

EPHEMERIDES

9 10.0

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
91718	1999 TX ₁₅₅		9 10.0 333°91	3°4/ 6.6	18		451146	2009 QZ ₆₃		9 10.0 24°28	3°5/14.0	16	
8 9	23 33.44	-12 4.1	1.849	2.752	11.7	18.7	8 9	23 29.54	+ 9 3.5	1.573	2.429	16.0	20.5
8 19	23 28.96	-12 59.1	1.784	2.744	8.4	18.5	8 19	23 26.28	+ 8 12.1	1.519	2.442	12.4	20.3
8 29	23 22.72	-13 57.8	1.744	2.736	5.0	18.3	8 29	23 21.23	+ 6 55.8	1.485	2.456	8.3	20.1
9 8	23 15.40	-14 53.4	1.730	2.729	3.5	18.2	9 8	23 15.17	+ 5 19.7	1.475	2.471	4.6	19.9
9 18	23 7.87	-15 39.7	1.743	2.722	5.9	18.3	9 18	23 9.01	+ 3 31.8	1.491	2.487	4.0	19.9
9 28	23 1.07	-16 11.0	1.782	2.716	9.4	18.5	9 28	23 3.70	+ 1 42.2	1.534	2.504	7.4	20.2
10 8	22 55.82	-16 24.6	1.844	2.710	12.8	18.7	10 8	23 0.04	+ 0 0.5	1.602	2.521	11.2	20.4
10 18	22 52.68	-16 19.8	1.927	2.705	15.7	18.9	10 18	22 58.51	- 1 25.9	1.692	2.540	14.5	20.7
53953	2000 GP ₅₉		9 10.0 320°42	7°7/ 4.9	18		82251	2001 KZ ₃		9 10.0 63°64	0°1/ 9.9	17 R	
8 9	23 39.98	-19 54.1	1.224	2.139	15.5	17.9	8 9	23 37.71	- 2 6.9	1.325	2.217	16.1	19.9
8 19	23 34.64	-20 42.2	1.158	2.117	11.8	17.7	8 19	23 32.28	- 2 50.4	1.282	2.235	11.6	19.7
8 29	23 26.33	-21 25.6	1.112	2.095	8.6	17.4	8 29	23 24.62	- 3 48.5	1.261	2.253	6.5	19.5
9 8	23 16.05	-21 53.6	1.088	2.075	7.9	17.3	9 8	23 15.74	- 4 54.2	1.264	2.271	1.1	19.1
9 18	23 5.25	-21 57.2	1.088	2.054	10.6	17.4	9 18	23 6.85	- 5 58.9	1.293	2.289	4.3	19.4
9 28	22 55.63	-21 31.2	1.110	2.035	14.7	17.6	9 28	22 59.20	- 6 54.4	1.347	2.308	9.2	19.8
10 8	22 48.58	-20 36.2	1.151	2.017	18.9	17.8	10 8	22 53.73	- 7 34.7	1.424	2.326	13.5	20.1
10 18	22 44.90	-19 16.0	1.210	1.999	22.5	18.0	10 18	22 50.93	- 7 57.1	1.521	2.345	17.1	20.4
13946	1990 OK ₃		9 10.0 8°23	2°2/ 8.4	18		439431	2013 GG ₁		9 10.0 148°62	2°6/ 6.9	18	
8 9	23 30.82	- 6 0.0	0.963	1.888	17.7	16.7	8 9	23 33.21	- 9 57.6	2.153	3.047	10.7	21.1
8 19	23 28.00	- 6 53.1	0.919	1.890	12.6	16.4	8 19	23 28.56	-11 2.3	2.092	3.048	7.5	20.9
8 29	23 22.49	- 8 0.7	0.895	1.892	6.9	16.2	8 29	23 22.41	-12 11.8	2.056	3.049	4.3	20.7
9 8	23 15.38	- 9 12.5	0.891	1.897	2.2	15.9	9 8	23 15.37	-13 20.0	2.048	3.049	2.6	20.6
9 18	23 8.07	-10 17.0	0.909	1.904	6.3	16.2	9 18	23 8.19	-14 21.0	2.068	3.050	4.9	20.7
9 28	23 2.10	-11 4.1	0.949	1.912	11.9	16.5	9 28	23 1.65	-15 9.5	2.116	3.050	8.2	20.9
10 8	22 58.62	-11 27.7	1.008	1.921	16.8	16.8	10 8	22 56.45	-15 42.3	2.188	3.051	11.2	21.1
10 18	22 58.19	-11 26.4	1.085	1.932	20.8	17.1	10 18	22 53.07	-15 58.2	2.282	3.051	13.8	21.3
323701	2005 GN ₁₂₇		9 10.0 41°86	4°5/ 7.1	17		384396	2009 WO ₁		9 10.0 311°64	0°1/10.1	18	
8 9	23 41.84	-13 51.7	1.271	2.179	15.6	20.7	8 9	23 36.39	- 3 4.1	1.348	2.243	15.7	21.3
8 19	23 35.44	-14 24.0	1.224	2.185	11.2	20.4	8 19	23 31.75	- 3 23.0	1.272	2.226	11.5	21.0
8 29	23 26.46	-14 56.9	1.199	2.191	6.7	20.2	8 29	23 24.61	- 3 56.3	1.217	2.209	6.6	20.6
9 8	23 16.04	-15 22.1	1.198	2.198	4.5	20.1	9 8	23 15.79	- 4 38.9	1.186	2.193	1.2	20.2
9 18	23 5.56	-15 32.7	1.222	2.205	7.4	20.3	9 18	23 6.46	- 5 23.9	1.180	2.177	4.4	20.4
9 28	22 56.47	-15 24.4	1.271	2.212	11.8	20.6	9 28	22 58.00	- 6 3.4	1.198	2.161	9.9	20.7
10 8	22 49.88	-14 56.6	1.341	2.220	15.8	20.8	10 8	22 51.63	- 6 30.8	1.239	2.146	14.7	20.9
10 18	22 46.32	-14 10.9	1.429	2.227	19.2	21.1	10 18	22 48.14	- 6 41.9	1.299	2.132	18.9	21.2
376987	2002 PX ₁₆		9 10.0 34°42	4°3/13.1	15		237369	1994 WG ₇		9 10.0 284°94	2°1/12.2	18	
8 9	23 36.84	+ 5 28.9	1.121	2.001	19.3	20.5	8 9	23 33.12	+ 4 27.1	1.822	2.683	13.9	20.5
8 19	23 32.04	+ 5 38.4	1.075	2.013	14.8	20.3	8 19	23 28.77	+ 3 43.3	1.748	2.679	10.5	20.3
8 29	23 24.64	+ 5 22.8	1.047	2.025	9.8	20.1	8 29	23 22.65	+ 2 40.6	1.696	2.676	6.6	20.1
9 8	23 15.74	+ 4 45.3	1.040	2.039	5.3	19.9	9 8	23 15.43	+ 1 23.2	1.670	2.672	2.8	19.8
9 18	23 6.71	+ 3 52.6	1.057	2.053	5.2	19.9	9 18	23 7.96	- 0 2.4	1.671	2.669	3.3	19.9
9 28	22 59.02	+ 2 54.2	1.098	2.068	9.5	20.2	9 28	23 1.19	- 1 28.3	1.700	2.665	7.3	20.1
10 8	22 53.78	+ 2 0.1	1.160	2.084	14.1	20.5	10 8	22 55.94	- 2 46.8	1.755	2.662	11.1	20.3
10 18	22 51.57	+ 1 17.3	1.242	2.100	18.0	20.8	10 18	22 52.78	- 3 52.0	1.832	2.659	14.5	20.6
375185	2008 DO ₇₅		9 10.0 36°90	0°3/ 9.8	17		21315	1996 XN ₁₇		9 10.0 296°59	9°4/ 1.2	18	
8 9	23 40.41	- 4 50.4	1.231	2.129	16.7	20.0	8 9	23 39.14	-26 17.1	1.579	2.480	13.5	18.4
8 19	23 34.45	- 4 53.4	1.181	2.137	12.0	19.7	8 19	23 33.57	-27 42.5	1.520	2.462	11.0	18.3
8 29	23 25.94	- 5 7.4	1.153	2.146	6.7	19.5	8 29	23 25.53	-28 58.7	1.484	2.443	9.5	18.1
9 8	23 15.96	- 5 27.2	1.147	2.154	1.1	19.1	9 8	23 15.93	-29 54.9	1.471	2.425	9.8	18.1
9 18	23 5.87	- 5 46.5	1.167	2.164	4.6	19.4	9 18	23 5.98	-30 23.0	1.483	2.407	12.0	18.2
9 28	22 57.11	- 5 59.3	1.212	2.174	9.9	19.7	9 28	22 57.05	-30 18.6	1.516	2.389	14.9	18.3
10 8	22 50.78	- 6 1.1	1.278	2.184	14.5	20.0	10 8	22 50.27	-29 42.8	1.570	2.371	17.8	18.5
10 18	22 47.46	- 5 49.7	1.364	2.195	18.3	20.3	10 18	22 46.33	-28 39.7	1.639	2.354	20.4	18.6
322547	2011 YC ₃₇		9 10.0 153°69	1°1/11.3	18		391862	2008 TE ₃₁		9 10.0 215°32	6°6/19.6	14 C	
8 9	23 34.87	+ 0 23.6	2.398	3.258	11.0	21.2	8 9	23 35.31	+22 39.6	2.595	3.323	13.8	22.9
8 19	23 29.59	+ 0 8.8	2.327	3.261	8.1	21.0	8 19	23 30.02	+22 10.8	2.493	3.314	11.8	22.7
8 29	23 22.93	- 0 16.3	2.281	3.264	4.9	20.8	8 29	23 23.25	+21 17.2	2.412	3.303	9.7	22.5
9 8	23 15.45	- 0 48.7	2.262	3.266	1.7	20.6	9 8	23 15.54	+19 58.9	2.355	3.292	7.6	22.4
9 18	23 7.82	- 1 24.9	2.272	3.269	2.7	20.6	9 18	23 7.57	+18 18.3	2.326	3.280	6.6	22.3
9 28	23 0.78	- 2 0.6	2.311	3.271	6.0	20.9	9 28	23 0.11	+16 20.8	2.326	3.267	7.2	22.3
10 8	22 54.97	- 2 31.8	2.377	3.273	9.1	21.1	10 8	22 53.86	+14 14.4	2.355	3.253	9.1	22.4
10 18	22 50.84	- 2 55.4	2.467	3.275	11.7	21.3	10 18	22 49.34	+12 7.4	2.411	3.239	11.4	22.6
286631	2002 EZ ₂₆		9 10.0 247°23	0°1/ 9.8	18		32569	Deming		9 10.0 246°60	3°2/ 7.0	18	
8 9	23 27.56	- 4 18.9	4.587	5.455	6.0	21.1	8 9	23 39.48	-13 59.4	2.197	3.085	10.8	17.4
8 19	23 23.91	- 4 40.3	4.507	5.449	4.3	20.9	8 19	23 33.08	-14 24.9	2.123	3.075	7.7	17.2
8 29	23 19.59	- 5 5.5	4.454	5.443	2.4	20.8	8 29	23 24.97	-14 50.7	2.076	3.064	4.7	17.0
9 8	23 14.88	- 5 32.7	4.429	5.436	0.4	20.6	9 8	23 15.83	-15 11.9	2.056	3.053	3.2	16.9
9 18	23 10.09	- 5 59.9	4.435	5.430	1.7	20.7	9 18	23 6.47	-15 24.2	2.064	3.042	5.3	17.0
9 28	23 5.55	- 6 25.2	4.471	5.424	3.6	20.9	9 28	22 57.81	-15 24.3	2.101	3.031	8.5	17.2
10 8	23 1.57	- 6 46.7	4.536	5.417	5.4	21.0	10 8	22 50.64	-15 10.5	2.163	3.019	11.6	17.4
10 18	22 58.40	- 7 2.9	4.626	5.411	7.0	21.1	10 18	22 45.48	-14 43.0	2.247	3.007	14.2	17.6
312453	2008 KA ₃₇		9 10.0 263°12	3°0/ 6.3	18		159358	2007 FA ₃₁		9 10.0 202°08	0°1/ 9.9	18	
8 9	23 32.79	-11 22.1											

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
306898	2001 TR ₁₆₀		9 10.0 322°19	3°4/13.7	18		185376	2006 VS ₁₃₅		9 10.0 54°72	1°5/8.9	17	
8 9	23 33.35	+ 7 27.7	1.977	2.820	13.7	21.0	8 9	23 38.84	- 5 48.3	1.237	2.139	16.3	20.1
8 19	23 28.82	+ 7 9.9	1.902	2.818	10.6	20.8	8 19	23 33.19	- 6 28.0	1.198	2.157	11.6	19.9
8 29	23 22.64	+ 6 33.6	1.848	2.816	7.2	20.6	8 29	23 25.17	- 7 18.5	1.181	2.175	6.3	19.6
9 8	23 15.43	+ 5 41.2	1.820	2.814	4.1	20.4	9 8	23 15.88	- 8 11.6	1.187	2.193	1.5	19.4
9 18	23 7.99	+ 4 37.3	1.819	2.813	3.8	20.4	9 18	23 6.62	- 8 59.2	1.218	2.212	5.2	19.7
9 28	23 1.21	+ 3 28.2	1.846	2.811	6.8	20.6	9 28	22 58.72	- 9 34.1	1.274	2.231	10.1	20.0
10 8	22 55.85	+ 2 20.7	1.898	2.809	10.2	20.8	10 8	22 53.17	- 9 52.0	1.352	2.250	14.4	20.3
10 18	22 52.45	+ 1 20.8	1.974	2.808	13.3	21.0	10 18	22 50.45	- 9 51.8	1.450	2.269	18.0	20.6
96297	1996 RY ₂₅		9 10.0 336°68	1°5/9.2	18		260033	2004 GZ ₃₅		9 10.0 258°92	8°7/19.4	18	
8 9	23 41.50	- 8 59.8	1.312	2.213	15.7	18.8	8 9	23 36.03	+22 29.9	1.920	2.672	17.2	21.2
8 19	23 35.40	- 8 45.9	1.244	2.202	11.3	18.5	8 19	23 31.16	+22 28.9	1.815	2.650	15.0	20.9
8 29	23 26.62	- 8 36.3	1.198	2.192	6.3	18.2	8 29	23 24.19	+21 57.2	1.728	2.627	12.4	20.7
9 8	23 16.13	- 8 26.5	1.177	2.183	1.7	17.9	9 8	23 15.76	+20 52.6	1.664	2.604	10.0	20.5
9 18	23 5.27	- 8 12.0	1.180	2.175	5.2	18.1	9 18	23 6.78	+19 16.2	1.624	2.579	8.7	20.4
9 28	22 55.53	- 7 48.7	1.209	2.167	10.4	18.4	9 28	22 58.34	+17 14.0	1.610	2.554	9.5	20.4
10 8	22 48.16	- 7 14.5	1.260	2.160	15.1	18.6	10 8	22 51.48	+14 56.4	1.623	2.528	12.0	20.5
10 18	22 43.88	- 6 29.0	1.330	2.155	19.0	18.9	10 18	22 46.95	+12 35.2	1.659	2.502	15.0	20.6
38007	1998 KS ₄₉		9 10.0 83°86	1°1/8.8	18		364070	2005 XX ₁₀₇		9 10.0 166°17	0°6/9.3	18	
8 9	23 33.74	- 2 42.5	1.698	2.585	13.4	18.8	8 9	23 33.80	- 4 46.8	2.597	3.472	9.8	22.7
8 19	23 29.17	- 4 14.1	1.645	2.598	9.5	18.6	8 19	23 28.76	- 5 26.2	2.529	3.475	7.0	22.5
8 29	23 22.82	- 5 59.1	1.617	2.610	5.1	18.4	8 29	23 22.46	- 6 12.5	2.487	3.478	3.8	22.3
9 8	23 15.46	- 7 49.1	1.616	2.622	1.2	18.1	9 8	23 15.42	- 7 1.8	2.474	3.481	0.7	22.1
9 18	23 7.99	- 9 35.0	1.642	2.635	4.4	18.4	9 18	23 8.26	- 7 49.7	2.490	3.483	3.0	22.3
9 28	23 1.38	-11 7.8	1.696	2.647	8.6	18.6	9 28	23 1.64	- 8 32.1	2.535	3.485	6.1	22.5
10 8	22 56.43	-12 21.7	1.775	2.659	12.3	18.9	10 8	22 56.14	- 9 5.6	2.607	3.487	9.0	22.7
10 18	22 53.63	-13 13.7	1.875	2.671	15.4	19.1	10 18	22 52.18	- 9 28.1	2.703	3.488	11.5	22.9
52035	2002 PS ₄₃		9 10.0 290°66	4°3/15.2	18		75855	2000 CT ₅		9 10.0 229°29	5°5/3.6	18	
8 9	23 34.06	+13 34.3	2.087	2.893	14.4	18.6	8 9	23 34.47	-16 49.2	1.883	2.788	11.5	19.7
8 19	23 29.58	+12 31.2	1.964	2.855	11.6	18.4	8 19	23 29.73	-18 30.7	1.829	2.785	8.4	19.5
8 29	23 23.25	+10 59.3	1.864	2.816	8.5	18.1	8 29	23 23.19	-20 12.5	1.800	2.782	6.0	19.4
9 8	23 15.58	+ 8 59.8	1.790	2.776	5.3	17.8	9 8	23 15.56	-21 45.5	1.797	2.779	5.8	19.4
9 18	23 7.34	+ 6 37.5	1.745	2.736	4.5	17.7	9 18	23 7.71	-23 1.7	1.822	2.776	8.1	19.5
9 28	22 59.47	+ 4 1.7	1.731	2.695	7.2	17.8	9 28	23 0.63	-23 55.2	1.872	2.772	11.1	19.7
10 8	22 52.89	+ 1 24.0	1.745	2.653	11.1	17.9	10 8	22 55.14	-24 24.0	1.945	2.769	14.0	19.9
10 18	22 48.32	- 1 4.6	1.785	2.611	14.8	18.1	10 18	22 51.79	-24 28.6	2.036	2.765	16.5	20.0
478537	2012 TZ ₁₂		9 10.0 267°78	10°4/1.6	18		485276	2010 XD ₁₉		9 10.0 342°68	4°3/15.0	17	
8 9	23 47.19	-33 18.3	1.792	2.664	13.6	20.8	8 9	23 31.82	+10 43.8	2.054	2.881	13.8	21.2
8 19	23 38.97	-34 9.4	1.744	2.657	11.7	20.6	8 19	23 27.72	+10 28.4	1.976	2.878	11.0	21.0
8 29	23 28.35	-34 43.0	1.719	2.651	10.5	20.6	8 29	23 22.04	+ 9 52.8	1.919	2.875	7.9	20.8
9 8	23 16.40	-34 50.7	1.719	2.644	10.7	20.6	9 8	23 15.37	+ 8 58.7	1.887	2.872	5.2	20.6
9 18	23 4.44	-34 27.7	1.742	2.637	12.2	20.6	9 18	23 8.48	+ 7 50.1	1.882	2.870	4.5	20.6
9 28	22 53.84	-33 33.5	1.789	2.631	14.4	20.8	9 28	23 2.19	+ 6 33.3	1.904	2.868	6.7	20.7
10 8	22 45.62	-32 12.1	1.857	2.624	16.7	20.9	10 8	22 57.26	+ 5 15.5	1.952	2.866	9.8	20.9
10 18	22 40.32	-30 29.4	1.943	2.617	18.7	21.1	10 18	22 54.19	+ 4 3.3	2.024	2.864	12.8	21.1
151749	2003 DF ₁₈		9 10.0 333°38	3°9/8.1	18		347991	2003 SR ₁₄₄		9 10.0 354°03	9°2/18.0	18	
8 9	23 40.49	-13 7.2	1.118	2.033	16.6	18.8	8 9	23 30.46	+16 25.4	1.266	2.099	20.4	19.7
8 19	23 35.14	-13 5.3	1.050	2.014	12.1	18.5	8 19	23 27.58	+17 1.7	1.198	2.092	17.2	19.5
8 29	23 26.69	-13 3.9	1.002	1.996	7.2	18.1	8 29	23 22.30	+17 5.0	1.146	2.086	13.7	19.3
9 8	23 16.18	-12 55.8	0.976	1.979	3.9	17.9	9 8	23 15.45	+16 33.3	1.114	2.081	10.6	19.1
9 18	23 5.12	-12 34.7	0.974	1.963	7.2	18.0	9 18	23 8.16	+15 29.0	1.103	2.078	9.2	19.0
9 28	22 55.28	-11 56.4	0.994	1.949	12.5	18.3	9 28	23 1.79	+14 0.2	1.115	2.077	10.6	19.1
10 8	22 48.12	-11 0.2	1.035	1.936	17.5	18.5	10 8	22 57.52	+12 19.5	1.149	2.077	13.8	19.3
10 18	22 44.48	- 9 47.9	1.094	1.925	21.8	18.8	10 18	22 56.07	+10 39.5	1.202	2.078	17.3	19.5
282758	2006 HK ₂₇		9 10.0 85°54	6°3/17.2	16		183538	2003 GC ₅₅		9 10.0 101°93	5°6/3.3	18	
8 9	23 34.46	+16 9.5	1.846	2.645	16.2	20.1	8 9	23 35.55	-20 33.1	2.213	3.110	10.3	20.4
8 19	23 29.67	+15 58.0	1.781	2.658	13.3	19.9	8 19	23 30.17	-21 50.7	2.175	3.124	7.8	20.3
8 29	23 23.12	+15 20.4	1.735	2.670	10.2	19.8	8 29	23 23.29	-23 3.7	2.163	3.137	5.9	20.2
9 8	23 15.53	+14 18.0	1.714	2.682	7.4	19.6	9 8	23 15.58	-24 5.3	2.178	3.150	5.8	20.2
9 18	23 7.79	+12 55.2	1.718	2.694	6.3	19.6	9 18	23 7.84	-24 50.2	2.220	3.163	7.6	20.4
9 28	23 0.85	+11 19.4	1.749	2.706	7.8	19.7	9 28	23 0.88	-25 15.2	2.288	3.175	9.9	20.6
10 8	22 55.53	+ 9 39.9	1.805	2.718	10.5	19.9	10 8	22 55.37	-25 19.7	2.379	3.187	12.3	20.7
10 18	22 52.34	+ 8 5.1	1.886	2.730	13.4	20.1	10 18	22 51.75	-25 5.1	2.490	3.200	14.2	20.9
112527	2002 PJ ₃₃		9 10.0 61°37	5°7/15.2	18		306000	2009 TS ₂₁		9 10.0 288°83	1°8/6.5	16	
8 9	23 36.99	+11 19.2	1.780	2.605	15.7	19.7	8 9	23 28.81	-13 38.4	4.228	5.115	6.0	20.1
8 19	23 31.59	+11 41.3	1.712	2.610	12.7	19.5	8 19	23 24.87	-14 6.3	4.160	5.111	4.3	20.0
8 29	23 24.26	+11 42.1	1.664	2.615	9.4	19.3	8 29	23 20.18	-14 34.6	4.119	5.108	2.6	19.9
9 8	23 15.74	+11 21.9	1.641	2.620	6.5	19.2	9 8	23 15.07	-15 0.7	4.108	5.104	1.9	19.8
9 18	23 6.97	+10 43.6	1.643	2.625	5.8	19.1	9 18	23 9.88	-15 22.6	4.126	5.100	3.1	19.9
9 28	22 59.01	+ 9 52.9	1.672	2.631	7.9	19.3	9 28	23 5.00	-15 38.1	4.173	5.097	4.8	20.0
10 8	22 52.74	+ 8 57.2	1.725	2.636	11.1	19.5	10 8	23 0.76	-15 46.0	4.247	5.093	6.6	20.2
10 18	22 48.76	+ 8 3.4	1.802	2.642	14.1	19.7	10 18	22 57.45	-15 45.6	4.345	5.089	8.1	20.3
280072	2002 CL ₂₁₈		9 10.0 281°80	0°7/8.8	15		476961	2008 XJ ₅₃		9 10.0 333°50	4°3/7.2	18	
8 9	23 31.06												

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
448690	2010 <i>WM</i> ₅₈		9 10.0 271°56	0°3/10.4	17		78761	2002 <i>UQ</i> ₇		9 10.0 250°21	5°4/ 3.8	18	
8 9	23 33.88	- 1 39.3	2.388	3.257	10.7	22.5	8 9	23 35.92	-18 40.3	2.083	2.982	10.8	19.2
8 19	23 29.07	- 2 10.0	2.296	3.237	7.8	22.3	8 19	23 30.71	-19 57.5	2.019	2.971	8.1	19.1
8 29	23 22.79	- 2 50.8	2.230	3.217	4.5	22.1	8 29	23 23.76	-21 13.4	1.981	2.960	5.9	18.9
9 8	23 15.54	- 3 38.5	2.190	3.197	1.0	21.8	9 8	23 15.74	-22 20.3	1.969	2.948	5.7	18.9
9 18	23 8.00	- 4 28.6	2.180	3.176	2.8	21.9	9 18	23 7.47	-23 11.9	1.985	2.936	7.7	19.0
9 28	23 0.91	- 5 16.4	2.198	3.156	6.4	22.1	9 28	22 59.88	-23 43.4	2.026	2.924	10.5	19.1
10 8	22 54.99	- 5 57.2	2.243	3.135	9.8	22.3	10 8	22 53.78	-23 53.1	2.090	2.912	13.2	19.3
10 18	22 50.75	- 6 27.8	2.312	3.113	12.7	22.4	10 18	22 49.73	-23 41.8	2.174	2.899	15.7	19.5
513006	2017 <i>UB</i> ₄₆		9 10.0 233°97	0°8/ 9.3	17		244660	2003 <i>HX</i> ₂₆		9 10.0 21°34	9°0/ 4.5	18	
8 9	23 36.99	- 3 8.3	1.522	2.410	14.6	22.1	8 9	23 34.29	-18 23.8	0.792	1.733	18.6	18.7
8 19	23 31.90	- 4 8.1	1.452	2.404	10.5	21.9	8 19	23 30.80	-19 48.4	0.770	1.743	13.8	18.5
8 29	23 24.59	- 5 23.0	1.404	2.397	5.8	21.6	8 29	23 24.13	-21 5.5	0.766	1.756	9.9	18.4
9 8	23 15.87	- 6 45.9	1.382	2.389	1.1	21.3	9 8	23 15.78	-22 0.3	0.781	1.770	9.3	18.4
9 18	23 6.79	- 8 8.1	1.387	2.381	4.6	21.5	9 18	23 7.56	-22 22.4	0.815	1.786	12.3	18.6
9 28	22 58.59	- 9 20.5	1.418	2.373	9.5	21.8	9 28	23 1.21	-22 8.1	0.868	1.804	16.4	19.0
10 8	22 52.29	-10 16.3	1.473	2.365	13.8	22.0	10 8	22 57.87	-21 20.5	0.938	1.823	20.4	19.3
10 18	22 48.56	-10 51.7	1.548	2.356	17.5	22.2	10 18	22 57.91	-20 6.0	1.023	1.844	23.7	19.6
221495	2006 <i>CK</i> ₅₆		9 10.0 232°23	0°0/10.0	18		100619	1997 <i>TK</i> ₁₄		9 10.0 221°77	1°3/12.9	17	
8 9	23 33.42	- 2 46.4	2.586	3.456	10.0	21.3	8 9	23 26.58	+ 4 31.9	4.642	5.475	6.6	20.0
8 19	23 28.58	- 3 18.9	2.506	3.448	7.2	21.1	8 19	23 23.26	+ 4 2.3	4.557	5.472	5.0	19.9
8 29	23 22.43	- 3 59.8	2.451	3.440	4.1	20.9	8 29	23 19.29	+ 3 25.4	4.497	5.468	3.2	19.8
9 8	23 15.48	- 4 45.6	2.425	3.432	0.7	20.6	9 8	23 14.95	+ 2 42.9	4.467	5.465	1.6	19.6
9 18	23 8.33	- 5 32.3	2.427	3.423	2.7	20.8	9 18	23 10.53	+ 1 56.8	4.466	5.461	1.6	19.6
9 28	23 1.67	- 6 15.6	2.459	3.414	6.0	21.0	9 28	23 6.35	+ 1 9.4	4.496	5.457	3.3	19.8
10 8	22 56.09	- 6 51.6	2.518	3.405	9.0	21.2	10 8	23 2.71	+ 0 23.4	4.555	5.454	5.0	19.9
10 18	22 52.07	- 7 17.7	2.600	3.395	11.6	21.3	10 18	22 59.85	- 0 19.2	4.640	5.450	6.6	20.0
442010	2010 <i>OE</i> ₄₃		9 10.0 323°45	1°7/ 8.7	18		400836	2010 <i>LB</i> ₃₈		9 10.0 351°08	5°9/15.9	18	
8 9	23 38.92	- 9 30.0	1.833	2.724	12.4	20.3	8 9	23 33.11	+12 29.5	1.749	2.575	15.9	19.8
8 19	23 32.97	- 9 33.8	1.759	2.713	8.9	20.1	8 19	23 28.93	+12 40.6	1.674	2.571	13.0	19.6
8 29	23 25.06	- 9 41.3	1.710	2.702	5.0	19.8	8 29	23 22.86	+12 28.5	1.619	2.568	9.7	19.4
9 8	23 15.94	- 9 48.1	1.687	2.692	1.8	19.6	9 8	23 15.59	+11 53.5	1.587	2.565	6.9	19.3
9 18	23 6.55	- 9 50.2	1.691	2.682	4.5	19.8	9 18	23 8.03	+10 59.1	1.581	2.563	6.0	19.2
9 28	22 57.95	- 9 43.8	1.722	2.673	8.5	20.0	9 28	23 1.17	+ 9 51.3	1.600	2.561	8.0	19.3
10 8	22 51.04	- 9 26.7	1.779	2.664	12.2	20.2	10 8	22 55.93	+ 8 38.5	1.644	2.560	11.1	19.5
10 18	22 46.43	- 8 58.0	1.857	2.655	15.4	20.4	10 18	22 52.89	+ 7 28.5	1.710	2.560	14.3	19.7
473414	2015 <i>VE</i> ₁₁₈		9 10.0 352°48	4°4/ 5.9	18		310603	2001 <i>XZ</i> ₂₁		9 10.0 233°17	3°7/14.3	18	
8 9	23 32.80	-13 58.8	1.621	2.532	12.6	19.9	8 9	23 36.17	+ 9 1.4	2.602	3.418	11.6	21.1
8 19	23 28.73	-14 57.9	1.564	2.526	9.1	19.7	8 19	23 30.63	+ 9 9.3	2.509	3.406	9.2	20.9
8 29	23 22.72	-15 59.1	1.530	2.521	5.7	19.5	8 29	23 23.65	+ 9 3.0	2.439	3.394	6.6	20.7
9 8	23 15.54	-16 54.4	1.521	2.517	4.5	19.4	9 8	23 15.73	+ 8 43.3	2.396	3.381	4.3	20.5
9 18	23 8.16	-17 36.9	1.538	2.513	7.0	19.6	9 18	23 7.53	+ 8 12.3	2.382	3.368	4.0	20.5
9 28	23 1.64	-18 0.8	1.579	2.511	10.6	19.8	9 28	22 59.78	+ 7 33.5	2.397	3.354	6.0	20.6
10 8	22 56.86	-18 3.9	1.643	2.509	14.1	20.0	10 8	22 53.14	+ 6 51.8	2.439	3.340	8.7	20.7
10 18	22 54.37	-17 46.4	1.726	2.509	17.0	20.2	10 18	22 48.14	+ 6 11.4	2.506	3.325	11.3	20.9
266263	2006 <i>YG</i> ₄₃		9 10.0 129°82	7°3/16.4	18		130111	1999 <i>XR</i> ₆₇		9 10.0 194°16	0°6/ 9.2	18	
8 9	23 40.95	+14 48.2	1.785	2.584	16.7	20.4	8 9	23 33.37	- 4 50.6	2.682	3.557	9.5	20.7
8 19	23 34.50	+15 29.8	1.717	2.593	13.8	20.2	8 19	23 28.49	- 5 30.7	2.609	3.555	6.8	20.5
8 29	23 25.95	+15 48.0	1.669	2.601	10.7	20.1	8 29	23 22.36	- 6 17.6	2.563	3.553	3.7	20.3
9 8	23 16.10	+15 41.9	1.645	2.609	8.1	19.9	9 8	23 15.50	- 7 7.4	2.544	3.551	0.7	20.1
9 18	23 5.98	+15 13.2	1.647	2.616	7.3	19.9	9 18	23 8.49	- 7 56.2	2.555	3.548	2.9	20.3
9 28	22 56.72	+14 26.8	1.675	2.623	8.8	20.0	9 28	23 1.98	- 8 39.6	2.596	3.545	6.0	20.5
10 8	22 49.29	+13 30.7	1.728	2.630	11.6	20.2	10 8	22 56.53	- 9 14.3	2.663	3.542	8.9	20.7
10 18	22 44.32	+12 32.6	1.804	2.637	14.4	20.4	10 18	22 52.57	- 9 38.3	2.754	3.538	11.3	20.8
462561	2009 <i>DS</i> ₂₄		9 10.0 60°36	2°2/ 8.3	17		59933	1999 <i>RQ</i> ₁₈₆		9 10.0 283°59	0°1/ 9.9	18	
8 9	23 36.90	- 5 18.1	1.173	2.080	16.7	20.7	8 9	23 36.59	- 4 13.3	2.135	3.011	11.5	19.4
8 19	23 31.94	- 6 36.2	1.135	2.097	11.8	20.5	8 19	23 31.06	- 4 24.6	2.062	3.007	8.3	19.2
8 29	23 24.56	- 8 7.2	1.119	2.114	6.4	20.3	8 29	23 23.91	- 4 43.5	2.014	3.003	4.7	19.0
9 8	23 15.85	- 9 40.3	1.126	2.131	2.2	20.0	9 8	23 15.78	- 5 6.7	1.992	2.999	0.8	18.7
9 18	23 7.12	-11 4.2	1.157	2.149	5.9	20.3	9 18	23 7.45	- 5 30.3	2.000	2.995	3.2	18.9
9 28	22 59.75	-12 9.5	1.213	2.167	10.9	20.7	9 28	22 59.77	- 5 49.9	2.035	2.991	6.9	19.1
10 8	22 54.73	-12 51.2	1.291	2.184	15.3	21.0	10 8	22 53.49	- 6 2.3	2.096	2.987	10.4	19.3
10 18	22 52.57	-13 8.2	1.387	2.202	18.9	21.3	10 18	22 49.13	- 6 5.1	2.181	2.983	13.3	19.5
261312	2005 <i>UR</i> ₂₀₃		9 10.0 333°11	0°1/10.0	18		352671	2008 <i>RC</i> ₉₅		9 10.1 257°38	0°7/11.3	18	
8 9	23 34.06	- 2 47.1	2.098	2.976	11.7	21.3	8 9	23 28.26	- 0 16.7	4.410	5.263	6.5	21.1
8 19	23 29.24	- 3 19.8	2.029	2.975	8.4	21.1	8 19	23 24.48	- 0 29.7	4.329	5.259	4.8	21.0
8 29	23 22.87	- 4 2.4	1.985	2.974	4.7	20.9	8 29	23 19.99	- 0 48.0	4.274	5.256	2.9	20.9
9 8	23 15.58	- 4 50.7	1.967	2.974	0.8	20.6	9 8	23 15.09	- 1 10.2	4.248	5.252	1.0	20.7
9 18	23 8.10	- 5 39.6	1.977	2.973	3.2	20.8	9 18	23 10.11	- 1 34.2	4.252	5.248	1.6	20.7
9 28	23 1.27	- 6 24.0	2.015	2.972	6.9	21.0	9 28	23 5.39	- 1 58.2	4.286	5.245	3.5	20.9
10 8	22 55.80	- 6 59.3	2.079	2.972	10.4	21.2	10 8	23 1.26	- 2 20.0	4.348	5.241	5.4	21.0
10 18	22 52.19	- 7 22.7	2.166	2.971	13.3	21.4	10 18	22 57.98	- 2 37.9	4.437	5.237	7.1	21.2
422652	1997 <i>CB</i> ₂₅		9 10.0 95°13	0°4/ 9.8	17		508849	2002 <i>CY</i> ₂₆₄					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
134499	1999 <i>BE</i> ₉		9 10.1 265°07	2°2/ 7.6 18			176693	2002 <i>PF</i> ₁₇₂		9 10.1 72°30	3°0/ 7.4 17		
8 9	23 33.77	- 7 39.9	1.999	2.891	11.5	19.6	8 9	23 37.19	- 7 59.4	1.333	2.238	15.2	20.2
8 19	23 29.21	- 8 49.8	1.924	2.879	8.1	19.4	8 19	23 32.01	- 9 19.8	1.292	2.253	10.7	20.0
8 29	23 22.96	-10 8.3	1.874	2.868	4.5	19.1	8 29	23 24.59	-10 48.9	1.273	2.267	5.9	19.8
9 8	23 15.64	-11 28.8	1.852	2.856	2.2	19.0	9 8	23 15.92	-12 16.6	1.279	2.282	3.1	19.6
9 18	23 8.04	-12 44.2	1.858	2.844	4.8	19.1	9 18	23 7.20	-13 32.9	1.310	2.297	6.3	19.9
9 28	23 1.05	-13 47.8	1.891	2.831	8.6	19.3	9 28	22 59.69	-14 29.9	1.367	2.311	10.8	20.2
10 8	22 55.48	-14 35.0	1.949	2.819	12.0	19.5	10 8	22 54.34	-15 3.5	1.445	2.326	14.8	20.5
10 18	22 51.88	-15 3.6	2.028	2.806	15.0	19.7	10 18	22 51.66	-15 13.6	1.543	2.341	18.1	20.7
91086	1998 <i>FF</i> ₁₂₀		9 10.1 227°22	1°6/ 8.7 18			374959	2007 <i>CV</i> ₄₇		9 10.1 257°02	0°4/10.4 18		
8 9	23 41.38	- 8 43.8	1.918	2.801	12.3	20.2	8 9	23 36.89	- 1 7.2	1.695	2.573	13.9	21.6
8 19	23 34.68	- 8 58.8	1.844	2.794	8.8	20.0	8 19	23 31.75	- 1 45.5	1.614	2.559	10.2	21.3
8 29	23 26.03	- 9 18.6	1.795	2.787	4.9	19.7	8 29	23 24.54	- 2 38.7	1.556	2.545	5.9	21.1
9 8	23 16.17	- 9 38.5	1.773	2.779	1.7	19.5	9 8	23 15.95	- 3 42.0	1.524	2.530	1.2	20.7
9 18	23 6.04	- 9 53.8	1.780	2.770	4.4	19.7	9 18	23 6.95	- 4 48.8	1.518	2.515	3.7	20.9
9 28	22 56.71	-10 0.6	1.814	2.762	8.4	19.9	9 28	22 58.66	- 5 51.4	1.540	2.500	8.4	21.1
10 8	22 49.07	- 9 56.0	1.874	2.752	12.0	20.1	10 8	22 52.08	- 6 43.1	1.587	2.484	12.7	21.3
10 18	22 43.72	- 9 39.1	1.956	2.743	15.2	20.3	10 18	22 47.87	- 7 19.5	1.655	2.469	16.3	21.5
299679	2006 <i>QN</i> ₆₁		9 10.1 339°53	1°6/11.7 18			224766	2006 <i>EP</i> ₆₅		9 10.1 240°81	1°0/11.3 17		
8 9	23 33.31	+ 2 25.6	1.755	2.626	13.9	20.3	8 9	23 32.80	+ 0 56.8	2.641	3.499	10.2	21.7
8 19	23 29.00	+ 1 51.2	1.684	2.622	10.4	20.1	8 19	23 28.16	+ 0 27.3	2.556	3.489	7.5	21.5
8 29	23 22.87	+ 0 59.8	1.636	2.619	6.3	19.8	8 29	23 22.25	+ 0 12.9	2.497	3.479	4.5	21.3
9 8	23 15.62	+ 0 4.2	1.613	2.617	2.3	19.6	9 8	23 15.53	+ 1 0.8	2.464	3.469	1.5	21.1
9 18	23 8.12	+ 1 14.9	1.616	2.614	3.3	19.7	9 18	23 8.61	+ 1 52.5	2.461	3.458	2.5	21.1
9 28	23 1.35	+ 2 24.6	1.647	2.612	7.5	19.9	9 28	23 2.14	+ 2 43.8	2.488	3.448	5.6	21.3
10 8	22 56.15	+ 3 26.4	1.703	2.610	11.4	20.1	10 8	22 56.72	+ 3 30.1	2.541	3.437	8.6	21.5
10 18	22 53.10	+ 4 15.3	1.780	2.608	14.8	20.4	10 18	22 52.79	+ 4 8.2	2.619	3.426	11.2	21.7
75951	2000 <i>CK</i> ₉₀		9 10.1 236°79	2°5/ 7.6 18			379600	2011 <i>CB</i> ₄₂		9 10.1 192°76	4°1/ 6.2 17		
8 9	23 36.40	- 9 46.1	1.898	2.792	11.9	18.7	8 9	23 41.19	-15 12.9	2.058	2.947	11.3	21.2
8 19	23 31.08	-10 32.2	1.834	2.789	8.5	18.5	8 19	23 34.42	-16 2.8	1.995	2.946	8.2	21.0
8 29	23 23.98	-11 23.5	1.794	2.787	4.8	18.3	8 29	23 25.83	-16 52.8	1.957	2.943	5.2	20.8
9 8	23 15.81	-12 13.8	1.781	2.784	2.5	18.1	9 8	23 16.16	-17 36.5	1.947	2.940	4.1	20.8
9 18	23 7.45	-12 57.2	1.796	2.781	5.0	18.3	9 18	23 6.31	-18 8.1	1.966	2.936	6.2	20.9
9 28	22 59.85	-13 28.5	1.838	2.779	8.7	18.5	9 28	22 57.28	-18 23.8	2.012	2.931	9.4	21.1
10 8	22 53.83	-13 44.5	1.904	2.776	12.2	18.7	10 8	22 49.88	-18 21.9	2.082	2.926	12.5	21.3
10 18	22 49.93	-13 44.2	1.991	2.773	15.1	18.9	10 18	22 44.66	-18 3.1	2.174	2.919	15.1	21.4
454505	Suntharalingam		9 10.1 24°45	4°8/ 4.4 16			17516	Kogayukihito		9 10.1 327°56	3°2/12.4 18		
8 9	23 32.84	-16 36.1	2.049	2.953	10.7	20.8	8 9	23 34.46	+ 3 27.8	1.353	2.232	16.7	17.6
8 19	23 28.42	-17 53.3	2.000	2.956	7.8	20.6	8 19	23 30.41	+ 3 30.3	1.277	2.217	12.8	17.3
8 29	23 22.43	-19 9.8	1.976	2.960	5.4	20.5	8 29	23 23.96	+ 3 12.6	1.220	2.202	8.3	17.0
9 8	23 15.54	-20 18.3	1.979	2.965	5.0	20.5	9 8	23 15.88	+ 2 37.2	1.186	2.188	4.0	16.7
9 18	23 8.54	-21 12.8	2.009	2.969	7.0	20.6	9 18	23 7.30	+ 1 49.0	1.177	2.174	4.4	16.7
9 28	23 2.25	-21 48.6	2.065	2.974	9.8	20.8	9 28	22 59.55	+ 0 56.1	1.192	2.162	9.0	17.0
10 8	22 57.40	-22 4.2	2.145	2.979	12.5	21.0	10 8	22 53.80	+ 0 6.9	1.230	2.150	13.7	17.2
10 18	22 54.45	-21 59.9	2.244	2.985	14.8	21.2	10 18	22 50.85	+ 0 31.6	1.287	2.139	17.9	17.4
362837	2012 <i>BU</i> ₂		9 10.1 109°95	5°7/16.3 18			18547	1997 <i>AU</i> ₅		9 10.1 191°04	0°1/ 9.9 18		
8 9	23 36.85	+14 9.1	2.364	3.155	13.3	20.2	8 9	23 37.04	- 4 19.4	2.238	3.112	11.2	18.0
8 19	23 31.16	+14 37.6	2.291	3.162	11.0	20.1	8 19	23 31.31	- 4 32.6	2.167	3.112	8.0	17.8
8 29	23 23.95	+14 48.1	2.239	3.169	8.5	19.9	8 29	23 24.04	- 4 53.0	2.121	3.111	4.5	17.6
9 8	23 15.81	+14 40.5	2.213	3.177	6.4	19.8	9 8	23 15.86	- 5 17.4	2.103	3.110	0.8	17.3
9 18	23 7.47	+14 16.6	2.214	3.184	5.7	19.8	9 18	23 7.50	- 5 41.8	2.114	3.109	3.1	17.5
9 28	22 59.74	+13 39.9	2.243	3.191	7.0	19.9	9 28	22 59.79	- 6 2.3	2.153	3.108	6.7	17.7
10 8	22 53.32	+12 56.0	2.298	3.198	9.2	20.0	10 8	22 53.44	- 6 15.6	2.219	3.107	10.0	17.9
10 18	22 48.70	+12 10.1	2.377	3.204	11.6	20.2	10 18	22 48.93	- 6 19.5	2.307	3.106	12.8	18.1
220809	2004 <i>TE</i> ₂₄₇		9 10.1 327°88	3°3/ 6.2 18			70248	1999 <i>RS</i> ₈₂		9 10.1 252°87	2°5/12.3 18		
8 9	23 32.23	-11 26.0	1.990	2.892	11.1	19.6	8 9	23 35.93	+ 4 28.9	1.506	2.373	16.0	19.3
8 19	23 28.07	-12 40.3	1.926	2.885	7.9	19.4	8 19	23 31.20	+ 3 54.7	1.432	2.367	12.1	19.1
8 29	23 22.30	-13 59.3	1.887	2.879	4.7	19.2	8 29	23 24.27	+ 2 58.5	1.380	2.361	7.7	18.8
9 8	23 15.53	-15 15.9	1.875	2.873	3.4	19.1	9 8	23 15.92	+ 1 44.6	1.353	2.355	3.3	18.5
9 18	23 8.55	-16 23.3	1.891	2.868	5.8	19.2	9 18	23 7.21	+ 0 20.0	1.351	2.349	3.9	18.6
9 28	23 2.23	-17 15.6	1.933	2.862	9.1	19.4	9 28	22 59.34	- 1 5.8	1.376	2.343	8.4	18.8
10 8	22 57.32	-17 49.3	1.999	2.857	12.3	19.6	10 8	22 53.36	- 2 23.6	1.425	2.336	12.9	19.1
10 18	22 54.33	-18 3.4	2.085	2.853	15.0	19.8	10 18	22 49.93	- 3 26.5	1.495	2.330	16.8	19.3
66211	1999 <i>CA</i> ₂₂		9 10.1 298°97	0°8/ 9.4 18			117337	2004 <i>XD</i> ₁₇		9 10.1 310°88	1°0/ 9.2 18		
8 9	23 37.53	- 6 51.7	2.193	3.074	11.1	18.1	8 9	23 36.25	- 5 17.0	1.598	2.491	13.8	19.7
8 19	23 31.84	- 6 57.2	2.104	3.052	8.0	17.9	8 19	23 31.31	- 5 49.8	1.529	2.483	9.9	19.4
8 29	23 24.43	- 7 8.0	2.040	3.031	4.5	17.6	8 29	23 24.27	- 6 33.1	1.482	2.475	5.5	19.2
9 8	23 15.91	- 7 20.8	2.003	3.009	0.9	17.3	9 8	23 15.92	- 7 21.3	1.460	2.467	1.2	18.9
9 18	23 7.05	- 7 32.0	1.994	2.988	3.5	17.5	9 18	23 7.25	- 8 7.6	1.465	2.459	4.4	19.1
9 28	22 58.74	- 7 37.8	2.014	2.967	7.3	17.7	9 28	22 59.42	- 8 45.4	1.496	2.452	9.0	19.3
10 8	22 51.78	- 7 35.3	2.060	2.945	10.8	17.9	10 8	22 53.39	- 9 9.9	1.550	2.445	13.1	19.6
10 18	22 46.76	- 7 22.9	2.129	2.924	13.8	18.1	10 18	22 49.80	- 9 18.4	1.625	2.438	16.7	19.8
453457	2009 <i>ST</i> ₂₆		9 10.1 254°58	1°0/ 9.0 18			262269	2006 <i>SD</i> ₃₄₈		9 10.1 1			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
268916	2007 <i>CB</i> ₂₄	9 10.1 125°00 0°7/10.7 17					478770	2012 <i>UD</i> ₁₂₄	9 10.1 183°09 1°0/11.1 18				
8 9	23 37.76	- 0 12.7	1.778	2.649	13.7	21.8	8 9	23 36.97	- 0 4.4	1.958	2.825	12.8	21.5
8 19	23 32.06	- 0 49.2	1.719	2.660	10.0	21.5	8 19	23 31.47	- 0 24.1	1.887	2.826	9.4	21.3
8 29	23 24.53	- 1 39.3	1.684	2.671	5.8	21.3	8 29	23 24.24	- 0 56.0	1.840	2.826	5.6	21.0
9 8	23 15.94	- 2 38.1	1.675	2.681	1.4	21.1	9 8	23 15.95	- 1 36.7	1.820	2.825	1.7	20.8
9 18	23 7.23	- 3 39.4	1.694	2.691	3.4	21.2	9 18	23 7.44	- 2 21.4	1.828	2.825	3.1	20.9
9 28	22 59.40	- 4 36.4	1.740	2.700	7.6	21.5	9 28	22 59.66	- 3 4.4	1.863	2.824	7.1	21.1
10 8	22 53.26	- 5 23.6	1.812	2.709	11.4	21.8	10 8	22 53.39	- 3 40.7	1.925	2.823	10.7	21.4
10 18	22 49.35	- 5 57.4	1.906	2.718	14.6	22.0	10 18	22 49.19	- 4 6.8	2.009	2.822	13.9	21.6
102297	1999 <i>TH</i> ₈₅	9 10.1 114°69 5°5/15.7 18					275692	2000 <i>SB</i> ₁₇₄	9 10.1 333°59 8°9/18.9 18				
8 9	23 36.66	+13 7.5	1.635	2.456	17.0	19.8	8 9	23 32.82	+19 8.7	1.520	2.319	19.1	19.9
8 19	23 31.47	+12 44.9	1.571	2.468	13.7	19.6	8 19	23 29.10	+19 23.9	1.442	2.312	16.3	19.7
8 29	23 24.28	+11 55.1	1.528	2.480	10.0	19.4	8 29	23 23.18	+19 6.9	1.381	2.305	13.2	19.5
9 8	23 15.91	+10 40.6	1.509	2.491	6.6	19.3	9 8	23 15.81	+18 15.9	1.342	2.298	10.3	19.3
9 18	23 7.36	+ 9 7.2	1.516	2.502	5.6	19.2	9 18	23 8.01	+16 53.5	1.325	2.293	8.9	19.2
9 28	22 59.74	+ 7 24.1	1.549	2.513	8.0	19.4	9 28	23 1.00	+15 7.3	1.332	2.287	9.9	19.3
10 8	22 53.95	+ 5 41.5	1.608	2.523	11.4	19.6	10 8	22 55.86	+13 9.3	1.363	2.282	12.7	19.4
10 18	22 50.55	+ 4 8.2	1.690	2.533	14.8	19.9	10 18	22 53.30	+11 11.5	1.416	2.278	16.0	19.6
480014	2014 <i>OF</i> ₂₃₅	9 10.1 171°39 4°2/15.4 18					398501	2011 <i>UR</i> ₁₉₁	9 10.1 339°75 4°9/14.4 18				
8 9	23 33.88	+12 11.6	2.351	3.158	12.9	21.4	8 9	23 32.15	+ 8 52.2	1.513	2.367	16.6	20.3
8 19	23 29.05	+11 45.4	2.271	3.161	10.3	21.2	8 19	23 28.54	+ 8 52.6	1.436	2.356	13.2	20.0
8 29	23 22.78	+10 59.9	2.215	3.163	7.5	21.1	8 29	23 22.84	+ 8 29.2	1.379	2.346	9.3	19.8
9 8	23 15.64	+ 9 56.9	2.184	3.165	5.0	20.9	9 8	23 15.76	+ 7 43.3	1.345	2.337	5.8	19.5
9 18	23 8.32	+ 8 40.4	2.181	3.166	4.3	20.9	9 18	23 8.28	+ 6 39.4	1.336	2.328	5.2	19.5
9 28	23 1.57	+ 7 16.2	2.207	3.167	6.2	21.0	9 28	23 1.57	+ 5 25.3	1.351	2.320	8.3	19.7
10 8	22 56.06	+ 5 51.0	2.260	3.168	8.9	21.2	10 8	22 56.62	+ 4 10.4	1.391	2.313	12.3	19.9
10 18	22 52.27	+ 4 31.0	2.339	3.168	11.6	21.4	10 18	22 54.12	+ 3 3.0	1.451	2.307	16.0	20.1
778	Theobalda	9 10.1 283°96 3°2/13.2 18					490388	2009 <i>PP</i> ₁₈	9 10.1 320°37 1°5/10.9 18				
8 9	23 36.57	+ 5 47.1	2.427	3.261	11.8	14.9	8 9	23 38.27	- 1 44.1	1.236	2.130	16.9	21.1
8 19	23 31.11	+ 6 1.5	2.325	3.237	9.2	14.7	8 19	23 33.46	- 1 29.4	1.159	2.110	12.6	20.8
8 29	23 24.05	+ 6 3.3	2.247	3.213	6.3	14.4	8 29	23 25.87	- 1 28.9	1.102	2.091	7.6	20.5
9 8	23 15.91	+ 5 53.3	2.195	3.188	3.7	14.2	9 8	23 16.34	- 1 39.4	1.067	2.073	2.3	20.1
9 18	23 7.37	+ 5 33.6	2.172	3.163	3.6	14.2	9 18	23 6.15	- 1 56.2	1.057	2.055	4.4	20.2
9 28	22 59.24	+ 5 7.5	2.178	3.139	6.3	14.3	9 28	22 56.88	- 2 12.7	1.070	2.038	10.1	20.4
10 8	22 52.27	+ 4 39.4	2.211	3.114	9.4	14.5	10 8	22 49.89	- 2 22.5	1.106	2.022	15.3	20.7
10 18	22 47.05	+ 4 13.6	2.268	3.088	12.3	14.6	10 18	22 46.08	- 2 21.0	1.160	2.007	19.8	20.9
400506	2008 <i>KP</i> ₄₁	9 10.1 57°45 3°8/14.9 18					154976	2004 <i>UA</i> ₁	9 10.1 85°87 3°4/13.7 18				
8 9	23 32.75	+11 3.3	1.989	2.815	14.3	20.8	8 9	23 35.83	+ 6 42.4	2.265	3.099	12.5	19.7
8 19	23 28.27	+10 17.0	1.937	2.841	11.2	20.7	8 19	23 30.48	+ 6 50.5	2.193	3.105	9.7	19.5
8 29	23 22.32	+ 9 9.7	1.908	2.867	7.8	20.5	8 29	23 23.63	+ 6 44.1	2.145	3.110	6.6	19.3
9 8	23 15.57	+ 7 45.1	1.904	2.893	4.7	20.4	9 8	23 15.89	+ 6 24.7	2.123	3.115	4.0	19.2
9 18	23 8.80	+ 6 9.4	1.927	2.919	4.0	20.4	9 18	23 7.97	+ 5 55.2	2.129	3.120	3.7	19.2
9 28	23 2.81	+ 4 30.3	1.979	2.945	6.4	20.6	9 28	23 0.67	+ 5 19.8	2.163	3.125	6.2	19.3
10 8	22 58.25	+ 2 55.6	2.058	2.971	9.4	20.9	10 8	22 54.68	+ 4 43.3	2.224	3.130	9.2	19.5
10 18	22 55.55	+ 1 31.4	2.162	2.997	12.3	21.1	10 18	22 50.48	+ 4 10.3	2.309	3.135	11.9	19.7
507245	2011 <i>BC</i> ₈₁	9 10.1 131°45 1°1/ 8.9 17					299753	2006 <i>RR</i> ₁₀₀	9 10.1 350°34 5°0/ 6.5 18				
8 9	23 37.09	- 4 0.2	1.836	2.718	12.8	22.0	8 9	23 37.95	-15 49.5	1.463	2.372	13.8	19.7
8 19	23 31.54	- 5 8.0	1.781	2.730	9.1	21.8	8 19	23 32.66	-16 22.7	1.406	2.366	10.1	19.5
8 29	23 24.23	- 6 26.5	1.750	2.742	5.0	21.6	8 29	23 25.10	-16 54.8	1.372	2.361	6.5	19.2
9 8	23 15.92	- 7 48.9	1.747	2.754	1.1	21.4	9 8	23 16.16	-17 18.3	1.361	2.357	5.0	19.2
9 18	23 7.50	- 9 7.8	1.772	2.764	4.1	21.6	9 18	23 7.03	-17 26.9	1.376	2.353	7.5	19.3
9 28	22 59.94	-10 16.1	1.825	2.775	8.1	21.9	9 28	22 58.96	-17 16.4	1.416	2.350	11.4	19.5
10 8	22 54.01	-11 8.9	1.903	2.785	11.7	22.1	10 8	22 52.96	-16 46.0	1.477	2.349	15.1	19.7
10 18	22 50.22	-11 43.9	2.003	2.794	14.7	22.4	10 18	22 49.65	-15 57.2	1.558	2.348	18.3	20.0
177213	2003 <i>UT</i> ₁₄₇	9 10.1 309°42 4°6/ 6.9 18					205384	2001 <i>BP</i> ₆₉	9 10.1 240°96 0°0/10.1 18				
8 9	23 38.55	-12 31.6	1.233	2.146	15.6	19.6	8 9	23 39.65	- 3 46.5	2.201	3.070	11.5	21.1
8 19	23 33.62	-13 18.8	1.164	2.128	11.3	19.3	8 19	23 33.39	- 4 0.3	2.113	3.054	8.4	20.8
8 29	23 25.88	-14 11.2	1.116	2.109	6.8	19.0	8 29	23 25.39	- 4 22.2	2.050	3.038	4.8	20.6
9 8	23 16.26	-14 59.6	1.091	2.092	4.6	18.8	9 8	23 16.24	- 4 49.1	2.014	3.021	0.8	20.3
9 18	23 6.10	-15 34.4	1.091	2.074	7.9	18.9	9 18	23 6.75	- 5 16.9	2.008	3.004	3.2	20.4
9 28	22 56.99	-15 48.3	1.113	2.057	12.7	19.2	9 28	22 57.83	- 5 41.1	2.031	2.985	7.1	20.6
10 8	22 50.26	-15 38.0	1.156	2.041	17.4	19.4	10 8	22 50.29	- 5 58.0	2.080	2.967	10.6	20.8
10 18	22 46.73	-15 4.0	1.216	2.025	21.4	19.6	10 18	22 44.74	- 6 5.2	2.153	2.948	13.7	21.0
323280	2003 <i>SB</i> ₄₃₀	9 10.1 326°04 3°1/ 7.4 18					313305	2002 <i>CU</i> ₃₀₅	9 10.1 142°53 1°8/ 8.8 17				
8 9	23 40.77	-14 53.2	2.250	3.137	10.6	20.4	8 9	23 42.83	- 7 43.9	1.547	2.436	14.4	20.8
8 19	23 33.96	-15 1.1	2.185	3.134	7.7	20.2	8 19	23 35.97	- 8 13.8	1.491	2.444	10.3	20.6
8 29	23 25.52	-15 7.8	2.145	3.132	4.7	20.0	8 29	23 26.88	- 8 50.9	1.459	2.451	5.7	20.3
9 8	23 16.15	-15 9.1	2.133	3.131	3.1	19.9	9 8	23 16.49	- 9 28.8	1.453	2.458	1.8	20.1
9 18	23 6.67	-15 1.6	2.150	3.129	5.0	20.1	9 18	23 5.97	-10 1.0	1.473	2.465	4.9	20.3
9 28	22 57.96	-14 43.1	2.195	3.127	8.1	20.3	9 28	22 56.57	-10 22.1	1.521	2.471	9.4	20.6
10 8	22 50.75	-14 12.7	2.267	3.125	11.0	20.4	10 8	22 49.27	-10 28.8	1.592	2.476	13.5	20.9
10 18	22 45.54	-13 31.1	2.361	3.124	13.6	20.6	10 18	22 44.64	-10 20.2	1.684	2.481	16.8	21.1
143399	2003 <i>BU</i> ₃₄	9 10.1 220°51 2°9/ 6.8 18					69657	1998 <i>FX</i> ₁₀₈	9 10.1 69°73 3°9/13.4 18				

