 34.7	2.600	3.506	8.6	20.8
5 31	17 55.50	+ 6 34.8	3.397	4.268	7.8	22.1	5 31	17 58.14	-26 54.0	2.538	3.507	5.7	20.6
6 10	17 48.78	+ 6 53.2	3.362	4.264	7.1	22.0	6 10	17 50.00	-27 10.3	2.502	3.507	2.7	20.4
6 20	17 41.69	+ 6 57.1	3.353	4.259	7.0	22.0	6 20	17 41.26	-27 22.4	2.494	3.508	1.5	20.3
6 30	17 34.71	+ 6 46.1	3.370	4.255	7.6	22.0	6 30	17 32.70	-27 29.8	2.516	3.507	4.3	20.5
7 10	17 28.34	+ 6 20.8	3.412	4.249	8.7	22.1	7 10	17 25.08	-27 33.1	2.565	3.507	7.3	20.7
7 20	17 22.97	+ 5 43.1	3.477	4.243	10.0	22.2	7 20	17 19.00	-27 33.5	2.639	3.506	10.0	20.9
469575	2003 WE ₁₀₆		6 17.3 239°59	1°9/17.2	17		394622	2007 WN ₄₁		6 17.3 172°74	1°9/17.2	18	
5 11	18 9.75	-17 49.5	2.131	2.959	13.2	22.3	5 11	18 12.63	-28 11.8	2.869	3.677	10.7	22.9
5 21	18 5.15	-17 44.5	2.040	2.951	10.3	22.1	5 21	18 6.92	-28 49.9	2.782	3.681	8.3	22.7
5 31	17 58.44	-17 42.8	1.972	2.942	7.0	21.8	5 31	17 59.38	-29 26.2	2.719	3.684	5.7	22.6
6 10	17 50.17	-17 44.4	1.929	2.934	3.5	21.6	6 10	17 50.54	-29 58.4	2.684	3.686	3.0	22.4
6 20	17 41.14	-17 49.3	1.913	2.925	2.2	21.5	6 20	17 41.06	-30 24.5	2.678	3.688	2.1	22.3
6 30	17 32.26	-17 57.5	1.925	2.916	5.5	21.7	6 30	17 31.72	-30 43.6	2.702	3.689	4.4	22.5
7 10	17 24.46	-18 9.0	1.963	2.907	9.1	21.9	7 10	17 23.29	-30 56.0	2.754	3.690	7.2	22.7
7 20	17 18.44	-18 24.0	2.025	2.897	12.4	22.1	7 20	17 16.39	-31 3.0	2.832	3.690	9.7	22.8
365059	2008 YP ₃₇		6 17.3 88°86	0°4/17.3	17		152002	2004 JE ₁₉		6 17.3 341°81	4°0/17.3	18	
5 11	18 16.60	-24 51.3	1.436	2.279	17.7	21.2	5 11	18 11.27	-32 45.7	2.065	2.889	13.7	19.8
5 21	18 11.09	-24 48.2	1.379	2.299	13.7	21.0	5 21	18 6.70	-33 27.8	1.983	2.887	10.9	19.6
5 31	18 2.54	-24 42.8	1.342	2.318	9.0	20.8	5 31	17 59.64	-34 4.8	1.924	2.886	7.8	19.4
6 10	17 51.92	-24 33.6	1.329	2.337	3.9	20.5	6 10	17 50.76	-34 33.1	1.889	2.884	4.9	19.2
6 20	17 40.55	-24 19.9	1.341	2.356	1.5	20.4	6 20	17 40.97	-34 49.6	1.881	2.883	4.1	19.1
6 30	17 29.90	-24 2.8	1.379	2.374	6.5	20.8	6 30	17 31.41	-34 53.4	1.899	2.882	6.4	19.3
7 10	17 21.27	-23 44.7	1.441	2.392	11.0	21.1	7 10	17 23.20	-34 46.0	1.943	2.881	9.5	19.5
7 20	17 15.42	-23 28.4	1.524	2.410	14.9	21.4	7 20	17 17.13	-34 30.3	2.010	2.880	12.5	19.7
91849	1999 UK ₆		6 17.3 258°18	2°4/17.3	18		213302	2001 QL ₃₂₈		6 17.3 256°85	4°8/16.8	17	
5 11	18 9.77												

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
489318	2006 SB ₄₀₈	6 17.3 320°68		0°5/17.2 17			101376	1998 UY ₁₀	6 17.3 219°72		3°2/17.3 18		
5 11	18 7.72	-22 40.5	1.254	2.121	18.3	21.6	5 11	18 13.19	-31 30.8	2.327	3.142	12.7	20.9
5 21	18 5.22	-22 35.7	1.168	2.101	14.4	21.3	5 21	18 7.94	-32 8.8	2.235	3.135	10.0	20.7
5 31	17 59.37	-22 31.0	1.101	2.082	9.7	20.9	5 31	18 0.37	-32 42.9	2.166	3.128	7.1	20.5
6 10	17 50.87	-22 25.9	1.054	2.064	4.2	20.6	6 10	17 51.09	-33 9.9	2.124	3.121	4.2	20.3
6 20	17 40.88	-22 19.5	1.031	2.046	1.7	20.3	6 20	17 40.91	-33 27.0	2.108	3.113	3.4	20.2
6 30	17 31.01	-22 12.4	1.031	2.029	7.5	20.6	6 30	17 30.88	-33 33.4	2.121	3.105	5.7	20.4
7 10	17 22.90	-22 6.1	1.052	2.013	13.0	20.9	7 10	17 22.01	-33 29.9	2.160	3.096	8.8	20.5
7 20	17 17.74	-22 2.6	1.093	1.998	17.9	21.1	7 20	17 15.09	-33 19.2	2.224	3.087	11.7	20.7
99994	1981 EN ₄₄	6 17.3 290°17		4°0/17.7 18			24191	Qiaochuyuan	6 17.3 226°29		1°9/17.3 18 R		
5 11	18 14.72	-32 43.7	1.643	2.476	16.3	18.9	5 11	18 10.12	-17 45.2	2.033	2.863	13.7	19.1
5 21	18 10.36	-32 55.7	1.535	2.445	13.1	18.6	5 21	18 5.53	-17 46.3	1.947	2.859	10.7	18.9
5 31	18 2.68	-32 59.9	1.447	2.414	9.4	18.3	5 31	17 58.75	-17 51.4	1.884	2.855	7.2	18.7
6 10	17 52.30	-32 51.7	1.382	2.382	5.5	18.0	6 10	17 50.37	-18 0.3	1.845	2.851	3.5	18.4
6 20	17 40.33	-32 28.0	1.342	2.351	4.1	17.9	6 20	17 41.21	-18 12.6	1.834	2.846	2.2	18.3
6 30	17 28.33	-31 48.3	1.328	2.318	7.5	18.0	6 30	17 32.24	-18 27.9	1.850	2.842	5.6	18.6
7 10	17 17.92	-30 56.2	1.338	2.286	12.1	18.2	7 10	17 24.42	-18 46.0	1.892	2.837	9.3	18.8
7 20	17 10.33	-29 57.6	1.370	2.254	16.4	18.3	7 20	17 18.47	-19 6.7	1.958	2.832	12.6	19.0
394714	2008 ES ₄₀	6 17.3 150°60		0°4/17.2 18			126127	2001 YZ ₁₁₉	6 17.3 99°24		0°7/17.4 17		
5 11	18 8.89	-22 36.5	2.504	3.328	11.6	21.7	5 11	18 15.16	-25 41.5	2.004	2.828	14.1	20.4
5 21	18 4.10	-22 27.4	2.422	3.332	9.0	21.5	5 21	18 9.17	-25 39.1	1.943	2.852	10.8	20.2
5 31	17 57.53	-22 17.8	2.363	3.335	5.9	21.3	5 31	18 0.92	-25 33.8	1.905	2.876	7.1	20.0
6 10	17 49.73	-22 7.3	2.331	3.339	2.6	21.1	6 10	17 51.20	-25 24.7	1.892	2.900	3.1	19.8
6 20	17 41.39	-21 56.0	2.327	3.342	1.1	21.0	6 20	17 40.95	-25 11.2	1.908	2.922	1.3	19.7
6 30	17 33.31	-21 44.3	2.352	3.345	4.4	21.3	6 30	17 31.26	-24 54.2	1.951	2.945	5.1	20.0
7 10	17 26.23	-21 33.2	2.404	3.348	7.6	21.5	7 10	17 23.04	-24 35.6	2.021	2.966	8.8	20.3
7 20	17 20.71	-21 23.8	2.481	3.351	10.4	21.7	7 20	17 16.94	-24 17.4	2.115	2.988	11.9	20.5
119621	2001 WQ ₄₃	6 17.3 132°58		1°5/17.2 17			130911	2000 VK ₅₄	6 17.3 306°60		0°8/17.2 18		
5 11	18 11.68	-19 58.4	1.798	2.634	15.0	20.6	5 11	18 10.54	-24 4.7	1.305	2.165	18.2	19.3
5 21	18 6.90	-19 46.4	1.723	2.638	11.6	20.4	5 21	18 7.26	-23 32.3	1.218	2.147	14.3	19.0
5 31	17 59.67	-19 36.1	1.669	2.643	7.7	20.2	5 31	18 0.62	-22 55.2	1.151	2.131	9.6	18.7
6 10	17 50.73	-19 27.5	1.640	2.647	3.6	19.9	6 10	17 51.40	-22 13.5	1.105	2.114	4.2	18.3
6 20	17 41.01	-19 20.6	1.637	2.651	2.0	19.8	6 20	17 40.79	-21 28.3	1.083	2.098	1.9	18.1
6 30	17 31.65	-19 16.0	1.661	2.655	5.9	20.1	6 30	17 30.42	-20 42.6	1.084	2.082	7.5	18.4
7 10	17 23.70	-19 14.4	1.711	2.658	9.9	20.3	7 10	17 21.87	-20 0.4	1.109	2.066	12.9	18.7
7 20	17 17.90	-19 16.6	1.783	2.662	13.5	20.6	7 20	17 16.24	-19 25.6	1.153	2.051	17.7	18.9
494434	2016 UL ₉₀	6 17.3 265°44		3°0/16.8 18			478101	2011 US ₆₄	6 17.3 243°63		0°3/17.3 18		
5 11	18 7.79	-16 12.3	2.310	3.135	12.4	20.9	5 11	18 9.38	-21 55.6	2.482	3.305	11.7	22.5
5 21	18 3.44	-15 37.0	2.218	3.125	9.8	20.7	5 21	18 4.68	-22 0.7	2.384	3.293	9.1	22.3
5 31	17 57.20	-15 3.9	2.149	3.115	6.8	20.5	5 31	17 58.06	-22 6.6	2.309	3.281	6.0	22.1
6 10	17 49.63	-14 34.5	2.105	3.106	3.9	20.3	6 10	17 50.05	-22 12.4	2.261	3.269	2.6	21.8
6 20	17 41.42	-14 9.9	2.090	3.096	3.2	20.3	6 20	17 41.33	-22 17.4	2.241	3.256	1.0	21.7
6 30	17 33.38	-13 51.6	2.101	3.086	5.7	20.4	6 30	17 32.72	-22 21.7	2.249	3.242	4.6	21.9
7 10	17 26.32	-13 40.4	2.140	3.076	8.9	20.6	7 10	17 25.03	-22 25.5	2.284	3.229	7.9	22.1
7 20	17 20.85	-13 36.5	2.201	3.066	11.8	20.8	7 20	17 18.92	-22 29.7	2.345	3.215	11.0	22.3
298304	2003 CV ₁₈	6 17.3 223°07		2°1/17.4 17			395682	2011 WM ₁₄₆	6 17.3 241°43		6°3/16.9 18		
5 11	18 16.82	-28 5.9	1.640	2.473	16.3	21.2	5 11	18 14.65	-40 26.5	2.449	3.242	12.8	21.2
5 21	18 11.55	-28 19.8	1.552	2.465	12.8	21.0	5 21	18 9.32	-41 32.6	2.361	3.235	10.6	21.0
5 31	18 3.16	-28 29.9	1.485	2.456	8.7	20.7	5 31	18 1.44	-42 30.8	2.296	3.228	8.4	20.8
6 10	17 52.38	-28 33.1	1.441	2.447	4.3	20.4	6 10	17 51.61	-43 16.2	2.256	3.221	6.7	20.7
6 20	17 40.39	-28 27.0	1.424	2.437	2.5	20.3	6 20	17 40.73	-43 44.8	2.242	3.214	6.4	20.7
6 30	17 28.64	-28 11.4	1.433	2.426	6.7	20.5	6 30	17 29.94	-43 54.9	2.255	3.206	7.7	20.7
7 10	17 18.57	-27 48.9	1.467	2.415	11.2	20.7	7 10	17 20.41	-43 47.9	2.293	3.199	9.8	20.9
7 20	17 11.21	-27 23.3	1.523	2.403	15.3	21.0	7 20	17 13.02	-43 27.3	2.355	3.191	12.1	21.0
154462	2003 DC ₆	6 17.3 63°74		4°9/17.7 17			93171	2000 SJ ₉₉	6 17.3 335°22		9°1/15.8 18		
5 11	18 15.51	-34 5.6	1.560	2.393	17.0	20.1	5 11	18 7.31	-5 54.8	1.547	2.376	17.3	19.3
5 21	18 10.46	-34 39.9	1.502	2.410	13.5	19.9	5 21	18 3.82	-4 28.1	1.474	2.370	14.4	19.1
5 31	18 2.27	-35 5.4	1.463	2.426	9.7	19.7	5 31	17 57.83	-3 11.8	1.420	2.364	11.6	18.9
6 10	17 51.88	-35 17.2	1.447	2.442	6.1	19.5	6 10	17 50.02	-2 11.9	1.389	2.359	9.5	18.8
6 20	17 40.64	-35 12.5	1.456	2.459	5.0	19.5	6 20	17 41.36	-1 33.4	1.381	2.354	9.4	18.8
6 30	17 30.06	-34 51.9	1.490	2.475	7.5	19.7	6 30	17 32.97	-1 19.2	1.396	2.349	11.2	18.9
7 10	17 21.49	-34 19.2	1.549	2.492	11.1	19.9	7 10	17 25.96	-1 28.8	1.434	2.345	14.1	19.0
7 20	17 15.77	-33 39.7	1.629	2.509	14.5	20.2	7 20	17 21.13	-1 59.4	1.490	2.342	17.1	19.2
166589	2002 RG ₁₆₅	6 17.3 253°65		2°9/16.8 18			106794	2000 XK ₂₆	6 17.3 145°73		3°1/17.5 18		
5 11	18 9.89	-16 0.1	2.455	3.272	12.0	20.9	5 11	18 17.84	-30 46.2	1.874	2.695	15.1	20.3
5 21	18 5.04	-15 29.8	2.349	3.252	9.5	20.6	5 21	18 11.79	-31 12.6	1.801	2.705	11.8	20.1
5 31	17 58.29	-15 1.7	2.266	3.231	6.6	20.4	5 31	18 2.97	-31 33.7	1.750	2.715	8.2	19.9
6 10	17 50.14	-14 36.7	2.209	3.209	3.8	20.2	6 10	17 52.20	-31 45.8	1.723	2.724	4.5	19.7
6 20	17 41.25	-14 16.1	2.180	3.187	3.1	20.1	6 20	17 40.57	-31 46.6	1.724	2.732	3.3	19.6
6 30	17 32.44	-14 0.9	2.180	3.164	5.6	20.2	6 30	17 29.39	-31 35.8	1.752	2.740	6.3	19.8
7 10	17 24.50	-13 52.1	2.207	3.140	8.8	20.4	7 10	17 19.86	-31 15.9	1.806	2.747	9.9	20.0
7 20	17 18.10	-13 50.0	2.258	3.117	11.8	20.6	7 20	17 12.81	-30 50.8	1.884	2.754	13.2	20.2
242157	2003 FV	6 17.3 141°41		3°8/16.7 18			356646	2011 UK ₅₃	6 17.3 123°49		2°3/16.9 17		
5 11	18 23.82	-27 18.0	1.752	2.568	16.1	20.8	5 11	18 8					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
235325	2003 <i>UF</i> ₁₈₆		6 17.3 208°49	1°4/17.2	18		272662	2005 <i>WM</i> ₁₈₄		6 17.3 93°38	2°8/17.5	17	
5 11	18 10.45	-19 14.6	2.344	3.166	12.4	21.5	5 11	18 16.11	-30 0.0	1.875	2.699	14.9	20.8
5 21	18 5.50	-19 8.4	2.253	3.161	9.6	21.3	5 21	18 10.26	-30 24.3	1.815	2.721	11.6	20.6
5 31	17 58.60	-19 4.1	2.185	3.156	6.4	21.1	5 31	18 1.85	-30 43.5	1.776	2.743	7.9	20.4
6 10	17 50.29	-19 1.5	2.144	3.150	3.0	20.9	6 10	17 51.69	-30 54.4	1.763	2.765	4.2	20.2
6 20	17 41.29	-19 0.6	2.131	3.144	1.8	20.7	6 20	17 40.88	-30 55.3	1.776	2.786	3.0	20.2
6 30	17 32.48	-19 1.5	2.146	3.137	5.0	21.0	6 30	17 30.62	-30 46.3	1.817	2.806	5.9	20.4
7 10	17 24.67	-19 4.7	2.188	3.130	8.4	21.2	7 10	17 22.02	-30 29.7	1.883	2.827	9.4	20.7
7 20	17 18.53	-19 10.6	2.254	3.123	11.4	21.3	7 20	17 15.77	-30 8.9	1.973	2.846	12.6	20.9
520089	2013 <i>YJ</i> ₈₈		6 17.3 143°38	0°7/17.3	18		5993	Tammydickinson		6 17.3 78°96	1°6/17.4	18	
5 11	18 11.12	-20 38.3	2.228	3.052	12.8	21.7	5 11	18 15.29	-26 35.4	1.282	2.135	18.8	17.1
5 21	18 6.06	-20 48.5	2.149	3.059	9.9	21.5	5 21	18 10.76	-26 46.3	1.218	2.142	14.7	16.9
5 31	17 58.96	-21 0.6	2.094	3.066	6.5	21.3	5 31	18 2.76	-26 54.0	1.173	2.150	9.8	16.6
6 10	17 50.43	-21 13.6	2.065	3.072	2.9	21.1	6 10	17 52.26	-26 55.7	1.151	2.158	4.5	16.4
6 20	17 41.25	-21 26.7	2.063	3.078	1.2	21.0	6 20	17 40.65	-26 49.3	1.152	2.166	2.2	16.2
6 30	17 32.34	-21 39.5	2.090	3.083	4.9	21.3	6 30	17 29.67	-26 35.4	1.177	2.174	7.2	16.6
7 10	17 24.55	-21 51.9	2.144	3.089	8.3	21.5	7 10	17 20.83	-26 16.8	1.226	2.182	12.2	16.9
7 20	17 18.54	-22 4.6	2.222	3.094	11.4	21.7	7 20	17 15.11	-25 57.3	1.295	2.190	16.5	17.1
31752	1999 <i>JN</i> ₉₁		6 17.3 111°51	1°2/17.4	18		32380	2000 <i>QE</i> ₁₈₄		6 17.3 335°57	5°8/17.7	18	
5 11	18 13.57	-17 48.5	1.838	2.666	15.0	18.9	5 11	18 12.61	-38 2.5	2.001	2.816	14.5	18.5
5 21	18 8.35	-18 22.1	1.765	2.677	11.6	18.7	5 21	18 8.02	-38 43.6	1.920	2.812	11.8	18.3
5 31	18 0.67	-19 1.7	1.715	2.687	7.7	18.5	5 31	18 0.68	-39 15.5	1.860	2.809	9.0	18.1
6 10	17 51.22	-19 45.6	1.690	2.696	3.5	18.2	6 10	17 51.32	-39 33.7	1.824	2.806	6.6	17.9
6 20	17 40.96	-20 31.4	1.692	2.706	1.6	18.1	6 20	17 40.98	-39 34.8	1.814	2.803	5.9	17.9
6 30	17 31.00	-21 16.9	1.721	2.715	5.7	18.4	6 30	17 30.96	-39 18.4	1.829	2.800	7.6	18.0
7 10	17 22.41	-22 0.8	1.777	2.724	9.6	18.7	7 10	17 22.47	-38 47.0	1.869	2.798	10.3	18.2
7 20	17 15.97	-22 42.6	1.857	2.733	13.1	18.9	7 20	17 16.37	-38 5.3	1.931	2.796	13.2	18.3
91321	1999 <i>GX</i> ₂₅		6 17.3 25°55	6°2/17.4	17		106357	2000 <i>VD</i> ₅		6 17.3 236°17	1°6/17.4	18	
5 11	18 13.39	-34 54.2	1.463	2.302	17.6	19.2	5 11	18 10.11	-27 47.7	2.500	3.321	11.7	20.2
5 21	18 9.34	-35 53.1	1.397	2.307	14.2	18.9	5 21	18 5.32	-28 6.7	2.407	3.313	9.1	20.0
5 31	18 1.89	-36 43.8	1.351	2.313	10.4	18.7	5 31	17 58.54	-28 23.4	2.336	3.305	6.2	19.8
6 10	17 51.89	-37 20.2	1.327	2.319	7.2	18.6	6 10	17 50.31	-28 35.9	2.292	3.297	3.1	19.6
6 20	17 40.71	-37 37.5	1.327	2.325	6.3	18.5	6 20	17 41.37	-28 42.8	2.276	3.288	1.9	19.5
6 30	17 30.00	-37 34.3	1.352	2.332	8.7	18.7	6 30	17 32.57	-28 43.8	2.288	3.279	4.7	19.7
7 10	17 21.34	-37 13.9	1.399	2.340	12.2	18.9	7 10	17 24.77	-28 39.6	2.327	3.270	7.9	19.9
7 20	17 15.73	-36 42.0	1.467	2.348	15.7	19.1	7 20	17 18.63	-28 31.9	2.391	3.261	10.8	20.0
479162	2013 <i>CO</i> ₁₇		6 17.3 87°88	4°1/17.6	17		506755	2006 <i>VP</i> ₁₃₈		6 17.3 105°88	0°3/17.3	17	
5 11	18 11.36	-34 57.9	2.346	3.159	12.6	21.5	5 11	18 10.02	-24 0.7	2.455	3.278	11.9	22.0
5 21	18 6.47	-35 28.7	2.265	3.161	10.1	21.3	5 21	18 5.02	-24 10.6	2.382	3.291	9.1	21.9
5 31	17 59.35	-35 52.8	2.207	3.162	7.4	21.2	5 31	17 58.19	-24 19.8	2.333	3.305	6.0	21.7
6 10	17 50.64	-36 7.0	2.174	3.164	4.9	21.0	6 10	17 50.10	-24 27.3	2.310	3.318	2.6	21.5
6 20	17 41.19	-36 9.2	2.167	3.166	4.2	21.0	6 20	17 41.49	-24 32.3	2.316	3.331	1.0	21.4
6 30	17 32.01	-35 59.1	2.189	3.167	6.0	21.1	6 30	17 33.18	-24 34.7	2.350	3.343	4.4	21.7
7 10	17 24.08	-35 38.6	2.236	3.169	8.7	21.2	7 10	17 25.92	-24 35.1	2.411	3.356	7.6	21.9
7 20	17 18.09	-35 10.8	2.307	3.171	11.4	21.4	7 20	17 20.30	-24 34.7	2.497	3.368	10.3	22.1
65785	Carlafracci		6 17.3 263°83	0°8/17.4	18		508529	2016 <i>RR</i> ₂₂		6 17.3 4°74	1°8/17.5	17	
5 11	18 11.51	-26 22.7	1.886	2.720	14.4	19.5	5 11	18 11.35	-28 2.7	1.897	2.730	14.4	21.4
5 21	18 6.90	-26 14.9	1.800	2.715	11.2	19.2	5 21	18 6.79	-28 13.7	1.817	2.730	11.2	21.2
5 31	17 59.79	-26 3.6	1.735	2.709	7.5	19.0	5 31	17 59.74	-28 21.0	1.758	2.730	7.6	21.0
6 10	17 50.88	-25 47.6	1.696	2.703	3.4	18.7	6 10	17 50.89	-28 22.6	1.725	2.730	3.7	20.7
6 20	17 41.12	-25 26.3	1.683	2.697	1.4	18.6	6 20	17 41.20	-28 17.1	1.717	2.730	2.1	20.6
6 30	17 31.64	-25 0.8	1.696	2.692	5.6	18.8	6 30	17 31.84	-28 4.7	1.737	2.731	5.7	20.8
7 10	17 23.54	-24 33.3	1.736	2.686	9.6	19.1	7 10	17 23.88	-27 47.1	1.782	2.731	9.5	21.1
7 20	17 17.62	-24 6.5	1.799	2.680	13.2	19.3	7 20	17 18.11	-27 27.1	1.850	2.731	12.9	21.3
321620	2009 <i>WX</i> ₆₂		6 17.3 23°30	4°4/16.9	18		346852	2009 <i>DD</i> ₁₂₄		6 17.3 120°71	0°3/17.3	18	
5 11	18 8.92	-15 6.3	1.500	2.347	16.9	19.8	5 11	18 10.29	-24 19.5	2.167	2.996	13.0	21.6
5 21	18 5.13	-14 24.9	1.432	2.351	13.3	19.6	5 21	18 5.54	-24 20.3	2.088	3.000	10.0	21.4
5 31	17 58.70	-13 48.7	1.384	2.355	9.3	19.4	5 31	17 58.69	-24 19.9	2.032	3.005	6.6	21.2
6 10	17 50.42	-13 20.2	1.359	2.359	5.6	19.2	6 10	17 50.38	-24 17.3	2.001	3.009	2.9	21.0
6 20	17 41.32	-13 1.4	1.359	2.364	4.7	19.1	6 20	17 41.41	-24 11.9	1.998	3.013	1.1	20.9
6 30	17 32.63	-12 53.6	1.383	2.370	7.7	19.3	6 30	17 32.73	-24 4.1	2.023	3.017	4.9	21.1
7 10	17 25.50	-12 57.2	1.431	2.376	11.7	19.6	7 10	17 25.25	-23 55.0	2.074	3.021	8.4	21.4
7 20	17 20.70	-13 11.1	1.500	2.382	15.3	19.8	7 20	17 19.60	-23 46.1	2.149	3.025	11.6	21.6
413780	2006 <i>HS</i> ₂₅		6 17.3 259°27	2°2/17.2	17		514219	2015 <i>OH</i> ₁₄		6 17.3 259°24	2°8/17.3	18	
5 11	18 14.72	-26 4.7	1.551	2.392	16.7	20.9	5 11	18 7.65	-14 9.2	2.514	3.332	11.8	21.8
5 21	18 10.23	-26 46.6	1.462	2.380	13.1	20.7	5 21	18 3.28	-14 6.5	2.417	3.320	9.3	21.6
5 31	18 2.52	-27 29.4	1.394	2.368	8.9	20.4	5 31	17 57.14	-14 9.0	2.344	3.308	6.5	21.4
6 10	17 52.26	-28 9.3	1.349	2.355	4.4	20.1	6 10	17 49.73	-14 17.2	2.296	3.295	3.7	21.2
6 20	17 40.57	-28 42.0	1.330	2.342	2.7	20.0	6 20	17 41.65	-14 31.1	2.276	3.283	2.9	21.2
6 30	17 28.95	-29 5.0	1.336	2.329	7.0	20.2	6 30	17 33.66	-14 50.6	2.284	3.270	5.2	21.3
7 10	17 18.95	-29 18.8	1.367	2.316	11.7	20.4	7 10	17 26.51	-15 15.1	2.320	3.257	8.2	21.5
7 20	17 11.70	-29 25.7	1.419	2.303	15.9	20.6	7 20	17 20.81	-15 43.9	2.379	3.244	11.0	21.6
431067	2006 <i>BB</i> ₂₂₁		6 17.3 126°77	1°2/17.3	17		195407	2002 <i>GJ</i> ₃₇		6 17.3 6			

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6 17.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
328101	2008 <i>AK</i> ₂₂	6 17.3 161°30		1°7/17.4 17			92059	1999 <i>VW</i> ₂₂₃	6 17.3 224°21		4°3/17.0 18		
5 11	18 15.57	-27 18.6	1.827	2.655	15.1	22.1	5 11	18 6.67	-9 26.6	2.700	3.506	11.4	20.0
5 21	18 10.10	-27 32.4	1.749	2.660	11.7	21.9	5 21	18 2.32	-9 4.0	2.610	3.500	9.2	19.8
5 31	18 1.94	-27 43.1	1.694	2.665	7.9	21.6	5 31	17 56.40	-8 48.0	2.543	3.493	6.8	19.7
6 10	17 51.85	-27 48.1	1.663	2.668	3.8	21.4	6 10	17 49.38	-8 40.0	2.503	3.487	4.8	19.5
6 20	17 40.88	-27 45.9	1.658	2.672	2.0	21.3	6 20	17 41.83	-8 40.9	2.489	3.480	4.4	19.5
6 30	17 30.29	-27 36.5	1.681	2.675	5.9	21.5	6 30	17 34.42	-8 51.1	2.504	3.474	5.9	19.6
7 10	17 21.24	-27 21.7	1.730	2.677	9.9	21.8	7 10	17 27.79	-9 10.0	2.545	3.467	8.3	19.7
7 20	17 14.57	-27 4.5	1.802	2.679	13.4	22.0	7 20	17 22.47	-9 36.7	2.610	3.459	10.7	19.9
235812	2004 <i>XW</i> ₆₀	6 17.3 109°59		0°7/17.4 17			514452	2016 <i>UJ</i> ₈₀	6 17.3 277°78		0°9/17.3 18		
5 11	18 13.47	-25 58.6	2.210	3.032	13.0	21.6	5 11	18 9.41	-24 14.0	2.349	3.175	12.2	21.3
5 21	18 7.79	-25 55.6	2.143	3.051	10.0	21.4	5 21	18 4.93	-24 43.5	2.254	3.165	9.5	21.1
5 31	18 0.03	-25 49.8	2.099	3.070	6.6	21.2	5 31	17 58.40	-25 13.8	2.182	3.154	6.3	20.9
6 10	17 50.90	-25 40.3	2.081	3.088	2.9	21.0	6 10	17 50.33	-25 43.0	2.136	3.143	2.8	20.6
6 20	17 41.26	-25 26.5	2.091	3.106	1.2	20.9	6 20	17 41.46	-26 9.3	2.118	3.133	1.3	20.5
6 30	17 32.05	-25 9.3	2.129	3.123	4.8	21.2	6 30	17 32.68	-26 31.6	2.129	3.122	4.8	20.7
7 10	17 24.14	-24 50.3	2.195	3.140	8.2	21.5	7 10	17 24.87	-26 49.8	2.166	3.111	8.2	20.9
7 20	17 18.14	-24 31.5	2.285	3.156	11.2	21.7	7 20	17 18.76	-27 4.6	2.227	3.101	11.3	21.1
50484	2000 <i>DB</i> ₈₃	6 17.3 77°89		3°4/17.4 18			27985	Remanzacco	6 17.3 333°56		0°6/17.3 18		
5 11	18 12.03	-14 43.0	1.556	2.395	16.8	19.1	5 11	18 9.98	-24 16.3	1.979	2.814	13.8	18.1
5 21	18 7.44	-14 39.7	1.491	2.406	13.2	18.8	5 21	18 5.62	-24 29.3	1.897	2.812	10.7	17.9
5 31	18 0.20	-14 44.3	1.446	2.417	9.1	18.6	5 31	17 58.93	-24 42.0	1.837	2.811	7.1	17.7
6 10	17 51.09	-14 57.1	1.425	2.427	5.0	18.4	6 10	17 50.57	-24 52.8	1.802	2.810	3.1	17.4
6 20	17 41.17	-15 17.6	1.429	2.438	3.6	18.4	6 20	17 41.40	-25 0.4	1.793	2.808	1.3	17.3
6 30	17 31.68	-15 45.1	1.459	2.449	7.0	18.6	6 30	17 32.47	-25 4.6	1.812	2.807	5.3	17.6
7 10	17 23.75	-16 18.1	1.513	2.460	11.0	18.8	7 10	17 24.79	-25 6.0	1.856	2.806	9.1	17.8
7 20	17 18.19	-16 55.4	1.589	2.471	14.7	19.1	7 20	17 19.12	-25 6.0	1.924	2.805	12.5	18.0
438763	2008 <i>UC</i> ₁₇₉	6 17.3 181°63		1°9/17.0 18			247862	2003 <i>UL</i> ₅₅	6 17.3 303°39		1°7/17.5 18		
5 11	18 11.28	-19 9.4	2.415	3.234	12.1	21.9	5 11	18 11.26	-27 38.3	1.348	2.203	17.9	19.6
5 21	18 6.01	-18 40.2	2.329	3.235	9.4	21.7	5 21	18 8.04	-27 36.0	1.254	2.180	14.2	19.3
5 31	17 58.87	-18 11.4	2.267	3.236	6.3	21.5	5 31	18 1.36	-27 28.4	1.179	2.157	9.7	19.0
6 10	17 50.44	-17 43.9	2.231	3.235	3.2	21.3	6 10	17 51.90	-27 13.1	1.126	2.134	4.6	18.6
6 20	17 41.43	-17 18.4	2.224	3.235	2.2	21.2	6 20	17 40.85	-26 48.2	1.097	2.111	2.2	18.4
6 30	17 32.68	-16 56.2	2.245	3.234	5.0	21.4	6 30	17 29.89	-26 14.6	1.092	2.089	7.4	18.6
7 10	17 24.97	-16 38.4	2.294	3.232	8.2	21.6	7 10	17 20.70	-25 36.0	1.109	2.067	12.9	18.9
7 20	17 18.88	-16 25.9	2.367	3.230	11.1	21.8	7 20	17 14.53	-24 57.0	1.146	2.046	17.7	19.1
507487	2012 <i>UC</i> ₁₉	6 17.3 193°44		0°1/17.3 17			379149	2009 <i>PH</i> ₁₀	6 17.3 331°90		1°7/17.4 17		
5 11	18 10.95	-23 17.1	2.076	2.906	13.5	22.1	5 11	18 5.86	-26 42.5	1.153	2.027	19.1	20.5
5 21	18 6.20	-23 22.6	1.992	2.905	10.4	21.9	5 21	18 4.20	-26 49.2	1.070	2.006	15.0	20.2
5 31	17 59.23	-23 27.9	1.931	2.904	6.9	21.7	5 31	17 58.97	-26 52.4	1.005	1.987	10.2	19.9
6 10	17 50.67	-23 32.0	1.896	2.903	3.0	21.4	6 10	17 50.90	-26 49.7	0.960	1.969	4.8	19.5
6 20	17 41.34	-23 34.0	1.887	2.902	1.1	21.3	6 20	17 41.22	-26 39.2	0.937	1.951	2.3	19.3
6 30	17 32.26	-23 33.8	1.906	2.901	5.1	21.5	6 30	17 31.71	-26 20.8	0.936	1.936	7.8	19.5
7 10	17 24.39	-23 32.4	1.952	2.899	8.9	21.8	7 10	17 24.13	-25 57.6	0.956	1.921	13.5	19.8
7 20	17 18.43	-23 30.9	2.021	2.898	12.2	22.0	7 20	17 19.75	-25 33.3	0.994	1.909	18.5	20.0
491513	2012 <i>JK</i> ₂₇	6 17.3 85°38		11°4/20.9 17			517276	2014 <i>FG</i> ₇₄	6 17.3 124°93		3°7/17.5 17		
5 11	18 20.12	+ 4 32.6	1.079	1.882	24.8	21.2	5 11	18 9.37	-11 3.7	2.300	3.113	12.9	21.1
5 21	18 14.84	+ 3 57.3	1.014	1.888	21.3	21.0	5 21	18 4.59	-11 3.3	2.224	3.121	10.2	21.0
5 31	18 5.74	+ 2 43.0	0.964	1.894	17.2	20.7	5 31	17 57.97	-11 10.7	2.170	3.128	7.3	20.8
6 10	17 53.72	+ 0 45.0	0.934	1.900	13.4	20.5	6 10	17 50.07	-11 26.6	2.142	3.136	4.6	20.6
6 20	17 40.20	+ 1 54.4	0.925	1.907	11.4	20.4	6 20	17 41.60	-11 50.9	2.142	3.143	3.9	20.6
6 30	17 27.09	- 5 4.8	0.941	1.913	12.8	20.5	6 30	17 33.37	-12 22.7	2.169	3.149	5.9	20.7
7 10	17 16.18	- 8 30.4	0.981	1.919	16.4	20.8	7 10	17 26.14	-13 1.0	2.223	3.156	8.7	20.9
7 20	17 8.69	-11 55.8	1.042	1.925	20.5	21.0	7 20	17 20.50	-13 44.0	2.301	3.162	11.5	21.1
476097	2007 <i>TV</i> ₁₁₃	6 17.3 284°97		4°7/17.0 18			380550	2004 <i>OT</i> ₅	6 17.3 331°26		8°4/19.3 18		
5 11	18 8.89	-11 29.8	1.985	2.808	14.2	21.3	5 11	18 17.14	-43 49.3	1.484	2.299	18.6	19.9
5 21	18 4.81	-11 4.3	1.882	2.785	11.5	21.1	5 21	18 12.63	-43 59.8	1.403	2.289	15.7	19.7
5 31	17 58.48	-10 45.8	1.801	2.761	8.4	20.9	5 31	18 4.24	-43 50.6	1.340	2.281	12.5	19.5
6 10	17 50.42	-10 36.2	1.744	2.737	5.6	20.6	6 10	17 53.00	-43 15.0	1.298	2.272	9.6	19.3
6 20	17 41.41	-10 37.0	1.713	2.713	4.9	20.6	6 20	17 40.53	-42 9.4	1.279	2.264	8.4	19.2
6 30	17 32.40	-10 49.0	1.709	2.688	7.3	20.6	6 30	17 28.80	-40 35.9	1.284	2.257	9.9	19.3
7 10	17 24.39	-11 11.8	1.730	2.664	10.7	20.8	7 10	17 19.51	-38 42.7	1.313	2.251	13.1	19.4
7 20	17 18.21	-11 44.3	1.773	2.639	14.1	21.0	7 20	17 13.68	-36 40.6	1.363	2.245	16.6	19.6
78934	2003 <i>SM</i> ₁₄₇	6 17.3 220°96		2°9/17.5 18			31644	1999 <i>GY</i> ₄₁	6 17.3 228°53		3°4/17.3 18		
5 11	18 16.86	-30 17.5	2.014	2.832	14.2	20.4	5 11	18 13.34	-15 1.6	1.636	2.470	16.3	18.0
5 21	18 11.16	-30 41.9	1.919	2.822	11.3	20.2	5 21	18 8.63	-14 55.5	1.551	2.462	12.9	17.8
5 31	18 2.75	-31 2.0	1.846	2.811	7.8	19.9	5 31	18 1.17	-14 56.3	1.486	2.455	9.0	17.5
6 10	17 52.28	-31 14.4	1.798	2.799	4.3	19.7	6 10	17 51.63	-15 4.9	1.444	2.446	4.9	17.3
6 20	17 40.73	-31 16.5	1.778	2.787	3.1	19.6	6 20	17 41.00	-15 21.0	1.428	2.438	3.6	17.2
6 30	17 29.35	-31 7.7	1.785	2.774	6.1	19.8	6 30	17 30.55	-15 44.4	1.439	2.429	7.1	17.3
7 10	17 19.34	-30 49.7	1.819	2.759	9.9	19.9	7 10	17 21.51	-16 14.0	1.474	2.419	11.4	17.6
7 20	17 11.63	-30 26.0	1.876	2.745	13.3	20.1	7 20	17 14.81	-16 48.9	1.531	2.409	15.3	17.8
474054	2016 <i>HE</i> ₁	6 17.3 2°39		5°6/16.7 17			478191	2011 <i>UG</i> ₂₄₃	6 17.3 177°91		4°0/17.1 18		
5 11													

EPHEMERIDES

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6 17.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
373575	2001 YP ₇₂		6 17.3 218°18	2°3/17.7	18		369476	2010 TE ₉₅		6 17.3	1°39	4°3/17.4	18
5 11	18 15.36	-30 58.2	2.273	3.086	13.0	21.5	5 11	18 11.28	-34 27.3	2.243	3.060	13.0	21.2
5 21	18 9.59	-30 59.3	2.177	3.077	10.2	21.3	5 21	18 6.61	-35 7.6	2.162	3.060	10.4	21.1
5 31	18 1.48	-30 54.3	2.103	3.067	7.1	21.1	5 31	17 59.61	-35 41.8	2.103	3.060	7.6	20.9
6 10	17 51.67	-30 41.0	2.055	3.057	3.8	20.8	6 10	17 50.91	-36 6.4	2.069	3.060	5.1	20.7
6 20	17 41.03	-30 18.4	2.035	3.046	2.5	20.7	6 20	17 41.38	-36 18.9	2.062	3.060	4.4	20.7
6 30	17 30.63	-29 46.9	2.044	3.034	5.3	20.9	6 30	17 32.09	-36 18.3	2.081	3.060	6.3	20.8
7 10	17 21.49	-29 9.1	2.080	3.022	8.8	21.1	7 10	17 24.05	-36 6.4	2.127	3.060	9.1	21.0
7 20	17 14.36	-28 28.3	2.141	3.008	12.0	21.3	7 20	17 18.04	-35 46.0	2.196	3.061	11.8	21.2
34152	Kendrazhang		6 17.3 339°72	1°6/17.2	18		117	Lomia		6 17.3 228°32	7°2/17.9	18	
5 11	18 7.46	-19 32.1	1.830	2.672	14.5	19.2	5 11	18 15.79	-43 39.6	2.266	3.053	13.8	12.9
5 21	18 3.79	-19 22.9	1.747	2.666	11.3	18.9	5 21	18 10.40	-44 26.0	2.186	3.051	11.7	12.8
5 31	17 57.79	-19 16.1	1.685	2.660	7.5	18.7	5 31	18 2.25	-45 0.5	2.126	3.049	9.4	12.6
6 10	17 50.11	-19 11.6	1.648	2.654	3.6	18.4	6 10	17 52.08	-45 18.3	2.090	3.047	7.7	12.5
6 20	17 41.60	-19 9.6	1.636	2.649	2.0	18.3	6 20	17 40.96	-45 15.8	2.080	3.046	7.2	12.5
6 30	17 33.32	-19 10.5	1.650	2.645	5.8	18.6	6 30	17 30.18	-44 52.6	2.095	3.044	8.3	12.5
7 10	17 26.28	-19 14.6	1.690	2.641	9.8	18.8	7 10	17 20.97	-44 11.6	2.135	3.041	10.4	12.7
7 20	17 21.24	-19 22.3	1.752	2.637	13.3	19.0	7 20	17 14.18	-43 17.8	2.197	3.039	12.6	12.8
308538	2005 UV ₁₇₆		6 17.3 260°02	0°3/17.4	17		304100	2006 HU ₅₇		6 17.3 139°88	10°8/15.5	16	
5 11	18 12.23	-24 16.0	1.814	2.650	14.9	21.5	5 11	18 14.52	+ 1 11.5	1.861	2.639	16.7	21.7
5 21	18 7.68	-24 16.7	1.722	2.638	11.6	21.3	5 21	18 8.77	+ 2 57.6	1.803	2.653	14.4	21.6
5 31	18 0.50	-24 16.2	1.651	2.626	7.7	21.0	5 31	18 0.80	+ 4 29.0	1.765	2.666	12.3	21.5
6 10	17 51.33	-24 13.1	1.605	2.613	3.4	20.7	6 10	17 51.33	+ 5 39.2	1.751	2.678	11.0	21.4
6 20	17 41.14	-24 6.7	1.585	2.600	1.3	20.6	6 20	17 41.26	+ 6 23.8	1.761	2.689	10.9	21.5
6 30	17 31.11	-23 57.0	1.592	2.587	5.8	20.8	6 30	17 31.61	+ 6 40.8	1.795	2.700	12.1	21.6
7 10	17 22.44	-23 45.6	1.624	2.574	10.2	21.1	7 10	17 23.31	+ 6 31.5	1.851	2.709	14.0	21.7
7 20	17 16.01	-23 34.5	1.679	2.561	14.0	21.3	7 20	17 17.01	+ 6 0.0	1.928	2.718	16.1	21.9
310592	2001 VM ₁₀		6 17.3 266°51	1°3/17.0	17		73108	2002 GS ₃₆		6 17.3 265°85	3°8/17.4	18	
5 11	18 11.02	-21 38.7	2.445	3.265	12.0	21.6	5 11	18 14.85	-30 30.3	1.516	2.356	17.1	20.0
5 21	18 6.03	-21 2.1	2.335	3.242	9.4	21.4	5 21	18 10.45	-31 7.2	1.433	2.348	13.6	19.7
5 31	17 59.05	-20 23.2	2.248	3.218	6.3	21.2	5 31	18 2.73	-31 40.0	1.370	2.340	9.5	19.5
6 10	17 50.61	-19 42.5	2.188	3.194	2.9	20.9	6 10	17 52.44	-32 3.9	1.330	2.332	5.4	19.2
6 20	17 41.43	-19 1.2	2.156	3.169	1.7	20.8	6 20	17 40.79	-32 14.7	1.315	2.324	4.1	19.1
6 30	17 32.34	-18 20.9	2.153	3.144	5.0	21.0	6 30	17 29.39	-32 11.4	1.325	2.316	7.5	19.3
7 10	17 24.19	-17 43.8	2.178	3.119	8.5	21.1	7 10	17 19.79	-31 55.9	1.359	2.308	11.9	19.5
7 20	17 17.67	-17 11.7	2.228	3.093	11.7	21.3	7 20	17 13.10	-31 32.8	1.414	2.299	15.9	19.7
333300	2000 SF ₂₁₂		6 17.3 298°07	2°2/17.2	18		236643	2006 KC ₄₆		6 17.3 141°50	1°9/17.2	17	
5 11	18 12.41	-26 11.3	1.670	2.510	15.7	20.8	5 11	18 10.10	-18 48.5	1.959	2.792	14.0	21.3
5 21	18 8.53	-26 49.7	1.560	2.477	12.5	20.5	5 21	18 5.58	-18 33.8	1.880	2.793	10.9	21.1
5 31	18 1.56	-27 29.8	1.470	2.444	8.5	20.2	5 31	17 58.85	-18 21.2	1.823	2.795	7.3	20.9
6 10	17 52.02	-28 8.1	1.405	2.411	4.2	19.8	6 10	17 50.56	-18 11.3	1.790	2.796	3.6	20.6
6 20	17 40.83	-28 40.7	1.365	2.378	2.6	19.6	6 20	17 41.54	-18 4.3	1.785	2.797	2.3	20.5
6 30	17 29.37	-29 4.9	1.350	2.344	6.9	19.8	6 30	17 32.80	-18 0.7	1.806	2.798	5.7	20.8
7 10	17 19.17	-29 20.5	1.361	2.311	11.7	20.0	7 10	17 25.30	-18 1.0	1.853	2.799	9.4	21.0
7 20	17 11.48	-29 29.1	1.392	2.277	16.1	20.2	7 20	17 19.72	-18 5.8	1.924	2.800	12.7	21.2
41012	1999 UD ₁₇		6 17.3 275°36	1°1/17.3	18		984	Gretia		6 17.3 277°87	3°8/17.8	18	A
5 11	18 8.22	-19 15.1	2.399	3.225	12.0	19.2	5 11	18 13.20	-33 51.7	2.078	2.896	13.8	13.7
5 21	18 3.91	-19 20.7	2.300	3.210	9.4	19.0	5 21	18 8.39	-34 5.1	1.976	2.877	11.1	13.5
5 31	17 57.68	-19 28.9	2.224	3.195	6.3	18.7	5 31	18 0.97	-34 11.0	1.897	2.857	8.0	13.3
6 10	17 50.04	-19 39.4	2.174	3.180	2.9	18.5	6 10	17 51.57	-34 6.2	1.841	2.838	4.9	13.0
6 20	17 41.65	-19 51.6	2.151	3.165	1.5	18.4	6 20	17 41.14	-33 48.5	1.813	2.818	3.9	12.9
6 30	17 33.34	-20 5.2	2.157	3.150	4.8	18.6	6 30	17 30.86	-33 18.0	1.811	2.797	6.3	13.0
7 10	17 25.93	-20 20.1	2.189	3.135	8.2	18.8	7 10	17 21.91	-32 37.2	1.836	2.777	9.8	13.2
7 20	17 20.08	-20 36.5	2.246	3.119	11.3	18.9	7 20	17 15.17	-31 50.3	1.884	2.757	13.1	13.4
183332	2002 VR ₇₂		6 17.3 172°98	1°8/17.3	18		470532	2008 DU ₂₀		6 17.3 143°60	4°2/18.3	18	
5 11	18 13.28	-18 19.1	2.045	2.869	13.9	21.2	5 11	18 14.76	-37 55.5	2.439	3.238	12.6	21.0
5 21	18 7.93	-18 14.3	1.964	2.872	10.8	21.0	5 21	18 8.94	-37 55.1	2.358	3.243	10.2	20.9
5 31	18 0.35	-18 12.5	1.905	2.874	7.3	20.8	5 31	18 0.90	-37 44.6	2.299	3.247	7.5	20.7
6 10	17 51.18	-18 13.5	1.871	2.876	3.5	20.6	6 10	17 51.38	-37 21.3	2.265	3.252	5.1	20.6
6 20	17 41.27	-18 17.2	1.865	2.878	2.1	20.5	6 20	17 41.27	-36 44.4	2.259	3.256	4.2	20.5
6 30	17 31.62	-18 23.4	1.887	2.878	5.6	20.7	6 30	17 31.60	-35 55.1	2.281	3.260	5.8	20.6
7 10	17 23.20	-18 32.5	1.936	2.879	9.2	20.9	7 10	17 23.30	-34 56.7	2.330	3.263	8.4	20.8
7 20	17 16.72	-18 44.6	2.008	2.878	12.5	21.2	7 20	17 17.02	-33 53.6	2.404	3.267	11.0	21.0
213833	2003 QN ₁₀₁		6 17.3 252°60	4°7/17.5	17		319064	2005 WL ₂₇		6 17.3 182°52	0°2/17.3	17	
5 11	18 16.45	-33 15.6	1.645	2.474	16.4	20.4	5 11	18 12.43	-23 41.8	1.856	2.690	14.7	21.1
5 21	18 11.60	-33 49.8	1.555	2.462	13.2	20.2	5 21	18 7.59	-23 31.7	1.775	2.690	11.4	20.9
5 31	18 3.46	-34 17.4	1.486	2.449	9.5	19.9	5 31	18 0.27	-23 20.1	1.716	2.690	7.5	20.7
6 10	17 52.75	-34 33.4	1.440	2.436	5.9	19.7	6 10	17 51.20	-23 6.3	1.682	2.690	3.3	20.4
6 20	17 40.66	-34 33.7	1.419	2.423	4.8	19.6	6 20	17 41.31	-22 50.2	1.674	2.690	1.2	20.2
6 30	17 28.77	-34 17.3	1.423	2.409	7.7	19.7	6 30	17 31.75	-22 32.7	1.694	2.689	5.6	20.5
7 10	17 18.62	-33 46.9	1.452	2.395	11.7	19.9	7 10	17 23.59	-22 15.3	1.739	2.689	9.7	20.8
7 20	17 11.33	-33 7.9	1.503	2.381	15.6	20.1	7 20	17 17.59	-22 0.0	1.808	2.688	13.2	21.0
308636	2005 YB ₅₆		6 17.3 249°07	0°2/17.4	18		411773	2012 BZ ₁₄₃		6 17.3 228°84	1°4/17.3	17	
5 11	18 12.17	-23 48.9											

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6 17.3

6 17.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
425865	2011 <i>FX</i> ₃		6 17.3	33°89	10°6/17.8	17	119517	2001 <i>US</i> ₁₅₀		6 17.4	84°55	2°2/17.3	17
5 11	18 7.62	- 1 8.2	1.373	2.197	19.4	20.2	5 11	18 16.17	-25 48.5	1.366	2.213	18.2	19.0
5 21	18 4.13	- 0 5.9	1.324	2.211	16.4	20.0	5 21	18 11.37	-26 31.9	1.303	2.224	14.2	18.8
5 31	17 58.05	+ 0 36.4	1.294	2.226	13.5	19.9	5 31	18 3.22	-27 15.2	1.260	2.235	9.5	18.6
6 10	17 50.21	+ 0 53.4	1.283	2.243	11.2	19.8	6 10	17 52.60	-27 54.0	1.239	2.246	4.5	18.3
6 20	17 41.70	+ 0 42.4	1.295	2.260	10.7	19.8	6 20	17 40.87	-28 24.3	1.243	2.256	2.7	18.2
6 30	17 33.71	+ 0 4.2	1.328	2.277	12.0	19.9	6 30	17 29.65	-28 44.1	1.272	2.267	7.1	18.5
7 10	17 27.31	- 0 57.1	1.383	2.296	14.4	20.1	7 10	17 20.45	-28 54.7	1.325	2.278	11.8	18.8
7 20	17 23.23	- 2 15.4	1.457	2.315	17.1	20.3	7 20	17 14.26	-28 58.9	1.399	2.288	15.8	19.1
376612	2013 <i>PK</i> ₄₀		6 17.3	249°54	1°6/17.2	18	113517	2002 <i>TW</i> ₁₃		6 17.4	237°11	1°1/17.3	17
5 11	18 12.87	-20 42.4	1.907	2.738	14.5	21.4	5 11	18 9.88	-20 5.8	2.159	2.987	13.1	20.3
5 21	18 8.01	-20 19.7	1.809	2.722	11.3	21.2	5 21	18 5.34	-20 4.3	2.070	2.982	10.2	20.1
5 31	18 0.66	-19 56.7	1.734	2.706	7.6	20.9	5 31	17 58.70	-20 4.7	2.004	2.976	6.8	19.9
6 10	17 51.43	-19 33.8	1.683	2.689	3.6	20.6	6 10	17 50.54	-20 6.5	1.964	2.971	3.1	19.6
6 20	17 41.21	-19 11.3	1.659	2.672	2.0	20.5	6 20	17 41.63	-20 9.4	1.951	2.965	1.5	19.5
6 30	17 31.13	-18 50.7	1.662	2.654	6.0	20.7	6 30	17 32.90	-20 13.5	1.965	2.959	5.1	19.8
7 10	17 22.29	-18 33.5	1.691	2.636	10.2	20.9	7 10	17 25.26	-20 19.0	2.007	2.953	8.8	20.0
7 20	17 15.54	-18 21.2	1.743	2.618	13.9	21.1	7 20	17 19.40	-20 26.5	2.071	2.947	12.0	20.2
470798	2008 <i>UJ</i> ₃₆₁		6 17.3	246°16	4°2/16.6	16	398195	2010 <i>MZ</i> ₂₅		6 17.4	213°16	6°3/16.6	18
5 11	18 10.29	-13 51.9	2.118	2.939	13.5	21.7	5 11	18 6.57	- 3 34.6	2.666	3.455	11.9	21.3
5 21	18 5.62	-13 3.1	2.024	2.927	10.8	21.4	5 21	18 2.26	- 2 50.5	2.582	3.451	10.0	21.2
5 31	17 58.86	-12 17.4	1.953	2.914	7.7	21.2	5 31	17 56.41	- 2 15.5	2.520	3.447	8.0	21.1
6 10	17 50.58	-11 37.2	1.907	2.901	5.0	21.0	6 10	17 49.48	- 1 52.2	2.484	3.442	6.6	21.0
6 20	17 41.54	-11 4.5	1.888	2.888	4.5	21.0	6 20	17 42.04	- 1 42.3	2.474	3.437	6.3	20.9
6 30	17 32.66	-10 41.3	1.896	2.874	6.8	21.1	6 30	17 34.75	- 1 46.5	2.490	3.432	7.5	21.0
7 10	17 24.83	-10 28.6	1.931	2.860	10.1	21.3	7 10	17 28.26	- 2 4.4	2.532	3.427	9.4	21.1
7 20	17 18.76	-10 26.4	1.988	2.845	13.2	21.4	7 20	17 23.06	- 2 34.3	2.597	3.422	11.4	21.2
465285	2007 <i>TN</i> ₂₄₄		6 17.3	283°24	6°7/17.6	17	507684	2013 <i>SD</i> ₆₂		6 17.4	303°84	2°4/17.3	17
5 11	18 16.19	-36 28.7	1.446	2.280	18.1	21.2	5 11	18 9.55	-18 38.9	1.425	2.278	17.3	21.7
5 21	18 12.08	-37 14.0	1.357	2.263	14.8	21.0	5 21	18 6.33	-18 27.0	1.332	2.257	13.6	21.4
5 31	18 4.18	-37 50.2	1.288	2.246	11.2	20.7	5 31	18 0.07	-18 18.8	1.258	2.235	9.3	21.1
6 10	17 53.21	-38 10.2	1.239	2.229	7.8	20.5	6 10	17 51.38	-18 14.8	1.207	2.214	4.6	20.7
6 20	17 40.53	-38 8.4	1.215	2.212	6.8	20.4	6 20	17 41.29	-18 15.3	1.179	2.192	2.8	20.6
6 30	17 28.02	-37 42.8	1.214	2.195	9.4	20.5	6 30	17 31.22	-18 20.6	1.176	2.172	7.4	20.8
7 10	17 17.56	-36 57.4	1.236	2.178	13.4	20.6	7 10	17 22.63	-18 31.2	1.196	2.151	12.5	21.0
7 20	17 10.46	-35 59.4	1.278	2.161	17.4	20.8	7 20	17 16.65	-18 47.4	1.236	2.131	17.1	21.2
199691	2006 <i>HO</i> ₂₃		6 17.3	152°81	5°0/16.8	18	272703	2005 <i>YL</i> ₁₃		6 17.4	148°19	0°4/17.3	17
5 11	18 10.46	- 8 47.5	2.449	3.250	12.5	21.5	5 11	18 12.63	-22 23.5	2.045	2.872	13.7	21.7
5 21	18 5.26	- 8 6.3	2.374	3.260	10.1	21.4	5 21	18 7.48	-22 23.0	1.967	2.879	10.6	21.5
5 31	17 58.34	- 7 32.0	2.322	3.268	7.6	21.2	5 31	18 0.09	-22 22.7	1.912	2.885	7.0	21.3
6 10	17 50.27	- 7 6.8	2.296	3.276	5.6	21.1	6 10	17 51.12	-22 21.6	1.883	2.890	3.0	21.1
6 20	17 41.70	- 6 52.2	2.297	3.283	5.2	21.1	6 20	17 41.46	-22 19.3	1.880	2.896	1.2	20.9
6 30	17 33.39	- 6 49.0	2.326	3.290	6.7	21.2	6 30	17 32.11	-22 15.9	1.906	2.900	5.2	21.2
7 10	17 26.06	- 6 56.9	2.382	3.296	9.1	21.4	7 10	17 24.03	-22 12.4	1.958	2.905	8.9	21.5
7 20	17 20.24	- 7 14.6	2.461	3.301	11.5	21.6	7 20	17 17.92	-22 9.9	2.034	2.909	12.2	21.7
497071	2003 <i>UL</i> ₂₅₄		6 17.3	236°01	3°7/17.3	17	45501	2000 <i>BQ</i> ₃		6 17.4	170°76	1°4/17.3	18
5 11	18 16.57	-30 38.2	1.785	2.611	15.5	22.4	5 11	18 10.53	-18 48.0	2.169	2.995	13.1	19.1
5 21	18 11.41	-31 19.8	1.693	2.600	12.3	22.2	5 21	18 5.76	-18 50.5	2.087	2.996	10.2	18.9
5 31	18 3.21	-31 58.1	1.623	2.588	8.6	21.9	5 31	17 58.92	-18 56.0	2.027	2.998	6.8	18.7
6 10	17 52.65	-32 28.5	1.576	2.576	5.0	21.7	6 10	17 50.62	-19 4.1	1.993	2.999	3.2	18.5
6 20	17 40.78	-32 47.1	1.556	2.564	3.9	21.6	6 20	17 41.63	-19 14.2	1.986	3.000	1.8	18.4
6 30	17 29.03	-32 52.0	1.563	2.550	7.0	21.7	6 30	17 32.86	-19 26.2	2.008	3.001	5.1	18.6
7 10	17 18.80	-32 44.9	1.595	2.537	10.9	21.9	7 10	17 25.19	-19 39.9	2.056	3.001	8.6	18.8
7 20	17 11.16	-32 29.3	1.649	2.522	14.6	22.1	7 20	17 19.30	-19 55.5	2.128	3.001	11.8	19.0
356723	2011 <i>UB</i> ₁₇₈		6 17.4	188°25	0°6/17.3	18	66216	1999 <i>CJ</i> ₄₂		6 17.4	348°17	0°7/17.3	18
5 11	18 8.97	-21 19.5	2.367	3.193	12.1	21.5	5 11	18 9.59	-20 59.7	2.022	2.855	13.6	19.1
5 21	18 4.42	-21 22.8	2.282	3.193	9.4	21.3	5 21	18 5.23	-21 3.6	1.940	2.855	10.6	18.9
5 31	17 57.97	-21 27.1	2.220	3.192	6.2	21.1	5 31	17 58.67	-21 9.1	1.881	2.855	7.0	18.7
6 10	17 50.17	-21 31.8	2.185	3.192	2.7	20.9	6 10	17 50.54	-21 15.6	1.847	2.854	3.1	18.4
6 20	17 41.74	-21 36.4	2.177	3.191	1.1	20.8	6 20	17 41.66	-21 22.3	1.839	2.854	1.3	18.3
6 30	17 33.50	-21 40.9	2.197	3.191	4.6	21.0	6 30	17 33.01	-21 29.2	1.859	2.854	5.2	18.6
7 10	17 26.28	-21 45.5	2.244	3.190	8.0	21.2	7 10	17 25.55	-21 36.5	1.905	2.853	9.0	18.8
7 20	17 20.69	-21 51.0	2.315	3.189	11.0	21.4	7 20	17 19.98	-21 44.8	1.974	2.853	12.3	19.0
214250	2005 <i>EU</i> ₂₈₇		6 17.4	343°41	5°5/16.7	17	41059	1999 <i>VC</i> ₂₆		6 17.4	264°37	0°3/17.4	18
5 11	18 8.55	-14 37.2	1.277	2.135	18.6	20.0	5 11	18 9.02	-24 17.8	2.572	3.395	11.4	19.7
5 21	18 5.45	-13 41.6	1.205	2.129	14.8	19.8	5 21	18 4.47	-24 19.4	2.469	3.378	8.9	19.5
5 31	17 59.30	-12 51.1	1.152	2.124	10.6	19.5	5 31	17 58.05	-24 19.9	2.390	3.361	5.9	19.3
6 10	17 50.92	-12 9.5	1.121	2.120	6.7	19.3	6 10	17 50.26	-24 18.4	2.337	3.344	2.6	19.0
6 20	17 41.45	-11 40.3	1.112	2.116	5.8	19.2	6 20	17 41.75	-24 14.6	2.312	3.327	1.0	18.9
6 30	17 32.35	-11 26.0	1.127	2.113	9.1	19.4	6 30	17 33.34	-24 8.3	2.315	3.309	4.4	19.1
7 10	17 24.96	-11 27.3	1.163	2.111	13.5	19.6	7 10	17 25.81	-24 0.6	2.346	3.291	7.7	19.3
7 20	17 20.24	-11 43.0	1.219	2.109	17.6	19.9	7 20	17 19.82	-23 52.5	2.401	3.273	10.7	19.5
240544	2004 <i>NC</i> ₂₇		6 17.4	4°10	2°9/17.7	17	376						