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
503907	2002 <i>CD</i> ₆₆		9 10.1 232°56	3°0/12.2 17			35356	Vondrák		9 10.1 346°32	0°4/ 9.9 18		
8 9	23 41.76	+ 3 10.8	1.571	2.431	15.8	21.8	8 9	23 39.29	- 5 18.3	1.064	1.973	17.9	18.9
8 19	23 35.46	+ 3 19.3	1.492	2.422	12.0	21.5	8 19	23 34.30	- 5 16.0	1.005	1.966	13.0	18.6
8 29	23 26.78	+ 3 10.9	1.435	2.413	7.8	21.2	8 29	23 26.33	- 5 25.6	0.966	1.960	7.4	18.3
9 8	23 16.51	+ 2 47.6	1.403	2.403	3.7	21.0	9 8	23 16.46	- 5 41.6	0.948	1.955	1.3	17.9
9 18	23 5.76	+ 2 13.5	1.397	2.393	4.2	21.0	9 18	23 6.18	- 5 57.2	0.954	1.951	5.1	18.2
9 28	22 55.86	+ 1 34.8	1.419	2.383	8.5	21.2	9 28	22 57.19	- 6 5.6	0.982	1.948	11.0	18.5
10 8	22 47.92	+ 0 58.3	1.465	2.372	12.9	21.5	10 8	22 50.86	- 6 1.4	1.032	1.946	16.3	18.8
10 18	22 42.70	+ 0 29.9	1.532	2.360	16.7	21.7	10 18	22 47.94	- 5 42.4	1.098	1.945	20.7	19.1
288736	2004 <i>RK</i> ₄₈		9 10.1 7°74	1°2/ 8.9 18			111394	2001 <i>XQ</i> ₁₆₇		9 10.1 36°22	4°2/ 5.8 18		
8 9	23 31.66	- 4 48.7	1.640	2.538	13.3	20.0	8 9	23 34.65	-13 58.2	1.806	2.710	11.9	19.0
8 19	23 27.91	- 5 46.1	1.582	2.539	9.4	19.7	8 19	23 29.91	-15 6.9	1.758	2.716	8.5	18.8
8 29	23 22.34	- 6 54.7	1.547	2.541	5.2	19.5	8 29	23 23.41	-16 16.9	1.733	2.722	5.4	18.6
9 8	23 15.70	- 8 7.7	1.537	2.544	1.3	19.2	9 8	23 15.91	-17 20.8	1.735	2.729	4.3	18.6
9 18	23 8.88	- 9 17.4	1.554	2.547	4.4	19.5	9 18	23 8.29	-18 11.7	1.763	2.736	6.6	18.7
9 28	23 2.86	-10 16.6	1.597	2.552	8.6	19.7	9 28	23 1.53	-18 44.7	1.818	2.743	9.9	18.9
10 8	22 58.47	-11 0.0	1.664	2.557	12.5	20.0	10 8	22 56.38	-18 57.6	1.895	2.750	13.0	19.1
10 18	22 56.24	-11 24.9	1.751	2.563	15.7	20.2	10 18	22 53.36	-18 50.8	1.992	2.757	15.7	19.4
390758	2003 <i>ST</i> ₃₃₁		9 10.1 234°70	2°1/ 8.1 18			494391	2016 <i>UF</i> ₅₁		9 10.1 308°91	6°0/16.0 16		
8 9	23 38.64	- 9 34.3	2.061	2.947	11.5	21.5	8 9	23 32.84	+13 11.9	1.674	2.500	16.5	21.2
8 19	23 32.70	-10 8.4	1.986	2.937	8.2	21.3	8 19	23 29.01	+13 7.9	1.586	2.483	13.5	21.0
8 29	23 24.99	-10 47.2	1.936	2.927	4.6	21.1	8 29	23 23.14	+12 37.5	1.517	2.466	10.2	20.7
9 8	23 16.18	-11 25.6	1.913	2.916	2.1	20.9	9 8	23 15.90	+11 40.9	1.470	2.450	7.1	20.5
9 18	23 7.09	-11 58.4	1.918	2.905	4.6	21.0	9 18	23 8.19	+10 21.7	1.449	2.434	6.1	20.4
9 28	22 58.69	-12 21.0	1.952	2.894	8.2	21.2	9 28	23 1.12	+ 8 47.5	1.453	2.418	8.3	20.5
10 8	22 51.78	-12 30.5	2.011	2.882	11.7	21.4	10 8	22 55.69	+ 7 8.1	1.483	2.402	11.9	20.7
10 18	22 46.94	-12 25.6	2.091	2.870	14.6	21.6	10 18	22 52.59	+ 5 33.4	1.534	2.387	15.4	20.9
40850	1999 <i>TR</i> ₁₀₄		9 10.1 248°36	3°6/14.6 18			25959	2001 <i>FZ</i> ₁₈		9 10.1 20°52	2°4/12.1 18		
8 9	23 32.85	+ 9 35.2	2.340	3.164	12.5	19.4	8 9	23 34.96	+ 3 18.8	1.218	2.103	17.8	18.3
8 19	23 28.41	+ 9 15.9	2.256	3.158	9.8	19.2	8 19	23 30.78	+ 2 53.8	1.162	2.107	13.4	18.0
8 29	23 22.53	+ 8 39.0	2.194	3.152	6.9	19.0	8 29	23 24.17	+ 2 5.8	1.126	2.111	8.3	17.8
9 8	23 15.74	+ 7 46.6	2.158	3.146	4.3	18.8	9 8	23 16.07	+ 0 59.8	1.112	2.116	3.4	17.5
9 18	23 8.73	+ 6 42.1	2.150	3.140	3.8	18.8	9 18	23 7.72	- 0 15.8	1.123	2.121	4.2	17.6
9 28	23 2.23	+ 5 31.0	2.171	3.134	6.1	18.9	9 28	23 0.49	- 1 30.6	1.158	2.128	9.2	17.9
10 8	22 56.92	+ 4 19.5	2.218	3.128	9.0	19.1	10 8	22 55.46	- 2 35.2	1.215	2.134	13.9	18.2
10 18	22 53.30	+ 3 13.1	2.290	3.121	11.8	19.3	10 18	22 53.27	- 3 23.1	1.292	2.142	18.0	18.4
515689	2014 <i>PX</i> ₆₁		9 10.1 34°29	3°0/12.6 18			151486	2002 <i>JM</i> ₂₂		9 10.1 172°64	6°5/ 2.4 18		
8 9	23 37.58	+ 3 12.4	1.706	2.568	14.6	20.6	8 9	23 39.09	-26 53.9	2.511	3.393	9.8	20.1
8 19	23 31.98	+ 3 31.7	1.654	2.584	11.1	20.4	8 19	23 32.73	-27 45.5	2.464	3.394	7.9	20.0
8 29	23 24.55	+ 3 36.0	1.625	2.602	7.1	20.3	8 29	23 24.86	-28 28.6	2.443	3.396	6.7	19.9
9 8	23 16.09	+ 3 27.2	1.621	2.620	3.6	20.1	9 8	23 16.17	-28 57.6	2.448	3.397	6.8	19.9
9 18	23 7.56	+ 3 9.2	1.643	2.639	3.8	20.1	9 18	23 7.42	-29 8.6	2.481	3.398	8.1	20.0
9 28	22 59.97	+ 2 46.7	1.693	2.658	7.3	20.4	9 28	22 59.43	-28 59.8	2.539	3.399	10.1	20.1
10 8	22 54.13	+ 2 25.2	1.767	2.677	10.8	20.7	10 8	22 52.88	-28 31.8	2.620	3.399	12.0	20.3
10 18	22 50.55	+ 2 8.9	1.863	2.697	14.0	20.9	10 18	22 48.21	-27 46.7	2.722	3.399	13.8	20.4
269446	2009 <i>SJ</i> ₂₃₈		9 10.1 322°27	3°1/ 7.4 18			173368	2000 <i>AG</i> ₉₃		9 10.1 172°36	13°4/18.9 18		
8 9	23 33.59	- 7 41.3	1.283	2.195	15.2	20.0	8 9	23 46.08	+21 46.7	1.272	2.053	23.1	20.0
8 19	23 29.87	- 8 58.5	1.217	2.182	10.8	19.7	8 19	23 39.32	+23 29.3	1.206	2.055	20.2	19.8
8 29	23 23.72	-10 28.7	1.174	2.169	6.1	19.4	8 29	23 29.31	+24 38.6	1.157	2.056	17.2	19.6
9 8	23 15.99	-12 2.0	1.153	2.157	3.1	19.2	9 8	23 17.04	+25 7.2	1.127	2.057	14.6	19.4
9 18	23 7.83	-13 27.4	1.158	2.146	6.7	19.2	9 18	23 4.03	+24 52.3	1.117	2.058	13.4	19.4
9 28	23 0.61	-14 34.4	1.187	2.135	11.6	19.6	9 28	22 52.15	+23 58.6	1.130	2.058	14.2	19.4
10 8	22 55.49	-15 16.6	1.236	2.125	16.2	19.9	10 8	22 42.98	+22 38.0	1.164	2.058	16.6	19.6
10 18	22 53.19	-15 32.2	1.304	2.116	20.0	20.1	10 18	22 37.49	+21 4.9	1.216	2.057	19.4	19.8
119474	2001 <i>UW</i> ₁₉		9 10.1 232°01	2°3/ 7.9 17			516384	2018 <i>CS</i> ₉		9 10.1 256°14	2°8/11.9 18		
8 9	23 36.21	- 7 14.6	1.724	2.618	12.9	20.3	8 9	23 44.45	+ 1 18.4	1.824	2.678	14.2	19.9
8 19	23 31.21	- 8 24.0	1.656	2.612	9.2	20.1	8 19	23 37.10	+ 1 59.3	1.746	2.673	10.8	19.7
8 29	23 24.25	- 9 43.0	1.612	2.606	5.1	19.8	8 29	23 27.58	+ 2 29.1	1.691	2.668	6.9	19.5
9 8	23 16.06	-11 4.2	1.595	2.599	2.3	19.6	9 8	23 16.69	+ 2 48.7	1.663	2.663	3.3	19.3
9 18	23 7.59	-12 19.6	1.605	2.592	5.2	19.8	9 18	23 5.43	+ 2 59.8	1.664	2.658	3.9	19.3
9 28	22 59.89	-13 21.6	1.642	2.585	9.4	20.1	9 28	22 54.99	+ 3 5.5	1.693	2.653	7.7	19.5
10 8	22 53.88	-14 5.3	1.702	2.578	13.2	20.3	10 8	22 46.35	+ 3 9.8	1.748	2.648	11.6	19.7
10 18	22 50.16	-14 28.6	1.783	2.571	16.4	20.5	10 18	22 40.19	+ 3 16.5	1.826	2.643	14.9	19.9
62863	2000 <i>UG</i> ₈₁		9 10.1 245°06	1°9/ 8.3 18			112008	2002 <i>GA</i> ₁₅₄		9 10.1 354°93	11°5/30.1 18		
8 9	23 36.29	- 7 1.9	1.833	2.724	12.4	19.6	8 9	23 35.27	-31 46.3	1.476	2.377	14.3	17.8
8 19	23 31.19	- 7 57.1	1.761	2.715	8.9	19.4	8 19	23 30.92	-33 11.2	1.439	2.369	12.4	17.7
8 29	23 24.22	- 9 1.1	1.714	2.706	4.9	19.1	8 29	23 24.19	-34 18.8	1.423	2.363	11.5	17.6
9 8	23 16.06	-10 7.6	1.692	2.697	1.9	18.9	9 8	23 16.08	-34 59.1	1.428	2.359	12.1	17.7
9 18	23 7.62	-11 9.7	1.699	2.688	4.7	19.1	9 18	23 7.86	-35 5.6	1.456	2.356	13.9	17.8
9 28	22 59.89	-12 0.8	1.732	2.679	8.8	19.3	9 28	23 0.84	-34 36.5	1.503	2.354	16.2	17.9
10 8	22 53.75	-12 36.3	1.790	2.669	12.5	19.5	10 8	22 56.03	-33 35.0	1.568	2.353	18.5	18.1
10 18	22 49.80	-12 54.1	1.870	2.659	15.7	19.7	10 18	22 53.97	-32 6.6	1.650	2.354	20.6	18.3
84679	2002 <i>VC</i> ₈₉		9 10.1 275°77	0°4/10.5 18			176346	2001 <i>TC</i> ₁₇					

EPHEMERIDES

9 10.1

9 10.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
59315	1999 <i>CC</i> ₈₉		9 10.1 292°08	1.8/ 8.6	18		285851	2001 <i>FQ</i> ₁₆₈		9 10.1 206°04	3.2/ 6.9	18	
8 9	23 36.38	- 6 5.8	1.508	2.405	14.2	19.2	8 9	23 39.21	-13 6.1	2.125	3.014	11.0	21.1
8 19	23 31.74	- 6 57.1	1.426	2.383	10.3	18.9	8 19	23 33.06	-13 48.2	2.058	3.010	7.9	20.9
8 29	23 24.78	- 8 1.0	1.367	2.361	5.7	18.6	8 29	23 25.19	-14 31.9	2.016	3.005	4.8	20.7
9 8	23 16.24	- 9 10.7	1.333	2.339	1.8	18.3	9 8	23 16.30	-15 11.7	2.002	3.000	3.3	20.6
9 18	23 7.15	-10 17.6	1.325	2.317	5.2	18.5	9 18	23 7.22	-15 42.4	2.017	2.994	5.4	20.7
9 28	22 58.79	-11 13.3	1.342	2.295	10.2	18.7	9 28	22 58.85	-15 59.8	2.059	2.988	8.7	20.9
10 8	22 52.30	-11 51.3	1.382	2.273	14.7	18.9	10 8	22 51.99	-16 1.9	2.126	2.982	11.8	21.1
10 18	22 48.45	-12 8.7	1.442	2.251	18.6	19.1	10 18	22 47.17	-15 48.6	2.215	2.975	14.4	21.3
474136	1995 <i>SC</i> ₇₅		9 10.1 330°60	2.1/ 8.3	18		426068	2012 <i>CC</i> ₁₂		9 10.1 119°91	0.6/ 9.6	15	
8 9	23 36.27	- 7 44.3	1.550	2.450	13.8	21.5	8 9	23 41.10	- 4 3.9	1.583	2.466	14.5	21.9
8 19	23 31.41	- 8 27.7	1.487	2.445	9.8	21.2	8 19	23 34.66	- 4 41.5	1.531	2.480	10.4	21.7
8 29	23 24.44	- 9 19.5	1.446	2.440	5.5	21.0	8 29	23 26.15	- 5 29.9	1.503	2.494	5.7	21.4
9 8	23 16.16	-10 13.0	1.430	2.435	2.1	20.8	9 8	23 16.46	- 6 23.0	1.500	2.507	1.0	21.1
9 18	23 7.60	-11 0.9	1.440	2.431	5.2	21.0	9 18	23 6.70	- 7 14.0	1.525	2.520	4.1	21.4
9 28	22 59.94	-11 36.6	1.476	2.427	9.6	21.2	9 28	22 58.02	- 7 56.4	1.577	2.532	8.7	21.7
10 8	22 54.14	-11 55.8	1.535	2.423	13.6	21.4	10 8	22 51.32	- 8 25.5	1.653	2.544	12.7	22.0
10 18	22 50.81	-11 56.9	1.614	2.420	17.1	21.7	10 18	22 47.14	- 8 39.1	1.751	2.555	16.0	22.2
348134	2004 <i>BD</i> ₁₀₆		9 10.1 253°07	2.3/ 7.7	18		99492	2002 <i>CZ</i> ₂₃₁		9 10.1 177°65	1.4/ 11.7	18	
8 9	23 36.41	- 9 25.9	2.070	2.960	11.3	21.2	8 9	23 36.62	+ 2 13.5	2.179	3.034	12.2	20.4
8 19	23 31.15	-10 14.7	1.993	2.947	8.0	21.0	8 19	23 31.15	+ 1 41.3	2.106	3.036	9.1	20.2
8 29	23 24.18	-11 9.2	1.941	2.933	4.5	20.8	8 29	23 24.10	+ 0 55.6	2.056	3.037	5.5	20.0
9 8	23 16.11	-12 3.8	1.917	2.920	2.3	20.6	9 8	23 16.11	- 0 0.1	2.034	3.038	2.0	19.8
9 18	23 7.75	-12 52.6	1.920	2.906	4.8	20.7	9 18	23 7.92	- 1 1.0	2.041	3.038	2.9	19.9
9 28	23 0.02	-13 30.4	1.952	2.891	8.4	20.9	9 28	23 0.36	- 2 1.2	2.077	3.038	6.5	20.1
10 8	22 53.70	-13 53.5	2.008	2.877	11.8	21.1	10 8	22 54.16	- 2 55.4	2.139	3.037	9.9	20.3
10 18	22 49.38	-14 0.5	2.086	2.862	14.7	21.3	10 18	22 49.84	- 3 39.6	2.225	3.036	12.8	20.5
133278	2003 <i>SA</i> ₁₇		9 10.1 305°60	0.2/ 9.9	17		220369	2003 <i>OZ</i> ₉		9 10.1 74°30	1.0/ 8.9	18	
8 9	23 33.14	- 3 3.1	2.092	2.973	11.6	19.8	8 9	23 32.58	- 4 29.0	2.168	3.051	11.1	20.1
8 19	23 28.83	- 3 37.8	2.005	2.952	8.4	19.5	8 19	23 28.21	- 5 34.5	2.109	3.059	7.8	19.9
8 29	23 22.89	- 4 23.2	1.942	2.932	4.8	19.3	8 29	23 22.42	- 6 48.8	2.075	3.068	4.3	19.7
9 8	23 15.89	- 5 15.1	1.905	2.912	0.8	19.0	9 8	23 15.80	- 8 6.5	2.070	3.076	1.1	19.5
9 18	23 8.55	- 6 8.4	1.897	2.892	3.3	19.1	9 18	23 9.07	- 9 21.2	2.092	3.084	3.6	19.7
9 28	23 1.73	- 6 57.4	1.915	2.873	7.2	19.3	9 28	23 2.97	-10 27.1	2.143	3.093	7.1	19.9
10 8	22 56.22	- 7 37.1	1.960	2.853	10.8	19.5	10 8	22 58.16	-11 19.8	2.220	3.101	10.3	20.1
10 18	22 52.57	- 8 4.1	2.027	2.834	14.0	19.7	10 18	22 55.09	-11 56.8	2.319	3.109	13.0	20.4
86854	2000 <i>HF</i> ₅		9 10.1 133°40	6.3/ 17.2	18		149559	2003 <i>OG</i> ₁		9 10.1 120°89	3.3/ 13.9	18	
8 9	23 37.06	+16 27.7	1.923	2.714	16.0	19.9	8 9	23 37.23	+ 7 30.0	2.629	3.449	11.3	19.8
8 19	23 31.64	+16 16.2	1.854	2.725	13.2	19.7	8 19	23 31.31	+ 7 39.6	2.561	3.463	8.8	19.6
8 29	23 24.43	+15 39.0	1.806	2.737	10.1	19.5	8 29	23 24.09	+ 7 36.3	2.517	3.476	6.1	19.5
9 8	23 16.15	+14 37.4	1.781	2.747	7.4	19.4	9 8	23 16.11	+ 7 21.2	2.501	3.489	3.8	19.4
9 18	23 7.69	+13 15.2	1.782	2.758	6.3	19.3	9 18	23 8.01	+ 6 56.9	2.513	3.502	3.5	19.4
9 28	23 0.02	+11 39.8	1.811	2.767	7.7	19.5	9 28	23 0.50	+ 6 26.6	2.555	3.514	5.6	19.5
10 8	22 53.97	+10 0.2	1.867	2.776	10.4	19.6	10 8	22 54.16	+ 5 54.8	2.625	3.526	8.1	19.7
10 18	22 50.06	+ 8 24.7	1.947	2.785	13.3	19.8	10 18	22 49.43	+ 5 25.0	2.720	3.537	10.5	19.9
170018	2002 <i>UU</i> ₂₃		9 10.1 293°68	1.9/ 11.9	18		389314	2009 <i>SH</i> ₁₁₄		9 10.1 265°22	0.6/ 9.1	16	
8 9	23 35.89	+ 2 15.6	1.895	2.758	13.4	20.1	8 9	23 29.71	- 7 13.9	4.455	5.328	6.1	21.4
8 19	23 30.83	+ 2 1.6	1.823	2.756	10.0	19.9	8 19	23 25.59	- 7 27.9	4.374	5.319	4.3	21.2
8 29	23 24.00	+ 1 33.1	1.774	2.755	6.2	19.6	8 29	23 20.77	- 7 44.6	4.321	5.311	2.4	21.1
9 8	23 16.08	+ 0 53.2	1.751	2.753	2.6	19.4	9 8	23 15.51	- 8 2.0	4.296	5.302	0.6	20.9
9 18	23 7.92	+ 0 6.6	1.755	2.752	3.2	19.4	9 18	23 10.17	- 8 18.3	4.302	5.294	1.9	21.0
9 28	23 0.46	- 0 41.0	1.786	2.750	7.1	19.7	9 28	23 5.09	- 8 31.7	4.338	5.285	3.9	21.2
10 8	22 54.53	- 1 23.8	1.843	2.749	10.8	19.9	10 8	23 0.61	- 8 40.5	4.402	5.277	5.8	21.3
10 18	22 50.68	- 1 57.4	1.923	2.747	14.0	20.1	10 18	22 56.99	- 8 43.7	4.492	5.268	7.4	21.4
468730	2010 <i>MN</i> ₅₁		9 10.1 63°49	19.7/ 20.5	18		34284	Seancampbell		9 10.1 103°36	4.0/ 7.1	18	
8 9	23 38.54	-17 55.5	0.447	1.407	23.8	18.5	8 9	23 41.78	-11 47.2	1.406	2.308	14.8	18.6
8 19	23 35.16	-29 32.3	0.469	1.440	19.8	18.5	8 19	23 35.33	-12 48.0	1.364	2.322	10.5	18.4
8 29	23 27.11	-39 1.1	0.518	1.475	21.4	18.9	8 29	23 26.57	-13 52.1	1.345	2.336	6.2	18.2
9 8	23 16.60	-45 34.2	0.591	1.509	25.4	19.3	9 8	23 16.56	-14 50.5	1.351	2.350	4.0	18.1
9 18	23 6.53	-49 25.0	0.679	1.543	29.0	19.8	9 18	23 6.52	-15 35.3	1.383	2.364	6.9	18.3
9 28	22 59.57	-51 9.6	0.778	1.577	31.7	20.2	9 28	22 57.77	-16 0.8	1.440	2.377	11.0	18.6
10 8	22 57.09	-51 25.3	0.884	1.610	33.4	20.6	10 8	22 51.26	-16 4.9	1.520	2.390	14.8	18.8
10 18	22 59.13	-50 39.8	0.994	1.643	34.4	20.9	10 18	22 47.52	-15 48.8	1.618	2.402	17.9	19.1
312610	2009 <i>RA</i> ₆₃		9 10.1 289°91	0.5/ 9.1	16		476814	2008 <i>UB</i> ₂₀₆		9 10.1 279°59	7.6/ 17.6	18	
8 9	23 28.58	- 6 31.9	4.221	5.096	6.3	20.6	8 9	23 35.30	+17 10.9	1.806	2.600	16.7	21.0
8 19	23 24.83	- 6 54.6	4.144	5.090	4.5	20.4	8 19	23 30.72	+17 27.9	1.718	2.587	14.1	20.7
8 29	23 20.34	- 7 20.6	4.093	5.084	2.5	20.3	8 29	23 24.12	+17 18.9	1.649	2.575	11.2	20.5
9 8	23 15.42	- 7 47.8	4.072	5.078	0.6	20.1	9 8	23 16.16	+16 42.5	1.602	2.562	8.7	20.4
9 18	23 10.41	- 8 13.9	4.081	5.073	2.0	20.2	9 18	23 7.74	+15 40.6	1.581	2.550	7.6	20.3
9 28	23 5.67	- 8 36.9	4.119	5.067	4.1	20.4	9 28	22 59.95	+14 19.1	1.584	2.537	8.9	20.3
10 8	23 1.55	- 8 54.9	4.185	5.061	6.0	20.5	10 8	22 53.77	+12 46.9	1.613	2.525	11.6	20.5
10 18	22 58.33	- 9 6.5	4.277	5.056	7.7	20.6	10 18	22 49.90	+11 13.4	1.664	2.512	14.7	20.6
487826	2015 <i>TL</i> ₆₉		9 10.1 280°84	0.4/ 10.5									

EPHEMERIDES

9 10.1

9 10.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
94568	2001 VM ₃₉		9 10.1 286°24	3°3/ 7.6	18		12608	Aesop		9 10.2 333°36	3°2/12.5	18	
8 9	23 38.10	- 8 53.1	1.273	2.181	15.6	19.6	8 9	23 35.37	+ 3 55.6	1.230	2.112	17.9	18.3
8 19	23 33.20	- 9 56.1	1.209	2.170	11.2	19.3	8 19	23 31.29	+ 3 50.2	1.162	2.103	13.7	18.0
8 29	23 25.68	-11 9.4	1.166	2.160	6.4	19.0	8 29	23 24.65	+ 3 21.8	1.113	2.095	8.8	17.7
9 8	23 16.45	-12 23.6	1.146	2.150	3.3	18.8	9 8	23 16.32	+ 2 33.6	1.086	2.087	4.1	17.5
9 18	23 6.79	-13 28.6	1.152	2.140	6.8	19.0	9 18	23 7.52	+ 1 31.9	1.082	2.080	4.5	17.5
9 28	22 58.17	-14 15.3	1.182	2.129	11.8	19.2	9 28	22 59.70	+ 0 26.3	1.103	2.074	9.4	17.7
10 8	22 51.81	-14 38.5	1.233	2.119	16.4	19.5	10 8	22 54.08	- 0 33.4	1.146	2.068	14.3	18.0
10 18	22 48.46	-14 37.3	1.302	2.109	20.3	19.7	10 18	22 51.43	- 1 19.7	1.208	2.064	18.6	18.2
251964	1999 YL ₆		9 10.1 242°15	2°6/ 7.8	18		358716	2008 BH ₂₃		9 10.2 54°53	1°0/11.0	18	
8 9	23 41.91	-10 21.7	1.987	2.871	11.9	21.6	8 9	23 38.13	- 1 25.8	1.972	2.842	12.6	20.7
8 19	23 35.28	-11 1.1	1.902	2.852	8.6	21.4	8 19	23 32.35	- 1 25.8	1.906	2.845	9.3	20.5
8 29	23 26.62	-11 45.4	1.841	2.832	4.9	21.1	8 29	23 24.84	- 1 35.9	1.863	2.849	5.5	20.3
9 8	23 16.61	-12 28.9	1.808	2.811	2.6	20.9	9 8	23 16.31	- 1 53.1	1.847	2.853	1.6	20.0
9 18	23 6.19	-13 5.7	1.805	2.789	5.1	21.0	9 18	23 7.61	- 2 13.7	1.859	2.857	3.1	20.1
9 28	22 56.41	-13 30.5	1.829	2.767	9.0	21.2	9 28	22 59.66	- 2 33.3	1.899	2.861	7.0	20.4
10 8	22 48.24	-13 40.1	1.878	2.743	12.7	21.4	10 8	22 53.25	- 2 47.8	1.965	2.865	10.5	20.6
10 18	22 42.33	-13 33.7	1.949	2.719	15.8	21.6	10 18	22 48.90	- 2 54.4	2.054	2.869	13.6	20.8
436072	2009 SA ₉₈		9 10.1 28°86	1°5/13.1	17		55433	2001 TU ₆₀		9 10.2 71°13	0°3/ 9.9	18	
8 9	23 27.74	+ 4 35.8	4.376	5.209	7.0	21.2	8 9	23 38.83	- 3 40.6	1.490	2.379	14.9	18.9
8 19	23 24.22	+ 4 20.6	4.295	5.209	5.3	21.1	8 19	23 33.19	- 4 9.1	1.438	2.389	10.7	18.7
8 29	23 20.01	+ 3 58.1	4.241	5.210	3.5	21.0	8 29	23 25.42	- 4 49.4	1.408	2.399	6.0	18.4
9 8	23 15.40	+ 3 29.7	4.214	5.210	1.8	20.8	9 8	23 16.42	- 5 35.4	1.402	2.409	1.0	18.1
9 18	23 10.70	+ 2 57.3	4.217	5.211	1.8	20.8	9 18	23 7.30	- 6 20.7	1.424	2.420	4.1	18.4
9 28	23 6.26	+ 2 23.1	4.249	5.211	3.4	21.0	9 28	22 59.24	- 6 58.5	1.471	2.430	8.8	18.7
10 8	23 2.41	+ 1 49.5	4.311	5.212	5.2	21.1	10 8	22 53.18	- 7 23.8	1.542	2.441	12.9	18.9
10 18	22 59.40	+ 1 18.7	4.398	5.212	6.9	21.2	10 18	22 49.67	- 7 34.2	1.634	2.451	16.4	19.2
41345	2000 AB ₁₈		9 10.1 32°94	3°6/13.7	18		29459	1997 SO ₁₆		9 10.2 46°10	1°9/ 8.9	18	
8 9	23 34.72	+ 6 39.2	1.856	2.704	14.2	17.3	8 9	23 41.00	- 8 12.8	1.329	2.229	15.6	18.4
8 19	23 29.96	+ 6 42.6	1.796	2.715	11.0	17.1	8 19	23 34.89	- 8 30.0	1.283	2.240	11.1	18.2
8 29	23 23.49	+ 6 28.6	1.758	2.726	7.5	16.9	8 29	23 26.41	- 8 54.0	1.258	2.252	6.1	17.9
9 8	23 16.04	+ 5 59.2	1.744	2.738	4.4	16.8	9 8	23 16.59	- 9 18.4	1.258	2.263	1.9	17.7
9 18	23 8.44	+ 5 18.5	1.757	2.750	4.1	16.8	9 18	23 6.72	- 9 37.0	1.283	2.276	5.2	18.0
9 28	23 1.62	+ 4 32.1	1.797	2.763	6.9	17.0	9 28	22 58.14	- 9 44.5	1.333	2.288	9.9	18.3
10 8	22 56.33	+ 3 46.1	1.863	2.776	10.2	17.2	10 8	22 51.84	- 9 38.0	1.406	2.301	14.2	18.6
10 18	22 53.10	+ 3 5.8	1.951	2.789	13.3	17.4	10 18	22 48.37	- 9 16.8	1.499	2.314	17.7	18.8
407102	2009 SO ₂₈₅		9 10.1 243°34	1°3/11.8	18		67536	2000 RX ₁₀₄		9 10.2 143°70	6°4/17.1	18	
8 9	23 32.48	+ 2 30.3	2.500	3.355	10.8	21.8	8 9	23 37.05	+15 52.4	1.982	2.774	15.5	17.8
8 19	23 28.10	+ 1 50.4	2.417	3.347	8.1	21.6	8 19	23 31.68	+15 57.3	1.909	2.781	12.8	17.6
8 29	23 22.38	+ 0 57.9	2.358	3.338	4.9	21.4	8 29	23 24.52	+15 38.4	1.857	2.787	9.9	17.4
9 8	23 15.84	- 0 4.1	2.326	3.330	1.8	21.2	9 8	23 16.27	+14 56.3	1.829	2.794	7.4	17.3
9 18	23 9.09	- 1 11.1	2.323	3.321	2.5	21.2	9 18	23 7.79	+13 53.9	1.826	2.799	6.4	17.2
9 28	23 2.81	- 2 18.0	2.350	3.312	5.8	21.4	9 28	23 0.04	+12 37.2	1.851	2.805	7.7	17.3
10 8	22 57.61	- 3 19.5	2.404	3.303	8.9	21.6	10 8	22 53.84	+11 14.4	1.902	2.810	10.4	17.5
10 18	22 53.98	- 4 11.6	2.482	3.293	11.6	21.8	10 18	22 49.74	+ 9 53.1	1.977	2.815	13.1	17.7
293880	2007 RZ ₂₈₃		9 10.1 47°85	2°6/12.8	16		317539	2002 TG ₃₅₁		9 10.2 48°91	4°7/13.8	17	
8 9	23 33.69	+ 6 54.1	1.401	2.267	17.0	20.7	8 9	23 37.87	+ 7 28.3	1.288	2.150	18.4	20.8
8 19	23 29.45	+ 5 45.0	1.360	2.292	12.8	20.5	8 19	23 32.81	+ 7 33.4	1.234	2.161	14.3	20.5
8 29	23 23.24	+ 4 11.6	1.340	2.319	8.1	20.3	8 29	23 25.33	+ 7 13.6	1.200	2.172	9.8	20.3
9 8	23 15.98	+ 2 21.1	1.344	2.346	3.6	20.1	9 8	23 16.42	+ 6 31.3	1.189	2.183	5.7	20.1
9 18	23 8.73	+ 0 23.9	1.375	2.373	3.7	20.2	9 18	23 7.32	+ 5 32.5	1.201	2.195	5.2	20.1
9 28	23 2.57	- 1 28.8	1.431	2.400	7.9	20.5	9 28	22 59.38	+ 4 26.2	1.238	2.207	8.9	20.4
10 8	22 58.31	- 3 7.4	1.513	2.428	12.0	20.9	10 8	22 53.66	+ 3 22.1	1.299	2.220	13.1	20.7
10 18	22 56.42	- 4 26.1	1.616	2.455	15.5	21.1	10 18	22 50.76	+ 2 27.9	1.380	2.232	16.9	20.9
243327	2008 SQ ₁₉₅		9 10.1 290°33	3°1/ 7.5	18		43045	1999 VV ₄₉		9 10.2 256°03	4°9/ 4.6	18	
8 9	23 38.27	-10 44.4	1.655	2.553	13.1	21.0	8 9	23 37.15	-19 40.7	2.341	3.233	10.0	19.6
8 19	23 32.98	-11 27.4	1.574	2.531	9.5	20.7	8 19	23 31.53	-20 29.7	2.277	3.224	7.5	19.5
8 29	23 25.46	-12 16.3	1.516	2.508	5.5	20.4	8 29	23 24.36	-21 15.6	2.238	3.215	5.4	19.3
9 8	23 16.43	-13 4.4	1.484	2.486	3.1	20.2	9 8	23 16.24	-21 52.7	2.226	3.206	5.1	19.3
9 18	23 6.93	-13 44.4	1.478	2.463	6.0	20.4	9 18	23 7.95	-22 16.2	2.242	3.196	6.8	19.4
9 28	22 58.14	-14 10.1	1.498	2.440	10.2	20.6	9 28	23 0.30	-22 23.0	2.285	3.186	9.3	19.5
10 8	22 51.15	-14 17.6	1.542	2.418	14.3	20.8	10 8	22 54.03	-22 12.1	2.352	3.177	11.9	19.7
10 18	22 46.68	-14 6.0	1.605	2.395	17.8	21.0	10 18	22 49.62	-21 44.3	2.440	3.167	14.1	19.8
132613	2002 KQ ₁₄		9 10.1 68°56	4°5/ 5.3	18		18954	Sarahbunds		9 10.2 86°76	3°9/13.2	18	
8 9	23 34.32	-11 54.3	1.648	2.554	12.7	19.1	8 9	23 40.78	+ 6 12.9	1.355	2.215	17.9	18.1
8 19	23 29.85	-13 44.1	1.602	2.563	9.0	18.9	8 19	23 34.73	+ 6 8.3	1.305	2.232	13.7	17.9
8 29	23 23.50	-15 38.3	1.582	2.572	5.6	18.7	8 29	23 26.33	+ 5 40.8	1.276	2.250	9.0	17.7
9 8	23 16.05	-17 26.6	1.588	2.582	4.6	18.7	9 8	23 16.60	+ 4 53.7	1.269	2.267	4.8	17.5
9 18	23 8.47	-18 59.6	1.621	2.591	7.3	18.8	9 18	23 6.76	+ 3 53.6	1.288	2.284	4.7	17.5
9 28	23 1.79	-20 10.1	1.679	2.601	10.8	19.1	9 28	22 58.15	+ 2 49.0	1.333	2.300	8.6	17.8
10 8	22 56.84	-20 54.8	1.761	2.611	14.1	19.3	10 8	22 51.77	+ 1 48.9	1.402	2.317	12.8	18.1
10 18	22 54.13	-21 14.1	1.861	2.620	16.8	19.5	10 18	22 48.19	+ 0 59.7	1.492	2.333	16.5	18.4
97161	1999 VV ₁₈₂		9 10.1 247°61	0°5/ 9.6	18		511805	2015 FQ ₈₂		9 10.2 52°21	7°5/16.6	18	
8 9	23 34.41	- 4 25.											

EPHEMERIDES

9 10.2

9 10.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
379221	2009 SY ₁₉₂		9 10.2 265°75	2°4/12.3	18		451302	2010 TT ₁₃₈		9 10.2 251°68	1°0/11.2	15	
8 9	23 37.20	+ 3 59.9	1.738	2.597	14.6	21.9	8 9	23 35.12	- 0 2.9	2.281	3.144	11.4	22.1
8 19	23 32.15	+ 3 38.1	1.648	2.577	11.1	21.6	8 19	23 30.11	- 0 21.4	2.201	3.137	8.4	21.9
8 29	23 25.00	+ 2 57.7	1.579	2.557	7.1	21.4	8 29	23 23.60	- 0 50.7	2.146	3.130	5.0	21.7
9 8	23 16.40	+ 2 1.2	1.536	2.537	3.2	21.1	9 8	23 16.15	- 1 27.8	2.117	3.122	1.6	21.4
9 18	23 7.30	+ 0 54.0	1.519	2.516	3.7	21.1	9 18	23 8.46	- 2 8.7	2.118	3.115	2.7	21.5
9 28	22 58.80	- 0 16.5	1.530	2.495	7.9	21.3	9 28	23 1.32	- 2 48.7	2.146	3.107	6.3	21.7
10 8	22 51.93	- 1 22.4	1.566	2.474	12.2	21.5	10 8	22 55.44	- 3 23.5	2.202	3.100	9.6	21.9
10 18	22 47.42	- 2 17.3	1.624	2.452	16.0	21.7	10 18	22 51.30	- 3 49.5	2.280	3.092	12.5	22.1
70455	1999 TM ₂₀		9 10.2 33°72	1°0/ 9.4	18		399154	2014 FB ₆		9 10.2 90°53	1°6/12.0	17	
8 9	23 37.90	- 5 39.4	1.387	2.285	15.2	18.7	8 9	23 33.97	+ 4 18.6	1.941	2.798	13.4	20.6
8 19	23 32.62	- 6 1.6	1.338	2.295	10.9	18.5	8 19	23 29.35	+ 3 17.0	1.881	2.812	9.9	20.5
8 29	23 25.13	- 6 33.5	1.312	2.305	6.0	18.3	8 29	23 23.16	+ 1 58.1	1.846	2.826	6.1	20.3
9 8	23 16.39	- 7 9.2	1.309	2.316	1.2	18.0	9 8	23 16.06	+ 0 27.1	1.836	2.839	2.3	20.0
9 18	23 7.55	- 7 42.1	1.332	2.328	4.5	18.3	9 18	23 8.85	- 1 9.0	1.855	2.853	3.0	20.1
9 28	22 59.85	- 8 6.0	1.381	2.340	9.3	18.6	9 28	23 2.39	- 2 42.3	1.903	2.867	6.7	20.4
10 8	22 54.23	- 8 16.7	1.452	2.353	13.5	18.8	10 8	22 57.38	- 4 5.8	1.977	2.880	10.3	20.6
10 18	22 51.23	- 8 12.6	1.544	2.366	16.9	19.1	10 18	22 54.29	- 5 14.7	2.075	2.893	13.3	20.9
157326	2004 TM ₇		9 10.2 333°70	1°3/ 8.6	18		319639	2006 SU ₃₉₀		9 10.2 47°37	2°8/12.4	17	
8 9	23 30.96	- 3 43.5	1.924	2.813	12.0	19.1	8 9	23 36.72	+ 4 34.8	1.123	2.006	19.1	19.8
8 19	23 27.34	- 5 10.2	1.853	2.807	8.5	18.9	8 19	23 32.04	+ 4 3.8	1.083	2.025	14.3	19.6
8 29	23 22.10	- 6 49.8	1.807	2.800	4.7	18.6	8 29	23 24.89	+ 3 7.5	1.062	2.046	9.0	19.4
9 8	23 15.86	- 8 35.1	1.788	2.794	1.3	18.4	9 8	23 16.37	+ 1 52.6	1.064	2.067	3.9	19.2
9 18	23 9.37	- 10 18.0	1.798	2.789	4.2	18.6	9 18	23 7.84	+ 0 28.6	1.090	2.088	4.3	19.3
9 28	23 3.50	- 11 50.3	1.834	2.783	8.2	18.8	9 28	23 0.67	- 0 53.2	1.139	2.110	9.2	19.6
10 8	22 59.01	- 13 5.8	1.897	2.779	11.7	19.0	10 8	22 55.88	- 2 2.8	1.211	2.132	13.9	20.0
10 18	22 56.42	- 14 1.0	1.981	2.774	14.8	19.2	10 18	22 53.98	- 2 54.5	1.303	2.155	17.8	20.3
510259	2011 HZ ₃₅		9 10.2 124°31	1°6/11.9	18		214027	2004 DF ₄₂		9 10.2 192°73	2°1/ 7.7	18	
8 9	23 35.14	+ 4 4.2	1.819	2.679	14.0	21.5	8 9	23 35.60	- 9 5.7	2.260	3.148	10.6	20.5
8 19	23 30.31	+ 3 4.8	1.755	2.687	10.4	21.3	8 19	23 30.43	- 10 0.4	2.194	3.146	7.5	20.3
8 29	23 23.75	+ 1 46.9	1.715	2.696	6.4	21.1	8 29	23 23.76	- 11 0.2	2.153	3.145	4.2	20.1
9 8	23 16.15	+ 0 15.8	1.700	2.704	2.4	20.9	9 8	23 16.18	- 11 59.8	2.140	3.143	2.1	20.0
9 18	23 8.39	- 1 21.3	1.714	2.712	3.2	21.0	9 18	23 8.43	- 12 53.6	2.156	3.140	4.4	20.1
9 28	23 1.40	- 2 55.7	1.756	2.719	7.2	21.2	9 28	23 1.29	- 13 36.9	2.199	3.138	7.7	20.3
10 8	22 55.99	- 4 19.8	1.823	2.727	11.0	21.5	10 8	22 55.46	- 14 6.3	2.269	3.135	10.7	20.5
10 18	22 52.67	- 5 28.6	1.914	2.733	14.2	21.7	10 18	22 51.42	- 14 20.5	2.360	3.132	13.3	20.7
151707	2003 BQ ₃₄		9 10.2 306°16	0°1/10.2	18		106878	2000 YZ ₃₅		9 10.2 233°05	3°2/ 7.3	18	
8 9	23 37.64	- 3 6.6	1.418	2.309	15.3	20.3	8 9	23 37.68	- 8 46.6	1.520	2.420	14.0	19.5
8 19	23 32.71	- 3 26.5	1.344	2.297	11.2	20.0	8 19	23 32.57	- 10 2.7	1.456	2.414	10.0	19.3
8 29	23 25.39	- 3 59.9	1.293	2.284	6.4	19.7	8 29	23 25.23	- 11 28.2	1.415	2.408	5.7	19.0
9 8	23 16.48	- 4 41.8	1.265	2.272	1.2	19.4	9 8	23 16.48	- 12 54.2	1.400	2.402	3.2	18.8
9 18	23 7.13	- 5 25.6	1.263	2.260	4.2	19.6	9 18	23 7.40	- 14 11.2	1.411	2.395	6.3	19.0
9 28	22 58.65	- 6 3.9	1.286	2.249	9.4	19.8	9 28	22 59.22	- 15 10.9	1.448	2.389	10.6	19.3
10 8	22 52.19	- 6 30.5	1.332	2.237	14.1	20.1	10 8	22 52.98	- 15 48.5	1.507	2.381	14.7	19.5
10 18	22 48.47	- 6 41.7	1.398	2.227	18.1	20.3	10 18	22 49.32	- 16 2.8	1.586	2.374	18.1	19.7
173553	2000 YY ₈₉		9 10.2 207°50	2°1/ 8.2	18		360782	2005 EK ₂₇₁		9 10.2 254°21	1°8/12.2	18	
8 9	23 39.05	- 7 16.6	1.746	2.635	13.1	21.3	8 9	23 34.84	+ 3 57.0	2.042	2.896	12.9	21.1
8 19	23 33.31	- 8 16.9	1.677	2.630	9.3	21.0	8 19	23 30.15	+ 3 17.0	1.953	2.881	9.8	20.9
8 29	23 25.53	- 9 26.2	1.633	2.625	5.2	20.8	8 29	23 23.74	+ 2 20.0	1.887	2.866	6.1	20.6
9 8	23 16.49	- 10 37.6	1.614	2.619	2.1	20.6	9 8	23 16.21	+ 1 9.2	1.848	2.850	2.6	20.4
9 18	23 7.15	- 11 43.4	1.624	2.612	5.0	20.8	9 18	23 8.32	- 0 9.8	1.837	2.834	3.1	20.4
9 28	22 58.61	- 12 36.8	1.661	2.605	9.2	21.0	9 28	23 0.98	- 1 30.1	1.854	2.818	6.9	20.6
10 8	22 51.81	- 13 13.0	1.722	2.597	13.1	21.2	10 8	22 55.00	- 2 44.7	1.898	2.801	10.6	20.8
10 18	22 47.37	- 13 30.3	1.804	2.589	16.3	21.4	10 18	22 50.97	- 3 48.0	1.965	2.784	13.9	21.0
396279	2014 CD ₂₃		9 10.2 183°26	0°6/ 9.6	18		510369	2011 TE ₈		9 10.2 358°74	3°4/12.6	18	
8 9	23 38.40	- 4 54.6	2.291	3.164	11.0	22.2	8 9	23 36.96	+ 3 1.6	1.423	2.297	16.3	20.2
8 19	23 32.39	- 5 23.0	2.220	3.164	7.9	22.0	8 19	23 32.13	+ 3 27.7	1.357	2.294	12.5	19.9
8 29	23 24.83	- 5 58.6	2.175	3.164	4.4	21.8	8 29	23 25.01	+ 3 36.9	1.312	2.292	8.2	19.7
9 8	23 16.35	- 6 37.5	2.157	3.164	0.8	21.5	9 8	23 16.45	+ 3 30.6	1.291	2.291	4.2	19.4
9 18	23 7.68	- 7 15.4	2.169	3.163	3.2	21.7	9 18	23 7.56	+ 3 12.6	1.295	2.291	4.4	19.5
9 28	22 59.66	- 7 47.7	2.209	3.161	6.8	21.9	9 28	22 59.61	+ 2 48.6	1.323	2.292	8.5	19.7
10 8	22 52.98	- 8 11.0	2.277	3.159	10.0	22.1	10 8	22 53.65	+ 2 25.2	1.375	2.293	12.7	19.9
10 18	22 48.14	- 8 23.2	2.367	3.156	12.8	22.3	10 18	22 50.35	+ 2 7.9	1.448	2.296	16.5	20.2
476438	2008 EB ₉		9 10.2 91°21	4°7/10.9	18		392883	2012 UJ ₁₇₄		9 10.2 12°61	21°9/15.8	17	
8 9	0 20.70	- 4 37.8	0.672	1.554	28.3	21.7	8 9	23 39.71	- 45 20.4	0.914	1.799	22.2	19.3
8 19	0 4.63	- 2 3.3	0.641	1.584	21.0	21.5	8 19	23 35.88	- 48 48.3	0.914	1.800	22.0	19.3
8 29	23 43.36	+ 0 20.4	0.628	1.613	12.7	21.2	8 29	23 27.70	- 51 25.7	0.931	1.802	22.8	19.4
9 8	23 19.60	+ 2 25.0	0.638	1.641	5.4	20.9	9 8	23 16.93	- 52 57.4	0.962	1.804	24.2	19.5
9 18	22 56.95	+ 4 3.5	0.673	1.668	7.7	21.2	9 18	23 6.09	- 53 18.6	1.005	1.807	26.0	19.7
9 28	22 38.61	+ 5 16.5	0.733	1.694	14.6	21.7	9 28	22 57.71	- 52 34.2	1.059	1.810	27.7	19.8
10 8	22 26.16	+ 6 11.1	0.812	1.719	20.5	22.1	10 8	22 53.34	- 50 56.0	1.122	1.815	29.2	20.0
10 18	22 19.69	+ 6 56.0	0.907	1.742	25.0	22.5	10 18	22 53.35	- 48 36.6	1.192	1.819	30.5	20.2
209172	2003 UY ₁₁₅		9 10.2 314°30	2°3/12.1	18		439392	2013 AX ₁₂₉		9 10.2 317°99	2°2/ 7.9	18	

EPHEMERIDES

9 10.2

9 10.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
98157	2000 <i>SF</i> ₇₃		9 10.2 310°35	2°8/ 7.9	18		482915	2014 <i>HB</i> ₉₃		9 10.2 3°63	4°6/ 5.8	16	
8 9	23 36.72	- 9 15.0	1.462	2.366	14.2	18.9	8 9	23 36.39	-15 4.7	1.773	2.676	12.2	21.3
8 19	23 32.05	- 9 59.3	1.389	2.349	10.2	18.6	8 19	23 31.32	-16 5.4	1.718	2.675	8.8	21.1
8 29	23 25.03	-10 51.8	1.338	2.332	5.8	18.3	8 29	23 24.39	-17 6.6	1.688	2.676	5.7	20.9
9 8	23 16.47	-11 45.1	1.311	2.315	2.8	18.1	9 8	23 16.35	-18 0.9	1.683	2.676	4.7	20.9
9 18	23 7.47	-12 31.2	1.311	2.299	6.0	18.3	9 18	23 8.14	-18 41.6	1.705	2.676	7.0	21.0
9 28	22 59.30	-13 2.9	1.335	2.283	10.6	18.5	9 28	23 0.79	-19 4.0	1.753	2.677	10.3	21.2
10 8	22 53.09	-13 15.7	1.381	2.268	14.9	18.7	10 8	22 55.14	-19 6.2	1.824	2.678	13.5	21.4
10 18	22 49.56	-13 8.2	1.446	2.253	18.6	18.9	10 18	22 51.72	-18 48.7	1.914	2.679	16.2	21.6
389467	2010 <i>EU</i> ₄₂		9 10.2 233°49	1°9/ 7.9	18		45425	2000 <i>AY</i> ₁₆₆		9 10.2 168°59	1°7/12.6	18	
8 9	23 34.80	- 5 56.5	1.918	2.807	12.1	21.0	8 9	23 32.59	+ 4 34.6	2.774	3.614	10.3	19.5
8 19	23 30.15	- 7 19.7	1.846	2.799	8.6	20.8	8 19	23 28.07	+ 3 57.5	2.697	3.617	7.7	19.3
8 29	23 23.74	- 8 53.7	1.798	2.791	4.7	20.5	8 29	23 22.38	+ 3 8.0	2.645	3.619	4.9	19.1
9 8	23 16.22	-10 31.3	1.778	2.783	1.9	20.3	9 8	23 15.99	+ 2 9.1	2.622	3.622	2.3	18.9
9 18	23 8.41	-12 4.5	1.786	2.774	4.8	20.5	9 18	23 9.46	+ 1 4.6	2.627	3.623	2.4	19.0
9 28	23 1.25	-13 25.5	1.822	2.765	8.7	20.7	9 28	23 3.40	- 0 0.9	2.662	3.625	5.1	19.2
10 8	22 55.56	-14 28.7	1.884	2.756	12.3	20.9	10 8	22 58.33	- 1 2.7	2.726	3.626	7.9	19.3
10 18	22 51.92	-15 11.6	1.966	2.746	15.3	21.1	10 18	22 54.67	- 1 57.0	2.814	3.627	10.3	19.5
385725	2005 <i>UR</i> ₂₉₉		9 10.2 280°36	1°2/11.2	18		224113	2005 <i>PA</i> ₁₃		9 10.2 27°03	1°1/10.7	16	
8 9	23 36.83	+ 0 33.9	1.650	2.524	14.4	21.8	8 9	23 43.63	- 4 3.9	1.118	2.016	18.1	19.8
8 19	23 31.99	+ 0 6.1	1.562	2.504	10.8	21.5	8 19	23 37.17	- 3 26.5	1.072	2.026	13.2	19.6
8 29	23 24.98	- 0 38.5	1.497	2.483	6.5	21.2	8 29	23 27.89	- 3 0.2	1.045	2.036	7.7	19.3
9 8	23 16.48	- 1 35.9	1.456	2.461	2.0	20.9	9 8	23 17.01	- 2 42.2	1.042	2.048	1.9	19.0
9 18	23 7.45	- 2 39.9	1.442	2.440	3.6	21.0	9 18	23 6.04	- 2 28.4	1.063	2.061	4.4	19.2
9 28	22 59.06	- 3 43.0	1.455	2.419	8.4	21.2	9 28	22 56.58	- 2 14.5	1.108	2.075	9.9	19.6
10 8	22 52.38	- 4 37.5	1.492	2.397	12.9	21.4	10 8	22 49.82	- 1 56.1	1.174	2.089	14.8	19.9
10 18	22 48.14	- 5 18.3	1.551	2.375	16.8	21.6	10 18	22 46.34	- 1 30.6	1.261	2.104	18.7	20.2
323567	2004 <i>TO</i> ₉₂		9 10.2 345°92	3°0/ 7.4	18		48559	1993 <i>TJ</i> ₃₉		9 10.2 227°95	3°9/ 6.0	18	
8 9	23 37.49	-12 41.7	1.953	2.848	11.6	20.0	8 9	23 36.54	-13 53.9	1.998	2.895	11.3	19.1
8 19	23 31.97	-13 7.4	1.889	2.844	8.3	19.8	8 19	23 31.32	-14 56.5	1.936	2.891	8.1	18.9
8 29	23 24.70	-13 34.7	1.851	2.841	4.9	19.6	8 29	23 24.37	-16 1.0	1.898	2.887	5.1	18.7
9 8	23 16.39	-13 58.2	1.838	2.839	3.0	19.5	9 8	23 16.37	-17 0.6	1.888	2.882	4.0	18.6
9 18	23 7.91	-14 13.3	1.854	2.836	5.3	19.6	9 18	23 8.16	-17 49.1	1.905	2.877	6.2	18.8
9 28	23 0.20	-14 16.3	1.896	2.834	8.7	19.8	9 28	23 0.68	-18 21.4	1.949	2.873	9.4	19.0
10 8	22 54.07	-14 5.2	1.962	2.832	12.0	20.0	10 8	22 54.70	-18 35.2	2.017	2.868	12.5	19.2
10 18	22 50.03	-13 40.0	2.050	2.831	14.8	20.2	10 18	22 50.78	-18 30.4	2.105	2.863	15.1	19.3
177409	2004 <i>BS</i> ₁₄₉		9 10.2 49°38	1°0/ 9.4	17		255290	2005 <i>VF</i> ₉₉		9 10.2 249°26	6°7/ 1.6	18	
8 9	23 37.23	- 3 39.9	1.210	2.111	16.7	19.3	8 9	23 38.57	-27 25.5	2.561	3.442	9.7	20.7
8 19	23 32.32	- 4 32.5	1.169	2.127	11.9	19.1	8 19	23 32.57	-28 25.7	2.499	3.427	7.9	20.5
8 29	23 25.04	- 5 39.3	1.149	2.143	6.6	18.9	8 29	23 25.00	-29 18.1	2.463	3.412	6.8	20.4
9 8	23 16.45	- 6 51.8	1.153	2.160	1.3	18.6	9 8	23 16.48	-29 56.6	2.454	3.397	7.0	20.4
9 18	23 7.81	- 8 0.3	1.181	2.177	4.9	18.9	9 18	23 7.76	-30 16.9	2.471	3.382	8.4	20.5
9 28	23 0.45	- 8 55.9	1.234	2.194	10.0	19.2	9 28	22 59.68	-30 16.3	2.514	3.366	10.4	20.6
10 8	22 55.38	- 9 33.1	1.309	2.212	14.4	19.5	10 8	22 52.97	-29 54.9	2.580	3.350	12.4	20.7
10 18	22 53.09	- 9 49.7	1.404	2.230	18.1	19.8	10 18	22 48.12	-29 14.8	2.665	3.333	14.2	20.8
223197	2003 <i>BD</i> ₂₀		9 10.2 291°28	5°3/ 5.6	18		476980	2008 <i>YZ</i> ₅₃		9 10.2 287°87	3°1/ 7.3	18	
8 9	23 37.91	-14 49.5	1.488	2.395	13.7	19.9	8 9	23 37.01	-10 30.2	1.747	2.645	12.6	21.8
8 19	23 32.87	-16 0.0	1.423	2.382	10.0	19.7	8 19	23 32.03	-11 23.7	1.666	2.623	9.0	21.5
8 29	23 25.47	-17 13.2	1.380	2.369	6.5	19.5	8 29	23 24.96	-12 23.8	1.609	2.601	5.3	21.2
9 8	23 16.56	-18 19.6	1.363	2.356	5.5	19.4	9 8	23 16.51	-13 23.5	1.577	2.578	3.1	21.1
9 18	23 7.27	-19 10.2	1.371	2.343	8.2	19.5	9 18	23 7.60	-14 15.6	1.572	2.556	5.9	21.2
9 28	22 58.90	-19 38.4	1.403	2.330	12.1	19.7	9 28	22 59.36	-14 53.5	1.594	2.533	9.9	21.4
10 8	22 52.54	-19 41.6	1.457	2.317	15.9	19.9	10 8	22 52.78	-15 12.9	1.639	2.511	13.8	21.6
10 18	22 48.89	-19 20.5	1.530	2.305	19.2	20.1	10 18	22 48.55	-15 12.6	1.704	2.488	17.2	21.7
519250	2010 <i>XW</i> ₉₂		9 10.2 215°45	1°7/ 8.8	17		356859	2011 <i>WF</i> ₅₄		9 10.2 264°64	5°0/ 5.1	18	
8 9	23 39.53	- 6 48.5	1.650	2.540	13.6	22.3	8 9	23 37.72	-17 44.1	2.024	2.921	11.2	20.8
8 19	23 33.75	- 7 29.8	1.583	2.536	9.8	22.1	8 19	23 32.20	-18 39.8	1.960	2.912	8.3	20.6
8 29	23 25.84	- 8 19.9	1.539	2.532	5.4	21.8	8 29	23 24.88	-19 34.0	1.920	2.902	5.7	20.4
9 8	23 16.62	- 9 12.6	1.521	2.527	1.7	21.5	9 8	23 16.48	-20 20.0	1.907	2.892	5.1	20.3
9 18	23 7.10	-10 1.0	1.530	2.522	4.7	21.7	9 18	23 7.84	-20 51.9	1.921	2.882	7.1	20.4
9 28	22 58.46	-10 38.8	1.566	2.517	9.2	22.0	9 28	22 59.93	-21 5.6	1.961	2.872	10.1	20.6
10 8	22 51.65	-11 1.5	1.626	2.511	13.2	22.2	10 8	22 53.58	-20 59.8	2.025	2.862	13.0	20.8
10 18	22 47.32	-11 7.3	1.707	2.505	16.6	22.4	10 18	22 49.33	-20 35.2	2.109	2.852	15.5	20.9
514068	2014 <i>QG</i> ₄₁		9 10.2 110°29	4°7/16.6	18		275381	2011 <i>AE</i> ₆₈		9 10.2 235°92	0°2/10.0	18	
8 9	23 35.48	+14 11.6	2.664	3.450	12.1	21.5	8 9	23 38.11	- 2 33.2	1.709	2.589	13.7	21.9
8 19	23 30.13	+14 14.8	2.598	3.467	9.9	21.4	8 19	23 32.74	- 3 13.8	1.634	2.580	10.0	21.7
8 29	23 23.52	+14 1.2	2.554	3.485	7.5	21.3	8 29	23 25.32	- 4 7.6	1.581	2.571	5.7	21.4
9 8	23 16.17	+13 31.5	2.535	3.502	5.5	21.2	9 8	23 16.57	- 5 9.3	1.554	2.561	1.0	21.1
9 18	23 8.73	+12 48.3	2.545	3.518	4.8	21.2	9 18	23 7.47	- 6 12.3	1.555	2.551	3.8	21.2
9 28	23 1.85	+11 55.6	2.583	3.535	5.9	21.3	9 28	22 59.11	- 7 9.1	1.583	2.541	8.4	21.5
10 8	22 56.12	+10 58.5	2.648	3.550	8.0	21.4	10 8	22 52.46	- 7 53.9	1.636	2.530	12.6	21.7
10 18	22 51.95	+10 2.0	2.739	3.566	10.2	21.6	10 18	22 48.18	- 8 22.9	1.710	2.519	16.1	21.9
504334	2007 <i>TE</i> ₁₄₀		9 10.2 258°32	4°4/ 6.9	18		240668	2005 <i>EB</i> ₇₅					

EPHEMERIDES

9 10.2

9 10.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
217747	2000 <i>DS</i> ₄₁		9 10.2 219°87	1°3/ 8.9	18		416952	2005 <i>SZ</i> ₁₈₇		9 10.2 271°29	0°2/10.6	17	
8 9	23 37.42	- 4 58.7	1.722	2.609	13.3	20.5	8 9	23 31.09	- 1 53.5	3.204	4.068	8.4	22.0
8 19	23 32.20	- 5 57.6	1.652	2.604	9.5	20.3	8 19	23 26.94	- 2 23.2	3.115	4.053	6.1	21.8
8 29	23 24.98	- 7 8.1	1.606	2.598	5.3	20.0	8 29	23 21.75	- 3 0.2	3.051	4.038	3.5	21.6
9 8	23 16.51	- 8 23.4	1.585	2.592	1.4	19.8	9 8	23 15.92	- 3 41.8	3.017	4.023	0.8	21.4
9 18	23 7.73	- 9 35.9	1.593	2.585	4.5	20.0	9 18	23 9.91	- 4 25.1	3.011	4.008	2.1	21.5
9 28	22 59.73	-10 38.1	1.627	2.578	8.9	20.2	9 28	23 4.24	- 5 6.5	3.036	3.993	4.9	21.6
10 8	22 53.42	-11 24.5	1.686	2.571	12.8	20.4	10 8	22 59.39	- 5 42.9	3.088	3.977	7.4	21.8
10 18	22 49.43	-11 52.4	1.766	2.563	16.2	20.7	10 18	22 55.74	- 6 11.7	3.165	3.962	9.7	21.9
4068	Menestheus		9 10.2 219°18	0°6/11.6	18		474446	2003 <i>QH</i> ₉₉		9 10.2 7°88	2°6/12.1	18	
8 9	23 27.16	+ 0 57.9	4.608	5.457	6.3	17.0	8 9	23 32.03	+ 2 1.5	1.078	1.978	18.4	19.8
8 19	23 23.85	+ 0 23.9	4.526	5.454	4.7	16.9	8 19	23 28.96	+ 1 59.9	1.028	1.980	13.8	19.5
8 29	23 19.89	- 0 16.1	4.470	5.451	2.8	16.7	8 29	23 23.37	+ 1 36.3	0.996	1.983	8.6	19.3
9 8	23 15.55	- 1 0.4	4.444	5.448	1.0	16.6	9 8	23 16.24	+ 0 55.1	0.985	1.989	3.6	19.0
9 18	23 11.13	- 1 46.8	4.447	5.445	1.4	16.6	9 18	23 8.86	+ 0 3.7	0.997	1.996	4.3	19.1
9 28	23 6.94	- 2 32.8	4.482	5.441	3.3	16.8	9 28	23 2.65	- 0 48.3	1.031	2.004	9.4	19.4
10 8	23 3.29	- 3 16.0	4.545	5.438	5.2	16.9	10 8	22 58.72	- 1 32.0	1.086	2.015	14.3	19.7
10 18	23 0.43	- 3 54.4	4.634	5.435	6.8	17.0	10 18	22 57.69	- 2 1.2	1.161	2.027	18.5	20.0
290428	2005 <i>TE</i> ₉₆		9 10.2 71°06	1°1/11.4	18		360673	2004 <i>RD</i> ₂₁₂		9 10.2 16°49	5°0/14.9	18	
8 9	23 35.31	+ 0 35.8	2.032	2.899	12.5	21.3	8 9	23 37.02	+ 9 45.9	2.013	2.838	14.2	20.2
8 19	23 30.32	+ 0 13.1	1.970	2.907	9.2	21.1	8 19	23 31.69	+10 13.8	1.940	2.840	11.3	20.0
8 29	23 23.75	- 0 22.0	1.932	2.916	5.5	20.9	8 29	23 24.62	+10 24.2	1.889	2.842	8.3	19.8
9 8	23 16.27	- 1 5.6	1.920	2.925	1.8	20.7	9 8	23 16.47	+10 17.5	1.862	2.844	5.7	19.7
9 18	23 8.65	- 1 53.1	1.936	2.934	2.9	20.8	9 18	23 8.05	+ 9 55.6	1.863	2.846	5.1	19.6
9 28	23 1.74	- 2 39.1	1.980	2.943	6.6	21.0	9 28	23 0.31	+ 9 23.1	1.890	2.849	7.2	19.8
10 8	22 56.25	- 3 18.6	2.050	2.952	10.0	21.3	10 8	22 54.04	+ 8 45.5	1.943	2.852	10.1	20.0
10 18	22 52.66	- 3 48.2	2.143	2.960	13.0	21.5	10 18	22 49.80	+ 8 8.6	2.020	2.855	13.0	20.2
293824	2007 <i>RH</i> ₁₉₄		9 10.2 314°05	1°9/ 8.6	18		67380	2000 <i>OO</i> ₆		9 10.2 349°54	1°5/ 8.9	18	
8 9	23 37.94	- 8 13.1	1.715	2.608	13.0	20.6	8 9	23 30.53	- 3 6.1	0.960	1.881	18.2	17.9
8 19	23 32.53	- 8 43.5	1.649	2.604	9.3	20.4	8 19	23 28.21	- 4 19.1	0.905	1.872	13.1	17.6
8 29	23 25.14	- 9 20.5	1.607	2.599	5.2	20.1	8 29	23 23.12	- 5 54.6	0.869	1.866	7.3	17.3
9 8	23 16.54	- 9 58.3	1.590	2.595	1.9	19.9	9 8	23 16.22	- 7 41.7	0.853	1.860	1.7	16.9
9 18	23 7.68	-10 31.1	1.601	2.592	4.7	20.1	9 18	23 8.91	- 9 26.1	0.860	1.856	6.1	17.2
9 28	22 59.66	-10 53.6	1.638	2.588	8.9	20.3	9 28	23 2.77	-10 53.6	0.888	1.853	12.1	17.5
10 8	22 53.38	-11 2.2	1.699	2.584	12.7	20.6	10 8	22 59.10	-11 54.3	0.936	1.851	17.5	17.8
10 18	22 49.43	-10 55.7	1.781	2.581	15.9	20.8	10 18	22 58.62	-12 24.2	1.000	1.851	21.9	18.1
399699	2004 <i>TH</i> ₁₈₃		9 10.2 30°13	2°7/13.4	18		406251	2007 <i>DY</i> ₃₂		9 10.2 146°56	0°7/ 9.2	18	
8 9	23 33.18	+ 6 15.6	2.130	2.975	12.8	20.8	8 9	23 33.17	- 4 2.6	2.375	3.253	10.5	20.9
8 19	23 28.80	+ 5 52.1	2.058	2.977	9.8	20.6	8 19	23 28.65	- 5 0.3	2.309	3.257	7.5	20.7
8 29	23 22.92	+ 5 12.1	2.008	2.979	6.5	20.4	8 29	23 22.78	- 6 6.7	2.269	3.260	4.1	20.5
9 8	23 16.12	+ 4 18.5	1.985	2.981	3.5	20.2	9 8	23 16.12	- 7 16.8	2.256	3.263	0.9	20.3
9 18	23 9.14	+ 3 15.6	1.989	2.984	3.3	20.2	9 18	23 9.31	- 8 25.2	2.273	3.266	3.2	20.5
9 28	23 2.76	+ 2 9.4	2.021	2.986	6.2	20.4	9 28	23 3.06	- 9 26.7	2.318	3.269	6.6	20.7
10 8	22 57.68	+ 1 6.1	2.079	2.989	9.5	20.6	10 8	22 57.99	-10 17.1	2.390	3.272	9.6	20.9
10 18	22 54.40	+ 0 10.7	2.161	2.991	12.4	20.8	10 18	22 54.54	-10 53.7	2.485	3.274	12.2	21.1
325452	2009 <i>QA</i> ₁₉		9 10.2 299°79	1°8/ 7.7	18		490234	2008 <i>WK</i> ₂₅		9 10.2 350°03	0°7/10.7	18	
8 9	23 31.77	- 5 36.7	2.190	3.078	10.8	20.2	8 9	23 33.31	- 0 44.6	1.296	2.192	16.2	20.6
8 19	23 27.79	- 7 12.3	2.121	3.074	7.6	20.0	8 19	23 29.69	- 1 15.6	1.232	2.186	11.9	20.4
8 29	23 22.36	- 8 57.8	2.078	3.070	4.2	19.8	8 29	23 23.75	- 2 4.6	1.189	2.180	6.9	20.1
9 8	23 16.03	-10 46.4	2.063	3.067	1.8	19.6	9 8	23 16.33	- 3 5.8	1.169	2.175	1.6	19.7
9 18	23 9.48	-12 30.5	2.077	3.064	4.4	19.8	9 18	23 8.57	- 4 11.3	1.173	2.172	4.1	19.9
9 28	23 3.49	-14 2.9	2.120	3.060	7.8	20.0	9 28	23 1.75	- 5 11.7	1.202	2.169	9.3	20.2
10 8	22 58.73	-15 18.3	2.189	3.057	11.0	20.2	10 8	22 56.95	- 5 59.3	1.253	2.167	14.0	20.5
10 18	22 55.69	-16 14.1	2.281	3.053	13.7	20.4	10 18	22 54.85	- 6 29.2	1.323	2.167	18.0	20.7
269457	2009 <i>SQ</i> ₂₈₉		9 10.2 331°92	1°6/ 8.8	18		119833	2002 <i>CT</i> ₂		9 10.2 57°39	0°2/10.1	18	
8 9	23 36.01	- 5 23.7	1.396	2.296	15.0	20.8	8 9	23 38.07	- 4 31.5	2.022	2.900	12.0	19.5
8 19	23 31.50	- 6 18.1	1.333	2.291	10.7	20.5	8 19	23 32.32	- 4 39.8	1.959	2.905	8.7	19.3
8 29	23 24.70	- 7 25.1	1.293	2.287	5.9	20.2	8 29	23 24.90	- 4 55.7	1.920	2.910	4.9	19.1
9 8	23 16.48	- 8 37.2	1.277	2.283	1.7	19.9	9 8	23 16.51	- 5 15.6	1.908	2.915	0.9	18.8
9 18	23 7.94	- 9 45.4	1.287	2.280	5.1	20.2	9 18	23 7.98	- 5 35.5	1.924	2.920	3.2	19.0
9 28	23 0.35	-10 41.3	1.321	2.277	10.0	20.4	9 28	23 0.20	- 5 51.3	1.968	2.925	7.1	19.2
10 8	22 54.76	-11 18.8	1.378	2.274	14.4	20.7	10 8	22 53.92	- 5 59.5	2.038	2.931	10.5	19.4
10 18	22 51.83	-11 35.6	1.455	2.271	18.1	20.9	10 18	22 49.65	- 5 58.3	2.130	2.936	13.5	19.7
77381	2001 <i>FE</i> ₁₄₁		9 10.2 5°33	7°4/16.8	18		180766	2004 <i>PN</i> ₂₂		9 10.2 62°61	0°9/ 9.2	18	
8 9	23 35.89	+14 32.0	1.593	2.410	17.6	18.4	8 9	23 33.62	- 3 47.5	1.953	2.837	12.1	20.0
8 19	23 31.29	+15 3.2	1.522	2.410	14.6	18.2	8 19	23 29.14	- 4 49.9	1.899	2.850	8.6	19.9
8 29	23 24.56	+15 8.7	1.471	2.410	11.3	18.0	8 29	23 23.10	- 6 2.2	1.870	2.862	4.7	19.6
9 8	23 16.45	+14 47.5	1.442	2.411	8.5	17.9	9 8	23 16.18	- 7 18.4	1.868	2.875	1.0	19.4
9 18	23 8.00	+14 2.1	1.437	2.413	7.4	17.8	9 18	23 9.16	- 8 32.0	1.894	2.888	3.7	19.6
9 28	23 0.36	+12 58.8	1.457	2.414	9.0	17.9	9 28	23 2.87	- 9 36.5	1.948	2.900	7.5	19.9
10 8	22 54.54	+11 46.5	1.501	2.417	12.0	18.1	10 8	22 58.02	-10 27.2	2.027	2.913	10.9	20.1
10 18	22 51.20	+10 34.4	1.566	2.419	15.2	18.3	10 18	22 55.06	-11 1.6	2.128	2.926	13.7	20.4
395063	2009 <i>FM</i> ₂₇		9 10.2 303°55	3°7/ 7.1	18		211219	2002 <i>PQ</i> ₇₈		9 10.2 246°72			