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
347696	2001 <i>VN</i> ₁₃₁		6 17.4 74°37'	1.4/17.6	17		480683	2015 <i>PS</i> ₄₃		6 17.4 291°55'	7.5/17.9	18	
5 11	18 12.25	-16 26.0	2.146	2.967	13.4	21.2	5 11	18 7.48	+ 0 45.0	2.396	3.173	13.5	20.9
5 21	18 6.96	-17 3.2	2.081	2.987	10.4	21.0	5 21	18 3.20	+ 0 59.7	2.309	3.165	11.5	20.7
5 31	17 59.64	-17 46.3	2.039	3.008	6.9	20.9	5 31	17 57.18	+ 1 0.0	2.243	3.157	9.5	20.6
6 10	17 50.91	-18 33.7	2.023	3.028	3.3	20.7	6 10	17 49.90	+ 0 43.5	2.201	3.149	7.9	20.5
6 20	17 41.59	-19 23.4	2.035	3.048	1.7	20.6	6 20	17 41.99	+ 0 9.0	2.184	3.141	7.5	20.4
6 30	17 32.58	-20 13.4	2.076	3.069	5.0	20.8	6 30	17 34.20	- 0 43.0	2.193	3.133	8.5	20.5
7 10	17 24.75	-21 2.1	2.144	3.089	8.4	21.1	7 10	17 27.27	- 1 50.2	2.228	3.125	10.4	20.6
7 20	17 18.73	-21 48.9	2.237	3.109	11.4	21.3	7 20	17 21.79	- 3 9.2	2.286	3.117	12.6	20.7
479248	2013 <i>EV</i> ₁₆		6 17.4 218°44'	3.7/17.1	18		463905	2014 <i>UR</i> ₁₁₉		6 17.4 224°55'	1.2/17.4	17	
5 11	18 8.24	-11 36.3	2.591	3.401	11.7	22.0	5 11	18 14.24	-25 45.6	1.482	2.327	17.1	21.6
5 21	18 3.66	-11 18.1	2.500	3.395	9.3	21.9	5 21	18 9.77	-25 56.6	1.405	2.325	13.4	21.3
5 31	17 57.40	-11 5.5	2.431	3.388	6.7	21.7	5 31	18 2.16	-26 5.8	1.348	2.324	9.0	21.1
6 10	17 49.96	-10 59.9	2.389	3.381	4.4	21.5	6 10	17 52.22	-26 10.6	1.315	2.322	4.1	20.8
6 20	17 41.92	-11 1.8	2.374	3.373	3.8	21.5	6 20	17 41.15	-26 9.3	1.306	2.321	1.8	20.6
6 30	17 34.02	-11 11.5	2.388	3.365	5.7	21.6	6 30	17 30.43	-26 1.6	1.323	2.319	6.6	20.9
7 10	17 26.96	-11 28.8	2.428	3.357	8.3	21.7	7 10	17 21.48	-25 49.7	1.363	2.317	11.4	21.2
7 20	17 21.28	-11 52.8	2.493	3.348	10.9	21.9	7 20	17 15.29	-25 36.5	1.425	2.315	15.5	21.4
17408	McAdams		6 17.4 190°21'	15.3/11.9	18 R		258651	2002 <i>EM</i> ₆₀		6 17.4 73°16'	5.1/17.1	18	
5 11	18 18.60	- 0 38.7	1.277	2.085	21.4	17.5	5 11	18 7.70	- 8 57.6	2.252	3.065	13.1	21.0
5 21	18 13.05	+ 2 37.2	1.215	2.085	18.8	17.3	5 21	18 3.30	- 8 23.3	2.186	3.079	10.6	20.8
5 31	18 4.26	+ 5 41.6	1.174	2.084	16.5	17.1	5 31	17 57.15	- 7 57.2	2.143	3.093	7.9	20.7
6 10	17 53.08	+ 8 20.5	1.155	2.082	15.3	17.0	6 10	17 49.83	- 7 41.0	2.124	3.107	5.7	20.6
6 20	17 40.80	+10 21.4	1.158	2.080	15.8	17.1	6 20	17 42.04	- 7 36.2	2.132	3.121	5.2	20.5
6 30	17 28.96	+11 36.9	1.183	2.077	17.7	17.2	6 30	17 34.56	- 7 42.9	2.167	3.135	6.8	20.7
7 10	17 19.02	+12 7.0	1.226	2.073	20.3	17.3	7 10	17 28.10	- 8 0.4	2.227	3.150	9.3	20.8
7 20	17 11.94	+11 57.5	1.284	2.069	22.9	17.5	7 20	17 23.20	- 8 27.2	2.311	3.164	11.7	21.0
253861	2004 <i>AW</i> ₄		6 17.4 152°19'	1.3/17.3	17		432036	2008 <i>WR</i> ₆₁		6 17.4 327°71'	4.2/15.8	18	
5 11	18 14.24	-19 42.3	1.886	2.714	14.7	21.4	5 11	18 7.05	-23 20.8	1.198	2.069	18.7	19.0
5 21	18 8.88	-19 41.2	1.810	2.721	11.4	21.2	5 21	18 5.13	-21 32.1	1.091	2.027	15.0	18.7
5 31	18 1.09	-19 42.5	1.756	2.728	7.6	20.9	5 31	17 59.72	-19 24.8	1.004	1.985	10.3	18.3
6 10	17 51.60	-19 45.6	1.727	2.734	3.5	20.7	6 10	17 51.43	-17 1.7	0.938	1.945	5.6	17.9
6 20	17 41.34	-19 50.0	1.726	2.740	1.8	20.6	6 20	17 41.37	-14 29.8	0.896	1.905	5.0	17.7
6 30	17 31.42	-19 55.6	1.751	2.745	5.7	20.9	6 30	17 31.20	-12 0.5	0.877	1.867	10.3	17.8
7 10	17 22.87	-20 2.8	1.803	2.749	9.6	21.1	7 10	17 22.69	- 9 46.2	0.880	1.831	16.2	18.0
7 20	17 16.44	-20 12.1	1.879	2.753	13.1	21.3	7 20	17 17.19	- 7 56.0	0.901	1.797	21.7	18.2
275887	2001 <i>TO</i> ₃₅		6 17.4 248°19'	4.1/17.6	18		402139	2004 <i>QN</i> ₃		6 17.4 294°93'	7.5/16.4	18	
5 11	18 15.50	-33 32.1	1.961	2.780	14.6	20.7	5 11	18 11.32	-10 51.5	1.381	2.223	18.3	21.0
5 21	18 10.36	-34 0.4	1.866	2.766	11.7	20.5	5 21	18 7.97	- 9 52.6	1.275	2.186	15.2	20.7
5 31	18 2.41	-34 22.2	1.792	2.753	8.4	20.2	5 31	18 1.42	- 8 59.2	1.187	2.149	11.5	20.3
6 10	17 52.30	-34 33.5	1.743	2.738	5.3	20.0	6 10	17 52.15	- 8 16.3	1.121	2.111	8.3	20.0
6 20	17 41.06	-34 31.3	1.720	2.723	4.3	19.9	6 20	17 41.10	- 7 48.8	1.077	2.073	7.8	19.9
6 30	17 29.97	-34 14.8	1.724	2.708	6.8	20.1	6 30	17 29.72	- 7 40.7	1.057	2.035	10.9	19.9
7 10	17 20.33	-33 46.4	1.754	2.693	10.3	20.2	7 10	17 19.60	- 7 53.5	1.059	1.996	15.6	20.1
7 20	17 13.09	-33 10.2	1.806	2.677	13.7	20.4	7 20	17 12.07	- 8 26.1	1.080	1.958	20.3	20.2
267406	2002 <i>AN</i> ₁₀₇		6 17.4 252°00'	1.3/17.4	18		69780	1998 <i>QG</i> ₅₅		6 17.4 247°52'	4.3/17.6	18	
5 11	18 11.88	-19 16.1	1.940	2.770	14.3	20.9	5 11	18 15.81	-36 22.1	2.601	3.397	12.0	20.2
5 21	18 7.25	-19 22.8	1.845	2.757	11.2	20.6	5 21	18 10.05	-36 51.7	2.492	3.376	9.7	20.0
5 31	18 0.20	-19 33.0	1.772	2.744	7.5	20.4	5 31	18 1.94	-37 14.5	2.406	3.354	7.3	19.8
6 10	17 51.31	-19 46.1	1.724	2.731	3.5	20.1	6 10	17 52.07	-37 27.0	2.346	3.332	5.0	19.6
6 20	17 41.44	-20 1.0	1.703	2.717	1.7	19.9	6 20	17 41.23	-37 26.6	2.314	3.308	4.4	19.5
6 30	17 31.65	-20 17.4	1.709	2.703	5.7	20.2	6 30	17 30.44	-37 12.4	2.310	3.284	6.1	19.6
7 10	17 23.02	-20 35.0	1.741	2.688	9.8	20.4	7 10	17 20.74	-36 46.2	2.334	3.260	8.7	19.7
7 20	17 16.42	-20 54.0	1.796	2.673	13.4	20.6	7 20	17 12.94	-36 11.1	2.382	3.234	11.4	19.8
22136	Jamesharrison		6 17.4 128°99'	0.2/17.4	18		185679	1995 <i>UK</i> ₃₆		6 17.4 135°59'	2.7/17.4	17	
5 11	18 15.07	-23 49.2	1.599	2.437	16.4	18.5	5 11	18 12.61	-31 50.7	2.890	3.694	10.7	22.2
5 21	18 9.94	-23 35.9	1.528	2.445	12.7	18.3	5 21	18 6.99	-32 24.9	2.814	3.707	8.4	22.1
5 31	18 1.98	-23 20.8	1.477	2.452	8.4	18.1	5 31	17 59.58	-32 54.9	2.761	3.720	5.9	21.9
6 10	17 52.03	-23 3.1	1.451	2.459	3.7	17.8	6 10	17 50.91	-33 18.3	2.736	3.732	3.6	21.8
6 20	17 41.23	-22 42.8	1.450	2.466	1.3	17.7	6 20	17 41.69	-33 33.4	2.740	3.744	2.8	21.8
6 30	17 30.91	-22 21.1	1.476	2.472	6.2	18.0	6 30	17 32.69	-33 39.8	2.773	3.755	4.7	21.9
7 10	17 22.29	-22 0.1	1.527	2.478	10.6	18.3	7 10	17 24.68	-33 38.3	2.834	3.766	7.1	22.1
7 20	17 16.19	-21 42.3	1.600	2.483	14.5	18.5	7 20	17 18.24	-33 30.8	2.920	3.776	9.4	22.2
95939	Thagnesland		6 17.4 283°54'	3.1/17.2	17		53208	1999 <i>CE</i> ₇₅		6 17.4 65°29'	5.2/16.8	18	
5 11	18 9.89	-16 21.5	1.768	2.605	15.2	20.4	5 11	18 9.98	-11 13.4	1.919	2.742	14.7	18.7
5 21	18 5.82	-16 3.0	1.679	2.594	12.0	20.1	5 21	18 5.25	-10 21.0	1.863	2.763	11.7	18.6
5 31	17 59.29	-15 48.8	1.612	2.583	8.2	19.9	5 31	17 58.49	- 9 35.9	1.828	2.785	8.5	18.4
6 10	17 50.92	-15 39.9	1.569	2.572	4.5	19.6	6 10	17 50.42	- 9 0.7	1.819	2.807	5.9	18.3
6 20	17 41.60	-15 37.1	1.551	2.561	3.3	19.5	6 20	17 41.89	- 8 37.4	1.835	2.829	5.4	18.3
6 30	17 32.45	-15 40.9	1.560	2.550	6.6	19.7	6 30	17 33.82	- 8 26.9	1.878	2.851	7.4	18.5
7 10	17 24.55	-15 51.5	1.593	2.539	10.6	19.9	7 10	17 27.02	- 8 29.0	1.946	2.872	10.2	18.7
7 20	17 18.74	-16 8.6	1.649	2.528	14.3	20.1	7 20	17 22.08	- 8 42.3	2.036	2.894	12.9	18.9
392823	2012 <i>TP</i> ₂₉₇		6 17.4 20										

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
264293	1998 <i>ST</i> ₉₆		6 17.4 273°45	1.8/17.3	18		126579	2002 <i>CE</i> ₁₁₉		6 17.4 137°59	0.7/17.4	17	
5 11	18 12.45	-19 21.4	1.739	2.575	15.4	21.6	5 11	18 12.42	-21 41.2	1.909	2.741	14.4	20.4
5 21	18 8.10	-19 12.8	1.637	2.552	12.1	21.3	5 21	18 7.51	-21 38.2	1.833	2.746	11.2	20.2
5 31	18 1.03	-19 6.7	1.556	2.529	8.2	21.0	5 31	18 0.25	-21 35.8	1.778	2.751	7.4	20.0
6 10	17 51.79	-19 2.9	1.499	2.505	3.9	20.7	6 10	17 51.32	-21 33.5	1.749	2.756	3.3	19.7
6 20	17 41.32	-19 1.5	1.468	2.481	2.2	20.6	6 20	17 41.64	-21 30.7	1.746	2.761	1.3	19.6
6 30	17 30.84	-19 2.6	1.463	2.457	6.5	20.8	6 30	17 32.29	-21 27.8	1.771	2.766	5.4	19.9
7 10	17 21.60	-19 7.0	1.484	2.432	11.0	21.0	7 10	17 24.27	-21 25.5	1.822	2.770	9.4	20.1
7 20	17 14.61	-19 15.4	1.526	2.407	15.2	21.2	7 20	17 18.33	-21 25.0	1.896	2.774	12.8	20.4
273758	2007 <i>ET</i> ₁₄₅		6 17.4 42°15	3.4/17.3	17		253930	2004 <i>CO</i> ₇₈		6 17.4 132°51	2.5/17.6	17	
5 11	18 10.49	-15 18.5	1.648	2.487	16.0	20.7	5 11	18 17.13	-29 58.7	1.888	2.711	14.9	22.1
5 21	18 6.30	-15 4.0	1.574	2.489	12.6	20.5	5 21	18 11.26	-30 13.0	1.817	2.723	11.7	21.9
5 31	17 59.58	-14 55.7	1.522	2.492	8.7	20.3	5 31	18 2.75	-30 21.9	1.768	2.735	8.0	21.7
6 10	17 51.04	-14 54.6	1.492	2.494	4.9	20.1	6 10	17 52.40	-30 22.6	1.744	2.746	4.2	21.5
6 20	17 41.65	-15 0.9	1.488	2.497	3.6	20.0	6 20	17 41.28	-30 13.5	1.746	2.757	2.7	21.4
6 30	17 32.58	-15 14.7	1.510	2.500	6.8	20.2	6 30	17 30.64	-29 55.0	1.776	2.767	5.9	21.6
7 10	17 24.93	-15 35.4	1.556	2.503	10.8	20.4	7 10	17 21.60	-29 29.7	1.833	2.777	9.6	21.9
7 20	17 19.49	-16 2.1	1.625	2.506	14.4	20.7	7 20	17 14.94	-29 1.1	1.912	2.786	12.9	22.1
244845	2003 <i>UM</i> ₁₂₄		6 17.4 310°27	2.1/17.4	17		219662	2001 <i>VM</i> ₁₂		6 17.4 257°09	3.6/17.7	18	
5 11	18 11.87	-27 14.6	1.855	2.689	14.6	20.5	5 11	18 15.40	-32 51.3	1.921	2.742	14.7	20.0
5 21	18 7.43	-27 45.7	1.773	2.687	11.4	20.3	5 21	18 10.34	-33 6.4	1.823	2.726	11.8	19.8
5 31	18 0.39	-28 15.2	1.712	2.684	7.7	20.1	5 31	18 2.45	-33 14.5	1.747	2.710	8.4	19.6
6 10	17 51.43	-28 40.3	1.676	2.682	3.9	19.8	6 10	17 52.41	-33 11.9	1.695	2.693	5.0	19.3
6 20	17 41.50	-28 58.3	1.667	2.679	2.4	19.7	6 20	17 41.23	-32 56.3	1.669	2.676	3.8	19.2
6 30	17 31.80	-29 8.4	1.684	2.677	5.9	19.9	6 30	17 30.22	-32 27.6	1.671	2.658	6.5	19.3
7 10	17 23.48	-29 11.2	1.726	2.675	9.8	20.2	7 10	17 20.67	-31 48.6	1.697	2.640	10.3	19.5
7 20	17 17.39	-29 9.0	1.792	2.672	13.3	20.4	7 20	17 13.52	-31 3.7	1.747	2.622	13.9	19.7
400089	2006 <i>SH</i> ₃₈₅		6 17.4 84°01	0.3/17.4	18		471494	2011 <i>WW</i> ₁₁₁		6 17.4 198°22	0.1/17.4	18	
5 11	18 10.97	-20 15.9	2.173	2.999	13.1	20.8	5 11	18 10.68	-24 47.7	2.856	3.670	10.6	21.4
5 21	18 6.12	-20 46.8	2.099	3.009	10.1	20.7	5 21	18 5.42	-24 22.2	2.763	3.667	8.2	21.2
5 31	17 59.20	-21 20.8	2.048	3.020	6.7	20.5	5 31	17 58.51	-23 53.9	2.694	3.663	5.4	21.0
6 10	17 50.81	-21 56.4	2.022	3.030	2.9	20.2	6 10	17 50.49	-23 22.8	2.652	3.659	2.4	20.8
6 20	17 41.75	-22 31.8	2.025	3.040	1.1	20.1	6 20	17 41.96	-22 49.3	2.640	3.655	0.9	20.7
6 30	17 32.93	-23 5.4	2.055	3.050	4.8	20.4	6 30	17 33.66	-22 14.7	2.657	3.650	4.0	20.9
7 10	17 25.24	-23 36.8	2.113	3.060	8.3	20.6	7 10	17 26.27	-21 40.5	2.703	3.645	7.0	21.1
7 20	17 19.35	-24 6.0	2.195	3.070	11.4	20.8	7 20	17 20.30	-21 8.4	2.774	3.639	9.6	21.3
66364	1999 <i>JH</i> ₆₂		6 17.4 226°88	5.2/16.4	18		397793	2008 <i>KN</i> ₁₅		6 17.4 155°09	3.8/17.5	18	
5 11	18 18.51	-31 23.1	1.876	2.694	15.1	19.0	5 11	18 7.58	-10 42.8	2.482	3.294	12.1	20.9
5 21	18 13.02	-33 1.9	1.790	2.690	12.1	18.7	5 21	18 3.22	-10 37.6	2.399	3.295	9.6	20.7
5 31	18 4.43	-34 40.7	1.728	2.686	8.8	18.5	5 31	17 57.18	-10 39.6	2.340	3.296	7.0	20.6
6 10	17 53.34	-36 12.4	1.691	2.682	5.9	18.3	6 10	17 49.94	-10 49.8	2.305	3.296	4.6	20.4
6 20	17 40.78	-37 29.9	1.681	2.677	5.4	18.3	6 20	17 42.15	-11 8.3	2.298	3.297	3.9	20.4
6 30	17 28.15	-38 28.8	1.699	2.672	7.9	18.4	6 30	17 34.52	-11 34.8	2.319	3.298	5.7	20.5
7 10	17 16.94	-39 8.5	1.743	2.668	11.2	18.6	7 10	17 27.77	-12 8.2	2.367	3.299	8.3	20.6
7 20	17 8.31	-39 31.8	1.809	2.662	14.4	18.8	7 20	17 22.46	-12 47.1	2.439	3.299	10.9	20.8
468148	2014 <i>WF</i> ₂₈		6 17.4 180°71	2.0/17.3	17		381873	2010 <i>AP</i> ₃₆		6 17.4 155°37	5.2/18.2	18	
5 11	18 15.98	-26 23.1	1.689	2.522	15.9	21.9	5 11	18 17.41	-38 35.7	2.190	2.990	13.9	21.0
5 21	18 10.85	-26 59.8	1.610	2.523	12.4	21.4	5 21	18 11.43	-38 58.8	2.112	2.995	11.3	20.8
5 31	18 2.78	-27 35.9	1.552	2.523	8.4	21.7	5 31	18 2.86	-39 11.5	2.056	3.001	8.5	20.6
6 10	17 52.51	-28 7.9	1.518	2.524	4.1	21.2	6 10	17 52.45	-39 10.0	2.024	3.005	6.0	20.5
6 20	17 41.13	-28 32.5	1.510	2.523	2.4	21.1	6 20	17 41.28	-38 52.1	2.019	3.010	5.2	20.5
6 30	17 30.02	-28 48.1	1.530	2.523	6.4	21.3	6 30	17 30.54	-38 18.1	2.041	3.014	6.8	20.6
7 10	17 20.50	-28 55.5	1.574	2.521	10.6	21.6	7 10	17 21.36	-37 31.5	2.089	3.017	9.5	20.7
7 20	17 13.53	-28 57.3	1.641	2.520	14.4	21.8	7 20	17 14.50	-36 37.1	2.162	3.020	12.2	20.9
358505	2007 <i>RR</i> ₁₇₈		6 17.4 355°61	5.0/17.2	17		139832	2001 <i>RL</i> ₃₅		6 17.4 267°79	0.6/17.5	18	
5 11	18 12.45	-30 4.4	1.182	2.043	19.6	19.9	5 11	18 10.95	-25 35.1	2.258	3.083	12.7	20.6
5 21	18 9.40	-31 8.1	1.114	2.040	15.6	19.6	5 21	18 6.31	-25 33.2	2.155	3.065	9.9	20.3
5 31	18 2.50	-32 9.4	1.064	2.038	11.0	19.4	5 31	17 59.49	-25 29.0	2.075	3.046	6.6	20.1
6 10	17 52.59	-33 1.4	1.035	2.037	6.5	19.1	6 10	17 51.04	-25 21.3	2.020	3.027	3.0	19.8
6 20	17 41.09	-33 37.8	1.029	2.036	5.3	19.0	6 20	17 41.74	-25 9.7	1.993	3.008	1.2	19.7
6 30	17 29.95	-33 55.4	1.045	2.036	8.9	19.2	6 30	17 32.54	-24 54.3	1.995	2.989	5.0	19.9
7 10	17 21.03	-33 56.1	1.083	2.037	13.6	19.5	7 10	17 24.38	-24 36.6	2.022	2.970	8.6	20.1
7 20	17 15.58	-33 44.8	1.140	2.038	17.9	19.8	7 20	17 18.03	-24 18.4	2.074	2.950	12.0	20.3
19182	Pitz		6 17.4 176°38	0.2/17.4	18		93161	2000 <i>SX</i> ₈₇		6 17.4 251°11	5.0/17.0	18	
5 11	18 12.36	-23 16.5	2.051	2.879	13.7	19.2	5 11	18 15.61	-33 18.4	1.904	2.724	14.8	19.8
5 21	18 7.35	-23 10.2	1.969	2.881	10.6	19.0	5 21	18 10.67	-34 24.3	1.816	2.716	11.9	19.6
5 31	18 0.09	-23 3.1	1.909	2.882	7.0	18.8	5 31	18 2.80	-35 26.5	1.749	2.708	8.7	19.4
6 10	17 51.23	-22 54.4	1.875	2.882	3.1	18.6	6 10	17 52.62	-36 19.5	1.708	2.699	5.9	19.2
6 20	17 41.63	-22 43.8	1.868	2.883	1.1	18.4	6 20	17 41.16	-36 58.4	1.692	2.690	5.2	19.1
6 30	17 32.32	-22 31.8	1.888	2.883	5.2	18.7	6 30	17 29.77	-37 20.4	1.704	2.681	7.5	19.2
7 10	17 24.26	-22 19.8	1.935	2.883	9.0	18.9	7 10	17 19.82	-37 26.5	1.740	2.672	10.8	19.4
7 20	17 18.16	-22 9.2	2.006	2.882	12.3	19.1	7 20	17 12.36	-37 20.1	1.799	2.662	14.0	19.6
91016	1998 <i>DS</i> ₁₅		6 17.4 102°60	1.4/17.3	18		480608	2015 <i>MG</i> ₁₀					

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
251455	2008 <i>CM</i> ₁₄₁		6 17.4 346°61	1°5/17.6	18		311205	2004 <i>XN</i> ₁₃₄		6 17.4 244°31	3°0/17.7	17	
5 11	18 8.48	-27 37.1	1.839	2.680	14.5	19.6	5 11	18 16.58	-30 38.8	1.597	2.430	16.7	20.7
5 21	18 4.79	-27 37.9	1.756	2.674	11.3	19.4	5 21	18 11.69	-30 47.8	1.508	2.420	13.2	20.5
5 31	17 58.63	-27 34.8	1.695	2.669	7.6	19.1	5 31	18 3.57	-30 50.1	1.440	2.410	9.2	20.2
6 10	17 50.69	-27 26.2	1.657	2.664	3.6	18.9	6 10	17 53.01	-30 42.3	1.396	2.399	4.9	19.9
6 20	17 41.90	-27 11.5	1.646	2.660	1.8	18.7	6 20	17 41.18	-30 22.0	1.376	2.387	3.2	19.8
6 30	17 33.39	-26 51.1	1.660	2.656	5.6	19.0	6 30	17 29.63	-29 49.7	1.383	2.376	6.9	20.0
7 10	17 26.24	-26 27.2	1.700	2.653	9.6	19.2	7 10	17 19.83	-29 9.0	1.414	2.364	11.4	20.2
7 20	17 21.22	-26 2.3	1.762	2.651	13.1	19.4	7 20	17 12.84	-28 24.8	1.468	2.352	15.5	20.4
64677	2001 <i>XG</i> ₆₈		6 17.4 258°01	7°0/18.4	18		414148	2007 <i>VE</i> ₃₁₃		6 17.4 119°40	0°3/17.4	17	
5 11	18 13.51	-2 5.6	2.037	2.822	15.2	18.7	5 11	18 16.52	-24 24.5	1.729	2.560	15.7	22.6
5 21	18 8.37	-2 12.6	1.937	2.805	12.8	18.5	5 21	18 10.86	-24 25.3	1.662	2.575	12.1	22.4
5 31	18 0.93	-2 36.1	1.857	2.788	10.1	18.3	5 31	18 2.53	-24 24.5	1.617	2.589	8.0	22.2
6 10	17 51.73	-3 18.6	1.802	2.770	7.8	18.1	6 10	17 52.37	-24 20.7	1.596	2.604	3.5	21.9
6 20	17 41.51	-4 20.6	1.773	2.752	7.0	18.1	6 20	17 41.46	-24 13.1	1.602	2.617	1.2	21.8
6 30	17 31.28	-5 40.3	1.772	2.734	8.5	18.1	6 30	17 31.06	-24 2.2	1.635	2.630	5.7	22.1
7 10	17 22.05	-7 14.2	1.797	2.715	11.3	18.2	7 10	17 22.29	-23 49.8	1.694	2.643	9.9	22.4
7 20	17 14.63	-8 57.5	1.846	2.696	14.3	18.4	7 20	17 15.93	-23 37.9	1.776	2.654	13.5	22.6
253701	2003 <i>UR</i> ₂₇₉		6 17.4 211°30	3°7/17.7	17		432721	2011 <i>CK</i> ₉₁		6 17.4 171°87	0°5/17.5	17	
5 11	18 17.89	-32 48.7	1.942	2.758	14.8	21.7	5 11	18 14.22	-24 50.5	2.010	2.836	14.0	22.9
5 21	18 12.16	-33 10.5	1.851	2.751	11.8	21.5	5 21	18 8.90	-24 51.8	1.929	2.839	10.9	22.7
5 31	18 3.59	-33 25.6	1.783	2.744	8.4	21.2	5 31	18 1.20	-24 51.3	1.870	2.841	7.2	22.5
6 10	17 52.89	-33 30.2	1.739	2.736	5.0	21.0	6 10	17 51.81	-24 47.9	1.836	2.843	3.2	22.2
6 20	17 41.12	-33 21.7	1.722	2.728	3.9	20.9	6 20	17 41.64	-24 40.6	1.829	2.845	1.2	22.1
6 30	17 29.62	-32 59.7	1.733	2.719	6.5	21.1	6 30	17 31.77	-24 29.8	1.851	2.845	5.3	22.3
7 10	17 19.66	-32 27.1	1.769	2.709	10.2	21.3	7 10	17 23.23	-24 16.9	1.899	2.846	9.1	22.6
7 20	17 12.14	-31 48.2	1.829	2.699	13.6	21.5	7 20	17 16.77	-24 4.0	1.970	2.846	12.5	22.8
468063	2013 <i>SR</i> ₃₀		6 17.4 314°53	0°5/17.4	17		141548	2002 <i>GW</i> ₄₆		6 17.4 222°13	1°3/17.5	18	
5 11	18 9.23	-23 27.0	1.320	2.181	17.9	21.1	5 11	18 12.52	-26 10.8	1.914	2.746	14.4	21.2
5 21	18 6.53	-23 41.3	1.229	2.158	14.1	20.8	5 21	18 7.83	-26 25.9	1.831	2.744	11.2	21.0
5 31	18 0.50	-23 57.3	1.157	2.137	9.5	20.5	5 31	18 0.64	-26 39.2	1.769	2.741	7.5	20.8
6 10	17 51.78	-24 12.9	1.106	2.115	4.2	20.1	6 10	17 51.62	-26 48.6	1.732	2.738	3.5	20.5
6 20	17 41.46	-24 26.1	1.079	2.095	1.6	19.9	6 20	17 41.70	-26 52.6	1.721	2.735	1.7	20.4
6 30	17 31.14	-24 35.6	1.076	2.075	7.3	20.2	6 30	17 32.02	-26 50.9	1.738	2.732	5.5	20.6
7 10	17 22.46	-24 42.0	1.095	2.055	12.7	20.4	7 10	17 23.69	-26 44.7	1.780	2.729	9.5	20.9
7 20	17 16.68	-24 47.2	1.133	2.037	17.6	20.6	7 20	17 17.51	-26 36.0	1.846	2.726	13.0	21.1
362009	2008 <i>VY</i> ₆₉		6 17.4 194°34	1°2/17.4	16		421648	2014 <i>OE</i> ₃₃₇		6 17.4 345°54	6°1/17.4	17	
5 11	18 15.97	-24 56.8	1.472	2.315	17.4	22.4	5 11	18 7.10	-31 30.7	0.950	1.832	21.5	20.4
5 21	18 11.20	-25 18.5	1.395	2.314	13.6	22.1	5 21	18 6.10	-32 26.5	0.884	1.821	17.3	20.0
5 31	18 3.21	-25 40.0	1.338	2.313	9.1	21.9	5 31	18 0.83	-33 17.0	0.833	1.812	12.4	19.7
6 10	17 52.79	-25 58.4	1.304	2.312	4.1	21.6	6 10	17 52.10	-33 54.8	0.802	1.804	7.7	19.5
6 20	17 41.16	-26 11.0	1.295	2.310	1.8	21.4	6 20	17 41.49	-34 13.3	0.790	1.797	6.3	19.3
6 30	17 29.84	-26 16.9	1.312	2.308	6.7	21.7	6 30	17 31.22	-34 9.6	0.798	1.792	10.1	19.5
7 10	17 20.32	-26 17.3	1.353	2.306	11.5	22.0	7 10	17 23.50	-33 47.1	0.825	1.789	15.3	19.8
7 20	17 13.62	-26 14.9	1.416	2.303	15.8	22.2	7 20	17 19.70	-33 12.8	0.869	1.787	20.1	20.1
391866	2008 <i>TV</i> ₆₅		6 17.4 268°30	1°9/17.2	18		187327	2005 <i>UX</i> ₇₈		6 17.4 185°73	1°5/17.4	18	
5 11	18 11.81	-19 14.6	2.058	2.884	13.7	22.1	5 11	18 10.43	-26 28.3	2.515	3.335	11.7	20.2
5 21	18 7.17	-18 56.1	1.951	2.861	10.8	21.8	5 21	18 5.65	-26 58.8	2.429	3.335	9.1	20.1
5 31	18 0.19	-18 38.6	1.866	2.837	7.3	21.6	5 31	17 58.93	-27 28.3	2.366	3.335	6.1	19.9
6 10	17 51.42	-18 22.6	1.806	2.812	3.6	21.3	6 10	17 50.82	-27 54.8	2.329	3.335	3.0	19.7
6 20	17 41.65	-18 8.5	1.774	2.787	2.2	21.1	6 20	17 42.01	-28 16.5	2.321	3.334	1.7	19.6
6 30	17 31.89	-17 57.1	1.769	2.761	5.8	21.3	6 30	17 33.35	-28 32.7	2.342	3.333	4.6	19.8
7 10	17 23.19	-17 49.6	1.791	2.735	9.8	21.5	7 10	17 25.67	-28 43.5	2.389	3.333	7.7	20.0
7 20	17 16.38	-17 46.8	1.835	2.708	13.4	21.7	7 20	17 19.62	-28 50.1	2.461	3.332	10.5	20.1
424690	2008 <i>RD</i> ₁₃₆		6 17.4 353°86	11°0/18.9	18		504054	2005 <i>XR</i> ₄₂		6 17.4 213°54	0°6/17.5	17	
5 11	18 15.94	-46 39.7	1.439	2.250	19.3	19.8	5 11	18 14.10	-25 39.9	2.205	3.026	13.1	23.1
5 21	18 12.30	-47 39.4	1.370	2.246	16.6	19.6	5 21	18 8.71	-25 35.1	2.111	3.018	10.2	22.9
5 31	18 4.48	-48 20.5	1.318	2.242	13.9	19.4	5 31	18 1.06	-25 27.7	2.040	3.011	6.8	22.7
6 10	17 53.48	-48 34.0	1.286	2.240	11.8	19.3	6 10	17 51.77	-25 16.5	1.995	3.002	3.0	22.4
6 20	17 40.99	-48 14.0	1.275	2.238	11.0	19.3	6 20	17 41.68	-25 0.8	1.978	2.993	1.2	22.2
6 30	17 29.17	-47 20.1	1.286	2.237	12.2	19.3	6 30	17 31.79	-24 41.4	1.990	2.984	5.0	22.5
7 10	17 19.96	-45 58.8	1.319	2.237	14.6	19.5	7 10	17 23.08	-24 19.7	2.028	2.973	8.7	22.7
7 20	17 14.51	-44 20.2	1.371	2.238	17.4	19.6	7 20	17 16.28	-23 58.1	2.091	2.962	12.0	22.9
66826	1999 <i>UX</i> ₃₆		6 17.4 53°57	8°3/16.9	18	R	217389	2005 <i>BS</i> ₂₆		6 17.4 73°56	3°6/17.9	18	
5 11	18 9.05	-4 59.7	1.687	2.504	16.6	18.8	5 11	18 14.79	-32 59.3	1.856	2.680	15.0	20.4
5 21	18 4.95	-3 56.2	1.625	2.514	13.8	18.6	5 21	18 9.54	-33 15.1	1.792	2.696	11.9	20.2
5 31	17 58.57	-3 5.5	1.583	2.523	10.9	18.5	5 31	18 1.67	-33 23.2	1.749	2.713	8.3	20.1
6 10	17 50.63	-2 31.8	1.564	2.533	8.8	18.4	6 10	17 52.00	-33 20.5	1.731	2.729	4.9	19.9
6 20	17 42.02	-2 18.2	1.569	2.543	8.4	18.4	6 20	17 41.64	-33 5.5	1.739	2.745	3.7	19.8
6 30	17 33.80	-2 25.5	1.599	2.553	10.0	18.5	6 30	17 31.82	-32 39.1	1.773	2.761	6.2	20.0
7 10	17 26.92	-2 52.1	1.651	2.563	12.5	18.7	7 10	17 23.66	-32 4.3	1.834	2.777	9.6	20.3
7 20	17 22.06	-3 34.6	1.724	2.574	15.2	18.9	7 20	17 17.88	-31 25.3	1.917	2.794	12.7	20.5
99042	2001 <i>EW</i> ₅		6 17.4 34°03	5°5/17.5	17		3715						

EPHEMERIDES

6 17.4

6 17.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
336663	2009 YH ₂	6 17.4 306°93		1°0/17.3 17			499692	2010 WO ₇₃	6 17.4 241°74		0°6/17.5 17		
5 11	18 10.61	-22 31.8	1.655	2.499	15.7	20.7	5 11	18 15.04	-24 8.4	1.900	2.727	14.6	22.6
5 21	18 6.66	-22 7.8	1.569	2.489	12.2	20.5	5 21	18 9.97	-24 21.9	1.801	2.712	11.5	22.3
5 31	18 0.03	-21 42.2	1.504	2.480	8.2	20.2	5 31	18 2.23	-24 35.5	1.725	2.697	7.7	22.1
6 10	17 51.41	-21 15.2	1.462	2.470	3.7	19.9	6 10	17 52.42	-24 47.1	1.673	2.680	3.4	21.8
6 20	17 41.82	-20 47.4	1.446	2.461	1.7	19.8	6 20	17 41.48	-24 55.1	1.648	2.663	1.3	21.6
6 30	17 32.47	-20 20.6	1.456	2.452	6.2	20.0	6 30	17 30.59	-24 58.7	1.651	2.646	5.8	21.9
7 10	17 24.57	-19 56.7	1.491	2.444	10.7	20.3	7 10	17 20.98	-24 58.8	1.680	2.628	10.1	22.1
7 20	17 18.98	-19 37.9	1.548	2.435	14.6	20.5	7 20	17 13.57	-24 57.2	1.732	2.609	13.9	22.3
251533	2008 JQ ₁₇	6 17.4 121°87		4°1/17.3 18			113359	2002 RY ₂₄₅	6 17.4 33°50		1°8/17.4 17		
5 11	18 7.47	-10 16.2	2.458	3.269	12.2	20.7	5 11	18 10.85	-19 7.4	1.223	2.084	19.0	19.9
5 21	18 3.16	-9 59.5	2.378	3.272	9.8	20.5	5 21	18 7.38	-19 7.7	1.165	2.094	14.8	19.7
5 31	17 57.18	-9 49.9	2.321	3.275	7.1	20.3	5 31	18 0.69	-19 12.9	1.126	2.104	9.9	19.4
6 10	17 50.02	-9 48.7	2.290	3.278	4.8	20.2	6 10	17 51.73	-19 22.5	1.108	2.115	4.6	19.1
6 20	17 42.33	-9 56.5	2.285	3.281	4.2	20.2	6 20	17 41.77	-19 35.7	1.113	2.127	2.3	19.0
6 30	17 34.84	-10 13.2	2.308	3.284	6.0	20.3	6 30	17 32.37	-19 51.8	1.142	2.140	7.2	19.4
7 10	17 28.24	-10 38.1	2.358	3.287	8.5	20.4	7 10	17 24.92	-20 10.5	1.194	2.153	12.1	19.7
7 20	17 23.07	-11 10.0	2.432	3.289	11.1	20.6	7 20	17 20.32	-20 31.7	1.266	2.167	16.3	20.0
399839	2005 UT ₂₉	6 17.4 202°57		7°1/15.3 18			118987	2000 XZ ₄₁	6 17.4 231°97		6°5/17.2 18		
5 11	18 8.20	-2 13.8	2.741	3.520	11.9	20.7	5 11	18 16.12	-43 32.7	2.739	3.513	12.0	20.3
5 21	18 3.52	-0 53.4	2.660	3.517	10.1	20.6	5 21	18 10.49	-44 33.2	2.647	3.504	10.2	20.2
5 31	17 57.32	+0 18.8	2.602	3.514	8.4	20.5	5 31	18 2.41	-45 24.7	2.578	3.494	8.3	20.0
6 10	17 50.07	+1 19.4	2.569	3.510	7.3	20.4	6 10	17 52.45	-46 2.5	2.534	3.484	6.9	19.9
6 20	17 42.33	+2 5.5	2.563	3.507	7.2	20.4	6 20	17 41.48	-46 23.2	2.516	3.474	6.6	19.9
6 30	17 34.75	+2 35.1	2.584	3.503	8.3	20.5	6 30	17 30.59	-46 25.1	2.525	3.463	7.6	20.0
7 10	17 27.96	+2 48.0	2.630	3.498	10.0	20.6	7 10	17 20.89	-46 9.9	2.560	3.452	9.4	20.1
7 20	17 22.47	+2 45.5	2.698	3.494	11.8	20.7	7 20	17 13.21	-45 41.0	2.617	3.441	11.4	20.2
435286	2007 TM ₃₇₇	6 17.4 316°36		6°5/18.1 18			506971	2008 SD ₃₁	6 17.4 217°97		1°5/17.2 18		
5 11	18 8.60	-6 46.9	1.590	2.417	17.0	20.1	5 11	18 12.08	-19 58.6	2.402	3.220	12.2	22.3
5 21	18 5.39	-6 48.1	1.487	2.387	14.1	19.9	5 21	18 6.90	-19 37.5	2.305	3.211	9.5	22.1
5 31	17 59.46	-7 5.6	1.403	2.358	10.8	19.6	5 31	17 59.76	-19 16.5	2.232	3.201	6.4	21.9
6 10	17 51.32	-7 42.5	1.341	2.328	7.7	19.3	6 10	17 51.20	-18 56.2	2.186	3.191	3.1	21.6
6 20	17 41.81	-8 39.9	1.303	2.300	6.6	19.2	6 20	17 41.94	-18 36.8	2.168	3.180	1.8	21.5
6 30	17 32.11	-9 56.4	1.290	2.271	8.9	19.2	6 30	17 32.85	-18 19.5	2.178	3.169	5.0	21.7
7 10	17 23.52	-11 28.2	1.301	2.244	12.8	19.4	7 10	17 24.75	-18 5.2	2.216	3.157	8.3	21.9
7 20	17 17.11	-13 10.2	1.334	2.217	16.8	19.5	7 20	17 18.29	-17 54.9	2.279	3.144	11.4	22.1
291160	2006 AE	6 17.4 154°24		1°0/17.3 17			200492	2000 YZ ₆₇	6 17.4 78°22		11°6/19.5 18		
5 11	18 13.06	-22 11.7	1.999	2.827	14.0	21.2	5 11	18 10.84	+9 4.5	1.929	2.675	17.2	19.6
5 21	18 7.90	-21 46.0	1.920	2.831	10.8	21.0	5 21	18 6.08	+9 38.0	1.868	2.686	15.3	19.4
5 31	18 0.49	-21 19.0	1.863	2.835	7.2	20.7	5 31	17 59.23	+9 48.8	1.825	2.696	13.5	19.3
6 10	17 51.50	-20 51.0	1.832	2.839	3.2	20.5	6 10	17 50.95	+9 32.6	1.803	2.707	12.0	19.3
6 20	17 41.83	-20 22.7	1.829	2.843	1.5	20.4	6 20	17 42.06	+8 47.9	1.804	2.717	11.6	19.3
6 30	17 32.52	-19 55.5	1.853	2.846	5.4	20.7	6 30	17 33.51	+7 35.7	1.828	2.728	12.2	19.3
7 10	17 24.52	-19 31.3	1.903	2.849	9.2	20.9	7 10	17 26.17	+6 0.5	1.874	2.738	13.6	19.4
7 20	17 18.51	-19 11.6	1.978	2.852	12.5	21.1	7 20	17 20.69	+4 8.6	1.943	2.748	15.4	19.6
33367	1999 BD ₈	6 17.4 11°74		4°8/18.0 18			145955	1999 XE ₂₂₇	6 17.4 295°99		0°3/17.5 18		
5 11	18 13.18	-33 14.9	1.163	2.021	20.0	18.3	5 11	18 11.70	-23 58.6	1.482	2.331	16.9	20.6
5 21	18 9.90	-33 30.3	1.099	2.023	16.0	18.0	5 21	18 8.16	-24 0.7	1.384	2.307	13.3	20.3
5 31	18 2.74	-33 34.8	1.052	2.025	11.3	17.7	5 31	18 1.47	-24 2.3	1.307	2.284	9.0	20.0
6 10	17 52.72	-33 23.7	1.026	2.027	6.7	17.5	6 10	17 52.25	-24 1.8	1.252	2.260	4.0	19.6
6 20	17 41.40	-32 54.2	1.022	2.031	5.0	17.4	6 20	17 41.54	-23 57.8	1.221	2.237	1.4	19.4
6 30	17 30.76	-32 7.9	1.041	2.035	8.4	17.6	6 30	17 30.81	-23 50.2	1.216	2.213	6.9	19.7
7 10	17 22.52	-31 10.9	1.082	2.040	13.1	17.9	7 10	17 21.59	-23 40.6	1.234	2.190	12.0	19.9
7 20	17 17.74	-30 10.4	1.142	2.045	17.5	18.2	7 20	17 15.06	-23 31.4	1.273	2.167	16.7	20.1
443535	2014 KJ ₁	6 17.4 330°07		4°8/17.3 16			94771	2001 XF ₁₀₅	6 17.4 104°02		3°8/17.6 18		
5 11	18 7.06	-10 6.5	2.139	2.958	13.5	20.9	5 11	18 15.38	-32 15.0	1.836	2.661	15.2	19.7
5 21	18 3.16	-9 43.5	2.055	2.954	10.8	20.7	5 21	18 10.20	-32 47.7	1.765	2.670	12.0	19.5
5 31	17 57.34	-9 28.4	1.994	2.950	8.0	20.5	5 31	18 2.27	-33 14.4	1.716	2.679	8.5	19.3
6 10	17 50.15	-9 23.0	1.957	2.946	5.5	20.4	6 10	17 52.36	-33 31.1	1.691	2.688	5.1	19.1
6 20	17 42.29	-9 28.4	1.946	2.942	4.9	20.3	6 20	17 41.58	-33 35.1	1.692	2.697	4.0	19.1
6 30	17 34.61	-9 44.8	1.962	2.938	6.8	20.4	6 30	17 31.21	-33 26.1	1.719	2.706	6.5	19.2
7 10	17 27.92	-10 11.3	2.003	2.935	9.6	20.6	7 10	17 22.46	-33 6.7	1.772	2.714	10.0	19.5
7 20	17 22.86	-10 46.4	2.068	2.932	12.5	20.8	7 20	17 16.16	-32 40.6	1.848	2.722	13.2	19.7
250180	2002 TP ₂₃₇	6 17.4 266°23		13°2/12.7 18			38084	2006 AG ₁₀₄	6 17.4 222°49		0°4/17.5 18		
5 11	18 15.21	-7 31.8	1.125	1.968	21.5	19.5	5 11	18 13.61	-24 45.4	2.230	3.051	13.0	22.7
5 21	18 11.06	-4 30.5	1.054	1.958	18.3	19.2	5 21	18 8.36	-24 46.5	2.134	3.041	10.1	22.5
5 31	18 3.38	-1 31.1	1.002	1.947	15.1	19.0	5 31	18 0.87	-24 46.1	2.060	3.031	6.7	22.3
6 10	17 53.01	+1 13.0	0.972	1.936	13.3	18.8	6 10	17 51.74	-24 42.9	2.013	3.020	3.0	22.0
6 20	17 41.28	+3 27.7	0.964	1.925	13.9	18.8	6 20	17 41.78	-24 36.2	1.993	3.008	1.1	21.9
6 30	17 29.87	+5 2.2	0.977	1.914	16.6	18.9	6 30	17 31.96	-24 26.0	2.002	2.996	5.0	22.1
7 10	17 20.42	+5 53.1	1.010	1.903	20.2	19.1	7 10	17 23.26	-24 13.6	2.038	2.983	8.7	22.3
7 20	17 14.04	+6 3.7	1.057	1.892	23.7	19.3	7 20	17 16.44	-24 0.9	2.098	2.970	12.0	22.5
334024	2000 WD ₁₃₇	6 17.4 249°94		6°2/16.3 18			51793	2001 MK ₂₅	6 17.4 316°54		4°8/18.4 18		
5 11	18 1												

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6 17.4

6 17.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
352563	2008 <i>DC</i> ₃		6 17.4 167°06	0°1/17.4 18			39407	1187 <i>T</i> ₋₁		6 17.4 99°46	1°1/17.4 18		
5 11	18 10.45	-23 18.8	2.741	3.557	10.9	22.8	5 11	18 16.21	-21 20.8	1.509	2.348	17.2	20.9
5 21	18 5.38	-23 19.0	2.656	3.562	8.4	22.5	5 21	18 10.89	-21 9.7	1.447	2.365	13.3	20.6
5 31	17 58.61	-23 18.7	2.595	3.565	5.6	22.5	5 31	18 2.70	-20 59.6	1.407	2.381	8.8	20.4
6 10	17 50.67	-23 17.1	2.561	3.568	2.4	22.3	6 10	17 52.55	-20 49.8	1.389	2.397	3.9	20.2
6 20	17 42.19	-23 13.8	2.556	3.571	0.8	22.1	6 20	17 41.61	-20 40.3	1.398	2.412	1.7	20.1
6 30	17 33.93	-23 9.1	2.580	3.574	4.1	22.4	6 30	17 31.26	-20 31.8	1.432	2.428	6.4	20.4
7 10	17 26.58	-23 3.6	2.632	3.575	7.1	22.6	7 10	17 22.71	-20 25.6	1.492	2.442	10.8	20.7
7 20	17 20.68	-22 58.3	2.709	3.577	9.7	22.8	7 20	17 16.76	-20 22.9	1.573	2.457	14.6	21.0
263178	2007 <i>XE</i> ₃₀		6 17.4 234°78	1°1/17.4 17			59062	1998 <i>US</i> ₂₅		6 17.4 235°10	5°2/17.2 17		
5 11	18 14.95	-20 31.9	1.828	2.657	15.1	22.2	5 11	18 13.51	-12 37.2	1.552	2.385	17.1	19.9
5 21	18 9.89	-20 29.6	1.732	2.644	11.8	21.9	5 21	18 9.01	-12 4.2	1.468	2.376	13.7	19.7
5 31	18 2.17	-20 29.1	1.658	2.630	7.9	21.7	5 31	18 1.69	-11 38.6	1.403	2.367	9.9	19.5
6 10	17 52.42	-20 29.7	1.609	2.616	3.6	21.4	6 10	17 52.23	-11 22.9	1.362	2.358	6.3	19.2
6 20	17 41.56	-20 30.8	1.586	2.601	1.7	21.2	6 20	17 41.66	-11 19.0	1.346	2.348	5.4	19.1
6 30	17 30.80	-20 32.4	1.591	2.585	6.0	21.4	6 30	17 31.27	-11 27.7	1.355	2.338	8.3	19.3
7 10	17 21.33	-20 35.2	1.622	2.569	10.4	21.7	7 10	17 22.32	-11 48.6	1.387	2.327	12.4	19.5
7 20	17 14.08	-20 40.1	1.675	2.552	14.3	21.9	7 20	17 15.78	-12 20.2	1.441	2.316	16.3	19.7
276050	2002 <i>CU</i> ₃₀		6 17.4 216°81	0°6/17.4 18			499422	2010 <i>CU</i> ₈₂		6 17.4 113°84	6°4/17.2 17		
5 11	18 13.36	-20 51.1	2.322	3.140	12.6	22.0	5 11	18 10.28	-5 32.9	2.162	2.962	14.0	21.6
5 21	18 8.05	-21 0.1	2.225	3.131	9.8	21.8	5 21	18 5.42	-4 52.0	2.097	2.976	11.5	21.5
5 31	18 0.63	-21 10.7	2.151	3.121	6.5	21.5	5 31	17 58.70	-4 21.6	2.052	2.990	9.0	21.3
6 10	17 51.65	-21 22.2	2.104	3.111	2.9	21.3	6 10	17 50.72	-4 4.3	2.033	3.003	6.9	21.2
6 20	17 41.84	-21 33.5	2.085	3.099	1.2	21.1	6 20	17 42.23	-4 1.6	2.039	3.016	6.5	21.2
6 30	17 32.14	-21 44.2	2.094	3.088	4.9	21.4	6 30	17 34.05	-4 13.9	2.072	3.028	7.9	21.3
7 10	17 23.45	-21 54.6	2.131	3.075	8.5	21.6	7 10	17 26.96	-4 39.8	2.131	3.041	10.2	21.5
7 20	17 16.50	-22 5.1	2.193	3.062	11.7	21.7	7 20	17 21.52	-5 17.2	2.212	3.052	12.6	21.7
49452	1998 <i>YV</i> ₁₈		6 17.4 240°93	0°7/17.4 18			256490	2007 <i>EZ</i> ₁₄		6 17.4 287°85	0°3/17.4 18		
5 11	18 10.87	-20 51.3	2.153	2.980	13.1	19.8	5 11	18 8.62	-22 40.7	2.334	3.163	12.2	21.1
5 21	18 6.28	-20 58.0	2.062	2.972	10.2	19.6	5 21	18 4.37	-22 40.0	2.244	3.156	9.5	20.9
5 31	17 59.52	-21 6.5	1.993	2.965	6.8	19.4	5 31	17 58.16	-22 39.2	2.177	3.149	6.3	20.7
6 10	17 51.17	-21 16.1	1.949	2.957	3.0	19.1	6 10	17 50.55	-22 37.7	2.135	3.142	2.8	20.4
6 20	17 42.02	-21 25.9	1.933	2.948	1.2	19.0	6 20	17 42.26	-22 35.2	2.121	3.136	1.0	20.3
6 30	17 33.00	-21 35.6	1.945	2.940	5.1	19.2	6 30	17 34.14	-22 31.8	2.134	3.129	4.6	20.5
7 10	17 25.06	-21 45.5	1.984	2.931	8.8	19.4	7 10	17 27.01	-22 28.3	2.175	3.123	8.1	20.7
7 20	17 18.92	-21 55.9	2.046	2.922	12.1	19.6	7 20	17 21.52	-22 25.5	2.239	3.116	11.1	20.9
38277	1999 <i>RP</i> ₄₉		6 17.4 290°65	2°0/17.5 18			468464	2004 <i>EL</i> ₁₉		6 17.5 62°10	4°4/17.7 17		
5 11	18 11.28	-28 43.3	2.290	3.112	12.6	19.4	5 11	18 15.33	-32 18.2	1.529	2.366	17.1	20.6
5 21	18 6.81	-28 58.2	2.176	3.082	10.0	19.2	5 21	18 10.73	-32 53.9	1.460	2.372	13.6	20.4
5 31	18 0.04	-29 10.1	2.084	3.052	6.8	18.9	5 31	18 2.92	-33 22.8	1.412	2.378	9.6	20.2
6 10	17 51.47	-29 16.9	2.018	3.022	3.5	18.7	6 10	17 52.75	-33 40.3	1.386	2.385	5.8	20.0
6 20	17 41.88	-29 16.7	1.979	2.991	2.2	18.5	6 20	17 41.51	-33 43.0	1.386	2.392	4.5	19.9
6 30	17 32.25	-29 9.0	1.968	2.960	5.3	18.7	6 30	17 30.76	-33 30.6	1.410	2.398	7.4	20.1
7 10	17 23.61	-28 54.9	1.983	2.929	8.9	18.8	7 10	17 21.92	-33 6.1	1.459	2.405	11.3	20.3
7 20	17 16.80	-28 36.7	2.023	2.897	12.3	19.0	7 20	17 15.94	-32 34.5	1.528	2.412	15.0	20.6
175188	2005 <i>EL</i> ₂₁₆		6 17.4 126°25	0°8/17.5 17			296271	2009 <i>DH</i> ₄₅		6 17.5 44°55	0°1/17.5 17		
5 11	18 16.10	-25 10.5	1.684	2.517	15.9	21.7	5 11	18 13.94	-25 27.0	1.319	2.172	18.4	20.2
5 21	18 10.75	-25 19.5	1.614	2.528	12.4	21.5	5 21	18 9.73	-25 2.2	1.252	2.177	14.3	20.0
5 31	18 2.62	-25 26.9	1.565	2.538	8.2	21.3	5 31	18 2.25	-24 33.1	1.204	2.182	9.5	19.7
6 10	17 52.53	-25 30.7	1.540	2.548	3.7	21.0	6 10	17 52.44	-23 59.0	1.179	2.188	4.2	19.4
6 20	17 41.58	-25 29.4	1.542	2.557	1.5	20.9	6 20	17 41.65	-23 20.6	1.178	2.193	1.4	19.3
6 30	17 31.08	-25 23.1	1.571	2.566	5.9	21.2	6 30	17 31.44	-22 40.4	1.202	2.199	6.9	19.6
7 10	17 22.24	-25 13.6	1.625	2.574	10.2	21.5	7 10	17 23.23	-22 2.3	1.248	2.206	11.9	19.9
7 20	17 15.87	-25 3.2	1.701	2.583	13.9	21.7	7 20	17 17.91	-21 29.5	1.316	2.212	16.2	20.2
408355	2013 <i>GX</i> ₈₈		6 17.4 105°10	4°6/17.3 17			314056	2005 <i>AZ</i> ₃₈		6 17.5 112°22	1°6/17.5 17		
5 11	18 13.80	-14 7.6	1.408	2.249	18.1	20.8	5 11	18 17.33	-26 26.2	1.628	2.461	16.4	21.7
5 21	18 9.23	-13 37.6	1.342	2.257	14.3	20.6	5 21	18 11.78	-26 45.4	1.562	2.476	12.7	21.5
5 31	18 1.74	-13 15.0	1.296	2.264	10.1	20.4	5 31	18 3.34	-27 2.3	1.518	2.490	8.5	21.3
6 10	17 52.18	-13 1.9	1.272	2.272	6.0	20.2	6 10	17 52.85	-27 14.0	1.498	2.504	4.0	21.0
6 20	17 41.70	-12 59.5	1.273	2.279	4.8	20.1	6 20	17 41.51	-27 18.5	1.504	2.518	2.0	20.9
6 30	17 31.68	-13 8.1	1.299	2.287	8.1	20.3	6 30	17 30.69	-27 15.6	1.537	2.531	6.1	21.2
7 10	17 23.38	-13 27.3	1.348	2.294	12.2	20.6	7 10	17 21.64	-27 7.2	1.595	2.544	10.4	21.5
7 20	17 17.66	-13 55.3	1.419	2.300	16.1	20.8	7 20	17 15.20	-26 56.2	1.675	2.556	14.0	21.8
417958	2007 <i>TE</i> ₈₇		6 17.4 178°91	3°2/17.2 17			384053	2008 <i>UK</i> ₂₅₆		6 17.5 151°82	1°2/17.5 17		
5 11	18 14.36	-15 55.0	1.820	2.646	15.2	22.5	5 11	18 13.16	-25 44.4	2.218	3.040	13.0	22.0
5 21	18 9.14	-15 32.1	1.740	2.648	12.0	22.2	5 21	18 7.94	-26 6.2	2.138	3.046	10.1	21.8
5 31	18 1.47	-15 13.4	1.682	2.649	8.3	22.0	5 31	18 0.55	-26 26.8	2.081	3.051	6.7	21.6
6 10	17 52.02	-15 0.1	1.648	2.649	4.6	21.8	6 10	17 51.60	-26 44.2	2.050	3.056	3.1	21.4
6 20	17 41.75	-14 52.9	1.641	2.649	3.5	21.7	6 20	17 41.93	-26 56.9	2.047	3.061	1.5	21.3
6 30	17 31.76	-14 52.4	1.661	2.649	6.6	21.9	6 30	17 32.50	-27 4.2	2.072	3.065	4.9	21.5
7 10	17 23.12	-14 58.9	1.706	2.647	10.4	22.1	7 10	17 24.27	-27 7.0	2.124	3.069	8.4	21.8
7 20	17 16.62	-15 12.2	1.775	2.645	13.9	22.4	7 20	17 17.92	-27 6.7	2.200	3.073	11.5	22.0
52182	3130 <i>T</i> ₋₂		6 17.4 113°93	2°7/17.5 18			134674	1999 <i>VO</i>					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
65396	2002 RQ ₆₉	6 17.5 310°33	1°2/17.4 18				414266	2008 GW ₁₂₁	6 17.5 175°23	0°9/17.4 17			
5 11	18 9.72	-20 10.6	1.851	2.689	14.5	20.0	5 11	18 14.52	-20 34.1	2.016	2.840	14.0	22.0
5 21	18 5.70	-20 8.5	1.765	2.682	11.3	19.8	5 21	18 9.13	-20 36.6	1.934	2.842	10.9	21.8
5 31	17 59.30	-20 8.6	1.701	2.675	7.6	19.5	5 31	18 1.42	-20 40.9	1.874	2.844	7.3	21.6
6 10	17 51.13	-20 10.6	1.661	2.668	3.5	19.3	6 10	17 52.02	-20 46.2	1.839	2.846	3.3	21.3
6 20	17 42.08	-20 14.1	1.647	2.662	1.7	19.1	6 20	17 41.83	-20 51.6	1.832	2.847	1.4	21.2
6 30	17 33.22	-20 19.0	1.660	2.656	5.7	19.4	6 30	17 31.90	-20 57.2	1.853	2.847	5.4	21.4
7 10	17 25.60	-20 25.8	1.699	2.650	9.7	19.6	7 10	17 23.22	-21 3.2	1.901	2.846	9.2	21.7
7 20	17 20.02	-20 34.8	1.760	2.644	13.3	19.8	7 20	17 16.55	-21 10.5	1.972	2.845	12.6	21.9
471720	2012 TB ₃₁₉	6 17.5 268°79	1°7/17.3 18				274703	2008 UC ₈₄	6 17.5 314°80	1°9/17.4 17			
5 11	18 14.52	-25 20.2	2.139	2.961	13.4	21.7	5 11	18 10.84	-18 39.7	1.789	2.625	15.0	20.9
5 21	18 9.52	-26 6.3	2.029	2.936	10.6	21.4	5 21	18 6.58	-18 33.6	1.709	2.624	11.7	20.7
5 31	18 1.98	-26 54.5	1.942	2.911	7.2	21.2	5 31	17 59.87	-18 30.8	1.650	2.623	7.9	20.4
6 10	17 52.41	-27 41.8	1.881	2.886	3.5	20.9	6 10	17 51.40	-18 31.3	1.615	2.621	3.8	20.2
6 20	17 41.59	-28 24.7	1.847	2.860	2.1	20.8	6 20	17 42.06	-18 34.9	1.607	2.620	2.2	20.1
6 30	17 30.62	-29 0.8	1.842	2.834	5.6	20.9	6 30	17 32.99	-18 41.7	1.625	2.619	6.0	20.3
7 10	17 20.65	-29 29.4	1.864	2.807	9.5	21.1	7 10	17 25.22	-18 51.9	1.669	2.618	10.0	20.5
7 20	17 12.65	-29 51.3	1.910	2.780	13.1	21.3	7 20	17 19.56	-19 5.5	1.735	2.617	13.6	20.8
114496	2003 AB ₆₂	6 17.5 45°67	1°9/17.9 18				132529	2002 JJ ₆₂	6 17.5 76°62	1°3/17.3 18			
5 11	18 13.48	-30 44.0	1.782	2.614	15.3	18.4	5 11	18 14.28	-23 34.0	1.797	2.630	15.1	19.6
5 21	18 8.39	-30 19.8	1.725	2.636	11.9	18.2	5 21	18 9.31	-24 27.5	1.727	2.640	11.7	19.4
5 31	18 0.81	-29 47.8	1.688	2.658	8.0	18.0	5 31	18 1.72	-25 23.3	1.678	2.651	7.8	19.2
6 10	17 51.64	-29 7.1	1.677	2.681	4.0	17.8	6 10	17 52.21	-26 18.0	1.655	2.661	3.6	19.0
6 20	17 41.97	-28 18.5	1.691	2.704	2.1	17.7	6 20	17 41.79	-27 7.9	1.658	2.672	1.8	18.9
6 30	17 32.98	-27 24.6	1.733	2.728	5.5	18.0	6 30	17 31.64	-27 50.4	1.689	2.683	5.8	19.1
7 10	17 25.65	-26 29.3	1.801	2.752	9.3	18.3	7 10	17 22.94	-28 25.1	1.745	2.693	9.7	19.4
7 20	17 20.61	-25 36.3	1.892	2.776	12.6	18.5	7 20	17 16.53	-28 52.9	1.825	2.704	13.2	19.6
261242	2005 UV ₅₂	6 17.5 249°81	0°9/17.5 18				204956	2008 WS ₆₁	6 17.5 229°33	0°6/17.5 17			
5 11	18 10.27	-25 11.4	2.566	3.386	11.5	21.0	5 11	18 12.88	-25 42.8	2.301	3.122	12.6	21.8
5 21	18 5.58	-25 30.6	2.466	3.373	8.9	20.8	5 21	18 7.76	-25 41.0	2.204	3.111	9.8	21.6
5 31	17 58.97	-25 49.3	2.391	3.361	6.0	20.6	5 31	18 0.49	-25 36.7	2.130	3.100	6.6	21.4
6 10	17 50.94	-26 5.9	2.341	3.347	2.7	20.4	6 10	17 51.63	-25 28.9	2.082	3.088	3.0	21.1
6 20	17 42.16	-26 19.2	2.320	3.334	1.2	20.2	6 20	17 41.98	-25 16.9	2.061	3.076	1.2	21.0
6 30	17 33.46	-26 28.6	2.327	3.321	4.5	20.4	6 30	17 32.49	-25 1.0	2.069	3.064	4.8	21.2
7 10	17 25.65	-26 34.3	2.362	3.307	7.7	20.6	7 10	17 24.08	-24 42.7	2.105	3.051	8.4	21.4
7 20	17 19.41	-26 37.4	2.421	3.293	10.6	20.8	7 20	17 17.48	-24 24.0	2.164	3.037	11.7	21.6
439182	2011 WF ₉₀	6 17.5 359°49	2°8/16.7 17				119431	2001 TM ₁₂₈	6 17.5 191°80	2°3/17.5 18			
5 11	18 9.06	-20 48.9	1.768	2.610	14.9	19.6	5 11	18 12.91	-15 59.0	2.010	2.832	14.1	20.3
5 21	18 5.09	-19 35.3	1.689	2.608	11.6	19.3	5 21	18 7.91	-16 5.2	1.925	2.831	11.1	20.1
5 31	17 58.77	-18 18.5	1.633	2.607	7.9	19.1	5 31	18 0.64	-16 17.2	1.862	2.830	7.6	19.9
6 10	17 50.84	-17 1.4	1.601	2.606	4.1	18.9	6 10	17 51.71	-16 34.6	1.825	2.828	3.9	19.6
6 20	17 42.23	-15 47.5	1.596	2.606	3.2	18.8	6 20	17 41.96	-16 56.8	1.814	2.825	2.6	19.5
6 30	17 34.00	-14 40.7	1.618	2.607	6.6	19.0	6 30	17 32.39	-17 23.1	1.832	2.823	5.7	19.7
7 10	17 27.14	-13 44.5	1.665	2.609	10.4	19.3	7 10	17 23.98	-17 52.7	1.876	2.819	9.4	19.9
7 20	17 22.34	-13 0.7	1.734	2.611	13.9	19.5	7 20	17 17.49	-18 24.7	1.943	2.816	12.8	20.1
208628	2002 EE ₈₀	6 17.5 30°18	5°4/17.7 17				341172	2007 QW ₁₆	6 17.5 271°06	0°7/17.4 17			
5 11	18 14.89	-32 58.0	1.270	2.120	19.2	19.8	5 11	18 10.80	-22 16.3	1.964	2.797	14.0	20.9
5 21	18 11.06	-33 43.9	1.206	2.124	15.3	19.6	5 21	18 6.42	-22 2.5	1.875	2.789	10.9	20.7
5 31	18 3.49	-34 22.3	1.161	2.129	11.0	19.4	5 31	17 59.72	-21 48.0	1.808	2.781	7.3	20.4
6 10	17 53.11	-34 46.9	1.137	2.135	6.9	19.1	6 10	17 51.33	-21 32.8	1.765	2.773	3.2	20.2
6 20	17 41.43	-34 53.1	1.136	2.140	5.6	19.1	6 20	17 42.09	-21 16.9	1.750	2.764	1.4	20.0
6 30	17 30.31	-34 40.2	1.158	2.147	8.6	19.3	6 30	17 33.07	-21 1.1	1.761	2.756	5.4	20.3
7 10	17 21.45	-34 12.1	1.203	2.153	12.9	19.5	7 10	17 25.26	-20 46.8	1.798	2.748	9.4	20.5
7 20	17 15.94	-33 35.0	1.267	2.160	16.9	19.8	7 20	17 19.42	-20 35.5	1.859	2.739	12.9	20.7
186744	2004 CY ₅₃	6 17.5 224°43	0°8/17.5 17				396121	2013 CV ₁₈₁	6 17.5 8°49	3°2/17.5 18			
5 11	18 15.08	-25 9.3	1.931	2.758	14.5	22.0	5 11	18 7.99	-13 12.0	2.199	3.022	13.1	20.6
5 21	18 9.90	-25 18.5	1.838	2.749	11.3	22.0	5 21	18 3.88	-13 10.8	2.118	3.022	10.3	20.4
5 31	18 2.13	-25 26.5	1.768	2.739	7.6	21.8	5 31	17 57.85	-13 16.4	2.059	3.023	7.3	20.2
6 10	17 52.40	-25 31.3	1.722	2.729	3.4	21.5	6 10	17 50.46	-13 29.3	2.025	3.023	4.3	20.0
6 20	17 41.66	-25 31.4	1.703	2.718	1.4	21.3	6 20	17 42.42	-13 49.5	2.018	3.024	3.4	20.0
6 30	17 31.08	-25 26.7	1.712	2.706	5.6	21.6	6 30	17 34.57	-14 16.3	2.039	3.025	5.7	20.1
7 10	17 21.80	-25 18.3	1.747	2.694	9.7	21.8	7 10	17 27.71	-14 48.8	2.086	3.027	8.8	20.3
7 20	17 14.72	-25 8.6	1.805	2.682	13.4	22.0	7 20	17 22.48	-15 25.8	2.156	3.028	11.7	20.5
15918	Thereluzia	6 17.5 280°71	3°2/17.8 18				338640	2003 SV ₃₀₀	6 17.5 209°38	6°4/17.0 18			
5 11	18 15.37	-30 52.8	1.449	2.291	17.6	18.6	5 11	18 9.76	-5 11.9	2.305	3.101	13.4	21.3
5 21	18 11.24	-30 57.5	1.356	2.272	14.1	18.3	5 21	18 5.11	-4 33.4	2.219	3.096	11.1	21.2
5 31	18 3.62	-30 54.6	1.283	2.254	9.8	18.0	5 31	17 58.61	-4 4.6	2.156	3.091	8.7	21.0
6 10	17 53.24	-30 40.3	1.232	2.235	5.3	17.7	6 10	17 50.78	-3 48.2	2.117	3.085	6.8	20.9
6 20	17 41.35	-30 12.1	1.205	2.216	3.4	17.6	6 20	17 42.31	-3 45.9	2.104	3.079	6.5	20.9
6 30	17 29.62	-29 30.4	1.203	2.198	7.4	17.7	6 30	17 33.99	-3 58.4	2.118	3.073	7.9	20.9
7 10	17 19.73	-28 39.7	1.225	2.179	12.4	18.0	7 10	17 26.61	-4 24.8	2.158	3.066	10.2	21.1
7 20	17 12.87	-27 45.7	1.267	2.160	16.9	18.2	7 20	17 20.77	-5 3.1	2.220	3.058	12.7	21.2
440517	2005 UQ ₆₀	6 17.5 288°16	0°6/17.5 18				248558	2005 YV ₁₂₅	6 17.5 218°37	0°2/17.5 18			
5 11	18 9.												