EPHEMERIDES

9 10.2

9 10.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
315873	2008 <i>JJ</i> ₁₂		9 10.2 295°10	3°9/ 5.4 18			284768	2008 <i>WM</i> ₁₁₀		9 10.2 186°33	2°9/ 7.5 18		
8 9	23 33.47	-13 34.1	2.092	2.992	10.7	20.6	8 9	23 37.84	-10 35.2	1.858	2.752	12.1	21.0
8 19	23 29.10	-14 54.0	2.030	2.986	7.7	20.4	8 19	23 32.34	-11 25.7	1.797	2.752	8.6	20.8
8 29	23 23.15	-16 16.6	1.992	2.980	4.9	20.2	8 29	23 25.01	-12 20.6	1.760	2.752	5.0	20.5
9 8	23 16.22	-17 35.1	1.982	2.975	4.1	20.1	9 8	23 16.58	-13 13.6	1.750	2.751	2.9	20.4
9 18	23 9.07	-18 42.4	2.000	2.969	6.2	20.2	9 18	23 7.97	-13 58.4	1.767	2.751	5.4	20.6
9 28	23 2.55	-19 33.3	2.044	2.963	9.3	20.4	9 28	23 0.15	-14 29.7	1.811	2.750	9.0	20.8
10 8	22 57.39	-20 4.7	2.112	2.957	12.2	20.6	10 8	22 53.96	-14 44.5	1.880	2.749	12.4	21.0
10 18	22 54.11	-20 16.0	2.200	2.952	14.7	20.8	10 18	22 49.95	-14 42.2	1.969	2.748	15.4	21.2
387291	2012 <i>UT</i> ₁₆₇		9 10.2 35°49	5°3/ 5.2 18			364055	2005 <i>WK</i> ₁₅₂		9 10.2 158°77	5°6/ 18.1 18		
8 9	23 36.53	-15 11.6	1.576	2.483	13.1	20.0	8 9	23 34.93	+17 48.0	2.808	3.567	12.2	21.2
8 19	23 31.63	-16 32.4	1.527	2.486	9.5	19.8	8 19	23 29.83	+17 55.4	2.727	3.573	10.2	21.1
8 29	23 24.67	-17 54.1	1.502	2.489	6.3	19.6	8 29	23 23.45	+17 44.8	2.668	3.578	8.1	21.0
9 8	23 16.50	-19 7.2	1.502	2.493	5.5	19.6	9 8	23 16.30	+17 16.5	2.634	3.582	6.3	20.9
9 18	23 8.17	-20 3.7	1.528	2.496	7.9	19.8	9 18	23 8.96	+16 32.2	2.627	3.587	5.6	20.8
9 28	23 0.80	-20 37.8	1.579	2.500	11.4	20.0	9 28	23 2.11	+15 35.6	2.648	3.591	6.3	20.9
10 8	22 55.32	-20 47.5	1.652	2.504	14.7	20.2	10 8	22 56.32	+14 31.8	2.696	3.594	8.1	21.0
10 18	22 52.28	-20 34.1	1.744	2.508	17.6	20.4	10 18	22 52.06	+13 26.1	2.770	3.597	10.1	21.1
487013	2014 <i>OM</i> ₄		9 10.2 15°19	4°3/ 14.6 18			432282	2009 <i>SZ</i> ₁₇₃		9 10.2 191°97	0°8/ 10.9 16		
8 9	23 35.36	+ 9 6.6	2.105	2.933	13.5	21.0	8 9	23 40.89	- 1 34.6	1.666	2.540	14.4	21.4
8 19	23 30.44	+ 9 18.5	2.030	2.934	10.7	20.9	8 19	23 34.74	- 1 43.3	1.597	2.539	10.5	21.2
8 29	23 23.90	+ 9 13.4	1.979	2.936	7.7	20.7	8 29	23 26.46	- 2 4.1	1.552	2.539	6.2	21.0
9 8	23 16.36	+ 8 52.2	1.952	2.937	5.0	20.5	9 8	23 16.87	- 2 33.4	1.532	2.537	1.6	20.7
9 18	23 8.59	+ 8 17.8	1.952	2.939	4.5	20.5	9 18	23 6.99	- 3 6.1	1.539	2.536	3.5	20.8
9 28	23 1.45	+ 7 34.7	1.980	2.941	6.7	20.6	9 28	22 57.99	- 3 36.3	1.573	2.534	8.1	21.1
10 8	22 55.68	+ 6 48.8	2.033	2.944	9.7	20.8	10 8	22 50.85	- 3 59.0	1.632	2.533	12.2	21.3
10 18	22 51.80	+ 6 5.5	2.110	2.946	12.5	21.0	10 18	22 46.17	- 4 10.8	1.713	2.530	15.7	21.5
312941	1995 <i>BJ</i> ₁₂		9 10.2 96°33	0°4/ 10.5 17			472259	2014 <i>PU</i> ₅		9 10.2 57°46	6°6/ 17.6 18		
8 9	23 41.35	- 1 42.8	1.414	2.296	15.9	21.0	8 9	23 36.16	+16 41.7	2.228	3.007	14.4	20.6
8 19	23 35.11	- 2 10.7	1.365	2.311	11.6	20.8	8 19	23 31.01	+17 11.7	2.152	3.011	12.1	20.5
8 29	23 26.62	- 2 52.8	1.338	2.327	6.6	20.6	8 29	23 24.24	+17 21.2	2.097	3.015	9.6	20.3
9 8	23 16.85	- 3 43.3	1.335	2.342	1.4	20.3	9 8	23 16.45	+17 9.8	2.065	3.019	7.5	20.2
9 18	23 7.01	- 4 34.9	1.359	2.357	3.9	20.5	9 18	23 8.41	+16 38.8	2.060	3.023	6.6	20.2
9 28	22 58.35	- 5 20.4	1.410	2.371	8.8	20.8	9 28	23 0.97	+15 52.3	2.082	3.026	7.6	20.2
10 8	22 51.86	- 5 54.0	1.484	2.385	13.1	21.1	10 8	22 54.88	+14 56.3	2.129	3.030	9.7	20.4
10 18	22 48.07	- 6 12.6	1.578	2.399	16.7	21.4	10 18	22 50.69	+13 57.4	2.200	3.034	12.1	20.6
522731	2016 <i>LG</i> ₆₃		9 10.2 113°61	3°0/ 13.0 17			62302	2000 <i>SJ</i> ₁₁₇		9 10.2 205°55	3°3/ 7.6 18		
8 9	23 37.21	+ 5 52.8	1.614	2.469	15.7	21.9	8 9	23 40.76	-10 20.5	1.507	2.405	14.2	18.6
8 19	23 32.08	+ 5 26.9	1.551	2.477	12.0	21.6	8 19	23 34.82	-11 13.9	1.446	2.403	10.2	18.4
8 29	23 24.92	+ 4 40.2	1.509	2.484	7.8	21.4	8 29	23 26.57	-12 13.3	1.408	2.400	5.9	18.1
9 8	23 16.56	+ 3 36.5	1.492	2.491	3.9	21.2	9 8	23 16.89	-13 10.9	1.395	2.397	3.3	17.9
9 18	23 7.98	+ 2 22.0	1.501	2.497	3.9	21.2	9 18	23 6.94	-13 58.5	1.409	2.394	6.2	18.1
9 28	23 0.28	+ 1 5.1	1.537	2.504	7.7	21.5	9 28	22 57.99	-14 29.7	1.449	2.390	10.5	18.4
10 8	22 54.39	- 0 6.1	1.598	2.510	11.7	21.7	10 8	22 51.10	-14 41.2	1.511	2.387	14.6	18.6
10 18	22 50.88	- 1 5.4	1.682	2.516	15.2	22.0	10 18	22 46.90	-14 32.6	1.593	2.382	18.0	18.8
14168	1998 <i>UR</i> ₁₅		9 10.2 282°14	0°1/ 10.1 18			11086	Nagatayuji		9 10.2 326°22	4°6/ 7.3 18		
8 9	23 34.31	- 3 12.1	2.308	3.183	10.9	18.2	8 9	23 38.33	-12 21.2	1.106	2.024	16.5	16.2
8 19	23 29.62	- 3 41.5	2.224	3.168	7.9	18.0	8 19	23 33.82	-13 3.0	1.043	2.009	12.0	15.9
8 29	23 23.43	- 4 20.0	2.164	3.153	4.5	17.8	8 29	23 26.34	-13 50.0	1.000	1.994	7.2	15.6
9 8	23 16.29	- 5 3.9	2.131	3.138	0.8	17.5	9 8	23 16.89	-14 32.5	0.980	1.981	4.7	15.4
9 18	23 8.87	- 5 48.8	2.127	3.123	3.0	17.6	9 18	23 6.93	-15 0.9	0.982	1.968	8.0	15.6
9 28	23 1.95	- 6 29.9	2.151	3.108	6.6	17.8	9 28	22 58.14	-15 7.6	1.006	1.956	13.1	15.8
10 8	22 56.22	- 7 3.1	2.201	3.092	9.9	18.0	10 8	22 51.91	-14 49.8	1.050	1.945	17.9	16.1
10 18	22 52.22	- 7 25.3	2.275	3.077	12.8	18.2	10 18	22 49.04	-14 8.3	1.111	1.935	22.1	16.3
404366	2013 <i>GA</i> ₂₂		9 10.2 60°84	0°3/ 9.9 18			91994	1999 <i>VF</i> ₁₂₄		9 10.2 221°47	3°3/ 14.5 18		
8 9	23 35.26	- 3 45.0	2.051	2.930	11.8	21.1	8 9	23 33.48	+ 9 8.7	2.496	3.318	11.8	20.4
8 19	23 30.24	- 4 16.9	1.998	2.945	8.4	20.9	8 19	23 28.92	+ 8 49.0	2.411	3.313	9.3	20.2
8 29	23 23.70	- 4 57.5	1.969	2.959	4.7	20.7	8 29	23 23.00	+ 8 13.1	2.349	3.308	6.5	20.0
9 8	23 16.32	- 5 42.2	1.967	2.974	0.8	20.5	9 8	23 16.23	+ 7 23.0	2.314	3.303	4.0	19.9
9 18	23 8.86	- 6 26.1	1.993	2.988	3.2	20.7	9 18	23 9.24	+ 6 22.1	2.307	3.297	3.5	19.8
9 28	23 2.15	- 7 4.3	2.046	3.003	6.9	21.0	9 28	23 2.74	+ 5 15.1	2.328	3.291	5.7	20.0
10 8	22 56.85	- 7 32.8	2.126	3.018	10.2	21.2	10 8	22 57.35	+ 4 7.9	2.377	3.285	8.6	20.2
10 18	22 53.42	- 7 49.4	2.228	3.032	13.0	21.4	10 18	22 53.55	+ 3 5.5	2.451	3.279	11.2	20.3
388220	2006 <i>HX</i> ₉₂		9 10.2 228°06	3°7/ 6.6 18			12122	1999 <i>NV</i> ₅₅		9 10.2 160°36	5°1/ 16.3 18		
8 9	23 37.02	-12 20.6	1.779	2.678	12.3	21.2	8 9	23 34.41	+13 36.2	2.259	3.060	13.6	17.6
8 19	23 31.83	-13 22.9	1.720	2.677	8.8	21.0	8 19	23 29.70	+13 35.3	2.180	3.061	11.1	17.4
8 29	23 24.75	-14 28.5	1.685	2.676	5.3	20.8	8 29	23 23.48	+13 14.8	2.123	3.062	8.4	17.2
9 8	23 16.54	-15 30.3	1.677	2.675	3.8	20.7	9 8	23 16.32	+12 35.4	2.090	3.063	6.0	17.1
9 18	23 8.12	-16 21.0	1.696	2.673	6.2	20.9	9 18	23 8.94	+11 40.0	2.085	3.063	5.2	17.1
9 28	23 0.52	-16 55.3	1.740	2.672	9.8	21.1	9 28	23 2.12	+10 33.7	2.107	3.064	6.7	17.2
10 8	22 54.61	-17 10.4	1.809	2.671	13.2	21.3	10 8	22 56.58	+ 9 22.9	2.155	3.065	9.2	17.3
10 18	22 50.94	-17 5.9	1.897	2.669	16.1	21.5	10 18	22 52.83	+ 8 13.9	2.228	3.065	11.9	17.5
52798	1998 <i>QO</i> ₅₅		9 10.2 47°31	0°8/ 10.9 18			395465	2011 <i>TQ</i> ₁₃					

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9 10.2

9 10.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
169723	2002 NG ₁₅		9 10.2 56°21	2.4/12.1	17		185640	Sunyisui		9 10.2 238°68	1.8/13.2	17	
8 9	23 40.53	+ 1 49.9	1.547	2.415	15.6	19.7	8 9	23 30.59	+ 5 15.6	3.655	4.485	8.2	21.1
8 19	23 34.34	+ 1 58.5	1.501	2.436	11.6	19.5	8 19	23 26.51	+ 4 55.2	3.562	4.474	6.3	21.0
8 29	23 26.13	+ 1 51.6	1.476	2.457	7.2	19.3	8 29	23 21.53	+ 4 25.5	3.495	4.463	4.2	20.8
9 8	23 16.80	+ 1 32.3	1.476	2.478	3.1	19.1	9 8	23 15.99	+ 3 48.0	3.455	4.452	2.2	20.7
9 18	23 7.44	+ 1 5.4	1.502	2.499	3.7	19.2	9 18	23 10.30	+ 3 5.1	3.446	4.440	2.1	20.7
9 28	22 59.19	+ 0 36.6	1.556	2.521	7.8	19.5	9 28	23 4.91	+ 2 19.7	3.466	4.428	4.1	20.8
10 8	22 52.92	+ 0 11.6	1.633	2.543	11.7	19.8	10 8	23 0.23	+ 1 35.1	3.515	4.416	6.3	20.9
10 18	22 49.13	- 0 5.4	1.733	2.564	15.0	20.1	10 18	22 56.60	+ 0 54.1	3.590	4.404	8.3	21.1
293383	Maigret		9 10.2 162°20	0.4/10.7	18		223376	2003 SL ₅₅		9 10.2 26°23	0.7/10.8	18	
8 9	23 33.40	- 0 36.6	2.441	3.306	10.7	21.1	8 9	23 40.23	- 3 25.9	1.868	2.743	13.0	18.9
8 19	23 28.82	- 1 21.0	2.370	3.309	7.8	20.9	8 19	23 33.98	- 3 6.5	1.808	2.750	9.5	18.7
8 29	23 22.91	- 2 15.9	2.324	3.311	4.5	20.7	8 29	23 25.92	- 2 55.2	1.771	2.758	5.5	18.5
9 8	23 16.22	- 3 17.4	2.306	3.313	1.0	20.5	9 8	23 16.81	- 2 49.3	1.761	2.767	1.4	18.2
9 18	23 9.36	- 4 20.7	2.318	3.315	2.6	20.6	9 18	23 7.57	- 2 45.9	1.779	2.776	3.2	18.4
9 28	23 3.05	- 5 20.6	2.358	3.316	6.0	20.8	9 28	22 59.19	- 2 41.7	1.824	2.786	7.2	18.7
10 8	22 57.87	- 6 12.7	2.425	3.318	9.1	21.0	10 8	22 52.49	- 2 33.4	1.896	2.796	10.8	18.9
10 18	22 54.28	- 6 53.8	2.516	3.319	11.7	21.2	10 18	22 47.99	- 2 19.0	1.990	2.806	13.9	19.1
403396	2009 QW ₆₁		9 10.2 28°82	0.1/10.3	18		432819	2011 GW ₈₂		9 10.2 42°39	4.0/7.1	16	
8 9	23 35.37	- 3 2.6	1.810	2.693	13.0	20.5	8 9	23 37.47	- 10 51.4	1.245	2.157	15.5	20.3
8 19	23 30.53	- 3 22.3	1.753	2.701	9.4	20.3	8 19	23 32.43	- 11 58.9	1.215	2.178	10.9	20.1
8 29	23 23.97	- 3 52.2	1.720	2.710	5.3	20.1	8 29	23 25.13	- 13 10.4	1.207	2.201	6.3	19.9
9 8	23 16.42	- 4 27.8	1.713	2.720	1.0	19.8	9 8	23 16.65	- 14 16.0	1.223	2.224	4.0	19.8
9 18	23 8.75	- 5 4.2	1.733	2.730	3.3	20.0	9 18	23 8.24	- 15 7.1	1.263	2.247	7.0	20.1
9 28	23 1.89	- 5 35.9	1.780	2.741	7.4	20.3	9 28	23 1.18	- 15 37.5	1.328	2.271	11.2	20.4
10 8	22 56.60	- 5 58.7	1.852	2.752	11.0	20.5	10 8	22 56.35	- 15 45.3	1.414	2.296	15.0	20.7
10 18	22 53.39	- 6 10.0	1.945	2.763	14.1	20.8	10 18	22 54.20	- 15 31.5	1.519	2.320	18.1	21.0
282671	2005 VC ₉₅		9 10.2 309°28	3°8/14.5	18		76349	2000 EQ ₁₆₁		9 10.2 344°50	0°5/9.8	18	
8 9	23 33.27	+ 9 11.1	2.078	2.910	13.5	20.3	8 9	23 36.73	- 4 32.8	1.635	2.524	13.8	19.4
8 19	23 29.03	+ 8 56.1	1.996	2.903	10.7	20.1	8 19	23 31.79	- 4 55.7	1.569	2.521	9.9	19.1
8 29	23 23.17	+ 8 22.3	1.936	2.897	7.5	19.9	8 29	23 24.84	- 5 28.9	1.525	2.517	5.6	18.9
9 8	23 16.30	+ 7 31.3	1.901	2.891	4.6	19.7	9 8	23 16.63	- 6 7.3	1.507	2.514	1.0	18.5
9 18	23 9.16	+ 6 27.2	1.893	2.884	4.1	19.7	9 18	23 8.17	- 6 45.1	1.515	2.511	3.9	18.8
9 28	23 2.58	+ 5 15.9	1.913	2.878	6.6	19.8	9 28	23 0.53	- 7 16.3	1.550	2.509	8.4	19.0
10 8	22 57.33	+ 4 4.3	1.959	2.872	9.8	20.0	10 8	22 54.65	- 7 36.3	1.609	2.507	12.5	19.3
10 18	22 53.95	+ 2 58.6	2.029	2.867	12.8	20.2	10 18	22 51.13	- 7 42.3	1.688	2.506	15.9	19.5
165048	2000 EE ₃₅		9 10.2 237°46	2°6/13.1	18		294381	2007 VS ₁₄₃		9 10.2 17°19	2°2/12.4	18	
8 9	23 35.52	+ 5 45.7	2.155	2.998	12.7	20.5	8 9	23 34.80	+ 3 54.0	1.803	2.664	14.0	20.5
8 19	23 30.61	+ 5 21.9	2.069	2.987	9.8	20.3	8 19	23 30.25	+ 3 26.4	1.734	2.665	10.6	20.3
8 29	23 24.07	+ 4 41.8	2.005	2.977	6.5	20.1	8 29	23 23.90	+ 2 41.5	1.687	2.666	6.7	20.1
9 8	23 16.47	+ 3 47.6	1.968	2.966	3.3	19.9	9 8	23 16.46	+ 1 43.0	1.665	2.667	2.9	19.8
9 18	23 8.57	+ 2 43.8	1.959	2.955	3.3	19.8	9 18	23 8.78	+ 0 36.4	1.671	2.668	3.3	19.9
9 28	23 1.20	+ 1 36.3	1.979	2.943	6.5	20.0	9 28	23 1.82	- 0 31.2	1.703	2.669	7.1	20.1
10 8	22 55.15	+ 0 31.3	2.025	2.931	9.9	20.2	10 8	22 56.42	- 1 32.8	1.761	2.671	10.9	20.3
10 18	22 50.96	- 0 25.7	2.095	2.919	13.0	20.4	10 18	22 53.12	- 2 23.3	1.842	2.672	14.2	20.6
342550	2008 UO ₂₃₆		9 10.2 209°83	3°7/6.8	18		189210	2003 SM ₂₆₂		9 10.2 23°10	5°0/5.6	18	
8 9	23 40.96	- 14 25.2	2.028	2.918	11.5	20.8	8 9	23 39.59	- 19 37.6	2.111	3.003	11.0	19.3
8 19	23 34.51	- 15 2.9	1.963	2.914	8.3	20.6	8 19	23 33.39	- 20 7.9	2.057	3.005	8.2	19.1
8 29	23 26.24	- 15 41.0	1.922	2.909	5.2	20.4	8 29	23 25.53	- 20 33.8	2.029	3.008	5.7	19.0
9 8	23 16.86	- 16 13.7	1.908	2.904	3.7	20.3	9 8	23 16.74	- 20 49.9	2.028	3.011	5.1	19.0
9 18	23 7.29	- 16 35.8	1.922	2.898	5.8	20.4	9 18	23 7.88	- 20 51.9	2.053	3.014	6.8	19.1
9 28	22 58.49	- 16 43.5	1.964	2.892	9.1	20.6	9 28	22 59.86	- 20 37.5	2.106	3.017	9.5	19.2
10 8	22 51.31	- 16 35.1	2.031	2.886	12.3	20.8	10 8	22 53.42	- 20 6.6	2.183	3.021	12.2	19.4
10 18	22 46.29	- 16 11.0	2.119	2.879	15.0	21.0	10 18	22 49.04	- 19 20.7	2.281	3.025	14.5	19.6
235131	2003 QL ₅₇		9 10.2 20°39	2°9/8.1	18		394661	2008 CG ₁₁		9 10.2 64°48	3°3/6.7	18	
8 9	23 34.71	- 8 23.6	1.163	2.079	16.1	19.1	8 9	23 35.55	- 11 15.3	1.887	2.784	11.8	20.7
8 19	23 30.70	- 9 13.8	1.123	2.088	11.4	18.9	8 19	23 30.54	- 12 27.9	1.849	2.806	8.3	20.6
8 29	23 24.29	- 10 12.5	1.103	2.098	6.3	18.6	8 29	23 23.92	- 13 43.3	1.836	2.827	4.9	20.4
9 8	23 16.50	- 11 10.7	1.105	2.110	2.9	18.4	9 8	23 16.44	- 14 54.2	1.850	2.849	3.3	20.3
9 18	23 8.62	- 11 59.2	1.132	2.123	6.2	18.7	9 18	23 8.95	- 15 54.2	1.892	2.870	5.6	20.5
9 28	23 2.00	- 12 30.7	1.182	2.137	11.0	19.0	9 28	23 2.32	- 16 38.2	1.960	2.891	8.9	20.8
10 8	22 57.62	- 12 41.4	1.253	2.152	15.3	19.3	10 8	22 57.26	- 17 3.8	2.052	2.913	11.9	21.0
10 18	22 56.02	- 12 31.0	1.342	2.168	18.8	19.6	10 18	22 54.18	- 17 10.9	2.165	2.934	14.4	21.2
55856	1996 VQ ₁₅		9 10.2 0°64	1°7/8.7	18		6795	Örnköldsvik		9 10.2 15°02	2°1/8.4	18	
8 9	23 35.57	- 7 11.4	1.730	2.625	12.9	18.9	8 9	23 34.34	- 6 20.3	1.412	2.316	14.6	17.1
8 19	23 30.83	- 7 49.3	1.668	2.624	9.2	18.7	8 19	23 30.24	- 7 21.8	1.358	2.318	10.4	16.9
8 29	23 24.22	- 8 34.8	1.630	2.623	5.1	18.5	8 29	23 24.00	- 8 34.3	1.327	2.322	5.7	16.6
9 8	23 16.50	- 9 22.3	1.618	2.623	1.7	18.3	9 8	23 16.49	- 9 49.5	1.320	2.326	2.1	16.4
9 18	23 8.57	- 10 5.4	1.632	2.623	4.5	18.5	9 18	23 8.78	- 10 58.6	1.339	2.330	5.3	16.6
9 28	23 1.45	- 10 38.5	1.672	2.624	8.6	18.7	9 28	23 2.05	- 11 53.5	1.383	2.336	9.9	16.9
10 8	22 55.97	- 10 57.6	1.737	2.625	12.3	18.9	10 8	22 57.23	- 12 29.0	1.449	2.342	14.0	17.2
10 18	22 52.70	- 11 1.0	1.823	2.627	15.4	19.1	10 18	22 54.91	- 12 43.4	1.535	2.348	17.4	17.4
141868	2002 PN ₃₁		9 10.2 314°83	0°2/10.4	17		111264	2001 XM ₂₆		9 10.2 171°77	2°8/7.5	18	
8 9	23 3												

EPHEMERIDES

9 10.2

9 10.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
93377	2000 <i>SO</i> ₂₇₁		9 10.2 140°63	2°3/12.9	18		142375	2002 <i>RL</i> ₂₄₇		9 10.2 292°58	5°1/6.0	18	
8 9	23 35.45	+ 6 8.5	1.931	2.778	13.8	19.5	8 9	23 37.95	-13 18.8	1.400	2.309	14.3	20.0
8 19	23 30.59	+ 5 16.7	1.862	2.785	10.5	19.3	8 19	23 33.16	-14 31.9	1.331	2.292	10.4	19.7
8 29	23 24.05	+ 4 5.7	1.817	2.792	6.7	19.1	8 29	23 25.86	-15 50.4	1.284	2.275	6.6	19.4
9 8	23 16.50	+ 2 39.9	1.798	2.798	3.1	18.9	9 8	23 16.90	-17 4.4	1.261	2.257	5.2	19.3
9 18	23 8.78	+ 1 5.7	1.808	2.805	3.2	18.9	9 18	23 7.45	-18 4.0	1.264	2.240	8.1	19.4
9 28	23 1.77	- 0 28.8	1.845	2.810	6.8	19.2	9 28	22 58.89	-18 41.1	1.290	2.223	12.4	19.6
10 8	22 56.24	- 1 56.0	1.910	2.816	10.4	19.4	10 8	22 52.42	-18 52.1	1.338	2.206	16.6	19.8
10 18	22 52.72	- 3 10.3	1.998	2.821	13.6	19.6	10 18	22 48.80	-18 37.2	1.404	2.190	20.1	20.0
241093	2006 <i>VV</i> ₅₇		9 10.2 104°31	0°9/8.8	18		298137	2002 <i>RZ</i> ₂₇₇		9 10.2 1°89	5°0/14.5	16	
8 9	23 31.53	- 6 54.8	3.259	4.136	7.9	20.8	8 9	23 29.94	+ 8 11.2	1.179	2.055	18.9	20.2
8 19	23 27.19	- 7 32.2	3.199	4.147	5.6	20.7	8 19	23 27.45	+ 8 10.4	1.119	2.052	14.9	19.9
8 29	23 21.91	- 8 13.6	3.166	4.157	3.1	20.5	8 29	23 22.61	+ 7 41.2	1.078	2.051	10.4	19.7
9 8	23 16.09	- 8 55.9	3.162	4.168	1.0	20.3	9 8	23 16.28	+ 6 46.2	1.057	2.052	6.2	19.5
9 18	23 10.20	- 9 35.8	3.188	4.178	2.7	20.5	9 18	23 9.62	+ 5 31.9	1.059	2.054	5.4	19.4
9 28	23 4.73	-10 10.4	3.243	4.189	5.1	20.7	9 28	23 3.95	+ 4 8.6	1.084	2.058	9.0	19.6
10 8	23 0.12	-10 37.1	3.325	4.199	7.4	20.9	10 8	23 0.35	+ 2 48.0	1.131	2.064	13.4	19.9
10 18	22 56.69	-10 54.6	3.432	4.209	9.4	21.0	10 18	22 59.47	+ 1 39.5	1.198	2.072	17.5	20.2
350950	2002 <i>VF</i> ₁₄₃		9 10.2 356°48	2°7/7.6	18		506529	2004 <i>TG</i> ₁₄₇		9 10.2 3°70	1°5/11.2	17	
8 9	23 34.90	- 8 58.7	1.658	2.559	13.0	20.0	8 9	23 37.22	- 0 38.9	1.000	1.904	19.1	21.2
8 19	23 30.44	- 9 58.4	1.599	2.557	9.2	19.8	8 19	23 33.02	- 0 40.6	0.946	1.903	14.2	20.9
8 29	23 24.06	-11 5.2	1.563	2.556	5.2	19.5	8 29	23 25.89	- 1 1.9	0.911	1.902	8.5	20.6
9 8	23 16.52	-12 11.8	1.552	2.555	2.7	19.4	9 8	23 16.90	- 1 37.9	0.897	1.903	2.5	20.2
9 18	23 8.75	-13 10.6	1.569	2.555	5.5	19.6	9 18	23 7.55	- 2 20.8	0.906	1.905	4.6	20.4
9 28	23 1.81	-13 55.2	1.611	2.555	9.5	19.8	9 28	22 59.53	- 3 1.0	0.936	1.908	10.5	20.7
10 8	22 56.57	-14 21.6	1.676	2.555	13.2	20.0	10 8	22 54.14	- 3 30.1	0.987	1.912	15.9	21.0
10 18	22 53.59	-14 28.5	1.762	2.556	16.3	20.2	10 18	22 52.10	- 3 43.3	1.056	1.916	20.3	21.3
188431	2004 <i>FF</i> ₉₁		9 10.2 71°85	2°9/7.7	17		135581	2002 <i>GF</i> ₈₀		9 10.2 9°63	7°0/6.1	18	
8 9	23 37.18	- 7 50.8	1.426	2.328	14.6	19.9	8 9	23 33.44	-15 22.6	0.809	1.749	18.4	17.5
8 19	23 32.18	- 9 8.7	1.381	2.340	10.3	19.7	8 19	23 30.54	-16 19.2	0.776	1.751	13.4	17.2
8 29	23 25.04	-10 35.3	1.359	2.353	5.7	19.5	8 29	23 24.49	-17 15.2	0.760	1.755	8.7	17.0
9 8	23 16.69	-12 1.2	1.362	2.366	2.9	19.3	9 8	23 16.62	-17 57.3	0.764	1.761	7.1	17.0
9 18	23 8.23	-13 16.9	1.392	2.379	6.0	19.6	9 18	23 8.64	-18 15.1	0.788	1.770	10.3	17.2
9 28	23 0.86	-14 14.8	1.446	2.391	10.3	19.9	9 28	23 2.33	-18 2.8	0.831	1.781	15.0	17.5
10 8	22 55.50	-14 50.7	1.524	2.404	14.2	20.1	10 8	22 58.92	-17 21.2	0.891	1.793	19.5	17.8
10 18	22 52.68	-15 4.0	1.620	2.417	17.4	20.4	10 18	22 58.90	-16 14.3	0.966	1.808	23.3	18.1
439728	2015 <i>DM</i> ₂₁₃		9 10.2 80°08	1°7/8.5	16		221833	2008 <i>ER</i> ₁₅₁		9 10.2 15°17	0°8/9.8	15	
8 9	23 35.94	- 5 7.6	1.630	2.522	13.6	21.1	8 9	23 35.70	- 4 38.9	1.014	1.928	18.0	19.7
8 19	23 31.09	- 6 24.8	1.581	2.536	9.6	20.8	8 19	23 31.74	- 4 59.8	0.969	1.933	13.0	19.4
8 29	23 24.35	- 7 52.6	1.557	2.550	5.3	20.6	8 29	23 25.05	- 5 35.1	0.944	1.939	7.3	19.1
9 8	23 16.56	- 9 22.9	1.558	2.564	1.7	20.4	9 8	23 16.73	- 6 17.2	0.940	1.947	1.3	18.8
9 18	23 8.66	-10 47.1	1.587	2.578	4.7	20.7	9 18	23 8.23	- 6 57.3	0.959	1.956	5.1	19.1
9 28	23 1.69	-11 57.5	1.642	2.592	8.9	20.9	9 28	23 1.11	- 7 27.0	1.000	1.967	10.8	19.4
10 8	22 56.47	-12 49.2	1.722	2.605	12.7	21.2	10 8	22 56.51	- 7 40.5	1.061	1.978	15.7	19.8
10 18	22 53.50	-13 20.3	1.822	2.619	15.7	21.5	10 18	22 55.03	- 7 35.6	1.141	1.991	19.8	20.1
442350	2011 <i>SJ</i> ₂₂₄		9 10.2 200°70	3°4/6.8	18		454989	2015 <i>TV</i> ₂₃₁		9 10.3 316°85	5°8/3.3	17	
8 9	23 39.47	-14 32.0	2.237	3.126	10.6	21.2	8 9	23 32.33	-16 42.4	1.819	2.728	11.6	20.3
8 19	23 33.30	-15 5.6	2.173	3.123	7.6	21.0	8 19	23 28.69	-18 26.5	1.746	2.704	8.6	20.1
8 29	23 25.51	-15 39.3	2.134	3.121	4.7	20.8	8 29	23 23.17	-20 13.5	1.698	2.681	6.2	19.9
9 8	23 16.78	-16 7.9	2.123	3.118	3.4	20.7	9 8	23 16.39	-21 54.0	1.677	2.659	6.1	19.8
9 18	23 7.89	-16 27.0	2.140	3.115	5.4	20.9	9 18	23 9.21	-23 18.8	1.682	2.636	8.5	19.9
9 28	22 59.70	-16 33.2	2.185	3.112	8.4	21.0	9 28	23 2.65	-24 20.7	1.711	2.615	11.8	20.1
10 8	22 52.96	-16 25.0	2.255	3.108	11.3	21.2	10 8	22 57.60	-24 56.1	1.763	2.593	14.9	20.2
10 18	22 48.15	-16 2.6	2.348	3.105	13.8	21.4	10 18	22 54.72	-25 4.8	1.833	2.572	17.7	20.4
382021	2011 <i>BN</i> ₇₀		9 10.2 199°10	0°9/9.4	18		435559	2008 <i>RW</i> ₃		9 10.3 348°81	0°9/10.9	18	
8 9	23 37.07	- 3 44.9	1.658	2.544	13.8	21.2	8 9	23 36.35	- 0 25.1	1.481	2.365	15.3	21.2
8 19	23 32.03	- 4 42.8	1.592	2.543	9.9	21.0	8 19	23 31.71	- 0 50.1	1.415	2.362	11.2	20.9
8 29	23 24.98	- 5 53.5	1.549	2.541	5.5	20.7	8 29	23 24.89	- 1 30.9	1.371	2.360	6.6	20.7
9 8	23 16.70	- 7 10.3	1.533	2.540	1.1	20.4	9 8	23 16.71	- 2 22.8	1.352	2.358	1.8	20.3
9 18	23 8.15	- 8 25.3	1.544	2.538	4.2	20.6	9 18	23 8.23	- 3 19.0	1.358	2.356	3.7	20.5
9 28	23 0.42	- 9 30.7	1.581	2.536	8.7	20.9	9 28	23 0.64	- 4 11.8	1.390	2.355	8.5	20.8
10 8	22 54.43	-10 20.6	1.643	2.533	12.8	21.1	10 8	22 54.94	- 4 54.4	1.446	2.354	12.9	21.0
10 18	22 50.78	-10 52.1	1.726	2.531	16.2	21.4	10 18	22 51.76	- 5 22.5	1.522	2.354	16.6	21.3
445854	2012 <i>HT</i> ₂₀		9 10.2 291°70	11°3/22.1	17		416725	2005 <i>CQ</i> ₇₈		9 10.3 218°10	2°1/8.3	17	
8 9	23 32.42	+27 15.9	1.045	1.832	26.7	20.6	8 9	23 38.90	- 6 37.2	1.669	2.559	13.5	21.7
8 19	23 29.81	+26 28.6	0.970	1.827	23.4	20.3	8 19	23 33.42	- 7 43.6	1.599	2.552	9.7	21.5
8 29	23 24.22	+24 39.3	0.907	1.821	19.2	20.1	8 29	23 25.83	- 9 0.6	1.552	2.545	5.4	21.2
9 8	23 16.61	+21 42.8	0.862	1.816	14.9	19.8	9 8	23 16.89	-10 20.8	1.532	2.537	2.1	21.0
9 18	23 8.41	+17 44.4	0.837	1.811	11.7	19.6	9 18	23 7.61	-11 35.9	1.539	2.528	5.1	21.2
9 28	23 1.39	+13 4.6	0.837	1.805	12.0	19.6	9 28	22 59.12	-12 38.0	1.573	2.519	9.5	21.4
10 8	22 57.00	+ 8 15.0	0.862	1.801	15.8	19.8	10 8	22 52.42	-13 21.9	1.631	2.510	13.5	21.6
10 18	22 56.05	+ 3 45.9	0.909	1.796	20.5	20.1	10 18	22 48.15	-13 45.3	1.710	2.500	16.9	21.9
154954	2004 <i>TN</i> ₁₁₈		9 10.2 214°10	1°4/8.9	18		374018	2004 <i>DG</i> <					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
41232	1999 <i>XK</i> ₂₁		9 10.3 22°87'	4.8/15.1	18		325978	2010 <i>VR</i> ₁₆₂		9 10.3 127°98'	2.6/12.7	17	
8 9	23 31.92	+10 58.4	1.388	2.239	18.0	18.3	8 9	23 40.37	+ 4 34.2	1.733	2.584	14.9	21.3
8 19	23 28.56	+10 23.2	1.328	2.246	14.2	18.1	8 19	23 34.24	+ 4 15.7	1.673	2.598	11.3	21.1
8 29	23 23.10	+ 9 18.5	1.288	2.254	10.0	17.9	8 29	23 26.17	+ 3 39.4	1.635	2.611	7.2	20.9
9 8	23 16.38	+ 7 48.1	1.271	2.262	6.1	17.7	9 8	23 16.97	+ 2 48.9	1.623	2.623	3.4	20.7
9 18	23 9.43	+ 5 59.7	1.278	2.271	5.0	17.6	9 18	23 7.62	+ 1 49.7	1.639	2.635	3.6	20.7
9 28	23 3.43	+ 4 4.8	1.310	2.282	8.2	17.8	9 28	22 59.18	+ 0 48.7	1.682	2.646	7.4	21.0
10 8	22 59.30	+ 2 15.2	1.367	2.292	12.2	18.1	10 8	22 52.53	- 0 7.1	1.751	2.657	11.2	21.2
10 18	22 57.62	+ 0 40.2	1.445	2.304	15.9	18.4	10 18	22 48.22	- 0 52.8	1.843	2.667	14.5	21.5
223984	2005 <i>AE</i> ₁₇		9 10.3 340°55'	7.2/1.9	18		378231	2007 <i>BF</i> ₇₄		9 10.3 307°75'	3.6/12.9	18	
8 9	23 30.58	-19 13.7	1.604	2.521	12.4	18.5	8 9	23 38.41	+ 4 25.7	1.430	2.297	16.7	20.9
8 19	23 27.57	-21 8.6	1.547	2.506	9.4	18.3	8 19	23 33.41	+ 4 35.9	1.355	2.287	12.9	20.6
8 29	23 22.57	-23 2.9	1.513	2.491	7.4	18.1	8 29	23 26.00	+ 4 26.4	1.301	2.278	8.5	20.3
9 8	23 16.29	-24 45.7	1.504	2.477	7.7	18.1	9 8	23 16.98	+ 3 59.2	1.270	2.269	4.4	20.1
9 18	23 9.68	-26 7.1	1.519	2.465	10.1	18.2	9 18	23 7.48	+ 3 18.6	1.264	2.260	4.5	20.1
9 28	23 3.83	-27 0.2	1.558	2.453	13.3	18.4	9 28	22 58.84	+ 2 31.7	1.284	2.252	8.7	20.3
10 8	22 59.68	-27 22.5	1.618	2.443	16.3	18.6	10 8	22 52.19	+ 1 46.4	1.327	2.244	13.2	20.5
10 18	22 57.85	-27 15.4	1.694	2.433	18.9	18.7	10 18	22 48.30	+ 1 9.6	1.390	2.236	17.2	20.8
453123	2007 <i>YQ</i> ₅₇		9 10.3 326°63'	20.6/22.3	16		448654	2010 <i>VG</i> ₁₁₉		9 10.3 294°38'	0.4/9.8	17	
8 9	23 41.47	+27 51.2	1.012	1.788	28.1	20.3	8 9	23 34.48	- 3 43.7	2.083	2.963	11.6	21.9
8 19	23 37.11	+30 46.4	0.949	1.777	25.9	20.1	8 19	23 29.97	- 4 19.6	1.999	2.947	8.4	21.6
8 29	23 28.89	+33 4.5	0.900	1.767	23.7	19.9	8 29	23 23.80	- 5 5.6	1.940	2.930	4.7	21.4
9 8	23 17.61	+34 31.9	0.864	1.757	21.8	19.8	9 8	23 16.56	- 5 57.3	1.907	2.914	0.9	21.1
9 18	23 4.90	+34 58.6	0.843	1.749	20.7	19.7	9 18	23 9.00	- 6 49.5	1.902	2.898	3.4	21.2
9 28	22 53.12	+34 23.6	0.838	1.741	20.8	19.6	9 28	23 1.98	- 7 36.5	1.925	2.881	7.3	21.5
10 8	22 44.50	+32 58.0	0.849	1.734	22.0	19.7	10 8	22 56.29	- 8 13.6	1.973	2.865	10.9	21.6
10 18	22 40.43	+30 59.7	0.874	1.728	24.1	19.8	10 18	22 52.48	- 8 37.7	2.044	2.849	14.0	21.8
392766	2012 <i>TJ</i> ₅₇		9 10.3 258°17'	4.6/15.3	18		393098	2013 <i>AJ</i> ₁₃₂		9 10.3 248°00'	0.5/9.1	15	
8 9	23 35.51	+11 48.1	2.083	2.897	14.1	21.5	8 9	23 28.25	- 6 26.5	4.831	5.703	5.7	22.0
8 19	23 30.79	+11 28.0	1.984	2.878	11.4	21.3	8 19	23 24.70	- 6 53.1	4.747	5.691	4.0	21.8
8 29	23 24.30	+10 45.9	1.908	2.859	8.3	21.1	8 29	23 20.51	- 7 22.8	4.690	5.680	2.2	21.7
9 8	23 16.62	+ 9 43.1	1.856	2.839	5.5	20.9	9 8	23 15.93	- 7 53.6	4.663	5.669	0.6	21.5
9 18	23 8.52	+ 8 23.0	1.832	2.819	4.7	20.8	9 18	23 11.25	- 8 23.6	4.666	5.658	1.8	21.6
9 28	23 0.91	+ 6 52.1	1.835	2.798	7.0	20.9	9 28	23 6.79	- 8 50.8	4.699	5.646	3.6	21.8
10 8	22 54.64	+ 5 18.6	1.866	2.777	10.3	21.0	10 8	23 2.86	- 9 13.5	4.760	5.634	5.3	21.9
10 18	22 50.34	+ 3 50.2	1.921	2.755	13.6	21.2	10 18	22 59.69	- 9 30.3	4.847	5.623	6.9	22.0
387382	2013 <i>AB</i> ₄₁		9 10.3 276°01'	0.2/9.9	16		520547	2014 <i>MM</i> ₇₆		9 10.3 94°66'	0.7/10.9	18	
8 9	23 27.99	- 4 8.5	4.418	5.285	6.2	21.0	8 9	23 37.04	- 1 47.0	2.279	3.145	11.3	21.6
8 19	23 24.54	- 4 36.4	4.340	5.281	4.4	20.9	8 19	23 31.54	- 1 54.4	2.211	3.149	8.3	21.4
8 29	23 20.40	- 5 8.4	4.289	5.278	2.5	20.7	8 29	23 24.55	- 2 10.7	2.168	3.153	4.8	21.2
9 8	23 15.86	- 5 42.6	4.267	5.274	0.4	20.6	9 8	23 16.70	- 2 32.8	2.152	3.158	1.3	20.9
9 18	23 11.23	- 6 16.9	4.275	5.270	1.7	20.7	9 18	23 8.69	- 2 57.3	2.165	3.162	2.7	21.1
9 28	23 6.85	- 6 48.8	4.313	5.266	3.7	20.8	9 28	23 1.31	- 3 20.1	2.206	3.166	6.2	21.3
10 8	23 3.04	- 7 16.5	4.380	5.263	5.6	21.0	10 8	22 55.23	- 3 37.8	2.274	3.170	9.4	21.5
10 18	23 0.06	- 7 38.3	4.471	5.259	7.2	21.1	10 18	22 50.94	- 3 47.8	2.365	3.174	12.2	21.7
400970	2010 <i>WO</i> ₁₂		9 10.3 340°35'	2.2/12.3	17		395756	2012 <i>VJ</i> ₂₈		9 10.3 275°58'	1.2/11.3	18	
8 9	23 36.94	+ 2 13.8	2.051	2.908	12.7	21.4	8 9	23 37.66	+ 0 10.6	1.797	2.667	13.7	21.9
8 19	23 31.66	+ 2 19.2	1.977	2.906	9.6	21.2	8 19	23 32.52	- 0 6.1	1.712	2.651	10.2	21.6
8 29	23 24.69	+ 2 12.1	1.926	2.904	6.1	21.0	8 29	23 25.38	- 0 36.9	1.649	2.634	6.1	21.4
9 8	23 16.69	+ 1 54.7	1.901	2.902	2.8	20.8	9 8	23 16.89	- 1 18.3	1.612	2.617	2.0	21.1
9 18	23 8.43	+ 1 30.3	1.903	2.900	3.2	20.8	9 18	23 7.97	- 2 5.4	1.602	2.599	3.3	21.1
9 28	23 0.83	+ 1 3.2	1.934	2.898	6.6	21.0	9 28	22 59.66	- 2 51.9	1.619	2.582	7.7	21.4
10 8	22 54.64	+ 0 38.1	1.990	2.896	10.1	21.3	10 8	22 52.94	- 3 31.9	1.661	2.564	11.9	21.6
10 18	22 50.41	+ 0 19.0	2.070	2.895	13.1	21.5	10 18	22 48.49	- 4 0.7	1.725	2.547	15.4	21.8
513468	2009 <i>BL</i> ₁₇₇		9 10.3 77°33'	1.1/9.1	18		297217	2011 <i>KX</i> ₉		9 10.3 25°76'	0.5/9.8	18	
8 9	23 35.53	- 4 52.6	1.839	2.726	12.6	21.5	8 9	23 33.77	- 2 20.9	1.244	2.146	16.3	19.8
8 19	23 30.70	- 5 45.0	1.781	2.732	9.0	21.3	8 19	23 29.99	- 3 16.5	1.198	2.155	11.7	19.6
8 29	23 24.15	- 6 47.1	1.746	2.738	4.9	21.1	8 29	23 23.95	- 4 28.4	1.173	2.166	6.5	19.3
9 8	23 16.58	- 7 52.9	1.738	2.745	1.2	20.9	9 8	23 16.60	- 5 48.2	1.171	2.178	1.1	19.0
9 18	23 8.85	- 8 55.8	1.758	2.751	4.0	21.1	9 18	23 9.11	- 7 6.3	1.194	2.191	4.5	19.3
9 28	23 1.90	- 9 49.4	1.804	2.757	8.0	21.3	9 28	23 2.74	- 8 12.9	1.242	2.205	9.6	19.6
10 8	22 56.50	-10 29.1	1.876	2.763	11.6	21.6	10 8	22 58.45	- 9 1.4	1.311	2.219	14.0	19.9
10 18	22 53.17	-10 52.7	1.969	2.769	14.6	21.8	10 18	22 56.77	- 9 28.8	1.400	2.234	17.7	20.2
253616	2003 <i>UA</i> ₆₁		9 10.3 297°12'	1.9/8.7	18		35672	1998 <i>UZ</i> ₁₄		9 10.3 269°42'	1.0/8.4	17	
8 9	23 35.84	- 5 3.7	1.314	2.216	15.6	20.3	8 9	23 28.83	- 8 38.2	4.291	5.170	6.2	19.5
8 19	23 31.77	- 6 9.4	1.237	2.197	11.2	20.0	8 19	23 25.17	- 9 7.0	4.218	5.167	4.3	19.4
8 29	23 25.17	- 7 31.7	1.183	2.177	6.3	19.6	8 29	23 20.79	- 9 38.2	4.173	5.164	2.4	19.2
9 8	23 16.83	- 9 2.4	1.152	2.158	1.9	19.3	9 8	23 15.99	-10 9.6	4.157	5.161	1.0	19.1
9 18	23 7.89	-10 30.7	1.146	2.139	5.7	19.5	9 18	23 11.10	-10 39.0	4.171	5.158	2.3	19.2
9 28	22 59.78	-11 45.7	1.164	2.120	11.1	19.8	9 28	23 6.49	-11 4.1	4.214	5.156	4.2	19.4
10 8	22 53.74	-12 39.3	1.205	2.101	16.0	20.0	10 8	23 2.48	-11 23.2	4.285	5.153	6.0	19.5
10 18	22 50.59	-13 7.9	1.264	2.083	20.1	20.2	10 18	22 59.35	-11 35.1	4.381	5.150	7.6	19.6
120892	1998 <i>SO</i> ₃		9 10.3 248°73'	2.9/6.8	18		49773	1999 <i>WJ</i> ₈					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
480573	2015 <i>MO</i> ₇₄		9 10.3 338°13	1.4/11.6	18		324409	2006 <i>SE</i> ₂₀₂		9 10.3 25°28	1.6/9.4	17	
8 9	23 34.47	+ 1 20.6	1.632	2.508	14.5	21.0	8 9	23 41.56	- 7 35.6	1.136	2.042	17.2	19.6
8 19	23 30.25	+ 0 54.3	1.561	2.502	10.8	20.7	8 19	23 35.84	- 7 41.3	1.088	2.048	12.3	19.4
8 29	23 24.07	+ 0 11.3	1.511	2.497	6.6	20.5	8 29	23 27.38	- 7 55.4	1.061	2.055	6.9	19.1
9 8	23 16.65	- 0 44.1	1.487	2.491	2.2	20.2	9 8	23 17.31	- 8 11.5	1.056	2.063	1.8	18.8
9 18	23 8.90	- 1 45.8	1.488	2.487	3.4	20.3	9 18	23 7.11	- 8 22.9	1.076	2.071	5.3	19.1
9 28	23 1.92	- 2 46.3	1.516	2.482	7.8	20.5	9 28	22 58.30	- 8 24.0	1.119	2.080	10.6	19.4
10 8	22 56.60	- 3 38.7	1.568	2.478	12.0	20.8	10 8	22 52.07	- 8 11.4	1.184	2.090	15.4	19.7
10 18	22 53.56	- 4 18.1	1.642	2.475	15.6	21.0	10 18	22 48.99	- 7 44.2	1.267	2.100	19.3	20.0
313906	2004 <i>PP</i> ₁		9 10.3 359°60	1.5/11.3	18		48309	2002 <i>LG</i> ₅₇		9 10.3 356°44	8.7/19.3	18	
8 9	23 36.28	- 1 17.0	1.489	2.375	15.1	19.3	8 9	23 34.48	+ 19 41.0	1.683	2.468	18.1	18.7
8 19	23 31.66	- 1 2.4	1.425	2.372	11.2	19.0	8 19	23 30.37	+ 20 4.0	1.608	2.466	15.5	18.5
8 29	23 24.90	- 1 0.3	1.382	2.370	6.7	18.8	8 29	23 24.22	+ 19 57.7	1.551	2.465	12.6	18.4
9 8	23 16.81	- 1 7.7	1.364	2.369	2.2	18.5	9 8	23 16.74	+ 19 20.8	1.515	2.464	10.0	18.2
9 18	23 8.44	- 1 20.5	1.371	2.369	3.6	18.6	9 18	23 8.90	+ 18 15.2	1.502	2.464	8.7	18.1
9 28	23 0.97	- 1 33.5	1.403	2.371	8.2	18.9	9 28	23 1.81	+ 16 47.3	1.514	2.464	9.5	18.2
10 8	22 55.37	- 1 41.7	1.459	2.373	12.4	19.1	10 8	22 56.43	+ 15 7.1	1.550	2.464	11.9	18.3
10 18	22 52.26	- 1 41.5	1.536	2.377	16.1	19.4	10 18	22 53.42	+ 13 24.9	1.609	2.465	14.7	18.5
475401	2006 <i>HH</i> ₁₅₂		9 10.3 72°24	3.9/6.5	16		441349	2008 <i>CG</i> ₂₁₂		9 10.3 284°35	0.6/9.8	18	
8 9	23 36.70	- 11 44.0	1.675	2.577	12.8	21.1	8 9	23 38.87	- 5 45.2	1.991	2.871	12.1	20.7
8 19	23 31.64	- 13 2.6	1.633	2.591	9.1	20.9	8 19	23 33.13	- 5 55.9	1.919	2.866	8.7	20.5
8 29	23 24.72	- 14 24.4	1.615	2.606	5.4	20.8	8 29	23 25.61	- 6 13.5	1.870	2.860	4.9	20.3
9 8	23 16.76	- 15 41.1	1.623	2.620	3.9	20.7	9 8	23 17.00	- 6 34.2	1.848	2.855	1.0	20.0
9 18	23 8.74	- 16 45.0	1.658	2.635	6.4	20.9	9 18	23 8.13	- 6 53.8	1.854	2.850	3.5	20.2
9 28	23 1.66	- 17 30.3	1.718	2.650	10.0	21.1	9 28	22 59.97	- 7 8.0	1.889	2.844	7.5	20.4
10 8	22 56.35	- 17 54.4	1.802	2.664	13.3	21.4	10 8	22 53.31	- 7 13.5	1.948	2.839	11.1	20.6
10 18	22 53.27	- 17 57.5	1.906	2.679	16.0	21.6	10 18	22 48.74	- 7 8.5	2.030	2.834	14.1	20.8
185398	2006 <i>WF</i> ₉₂		9 10.3 62°83	0.5/9.9	17		390792	2004 <i>BL</i> ₁₄₉		9 10.3 123°21	4.0/5.6	18	
8 9	23 38.96	- 2 50.8	1.303	2.196	16.3	19.9	8 9	23 36.67	- 14 27.3	2.124	3.019	10.8	21.2
8 19	23 33.57	- 3 36.5	1.261	2.214	11.7	19.6	8 19	23 31.37	- 15 41.9	2.076	3.030	7.8	21.0
8 29	23 25.91	- 4 36.3	1.240	2.232	6.5	19.4	8 29	23 24.52	- 16 57.2	2.054	3.040	5.0	20.9
9 8	23 16.99	- 5 42.7	1.244	2.251	1.1	19.1	9 8	23 16.78	- 18 6.3	2.060	3.051	4.1	20.9
9 18	23 8.04	- 6 46.9	1.273	2.269	4.4	19.4	9 18	23 8.94	- 19 3.1	2.093	3.061	6.1	21.0
9 28	23 0.32	- 7 40.8	1.327	2.288	9.3	19.7	9 28	23 1.84	- 19 43.1	2.154	3.070	9.0	21.2
10 8	22 54.79	- 8 18.6	1.405	2.307	13.7	20.0	10 8	22 56.19	- 20 4.4	2.238	3.079	11.8	21.4
10 18	22 51.97	- 8 37.9	1.502	2.326	17.2	20.3	10 18	22 52.43	- 20 7.1	2.344	3.088	14.1	21.6
227238	2005 <i>SL</i> ₂₈		9 10.3 43°31	4.9/14.7	17		396923	2005 <i>EU</i> ₁₉₆		9 10.3 286°75	4.3/15.4	18	
8 9	23 35.23	+ 9 47.6	1.304	2.159	18.6	20.1	8 9	23 34.89	+ 13 35.4	1.929	2.739	15.2	21.2
8 19	23 31.03	+ 9 26.9	1.251	2.172	14.6	19.9	8 19	23 30.64	+ 12 28.8	1.813	2.706	12.3	20.9
8 29	23 24.57	+ 8 37.6	1.217	2.185	10.2	19.7	8 29	23 24.43	+ 10 51.3	1.719	2.672	8.9	20.6
9 8	23 16.76	+ 7 23.5	1.206	2.198	6.1	19.5	9 8	23 16.82	+ 8 44.3	1.651	2.638	5.5	20.3
9 18	23 8.78	+ 5 52.1	1.219	2.212	5.2	19.5	9 18	23 8.62	+ 6 13.4	1.611	2.603	4.5	20.2
9 28	23 1.88	+ 4 14.2	1.256	2.227	8.5	19.7	9 28	23 0.83	+ 3 29.1	1.601	2.567	7.5	20.3
10 8	22 57.06	+ 2 41.3	1.318	2.242	12.7	20.0	10 8	22 54.43	+ 0 44.1	1.619	2.531	11.5	20.5
10 18	22 54.89	+ 1 21.8	1.400	2.257	16.4	20.3	10 18	22 50.17	- 1 49.6	1.662	2.495	15.5	20.6
319990	2007 <i>DO</i> ₂		9 10.3 102°56	3.3/5.8	18		145976	2000 <i>AR</i> ₆₅		9 10.3 332°12	1.4/10.9	18	
8 9	23 34.03	- 12 23.9	2.385	3.278	9.8	20.9	8 9	23 39.59	- 3 56.7	1.035	1.942	18.4	18.0
8 19	23 29.33	- 13 50.6	2.339	3.293	7.0	20.7	8 19	23 35.18	- 3 13.1	0.960	1.918	13.8	17.6
8 29	23 23.29	- 15 19.3	2.319	3.307	4.3	20.6	8 29	23 27.50	- 2 39.1	0.903	1.895	8.3	17.2
9 8	23 16.50	- 16 43.7	2.328	3.322	3.4	20.6	9 8	23 17.46	- 2 12.6	0.867	1.873	2.4	16.8
9 18	23 9.62	- 17 57.9	2.366	3.336	5.3	20.6	9 18	23 6.51	- 1 50.4	0.854	1.853	4.9	16.9
9 28	23 3.36	- 18 57.0	2.431	3.350	8.1	20.9	9 28	22 56.54	- 1 28.0	0.863	1.834	11.2	17.2
10 8	22 58.33	- 19 38.5	2.522	3.363	10.6	21.1	10 8	22 49.23	- 1 0.7	0.892	1.817	17.0	17.4
10 18	22 54.93	- 20 1.9	2.635	3.377	12.8	21.3	10 18	22 45.60	- 0 25.1	0.938	1.802	22.0	17.7
66554	1999 <i>RT</i> ₁₃₁		9 10.3 284°56	5.1/14.3	18		193666	2001 <i>DE</i> ₆₃		9 10.3 215°51	0.2/10.1	18	
8 9	23 38.95	+ 8 39.2	1.761	2.596	15.5	18.6	8 9	23 36.88	- 2 34.5	2.033	2.907	12.1	21.1
8 19	23 33.59	+ 9 6.0	1.672	2.580	12.4	18.4	8 19	23 31.69	- 3 15.1	1.958	2.902	8.8	20.9
8 29	23 26.07	+ 9 14.0	1.604	2.564	8.9	18.2	8 29	23 24.81	- 4 6.8	1.907	2.896	5.0	20.6
9 8	23 17.08	+ 9 3.1	1.561	2.548	5.9	18.0	9 8	23 16.86	- 5 4.9	1.884	2.891	0.9	20.3
9 18	23 7.56	+ 8 35.5	1.544	2.531	5.4	17.9	9 18	23 8.65	- 6 3.8	1.888	2.884	3.3	20.5
9 28	22 58.64	+ 7 55.9	1.553	2.515	8.1	18.0	9 28	23 1.07	- 6 57.5	1.921	2.878	7.3	20.7
10 8	22 51.38	+ 7 11.2	1.587	2.499	11.8	18.2	10 8	22 54.92	- 7 41.0	1.980	2.871	10.9	21.0
10 18	22 46.50	+ 6 28.3	1.644	2.483	15.3	18.4	10 18	22 50.73	- 8 11.2	2.061	2.864	14.0	21.2
251949	1999 <i>XL</i> ₆₆		9 10.3 130°74	8.7/28.9	18		363440	2003 <i>SO</i> ₁₁₄		9 10.3 0°49	0.4/10.8	18	
8 9	23 39.41	- 36 16.9	2.634	3.491	10.2	20.5	8 9	23 32.58	- 0 28.6	1.971	2.847	12.4	20.3
8 19	23 33.23	- 37 33.7	2.610	3.501	9.1	20.4	8 19	23 28.61	- 1 13.6	1.903	2.847	9.0	20.1
8 29	23 25.50	- 38 36.0	2.611	3.510	8.7	20.4	8 29	23 23.05	- 2 11.6	1.858	2.846	5.2	19.8
9 8	23 16.92	- 39 18.3	2.636	3.519	9.1	20.4	9 8	23 16.52	- 3 17.9	1.840	2.846	1.2	19.6
9 18	23 8.32	- 39 37.0	2.686	3.528	10.2	20.5	9 18	23 9.80	- 4 26.7	1.849	2.846	3.0	19.7
9 28	23 0.53	- 39 31.2	2.759	3.537	11.6	20.7	9 28	23 3.70	- 5 31.3	1.885	2.847	7.0	20.0
10 8	22 54.25	- 39 2.5	2.851	3.545	13.0	20.8	10 8	22 58.97	- 6 26.2	1.947	2.848	10.5	20.2
10 18	22 49.92	- 38 14.0	2.960	3.553	14.2	20.9	10 18	22 56.11	- 7 7.5	2.032	2.849	13.6	20.4
98891	2001 <i>BK</i> ₄₁		9 10.3 84°25	4.4/14.6									