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
338394	2003 <i>AV</i> ₅₃		6 17.5 230°29	0°2/17.5 18			18952	2000 <i>QF</i> ₁₀₅		6 17.5 357°94	0°9/17.4 18		
5 11	18 11.40	-21 45.4	2.847	3.658	10.7	21.8	5 11	18 10.48	-23 56.0	2.069	2.900	13.5	16.9
5 21	18 6.23	-21 58.7	2.741	3.644	8.3	21.6	5 21	18 6.13	-24 28.0	1.986	2.900	10.4	16.7
5 31	17 59.31	-22 13.0	2.660	3.629	5.5	21.4	5 31	17 59.52	-25 1.2	1.926	2.899	6.9	16.5
6 10	17 51.10	-22 27.5	2.606	3.613	2.4	21.1	6 10	17 51.26	-25 33.2	1.892	2.899	3.1	16.2
6 20	17 42.19	-22 41.2	2.581	3.596	0.9	21.0	6 20	17 42.17	-26 2.1	1.884	2.899	1.4	16.1
6 30	17 33.33	-22 53.7	2.586	3.579	4.1	21.2	6 30	17 33.26	-26 26.5	1.904	2.899	5.1	16.3
7 10	17 25.24	-23 5.0	2.619	3.561	7.2	21.4	7 10	17 25.51	-26 46.3	1.950	2.899	8.8	16.6
7 20	17 18.54	-23 15.6	2.678	3.543	9.9	21.5	7 20	17 19.67	-27 2.3	2.020	2.899	12.1	16.8
178173	2006 <i>UG</i> ₆₈		6 17.5 288°22	1°0/17.4 18			423053	2003 <i>UL</i> ₃₁₅		6 17.5 254°05	1°8/17.5 17		
5 11	18 9.42	-20 24.8	2.080	2.912	13.4	20.8	5 11	18 16.10	-26 14.4	1.809	2.638	15.2	22.0
5 21	18 5.27	-20 25.0	1.988	2.901	10.4	20.6	5 21	18 11.15	-26 43.4	1.708	2.619	12.0	21.8
5 31	17 58.94	-20 27.0	1.917	2.890	7.0	20.3	5 31	18 3.27	-27 12.2	1.628	2.599	8.2	21.5
6 10	17 51.00	-20 30.5	1.872	2.879	3.2	20.1	6 10	17 53.07	-27 37.7	1.573	2.579	3.9	21.2
6 20	17 42.23	-20 35.0	1.854	2.868	1.5	19.9	6 20	17 41.51	-27 56.9	1.544	2.558	2.2	21.0
6 30	17 33.59	-20 40.4	1.863	2.857	5.2	20.2	6 30	17 29.92	-28 8.1	1.542	2.536	6.3	21.2
7 10	17 26.02	-20 47.0	1.898	2.847	9.0	20.4	7 10	17 19.64	-28 11.9	1.566	2.514	10.7	21.5
7 20	17 20.28	-20 55.4	1.956	2.836	12.4	20.6	7 20	17 11.76	-28 10.6	1.613	2.491	14.7	21.6
470130	2006 <i>UN</i> ₂₈		6 17.5 305°32	0°9/17.5 18			304760	2007 <i>BG</i> ₂₁		6 17.5 181°32	0°2/17.5 18		
5 11	18 9.99	-25 27.1	1.977	2.812	13.9	21.4	5 11	18 9.98	-23 29.6	2.807	3.624	10.7	21.7
5 21	18 5.90	-25 34.8	1.887	2.802	10.8	21.2	5 21	18 5.06	-23 38.8	2.719	3.624	8.3	21.5
5 31	17 59.45	-25 41.0	1.818	2.792	7.2	21.0	5 31	17 58.47	-23 47.7	2.655	3.624	5.5	21.4
6 10	17 51.25	-25 44.1	1.775	2.782	3.3	20.7	6 10	17 50.71	-23 55.4	2.617	3.624	2.4	21.2
6 20	17 42.15	-25 43.2	1.757	2.772	1.4	20.5	6 20	17 42.39	-24 1.3	2.609	3.624	0.8	21.0
6 30	17 33.22	-25 38.1	1.767	2.763	5.3	20.8	6 30	17 34.22	-24 5.1	2.629	3.623	4.0	21.3
7 10	17 25.51	-25 30.0	1.802	2.753	9.2	21.0	7 10	17 26.92	-24 7.4	2.678	3.622	6.9	21.4
7 20	17 19.79	-25 20.6	1.861	2.744	12.8	21.2	7 20	17 21.03	-24 8.8	2.752	3.620	9.6	21.6
482958	2014 <i>KJ</i> ₅₂		6 17.5 339°14	4°6/16.8 16			15281	1991 <i>PT</i> ₁₆		6 17.5 310°37	1°3/17.4 18		
5 11	18 7.15	-12 1.1	2.203	3.025	13.1	21.3	5 11	18 9.37	-20 8.2	1.975	2.810	13.9	17.7
5 21	18 3.19	-11 15.6	2.121	3.022	10.4	21.1	5 21	18 5.29	-20 2.7	1.889	2.804	10.8	17.5
5 31	17 57.37	-10 35.1	2.062	3.020	7.6	20.9	5 31	17 58.97	-19 59.1	1.825	2.798	7.2	17.3
6 10	17 50.25	-10 1.9	2.027	3.017	5.2	20.8	6 10	17 51.02	-19 57.0	1.785	2.792	3.4	17.0
6 20	17 42.52	-9 38.1	2.019	3.015	4.7	20.7	6 20	17 42.27	-19 56.5	1.772	2.786	1.7	16.9
6 30	17 35.00	-9 24.8	2.037	3.012	6.7	20.8	6 30	17 33.71	-19 57.6	1.786	2.781	5.4	17.1
7 10	17 28.48	-9 22.5	2.082	3.010	9.5	21.0	7 10	17 26.31	-20 0.8	1.826	2.776	9.2	17.3
7 20	17 23.54	-9 30.4	2.149	3.009	12.2	21.2	7 20	17 20.82	-20 6.7	1.889	2.771	12.7	17.5
455416	2003 <i>GN</i> ₁₁		6 17.5 90°74	1°7/17.6 16			51754	2001 <i>KT</i> ₇₃		6 17.5 284°31	5°9/16.6 18		
5 11	18 17.89	-26 43.7	1.369	2.213	18.4	22.1	5 11	18 10.73	-12 32.2	1.581	2.417	16.7	19.7
5 21	18 12.67	-26 58.9	1.310	2.229	14.3	21.8	5 21	18 6.76	-11 32.2	1.499	2.409	13.4	19.5
5 31	18 4.15	-27 11.1	1.271	2.245	9.5	21.6	5 31	18 0.15	-10 37.4	1.438	2.401	9.8	19.2
6 10	17 53.30	-27 17.0	1.254	2.261	4.5	21.4	6 10	17 51.59	-9 51.6	1.400	2.392	6.7	19.0
6 20	17 41.51	-27 14.8	1.262	2.276	2.2	21.2	6 20	17 42.07	-9 18.2	1.386	2.384	6.1	19.0
6 30	17 30.39	-27 4.6	1.296	2.291	6.8	21.6	6 30	17 32.78	-8 59.7	1.398	2.376	8.8	19.1
7 10	17 21.38	-26 49.2	1.353	2.306	11.5	21.9	7 10	17 24.90	-8 56.9	1.433	2.368	12.5	19.3
7 20	17 15.34	-26 32.0	1.432	2.321	15.5	22.2	7 20	17 19.27	-9 8.8	1.489	2.360	16.1	19.5
281931	2011 <i>FV</i> ₄₆		6 17.5 328°73	1°3/17.4 17			212647	2006 <i>UX</i> ₆₇		6 17.5 195°93	1°7/17.4 18		
5 11	18 10.43	-21 8.1	1.661	2.504	15.7	20.9	5 11	18 11.85	-26 48.3	2.343	3.164	12.4	20.8
5 21	18 6.50	-20 53.0	1.580	2.500	12.2	20.6	5 21	18 6.98	-27 23.0	2.257	3.163	9.7	20.6
5 31	17 59.95	-20 38.6	1.520	2.495	8.2	20.4	5 31	17 59.99	-27 56.8	2.193	3.162	6.5	20.4
6 10	17 51.49	-20 24.9	1.484	2.491	3.7	20.1	6 10	17 51.45	-28 27.3	2.156	3.161	3.2	20.2
6 20	17 42.09	-20 12.0	1.473	2.487	1.8	19.9	6 20	17 42.13	-28 52.2	2.147	3.159	2.0	20.1
6 30	17 32.97	-20 0.9	1.488	2.484	6.1	20.2	6 30	17 32.96	-29 10.6	2.166	3.157	4.9	20.3
7 10	17 25.27	-19 52.7	1.528	2.480	10.5	20.5	7 10	17 24.85	-29 22.6	2.212	3.155	8.2	20.5
7 20	17 19.84	-19 48.6	1.589	2.477	14.3	20.7	7 20	17 18.52	-29 29.6	2.282	3.153	11.2	20.7
488457	1995 <i>TJ</i> ₁₀		6 17.5 271°02	3°4/17.1 16			395238	2010 <i>NN</i> ₃₆		6 17.5 310°27	3°0/17.7 18		
5 11	18 10.86	-15 45.0	1.979	2.806	14.1	22.5	5 11	18 10.70	-31 31.7	2.197	3.020	13.0	21.0
5 21	18 6.51	-15 14.6	1.878	2.786	11.2	22.3	5 21	18 6.33	-31 52.0	2.108	3.013	10.3	21.0
5 31	17 59.85	-14 47.3	1.799	2.765	7.9	22.0	5 31	17 59.67	-32 7.3	2.042	3.007	7.2	20.8
6 10	17 51.45	-14 24.6	1.744	2.745	4.6	21.8	6 10	17 51.35	-32 15.0	2.001	3.000	4.2	20.6
6 20	17 42.09	-14 7.8	1.717	2.724	3.6	21.7	6 20	17 42.21	-32 13.3	1.987	2.994	3.1	20.5
6 30	17 32.78	-13 58.2	1.716	2.702	6.6	21.8	6 30	17 33.27	-32 1.9	1.999	2.988	5.6	20.6
7 10	17 24.55	-13 56.5	1.741	2.681	10.3	22.0	7 10	17 25.53	-31 42.6	2.038	2.982	8.8	20.8
7 20	17 18.20	-14 2.9	1.788	2.659	13.8	22.2	7 20	17 19.73	-31 18.0	2.101	2.976	11.8	21.0
294449	2007 <i>VQ</i> ₂₉₁		6 17.5 102°57	0°3/17.5 18			388191	2006 <i>DW</i> ₂₉		6 17.5 195°50	5°5/17.1 18		
5 11	18 10.76	-22 2.9	2.145	2.974	13.1	21.0	5 11	18 10.48	-8 49.4	2.123	2.933	13.9	21.4
5 21	18 6.10	-22 9.6	2.069	2.980	10.2	20.8	5 21	18 5.82	-8 14.8	2.040	2.931	11.3	21.2
5 31	17 59.34	-22 17.1	2.015	2.987	6.7	20.6	5 31	17 59.17	-7 48.5	1.980	2.929	8.5	21.0
6 10	17 51.12	-22 24.4	1.986	2.994	2.9	20.4	6 10	17 51.08	-7 32.7	1.944	2.927	6.1	20.9
6 20	17 42.23	-22 30.9	1.985	3.000	1.0	20.2	6 20	17 42.31	-7 29.0	1.935	2.924	5.6	20.8
6 30	17 33.62	-22 36.3	2.011	3.006	4.9	20.5	6 30	17 33.74	-7 37.9	1.952	2.921	7.4	20.9
7 10	17 26.16	-22 41.2	2.064	3.013	8.4	20.8	7 10	17 26.21	-7 58.9	1.995	2.918	10.1	21.1
7 20	17 20.51	-22 46.2	2.141	3.019	11.6	21.0	7 20	17 20.39	-8 30.3	2.061	2.914	12.9	21.3
75277	1999 <i>XN</i> ₁₉		6 17.5 241°26	4°3/17.5 18			12309	Tommygrav		6 17			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
440295	2004 <i>RL</i> ₂₃₅		6 17.5 270°13	4.7/17.8	18		87513	2000 <i>QD</i> ₁₈₈		6 17.5 234°75	0°1/17.5	18	
5 11	18 13.53	-38 6.8	2.651	3.447	11.8	21.6	5 11	18 13.60	-22 35.6	2.165	2.988	13.2	20.0
5 21	18 8.40	-38 35.1	2.544	3.425	9.7	21.4	5 21	18 8.54	-22 51.1	2.067	2.975	10.3	19.8
5 31	18 1.03	-38 55.8	2.460	3.403	7.4	21.2	5 31	18 1.18	-23 7.7	1.991	2.962	6.9	19.6
6 10	17 51.97	-39 5.6	2.401	3.381	5.3	21.1	6 10	17 52.07	-23 24.1	1.941	2.948	3.0	19.3
6 20	17 42.00	-39 1.9	2.369	3.358	4.7	21.0	6 20	17 42.02	-23 38.7	1.918	2.933	1.0	19.1
6 30	17 32.11	-38 44.0	2.365	3.335	6.2	21.1	6 30	17 32.04	-23 50.9	1.924	2.919	5.1	19.4
7 10	17 23.28	-38 13.8	2.387	3.312	8.6	21.2	7 10	17 23.13	-24 0.9	1.957	2.903	8.9	19.6
7 20	17 16.29	-37 34.3	2.434	3.288	11.2	21.3	7 20	17 16.10	-24 9.5	2.014	2.887	12.4	19.8
502006	2015 <i>AK</i> ₄₁		6 17.5 197°73	0°4/17.5	17		321108	2008 <i>TZ</i> ₇₄		6 17.5 292°45	0°8/17.4	17	
5 11	18 14.80	-21 57.3	1.936	2.762	14.4	22.7	5 11	18 11.13	-21 48.2	1.821	2.658	14.8	21.5
5 21	18 9.57	-22 0.7	1.850	2.760	11.2	22.4	5 21	18 6.86	-21 40.9	1.738	2.654	11.5	21.3
5 31	18 1.86	-22 4.9	1.785	2.757	7.5	22.2	5 31	18 0.13	-21 34.1	1.676	2.650	7.7	21.1
6 10	17 52.33	-22 8.9	1.746	2.753	3.3	21.9	6 10	17 51.60	-21 27.4	1.639	2.647	3.4	20.8
6 20	17 41.89	-22 11.8	1.734	2.749	1.2	21.8	6 20	17 42.20	-21 20.3	1.628	2.643	1.4	20.7
6 30	17 31.67	-22 13.4	1.749	2.744	5.5	22.1	6 30	17 33.05	-21 13.5	1.644	2.640	5.7	20.9
7 10	17 22.76	-22 14.5	1.791	2.738	9.6	22.3	7 10	17 25.22	-21 8.0	1.685	2.636	9.8	21.2
7 20	17 15.95	-22 16.3	1.857	2.732	13.1	22.5	7 20	17 19.51	-21 4.8	1.749	2.633	13.4	21.4
204955	2008 <i>WF</i> ₆₀		6 17.5 243°95	1°7/17.3	17		207523	2006 <i>JE</i> ₅₄		6 17.5 340°50	5°4/16.6	18	
5 11	18 15.50	-20 43.5	1.583	2.420	16.6	20.9	5 11	18 9.17	-12 24.5	1.804	2.634	15.1	19.6
5 21	18 10.76	-20 23.8	1.490	2.406	13.1	20.6	5 21	18 5.17	-11 25.2	1.726	2.632	12.2	19.4
5 31	18 3.02	-20 4.3	1.419	2.392	8.8	20.4	5 31	17 58.90	-10 31.0	1.669	2.629	8.9	19.2
6 10	17 52.97	-19 45.2	1.371	2.378	4.1	20.0	6 10	17 51.03	-9 45.2	1.636	2.627	6.1	19.0
6 20	17 41.67	-19 26.8	1.348	2.362	2.2	19.9	6 20	17 42.41	-9 10.7	1.629	2.625	5.6	19.0
6 30	17 30.50	-19 10.2	1.352	2.347	6.8	20.1	6 30	17 34.07	-8 49.5	1.648	2.624	7.9	19.1
7 10	17 20.85	-18 57.2	1.381	2.330	11.6	20.3	7 10	17 26.96	-8 42.4	1.691	2.622	11.1	19.3
7 20	17 13.74	-18 49.5	1.431	2.313	15.9	20.6	7 20	17 21.80	-8 48.5	1.756	2.621	14.3	19.5
443784	2015 <i>ML</i> ₇₄		6 17.5 290°02	0°1/17.5	18		6579	Benedix		6 17.5 282°41	8°7/18.4	18	
5 11	18 10.17	-25 10.4	2.176	3.005	13.0	21.0	5 11	18 19.37	-44 47.0	1.862	2.653	16.2	17.7
5 21	18 5.83	-24 50.9	2.076	2.988	10.1	20.8	5 21	18 14.27	-45 29.5	1.767	2.634	13.9	17.5
5 31	17 59.31	-24 28.1	1.999	2.972	6.7	20.6	5 31	18 5.61	-45 57.9	1.691	2.615	11.4	17.3
6 10	17 51.21	-24 1.7	1.948	2.955	3.0	20.3	6 10	17 54.19	-46 5.0	1.638	2.596	9.3	17.2
6 20	17 42.29	-23 31.7	1.924	2.939	1.0	20.1	6 20	17 41.31	-45 45.6	1.608	2.576	8.7	17.1
6 30	17 33.53	-22 59.5	1.927	2.923	5.0	20.4	6 30	17 28.70	-44 58.5	1.603	2.557	10.0	17.1
7 10	17 25.86	-22 27.1	1.957	2.906	8.8	20.6	7 10	17 18.04	-43 48.0	1.622	2.537	12.5	17.2
7 20	17 20.02	-21 56.7	2.011	2.890	12.1	20.8	7 20	17 10.49	-42 21.6	1.662	2.517	15.4	17.4
64386	2001 <i>UO</i> ₁₄₁		6 17.5 112°15	0°7/17.4	17		254162	2004 <i>PH</i> ₁₀₉		6 17.5 310°17	4°0/17.4	18	
5 11	18 11.13	-21 9.5	2.667	3.482	11.2	21.3	5 11	18 7.36	-12 18.7	2.087	2.913	13.6	20.5
5 21	18 5.83	-21 3.6	2.598	3.502	8.6	21.2	5 21	18 3.65	-12 4.6	1.993	2.898	10.9	20.3
5 31	17 58.90	-20 58.0	2.553	3.522	5.7	21.0	5 31	17 57.89	-11 57.5	1.921	2.883	7.8	20.1
6 10	17 50.88	-20 52.7	2.535	3.541	2.6	20.8	6 10	17 50.62	-11 58.7	1.873	2.868	5.0	19.9
6 20	17 42.44	-20 47.3	2.545	3.560	1.1	20.8	6 20	17 42.54	-12 9.0	1.851	2.854	4.1	19.8
6 30	17 34.31	-20 42.4	2.585	3.578	4.1	21.0	6 30	17 34.54	-12 28.5	1.856	2.840	6.4	19.9
7 10	17 27.16	-20 38.4	2.653	3.596	7.1	21.2	7 10	17 27.52	-12 56.3	1.887	2.826	9.7	20.1
7 20	17 21.49	-20 36.0	2.746	3.613	9.6	21.4	7 20	17 22.18	-13 31.4	1.940	2.813	12.8	20.2
163491	2002 <i>SM</i> ₁₃		6 17.5 257°27	0°1/17.5	18		179491	2002 <i>CR</i> ₄₁		6 17.5 68°54	2°5/17.1	17	
5 11	18 11.43	-23 23.5	2.212	3.038	12.9	20.9	5 11	18 8.98	-17 55.7	2.263	3.089	12.6	19.8
5 21	18 6.80	-23 28.4	2.113	3.023	10.1	20.7	5 21	18 4.55	-17 19.1	2.184	3.093	9.8	19.6
5 31	17 59.98	-23 33.1	2.036	3.008	6.7	20.4	5 31	17 58.26	-16 44.0	2.128	3.097	6.7	19.4
6 10	17 51.52	-23 36.5	1.985	2.992	3.0	20.2	6 10	17 50.68	-16 11.5	2.098	3.100	3.6	19.2
6 20	17 42.19	-23 37.9	1.961	2.977	1.0	20.0	6 20	17 42.55	-15 42.9	2.095	3.104	2.7	19.2
6 30	17 32.94	-23 37.0	1.966	2.961	5.0	20.2	6 30	17 34.69	-15 19.6	2.120	3.108	5.3	19.3
7 10	17 24.73	-23 34.7	1.997	2.944	8.7	20.4	7 10	17 27.88	-15 2.5	2.171	3.112	8.5	19.5
7 20	17 18.33	-23 32.1	2.051	2.928	12.1	20.6	7 20	17 22.70	-14 52.3	2.247	3.116	11.4	19.7
18039	1999 <i>ND</i> ₄₉		6 17.5 214°44	0°7/17.6	18		66642	1999 <i>RE</i> ₂₂₆		6 17.5 11°30	5°0/18.5	18	
5 11	18 10.71	-26 31.9	2.448	3.269	11.9	18.4	5 11	18 12.71	-35 54.7	1.384	2.227	18.2	18.6
5 21	18 5.91	-26 21.5	2.358	3.266	9.3	18.3	5 21	18 9.05	-35 53.1	1.317	2.230	14.7	18.4
5 31	17 59.17	-26 7.9	2.292	3.263	6.2	18.0	5 31	18 1.97	-35 37.8	1.268	2.233	10.6	18.1
6 10	17 51.08	-25 50.3	2.253	3.259	2.8	17.8	6 10	17 52.47	-35 5.3	1.240	2.237	6.6	17.9
6 20	17 42.36	-25 28.6	2.241	3.256	1.1	17.7	6 20	17 41.97	-34 14.3	1.236	2.242	5.0	17.8
6 30	17 33.88	-25 3.6	2.258	3.252	4.5	17.9	6 30	17 32.14	-33 7.5	1.257	2.248	7.7	18.0
7 10	17 26.44	-24 36.9	2.301	3.248	7.8	18.1	7 10	17 24.43	-31 51.4	1.301	2.255	11.8	18.3
7 20	17 20.67	-24 10.5	2.370	3.244	10.7	18.3	7 20	17 19.74	-30 33.0	1.366	2.262	15.6	18.5
200116	1996 <i>AJ</i> ₆		6 17.5 154°86	0°4/17.5	17		2662	Kandinsky		6 17.5 187°55	1°6/17.6	18	
5 11	18 12.03	-23 32.6	1.968	2.799	14.0	20.8	5 11	18 15.83	-27 26.4	2.004	2.826	14.2	18.5
5 21	18 7.39	-23 47.0	1.888	2.801	10.9	20.6	5 21	18 10.37	-27 37.3	1.919	2.826	11.1	18.3
5 31	18 0.39	-24 1.8	1.829	2.802	7.2	20.4	5 31	18 2.39	-27 45.0	1.856	2.825	7.5	18.0
6 10	17 51.69	-24 15.2	1.796	2.803	3.2	20.1	6 10	17 52.59	-27 47.3	1.818	2.823	3.6	17.8
6 20	17 42.16	-24 26.1	1.789	2.804	1.1	20.0	6 20	17 41.90	-27 42.9	1.808	2.821	1.9	17.7
6 30	17 32.88	-24 33.8	1.810	2.805	5.2	20.3	6 30	17 31.49	-27 31.6	1.825	2.819	5.5	17.9
7 10	17 24.87	-24 38.9	1.856	2.806	9.1	20.5	7 10	17 22.44	-27 15.4	1.869	2.816	9.3	18.1
7 20	17 18.88	-24 42.7	1.927	2.807	12.5	20.7	7 20	17 15.56	-26 56.6	1.937	2.812	12.7	18.3
62381	2000 <i>SO</i> ₁₅₅		6 17.5 357°50	5°5/16.9	18		302369	2002 <i>CA</i> ₂₁		6 17.5 171			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
17018	1999 <i>DB</i> ₁		6 17.5 346°40	1°4/17.4	18		376851	2001 <i>RG</i> ₁₅₂		6 17.5 294°60	9°7/16.6	18	
5 11	18 8.61	-21 54.2	1.103	1.976	19.8	17.6	5 11	18 18.06	-41 48.8	1.613	2.425	17.5	20.3
5 21	18 6.33	-21 34.5	1.033	1.969	15.5	17.3	5 21	18 13.91	-43 25.1	1.528	2.410	14.9	20.1
5 31	18 0.50	-21 14.8	0.981	1.963	10.4	17.0	5 31	18 5.86	-44 52.8	1.462	2.395	12.2	19.9
6 10	17 51.98	-20 55.4	0.948	1.957	4.7	16.7	6 10	17 54.53	-46 2.3	1.419	2.380	10.2	19.7
6 20	17 42.10	-20 36.9	0.938	1.953	2.1	16.5	6 20	17 41.22	-46 45.3	1.399	2.365	9.9	19.6
6 30	17 32.60	-20 20.8	0.950	1.950	7.8	16.8	6 30	17 27.86	-46 57.3	1.402	2.351	11.5	19.7
7 10	17 25.12	-20 9.3	0.983	1.948	13.4	17.1	7 10	17 16.48	-46 40.5	1.427	2.336	14.3	19.8
7 20	17 20.77	-20 3.9	1.035	1.946	18.2	17.4	7 20	17 8.55	-46 1.8	1.472	2.322	17.3	20.0
389056	2008 <i>VY</i> ₆₃		6 17.5 252°96	0°2/17.5	18		240415	2003 <i>UO</i> ₃₁₆		6 17.5 177°58	4°2/17.4	18	
5 11	18 13.40	-23 9.7	2.370	3.188	12.4	21.7	5 11	18 15.90	-34 44.7	2.483	3.285	12.3	21.4
5 21	18 8.23	-23 3.7	2.260	3.165	9.7	21.5	5 21	18 10.21	-35 34.5	2.399	3.287	9.9	21.2
5 31	18 0.91	-22 56.7	2.172	3.142	6.5	21.3	5 31	18 2.22	-36 19.0	2.337	3.288	7.3	21.1
6 10	17 51.96	-22 48.1	2.111	3.118	2.9	21.0	6 10	17 52.53	-36 54.2	2.302	3.289	5.0	20.9
6 20	17 42.11	-22 37.3	2.078	3.093	1.0	20.8	6 20	17 41.98	-37 17.1	2.295	3.289	4.3	20.9
6 30	17 32.28	-22 24.7	2.074	3.068	4.9	21.0	6 30	17 31.60	-37 26.6	2.315	3.289	6.1	21.0
7 10	17 23.40	-22 11.5	2.097	3.041	8.6	21.2	7 10	17 22.38	-37 23.8	2.363	3.289	8.6	21.1
7 20	17 16.24	-21 59.1	2.145	3.014	11.9	21.4	7 20	17 15.09	-37 11.5	2.434	3.287	11.2	21.3
24198	Xiaomengzeng		6 17.5 260°17	1°3/17.5	18		77153	2001 <i>EZ</i> ₈		6 17.5 133°82	1°5/17.6	17	
5 11	18 11.53	-19 45.0	2.081	2.909	13.5	18.7	5 11	18 16.78	-26 32.0	1.759	2.588	15.5	20.6
5 21	18 7.00	-19 43.3	1.982	2.892	10.6	18.5	5 21	18 11.31	-26 49.7	1.687	2.598	12.1	20.4
5 31	18 0.19	-19 43.9	1.905	2.876	7.1	18.2	5 31	18 3.09	-27 5.2	1.637	2.608	8.1	20.2
6 10	17 51.67	-19 46.3	1.853	2.859	3.3	17.9	6 10	17 52.92	-27 15.7	1.611	2.617	3.8	20.0
6 20	17 42.22	-19 50.2	1.828	2.842	1.7	17.8	6 20	17 41.87	-27 19.5	1.612	2.626	1.9	19.9
6 30	17 32.83	-19 55.6	1.831	2.825	5.4	18.0	6 30	17 31.25	-27 16.3	1.640	2.634	5.9	20.1
7 10	17 24.50	-20 2.6	1.860	2.807	9.3	18.2	7 10	17 22.22	-27 7.8	1.694	2.642	9.9	20.4
7 20	17 18.03	-20 12.0	1.913	2.789	12.8	18.4	7 20	17 15.62	-26 56.6	1.770	2.649	13.5	20.6
150333	1999 <i>VD</i> ₁₈₉		6 17.5 199°67	0°6/17.5	18		147744	2005 <i>NV</i> ₃₀		6 17.5 245°51	0°1/17.5	18	
5 11	18 8.89	-21 22.3	2.798	3.616	10.7	21.1	5 11	18 14.08	-23 13.4	1.906	2.735	14.5	21.2
5 21	18 4.25	-21 20.9	2.707	3.613	8.3	20.9	5 21	18 9.23	-23 13.1	1.809	2.721	11.4	21.0
5 31	17 57.99	-21 20.0	2.641	3.611	5.5	20.7	5 31	18 1.81	-23 12.4	1.734	2.707	7.6	20.7
6 10	17 50.58	-21 19.3	2.601	3.607	2.5	20.5	6 10	17 52.43	-23 10.1	1.684	2.692	3.4	20.4
6 20	17 42.62	-21 18.4	2.589	3.604	1.0	20.4	6 20	17 42.00	-23 5.6	1.661	2.676	1.1	20.2
6 30	17 34.81	-21 17.6	2.607	3.600	4.0	20.6	6 30	17 31.68	-22 58.7	1.665	2.660	5.6	20.5
7 10	17 27.83	-21 17.3	2.652	3.597	7.0	20.8	7 10	17 22.61	-22 50.8	1.695	2.644	9.9	20.7
7 20	17 22.21	-21 18.0	2.723	3.592	9.6	21.0	7 20	17 15.68	-22 43.6	1.748	2.627	13.7	20.9
147033	2002 <i>RX</i> ₃₅		6 17.5 309°97	5°1/16.9	17		305886	2009 <i>FQ</i> ₁₈		6 17.5 358°55	6°7/18.0	16	
5 11	18 8.59	-15 21.7	1.330	2.186	18.1	20.2	5 11	18 13.17	-39 22.7	1.806	2.624	15.7	19.8
5 21	18 5.98	-14 34.6	1.233	2.156	14.6	19.8	5 21	18 9.02	-40 5.9	1.730	2.622	12.9	19.6
5 31	18 0.24	-13 50.5	1.154	2.127	10.5	19.5	5 31	18 1.86	-40 38.1	1.675	2.621	10.0	19.5
6 10	17 51.94	-13 12.8	1.097	2.098	6.4	19.2	6 10	17 52.47	-40 54.3	1.642	2.620	7.5	19.3
6 20	17 42.09	-12 44.7	1.063	2.069	5.4	19.1	6 20	17 42.02	-40 50.6	1.633	2.620	6.7	19.3
6 30	17 32.13	-12 29.4	1.052	2.041	9.2	19.2	6 30	17 31.94	-40 26.8	1.650	2.620	8.4	19.4
7 10	17 23.61	-12 28.5	1.063	2.014	14.1	19.4	7 10	17 23.59	-39 46.2	1.690	2.621	11.1	19.5
7 20	17 17.74	-12 42.1	1.092	1.987	18.8	19.5	7 20	17 17.88	-38 54.2	1.753	2.623	14.1	19.7
359398	2010 <i>HT</i> ₁₀₆		6 17.5 323°07	4°8/17.1	17		80130	1999 <i>SZ</i> ₁		6 17.5 332°86	24°2/8.3	18	
5 11	18 11.35	-15 45.1	1.235	2.092	19.2	20.7	5 11	18 8.30	+13 0.7	1.009	1.804	26.7	17.9
5 21	18 7.98	-15 2.2	1.162	2.086	15.2	20.5	5 21	18 6.01	+16 41.0	0.967	1.798	25.3	17.8
5 31	18 1.36	-14 24.3	1.108	2.081	10.7	20.2	5 31	18 0.26	+19 49.0	0.939	1.791	24.4	17.7
6 10	17 52.30	-13 54.4	1.074	2.076	6.3	19.9	6 10	17 51.89	+22 8.1	0.925	1.786	24.2	17.6
6 20	17 42.02	-13 34.9	1.064	2.072	5.0	19.8	6 20	17 42.19	+23 26.5	0.925	1.781	24.7	17.6
6 30	17 32.07	-13 27.7	1.077	2.068	8.8	20.0	6 30	17 32.83	+23 39.1	0.938	1.777	25.7	17.7
7 10	17 23.92	-13 33.5	1.112	2.064	13.5	20.3	7 10	17 25.41	+22 50.4	0.962	1.773	27.1	17.8
7 20	17 18.62	-13 51.2	1.166	2.061	17.9	20.5	7 20	17 21.00	+21 10.5	0.996	1.770	28.7	17.9
435865	2008 <i>YP</i> ₁₂		6 17.5 240°94	0°7/17.4	18		468038	2013 <i>QD</i> ₂₇		6 17.5 266°89	5°4/17.3	17	
5 11	18 12.96	-23 42.8	2.113	2.938	13.4	21.0	5 11	18 11.24	-11 31.3	1.647	2.478	16.3	21.3
5 21	18 7.94	-23 8.1	2.019	2.928	10.5	20.8	5 21	18 7.15	-11 0.4	1.562	2.469	13.2	21.1
5 31	18 0.69	-22 30.0	1.947	2.919	7.0	20.6	5 31	18 0.48	-10 37.7	1.498	2.459	9.6	20.9
6 10	17 51.83	-21 48.8	1.901	2.908	3.1	20.3	6 10	17 51.85	-10 25.8	1.456	2.449	6.4	20.7
6 20	17 42.20	-21 5.5	1.883	2.898	1.3	20.2	6 20	17 42.21	-10 26.3	1.439	2.440	5.5	20.6
6 30	17 32.80	-20 22.1	1.894	2.887	5.2	20.4	6 30	17 32.73	-10 40.0	1.448	2.430	8.1	20.7
7 10	17 24.60	-19 41.1	1.931	2.876	9.1	20.6	7 10	17 24.56	-11 6.1	1.481	2.420	11.8	20.9
7 20	17 18.31	-19 4.9	1.992	2.865	12.5	20.8	7 20	17 18.58	-11 42.8	1.535	2.410	15.5	21.1
512887	2016 <i>WA</i> ₂₅		6 17.5 249°24	0°2/17.5	18		33548	1999 <i>JC</i> ₁₃		6 17.5 337°76	9°3/16.1	18	
5 11	18 9.62	-23 45.1	2.646	3.466	11.2	22.6	5 11	18 7.82	-5 31.9	1.525	2.354	17.5	17.7
5 21	18 5.03	-23 51.0	2.547	3.454	8.7	22.4	5 21	18 4.54	-4 8.0	1.452	2.347	14.7	17.5
5 31	17 58.63	-23 56.5	2.470	3.441	5.8	22.2	5 31	17 58.72	-2 55.2	1.398	2.341	11.8	17.3
6 10	17 50.91	-24 0.6	2.420	3.428	2.6	22.0	6 10	17 51.06	-1 59.5	1.366	2.335	9.7	17.2
6 20	17 42.51	-24 2.8	2.399	3.414	0.9	21.8	6 20	17 42.49	-1 25.8	1.357	2.330	9.5	17.1
6 30	17 34.20	-24 2.8	2.406	3.400	4.2	22.0	6 30	17 34.17	-1 16.8	1.371	2.325	11.3	17.2
7 10	17 26.75	-24 1.3	2.441	3.387	7.4	22.2	7 10	17 27.22	-1 31.9	1.407	2.321	14.1	17.4
7 20	17 20.77	-23 59.2	2.500	3.372	10.3	22.4	7 20	17 22.44	-2 7.8	1.462	2.318	17.1	17.6
478081	2011 <i>UX</i> ₂₉		6 17.5 220°19	2°5/17.2	18		2646	Abetti		6 17.			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
124811	2001 <i>ST</i> ₂₈₂		6 17.5 253°24	4°5/17.8	18	R	480186	2015 <i>FY</i> ₃₃₂		6 17.5 42°22	7°5/17.8	17	
5 11	18 16.90	-34 53.3	2.018	2.830	14.4	19.0	5 11	18 9.23	-5 21.0	1.644	2.464	16.8	20.7
5 21	18 11.65	-35 21.3	1.917	2.813	11.7	18.8	5 21	18 5.29	-4 48.6	1.583	2.475	13.9	20.6
5 31	18 3.55	-35 42.1	1.839	2.795	8.5	18.5	5 31	17 59.02	-4 30.6	1.542	2.487	10.8	20.4
6 10	17 53.25	-35 51.4	1.784	2.776	5.6	18.3	6 10	17 51.13	-4 30.0	1.523	2.499	8.2	20.3
6 20	17 41.75	-35 45.9	1.757	2.757	4.6	18.2	6 20	17 42.56	-4 48.1	1.528	2.512	7.5	20.3
6 30	17 30.35	-35 24.8	1.756	2.738	6.9	18.3	6 30	17 34.36	-5 24.3	1.558	2.525	9.1	20.4
7 10	17 20.37	-34 50.7	1.781	2.718	10.3	18.5	7 10	17 27.52	-6 15.9	1.612	2.538	11.9	20.6
7 20	17 12.77	-34 7.8	1.829	2.697	13.7	18.7	7 20	17 22.73	-7 18.8	1.687	2.552	14.8	20.8
65108	2002 <i>CR</i> ₃₃		6 17.5 337°94	1°9/17.5	18	R	398919	2013 <i>CW</i> ₁₆₅		6 17.5 257°05	4°5/17.3	18	
5 11	18 10.89	-27 35.1	2.262	3.086	12.7	19.5	5 11	18 7.79	-9 51.2	2.378	3.190	12.5	21.0
5 21	18 6.35	-28 4.3	2.178	3.086	9.9	19.3	5 21	18 3.62	-9 30.0	2.293	3.186	10.1	20.9
5 31	17 59.65	-28 31.8	2.117	3.085	6.7	19.1	5 31	17 57.70	-9 16.0	2.230	3.183	7.5	20.7
6 10	17 51.41	-28 55.2	2.081	3.085	3.4	18.9	6 10	17 50.52	-9 11.0	2.193	3.179	5.2	20.5
6 20	17 42.39	-29 12.5	2.073	3.085	2.1	18.8	6 20	17 42.75	-9 15.8	2.182	3.176	4.6	20.5
6 30	17 33.55	-29 23.0	2.093	3.085	5.0	19.0	6 30	17 35.13	-9 30.5	2.198	3.172	6.3	20.6
7 10	17 25.83	-29 27.3	2.139	3.084	8.3	19.2	7 10	17 28.40	-9 54.6	2.241	3.169	8.9	20.8
7 20	17 19.92	-29 26.9	2.209	3.084	11.4	19.4	7 20	17 23.15	-10 26.6	2.307	3.165	11.6	20.9
69488	1997 <i>AV</i> ₃		6 17.5 212°11	1°4/17.4	18		331416	2012 <i>FW</i> ₆₄		6 17.5 112°90	1°5/17.5	16	
5 11	18 15.11	-20 4.2	1.982	2.805	14.3	20.4	5 11	18 15.46	-19 36.9	1.712	2.544	15.8	22.2
5 21	18 9.79	-19 54.3	1.890	2.798	11.2	20.2	5 21	18 10.12	-19 31.6	1.646	2.559	12.3	22.0
5 31	18 2.04	-19 45.7	1.820	2.791	7.5	20.0	5 31	18 2.21	-19 28.7	1.601	2.573	8.2	21.7
6 10	17 52.49	-19 38.2	1.776	2.782	3.5	19.7	6 10	17 52.53	-19 28.0	1.581	2.587	3.8	21.5
6 20	17 42.02	-19 31.7	1.759	2.773	1.8	19.6	6 20	17 42.11	-19 29.0	1.587	2.601	1.9	21.4
6 30	17 31.72	-19 26.5	1.770	2.763	5.7	19.8	6 30	17 32.14	-19 31.9	1.620	2.615	5.9	21.7
7 10	17 22.65	-19 23.6	1.807	2.752	9.7	20.0	7 10	17 23.72	-19 37.1	1.679	2.627	10.0	22.0
7 20	17 15.62	-19 23.8	1.868	2.740	13.2	20.2	7 20	17 17.59	-19 45.1	1.761	2.640	13.6	22.2
342806	2008 <i>WU</i> ₁₄₁		6 17.5 124°68	0°0/17.5	17		182925	2002 <i>EG</i> ₁₆₁		6 17.5 64°05	7°6/17.7	18	
5 11	18 12.88	-23 34.8	2.280	3.101	12.7	21.9	5 11	18 7.55	-0 8.8	2.308	3.090	13.7	20.3
5 21	18 7.58	-23 34.7	2.206	3.114	9.8	21.7	5 21	18 3.38	+0 23.6	2.238	3.097	11.7	20.1
5 31	18 0.28	-23 33.7	2.156	3.126	6.5	21.5	5 31	17 57.48	+0 42.4	2.189	3.104	9.6	20.0
6 10	17 51.60	-23 31.1	2.132	3.139	2.8	21.3	6 10	17 50.41	+0 44.8	2.163	3.111	8.0	19.9
6 20	17 42.35	-23 26.3	2.135	3.151	0.9	21.2	6 20	17 42.81	+0 29.6	2.162	3.118	7.7	19.9
6 30	17 33.43	-23 19.7	2.168	3.162	4.6	21.5	6 30	17 35.43	-0 3.1	2.187	3.125	8.6	20.0
7 10	17 25.67	-23 12.2	2.227	3.173	8.0	21.7	7 10	17 28.99	-0 51.3	2.237	3.132	10.5	20.1
7 20	17 19.70	-23 5.1	2.311	3.184	11.0	21.9	7 20	17 24.04	-1 52.0	2.309	3.139	12.5	20.2
508087	2015 <i>DT</i> ₉₉		6 17.5 132°18	3°8/17.8	17		35393	1997 <i>XJ</i> ₅		6 17.5 204°80	3°2/17.3	18	
5 11	18 12.40	-11 5.8	2.164	2.974	13.7	21.4	5 11	18 14.63	-16 41.3	1.754	2.583	15.6	19.5
5 21	18 7.25	-11 10.2	2.090	2.985	10.9	21.3	5 21	18 9.62	-16 14.3	1.670	2.579	12.3	19.3
5 31	18 0.10	-11 23.1	2.037	2.995	7.7	21.1	5 31	18 2.02	-15 50.8	1.606	2.575	8.5	19.1
6 10	17 51.56	-11 45.0	2.010	3.004	4.8	20.9	6 10	17 52.53	-15 31.8	1.568	2.570	4.7	18.8
6 20	17 42.37	-12 15.4	2.011	3.013	3.9	20.9	6 20	17 42.09	-15 18.4	1.555	2.564	3.4	18.7
6 30	17 33.44	-12 53.3	2.039	3.022	6.0	21.0	6 30	17 31.89	-15 11.6	1.569	2.558	6.8	18.9
7 10	17 25.60	-13 37.1	2.095	3.030	9.1	21.2	7 10	17 23.06	-15 12.0	1.609	2.552	10.8	19.1
7 20	17 19.49	-14 25.0	2.174	3.038	11.9	21.4	7 20	17 16.44	-15 19.8	1.671	2.544	14.5	19.4
30427	2000 <i>LX</i> ₈		6 17.5 297°84	1°0/17.4	18		504029	2005 <i>TZ</i> ₁₁₇		6 17.5 209°98	3°0/17.7	17	
5 11	18 9.53	-20 52.7	1.982	2.817	13.8	18.5	5 11	18 15.79	-30 33.7	2.019	2.839	14.2	22.8
5 21	18 5.53	-20 45.8	1.890	2.804	10.8	18.3	5 21	18 10.52	-30 59.3	1.931	2.835	11.2	22.6
5 31	17 59.26	-20 40.0	1.819	2.792	7.2	18.1	5 31	18 2.64	-31 20.5	1.865	2.829	7.8	22.4
6 10	17 51.29	-20 35.0	1.772	2.780	3.3	17.8	6 10	17 52.81	-31 34.1	1.823	2.824	4.4	22.1
6 20	17 42.45	-20 30.8	1.753	2.767	1.5	17.6	6 20	17 42.00	-31 37.6	1.809	2.818	3.1	22.1
6 30	17 33.74	-20 27.6	1.760	2.755	5.4	17.9	6 30	17 31.39	-31 30.4	1.822	2.811	6.0	22.2
7 10	17 26.17	-20 26.2	1.793	2.743	9.3	18.1	7 10	17 22.16	-31 14.2	1.861	2.804	9.5	22.4
7 20	17 20.50	-20 27.4	1.849	2.731	12.9	18.3	7 20	17 15.14	-30 52.4	1.924	2.797	12.9	22.6
177112	2003 <i>GU</i> ₁₀		6 17.5 114°73	7°2/17.6	18		118033	2904 <i>T-2</i>		6 17.5 278°63	0°5/17.6	18	
5 11	18 8.47	-0 8.8	2.508	3.284	13.0	20.4	5 11	18 10.49	-24 36.9	2.338	3.163	12.3	20.6
5 21	18 3.90	+0 25.0	2.441	3.295	11.0	20.3	5 21	18 6.07	-24 43.8	2.232	3.141	9.6	20.4
5 31	17 57.72	+0 46.3	2.394	3.306	9.0	20.2	5 31	17 59.55	-24 49.9	2.149	3.120	6.4	20.1
6 10	17 50.47	+0 52.5	2.372	3.317	7.6	20.1	6 10	17 51.44	-24 54.0	2.091	3.098	2.9	19.9
6 20	17 42.76	+0 42.6	2.376	3.328	7.2	20.1	6 20	17 42.45	-24 55.1	2.061	3.076	1.1	19.7
6 30	17 35.29	+0 16.4	2.406	3.339	8.2	20.2	6 30	17 33.49	-24 53.1	2.059	3.054	4.8	19.9
7 10	17 28.70	-0 24.3	2.460	3.349	9.9	20.3	7 10	17 25.48	-24 48.5	2.084	3.032	8.4	20.1
7 20	17 23.52	-1 16.9	2.538	3.359	11.8	20.5	7 20	17 19.17	-24 42.9	2.133	3.009	11.7	20.2
482209	2010 <i>VB</i> ₂₁₃		6 17.5 311°17	2°2/17.9	18		126571	2002 <i>CN</i> ₁₁₀		6 17.5 23°02	0°5/17.5	18	R
5 11	18 11.15	-31 11.7	2.192	3.015	13.1	20.9	5 11	18 9.14	-24 14.3	1.927	2.765	14.0	19.6
5 21	18 6.63	-31 1.9	2.101	3.007	10.3	20.7	5 21	18 5.19	-24 23.8	1.854	2.771	10.9	19.4
5 31	17 59.87	-30 45.3	2.032	2.998	7.1	20.4	5 31	17 58.96	-24 32.7	1.802	2.777	7.2	19.2
6 10	17 51.51	-30 20.4	1.988	2.990	3.8	20.2	6 10	17 51.14	-24 39.7	1.776	2.783	3.2	19.0
6 20	17 42.41	-29 46.6	1.971	2.983	2.4	20.1	6 20	17 42.58	-24 44.0	1.775	2.790	1.1	18.8
6 30	17 33.58	-29 5.3	1.982	2.975	5.2	20.3	6 30	17 34.33	-24 45.2	1.801	2.798	5.1	19.1
7 10	17 25.98	-28 19.1	2.020	2.968	8.6	20.5	7 10	17 27.35	-24 44.4	1.853	2.806	8.9	19.4
7 20	17 20.31	-27 31.4	2.081	2.960	11.8	20.7	7 20	17 22.35	-24 42.7	1.928	2.814	12.3	19.6
29933	1999 <i>JG</i> ₄₆		6 17.5 276°23	4°9/16.9	18		382983	2005 <i>CS</i> ₁₉					

EPHEMERIDES

6 17.5

6 17.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
173001	2006 <i>MH</i> ₁₅		6 17.5 158°73	2°7/17.5 17			394328	2006 <i>WJ</i> ₁₆₆		6 17.5 240°56	0°7/17.6 17		
5 11	18 14.86	-16 0.7	2.014	2.833	14.2	20.7	5 11	18 10.52	-24 59.2	2.255	3.081	12.7	21.6
5 21	18 9.35	-15 50.9	1.937	2.840	11.2	20.5	5 21	18 6.02	-25 9.8	2.169	3.079	9.8	21.4
5 31	18 1.60	-15 45.6	1.882	2.847	7.7	20.3	5 31	17 59.44	-25 19.4	2.106	3.077	6.5	21.2
6 10	17 52.27	-15 45.3	1.852	2.853	4.1	20.1	6 10	17 51.37	-25 26.6	2.068	3.075	3.0	20.9
6 20	17 42.22	-15 49.9	1.849	2.859	2.9	20.0	6 20	17 42.57	-25 30.4	2.058	3.073	1.2	20.8
6 30	17 32.45	-15 59.5	1.875	2.863	5.9	20.2	6 30	17 33.97	-25 30.7	2.076	3.071	4.7	21.0
7 10	17 23.93	-16 13.8	1.927	2.867	9.4	20.4	7 10	17 26.45	-25 28.2	2.120	3.069	8.2	21.2
7 20	17 17.36	-16 32.5	2.003	2.871	12.7	20.6	7 20	17 20.70	-25 24.2	2.189	3.067	11.3	21.4
481110	2005 <i>TY</i> ₁₁₉		6 17.5 312°19	1°4/17.6 18			442058	2010 <i>RN</i> ₁₀₇		6 17.5 251°67	5°2/17.6 18		
5 11	18 9.57	-26 30.3	1.957	2.793	13.9	21.3	5 11	18 13.30	-38 0.2	2.448	3.249	12.5	21.2
5 21	18 5.78	-26 43.6	1.861	2.776	10.9	21.0	5 21	18 8.38	-38 45.8	2.362	3.246	10.2	21.1
5 31	17 59.56	-26 55.2	1.787	2.760	7.4	20.8	5 31	18 1.12	-39 23.9	2.300	3.243	7.8	20.9
6 10	17 51.50	-27 3.1	1.737	2.743	3.5	20.5	6 10	17 52.15	-39 50.7	2.262	3.240	5.8	20.8
6 20	17 42.44	-27 5.8	1.713	2.728	1.7	20.4	6 20	17 42.31	-40 3.3	2.250	3.236	5.2	20.7
6 30	17 33.48	-27 2.9	1.717	2.712	5.5	20.6	6 30	17 32.65	-40 0.7	2.266	3.233	6.6	20.8
7 10	17 25.71	-26 55.5	1.745	2.697	9.5	20.8	7 10	17 24.20	-39 44.6	2.308	3.230	9.0	21.0
7 20	17 19.97	-26 45.5	1.797	2.682	13.0	21.0	7 20	17 17.71	-39 18.3	2.373	3.227	11.4	21.1
302018	2000 <i>SV</i> ₉₂		6 17.5 241°33	2°0/17.2 18			119899	2002 <i>CM</i> ₂₉₉		6 17.5 106°49	1°6/17.7 18		
5 11	18 9.86	-18 38.8	2.578	3.396	11.5	21.1	5 11	18 10.70	-28 7.0	2.323	3.146	12.4	20.5
5 21	18 5.18	-18 9.4	2.479	3.384	9.0	20.9	5 21	18 6.11	-28 17.1	2.240	3.147	9.7	20.3
5 31	17 58.72	-17 40.7	2.404	3.371	6.1	20.7	5 31	17 59.46	-28 24.0	2.179	3.148	6.5	20.1
6 10	17 50.99	-17 13.2	2.355	3.358	3.2	20.5	6 10	17 51.36	-28 26.1	2.145	3.149	3.2	19.9
6 20	17 42.64	-16 48.0	2.335	3.345	2.2	20.4	6 20	17 42.59	-28 22.4	2.137	3.150	1.8	19.8
6 30	17 34.42	-16 26.2	2.343	3.332	4.8	20.6	6 30	17 34.05	-28 12.8	2.158	3.151	4.8	20.0
7 10	17 27.07	-16 8.8	2.378	3.318	7.9	20.7	7 10	17 26.62	-27 58.7	2.205	3.152	8.0	20.2
7 20	17 21.19	-15 56.6	2.439	3.304	10.8	20.9	7 20	17 20.96	-27 42.1	2.277	3.153	11.0	20.4
191737	2004 <i>RE</i> ₃₂₆		6 17.5 205°80	5°1/18.1 18			113672	2002 <i>TN</i> ₉₆		6 17.5 212°29	2°6/17.5 18		
5 11	18 17.47	-38 14.7	2.259	3.057	13.5	20.7	5 11	18 13.33	-16 31.9	1.905	2.731	14.7	20.0
5 21	18 11.71	-38 41.7	2.170	3.053	11.1	20.5	5 21	18 8.48	-16 25.4	1.818	2.726	11.5	19.8
5 31	18 3.36	-38 59.5	2.103	3.048	8.3	20.3	5 31	18 1.23	-16 23.7	1.753	2.721	7.9	19.6
6 10	17 53.11	-39 3.9	2.062	3.043	6.0	20.2	6 10	17 52.22	-16 27.0	1.712	2.715	4.2	19.3
6 20	17 41.96	-38 52.3	2.046	3.037	5.2	20.1	6 20	17 42.30	-16 35.2	1.698	2.709	2.8	19.2
6 30	17 31.09	-38 24.6	2.059	3.031	6.8	20.2	6 30	17 32.55	-16 48.2	1.711	2.702	6.1	19.4
7 10	17 21.65	-37 43.5	2.097	3.024	9.5	20.3	7 10	17 24.02	-17 5.8	1.750	2.695	9.9	19.6
7 20	17 14.46	-36 53.6	2.159	3.017	12.2	20.5	7 20	17 17.50	-17 27.6	1.813	2.687	13.5	19.8
440552	2005 <i>UF</i> ₂₆₁		6 17.5 273°82	1°9/17.3 18			116267	2003 <i>YX</i> ₃₃		6 17.5 219°94	2°7/17.5 18		
5 11	18 8.86	-18 35.1	2.398	3.222	12.1	21.9	5 11	18 10.49	-15 44.1	2.016	2.843	13.9	19.9
5 21	18 4.60	-18 15.9	2.298	3.206	9.5	21.7	5 21	18 6.10	-15 38.5	1.933	2.841	10.9	19.7
5 31	17 58.45	-17 58.1	2.221	3.190	6.4	21.4	5 31	17 59.55	-15 37.9	1.872	2.840	7.5	19.5
6 10	17 50.92	-17 42.3	2.170	3.174	3.3	21.2	6 10	17 51.44	-15 43.0	1.836	2.838	4.1	19.3
6 20	17 42.68	-17 29.0	2.147	3.158	2.1	21.1	6 20	17 42.56	-15 53.6	1.827	2.837	2.9	19.2
6 30	17 34.53	-17 18.9	2.151	3.142	5.0	21.3	6 30	17 33.89	-16 9.6	1.845	2.835	5.8	19.4
7 10	17 27.29	-17 12.7	2.183	3.126	8.3	21.4	7 10	17 26.34	-16 30.4	1.889	2.834	9.3	19.6
7 20	17 21.58	-17 11.1	2.238	3.110	11.4	21.6	7 20	17 20.62	-16 55.5	1.956	2.832	12.6	19.8
58685	1998 <i>BP</i>		6 17.5 133°46	2°9/17.6 18			89364	2001 <i>VK</i> ₆₁		6 17.5 153°81	0°2/17.5 18		
5 11	18 17.60	-29 1.7	1.628	2.459	16.5	19.8	5 11	18 13.73	-22 18.6	2.030	2.856	13.9	19.9
5 21	18 12.32	-29 32.9	1.556	2.467	12.9	19.6	5 21	18 8.62	-22 27.2	1.951	2.861	10.8	19.7
5 31	18 3.99	-30 0.4	1.506	2.475	8.9	19.4	5 31	18 1.20	-22 36.7	1.895	2.866	7.1	19.5
6 10	17 53.44	-30 20.2	1.479	2.482	4.7	19.1	6 10	17 52.15	-22 45.7	1.864	2.871	3.1	19.3
6 20	17 41.86	-30 29.4	1.478	2.489	3.1	19.0	6 20	17 42.34	-22 53.2	1.860	2.875	1.0	19.1
6 30	17 30.70	-30 27.4	1.503	2.495	6.6	19.3	6 30	17 32.80	-22 58.9	1.884	2.879	5.1	19.4
7 10	17 21.31	-30 16.1	1.554	2.501	10.7	19.5	7 10	17 24.52	-23 3.5	1.935	2.883	8.9	19.6
7 20	17 14.61	-29 59.3	1.626	2.507	14.4	19.8	7 20	17 18.21	-23 7.8	2.009	2.886	12.3	19.9
49140	1998 <i>SU</i> ₄₀		6 17.5 191°50	0°4/17.5 18			398920	2013 <i>CP</i> ₁₆₈		6 17.5 157°10	3°9/17.7 18		
5 11	18 14.30	-22 42.6	1.824	2.655	15.0	20.0	5 11	18 12.74	-34 55.0	2.513	3.320	12.1	21.1
5 21	18 9.35	-22 37.8	1.742	2.655	11.7	19.7	5 21	18 7.71	-35 28.1	2.430	3.322	9.7	21.0
5 31	18 1.84	-22 32.8	1.681	2.654	7.8	19.5	5 31	18 0.55	-35 55.0	2.371	3.324	7.1	20.8
6 10	17 52.46	-22 26.7	1.645	2.652	3.4	19.2	6 10	17 51.86	-36 12.8	2.337	3.326	4.7	20.7
6 20	17 42.19	-22 18.9	1.635	2.650	1.2	19.1	6 20	17 42.44	-36 19.1	2.330	3.328	4.0	20.6
6 30	17 32.19	-22 10.0	1.652	2.648	5.7	19.4	6 30	17 33.25	-36 13.7	2.352	3.330	5.7	20.7
7 10	17 23.59	-22 1.1	1.696	2.645	9.8	19.6	7 10	17 25.20	-35 58.1	2.399	3.331	8.2	20.9
7 20	17 17.19	-21 54.0	1.762	2.642	13.5	19.8	7 20	17 18.96	-35 34.9	2.471	3.333	10.8	21.1
178184	2006 <i>UM</i> ₁₆₀		6 17.5 2°86	2°1/17.5 17			35281	1996 <i>SD</i> ₆		6 17.5 319°50	0°7/17.6 18		
5 11	18 7.28	-24 54.4	1.051	1.930	20.2	19.7	5 11	18 9.24	-24 26.1	1.418	2.274	17.2	19.1
5 21	18 5.58	-25 34.9	0.989	1.928	15.8	19.5	5 21	18 6.45	-24 34.1	1.327	2.254	13.5	18.9
5 31	18 0.19	-26 17.2	0.944	1.927	10.6	19.2	5 31	18 0.53	-24 41.7	1.255	2.233	9.1	18.5
6 10	17 51.97	-26 57.1	0.919	1.928	5.0	18.9	6 10	17 52.13	-24 47.3	1.205	2.214	4.1	18.2
6 20	17 42.33	-27 30.3	0.916	1.930	2.6	18.7	6 20	17 42.31	-24 49.2	1.179	2.195	1.5	18.0
6 30	17 33.09	-27 54.3	0.934	1.934	7.9	19.0	6 30	17 32.53	-24 46.9	1.177	2.176	6.8	18.3
7 10	17 26.02	-28 9.4	0.973	1.940	13.2	19.4	7 10	17 24.31	-24 41.7	1.199	2.159	11.9	18.5
7 20	17 22.23	-28 18.0	1.031	1.946	17.9	19.6	7 20	17 18.78	-24 35.8	1.240	2.142	16.5	18.7
178710	2000 <i>SS</i> ₂₀₇		6 17.5 252°19	4°9/16.9 18			155290	Anniegrauer					