EPHEMERIDES

9 10.3

9 10.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
79148	1992 <i>SN</i> ₃		9 10.3 264°02	0°8/ 9.4	18		86091	1999 <i>RF</i> ₉₂		9 10.3 316°21	1°7/12.2	18	
8 9	23 35.50	- 4 17.0	2.083	2.963	11.6	20.4	8 9	23 31.69	+ 3 53.5	1.876	2.740	13.4	18.6
8 19	23 30.75	- 5 5.5	2.000	2.947	8.4	20.1	8 19	23 28.18	+ 3 3.0	1.789	2.723	10.1	18.4
8 29	23 24.31	- 6 4.4	1.941	2.931	4.7	19.9	8 29	23 22.93	+ 1 53.4	1.725	2.706	6.4	18.1
9 8	23 16.78	- 7 8.7	1.909	2.915	1.0	19.6	9 8	23 16.55	+ 0 28.6	1.686	2.689	2.5	17.9
9 18	23 8.92	- 8 12.4	1.905	2.899	3.6	19.8	9 18	23 9.81	- 1 4.9	1.674	2.673	3.1	17.9
9 28	23 1.60	- 9 9.5	1.930	2.883	7.5	20.0	9 28	23 3.61	- 2 38.9	1.690	2.657	7.2	18.1
10 8	22 55.62	- 9 54.9	1.980	2.866	11.1	20.2	10 8	22 58.80	- 4 5.3	1.732	2.641	11.1	18.3
10 18	22 51.55	- 10 25.6	2.052	2.849	14.2	20.3	10 18	22 55.98	- 5 17.8	1.796	2.626	14.6	18.5
338010	2002 <i>EH</i> ₁₄₀		9 10.3 184°73	0°6/ 9.8	18		59117	1998 <i>XQ</i> ₃		9 10.3 250°23	3°8/ 6.5	18	
8 9	23 40.61	- 5 22.5	1.792	2.672	13.2	21.2	8 9	23 37.19	- 13 10.0	1.897	2.794	11.8	19.0
8 19	23 34.51	- 5 38.5	1.725	2.673	9.5	20.9	8 19	23 31.99	- 14 7.5	1.836	2.792	8.5	18.8
8 29	23 26.44	- 6 2.6	1.682	2.672	5.3	20.7	8 29	23 25.00	- 15 7.4	1.800	2.789	5.2	18.6
9 8	23 17.18	- 6 30.4	1.665	2.672	1.0	20.4	9 8	23 16.93	- 16 3.0	1.791	2.787	3.8	18.5
9 18	23 7.69	- 6 57.0	1.677	2.672	3.8	20.6	9 18	23 8.65	- 16 47.7	1.808	2.785	6.1	18.7
9 28	22 59.03	- 7 17.3	1.715	2.671	8.0	20.9	9 28	23 1.13	- 17 16.7	1.853	2.782	9.5	18.9
10 8	22 52.09	- 7 27.6	1.779	2.670	11.9	21.1	10 8	22 55.19	- 17 27.4	1.921	2.780	12.7	19.1
10 18	22 47.46	- 7 25.9	1.864	2.669	15.1	21.3	10 18	22 51.37	- 17 19.7	2.009	2.777	15.4	19.3
481275	2005 <i>YA</i> ₂₆		9 10.3 62°69	10°5/22.8	18		390400	2013 <i>YO</i> ₅		9 10.3 135°33	1°5/ 8.9	17	
8 9	23 40.15	+ 28 15.5	2.308	2.992	16.4	20.4	8 9	23 37.45	- 5 53.4	1.725	2.614	13.2	21.3
8 19	23 34.15	+ 29 30.6	2.236	3.001	14.7	20.3	8 19	23 32.27	- 6 44.5	1.664	2.617	9.4	21.1
8 29	23 26.27	+ 30 21.0	2.182	3.011	13.0	20.1	8 29	23 25.19	- 7 45.1	1.627	2.620	5.2	20.9
9 8	23 17.17	+ 30 43.6	2.150	3.020	11.5	20.1	9 8	23 16.96	- 8 48.7	1.617	2.622	1.5	20.6
9 18	23 7.69	+ 30 37.5	2.140	3.029	10.6	20.0	9 18	23 8.53	- 9 48.3	1.633	2.625	4.4	20.8
9 28	22 58.82	+ 30 4.9	2.155	3.038	10.6	20.1	9 28	23 0.93	- 10 37.4	1.676	2.628	8.6	21.1
10 8	22 51.45	+ 29 11.9	2.192	3.048	11.5	20.1	10 8	22 55.02	- 11 11.4	1.744	2.630	12.4	21.3
10 18	22 46.21	+ 28 5.7	2.253	3.057	12.9	20.2	10 18	22 51.36	- 11 28.3	1.833	2.632	15.6	21.6
15442	1998 <i>WN</i> ₁₁		9 10.3 294°45	0°9/ 8.5	18		449436	2013 <i>HN</i> ₁₁₈		9 10.3 1°22	1°7/ 8.5	18	
8 9	23 28.89	- 8 6.8	4.122	5.000	6.4	19.0	8 9	23 35.59	- 8 6.8	2.133	3.020	11.1	21.6
8 19	23 25.30	- 8 38.2	4.039	4.987	4.5	18.8	8 19	23 30.66	- 8 46.9	2.068	3.020	7.9	21.4
8 29	23 20.95	- 9 12.5	3.984	4.974	2.5	18.7	8 29	23 24.18	- 9 32.6	2.028	3.020	4.4	21.2
9 8	23 16.13	- 9 47.5	3.957	4.962	1.0	18.5	9 8	23 16.77	- 10 19.0	2.016	3.020	1.7	21.0
9 18	23 11.19	- 10 20.7	3.960	4.949	2.3	18.6	9 18	23 9.19	- 11 1.0	2.031	3.020	4.1	21.2
9 28	23 6.51	- 10 49.7	3.993	4.936	4.4	18.8	9 28	23 2.25	- 11 33.8	2.074	3.020	7.5	21.4
10 8	23 2.45	- 11 12.5	4.053	4.923	6.3	18.9	10 8	22 56.68	- 11 54.2	2.142	3.020	10.8	21.6
10 18	22 59.29	- 11 27.7	4.138	4.910	8.0	19.0	10 18	22 52.95	- 12 0.7	2.233	3.021	13.5	21.8
343907	2011 <i>JZ</i> ₂₄		9 10.3 6°74	4°8/14.7	16		15639	2074 <i>P-L</i>		9 10.3 269°16	1°8/11.8	18	
8 9	23 29.41	+ 9 26.3	1.142	2.016	19.5	19.7	8 9	23 38.10	+ 1 53.7	1.501	2.374	15.7	19.3
8 19	23 27.16	+ 9 0.6	1.085	2.017	15.3	19.4	8 19	23 33.15	+ 1 31.5	1.425	2.364	11.8	19.1
8 29	23 22.55	+ 8 2.5	1.046	2.019	10.7	19.2	8 29	23 25.90	+ 0 50.8	1.370	2.354	7.3	18.8
9 8	23 16.47	+ 6 36.0	1.028	2.023	6.2	19.0	9 8	23 17.14	- 0 4.6	1.340	2.344	2.7	18.5
9 18	23 10.08	+ 4 49.9	1.032	2.028	5.2	18.9	9 18	23 7.92	- 1 8.3	1.336	2.334	3.7	18.5
9 28	23 4.71	+ 2 57.0	1.060	2.035	9.0	19.2	9 28	22 59.51	- 2 11.9	1.357	2.324	8.6	18.8
10 8	23 1.44	+ 1 11.1	1.110	2.043	13.6	19.5	10 8	22 52.99	- 3 7.6	1.403	2.313	13.1	19.0
10 18	23 0.89	- 0 17.8	1.180	2.053	17.7	19.7	10 18	22 49.09	- 3 49.6	1.470	2.303	17.1	19.3
477049	2009 <i>AZ</i> ₄₅		9 10.3 55°34	6°1/ 3.7	18		478535	2012 <i>TW</i> ₁₀		9 10.3 189°46	8°1/22.7	18	
8 9	23 35.31	- 16 54.0	1.661	2.569	12.5	20.4	8 9	23 36.53	+ 28 3.2	2.575	3.258	14.9	22.0
8 19	23 30.80	- 18 42.9	1.619	2.577	9.2	20.2	8 19	23 31.31	+ 27 49.7	2.482	3.257	13.1	21.9
8 29	23 24.35	- 20 30.7	1.602	2.584	6.6	20.1	8 29	23 24.55	+ 27 9.8	2.406	3.256	11.2	21.8
9 8	23 16.79	- 22 7.4	1.611	2.592	6.4	20.1	9 8	23 16.85	+ 26 2.4	2.354	3.253	9.4	21.6
9 18	23 9.08	- 23 24.1	1.645	2.600	8.7	20.2	9 18	23 8.92	+ 24 29.2	2.326	3.250	8.2	21.6
9 28	23 2.27	- 24 15.1	1.705	2.608	11.8	20.5	9 28	23 1.56	+ 22 35.0	2.326	3.247	8.3	21.6
10 8	22 57.22	- 24 38.9	1.786	2.617	14.8	20.7	10 8	22 55.48	+ 20 27.3	2.354	3.242	9.5	21.6
10 18	22 54.46	- 24 37.0	1.886	2.625	17.3	20.9	10 18	22 51.18	+ 18 15.0	2.409	3.237	11.4	21.8
430728	2004 <i>FR</i> ₁₀₀		9 10.3 146°48	0°9/ 9.5	17		295950	2008 <i>XG</i> ₅₀		9 10.3 276°66	1°5/ 8.9	18	
8 9	23 41.10	- 5 15.6	1.779	2.659	13.3	21.9	8 9	23 37.67	- 6 55.1	1.800	2.689	12.7	21.4
8 19	23 34.81	- 5 47.6	1.719	2.667	9.5	21.7	8 19	23 32.47	- 7 30.8	1.729	2.681	9.1	21.1
8 29	23 26.58	- 6 28.4	1.684	2.674	5.3	21.5	8 29	23 25.34	- 8 14.6	1.682	2.674	5.1	20.9
9 8	23 17.21	- 7 12.7	1.674	2.681	1.1	21.2	9 8	23 17.02	- 9 0.8	1.661	2.667	1.6	20.6
9 18	23 7.69	- 7 54.6	1.693	2.687	3.9	21.5	9 18	23 8.41	- 9 43.4	1.668	2.660	4.3	20.8
9 28	22 59.06	- 8 28.5	1.740	2.693	8.2	21.7	9 28	23 0.54	- 10 16.8	1.702	2.653	8.5	21.1
10 8	22 52.20	- 8 50.5	1.811	2.699	11.9	22.0	10 8	22 54.29	- 10 36.9	1.759	2.646	12.3	21.3
10 18	22 47.64	- 8 58.5	1.905	2.704	15.1	22.2	10 18	22 50.26	- 10 41.7	1.839	2.639	15.5	21.5
128632	2004 <i>RT</i> ₁₁		9 10.3 149°20	0°3/10.8	18		206061	2002 <i>QL</i> ₁₁₄		9 10.3 339°95	3°2/13.2	18	
8 9	23 32.60	- 2 4.2	3.246	4.107	8.4	20.3	8 9	23 36.53	+ 5 19.2	1.751	2.605	14.7	20.4
8 19	23 28.07	- 2 21.8	3.173	4.109	6.1	20.2	8 19	23 31.68	+ 5 15.2	1.679	2.603	11.3	20.2
8 29	23 22.54	- 2 45.8	3.126	4.112	3.5	20.0	8 29	23 24.92	+ 4 53.3	1.628	2.601	7.5	20.0
9 8	23 16.44	- 3 13.8	3.108	4.114	0.8	19.8	9 8	23 16.95	+ 4 15.9	1.602	2.600	4.0	19.8
9 18	23 10.22	- 3 43.1	3.119	4.116	2.0	19.9	9 18	23 8.67	+ 3 27.4	1.603	2.598	3.9	19.8
9 28	23 4.39	- 4 10.8	3.160	4.118	4.7	20.1	9 28	23 1.14	+ 2 34.0	1.630	2.597	7.3	20.0
10 8	22 59.41	- 4 34.2	3.228	4.119	7.1	20.2	10 8	22 55.22	+ 1 42.7	1.682	2.595	11.1	20.2
10 18	22 55.64	- 4 51.2	3.322	4.121	9.2	20.4	10 18	22 51.53	+ 0 59.2	1.757	2.594	14.5	20.4
150258	1999 <i>RV</i> ₁₈		9 10.3 354°13	0°2/10.2	18								

EPHEMERIDES

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9 10.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
103864	2000 <i>DX</i> ₄₁		9 10.3 96°47'	0°2'/10.1	18		440389	2005 <i>GP</i> ₆₈		9 10.3 174°00'	5°7'/3.2	18	
8 9	23 37.45	- 3 27.2	1.865	2.744	12.8	19.9	8 9	23 38.13	-21 22.1	2.375	3.266	10.0	22.0
8 19	23 32.17	- 3 54.6	1.800	2.747	9.3	19.7	8 19	23 32.43	-22 42.0	2.326	3.268	7.6	21.9
8 29	23 25.11	- 4 32.0	1.759	2.749	5.2	19.5	8 29	23 25.18	-23 57.8	2.302	3.271	5.9	21.8
9 8	23 16.97	- 5 14.9	1.745	2.751	1.0	19.2	9 8	23 17.03	-25 2.7	2.306	3.273	5.9	21.8
9 18	23 8.64	- 5 57.9	1.757	2.754	3.4	19.4	9 18	23 8.74	-25 51.2	2.337	3.274	7.5	21.9
9 28	23 1.06	- 6 35.5	1.798	2.756	7.5	19.6	9 28	23 1.12	-26 19.9	2.395	3.275	9.8	22.0
10 8	22 55.06	- 7 3.2	1.863	2.758	11.2	19.9	10 8	22 54.87	-26 27.9	2.477	3.275	12.1	22.2
10 18	22 51.16	- 7 18.3	1.951	2.760	14.4	20.1	10 18	22 50.47	-26 16.4	2.578	3.274	14.1	22.3
366147	2012 <i>EP</i> ₂		9 10.3 197°60'	0°4'/9.8	18		226523	2003 <i>UO</i> ₉₃		9 10.3 313°59'	1°1'/11.4	18	
8 9	23 34.53	- 4 2.3	2.569	3.442	10.0	22.0	8 9	23 34.99	- 0 13.7	2.101	2.969	12.0	20.2
8 19	23 29.70	- 4 39.8	2.496	3.440	7.2	21.8	8 19	23 30.39	- 0 25.8	2.018	2.956	8.9	20.0
8 29	23 23.58	- 5 25.0	2.448	3.438	4.0	21.6	8 29	23 24.15	- 0 49.3	1.958	2.942	5.4	19.7
9 8	23 16.68	- 6 13.9	2.429	3.435	0.7	21.3	9 8	23 16.86	- 1 21.2	1.924	2.929	1.7	19.5
9 18	23 9.60	- 7 2.4	2.438	3.433	2.8	21.5	9 18	23 9.27	- 1 57.5	1.919	2.917	2.9	19.5
9 28	23 3.02	- 7 46.0	2.477	3.430	6.1	21.7	9 28	23 2.21	- 2 33.3	1.941	2.904	6.6	19.8
10 8	22 57.53	- 8 21.3	2.542	3.427	9.0	21.9	10 8	22 56.47	- 3 4.0	1.988	2.892	10.2	20.0
10 18	22 53.59	- 8 45.7	2.631	3.424	11.5	22.1	10 18	22 52.60	- 3 25.8	2.059	2.880	13.3	20.1
38619	2000 <i>AW</i> ₁₈₃		9 10.3 310°08'	1°1'/8.2	17		97112	1999 <i>VW</i> ₈₃		9 10.3 264°76'	1°1'/11.3	18	
8 9	23 28.32	- 7 54.0	3.894	4.775	6.7	18.6	8 9	23 36.96	+ 0 18.7	1.821	2.691	13.5	19.4
8 19	23 24.96	- 8 39.2	3.814	4.764	4.7	18.4	8 19	23 31.99	- 0 5.8	1.745	2.683	10.0	19.2
8 29	23 20.79	- 9 28.1	3.761	4.753	2.6	18.2	8 29	23 25.13	- 0 44.4	1.691	2.676	6.0	18.9
9 8	23 16.15	-10 17.8	3.737	4.742	1.1	18.1	9 8	23 17.06	- 1 33.3	1.663	2.668	1.8	18.7
9 18	23 11.37	-11 5.4	3.743	4.731	2.5	18.2	9 18	23 8.66	- 2 27.0	1.662	2.660	3.2	18.7
9 28	23 6.87	-11 48.0	3.779	4.720	4.7	18.4	9 28	23 0.93	- 3 19.3	1.688	2.652	7.5	19.0
10 8	23 3.02	-12 23.3	3.842	4.709	6.7	18.5	10 8	22 54.77	- 4 4.0	1.740	2.644	11.4	19.2
10 18	23 0.11	-12 49.8	3.929	4.699	8.4	18.6	10 18	22 50.78	- 4 37.0	1.814	2.635	14.8	19.4
23355	Elephenor		9 10.3 319°76'	0°6'/9.1	17		396966	2005 <i>RX</i> ₄₆		9 10.3 358°10'	6°5'/4.1	18	
8 9	23 28.39	- 6 7.5	4.145	5.019	6.5	19.0	8 9	23 35.73	-19 35.0	1.643	2.551	12.6	20.6
8 19	23 24.94	- 6 40.8	4.070	5.016	4.6	18.8	8 19	23 31.21	-20 47.3	1.593	2.549	9.5	20.4
8 29	23 20.76	- 7 17.9	4.022	5.013	2.5	18.7	8 29	23 24.68	-21 55.9	1.568	2.547	7.1	20.2
9 8	23 16.14	- 7 56.4	4.003	5.009	0.7	18.5	9 8	23 16.96	-22 52.1	1.567	2.546	6.8	20.2
9 18	23 11.43	- 8 33.9	4.014	5.006	2.0	18.7	9 18	23 9.06	-23 28.8	1.591	2.546	8.9	20.3
9 28	23 6.99	- 9 7.8	4.054	5.003	4.1	18.8	9 28	23 2.08	-23 41.6	1.639	2.546	11.9	20.5
10 8	23 3.16	- 9 36.1	4.123	4.999	6.0	18.9	10 8	22 56.90	-23 29.8	1.708	2.547	14.9	20.7
10 18	23 0.22	- 9 57.4	4.216	4.996	7.7	19.1	10 18	22 54.08	-22 55.3	1.796	2.549	17.6	20.9
370209	2002 <i>GO</i> ₁₀₃		9 10.3 253°32'	4°9'/6.2	18		227950	2007 <i>GF</i> ₅₇		9 10.3 268°40'	0°6'/10.9	18	
8 9	23 39.12	-12 52.4	1.408	2.315	14.4	20.3	8 9	23 36.14	+ 0 30.2	1.704	2.578	14.1	21.3
8 19	23 33.95	-14 11.7	1.350	2.310	10.4	20.0	8 19	23 31.59	- 0 21.4	1.620	2.562	10.4	21.1
8 29	23 26.36	-15 36.0	1.314	2.305	6.5	19.8	8 29	23 25.01	- 1 30.8	1.558	2.545	6.2	20.8
9 8	23 17.26	-16 54.9	1.303	2.299	5.0	19.7	9 8	23 17.06	- 2 52.9	1.522	2.528	1.5	20.4
9 18	23 7.83	-17 58.6	1.318	2.294	7.9	19.9	9 18	23 8.65	- 4 20.3	1.513	2.511	3.5	20.5
9 28	22 59.41	-18 39.6	1.357	2.289	12.0	20.1	9 28	23 0.87	- 5 44.2	1.532	2.494	8.2	20.8
10 8	22 53.10	-18 54.9	1.418	2.283	15.9	20.3	10 8	22 54.72	- 6 56.7	1.575	2.476	12.6	21.0
10 18	22 49.57	-18 45.1	1.497	2.278	19.3	20.5	10 18	22 50.87	- 7 52.5	1.640	2.458	16.3	21.2
91194	1998 <i>SB</i> ₈₅		9 10.3 241°60'	4°1'/6.1	18		19628	1999 <i>RD</i> ₂₂		9 10.3 81°65'	1°0'/9.2	18	
8 9	23 39.52	-17 35.5	2.389	3.276	10.0	18.9	8 9	23 35.46	- 5 40.6	2.119	3.002	11.3	18.0
8 19	23 33.38	-18 5.6	2.323	3.271	7.4	18.7	8 19	23 30.57	- 6 21.4	2.058	3.008	8.1	17.8
8 29	23 25.70	-18 33.5	2.283	3.265	5.0	18.6	8 29	23 24.16	- 7 9.7	2.022	3.013	4.5	17.6
9 8	23 17.10	-18 54.2	2.271	3.259	4.1	18.5	9 8	23 16.85	- 8 0.6	2.013	3.019	1.1	17.4
9 18	23 8.36	-19 3.8	2.287	3.253	5.8	18.6	9 18	23 9.40	- 8 49.0	2.031	3.024	3.6	17.6
9 28	23 0.28	-18 59.5	2.331	3.247	8.5	18.8	9 28	23 2.62	- 9 29.7	2.078	3.030	7.2	17.8
10 8	22 53.56	-18 40.4	2.400	3.241	11.1	18.9	10 8	22 57.19	- 9 59.2	2.151	3.036	10.4	18.0
10 18	22 48.70	-18 7.2	2.492	3.235	13.4	19.1	10 18	22 53.59	-10 15.3	2.246	3.041	13.2	18.2
198374	2004 <i>VA</i> ₂₂		9 10.3 2°68'	1°8'/11.7	18		314579	2005 <i>YQ</i> ₂₃₅		9 10.3 157°01'	3°7'/14.6	18	
8 9	23 32.24	+ 1 26.7	1.137	2.035	17.8	18.9	8 9	23 35.96	+ 8 49.6	2.444	3.264	12.1	21.3
8 19	23 29.25	+ 1 4.7	1.080	2.033	13.3	18.7	8 19	23 30.84	+ 8 54.1	2.367	3.266	9.6	21.2
8 29	23 23.79	+ 0 20.8	1.043	2.032	8.1	18.4	8 29	23 24.30	+ 8 43.5	2.312	3.268	6.8	21.0
9 8	23 16.78	- 0 39.6	1.028	2.033	2.8	18.1	9 8	23 16.89	+ 8 19.2	2.284	3.270	4.4	20.9
9 18	23 9.46	- 1 47.8	1.036	2.036	4.1	18.2	9 18	23 9.27	+ 7 43.8	2.284	3.272	3.9	20.8
9 28	23 3.20	- 2 53.7	1.067	2.039	9.4	18.5	9 28	23 2.19	+ 7 1.3	2.313	3.273	5.9	21.0
10 8	22 59.12	- 3 47.8	1.120	2.045	14.3	18.8	10 8	22 56.29	+ 6 16.8	2.368	3.275	8.6	21.1
10 18	22 57.87	- 4 24.4	1.191	2.051	18.5	19.1	10 18	22 52.05	+ 5 34.7	2.448	3.276	11.2	21.3
370895	2005 <i>ER</i> ₂₈₇		9 10.3 93°97'	1°2'/9.5	17		434983	2006 <i>UL</i> ₁₃₉		9 10.3 261°60'	3°0'/13.1	15	
8 9	23 43.18	- 5 57.7	1.440	2.328	15.3	20.6	8 9	23 37.16	+ 5 53.7	1.658	2.512	15.4	22.0
8 19	23 36.54	- 6 24.4	1.393	2.344	11.0	20.4	8 19	23 32.41	+ 5 26.5	1.571	2.497	11.9	21.8
8 29	23 27.64	- 7 0.2	1.368	2.360	6.1	20.1	8 29	23 25.52	+ 4 37.6	1.506	2.481	7.8	21.5
9 8	23 17.48	- 7 38.7	1.369	2.376	1.4	19.9	9 8	23 17.17	+ 3 29.8	1.465	2.464	3.9	21.2
9 18	23 7.28	- 8 13.5	1.397	2.391	4.5	20.1	9 18	23 8.31	+ 2 8.8	1.451	2.448	3.9	21.2
9 28	22 58.29	- 8 38.5	1.450	2.406	9.2	20.4	9 28	23 0.11	+ 0 43.1	1.464	2.431	8.0	21.4
10 8	22 51.49	- 8 49.9	1.527	2.421	13.4	20.7	10 8	22 53.59	- 0 38.3	1.502	2.414	12.3	21.6
10 18	22 47.41	- 8 46.4	1.625	2.435	16.8	21.0	10 18	22 49.49	- 1 47.9	1.561	2.396	16.2	21.8
114169	2002 <i>VT</i> ₇₄		9 10.3 289°17'	0°4'/9.9	18		513714	2012 <i>SC</i> ₁₁		9 10.3 324°09'			