EPHEMERIDES

6 17.5

6 17.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V	
509827	2008 <i>WK</i> ₁₁₁	6 17.5 200°22 1°7/17.5 17						314012	2004 <i>VS</i> ₆₃	6 17.5 274°46 0°9/17.5 18				
5 11	18 13.05	-26 41.5	2.014	2.841	13.9	21.9	5 11	18 15.99	-22 48.9	1.538	2.377	16.9	20.5	
5 21	18 8.30	-27 9.4	1.930	2.840	10.9	21.7	5 21	18 11.73	-23 27.5	1.435	2.352	13.4	20.2	
5 31	18 1.14	-27 36.0	1.869	2.839	7.3	21.5	5 31	18 4.16	-24 11.1	1.353	2.328	9.1	19.9	
6 10	17 52.19	-27 58.8	1.833	2.838	3.6	21.2	6 10	17 53.84	-24 56.6	1.295	2.302	4.1	19.5	
6 20	17 42.34	-28 15.6	1.824	2.837	2.0	21.1	6 20	17 41.76	-25 40.3	1.262	2.277	1.7	19.3	
6 30	17 32.70	-28 25.4	1.842	2.835	5.4	21.3	6 30	17 29.43	-26 18.7	1.255	2.251	7.0	19.6	
7 10	17 24.32	-28 29.1	1.886	2.834	9.1	21.6	7 10	17 18.49	-26 50.7	1.272	2.224	12.2	19.8	
7 20	17 18.00	-28 28.3	1.954	2.832	12.5	21.8	7 20	17 10.24	-27 17.2	1.311	2.197	16.8	20.0	
89941	2002 <i>FZ</i> ₂₀	6 17.5 358°19 10°1/17.2 18						119067	2001 <i>KP</i> ₇₆	6 17.6 302°93 0°1/17.7 07 C				
5 11	18 19.80	-50 3.7	2.209	2.969	14.9	19.1	5 11	17 48.04	-28 30.2	39.867	40.677	0.9	22.8	
5 21	18 14.53	-51 33.4	2.137	2.968	13.2	19.0	5 21	17 47.28	-28 30.9	39.771	40.672	0.7	22.8	
5 31	18 5.83	-52 49.3	2.085	2.968	11.5	18.9	5 31	17 46.43	-28 31.4	39.701	40.667	0.4	22.7	
6 10	17 54.43	-53 44.0	2.055	2.968	10.4	18.8	6 10	17 45.53	-28 31.6	39.659	40.662	0.2	22.7	
6 20	17 41.57	-54 12.0	2.049	2.968	10.1	18.8	6 20	17 44.60	-28 31.6	39.645	40.657	0.1	22.7	
6 30	17 28.92	-54 11.4	2.066	2.968	10.9	18.8	6 30	17 43.67	-28 31.3	39.661	40.652	0.3	22.7	
7 10	17 18.11	-53 45.1	2.106	2.968	12.4	18.9	7 10	17 42.79	-28 30.8	39.704	40.647	0.5	22.7	
7 20	17 10.29	-52 58.8	2.166	2.968	14.1	19.0	7 20	17 41.98	-28 30.1	39.775	40.642	0.8	22.8	
89921	2002 <i>EH</i> ₄₅	6 17.5 294°25 3°1/17.3 18						114619	2003 <i>EP</i>	6 17.6 120°10 12°9/17.8 17				
5 11	18 10.80	-16 53.9	1.736	2.572	15.4	19.3	5 11	18 12.12	+12 44.5	2.085	2.802	16.9	20.6	
5 21	18 7.02	-16 30.8	1.630	2.544	12.3	19.0	5 21	18 7.03	+14 4.1	2.035	2.817	15.4	20.5	
5 31	18 0.61	-16 10.9	1.545	2.516	8.5	18.7	5 31	17 59.96	+15 1.6	2.003	2.832	14.1	20.5	
6 10	17 52.10	-15 55.4	1.484	2.487	4.7	18.4	6 10	17 51.57	+15 31.7	1.991	2.847	13.2	20.4	
6 20	17 42.34	-15 45.3	1.448	2.458	3.4	18.3	6 20	17 42.63	+15 31.6	2.000	2.861	12.9	20.4	
6 30	17 32.51	-15 41.9	1.438	2.429	7.0	18.4	6 30	17 34.05	+15 1.0	2.030	2.875	13.5	20.5	
7 10	17 23.82	-15 45.7	1.453	2.400	11.3	18.6	7 10	17 26.64	+14 3.2	2.081	2.888	14.5	20.6	
7 20	17 17.27	-15 57.1	1.489	2.371	15.4	18.8	7 20	17 21.00	+12 43.3	2.152	2.900	15.8	20.7	
346681	2008 <i>YG</i> ₅₀	6 17.5 212°44 0°7/17.6 17						141980	2002 <i>PZ</i> ₁₃₀	6 17.6 275°35 0°7/17.6 18				
5 11	18 12.46	-25 8.8	2.343	3.164	12.4	22.2	5 11	18 14.37	-24 12.0	1.666	2.503	15.9	20.3	
5 21	18 7.49	-25 20.2	2.252	3.159	9.7	22.0	5 21	18 10.09	-24 27.9	1.565	2.481	12.6	20.0	
5 31	18 0.42	-25 30.4	2.183	3.153	6.5	21.8	5 31	18 2.83	-24 44.5	1.484	2.458	8.5	19.7	
6 10	17 51.83	-25 38.0	2.140	3.147	2.9	21.5	6 10	17 53.15	-24 59.6	1.427	2.434	3.9	19.4	
6 20	17 42.48	-25 42.0	2.125	3.140	1.2	21.4	6 20	17 42.04	-25 11.0	1.395	2.410	1.4	19.1	
6 30	17 33.28	-25 42.0	2.139	3.133	4.7	21.6	6 30	17 30.85	-25 17.5	1.390	2.386	6.4	19.4	
7 10	17 25.13	-25 38.9	2.180	3.126	8.2	21.8	7 10	17 21.02	-25 19.9	1.409	2.362	11.2	19.6	
7 20	17 18.72	-25 34.1	2.245	3.118	11.3	22.0	7 20	17 13.65	-25 20.0	1.451	2.337	15.5	19.8	
43022	1999 <i>VR</i> ₇	6 17.5 17°45 3°6/17.3 18						98269	2000 <i>SL</i> ₂₀₀	6 17.6 198°16 3°7/17.7 17				
5 11	18 12.35	-31 3.6	2.240	3.059	12.9	18.1	5 11	18 18.42	-31 32.5	1.777	2.599	15.7	20.6	
5 21	18 7.69	-32 1.2	2.158	3.061	10.3	18.0	5 21	18 12.98	-32 3.9	1.693	2.597	12.5	20.4	
5 31	18 0.71	-32 56.0	2.100	3.062	7.3	17.8	5 31	18 4.51	-32 30.0	1.630	2.594	8.8	20.1	
6 10	17 52.01	-33 44.4	2.067	3.063	4.5	17.6	6 10	17 53.77	-32 46.5	1.592	2.590	5.1	19.9	
6 20	17 42.41	-34 22.8	2.062	3.065	3.7	17.6	6 20	17 41.88	-32 50.2	1.579	2.586	3.9	19.8	
6 30	17 32.95	-34 49.5	2.084	3.067	5.9	17.7	6 30	17 30.26	-32 40.4	1.594	2.582	6.8	20.0	
7 10	17 24.65	-35 4.9	2.132	3.068	8.9	17.9	7 10	17 20.27	-32 19.3	1.634	2.576	10.6	20.2	
7 20	17 18.29	-35 11.1	2.204	3.070	11.7	18.1	7 20	17 12.89	-31 51.2	1.696	2.571	14.2	20.4	
423975	2006 <i>UO</i> ₃₃₁	6 17.5 228°37 1°2/17.5 17						206095	2002 <i>RG</i> ₁₅₅	6 17.6 286°22 1°2/17.7 17				
5 11	18 14.04	-20 6.2	1.882	2.710	14.7	22.5	5 11	18 11.68	-26 51.0	1.946	2.778	14.1	20.6	
5 21	18 9.18	-20 7.2	1.790	2.701	11.5	22.2	5 21	18 7.35	-26 53.1	1.857	2.770	11.1	20.3	
5 31	18 1.80	-20 10.5	1.721	2.692	7.7	22.0	5 31	18 0.57	-26 52.2	1.789	2.761	7.4	20.1	
6 10	17 52.52	-20 15.6	1.676	2.682	3.6	21.7	6 10	17 51.98	-26 46.6	1.746	2.752	3.5	19.8	
6 20	17 42.24	-20 21.7	1.658	2.672	1.6	21.5	6 20	17 42.48	-26 35.3	1.729	2.743	1.6	19.7	
6 30	17 32.10	-20 28.6	1.667	2.661	5.7	21.8	6 30	17 33.18	-26 18.8	1.739	2.735	5.4	19.9	
7 10	17 23.21	-20 36.7	1.702	2.650	9.9	22.0	7 10	17 25.16	-25 58.7	1.775	2.726	9.4	20.1	
7 20	17 16.42	-20 46.6	1.760	2.639	13.6	22.2	7 20	17 19.22	-25 37.5	1.835	2.718	12.9	20.3	
91370	1999 <i>JQ</i> ₉₄	6 17.5 42°98 6°0/18.4 17						385014	2012 <i>TH</i> ₂₆₆	6 17.6 335°70 2°3/17.4 17				
5 11	18 11.76	-7 13.2	1.508	2.335	17.8	19.2	5 11	18 9.96	-18 25.8	1.736	2.576	15.2	21.1	
5 21	18 7.57	-7 21.3	1.444	2.345	14.4	19.0	5 21	18 6.08	-18 8.3	1.655	2.572	11.9	20.9	
5 31	18 0.74	-7 45.6	1.400	2.355	10.7	18.8	5 31	17 59.74	-17 53.5	1.596	2.569	8.1	20.6	
6 10	17 52.02	-8 27.2	1.377	2.366	7.3	18.6	6 10	17 51.61	-17 42.2	1.560	2.565	4.1	20.4	
6 20	17 42.44	-9 25.2	1.379	2.377	6.1	18.6	6 20	17 42.61	-17 34.9	1.550	2.562	2.6	20.3	
6 30	17 33.22	-10 36.8	1.407	2.389	8.2	18.7	6 30	17 33.85	-17 32.2	1.566	2.559	6.2	20.5	
7 10	17 25.51	-11 57.5	1.459	2.401	11.7	18.9	7 10	17 26.41	-17 34.5	1.606	2.557	10.2	20.7	
7 20	17 20.10	-13 22.9	1.533	2.413	15.2	19.2	7 20	17 21.07	-17 42.2	1.669	2.554	13.9	20.9	
380317	2002 <i>GA</i> ₈₁	6 17.5 69°03 2°1/17.5 17						162551	2000 <i>QS</i> ₂₂₆	6 17.6 215°71 11°3/16.1 17				
5 11	18 12.27	-17 58.1	1.711	2.547	15.6	20.7	5 11	18 13.90	+8 0.5	2.224	2.957	15.6	20.8	
5 21	18 7.67	-17 52.8	1.648	2.562	12.1	20.5	5 21	18 8.54	+9 14.4	2.140	2.947	14.0	20.7	
5 31	18 0.64	-17 51.6	1.605	2.577	8.2	20.3	5 31	18 1.11	+10 11.8	2.075	2.935	12.5	20.6	
6 10	17 51.92	-17 54.5	1.587	2.592	4.0	20.0	6 10	17 52.17	+10 47.3	2.033	2.923	11.5	20.5	
6 20	17 42.49	-18 1.2	1.595	2.607	2.4	20.0	6 20	17 42.43	+10 56.9	2.014	2.909	11.4	20.4	
6 30	17 33.49	-18 11.5	1.629	2.622	6.0	20.2	6 30	17 32.78	+10 39.1	2.019	2.895	12.3	20.5	
7 10	17 25.95	-18 25.3	1.688	2.638	9.9	20.5	7 10	17 24.11	+9 55.3	2.047	2.879	13.8	20.5	
7 20	17 20.57	-18 42.4	1.770	2.653	13.3	20.7	7 20	17 17.12	+8 49.4	2.094	2.862	15.6	20.6	
272812	2006 <i>AD</i> ₄₇	6 17.5 52°10 1°7/17.6 17						188819	2005 <i>XN</i> ₈₇	6 17.6 197°18 3°6/17.6 18				
5 11	18 13.63	-26 9.3	1.544	2.387	16.7	20.4	5 11	18 8.33	-9 31.1	2.993	3.790	10.6	20.8	

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
193387	2000 <i>VD</i> ₃₅		6 17.6 211 ^o .11	2 ^o .3/17.4	18		253389	2003 <i>KQ</i> ₂₅		6 17.6 260 ^o .67	0 ^o .3/17.6	18	
5 11	18 15.87	-28 7.6	2.390	3.202	12.5	21.0	5 11	18 9.40	-24 5.8	2.445	3.270	11.8	21.7
5 21	18 10.27	-28 52.1	2.294	3.194	9.8	20.8	5 21	18 5.02	-24 10.3	2.358	3.267	9.2	21.5
5 31	18 2.40	-29 35.6	2.222	3.187	6.7	20.6	5 31	17 58.75	-24 14.1	2.293	3.265	6.1	21.3
6 10	17 52.79	-30 14.9	2.177	3.178	3.6	20.3	6 10	17 51.14	-24 16.3	2.255	3.262	2.7	21.1
6 20	17 42.24	-30 47.1	2.160	3.170	2.5	20.3	6 20	17 42.88	-24 16.3	2.244	3.260	0.9	21.0
6 30	17 31.73	-31 10.7	2.172	3.160	5.2	20.4	6 30	17 34.81	-24 14.0	2.262	3.257	4.4	21.2
7 10	17 22.27	-31 25.6	2.211	3.150	8.5	20.6	7 10	17 27.70	-24 10.2	2.307	3.255	7.7	21.4
7 20	17 14.65	-31 33.7	2.276	3.139	11.5	20.8	7 20	17 22.18	-24 6.0	2.376	3.252	10.6	21.6
56774	2000 <i>OH</i> ₃₇		6 17.6 289 ^o .10	4 ^o .8/16.9	18		300973	2008 <i>EW</i> ₅₀		6 17.6 96 ^o .25	5 ^o .1/17.2	18	
5 11	18 8.40	-11 27.3	2.118	2.938	13.6	18.7	5 11	18 9.10	- 8 24.0	2.415	3.220	12.6	21.0
5 21	18 4.40	-10 46.0	2.029	2.929	10.9	18.5	5 21	18 4.48	- 7 45.4	2.349	3.235	10.2	20.9
5 31	17 58.41	-10 10.5	1.963	2.919	8.0	18.3	5 31	17 58.21	- 7 14.5	2.306	3.251	7.7	20.7
6 10	17 50.99	- 9 43.1	1.921	2.910	5.5	18.1	6 10	17 50.84	- 6 53.3	2.287	3.266	5.6	20.6
6 20	17 42.84	- 9 25.6	1.905	2.901	5.0	18.0	6 20	17 43.02	- 6 43.2	2.296	3.282	5.2	20.6
6 30	17 34.85	- 9 19.3	1.916	2.892	7.0	18.1	6 30	17 35.48	- 6 44.6	2.332	3.297	6.6	20.7
7 10	17 27.85	- 9 24.3	1.953	2.883	9.9	18.3	7 10	17 28.91	- 6 57.0	2.394	3.311	8.9	20.9
7 20	17 22.52	- 9 39.9	2.012	2.874	12.9	18.5	7 20	17 23.80	- 7 19.0	2.479	3.326	11.2	21.1
182949	2002 <i>GX</i> ₁₅₅		6 17.6 175 ^o .55	2 ^o .5/17.5	18		312839	2011 <i>UL</i> ₂₅		6 17.6 35 ^o .88	3 ^o .0/17.2	17	
5 11	18 11.66	-29 48.2	2.490	3.306	11.9	20.4	5 11	18 9.02	-16 20.3	2.045	2.875	13.6	20.5
5 21	18 6.85	-30 22.9	2.405	3.307	9.3	20.2	5 21	18 4.89	-15 48.9	1.970	2.879	10.7	20.3
5 31	18 0.00	-30 54.8	2.343	3.307	6.5	20.0	5 31	17 58.73	-15 20.7	1.916	2.883	7.4	20.1
6 10	17 51.69	-31 21.2	2.308	3.308	3.6	19.9	6 10	17 51.16	-14 57.1	1.887	2.888	4.2	20.0
6 20	17 42.64	-31 40.2	2.300	3.308	2.7	19.8	6 20	17 42.96	-14 39.2	1.885	2.893	3.2	19.9
6 30	17 33.76	-31 50.9	2.320	3.308	5.0	19.9	6 30	17 35.04	-14 28.0	1.910	2.898	5.9	20.1
7 10	17 25.90	-31 53.8	2.368	3.308	7.9	20.1	7 10	17 28.25	-14 24.1	1.960	2.903	9.2	20.3
7 20	17 19.75	-31 50.9	2.440	3.308	10.7	20.3	7 20	17 23.22	-14 27.3	2.034	2.908	12.2	20.5
507749	2013 <i>YF</i> ₁₇		6 17.6 220 ^o .75	2 ^o .0/17.5	18		390017	2012 <i>UB</i> ₁₁		6 17.6 183 ^o .76	2 ^o .0/17.5	17	
5 11	18 12.48	-17 21.5	2.330	3.146	12.6	22.1	5 11	18 11.27	-17 58.0	2.144	2.968	13.3	22.6
5 21	18 7.46	-17 17.9	2.233	3.137	9.9	21.9	5 21	18 6.62	-17 48.3	2.061	2.969	10.4	22.4
5 31	18 0.42	-17 17.5	2.160	3.127	6.7	21.7	5 31	17 59.90	-17 41.6	2.000	2.968	7.0	22.2
6 10	17 51.89	-17 20.6	2.113	3.116	3.4	21.4	6 10	17 51.70	-17 38.0	1.964	2.968	3.6	22.0
6 20	17 42.58	-17 26.8	2.093	3.105	2.2	21.3	6 20	17 42.80	-17 37.5	1.956	2.968	2.2	21.9
6 30	17 33.37	-17 36.2	2.102	3.093	5.1	21.5	6 30	17 34.10	-17 40.5	1.975	2.967	5.3	22.1
7 10	17 25.12	-17 48.8	2.139	3.081	8.5	21.7	7 10	17 26.49	-17 47.2	2.021	2.966	8.8	22.3
7 20	17 18.52	-18 4.5	2.200	3.068	11.7	21.9	7 20	17 20.65	-17 57.5	2.091	2.965	12.0	22.5
107367	2001 <i>CG</i> ₃₀		6 17.6 76 ^o .79	0 ^o .2/17.6	18		394325	2006 <i>WY</i> ₁₁₆		6 17.6 159 ^o .91	6 ^o .0/17.2	18	
5 11	18 14.66	-20 56.3	1.476	2.319	17.3	19.5	5 11	18 16.77	-39 45.9	2.510	3.299	12.6	21.6
5 21	18 10.19	-21 26.1	1.406	2.326	13.4	19.3	5 21	18 11.20	-40 55.2	2.430	3.302	10.4	21.5
5 31	18 2.71	-22 0.2	1.357	2.332	8.9	19.0	5 31	18 3.14	-41 57.0	2.373	3.305	8.2	21.3
6 10	17 53.00	-22 36.2	1.331	2.339	3.9	18.7	6 10	17 53.21	-42 46.4	2.342	3.308	6.4	21.2
6 20	17 42.22	-23 11.3	1.330	2.346	1.3	18.6	6 20	17 42.30	-43 19.5	2.337	3.310	6.0	21.2
6 30	17 31.80	-23 43.5	1.355	2.353	6.4	18.9	6 30	17 31.51	-43 34.8	2.360	3.312	7.3	21.3
7 10	17 23.07	-24 12.1	1.405	2.359	11.0	19.2	7 10	17 21.96	-43 33.5	2.408	3.314	9.4	21.4
7 20	17 16.97	-24 37.7	1.476	2.366	15.1	19.5	7 20	17 14.47	-43 18.9	2.480	3.316	11.6	21.6
406333	2007 <i>RN</i> ₃₄		6 17.6 259 ^o .27	2 ^o .2/17.4	17		198347	2004 <i>VZ</i> ₄		6 17.6 163 ^o .03	2 ^o .1/17.8	18	
5 11	18 15.10	-19 12.5	1.675	2.508	16.0	22.0	5 11	18 14.32	-28 55.4	2.006	2.830	14.1	20.4
5 21	18 10.48	-18 52.6	1.574	2.487	12.7	21.7	5 21	18 9.30	-29 8.0	1.925	2.832	11.0	20.2
5 31	18 2.97	-18 34.3	1.494	2.465	8.7	21.4	5 31	18 1.83	-29 16.6	1.866	2.834	7.5	20.0
6 10	17 53.20	-18 18.0	1.438	2.443	4.3	21.1	6 10	17 52.59	-29 18.7	1.833	2.836	3.8	19.7
6 20	17 42.13	-18 4.0	1.408	2.420	2.6	20.9	6 20	17 42.53	-29 12.9	1.826	2.838	2.3	19.6
6 30	17 31.04	-17 53.4	1.404	2.397	6.8	21.1	6 30	17 32.76	-28 59.3	1.847	2.839	5.5	19.8
7 10	17 21.28	-17 47.4	1.425	2.373	11.5	21.4	7 10	17 24.36	-28 39.8	1.893	2.841	9.1	20.1
7 20	17 13.88	-17 47.3	1.468	2.348	15.7	21.5	7 20	17 18.08	-28 17.2	1.964	2.842	12.4	20.3
152482	2005 <i>WG</i> ₅₉		6 17.6 224 ^o .77	2 ^o .2/17.7	18		357319	2003 <i>GR</i> ₈		6 17.6 23 ^o .81	9 ^o .2/18.2	17	
5 11	18 9.67	-14 15.1	2.990	3.795	10.4	20.6	5 11	18 8.10	-35 16.2	0.694	1.592	25.4	18.8
5 21	18 4.84	-14 25.0	2.889	3.784	8.2	20.5	5 21	18 7.59	-36 43.2	0.670	1.612	20.5	18.6
5 31	17 58.48	-14 39.9	2.813	3.774	5.7	20.3	5 31	18 2.00	-37 52.7	0.659	1.635	15.2	18.4
6 10	17 50.98	-14 59.7	2.763	3.762	3.2	20.1	6 10	17 52.87	-38 34.7	0.665	1.661	10.7	18.3
6 20	17 42.90	-15 24.0	2.742	3.750	2.3	20.0	6 20	17 42.51	-38 43.3	0.689	1.690	9.3	18.3
6 30	17 34.87	-15 52.2	2.751	3.738	4.4	20.1	6 30	17 33.54	-38 20.4	0.730	1.720	11.8	18.6
7 10	17 27.52	-16 23.6	2.789	3.726	7.0	20.3	7 10	17 27.95	-37 35.3	0.789	1.752	15.9	19.0
7 20	17 21.39	-16 57.5	2.852	3.713	9.5	20.5	7 20	17 26.54	-36 38.3	0.864	1.786	19.8	19.3
273945	2007 <i>JO</i> ₂₇		6 17.6 316 ^o .82	7 ^o .7/18.1	17		337059	1997 <i>LZ</i> ₁		6 17.6 62 ^o .16	8 ^o .0/17.2	17	
5 11	18 8.50	- 5 24.0	1.509	2.336	17.7	19.7	5 11	18 10.20	- 4 42.9	1.754	2.565	16.3	20.8
5 21	18 5.52	- 5 9.6	1.413	2.311	14.8	19.4	5 21	18 5.91	- 3 42.5	1.696	2.581	13.5	20.7
5 31	17 59.80	- 5 11.7	1.336	2.286	11.6	19.1	5 31	17 59.43	- 2 55.1	1.659	2.596	10.7	20.5
6 10	17 51.86	- 5 34.6	1.280	2.261	8.7	18.9	6 10	17 51.47	- 2 24.7	1.645	2.612	8.6	20.5
6 20	17 42.58	- 6 20.0	1.247	2.237	7.8	18.8	6 20	17 42.92	- 2 13.6	1.655	2.628	8.1	20.5
6 30	17 33.20	- 7 27.6	1.238	2.214	9.8	18.8	6 30	17 34.77	- 2 22.5	1.690	2.644	9.6	20.6
7 10	17 25.01	- 8 53.8	1.252	2.191	13.5	19.0	7 10	17 27.93	- 2 49.7	1.749	2.660	12.0	20.8
7 20	17 19.08	-10 33.1	1.287	2.170	17.3								

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
261286	2005 <i>UO</i> ₁₄₉	6 17.6 81°09	3°6/17.6 18				88333	2001 <i>OV</i> ₆₀	6 17.6 236°45	0°1/17.6 18			
5 11	18 12.39	-32 41.5	2.335	3.151	12.6	20.7	5 11	18 14.64	-23 0.7	1.995	2.821	14.1	20.4
5 21	18 7.66	-33 22.0	2.253	3.151	10.0	20.5	5 21	18 9.68	-23 12.7	1.899	2.808	11.0	20.1
5 31	18 0.70	-33 57.9	2.193	3.152	7.2	20.3	5 31	18 2.24	-23 25.5	1.824	2.796	7.4	19.9
6 10	17 52.10	-34 25.9	2.159	3.153	4.5	20.2	6 10	17 52.89	-23 37.5	1.775	2.782	3.3	19.6
6 20	17 42.70	-34 43.6	2.152	3.154	3.7	20.1	6 20	17 42.51	-23 47.4	1.753	2.768	1.1	19.4
6 30	17 33.49	-34 49.9	2.173	3.155	5.7	20.2	6 30	17 32.21	-23 54.4	1.759	2.754	5.4	19.7
7 10	17 25.43	-34 46.0	2.219	3.156	8.6	20.4	7 10	17 23.09	-23 59.1	1.791	2.739	9.5	19.9
7 20	17 19.26	-34 34.4	2.290	3.157	11.3	20.6	7 20	17 16.01	-24 2.8	1.847	2.724	13.1	20.1
179232	2001 <i>UY</i> ₃₉	6 17.6 169°95	2°3/17.7 18				392677	2011 <i>US</i> ₃₄₄	6 17.6 246°66	2°8/17.7 18			
5 11	18 12.94	-31 20.7	3.199	3.999	9.9	22.3	5 11	18 12.86	-30 32.2	2.215	3.034	13.1	21.6
5 21	18 7.37	-31 44.0	3.112	4.003	7.8	22.1	5 21	18 8.14	-30 57.6	2.124	3.028	10.3	21.4
5 31	18 0.15	-32 3.4	3.049	4.007	5.4	22.0	5 31	18 1.10	-31 19.0	2.056	3.021	7.2	21.2
6 10	17 51.78	-32 17.2	3.014	4.011	3.2	21.8	6 10	17 52.34	-31 33.8	2.014	3.014	4.1	21.0
6 20	17 42.86	-32 23.9	3.008	4.014	2.4	21.8	6 20	17 42.71	-31 39.7	1.998	3.007	2.9	20.9
6 30	17 34.11	-32 23.3	3.031	4.016	4.1	21.9	6 30	17 33.23	-31 36.3	2.010	3.000	5.5	21.0
7 10	17 26.20	-32 16.3	3.083	4.018	6.5	22.1	7 10	17 24.93	-31 24.7	2.049	2.992	8.8	21.2
7 20	17 19.68	-32 4.4	3.161	4.019	8.8	22.2	7 20	17 18.58	-31 7.6	2.111	2.985	11.9	21.4
258996	2002 <i>TS</i> ₆₅	6 17.6 217°37	3°6/17.7 18				513672	2011 <i>WR</i> ₁₁	6 17.6 210°08	2°0/17.5 18			
5 11	18 17.12	-31 23.7	1.916	2.735	14.8	21.1	5 11	18 12.11	-27 50.0	2.489	3.306	11.9	21.7
5 21	18 11.87	-31 57.7	1.827	2.729	11.8	20.9	5 21	18 7.25	-28 24.9	2.400	3.303	9.3	21.5
5 31	18 3.80	-32 27.3	1.759	2.722	8.3	20.7	5 31	18 0.36	-28 58.3	2.334	3.300	6.3	21.3
6 10	17 53.59	-32 48.3	1.717	2.715	4.9	20.5	6 10	17 51.99	-29 27.9	2.294	3.297	3.3	21.1
6 20	17 42.26	-32 57.7	1.701	2.707	3.7	20.4	6 20	17 42.84	-29 51.5	2.282	3.293	2.1	21.0
6 30	17 31.10	-32 54.2	1.712	2.699	6.5	20.5	6 30	17 33.80	-30 8.1	2.299	3.290	4.8	21.2
7 10	17 21.38	-32 39.8	1.748	2.690	10.1	20.7	7 10	17 25.76	-30 18.0	2.343	3.286	7.9	21.4
7 20	17 14.06	-32 17.9	1.808	2.681	13.6	20.9	7 20	17 19.38	-30 22.6	2.412	3.281	10.7	21.6
187785	1998 <i>SM</i> ₁₅₉	6 17.6 270°48	4°2/17.6 18				476273	2007 <i>VZ</i> ₁₇₇	6 17.6 226°94	0°3/17.6 16			
5 11	18 15.79	-31 31.1	1.686	2.516	16.0	20.5	5 11	18 11.91	-23 49.1	2.167	2.993	13.1	22.0
5 21	18 11.37	-32 14.4	1.593	2.502	12.9	20.3	5 21	18 7.28	-23 59.5	2.078	2.988	10.2	21.8
5 31	18 3.80	-32 54.0	1.522	2.487	9.2	20.0	5 31	18 0.47	-24 9.7	2.012	2.984	6.8	21.6
6 10	17 53.71	-33 24.9	1.473	2.471	5.6	19.8	6 10	17 52.05	-24 18.5	1.972	2.979	3.0	21.4
6 20	17 42.20	-33 42.9	1.450	2.456	4.4	19.6	6 20	17 42.83	-24 24.7	1.958	2.974	1.0	21.2
6 30	17 30.73	-33 45.9	1.453	2.440	7.4	19.8	6 30	17 33.77	-24 28.1	1.973	2.969	4.9	21.5
7 10	17 20.82	-33 35.4	1.480	2.425	11.4	20.0	7 10	17 25.83	-24 29.2	2.014	2.963	8.6	21.7
7 20	17 13.58	-33 15.3	1.529	2.409	15.2	20.2	7 20	17 19.72	-24 29.3	2.080	2.958	11.8	21.9
481105	2005 <i>TK</i> ₇₈	6 17.6 231°76	4°0/17.5 18				89850	2002 <i>CD</i> ₇₇	6 17.6 28°15	5°3/17.9 18			
5 11	18 13.60	-34 56.5	2.684	3.485	11.5	21.9	5 11	18 8.56	-7 31.8	2.129	2.939	13.8	19.4
5 21	18 8.46	-35 39.6	2.588	3.476	9.3	21.7	5 21	18 4.48	-7 21.1	2.052	2.943	11.3	19.2
5 31	18 1.20	-36 17.7	2.516	3.467	6.8	21.5	5 31	17 58.48	-7 21.0	1.997	2.946	8.5	19.0
6 10	17 52.36	-36 47.4	2.470	3.457	4.7	21.4	6 10	17 51.13	-7 33.0	1.967	2.949	6.1	18.9
6 20	17 42.66	-37 6.2	2.452	3.447	4.1	21.3	6 20	17 43.13	-7 57.6	1.962	2.953	5.4	18.9
6 30	17 33.04	-37 12.9	2.461	3.436	5.7	21.4	6 30	17 35.34	-8 34.1	1.984	2.957	7.0	19.0
7 10	17 24.41	-37 8.4	2.498	3.425	8.2	21.5	7 10	17 28.55	-9 20.8	2.031	2.961	9.6	19.1
7 20	17 17.50	-36 55.1	2.559	3.414	10.7	21.7	7 20	17 23.39	-10 15.2	2.102	2.965	12.3	19.3
522802	2016 <i>NU</i> ₇₉	6 17.6 3°20	0°9/17.5 17				188553	2004 <i>TZ</i> ₁₆	6 17.6 288°08	0°3/17.6 18			
5 11	18 10.09	-23 24.2	1.461	2.313	16.9	21.0	5 11	18 10.16	-24 30.0	2.360	3.185	12.2	19.6
5 21	18 6.67	-22 53.3	1.388	2.313	13.2	20.8	5 21	18 5.71	-24 2.2	2.265	3.174	9.5	19.4
5 31	18 0.39	-22 19.9	1.335	2.313	8.8	20.5	5 31	17 59.29	-23 31.3	2.193	3.164	6.3	19.2
6 10	17 52.06	-21 44.3	1.305	2.313	3.9	20.3	6 10	17 51.49	-22 57.5	2.146	3.154	2.8	18.9
6 20	17 42.79	-21 7.9	1.299	2.315	1.6	20.1	6 20	17 43.02	-22 21.2	2.128	3.143	1.0	18.8
6 30	17 33.93	-20 32.8	1.319	2.317	6.4	20.4	6 30	17 34.74	-21 44.1	2.138	3.133	4.6	19.0
7 10	17 26.71	-20 1.8	1.362	2.320	11.1	20.7	7 10	17 27.48	-21 8.0	2.175	3.123	8.1	19.2
7 20	17 21.98	-19 37.1	1.427	2.323	15.1	20.9	7 20	17 21.88	-20 35.0	2.237	3.113	11.2	19.4
512559	2016 <i>SW</i> ₂₀	6 17.6 193°25	2°8/17.5 18				386165	2007 <i>TO</i> ₄₄₄	6 17.6 304°81	1°0/17.5 17			
5 11	18 12.51	-30 53.2	2.598	3.410	11.6	21.6	5 11	18 10.83	-22 21.5	1.853	2.689	14.6	20.9
5 21	18 7.52	-31 31.7	2.510	3.408	9.2	21.5	5 21	18 6.75	-21 58.8	1.765	2.681	11.4	20.7
5 31	18 0.51	-32 7.0	2.446	3.407	6.4	21.3	5 31	18 0.26	-21 34.9	1.699	2.672	7.6	20.4
6 10	17 52.03	-32 36.4	2.408	3.405	3.8	21.1	6 10	17 52.00	-21 9.9	1.657	2.664	3.5	20.2
6 20	17 42.79	-32 57.6	2.398	3.404	2.9	21.1	6 20	17 42.86	-20 44.4	1.641	2.656	1.5	20.0
6 30	17 33.69	-33 9.7	2.417	3.402	5.0	21.2	6 30	17 33.94	-20 19.8	1.652	2.648	5.6	20.3
7 10	17 25.57	-33 13.2	2.462	3.399	7.8	21.4	7 10	17 26.29	-19 57.7	1.689	2.640	9.7	20.5
7 20	17 19.13	-33 10.1	2.532	3.397	10.5	21.5	7 20	17 20.70	-19 40.0	1.748	2.632	13.4	20.7
446602	2015 <i>MD</i> ₉	6 17.6 175°72	2°1/18.1 18				354770	2005 <i>US</i> ₉₂	6 17.6 333°98	3°0/17.7 18			
5 11	18 12.83	-31 56.6	2.656	3.464	11.5	20.7	5 11	18 10.42	-30 26.1	1.946	2.778	14.2	20.6
5 21	18 7.53	-31 46.2	2.568	3.465	9.0	20.6	5 21	18 6.57	-30 50.0	1.859	2.770	11.2	20.4
5 31	18 0.35	-31 29.4	2.504	3.466	6.2	20.4	5 31	18 0.22	-31 9.8	1.794	2.762	7.8	20.1
6 10	17 51.88	-31 5.0	2.467	3.467	3.4	20.2	6 10	17 52.01	-31 22.3	1.753	2.755	4.4	19.9
6 20	17 42.87	-30 32.6	2.457	3.467	2.2	20.1	6 20	17 42.85	-31 25.6	1.738	2.748	3.1	19.8
6 30	17 34.14	-29 53.4	2.477	3.468	4.5	20.3	6 30	17 33.89	-31 19.1	1.750	2.741	5.9	20.0
7 10	17 26.49	-29 9.5	2.525	3.468	7.4	20.4	7 10	17 26.22	-31 4.3	1.787	2.735	9.5	20.2
7 20	17 20.50	-28 23.9	2.597	3.467	10.0	20.6	7 20	17 20.67	-30 44.1	1.846	2.730	12.8	20.4
281579	2008 <i>UN</i> ₁₃₀	6 17.6 337°94	0°3/17.6 17				230399	2002 <i>JD</i>					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
192644	1999 <i>RS</i> ₃₉		6 17.6 274°82		3°7/17.1 18		494456	2016 <i>UU</i> ₁₄₆		6 17.6 272°49		1°4/17.8 18	
5 11	18 11.42	-15 29.4	1.957	2.784	14.3	20.0	5 11	18 11.81	-28 25.7	2.275	3.097	12.7	21.4
5 21	18 7.15	-14 51.0	1.856	2.762	11.4	19.8	5 21	18 7.20	-28 18.6	2.177	3.084	10.0	21.2
5 31	18 0.54	-14 15.2	1.775	2.741	8.1	19.5	5 31	18 0.43	-28 6.9	2.102	3.071	6.8	21.0
6 10	17 52.16	-13 43.9	1.720	2.719	4.8	19.3	6 10	17 52.07	-27 49.4	2.053	3.058	3.3	20.7
6 20	17 42.80	-13 18.8	1.691	2.697	3.9	19.2	6 20	17 42.93	-27 25.5	2.031	3.045	1.6	20.6
6 30	17 33.48	-13 1.7	1.689	2.674	6.8	19.3	6 30	17 33.96	-26 56.0	2.037	3.032	4.9	20.8
7 10	17 25.23	-12 53.7	1.712	2.651	10.5	19.5	7 10	17 26.09	-26 23.0	2.070	3.019	8.4	21.0
7 20	17 18.86	-12 55.1	1.758	2.628	14.0	19.6	7 20	17 20.03	-25 48.9	2.127	3.005	11.6	21.1
293780	2007 <i>RQ</i> ₁₂₃		6 17.6 18°40		1°0/17.6 17		288127	2003 <i>WH</i> ₇₇		6 17.6 251°25		0°2/17.6 18	
5 11	18 11.43	-20 30.4	1.913	2.745	14.3	21.1	5 11	18 12.65	-24 17.7	2.199	3.023	13.0	21.4
5 21	18 7.08	-20 32.3	1.832	2.746	11.2	20.9	5 21	18 7.92	-24 16.7	2.100	3.008	10.2	21.2
5 31	18 0.41	-20 36.3	1.773	2.746	7.4	20.7	5 31	18 0.96	-24 14.4	2.023	2.994	6.8	20.9
6 10	17 52.04	-20 41.8	1.739	2.746	3.4	20.4	6 10	17 52.34	-24 9.8	1.972	2.979	3.0	20.7
6 20	17 42.87	-20 48.1	1.731	2.746	1.4	20.3	6 20	17 42.84	-24 2.3	1.948	2.963	1.0	20.5
6 30	17 33.92	-20 55.0	1.751	2.746	5.4	20.6	6 30	17 33.44	-23 52.0	1.952	2.947	4.9	20.7
7 10	17 26.21	-21 2.9	1.796	2.747	9.3	20.8	7 10	17 25.11	-23 40.1	1.983	2.931	8.7	20.9
7 20	17 20.49	-21 12.3	1.864	2.747	12.8	21.0	7 20	17 18.61	-23 28.3	2.038	2.915	12.1	21.1
314170	2005 <i>GW</i> ₆₂		6 17.6 132°12		0°1/17.6 17		250971	2006 <i>HV</i> ₃₉		6 17.6 350°33		3°2/17.1 17	
5 11	18 16.66	-23 26.9	1.697	2.529	15.9	22.1	5 11	18 0.63	-21 50.9	0.869	1.768	21.4	18.9
5 21	18 11.33	-23 26.8	1.626	2.539	12.4	21.9	5 21	18 0.91	-20 52.4	0.804	1.755	16.9	18.5
5 31	18 3.29	-23 26.1	1.576	2.548	8.2	21.7	5 31	17 57.44	-19 49.1	0.755	1.743	11.5	18.2
6 10	17 53.31	-23 23.6	1.550	2.558	3.6	21.4	6 10	17 51.08	-18 44.7	0.725	1.734	5.7	17.9
6 20	17 42.49	-23 18.3	1.551	2.566	1.1	21.3	6 20	17 43.24	-17 44.0	0.713	1.727	3.7	17.7
6 30	17 32.09	-23 10.6	1.579	2.575	5.8	21.6	6 30	17 35.80	-16 52.8	0.721	1.722	9.1	18.0
7 10	17 23.28	-23 2.0	1.632	2.582	10.1	21.9	7 10	17 30.52	-16 15.6	0.747	1.720	15.0	18.3
7 20	17 16.87	-22 54.3	1.708	2.590	13.8	22.1	7 20	17 28.55	-15 54.3	0.790	1.720	20.2	18.6
253924	2004 <i>CL</i> ₆₁		6 17.6 51°21		0°2/17.6 17		21504	Caseyfreeman		6 17.6 219°41		4°9/17.1 18	
5 11	18 13.81	-21 58.5	1.426	2.274	17.5	20.0	5 11	18 11.08	-11 45.8	1.990	2.810	14.3	18.0
5 21	18 9.65	-22 24.3	1.361	2.282	13.6	19.7	5 21	18 6.63	-11 4.9	1.907	2.806	11.5	17.8
5 31	18 2.45	-22 53.0	1.315	2.291	9.1	19.5	5 31	18 0.04	-10 30.1	1.845	2.802	8.4	17.6
6 10	17 53.03	-23 22.3	1.292	2.301	4.0	19.2	6 10	17 51.90	-10 3.6	1.808	2.798	5.7	17.5
6 20	17 42.58	-23 49.6	1.295	2.310	1.3	19.1	6 20	17 43.01	-9 47.4	1.797	2.794	5.0	17.4
6 30	17 32.55	-24 13.4	1.322	2.320	6.4	19.4	6 30	17 34.32	-9 42.6	1.813	2.789	7.2	17.5
7 10	17 24.26	-24 33.5	1.374	2.330	11.1	19.7	7 10	17 26.75	-9 49.2	1.854	2.785	10.2	17.7
7 20	17 18.65	-24 51.1	1.446	2.340	15.1	20.0	7 20	17 20.99	-10 6.4	1.917	2.780	13.4	17.9
316371	2010 <i>SL</i> ₃₂		6 17.6 181°46		1°8/17.5 18		202991	1999 <i>VR</i> ₁₁₀		6 17.6 169°33		1°3/17.5 18	
5 11	18 8.96	-17 11.2	2.712	3.527	11.1	21.6	5 11	18 12.34	-20 30.6	2.143	2.968	13.3	21.2
5 21	18 4.45	-17 6.8	2.625	3.528	8.6	21.4	5 21	18 7.49	-20 13.7	2.061	2.970	10.3	21.0
5 31	17 58.31	-17 5.2	2.562	3.528	5.9	21.2	5 31	18 0.53	-19 57.5	2.001	2.972	6.9	20.8
6 10	17 51.04	-17 6.7	2.525	3.528	3.0	21.1	6 10	17 52.09	-19 41.9	1.967	2.973	3.3	20.6
6 20	17 43.22	-17 11.2	2.517	3.528	2.0	21.0	6 20	17 42.97	-19 27.4	1.961	2.975	1.7	20.4
6 30	17 35.55	-17 18.7	2.537	3.527	4.4	21.1	6 30	17 34.10	-19 14.7	1.982	2.976	5.1	20.7
7 10	17 28.71	-17 29.2	2.584	3.526	7.3	21.3	7 10	17 26.38	-19 4.7	2.030	2.976	8.7	20.9
7 20	17 23.23	-17 42.6	2.657	3.525	9.9	21.5	7 20	17 20.46	-18 58.4	2.102	2.977	11.9	21.1
206959	2004 <i>SQ</i> ₁₀		6 17.6 315°88		4°8/17.8 18		480508	2015 <i>MT</i>		6 17.6 296°73		3°0/17.2 16	
5 11	18 8.03	-13 38.7	1.112	1.978	20.1	20.2	5 11	18 9.98	-17 39.5	1.911	2.745	14.3	20.9
5 21	18 6.30	-13 32.5	1.021	1.951	16.3	19.9	5 21	18 6.05	-16 59.6	1.817	2.729	11.3	20.7
5 31	18 1.03	-13 38.7	0.948	1.924	11.7	19.5	5 31	17 59.81	-16 20.9	1.744	2.714	7.8	20.4
6 10	17 52.77	-14 0.2	0.894	1.898	6.9	19.2	6 10	17 51.86	-15 44.9	1.696	2.698	4.3	20.2
6 20	17 42.57	-14 37.8	0.862	1.872	5.0	19.0	6 20	17 43.03	-15 13.3	1.674	2.683	3.3	20.1
6 30	17 32.10	-15 30.5	0.851	1.847	9.3	19.1	6 30	17 34.33	-14 48.1	1.679	2.668	6.4	20.2
7 10	17 23.22	-16 35.3	0.860	1.823	14.9	19.3	7 10	17 26.76	-14 30.7	1.709	2.653	10.1	20.4
7 20	17 17.43	-17 48.3	0.888	1.801	20.3	19.5	7 20	17 21.12	-14 21.9	1.761	2.638	13.7	20.6
83780	2001 <i>TC</i> ₁₉₉		6 17.6 184°54		0°2/17.6 18		118406	1999 <i>RM</i> ₁₆₈		6 17.6 346°88		5°1/17.4 18	
5 11	18 11.74	-22 20.0	2.166	2.992	13.1	19.1	5 11	18 5.02	-12 49.3	1.543	2.392	16.4	18.6
5 21	18 7.15	-22 46.8	2.082	2.992	10.2	18.9	5 21	18 2.63	-12 16.5	1.462	2.380	13.1	18.4
5 31	18 0.39	-23 15.5	2.020	2.992	6.8	18.7	5 31	17 57.75	-11 51.1	1.401	2.369	9.5	18.1
6 10	17 52.05	-23 44.3	1.984	2.991	3.0	18.5	6 10	17 51.00	-11 36.1	1.362	2.359	6.2	17.9
6 20	17 42.92	-24 11.6	1.976	2.991	1.0	18.3	6 20	17 43.30	-11 33.1	1.347	2.350	5.2	17.8
6 30	17 33.94	-24 36.0	1.996	2.991	4.8	18.6	6 30	17 35.76	-11 43.2	1.357	2.343	7.9	18.0
7 10	17 26.05	-24 57.5	2.042	2.991	8.5	18.8	7 10	17 29.52	-12 5.7	1.389	2.337	11.7	18.2
7 20	17 19.98	-25 16.5	2.112	2.991	11.7	19.0	7 20	17 25.41	-12 38.7	1.442	2.332	15.3	18.4
508713	2017 <i>UB</i> ₂₄		6 17.6 223°30		0°9/17.6 17		307149	2002 <i>CU</i> ₂₅₄		6 17.6 165°77		3°7/17.3 17	
5 11	18 14.47	-21 0.7	1.914	2.741	14.5	22.5	5 11	18 16.24	-14 44.8	1.925	2.742	14.9	21.4
5 21	18 9.56	-21 0.3	1.823	2.733	11.4	22.3	5 21	18 10.61	-14 12.5	1.847	2.748	11.8	21.2
5 31	18 2.16	-21 1.4	1.754	2.725	7.6	22.0	5 31	18 2.66	-13 44.7	1.791	2.753	8.3	21.0
6 10	17 52.89	-21 3.2	1.709	2.716	3.5	21.8	6 10	17 53.05	-13 22.7	1.760	2.758	4.9	20.8
6 20	17 42.65	-21 5.1	1.692	2.707	1.4	21.6	6 20	17 42.69	-13 8.0	1.757	2.762	3.9	20.8
6 30	17 32.55	-21 7.0	1.702	2.697	5.6	21.9	6 30	17 32.64	-13 1.3	1.781	2.765	6.6	21.0
7 10	17 23.70	-21 9.5	1.738	2.687	9.7	22.1	7 10	17 23.90	-13 3.0	1.831	2.767	10.1	21.2
7 20	17 16.93	-21 13.6	1.798	2.676	13.4	22.3	7 20	17 17.18	-13 12.8	1.904	2.768	13.4	21.4
512805	2016 <i>UX</i> ₈₉		6 17.6 131°34		4°0/17.7 18		352424	2007 <i>YV</i> ₄₅					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
246061	2006 VX ₅₂	6 17.6 239°91		1.1/17.8 18			295594	2008 SL ₁₄₅	6 17.6 213°39		2.3/17.7 18		
5 11	18 11.73	-27 22.5	2.353	3.174	12.4	21.1	5 11	18 14.49	-28 54.5	2.129	2.949	13.5	20.8
5 21	18 7.02	-27 19.8	2.261	3.167	9.7	20.9	5 21	18 9.49	-29 18.7	2.040	2.945	10.6	20.6
5 31	18 0.25	-27 13.7	2.191	3.160	6.5	20.7	5 31	18 2.07	-29 39.8	1.973	2.940	7.3	20.3
6 10	17 51.99	-27 3.0	2.148	3.154	3.1	20.5	6 10	17 52.88	-29 55.3	1.932	2.935	3.9	20.1
6 20	17 43.02	-26 47.2	2.132	3.147	1.4	20.3	6 20	17 42.78	-30 2.9	1.918	2.929	2.5	20.0
6 30	17 34.24	-26 26.6	2.145	3.139	4.7	20.5	6 30	17 32.84	-30 2.0	1.932	2.924	5.4	20.2
7 10	17 26.53	-26 3.0	2.184	3.132	8.1	20.7	7 10	17 24.13	-29 53.9	1.972	2.917	9.0	20.4
7 20	17 20.56	-25 38.4	2.248	3.125	11.1	20.9	7 20	17 17.45	-29 41.0	2.036	2.911	12.2	20.6
200514	2001 BL ₅₃	6 17.6 286°71		5.4/17.7 18			50733	2000 EV ₁₅₂	6 17.6 175°40		1.0/17.7 18		
5 11	18 12.03	-9 3.8	1.913	2.727	15.0	20.0	5 11	18 18.47	-24 50.8	1.626	2.457	16.5	19.8
5 21	18 7.83	-8 54.7	1.803	2.697	12.3	19.8	5 21	18 13.12	-25 9.9	1.547	2.459	12.9	19.6
5 31	18 1.19	-8 56.2	1.713	2.667	9.2	19.5	5 31	18 4.75	-25 28.5	1.489	2.461	8.7	19.3
6 10	17 52.59	-9 10.6	1.648	2.636	6.4	19.3	6 10	17 54.13	-25 44.0	1.456	2.462	4.0	19.0
6 20	17 42.78	-9 39.0	1.608	2.605	5.4	19.2	6 20	17 42.39	-25 54.1	1.448	2.463	1.6	18.9
6 30	17 32.81	-10 21.0	1.595	2.574	7.7	19.2	6 30	17 30.96	-25 58.1	1.467	2.463	6.2	19.2
7 10	17 23.77	-11 15.2	1.607	2.542	11.3	19.4	7 10	17 21.18	-25 57.1	1.512	2.463	10.7	19.4
7 20	17 16.60	-12 18.8	1.642	2.510	14.9	19.5	7 20	17 14.01	-25 53.5	1.579	2.461	14.7	19.7
494202	2016 HT ₉	6 17.6 71°89		4.5/17.6 17			74659	1999 RU ₈₉	6 17.6 252°82		4.1/17.5 18		
5 11	18 12.95	-13 36.5	1.475	2.314	17.5	21.0	5 11	18 13.49	-13 49.5	1.734	2.561	15.8	19.5
5 21	18 8.68	-13 11.9	1.410	2.322	13.9	20.8	5 21	18 9.05	-13 29.8	1.640	2.547	12.7	19.3
5 31	18 1.66	-12 55.4	1.364	2.331	9.8	20.6	5 31	18 2.00	-13 16.5	1.567	2.532	9.0	19.0
6 10	17 52.68	-12 48.8	1.341	2.340	5.9	20.4	6 10	17 52.93	-13 11.4	1.518	2.516	5.4	18.8
6 20	17 42.82	-12 52.8	1.343	2.349	4.7	20.3	6 20	17 42.75	-13 15.2	1.495	2.501	4.3	18.6
6 30	17 33.38	-13 7.6	1.370	2.358	7.7	20.5	6 30	17 32.61	-13 28.5	1.497	2.484	7.3	18.8
7 10	17 25.53	-13 32.1	1.420	2.367	11.6	20.7	7 10	17 23.71	-13 50.7	1.525	2.468	11.3	19.0
7 20	17 20.10	-14 4.6	1.492	2.376	15.3	21.0	7 20	17 16.96	-14 20.9	1.575	2.451	15.1	19.2
259809	2004 BZ ₁₀₀	6 17.6 153°61		0.8/17.6 17			251908	1999 VU ₁₄₁	6 17.6 151°69		1.3/17.7 17		
5 11	18 15.60	-21 9.1	1.877	2.703	14.8	22.2	5 11	18 17.46	-26 25.6	1.977	2.798	14.4	21.8
5 21	18 10.31	-21 8.7	1.800	2.710	11.5	21.9	5 21	18 11.72	-26 41.4	1.901	2.807	11.2	21.6
5 31	18 2.56	-21 9.5	1.745	2.716	7.7	21.7	5 31	18 3.49	-26 55.0	1.846	2.815	7.5	21.4
6 10	17 53.05	-21 10.8	1.715	2.722	3.5	21.5	6 10	17 53.46	-27 4.1	1.817	2.823	3.6	21.2
6 20	17 42.72	-21 12.0	1.712	2.727	1.3	21.3	6 20	17 42.62	-27 7.2	1.816	2.830	1.7	21.1
6 30	17 32.70	-21 12.9	1.737	2.732	5.5	21.6	6 30	17 32.11	-27 3.9	1.842	2.836	5.4	21.3
7 10	17 24.06	-21 14.4	1.787	2.736	9.5	21.9	7 10	17 23.02	-26 55.8	1.895	2.842	9.2	21.6
7 20	17 17.56	-21 17.5	1.862	2.739	13.0	22.1	7 20	17 16.11	-26 45.1	1.972	2.847	12.5	21.8
505803	2015 BG ₃₆₇	6 17.6 248°90		4.6/17.7 17			315995	2009 DG ₉₇	6 17.6 281°25		0.5/17.7 18		
5 11	18 17.27	-32 33.5	1.689	2.516	16.2	21.7	5 11	18 14.18	-23 38.5	1.426	2.274	17.6	20.8
5 21	18 12.53	-33 16.1	1.600	2.505	13.0	21.5	5 21	18 10.29	-23 53.2	1.343	2.265	13.8	20.5
5 31	18 4.60	-33 53.7	1.532	2.495	9.4	21.2	5 31	18 3.18	-24 8.9	1.280	2.256	9.3	20.2
6 10	17 54.15	-34 21.1	1.488	2.484	5.8	21.0	6 10	17 53.55	-24 23.5	1.239	2.247	4.2	19.9
6 20	17 42.33	-34 34.1	1.469	2.473	4.7	20.9	6 20	17 42.57	-24 34.8	1.222	2.238	1.4	19.7
6 30	17 30.64	-34 31.0	1.475	2.461	7.5	21.0	6 30	17 31.75	-24 41.7	1.231	2.229	6.7	20.0
7 10	17 20.59	-34 13.8	1.507	2.450	11.3	21.2	7 10	17 22.61	-24 45.2	1.263	2.220	11.8	20.3
7 20	17 13.26	-33 47.0	1.560	2.438	15.1	21.4	7 20	17 16.24	-24 47.3	1.316	2.211	16.2	20.5
257909	2000 UQ ₉₇	6 17.6 177°52		2.5/17.1 18			61711	2000 QR ₁₃₉	6 17.6 249°92		7.0/17.3 18		
5 11	18 10.21	-16 36.9	2.896	3.705	10.6	20.5	5 11	18 10.82	-6 7.1	1.918	2.727	15.2	19.7
5 21	18 5.24	-15 56.4	2.809	3.707	8.3	20.4	5 21	18 6.57	-5 25.2	1.832	2.718	12.6	19.5
5 31	17 58.76	-15 17.3	2.746	3.708	5.8	20.2	5 31	18 0.11	-4 53.9	1.767	2.708	9.9	19.3
6 10	17 51.26	-14 40.6	2.710	3.708	3.3	20.0	6 10	17 52.02	-4 36.6	1.725	2.699	7.6	19.2
6 20	17 43.30	-14 7.7	2.703	3.709	2.6	20.0	6 20	17 43.07	-4 35.4	1.708	2.690	7.1	19.1
6 30	17 35.53	-13 39.7	2.726	3.709	4.7	20.1	6 30	17 34.26	-4 51.5	1.717	2.680	8.8	19.2
7 10	17 28.58	-13 17.7	2.776	3.708	7.3	20.3	7 10	17 26.54	-5 23.5	1.751	2.670	11.5	19.4
7 20	17 22.92	-13 2.1	2.852	3.707	9.7	20.5	7 20	17 20.65	-6 9.1	1.806	2.660	14.5	19.5
475364	2006 DD ₃₇	6 17.6 6°84		14.9/17.8 16			380881	2006 DA ₁₉	6 17.6 29°42		5.6/18.1 17		
5 11	18 1.47	+ 2 55.3	1.118	1.955	22.0	20.1	5 11	18 14.95	-35 50.6	1.622	2.451	16.7	20.6
5 21	18 0.37	+ 4 36.1	1.070	1.956	19.5	19.9	5 21	18 10.66	-36 29.8	1.553	2.456	13.5	20.4
5 31	17 56.41	+ 5 50.9	1.039	1.960	17.1	19.7	5 31	18 3.22	-36 59.6	1.503	2.461	9.9	20.2
6 10	17 50.43	+ 6 30.8	1.024	1.966	15.4	19.7	6 10	17 53.46	-37 15.2	1.476	2.466	6.8	20.0
6 20	17 43.54	+ 6 30.3	1.027	1.974	14.9	19.7	6 20	17 42.64	-37 12.9	1.474	2.472	5.7	20.0
6 30	17 37.07	+ 5 49.0	1.049	1.984	15.9	19.8	6 30	17 32.27	-36 52.6	1.497	2.479	7.9	20.1
7 10	17 32.24	+ 4 32.3	1.089	1.996	17.9	19.9	7 10	17 23.74	-36 17.7	1.543	2.485	11.2	20.3
7 20	17 29.85	+ 2 49.1	1.145	2.010	20.3	20.1	7 20	17 17.99	-35 33.7	1.611	2.492	14.5	20.5
403227	2008 UH ₂₂₉	6 17.6 306°86		0.6/17.6 17			207450	2006 FZ ₂₃	6 17.6 349°48		2.4/17.6 17		
5 11	18 10.63	-21 26.9	1.143	2.010	19.7	20.7	5 11	18 4.53	-19 32.7	0.971	1.857	20.8	20.1
5 21	18 8.53	-21 35.3	1.048	1.981	15.7	20.3	5 21	18 3.69	-19 19.0	0.903	1.846	16.4	19.8
5 31	18 2.68	-21 47.9	0.972	1.953	10.7	20.0	5 31	17 59.21	-19 9.4	0.853	1.837	11.2	19.5
6 10	17 53.61	-22 3.6	0.915	1.924	4.9	19.5	6 10	17 51.90	-19 5.1	0.821	1.830	5.4	19.1
6 20	17 42.44	-22 20.5	0.881	1.896	1.7	19.2	6 20	17 43.09	-19 6.5	0.810	1.824	2.9	18.9
6 30	17 30.96	-22 37.2	0.868	1.869	8.2	19.5	6 30	17 34.58	-19 13.9	0.819	1.820	8.3	19.2
7 10	17 21.17	-22 53.6	0.877	1.842	14.4	19.8	7 10	17 28.11	-19 27.5	0.848	1.818	14.0	19.5
7 20	17 14.64	-23 10.7	0.903	1.816	20.1	20.0	7 20	17 24.88	-19 46.9	0.894	1.818	19.1	19.8
345931	2007 RH ₂₄₆	6 17.6 285°11		4.1/17.8 16			476663	2008 TG ₁₀	6 17.6 327°55		6.2/17.7 16		
5 11	18 13.97	-33 4.8	1.902	2.726	14.7	21.5							

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
495511	2014 <i>UD</i> ₂₀₆	6 17.6 335°66		14°7/11.1		17 C	90877	1996 <i>VQ</i> ₅	6 17.7 227°44		1°1/17.5		18
5 11	17 44.16	-34 22.8	0.661	1.586	22.9	20.4	5 11	18 13.98	-21 42.5	2.259	3.078	12.9	20.5
5 21	17 49.28	-36 50.7	0.571	1.532	19.6	19.9	5 21	18 8.81	-21 19.8	2.161	3.066	10.1	20.3
5 31	17 50.89	-39 36.7	0.496	1.480	16.4	19.4	5 31	18 1.51	-20 56.2	2.085	3.055	6.8	20.0
6 10	17 48.90	-42 33.4	0.434	1.429	14.7	19.0	6 10	17 52.65	-20 31.6	2.036	3.042	3.1	19.8
6 20	17 43.82	-45 26.0	0.387	1.382	16.1	18.7	6 20	17 42.99	-20 6.4	2.015	3.029	1.5	19.6
6 30	17 37.64	-47 54.3	0.352	1.339	20.4	18.6	6 30	17 33.48	-19 41.9	2.022	3.016	5.0	19.8
7 10	17 33.84	-49 41.8	0.328	1.301	26.1	18.5	7 10	17 25.02	-19 19.6	2.057	3.001	8.7	20.0
7 20	17 36.18	-50 38.5	0.312	1.269	31.6	18.5	7 20	17 18.34	-19 1.0	2.116	2.987	12.0	20.2
278388	2007 <i>OV</i> ₁	6 17.6 317°54		4°7/18.2		18	522869	2016 <i>NW</i> ₈₈	6 17.7 241°36		4°0/17.5		18
5 11	18 9.55	-10 40.8	1.516	2.354	17.2	19.9	5 11	18 10.93	-11 56.5	2.265	3.077	13.1	22.0
5 21	18 6.57	-10 54.1	1.414	2.325	14.0	19.6	5 21	18 6.41	-11 38.3	2.169	3.065	10.5	21.8
5 31	18 0.73	-11 22.1	1.332	2.297	10.2	19.3	5 31	17 59.90	-11 26.5	2.096	3.053	7.6	21.6
6 10	17 52.54	-12 6.6	1.272	2.270	6.4	19.0	6 10	17 51.94	-11 22.4	2.048	3.041	4.9	21.4
6 20	17 42.88	-13 7.2	1.236	2.243	4.8	18.8	6 20	17 43.21	-11 26.8	2.027	3.028	4.1	21.3
6 30	17 32.98	-14 21.8	1.225	2.216	7.9	18.9	6 30	17 34.55	-11 39.9	2.034	3.014	6.2	21.4
7 10	17 24.25	-15 46.5	1.238	2.191	12.4	19.1	7 10	17 26.82	-12 1.4	2.067	3.001	9.3	21.6
7 20	17 17.84	-17 16.9	1.273	2.166	16.8	19.3	7 20	17 20.69	-12 30.1	2.124	2.987	12.2	21.7
106414	2000 <i>VM</i> ₃₂	6 17.7 192°28		1°6/17.6		18	234296	2000 <i>YR</i> ₆₀	6 17.7 166°18		0°8/17.8		18
5 11	18 12.06	-27 3.5	2.723	3.536	11.1	19.5	5 11	18 14.83	-26 24.5	2.533	3.344	11.9	21.7
5 21	18 7.06	-27 35.8	2.633	3.535	8.7	19.3	5 21	18 9.16	-26 24.1	2.449	3.350	9.2	21.5
5 31	18 0.21	-28 7.0	2.567	3.533	5.9	19.2	5 31	18 1.55	-26 20.9	2.388	3.355	6.2	21.3
6 10	17 52.01	-28 35.1	2.527	3.531	2.9	19.0	6 10	17 52.59	-26 14.0	2.354	3.360	2.8	21.1
6 20	17 43.12	-28 58.1	2.517	3.529	1.8	18.9	6 20	17 43.03	-26 2.6	2.349	3.364	1.1	21.0
6 30	17 34.34	-29 15.4	2.535	3.526	4.3	19.0	6 30	17 33.72	-25 47.2	2.373	3.367	4.3	21.2
7 10	17 26.45	-29 26.9	2.581	3.523	7.3	19.2	7 10	17 25.47	-25 29.1	2.425	3.369	7.6	21.4
7 20	17 20.07	-29 33.9	2.652	3.520	9.9	19.4	7 20	17 18.91	-25 10.2	2.502	3.371	10.4	21.6
75688	2000 <i>AG</i> ₁₀₁	6 17.7 166°40		1°0/17.7		18	56251	1999 <i>JR</i> ₇₇	6 17.7 302°06		2°6/17.8		18
5 11	18 16.10	-19 28.8	1.962	2.783	14.5	20.2	5 11	18 11.38	-15 36.1	1.637	2.475	16.1	17.7
5 21	18 10.67	-19 44.8	1.881	2.788	11.3	20.0	5 21	18 7.67	-15 50.8	1.545	2.460	12.8	17.5
5 31	18 2.82	-20 4.3	1.823	2.792	7.5	19.8	5 31	18 1.25	-16 14.0	1.474	2.445	8.8	17.2
6 10	17 53.22	-20 26.2	1.790	2.796	3.5	19.5	6 10	17 52.71	-16 45.8	1.426	2.430	4.6	16.9
6 20	17 42.75	-20 48.9	1.784	2.799	1.4	19.4	6 20	17 42.95	-17 24.9	1.403	2.415	2.8	16.7
6 30	17 32.51	-21 11.5	1.807	2.801	5.4	19.7	6 30	17 33.19	-18 9.6	1.406	2.401	6.6	16.9
7 10	17 23.55	-21 33.7	1.856	2.803	9.3	19.9	7 10	17 24.69	-18 57.9	1.434	2.387	11.0	17.2
7 20	17 16.64	-21 55.6	1.929	2.804	12.8	20.1	7 20	17 18.44	-19 48.3	1.484	2.373	15.1	17.4
414075	2007 <i>TU</i> ₆₉	6 17.7 221°95		1°2/17.7		17	394731	2008 <i>EV</i> ₁₅₁	6 17.7 359°75		7°4/16.9		15
5 11	18 17.54	-26 3.7	1.858	2.682	15.0	22.6	5 11	18 6.75	-5 53.5	1.875	2.693	15.2	21.3
5 21	18 12.21	-26 16.1	1.764	2.672	11.8	22.4	5 21	18 3.40	-4 57.5	1.802	2.691	12.6	21.1
5 31	18 4.11	-26 26.7	1.692	2.662	8.0	22.1	5 31	17 57.98	-4 12.1	1.749	2.690	9.9	20.9
6 10	17 53.89	-26 33.3	1.645	2.651	3.7	21.8	6 10	17 51.09	-3 41.2	1.719	2.690	7.9	20.8
6 20	17 42.52	-26 33.8	1.625	2.639	1.6	21.7	6 20	17 43.50	-3 27.4	1.713	2.690	7.5	20.8
6 30	17 31.29	-26 27.9	1.632	2.627	5.8	21.9	6 30	17 36.15	-3 31.9	1.732	2.691	9.0	20.8
7 10	17 21.44	-26 17.0	1.665	2.613	10.1	22.1	7 10	17 29.89	-3 53.7	1.775	2.692	11.5	21.0
7 20	17 13.91	-26 3.7	1.722	2.600	13.9	22.3	7 20	17 25.39	-4 30.3	1.839	2.694	14.2	21.2
508503	2016 <i>QF</i> ₁₉	6 17.7 8°62		2°5/17.3		17	358922	2008 <i>HT</i> ₁₀	6 17.7 88°20		3°2/17.7		17
5 11	18 10.69	-19 35.4	1.717	2.557	15.4	20.9	5 11	18 12.95	-31 42.7	2.384	3.198	12.4	21.3
5 21	18 6.69	-18 52.1	1.641	2.558	12.0	20.6	5 21	18 8.01	-32 20.5	2.310	3.209	9.8	21.1
5 31	18 0.25	-18 9.0	1.586	2.559	8.2	20.4	5 31	18 0.95	-32 54.0	2.259	3.220	6.9	20.9
6 10	17 52.07	-17 27.6	1.555	2.560	4.2	20.2	6 10	17 52.38	-33 20.2	2.234	3.230	4.2	20.8
6 20	17 43.12	-16 49.9	1.550	2.561	2.8	20.1	6 20	17 43.12	-33 36.9	2.236	3.241	3.3	20.7
6 30	17 34.50	-16 17.9	1.571	2.563	6.3	20.3	6 30	17 34.10	-33 43.4	2.266	3.251	5.3	20.9
7 10	17 27.26	-15 53.5	1.617	2.566	10.3	20.5	7 10	17 26.24	-33 40.9	2.323	3.261	8.1	21.1
7 20	17 22.15	-15 37.7	1.685	2.568	13.9	20.8	7 20	17 20.20	-33 31.6	2.404	3.272	10.8	21.3
427773	2004 <i>VU</i> ₉₈	6 17.7 299°79		1°6/17.7		16	20735	1999 <i>XU</i> ₁₆₉	6 17.7 295°81		1°2/17.6		18 R
5 11	18 12.27	-26 15.7	1.675	2.516	15.7	21.6	5 11	18 11.00	-24 37.3	2.294	3.118	12.5	17.9
5 21	18 8.46	-26 35.0	1.584	2.501	12.4	21.3	5 21	18 6.70	-25 16.7	2.196	3.105	9.8	17.7
5 31	18 1.80	-26 53.1	1.513	2.486	8.4	21.1	5 31	18 0.26	-25 57.5	2.121	3.091	6.6	17.5
6 10	17 52.92	-27 7.6	1.465	2.472	4.0	20.8	6 10	17 52.16	-26 37.4	2.072	3.078	3.1	17.2
6 20	17 42.82	-27 16.1	1.443	2.458	2.0	20.6	6 20	17 43.16	-27 14.2	2.050	3.064	1.5	17.1
6 30	17 32.80	-27 17.9	1.447	2.444	6.2	20.8	6 30	17 34.15	-27 46.0	2.057	3.051	4.9	17.3
7 10	17 24.19	-27 13.9	1.476	2.430	10.6	21.0	7 10	17 26.10	-28 12.3	2.091	3.038	8.4	17.5
7 20	17 17.99	-27 6.4	1.526	2.416	14.7	21.3	7 20	17 19.77	-28 33.8	2.148	3.025	11.6	17.7
188861	2006 <i>TM</i> ₃₁	6 17.7 189°54		3°4/17.7		18	123687	2000 <i>YA</i> ₉₈	6 17.7 203°33		10°4/19.9		18
5 11	18 13.69	-32 38.6	2.435	3.246	12.3	20.5	5 11	18 20.75	+ 1 22.3	1.269	2.067	22.1	20.3
5 21	18 8.65	-33 14.9	2.349	3.245	9.8	20.3	5 21	18 15.49	+ 1 14.2	1.192	2.065	18.8	20.0
5 31	18 1.43	-33 46.5	2.286	3.244	7.0	20.2	5 31	18 6.75	+ 0 37.2	1.132	2.062	15.2	19.8
6 10	17 52.61	-34 10.5	2.249	3.243	4.4	20.0	6 10	17 55.24	+ 0 33.9	1.091	2.058	11.9	19.6
6 20	17 42.99	-34 24.4	2.239	3.242	3.5	19.9	6 20	17 42.19	- 2 19.4	1.074	2.054	10.4	19.5
6 30	17 33.53	-34 27.5	2.258	3.240	5.5	20.1	6 30	17 29.25	- 4 34.4	1.081	2.049	12.0	19.6
7 10	17 25.19	-34 20.8	2.302	3.239	8.3	20.2	7 10	17 18.07	- 7 8.9	1.112	2.044	15.5	19.7
7 20	17 18.68	-34 6.9	2.372	3.237	11.0	20.4	7 20	17 9.87	- 9 51.8	1.165	2.038	19.4	20.0
250014	2002 <i>AZ</i> ₇₅	6 17.7 178°61		2°0/17.9		17	191670	2004 <i>QV</i> ₁₁	6 17.7 354°29		2°1/17.9		

EPHEMERIDES

6 17.7

6 17.7

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
350902	2002 <i>RG</i> ₈₆		6 17.7 264°27	4°3/17.2	18		111807	2002 <i>CC</i> ₂₇₃		6 17.7 133°64	3°4/17.7	18	
5 11	18 11.04	-11 30.6	2.375	3.184	12.6	21.8	5 11	18 19.24	-29 32.8	1.623	2.452	16.7	19.8
5 21	18 6.49	-11 0.8	2.266	3.159	10.2	21.6	5 21	18 13.85	-30 16.0	1.552	2.461	13.1	19.6
5 31	17 59.99	-10 36.2	2.180	3.135	7.5	21.4	5 31	18 5.33	-30 55.8	1.502	2.469	9.1	19.4
6 10	17 52.02	-10 18.6	2.120	3.110	5.1	21.2	6 10	17 54.49	-31 27.6	1.476	2.478	5.1	19.1
6 20	17 43.21	-10 9.5	2.087	3.084	4.4	21.1	6 20	17 42.55	-31 47.4	1.476	2.485	3.6	19.1
6 30	17 34.39	-10 9.9	2.081	3.057	6.4	21.2	6 30	17 31.00	-31 54.0	1.502	2.493	6.8	19.3
7 10	17 26.39	-10 19.8	2.102	3.031	9.4	21.3	7 10	17 21.23	-31 49.3	1.554	2.500	10.8	19.5
7 20	17 19.91	-10 38.8	2.147	3.003	12.4	21.5	7 20	17 14.21	-31 37.0	1.627	2.506	14.5	19.8
478751	2012 <i>UZ</i> ₉₅		6 17.7 36°83	1°4/17.6	17		313352	2002 <i>GX</i> ₁₂₇		6 17.7 89°82	4°6/17.3	17	
5 11	18 11.32	-20 43.5	1.848	2.684	14.7	21.4	5 11	18 13.77	-15 6.8	1.456	2.296	17.6	20.8
5 21	18 7.08	-20 27.0	1.772	2.686	11.4	21.2	5 21	18 9.43	-14 20.3	1.387	2.301	14.0	20.6
5 31	18 0.49	-20 11.4	1.716	2.689	7.6	21.0	5 31	18 2.27	-13 38.8	1.339	2.307	9.9	20.4
6 10	17 52.23	-19 56.8	1.685	2.692	3.6	20.7	6 10	17 53.09	-13 5.1	1.313	2.312	6.0	20.2
6 20	17 43.20	-19 43.4	1.681	2.695	1.7	20.6	6 20	17 43.00	-12 41.2	1.312	2.318	4.8	20.1
6 30	17 34.47	-19 32.1	1.703	2.698	5.6	20.9	6 30	17 33.33	-12 29.1	1.336	2.323	8.0	20.3
7 10	17 27.03	-19 23.9	1.750	2.701	9.5	21.1	7 10	17 25.29	-12 29.1	1.384	2.328	12.0	20.6
7 20	17 21.63	-19 19.7	1.821	2.705	13.0	21.3	7 20	17 19.72	-12 40.3	1.452	2.334	15.8	20.8
279573	2011 <i>DZ</i> ₁₂		6 17.7 29°76	4°1/18.3	17		382969	2004 <i>XH</i> ₁₃₃		6 17.7 141°77	1°2/17.8	18	
5 11	18 15.28	-33 44.9	1.537	2.372	17.1	20.0	5 11	18 14.53	-27 8.3	2.125	2.947	13.5	21.3
5 21	18 10.91	-33 51.3	1.466	2.376	13.7	19.8	5 21	18 9.33	-27 10.4	2.047	2.954	10.5	21.1
5 31	18 3.38	-33 47.7	1.415	2.381	9.7	19.6	5 31	18 1.87	-27 9.3	1.991	2.960	7.0	20.9
6 10	17 53.58	-33 30.7	1.387	2.386	5.8	19.4	6 10	17 52.83	-27 3.4	1.961	2.967	3.3	20.7
6 20	17 42.79	-32 58.6	1.383	2.391	4.2	19.3	6 20	17 43.08	-26 51.9	1.959	2.973	1.5	20.5
6 30	17 32.55	-32 13.0	1.405	2.396	7.0	19.5	6 30	17 33.65	-26 35.3	1.984	2.979	5.0	20.8
7 10	17 24.21	-31 18.3	1.451	2.402	11.0	19.7	7 10	17 25.50	-26 15.3	2.036	2.984	8.5	21.0
7 20	17 18.66	-30 20.4	1.518	2.409	14.7	19.9	7 20	17 19.31	-25 54.3	2.112	2.989	11.7	21.2
470720	2008 <i>UH</i> ₃₄		6 17.7 292°34	0°1/17.7	18		265366	2004 <i>RK</i> ₁₅₈		6 17.7 323°03	4°0/17.2	18	
5 11	18 12.04	-22 39.3	1.757	2.595	15.2	21.2	5 11	18 8.17	-13 29.5	2.156	2.980	13.2	20.4
5 21	18 8.17	-22 49.9	1.658	2.574	11.9	21.0	5 21	18 4.32	-12 51.6	2.071	2.974	10.5	20.2
5 31	18 1.60	-23 2.1	1.579	2.553	8.0	20.7	5 31	17 58.53	-12 18.3	2.007	2.968	7.6	20.0
6 10	17 52.89	-23 14.3	1.524	2.532	3.6	20.4	6 10	17 51.36	-11 51.3	1.968	2.962	4.9	19.8
6 20	17 42.95	-23 25.1	1.495	2.510	1.1	20.1	6 20	17 43.52	-11 32.3	1.956	2.957	4.2	19.8
6 30	17 32.99	-23 33.8	1.492	2.489	5.9	20.4	6 30	17 35.84	-11 22.5	1.970	2.951	6.3	19.9
7 10	17 24.26	-23 40.8	1.514	2.468	10.4	20.6	7 10	17 29.16	-11 22.1	2.010	2.946	9.4	20.1
7 20	17 17.74	-23 47.2	1.559	2.447	14.5	20.8	7 20	17 24.10	-11 30.8	2.073	2.941	12.3	20.3
241327	2007 <i>VW</i> ₁₃₄		6 17.7 273°10	1°3/17.7	18		346259	2008 <i>ET</i> ₈₁		6 17.7 112°19	4°6/17.3	17	
5 11	18 12.46	-25 45.6	2.031	2.859	13.8	21.0	5 11	18 10.27	- 8 0.3	2.855	3.646	11.2	22.2
5 21	18 8.09	-26 7.7	1.937	2.847	10.8	20.8	5 21	18 5.20	- 7 24.5	2.791	3.669	9.0	22.1
5 31	18 1.30	-26 29.2	1.865	2.836	7.3	20.5	5 31	17 58.71	- 6 55.6	2.751	3.691	6.8	21.9
6 10	17 52.67	-26 47.9	1.818	2.824	3.5	20.3	6 10	17 51.31	- 6 35.1	2.737	3.712	5.1	21.9
6 20	17 43.06	-27 2.0	1.797	2.812	1.6	20.1	6 20	17 43.56	- 6 24.1	2.751	3.733	4.6	21.9
6 30	17 33.53	-27 10.5	1.804	2.799	5.3	20.4	6 30	17 36.07	- 6 23.1	2.793	3.754	5.9	22.0
7 10	17 25.15	-27 14.0	1.838	2.787	9.2	20.6	7 10	17 29.41	- 6 31.6	2.862	3.774	7.9	22.1
7 20	17 18.77	-27 14.0	1.894	2.775	12.7	20.8	7 20	17 24.04	- 6 48.5	2.956	3.793	9.9	22.3
329952	2005 <i>QD</i> ₆₂		6 17.7 339°77	0°7/17.7	17		470344	2007 <i>RV</i> ₁₆₂		6 17.7 178°29	4°3/18.1	18	
5 11	18 7.26	-24 7.4	1.171	2.043	19.0	20.9	5 11	18 16.36	-36 8.3	2.383	3.184	12.8	21.9
5 21	18 5.53	-24 17.5	1.094	2.029	15.0	20.6	5 21	18 10.80	-36 34.6	2.298	3.185	10.3	21.7
5 31	18 0.37	-24 27.8	1.034	2.015	10.1	20.2	5 31	18 2.90	-36 53.2	2.237	3.186	7.6	21.5
6 10	17 52.48	-24 36.7	0.994	2.003	4.6	19.9	6 10	17 53.31	-37 0.8	2.200	3.187	5.2	21.4
6 20	17 43.11	-24 42.1	0.977	1.992	1.5	19.6	6 20	17 42.93	-36 55.3	2.191	3.187	4.3	21.3
6 30	17 33.90	-24 43.6	0.982	1.983	7.3	20.0	6 30	17 32.82	-36 36.4	2.209	3.187	6.0	21.4
7 10	17 26.54	-24 42.3	1.008	1.975	12.8	20.3	7 10	17 23.98	-36 6.5	2.254	3.186	8.7	21.6
7 20	17 22.21	-24 40.3	1.054	1.968	17.7	20.5	7 20	17 17.16	-35 28.9	2.323	3.185	11.4	21.7
316043	2009 <i>HY</i> ₂		6 17.7 96°45	1°6/17.7	17		417757	2007 <i>DR</i> ₄₉		6 17.7 86°91	0°5/17.7	17	
5 11	18 17.93	-26 23.5	1.513	2.350	17.2	21.3	5 11	18 14.54	-21 36.3	1.695	2.530	15.8	21.6
5 21	18 12.72	-26 41.3	1.450	2.365	13.4	21.1	5 21	18 9.73	-21 44.4	1.629	2.543	12.2	21.4
5 31	18 4.46	-26 56.9	1.408	2.380	9.0	20.8	5 31	18 2.32	-21 54.2	1.583	2.556	8.1	21.2
6 10	17 54.04	-27 7.1	1.389	2.395	4.2	20.6	6 10	17 53.07	-22 4.4	1.562	2.569	3.6	21.0
6 20	17 42.70	-27 10.1	1.395	2.409	2.0	20.5	6 20	17 43.01	-22 13.7	1.566	2.582	1.2	20.8
6 30	17 31.90	-27 5.6	1.428	2.424	6.3	20.8	6 30	17 33.37	-22 22.0	1.598	2.594	5.7	21.1
7 10	17 22.96	-26 55.8	1.485	2.438	10.7	21.1	7 10	17 25.24	-22 29.5	1.655	2.607	9.8	21.4
7 20	17 16.74	-26 43.5	1.564	2.451	14.5	21.3	7 20	17 19.40	-22 37.3	1.734	2.619	13.4	21.7
478113	2011 <i>UT</i> ₈₂		6 17.7 260°76	0°9/17.5	18		204103	2003 <i>WD</i> ₁₀₈		6 17.7 300°88	0°6/17.7	18	
5 11	18 10.80	-22 21.9	2.300	3.125	12.5	21.0	5 11	18 11.55	-25 10.8	1.748	2.587	15.2	20.8
5 21	18 6.31	-21 57.6	2.208	3.117	9.7	20.8	5 21	18 7.80	-25 10.1	1.651	2.568	11.9	20.6
5 31	17 59.83	-21 32.0	2.138	3.109	6.5	20.6	5 31	18 1.33	-25 7.5	1.575	2.549	8.1	20.3
6 10	17 51.93	-21 5.2	2.094	3.100	3.0	20.4	6 10	17 52.77	-25 1.5	1.522	2.530	3.7	20.0
6 20	17 43.33	-20 37.8	2.077	3.092	1.3	20.2	6 20	17 43.06	-24 51.2	1.496	2.511	1.2	19.7
6 30	17 34.92	-20 11.1	2.089	3.084	4.8	20.5	6 30	17 33.41	-24 36.9	1.495	2.492	5.9	20.0
7 10	17 27.53	-19 46.5	2.128	3.075	8.3	20.7	7 10	17 25.07	-24 20.2	1.519	2.474	10.3	20.2
7 20	17 21.81	-19 25.6	2.191	3.067	11.4	20.8	7 20	17 18.99	-24 3.4	1.566	2.456	14.4	20.4
59510	1999 <i>JY</i> ₁₃		6 17.7 297°56	9°7/13.5	18		439189 </						

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
213552	2002 <i>JJ</i> ₁₃₁		6 17.7 62°44	1.9°/17.4	18		60514	2000 <i>EC</i> ₁₂		6 17.7 157°41	1.7°/17.7	18	
5 11	18 14.69	-21 31.9	1.623	2.461	16.2	19.1	5 11	18 13.57	-27 18.2	2.128	2.951	13.4	20.0
5 21	18 9.67	-20 46.1	1.566	2.482	12.6	18.9	5 21	18 8.71	-27 39.3	2.046	2.953	10.5	19.8
5 31	18 2.12	-19 59.5	1.530	2.503	8.4	18.7	5 31	18 1.56	-27 58.3	1.987	2.956	7.1	19.6
6 10	17 52.91	-19 13.4	1.518	2.525	4.0	18.5	6 10	17 52.76	-28 12.8	1.953	2.958	3.5	19.3
6 20	17 43.11	-18 29.8	1.533	2.546	2.3	18.4	6 20	17 43.15	-28 21.3	1.947	2.960	1.9	19.2
6 30	17 33.93	-17 51.0	1.574	2.568	6.1	18.7	6 30	17 33.76	-28 23.1	1.968	2.962	5.1	19.5
7 10	17 26.39	-17 19.3	1.640	2.589	10.1	19.0	7 10	17 25.60	-28 19.3	2.016	2.963	8.6	19.7
7 20	17 21.16	-16 55.9	1.728	2.611	13.6	19.3	7 20	17 19.39	-28 11.8	2.088	2.965	11.8	19.9
199627	2006 <i>FV</i> ₅₂		6 17.7 134°37	6°0/17.1	18		39405	Mosigkau		6 17.7 329°33	0°3/17.7	18	
5 11	18 11.59	- 8 2.4	2.122	2.928	14.0	21.0	5 11	18 6.48	-22 53.5	2.495	3.324	11.5	18.5
5 21	18 6.81	- 7 12.7	2.050	2.936	11.4	20.8	5 21	18 2.95	-22 48.5	2.397	3.308	8.9	18.3
5 31	18 0.08	- 6 31.2	2.001	2.945	8.7	20.6	5 31	17 57.62	-22 43.1	2.321	3.293	6.0	18.1
6 10	17 52.01	- 6 0 8	1.976	2.953	6.5	20.5	6 10	17 50.99	-22 37.0	2.271	3.279	2.7	17.8
6 20	17 43.36	- 5 43.6	1.977	2.960	6.1	20.5	6 20	17 43.69	-22 30.0	2.249	3.264	0.9	17.7
6 30	17 34.98	- 5 40.6	2.005	2.968	7.7	20.6	6 30	17 36.49	-22 22.5	2.254	3.250	4.3	17.9
7 10	17 27.69	- 5 51.1	2.058	2.975	10.2	20.8	7 10	17 30.14	-22 15.1	2.286	3.237	7.6	18.1
7 20	17 22.09	- 6 13.7	2.134	2.981	12.8	21.0	7 20	17 25.25	-22 8.8	2.342	3.224	10.6	18.3
438577	2007 <i>UT</i> ₅₆		6 17.7 297°98	0°3/17.7	16		120443	1981 <i>DK</i> ₂		6 17.7 57°99	3°3/18.1	18	
5 11	18 11.39	-23 49.3	1.916	2.750	14.3	21.7	5 11	18 18.48	-31 50.8	1.509	2.342	17.5	19.3
5 21	18 7.29	-23 55.8	1.828	2.742	11.1	21.5	5 21	18 12.99	-31 58.6	1.461	2.371	13.7	19.1
5 31	18 0.77	-24 2 2	1.761	2.734	7.4	21.3	5 31	18 4.47	-31 58.0	1.433	2.400	9.4	18.9
6 10	17 52.45	-24 7 1	1.718	2.726	3.3	21.0	6 10	17 53.98	-31 46.0	1.428	2.429	5.2	18.7
6 20	17 43.20	-24 9 4	1.702	2.718	1.0	20.8	6 20	17 42.86	-31 21.7	1.449	2.459	3.5	18.7
6 30	17 34.10	-24 9 0	1.713	2.710	5.3	21.1	6 30	17 32.57	-30 46.7	1.495	2.488	6.5	18.9
7 10	17 26.23	-24 6 8	1.750	2.702	9.4	21.3	7 10	17 24.34	-30 5 4	1.566	2.517	10.4	19.2
7 20	17 20.39	-24 4 1	1.809	2.695	13.0	21.5	7 20	17 18.87	-29 22.3	1.660	2.546	13.9	19.5
49122	1998 <i>SR</i> ₁₄		6 17.7 239°95	1°8/17.7	18		308943	2006 <i>SL</i> ₄₁₂		6 17.7 192°47	1°8/17.7	18	
5 11	18 15.92	-26 40.5	1.855	2.682	14.9	19.7	5 11	18 12.38	-28 21.0	2.586	3.400	11.6	21.8
5 21	18 11.07	-27 8 3	1.762	2.671	11.8	19.5	5 21	18 7.44	-28 42.4	2.497	3.399	9.1	21.7
5 31	18 3.46	-27 35.1	1.690	2.660	8.0	19.2	5 31	18 0.56	-29 1 2	2.432	3.397	6.2	21.5
6 10	17 53.72	-27 58.1	1.643	2.648	3.9	19.0	6 10	17 52.28	-29 15.6	2.393	3.395	3.2	21.3
6 20	17 42.80	-28 14.6	1.623	2.636	2.1	18.8	6 20	17 43.31	-29 24.1	2.382	3.393	1.9	21.2
6 30	17 31.95	-28 23.1	1.629	2.623	5.9	19.0	6 30	17 34.50	-29 26.2	2.399	3.391	4.5	21.3
7 10	17 22.43	-28 24.6	1.662	2.610	10.1	19.2	7 10	17 26.65	-29 22.7	2.444	3.388	7.5	21.5
7 20	17 15.21	-28 21.2	1.717	2.597	13.8	19.4	7 20	17 20.42	-29 15.3	2.514	3.385	10.3	21.7
475506	2006 <i>SV</i> ₃₂₇		6 17.7 261°51	0°6/17.7	18		92214	2000 <i>AX</i> ₆		6 17.7 218°40	1°8/17.8	18	
5 11	18 11.53	-24 40.1	2.235	3.059	12.8	22.2	5 11	18 11.29	-29 18.5	2.817	3.628	10.8	20.1
5 21	18 7.08	-24 52.2	2.140	3.050	10.0	22.0	5 21	18 6.47	-29 31.5	2.722	3.622	8.5	20.0
5 31	18 0.48	-25 3 7	2.069	3.040	6.7	21.8	5 31	17 59.86	-29 41.3	2.651	3.616	5.8	19.8
6 10	17 52.28	-25 13.2	2.023	3.030	3.0	21.5	6 10	17 51.96	-29 46.1	2.607	3.609	3.1	19.6
6 20	17 43.25	-25 19.6	2.004	3.019	1.1	21.4	6 20	17 43.43	-29 45.1	2.591	3.602	1.9	19.5
6 30	17 34.33	-25 22.4	2.014	3.009	4.8	21.6	6 30	17 35.03	-29 37.9	2.604	3.595	4.3	19.6
7 10	17 26.45	-25 22.3	2.050	2.999	8.4	21.8	7 10	17 27.51	-29 25.6	2.644	3.587	7.1	19.8
7 20	17 20.34	-25 20.6	2.110	2.988	11.7	22.0	7 20	17 21.47	-29 10.0	2.710	3.579	9.7	20.0
6531	Subashiri		6 17.7 143°48	0°1/17.7	18		128846	2004 <i>ST</i> ₁₀		6 17.7 265°38	0°9/17.7	18	
5 11	18 10.49	-23 34.4	2.787	3.602	10.8	18.8	5 11	18 11.07	-24 35.3	2.426	3.247	12.0	19.9
5 21	18 5.68	-23 40.2	2.705	3.610	8.3	18.6	5 21	18 6.60	-25 4 0	2.332	3.239	9.4	19.7
5 31	17 59.21	-23 45.6	2.648	3.617	5.5	18.5	5 31	18 0.12	-25 33.1	2.261	3.231	6.3	19.5
6 10	17 51.61	-23 49.7	2.617	3.623	2.5	18.3	6 10	17 52.15	-26 0 9	2.216	3.222	2.9	19.3
6 20	17 43.49	-23 52.0	2.614	3.630	0.7	18.1	6 20	17 43.39	-26 25.7	2.199	3.214	1.3	19.1
6 30	17 35.56	-23 52.5	2.641	3.636	3.9	18.4	6 30	17 34.70	-26 46.2	2.211	3.205	4.5	19.3
7 10	17 28.50	-23 51.6	2.696	3.642	6.8	18.6	7 10	17 26.94	-27 2 5	2.250	3.197	7.9	19.5
7 20	17 22.86	-23 50.3	2.776	3.647	9.4	18.8	7 20	17 20.81	-27 15.4	2.313	3.188	10.9	19.7
289389	2005 <i>CZ</i> ₃₃		6 17.7 241°39	1°5/17.7	17		474220	2000 <i>WM</i> ₁₁₃		6 17.7 174°02	0°4/17.6	18	
5 11	18 15.45	-26 0 7	1.509	2.350	17.1	21.4	5 11	18 11.22	-23 26.4	3.069	3.879	10.1	21.9
5 21	18 11.12	-26 18.5	1.430	2.348	13.4	21.1	5 21	18 6.06	-23 4 8	2.980	3.881	7.8	21.8
5 31	18 3.65	-26 35.1	1.372	2.345	9.0	20.8	5 31	17 59.39	-22 41.6	2.916	3.883	5.2	21.6
6 10	17 53.82	-26 47.4	1.336	2.343	4.3	20.6	6 10	17 51.70	-22 16.7	2.879	3.885	2.3	21.4
6 20	17 42.79	-26 53.1	1.326	2.341	1.9	20.4	6 20	17 43.57	-21 50.6	2.871	3.887	0.8	21.3
6 30	17 32.04	-26 51.7	1.341	2.338	6.5	20.7	6 30	17 35.63	-21 24.1	2.894	3.887	3.7	21.5
7 10	17 22.99	-26 44.7	1.381	2.336	11.2	20.9	7 10	17 28.51	-20 58.5	2.945	3.888	6.4	21.7
7 20	17 16.64	-26 34.9	1.442	2.333	15.3	21.2	7 20	17 22.69	-20 34.9	3.022	3.888	8.9	21.9
38852	2000 <i>SR</i> ₇₀		6 17.7 252°21	1°6/17.6	18		379702	2011 <i>FT</i> ₁₄₀		6 17.7 64°51	3°4/17.6	17	
5 11	18 12.63	-19 10.6	1.921	2.750	14.4	19.6	5 11	18 12.29	-15 44.8	1.655	2.490	16.1	20.6
5 21	18 8.19	-19 4 6	1.829	2.740	11.3	19.4	5 21	18 7.95	-15 21.6	1.590	2.502	12.6	20.4
5 31	18 1.36	-19 1 2	1.758	2.729	7.7	19.2	5 31	18 1.13	-15 3 8	1.545	2.514	8.7	20.2
6 10	17 52.72	-19 0 3	1.712	2.718	3.7	18.9	6 10	17 52.58	-14 52.6	1.524	2.526	4.9	20.0
6 20	17 43.13	-19 1 7	1.693	2.707	2.0	18.7	6 20	17 43.30	-14 48.6	1.529	2.538	3.6	20.0
6 30	17 33.65	-19 5 6	1.701	2.695	5.7	19.0	6 30	17 34.42	-14 52.3	1.560	2.550	6.6	20.2
7 10	17 25.34	-19 12 2	1.735	2.683	9.7	19.2	7 10	17 26.99	-15 3 5	1.615	2.562	10.4	20.4
7 20	17 19.02	-19 21.9	1.791	2.672	13.3	19.4	7 20	17 21.72	-15 21.4	1.693	2.575	13.9	20.7
180773	2004 <i>PB</i> ₁₀₅		6 17.7 1°73	0°3/17.7	18		210705	2000 <i>SY</i> ₁₅₅		6 17.7 244°			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
222425	2001 <i>OV</i>		6 17.7 297°06	1°3/17.8 18			470178	2006 <i>UC</i> ₂₈₂		6 17.7 247°06	2°4/17.6 18		
5 11	18 12.62	-18 49.0	1.551	2.393	16.6	20.0	5 11	18 13.00	-28 46.5	2.360	3.178	12.4	21.8
5 21	18 9.10	-19 6.7	1.448	2.366	13.2	19.7	5 21	18 8.27	-29 22.2	2.266	3.169	9.8	21.6
5 31	18 2.57	-19 31.1	1.364	2.339	9.0	19.4	5 31	18 1.34	-29 56.0	2.195	3.160	6.8	21.4
6 10	17 53.54	-20 1.4	1.304	2.311	4.3	19.1	6 10	17 52.76	-30 25.2	2.149	3.150	3.7	21.2
6 20	17 42.94	-20 35.9	1.269	2.284	1.8	18.8	6 20	17 43.29	-30 47.5	2.131	3.141	2.5	21.1
6 30	17 32.11	-21 12.7	1.259	2.256	6.7	19.1	6 30	17 33.89	-31 1.7	2.141	3.131	5.1	21.3
7 10	17 22.53	-21 50.4	1.273	2.229	11.8	19.3	7 10	17 25.51	-31 8.1	2.178	3.121	8.4	21.4
7 20	17 15.40	-22 28.4	1.309	2.202	16.4	19.5	7 20	17 18.92	-31 8.4	2.240	3.111	11.4	21.6
482197	2010 <i>VG</i> ₇₁		6 17.7 175°48	0°8/17.7 18			120555	1995 <i>CV</i> ₈		6 17.7 96°55	15°9/22.1 18		
5 11	18 9.22	-19 53.5	3.029	3.841	10.1	22.2	5 11	18 35.17	-55 0.8	1.164	1.943	24.6	20.1
5 21	18 4.61	-20 1.1	2.941	3.843	7.8	22.0	5 21	18 29.72	-56 0.2	1.101	1.944	22.1	19.9
5 31	17 58.50	-20 10.4	2.876	3.844	5.2	21.8	5 31	18 17.60	-56 30.0	1.052	1.944	19.4	19.7
6 10	17 51.35	-20 20.9	2.839	3.845	2.4	21.7	6 10	18 0.36	-56 14.8	1.020	1.944	17.1	19.6
6 20	17 43.69	-20 32.1	2.831	3.846	1.0	21.5	6 20	17 41.11	-55 3.9	1.006	1.945	16.0	19.5
6 30	17 36.15	-20 43.7	2.852	3.846	3.7	21.8	6 30	17 23.70	-52 58.2	1.011	1.945	16.5	19.6
7 10	17 29.36	-20 55.7	2.902	3.846	6.5	21.9	7 10	17 11.07	-50 11.9	1.037	1.945	18.5	19.7
7 20	17 23.79	-21 8.3	2.977	3.846	8.9	22.1	7 20	17 4.30	-47 5.0	1.081	1.946	21.2	19.9
168783	2000 <i>RB</i> ₁₀₄		6 17.7 279°08	2°2/17.9 18			423643	2005 <i>XH</i> ₃₉		6 17.7 100°99	0°6/17.6 17		
5 11	18 15.79	-29 7.7	1.472	2.314	17.4	20.1	5 11	18 14.77	-22 58.1	1.804	2.635	15.1	21.2
5 21	18 11.71	-29 6.8	1.382	2.299	13.8	19.8	5 21	18 9.76	-22 39.8	1.734	2.647	11.7	21.0
5 31	18 4.28	-28 59.7	1.311	2.283	9.5	19.5	5 31	18 2.29	-22 20.5	1.686	2.659	7.8	20.8
6 10	17 54.24	-28 43.4	1.263	2.268	4.8	19.2	6 10	17 53.12	-21 59.8	1.663	2.670	3.5	20.6
6 20	17 42.78	-28 16.2	1.239	2.253	2.5	19.0	6 20	17 43.23	-21 38.0	1.666	2.681	1.2	20.4
6 30	17 31.50	-27 38.9	1.240	2.237	6.9	19.2	6 30	17 33.78	-21 16.3	1.696	2.692	5.5	20.7
7 10	17 21.95	-26 55.2	1.266	2.222	11.9	19.5	7 10	17 25.78	-20 56.4	1.752	2.703	9.5	21.0
7 20	17 15.28	-26 10.2	1.312	2.206	16.3	19.7	7 20	17 19.96	-20 40.1	1.831	2.713	13.0	21.2
514516	2016 <i>WW</i> ₄₄		6 17.7 305°23	2°7/17.6 18			70003	1998 <i>XV</i> ₁₂		6 17.7 168°31	1°1/17.7 18		
5 11	18 11.60	-29 18.2	2.216	3.039	12.9	21.2	5 11	18 9.20	-18 57.8	2.824	3.638	10.7	19.7
5 21	18 7.34	-29 57.9	2.124	3.030	10.2	21.0	5 21	18 4.70	-19 1.1	2.737	3.640	8.3	19.6
5 31	18 0.79	-30 35.5	2.055	3.021	7.1	20.8	5 31	17 58.63	-19 6.5	2.675	3.642	5.6	19.4
6 10	17 52.52	-31 8.2	2.012	3.012	4.0	20.6	6 10	17 51.44	-19 13.9	2.639	3.644	2.7	19.2
6 20	17 43.32	-31 33.2	1.995	3.004	2.9	20.5	6 20	17 43.73	-19 22.7	2.632	3.645	1.3	19.1
6 30	17 34.20	-31 49.2	2.006	2.995	5.5	20.6	6 30	17 36.16	-19 32.9	2.653	3.646	4.0	19.3
7 10	17 26.17	-31 56.6	2.043	2.987	8.8	20.8	7 10	17 29.39	-19 44.4	2.703	3.647	6.9	19.5
7 20	17 20.01	-31 57.1	2.103	2.979	11.8	21.0	7 20	17 23.93	-19 57.3	2.777	3.648	9.4	19.7
193346	2000 <i>UD</i> ₁₈		6 17.7 151°01	1°9/17.6 18			129528	1996 <i>BQ</i> ₈		6 17.7 285°24	3°5/17.8 17		
5 11	18 13.72	-17 22.5	2.399	3.211	12.4	21.4	5 11	18 11.17	-13 23.2	1.902	2.727	14.7	19.8
5 21	18 8.34	-17 15.8	2.320	3.221	9.7	21.2	5 21	18 7.14	-13 23.4	1.807	2.712	11.7	19.6
5 31	18 1.08	-17 12.2	2.265	3.230	6.6	21.0	5 31	18 0.75	-13 31.7	1.732	2.696	8.3	19.3
6 10	17 52.52	-17 11.6	2.236	3.239	3.4	20.8	6 10	17 52.56	-13 48.7	1.682	2.681	4.9	19.1
6 20	17 43.36	-17 14.0	2.235	3.247	2.1	20.7	6 20	17 43.37	-14 14.5	1.658	2.665	3.6	19.0
6 30	17 34.45	-17 19.4	2.263	3.254	4.8	20.9	6 30	17 34.19	-14 48.2	1.661	2.650	6.4	19.1
7 10	17 26.57	-17 28.0	2.319	3.261	8.0	21.2	7 10	17 26.08	-15 28.6	1.689	2.634	10.2	19.3
7 20	17 20.31	-17 39.7	2.400	3.267	10.9	21.4	7 20	17 19.87	-16 14.0	1.740	2.619	13.7	19.5
118958	2000 <i>WR</i> ₁₂₁		6 17.7 194°82	1°2/17.8 18			36690	2000 <i>RD</i> ₇		6 17.7 263°20	1°4/17.6 18		
5 11	18 10.67	-17 39.5	3.058	3.865	10.1	20.8	5 11	18 12.70	-20 15.2	1.898	2.728	14.5	19.2
5 21	18 5.73	-17 53.3	2.964	3.862	7.9	20.7	5 21	18 8.36	-20 4.5	1.803	2.715	11.4	19.0
5 31	17 59.26	-18 10.2	2.894	3.859	5.3	20.5	5 31	18 1.56	-19 55.1	1.730	2.702	7.7	18.7
6 10	17 51.71	-18 29.6	2.851	3.855	2.6	20.3	6 10	17 52.91	-19 47.1	1.682	2.688	3.7	18.4
6 20	17 43.60	-18 51.1	2.838	3.851	1.4	20.2	6 20	17 43.28	-19 40.2	1.660	2.674	1.8	18.3
6 30	17 35.57	-19 13.9	2.854	3.846	3.9	20.4	6 30	17 33.74	-19 35.1	1.665	2.660	5.7	18.5
7 10	17 28.26	-19 37.7	2.900	3.841	6.6	20.5	7 10	17 25.39	-19 32.6	1.696	2.645	9.8	18.7
7 20	17 22.17	-20 2.3	2.971	3.836	9.1	20.7	7 20	17 19.06	-19 33.4	1.749	2.631	13.5	18.9
208570	2002 <i>CR</i> ₂₃		6 17.7 199°63	5°3/17.5 17			432773	2011 <i>FD</i> ₃₀		6 17.7 103°50	0°2/17.7 15		
5 11	18 14.94	-11 6.0	1.721	2.540	16.2	20.9	5 11	18 16.73	-23 23.7	1.990	2.811	14.3	22.8
5 21	18 10.08	-10 34.9	1.639	2.538	13.1	20.7	5 21	18 11.01	-23 34.1	1.927	2.834	11.0	22.7
5 31	18 2.67	-10 12.2	1.578	2.535	9.6	20.4	5 31	18 2.98	-23 44.3	1.886	2.856	7.3	22.5
6 10	17 53.36	-10 0.1	1.540	2.531	6.4	20.2	6 10	17 53.39	-23 52.7	1.871	2.878	3.2	22.3
6 20	17 43.10	-10 0.1	1.528	2.527	5.5	20.2	6 20	17 43.18	-23 58.3	1.883	2.899	1.0	22.1
6 30	17 33.03	-10 12.9	1.543	2.522	7.9	20.3	6 30	17 33.41	-24 0.8	1.924	2.919	5.0	22.5
7 10	17 24.29	-10 37.7	1.582	2.517	11.5	20.5	7 10	17 25.04	-24 1.3	1.991	2.939	8.7	22.7
7 20	17 17.71	-11 12.6	1.643	2.511	14.9	20.7	7 20	17 18.73	-24 1.1	2.082	2.958	11.9	23.0
343814	2011 <i>HK</i> ₉		6 17.7 17°06	6°5/17.5 17			471744	2012 <i>UW</i> ₅₃		6 17.7 342°61	4°0/17.8 17		
5 11	18 9.16	- 9 52.2	1.486	2.324	17.4	20.4	5 11	18 13.44	-31 58.3	1.763	2.594	15.4	20.7
5 21	18 5.82	- 9 9.0	1.420	2.328	14.1	20.2	5 21	18 9.33	-32 33.2	1.682	2.591	12.3	20.5
5 31	17 59.90	- 8 36.4	1.373	2.332	10.6	20.0	5 31	18 2.39	-33 2.8	1.623	2.588	8.7	20.3
6 10	17 52.12	- 8 17.7	1.348	2.337	7.5	19.8	6 10	17 53.32	-33 23.2	1.587	2.585	5.3	20.1
6 20	17 43.49	- 8 15.1	1.347	2.342	6.6	19.8	6 20	17 43.17	-33 31.2	1.577	2.583	4.1	20.0
6 30	17 35.20	- 8 29.2	1.370	2.348	8.8	19.9	6 30	17 33.27	-33 26.0	1.592	2.581	6.7	20.2
7 10	17 28.35	- 8 58.6	1.415	2.355	12.2	20.1	7 10	17 24.89	-33 9.6	1.632	2.579	10.4	20.4
7 20	17 23.74	- 9 40.3	1.482	2.362	15.6	20.4	7 20	17 18.94	-32 45.6	1.695	2.578	13.8	20.6
505515	2013 <i>XC</i> ₂₅		6 17.7 184°88	2°5/17.9 18			126103	2001 <i>YT</i>					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
310334	2011 <i>UL</i> ₁₈₃	6 17.7 273°45		3°1/17.5 18			308450	2005 <i>SN</i> ₂₄₂	6 17.7 128°11		1°9/17.9 17		
5 11	18 13.32	-29 56.8	2.271	3.089	12.8	20.7	5 11	18 12.18	-29 27.7	2.397	3.214	12.3	21.5
5 21	18 8.71	-30 45.2	2.175	3.077	10.2	20.5	5 21	18 7.41	-29 34.9	2.315	3.218	9.6	21.3
5 31	18 1.77	-31 31.9	2.102	3.065	7.2	20.3	5 31	18 0.62	-29 37.9	2.256	3.221	6.6	21.1
6 10	17 53.02	-32 13.5	2.054	3.053	4.2	20.1	6 10	17 52.40	-29 35.2	2.222	3.225	3.4	20.9
6 20	17 43.26	-32 46.7	2.034	3.041	3.2	20.0	6 20	17 43.54	-29 25.6	2.216	3.228	2.0	20.8
6 30	17 33.52	-33 9.8	2.042	3.028	5.7	20.1	6 30	17 34.92	-29 9.6	2.239	3.231	4.7	21.0
7 10	17 24.82	-33 22.9	2.076	3.016	8.9	20.3	7 10	17 27.41	-28 48.6	2.288	3.235	7.8	21.2
7 20	17 18.00	-33 27.7	2.134	3.004	11.9	20.5	7 20	17 21.64	-28 24.9	2.362	3.238	10.7	21.4
260629	2005 <i>GL</i> ₈₀	6 17.7 344°70		0°9/17.7 17			130216	2000 <i>AC</i> ₂₃₈	6 17.7 314°20		5°3/15.5 18		
5 11	18 10.37	-22 45.3	1.219	2.083	18.9	20.2	5 11	18 15.53	-23 1.2	1.246	2.100	19.2	18.2
5 21	18 7.86	-23 19.9	1.144	2.075	14.8	19.9	5 21	18 12.11	-20 45.4	1.136	2.061	15.4	17.8
5 31	18 1.93	-23 58.8	1.088	2.068	10.0	19.6	5 31	18 4.99	-18 7.3	1.047	2.023	10.9	17.4
6 10	17 53.29	-24 39.0	1.053	2.062	4.5	19.3	6 10	17 54.81	-15 10.5	0.981	1.984	6.4	17.0
6 20	17 43.18	-25 16.9	1.041	2.057	1.6	19.1	6 20	17 42.75	-12 4.2	0.941	1.947	6.1	16.9
6 30	17 33.25	-25 49.7	1.053	2.053	7.2	19.4	6 30	17 30.56	-9 2.8	0.926	1.909	11.1	17.0
7 10	17 25.15	-26 16.6	1.086	2.049	12.5	19.7	7 10	17 20.07	-6 21.1	0.934	1.873	17.0	17.2
7 20	17 20.05	-26 38.6	1.139	2.047	17.2	19.9	7 20	17 12.65	-4 9.5	0.962	1.837	22.4	17.4
185755	1999 <i>SV</i>	6 17.7 249°94		0°6/17.7 18			504082	2006 <i>BG</i> ₁₃₆	6 17.7 85°69		6°4/18.9 17		
5 11	18 10.35	-21 37.8	2.637	3.454	11.3	21.3	5 11	18 20.75	-40 51.5	1.845	2.645	16.0	20.9
5 21	18 5.84	-21 35.6	2.536	3.441	8.8	21.1	5 21	18 14.82	-41 13.4	1.781	2.661	13.2	20.7
5 31	17 59.53	-21 33.7	2.458	3.427	5.9	20.9	5 31	18 5.83	-41 21.6	1.737	2.677	10.1	20.6
6 10	17 51.92	-21 31.9	2.407	3.413	2.7	20.7	6 10	17 54.75	-41 11.4	1.716	2.692	7.5	20.5
6 20	17 43.62	-21 29.8	2.384	3.399	1.0	20.5	6 20	17 42.88	-40 40.5	1.721	2.708	6.5	20.4
6 30	17 35.40	-21 27.6	2.390	3.385	4.2	20.7	6 30	17 31.71	-39 50.1	1.752	2.723	7.9	20.6
7 10	17 28.01	-21 25.7	2.423	3.370	7.4	20.9	7 10	17 22.51	-38 45.4	1.807	2.738	10.6	20.7
7 20	17 22.06	-21 24.8	2.482	3.355	10.3	21.1	7 20	17 16.07	-37 32.9	1.886	2.753	13.4	21.0
146825	2001 <i>YC</i> ₁₄₄	6 17.7 240°41		0°8/17.7 18			264468	2001 <i>FY</i> ₈₅	6 17.7 296°88		0°6/17.8 17		
5 11	18 10.77	-21 0.9	2.426	3.247	12.0	20.6	5 11	18 13.11	-24 15.8	1.489	2.336	17.0	20.6
5 21	18 6.27	-20 55.4	2.332	3.239	9.4	20.4	5 21	18 9.71	-24 24.0	1.388	2.309	13.5	20.3
5 31	17 59.87	-20 50.5	2.261	3.231	6.3	20.2	5 31	18 3.11	-24 32.3	1.307	2.282	9.2	20.0
6 10	17 52.08	-20 46.2	2.215	3.222	2.9	20.0	6 10	17 53.88	-24 38.7	1.248	2.255	4.2	19.6
6 20	17 43.59	-20 42.1	2.198	3.213	1.2	19.8	6 20	17 43.04	-24 41.3	1.213	2.229	1.4	19.3
6 30	17 35.22	-20 38.5	2.209	3.203	4.5	20.0	6 30	17 32.05	-24 39.4	1.204	2.202	6.8	19.6
7 10	17 27.78	-20 36.1	2.247	3.194	7.9	20.2	7 10	17 22.50	-24 34.2	1.218	2.176	12.0	19.8
7 20	17 21.91	-20 35.5	2.309	3.184	10.9	20.4	7 20	17 15.61	-24 27.9	1.253	2.149	16.8	20.0
253718	2003 <i>WT</i> ₁	6 17.7 193°93		0°3/17.7 17			510611	2012 <i>TN</i> ₈₅	6 17.7 197°56		1°5/17.6 17		
5 11	18 16.90	-22 48.7	1.933	2.756	14.6	21.4	5 11	18 12.17	-19 38.6	2.166	2.990	13.2	22.2
5 21	18 11.57	-23 8.7	1.846	2.754	11.4	21.1	5 21	18 7.50	-19 25.1	2.080	2.988	10.3	22.0
5 31	18 3.67	-23 30.1	1.781	2.751	7.6	20.9	5 31	18 0.75	-19 13.1	2.017	2.986	6.9	21.8
6 10	17 53.86	-23 50.8	1.742	2.748	3.4	20.6	6 10	17 52.49	-19 2.6	1.979	2.984	3.4	21.6
6 20	17 43.05	-24 9.1	1.729	2.745	1.0	20.4	6 20	17 43.52	-18 53.8	1.969	2.982	1.8	21.5
6 30	17 32.40	-24 23.9	1.745	2.740	5.4	20.7	6 30	17 34.74	-18 47.3	1.986	2.979	5.1	21.7
7 10	17 23.05	-24 35.5	1.787	2.735	9.5	21.0	7 10	17 27.04	-18 43.6	2.030	2.977	8.6	21.9
7 20	17 15.84	-24 45.0	1.853	2.730	13.1	21.2	7 20	17 21.11	-18 43.6	2.098	2.974	11.8	22.1
364810	2008 <i>BG</i> ₁₈	6 17.7 73°81		12°3/18.3 18			502984	2015 <i>FC</i> ₇₃	6 17.7 137°97		5°0/17.4 17		
5 11	18 8.78	+14 34.6	2.339	3.041	15.6	20.3	5 11	18 13.08	-9 1.3	2.378	3.176	12.9	22.9
5 21	18 4.55	+15 40.8	2.285	3.051	14.4	20.2	5 21	18 7.76	-8 24.2	2.307	3.190	10.5	22.7
5 31	17 58.59	+16 26.1	2.248	3.061	13.2	20.2	5 31	18 0.68	-7 54.5	2.258	3.204	7.8	22.6
6 10	17 51.45	+16 46.0	2.230	3.071	12.5	20.1	6 10	17 52.38	-7 34.1	2.236	3.217	5.6	22.4
6 20	17 43.80	+16 38.1	2.234	3.081	12.3	20.1	6 20	17 43.59	-7 24.2	2.241	3.229	5.1	22.4
6 30	17 36.40	+16 2.2	2.259	3.091	12.7	20.2	6 30	17 35.06	-7 25.5	2.273	3.240	6.6	22.5
7 10	17 29.97	+15 1.0	2.304	3.101	13.6	20.3	7 10	17 27.55	-7 37.4	2.333	3.251	9.1	22.7
7 20	17 25.05	+13 39.0	2.369	3.111	14.7	20.4	7 20	17 21.59	-7 58.8	2.416	3.261	11.5	22.9
311416	2005 <i>UQ</i> ₇₆	6 17.7 237°44		1°1/17.9 18			312722	2010 <i>RY</i> ₅₅	6 17.7 320°96		1°0/17.6 18		
5 11	18 11.91	-27 55.6	2.594	3.409	11.5	21.0	5 11	18 9.29	-21 47.0	1.918	2.755	14.1	20.6
5 21	18 7.08	-27 46.7	2.498	3.401	9.0	20.9	5 21	18 5.69	-21 28.9	1.826	2.742	11.0	20.4
5 31	18 0.35	-27 33.9	2.424	3.392	6.1	20.6	5 31	17 59.78	-21 10.3	1.755	2.728	7.4	20.1
6 10	17 52.27	-27 16.3	2.378	3.383	2.9	20.4	6 10	17 52.15	-20 51.4	1.708	2.715	3.4	19.9
6 20	17 43.55	-26 53.4	2.359	3.373	1.3	20.3	6 20	17 43.63	-20 32.6	1.688	2.703	1.5	19.7
6 30	17 34.99	-26 26.1	2.369	3.364	4.3	20.5	6 30	17 35.25	-20 15.0	1.694	2.690	5.4	19.9
7 10	17 27.40	-25 56.0	2.407	3.354	7.5	20.7	7 10	17 28.02	-19 59.8	1.726	2.679	9.5	20.1
7 20	17 21.39	-25 25.2	2.470	3.344	10.4	20.8	7 20	17 22.73	-19 48.4	1.780	2.667	13.1	20.3
414134	2007 <i>VQ</i> ₈₄	6 17.7 148°26		4°0/17.1 18			98521	2000 <i>VP</i> ₂₉	6 17.7 202°66		1°1/17.6 18		
5 11	18 24.01	-29 48.5	2.034	2.839	14.6	21.3	5 11	18 15.84	-23 38.3	2.096	2.916	13.7	19.4
5 21	18 17.23	-31 15.6	1.957	2.850	11.6	21.1	5 21	18 10.67	-24 25.5	2.007	2.913	10.7	19.2
5 31	18 7.55	-32 41.8	1.904	2.861	8.2	21.0	5 31	18 3.08	-25 15.2	1.941	2.910	7.2	19.0
6 10	17 55.64	-34 0.8	1.877	2.871	5.0	20.8	6 10	17 53.64	-26 4.4	1.901	2.907	3.4	18.7
6 20	17 42.52	-35 7.0	1.879	2.881	4.2	20.7	6 20	17 43.21	-26 50.0	1.889	2.903	1.5	18.6
6 30	17 29.53	-35 56.9	1.910	2.889	6.7	20.9	6 30	17 32.84	-27 29.8	1.905	2.899	5.2	18.8
7 10	17 17.98	-36 30.5	1.969	2.897	10.0	21.1	7 10	17 23.60	-28 3.0	1.948	2.894	9.0	19.1
7 20	17 8.84	-36 50.5	2.051	2.904	13.0	21.3	7 20	17 16.35	-28 30.2	2.016	2.889	12.3	19.3
342536	2008 <i>UQ</i> ₂₁₈	6 17.7 283°60		1°9/17.8 17			290125	2005 <i>QO</i> ₁₄₈	6 17.7 310°38		2°1/17.9 18		</

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
395273	2010 <i>TB</i> ₁₃₀		6 17.7 262°40	7°2/16.9	18		74168	1998 <i>RK</i> ₂		6 17.7 237°02	0°9/17.7	18	
5 11	18 8.35	-0 59.9	2.591	3.368	12.5	21.1	5 11	18 12.31	-20 5.2	2.071	2.897	13.6	19.9
5 21	18 4.23	-0 15.1	2.496	3.352	10.7	21.0	5 21	18 7.82	-20 12.5	1.982	2.892	10.6	19.7
5 31	17 58.46	+0 19.3	2.423	3.336	8.9	20.8	5 31	18 1.11	-20 22.3	1.915	2.886	7.1	19.4
6 10	17 51.48	+0 40.2	2.373	3.319	7.5	20.7	6 10	17 52.74	-20 34.0	1.874	2.880	3.3	19.2
6 20	17 43.86	+0 45.4	2.350	3.302	7.3	20.7	6 20	17 43.53	-20 46.8	1.860	2.874	1.3	19.0
6 30	17 36.30	+0 33.8	2.352	3.285	8.3	20.7	6 30	17 34.44	-21 0.1	1.873	2.868	5.1	19.3
7 10	17 29.47	+0 6.3	2.379	3.268	10.2	20.8	7 10	17 26.46	-21 13.9	1.913	2.862	8.9	19.5
7 20	17 23.96	-0 35.1	2.429	3.250	12.2	20.9	7 20	17 20.33	-21 28.6	1.976	2.856	12.3	19.7
114690	2003 <i>FK</i> ₈₇		6 17.7 357°10	3°4/17.6	17		35773	1999 <i>JT</i> ₇		6 17.7 27°67	0°8/17.7	18	
5 11	18 9.74	-18 16.0	1.101	1.971	20.1	18.9	5 11	18 10.70	-22 58.3	0.970	1.848	21.4	18.1
5 21	18 7.36	-17 46.6	1.035	1.967	15.9	18.6	5 21	18 8.26	-22 40.8	0.923	1.862	16.6	17.9
5 31	18 1.54	-17 21.2	0.986	1.965	10.9	18.3	5 31	18 2.07	-22 23.1	0.894	1.876	11.0	17.6
6 10	17 53.10	-17 1.7	0.957	1.964	5.7	18.0	6 10	17 53.26	-22 4.9	0.883	1.893	4.9	17.3
6 20	17 43.38	-16 49.5	0.951	1.963	3.7	17.9	6 20	17 43.42	-21 46.8	0.895	1.910	1.7	17.2
6 30	17 34.04	-16 45.9	0.966	1.964	8.2	18.2	6 30	17 34.38	-21 30.2	0.928	1.929	7.6	17.6
7 10	17 26.66	-16 51.6	1.003	1.965	13.4	18.5	7 10	17 27.70	-21 17.2	0.981	1.949	13.0	18.0
7 20	17 22.29	-17 6.0	1.058	1.967	18.1	18.7	7 20	17 24.25	-21 9.6	1.054	1.969	17.6	18.3
40014	1998 <i>HL</i> ₁₂₄		6 17.7 164°85	0°8/17.7	18		75035	1999 <i>UY</i> ₂₅		6 17.7 151°33	2°2/17.5	17	
5 11	18 14.56	-20 3.2	2.508	3.319	12.0	19.4	5 11	18 15.46	-19 35.3	1.718	2.549	15.8	19.4
5 21	18 9.04	-20 11.7	2.424	3.325	9.3	19.3	5 21	18 10.49	-19 5.5	1.642	2.554	12.3	19.2
5 31	18 1.63	-20 22.0	2.364	3.331	6.2	19.1	5 31	18 2.94	-18 36.7	1.588	2.558	8.3	18.9
6 10	17 52.87	-20 33.4	2.330	3.336	2.9	18.9	6 10	17 53.55	-18 9.7	1.558	2.563	4.2	18.7
6 20	17 43.49	-20 45.1	2.326	3.340	1.2	18.7	6 20	17 43.32	-17 45.5	1.554	2.566	2.5	18.6
6 30	17 34.28	-20 56.9	2.350	3.344	4.4	19.0	6 30	17 33.44	-17 25.4	1.577	2.570	6.2	18.8
7 10	17 26.07	-21 8.6	2.403	3.347	7.6	19.2	7 10	17 25.03	-17 11.0	1.625	2.573	10.3	19.1
7 20	17 19.44	-21 20.7	2.481	3.349	10.5	19.4	7 20	17 18.87	-17 3.2	1.696	2.576	14.0	19.3
233844	2008 <i>UU</i> ₃₀₇		6 17.7 14°57	4°5/18.2	18		75583	2000 <i>AR</i> ₁₄		6 17.7 129°60	0°2/17.8	18	
5 11	18 12.05	-33 20.9	1.401	2.248	17.8	19.5	5 11	18 17.11	-24 5.1	1.847	2.672	15.1	20.3
5 21	18 8.79	-33 40.5	1.336	2.252	14.2	19.3	5 21	18 11.62	-24 3.7	1.775	2.684	11.7	20.1
5 31	18 2.25	-33 51.0	1.289	2.257	10.2	19.1	5 31	18 3.60	-24 1.2	1.726	2.696	7.8	19.9
6 10	17 53.33	-33 48.3	1.265	2.264	6.2	18.9	6 10	17 53.81	-23 56.2	1.701	2.708	3.5	19.7
6 20	17 43.36	-33 30.0	1.264	2.271	4.6	18.8	6 20	17 43.26	-23 47.9	1.703	2.719	1.0	19.5
6 30	17 33.90	-32 57.1	1.287	2.279	7.5	19.0	6 30	17 33.10	-23 37.0	1.733	2.729	5.4	19.8
7 10	17 26.39	-32 13.7	1.333	2.288	11.5	19.2	7 10	17 24.43	-23 24.8	1.789	2.739	9.4	20.1
7 20	17 21.75	-31 25.3	1.400	2.298	15.3	19.5	7 20	17 17.99	-23 13.4	1.869	2.748	12.9	20.3
469546	2003 <i>SX</i> ₄₃₂		6 17.7 265°70	2°2/17.5	16		98301	2000 <i>SS</i> ₂₃₇		6 17.7 279°28	0°6/17.7	18	
5 11	18 11.78	-18 24.0	1.983	2.811	14.1	22.0	5 11	18 15.26	-22 47.0	1.502	2.343	17.1	19.2
5 21	18 7.51	-18 3.6	1.890	2.799	11.1	21.8	5 21	18 11.37	-23 15.4	1.404	2.323	13.5	18.9
5 31	18 0.95	-17 45.3	1.818	2.787	7.6	21.6	5 31	18 4.23	-23 47.5	1.327	2.302	9.2	18.6
6 10	17 52.69	-17 29.6	1.771	2.775	3.9	21.3	6 10	17 54.43	-24 21.0	1.273	2.281	4.2	18.3
6 20	17 43.54	-17 17.2	1.751	2.762	2.5	21.2	6 20	17 42.99	-24 52.5	1.244	2.259	1.4	18.0
6 30	17 34.50	-17 8.9	1.757	2.750	5.8	21.4	6 30	17 31.41	-25 19.7	1.240	2.237	6.8	18.3
7 10	17 26.58	-17 5.4	1.790	2.737	9.6	21.6	7 10	17 21.27	-25 42.1	1.260	2.216	11.9	18.6
7 20	17 20.54	-17 7.3	1.846	2.724	13.1	21.8	7 20	17 13.81	-26 0.8	1.301	2.194	16.5	18.8
422514	2014 <i>TP</i> ₆		6 17.7 208°21	3°3/17.7	17		92126	1999 <i>XX</i> ₁₀₆		6 17.7 269°54	5°3/17.5	18	
5 11	18 18.53	-29 33.1	1.657	2.486	16.4	21.8	5 11	18 14.82	-37 42.8	2.468	3.266	12.5	19.4
5 21	18 13.53	-30 12.4	1.574	2.482	13.0	21.5	5 21	18 9.96	-38 38.3	2.371	3.253	10.3	19.2
5 31	18 5.37	-30 48.9	1.512	2.478	9.0	21.3	5 31	18 2.67	-39 27.7	2.297	3.239	7.9	19.0
6 10	17 54.79	-31 18.1	1.473	2.474	5.0	21.0	6 10	17 53.51	-40 6.7	2.248	3.225	5.9	18.9
6 20	17 42.91	-31 36.0	1.460	2.469	3.5	20.9	6 20	17 43.30	-40 31.7	2.226	3.210	5.4	18.8
6 30	17 31.22	-31 41.0	1.473	2.464	6.8	21.1	6 30	17 33.09	-40 40.9	2.231	3.196	6.8	18.9
7 10	17 21.17	-31 34.7	1.511	2.458	11.0	21.3	7 10	17 23.98	-40 35.3	2.262	3.182	9.2	19.0
7 20	17 13.81	-31 20.7	1.572	2.452	14.8	21.6	7 20	17 16.82	-40 17.9	2.316	3.167	11.8	19.1
501687	2014 <i>TM</i> ₆₀		6 17.7 223°25	1°8/17.6	17		346470	2008 <i>TW</i> ₁₅₈		6 17.8 303°86	0°2/17.7	17	
5 11	18 15.84	-20 11.9	1.634	2.468	16.3	22.6	5 11	18 11.65	-23 30.7	1.623	2.466	16.0	21.2
5 21	18 11.13	-19 51.8	1.548	2.461	12.8	22.4	5 21	18 8.12	-23 23.3	1.528	2.448	12.6	20.9
5 31	18 3.59	-19 32.7	1.483	2.455	8.7	22.1	5 31	18 1.75	-23 14.9	1.454	2.429	8.5	20.6
6 10	17 53.93	-19 14.7	1.442	2.448	4.2	21.8	6 10	17 53.19	-23 4.6	1.403	2.411	3.8	20.3
6 20	17 43.17	-18 58.4	1.426	2.440	2.2	21.7	6 20	17 43.40	-22 52.0	1.378	2.393	1.2	20.1
6 30	17 32.63	-18 44.6	1.437	2.432	6.4	21.9	6 30	17 33.68	-22 37.6	1.378	2.376	6.1	20.4
7 10	17 23.56	-18 35.0	1.473	2.424	11.0	22.1	7 10	17 25.33	-22 23.1	1.402	2.358	10.9	20.6
7 20	17 16.88	-18 30.6	1.531	2.415	15.0	22.4	7 20	17 19.36	-22 10.4	1.448	2.341	15.1	20.8
207049	2004 <i>XJ</i> ₄₄		6 17.7 261°73	0°2/17.8	18		41559	2000 <i>RD</i> ₆₀		6 17.8 152°66	4°6/17.6	18	
5 11	18 12.80	-21 29.7	1.922	2.752	14.4	20.4	5 11	18 15.50	-12 30.1	1.790	2.608	15.7	19.1
5 21	18 8.43	-21 49.2	1.835	2.747	11.2	20.2	5 21	18 10.35	-12 0.8	1.716	2.616	12.6	18.9
5 31	18 1.63	-22 11.3	1.770	2.742	7.5	20.0	5 31	18 2.77	-11 38.6	1.663	2.623	9.0	18.7
6 10	17 53.01	-22 34.4	1.730	2.737	3.4	19.7	6 10	17 53.46	-11 25.3	1.635	2.629	5.7	18.5
6 20	17 43.44	-22 57.1	1.717	2.732	1.0	19.5	6 20	17 43.36	-11 22.1	1.633	2.635	4.7	18.5
6 30	17 34.00	-23 18.0	1.731	2.727	5.3	19.8	6 30	17 33.58	-11 29.5	1.658	2.640	7.2	18.6
7 10	17 25.76	-23 37.1	1.770	2.722	9.3	20.0	7 10	17 25.14	-11 46.8	1.707	2.644	10.7	18.8
7 20	17 19.55	-23 54.9	1.833	2.717	12.9	20.2	7 20	17 18.79	-12 12.8	1.780	2.648	14.0	19.1
24387	Trettel		6 17.7 219°25	3°2/17.5	18		350812	2002 <i>CV</i> ₂₇₅					