EPHEMERIDES

9 10.3

9 10.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
131348	2001 <i>HB</i> ₅₉		9 10.3 43°22	9°7/20.6	17		115732	2003 <i>UL</i> ₁₈₅		9 10.3 63°88	0°5/10.8	18	
8 9	23 38.48	+21 9.7	1.401	2.187	21.1	18.5	8 9	23 37.28	- 1 24.4	1.767	2.643	13.6	19.7
8 19	23 33.24	+21 39.9	1.365	2.221	17.8	18.3	8 19	23 32.18	- 1 51.1	1.701	2.645	9.9	19.5
8 29	23 25.80	+21 34.7	1.345	2.255	14.4	18.2	8 29	23 25.21	- 2 30.5	1.659	2.647	5.8	19.3
9 8	23 17.17	+20 54.1	1.345	2.290	11.4	18.1	9 8	23 17.10	- 3 17.9	1.643	2.649	1.3	19.0
9 18	23 8.56	+19 42.7	1.368	2.326	9.8	18.2	9 18	23 8.77	- 4 7.6	1.653	2.651	3.3	19.1
9 28	23 1.19	+18 9.6	1.414	2.361	10.3	18.3	9 28	23 1.21	- 4 53.5	1.691	2.653	7.6	19.4
10 8	22 55.98	+16 26.9	1.484	2.397	12.4	18.5	10 8	22 55.29	- 5 30.2	1.754	2.655	11.5	19.6
10 18	22 53.41	+14 45.5	1.576	2.433	14.9	18.8	10 18	22 51.57	- 5 54.2	1.839	2.657	14.8	19.9
428478	2007 <i>VZ</i> ₆₄		9 10.3 330°00	2°9/ 8.5	17		326144	2012 <i>BO</i> ₅₃		9 10.3 138°22	0°7/10.9	17	
8 9	23 36.37	- 8 18.7	1.035	1.954	17.3	20.6	8 9	23 42.81	- 1 33.2	1.577	2.450	15.0	21.1
8 19	23 32.69	- 8 55.2	0.970	1.937	12.6	20.3	8 19	23 36.29	- 1 47.5	1.517	2.459	11.0	20.8
8 29	23 26.02	- 9 43.2	0.925	1.921	7.1	20.0	8 29	23 27.58	- 2 14.9	1.480	2.467	6.4	20.6
9 8	23 17.30	-10 33.9	0.901	1.906	2.9	19.7	9 8	23 17.56	- 2 50.7	1.468	2.474	1.6	20.3
9 18	23 7.97	-11 17.3	0.899	1.892	6.7	19.9	9 18	23 7.34	- 3 29.2	1.484	2.481	3.6	20.5
9 28	22 59.75	-11 43.8	0.919	1.880	12.5	20.1	9 28	22 58.14	- 4 4.3	1.526	2.488	8.3	20.8
10 8	22 54.09	-11 47.8	0.959	1.868	17.8	20.4	10 8	22 50.93	- 4 30.6	1.593	2.494	12.5	21.0
10 18	22 51.84	-11 27.9	1.015	1.858	22.3	20.6	10 18	22 46.30	- 4 44.8	1.682	2.499	16.0	21.3
304427	2006 <i>TX</i> ₈₀		9 10.3 154°02	2°9/13.4	18		358464	2007 <i>HK</i> ₆₀		9 10.3 0°02	2°4/13.3	18	
8 9	23 36.09	+ 5 53.2	2.093	2.935	13.1	20.9	8 9	23 31.97	+ 6 36.7	2.035	2.882	13.2	20.0
8 19	23 31.11	+ 5 42.5	2.019	2.937	10.1	20.7	8 19	23 28.20	+ 5 46.5	1.960	2.882	10.1	19.8
8 29	23 24.53	+ 5 16.0	1.968	2.938	6.7	20.5	8 29	23 22.90	+ 4 37.3	1.908	2.881	6.6	19.6
9 8	23 16.95	+ 4 35.9	1.943	2.939	3.6	20.3	9 8	23 16.66	+ 3 13.1	1.882	2.881	3.2	19.4
9 18	23 9.15	+ 3 46.2	1.946	2.940	3.4	20.3	9 18	23 10.20	+ 1 39.7	1.884	2.881	3.1	19.4
9 28	23 1.97	+ 2 52.3	1.976	2.942	6.4	20.5	9 28	23 4.34	+ 0 4.7	1.915	2.882	6.4	19.6
10 8	22 56.16	+ 2 0.1	2.033	2.942	9.7	20.7	10 8	22 59.78	- 1 24.4	1.971	2.883	9.9	19.8
10 18	22 52.24	+ 1 14.5	2.114	2.943	12.7	20.9	10 18	22 57.02	- 2 41.7	2.052	2.883	13.0	20.0
494316	2016 <i>SL</i> ₃₈		9 10.3 5°38	0°1/10.4	18		192632	1999 <i>NL</i> ₅₃		9 10.3 21°54	11°4/20.8	18	
8 9	23 30.14	- 1 11.0	1.032	1.945	17.9	19.9	8 9	23 33.67	+20 24.2	1.142	1.958	23.2	18.1
8 19	23 27.86	- 1 54.4	0.983	1.945	13.0	19.7	8 19	23 30.35	+21 21.2	1.096	1.971	19.9	18.0
8 29	23 23.05	- 2 58.7	0.952	1.946	7.5	19.4	8 29	23 24.45	+21 39.0	1.065	1.986	16.4	17.8
9 8	23 16.69	- 4 15.7	0.942	1.949	1.5	19.0	9 8	23 16.98	+21 15.2	1.052	2.002	13.2	17.7
9 18	23 10.05	- 5 34.5	0.956	1.954	4.6	19.3	9 18	23 9.25	+20 12.6	1.059	2.020	11.5	17.7
9 28	23 4.55	- 6 43.7	0.991	1.961	10.3	19.6	9 28	23 2.72	+18 40.6	1.087	2.039	12.0	17.8
10 8	23 1.30	- 7 34.4	1.047	1.970	15.3	19.9	10 8	22 58.54	+16 53.4	1.136	2.060	14.3	18.0
10 18	23 0.91	- 8 2.2	1.121	1.981	19.5	20.2	10 18	22 57.32	+15 4.8	1.205	2.082	17.2	18.2
474469	2003 <i>SW</i> ₁₉₇		9 10.3 342°70	4°2/ 7.6	18		79414	1997 <i>JU</i> ₁₅		9 10.4 117°24	2°1/ 8.5	18	
8 9	23 38.61	-13 11.0	1.281	2.193	15.2	20.1	8 9	23 40.34	- 7 24.1	1.658	2.548	13.6	19.8
8 19	23 33.80	-13 34.5	1.219	2.181	11.0	19.8	8 19	23 34.36	- 8 17.7	1.608	2.561	9.7	19.6
8 29	23 26.39	-14 0.0	1.178	2.170	6.7	19.5	8 29	23 26.41	- 9 19.0	1.582	2.574	5.4	19.4
9 8	23 17.34	-14 20.0	1.160	2.161	4.2	19.4	9 8	23 17.33	-10 20.8	1.581	2.586	2.1	19.2
9 18	23 7.92	-14 27.4	1.166	2.152	7.0	19.5	9 18	23 8.15	-11 15.9	1.608	2.598	4.9	19.4
9 28	22 59.58	-14 17.0	1.196	2.145	11.6	19.8	9 28	22 59.96	-11 58.2	1.662	2.610	9.0	19.7
10 8	22 53.50	-13 47.2	1.248	2.138	15.9	20.0	10 8	22 53.62	-12 24.1	1.740	2.621	12.7	19.9
10 18	22 50.37	-12 58.8	1.317	2.133	19.6	20.2	10 18	22 49.66	-12 32.3	1.839	2.631	15.8	20.2
155499	1999 <i>EU</i> ₆		9 10.3 241°23	0°4/10.7	18		44525	1998 <i>YE</i> ₄		9 10.4 292°91	5°1/16.2	18	
8 9	23 38.24	- 1 14.4	1.824	2.697	13.4	21.7	8 9	23 34.56	+13 3.6	2.362	3.164	13.1	18.0
8 19	23 32.96	- 1 48.3	1.745	2.686	9.8	21.5	8 19	23 29.99	+13 14.0	2.274	3.154	10.7	17.9
8 29	23 25.72	- 2 35.7	1.688	2.675	5.7	21.2	8 29	23 23.92	+13 6.5	2.207	3.145	8.1	17.7
9 8	23 17.21	- 3 32.1	1.658	2.664	1.3	20.9	9 8	23 16.88	+12 41.3	2.165	3.136	5.9	17.5
9 18	23 8.32	- 4 31.5	1.655	2.652	3.4	20.9	9 18	23 9.53	+12 0.5	2.150	3.127	5.1	17.5
9 28	23 0.10	- 5 27.2	1.680	2.640	7.8	21.3	9 28	23 2.66	+11 8.2	2.162	3.119	6.6	17.5
10 8	22 53.46	- 6 13.2	1.730	2.627	11.8	21.5	10 8	22 56.97	+10 10.2	2.201	3.110	9.1	17.7
10 18	22 49.04	- 6 45.6	1.802	2.614	15.3	21.7	10 18	22 53.00	+ 9 12.2	2.264	3.101	11.7	17.8
212203	2005 <i>GU</i> ₁₄₅		9 10.3 282°34	4°5/15.0	18		200057	2008 <i>PT</i> ₁₆		9 10.4 340°80	0°7/11.8	18	
8 9	23 34.67	+10 34.6	1.884	2.713	14.8	20.6	8 9	23 28.01	+ 1 57.2	3.805	4.654	7.6	19.4
8 19	23 30.42	+10 16.5	1.792	2.696	11.9	20.3	8 19	23 24.77	+ 1 8.5	3.723	4.650	5.6	19.2
8 29	23 24.31	+ 9 35.6	1.721	2.679	8.5	20.1	8 29	23 20.75	+ 0 11.6	3.666	4.647	3.4	19.1
9 8	23 16.94	+ 8 33.5	1.675	2.662	5.4	19.9	9 8	23 16.25	- 0 51.1	3.639	4.643	1.2	18.9
9 18	23 9.15	+ 7 14.3	1.655	2.646	4.7	19.8	9 18	23 11.63	- 1 56.5	3.642	4.640	1.7	19.0
9 28	23 1.90	+ 5 44.9	1.663	2.629	7.3	19.9	9 28	23 7.31	- 3 1.3	3.676	4.637	3.9	19.1
10 8	22 56.11	+ 4 14.2	1.696	2.612	10.9	20.1	10 8	23 3.63	- 4 1.9	3.738	4.634	6.1	19.3
10 18	22 52.43	+ 2 50.0	1.752	2.595	14.3	20.3	10 18	23 0.90	- 4 55.9	3.826	4.631	8.0	19.4
474132	1995 <i>SA</i> ₄₅		9 10.3 333°50	1°9/11.9	18		428557	2008 <i>CS</i> ₁₀₉		9 10.4 264°39	2°6/12.3	18	
8 9	23 31.34	+ 2 20.1	1.248	2.140	17.0	20.5	8 9	23 40.76	+ 2 43.5	1.577	2.440	15.6	21.7
8 19	23 28.67	+ 1 52.5	1.170	2.119	12.8	20.2	8 19	23 35.16	+ 2 44.1	1.492	2.424	11.9	21.4
8 29	23 23.58	+ 1 1.5	1.112	2.099	8.0	19.9	8 29	23 27.18	+ 2 27.7	1.428	2.407	7.6	21.1
9 8	23 16.83	- 0 8.6	1.076	2.080	3.0	19.6	9 8	23 17.55	+ 1 56.3	1.388	2.390	3.4	20.8
9 18	23 9.50	- 1 30.1	1.063	2.063	4.0	19.6	9 18	23 7.34	+ 1 14.6	1.376	2.373	3.9	20.8
9 28	23 2.96	- 2 52.2	1.074	2.046	9.4	19.8	9 28	22 57.83	+ 0 29.1	1.389	2.355	8.5	21.1
10 8	22 58.42	- 4 4.2	1.107	2.031	14.5	20.1	10 8	22 50.17	- 0 13.0	1.427	2.337	13.0	21.3
10 18	22 56.68	- 4 58.3	1.159	2.018	19.0	20.3	10 18	22 45.16	- 0 45.7	1.486	2.319	17.0	21.5
364107	2005 <i>YS</i> ₂₇₈		9 10.3 152°14	5°5/ 2.0	18		115077	2003					

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
445382	2010 <i>RV</i> ₇₄		9 10.4 349°40	11°8/24.7	17		345516	2006 <i>KT</i> ₄₆		9 10.4 100°34	1°2/9.2	18	
8 9	23 21.08	+32 26.3	0.812	1.609	31.8	20.4	8 9	23 37.34	- 5 28.6	1.809	2.695	12.8	21.4
8 19	23 22.04	+31 4.5	0.741	1.601	28.4	20.1	8 19	23 32.16	- 6 16.0	1.752	2.702	9.1	21.2
8 29	23 20.11	+28 14.7	0.679	1.594	23.8	19.8	8 29	23 25.18	- 7 12.5	1.718	2.710	5.1	21.0
9 8	23 16.21	+23 45.1	0.632	1.588	18.2	19.5	9 8	23 17.16	- 8 12.0	1.711	2.717	1.3	20.7
9 18	23 11.78	+17 41.2	0.605	1.584	13.1	19.2	9 18	23 8.98	- 9 8.2	1.731	2.724	4.1	20.9
9 28	23 8.59	+10 36.9	0.602	1.582	12.1	19.1	9 28	23 1.61	- 9 54.9	1.779	2.732	8.1	21.2
10 8	23 8.08	+ 3 28.9	0.624	1.582	16.5	19.4	10 8	22 55.85	-10 27.9	1.851	2.739	11.7	21.4
10 18	23 10.98	- 2 49.7	0.671	1.583	22.4	19.7	10 18	22 52.23	-10 45.0	1.945	2.745	14.8	21.7
523551	2017 <i>VJ</i> ₃₁		9 10.4 284°67	0°4/10.7	17		298156	2002 <i>TW</i> ₂₄		9 10.4 291°54	0°8/9.7	18	
8 9	23 36.84	- 0 0.9	1.349	2.236	16.3	21.2	8 9	23 37.41	- 4 50.0	1.855	2.738	12.7	20.9
8 19	23 32.43	- 0 53.1	1.281	2.230	12.0	20.9	8 19	23 32.48	- 5 21.1	1.763	2.712	9.2	20.6
8 29	23 25.62	- 2 5.3	1.234	2.224	7.0	20.6	8 29	23 25.55	- 6 2.6	1.696	2.687	5.2	20.3
9 8	23 17.25	- 3 30.9	1.211	2.217	1.6	20.2	9 8	23 17.27	- 6 49.8	1.654	2.661	1.1	20.0
9 18	23 8.47	- 5 0.7	1.213	2.211	4.1	20.4	9 18	23 8.48	- 7 37.0	1.640	2.635	3.9	20.1
9 28	23 0.60	- 6 23.9	1.241	2.205	9.5	20.7	9 28	23 0.24	- 8 17.9	1.653	2.608	8.3	20.3
10 8	22 54.77	- 7 31.8	1.292	2.199	14.2	21.0	10 8	22 53.50	- 8 47.4	1.690	2.582	12.4	20.5
10 18	22 51.69	- 8 19.0	1.362	2.193	18.3	21.2	10 18	22 48.96	- 9 2.4	1.749	2.556	15.9	20.7
287747	2003 <i>SV</i> ₂₆		9 10.4 51°53	4°9/14.1	17		194038	2001 <i>SV</i> ₈₇		9 10.4 348°05	0°5/11.0	18	
8 9	23 38.91	+ 7 57.5	1.151	2.018	19.9	20.5	8 9	23 31.59	+ 0 16.4	2.147	3.019	11.7	19.9
8 19	23 33.94	+ 7 56.6	1.106	2.034	15.5	20.3	8 19	23 27.90	- 0 33.1	2.074	3.014	8.6	19.7
8 29	23 26.41	+ 7 27.7	1.079	2.051	10.6	20.1	8 29	23 22.75	- 1 35.7	2.024	3.011	5.0	19.4
9 8	23 17.38	+ 6 34.2	1.073	2.068	6.1	19.9	9 8	23 16.70	- 2 46.9	2.002	3.007	1.3	19.2
9 18	23 8.22	+ 5 23.4	1.091	2.086	5.4	19.9	9 18	23 10.44	- 4 1.2	2.007	3.005	2.8	19.3
9 28	23 0.38	+ 4 6.0	1.133	2.104	9.2	20.2	9 28	23 4.73	- 5 12.1	2.040	3.002	6.5	19.5
10 8	22 54.94	+ 2 52.9	1.198	2.123	13.6	20.5	10 8	23 0.25	- 6 14.1	2.099	3.000	9.9	19.7
10 18	22 52.49	+ 1 52.4	1.282	2.141	17.5	20.8	10 18	22 57.46	- 7 3.2	2.182	2.998	12.8	19.9
149768	2004 <i>QP</i> ₂		9 10.4 18°01	0°3/10.0	18		100511	1997 <i>AY</i> ₁₈		9 10.4 5°15	3°4/6.7	18	
8 9	23 35.88	- 3 55.4	1.939	2.820	12.3	20.2	8 9	23 33.23	-10 2.6	1.766	2.668	12.2	19.0
8 19	23 31.04	- 4 22.8	1.874	2.822	8.9	20.0	8 19	23 29.31	-11 27.1	1.709	2.668	8.7	18.8
8 29	23 24.53	- 4 59.5	1.834	2.824	5.0	19.8	8 29	23 23.63	-12 58.1	1.677	2.669	5.1	18.6
9 8	23 17.01	- 5 41.1	1.820	2.826	0.9	19.5	9 8	23 16.88	-14 27.3	1.670	2.670	3.4	18.5
9 18	23 9.31	- 6 22.3	1.833	2.829	3.3	19.7	9 18	23 9.92	-15 46.6	1.691	2.671	6.0	18.6
9 28	23 2.31	- 6 58.1	1.874	2.832	7.3	20.0	9 28	23 3.70	-16 49.1	1.738	2.673	9.6	18.9
10 8	22 56.79	- 7 24.1	1.939	2.835	10.9	20.2	10 8	22 59.03	-17 30.7	1.808	2.675	13.0	19.1
10 18	22 53.24	- 7 37.8	2.028	2.838	13.9	20.4	10 18	22 56.42	-17 50.3	1.899	2.678	15.8	19.3
455989	2005 <i>WL</i> ₁₅₂		9 10.4 9°50	5°0/14.4	18		514368	2016 <i>QM</i> ₈₇		9 10.4 338°79	0°3/10.6	18	
8 9	23 37.41	+ 8 21.6	1.435	2.288	17.4	20.6	8 9	23 36.68	- 2 28.2	1.500	2.388	14.8	20.7
8 19	23 32.71	+ 8 33.6	1.369	2.288	13.8	20.4	8 19	23 32.13	- 2 44.8	1.431	2.381	10.9	20.4
8 29	23 25.72	+ 8 22.2	1.323	2.289	9.7	20.1	8 29	23 25.38	- 3 14.6	1.384	2.374	6.3	20.2
9 8	23 17.28	+ 7 48.7	1.299	2.291	6.0	19.9	9 8	23 17.25	- 3 52.8	1.361	2.367	1.4	19.8
9 18	23 8.48	+ 6 57.5	1.300	2.292	5.3	19.9	9 18	23 8.75	- 4 33.6	1.364	2.362	3.8	20.0
9 28	23 0.60	+ 5 56.2	1.327	2.295	8.5	20.1	9 28	23 1.10	- 5 10.1	1.392	2.356	8.6	20.3
10 8	22 54.69	+ 4 53.8	1.376	2.297	12.5	20.3	10 8	22 55.30	- 5 36.5	1.444	2.352	13.0	20.5
10 18	22 51.42	+ 3 58.3	1.447	2.300	16.2	20.6	10 18	22 52.02	- 5 49.1	1.516	2.348	16.7	20.7
439340	2012 <i>XE</i> ₆		9 10.4 336°24	8°0/4.1	18		485869	2012 <i>FS</i> ₂₅		9 10.4 206°48	0°0/10.4	17	
8 9	23 37.36	-20 26.4	1.290	2.206	14.8	20.1	8 9	23 34.16	- 2 22.6	2.613	3.480	10.0	22.5
8 19	23 32.99	-21 34.6	1.233	2.191	11.4	19.9	8 19	23 29.51	- 3 0.3	2.537	3.477	7.2	22.4
8 29	23 26.00	-22 38.4	1.197	2.177	8.6	19.7	8 29	23 23.58	- 3 46.7	2.486	3.474	4.1	22.2
9 8	23 17.34	-23 26.7	1.184	2.165	8.2	19.6	9 8	23 16.87	- 4 38.1	2.464	3.470	0.8	21.9
9 18	23 8.30	-23 50.5	1.193	2.153	10.7	19.7	9 18	23 9.98	- 5 30.4	2.470	3.467	2.6	22.0
9 28	23 0.36	-23 44.5	1.225	2.142	14.4	19.9	9 28	23 3.56	- 6 19.0	2.506	3.463	5.8	22.3
10 8	22 54.70	-23 8.5	1.277	2.132	18.0	20.1	10 8	22 58.21	- 7 0.2	2.569	3.459	8.8	22.4
10 18	22 52.03	-22 6.1	1.345	2.124	21.2	20.3	10 18	22 54.35	- 7 31.2	2.656	3.454	11.3	22.6
211028	2002 <i>AS</i> ₁₁₇		9 10.4 270°51	1°6/9.1	18		86079	1999 <i>RK</i> ₇₀		9 10.4 32°31	2°0/12.7	18	
8 9	23 39.93	- 5 43.8	1.414	2.308	15.2	20.3	8 9	23 33.27	+ 4 35.2	1.912	2.770	13.5	19.5
8 19	23 34.74	- 6 28.7	1.337	2.292	11.0	20.0	8 19	23 29.21	+ 3 53.9	1.846	2.775	10.2	19.3
8 29	23 27.01	- 7 26.6	1.282	2.275	6.2	19.7	8 29	23 23.52	+ 2 55.2	1.802	2.780	6.5	19.1
9 8	23 17.56	- 8 30.3	1.252	2.258	1.7	19.4	9 8	23 16.86	+ 1 43.2	1.784	2.786	2.8	18.9
9 18	23 7.54	- 9 31.4	1.247	2.241	5.2	19.6	9 18	23 10.02	+ 0 23.9	1.794	2.792	3.0	18.9
9 28	22 58.35	-10 21.3	1.268	2.223	10.3	19.8	9 28	23 3.85	- 0 55.5	1.831	2.798	6.7	19.2
10 8	22 51.21	-10 53.7	1.312	2.206	15.1	20.0	10 8	22 59.09	- 2 8.0	1.894	2.805	10.3	19.4
10 18	22 46.91	-11 5.8	1.374	2.188	19.1	20.3	10 18	22 56.25	- 3 8.5	1.981	2.811	13.4	19.6
13173	1996 <i>AJ</i> ₂		9 10.4 199°68	1°6/8.8	18	R	317220	2002 <i>CO</i> ₈₈		9 10.4 287°91	0°8/10.9	18	
8 9	23 39.08	- 6 14.1	1.825	2.710	12.8	19.0	8 9	23 41.60	- 2 7.4	1.317	2.204	16.6	20.7
8 19	23 33.51	- 7 7.5	1.757	2.707	9.2	18.8	8 19	23 36.08	- 2 9.1	1.242	2.190	12.3	20.4
8 29	23 26.01	- 8 10.2	1.712	2.704	5.1	18.6	8 29	23 27.85	- 2 25.1	1.188	2.177	7.3	20.1
9 8	23 17.33	- 9 15.8	1.695	2.700	1.7	18.3	9 8	23 17.76	- 2 51.3	1.157	2.164	1.8	19.7
9 18	23 8.37	-10 17.5	1.705	2.696	4.4	18.5	9 18	23 7.09	- 3 21.9	1.152	2.150	4.2	19.8
9 28	23 0.17	-11 8.8	1.743	2.692	8.5	18.7	9 28	22 57.33	- 3 49.9	1.172	2.137	9.7	20.1
10 8	22 53.60	-11 45.0	1.806	2.686	12.3	19.0	10 8	22 49.81	- 4 8.7	1.214	2.124	14.8	20.4
10 18	22 49.26	-12 4.0	1.890	2.681	15.5	19.2	10 18	22 45.34	- 4 14.2	1.276	2.112	19.0	20.6
352915	2008 <i>YA</i> ₁₄₂		9 10.4 224°24	3°7/14.0	18		299218	2005 <i>JR</i> ₇₄					

EPHEMERIDES

9 10.4

9 10.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
434682	2006 <i>BN</i> ₂₂		9 10.4 146°95	0°7/ 9.7 17			433943	1995 <i>SR</i> ₃₉		9 10.4 27°26	0°9/ 9.8 18		
8 9	23 38.05	- 4 2.6	1.840	2.721	12.9	21.9	8 9	23 41.86	- 6 44.5	1.447	2.339	15.0	20.4
8 19	23 32.69	- 4 46.6	1.778	2.725	9.3	21.6	8 19	23 35.77	- 6 44.7	1.391	2.344	10.8	20.1
8 29	23 25.51	- 5 41.0	1.739	2.730	5.2	21.4	8 29	23 27.39	- 6 52.5	1.357	2.349	6.1	19.9
9 8	23 17.26	- 6 40.1	1.727	2.734	1.0	21.1	9 8	23 17.64	- 7 2.9	1.348	2.355	1.3	19.6
9 18	23 8.81	- 7 37.7	1.743	2.738	3.7	21.3	9 18	23 7.71	- 7 11.0	1.366	2.361	4.3	19.8
9 28	23 1.13	- 8 27.5	1.786	2.741	7.9	21.6	9 28	22 58.89	- 7 12.0	1.409	2.368	9.1	20.1
10 8	22 55.06	- 9 4.9	1.855	2.744	11.6	21.8	10 8	22 52.18	- 7 2.8	1.476	2.376	13.3	20.4
10 18	22 51.13	- 9 27.3	1.945	2.748	14.7	22.1	10 18	22 48.17	- 6 41.9	1.563	2.383	16.9	20.7
447732	2007 <i>EC</i> ₂₁₉		9 10.4 134°59	2°2/13.4 18			191104	2002 <i>ET</i> ₄₄		9 10.4 278°50	1°0/12.4 16		
8 9	23 32.94	+ 6 43.7	2.392	3.229	11.8	22.0	8 9	23 28.53	+ 2 14.3	4.350	5.192	6.8	20.2
8 19	23 28.72	+ 5 53.7	2.317	3.233	9.0	21.8	8 19	23 25.10	+ 1 52.8	4.262	5.184	5.1	20.0
8 29	23 23.16	+ 4 47.4	2.266	3.236	5.9	21.6	8 29	23 20.95	+ 1 24.7	4.200	5.176	3.2	19.9
9 8	23 16.79	+ 3 28.4	2.242	3.240	2.9	21.4	9 8	23 16.37	+ 0 51.5	4.166	5.167	1.4	19.8
9 18	23 10.26	+ 2 1.6	2.247	3.243	2.8	21.4	9 18	23 11.68	+ 0 15.2	4.162	5.159	1.6	19.8
9 28	23 4.25	+ 0 33.3	2.281	3.246	5.7	21.6	9 28	23 7.23	- 0 21.8	4.188	5.151	3.4	19.9
10 8	22 59.39	- 0 50.2	2.343	3.250	8.7	21.8	10 8	23 3.35	- 0 57.0	4.243	5.142	5.3	20.0
10 18	22 56.11	- 2 4.0	2.430	3.253	11.5	22.0	10 18	23 0.31	- 1 28.5	4.324	5.134	7.1	20.2
224022	2005 <i>KZ</i> ₁₂		9 10.4 43°79	2°4/ 9.1 17			3846	Hazel		9 10.4 204°24	3°3/14.4 18		
8 9	23 45.25	- 9 52.5	1.113	2.019	17.5	19.1	8 9	23 34.86	+ 8 36.6	2.356	3.181	12.4	17.2
8 19	23 38.36	- 9 54.8	1.080	2.040	12.5	18.9	8 19	23 30.17	+ 8 17.3	2.274	3.179	9.7	17.0
8 29	23 28.80	- 10 2.0	1.067	2.061	7.0	18.6	8 29	23 24.03	+ 7 41.4	2.216	3.176	6.7	16.8
9 8	23 17.86	- 10 7.4	1.078	2.083	2.5	18.4	9 8	23 16.99	+ 6 50.8	2.183	3.173	4.0	16.7
9 18	23 7.09	- 10 5.2	1.113	2.106	5.7	18.7	9 18	23 9.71	+ 5 49.4	2.178	3.170	3.5	16.6
9 28	22 58.00	- 9 51.4	1.172	2.130	10.7	19.1	9 28	23 2.95	+ 4 42.2	2.203	3.167	5.9	16.8
10 8	22 51.64	- 9 24.3	1.253	2.154	15.1	19.4	10 8	22 57.39	+ 3 35.3	2.254	3.163	8.9	17.0
10 18	22 48.44	- 8 44.4	1.353	2.178	18.7	19.7	10 18	22 53.50	+ 2 33.9	2.330	3.159	11.7	17.1
521698	2015 <i>RO</i> ₂₆₃		9 10.4 2°44	4°3/ 5.6 16			507838	2014 <i>FE</i> ₁₄		9 10.4 217°49	6°2/ 2.9 18		
8 9	23 34.41	- 14 6.7	1.926	2.828	11.4	20.9	8 9	23 39.95	- 22 43.2	2.324	3.211	10.3	22.7
8 19	23 30.05	- 15 20.8	1.871	2.828	8.2	20.7	8 19	23 33.93	- 24 1.2	2.262	3.201	8.0	22.6
8 29	23 24.01	- 16 36.9	1.840	2.828	5.3	20.5	8 29	23 26.20	- 25 14.5	2.226	3.191	6.4	22.4
9 8	23 16.97	- 17 47.4	1.836	2.828	4.4	20.5	9 8	23 17.41	- 26 16.3	2.218	3.180	6.4	22.4
9 18	23 9.73	- 18 45.6	1.858	2.829	6.5	20.6	9 18	23 8.37	- 27 0.5	2.237	3.168	8.1	22.5
9 28	23 3.21	- 19 26.2	1.907	2.829	9.7	20.8	9 28	22 59.98	- 27 23.5	2.282	3.156	10.5	22.7
10 8	22 58.18	- 19 46.6	1.979	2.831	12.7	21.0	10 8	22 53.02	- 27 24.6	2.350	3.143	12.9	22.8
10 18	22 55.13	- 19 46.9	2.072	2.832	15.3	21.2	10 18	22 48.04	- 27 5.2	2.438	3.129	14.9	22.9
93258	2000 <i>SX</i> ₁₆₅		9 10.4 276°28	5°0/14.7 18			225036	2007 <i>FJ</i> ₄₂		9 10.4 259°44	0°7/ 9.8 18		
8 9	23 38.17	+ 9 24.1	1.745	2.578	15.6	19.7	8 9	23 40.17	- 4 35.1	1.748	2.628	13.5	22.1
8 19	23 33.12	+ 9 38.3	1.659	2.566	12.5	19.5	8 19	23 34.53	- 5 2.9	1.665	2.612	9.8	21.8
8 29	23 25.96	+ 9 31.9	1.594	2.553	9.0	19.3	8 29	23 26.76	- 5 41.3	1.605	2.595	5.6	21.5
9 8	23 17.38	+ 9 5.3	1.553	2.540	5.9	19.0	9 8	23 17.55	- 6 25.4	1.571	2.578	1.1	21.2
9 18	23 8.32	+ 8 21.3	1.538	2.527	5.3	19.0	9 18	23 7.89	- 7 9.3	1.565	2.560	4.0	21.4
9 28	22 59.89	+ 7 25.8	1.550	2.514	8.0	19.1	9 28	22 58.89	- 7 46.7	1.586	2.542	8.5	21.6
10 8	22 53.11	+ 6 26.4	1.586	2.500	11.6	19.3	10 8	22 51.58	- 8 12.5	1.632	2.524	12.7	21.8
10 18	22 48.68	+ 5 30.4	1.645	2.487	15.1	19.5	10 18	22 46.66	- 8 23.8	1.699	2.505	16.3	22.0
284075	2005 <i>GB</i> ₁₆		9 10.4 254°01	1°5/11.4 18			476017	2007 <i>RO</i> ₁₅₇		9 10.4 355°50	5°9/ 6.8 18		
8 9	23 45.69	- 1 49.6	1.847	2.708	13.7	20.4	8 9	23 44.48	- 18 58.7	1.442	2.343	14.5	20.2
8 19	23 38.30	- 1 17.2	1.770	2.704	10.2	20.2	8 19	23 37.76	- 19 14.9	1.387	2.340	10.8	19.9
8 29	23 28.78	- 0 53.3	1.717	2.700	6.2	19.9	8 29	23 28.55	- 19 25.4	1.354	2.338	7.4	19.7
9 8	23 17.92	- 0 36.4	1.692	2.696	2.2	19.6	9 8	23 17.88	- 19 23.0	1.346	2.336	6.0	19.7
9 18	23 6.72	- 0 24.2	1.695	2.692	3.4	19.7	9 18	23 7.05	- 19 2.3	1.363	2.335	8.1	19.8
9 28	22 56.33	- 0 13.7	1.727	2.688	7.6	20.0	9 28	22 57.47	- 18 21.3	1.405	2.335	11.8	20.0
10 8	22 47.72	- 0 1.5	1.786	2.684	11.5	20.2	10 8	22 50.20	- 17 21.0	1.469	2.335	15.5	20.2
10 18	22 41.56	+ 0 15.0	1.867	2.680	14.8	20.4	10 18	22 45.85	- 16 4.8	1.553	2.336	18.6	20.5
113384	2002 <i>SW</i> ₁₄		9 10.4 63°33	8°7/19.7 18			447371	2006 <i>AM</i> ₄₈		9 10.4 302°87	7°4/15.9 17		
8 9	23 38.44	+ 20 22.9	1.768	2.538	17.9	18.5	8 9	23 40.71	+ 14 44.7	2.094	2.882	14.9	21.4
8 19	23 33.10	+ 20 58.1	1.710	2.556	15.3	18.3	8 19	23 34.99	+ 15 43.7	1.980	2.847	12.6	21.2
8 29	23 25.80	+ 21 5.1	1.671	2.575	12.5	18.2	8 29	23 27.13	+ 16 25.6	1.887	2.812	10.1	21.0
9 8	23 17.32	+ 20 43.0	1.653	2.594	10.0	18.1	9 8	23 17.67	+ 16 47.6	1.819	2.776	8.0	20.8
9 18	23 8.65	+ 19 53.9	1.659	2.612	8.8	18.1	9 18	23 7.41	+ 16 48.6	1.777	2.740	7.4	20.7
9 28	23 0.86	+ 18 43.9	1.690	2.631	9.4	18.2	9 28	22 57.41	+ 16 30.6	1.761	2.704	8.9	20.7
10 8	22 54.85	+ 17 21.7	1.746	2.650	11.4	18.3	10 8	22 48.73	+ 15 58.4	1.771	2.668	11.6	20.8
10 18	22 51.17	+ 15 56.7	1.825	2.669	13.8	18.5	10 18	22 42.21	+ 15 18.7	1.804	2.632	14.6	20.9
516821	2010 <i>RZ</i> ₁₅₃		9 10.4 144°23	3°4/14.4 18			14747	2541 <i>P-L</i>		9 10.4 357°10	0°8/ 9.9 18		
8 9	23 34.49	+ 8 31.9	2.171	3.002	13.1	21.7	8 9	23 33.52	- 4 38.1	0.989	1.907	18.0	17.3
8 19	23 29.98	+ 8 12.8	2.095	3.003	10.2	21.6	8 19	23 30.54	- 4 57.1	0.935	1.901	13.1	17.0
8 29	23 23.94	+ 7 35.9	2.042	3.004	7.1	21.4	8 29	23 24.75	- 5 31.3	0.900	1.896	7.4	16.7
9 8	23 16.96	+ 6 43.6	2.014	3.005	4.2	21.2	9 8	23 17.18	- 6 13.6	0.886	1.893	1.4	16.3
9 18	23 9.76	+ 5 39.8	2.013	3.005	3.7	21.2	9 18	23 9.22	- 6 55.1	0.894	1.892	5.1	16.6
9 28	23 3.13	+ 4 30.4	2.041	3.006	6.2	21.3	9 28	23 2.47	- 7 26.4	0.924	1.893	11.0	16.9
10 8	22 57.79	+ 3 21.7	2.095	3.007	9.3	21.5	10 8	22 58.21	- 7 41.0	0.973	1.895	16.3	17.2
10 18	22 54.25	+ 2 19.4	2.173	3.007	12.2	21.7	10 18	22 57.12	- 7 35.8	1.040	1.900	20.6	17.5
395037	2009 <i>DT</i> ₈₀		9 10.4 224°62	1°3/ 9.0 18									

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
206510	2003 <i>UU</i> ₁₂₆		9 10.4 330°41	6°3/ 6.1 18			23924	Premt		9 10.4 73°37	0°1/10.5 18		
8 9	23 44.20	-20 8.4	1.570	2.467	13.8	19.5	8 9	23 41.13	-2 15.8	1.410	2.294	15.9	18.0
8 19	23 37.49	-20 35.3	1.511	2.461	10.4	19.3	8 19	23 35.14	-2 45.0	1.366	2.314	11.5	17.8
8 29	23 28.39	-20 56.1	1.474	2.454	7.3	19.1	8 29	23 26.96	-3 27.5	1.344	2.334	6.5	17.6
9 8	23 17.86	-21 3.5	1.462	2.448	6.3	19.1	9 8	23 17.58	-4 17.4	1.347	2.354	1.3	17.3
9 18	23 7.12	-20 51.8	1.477	2.442	8.4	19.2	9 18	23 8.17	-5 7.4	1.376	2.374	3.9	17.5
9 28	22 57.50	-20 18.4	1.516	2.437	11.8	19.4	9 28	22 59.96	-5 50.4	1.432	2.394	8.7	17.9
10 8	22 50.04	-19 24.4	1.578	2.432	15.2	19.6	10 8	22 53.86	-6 21.1	1.511	2.413	12.9	18.2
10 18	22 45.37	-18 12.7	1.660	2.427	18.2	19.8	10 18	22 50.39	-6 36.7	1.610	2.433	16.3	18.4
436527	2011 <i>FE</i> ₁₃₃		9 10.4 243°39	0°2/10.6 16			221814	2008 <i>DK</i> ₃₉		9 10.4 123°28	0°2/10.6 17		
8 9	23 39.81	-2 6.1	1.758	2.632	13.7	22.5	8 9	23 41.60	-2 11.7	1.705	2.579	14.1	21.4
8 19	23 34.23	-2 33.9	1.677	2.620	10.1	22.3	8 19	23 35.29	-2 38.8	1.650	2.592	10.2	21.2
8 29	23 26.56	-3 14.4	1.619	2.607	5.8	22.0	8 29	23 27.01	-3 17.7	1.617	2.605	5.9	21.0
9 8	23 17.53	-4 3.2	1.588	2.595	1.2	21.6	9 8	23 17.60	-4 3.3	1.611	2.617	1.2	20.7
9 18	23 8.07	-4 54.5	1.584	2.581	3.5	21.8	9 18	23 8.06	-4 49.9	1.632	2.629	3.5	20.9
9 28	22 59.30	-5 41.6	1.607	2.567	8.1	22.0	9 28	22 59.48	-5 31.2	1.681	2.640	7.9	21.2
10 8	22 52.20	-6 18.9	1.656	2.553	12.3	22.3	10 8	22 52.72	-6 2.4	1.755	2.651	11.8	21.5
10 18	22 47.46	-6 42.6	1.726	2.538	15.8	22.5	10 18	22 48.32	-6 20.6	1.851	2.661	15.0	21.7
395009	2009 <i>BW</i> ₁₅₁		9 10.4 351°10	3°4/13.5 18			510368	2011 <i>TP</i> ₄		9 10.4 28°55	3°0/ 7.1 18		
8 9	23 36.47	+ 6 6.2	1.738	2.589	14.9	20.8	8 9	23 33.21	-7 37.0	1.624	2.526	13.1	20.4
8 19	23 31.74	+ 5 58.7	1.666	2.588	11.5	20.6	8 19	23 29.41	-9 18.7	1.571	2.531	9.3	20.2
8 29	23 25.08	+ 5 32.3	1.616	2.587	7.7	20.4	8 29	23 23.75	-11 9.9	1.543	2.537	5.2	20.0
9 8	23 17.22	+ 4 49.4	1.590	2.587	4.2	20.1	9 8	23 16.97	-13 1.2	1.541	2.543	3.1	19.9
9 18	23 9.07	+ 3 54.6	1.591	2.586	3.9	20.1	9 18	23 10.00	-14 42.6	1.566	2.550	5.9	20.1
9 28	23 1.64	+ 2 54.7	1.618	2.586	7.3	20.3	9 28	23 3.85	-16 5.7	1.617	2.557	9.8	20.3
10 8	22 55.85	+ 1 56.8	1.671	2.585	11.1	20.6	10 8	22 59.35	-17 5.5	1.692	2.564	13.4	20.6
10 18	22 52.27	+ 1 7.0	1.746	2.585	14.5	20.8	10 18	22 57.02	-17 40.5	1.787	2.572	16.4	20.8
68926	2002 <i>ME</i> ₃		9 10.4 347°51	6°3/18.2 18			342914	2008 <i>YT</i> ₁₅₃		9 10.4 310°37	11°6/29.8 18		
8 9	23 30.45	+17 14.8	1.855	2.654	16.2	18.5	8 9	23 40.44	-31 2.0	1.505	2.399	14.4	19.8
8 19	23 27.39	+16 48.7	1.771	2.647	13.5	18.3	8 19	23 35.29	-32 41.4	1.447	2.375	12.5	19.6
8 29	23 22.61	+15 54.2	1.708	2.640	10.5	18.1	8 29	23 27.41	-34 7.3	1.411	2.351	11.6	19.5
9 8	23 16.74	+14 32.1	1.667	2.634	7.7	18.0	9 8	23 17.73	-35 7.5	1.397	2.327	12.3	19.5
9 18	23 10.57	+12 46.9	1.651	2.629	6.3	17.9	9 18	23 7.57	-35 33.0	1.405	2.304	14.4	19.6
9 28	23 5.02	+10 46.5	1.662	2.625	7.6	17.9	9 28	22 58.44	-35 19.6	1.433	2.280	17.0	19.7
10 8	23 0.90	+ 8 41.3	1.699	2.622	10.4	18.1	10 8	22 51.63	-34 29.3	1.479	2.258	19.7	19.8
10 18	22 58.78	+ 6 41.3	1.761	2.619	13.5	18.3	10 18	22 47.88	-33 7.4	1.540	2.236	22.2	20.0
390510	2014 <i>BM</i> ₃₃		9 10.4 92°50	0°9/11.2 18			476212	2007 <i>UX</i> ₉₇		9 10.4 18°19	4°8/ 7.1 16		
8 9	23 37.44	+ 0 13.8	1.800	2.670	13.6	21.2	8 9	23 37.02	-13 34.7	1.167	2.086	15.8	20.2
8 19	23 32.24	+ 0 19.7	1.741	2.681	10.0	21.0	8 19	23 32.57	-14 16.4	1.130	2.095	11.4	20.0
8 29	23 25.26	- 1 7.1	1.706	2.692	5.9	20.8	8 29	23 25.65	-14 59.3	1.113	2.106	6.9	19.8
9 8	23 17.24	- 2 3.5	1.697	2.703	1.7	20.5	9 8	23 17.35	-15 34.4	1.119	2.118	4.8	19.7
9 18	23 9.08	- 3 3.0	1.716	2.714	3.1	20.7	9 18	23 9.00	-15 54.1	1.149	2.132	7.6	19.9
9 28	23 1.73	- 3 59.0	1.762	2.724	7.3	20.9	9 28	23 1.98	-15 53.5	1.201	2.147	11.8	20.2
10 8	22 55.99	- 4 46.0	1.833	2.735	11.0	21.2	10 8	22 57.28	-15 31.5	1.274	2.163	15.8	20.5
10 18	22 52.39	- 5 20.2	1.927	2.746	14.2	21.4	10 18	22 55.42	-14 49.9	1.365	2.180	19.1	20.7
215427	2002 <i>JF</i> ₄₆		9 10.4 55°71	4°9/ 7.2 18			25284	1998 <i>WL</i> ₂		9 10.4 353°58	0°3/ 9.9 18		
8 9	23 43.20	-14 5.8	1.239	2.146	15.9	19.7	8 9	23 30.98	+ 0 35.7	1.921	2.797	12.6	17.7
8 19	23 36.96	-14 49.2	1.197	2.156	11.5	19.5	8 19	23 27.64	- 1 6.1	1.849	2.794	9.1	17.5
8 29	23 28.11	-15 33.2	1.176	2.166	7.1	19.3	8 29	23 22.71	- 3 5.3	1.802	2.791	5.2	17.2
9 8	23 17.80	-16 8.6	1.179	2.176	5.0	19.2	9 8	23 16.79	- 5 14.6	1.783	2.789	0.9	16.9
9 18	23 7.43	-16 28.0	1.206	2.187	7.7	19.4	9 18	23 10.63	- 7 25.0	1.792	2.788	3.5	17.1
9 28	22 58.48	-16 26.4	1.258	2.198	12.0	19.6	9 28	23 5.07	- 9 26.6	1.831	2.787	7.6	17.4
10 8	22 52.02	-16 3.5	1.330	2.209	16.0	19.9	10 8	23 0.85	-11 11.6	1.895	2.786	11.3	17.6
10 18	22 48.60	-15 21.1	1.422	2.220	19.3	20.2	10 18	22 58.49	-12 35.3	1.983	2.786	14.4	17.8
58956	1998 <i>QG</i> ₉₀		9 10.4 54°30	6°8/17.3 18			258802	2002 <i>LK</i> ₅₁		9 10.4 252°99	4°9/ 4.3 18		
8 9	23 39.24	+15 29.0	2.029	2.818	15.3	18.0	8 9	23 35.36	-18 13.6	2.281	3.178	10.1	20.1
8 19	23 33.46	+16 12.4	1.968	2.835	12.7	17.9	8 19	23 30.59	-19 25.1	2.224	3.174	7.5	19.9
8 29	23 25.94	+16 34.7	1.928	2.852	10.0	17.7	8 29	23 24.30	-20 35.1	2.192	3.171	5.4	19.8
9 8	23 17.38	+16 35.2	1.912	2.869	7.7	17.6	9 8	23 17.10	-21 37.0	2.187	3.168	5.1	19.7
9 18	23 8.64	+16 15.4	1.922	2.887	6.8	17.6	9 18	23 9.71	-22 25.4	2.210	3.164	6.8	19.8
9 28	23 0.65	+15 39.7	1.959	2.905	7.9	17.7	9 28	23 2.95	-22 56.1	2.259	3.161	9.4	20.0
10 8	22 54.20	+14 54.3	2.021	2.923	10.1	17.9	10 8	22 57.49	-23 7.5	2.332	3.157	11.9	20.2
10 18	22 49.84	+14 6.0	2.106	2.941	12.5	18.1	10 18	22 53.83	-23 0.0	2.426	3.154	14.1	20.3
251663	1994 <i>SP</i> ₁₁		9 10.4 309°99	3°5/ 7.3 18			362522	2010 <i>TT</i> ₁₁₂		9 10.4 57°17	0°8/11.2 15		
8 9	23 38.93	-13 48.5	1.972	2.865	11.6	19.6	8 9	23 35.78	- 0 20.3	2.015	2.884	12.4	21.7
8 19	23 33.34	-14 17.3	1.902	2.855	8.4	19.4	8 19	23 30.96	- 0 46.1	1.950	2.889	9.1	21.5
8 29	23 25.92	-14 46.9	1.857	2.846	5.1	19.1	8 29	23 24.53	- 1 23.7	1.910	2.895	5.4	21.3
9 8	23 17.39	-15 12.0	1.838	2.836	3.5	19.0	9 8	23 17.15	- 2 9.3	1.895	2.901	1.5	21.0
9 18	23 8.61	-15 27.5	1.847	2.827	5.6	19.1	9 18	23 9.60	- 2 58.0	1.909	2.907	2.9	21.1
9 28	23 0.55	-15 29.6	1.883	2.818	9.0	19.3	9 28	23 2.72	- 3 44.2	1.950	2.913	6.7	21.4
10 8	22 54.05	-15 16.6	1.943	2.809	12.3	19.5	10 8	22 57.26	- 4 23.0	2.017	2.919	10.2	21.6
10 18	22 49.67	-14 48.4	2.025	2.800	15.1	19.7	10 18	22 53.70	- 4 51.2	2.107	2.925	13.2	21.8
451145	2009 <i>QA</i> ₆₃		9 10.4 348°06	1°7/ 8.9 15			266661	2008 <i>UV</i> ₁₉₂		9 10.4 208°42	0°4		

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
95316	2002 <i>CB</i> ₁₀₅		9 10.4 77°74	0°9/ 9.5 18			478996	2012 <i>XF</i> ₁₃₂		9 10.4 312°95	2°0/12.1 16		
8 9	23 38.57	- 6 34.9	2.131	3.010	11.4	19.3	8 9	23 34.47	+ 2 36.5	1.462	2.339	15.8	22.0
8 19	23 32.85	- 6 51.2	2.071	3.018	8.2	19.2	8 19	23 30.89	+ 2 10.6	1.368	2.309	12.0	21.7
8 29	23 25.56	- 7 13.3	2.036	3.027	4.6	18.9	8 29	23 24.97	+ 1 23.4	1.296	2.280	7.6	21.4
9 8	23 17.36	- 7 37.2	2.029	3.035	1.1	18.7	9 8	23 17.37	+ 0 18.2	1.247	2.251	2.9	21.0
9 18	23 9.05	- 7 58.8	2.049	3.043	3.4	18.9	9 18	23 9.08	- 0 58.9	1.223	2.222	3.8	21.0
9 28	23 1.47	- 8 14.4	2.098	3.052	7.0	19.2	9 28	23 1.35	- 2 18.5	1.225	2.194	8.9	21.2
10 8	22 55.31	- 8 20.9	2.173	3.060	10.2	19.4	10 8	22 55.40	- 3 30.8	1.249	2.166	13.8	21.5
10 18	22 51.05	- 8 17.0	2.271	3.068	13.0	19.6	10 18	22 52.08	- 4 28.4	1.294	2.139	18.2	21.7
448081	2008 <i>HA</i> ₁₆		9 10.4 79°98	4°3/16.0 18			115508	2003 <i>UU</i> ₃₅		9 10.4 328°11	3°2/ 6.3 18		
8 9	23 33.49	+12 42.8	2.220	3.029	13.5	21.0	8 9	23 32.44	-10 29.4	2.098	2.996	10.8	19.3
8 19	23 29.24	+12 13.2	2.148	3.037	10.9	20.9	8 19	23 28.63	-11 58.1	2.032	2.990	7.7	19.1
8 29	23 23.55	+11 23.0	2.097	3.045	7.9	20.7	8 29	23 23.28	-13 32.8	1.992	2.983	4.6	18.9
9 8	23 16.98	+10 14.5	2.072	3.053	5.3	20.5	9 8	23 16.98	-15 6.1	1.980	2.978	3.3	18.8
9 18	23 10.25	+ 8 51.9	2.074	3.061	4.4	20.5	9 18	23 10.44	-16 30.9	1.995	2.972	5.6	18.9
9 28	23 4.11	+ 7 21.6	2.105	3.069	6.2	20.6	9 28	23 4.47	-17 40.6	2.038	2.966	8.8	19.1
10 8	22 59.23	+ 5 50.9	2.163	3.076	9.0	20.8	10 8	22 59.78	-18 31.4	2.105	2.961	11.8	19.3
10 18	22 56.07	+ 4 26.3	2.245	3.084	11.7	21.0	10 18	22 56.88	-19 1.7	2.193	2.956	14.4	19.5
520275	2014 <i>EX</i> ₁₉₉		9 10.4 333°44	0°9/11.1 16			5035	Swift		9 10.4 252°39	7°0/ 3.5 18		
8 9	23 34.57	- 0 30.1	1.343	2.235	16.0	21.6	8 9	23 41.68	-23 7.9	1.936	2.828	11.9	16.7
8 19	23 30.90	- 0 54.1	1.271	2.221	11.9	21.3	8 19	23 35.51	-24 13.6	1.873	2.814	9.3	16.5
8 29	23 24.88	- 1 35.7	1.219	2.208	7.1	21.0	8 29	23 27.28	-25 13.5	1.834	2.801	7.4	16.4
9 8	23 17.30	- 2 30.3	1.190	2.196	1.9	20.6	9 8	23 17.78	-25 59.5	1.821	2.787	7.3	16.4
9 18	23 9.24	- 3 30.5	1.186	2.185	3.9	20.7	9 18	23 7.98	-26 25.2	1.834	2.773	9.1	16.4
9 28	23 2.00	- 4 27.6	1.206	2.174	9.1	21.0	9 28	22 58.99	-26 26.8	1.872	2.758	11.8	16.6
10 8	22 56.73	- 5 13.7	1.249	2.165	14.0	21.3	10 8	22 51.75	-26 4.3	1.933	2.743	14.6	16.7
10 18	22 54.15	- 5 43.4	1.311	2.156	18.1	21.5	10 18	22 46.87	-25 20.0	2.012	2.728	17.0	16.9
472012	2013 <i>WC</i> ₁₀₅		9 10.4 165°85	7°2/ 2.5 18			375238	2008 <i>GW</i> ₁		9 10.4 150°32	1°5/11.8 17		
8 9	23 40.80	-24 30.7	2.048	2.938	11.4	21.5	8 9	23 40.56	+ 1 44.4	1.834	2.692	13.9	21.8
8 19	23 34.64	-25 53.2	2.004	2.942	9.0	21.4	8 19	23 34.55	+ 1 20.1	1.769	2.700	10.4	21.6
8 29	23 26.65	-27 8.2	1.985	2.945	7.4	21.3	8 29	23 26.67	+ 0 41.0	1.727	2.708	6.3	21.3
9 8	23 17.60	-28 7.5	1.993	2.949	7.5	21.3	9 8	23 17.65	- 0 8.9	1.711	2.715	2.3	21.1
9 18	23 8.41	-28 45.5	2.027	2.951	9.2	21.4	9 18	23 8.43	- 1 4.3	1.724	2.722	3.2	21.2
9 28	23 0.09	-28 58.9	2.085	2.954	11.6	21.6	9 28	23 0.03	- 1 58.8	1.764	2.727	7.2	21.4
10 8	22 53.45	-28 48.2	2.166	2.955	13.9	21.7	10 8	22 53.28	- 2 46.3	1.831	2.733	11.0	21.7
10 18	22 49.01	-28 15.8	2.266	2.957	15.9	21.9	10 18	22 48.77	- 3 22.7	1.920	2.737	14.3	21.9
223421	2003 <i>SJ</i> ₂₁₈		9 10.4 294°23	0°3/10.8 18			437510	2013 <i>YB</i> ₈₁		9 10.4 80°41	3°3/ 7.3 16		
8 9	23 35.52	- 2 11.0	2.241	3.112	11.3	20.4	8 9	23 38.70	-10 47.5	1.664	2.562	13.1	20.9
8 19	23 30.76	- 2 30.7	2.160	3.101	8.3	20.2	8 19	23 33.26	-11 49.9	1.619	2.576	9.3	20.7
8 29	23 24.46	- 2 59.9	2.103	3.090	4.8	20.0	8 29	23 25.91	-12 56.4	1.598	2.590	5.4	20.5
9 8	23 17.19	- 3 35.3	2.073	3.079	1.1	19.7	9 8	23 17.49	-13 59.3	1.603	2.603	3.4	20.4
9 18	23 9.64	- 4 12.8	2.071	3.068	2.8	19.8	9 18	23 8.99	-14 51.6	1.635	2.617	5.9	20.6
9 28	23 2.62	- 4 47.7	2.097	3.057	6.5	20.0	9 28	23 1.46	-15 27.5	1.693	2.631	9.6	20.9
10 8	22 56.83	- 5 16.0	2.150	3.047	9.9	20.2	10 8	22 55.72	-15 44.6	1.774	2.645	13.0	21.1
10 18	22 52.81	- 5 34.5	2.225	3.036	12.8	20.4	10 18	22 52.29	-15 42.6	1.876	2.658	15.9	21.4
188818	2005 <i>XY</i> ₆₈		9 10.4 41°67	9°2/ 1.4 18			348101	2003 <i>YL</i> ₁₂		9 10.4 293°96	5°9/15.1 18		
8 9	23 39.32	-28 56.1	1.770	2.662	12.7	19.4	8 9	23 40.12	+10 32.3	1.826	2.647	15.5	20.7
8 19	23 33.68	-30 13.4	1.746	2.677	10.5	19.3	8 19	23 34.52	+11 13.7	1.741	2.637	12.6	20.5
8 29	23 26.08	-31 16.8	1.745	2.693	9.3	19.3	8 29	23 26.83	+11 36.5	1.678	2.627	9.4	20.2
9 8	23 17.47	-31 58.4	1.769	2.709	9.5	19.3	9 8	23 17.72	+11 39.6	1.639	2.617	6.7	20.1
9 18	23 8.91	-32 13.2	1.816	2.725	11.1	19.5	9 18	23 8.13	+11 24.4	1.626	2.607	6.0	20.0
9 28	23 1.47	-32 0.0	1.886	2.742	13.2	19.6	9 28	22 59.16	+10 54.9	1.639	2.597	8.2	20.1
10 8	22 55.95	-31 20.8	1.977	2.759	15.3	19.8	10 8	22 51.81	+10 17.4	1.678	2.587	11.4	20.3
10 18	22 52.80	-30 20.0	2.085	2.776	17.1	20.0	10 18	22 46.79	+ 9 38.7	1.739	2.578	14.6	20.5
117515	2005 <i>CH</i> ₄₉		9 10.4 201°74	0°1/10.3 18			394942	2008 <i>XK</i> ₅₃		9 10.4 278°42	6°2/ 4.2 18		
8 9	23 37.11	- 2 20.1	2.046	2.919	12.1	20.9	8 9	23 39.31	-19 14.6	1.826	2.725	12.1	20.8
8 19	23 31.98	- 3 0.2	1.974	2.916	8.8	20.7	8 19	23 33.95	-20 27.6	1.754	2.704	9.2	20.6
8 29	23 25.17	- 3 51.4	1.925	2.914	5.0	20.5	8 29	23 26.49	-21 39.1	1.706	2.684	6.8	20.4
9 8	23 17.33	- 4 49.0	1.904	2.911	1.0	20.2	9 8	23 17.65	-22 40.8	1.684	2.663	6.4	20.3
9 18	23 9.25	- 5 47.6	1.911	2.907	3.2	20.3	9 18	23 8.39	-23 24.9	1.688	2.642	8.6	20.4
9 28	23 1.79	- 6 41.2	1.946	2.904	7.1	20.6	9 28	22 59.84	-23 46.2	1.717	2.621	11.7	20.6
10 8	22 55.75	- 7 24.8	2.007	2.900	10.7	20.8	10 8	22 52.99	-23 43.0	1.769	2.599	14.9	20.7
10 18	22 51.64	- 7 55.3	2.091	2.895	13.7	21.0	10 18	22 48.52	-23 16.3	1.839	2.578	17.7	20.9
230003	2000 <i>DL</i> ₇₁		9 10.4 245°39	0°4/10.8 17			452760	2006 <i>BQ</i> ₂₆₄		9 10.4 238°69	1°4/ 8.5 18		
8 9	23 37.62	- 2 31.5	2.807	3.665	9.6	21.2	8 9	23 33.94	- 6 40.4	2.676	3.555	9.4	21.7
8 19	23 32.02	- 2 40.4	2.715	3.650	7.1	21.0	8 19	23 29.44	- 7 38.9	2.595	3.543	6.7	21.5
8 29	23 25.09	- 2 56.4	2.649	3.634	4.1	20.8	8 29	23 23.66	- 8 44.1	2.541	3.532	3.7	21.3
9 8	23 17.32	- 3 16.9	2.612	3.618	1.0	20.5	9 8	23 17.07	- 9 51.6	2.514	3.519	1.4	21.1
9 18	23 9.28	- 3 39.2	2.605	3.602	2.4	20.6	9 18	23 10.25	-10 56.5	2.518	3.507	3.4	21.3
9 28	23 1.65	- 4 0.0	2.627	3.585	5.5	20.8	9 28	23 3.85	-11 53.9	2.550	3.494	6.5	21.4
10 8	22 55.03	- 4 16.2	2.678	3.567	8.4	21.0	10 8	22 58.47	-12 40.1	2.610	3.481	9.3	21.6
10 18	22 49.91	- 4 25.6	2.753	3.550	11.0	21.1	10 18	22 54.56	-13 13.0	2.693	3.467	11.8	21.8
247985	2004 <i>CB</i> ₇₂		9 10.4 219°15	3°7/ 6.1 18			481643	2007 <i>VD</i> _{116</}					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
139250	2001 <i>HJ</i> ₃₆		9 10.4 81°01	1.8°/ 8.9	17		227162	2005 <i>QH</i> ₁₅		9 10.4 6°44	1.3°/11.3	17	
8 9	23 40.46	- 6 14.1	1.435	2.329	15.1	19.8	8 9	23 33.44	- 0 35.5	0.973	1.883	19.0	19.8
8 19	23 34.72	- 7 4.8	1.391	2.345	10.7	19.5	8 19	23 30.50	- 0 44.6	0.924	1.883	14.0	19.5
8 29	23 26.81	- 8 5.0	1.369	2.361	5.9	19.3	8 29	23 24.79	- 1 14.2	0.893	1.885	8.4	19.2
9 8	23 17.68	- 9 7.1	1.372	2.377	1.8	19.1	9 8	23 17.36	- 1 58.5	0.883	1.889	2.4	18.9
9 18	23 8.49	-10 3.1	1.401	2.393	4.9	19.3	9 18	23 9.61	- 2 49.0	0.894	1.894	4.4	19.0
9 28	23 0.43	-10 46.0	1.456	2.409	9.4	19.6	9 28	23 3.12	- 3 35.3	0.927	1.901	10.2	19.4
10 8	22 54.45	-11 11.7	1.534	2.425	13.5	19.9	10 8	22 59.10	- 4 9.1	0.981	1.910	15.4	19.7
10 18	22 51.05	-11 19.0	1.633	2.441	16.8	20.2	10 18	22 58.21	- 4 25.3	1.052	1.920	19.8	20.0
164210	2004 <i>JH</i> ₂₁		9 10.4 280°03	0°6/11.5	17		73267	2002 <i>JD</i> ₅₀		9 10.4 180°50	1°6/11.8	18	
8 9	23 28.85	- 0 11.0	4.321	5.173	6.7	19.9	8 9	23 41.24	+ 1 27.2	1.653	2.517	14.9	20.5
8 19	23 25.37	- 0 33.6	4.238	5.168	4.9	19.8	8 19	23 35.30	+ 1 8.1	1.583	2.518	11.2	20.3
8 29	23 21.18	- 1 2.0	4.182	5.164	2.9	19.7	8 29	23 27.24	+ 0 33.1	1.536	2.519	6.8	20.0
9 8	23 16.57	- 1 34.3	4.154	5.159	0.9	19.5	9 8	23 17.83	- 0 14.0	1.515	2.519	2.5	19.8
9 18	23 11.85	- 2 8.6	4.156	5.154	1.5	19.6	9 18	23 8.12	- 1 7.5	1.520	2.518	3.4	19.8
9 28	23 7.38	- 2 42.4	4.189	5.149	3.5	19.7	9 28	22 59.25	- 2 0.3	1.553	2.518	7.9	20.1
10 8	23 3.49	- 3 13.5	4.249	5.144	5.4	19.8	10 8	22 52.21	- 2 46.0	1.611	2.516	12.1	20.4
10 18	23 0.44	- 3 40.0	4.336	5.139	7.2	20.0	10 18	22 47.63	- 3 19.9	1.691	2.514	15.6	20.6
248981	2007 <i>EB</i> ₁₄		9 10.4 224°32	1°5/ 8.8	18		129986	1999 <i>UP</i> ₅₃		9 10.4 40°43	1°7/ 9.0	18	
8 9	23 39.45	- 9 17.5	2.699	3.573	9.5	20.9	8 9	23 38.47	- 6 58.4	1.580	2.474	13.9	20.3
8 19	23 33.35	- 9 35.1	2.619	3.564	6.8	20.8	8 19	23 33.27	- 7 34.3	1.525	2.479	9.9	20.0
8 29	23 25.85	- 9 55.8	2.564	3.554	3.8	20.6	8 29	23 26.03	- 8 18.3	1.492	2.485	5.5	19.8
9 8	23 17.51	-10 16.2	2.539	3.543	1.5	20.4	9 8	23 17.58	- 9 4.3	1.485	2.491	1.7	19.6
9 18	23 8.94	-10 32.9	2.543	3.532	3.4	20.5	9 18	23 8.96	- 9 45.6	1.504	2.497	4.6	19.8
9 28	23 0.88	-10 42.9	2.577	3.521	6.4	20.7	9 28	23 1.27	-10 16.2	1.550	2.504	8.9	20.0
10 8	22 53.95	-10 44.0	2.639	3.509	9.2	20.8	10 8	22 55.43	-10 32.3	1.619	2.510	12.8	20.3
10 18	22 48.63	-10 35.1	2.724	3.497	11.7	21.0	10 18	22 51.98	-10 32.3	1.709	2.517	16.1	20.5
358861	2008 <i>FC</i> ₁₀₂		9 10.4 49°80	2°7/13.8	18		85042	4779 <i>P-L</i>		9 10.4 303°68	0°6/ 9.9	18	
8 9	23 33.01	+ 7 42.4	2.084	2.924	13.2	20.6	8 9	23 37.50	- 4 34.2	1.801	2.685	13.0	20.0
8 19	23 28.99	+ 6 53.2	2.012	2.928	10.2	20.4	8 19	23 32.51	- 4 59.8	1.728	2.677	9.4	19.7
8 29	23 23.47	+ 5 44.8	1.963	2.933	6.8	20.2	8 29	23 25.62	- 5 35.2	1.678	2.668	5.3	19.5
9 8	23 17.04	+ 4 21.2	1.941	2.937	3.5	20.0	9 8	23 17.52	- 6 15.6	1.654	2.660	1.0	19.2
9 18	23 10.42	+ 2 47.8	1.946	2.942	3.2	20.0	9 18	23 9.10	- 6 55.5	1.657	2.652	3.7	19.4
9 28	23 4.40	+ 1 12.2	1.979	2.946	6.2	20.2	9 28	23 1.38	- 7 29.2	1.687	2.645	8.0	19.6
10 8	22 59.68	+ 0 18.2	2.040	2.951	9.6	20.4	10 8	22 55.25	- 7 52.2	1.741	2.637	11.9	19.8
10 18	22 56.74	- 1 37.6	2.125	2.956	12.6	20.6	10 18	22 51.30	- 8 1.8	1.818	2.630	15.2	20.0
18522	1996 <i>VA</i> ₆		9 10.4 302°78	9°6/31.9	18		108810	2001 <i>OV</i> ₇₄		9 10.4 9°90	4°7/13.9	18	
8 9	23 38.76	-25 52.1	1.549	2.452	13.6	17.7	8 9	23 36.44	+ 6 44.8	1.227	2.097	18.7	18.6
8 19	23 33.87	-27 33.8	1.495	2.437	11.1	17.5	8 19	23 32.34	+ 6 55.0	1.167	2.098	14.6	18.4
8 29	23 26.55	-29 7.0	1.464	2.423	9.7	17.4	8 29	23 25.74	+ 6 40.4	1.126	2.100	10.0	18.1
9 8	23 17.68	-30 20.2	1.456	2.408	10.1	17.4	9 8	23 17.56	+ 6 2.8	1.107	2.103	5.7	17.9
9 18	23 8.43	-31 4.6	1.472	2.394	12.2	17.5	9 18	23 9.02	+ 5 7.9	1.112	2.107	5.2	17.9
9 28	23 0.15	-31 15.4	1.510	2.380	15.1	17.6	9 28	23 1.52	+ 4 4.6	1.140	2.112	9.0	18.1
10 8	22 53.95	-30 53.2	1.567	2.366	17.9	17.8	10 8	22 56.22	+ 3 3.1	1.191	2.117	13.5	18.4
10 18	22 50.50	-30 1.8	1.640	2.353	20.4	17.9	10 18	22 53.79	+ 2 11.3	1.261	2.124	17.5	18.7
512794	2016 <i>UX</i> ₈₁		9 10.4 7°30	0°6/10.9	18		260362	2004 <i>TG</i> ₃₅₇		9 10.4 0°94	5°0/ 4.9	18	
8 9	23 35.14	- 0 24.2	1.464	2.350	15.3	20.8	8 9	23 32.67	-14 9.6	1.692	2.601	12.2	19.6
8 19	23 31.04	- 0 59.5	1.403	2.351	11.2	20.6	8 19	23 29.09	-15 44.7	1.639	2.600	8.8	19.3
8 29	23 24.83	- 1 51.2	1.363	2.352	6.6	20.3	8 29	23 23.66	-17 22.5	1.611	2.599	5.8	19.2
9 8	23 17.33	- 2 53.8	1.347	2.354	1.7	20.0	9 8	23 17.13	-18 53.7	1.609	2.599	5.2	19.1
9 18	23 9.56	- 3 59.9	1.357	2.356	3.6	20.2	9 18	23 10.37	-20 9.9	1.633	2.600	7.6	19.3
9 28	23 2.66	- 5 1.1	1.393	2.359	8.4	20.5	9 28	23 4.38	-21 4.3	1.681	2.602	10.9	19.5
10 8	22 57.61	- 5 50.6	1.452	2.362	12.8	20.7	10 8	22 59.99	-21 34.2	1.752	2.604	14.1	19.7
10 18	22 54.99	- 6 23.9	1.532	2.366	16.4	21.0	10 18	22 57.75	-21 39.6	1.842	2.606	16.8	19.9
205178	2000 <i>CC</i> ₁₂		9 10.4 259°76	2°6/ 7.5	18		392069	2009 <i>CO</i> ₄₁		9 10.4 70°18	2°8/ 7.3	18	
8 9	23 36.55	- 8 55.8	2.054	2.943	11.4	20.7	8 9	23 35.24	- 8 21.9	1.773	2.669	12.5	21.2
8 19	23 31.72	-10 5.5	1.972	2.925	8.1	20.5	8 19	23 30.80	- 9 47.3	1.719	2.676	8.8	21.0
8 29	23 25.14	-11 22.9	1.915	2.907	4.7	20.2	8 29	23 24.58	-11 20.2	1.690	2.682	5.0	20.8
9 8	23 17.40	-12 41.7	1.886	2.888	2.6	20.1	9 8	23 17.30	-12 52.7	1.687	2.689	2.9	20.7
9 18	23 9.28	-13 54.8	1.885	2.869	5.1	20.2	9 18	23 9.85	-14 16.3	1.712	2.696	5.5	20.9
9 28	23 1.70	-14 55.5	1.911	2.849	8.7	20.4	9 28	23 3.18	-15 24.1	1.764	2.703	9.2	21.1
10 8	22 55.49	-15 39.4	1.963	2.829	12.1	20.6	10 8	22 58.09	-16 11.7	1.839	2.710	12.6	21.3
10 18	22 51.26	-16 4.4	2.036	2.808	15.1	20.7	10 18	22 55.10	-16 37.9	1.936	2.717	15.5	21.6
345049	2005 <i>GP</i> ₄₈		9 10.4 253°03	0°2/10.2	18		451133	2009 <i>PW</i> ₁₁		9 10.4 350°56	4°8/13.8	17	
8 9	23 37.14	- 2 40.8	2.073	2.946	12.0	21.8	8 9	23 37.17	+ 5 43.1	1.534	2.393	16.1	19.7
8 19	23 32.10	- 3 20.0	1.988	2.931	8.7	21.5	8 19	23 32.61	+ 6 29.9	1.459	2.383	12.7	19.5
8 29	23 25.34	- 4 10.4	1.927	2.915	5.0	21.3	8 29	23 25.83	+ 6 59.7	1.406	2.375	8.9	19.2
9 8	23 17.44	- 5 7.7	1.893	2.899	1.0	20.9	9 8	23 17.59	+ 7 12.4	1.375	2.367	5.6	19.0
9 18	23 9.18	- 6 6.4	1.887	2.883	3.2	21.1	9 18	23 8.90	+ 7 9.8	1.370	2.361	5.2	19.0
9 28	23 1.47	- 7 0.4	1.910	2.867	7.3	21.3	9 28	23 0.97	+ 6 56.2	1.390	2.357	8.3	19.2
10 8	22 55.11	- 7 44.7	1.958	2.850	11.0	21.5	10 8	22 54.85	+ 6 37.8	1.433	2.353	12.2	19.4
10 18	22 50.70	- 8 15.7	2.029	2.833	14.1	21.7	10 18	22 51.26	+ 6 20.5	1.498	2.351	15.8	19.6
490151	2008 <i>UW</i> ₁₇₈		9 10.4 350°13	10°1/20.1	17		43274	2000 <i>ER</i> ₅₆		9 10.4 1			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
146210	2000 <i>UV</i> ₉₄		9 10.4	19° 97'	4.9°/15.5	18	340362	2006 <i>DE</i> ₁₀₉		9 10.5	337° 26'	2.1°/12.4	18
8 9	23 35.79	+10 57.5	1.976	2.798	14.5	19.7	8 9	23 32.07	+ 4 16.1	1.338	2.218	16.8	19.8
8 19	23 31.15	+11 4.6	1.903	2.800	11.6	19.5	8 19	23 29.12	+ 3 30.6	1.265	2.207	12.7	19.5
8 29	23 24.79	+10 51.9	1.851	2.802	8.5	19.4	8 29	23 23.93	+ 2 20.0	1.212	2.196	8.0	19.2
9 8	23 17.36	+10 20.5	1.823	2.804	5.8	19.2	9 8	23 17.25	+ 0 49.1	1.182	2.186	3.2	18.9
9 18	23 9.67	+ 9 33.4	1.822	2.807	5.0	19.2	9 18	23 10.12	- 0 53.4	1.177	2.177	3.8	18.9
9 28	23 2.62	+ 8 36.1	1.847	2.810	7.0	19.3	9 28	23 3.80	- 2 35.8	1.197	2.168	8.8	19.2
10 8	22 57.01	+ 7 35.4	1.898	2.812	10.0	19.5	10 8	22 59.36	- 4 7.2	1.240	2.161	13.6	19.4
10 18	22 53.39	+ 6 37.7	1.973	2.816	13.0	19.7	10 18	22 57.51	- 5 19.6	1.303	2.155	17.7	19.7
299673	2006 <i>QG</i> ₁₆		9 10.4	43° 46'	0.9°/11.1	18	19680	1999 <i>RE</i> ₁₈₀		9 10.5	42° 94'	6.1°/ 6.3	18
8 9	23 40.62	- 1 55.9	1.485	2.367	15.4	20.0	8 9	23 41.92	-15 51.1	1.190	2.103	16.1	16.7
8 19	23 34.77	- 1 54.5	1.440	2.385	11.2	19.8	8 19	23 36.22	-16 49.2	1.151	2.112	11.7	16.4
8 29	23 26.84	- 2 5.3	1.416	2.404	6.6	19.6	8 29	23 27.86	-17 45.9	1.133	2.121	7.7	16.3
9 8	23 17.75	- 2 24.3	1.417	2.423	1.8	19.3	9 8	23 18.00	-18 30.9	1.138	2.131	6.2	16.2
9 18	23 8.62	- 2 46.5	1.444	2.443	3.5	19.5	9 18	23 8.08	-18 55.9	1.167	2.142	8.8	16.4
9 28	23 0.59	- 3 6.3	1.498	2.463	8.1	19.8	9 28	22 59.59	-18 56.1	1.219	2.153	12.8	16.7
10 8	22 54.56	+ 3 19.1	1.575	2.483	12.1	20.1	10 8	22 53.62	-18 31.4	1.291	2.164	16.7	16.9
10 18	22 51.05	- 3 21.9	1.674	2.504	15.5	20.4	10 18	22 50.70	-17 44.8	1.382	2.176	20.0	17.2
217720	1999 <i>VA</i> ₁₀₅		9 10.4	275° 23'	7.1°/19.9	18	154407	2003 <i>AB</i> ₅₉		9 10.5	275° 06'	2.9°/ 7.9	18
8 9	23 34.06	+21 5.1	2.340	3.090	14.6	20.0	8 9	23 38.99	- 9 11.6	1.609	2.505	13.6	20.1
8 19	23 29.78	+21 7.9	2.255	3.089	12.5	19.9	8 19	23 33.92	-10 7.7	1.532	2.487	9.8	19.8
8 29	23 23.97	+20 47.1	2.190	3.087	10.2	19.7	8 29	23 26.61	-11 12.2	1.477	2.470	5.6	19.6
9 8	23 17.20	+20 2.5	2.148	3.086	8.2	19.6	9 8	23 17.80	-12 17.8	1.449	2.452	2.9	19.4
9 18	23 10.17	+18 56.0	2.131	3.085	7.1	19.5	9 18	23 8.50	-13 16.4	1.447	2.434	5.8	19.5
9 28	23 3.67	+17 32.2	2.141	3.083	7.6	19.5	9 28	22 59.93	-14 0.5	1.471	2.415	10.2	19.7
10 8	22 58.42	+15 58.5	2.177	3.082	9.4	19.7	10 8	22 53.16	-14 25.5	1.518	2.397	14.3	19.9
10 18	22 54.92	+14 22.2	2.238	3.080	11.6	19.8	10 18	22 48.91	-14 29.7	1.585	2.379	17.8	20.1
313315	2002 <i>EX</i> ₄₉		9 10.4	193° 00'	0.1°/10.6	17	479358	2013 <i>XN</i> ₈		9 10.5	237° 06'	4.0°/14.6	18
8 9	23 40.63	- 1 17.9	1.772	2.642	13.8	22.1	8 9	23 37.37	+ 9 13.3	1.973	2.801	14.3	21.8
8 19	23 34.79	- 2 2.4	1.699	2.640	10.1	21.9	8 19	23 32.40	+ 9 0.8	1.886	2.791	11.3	21.6
8 29	23 26.93	- 3 0.7	1.651	2.638	5.8	21.7	8 29	23 25.60	+ 8 28.2	1.821	2.781	8.0	21.4
9 8	23 17.80	- 4 7.8	1.629	2.635	1.2	21.3	9 8	23 17.60	+ 7 37.2	1.781	2.770	4.9	21.2
9 18	23 8.36	- 5 16.8	1.635	2.631	3.5	21.5	9 18	23 9.21	+ 6 31.7	1.768	2.759	4.3	21.1
9 28	22 59.68	- 6 20.3	1.668	2.627	8.0	21.8	9 28	23 1.39	+ 5 18.0	1.783	2.748	7.0	21.3
10 8	22 52.70	- 7 12.2	1.728	2.622	12.0	22.0	10 8	22 55.02	+ 4 3.5	1.825	2.736	10.5	21.5
10 18	22 48.03	- 7 48.9	1.809	2.616	15.4	22.2	10 18	22 50.71	+ 2 55.2	1.889	2.724	13.8	21.6
174303	2002 <i>TZ</i> ₄₂		9 10.4	255° 51'	4.3°/15.4	18	383281	2006 <i>DZ</i> ₁₇₁		9 10.5	144° 15'	1.2°/ 9.4	14 C
8 9	23 35.03	+11 16.3	2.091	2.909	14.0	20.2	8 9	23 39.72	- 6 5.7	1.945	2.825	12.3	22.2
8 19	23 30.61	+10 55.6	2.003	2.899	11.2	20.0	8 19	23 33.90	- 6 40.7	1.884	2.832	8.8	22.0
8 29	23 24.52	+10 13.9	1.936	2.889	8.1	19.8	8 29	23 26.32	- 7 23.2	1.848	2.838	4.9	21.8
9 8	23 17.34	+ 9 12.8	1.894	2.879	5.2	19.6	9 8	23 17.72	- 8 8.2	1.838	2.844	1.3	21.6
9 18	23 9.82	+ 7 56.1	1.879	2.868	4.4	19.5	9 18	23 8.94	- 8 50.2	1.857	2.850	3.8	21.8
9 28	23 2.84	+ 6 30.2	1.893	2.857	6.7	19.7	9 28	23 0.94	- 9 23.9	1.903	2.855	7.7	22.0
10 8	22 57.17	+ 5 2.9	1.932	2.846	9.9	19.8	10 8	22 54.51	- 9 45.9	1.975	2.860	11.2	22.3
10 18	22 53.41	+ 3 41.2	1.997	2.835	13.0	20.0	10 18	22 50.16	- 9 54.2	2.069	2.864	14.2	22.5
56035	1998 <i>WV</i> ₂₀		9 10.4	171° 46'	2.0°/ 8.9	18	206180	2002 <i>TY</i> ₃₀₄		9 10.5	57° 66'	1.3°/ 9.1	18
8 9	23 41.28	- 6 20.6	1.408	2.301	15.3	18.8	8 9	23 35.71	- 5 0.8	1.814	2.701	12.7	20.1
8 19	23 35.59	- 7 13.2	1.349	2.303	11.0	18.5	8 19	23 31.16	- 6 1.0	1.752	2.704	9.1	19.9
8 29	23 27.51	- 8 16.9	1.312	2.304	6.1	18.3	8 29	23 24.84	- 7 11.4	1.715	2.707	5.0	19.7
9 8	23 17.93	- 9 23.7	1.300	2.305	2.0	18.0	9 8	23 17.45	- 8 25.6	1.704	2.710	1.4	19.4
9 18	23 8.08	-10 25.0	1.314	2.306	5.2	18.2	9 18	23 9.86	- 9 36.6	1.720	2.713	4.1	19.6
9 28	22 59.26	-11 12.9	1.354	2.307	10.1	18.5	9 28	23 3.00	-10 37.4	1.763	2.716	8.2	19.9
10 8	22 52.56	-11 42.3	1.417	2.307	14.4	18.8	10 8	22 57.69	-11 23.1	1.832	2.719	11.8	20.1
10 18	22 48.63	-11 51.5	1.499	2.306	18.1	19.0	10 18	22 54.44	-11 51.2	1.921	2.722	14.9	20.3
398306	2010 <i>XC</i> ₄₄		9 10.4	71° 81'	9.4°/23.2	18	339223	Stongemorin		9 10.5	313° 34'	0.9°/11.1	18
8 9	23 36.26	+27 28.5	2.341	3.038	15.9	20.2	8 9	23 38.19	- 1 42.5	1.404	2.291	15.7	21.2
8 19	23 31.43	+28 6.0	2.265	3.044	14.1	20.1	8 19	23 33.78	- 1 45.9	1.313	2.261	11.8	20.9
8 29	23 24.95	+28 18.2	2.207	3.051	12.3	20.0	8 29	23 26.79	- 2 3.8	1.243	2.232	7.1	20.5
9 8	23 17.42	+28 3.3	2.169	3.058	10.6	19.9	9 8	23 17.94	- 2 32.8	1.197	2.203	1.9	20.1
9 18	23 9.60	+27 21.5	2.154	3.064	9.5	19.8	9 18	23 8.30	- 3 7.5	1.176	2.174	4.0	20.2
9 28	23 2.38	+26 16.3	2.164	3.071	9.5	19.8	9 28	22 59.27	- 3 40.9	1.179	2.146	9.5	20.4
10 8	22 56.52	+24 54.3	2.199	3.077	10.5	19.9	10 8	22 52.17	- 4 5.8	1.205	2.119	14.6	20.7
10 18	22 52.57	+23 23.2	2.257	3.084	12.1	20.0	10 18	22 47.93	- 4 17.5	1.251	2.092	19.0	20.9
288013	2003 <i>UC</i> ₂₁₀		9 10.4	330° 78'	2.6°/ 8.8	18	306873	2001 <i>SS</i> ₃₂₇		9 10.5	322° 78'	2.1°/ 8.6	18
8 9	23 38.30	- 8 26.3	1.108	2.021	16.9	19.7	8 9	23 35.87	- 7 50.9	1.642	2.539	13.3	20.3
8 19	23 34.07	- 8 54.4	1.043	2.007	12.3	19.4	8 19	23 31.58	- 8 33.4	1.568	2.525	9.5	20.0
8 29	23 26.94	- 9 32.3	0.999	1.994	7.0	19.1	8 29	23 25.24	- 9 24.4	1.517	2.510	5.4	19.7
9 8	23 17.86	-10 12.1	0.976	1.981	2.7	18.8	9 8	23 17.58	-10 17.7	1.492	2.497	2.1	19.5
9 18	23 8.23	-10 45.0	0.976	1.970	6.2	19.0	9 18	23 9.53	-11 6.2	1.492	2.483	5.0	19.7
9 28	22 59.70	-11 2.9	1.000	1.959	11.8	19.3	9 28	23 2.20	-11 43.3	1.519	2.471	9.3	19.9
10 8	22 53.63	-11 0.9	1.043	1.950	16.9	19.5	10 8	22 56.54	-12 4.4	1.569	2.458	13.3	20.1
10 18	22 50.84	-10 37.8	1.104	1.942	21.2	19.8	10 18	22 53.22	-12 7.6	1.639	2.447	16.7	20.3
128223	2003 <i>SG</i> ₁₀₂		9 10.5	184° 21'	6.0°/19.8	18							

EPHEMERIDES

9 10.5

9 10.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
319627	2006 SE ₃₃₂		9 10.5 11°24	0°3/10.6	18		465621	2009 FQ ₄₂		9 10.5 61°02	4°8/6.9	17	
8 9	23 35.19	- 3 31.0	0.872	1.792	19.6	19.1	8 9	23 41.49	-12 25.2	1.196	2.107	16.2	21.0
8 19	23 31.96	- 3 30.3	0.830	1.795	14.3	18.8	8 19	23 35.84	-13 32.9	1.161	2.122	11.6	20.8
8 29	23 25.73	- 3 46.5	0.806	1.801	8.2	18.5	8 29	23 27.65	-14 43.4	1.147	2.138	7.0	20.6
9 8	23 17.68	- 4 12.9	0.801	1.808	1.7	18.1	9 8	23 18.05	-15 46.3	1.156	2.154	4.9	20.5
9 18	23 9.40	- 4 41.5	0.818	1.817	4.8	18.4	9 18	23 8.45	-16 32.3	1.190	2.171	7.7	20.7
9 28	23 2.59	- 5 3.1	0.855	1.829	10.9	18.8	9 28	23 0.26	-16 55.4	1.247	2.187	12.0	21.0
10 8	22 58.51	- 5 11.4	0.912	1.842	16.3	19.1	10 8	22 54.51	-16 54.0	1.325	2.204	16.0	21.3
10 18	22 57.74	- 5 3.0	0.986	1.857	20.7	19.4	10 18	22 51.71	-16 30.0	1.422	2.221	19.3	21.6
375705	2009 PU ₆		9 10.5 315°10	3°0/7.2	18		256419	2007 BH ₂₁		9 10.5 8°29	4°7/5.2	18	
8 9	23 30.56	- 1 57.2	1.215	2.121	16.3	20.6	8 9	23 36.08	-16 12.9	2.020	2.920	11.1	20.1
8 19	23 28.39	- 4 36.5	1.133	2.095	11.7	20.3	8 19	23 31.33	-17 24.8	1.966	2.920	8.1	20.0
8 29	23 23.75	- 7 49.0	1.074	2.070	6.4	19.9	8 29	23 24.92	-18 36.6	1.936	2.920	5.5	19.8
9 8	23 17.33	-11 20.7	1.041	2.045	3.1	19.6	9 8	23 17.52	-19 41.1	1.933	2.920	4.9	19.8
9 18	23 10.21	-14 51.7	1.034	2.021	7.5	19.8	9 18	23 9.93	-20 32.0	1.957	2.921	6.8	19.9
9 28	23 3.79	-18 0.7	1.053	1.997	13.3	20.1	9 28	23 3.05	-21 4.7	2.007	2.921	9.7	20.1
10 8	22 59.37	-20 32.5	1.094	1.975	18.5	20.3	10 8	22 57.63	-21 17.2	2.081	2.922	12.6	20.3
10 18	22 57.86	-22 20.2	1.153	1.953	22.8	20.5	10 18	22 54.17	-21 10.0	2.175	2.922	15.0	20.4
304590	2006 VO ₅₇		9 10.5 31°97	7°2/3.7	18		73631	4367 T ₋₃		9 10.5 261°57	7°1/4.0	18	
8 9	23 38.52	-22 10.8	1.704	2.606	12.6	20.2	8 9	23 42.88	-23 24.1	1.868	2.759	12.2	19.4
8 19	23 33.28	-23 21.7	1.664	2.613	9.7	20.0	8 19	23 36.47	-24 18.9	1.808	2.749	9.6	19.2
8 29	23 26.05	-24 25.7	1.648	2.620	7.6	19.9	8 29	23 27.94	-25 6.9	1.771	2.739	7.5	19.1
9 8	23 17.72	-25 14.4	1.657	2.627	7.4	19.9	9 8	23 18.14	-25 40.0	1.760	2.728	7.3	19.0
9 18	23 9.30	-25 41.5	1.690	2.635	9.3	20.1	9 18	23 8.08	-25 52.4	1.776	2.718	9.1	19.1
9 28	23 1.87	-25 43.9	1.748	2.643	12.0	20.2	9 28	22 58.93	-25 40.9	1.816	2.707	11.9	19.3
10 8	22 56.29	-25 22.0	1.828	2.652	14.7	20.5	10 8	22 51.61	-25 5.9	1.879	2.697	14.7	19.4
10 18	22 53.07	-24 38.6	1.926	2.661	17.1	20.7	10 18	22 46.74	-24 10.3	1.961	2.686	17.1	19.6
358841	2008 FD ₅₃		9 10.5 34°25	2°7/13.3	15		375797	2009 SU ₃₆₃		9 10.5 147°91	3°2/7.7	17	
8 9	23 33.35	+ 6 19.2	1.589	2.449	15.6	20.1	8 9	23 40.98	-10 39.1	1.681	2.574	13.2	20.7
8 19	23 29.51	+ 5 34.4	1.542	2.471	11.8	19.9	8 19	23 35.07	-11 31.7	1.625	2.579	9.5	20.4
8 29	23 23.89	+ 4 28.6	1.518	2.494	7.7	19.7	8 29	23 27.12	-12 29.0	1.593	2.584	5.5	20.2
9 8	23 17.28	+ 3 7.1	1.517	2.517	3.7	19.6	9 8	23 17.97	-13 23.7	1.587	2.588	3.2	20.1
9 18	23 10.60	+ 1 37.4	1.543	2.541	3.4	19.6	9 18	23 8.62	-14 8.9	1.608	2.592	5.7	20.3
9 28	23 4.81	+ 0 8.4	1.595	2.565	7.1	19.9	9 28	23 0.20	-14 39.0	1.656	2.596	9.6	20.5
10 8	23 0.67	- 1 11.7	1.672	2.590	10.9	20.2	10 8	22 53.62	-14 51.1	1.727	2.599	13.2	20.7
10 18	22 58.64	- 2 17.4	1.772	2.616	14.2	20.4	10 18	22 49.44	-14 45.0	1.819	2.602	16.3	21.0
459736	2013 QA ₆		9 10.5 30°92	5°9/18.1	17		354333	2003 AK ₄		9 10.5 264°28	2°9/7.4	18	
8 9	23 35.84	+17 11.6	2.704	3.468	12.5	20.5	8 9	23 36.41	-10 23.7	2.005	2.897	11.4	21.2
8 19	23 30.89	+17 40.2	2.622	3.469	10.5	20.4	8 19	23 31.63	-11 23.1	1.936	2.890	8.2	21.0
8 29	23 24.59	+17 51.6	2.561	3.471	8.4	20.2	8 29	23 25.14	-12 27.8	1.892	2.883	4.8	20.8
9 8	23 17.44	+17 45.3	2.525	3.472	6.7	20.1	9 8	23 17.58	-13 31.4	1.875	2.875	2.9	20.7
9 18	23 10.04	+17 22.5	2.516	3.474	5.9	20.1	9 18	23 9.76	-14 27.5	1.885	2.868	5.2	20.8
9 28	23 3.09	+16 46.1	2.534	3.475	6.7	20.1	9 28	23 2.57	-15 10.5	1.923	2.860	8.7	21.0
10 8	22 57.23	+16 0.8	2.579	3.477	8.4	20.2	10 8	22 56.81	-15 36.9	1.985	2.853	12.0	21.2
10 18	22 52.91	+15 11.6	2.648	3.478	10.4	20.4	10 18	22 53.03	-15 45.6	2.068	2.845	14.8	21.4
444719	2007 EE ₂₂₁		9 10.5 252°12	5°3/4.9	18		103903	2000 DX ₅₆		9 10.5 47°78	0°8/11.2	18	
8 9	23 39.85	-20 58.5	2.284	3.173	10.4	21.1	8 9	23 38.82	- 1 20.8	1.779	2.652	13.6	19.8
8 19	23 33.85	-21 38.6	2.229	3.173	7.9	20.9	8 19	23 33.44	- 1 32.3	1.715	2.656	10.0	19.5
8 29	23 26.27	-22 14.0	2.198	3.172	5.8	20.8	8 29	23 26.18	- 1 55.6	1.674	2.660	5.9	19.3
9 8	23 17.77	-22 39.1	2.195	3.171	5.4	20.8	9 8	23 17.79	- 2 26.8	1.658	2.664	1.6	19.0
9 18	23 9.15	-22 49.6	2.219	3.171	7.0	20.9	9 18	23 9.17	- 3 1.2	1.670	2.668	3.2	19.2
9 28	23 1.26	-22 43.0	2.270	3.170	9.4	21.0	9 28	23 1.35	- 3 33.3	1.709	2.672	7.4	19.4
10 8	22 54.82	-22 19.1	2.344	3.170	11.9	21.2	10 8	22 55.17	- 3 58.2	1.773	2.677	11.2	19.7
10 18	22 50.32	-21 39.2	2.440	3.169	14.0	21.3	10 18	22 51.20	- 4 12.6	1.859	2.681	14.5	19.9
60877	2000 HD ₈₉		9 10.5 179°92	1°3/9.2	17		204517	2005 EL ₂₁		9 10.5 324°02	3°9/7.2	18	
8 9	23 40.04	- 5 50.7	1.867	2.748	12.7	20.5	8 9	23 32.54	- 8 15.9	1.221	2.137	15.4	18.6
8 19	23 34.27	- 6 36.6	1.801	2.749	9.1	20.3	8 19	23 30.02	- 9 36.2	1.129	2.095	11.2	18.3
8 29	23 26.64	- 7 31.5	1.759	2.750	5.1	20.0	8 29	23 24.84	-11 14.4	1.058	2.054	6.6	17.9
9 8	23 17.86	- 8 29.3	1.744	2.750	1.4	19.8	9 8	23 17.62	-13 1.2	1.010	2.013	3.9	17.6
9 18	23 8.84	- 9 23.9	1.758	2.750	4.1	20.0	9 18	23 9.45	-14 43.7	0.986	1.973	7.7	17.7
9 28	23 0.58	-10 9.3	1.799	2.749	8.2	20.2	9 28	23 1.84	-16 8.5	0.984	1.934	13.2	17.9
10 8	22 53.94	-10 41.0	1.865	2.748	11.8	20.5	10 8	22 56.26	-17 5.4	1.002	1.896	18.6	18.0
10 18	22 49.48	-10 57.0	1.953	2.746	14.9	20.7	10 18	22 53.78	-17 29.7	1.036	1.860	23.3	18.2
243887	2000 YA ₁₀₁		9 10.5 208°73	0°3/10.1	18		349775	2009 BW ₁₄		9 10.5 273°60	5°7/15.1	18	
8 9	23 36.11	+ 1 4.5	2.187	3.046	12.0	20.5	8 9	23 40.90	+10 52.5	1.964	2.778	14.9	20.7
8 19	23 31.31	- 0 47.0	2.104	3.041	8.7	20.3	8 19	23 35.17	+11 27.5	1.866	2.757	12.1	20.5
8 29	23 24.92	- 2 55.8	2.049	3.036	4.9	20.1	8 29	23 27.36	+11 44.6	1.789	2.736	9.1	20.3
9 8	23 17.52	- 5 14.9	2.023	3.030	0.9	19.8	9 8	23 18.08	+11 42.8	1.737	2.714	6.5	20.1
9 18	23 9.83	- 7 35.5	2.028	3.023	3.3	20.0	9 18	23 8.19	+11 23.1	1.711	2.692	5.8	20.0
9 28	23 2.67	- 9 48.1	2.065	3.016	7.2	20.2	9 28	22 58.76	+10 49.3	1.713	2.670	8.0	20.1
10 8	22 56.78	-11 45.0	2.129	3.008	10.8	20.4	10 8	22 50.81	+10 7.4	1.741	2.648	11.2	20.2
10 18	22 52.71	-13 21.4	2.218	3.000	13.7	20.6	10 18	22 45.08	+ 9 24.0	1.791	2.625	14.4	20.4
68621	2002 AK ₁₈₉		9 10.5 134°85	4°1/15.2	18		37319	2001 QL ₃₇		9 10.5 288°39	1°0/9.5	18	
8 9	23 37.77	+11 0.0</											