EPHEMERIDES

6 17.8

6 17.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
216872	2008 <i>DB</i> ₈₁		6 17.8 166°06	5°3/17.4	16		48095	2001 <i>FZ</i> ₅₀		6 17.8 47°82	2°0/17.9	18	R
5 11	18 9.23	- 6 22.5	2.621	3.414	12.0	21.1	5 11	18 15.12	-27 28.7	1.370	2.218	18.1	18.8
5 21	18 4.77	- 5 50.2	2.540	3.417	9.9	20.9	5 21	18 11.04	-27 42.1	1.306	2.227	14.2	18.5
5 31	17 58.73	- 5 26.1	2.483	3.420	7.6	20.8	5 31	18 3.70	-27 51.8	1.262	2.237	9.6	18.3
6 10	17 51.59	- 5 12.3	2.450	3.422	5.8	20.7	6 10	17 54.02	-27 55.1	1.241	2.247	4.7	18.0
6 20	17 43.93	- 5 9.9	2.445	3.424	5.4	20.7	6 20	17 43.30	-27 49.9	1.243	2.257	2.3	17.9
6 30	17 36.44	- 5 19.4	2.467	3.426	6.7	20.7	6 30	17 33.11	-27 36.5	1.271	2.268	6.7	18.2
7 10	17 29.76	- 5 40.0	2.515	3.427	8.8	20.9	7 10	17 24.86	-27 17.6	1.321	2.279	11.3	18.5
7 20	17 24.42	- 6 10.4	2.587	3.428	11.0	21.0	7 20	17 19.46	-26 56.7	1.393	2.290	15.4	18.8
18501	1996 <i>OB</i>		6 17.8 323°18	1°2/17.7	18	R	121602	1999 <i>VU</i> ₁₃₆		6 17.8 125°75	0°8/17.7	17	
5 11	18 13.88	-22 7.3	1.376	2.226	17.9	18.3	5 11	18 10.40	-21 21.5	2.603	3.421	11.4	20.5
5 21	18 10.08	-21 48.2	1.300	2.222	14.1	18.0	5 21	18 5.77	-21 9.9	2.523	3.428	8.8	20.4
5 31	18 3.12	-21 28.8	1.243	2.219	9.5	17.7	5 31	17 59.43	-20 58.5	2.466	3.436	5.9	20.2
6 10	17 53.79	-21 8.8	1.209	2.216	4.3	17.4	6 10	17 51.93	-20 47.2	2.436	3.443	2.7	20.0
6 20	17 43.30	-20 48.7	1.199	2.214	1.7	17.2	6 20	17 43.92	-20 36.1	2.435	3.449	1.1	19.9
6 30	17 33.13	-20 29.7	1.213	2.211	6.8	17.6	6 30	17 36.12	-20 25.8	2.462	3.456	4.2	20.1
7 10	17 24.71	-20 13.9	1.251	2.209	11.8	17.8	7 10	17 29.25	-20 16.9	2.516	3.462	7.2	20.3
7 20	17 19.01	-20 3.1	1.310	2.207	16.2	18.1	7 20	17 23.84	-20 10.2	2.595	3.469	9.9	20.5
478849	2012 <i>VQ</i> ₆₀		6 17.8 284°58	1°5/17.6	16		107228	2001 <i>BS</i> ₅₂		6 17.8 216°05	3°9/17.4	17	
5 11	18 11.41	-20 2.0	1.919	2.751	14.3	22.0	5 11	18 14.50	-15 21.5	1.717	2.545	15.9	20.6
5 21	18 7.33	-19 48.0	1.827	2.740	11.2	21.8	5 21	18 9.87	-14 45.6	1.633	2.541	12.6	20.3
5 31	18 0.90	-19 35.3	1.757	2.729	7.6	21.5	5 31	18 2.65	-14 13.8	1.570	2.536	8.9	20.1
6 10	17 52.71	-19 24.1	1.712	2.718	3.7	21.3	6 10	17 53.52	-13 47.9	1.531	2.530	5.3	19.9
6 20	17 43.61	-19 14.5	1.692	2.706	1.9	21.1	6 20	17 43.44	-13 29.6	1.518	2.524	4.1	19.8
6 30	17 34.64	-19 7.3	1.700	2.695	5.6	21.4	6 30	17 33.56	-13 20.2	1.531	2.518	7.1	20.0
7 10	17 26.82	-19 3.2	1.733	2.684	9.6	21.6	7 10	17 25.02	-13 20.4	1.569	2.512	11.0	20.2
7 20	17 20.97	-19 3.1	1.790	2.673	13.2	21.8	7 20	17 18.67	-13 29.8	1.630	2.505	14.7	20.4
148446	2000 <i>XG</i> ₅₄		6 17.8 163°73	0°2/17.8	18		386604	2009 <i>GO</i> ₅		6 17.8 10°79	7°0/17.7	16	
5 11	18 10.84	-22 1.4	2.754	3.568	10.9	20.7	5 11	18 7.27	- 6 59.5	1.665	2.493	16.3	20.1
5 21	18 6.08	-22 11.2	2.668	3.572	8.5	20.6	5 21	18 4.16	- 6 20.8	1.598	2.496	13.4	19.9
5 31	17 59.64	-22 21.7	2.607	3.575	5.6	20.4	5 31	17 58.76	- 5 54.4	1.550	2.499	10.4	19.7
6 10	17 52.02	-22 32.0	2.572	3.578	2.5	20.2	6 10	17 51.74	- 5 43.6	1.524	2.504	7.8	19.6
6 20	17 43.83	-22 41.6	2.565	3.581	0.8	20.0	6 20	17 43.97	- 5 50.1	1.523	2.509	7.1	19.5
6 30	17 35.80	-22 50.0	2.588	3.583	3.9	20.3	6 30	17 36.47	- 6 14.2	1.545	2.516	8.8	19.6
7 10	17 28.61	-22 57.6	2.639	3.585	6.9	20.5	7 10	17 30.21	- 6 53.8	1.591	2.523	11.7	19.8
7 20	17 22.83	-23 4.8	2.715	3.587	9.6	20.7	7 20	17 25.91	- 7 45.8	1.659	2.531	14.6	20.0
498423	2008 <i>AA</i> ₄₂		6 17.8 164°94	2°8/17.9	17		1101	<i>Clematis</i>		6 17.8 323°47	9°3/15.7	18	
5 11	18 18.75	-30 28.6	1.875	2.694	15.1	22.4	5 11	18 7.63	+ 1 17.9	2.273	3.051	14.1	15.5
5 21	18 13.15	-30 44.5	1.796	2.699	11.9	22.2	5 21	18 3.85	+ 2 42.4	2.197	3.045	12.2	15.4
5 31	18 4.79	-30 55.0	1.739	2.703	8.3	21.9	5 31	17 58.30	+ 3 54.9	2.141	3.040	10.6	15.2
6 10	17 54.43	-30 57.0	1.706	2.707	4.5	21.7	6 10	17 51.48	+ 4 50.8	2.109	3.035	9.4	15.2
6 20	17 43.13	-30 48.5	1.699	2.710	2.9	21.6	6 20	17 44.05	+ 5 26.5	2.100	3.030	9.4	15.1
6 30	17 32.18	-30 29.5	1.720	2.712	6.0	21.8	6 30	17 36.77	+ 5 40.1	2.116	3.025	10.4	15.2
7 10	17 22.78	-30 2.7	1.768	2.714	9.7	22.0	7 10	17 30.37	+ 5 32.1	2.155	3.020	12.0	15.3
7 20	17 15.79	-29 31.6	1.838	2.715	13.2	22.3	7 20	17 25.45	+ 5 4.8	2.215	3.016	13.9	15.4
154910	2004 <i>RA</i> ₃₃₇		6 17.8 260°31	6°2/17.8	18		489085	2006 <i>AU</i> ₁₀₄		6 17.8 142°75	1°0/17.9	17	
5 11	18 15.31	-41 11.1	2.476	3.265	12.7	20.1	5 11	18 15.37	-26 17.6	2.078	2.899	13.8	22.2
5 21	18 10.31	-42 4.2	2.393	3.263	10.6	19.9	5 21	18 10.13	-26 21.8	2.000	2.907	10.7	22.0
5 31	18 2.86	-42 48.4	2.332	3.261	8.4	19.8	5 31	18 2.58	-26 23.5	1.945	2.914	7.2	21.8
6 10	17 53.58	-43 19.3	2.296	3.260	6.7	19.7	6 10	17 53.41	-26 21.1	1.915	2.921	3.3	21.6
6 20	17 43.37	-43 33.6	2.285	3.258	6.2	19.6	6 20	17 43.50	-26 13.7	1.913	2.928	1.3	21.4
6 30	17 33.34	-43 30.2	2.302	3.256	7.3	19.7	6 30	17 33.90	-26 1.6	1.938	2.934	5.0	21.7
7 10	17 24.55	-43 10.9	2.343	3.254	9.4	19.8	7 10	17 25.59	-25 46.3	1.991	2.939	8.7	21.9
7 20	17 17.83	-42 39.5	2.408	3.253	11.6	20.0	7 20	17 19.29	-25 29.9	2.067	2.945	11.9	22.1
338814	2003 <i>WM</i> ₄₀		6 17.8 321°70	0°3/17.7	18		330633	2008 <i>EK</i> ₁₂₂		6 17.8 166°24	4°4/18.0	18	
5 11	18 10.71	-24 45.0	1.601	2.447	16.0	19.8	5 11	18 14.32	-36 7.2	2.433	3.236	12.5	20.9
5 21	18 7.35	-24 16.7	1.510	2.431	12.6	19.6	5 21	18 9.33	-36 41.4	2.350	3.237	10.1	20.8
5 31	18 1.20	-23 44.2	1.440	2.416	8.5	19.3	5 31	18 2.09	-37 8.6	2.289	3.239	7.5	20.6
6 10	17 52.93	-23 7.5	1.393	2.401	3.8	19.0	6 10	17 53.21	-37 25.6	2.254	3.239	5.2	20.4
6 20	17 43.56	-22 27.1	1.371	2.386	1.2	18.7	6 20	17 43.55	-37 29.9	2.246	3.240	4.4	20.4
6 30	17 34.37	-21 45.4	1.374	2.372	6.1	19.0	6 30	17 34.10	-37 21.1	2.265	3.241	6.0	20.5
7 10	17 26.62	-21 5.4	1.401	2.359	10.8	19.3	7 10	17 25.83	-37 0.9	2.310	3.242	8.5	20.7
7 20	17 21.24	-20 30.2	1.451	2.346	15.0	19.5	7 20	17 19.48	-36 32.3	2.380	3.242	11.1	20.8
125743	2001 <i>XE</i> ₁₁₈		6 17.8 241°50	1°5/17.7	18		314624	2006 <i>FO</i> ₄₁		6 17.8 275°19	2°8/17.7	18	
5 11	18 15.14	-25 37.8	1.962	2.787	14.3	20.4	5 11	18 16.49	-27 34.6	1.504	2.343	17.2	20.8
5 21	18 10.38	-26 8.4	1.869	2.777	11.2	20.2	5 21	18 12.47	-28 10.2	1.408	2.324	13.7	20.6
5 31	18 3.05	-26 39.1	1.797	2.767	7.6	19.9	5 31	18 5.06	-28 45.5	1.333	2.304	9.5	20.3
6 10	17 53.73	-27 7.3	1.751	2.757	3.7	19.7	6 10	17 54.87	-29 16.1	1.280	2.284	5.0	19.9
6 20	17 43.33	-27 30.3	1.732	2.746	1.8	19.5	6 20	17 43.01	-29 38.0	1.252	2.264	3.0	19.8
6 30	17 32.98	-27 46.9	1.740	2.734	5.5	19.7	6 30	17 31.04	-29 48.6	1.249	2.243	7.2	20.0
7 10	17 23.84	-27 57.1	1.774	2.723	9.5	19.9	7 10	17 20.64	-29 48.7	1.270	2.223	12.1	20.2
7 20	17 16.83	-28 2.7	1.832	2.711	13.1	20.1	7 20	17 13.08	-29 41.7	1.312	2.202	16.6	20.4
32453	<i>Kanamishogo</i>		6 17.8 100°28	5°0/17.9	18		387152	2012 <i>TF</i> ₂₃₃					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
438169	2005 <i>TJ</i> ₂₄		6 17.8 311 ^o .14	0 ^o .7/17.8 16			510908	2013 <i>DO</i> ₈		6 17.8 109 ^o .30	3 ^o .6/17.4 17		
5 11	18 10.26	-24 50.1	1.950	2.785	14.0	21.6	5 11	18 9.87	-12 17.8	2.595	3.403	11.7	22.3
5 21	18 6.64	-24 59.8	1.850	2.764	11.0	21.3	5 21	18 5.25	-11 47.7	2.523	3.416	9.3	22.2
5 31	18 0.59	-25 8.9	1.771	2.744	7.4	21.1	5 31	17 59.05	-11 22.7	2.475	3.430	6.7	22.0
6 10	17 52.67	-25 15.9	1.717	2.724	3.4	20.8	6 10	17 51.77	-11 4.1	2.453	3.443	4.4	21.9
6 20	17 43.70	-25 19.5	1.689	2.705	1.2	20.6	6 20	17 44.05	-10 52.8	2.458	3.456	3.7	21.9
6 30	17 34.75	-25 19.3	1.688	2.685	5.3	20.8	6 30	17 36.57	-10 49.4	2.492	3.469	5.4	22.0
7 10	17 26.93	-25 16.1	1.712	2.666	9.4	21.0	7 10	17 29.98	-10 53.7	2.552	3.482	7.9	22.2
7 20	17 21.08	-25 11.5	1.760	2.648	13.1	21.2	7 20	17 24.77	-11 5.2	2.637	3.494	10.3	22.4
215219	2000 <i>UR</i> ₁₁₂		6 17.8 303 ^o .88	2 ^o .7/17.5 18			256917	2008 <i>EJ</i> ₅		6 17.8 354 ^o .62	0 ^o .7/17.8 17		
5 11	18 12.47	-28 9.7	2.063	2.890	13.7	20.2	5 11	18 12.69	-22 50.4	1.354	2.208	18.0	19.9
5 21	18 8.34	-28 58.9	1.967	2.875	10.8	19.9	5 21	18 9.35	-23 22.2	1.281	2.205	14.1	19.7
5 31	18 1.74	-29 47.9	1.893	2.861	7.5	19.7	5 31	18 2.80	-23 57.3	1.226	2.203	9.5	19.4
6 10	17 53.19	-30 33.2	1.845	2.846	4.1	19.5	6 10	17 53.77	-24 32.9	1.194	2.202	4.3	19.1
6 20	17 43.55	-31 11.4	1.823	2.832	2.9	19.4	6 20	17 43.44	-25 5.7	1.185	2.201	1.4	18.9
6 30	17 33.88	-31 40.4	1.828	2.818	5.8	19.5	6 30	17 33.35	-25 33.7	1.202	2.201	6.7	19.2
7 10	17 25.31	-31 59.8	1.859	2.805	9.4	19.7	7 10	17 24.98	-25 56.3	1.241	2.201	11.7	19.5
7 20	17 18.75	-32 11.3	1.914	2.791	12.7	19.9	7 20	17 19.40	-26 14.9	1.301	2.202	16.0	19.8
22334	1992 <i>ES</i> ₆		6 17.8 221 ^o .84	1 ^o .5/17.8 18			314639	2006 <i>JX</i> ₂₈		6 17.8 335 ^o .06	2 ^o .1/17.6 18		
5 11	18 13.23	-18 20.5	2.384	3.198	12.4	19.6	5 11	18 11.20	-24 17.8	1.161	2.027	19.5	19.6
5 21	18 8.28	-18 23.5	2.286	3.189	9.7	19.4	5 21	18 8.90	-25 6.4	1.084	2.016	15.4	19.3
5 31	18 1.33	-18 29.5	2.212	3.179	6.6	19.1	5 31	18 2.94	-25 59.4	1.026	2.006	10.5	19.0
6 10	17 52.89	-18 38.2	2.164	3.168	3.2	18.9	6 10	17 54.00	-26 52.6	0.989	1.996	5.0	18.7
6 20	17 43.66	-18 49.3	2.144	3.157	1.7	18.8	6 20	17 43.34	-27 40.7	0.974	1.988	2.6	18.5
6 30	17 34.51	-19 2.3	2.152	3.145	4.8	19.0	6 30	17 32.77	-28 19.6	0.981	1.980	7.8	18.8
7 10	17 26.28	-19 17.1	2.188	3.133	8.2	19.2	7 10	17 24.11	-28 48.6	1.011	1.974	13.2	19.1
7 20	17 19.65	-19 33.8	2.249	3.120	11.3	19.3	7 20	17 18.69	-29 9.2	1.059	1.968	18.1	19.3
289484	2005 <i>EB</i> ₈₈		6 17.8 129 ^o .34	2 ^o .5/17.5 18			209360	2004 <i>DF</i> ₅₃		6 17.8 263 ^o .88	2 ^o .8/17.7 18		
5 11	18 12.70	-17 42.9	2.183	3.003	13.2	20.7	5 11	18 10.90	-15 28.0	2.130	2.952	13.4	20.9
5 21	18 7.79	-17 11.9	2.107	3.012	10.3	20.5	5 21	18 6.68	-15 19.6	2.038	2.943	10.6	20.7
5 31	18 0.89	-16 42.9	2.054	3.021	7.1	20.3	5 31	18 0.37	-15 16.1	1.968	2.933	7.4	20.4
6 10	17 52.62	-16 16.9	2.027	3.029	3.8	20.1	6 10	17 52.51	-15 18.1	1.923	2.923	4.1	20.2
6 20	17 43.77	-15 54.8	2.027	3.037	2.7	20.0	6 20	17 43.84	-15 25.8	1.904	2.914	2.9	20.1
6 30	17 35.20	-15 37.8	2.056	3.045	5.4	20.2	6 30	17 35.26	-15 39.2	1.914	2.904	5.6	20.3
7 10	17 27.76	-15 26.7	2.110	3.052	8.6	20.4	7 10	17 27.69	-15 57.9	1.949	2.894	9.1	20.5
7 20	17 22.05	-15 21.9	2.189	3.059	11.6	20.6	7 20	17 21.82	-16 21.4	2.008	2.884	12.3	20.7
5450	Sokrates		6 17.8 155 ^o .97	2 ^o .1/17.7 18			59688	1999 <i>JO</i> ₁₁₀		6 17.8 339 ^o .06	1 ^o .5/17.8 18		
5 11	18 12.20	-16 58.8	2.303	3.120	12.7	17.4	5 11	18 12.20	-18 54.6	1.609	2.449	16.2	19.4
5 21	18 7.38	-16 50.9	2.222	3.125	10.0	17.3	5 21	18 8.37	-19 3.2	1.529	2.446	12.7	19.1
5 31	18 0.63	-16 46.5	2.164	3.129	6.8	17.1	5 31	18 1.83	-19 16.6	1.470	2.444	8.6	18.9
6 10	17 52.53	-16 45.8	2.131	3.134	3.6	16.9	6 10	17 53.25	-19 34.0	1.435	2.441	4.1	18.6
6 20	17 43.79	-16 48.8	2.127	3.138	2.3	16.8	6 20	17 43.63	-19 54.4	1.424	2.439	1.8	18.4
6 30	17 35.25	-16 55.5	2.150	3.141	5.0	17.0	6 30	17 34.20	-20 16.8	1.440	2.437	6.1	18.7
7 10	17 27.73	-17 6.0	2.201	3.144	8.3	17.2	7 10	17 26.17	-20 40.5	1.480	2.435	10.5	19.0
7 20	17 21.85	-17 20.1	2.276	3.147	11.2	17.4	7 20	17 20.45	-21 5.5	1.542	2.434	14.5	19.2
261905	2006 <i>JW</i> ₁₆		6 17.8 258 ^o .93	0 ^o .3/17.8 18			52140	6603 <i>P-L</i>		6 17.8 250 ^o .85	1 ^o .1/17.7 18		
5 11	18 13.01	-22 48.2	1.974	2.803	14.1	20.7	5 11	18 12.60	-20 6.6	2.386	3.204	12.3	20.9
5 21	18 8.60	-23 10.6	1.886	2.797	11.0	20.5	5 21	18 7.88	-20 1.6	2.281	3.186	9.7	20.6
5 31	18 1.78	-23 34.6	1.819	2.791	7.4	20.3	5 31	18 1.13	-19 58.0	2.199	3.168	6.5	20.4
6 10	17 53.16	-23 58.7	1.778	2.785	3.3	20.0	6 10	17 52.85	-19 55.5	2.144	3.149	3.1	20.2
6 20	17 43.58	-24 20.8	1.764	2.779	1.0	19.8	6 20	17 43.74	-19 53.9	2.116	3.130	1.4	20.0
6 30	17 34.12	-24 39.8	1.777	2.773	5.2	20.1	6 30	17 34.66	-19 53.4	2.116	3.110	4.8	20.2
7 10	17 25.84	-24 55.8	1.816	2.767	9.2	20.3	7 10	17 26.47	-19 54.3	2.144	3.090	8.3	20.4
7 20	17 19.55	-25 9.6	1.878	2.761	12.7	20.5	7 20	17 19.89	-19 57.4	2.196	3.069	11.5	20.5
28937	2000 <i>SM</i> ₁₆₂		6 17.8 325 ^o .93	2 ^o .0/17.7 18			95046	2002 <i>AY</i> ₃₆		6 17.8 81 ^o .71	3 ^o .2/18.2 18		
5 11	18 12.12	-26 28.9	2.043	2.871	13.7	18.7	5 11	18 14.43	-12 47.2	1.730	2.554	16.0	19.3
5 21	18 7.93	-27 10.6	1.956	2.866	10.7	18.5	5 21	18 9.74	-13 12.0	1.657	2.562	12.7	19.1
5 31	18 1.36	-27 52.5	1.891	2.861	7.3	18.3	5 31	18 2.54	-13 47.4	1.605	2.570	8.8	18.9
6 10	17 52.99	-28 31.4	1.852	2.856	3.7	18.1	6 10	17 53.50	-14 32.9	1.578	2.578	5.0	18.7
6 20	17 43.65	-29 4.8	1.839	2.852	2.2	18.0	6 20	17 43.57	-15 26.5	1.576	2.586	3.3	18.6
6 30	17 34.41	-29 30.7	1.854	2.847	5.4	18.2	6 30	17 33.88	-16 25.8	1.602	2.594	6.3	18.8
7 10	17 26.32	-29 49.1	1.894	2.843	9.0	18.4	7 10	17 25.52	-17 28.1	1.653	2.601	10.1	19.0
7 20	17 20.20	-30 1.4	1.959	2.839	12.4	18.6	7 20	17 19.31	-18 31.0	1.728	2.609	13.7	19.3
182952	2002 <i>HH</i> ₁₆		6 17.8 76 ^o .23	0 ^o .3/17.8 18			14490	1994 <i>US</i> ₂		6 17.8 194 ^o .20	0 ^o .9/17.8 18		
5 11	18 11.08	-24 6.0	2.307	3.131	12.5	20.7	5 11	18 16.27	-25 9.1	2.019	2.840	14.1	18.7
5 21	18 6.59	-24 13.7	2.231	3.140	9.7	20.6	5 21	18 11.06	-25 23.8	1.932	2.839	11.0	18.5
5 31	18 0.14	-24 20.7	2.177	3.148	6.4	20.4	5 31	18 3.38	-25 37.5	1.867	2.836	7.4	18.3
6 10	17 52.32	-24 26.1	2.149	3.156	2.9	20.2	6 10	17 53.88	-25 48.3	1.827	2.833	3.4	18.0
6 20	17 43.87	-24 29.0	2.149	3.164	0.9	20.0	6 20	17 43.46	-25 54.7	1.815	2.830	1.3	17.8
6 30	17 35.67	-24 29.4	2.177	3.173	4.4	20.3	6 30	17 33.22	-25 56.1	1.831	2.826	5.2	18.1
7 10	17 28.53	-24 28.0	2.231	3.181	7.8	20.5	7 10	17 24.24	-25 53.5	1.873	2.822	9.1	18.3
7 20	17 23.07	-24 25.8	2.310	3.189	10.8	20.7	7 20	17 17.33	-25 48.7				

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
433447	2013 <i>TY</i> ₁₃₆		6 17.8 159°87	8°1/17.3 17			199546	2006 <i>DT</i> ₂₁₆		6 17.8 273°83	3°7/17.9 17		
5 11	18 12.23	- 2 18.0	2.036	2.826	15.1	21.8	5 11	18 15.02	-31 55.7	1.864	2.689	15.0	21.0
5 21	18 7.55	- 1 23.2	1.964	2.830	12.8	21.7	5 21	18 10.54	-32 26.6	1.778	2.683	11.9	20.8
5 31	18 0.82	- 0 40.8	1.912	2.834	10.4	21.5	5 31	18 3.28	-32 52.3	1.714	2.677	8.5	20.6
6 10	17 52.66	- 0 14.8	1.883	2.838	8.6	21.4	6 10	17 53.93	-33 9.0	1.673	2.671	5.1	20.4
6 20	17 43.83	- 0 7.7	1.880	2.841	8.2	21.4	6 20	17 43.49	-33 13.9	1.659	2.665	3.8	20.3
6 30	17 35.23	- 0 20.1	1.901	2.843	9.4	21.5	6 30	17 33.24	-33 6.2	1.671	2.659	6.5	20.4
7 10	17 27.71	- 0 50.8	1.947	2.846	11.6	21.6	7 10	17 24.43	-32 47.6	1.708	2.653	10.1	20.6
7 20	17 21.94	- 1 36.6	2.015	2.848	14.0	21.8	7 20	17 17.98	-32 21.9	1.768	2.648	13.5	20.8
316907	2000 <i>TJ</i> ₂₀		6 17.8 277°03	0°8/17.8 18			476158	2007 <i>TU</i> ₃₅₇		6 17.8 310°37	1°8/17.7 16		
5 11	18 16.11	-23 11.6	1.548	2.386	16.8	20.5	5 11	18 10.28	-19 59.4	1.675	2.517	15.6	21.4
5 21	18 12.06	-23 41.9	1.447	2.363	13.4	20.2	5 21	18 6.96	-19 42.4	1.578	2.496	12.3	21.1
5 31	18 4.77	-24 15.8	1.365	2.339	9.1	19.9	5 31	18 1.00	-19 26.8	1.502	2.475	8.4	20.8
6 10	17 54.80	-24 50.7	1.307	2.315	4.2	19.6	6 10	17 52.96	-19 12.9	1.449	2.455	4.1	20.5
6 20	17 43.14	-25 23.2	1.275	2.290	1.5	19.3	6 20	17 43.76	-19 1.2	1.421	2.435	2.1	20.3
6 30	17 31.27	-25 50.7	1.268	2.265	6.7	19.6	6 30	17 34.59	-18 52.5	1.419	2.415	6.3	20.6
7 10	17 20.76	-26 12.8	1.285	2.240	11.9	19.8	7 10	17 26.66	-18 47.8	1.441	2.395	10.8	20.8
7 20	17 12.88	-26 30.5	1.324	2.214	16.5	20.0	7 20	17 20.93	-18 48.2	1.484	2.376	14.9	21.0
439722	2015 <i>DB</i> ₂₀₈		6 17.8 4°42	4°5/17.9 17			144094	2004 <i>BC</i> ₅₈		6 17.8 153°42	2°0/17.6 18		
5 11	18 9.63	-12 10.5	1.574	2.412	16.6	21.0	5 11	18 14.93	-20 5.0	1.671	2.505	16.0	20.2
5 21	18 6.27	-12 3.4	1.501	2.412	13.3	20.8	5 21	18 10.26	-19 37.3	1.595	2.508	12.5	20.0
5 31	18 0.36	-12 6.5	1.447	2.412	9.5	20.5	5 31	18 2.93	-19 10.4	1.539	2.511	8.5	19.7
6 10	17 52.57	-12 21.0	1.416	2.413	5.9	20.3	6 10	17 53.71	-18 44.9	1.507	2.513	4.1	19.5
6 20	17 43.85	-12 47.1	1.410	2.415	4.6	20.3	6 20	17 43.59	-18 21.6	1.502	2.515	2.3	19.3
6 30	17 35.36	-13 23.7	1.428	2.417	7.3	20.4	6 30	17 33.81	-18 2.0	1.523	2.517	6.2	19.6
7 10	17 28.23	-14 8.9	1.471	2.420	11.1	20.6	7 10	17 25.51	-17 47.6	1.568	2.519	10.4	19.8
7 20	17 23.27	-15 0.1	1.535	2.424	14.7	20.9	7 20	17 19.49	-17 39.4	1.637	2.520	14.2	20.1
105937	2000 <i>SR</i> ₂₂₅		6 17.8 178°09	4°6/17.3 18			446613	2015 <i>MJ</i> ₇₆		6 17.8 253°04	4°3/17.7 18		
5 11	18 8.94	- 6 32.1	3.181	3.965	10.3	21.3	5 11	18 9.44	-10 3.2	2.398	3.206	12.5	21.2
5 21	18 4.31	- 6 1.5	3.096	3.967	8.4	21.1	5 21	18 5.26	- 9 46.5	2.308	3.199	10.1	21.0
5 31	17 58.35	- 5 37.6	3.035	3.968	6.5	21.0	5 31	17 59.28	- 9 37.2	2.240	3.192	7.5	20.8
6 10	17 51.49	- 5 22.0	2.999	3.969	5.0	20.9	6 10	17 52.01	- 9 36.6	2.197	3.184	5.1	20.7
6 20	17 44.19	- 5 15.6	2.992	3.970	4.6	20.9	6 20	17 44.07	- 9 45.6	2.181	3.177	4.4	20.6
6 30	17 37.02	- 5 19.0	3.013	3.969	5.7	20.9	6 30	17 36.23	-10 4.3	2.192	3.169	6.1	20.7
7 10	17 30.51	- 5 31.8	3.061	3.969	7.5	21.1	7 10	17 29.25	-10 31.8	2.230	3.161	8.8	20.8
7 20	17 25.10	- 5 53.0	3.134	3.967	9.5	21.2	7 20	17 23.73	-11 6.8	2.292	3.154	11.5	21.0
432688	2011 <i>BK</i> ₆₃		6 17.8 198°69	0°2/17.8 17			156178	2001 <i>TM</i> ₁₈₁		6 17.8 137°28	6°6/18.1 17		
5 11	18 15.82	-22 27.9	2.049	2.870	13.9	22.5	5 11	18 22.41	-40 51.1	2.179	2.965	14.3	20.8
5 21	18 10.63	-22 34.1	1.960	2.867	10.9	22.3	5 21	18 16.05	-41 49.2	2.109	2.978	11.9	20.6
5 31	18 3.06	-22 40.9	1.894	2.864	7.3	22.1	5 31	18 6.80	-42 37.0	2.060	2.990	9.3	20.5
6 10	17 53.74	-22 47.2	1.853	2.860	3.3	21.8	6 10	17 55.44	-43 8.9	2.036	3.002	7.3	20.4
6 20	17 43.53	-22 51.8	1.839	2.855	1.0	21.7	6 20	17 43.10	-43 21.1	2.038	3.013	6.6	20.3
6 30	17 33.47	-22 54.6	1.854	2.850	5.1	21.9	6 30	17 31.13	-43 12.7	2.067	3.023	7.9	20.4
7 10	17 24.62	-22 56.1	1.895	2.844	9.0	22.2	7 10	17 20.80	-42 46.6	2.121	3.033	10.2	20.6
7 20	17 17.74	-22 57.5	1.960	2.837	12.5	22.4	7 20	17 12.99	-42 7.7	2.199	3.042	12.6	20.8
14419	1991 <i>RK</i> ₂₃		6 17.8 310°01	0°3/17.8 18			145796	1998 <i>RM</i> ₂₂		6 17.8 301°61	3°5/17.9 18		
5 11	18 13.19	-21 43.5	1.251	2.109	18.9	17.7	5 11	18 13.98	-30 14.2	1.455	2.299	17.4	20.1
5 21	18 10.10	-21 57.4	1.171	2.098	14.9	17.4	5 21	18 10.68	-30 36.6	1.359	2.276	14.0	19.8
5 31	18 3.53	-22 14.9	1.110	2.088	10.1	17.1	5 31	18 3.97	-30 54.3	1.282	2.253	9.9	19.5
6 10	17 54.21	-22 34.3	1.070	2.078	4.6	16.7	6 10	17 54.47	-31 3.3	1.228	2.231	5.5	19.2
6 20	17 43.35	-22 53.5	1.053	2.069	1.3	16.5	6 20	17 43.32	-30 59.8	1.197	2.208	3.7	19.1
6 30	17 32.62	-23 10.8	1.060	2.060	7.2	16.8	6 30	17 32.13	-30 42.8	1.191	2.186	7.5	19.2
7 10	17 23.67	-23 26.5	1.089	2.051	12.7	17.1	7 10	17 22.59	-30 14.6	1.208	2.164	12.3	19.4
7 20	17 17.73	-23 41.5	1.138	2.043	17.5	17.3	7 20	17 15.96	-29 40.0	1.246	2.143	16.8	19.6
164255	2004 <i>TW</i> ₂₆₁		6 17.8 314°60	2°4/17.7 17			326914	2003 <i>XE</i> ₁₈		6 17.8 123°32	3°8/18.1 14 C		
5 11	18 12.96	-26 8.9	1.220	2.080	19.1	20.0	5 11	18 22.11	-33 37.6	2.089	2.892	14.3	22.9
5 21	18 10.23	-26 44.7	1.139	2.066	15.2	19.7	5 21	18 15.40	-34 5.0	2.023	2.913	11.4	22.8
5 31	18 3.82	-27 21.5	1.076	2.053	10.4	19.4	5 31	18 6.11	-34 25.1	1.979	2.934	8.1	22.6
6 10	17 54.42	-27 55.0	1.033	2.040	5.2	19.0	6 10	17 55.04	-34 34.3	1.961	2.954	5.0	22.4
6 20	17 43.28	-28 21.0	1.014	2.027	2.8	18.9	6 20	17 43.25	-34 30.3	1.970	2.973	3.9	22.4
6 30	17 32.19	-28 36.7	1.017	2.015	7.7	19.1	6 30	17 31.97	-34 13.4	2.008	2.991	6.0	22.6
7 10	17 22.99	-28 42.8	1.043	2.004	13.1	19.4	7 10	17 22.27	-33 46.2	2.072	3.009	9.1	22.8
7 20	17 17.00	-28 42.4	1.088	1.993	18.0	19.6	7 20	17 14.92	-33 12.9	2.161	3.025	12.0	23.0
149224	2002 <i>RK</i> ₇₈		6 17.8 231°93	0°2/17.8 18			220308	2003 <i>EK</i> ₃₂		6 17.8 104°49	1°0/17.9 17		
5 11	18 15.89	-22 53.9	1.929	2.754	14.5	21.6	5 11	18 16.17	-26 24.2	1.783	2.612	15.4	20.8
5 21	18 10.93	-22 53.1	1.834	2.743	11.4	21.4	5 21	18 11.10	-26 25.3	1.713	2.624	12.0	20.6
5 31	18 3.42	-22 52.1	1.760	2.731	7.7	21.2	5 31	18 3.41	-26 23.5	1.664	2.635	8.0	20.4
6 10	17 53.96	-22 49.9	1.712	2.719	3.5	20.9	6 10	17 53.89	-26 17.0	1.640	2.646	3.7	20.1
6 20	17 43.47	-22 45.7	1.690	2.706	1.0	20.7	6 20	17 43.57	-26 4.9	1.642	2.657	1.4	20.0
6 30	17 33.07	-22 39.6	1.696	2.692	5.5	20.9	6 30	17 33.68	-25 47.9	1.672	2.668	5.5	20.3
7 10	17 23.91	-22 32.6	1.729	2.678	9.7	21.2	7 10	17 25.33	-25 28.0	1.727	2.678	9.5	20.6
7 20	17 16.86	-22 26.4	1.784	2.664	13.4	21.4	7 20	17 19.27	-25 7.8	1.805	2.689	13.1	20.8
291811	2006 <i>KK</i> ₉₄		6 17.8 245°23	2°4/17.7 18		</							

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
147812	2005 <i>SM</i> ₁₀₃		6 17.8 262°03	0°4/17.8 18			497150	2004 <i>RF</i> ₁₄₀		6 17.8 220°43	6°3/17.2 18		
5 11	18 10.89	-22 20.2	2.409	3.230	12.1	20.9	5 11	18 12.15	-6 37.6	2.205	3.003	13.8	22.1
5 21	18 6.53	-22 17.2	2.311	3.219	9.4	20.7	5 21	18 7.49	-5 52.3	2.115	2.995	11.4	21.9
5 31	18 0.22	-22 14.3	2.236	3.207	6.3	20.5	5 31	18 0.85	-5 15.5	2.048	2.986	8.9	21.7
6 10	17 52.47	-22 10.9	2.188	3.194	2.9	20.2	6 10	17 52.76	-4 50.3	2.005	2.977	6.9	21.6
6 20	17 43.98	-22 6.8	2.167	3.182	0.9	20.0	6 20	17 43.93	-4 38.7	1.988	2.968	6.4	21.5
6 30	17 35.58	-22 1.9	2.174	3.170	4.5	20.3	6 30	17 35.20	-4 41.9	1.998	2.958	7.9	21.6
7 10	17 28.11	-21 57.2	2.208	3.157	7.9	20.5	7 10	17 27.44	-4 59.5	2.034	2.947	10.5	21.8
7 20	17 22.22	-21 53.4	2.267	3.144	11.0	20.7	7 20	17 21.29	-5 29.8	2.092	2.936	13.1	21.9
480007	2014 <i>LP</i> ₁₁		6 17.8 149°11	3°1/17.4 16			135126	2001 <i>QX</i> ₁₅₈		6 17.8 286°42	1°1/17.7 18	R	
5 11	18 9.68	-15 5.2	2.448	3.264	12.1	21.7	5 11	18 11.22	-20 39.5	2.044	2.874	13.7	19.8
5 21	18 5.34	-14 33.9	2.365	3.266	9.5	21.6	5 21	18 7.07	-20 32.9	1.956	2.867	10.7	19.6
5 31	17 59.26	-14 5.8	2.306	3.268	6.7	21.4	5 31	18 0.72	-20 27.6	1.889	2.860	7.2	19.4
6 10	17 51.98	-13 42.4	2.272	3.270	4.0	21.2	6 10	17 52.74	-20 23.5	1.847	2.853	3.4	19.1
6 20	17 44.14	-13 24.5	2.266	3.271	3.2	21.2	6 20	17 43.94	-20 20.2	1.832	2.847	1.4	19.0
6 30	17 36.49	-13 13.2	2.288	3.273	5.3	21.3	6 30	17 35.29	-20 18.0	1.844	2.840	5.1	19.2
7 10	17 29.76	-13 8.9	2.337	3.274	8.2	21.5	7 10	17 27.75	-20 17.7	1.882	2.833	8.9	19.4
7 20	17 24.49	-13 11.3	2.410	3.276	10.9	21.7	7 20	17 22.04	-20 19.7	1.944	2.826	12.3	19.6
399444	2002 <i>EO</i> ₁₅₈		6 17.8 68°65	5°1/17.7 16			432996	2012 <i>QW</i> ₁₂		6 17.8 303°92	0°1/17.8 17		
5 11	18 9.07	-8 37.4	2.289	3.097	13.1	21.7	5 11	18 12.90	-24 53.0	1.672	2.512	15.7	20.9
5 21	18 4.96	-8 10.6	2.212	3.100	10.6	21.6	5 21	18 8.95	-24 31.0	1.584	2.501	12.4	20.6
5 31	17 59.06	-7 52.1	2.156	3.104	8.0	21.4	5 31	18 2.26	-24 5.4	1.517	2.491	8.3	20.4
6 10	17 51.90	-7 43.8	2.126	3.108	5.7	21.3	6 10	17 53.51	-23 35.8	1.473	2.480	3.8	20.1
6 20	17 44.16	-7 46.7	2.122	3.112	5.1	21.2	6 20	17 43.72	-23 2.5	1.455	2.470	1.1	19.8
6 30	17 36.61	-8 1.0	2.145	3.116	6.7	21.3	6 30	17 34.15	-22 27.2	1.462	2.460	5.9	20.1
7 10	17 30.00	-8 25.9	2.193	3.119	9.2	21.5	7 10	17 26.01	-21 52.7	1.495	2.451	10.4	20.4
7 20	17 24.89	-8 59.8	2.265	3.123	11.7	21.7	7 20	17 20.20	-21 21.7	1.550	2.441	14.4	20.6
32914	1995 <i>AG</i> ₁		6 17.8 118°25	3°4/18.1 18			99535	2002 <i>EM</i> ₉₁		6 17.8 83°24	0°1/17.8 18		
5 11	18 19.02	-30 59.8	1.514	2.347	17.4	17.9	5 11	18 17.96	-22 50.2	1.431	2.271	17.9	19.5
5 21	18 14.00	-31 18.9	1.444	2.354	13.8	17.6	5 21	18 12.94	-23 3.7	1.372	2.290	13.9	19.3
5 31	18 5.71	-31 31.6	1.394	2.361	9.6	17.4	5 31	18 4.85	-23 18.2	1.334	2.308	9.2	19.1
6 10	17 55.04	-31 33.8	1.367	2.368	5.4	17.2	6 10	17 54.60	-23 31.6	1.318	2.326	4.1	18.8
6 20	17 43.28	-31 23.0	1.365	2.375	3.6	17.1	6 20	17 43.45	-23 42.0	1.328	2.344	1.2	18.6
6 30	17 32.01	-30 59.5	1.389	2.382	6.9	17.3	6 30	17 32.87	-23 49.1	1.364	2.362	6.2	19.0
7 10	17 22.67	-30 26.8	1.437	2.388	11.1	17.6	7 10	17 24.17	-23 53.7	1.424	2.379	10.8	19.3
7 20	17 16.20	-29 49.8	1.507	2.394	15.0	17.8	7 20	17 18.19	-23 57.5	1.506	2.396	14.8	19.6
243773	2000 <i>RJ</i> ₉₁		6 17.8 311°64	2°9/18.2 17			235881	2005 <i>CL</i> ₂		6 17.8 205°90	2°2/17.9 18		
5 11	18 12.97	-30 21.7	1.236	2.093	19.1	20.1	5 11	18 14.73	-29 9.5	2.130	2.949	13.5	21.0
5 21	18 10.34	-30 18.2	1.146	2.071	15.3	19.8	5 21	18 9.84	-29 26.4	2.043	2.947	10.6	20.8
5 31	18 3.96	-30 6.0	1.075	2.050	10.7	19.5	5 31	18 2.58	-29 39.6	1.978	2.944	7.3	20.6
6 10	17 54.53	-29 41.5	1.024	2.029	5.7	19.1	6 10	17 53.59	-29 46.8	1.939	2.941	3.9	20.3
6 20	17 43.36	-29 2.6	0.995	2.009	3.1	18.9	6 20	17 43.73	-29 46.2	1.926	2.938	2.4	20.2
6 30	17 32.27	-28 10.3	0.990	1.989	7.8	19.1	6 30	17 34.06	-29 37.6	1.942	2.934	5.3	20.4
7 10	17 23.13	-27 9.9	1.007	1.970	13.3	19.4	7 10	17 25.62	-29 22.4	1.983	2.930	8.8	20.6
7 20	17 17.27	-26 8.3	1.043	1.951	18.3	19.6	7 20	17 19.18	-29 3.2	2.049	2.926	12.0	20.8
279650	2011 <i>FT</i> ₁		6 17.8 47°95	8°3/17.7 17			405761	2005 <i>YD</i> ₁₅₂		6 17.8 131°69	3°8/18.2 17		
5 11	18 10.89	-5 2.8	1.599	2.417	17.3	20.4	5 11	18 21.65	-32 20.3	1.581	2.405	17.2	21.4
5 21	18 7.00	-4 8.6	1.537	2.426	14.4	20.3	5 21	18 15.89	-32 36.7	1.512	2.416	13.7	21.2
5 31	18 0.70	-3 28.3	1.495	2.435	11.4	20.1	5 31	18 6.89	-32 45.1	1.463	2.427	9.6	21.0
6 10	17 52.70	-3 6.0	1.474	2.445	9.0	20.0	6 10	17 55.55	-32 41.5	1.438	2.437	5.5	20.8
6 20	17 43.95	-3 4.1	1.477	2.455	8.4	20.0	6 20	17 43.20	-32 23.5	1.438	2.446	3.9	20.7
6 30	17 35.55	-3 23.3	1.504	2.465	9.9	20.1	6 30	17 31.41	-31 51.8	1.465	2.455	6.9	20.9
7 10	17 28.52	-4 1.2	1.554	2.475	12.6	20.3	7 10	17 21.60	-31 10.6	1.516	2.464	10.9	21.1
7 20	17 23.59	-4 54.2	1.625	2.486	15.5	20.5	7 20	17 14.68	-30 25.1	1.590	2.472	14.6	21.4
441372	2008 <i>EJ</i> ₂₅		6 17.8 139°29	3°5/18.2 17			284628	2007 <i>VL</i> ₁₇₆		6 17.8 228°36	2°1/17.9 16		
5 11	18 14.24	-34 26.5	2.395	3.202	12.6	20.9	5 11	18 14.07	-28 34.7	2.134	2.955	13.4	21.9
5 21	18 9.21	-34 41.2	2.313	3.206	10.0	20.7	5 21	18 9.36	-28 56.6	2.046	2.951	10.6	21.7
5 31	18 1.99	-34 48.9	2.253	3.209	7.2	20.5	5 31	18 2.29	-29 15.6	1.979	2.946	7.3	21.5
6 10	17 53.24	-34 47.0	2.219	3.212	4.6	20.4	6 10	17 53.47	-29 29.3	1.938	2.941	3.8	21.2
6 20	17 43.79	-34 34.0	2.212	3.215	3.6	20.3	6 20	17 43.76	-29 35.8	1.924	2.936	2.3	21.1
6 30	17 34.62	-34 10.2	2.233	3.218	5.4	20.4	6 30	17 34.21	-29 34.4	1.938	2.931	5.3	21.3
7 10	17 26.66	-33 37.9	2.281	3.220	8.2	20.6	7 10	17 25.84	-29 26.4	1.978	2.925	8.8	21.5
7 20	17 20.57	-33 0.0	2.353	3.223	10.9	20.8	7 20	17 19.44	-29 13.9	2.042	2.920	12.0	21.7
262188	2006 <i>SQ</i> ₁₄₄		6 17.8 107°05	1°1/17.9 17			178554	1999 <i>VT</i> ₁₀₅		6 17.8 125°21	1°0/17.8 17		
5 11	18 17.17	-26 2.6	1.669	2.501	16.1	21.7	5 11	18 18.00	-24 55.2	1.814	2.639	15.3	21.0
5 21	18 12.06	-26 10.6	1.601	2.513	12.6	21.5	5 21	18 12.51	-25 15.1	1.744	2.652	11.9	20.8
5 31	18 4.15	-26 16.3	1.553	2.525	8.4	21.2	5 31	18 4.38	-25 34.2	1.695	2.665	8.0	20.6
6 10	17 54.27	-26 17.4	1.530	2.536	3.9	21.0	6 10	17 54.38	-25 50.3	1.671	2.678	3.7	20.4
6 20	17 43.51	-26 12.8	1.533	2.548	1.5	20.9	6 20	17 43.53	-26 1.4	1.675	2.689	1.4	20.3
6 30	17 33.20	-26 2.5	1.562	2.559	5.8	21.2	6 30	17 33.05	-26 6.8	1.705	2.701	5.5	20.6
7 10	17 24.53	-25 48.5	1.617	2.569	10.0	21.4	7 10	17 24.08	-26 7.8	1.762	2.712	9.5	20.8
7 20	17 18.32	-25 33.5	1.694	2.580	13.7	21.7	7 20	17 17.42	-26 6.2	1.842	2.722	13.0	21.1
315850	2008 <i>HA</i> ₂₆		6 17.8 221°71	1°7/17.8 18			433951	1997 <i>HM</i> ₁₂					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
110598	2001 <i>TC</i> ₁₃₃		6 17.8 163°11	0°7/17.9	18		168877	2000 <i>WC</i> ₂₇		6 17.8 186°20	1°9/17.8	17	
5 11	18 16.25	-27 25.1	1.755	2.585	15.5	19.2	5 11	18 18.57	-27 0.9	1.840	2.662	15.2	20.9
5 21	18 11.29	-26 59.6	1.675	2.586	12.2	19.0	5 21	18 13.19	-27 27.5	1.756	2.663	12.0	20.7
5 31	18 3.63	-26 28.3	1.616	2.588	8.2	18.8	5 31	18 5.02	-27 52.5	1.694	2.662	8.1	20.4
6 10	17 54.06	-25 50.3	1.582	2.588	3.8	18.5	6 10	17 54.77	-28 12.8	1.657	2.661	4.0	20.2
6 20	17 43.62	-25 6.2	1.574	2.589	1.2	18.3	6 20	17 43.44	-28 25.8	1.646	2.659	2.2	20.1
6 30	17 33.58	-24 18.1	1.593	2.590	5.6	18.6	6 30	17 32.32	-28 30.3	1.663	2.657	5.8	20.3
7 10	17 25.08	-23 29.6	1.638	2.591	9.9	18.9	7 10	17 22.65	-28 27.7	1.706	2.654	9.9	20.5
7 20	17 18.94	-22 44.1	1.706	2.591	13.6	19.1	7 20	17 15.34	-28 20.5	1.772	2.651	13.5	20.7
396627	2001 <i>UB</i> ₁₅		6 17.8 266°35	12°0/13.9	17		33747	Clingan		6 17.8 324°86	4°2/17.9	18	
5 11	18 16.22	- 7 41.1	1.233	2.068	20.5	20.3	5 11	18 8.81	-11 39.4	1.897	2.724	14.7	18.9
5 21	18 12.16	- 5 3.1	1.156	2.054	17.4	20.1	5 21	18 5.38	-11 35.1	1.806	2.710	11.8	18.7
5 31	18 4.76	- 2 27.3	1.097	2.041	14.3	19.9	5 31	17 59.72	-11 39.8	1.736	2.697	8.5	18.4
6 10	17 54.76	- 0 5.0	1.061	2.027	12.2	19.7	6 10	17 52.38	-11 54.9	1.689	2.684	5.4	18.2
6 20	17 43.38	+ 1 52.3	1.047	2.013	12.5	19.7	6 20	17 44.11	-12 20.6	1.668	2.672	4.3	18.1
6 30	17 32.17	+ 3 15.0	1.056	1.999	15.1	19.8	6 30	17 35.90	-12 56.4	1.673	2.660	6.7	18.2
7 10	17 22.68	+ 3 59.7	1.085	1.984	18.6	19.9	7 10	17 28.73	-13 40.6	1.704	2.649	10.1	18.4
7 20	17 16.03	+ 4 8.6	1.130	1.970	22.1	20.1	7 20	17 23.38	-14 31.3	1.757	2.638	13.5	18.6
396050	2013 <i>CA</i> ₄₁		6 17.8 31°93	3°0/17.8	16		99481	2002 <i>CY</i> ₁₅₇		6 17.8 108°39	0°4/17.8	17	
5 11	18 9.62	-14 50.6	2.058	2.884	13.7	21.0	5 11	18 17.17	-21 42.1	1.508	2.345	17.3	20.7
5 21	18 5.65	-14 40.1	1.982	2.888	10.8	20.8	5 21	18 12.32	-21 52.8	1.440	2.356	13.4	20.4
5 31	17 59.65	-14 35.2	1.928	2.893	7.5	20.6	5 31	18 4.50	-22 5.6	1.393	2.366	9.0	20.2
6 10	17 52.23	-14 36.5	1.899	2.899	4.3	20.4	6 10	17 54.51	-22 18.8	1.368	2.376	4.0	19.9
6 20	17 44.13	-14 44.2	1.896	2.904	3.2	20.3	6 20	17 43.54	-22 30.9	1.370	2.385	1.2	19.7
6 30	17 36.26	-14 58.3	1.921	2.910	5.7	20.5	6 30	17 32.98	-22 41.1	1.397	2.395	6.2	20.1
7 10	17 29.47	-15 18.1	1.971	2.916	8.9	20.7	7 10	17 24.13	-22 50.0	1.449	2.404	10.8	20.4
7 20	17 24.39	-15 43.0	2.044	2.922	12.0	20.9	7 20	17 17.88	-22 58.8	1.524	2.413	14.7	20.7
360936	2005 <i>TZ</i> ₁₆₁		6 17.8 177°09	0°2/17.8	18		328262	2008 <i>GX</i> ₁₃		6 17.8 105°97	0°4/17.8	14	C
5 11	18 11.04	-22 56.5	2.697	3.513	11.1	22.4	5 11	18 16.92	-23 48.8	1.698	2.529	15.9	22.2
5 21	18 6.33	-22 51.4	2.610	3.514	8.6	22.2	5 21	18 11.80	-24 0.2	1.631	2.543	12.4	22.0
5 31	17 59.91	-22 45.9	2.546	3.515	5.7	22.0	5 31	18 3.97	-24 11.6	1.584	2.556	8.2	21.8
6 10	17 52.30	-22 39.4	2.509	3.515	2.6	21.8	6 10	17 54.22	-24 20.9	1.562	2.569	3.7	21.6
6 20	17 44.11	-22 31.8	2.500	3.516	0.8	21.7	6 20	17 43.63	-24 26.7	1.566	2.582	1.1	21.4
6 30	17 36.11	-22 23.3	2.520	3.516	4.0	21.9	6 30	17 33.46	-24 28.8	1.597	2.594	5.6	21.7
7 10	17 28.98	-22 14.6	2.568	3.515	7.1	22.1	7 10	17 24.85	-24 28.1	1.654	2.606	9.8	22.0
7 20	17 23.29	-22 6.9	2.641	3.515	9.8	22.3	7 20	17 18.62	-24 26.6	1.733	2.618	13.5	22.3
113455	2002 <i>SR</i> ₄₈		6 17.8 289°36	1°3/17.8	18		320568	2008 <i>AT</i> ₉₁		6 17.8 71°00	0°2/17.8	17	
5 11	18 13.36	-20 25.2	1.554	2.396	16.6	20.6	5 11	18 15.41	-21 35.8	1.482	2.324	17.3	20.5
5 21	18 9.73	-20 23.9	1.455	2.373	13.2	20.4	5 21	18 11.04	-21 55.7	1.415	2.333	13.5	20.3
5 31	18 3.10	-20 25.5	1.376	2.350	9.0	20.1	5 31	18 3.69	-22 18.6	1.367	2.342	9.0	20.0
6 10	17 54.06	-20 29.3	1.320	2.327	4.2	19.7	6 10	17 54.18	-22 42.4	1.344	2.351	4.0	19.8
6 20	17 43.57	-20 34.7	1.289	2.304	1.7	19.5	6 20	17 43.64	-23 4.9	1.345	2.360	1.1	19.6
6 30	17 32.99	-20 41.3	1.283	2.281	6.6	19.7	6 30	17 33.47	-23 24.9	1.372	2.370	6.2	19.9
7 10	17 23.75	-20 49.6	1.301	2.257	11.6	19.9	7 10	17 24.99	-23 42.4	1.423	2.379	10.8	20.2
7 20	17 16.97	-21 0.3	1.341	2.234	16.1	20.2	7 20	17 19.10	-23 58.3	1.496	2.388	14.8	20.5
68741	2002 <i>EM</i> ₄₀		6 17.8 15°77	5°8/17.3	17		255626	2006 <i>PZ</i> ₂₉		6 17.8 320°40	0°5/17.8	18	
5 11	18 7.93	- 9 54.8	1.908	2.732	14.7	18.3	5 11	18 9.57	-23 2.5	1.194	2.060	19.0	20.3
5 21	18 4.43	- 9 5.2	1.837	2.736	11.9	18.1	5 21	18 7.67	-23 21.2	1.105	2.037	15.1	20.0
5 31	17 58.87	- 8 23.5	1.787	2.741	8.9	18.0	5 31	18 2.24	-23 43.0	1.034	2.014	10.3	19.7
6 10	17 51.88	- 7 52.5	1.761	2.746	6.5	17.8	6 10	17 53.86	-24 6.0	0.983	1.992	4.7	19.3
6 20	17 44.24	- 7 34.5	1.761	2.752	5.9	17.8	6 20	17 43.65	-24 27.5	0.955	1.971	1.4	19.0
6 30	17 36.87	- 7 30.7	1.786	2.758	7.7	17.9	6 30	17 33.32	-24 45.6	0.949	1.950	7.5	19.3
7 10	17 30.61	- 7 40.5	1.835	2.765	10.5	18.1	7 10	17 24.68	-25 0.1	0.965	1.931	13.3	19.5
7 20	17 26.10	- 8 2.3	1.906	2.772	13.3	18.3	7 20	17 19.13	-25 12.4	0.999	1.913	18.5	19.8
471845	2012 <i>XX</i> ₁₃₃		6 17.8 247°21	0°3/17.7	18		97379	2000 <i>AJ</i> ₆₉		6 17.8 107°69	0°8/17.9	18	
5 11	18 15.35	-24 41.2	2.480	3.291	12.1	21.6	5 11	18 15.88	-18 23.7	2.154	2.969	13.5	19.5
5 21	18 9.93	-24 8.7	2.371	3.273	9.5	21.4	5 21	18 10.41	-19 0.9	2.082	2.985	10.5	19.3
5 31	18 2.47	-23 32.2	2.286	3.253	6.4	21.1	5 31	18 2.79	-19 42.8	2.034	3.001	7.0	19.1
6 10	17 53.51	-22 51.7	2.227	3.233	2.9	20.9	6 10	17 53.65	-20 27.7	2.012	3.017	3.2	18.9
6 20	17 43.78	-22 7.9	2.197	3.213	0.9	20.7	6 20	17 43.79	-21 13.3	2.018	3.033	1.1	18.8
6 30	17 34.16	-21 22.3	2.197	3.192	4.6	20.9	6 30	17 34.19	-21 57.7	2.053	3.048	4.8	19.1
7 10	17 25.52	-20 37.3	2.225	3.170	8.1	21.1	7 10	17 25.74	-22 39.8	2.116	3.063	8.3	19.3
7 20	17 18.54	-19 55.4	2.279	3.148	11.3	21.3	7 20	17 19.13	-23 19.2	2.203	3.077	11.4	19.6
446587	2014 <i>QP</i> ₃₈		6 17.8 327°96	7°3/16.9	15		121634	1999 <i>VX</i> ₁₉₉		6 17.8 279°76	2°0/17.9	18	
5 11	18 6.64	- 0 29.0	2.624	3.402	12.4	21.5	5 11	18 11.84	-15 17.9	2.501	3.312	12.0	20.4
5 21	18 2.90	+ 0 23.4	2.544	3.399	10.6	21.4	5 21	18 7.32	-15 35.6	2.387	3.286	9.5	20.2
5 31	17 57.63	+ 1 5.1	2.486	3.396	8.9	21.2	5 31	18 0.85	-15 59.5	2.296	3.260	6.6	20.0
6 10	17 51.29	+ 1 33.0	2.452	3.393	7.6	21.1	6 10	17 52.87	-16 29.4	2.232	3.233	3.5	19.7
6 20	17 44.43	+ 1 45.1	2.443	3.390	7.4	21.1	6 20	17 43.99	-17 4.4	2.195	3.207	2.2	19.6
6 30	17 37.70	+ 1 40.5	2.460	3.387	8.3	21.2	6 30	17 35.00	-17 43.5	2.188	3.179	4.9	19.7
7 10	17 31.73	+ 1 19.9	2.500	3.384	9.9	21.3	7 10	17 26.75	-18 25.4	2.208	3.152	8.2	19.9
7 20	17 27.02	+ 0 45.3	2.564	3.381	11.8	21.4	7 20	17 19.94	-19 9.3	2.253	3.124	11.3	20.0
414065	2007 <i>SO</i> ₁₉		6 17.8 106°89	1°4/17.8	17		216929	1998 <					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
136729	1995 <i>UR</i> ₅₇		6 17.8 251°21	1°9/17.6	18		145930	1999 <i>WK</i> ₁₂		6 17.8 261°76	0°4/17.8	18	
5 11	18 10.89	-18 8.5	2.478	3.295	11.9	21.2	5 11	18 15.88	-22 12.4	1.784	2.613	15.3	21.1
5 21	18 6.45	-17 51.9	2.378	3.281	9.4	21.0	5 21	18 11.33	-22 16.4	1.682	2.593	12.1	20.8
5 31	18 0.15	-17 37.2	2.301	3.268	6.4	20.8	5 31	18 3.99	-22 21.4	1.600	2.572	8.2	20.5
6 10	17 52.49	-17 24.7	2.251	3.254	3.3	20.5	6 10	17 54.43	-22 26.5	1.543	2.550	3.8	20.2
6 20	17 44.12	-17 14.9	2.228	3.239	2.1	20.4	6 20	17 43.57	-22 30.2	1.513	2.528	1.1	20.0
6 30	17 35.83	-17 8.4	2.233	3.225	4.8	20.6	6 30	17 32.65	-22 32.3	1.509	2.505	5.9	20.3
7 10	17 28.40	-17 5.7	2.266	3.210	8.0	20.8	7 10	17 22.97	-22 33.4	1.531	2.482	10.5	20.5
7 20	17 22.46	-17 7.2	2.323	3.195	11.0	20.9	7 20	17 15.54	-22 35.0	1.575	2.459	14.6	20.7
287819	2003 <i>SN</i> ₁₉₀		6 17.8 227°19	0°6/17.9	17		224221	2005 <i>SL</i> ₅₂		6 17.8 321°36	0°4/17.8	17	
5 11	18 17.06	-25 3.4	1.788	2.615	15.4	21.9	5 11	18 9.98	-22 56.0	1.315	2.175	18.0	20.6
5 21	18 12.10	-25 3.3	1.696	2.606	12.1	21.7	5 21	18 7.56	-22 51.7	1.227	2.155	14.3	20.3
5 31	18 4.36	-25 1.3	1.626	2.597	8.2	21.4	5 31	18 1.88	-22 47.4	1.157	2.136	9.7	20.0
6 10	17 54.51	-24 55.9	1.581	2.587	3.7	21.1	6 10	17 53.59	-22 42.5	1.109	2.117	4.4	19.6
6 20	17 43.55	-24 45.8	1.561	2.577	1.2	20.9	6 20	17 43.80	-22 36.0	1.084	2.099	1.3	19.4
6 30	17 32.74	-24 31.4	1.569	2.566	5.8	21.2	6 30	17 34.04	-22 28.4	1.082	2.082	7.0	19.7
7 10	17 23.33	-24 14.3	1.603	2.554	10.2	21.4	7 10	17 25.90	-22 21.1	1.103	2.066	12.4	19.9
7 20	17 16.25	-23 57.1	1.660	2.542	14.1	21.6	7 20	17 20.54	-22 16.0	1.143	2.051	17.2	20.2
138050	2000 <i>DJ</i> ₃₄		6 17.8 192°55	0°5/17.8	17		101895	1999 <i>PE</i> ₃		6 17.8 191°55	0°5/17.8	18	
5 11	18 16.08	-22 14.1	1.975	2.798	14.3	21.4	5 11	18 16.55	-22 24.6	1.797	2.625	15.3	20.1
5 21	18 10.92	-22 10.9	1.889	2.796	11.2	21.2	5 21	18 11.52	-22 20.2	1.714	2.624	12.0	19.9
5 31	18 3.33	-22 7.9	1.824	2.794	7.5	21.0	5 31	18 3.85	-22 16.0	1.652	2.623	8.0	19.6
6 10	17 53.96	-22 4.2	1.785	2.792	3.4	20.7	6 10	17 54.24	-22 11.0	1.614	2.621	3.6	19.4
6 20	17 43.71	-21 59.4	1.774	2.789	1.1	20.5	6 20	17 43.66	-22 4.6	1.603	2.619	1.1	19.2
6 30	17 33.67	-21 53.5	1.790	2.785	5.3	20.8	6 30	17 33.32	-21 57.1	1.620	2.616	5.6	19.5
7 10	17 24.88	-21 47.7	1.832	2.781	9.3	21.1	7 10	17 24.37	-21 49.7	1.662	2.612	9.9	19.7
7 20	17 18.14	-21 43.2	1.898	2.776	12.8	21.3	7 20	17 17.66	-21 43.9	1.727	2.609	13.7	20.0
26052	3230 <i>T</i> -2		6 17.8 191°62	0°4/17.8	18		257067	2008 <i>FV</i> ₁₁₀		6 17.8 132°95	8°8/17.3	18	
5 11	18 9.95	-21 38.1	2.637	3.456	11.2	19.7	5 11	18 23.75	-50 39.4	2.701	3.438	13.0	21.1
5 21	18 5.58	-21 42.4	2.549	3.455	8.7	19.5	5 21	18 17.39	-52 8.2	2.632	3.446	11.5	21.0
5 31	17 59.47	-21 47.4	2.485	3.455	5.8	19.3	5 31	18 7.98	-53 24.6	2.585	3.454	10.0	20.9
6 10	17 52.15	-21 52.7	2.447	3.454	2.6	19.1	6 10	17 56.19	-54 22.3	2.561	3.462	9.0	20.8
6 20	17 44.23	-21 57.6	2.438	3.453	0.9	19.0	6 20	17 43.10	-54 56.6	2.562	3.469	8.8	20.8
6 30	17 36.45	-22 2.2	2.457	3.452	4.1	19.2	6 30	17 30.11	-55 6.0	2.588	3.476	9.5	20.9
7 10	17 29.53	-22 6.7	2.503	3.451	7.2	19.4	7 10	17 18.63	-54 52.6	2.638	3.483	10.7	21.0
7 20	17 24.04	-22 11.6	2.575	3.450	9.9	19.6	7 20	17 9.72	-54 21.0	2.709	3.490	12.1	21.1
241923	2002 <i>BM</i> ₂₃		6 17.8 104°26	2°6/17.8	17		100446	1996 <i>RC</i> ₄		6 17.8 188°90	22°6/13.9	18	
5 11	18 19.53	-28 51.4	2.100	2.911	14.0	21.3	5 11	18 21.97	+21 57.7	1.405	2.089	25.1	20.4
5 21	18 13.37	-29 34.9	2.037	2.936	10.9	21.2	5 21	18 16.37	+24 40.1	1.358	2.090	24.0	20.3
5 31	18 4.80	-30 15.2	1.997	2.961	7.5	21.0	5 31	18 7.44	+26 49.1	1.324	2.089	23.1	20.2
6 10	17 54.55	-30 49.0	1.984	2.984	4.1	20.8	6 10	17 55.96	+28 12.6	1.305	2.087	22.6	20.2
6 20	17 43.58	-31 13.4	1.998	3.007	2.8	20.8	6 20	17 43.18	+28 42.0	1.299	2.083	22.7	20.1
6 30	17 33.00	-31 27.5	2.040	3.030	5.4	21.0	6 30	17 30.67	+28 14.3	1.308	2.078	23.3	20.2
7 10	17 23.85	-31 32.6	2.110	3.051	8.7	21.2	7 10	17 19.95	+26 54.0	1.331	2.071	24.3	20.2
7 20	17 16.84	-31 30.9	2.204	3.072	11.6	21.5	7 20	17 12.08	+24 50.4	1.366	2.062	25.5	20.3
338716	2003 <i>UC</i> ₇₇		6 17.8 191°10	3°1/18.2	18		199997	2007 <i>JB</i> ₃₆		6 17.8 322°75	7°8/20.5	18	
5 11	18 16.15	-32 51.9	2.289	3.098	13.0	20.8	5 11	18 18.85	+1 2.4	1.539	2.325	19.3	18.8
5 21	18 10.82	-33 4.0	2.202	3.097	10.4	20.6	5 21	18 13.97	+0 3.9	1.439	2.307	16.5	18.6
5 31	18 3.18	-33 9.7	2.137	3.096	7.4	20.4	5 31	18 5.99	-1 25.6	1.358	2.290	13.0	18.3
6 10	17 53.86	-33 6.4	2.097	3.094	4.4	20.2	6 10	17 55.45	-3 28.9	1.300	2.273	9.6	18.1
6 20	17 43.76	-32 52.5	2.085	3.092	3.2	20.2	6 20	17 43.28	-6 4.3	1.267	2.257	7.8	17.9
6 30	17 33.90	-32 28.3	2.101	3.089	5.4	20.3	6 30	17 30.84	-9 4.3	1.263	2.242	9.4	18.0
7 10	17 25.29	-31 55.9	2.144	3.086	8.5	20.5	7 10	17 19.62	-12 17.3	1.287	2.227	13.1	18.2
7 20	17 18.66	-31 18.7	2.211	3.083	11.5	20.7	7 20	17 10.84	-15 31.6	1.336	2.214	17.2	18.4
490149	2008 <i>UM</i> ₁₆₅		6 17.8 168°83	0°8/17.8	17		353131	2009 <i>FX</i> ₆₁		6 17.8 5°89	4°9/17.9	16	
5 11	18 13.77	-21 6.5	2.554	3.367	11.8	22.7	5 11	18 13.14	-34 13.4	1.813	2.640	15.2	20.4
5 21	18 8.50	-21 0.7	2.469	3.371	9.1	22.5	5 21	18 9.22	-34 57.9	1.737	2.640	12.3	20.2
5 31	18 1.39	-20 55.3	2.408	3.375	6.1	22.3	5 31	18 2.50	-35 35.9	1.682	2.641	9.0	20.0
6 10	17 53.00	-20 50.1	2.373	3.379	2.8	22.1	6 10	17 53.68	-36 3.0	1.651	2.643	6.0	19.9
6 20	17 44.01	-20 44.9	2.367	3.381	1.1	22.0	6 20	17 43.83	-36 15.7	1.644	2.644	5.0	19.8
6 30	17 35.22	-20 39.9	2.390	3.384	4.3	22.2	6 30	17 34.23	-36 12.9	1.664	2.647	7.1	19.9
7 10	17 27.39	-20 35.7	2.440	3.385	7.5	22.4	7 10	17 26.15	-35 56.8	1.708	2.650	10.3	20.1
7 20	17 21.10	-20 33.2	2.516	3.386	10.3	22.6	7 20	17 20.46	-35 31.1	1.774	2.653	13.5	20.3
477686	2010 <i>RU</i> ₄₉		6 17.8 231°65	5°0/18.0	18		182939	2002 <i>GZ</i> ₅₀		6 17.8 46°10	2°8/17.7	18	
5 11	18 14.96	-38 44.5	2.625	3.417	12.0	21.7	5 11	18 9.57	-15 51.5	2.188	3.012	13.1	20.3
5 21	18 9.89	-39 23.9	2.534	3.411	9.9	21.5	5 21	18 5.49	-15 32.0	2.113	3.019	10.3	20.1
5 31	18 2.59	-39 55.7	2.466	3.405	7.6	21.4	5 31	17 59.50	-15 16.6	2.060	3.025	7.1	19.9
6 10	17 53.63	-40 16.3	2.423	3.398	5.6	21.2	6 10	17 52.19	-15 5.9	2.032	3.032	4.0	19.7
6 20	17 43.82	-40 23.1	2.407	3.391	5.1	21.2	6 20	17 44.27	-15 0.7	2.031	3.039	2.9	19.7
6 30	17 34.14	-40 15.3	2.418	3.384	6.3	21.3	6 30	17 36.59	-15 1.4	2.057	3.046	5.4	19.8
7 10	17 25.58	-39 54.5	2.456	3.377	8.5	21.4	7 10	17 29.93	-15 7.9	2.109	3.053	8.5	20.0
7 20	17 18.86	-39 23.7	2.518	3.370	10.9	21.5	7 20	17 24.90	-15 20.0	2.185	3.061	11.5	20.2
245554	2005 <i>UL</i> ₁₆		6 17.8 20°31	10°9/15.7	18		68914	2002 <i>JR</i>					

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
350855	2002 LZ ₄₃		6 17.8 303°47	2°1/17.3	18		114200	2002 VH ₉₈		6 17.8 206°60	1°3/17.7	18	
5 11	18 13.35	-21 59.8	1.787	2.621	15.1	19.6	5 11	18 15.87	-20 43.9	2.269	3.083	13.0	20.5
5 21	18 9.37	-21 6.6	1.673	2.586	12.0	19.3	5 21	18 10.45	-20 25.9	2.174	3.077	10.2	20.3
5 31	18 2.69	-20 8.2	1.579	2.551	8.2	19.0	5 31	18 2.89	-20 7.9	2.102	3.070	6.9	20.1
6 10	17 53.86	-19 5.6	1.510	2.516	4.1	18.7	6 10	17 53.77	-19 49.9	2.057	3.062	3.3	19.8
6 20	17 43.76	-18 0.9	1.468	2.481	2.5	18.5	6 20	17 43.87	-19 32.3	2.039	3.053	1.6	19.7
6 30	17 33.57	-16 57.6	1.452	2.445	6.6	18.7	6 30	17 34.11	-19 15.8	2.051	3.044	5.0	19.9
7 10	17 24.54	-15 59.7	1.461	2.410	11.2	18.8	7 10	17 25.42	-19 1.5	2.090	3.034	8.6	20.1
7 20	17 17.67	-15 10.7	1.493	2.375	15.4	19.0	7 20	17 18.50	-18 50.7	2.153	3.023	11.8	20.3
22421	Jamesedgar		6 17.8 277°10	2°2/17.7	18		175581	2006 TR ₉₃		6 17.8 188°90	0°3/17.8	17	
5 11	18 12.26	-18 25.0	1.896	2.726	14.5	19.5	5 11	18 11.88	-22 58.4	2.342	3.163	12.4	21.2
5 21	18 8.17	-18 9.4	1.799	2.710	11.5	19.2	5 21	18 7.29	-22 51.8	2.256	3.163	9.6	21.0
5 31	18 1.65	-17 56.4	1.724	2.693	7.9	19.0	5 31	18 0.74	-22 44.7	2.193	3.163	6.4	20.8
6 10	17 53.30	-17 46.3	1.672	2.677	4.0	18.7	6 10	17 52.78	-22 36.5	2.155	3.162	2.9	20.6
6 20	17 43.94	-17 39.6	1.648	2.660	2.4	18.6	6 20	17 44.16	-22 27.1	2.146	3.161	0.9	20.4
6 30	17 34.62	-17 36.9	1.650	2.643	5.9	18.8	6 30	17 35.73	-22 16.7	2.164	3.160	4.5	20.7
7 10	17 26.43	-17 38.7	1.677	2.626	9.9	19.0	7 10	17 28.32	-22 6.5	2.210	3.159	7.9	20.9
7 20	17 20.21	-17 45.4	1.727	2.609	13.7	19.2	7 20	17 22.56	-21 57.5	2.280	3.158	10.9	21.1
65351	2002 ND ₃₇		6 17.8 219°23	4°7/17.6	18		106229	2000 UM ₄₀		6 17.8 135°45	1°2/17.8	18	
5 11	18 14.71	-11 30.7	2.023	2.834	14.5	20.7	5 11	18 11.13	-18 47.1	2.861	3.671	10.7	20.4
5 21	18 9.76	-11 3.7	1.931	2.825	11.7	20.5	5 21	18 6.23	-18 45.7	2.783	3.683	8.3	20.2
5 31	18 2.55	-10 43.6	1.860	2.815	8.5	20.3	5 31	17 59.79	-18 46.4	2.728	3.694	5.6	20.1
6 10	17 53.65	-10 32.1	1.814	2.805	5.6	20.1	6 10	17 52.29	-18 48.7	2.701	3.705	2.7	19.9
6 20	17 43.85	-10 30.6	1.795	2.794	4.8	20.0	6 20	17 44.31	-18 52.7	2.703	3.716	1.4	19.8
6 30	17 34.14	-10 39.5	1.803	2.782	7.0	20.1	6 30	17 36.53	-18 58.2	2.734	3.726	3.9	20.0
7 10	17 25.51	-10 58.6	1.837	2.770	10.3	20.3	7 10	17 29.58	-19 5.3	2.792	3.736	6.7	20.2
7 20	17 18.72	-11 26.7	1.894	2.757	13.5	20.5	7 20	17 23.95	-19 14.2	2.877	3.746	9.2	20.4
511452	2014 JO ₅₈		6 17.8 46°41	7°3/17.9	17		385778	2006 AE ₇₄		6 17.8 254°25	14°2/20.4	18	
5 11	18 8.91	-2 48.0	2.102	2.898	14.5	21.1	5 11	18 34.63	-51 43.1	1.282	2.063	22.7	20.7
5 21	18 4.95	-2 12.3	2.036	2.908	12.1	21.0	5 21	18 29.14	-52 39.5	1.200	2.049	20.2	20.5
5 31	17 59.12	-1 49.6	1.990	2.918	9.7	20.9	5 31	18 17.58	-53 12.3	1.132	2.034	17.5	20.2
6 10	17 52.01	-1 42.6	1.968	2.928	7.9	20.8	6 10	18 1.01	-53 6.7	1.082	2.019	15.2	20.0
6 20	17 44.33	-1 52.8	1.971	2.939	7.3	20.7	6 20	17 41.87	-52 10.5	1.052	2.003	14.2	19.9
6 30	17 36.90	-2 20.1	1.999	2.950	8.5	20.8	6 30	17 23.63	-50 21.4	1.043	1.986	15.1	19.9
7 10	17 30.49	-3 2.5	2.052	2.961	10.6	21.0	7 10	17 9.36	-47 50.2	1.055	1.969	17.8	20.0
7 20	17 25.68	-3 57.1	2.127	2.973	12.9	21.2	7 20	17 0.60	-44 55.2	1.087	1.952	21.1	20.2
413411	2004 TR ₁₇₅		6 17.8 272°94	0°2/17.8	17		501729	2014 UD ₇₈		6 17.8 130°29	0°9/17.8	17	
5 11	18 15.74	-24 2.2	1.469	2.312	17.4	21.3	5 11	18 17.82	-21 38.0	1.809	2.634	15.4	21.9
5 21	18 11.78	-24 0.1	1.376	2.295	13.7	21.0	5 21	18 12.28	-21 28.4	1.739	2.647	11.9	21.7
5 31	18 4.58	-23 57.0	1.303	2.278	9.3	20.7	5 31	18 4.20	-21 19.2	1.690	2.660	8.0	21.5
6 10	17 54.79	-23 51.4	1.252	2.260	4.3	20.3	6 10	17 54.36	-21 9.9	1.666	2.673	3.6	21.3
6 20	17 43.51	-23 42.0	1.227	2.242	1.2	20.1	6 20	17 43.76	-21 0.2	1.669	2.684	1.3	21.1
6 30	17 32.26	-23 29.0	1.226	2.224	6.7	20.4	6 30	17 33.56	-20 50.7	1.700	2.696	5.5	21.5
7 10	17 22.59	-23 14.3	1.249	2.206	11.9	20.6	7 10	17 24.84	-20 42.6	1.757	2.706	9.6	21.7
7 20	17 15.64	-23 0.6	1.293	2.188	16.5	20.8	7 20	17 18.35	-20 37.2	1.837	2.716	13.1	22.0
280128	2002 KQ ₁₅		6 17.8 91°01	3°9/17.6	18		230854	2004 RQ ₁₀₁		6 17.8 212°14	6°1/18.3	18	
5 11	18 17.74	-30 30.1	1.881	2.702	15.0	20.4	5 11	18 20.27	-40 22.8	2.248	3.036	13.9	21.4
5 21	18 12.54	-31 33.2	1.812	2.714	11.9	20.2	5 21	18 14.47	-41 1.7	2.158	3.030	11.5	21.2
5 31	18 4.58	-32 33.5	1.765	2.727	8.4	20.0	5 31	18 5.89	-41 30.8	2.089	3.024	9.0	21.0
6 10	17 54.59	-33 25.9	1.743	2.739	5.1	19.8	6 10	17 55.22	-41 45.2	2.045	3.016	6.8	20.9
6 20	17 43.61	-34 6.2	1.747	2.752	4.0	19.8	6 20	17 43.49	-41 41.3	2.027	3.009	6.1	20.8
6 30	17 32.89	-34 32.5	1.779	2.764	6.5	20.0	6 30	17 31.98	-41 18.5	2.037	3.001	7.5	20.9
7 10	17 23.67	-34 45.5	1.837	2.776	9.9	20.2	7 10	17 21.93	-40 39.3	2.072	2.992	9.9	21.0
7 20	17 16.82	-34 48.3	1.917	2.788	13.0	20.4	7 20	17 14.24	-39 48.7	2.130	2.983	12.6	21.2
282325	2002 TM ₂₃₂		6 17.8 325°42	2°3/17.3	17		474388	2002 TC ₁₂₄		6 17.8 287°94	0°2/17.9	16	
5 11	18 10.41	-22 17.7	1.556	2.404	16.3	19.3	5 11	18 14.17	-25 4.2	2.068	2.893	13.7	22.3
5 21	18 7.23	-21 17.0	1.463	2.385	12.9	19.1	5 21	18 9.73	-24 52.5	1.952	2.860	10.8	22.0
5 31	18 1.26	-20 11.1	1.390	2.366	8.8	18.8	5 31	18 2.79	-24 38.0	1.857	2.828	7.4	21.7
6 10	17 53.18	-19 1.8	1.341	2.347	4.3	18.5	6 10	17 53.90	-24 19.6	1.788	2.794	3.4	21.4
6 20	17 43.99	-17 52.1	1.317	2.330	2.7	18.3	6 20	17 43.84	-23 56.8	1.745	2.761	1.0	21.2
6 30	17 34.97	-16 46.2	1.318	2.313	6.9	18.5	6 30	17 33.69	-23 30.3	1.731	2.727	5.3	21.4
7 10	17 27.36	-15 48.5	1.343	2.297	11.5	18.8	7 10	17 24.57	-23 1.9	1.742	2.693	9.6	21.6
7 20	17 22.11	-15 2.1	1.390	2.282	15.7	19.0	7 20	17 17.39	-22 34.3	1.777	2.658	13.4	21.7
491786	2012 XN ₈		6 17.8 282°57	0°2/17.8	18		255421	2005 XT ₅₆		6 17.9 264°54	0°5/18.0	18	
5 11	18 12.39	-21 54.4	1.948	2.779	14.2	21.8	5 11	18 15.33	-28 14.3	2.557	3.366	11.8	20.2
5 21	18 8.27	-22 8.2	1.855	2.767	11.1	21.5	5 21	18 9.88	-27 34.1	2.449	3.349	9.3	20.0
5 31	18 1.72	-22 24.0	1.783	2.755	7.5	21.3	5 31	18 2.43	-26 47.3	2.365	3.331	6.3	19.8
6 10	17 53.34	-22 40.5	1.736	2.743	3.4	21.0	6 10	17 53.55	-25 53.7	2.307	3.313	2.9	19.5
6 20	17 43.95	-22 56.4	1.715	2.730	1.0	20.8	6 20	17 43.99	-24 53.9	2.279	3.294	0.9	19.3
6 30	17 34.62	-23 10.8	1.721	2.718	5.3	21.1	6 30	17 34.61	-23 50.1	2.281	3.276	4.4	19.6
7 10	17 26.42	-23 23.8	1.754	2.706	9.4	21.3	7 10	17 26.25	-22 45.4	2.311	3.257	7.8	19.7
7 20	17 20.20	-23 36.1	1.809	2.694	13.0	21.5	7 20	17 19.56	-21 43.1	2.367	3.238	10.9	19.9
423842	2006 QK ₃₂		6 17.8 289°26	2°8/18.0	18		59023	1998 SV ₁₀₃		6 17.9 237°06	1°9/17.9	17	
5 11	18 16.16</												

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6 17.9

6 17.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
239560	2008 <i>SO</i> ₁₈₉		6 17.9 173°29	3°9/18.1	18		342691	2008 <i>VQ</i> ₆₄		6 17.9 279°50	2°0/17.9	18	
5 11	18 17.66	-34 42.2	2.481	3.280	12.4	21.7	5 11	18 15.23	-28 14.0	1.964	2.789	14.3	21.2
5 21	18 11.91	-35 13.8	2.397	3.283	10.0	21.5	5 21	18 10.77	-28 27.6	1.856	2.763	11.4	21.0
5 31	18 3.90	-35 39.2	2.335	3.286	7.3	21.4	5 31	18 3.62	-28 38.2	1.768	2.736	7.9	20.7
6 10	17 54.25	-35 55.0	2.299	3.288	4.8	21.2	6 10	17 54.33	-28 43.3	1.705	2.709	4.0	20.4
6 20	17 43.80	-35 59.0	2.291	3.289	3.9	21.1	6 20	17 43.78	-28 40.7	1.669	2.682	2.2	20.2
6 30	17 33.57	-35 50.7	2.311	3.290	5.7	21.3	6 30	17 33.16	-28 29.8	1.660	2.655	5.8	20.4
7 10	17 24.53	-35 31.7	2.358	3.291	8.3	21.4	7 10	17 23.69	-28 12.0	1.677	2.627	9.9	20.6
7 20	17 17.40	-35 5.2	2.430	3.290	11.0	21.6	7 20	17 16.38	-27 50.1	1.717	2.598	13.7	20.7
137958	2000 <i>CX</i> ₁₈		6 17.9 195°86	4°2/17.8	17		420344	2012 <i>BL</i> ₅₃		6 17.9 109°01	0°5/17.9	17	
5 11	18 15.11	-11 32.3	2.089	2.897	14.2	21.0	5 11	18 17.16	-21 42.1	1.623	2.456	16.4	21.8
5 21	18 9.97	-11 18.2	2.002	2.894	11.4	20.8	5 21	18 12.11	-21 46.9	1.556	2.469	12.8	21.6
5 31	18 2.64	-11 11.6	1.936	2.891	8.2	20.6	5 31	18 4.28	-21 53.1	1.510	2.482	8.5	21.4
6 10	17 53.72	-11 13.8	1.895	2.887	5.3	20.4	6 10	17 54.49	-21 59.6	1.487	2.494	3.9	21.1
6 20	17 43.97	-11 25.2	1.881	2.883	4.3	20.4	6 20	17 43.81	-22 5.2	1.490	2.506	1.2	20.9
6 30	17 34.35	-11 45.8	1.896	2.877	6.5	20.5	6 30	17 33.55	-22 9.6	1.520	2.517	5.8	21.3
7 10	17 25.80	-12 14.7	1.936	2.871	9.7	20.7	7 10	17 24.90	-22 13.6	1.576	2.529	10.2	21.6
7 20	17 19.05	-12 50.5	2.001	2.864	12.8	20.8	7 20	17 18.67	-22 18.3	1.653	2.540	13.9	21.8
5599	1991 <i>SG</i> ₁		6 17.9 157°76	0°1/17.8	18		35008	1980 <i>FZ</i> ₂		6 17.9 348°61	9°4/17.1	18	
5 11	18 17.23	-24 27.8	1.882	2.706	14.9	17.3	5 11	18 7.12	-0 31.9	1.894	2.692	15.7	18.3
5 21	18 11.86	-24 11.8	1.804	2.712	11.6	17.1	5 21	18 3.94	+0 34.0	1.819	2.687	13.5	18.1
5 31	18 3.97	-23 53.3	1.747	2.717	7.7	16.8	5 31	17 58.69	+1 26.0	1.764	2.682	11.4	18.0
6 10	17 54.30	-23 31.7	1.715	2.722	3.5	16.6	6 10	17 51.96	+1 59.2	1.731	2.678	9.8	17.9
6 20	17 43.82	-23 7.0	1.710	2.726	1.0	16.4	6 20	17 44.49	+2 10.4	1.722	2.674	9.5	17.8
6 30	17 33.69	-22 40.3	1.733	2.730	5.3	16.7	6 30	17 37.19	+1 58.3	1.736	2.671	10.6	17.9
7 10	17 24.99	-22 13.9	1.783	2.733	9.4	17.0	7 10	17 30.94	+1 24.2	1.772	2.668	12.7	18.0
7 20	17 18.47	-21 50.0	1.855	2.735	13.0	17.2	7 20	17 26.40	+0 31.6	1.829	2.667	15.0	18.2
324366	2006 <i>QC</i> ₁₃₄		6 17.9 309°13	0°5/17.9	18		498436	2008 <i>AC</i> ₁₀₅		6 17.9 69°96	1°7/17.9	17	
5 11	18 12.87	-24 50.1	1.331	2.185	18.2	20.2	5 11	18 17.42	-26 36.4	1.438	2.279	17.8	21.6
5 21	18 10.32	-24 46.6	1.218	2.144	14.6	19.8	5 21	18 12.68	-26 53.2	1.379	2.296	13.8	21.4
5 31	18 4.21	-24 40.9	1.124	2.102	10.1	19.4	5 31	18 4.81	-27 7.5	1.340	2.313	9.3	21.2
6 10	17 54.95	-24 31.3	1.051	2.059	4.7	19.0	6 10	17 54.75	-27 16.2	1.324	2.330	4.5	20.9
6 20	17 43.52	-24 16.0	1.002	2.017	1.4	18.6	6 20	17 43.76	-27 17.5	1.333	2.347	2.0	20.8
6 30	17 31.55	-23 54.7	0.976	1.975	7.6	18.9	6 30	17 33.34	-27 11.3	1.367	2.364	6.3	21.1
7 10	17 20.94	-23 29.9	0.971	1.934	13.8	19.1	7 10	17 24.84	-26 59.7	1.426	2.381	10.3	21.4
7 20	17 13.27	-23 5.3	0.987	1.892	19.4	19.2	7 20	17 19.09	-26 45.9	1.506	2.399	14.7	21.7
145689	2219 <i>T</i> ₋₃		6 17.9 246°50	1°6/17.9	18		338810	2003 <i>WV</i> ₁₅		6 17.9 222°57	1°4/17.8	17	
5 11	18 15.29	-27 17.3	1.761	2.593	15.4	19.2	5 11	18 12.70	-19 44.9	2.134	2.958	13.4	21.8
5 21	18 10.80	-27 26.4	1.676	2.588	12.1	19.0	5 21	18 8.15	-19 34.5	2.046	2.953	10.5	21.6
5 31	18 3.54	-27 32.6	1.612	2.583	8.2	18.8	5 31	18 1.46	-19 25.7	1.979	2.948	7.1	21.4
6 10	17 54.22	-27 33.4	1.572	2.578	4.0	18.5	6 10	17 53.20	-19 18.5	1.938	2.943	3.4	21.1
6 20	17 43.83	-27 27.3	1.558	2.572	1.9	18.3	6 20	17 44.16	-19 12.8	1.923	2.937	1.7	21.0
6 30	17 33.67	-27 14.3	1.571	2.567	5.8	18.6	6 30	17 35.27	-19 9.2	1.937	2.932	5.1	21.2
7 10	17 24.95	-26 56.1	1.608	2.561	10.0	18.8	7 10	17 27.45	-19 8.1	1.977	2.926	8.7	21.4
7 20	17 18.57	-26 35.8	1.669	2.556	13.8	19.0	7 20	17 21.41	-19 10.1	2.041	2.919	12.0	21.6
241750	2001 <i>BV</i> ₈		6 17.9 252°53	3°3/17.9	18		86155	1999 <i>RS</i> ₂₀₁		6 17.9 186°72	2°1/17.5	18	
5 11	18 13.91	-12 55.3	2.255	3.063	13.2	21.0	5 11	18 10.64	-17 27.5	2.890	3.699	10.6	19.5
5 21	18 9.10	-12 54.9	2.148	3.043	10.6	20.7	5 21	18 5.88	-16 55.2	2.800	3.698	8.3	19.4
5 31	18 2.15	-13 1.5	2.064	3.022	7.6	20.5	5 31	17 59.60	-16 24.1	2.734	3.697	5.7	19.2
6 10	17 53.55	-13 15.8	2.004	3.001	4.6	20.3	6 10	17 52.26	-15 55.1	2.696	3.696	3.2	19.0
6 20	17 44.01	-13 37.8	1.973	2.979	3.4	20.2	6 20	17 44.43	-15 29.1	2.686	3.695	2.3	18.9
6 30	17 34.40	-14 6.9	1.970	2.956	5.9	20.3	6 30	17 36.76	-15 7.1	2.706	3.693	4.4	19.1
7 10	17 25.65	-14 42.3	1.993	2.933	9.2	20.4	7 10	17 29.88	-14 50.0	2.753	3.690	7.1	19.3
7 20	17 18.55	-15 22.8	2.042	2.909	12.5	20.6	7 20	17 24.29	-14 38.3	2.826	3.688	9.6	19.4
117248	2004 <i>SN</i> ₃₈		6 17.9 12°97	10°1/17.1	18		168957	2001 <i>AB</i> ₅₂		6 17.9 222°03	1°6/17.8	17	
5 11	18 8.99	-3 30.9	1.449	2.273	18.5	18.8	5 11	18 18.02	-25 50.9	1.816	2.641	15.3	20.3
5 21	18 5.89	-2 11.1	1.386	2.275	15.6	18.7	5 21	18 12.96	-26 21.1	1.725	2.633	12.1	20.1
5 31	18 0.20	-1 6.2	1.342	2.278	12.8	18.5	5 31	18 5.07	-26 51.2	1.655	2.624	8.2	19.9
6 10	17 52.67	-0 22.3	1.319	2.282	10.7	18.4	6 10	17 54.97	-27 18.3	1.610	2.615	4.0	19.6
6 20	17 44.28	-0 3.6	1.319	2.287	10.2	18.4	6 20	17 43.65	-27 39.3	1.591	2.605	1.9	19.4
6 30	17 36.21	-0 11.9	1.340	2.292	11.7	18.5	6 30	17 32.40	-27 52.8	1.600	2.595	5.9	19.7
7 10	17 29.56	-0 45.0	1.383	2.298	14.3	18.6	7 10	17 22.52	-27 59.3	1.635	2.584	10.2	19.9
7 20	17 25.12	-1 38.5	1.445	2.304	17.1	18.8	7 20	17 14.98	-28 0.8	1.693	2.573	14.0	20.1
158080	2000 <i>US</i> ₁₀₇		6 17.9 228°27	0°3/17.9	18		173584	2001 <i>CD</i> ₁₁		6 17.9 250°34	3°7/18.1	18	
5 11	18 15.22	-22 47.3	2.186	3.004	13.3	20.9	5 11	18 18.92	-31 49.7	1.764	2.586	15.8	20.6
5 21	18 10.24	-23 10.4	2.089	2.994	10.4	20.6	5 21	18 13.99	-32 14.1	1.667	2.570	12.7	20.3
5 31	18 2.95	-23 35.0	2.015	2.984	7.0	20.4	5 31	18 5.95	-32 33.0	1.591	2.553	9.0	20.1
6 10	17 53.92	-23 59.6	1.966	2.972	3.2	20.2	6 10	17 55.44	-32 42.2	1.538	2.537	5.3	19.8
6 20	17 43.92	-24 22.2	1.945	2.961	0.9	19.9	6 20	17 43.54	-32 38.3	1.511	2.519	3.8	19.7
6 30	17 33.96	-24 41.7	1.953	2.949	4.9	20.2	6 30	17 31.70	-32 20.4	1.511	2.501	6.8	19.8
7 10	17 25.03	-24 58.0	1.988	2.936	8.7	20.4	7 10	17 21.37	-31 50.9	1.536	2.483	10.9	20.0
7 20	17 17.96	-25 12.0	2.047	2.923	12.1	20.6	7 20	17 13.65	-31 14.2	1.584	2.464	14.8	20.2
334001	2000 <i>TR</i> ₅₀		6 17.9 245°67	0°6/17.9	18		146956 </						

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
419717	2010 VC ₁₄		6 17.9 237°60	2°4/17.8	17		514207	2015 MA ₁₃₇		6 17.9 283°28	3°1/18.0	18	
5 11	18 17.35	-27 29.4	1.722	2.551	15.8	21.6	5 11	18 10.77	-13 17.6	2.223	3.039	13.1	20.8
5 21	18 12.66	-28 5.0	1.632	2.542	12.5	21.3	5 21	18 6.63	-13 23.7	2.128	3.028	10.5	20.6
5 31	18 4.98	-28 39.7	1.564	2.533	8.6	21.1	5 31	18 0.47	-13 37.2	2.055	3.017	7.4	20.4
6 10	17 54.98	-29 9.7	1.520	2.524	4.5	20.8	6 10	17 52.81	-13 58.3	2.008	3.006	4.3	20.2
6 20	17 43.68	-29 31.6	1.502	2.514	2.7	20.7	6 20	17 44.33	-14 26.7	1.987	2.995	3.2	20.1
6 30	17 32.46	-29 43.7	1.511	2.504	6.3	20.9	6 30	17 35.90	-15 1.6	1.995	2.984	5.5	20.2
7 10	17 22.69	-29 46.6	1.544	2.494	10.6	21.1	7 10	17 28.37	-15 41.7	2.028	2.972	8.8	20.4
7 20	17 15.40	-29 43.1	1.601	2.483	14.5	21.3	7 20	17 22.45	-16 25.7	2.086	2.961	11.9	20.6
508605	2017 SZ ₉		6 17.9 264°74	2°6/17.9	17		305924	2009 FN ₆₄		6 17.9 16°17	5°6/17.3	16	
5 11	18 17.41	-28 28.0	1.619	2.452	16.5	21.6	5 11	18 9.60	-10 9.1	1.983	2.802	14.4	20.7
5 21	18 13.03	-28 50.4	1.523	2.434	13.1	21.3	5 21	18 5.73	-9 20.2	1.907	2.804	11.7	20.6
5 31	18 5.44	-29 10.1	1.446	2.416	9.1	21.0	5 31	17 59.83	-8 38.4	1.853	2.806	8.7	20.4
6 10	17 55.27	-29 23.5	1.393	2.397	4.8	20.7	6 10	17 52.47	-8 6.6	1.823	2.808	6.3	20.2
6 20	17 43.61	-29 27.3	1.365	2.378	2.8	20.5	6 20	17 44.45	-7 47.0	1.818	2.810	5.7	20.2
6 30	17 31.93	-29 20.3	1.364	2.358	6.7	20.7	6 30	17 36.65	-7 40.8	1.840	2.812	7.5	20.3
7 10	17 21.76	-29 4.4	1.386	2.339	11.4	21.0	7 10	17 29.94	-7 47.8	1.886	2.815	10.3	20.5
7 20	17 14.25	-28 43.0	1.431	2.319	15.6	21.2	7 20	17 24.95	-8 6.7	1.955	2.818	13.1	20.7
511404	2014 HJ ₂₁		6 17.9 85°97	5°0/17.2	17		374423	2005 WX ₁₀₉		6 17.9 271°80	0°7/17.8	17	
5 11	18 11.24	-10 27.7	2.264	3.072	13.2	21.6	5 11	18 13.99	-22 2.3	1.784	2.617	15.2	21.6
5 21	18 6.58	-9 32.9	2.198	3.089	10.6	21.4	5 21	18 9.79	-21 54.7	1.688	2.601	12.0	21.3
5 31	18 0.15	-8 44.4	2.156	3.105	7.9	21.3	5 31	18 2.94	-21 47.3	1.613	2.585	8.1	21.1
6 10	17 52.53	-8 4.6	2.138	3.121	5.7	21.2	6 10	17 54.04	-21 39.7	1.562	2.568	3.7	20.8
6 20	17 44.43	-7 35.5	2.147	3.137	5.1	21.2	6 20	17 44.01	-21 31.2	1.537	2.552	1.3	20.5
6 30	17 36.64	-7 18.5	2.184	3.152	6.8	21.3	6 30	17 34.04	-21 22.5	1.538	2.535	5.8	20.8
7 10	17 29.88	-7 13.5	2.246	3.168	9.2	21.5	7 10	17 25.32	-21 14.5	1.565	2.518	10.2	21.0
7 20	17 24.69	-7 19.5	2.332	3.183	11.7	21.7	7 20	17 18.78	-21 8.8	1.615	2.502	14.2	21.2
381096	2007 CS ₆		6 17.9 250°11	2°1/17.9	17		150626	2001 AG ₇		6 17.9 256°90	4°1/17.9	18 R	
5 11	18 14.50	-17 3.7	1.793	2.621	15.3	21.4	5 11	18 10.82	-9 10.2	2.667	3.464	11.7	20.2
5 21	18 10.08	-17 11.0	1.701	2.610	12.1	21.2	5 21	18 6.33	-9 7.0	2.562	3.446	9.5	20.1
5 31	18 3.07	-17 24.1	1.631	2.599	8.3	20.9	5 31	18 0.11	-9 11.7	2.480	3.428	7.1	19.9
6 10	17 54.07	-17 42.8	1.584	2.588	4.2	20.6	6 10	17 52.62	-9 25.3	2.424	3.409	4.9	19.7
6 20	17 43.96	-18 6.2	1.564	2.577	2.3	20.5	6 20	17 44.42	-9 48.3	2.395	3.390	4.1	19.6
6 30	17 33.90	-18 33.4	1.570	2.565	6.0	20.7	6 30	17 36.20	-10 20.2	2.394	3.371	5.7	19.7
7 10	17 25.04	-19 3.4	1.602	2.553	10.2	20.9	7 10	17 28.70	-11 0.0	2.421	3.351	8.3	19.8
7 20	17 18.30	-19 35.7	1.657	2.541	14.1	21.1	7 20	17 22.50	-11 46.2	2.474	3.331	10.9	20.0
385147	2013 TP ₂₆		6 17.9 301°97	1°4/17.9	18		355603	2008 CH ₂₁₅		6 17.9 349°53	11°3/19.2	18	
5 11	18 13.26	-25 48.5	1.466	2.314	17.2	20.7	5 11	18 23.64	-54 11.1	2.107	2.848	16.1	20.2
5 21	18 9.99	-26 1.8	1.373	2.294	13.6	20.4	5 21	18 18.28	-55 20.3	2.035	2.846	14.5	20.0
5 31	18 3.50	-26 14.0	1.299	2.274	9.3	20.1	5 31	18 9.06	-56 11.9	1.981	2.844	12.9	19.9
6 10	17 54.43	-26 22.6	1.247	2.254	4.4	19.7	6 10	17 56.88	-56 38.2	1.947	2.842	11.7	19.8
6 20	17 43.85	-26 25.4	1.219	2.234	1.8	19.5	6 20	17 43.27	-56 33.8	1.936	2.841	11.3	19.8
6 30	17 33.24	-26 21.5	1.216	2.215	6.7	19.8	6 30	17 30.15	-55 57.7	1.947	2.840	11.8	19.8
7 10	17 24.15	-26 12.3	1.237	2.196	11.8	20.0	7 10	17 19.33	-54 53.9	1.980	2.839	13.1	19.9
7 20	17 17.78	-26 0.5	1.279	2.177	16.3	20.2	7 20	17 11.91	-53 30.0	2.033	2.839	14.8	20.0
198477	2004 XH ₃₈		6 17.9 298°59	10°3/16.1	18		384828	2012 RQ ₂₆		6 17.9 244°27	2°4/17.8	17	
5 11	18 10.29	-1 44.3	1.721	2.524	16.9	20.4	5 11	18 12.70	-17 8.1	2.009	2.833	14.1	21.2
5 21	18 6.92	-0 28.0	1.621	2.494	14.6	20.2	5 21	18 8.33	-16 58.3	1.918	2.825	11.1	21.0
5 31	18 1.06	+ 0 36.9	1.541	2.465	12.3	19.9	5 31	18 1.70	-16 52.4	1.850	2.817	7.6	20.7
6 10	17 53.22	+ 1 24.0	1.483	2.435	10.6	19.8	6 10	17 53.40	-16 50.7	1.806	2.809	4.0	20.5
6 20	17 44.18	+ 1 48.2	1.448	2.405	10.4	19.7	6 20	17 44.22	-16 53.3	1.789	2.801	2.5	20.4
6 30	17 35.03	+ 1 45.9	1.435	2.376	12.0	19.7	6 30	17 35.16	-17 0.4	1.800	2.792	5.6	20.6
7 10	17 26.90	+ 1 17.1	1.445	2.346	14.7	19.8	7 10	17 27.19	-17 12.0	1.836	2.783	9.4	20.8
7 20	17 20.72	+ 0 24.8	1.474	2.317	17.7	19.9	7 20	17 21.08	-17 27.9	1.896	2.775	12.8	21.0
190668	2000 YK ₁₁₂		6 17.9 238°50	1°5/17.9	18		373557	2001 VP ₉₅		6 17.9 218°02	7°5/16.7	18	
5 11	18 15.94	-27 13.1	2.336	3.149	12.7	21.2	5 11	18 12.73	-6 0.8	1.983	2.785	15.0	21.1
5 21	18 10.76	-27 29.2	2.232	3.133	10.0	21.0	5 21	18 8.21	-4 52.3	1.900	2.780	12.5	21.0
5 31	18 3.30	-27 43.3	2.150	3.116	6.8	20.7	5 31	18 1.53	-3 52.5	1.839	2.774	9.9	20.8
6 10	17 54.12	-27 53.3	2.095	3.099	3.4	20.5	6 10	17 53.29	-3 5.6	1.801	2.768	7.9	20.6
6 20	17 43.97	-27 57.5	2.068	3.082	1.7	20.3	6 20	17 44.26	-2 34.9	1.789	2.762	7.6	20.6
6 30	17 33.84	-27 55.4	2.070	3.063	4.9	20.5	6 30	17 35.39	-2 22.5	1.802	2.755	9.2	20.7
7 10	17 24.74	-27 47.9	2.098	3.044	8.5	20.7	7 10	17 27.61	-2 28.3	1.840	2.748	11.7	20.8
7 20	17 17.44	-27 36.8	2.152	3.025	11.7	20.9	7 20	17 21.61	-2 50.4	1.900	2.740	14.4	21.0
98120	2000 SK ₅		6 17.9 297°58	5°8/17.9	18		414068	2007 TX ₂₀		6 17.9 208°58	1°9/17.9	17	
5 11	18 16.29	-33 18.1	1.369	2.211	18.5	19.2	5 11	18 18.93	-27 44.7	1.839	2.660	15.3	22.7
5 21	18 12.91	-34 8.3	1.283	2.195	15.0	18.9	5 21	18 13.61	-28 0.1	1.749	2.655	12.0	22.5
5 31	18 5.77	-34 53.2	1.215	2.180	11.0	18.6	5 31	18 5.46	-28 12.7	1.682	2.649	8.2	22.2
6 10	17 55.56	-35 26.2	1.170	2.165	7.2	18.3	6 10	17 55.16	-28 19.4	1.638	2.643	4.1	22.0
6 20	17 43.54	-35 41.5	1.147	2.150	5.9	18.2	6 20	17 43.74	-28 18.3	1.622	2.635	2.1	21.8
6 30	17 31.55	-35 36.2	1.148	2.136	8.8	18.3	6 30	17 32.49	-28 8.8	1.633	2.627	5.8	22.0
7 10	17 21.48	-35 12.8	1.171	2.121	13.2	18.5	7 10	17 22.69	-27 52.7	1.670	2.619	10.0	22.3
7 20	17 14.67	-34 37.2	1.214	2.107	17.5	18.8	7 20	17 15.25	-27 33.2	1.730	2.609	13.8	22.5
250568	2004 TA ₁₁₇		6 17.9 167°56	2°5/17.5	18		33115	1998 BB ₈		6 17.9 128°82	7°5/18.4	18	
5 11	18 9.82												

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
218606	2005 <i>NW</i> ₉₉	6 17.9 296°32		1.3°/17.9 18			57297	2001 <i>QB</i> ₁₈₈	6 17.9 177°91		2.7°/17.5 18		
5 11	18 13.87	-25 12.3	1.542	2.385	16.7	20.1	5 11	18 15.26	-18 11.0	2.027	2.847	14.1	19.4
5 21	18 10.40	-25 32.6	1.442	2.361	13.2	19.8	5 21	18 10.14	-17 32.7	1.945	2.849	11.1	19.2
5 31	18 3.79	-25 53.3	1.363	2.337	9.0	19.5	5 31	18 2.79	-16 55.6	1.884	2.850	7.6	19.0
6 10	17 54.61	-26 12.0	1.306	2.313	4.3	19.2	6 10	17 53.86	-16 20.8	1.849	2.851	4.1	18.8
6 20	17 43.87	-26 25.8	1.274	2.289	1.7	18.9	6 20	17 44.19	-15 49.8	1.841	2.851	2.8	18.7
6 30	17 32.99	-26 33.2	1.267	2.265	6.6	19.2	6 30	17 34.77	-15 24.1	1.861	2.851	5.8	18.9
7 10	17 23.51	-26 34.9	1.285	2.242	11.6	19.4	7 10	17 26.57	-15 5.1	1.908	2.850	9.4	19.1
7 20	17 16.63	-26 33.0	1.323	2.218	16.1	19.6	7 20	17 20.26	-14 53.6	1.978	2.848	12.7	19.3
275905	2001 <i>TN</i> ₁₁₅	6 17.9 215°02		3.9°/17.9 18			410392	2007 <i>WD</i> ₄	6 17.9 132°88		1.0°/17.9 17		
5 11	18 19.09	-33 46.2	2.373	3.173	12.9	22.0	5 11	18 19.15	-25 1.3	1.809	2.632	15.4	21.9
5 21	18 13.32	-34 23.1	2.275	3.164	10.4	21.8	5 21	18 13.52	-25 21.2	1.738	2.645	12.0	21.7
5 31	18 5.08	-34 54.9	2.201	3.154	7.5	21.7	5 31	18 5.22	-25 40.2	1.689	2.658	8.1	21.5
6 10	17 54.96	-35 17.8	2.152	3.143	4.9	21.5	6 10	17 54.99	-25 56.1	1.664	2.670	3.7	21.3
6 20	17 43.82	-35 28.8	2.131	3.132	4.0	21.4	6 20	17 43.89	-26 6.7	1.666	2.681	1.4	21.1
6 30	17 32.75	-35 26.7	2.139	3.120	5.9	21.5	6 30	17 33.15	-26 11.5	1.696	2.692	5.5	21.4
7 10	17 22.84	-35 13.0	2.173	3.107	8.9	21.6	7 10	17 23.94	-26 11.5	1.752	2.702	9.6	21.7
7 20	17 14.94	-34 50.6	2.232	3.093	11.8	21.8	7 20	17 17.06	-26 9.0	1.831	2.711	13.1	21.9
105781	2000 <i>SM</i> ₁₁₅	6 17.9 244°53		0.3°/17.9 18			191756	2004 <i>SU</i> ₅₄	6 17.9 291°15		4.4°/17.4 18		
5 11	18 12.13	-24 19.6	2.612	3.427	11.4	20.4	5 11	18 12.84	-14 19.5	1.802	2.629	15.3	20.6
5 21	18 7.48	-24 24.9	2.510	3.414	8.9	20.2	5 21	18 8.96	-13 43.8	1.690	2.596	12.4	20.4
5 31	18 0.94	-24 29.6	2.432	3.400	6.0	20.0	5 31	18 2.50	-13 12.0	1.600	2.563	8.9	20.1
6 10	17 53.02	-24 32.5	2.380	3.386	2.7	19.7	6 10	17 53.95	-12 46.2	1.533	2.530	5.6	19.8
6 20	17 44.36	-24 32.9	2.356	3.372	0.8	19.5	6 20	17 44.12	-12 28.4	1.492	2.497	4.6	19.7
6 30	17 35.76	-24 30.6	2.361	3.357	4.2	19.8	6 30	17 34.11	-12 20.4	1.477	2.463	7.5	19.7
7 10	17 28.01	-24 26.4	2.394	3.342	7.5	20.0	7 10	17 25.12	-12 23.2	1.487	2.429	11.5	19.9
7 20	17 21.77	-24 21.3	2.452	3.326	10.4	20.1	7 20	17 18.14	-12 36.6	1.518	2.395	15.5	20.1
481213	2005 <i>VB</i> ₃₆	6 17.9 235°99		3.0°/17.2 18			433934	2015 <i>CP</i> ₃₂	6 17.9 44°14		8.8°/19.1 17		
5 11	18 10.98	-14 45.7	2.932	3.736	10.6	22.4	5 11	18 19.93	-43 21.9	1.577	2.384	18.0	20.8
5 21	18 6.23	-14 5.4	2.829	3.721	8.4	22.2	5 21	18 15.23	-44 12.6	1.517	2.396	15.1	20.6
5 31	17 59.92	-13 27.1	2.749	3.707	6.0	22.0	5 31	18 6.85	-44 47.5	1.476	2.408	12.2	20.5
6 10	17 52.50	-12 52.0	2.697	3.691	3.7	21.8	6 10	17 55.83	-44 59.7	1.456	2.421	9.7	20.4
6 20	17 44.51	-12 21.5	2.673	3.675	3.1	21.8	6 20	17 43.69	-44 45.0	1.460	2.434	8.8	20.3
6 30	17 36.60	-11 56.9	2.679	3.659	5.0	21.9	6 30	17 32.23	-44 3.8	1.487	2.447	10.0	20.5
7 10	17 29.40	-11 39.0	2.713	3.642	7.5	22.0	7 10	17 23.06	-43 1.6	1.537	2.461	12.5	20.6
7 20	17 23.44	-11 28.2	2.771	3.625	10.0	22.2	7 20	17 17.13	-41 46.5	1.608	2.475	15.3	20.8
304600	2006 <i>VM</i> ₇₀	6 17.9 276°79		0.4°/17.9 18			249462	2009 <i>HF</i> ₉₃	6 17.9 260°74		0.4°/17.9 18		
5 11	18 11.89	-22 16.0	2.241	3.064	12.8	21.6	5 11	18 11.56	-21 37.0	2.345	3.167	12.4	20.8
5 21	18 7.63	-22 14.1	2.138	3.046	10.0	21.4	5 21	18 7.22	-21 43.9	2.249	3.156	9.7	20.6
5 31	18 1.24	-22 12.6	2.057	3.027	6.8	21.2	5 31	18 0.88	-21 52.0	2.176	3.145	6.5	20.4
6 10	17 53.22	-22 10.7	2.001	3.008	3.1	20.9	6 10	17 53.04	-22 0.6	2.128	3.135	3.0	20.1
6 20	17 44.31	-22 8.0	1.973	2.989	0.9	20.7	6 20	17 44.42	-22 8.9	2.108	3.124	0.9	19.9
6 30	17 35.42	-22 4.5	1.973	2.969	4.8	20.9	6 30	17 35.87	-22 16.6	2.117	3.113	4.5	20.2
7 10	17 27.49	-22 1.0	2.000	2.950	8.5	21.1	7 10	17 28.25	-22 23.8	2.152	3.102	8.0	20.4
7 20	17 21.27	-21 58.4	2.050	2.930	11.9	21.3	7 20	17 22.26	-22 31.3	2.211	3.090	11.2	20.6
240529	2004 <i>FM</i> ₁₄₃	6 17.9 29°31		0.6°/17.9 18			237781	2002 <i>AB</i> ₁₂₈	6 17.9 209°58		4.0°/17.8 18		
5 11	18 12.30	-18 32.9	1.616	2.456	16.2	19.6	5 11	18 13.72	-11 44.6	2.248	3.055	13.3	21.5
5 21	18 8.42	-19 17.5	1.552	2.468	12.6	19.4	5 21	18 8.82	-11 30.7	2.157	3.049	10.7	21.3
5 31	18 1.92	-20 8.9	1.508	2.482	8.4	19.1	5 31	18 1.90	-11 23.6	2.087	3.042	7.7	21.1
6 10	17 53.53	-21 4.7	1.489	2.496	3.8	18.9	6 10	17 53.49	-11 24.6	2.043	3.035	5.0	20.9
6 20	17 44.25	-22 1.5	1.496	2.511	1.2	18.7	6 20	17 44.31	-11 34.1	2.026	3.027	4.0	20.8
6 30	17 35.26	-22 56.5	1.529	2.527	5.6	19.1	6 30	17 35.22	-11 52.1	2.037	3.019	6.1	20.9
7 10	17 27.72	-23 47.8	1.587	2.543	9.8	19.4	7 10	17 27.08	-12 18.0	2.075	3.010	9.2	21.1
7 20	17 22.44	-24 34.7	1.667	2.560	13.5	19.6	7 20	17 20.59	-12 50.5	2.137	3.001	12.1	21.3
442915	2013 <i>CU</i> ₃₆	6 17.9 107°46		5.6°/18.3 18			523613	2006 <i>SJ</i> ₁₉₈	6 17.9 106°50		0.0°/17.9 18		
5 11	18 10.66	-4 29.4	2.509	3.296	12.7	21.5	5 11	18 27.74	-23 43.1	1.751	2.559	16.5	21.8
5 21	18 6.05	-4 16.9	2.438	3.308	10.4	21.4	5 21	18 19.74	-23 41.5	1.698	2.597	12.7	21.7
5 31	17 59.81	-4 15.2	2.388	3.320	8.1	21.3	5 31	18 9.02	-23 38.4	1.667	2.633	8.4	21.5
6 10	17 52.43	-4 25.8	2.363	3.331	6.2	21.2	6 10	17 56.56	-23 32.0	1.662	2.668	3.8	21.3
6 20	17 44.56	-4 49.0	2.365	3.343	5.6	21.1	6 20	17 43.55	-23 21.7	1.685	2.701	1.0	21.1
6 30	17 36.88	-5 24.4	2.394	3.354	6.8	21.2	6 30	17 31.33	-23 8.3	1.737	2.732	5.5	21.5
7 10	17 30.08	-6 10.3	2.450	3.365	8.8	21.4	7 10	17 21.00	-22 53.7	1.817	2.762	9.6	21.8
7 20	17 24.68	-7 4.2	2.530	3.376	11.0	21.5	7 20	17 13.26	-22 40.3	1.920	2.790	13.0	22.1
291786	2006 <i>KR</i> ₄₈	6 17.9 281°60		0.3°/17.9 18			440230	2004 <i>PQ</i> ₁₁₁	6 17.9 3°87		15.2°/22.0 18		
5 11	18 15.12	-20 59.2	1.476	2.319	17.3	20.7	5 11	18 24.52	-60 3.4	1.655	2.389	20.1	19.9
5 21	18 11.38	-21 22.6	1.383	2.301	13.7	20.4	5 21	18 20.61	-61 15.8	1.595	2.389	18.5	19.8
5 31	18 4.45	-21 51.2	1.309	2.283	9.3	20.1	5 31	18 11.38	-62 2.7	1.550	2.389	17.0	19.6
6 10	17 54.92	-22 23.0	1.258	2.265	4.3	19.8	6 10	17 58.10	-62 14.1	1.523	2.391	15.8	19.6
6 20	17 43.82	-22 55.5	1.231	2.247	1.2	19.5	6 20	17 43.10	-61 43.3	1.513	2.395	15.3	19.5
6 30	17 32.62	-23 26.4	1.230	2.229	6.6	19.8	6 30	17 29.30	-60 29.8	1.523	2.399	15.5	19.6
7 10	17 22.87	-23 54.9	1.253	2.211	11.8	20.0	7 10	17 19.07	-58 40.7	1.552	2.405	16.5	19.6
7 20	17 15.75	-24 21.3	1.298	2.192	16.4	20.3	7 20	17 13.49	-56 27.1	1.600	2.412	17.9	19.8
344457	2002 <i>MX</i> ₃	6 17.9 340°20		5.2°/16.8 17			336860	2011 <i>FN</i> ₁₂₉	6 17.9 351°81				

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
2116	Mtskheta		6 17.9 285°82	5°9/17.6	18		19508	1998 MC ₁₇		6 17.9 145°99	0°3/17.9	18	
5 11	18 11.58	-10 1.0	1.752	2.575	15.8	16.5	5 11	18 11.71	-24 18.0	2.981	3.791	10.3	19.9
5 21	18 7.69	-9 22.4	1.670	2.569	12.9	16.3	5 21	18 6.76	-24 22.3	2.899	3.800	8.0	19.8
5 31	18 1.40	-8 52.4	1.608	2.562	9.6	16.1	5 31	18 0.25	-24 25.8	2.841	3.808	5.3	19.6
6 10	17 53.34	-8 33.9	1.569	2.556	6.8	15.9	6 10	17 52.67	-24 27.6	2.811	3.817	2.4	19.4
6 20	17 44.36	-8 29.0	1.555	2.550	6.0	15.9	6 20	17 44.59	-24 27.2	2.809	3.825	0.7	19.3
6 30	17 35.54	-8 38.5	1.567	2.543	8.1	16.0	6 30	17 36.70	-24 24.6	2.837	3.832	3.6	19.5
7 10	17 27.91	-9 1.7	1.602	2.537	11.4	16.1	7 10	17 29.63	-24 20.5	2.893	3.839	6.4	19.7
7 20	17 22.28	-9 36.7	1.660	2.531	14.7	16.3	7 20	17 23.88	-24 15.7	2.975	3.846	8.9	19.9
62639	2000 SS ₃₅₇		6 17.9 190°17	2°2/18.1	18		72140	2000 YD ₈₅		6 17.9 15°22	1°0/17.6	18	
5 11	18 14.88	-15 24.8	1.977	2.796	14.5	19.1	5 11	18 11.23	-27 0.2	1.183	2.047	19.3	17.3
5 21	18 10.06	-15 47.1	1.892	2.795	11.4	18.9	5 21	18 1.32	-25 41.4	1.124	2.055	15.1	17.1
5 31	18 2.90	-16 16.9	1.829	2.795	7.8	18.7	5 31	18 2.11	-24 12.7	1.085	2.064	10.0	16.8
6 10	17 54.00	-16 53.4	1.791	2.794	4.1	18.5	6 10	17 53.65	-22 37.0	1.067	2.075	4.5	16.5
6 20	17 44.19	-17 35.1	1.780	2.792	2.3	18.3	6 20	17 44.35	-20 59.2	1.072	2.087	1.7	16.4
6 30	17 34.49	-18 20.1	1.797	2.791	5.5	18.5	6 30	17 35.78	-19 26.3	1.102	2.101	7.0	16.7
7 10	17 25.92	-19 7.0	1.841	2.789	9.3	18.8	7 10	17 29.25	-18 4.6	1.154	2.117	12.0	17.1
7 20	17 19.26	-19 54.3	1.909	2.787	12.7	19.0	7 20	17 25.54	-16 58.1	1.227	2.133	16.3	17.4
470799	2008 UV ₃₆₅		6 17.9 267°90	0°3/17.9	18		64179	2001 TR ₆₃		6 17.9 211°62	0°2/17.9	18	
5 11	18 13.97	-21 49.1	2.033	2.858	13.9	21.8	5 11	18 12.64	-23 37.0	2.904	3.713	10.6	20.7
5 21	18 9.54	-21 58.1	1.930	2.839	10.9	21.6	5 21	18 7.65	-23 45.0	2.805	3.705	8.2	20.6
5 31	18 2.71	-22 8.7	1.848	2.819	7.4	21.3	5 31	18 0.96	-23 52.7	2.730	3.697	5.5	20.4
6 10	17 53.98	-22 19.9	1.792	2.799	3.4	21.0	6 10	17 53.04	-23 59.2	2.682	3.688	2.5	20.1
6 20	17 44.18	-22 30.5	1.762	2.778	1.0	20.8	6 20	17 44.49	-24 3.8	2.663	3.679	0.7	20.0
6 30	17 34.34	-22 39.9	1.760	2.757	5.2	21.1	6 30	17 36.01	-24 6.3	2.674	3.669	3.8	20.2
7 10	17 25.55	-22 48.3	1.785	2.736	9.3	21.3	7 10	17 28.31	-24 7.0	2.713	3.659	6.8	20.4
7 20	17 18.68	-22 56.6	1.833	2.714	13.0	21.4	7 20	17 21.97	-24 6.8	2.778	3.648	9.5	20.6
347844	2002 QX ₂₄		6 17.9 276°22	3°3/16.9	18		252856	2002 GO ₁₅₇		6 17.9 316°18	5°7/17.8	18	
5 11	18 15.46	-18 36.3	2.177	2.992	13.4	20.6	5 11	18 10.79	-12 25.7	1.301	2.150	18.8	20.0
5 21	18 10.38	-17 24.3	2.065	2.967	10.7	20.4	5 21	18 8.03	-11 56.2	1.219	2.136	15.2	19.7
5 31	18 3.07	-16 8.9	1.977	2.941	7.5	20.2	5 31	18 2.18	-11 36.2	1.155	2.123	11.1	19.4
6 10	17 54.07	-14 52.4	1.915	2.915	4.3	19.9	6 10	17 53.89	-11 28.9	1.113	2.110	7.2	19.2
6 20	17 44.17	-13 37.8	1.882	2.888	3.5	19.8	6 20	17 44.23	-11 36.3	1.092	2.097	5.8	19.1
6 30	17 34.32	-12 28.8	1.878	2.861	6.4	19.9	6 30	17 34.63	-11 58.9	1.096	2.085	8.9	19.2
7 10	17 25.48	-11 28.7	1.900	2.834	10.0	20.1	7 10	17 26.56	-12 35.6	1.121	2.073	13.4	19.4
7 20	17 18.42	-10 40.0	1.947	2.806	13.4	20.3	7 20	17 21.10	-13 23.5	1.166	2.063	17.7	19.6
106654	2000 WA ₁₄₁		6 17.9 134°62	2°4/17.7	17		246267	2007 TN ₂₉		6 17.9 316°63	1°8/17.8	16	
5 11	18 17.10	-19 18.9	1.677	2.507	16.2	20.6	5 11	18 11.62	-19 36.0	1.883	2.716	14.5	21.1
5 21	18 11.96	-18 47.7	1.606	2.516	12.7	20.4	5 21	18 7.64	-19 17.6	1.799	2.711	11.4	20.8
5 31	18 4.19	-18 17.7	1.555	2.524	8.6	20.2	5 31	18 1.33	-19 0.9	1.736	2.707	7.7	20.6
6 10	17 54.55	-17 50.0	1.528	2.533	4.4	19.9	6 10	17 53.31	-18 46.0	1.697	2.702	3.8	20.4
6 20	17 44.08	-17 25.5	1.528	2.540	2.6	19.8	6 20	17 44.44	-18 33.6	1.685	2.698	2.1	20.2
6 30	17 34.01	-17 5.7	1.555	2.548	6.3	20.1	6 30	17 35.75	-18 24.4	1.699	2.694	5.6	20.5
7 10	17 25.47	-16 51.9	1.606	2.555	10.4	20.3	7 10	17 28.27	-18 19.2	1.739	2.690	9.5	20.7
7 20	17 19.22	-16 45.1	1.681	2.561	14.1	20.6	7 20	17 22.74	-18 18.6	1.801	2.686	13.0	20.9
106595	2000 WT ₁₀₉		6 17.9 117°82	1°6/18.1	18		470309	2007 JK ₄₃		6 17.9 9°42	1°2/16.9	18	
5 11	18 12.93	-28 35.0	2.480	3.295	12.0	19.8	5 11	17 50.83	+ 5 26.9	24.028	24.746	1.7	21.1
5 21	18 8.09	-28 41.8	2.401	3.303	9.4	19.6	5 21	17 49.79	+ 5 37.0	23.956	24.753	1.5	21.1
5 31	18 1.31	-28 45.2	2.345	3.310	6.4	19.4	5 31	17 48.61	+ 5 45.4	23.908	24.761	1.3	21.0
6 10	17 53.18	-28 43.5	2.314	3.318	3.2	19.2	6 10	17 47.35	+ 5 51.9	23.884	24.768	1.2	21.0
6 20	17 44.44	-28 36.1	2.312	3.325	1.7	19.1	6 20	17 46.05	+ 5 56.5	23.886	24.775	1.2	21.0
6 30	17 35.96	-28 22.9	2.339	3.332	4.4	19.3	6 30	17 44.76	+ 5 58.9	23.913	24.783	1.2	21.0
7 10	17 28.52	-28 5.6	2.392	3.339	7.5	19.6	7 10	17 43.53	+ 5 59.4	23.965	24.790	1.4	21.1
7 20	17 22.75	-27 45.8	2.470	3.346	10.3	19.7	7 20	17 42.40	+ 5 58.0	24.041	24.798	1.6	21.1
282699	2006 BY ₃₇		6 17.9 36°04	7°2/18.6	16		134599	1999 TF ₁₄₈		6 17.9 213°64	5°3/17.9	17	
5 11	18 11.43	-6 52.8	1.341	2.176	19.2	20.0	5 11	18 19.99	-34 41.1	1.767	2.583	16.0	20.6
5 21	18 7.81	-6 31.5	1.295	2.198	15.6	19.8	5 21	18 14.89	-35 30.0	1.683	2.579	13.0	20.3
5 31	18 1.48	-6 26.8	1.266	2.220	11.8	19.7	5 31	18 6.61	-36 12.5	1.619	2.574	9.6	20.1
6 10	17 53.32	-6 41.1	1.259	2.243	8.4	19.5	6 10	17 55.84	-36 43.1	1.579	2.569	6.4	19.9
6 20	17 44.42	-7 14.4	1.274	2.268	7.3	19.5	6 20	17 43.75	-36 57.1	1.565	2.564	5.4	19.9
6 30	17 36.07	-8 4.8	1.314	2.292	9.1	19.7	6 30	17 31.83	-36 52.9	1.577	2.558	7.6	20.0
7 10	17 29.37	-9 8.2	1.376	2.318	12.3	20.0	7 10	17 21.55	-36 32.9	1.613	2.551	11.1	20.2
7 20	17 25.04	-10 19.9	1.459	2.344	15.6	20.2	7 20	17 13.99	-36 1.6	1.672	2.544	14.5	20.4
505933	2015 FZ ₂₁		6 17.9 39°74	5°8/18.4	17		41657	2000 SN ₃₀₈		6 17.9 38°21	2°3/18.3	18	
5 11	18 11.96	-8 9.5	1.656	2.478	16.7	20.8	5 11	18 13.64	-30 59.7	2.039	2.862	13.9	19.1
5 21	18 7.98	-8 3.2	1.588	2.485	13.5	20.6	5 21	18 9.09	-30 54.3	1.962	2.867	11.0	18.9
5 31	18 1.56	-8 10.2	1.539	2.493	10.1	20.4	5 31	18 2.18	-30 42.4	1.907	2.873	7.6	18.7
6 10	17 53.39	-8 32.1	1.513	2.501	7.0	20.2	6 10	17 53.64	-30 22.3	1.877	2.879	4.1	18.5
6 20	17 44.38	-9 9.9	1.512	2.509	5.8	20.2	6 20	17 44.38	-29 53.4	1.873	2.884	2.4	18.4
6 30	17 35.65	-9 59.2	1.537	2.517	7.8	20.3	6 30	17 35.47	-29 17.0	1.897	2.891	5.2	18.6
7 10	17 28.23	-10 59.9	1.586	2.526	11.1	20.5	7 10	17 27.91	-28 35.8	1.946	2.897	8.7	18.8
7 20	17 22.90	-12 7.6	1.657	2.535	14.3	20.7	7 20	17 22.39	-27 53.0	2.020	2.904	11.9	19.1
174151	2002 PQ ₂₄		6 17.9 351°43	3°7/18.3	17		42933	1999 TR ₁₉		6 17.9 242°89	3°8/18.5	18	
5 11	18 14.42												

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
41758	2000 <i>VP</i> ₃₃		6 17.9 210°06	0°1/17.9	18		323021	2002 <i>PC</i> ₁₉₃		6 17.9 238°68	3°2/17.5	18	
5 11	18 17.32	-22 32.6	1.784	2.611	15.4	19.5	5 11	18 8.76	-13 41.3	2.764	3.574	11.0	21.2
5 21	18 12.35	-22 40.8	1.696	2.606	12.1	19.3	5 21	18 4.61	-13 10.9	2.673	3.569	8.8	21.0
5 31	18 4.65	-22 50.1	1.630	2.601	8.2	19.0	5 31	17 58.91	-12 44.3	2.606	3.563	6.3	20.8
6 10	17 54.88	-22 58.8	1.588	2.595	3.7	18.7	6 10	17 52.12	-12 22.4	2.564	3.558	4.0	20.7
6 20	17 44.02	-23 5.7	1.573	2.588	1.0	18.5	6 20	17 44.80	-12 6.5	2.550	3.552	3.3	20.6
6 30	17 33.30	-23 10.3	1.584	2.581	5.7	18.8	6 30	17 37.59	-11 57.2	2.565	3.546	5.1	20.7
7 10	17 23.95	-23 13.1	1.622	2.574	10.0	19.1	7 10	17 31.14	-11 54.9	2.607	3.540	7.6	20.9
7 20	17 16.87	-23 15.7	1.683	2.565	13.9	19.3	7 20	17 25.96	-11 59.3	2.673	3.534	10.1	21.0
335072	2004 <i>RS</i> ₂₉₀		6 17.9 247°17	2°2/17.8	18		470742	2008 <i>UJ</i> ₁₁₇		6 17.9 253°80	1°3/18.1	17	
5 11	18 13.83	-18 6.3	2.035	2.857	14.0	21.5	5 11	18 14.51	-27 23.3	1.909	2.737	14.5	21.4
5 21	18 9.28	-17 50.9	1.937	2.844	11.0	21.3	5 21	18 10.00	-27 23.2	1.823	2.733	11.4	21.2
5 31	18 2.42	-17 38.0	1.862	2.830	7.6	21.1	5 31	18 2.97	-27 19.5	1.759	2.729	7.7	21.0
6 10	17 53.83	-17 28.1	1.812	2.816	3.9	20.8	6 10	17 54.08	-27 10.5	1.720	2.725	3.7	20.7
6 20	17 44.30	-17 21.4	1.789	2.801	2.4	20.7	6 20	17 44.27	-26 55.2	1.707	2.721	1.6	20.5
6 30	17 34.84	-17 18.6	1.793	2.786	5.6	20.8	6 30	17 34.70	-26 34.2	1.721	2.717	5.3	20.8
7 10	17 26.44	-17 20.0	1.824	2.771	9.5	21.0	7 10	17 26.45	-26 9.5	1.761	2.713	9.3	21.0
7 20	17 19.90	-17 26.2	1.878	2.755	13.0	21.2	7 20	17 20.34	-25 43.7	1.824	2.709	12.9	21.2
350131	2011 <i>RK</i> ₃		6 17.9 127°85	3°9/17.9	18		488675	2003 <i>UU</i> ₁₉₈		6 17.9 286°34	2°1/17.8	18	
5 11	18 10.70	-8 55.9	2.876	3.669	11.1	21.6	5 11	18 14.25	-19 10.9	1.505	2.347	17.1	21.6
5 21	18 5.90	-8 45.4	2.802	3.683	8.9	21.5	5 21	18 10.65	-19 0.4	1.405	2.323	13.6	21.4
5 31	17 59.64	-8 42.1	2.752	3.697	6.6	21.3	5 31	18 3.97	-18 53.0	1.325	2.298	9.4	21.0
6 10	17 52.40	-8 46.6	2.727	3.710	4.6	21.2	6 10	17 54.77	-18 48.9	1.267	2.273	4.7	20.7
6 20	17 44.72	-8 59.4	2.731	3.723	4.0	21.2	6 20	17 44.04	-18 48.2	1.234	2.248	2.4	20.5
6 30	17 37.22	-9 20.2	2.763	3.736	5.3	21.3	6 30	17 33.16	-18 50.9	1.226	2.222	7.0	20.7
7 10	17 30.50	-9 48.0	2.823	3.748	7.4	21.5	7 10	17 23.63	-18 57.7	1.241	2.197	12.1	20.9
7 20	17 25.03	-10 21.8	2.908	3.760	9.6	21.6	7 20	17 16.61	-19 9.3	1.278	2.171	16.7	21.1
470351	2007 <i>RX</i> ₂₂₆		6 17.9 235°03	1°8/17.8	17		498214	2007 <i>TZ</i> ₄₃₇		6 17.9 39°92	4°1/17.9	17	
5 11	18 12.47	-18 27.4	2.138	2.961	13.4	22.0	5 11	18 16.42	-29 40.7	1.236	2.088	19.4	20.6
5 21	18 8.04	-18 19.6	2.048	2.955	10.5	21.8	5 21	18 12.77	-30 27.1	1.176	2.097	15.4	20.4
5 31	18 1.49	-18 14.5	1.980	2.948	7.2	21.6	5 31	18 5.43	-31 9.6	1.134	2.106	10.7	20.2
6 10	17 53.37	-18 12.2	1.938	2.942	3.6	21.3	6 10	17 55.34	-31 42.6	1.113	2.116	6.1	19.9
6 20	17 44.44	-18 12.7	1.922	2.935	2.0	21.2	6 20	17 43.94	-32 1.5	1.116	2.126	4.3	19.9
6 30	17 35.64	-18 16.1	1.934	2.928	5.2	21.4	6 30	17 33.05	-32 4.9	1.142	2.136	7.8	20.1
7 10	17 27.88	-18 22.7	1.973	2.921	8.8	21.6	7 10	17 24.33	-31 55.3	1.191	2.147	12.4	20.4
7 20	17 21.87	-18 32.7	2.035	2.914	12.1	21.8	7 20	17 18.84	-31 37.5	1.260	2.159	16.5	20.7
184797	2005 <i>TQ</i> ₈₅		6 17.9 73°91	3°4/17.5	16		121329	Getzandanner		6 17.9 299°17	0°8/18.1	18	
5 11	18 10.49	-14 54.6	2.242	3.062	12.9	20.5	5 11	18 12.79	-27 40.0	2.134	2.958	13.3	19.9
5 21	18 6.21	-14 18.6	2.166	3.068	10.2	20.4	5 21	18 8.48	-27 15.5	2.031	2.939	10.5	19.6
5 31	18 0.08	-13 46.3	2.113	3.075	7.2	20.2	5 31	18 1.89	-26 45.5	1.950	2.920	7.1	19.4
6 10	17 52.65	-13 19.3	2.084	3.081	4.4	20.0	6 10	17 53.59	-26 9.2	1.895	2.901	3.4	19.1
6 20	17 44.65	-12 58.8	2.083	3.088	3.5	20.0	6 20	17 44.41	-25 26.8	1.867	2.882	1.1	18.9
6 30	17 36.89	-12 45.8	2.110	3.094	5.7	20.1	6 30	17 35.36	-24 39.9	1.867	2.864	4.9	19.2
7 10	17 30.14	-12 40.8	2.162	3.101	8.7	20.3	7 10	17 27.43	-23 51.2	1.893	2.845	8.8	19.4
7 20	17 24.98	-12 43.5	2.238	3.107	11.5	20.5	7 20	17 21.40	-23 3.9	1.943	2.827	12.3	19.5
304744	2006 <i>XZ</i> ₇₁		6 17.9 172°34	1°2/18.0	18		502432	2015 <i>BB</i> ₂₆₉		6 17.9 203°36	0°8/17.9	17	
5 11	18 12.63	-27 34.6	2.624	3.437	11.4	21.7	5 11	18 17.90	-26 1.4	2.024	2.842	14.2	22.1
5 21	18 7.80	-27 39.5	2.537	3.439	8.9	21.5	5 21	18 12.48	-25 58.8	1.934	2.838	11.1	21.9
5 31	18 1.11	-27 41.7	2.474	3.440	6.0	21.3	5 31	18 4.56	-25 53.4	1.865	2.833	7.5	21.7
6 10	17 53.13	-27 39.7	2.437	3.441	3.0	21.1	6 10	17 54.79	-25 43.7	1.822	2.827	3.5	21.4
6 20	17 44.52	-27 32.9	2.429	3.442	1.4	21.0	6 20	17 44.09	-25 28.9	1.806	2.821	1.2	21.2
6 30	17 36.10	-27 21.4	2.449	3.443	4.2	21.2	6 30	17 33.59	-25 9.3	1.818	2.814	5.2	21.5
7 10	17 28.64	-27 6.3	2.496	3.444	7.2	21.4	7 10	17 24.37	-24 46.8	1.857	2.806	9.2	21.7
7 20	17 22.73	-26 49.3	2.569	3.444	10.0	21.6	7 20	17 17.24	-24 24.0	1.920	2.797	12.7	21.9
389689	2011 <i>QH</i> ₃₄		6 17.9 353°74	0°7/17.9	17		259364	2003 <i>HU</i> ₃		6 17.9 142°35	5°8/16.9	18	
5 11	18 11.23	-21 30.3	1.751	2.590	15.2	20.9	5 11	18 10.25	-7 5.0	2.491	3.287	12.5	20.7
5 21	18 7.55	-21 28.9	1.671	2.588	11.9	20.7	5 21	18 5.81	-6 7.8	2.414	3.292	10.3	20.6
5 31	18 1.38	-21 28.8	1.612	2.586	8.0	20.5	5 31	17 59.72	-5 17.8	2.360	3.296	8.0	20.4
6 10	17 53.37	-21 29.6	1.577	2.584	3.7	20.2	6 10	17 52.48	-4 37.9	2.331	3.301	6.2	20.3
6 20	17 44.45	-21 30.5	1.568	2.583	1.2	20.0	6 20	17 44.73	-4 10.1	2.329	3.305	5.9	20.3
6 30	17 35.74	-21 31.7	1.585	2.583	5.5	20.3	6 30	17 37.18	-3 55.6	2.354	3.309	7.2	20.4
7 10	17 28.34	-21 33.8	1.627	2.583	9.7	20.6	7 10	17 30.49	-3 54.6	2.405	3.313	9.3	20.5
7 20	17 23.04	-21 37.5	1.691	2.583	13.4	20.8	7 20	17 25.21	-4 5.8	2.479	3.317	11.5	20.7
276468	2003 <i>HQ</i> ₃₂		6 17.9 82°36	2°1/16.9	18		186383	2002 <i>JX</i> ₄₀		6 17.9 60°47	4°4/17.4	18	
5 11	18 29.08	+15 20.9	1.277	1.997	25.6	21.2	5 11	18 10.48	-12 12.1	2.151	2.968	13.5	19.7
5 21	18 21.16	+19 18.9	1.270	2.038	23.6	21.2	5 21	18 6.18	-11 28.3	2.086	2.984	10.8	19.5
5 31	18 10.10	+22 35.3	1.280	2.078	22.1	21.2	5 31	18 0.02	-10 50.4	2.044	3.000	7.8	19.4
6 10	17 57.08	+24 57.8	1.309	2.118	21.3	21.3	6 10	17 52.62	-10 20.4	2.026	3.016	5.2	19.3
6 20	17 43.55	+26 20.7	1.356	2.156	21.1	21.4	6 20	17 44.70	-9 59.9	2.035	3.032	4.5	19.2
6 30	17 31.09	+26 45.4	1.419	2.192	21.5	21.5	6 30	17 37.10	-9 49.8	2.071	3.048	6.4	19.4
7 10	17 20.96	+26 20.4	1.496	2.228	22.3	21.7	7 10	17 30.56	-9 50.0	2.132	3.064	9.1	19.6
7 20	17 13.85	+25 17.2	1.586	2.262	23.1	21.9	7 20	17 25.65	-9 59.8	2.217	3.081	11.8	19.8
386330	2008 <i>SR</i> ₁₇₀		6 17.9 251°91	1°9/17.7	17		43125	1999 <i>XQ</i> ₆₁ </					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
156471	2002 <i>CE</i> ₄₀		6 17.9 118°81	4°0/17.4	17		238698	2005 <i>EM</i> ₂₈₈		6 17.9 131°63	0°2/17.9	18	
5 11	18 14.40	-14 25.9	1.975	2.793	14.5	20.0	5 11	18 15.47	-21 1.2	2.377	3.189	12.5	20.8
5 21	18 9.41	-13 40.4	1.904	2.805	11.5	19.8	5 21	18 10.07	-21 26.3	2.300	3.202	9.7	20.7
5 31	18 2.27	-12 59.2	1.856	2.816	8.2	19.7	5 31	18 2.67	-21 53.6	2.248	3.215	6.5	20.5
6 10	17 53.67	-12 24.3	1.833	2.828	5.1	19.5	6 10	17 53.87	-22 21.4	2.222	3.228	2.9	20.3
6 20	17 44.43	-11 57.3	1.836	2.839	4.2	19.5	6 20	17 44.41	-22 48.4	2.224	3.239	0.8	20.1
6 30	17 35.53	-11 39.9	1.867	2.849	6.5	19.6	6 30	17 35.16	-23 13.4	2.255	3.251	4.4	20.4
7 10	17 27.87	-11 32.4	1.923	2.859	9.7	19.8	7 10	17 26.96	-23 36.1	2.315	3.262	7.7	20.6
7 20	17 22.08	-11 34.5	2.003	2.869	12.7	20.0	7 20	17 20.44	-23 57.0	2.399	3.272	10.6	20.8
320587	2008 <i>BW</i> ₁₈		6 17.9 166°59	3°8/17.9	17		358357	2006 <i>WL</i> ₁₂₃		6 17.9 95°05	3°0/18.0	17	
5 11	18 15.68	-13 50.4	1.804	2.625	15.6	21.3	5 11	18 10.63	-13 17.2	2.402	3.214	12.4	21.5
5 21	18 10.77	-13 35.2	1.726	2.628	12.4	21.1	5 21	18 6.24	-13 14.8	2.325	3.222	9.8	21.3
5 31	18 3.42	-13 26.7	1.669	2.631	8.8	20.9	5 31	18 0.09	-13 18.4	2.271	3.230	6.9	21.1
6 10	17 54.27	-13 26.1	1.636	2.634	5.2	20.7	6 10	17 52.70	-13 28.6	2.242	3.238	4.1	21.0
6 20	17 44.26	-13 33.7	1.630	2.636	3.9	20.6	6 20	17 44.73	-13 45.1	2.241	3.246	3.1	20.9
6 30	17 34.47	-13 49.5	1.650	2.638	6.6	20.8	6 30	17 36.94	-14 7.7	2.267	3.254	5.2	21.1
7 10	17 25.98	-14 12.7	1.696	2.639	10.3	21.0	7 10	17 30.08	-14 35.4	2.321	3.262	8.0	21.3
7 20	17 19.56	-14 42.2	1.765	2.640	13.8	21.2	7 20	17 24.70	-15 7.3	2.399	3.270	10.7	21.4
128905	2004 <i>TM</i> ₂₁		6 17.9 198°45	5°7/17.8	18		193539	2000 <i>YJ</i> ₁₁₃		6 17.9 263°53	2°8/18.1	18	
5 11	18 12.71	-6 56.2	2.255	3.051	13.6	20.9	5 11	18 14.29	-14 11.3	2.049	2.864	14.1	20.0
5 21	18 7.99	-6 28.0	2.169	3.049	11.2	20.7	5 21	18 9.74	-14 24.0	1.945	2.845	11.3	19.8
5 31	18 1.34	-6 9.2	2.105	3.046	8.6	20.5	5 31	18 2.85	-14 44.6	1.863	2.826	7.9	19.6
6 10	17 53.28	-6 1.8	2.066	3.042	6.4	20.4	6 10	17 54.12	-15 13.1	1.806	2.806	4.4	19.3
6 20	17 44.52	-6 7.3	2.053	3.038	5.8	20.3	6 20	17 44.32	-15 49.0	1.776	2.786	2.9	19.2
6 30	17 35.89	-6 26.0	2.067	3.033	7.3	20.4	6 30	17 34.43	-16 30.8	1.774	2.765	5.8	19.3
7 10	17 28.20	-6 56.7	2.108	3.028	9.8	20.6	7 10	17 25.49	-17 17.1	1.799	2.744	9.6	19.5
7 20	17 22.10	-7 37.6	2.171	3.022	12.4	20.7	7 20	17 18.36	-18 6.3	1.847	2.723	13.2	19.7
127748	2003 <i>FN</i> ₁₆		6 17.9 84°67	3°0/17.9	18		300818	2007 <i>WJ</i> ₄₄		6 17.9 133°65	0°4/17.9	18	
5 11	18 19.36	-27 55.6	1.356	2.198	18.6	20.0	5 11	18 13.00	-24 40.6	2.505	3.320	11.9	21.8
5 21	18 14.68	-28 37.2	1.294	2.210	14.6	19.8	5 21	18 8.10	-24 45.3	2.425	3.329	9.2	21.6
5 31	18 6.52	-29 16.7	1.251	2.223	10.0	19.6	5 31	18 1.33	-24 49.0	2.369	3.337	6.1	21.5
6 10	17 55.79	-29 49.0	1.231	2.235	5.3	19.3	6 10	17 53.26	-24 50.5	2.340	3.346	2.8	21.3
6 20	17 43.87	-30 10.1	1.235	2.247	3.2	19.2	6 20	17 44.59	-24 49.1	2.338	3.353	0.8	21.1
6 30	17 32.44	-30 18.5	1.264	2.259	7.1	19.5	6 30	17 36.15	-24 45.0	2.365	3.361	4.2	21.4
7 10	17 23.06	-30 16.3	1.317	2.271	11.7	19.8	7 10	17 28.71	-24 39.0	2.420	3.368	7.3	21.6
7 20	17 16.73	-30 7.2	1.391	2.283	15.7	20.1	7 20	17 22.85	-24 32.2	2.499	3.375	10.2	21.8
100601	1997 <i>RF</i> ₄		6 17.9 319°72	4°8/17.8	18		228604	2002 <i>AC</i> ₁₇₈		6 17.9 195°66	1°6/17.9	18	
5 11	18 13.11	-32 42.9	1.712	2.544	15.7	18.8	5 11	18 14.94	-18 11.6	2.320	3.133	12.8	21.8
5 21	18 9.68	-33 32.5	1.620	2.528	12.7	18.5	5 21	18 9.79	-18 12.4	2.229	3.130	10.0	21.6
5 31	18 3.24	-34 18.2	1.549	2.512	9.3	18.3	5 31	18 2.59	-18 16.3	2.161	3.127	6.8	21.4
6 10	17 54.40	-34 54.9	1.501	2.496	6.0	18.0	6 10	17 53.89	-18 23.0	2.119	3.123	3.4	21.1
6 20	17 44.19	-35 18.2	1.478	2.481	4.9	17.9	6 20	17 44.42	-18 32.1	2.105	3.118	1.8	21.0
6 30	17 33.98	-35 25.8	1.481	2.467	7.4	18.1	6 30	17 35.08	-18 43.2	2.120	3.113	4.9	21.2
7 10	17 25.21	-35 19.0	1.507	2.453	11.1	18.2	7 10	17 26.72	-18 56.4	2.162	3.107	8.3	21.4
7 20	17 18.96	-35 1.1	1.555	2.439	14.8	18.4	7 20	17 20.03	-19 11.8	2.229	3.101	11.4	21.6
289271	2004 <i>XA</i> ₁₄₄		6 17.9 156°03	3°4/17.9	18		116138	2003 <i>WK</i> ₁₄₅		6 17.9 217°18	0°2/17.9	18	
5 11	18 13.34	-12 40.5	2.327	3.135	12.9	21.3	5 11	18 13.45	-22 44.1	2.111	2.935	13.5	20.8
5 21	18 8.39	-12 33.7	2.247	3.141	10.3	21.1	5 21	18 8.89	-22 44.7	2.023	2.931	10.5	20.6
5 31	18 1.54	-12 33.3	2.190	3.147	7.3	20.9	5 31	18 2.11	-22 45.5	1.958	2.928	7.1	20.4
6 10	17 53.35	-12 40.0	2.158	3.152	4.5	20.8	6 10	17 53.71	-22 45.6	1.918	2.924	3.2	20.2
6 20	17 44.53	-12 53.8	2.153	3.157	3.5	20.7	6 20	17 44.49	-22 44.4	1.905	2.921	0.9	20.0
6 30	17 35.89	-13 14.4	2.177	3.162	5.5	20.8	6 30	17 35.44	-22 41.8	1.920	2.917	4.9	20.3
7 10	17 28.22	-13 41.1	2.228	3.166	8.5	21.0	7 10	17 27.50	-22 38.6	1.961	2.912	8.6	20.5
7 20	17 22.14	-14 12.6	2.304	3.169	11.3	21.2	7 20	17 21.41	-22 36.0	2.027	2.908	12.0	20.7
41397	2000 <i>AS</i> ₁₇₅		6 17.9 260°39	3°1/17.3	18		391512	2007 <i>RJ</i> ₉₆		6 17.9 194°89	5°5/17.9	18	
5 11	18 10.27	-16 2.6	2.493	3.309	11.9	18.1	5 11	18 19.02	-39 59.3	2.644	3.425	12.2	22.1
5 21	18 5.95	-15 18.0	2.402	3.303	9.4	17.9	5 21	18 13.23	-40 49.9	2.555	3.423	10.1	22.0
5 31	17 59.90	-14 35.0	2.335	3.297	6.6	17.7	5 31	18 5.04	-41 32.7	2.489	3.420	7.9	21.8
6 10	17 52.61	-13 55.4	2.293	3.290	4.0	17.6	6 10	17 55.06	-42 3.3	2.449	3.416	6.1	21.7
6 20	17 44.72	-13 20.6	2.279	3.284	3.2	17.5	6 20	17 44.14	-42 18.6	2.435	3.412	5.6	21.6
6 30	17 36.99	-12 52.3	2.294	3.278	5.3	17.6	6 30	17 33.34	-42 17.4	2.450	3.408	6.7	21.7
7 10	17 30.14	-12 31.4	2.335	3.271	8.2	17.8	7 10	17 23.70	-42 1.2	2.490	3.403	8.8	21.8
7 20	17 24.73	-12 18.5	2.401	3.265	11.0	18.0	7 20	17 16.02	-41 33.3	2.555	3.397	11.1	22.0
84927	2003 <i>WT</i> ₉		6 17.9 201°85	0°2/17.9	18		62943	2000 <i>VY</i> ₂₅		6 17.9 339°90	4°7/17.7	18	
5 11	18 15.04	-24 42.2	2.371	3.185	12.5	19.7	5 11	18 13.33	-33 13.4	1.911	2.736	14.7	18.7
5 21	18 9.80	-24 15.2	2.279	3.182	9.7	19.5	5 21	18 9.46	-34 7.8	1.827	2.729	11.8	18.5
5 31	18 2.52	-23 45.1	2.210	3.178	6.5	19.3	5 31	18 2.87	-34 57.9	1.764	2.723	8.6	18.3
6 10	17 53.80	-23 11.7	2.167	3.174	3.0	19.1	6 10	17 54.18	-35 39.1	1.726	2.718	5.7	18.1
6 20	17 44.41	-22 35.5	2.153	3.169	0.8	18.9	6 20	17 44.36	-36 7.3	1.713	2.713	4.8	18.0
6 30	17 35.24	-21 58.1	2.168	3.164	4.5	19.2	6 30	17 34.65	-36 20.7	1.726	2.709	6.9	18.2
7 10	17 27.15	-21 21.3	2.211	3.158	8.0	19.4	7 10	17 26.27	-36 20.3	1.764	2.705	10.1	18.3
7 20	17 20.77	-20 47.4	2.279	3.152	11.1	19.6	7 20	17 20.18	-36 9.0	1.825	2.701	13.3	18.5
82672	2001 <i>PQ</i> ₂₁		6 17.9 155°53	0°6/17.9	18		497646	2					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
333476	2004 RA ₃₂₃		6 17.9 289°43	2°2/18.0	18		426341	2013 FD ₁₆		6 17.9 332°97	4°3/17.7	17	
5 11	18 15.78	-28 18.2	1.818	2.646	15.2	21.6	5 11	18 10.06	-28 0.1	1.050	1.923	20.5	20.5
5 21	18 11.62	-28 32.2	1.706	2.615	12.1	21.3	5 21	18 8.77	-28 57.2	0.973	1.907	16.4	20.2
5 31	18 4.54	-28 43.2	1.615	2.583	8.4	21.0	5 31	18 3.49	-29 55.5	0.914	1.892	11.6	19.9
6 10	17 55.06	-28 48.4	1.547	2.551	4.4	20.7	6 10	17 54.86	-30 49.1	0.874	1.879	6.5	19.6
6 20	17 44.11	-28 45.3	1.505	2.519	2.4	20.5	6 20	17 44.20	-31 31.2	0.855	1.866	4.6	19.4
6 30	17 32.98	-28 32.9	1.490	2.486	6.2	20.6	6 30	17 33.53	-31 57.3	0.857	1.855	8.9	19.6
7 10	17 23.04	-28 12.7	1.501	2.453	10.7	20.8	7 10	17 24.94	-32 7.4	0.879	1.845	14.4	19.9
7 20	17 15.42	-27 48.0	1.533	2.419	14.9	21.0	7 20	17 19.95	-32 5.3	0.919	1.836	19.5	20.1
318563	2005 GD ₁₁₇		6 17.9 357°48	2°3/18.0	17		498502	2008 DG ₈		6 17.9 212°58	3°1/17.8	17	
5 11	18 9.32	-27 13.7	1.094	1.966	20.0	20.4	5 11	18 15.15	-16 12.0	1.774	2.600	15.6	22.1
5 21	18 7.63	-27 30.8	1.027	1.961	15.8	20.1	5 21	18 10.56	-15 55.4	1.689	2.596	12.3	21.8
5 31	18 2.27	-27 44.7	0.978	1.958	10.8	19.8	5 31	18 3.43	-15 43.6	1.625	2.591	8.6	21.6
6 10	17 54.07	-27 52.3	0.949	1.956	5.4	19.5	6 10	17 54.40	-15 37.3	1.585	2.587	4.7	21.4
6 20	17 44.42	-27 51.0	0.941	1.955	2.6	19.3	6 20	17 44.39	-15 36.9	1.571	2.581	3.2	21.3
6 30	17 35.13	-27 40.5	0.955	1.956	7.5	19.6	6 30	17 34.54	-15 42.9	1.585	2.576	6.4	21.4
7 10	17 27.92	-27 23.3	0.991	1.958	12.9	19.9	7 10	17 25.97	-15 55.1	1.623	2.570	10.4	21.7
7 20	17 23.93	-27 3.4	1.045	1.962	17.6	20.2	7 20	17 19.52	-16 13.2	1.684	2.564	14.1	21.9
499421	2010 CF ₇₈		6 17.9 178°74	1°5/18.1	18		472071	2013 YW ₈₉		6 17.9 276°07	1°8/17.9	18	
5 11	18 16.23	-27 56.0	2.423	3.234	12.4	22.6	5 11	18 12.69	-17 53.4	1.920	2.748	14.5	20.7
5 21	18 10.79	-28 5.7	2.336	3.235	9.7	22.4	5 21	18 8.52	-17 59.5	1.833	2.742	11.4	20.5
5 31	18 3.24	-28 12.3	2.272	3.237	6.6	22.2	5 31	18 2.01	-18 10.3	1.768	2.737	7.8	20.3
6 10	17 54.20	-28 14.1	2.234	3.237	3.3	22.0	6 10	17 53.74	-18 25.3	1.727	2.731	3.9	20.0
6 20	17 44.42	-28 9.9	2.224	3.237	1.7	21.9	6 20	17 44.56	-18 43.9	1.712	2.726	2.0	19.9
6 30	17 34.84	-27 59.6	2.243	3.237	4.6	22.1	6 30	17 35.48	-19 5.3	1.725	2.721	5.5	20.1
7 10	17 26.35	-27 44.6	2.290	3.236	7.8	22.3	7 10	17 27.55	-19 28.9	1.764	2.715	9.4	20.3
7 20	17 19.62	-27 27.0	2.361	3.234	10.8	22.5	7 20	17 21.54	-19 54.5	1.826	2.710	12.9	20.5
215224	2000 WX ₁₃₁		6 17.9 158°16	0°9/17.9	18		504874	2010 VX ₅₃		6 17.9 292°54	1°2/17.9	17	
5 11	18 19.22	-24 12.9	1.875	2.695	15.1	20.9	5 11	18 14.77	-24 3.0	1.453	2.298	17.4	21.9
5 21	18 13.65	-24 39.2	1.796	2.702	11.8	20.6	5 21	18 11.33	-24 32.6	1.359	2.279	13.8	21.6
5 31	18 5.44	-25 6.0	1.740	2.709	7.9	20.4	5 31	18 4.61	-25 4.8	1.285	2.259	9.4	21.3
6 10	17 55.27	-25 30.8	1.709	2.714	3.7	20.2	6 10	17 55.19	-25 36.9	1.233	2.240	4.4	21.0
6 20	17 44.14	-25 51.0	1.704	2.720	1.3	20.0	6 20	17 44.14	-26 5.5	1.205	2.220	1.7	20.7
6 30	17 33.26	-26 5.7	1.728	2.724	5.4	20.3	6 30	17 32.96	-26 28.1	1.203	2.201	6.8	21.0
7 10	17 23.78	-26 15.3	1.778	2.728	9.5	20.6	7 10	17 23.26	-26 44.6	1.223	2.182	11.9	21.3
7 20	17 16.55	-26 21.4	1.852	2.731	13.0	20.8	7 20	17 16.30	-26 56.4	1.265	2.163	16.6	21.5
406562	2007 YQ ₆₁		6 17.9 210°98	10°4/16.3	17		506186	2016 GJ ₉₅		6 17.9 340°77	2°1/17.9	17	
5 11	18 15.23	+ 4 41.4	2.218	2.965	15.2	21.6	5 11	18 13.56	-25 14.4	1.300	2.155	18.5	21.2
5 21	18 10.03	+ 6 0.1	2.134	2.957	13.5	21.5	5 21	18 10.53	-25 54.4	1.225	2.149	14.6	20.9
5 31	18 2.79	+ 7 4.5	2.070	2.947	11.8	21.3	5 31	18 4.07	-26 36.2	1.168	2.144	9.9	20.6
6 10	17 54.03	+ 7 49.6	2.029	2.937	10.7	21.2	6 10	17 54.90	-27 16.0	1.132	2.139	4.9	20.3
6 20	17 44.47	+ 8 11.3	2.012	2.926	10.5	21.2	6 20	17 44.26	-27 49.4	1.121	2.135	2.4	20.2
6 30	17 35.00	+ 8 7.7	2.020	2.914	11.5	21.3	6 30	17 33.77	-28 13.8	1.133	2.131	7.1	20.4
7 10	17 26.48	+ 7 39.9	2.051	2.900	13.1	21.3	7 10	17 25.08	-28 29.5	1.168	2.128	12.1	20.7
7 20	17 19.60	+ 6 51.1	2.103	2.886	15.1	21.5	7 20	17 19.35	-28 38.5	1.223	2.126	16.6	21.0
255320	2005 WR ₂₇		6 17.9 275°66	0°7/17.9	18		500126	2012 CB ₁₆		6 17.9 45°28	0°8/18.0	17	
5 11	18 11.91	-25 32.2	2.386	3.207	12.2	21.1	5 11	18 15.39	-25 17.1	1.292	2.144	18.7	21.2
5 21	18 7.60	-25 37.0	2.285	3.191	9.6	20.8	5 21	18 11.53	-25 17.3	1.233	2.156	14.6	20.9
5 31	18 1.24	-25 40.4	2.206	3.175	6.5	20.6	5 31	18 4.37	-25 15.5	1.192	2.168	9.8	20.7
6 10	17 53.36	-25 41.1	2.153	3.159	3.0	20.4	6 10	17 54.87	-25 9.7	1.173	2.181	4.5	20.4
6 20	17 44.65	-25 38.1	2.128	3.143	1.0	20.2	6 20	17 44.34	-24 58.9	1.178	2.194	1.3	20.2
6 30	17 35.99	-25 31.5	2.131	3.127	4.5	20.4	6 30	17 34.38	-24 43.9	1.208	2.207	6.5	20.6
7 10	17 28.27	-25 22.1	2.161	3.111	8.0	20.6	7 10	17 26.40	-24 27.1	1.260	2.221	11.4	20.9
7 20	17 22.19	-25 11.4	2.215	3.095	11.1	20.8	7 20	17 21.28	-24 11.1	1.334	2.235	15.6	21.2
366705	2003 WQ ₈₈		6 17.9 151°88	1°6/17.8	17		197947	2004 RZ ₈₀		6 17.9 259°29	1°4/18.0	18	
5 11	18 17.36	-21 8.6	1.791	2.617	15.4	21.3	5 11	18 15.21	-26 37.8	1.900	2.727	14.6	21.0
5 21	18 12.12	-20 40.5	1.715	2.623	12.1	21.1	5 21	18 10.75	-26 49.6	1.806	2.715	11.5	20.8
5 31	18 4.33	-20 12.1	1.660	2.629	8.1	20.9	5 31	18 3.66	-26 59.4	1.734	2.703	7.9	20.5
6 10	17 54.73	-19 43.7	1.630	2.635	3.9	20.6	6 10	17 54.57	-27 5.0	1.685	2.691	3.8	20.2
6 20	17 44.31	-19 16.2	1.626	2.640	1.9	20.5	6 20	17 44.39	-27 4.8	1.664	2.678	1.7	20.1
6 30	17 34.25	-18 51.0	1.650	2.645	5.8	20.8	6 30	17 34.29	-26 58.2	1.669	2.665	5.5	20.3
7 10	17 25.62	-18 29.9	1.700	2.649	9.9	21.0	7 10	17 25.46	-26 46.7	1.700	2.652	9.6	20.5
7 20	17 19.20	-18 14.3	1.773	2.652	13.5	21.2	7 20	17 18.78	-26 32.6	1.754	2.639	13.3	20.7
86201	1999 TD ₁		6 17.9 315°12	11°5/14.6	18		56836	2000 QK ₃₉		6 17.9 306°70	4°2/18.4	18	
5 11	18 8.21	+ 4 28.3	2.053	2.822	15.6	19.0	5 11	18 14.89	-35 13.9	2.085	2.898	14.0	19.7
5 21	18 4.82	+ 6 12.8	1.970	2.805	14.0	18.8	5 21	18 10.36	-35 31.5	1.998	2.893	11.3	19.5
5 31	17 59.42	+ 7 43.8	1.908	2.789	12.5	18.7	5 31	18 3.28	-35 41.2	1.932	2.887	8.3	19.3
6 10	17 52.54	+ 8 55.1	1.868	2.773	11.6	18.6	6 10	17 54.34	-35 39.6	1.891	2.882	5.4	19.1
6 20	17 44.86	+ 9 41.4	1.850	2.757	11.6	18.5	6 20	17 44.47	-35 24.6	1.876	2.877	4.3	19.0
6 30	17 37.24	+ 9 59.8	1.855	2.742	12.7	18.6	6 30	17 34.85	-34 56.3	1.887	2.872	6.2	19.2
7 10	17 30.54	+ 9 50.6	1.880	2.727	14.3	18.7	7 10	17 26.57	-34 17.3	1.924	2.867	9.3	19.3
7 20	17 25.44	+ 9 16.5	1.925	2.712	16.2	18.8	7 20	17 20.45	-33 31.6	1.985	2.862	12.4	19.5
85599	1998 FX ₈₇		6 17.9 59°78	1°5/17.9	18		94678	2001 XB ₂₃		6 17.9 265°52	2°8/17.9	18	

EPHEMERIDES

6 17.9

6 17.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
466644	2014 WY ₅₁		6 17.9 319°58	1°8/18.0	17		260474	2005 BN ₄₈		6 17.9 146°32	1°2/17.9	17	
5 11	18 14.43	-26 44.1	1.318	2.170	18.4	21.1	5 11	18 18.04	-20 34.4	1.782	2.607	15.6	21.5
5 21	18 11.18	-26 57.8	1.239	2.162	14.6	20.9	5 21	18 12.72	-20 27.5	1.708	2.616	12.2	21.3
5 31	18 4.49	-27 9.3	1.179	2.154	10.0	20.6	5 31	18 4.81	-20 22.2	1.655	2.624	8.2	21.1
6 10	17 55.10	-27 15.5	1.140	2.147	4.9	20.3	6 10	17 55.04	-20 17.9	1.626	2.632	3.9	20.8
6 20	17 44.27	-27 14.0	1.125	2.140	2.1	20.1	6 20	17 44.42	-20 14.3	1.624	2.639	1.6	20.7
6 30	17 33.64	-27 4.2	1.134	2.133	7.0	20.3	6 30	17 34.12	-20 11.6	1.650	2.646	5.6	21.0
7 10	17 24.84	-26 48.4	1.166	2.127	12.1	20.6	7 10	17 25.26	-20 10.6	1.701	2.652	9.8	21.2
7 20	17 19.01	-26 30.2	1.218	2.121	16.7	20.9	7 20	17 18.64	-20 12.3	1.776	2.657	13.4	21.4
102222	1999 TA ₁₂		6 17.9 309°65	1°6/17.9	18		476615	2008 SJ ₁₄₂		6 17.9 237°56	0°3/17.9	17	
5 11	18 11.48	-21 8.4	1.304	2.161	18.3	19.4	5 11	18 14.41	-23 32.5	2.023	2.848	13.9	22.1
5 21	18 9.00	-20 52.5	1.208	2.135	14.6	19.1	5 21	18 9.88	-23 43.0	1.932	2.841	10.9	21.9
5 31	18 3.19	-20 37.4	1.131	2.109	10.0	18.7	5 31	18 2.96	-23 53.9	1.864	2.834	7.3	21.6
6 10	17 54.62	-20 23.1	1.075	2.083	4.8	18.4	6 10	17 54.25	-24 3.6	1.820	2.826	3.4	21.4
6 20	17 44.36	-20 9.9	1.042	2.057	2.0	18.1	6 20	17 44.61	-24 10.8	1.803	2.819	0.9	21.2
6 30	17 33.95	-19 58.6	1.033	2.032	7.4	18.3	6 30	17 35.07	-24 15.2	1.814	2.811	5.1	21.5
7 10	17 25.06	-19 50.9	1.045	2.008	13.0	18.6	7 10	17 26.69	-24 17.3	1.851	2.803	9.0	21.7
7 20	17 18.98	-19 48.6	1.077	1.984	18.1	18.8	7 20	17 20.26	-24 18.3	1.912	2.795	12.5	21.9
146321	2001 LA ₆		6 17.9 279°22	6°4/17.9	18		368670	2005 NU		6 17.9 280°75	0°5/17.9	18	
5 11	18 13.90	- 8 2.6	1.739	2.553	16.3	19.4	5 11	18 7.88	-21 23.7	3.201	4.014	9.6	21.2
5 21	18 9.89	- 7 39.2	1.635	2.527	13.5	19.2	5 21	18 3.93	-21 21.4	3.096	3.999	7.5	21.0
5 31	18 3.24	- 7 27.1	1.551	2.501	10.3	18.9	5 31	17 58.54	-21 19.7	3.016	3.983	5.0	20.8
6 10	17 54.48	- 7 29.2	1.491	2.475	7.4	18.7	6 10	17 52.12	-21 18.2	2.962	3.968	2.3	20.6
6 20	17 44.42	- 7 47.6	1.454	2.448	6.5	18.6	6 20	17 45.16	-21 16.7	2.937	3.952	0.8	20.5
6 30	17 34.19	- 8 22.8	1.444	2.421	8.7	18.6	6 30	17 38.25	-21 15.5	2.941	3.936	3.5	20.7
7 10	17 25.00	- 9 13.3	1.458	2.393	12.3	18.7	7 10	17 31.97	-21 14.7	2.973	3.921	6.2	20.8
7 20	17 17.85	-10 16.0	1.494	2.365	16.0	18.9	7 20	17 26.80	-21 14.9	3.031	3.905	8.6	21.0
502350	2015 BS ₂₀₃		6 17.9 249°82	2°6/17.8	17		385187	1995 SL ₁₉		6 17.9 232°69	1°5/18.0	16	
5 11	18 16.16	-17 26.9	1.835	2.659	15.2	22.7	5 11	18 15.96	-27 24.0	2.270	3.085	13.0	22.9
5 21	18 11.49	-17 12.3	1.735	2.641	12.1	22.4	5 21	18 10.93	-27 38.3	2.171	3.073	10.2	22.7
5 31	18 4.20	-17 1.3	1.656	2.623	8.4	22.2	5 31	18 3.60	-27 50.2	2.094	3.060	7.0	22.5
6 10	17 54.86	-16 54.2	1.601	2.604	4.4	21.9	6 10	17 54.54	-27 57.8	2.044	3.047	3.5	22.2
6 20	17 44.35	-16 51.3	1.572	2.584	2.8	21.7	6 20	17 44.54	-27 59.4	2.020	3.034	1.7	22.1
6 30	17 33.81	-16 53.2	1.571	2.564	6.3	21.9	6 30	17 34.60	-27 54.6	2.026	3.020	4.9	22.2
7 10	17 24.42	-17 0.1	1.595	2.543	10.5	22.1	7 10	17 25.73	-27 44.5	2.058	3.005	8.5	22.4
7 20	17 17.14	-17 12.4	1.643	2.521	14.4	22.3	7 20	17 18.70	-27 31.0	2.114	2.990	11.8	22.6
222672	2001 YS ₂₁		6 17.9 206°53	0°7/17.9	17		153754	2001 UR ₁₉₆		6 17.9 181°62	4°2/17.6	18	
5 11	18 16.52	-24 48.2	2.211	3.027	13.2	21.8	5 11	18 13.74	-14 3.2	1.846	2.669	15.2	20.3
5 21	18 11.29	-25 1.8	2.118	3.022	10.4	21.6	5 21	18 9.28	-13 27.8	1.766	2.669	12.1	20.1
5 31	18 3.78	-25 14.7	2.048	3.016	7.0	21.4	5 31	18 2.49	-12 57.4	1.708	2.669	8.6	19.9
6 10	17 54.56	-25 25.3	2.003	3.009	3.2	21.1	6 10	17 54.00	-12 34.1	1.673	2.669	5.4	19.7
6 20	17 44.45	-25 32.1	1.987	3.002	1.1	20.9	6 20	17 44.69	-12 19.4	1.665	2.669	4.3	19.6
6 30	17 34.45	-25 34.7	1.998	2.994	4.8	21.2	6 30	17 35.61	-12 14.3	1.684	2.668	6.8	19.8
7 10	17 25.54	-25 33.6	2.037	2.986	8.5	21.4	7 10	17 27.74	-12 18.9	1.727	2.668	10.3	20.0
7 20	17 18.51	-25 30.5	2.101	2.977	11.8	21.6	7 20	17 21.85	-12 32.7	1.793	2.667	13.6	20.2
357770	2005 SE ₁₆₀		6 17.9 142°14	5°3/17.4	18		300941	2008 CE ₁₅₅		6 17.9 216°87	5°0/18.0	18	
5 11	18 9.93	- 5 17.9	2.917	3.699	11.2	22.4	5 11	18 11.20	- 6 2.7	2.719	3.504	11.8	21.1
5 21	18 5.35	- 4 35.8	2.842	3.709	9.2	22.2	5 21	18 6.59	- 5 47.7	2.625	3.497	9.7	21.0
5 31	17 59.36	- 4 1.4	2.790	3.718	7.3	22.1	5 31	18 0.37	- 5 41.6	2.554	3.489	7.5	20.8
6 10	17 52.41	- 3 36.8	2.764	3.727	5.7	22.0	6 10	17 52.97	- 5 45.9	2.508	3.480	5.6	20.7
6 20	17 45.04	- 3 23.3	2.766	3.736	5.4	22.0	6 20	17 44.96	- 6 1.4	2.489	3.472	5.1	20.6
6 30	17 37.84	- 3 21.7	2.795	3.744	6.4	22.1	6 30	17 37.01	- 6 28.0	2.499	3.462	6.3	20.7
7 10	17 31.38	- 3 31.4	2.850	3.752	8.2	22.2	7 10	17 29.80	- 7 4.7	2.535	3.453	8.5	20.8
7 20	17 26.12	- 3 51.2	2.930	3.760	10.1	22.4	7 20	17 23.87	- 7 49.7	2.596	3.443	10.8	20.9
324962	2007 YQ ₇₃		6 17.9 175°15	1°5/18.0	17		459571	2013 GB ₁₀₇		6 17.9 98°39	4°2/17.8	17	
5 11	18 18.69	-26 22.7	1.868	2.689	15.1	21.9	5 11	18 16.42	-15 13.7	1.391	2.229	18.4	21.5
5 21	18 13.36	-26 42.7	1.786	2.692	11.8	21.7	5 21	18 11.99	-14 44.0	1.325	2.238	14.6	21.3
5 31	18 5.34	-27 1.2	1.726	2.694	8.0	21.5	5 31	18 4.57	-14 20.9	1.280	2.247	10.2	21.0
6 10	17 55.33	-27 15.5	1.690	2.695	3.9	21.3	6 10	17 55.01	-14 6.1	1.256	2.256	5.9	20.8
6 20	17 44.30	-27 23.4	1.682	2.696	1.7	21.1	6 20	17 44.46	-14 0.6	1.257	2.265	4.4	20.8
6 30	17 33.51	-27 24.4	1.701	2.696	5.5	21.4	6 30	17 34.33	-14 5.1	1.283	2.274	7.6	21.0
7 10	17 24.13	-27 19.6	1.746	2.696	9.6	21.6	7 10	17 25.91	-14 19.3	1.332	2.282	11.9	21.2
7 20	17 17.03	-27 11.3	1.814	2.695	13.2	21.8	7 20	17 20.09	-14 41.8	1.402	2.290	15.9	21.5
409722	2006 BM ₂₆₃		6 17.9 34°63	1°8/18.0	17		34661	2000 WQ ₁₆₅		6 17.9 313°85	2°1/18.1	18	
5 11	18 15.21	-25 58.0	1.158	2.018	20.0	20.7	5 11	18 11.05	-16 1.5	2.106	2.929	13.5	18.5
5 21	18 11.91	-26 20.8	1.098	2.025	15.6	20.5	5 21	18 7.08	-16 13.0	2.016	2.922	10.7	18.3
5 31	18 4.95	-26 42.3	1.057	2.034	10.6	20.2	5 31	18 1.00	-16 30.4	1.948	2.915	7.4	18.1
6 10	17 55.28	-26 59.0	1.036	2.043	5.1	20.0	6 10	17 53.35	-16 53.6	1.906	2.908	3.9	17.9
6 20	17 44.33	-27 8.1	1.038	2.052	2.2	19.8	6 20	17 44.87	-17 21.8	1.890	2.902	2.3	17.8
6 30	17 33.91	-27 8.6	1.063	2.063	7.2	20.1	6 30	17 36.45	-17 54.0	1.902	2.896	5.2	17.9
7 10	17 25.64	-27 2.7	1.111	2.073	12.3	20.4	7 10	17 29.02	-18 29.2	1.940	2.889	8.8	18.1
7 20	17 20.57	-26 53.7	1.178	2.085	16.8	20.7	7 20	17 23.30	-19 6.3	2.001	2.883	12.1	18.3
117575	2005 EN ₃₄		6 17.9 61°22	3°8/17.8	18		481016	2004 RE ₂₆₀		6 17.9 244°67	3°4/17.7	18	

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6 17.9

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
440681	2005 YG ₃₇		6 17.9 255°39	1°6/18.4	18		158494	2002 EX ₃₃		6 17.9 257°70	3°8/17.9	18	
5 11	18 16.56	-31 22.0	2.637	3.440	11.7	20.8	5 11	18 12.89	-13 36.0	1.834	2.658	15.2	20.6
5 21	18 10.97	-30 52.3	2.531	3.424	9.3	20.6	5 21	18 8.75	-13 24.0	1.751	2.655	12.1	20.4
5 31	18 3.38	-30 15.1	2.448	3.409	6.4	20.4	5 31	18 2.23	-13 19.1	1.689	2.652	8.6	20.1
6 10	17 54.36	-29 29.3	2.391	3.393	3.3	20.2	6 10	17 53.97	-13 22.5	1.650	2.648	5.2	19.9
6 20	17 44.66	-28 35.0	2.364	3.377	1.7	20.0	6 20	17 44.80	-13 34.4	1.638	2.645	3.9	19.8
6 30	17 35.17	-27 34.0	2.366	3.360	4.4	20.2	6 30	17 35.77	-13 54.8	1.652	2.641	6.5	20.0
7 10	17 26.71	-26 29.4	2.398	3.343	7.5	20.4	7 10	17 27.92	-14 22.7	1.692	2.637	10.1	20.2
7 20	17 19.94	-25 24.4	2.455	3.326	10.5	20.5	7 20	17 22.03	-14 56.8	1.754	2.634	13.6	20.4
205740	2002 AM ₁₉₇		6 17.9 98°04	1°8/17.8	17		197970	2004 RZ ₁₀₉		6 17.9 215°93	9°8/18.2	18	
5 11	18 18.15	-21 23.1	1.469	2.306	17.6	20.2	5 11	18 34.38	-57 33.8	2.942	3.626	13.1	22.2
5 21	18 13.18	-20 47.4	1.404	2.319	13.8	20.0	5 21	18 26.24	-58 42.8	2.853	3.614	11.9	22.1
5 31	18 5.26	-20 11.3	1.360	2.332	9.3	19.7	5 31	18 14.42	-59 37.0	2.783	3.602	10.8	22.0
6 10	17 55.28	-19 35.5	1.339	2.345	4.4	19.5	6 10	17 59.67	-60 9.6	2.735	3.589	10.0	21.9
6 20	17 44.44	-19 1.3	1.343	2.357	2.2	19.4	6 20	17 43.33	-60 15.3	2.710	3.575	9.8	21.9
6 30	17 34.14	-18 30.8	1.373	2.369	6.5	19.7	6 30	17 27.21	-59 52.2	2.710	3.561	10.3	21.9
7 10	17 25.61	-18 6.3	1.428	2.381	11.0	19.9	7 10	17 13.05	-59 3.1	2.733	3.545	11.3	21.9
7 20	17 19.68	-17 49.3	1.504	2.392	15.0	20.2	7 20	17 2.07	-57 53.9	2.777	3.529	12.5	22.0
4619	Polyakhova		6 17.9 161°71	0°0/17.9	18		63052	2000 WB ₉₈		6 17.9 302°23	1°1/17.9	18	
5 11	18 14.38	-23 45.4	1.935	2.763	14.4	17.4	5 11	18 13.34	-24 26.4	1.639	2.479	16.0	19.0
5 21	18 9.83	-23 41.7	1.854	2.764	11.2	17.1	5 21	18 9.93	-24 50.7	1.537	2.454	12.7	18.7
5 31	18 2.89	-23 37.1	1.794	2.765	7.5	16.9	5 31	18 3.56	-25 16.6	1.456	2.429	8.7	18.4
6 10	17 54.21	-23 30.7	1.759	2.766	3.4	16.7	6 10	17 54.79	-25 41.8	1.398	2.405	4.1	18.1
6 20	17 44.70	-23 22.0	1.751	2.767	0.9	16.5	6 20	17 44.55	-26 3.5	1.366	2.381	1.5	17.9
6 30	17 35.42	-23 11.3	1.770	2.767	5.1	16.8	6 30	17 34.15	-26 20.1	1.358	2.356	6.2	18.1
7 10	17 27.41	-22 59.9	1.815	2.768	9.1	17.0	7 10	17 25.01	-26 31.4	1.376	2.333	11.0	18.3
7 20	17 21.43	-22 49.4	1.884	2.769	12.6	17.2	7 20	17 18.27	-26 39.0	1.415	2.309	15.3	18.5
215811	2004 RE ₃₀₈		6 17.9 340°21	6°3/18.2	18		389797	2011 UB ₁₃₄		6 17.9 11°32	1°7/18.2	18	
5 11	18 12.35	-37 47.2	1.787	2.610	15.6	19.4	5 11	18 11.32	-16 27.2	1.671	2.508	15.8	20.4
5 21	18 9.11	-38 32.4	1.701	2.598	12.8	19.2	5 21	18 7.79	-16 59.6	1.597	2.511	12.4	20.2
5 31	18 2.90	-39 8.8	1.636	2.586	9.9	19.0	5 31	18 1.72	-17 40.3	1.543	2.514	8.5	19.9
6 10	17 54.38	-39 31.3	1.593	2.575	7.2	18.8	6 10	17 53.77	-18 28.2	1.513	2.518	4.2	19.7
6 20	17 44.64	-39 35.8	1.574	2.565	6.4	18.7	6 20	17 44.85	-19 20.7	1.509	2.523	1.9	19.5
6 30	17 35.04	-39 21.0	1.580	2.556	8.1	18.8	6 30	17 36.11	-20 15.4	1.531	2.529	5.7	19.8
7 10	17 26.97	-38 49.4	1.610	2.548	11.1	19.0	7 10	17 28.67	-21 9.9	1.579	2.535	9.9	20.1
7 20	17 21.43	-38 5.7	1.661	2.541	14.2	19.1	7 20	17 23.36	-22 2.8	1.649	2.542	13.6	20.3
100215	1994 PV ₅		6 17.9 281°75	0°3/17.9	18		311418	2005 UV ₈₀		6 17.9 271°11	1°6/17.9	18	
5 11	18 11.65	-22 42.3	2.233	3.057	12.8	19.7	5 11	18 11.27	-18 56.3	2.435	3.254	12.1	21.4
5 21	18 7.51	-22 38.3	2.138	3.046	10.0	19.5	5 21	18 7.04	-18 44.7	2.332	3.236	9.5	21.2
5 31	18 1.27	-22 34.2	2.065	3.035	6.7	19.3	5 31	18 0.90	-18 34.9	2.251	3.218	6.5	21.0
6 10	17 53.49	-22 29.4	2.017	3.024	3.1	19.0	6 10	17 53.32	-18 26.9	2.196	3.200	3.3	20.8
6 20	17 44.89	-22 23.5	1.997	3.013	0.9	18.8	6 20	17 44.97	-18 21.0	2.168	3.181	1.8	20.6
6 30	17 36.40	-22 16.8	2.005	3.002	4.7	19.1	6 30	17 36.64	-18 17.6	2.169	3.162	4.7	20.8
7 10	17 28.89	-22 10.0	2.039	2.991	8.3	19.3	7 10	17 29.16	-18 17.2	2.197	3.144	8.1	21.0
7 20	17 23.09	-22 4.3	2.097	2.980	11.6	19.5	7 20	17 23.18	-18 20.1	2.249	3.125	11.2	21.1
272699	2005 YJ ₁		6 17.9 228°20	2°7/18.2	18		440848	2006 SJ ₁₃₉		6 17.9 276°37	6°7/17.5	18	
5 11	18 15.45	-14 10.8	2.117	2.928	13.9	21.1	5 11	18 10.61	-5 3.1	2.228	3.024	13.8	21.6
5 21	18 10.53	-14 25.8	2.021	2.918	11.0	20.8	5 21	18 6.62	-4 24.1	2.129	3.005	11.5	21.4
5 31	18 3.37	-14 48.3	1.946	2.908	7.7	20.6	5 31	18 0.67	-3 54.9	2.052	2.986	9.2	21.2
6 10	17 54.48	-15 18.4	1.898	2.898	4.3	20.4	6 10	17 53.24	-3 38.4	1.999	2.966	7.2	21.1
6 20	17 44.64	-15 55.0	1.876	2.886	2.8	20.3	6 20	17 44.99	-3 36.9	1.971	2.947	6.8	21.0
6 30	17 34.79	-16 36.7	1.884	2.875	5.6	20.4	6 30	17 36.74	-3 51.3	1.969	2.927	8.2	21.1
7 10	17 25.94	-17 22.1	1.918	2.863	9.2	20.6	7 10	17 29.34	-4 21.0	1.993	2.907	10.6	21.2
7 20	17 18.86	-18 9.7	1.976	2.850	12.6	20.8	7 20	17 23.46	-5 4.0	2.039	2.887	13.3	21.3
469997	2006 KH ₄₈		6 17.9 348°38	0°2/17.9	17		8434	Columbianus		6 17.9 165°25	0°6/17.9	18	
5 11	18 13.91	-22 16.0	1.906	2.735	14.5	21.0	5 11	18 12.84	-21 3.4	2.872	3.680	10.7	19.3
5 21	18 9.58	-22 39.5	1.824	2.735	11.3	20.8	5 21	18 7.80	-21 4.4	2.786	3.685	8.3	19.1
5 31	18 2.82	-23 5.2	1.763	2.734	7.6	20.6	5 31	18 1.13	-21 6.2	2.724	3.690	5.6	19.0
6 10	17 54.23	-23 31.4	1.728	2.734	3.5	20.3	6 10	17 53.33	-21 8.3	2.689	3.694	2.6	18.8
6 20	17 44.71	-23 56.0	1.718	2.734	0.9	20.1	6 20	17 45.00	-21 10.3	2.683	3.698	0.9	18.6
6 30	17 35.34	-24 17.9	1.737	2.734	5.2	20.4	6 30	17 36.81	-21 12.2	2.707	3.701	3.8	18.9
7 10	17 27.20	-24 36.9	1.781	2.734	9.2	20.7	7 10	17 29.44	-21 14.4	2.758	3.704	6.7	19.1
7 20	17 21.08	-24 53.6	1.848	2.734	12.7	20.9	7 20	17 23.42	-21 17.2	2.836	3.706	9.3	19.2
502099	2015 AB ₂₆₂		6 17.9 222°43	3°6/17.7	18		470465	2008 AV ₄₈		6 17.9 171°77	1°9/18.1	18	
5 11	18 14.80	-15 34.8	1.868	2.691	15.0	21.7	5 11	18 12.71	-16 6.3	2.472	3.283	12.1	21.7
5 21	18 10.21	-15 4.0	1.781	2.685	11.9	21.5	5 21	18 7.98	-16 17.0	2.386	3.285	9.5	21.5
5 31	18 3.20	-14 37.0	1.714	2.678	8.4	21.3	5 31	18 1.41	-16 32.5	2.323	3.287	6.5	21.3
6 10	17 54.40	-14 15.4	1.672	2.671	4.9	21.1	6 10	17 53.51	-16 52.4	2.286	3.288	3.4	21.1
6 20	17 44.67	-14 0.3	1.656	2.663	3.7	21.0	6 20	17 44.95	-17 16.1	2.278	3.289	2.0	21.0
6 30	17 35.09	-13 52.9	1.667	2.655	6.5	21.1	6 30	17 36.51	-17 42.9	2.298	3.290	4.6	21.2
7 10	17 26.71	-13 53.7	1.704	2.647	10.3	21.3	7 10	17 28.96	-18 11.9	2.345	3.291	7.7	21.4
7 20	17 20.32	-14 2.6	1.763	2.638	13.8	21.5	7 20	17 22.90	-18 42.6	2.418	3.291	10.6	21.6
119066	2001 KJ ₇₆		6 17.9 318°06	0°1/18.1	05 C		511743	2015 DE ₁₁₉		6 17.9 295°03	1°3/17.9	18	
5 11	17 49.83	-27 4											