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
187126	2005 QN ₉₁		9 10.5	7°35'	1.6°/9.5	18	3059	Pryor		9 10.5	297°98'	0.5°/10.9	18 R
8 9	23 36.55	- 6 31.4	1.017	1.933	17.8	19.0	8 9	23 37.58	- 0 43.6	1.318	2.207	16.4	16.5
8 19	23 32.74	- 6 50.1	0.969	1.934	12.8	18.7	8 19	23 33.30	- 1 19.2	1.243	2.192	12.2	16.2
8 29	23 26.14	- 7 20.5	0.940	1.936	7.2	18.4	8 29	23 26.49	- 2 13.8	1.188	2.178	7.2	15.9
9 8	23 17.82	- 7 55.0	0.933	1.939	1.8	18.1	9 8	23 17.94	- 3 21.9	1.157	2.163	1.7	15.5
9 18	23 9.23	- 8 25.3	0.948	1.944	5.4	18.4	9 18	23 8.82	- 4 35.1	1.151	2.149	4.1	15.6
9 28	23 1.95	- 8 43.4	0.985	1.951	11.0	18.7	9 28	23 0.54	- 5 43.7	1.169	2.135	9.7	15.9
10 8	22 57.19	- 8 44.6	1.043	1.959	16.0	19.0	10 8	22 54.32	- 6 38.8	1.210	2.121	14.7	16.2
10 18	22 55.58	- 8 27.3	1.118	1.968	20.1	19.3	10 18	22 50.96	- 7 15.0	1.270	2.108	19.0	16.4
41931	2000 WO ₁₇₇		9 10.5	355°40'	2.3°/8.7	18	13425	Waynebrow		9 10.5	316°56'	0.4°/10.1	18
8 9	23 30.93	- 4 55.4	0.912	1.838	18.4	17.6	8 9	23 35.39	- 3 40.7	1.931	2.813	12.3	18.0
8 19	23 28.95	- 6 3.9	0.861	1.831	13.2	17.3	8 19	23 30.99	- 4 11.0	1.853	2.801	9.0	17.8
8 29	23 24.11	- 7 31.7	0.828	1.826	7.4	16.9	8 29	23 24.84	- 4 51.6	1.799	2.789	5.1	17.5
9 8	23 17.43	- 9 7.5	0.816	1.822	2.4	16.6	9 8	23 17.57	- 5 38.1	1.770	2.777	1.0	17.2
9 18	23 10.33	-10 37.3	0.825	1.821	6.5	16.9	9 18	23 9.98	- 6 25.2	1.769	2.765	3.4	17.4
9 28	23 4.44	-11 47.8	0.855	1.820	12.4	17.2	9 28	23 2.98	- 7 7.1	1.795	2.754	7.5	17.6
10 8	23 1.06	-12 30.5	0.904	1.822	17.7	17.5	10 8	22 57.39	- 7 39.0	1.846	2.743	11.2	17.8
10 18	23 0.88	-12 43.0	0.970	1.825	22.1	17.8	10 18	22 53.80	- 7 57.7	1.919	2.733	14.4	18.0
153301	Alissamearle		9 10.5	283°82'	0.8°/11.4	18	364980	2008 HM ₅₄		9 10.5	59°36'	3.6°/14.8	18
8 9	23 34.29	+ 0 24.6	2.242	3.106	11.5	20.2	8 9	23 34.27	+ 9 26.7	2.160	2.987	13.3	21.1
8 19	23 29.99	- 0 11.3	2.158	3.094	8.5	20.0	8 19	23 29.96	+ 9 4.7	2.087	2.991	10.4	20.9
8 29	23 24.18	- 0 59.5	2.099	3.083	5.1	19.8	8 29	23 24.15	+ 8 24.3	2.036	2.995	7.3	20.8
9 8	23 17.41	- 1 56.6	2.066	3.071	1.5	19.5	9 8	23 17.42	+ 7 27.6	2.010	2.999	4.5	20.6
9 18	23 10.36	- 2 57.7	2.062	3.060	2.7	19.6	9 18	23 10.48	+ 6 19.0	2.012	3.003	3.8	20.6
9 28	23 3.80	- 3 57.2	2.086	3.048	6.3	19.8	9 28	23 4.12	+ 5 4.4	2.041	3.007	6.2	20.7
10 8	22 58.44	- 4 49.9	2.136	3.037	9.7	20.0	10 8	22 59.04	+ 3 50.5	2.098	3.011	9.2	20.9
10 18	22 54.79	- 5 31.8	2.210	3.025	12.7	20.2	10 18	22 55.73	+ 2 43.0	2.178	3.016	12.1	21.1
412011	2012 TX ₂₃₀		9 10.5	244°68'	1.4°/9.1	18	111343	2001 X7 ₉₈		9 10.5	329°18'	2.7°/12.6	18
8 9	23 37.79	- 6 1.1	1.919	2.803	12.3	21.5	8 9	23 34.47	+ 2 39.1	1.478	2.355	15.7	18.6
8 19	23 32.71	- 6 47.4	1.845	2.795	8.8	21.3	8 19	23 30.91	+ 2 40.8	1.390	2.330	12.0	18.3
8 29	23 25.81	- 7 42.6	1.795	2.786	5.0	21.0	8 29	23 25.08	+ 2 24.6	1.323	2.305	7.8	18.0
9 8	23 17.75	- 8 41.4	1.771	2.777	1.5	20.8	9 8	23 17.66	+ 1 52.4	1.279	2.281	3.6	17.7
9 18	23 9.37	- 9 37.4	1.775	2.768	4.1	20.9	9 18	23 9.63	+ 1 8.8	1.260	2.258	3.9	17.6
9 28	23 1.64	-10 24.5	1.807	2.758	8.1	21.2	9 28	23 2.21	+ 0 20.9	1.265	2.236	8.5	17.8
10 8	22 55.41	-10 58.2	1.864	2.748	11.8	21.4	10 8	22 56.54	+ 0 23.7	1.293	2.215	13.1	18.1
10 18	22 51.26	-11 16.2	1.942	2.739	14.9	21.6	10 18	22 53.44	- 0 58.3	1.342	2.195	17.3	18.3
272428	2005 TH ₁₅₁		9 10.5	201°06'	1.9°/8.6	18	164016	2003 UK ₂₀₄		9 10.5	265°15'	3.4°/14.1	18
8 9	23 39.57	- 7 22.8	1.877	2.762	12.5	21.5	8 9	23 35.65	+ 8 14.3	1.983	2.818	14.0	20.2
8 19	23 33.99	- 8 14.8	1.809	2.759	8.9	21.3	8 19	23 31.23	+ 7 44.7	1.891	2.803	11.0	20.0
8 29	23 26.53	- 9 14.7	1.765	2.756	5.0	21.1	8 29	23 25.02	+ 6 54.7	1.821	2.787	7.5	19.8
9 8	23 17.89	-10 16.4	1.747	2.752	2.0	20.8	9 8	23 17.62	+ 5 46.3	1.777	2.771	4.3	19.5
9 18	23 8.98	-11 13.1	1.758	2.748	4.5	21.0	9 18	23 9.82	+ 4 24.5	1.760	2.754	3.7	19.5
9 28	23 0.80	-11 58.8	1.796	2.743	8.5	21.2	9 28	23 2.54	+ 2 56.1	1.771	2.738	6.8	19.6
10 8	22 54.20	-12 29.5	1.860	2.738	12.1	21.5	10 8	22 56.63	+ 1 29.4	1.808	2.721	10.5	19.8
10 18	22 49.78	-12 43.2	1.944	2.732	15.2	21.7	10 18	22 52.72	+ 0 11.2	1.870	2.704	13.9	20.0
314597	2006 AP ₇₄		9 10.5	195°98'	1.3°/8.9	18	12868	Onken		9 10.5	7°29'	10.4°/21.3	18 R
8 9	23 38.31	- 8 37.1	2.899	3.771	9.0	21.0	8 9	23 31.09	+21 15.5	1.422	2.217	20.4	16.3
8 19	23 32.49	- 8 56.1	2.824	3.768	6.4	20.8	8 19	23 28.41	+21 58.9	1.360	2.220	17.7	16.1
8 29	23 25.44	- 9 18.4	2.776	3.765	3.6	20.6	8 29	23 23.57	+22 8.5	1.314	2.224	14.7	16.0
9 8	23 17.66	- 9 40.8	2.757	3.762	1.3	20.5	9 8	23 17.34	+21 42.2	1.288	2.230	12.1	15.8
9 18	23 9.71	-10 0.2	2.768	3.758	3.1	20.6	9 18	23 10.76	+20 41.8	1.282	2.238	10.5	15.8
9 28	23 2.23	-10 13.6	2.809	3.754	5.9	20.8	9 28	23 5.04	+19 14.0	1.298	2.247	10.8	15.8
10 8	22 55.81	-10 19.1	2.877	3.749	8.5	21.0	10 8	23 1.19	+17 30.4	1.337	2.258	12.8	16.0
10 18	22 50.84	-10 15.3	2.970	3.744	10.8	21.1	10 18	22 59.84	+15 42.9	1.398	2.271	15.5	16.2
396709	2002 VZ ₃₉		9 10.5	326°02'	2.7°/12.4	18	157655	2005 YW ₃₂		9 10.5	7°21'	0.5°/10.8	18
8 9	23 34.86	+ 2 6.3	1.346	2.230	16.5	20.0	8 9	23 31.65	- 1 14.8	0.776	1.701	20.7	19.0
8 19	23 31.49	+ 2 12.7	1.251	2.194	12.7	19.6	8 19	23 29.69	- 1 38.8	0.733	1.701	15.3	18.7
8 29	23 25.59	+ 2 0.3	1.176	2.159	8.2	19.3	8 29	23 24.60	- 2 26.9	0.707	1.703	8.9	18.4
9 8	23 17.78	+ 1 31.0	1.123	2.125	3.7	18.9	9 8	23 17.56	- 3 30.6	0.700	1.706	2.1	18.0
9 18	23 9.11	+ 0 49.0	1.094	2.092	4.2	18.9	9 18	23 10.18	- 4 38.1	0.712	1.712	5.0	18.3
9 28	23 0.98	+ 0 1.7	1.088	2.060	9.3	19.1	9 28	23 4.24	- 5 36.2	0.744	1.720	11.5	18.6
10 8	22 54.73	- 0 42.1	1.105	2.029	14.6	19.3	10 8	23 1.09	- 6 15.1	0.794	1.730	17.2	19.0
10 18	22 51.35	- 1 15.2	1.141	2.000	19.2	19.5	10 18	23 1.38	- 6 30.0	0.861	1.741	21.9	19.3
511859	2015 FA ₃₉₇		9 10.5	138°66'	2.8°/7.7	18	412900	2014 QV ₉₅		9 10.5	117°21'	4.7°/15.8	18
8 9	23 40.05	-10 28.9	1.903	2.792	12.1	21.4	8 9	23 37.24	+11 31.0	2.427	3.231	12.7	20.9
8 19	23 34.20	-11 21.1	1.848	2.800	8.6	21.2	8 19	23 32.00	+11 49.7	2.349	3.234	10.2	20.8
8 29	23 26.57	-12 17.3	1.818	2.808	5.0	21.0	8 29	23 25.29	+11 52.1	2.294	3.236	7.6	20.6
9 8	23 17.90	-13 11.3	1.815	2.816	2.8	20.8	9 8	23 17.67	+11 38.9	2.264	3.239	5.4	20.5
9 18	23 9.08	-13 56.9	1.839	2.823	5.2	21.0	9 18	23 9.81	+11 11.9	2.262	3.242	4.7	20.4
9 28	23 1.09	-14 29.0	1.891	2.830	8.7	21.2	9 28	23 2.47	+10 34.9	2.288	3.244	6.3	20.5
10 8	22 54.72	-14 45.0	1.968	2.836	12.0	21.5	10 8	22 56.34	+ 9 52.8	2.341	3.247	8.7	20.7
10 18	22 50.49	-14 44.3	2.065	2.842	14.8	21.7	10 18	22 51.91	+ 9 10.6	2.418	3.250	11.2	20.9
407623	2011 CU ₄₇		9 10.5	264°89'	2.8°/6.6	18	332282	2006 SX ₃₄₂		9 10.5	70°61'	0.3°/10.8	18
8 9	23 34.38	-11 4.6											

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
225636	2001 <i>FD</i> ₅₉		9 10.5 201°67	1.4/ 9.1	17		188181	2002 <i>JH</i> ₁₀₈		9 10.5 52°62	3°5/ 6.3	18	R
8 9	23 42.99	- 9 59.9	2.683	3.552	9.7	20.3	8 9	23 33.95	-10 23.0	1.926	2.824	11.6	19.1
8 19	23 35.93	-10 1.7	2.606	3.549	7.0	20.1	8 19	23 29.79	-12 4.2	1.884	2.841	8.1	18.9
8 29	23 27.44	-10 5.3	2.557	3.545	4.0	20.0	8 29	23 24.05	-13 49.6	1.868	2.859	4.8	18.8
9 8	23 18.10	-10 7.7	2.537	3.541	1.5	19.8	9 8	23 17.43	-15 31.1	1.879	2.876	3.5	18.7
9 18	23 8.59	-10 6.3	2.547	3.537	3.3	19.9	9 18	23 10.72	-17 0.7	1.919	2.894	5.8	18.9
9 28	22 59.65	- 9 58.6	2.588	3.533	6.4	20.1	9 28	23 4.74	-18 12.3	1.985	2.912	9.0	19.1
10 8	22 51.95	- 9 43.1	2.657	3.528	9.2	20.3	10 8	23 0.20	-19 2.6	2.075	2.931	12.0	19.3
10 18	22 45.94	- 9 19.2	2.751	3.523	11.6	20.4	10 18	22 57.54	-19 30.9	2.187	2.949	14.5	19.6
53677	2000 <i>DE</i> ₇₅		9 10.5 263°14	1°0/11.4	18		178996	2001 <i>RY</i> ₅		9 10.5 271°79	9°0/13.8	17	
8 9	23 39.10	+ 0 19.4	1.657	2.528	14.6	20.2	8 9	23 52.25	+ 8 24.8	1.139	1.985	21.4	19.9
8 19	23 34.02	- 0 7.9	1.573	2.513	10.9	20.0	8 19	23 44.76	+10 17.7	1.063	1.974	17.5	19.6
8 29	23 26.75	- 0 51.4	1.512	2.497	6.5	19.7	8 29	23 33.53	+11 52.5	1.005	1.962	13.2	19.3
9 8	23 18.01	- 1 46.8	1.476	2.481	2.0	19.4	9 8	23 19.51	+13 2.9	0.970	1.951	9.7	19.1
9 18	23 8.76	- 2 48.3	1.466	2.465	3.5	19.4	9 18	23 4.33	+13 44.7	0.959	1.939	9.4	19.1
9 28	23 0.18	- 3 48.2	1.484	2.448	8.2	19.7	9 28	22 50.14	+13 59.3	0.971	1.927	12.7	19.2
10 8	22 53.30	- 4 39.4	1.526	2.431	12.6	19.9	10 8	22 38.84	+13 54.6	1.006	1.915	17.1	19.4
10 18	22 48.85	- 5 17.0	1.589	2.414	16.4	20.1	10 18	22 31.61	+13 40.7	1.058	1.903	21.4	19.7
91760	1999 <i>TX</i> ₁₉₁		9 10.5 343°31	2°4/12.8	18		342460	2008 <i>UE</i> ₁₁₆		9 10.5 321°23	0°8/11.1	18	
8 9	23 37.78	+ 3 0.5	2.021	2.875	13.0	19.3	8 9	23 39.01	- 1 35.3	1.552	2.432	14.9	20.8
8 19	23 32.62	+ 3 8.4	1.946	2.872	9.9	19.1	8 19	23 33.96	- 1 43.6	1.480	2.425	11.0	20.6
8 29	23 25.73	+ 3 3.2	1.894	2.870	6.4	18.9	8 29	23 26.70	- 2 5.0	1.430	2.417	6.5	20.3
9 8	23 17.78	+ 2 46.8	1.868	2.867	3.1	18.7	9 8	23 18.02	- 2 35.8	1.405	2.411	1.8	20.0
9 18	23 9.54	+ 2 22.3	1.869	2.865	3.2	18.7	9 18	23 8.94	- 3 10.4	1.405	2.404	3.5	20.1
9 28	23 1.93	+ 1 54.3	1.898	2.863	6.6	18.9	9 28	23 0.68	- 3 42.7	1.432	2.398	8.3	20.4
10 8	22 55.74	+ 1 27.7	1.953	2.862	10.1	19.1	10 8	22 54.25	- 4 7.0	1.483	2.392	12.7	20.6
10 18	22 51.53	+ 1 6.5	2.031	2.860	13.1	19.3	10 18	22 50.33	- 4 19.4	1.555	2.386	16.4	20.8
186819	2004 <i>FQ</i> ₂₃		9 10.5 83°01	0°3/10.8	17		288015	2003 <i>UC</i> ₂₁₁		9 10.5 271°44	5°3/16.0	18	
8 9	23 39.28	- 0 48.3	1.494	2.374	15.4	20.7	8 9	23 36.21	+12 41.0	1.946	2.758	15.0	20.7
8 19	23 33.96	- 1 32.1	1.444	2.389	11.2	20.5	8 19	23 31.72	+12 37.2	1.854	2.744	12.3	20.5
8 29	23 26.55	- 2 31.2	1.415	2.403	6.5	20.3	8 29	23 25.36	+12 10.9	1.783	2.730	9.2	20.2
9 8	23 17.93	- 3 39.2	1.412	2.418	1.4	20.0	9 8	23 17.76	+11 22.6	1.737	2.715	6.3	20.1
9 18	23 9.18	- 4 48.3	1.435	2.432	3.6	20.2	9 18	23 9.71	+10 15.4	1.716	2.701	5.4	20.0
9 28	23 1.45	- 5 50.6	1.484	2.447	8.4	20.5	9 28	23 2.21	+ 8 55.4	1.723	2.686	7.4	20.1
10 8	22 55.66	- 6 39.6	1.557	2.461	12.5	20.8	10 8	22 56.13	+ 7 30.6	1.756	2.671	10.6	20.2
10 18	22 52.33	- 7 12.0	1.652	2.475	16.0	21.0	10 18	22 52.13	+ 6 9.2	1.812	2.656	13.9	20.4
311868	2006 <i>WA</i> ₇₉		9 10.5 33°70	5°9/16.2	18		243496	2009 <i>UV</i> ₁₀₅		9 10.5 327°01	3°6/18.4	17	
8 9	23 36.35	+12 13.7	1.655	2.481	16.7	20.3	8 9	23 28.84	+16 56.9	4.409	5.161	8.2	20.8
8 19	23 31.82	+12 28.6	1.595	2.492	13.5	20.1	8 19	23 25.50	+16 46.7	4.318	5.160	6.8	20.6
8 29	23 25.35	+12 19.5	1.555	2.504	10.0	19.9	8 29	23 21.42	+16 24.9	4.250	5.159	5.4	20.5
9 8	23 17.70	+11 47.6	1.538	2.516	7.0	19.8	9 8	23 16.91	+15 52.3	4.208	5.157	4.1	20.5
9 18	23 9.83	+10 56.5	1.546	2.529	6.0	19.7	9 18	23 12.29	+15 10.1	4.194	5.156	3.6	20.4
9 28	23 2.80	+ 9 52.8	1.579	2.542	7.9	19.9	9 28	23 7.92	+14 20.7	4.208	5.155	4.1	20.5
10 8	22 57.48	+ 8 45.0	1.637	2.556	11.0	20.1	10 8	23 4.13	+13 26.9	4.252	5.153	5.3	20.5
10 18	22 54.43	+ 7 40.8	1.718	2.570	14.1	20.3	10 18	23 1.21	+12 31.9	4.322	5.152	6.7	20.6
139820	2001 <i>RD</i> ₂₈		9 10.5 56°62	0°7/11.2	18		96020	2004 <i>PL</i> ₉		9 10.5 346°91	0°7/11.3	18	
8 9	23 36.99	- 0 35.2	1.879	2.750	13.1	20.0	8 9	23 32.31	+ 1 9.7	1.737	2.614	13.7	19.4
8 19	23 32.08	- 1 1.8	1.813	2.753	9.6	19.8	8 19	23 28.90	+ 0 16.6	1.665	2.608	10.1	19.1
8 29	23 25.43	- 1 40.9	1.770	2.756	5.7	19.6	8 29	23 23.72	- 0 53.6	1.615	2.602	6.0	18.9
9 8	23 17.71	- 2 28.5	1.754	2.759	1.5	19.3	9 8	23 17.41	- 2 15.6	1.591	2.597	1.7	18.6
9 18	23 9.78	- 3 19.1	1.765	2.763	3.0	19.4	9 18	23 10.81	- 3 42.2	1.594	2.592	3.1	18.7
9 28	23 2.57	- 4 6.8	1.803	2.766	7.1	19.7	9 28	23 4.86	- 5 5.1	1.623	2.589	7.5	19.0
10 8	22 56.86	- 4 46.4	1.867	2.769	10.8	19.9	10 8	23 0.40	- 6 16.9	1.678	2.586	11.5	19.2
10 18	22 53.20	- 5 14.2	1.953	2.773	14.0	20.2	10 18	22 57.99	- 7 12.6	1.754	2.583	14.9	19.4
72322	2001 <i>BB</i> ₄₉		9 10.5 134°79	6°3/17.5	18		158067	2000 <i>UF</i> ₅		9 10.5 9°12	5°5/ 6.6	18	
8 9	23 38.81	+16 1.3	2.102	2.886	15.0	19.3	8 9	23 39.48	-15 17.8	1.295	2.207	15.1	18.8
8 19	23 33.32	+16 14.9	2.030	2.895	12.4	19.2	8 19	23 34.49	-16 6.2	1.247	2.208	11.0	18.6
8 29	23 26.12	+16 6.5	1.978	2.903	9.7	19.0	8 29	23 27.02	-16 54.5	1.221	2.210	7.1	18.4
9 8	23 17.86	+15 36.1	1.950	2.911	7.3	18.9	9 8	23 18.09	-17 33.5	1.218	2.213	5.5	18.3
9 18	23 9.35	+14 46.1	1.949	2.919	6.3	18.9	9 18	23 8.96	-17 55.5	1.239	2.216	8.1	18.5
9 28	23 1.51	+13 41.9	1.975	2.927	7.5	18.9	9 28	23 1.03	-17 55.6	1.283	2.221	12.1	18.7
10 8	22 55.13	+12 30.3	2.027	2.934	9.9	19.1	10 8	22 55.34	-17 32.9	1.349	2.226	15.9	19.0
10 18	22 50.75	+11 18.7	2.103	2.940	12.5	19.3	10 18	22 52.49	-16 49.1	1.433	2.232	19.2	19.2
71245	2000 <i>AE</i> ₁₀		9 10.5 13°92	10°8/ 1.9	18		118496	2000 <i>DA</i> ₃₄		9 10.5 80°06	0°8/11.2	18	
8 9	23 43.05	-29 56.6	1.462	2.356	14.8	17.9	8 9	23 41.07	- 0 29.5	1.492	2.368	15.6	20.2
8 19	23 36.94	-31 7.4	1.427	2.358	12.4	17.8	8 19	23 35.23	- 0 56.3	1.444	2.387	11.4	20.0
8 29	23 28.31	-32 1.8	1.413	2.361	10.9	17.7	8 29	23 27.27	- 1 37.9	1.418	2.405	6.7	19.8
9 8	23 18.28	-32 30.1	1.422	2.365	11.1	17.7	9 8	23 18.12	- 2 28.8	1.417	2.423	1.8	19.5
9 18	23 8.22	-32 26.2	1.453	2.369	12.8	17.8	9 18	23 8.89	- 3 22.3	1.443	2.441	3.5	19.7
9 28	22 59.53	-31 48.9	1.507	2.373	15.3	18.0	9 28	23 0.75	- 4 11.1	1.495	2.459	8.2	20.0
10 8	22 53.24	-30 41.9	1.579	2.378	17.8	18.2	10 8	22 54.60	- 4 49.4	1.572	2.477	12.3	20.3
10 18	22 49.86	-29 11.1	1.669	2.384	20.0	18.4	10 18	22 50.97	- 5 13.8	1.669	2.495	15.7	20.6
449004	2012 <i>BY</i> ₅₉		9 10.5 220°48	2°7/13.3	18		291078	2005 <i>YM</i> ₁₂₀ </					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
518613	2008 <i>AV</i> ₁₃₈		9 10.5 106°66	0°6/11.4	18		97430	2000 <i>AZ</i> ₂₀₂		9 10.5 259°15	4°5/16.5	18	
8 9	23 32.86	- 0 41.0	3.131	3.988	8.8	21.7	8 9	23 34.63	+13 32.2	2.684	3.474	11.9	20.3
8 19	23 28.55	- 1 3.4	3.060	3.992	6.4	21.5	8 19	23 30.16	+13 23.7	2.582	3.457	9.8	20.1
8 29	23 23.22	- 1 33.2	3.013	3.997	3.8	21.4	8 29	23 24.32	+12 57.9	2.504	3.440	7.4	19.9
9 8	23 17.29	- 2 8.0	2.996	4.001	1.1	21.2	9 8	23 17.58	+12 15.4	2.450	3.422	5.3	19.8
9 18	23 11.24	- 2 44.9	3.007	4.005	2.0	21.2	9 18	23 10.52	+11 18.5	2.424	3.404	4.5	19.7
9 28	23 5.59	- 3 20.6	3.048	4.009	4.7	21.4	9 28	23 3.84	+10 11.3	2.427	3.385	5.9	19.7
10 8	23 0.80	- 3 52.0	3.117	4.013	7.2	21.6	10 8	22 58.16	+ 8 59.2	2.458	3.366	8.3	19.9
10 18	22 57.23	- 4 16.7	3.211	4.017	9.4	21.8	10 18	22 53.99	+ 7 48.0	2.514	3.347	10.8	20.0
252704	2002 <i>CT</i> ₉₉		9 10.5 194°88	0°5/10.2	18		303109	2004 <i>BR</i> ₁₄₃		9 10.5 306°80	0°2/10.4	16	
8 9	23 44.12	- 4 57.7	1.444	2.329	15.5	20.1	8 9	23 37.42	- 3 9.2	1.782	2.663	13.2	21.5
8 19	23 37.74	- 5 9.1	1.379	2.328	11.3	19.8	8 19	23 32.58	- 3 37.3	1.710	2.656	9.6	21.2
8 29	23 28.89	- 5 30.7	1.337	2.327	6.4	19.6	8 29	23 25.84	- 4 16.6	1.661	2.650	5.5	21.0
9 8	23 18.49	- 5 57.5	1.320	2.326	1.3	19.2	9 8	23 17.90	- 5 2.5	1.637	2.644	1.1	20.6
9 18	23 7.75	- 6 23.5	1.329	2.325	4.2	19.4	9 18	23 9.64	- 5 49.3	1.641	2.638	3.5	20.8
9 28	22 58.05	- 6 42.6	1.364	2.324	9.3	19.7	9 28	23 2.08	- 6 30.9	1.672	2.632	7.8	21.1
10 8	22 50.49	- 6 50.4	1.423	2.322	13.7	20.0	10 8	22 56.10	- 7 2.2	1.727	2.626	11.7	21.3
10 18	22 45.76	- 6 44.7	1.502	2.320	17.5	20.2	10 18	22 52.30	- 7 20.0	1.804	2.621	15.1	21.5
242659	2005 <i>QB</i> ₆₃		9 10.5 299°41	0°5/10.1	18		328821	2009 <i>VN</i> ₁₀₇		9 10.5 288°14	0°9/11.5	18	
8 9	23 40.23	- 5 40.9	1.992	2.869	12.2	20.3	8 9	23 35.90	- 0 14.1	2.323	3.185	11.3	21.0
8 19	23 34.41	- 5 46.3	1.919	2.864	8.8	20.1	8 19	23 31.17	- 0 29.4	2.235	3.170	8.4	20.8
8 29	23 26.78	- 5 58.4	1.870	2.859	5.0	19.9	8 29	23 24.93	- 0 55.2	2.172	3.155	5.0	20.6
9 8	23 18.04	- 6 13.6	1.848	2.854	1.0	19.6	9 8	23 17.71	- 1 28.8	2.136	3.141	1.6	20.3
9 18	23 9.04	- 6 28.0	1.854	2.850	3.3	19.7	9 18	23 10.18	- 2 6.4	2.128	3.126	2.6	20.4
9 28	23 0.72	- 6 37.5	1.888	2.845	7.3	20.0	9 28	23 3.11	- 2 43.4	2.148	3.111	6.2	20.6
10 8	22 53.92	- 6 39.0	1.948	2.841	10.9	20.2	10 8	22 57.23	- 3 15.6	2.195	3.096	9.5	20.8
10 18	22 49.20	- 6 30.6	2.030	2.836	14.0	20.4	10 18	22 53.05	- 3 39.5	2.266	3.082	12.4	21.0
98811	2000 <i>YS</i> ₁₁₉		9 10.5 256°36	9°3/31.5	18		99459	2002 <i>CO</i> ₆₂		9 10.5 326°60	5°3/5.3	18	
8 9	23 40.58	-28 0.9	1.803	2.693	12.6	19.5	8 9	23 38.78	-18 44.5	1.987	2.884	11.4	19.5
8 19	23 35.01	-29 38.0	1.754	2.685	10.5	19.3	8 19	23 33.38	-19 36.4	1.930	2.880	8.5	19.3
8 29	23 27.26	-31 4.7	1.729	2.676	9.3	19.2	8 29	23 26.20	-20 25.4	1.897	2.877	6.0	19.2
9 8	23 18.15	-32 11.2	1.728	2.667	9.7	19.3	9 8	23 17.96	-21 5.0	1.891	2.874	5.4	19.1
9 18	23 8.77	-32 50.4	1.752	2.658	11.5	19.3	9 18	23 9.54	-21 29.6	1.911	2.871	7.3	19.2
9 28	23 0.30	-32 58.7	1.799	2.649	13.9	19.5	9 28	23 1.89	-21 35.6	1.957	2.869	10.1	19.4
10 8	22 53.72	-32 37.1	1.865	2.640	16.3	19.6	10 8	22 55.80	-21 22.0	2.027	2.866	12.9	19.6
10 18	22 49.66	-31 49.3	1.949	2.631	18.5	19.8	10 18	22 51.81	-20 50.2	2.117	2.864	15.4	19.8
343681	2010 <i>VN</i> ₁₉₉		9 10.5 292°06	1°1/8.4	17		43381	2000 <i>WQ</i> ₄₇		9 10.5 145°42	0°7/9.9	18	
8 9	23 29.62	- 8 45.8	4.178	5.056	6.3	20.2	8 9	23 40.32	- 3 1.5	1.609	2.490	14.4	19.6
8 19	23 26.06	- 9 18.4	4.101	5.049	4.5	20.1	8 19	23 34.73	- 3 55.8	1.550	2.497	10.4	19.4
8 29	23 21.76	- 9 53.6	4.051	5.041	2.5	19.9	8 29	23 27.07	- 5 3.2	1.514	2.504	5.9	19.2
9 8	23 17.01	-10 29.1	4.030	5.034	1.1	19.8	9 8	23 18.15	- 6 16.9	1.503	2.510	1.2	18.9
9 18	23 12.15	-11 2.4	4.039	5.027	2.4	19.9	9 18	23 9.02	- 7 29.3	1.520	2.516	4.0	19.1
9 28	23 7.54	-11 31.1	4.078	5.020	4.3	20.0	9 28	23 0.79	- 8 32.4	1.564	2.521	8.6	19.4
10 8	23 3.55	-11 53.5	4.144	5.013	6.2	20.2	10 8	22 54.41	- 9 20.4	1.633	2.526	12.7	19.6
10 18	23 0.45	-12 8.2	4.235	5.006	7.9	20.3	10 18	22 50.45	- 9 50.5	1.723	2.531	16.1	19.9
130417	2000 <i>OR</i> ₅₈		9 10.5 196°37	1°9/8.9	18		221911	2008 <i>QX</i> ₄₁		9 10.5 279°33	0°2/10.9	17	
8 9	23 40.52	- 5 59.6	1.456	2.348	15.0	19.5	8 9	23 28.99	- 1 55.0	4.410	5.268	6.4	20.1
8 19	23 35.12	- 6 56.9	1.394	2.347	10.7	19.3	8 19	23 25.59	- 2 21.5	4.331	5.265	4.7	20.0
8 29	23 27.40	- 8 5.8	1.354	2.346	6.0	19.0	8 29	23 21.49	- 2 53.0	4.278	5.263	2.7	19.8
9 8	23 18.20	- 9 18.5	1.339	2.344	2.0	18.7	9 8	23 16.99	- 3 27.7	4.254	5.260	0.7	19.7
9 18	23 8.68	-10 26.3	1.350	2.343	5.1	18.9	9 18	23 12.39	- 4 3.4	4.261	5.258	1.5	19.7
9 28	23 0.10	-11 21.0	1.388	2.340	9.9	19.2	9 28	23 8.03	- 4 37.7	4.297	5.256	3.5	19.9
10 8	22 53.54	-11 57.1	1.448	2.338	14.2	19.5	10 8	23 4.24	- 5 8.6	4.362	5.253	5.4	20.0
10 18	22 49.66	-12 12.5	1.529	2.335	17.8	19.7	10 18	23 1.27	- 5 34.3	4.453	5.251	7.1	20.2
523591	2001 <i>QD</i> ₂₉₈		9 10.5 65°52	0°1/8.3	17		428498	2007 <i>VO</i> ₃₃₀		9 10.5 339°11	7°2/15.4	17	
8 9	23 18.09	-10 3.8	41.111	41.990	0.7	22.7	8 9	23 37.03	+10 15.0	1.129	1.990	20.6	20.9
8 19	23 17.44	-10 8.4	41.043	41.991	0.5	22.7	8 19	23 33.28	+10 53.1	1.060	1.981	16.7	20.6
8 29	23 16.73	-10 13.2	41.002	41.993	0.3	22.6	8 29	23 26.69	+11 2.4	1.009	1.973	12.4	20.3
9 8	23 15.98	-10 18.0	40.991	41.994	0.1	22.6	9 8	23 18.14	+10 41.7	0.978	1.965	8.4	20.1
9 18	23 15.23	-10 22.6	41.009	41.996	0.3	22.6	9 18	23 8.96	+ 9 54.0	0.969	1.958	7.4	20.0
9 28	23 14.50	-10 26.8	41.056	41.997	0.5	22.7	9 28	23 0.74	+ 8 47.6	0.982	1.953	10.4	20.2
10 8	23 13.81	-10 30.5	41.131	41.999	0.7	22.7	10 8	22 54.90	+ 7 34.7	1.017	1.948	14.8	20.4
10 18	23 13.20	-10 33.5	41.232	42.000	0.9	22.7	10 18	22 52.28	+ 6 26.4	1.070	1.944	19.1	20.7
393611	2003 <i>XN</i> ₂₈		9 10.5 246°74	6°9/17.7	16		186624	2003 <i>FL</i> ₉₆		9 10.5 21°77	0°3/10.8	18	
8 9	23 37.30	+16 33.6	1.972	2.759	15.7	21.2	8 9	23 36.13	- 2 1.7	1.598	2.483	14.3	19.7
8 19	23 32.47	+16 51.1	1.889	2.755	13.2	21.1	8 19	23 31.68	- 2 23.6	1.543	2.491	10.4	19.5
8 29	23 25.78	+16 45.1	1.827	2.751	10.4	20.9	8 29	23 25.30	- 2 57.9	1.510	2.499	6.0	19.3
9 8	23 17.88	+16 14.9	1.787	2.747	7.9	20.7	9 8	23 17.79	- 3 40.0	1.501	2.508	1.4	19.0
9 18	23 9.60	+15 22.7	1.773	2.742	6.9	20.6	9 18	23 10.11	- 4 23.8	1.519	2.517	3.4	19.1
9 28	23 1.93	+14 13.5	1.785	2.738	8.1	20.7	9 28	23 3.29	- 5 3.0	1.563	2.528	7.8	19.4
10 8	22 55.73	+12 55.2	1.823	2.733	10.6	20.9	10 8	22 58.18	- 5 32.4	1.631	2.538	11.8	19.7
10 18	22 51.64	+11 35.7	1.884	2.729	13.4	21.0	10 18	22 55.33	- 5 48.8	1.720	2.550	15.1	19.9
195592	2002 <i>JW</i> ₁₂₉		9 10.5 212°95	2°7/7.5	18		414356	200					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
236760	2007 <i>NF</i> ₄		9 10.5	17°77'	11°7'	2.6 18	189604	2000 <i>XE</i> ₁₇		9 10.5	340°58'	12°0'	17.8 18
8 9	23 43.99	-30 25.0	1.284	2.182	16.1	18.6	8 9	23 36.05	+16 35.9	1.191	2.020	21.7	17.9
8 19	23 37.82	-31 28.7	1.253	2.187	13.5	18.5	8 19	23 32.72	+18 19.2	1.114	2.001	18.8	17.6
8 29	23 28.91	-32 13.4	1.244	2.194	11.9	18.4	8 29	23 26.52	+19 35.2	1.054	1.983	15.7	17.4
9 8	23 18.52	-32 28.7	1.255	2.201	12.0	18.4	9 8	23 18.18	+20 17.4	1.012	1.967	13.0	17.2
9 18	23 8.21	-32 8.8	1.289	2.210	13.7	18.6	9 18	23 8.93	+20 22.3	0.990	1.952	12.0	17.1
9 28	22 59.50	-31 13.8	1.343	2.219	16.2	18.7	9 28	23 0.42	+19 52.6	0.989	1.940	13.2	17.1
10 8	22 53.46	-29 48.8	1.417	2.229	18.8	19.0	10 8	22 54.17	+18 57.7	1.008	1.929	16.0	17.2
10 18	22 50.55	-28 0.8	1.507	2.240	21.1	19.2	10 18	22 51.24	+17 49.7	1.045	1.919	19.4	17.4
208118	2000 <i>CM</i> ₁₁₉		9 10.5	241°40'	3°5'	12.8 18	144264	2004 <i>CF</i> ₉₅		9 10.5	279°93'	0°5'	11.0 18
8 9	23 50.60	+ 3 27.7	2.135	2.960	13.5	20.1	8 9	23 36.20	- 0 35.9	1.903	2.775	12.9	20.1
8 19	23 42.01	+ 4 24.4	2.042	2.950	10.4	19.9	8 19	23 31.64	- 1 12.7	1.827	2.767	9.5	19.8
8 29	23 31.27	+ 5 11.2	1.975	2.940	7.1	19.6	8 29	23 25.31	- 2 3.1	1.774	2.760	5.6	19.6
9 8	23 19.07	+ 5 47.7	1.936	2.929	4.1	19.4	9 8	23 17.84	- 3 2.4	1.747	2.753	1.4	19.3
9 18	23 6.36	+ 6 14.1	1.928	2.918	4.2	19.4	9 18	23 10.07	- 4 5.1	1.747	2.745	3.1	19.4
9 28	22 54.27	+ 6 32.3	1.951	2.907	7.3	19.6	9 28	23 2.91	- 5 4.5	1.775	2.738	7.2	19.7
10 8	22 43.78	+ 6 45.4	2.003	2.896	10.7	19.8	10 8	22 57.21	- 5 54.6	1.829	2.731	11.1	19.9
10 18	22 35.63	+ 6 57.2	2.080	2.884	13.8	20.0	10 18	22 53.53	- 6 31.6	1.905	2.723	14.3	20.1
97967	2000 <i>QP</i> ₁₄₆		9 10.5	287°20'	4°2'	7.5 18	100338	1995 <i>ST</i> ₃₉		9 10.5	269°71'	0°5'	10.1 18
8 9	23 41.63	-11 46.7	1.326	2.231	15.3	19.2	8 9	23 39.76	- 5 17.1	2.090	2.965	11.8	19.9
8 19	23 36.27	-12 36.6	1.260	2.219	11.1	18.9	8 19	23 34.06	- 5 27.0	2.013	2.957	8.6	19.7
8 29	23 28.24	-13 32.1	1.216	2.208	6.7	18.6	8 29	23 26.64	- 5 43.9	1.960	2.949	4.9	19.4
9 8	23 18.46	-14 24.3	1.196	2.196	4.2	18.5	9 8	23 18.12	- 6 4.3	1.934	2.940	1.0	19.1
9 18	23 8.20	-15 4.4	1.200	2.185	7.1	18.6	9 18	23 9.31	- 6 24.1	1.936	2.932	3.2	19.3
9 28	22 58.94	-15 25.2	1.229	2.174	11.8	18.9	9 28	23 1.12	- 6 39.3	1.967	2.924	7.1	19.5
10 8	22 51.93	-15 23.4	1.280	2.162	16.2	19.1	10 8	22 54.35	- 6 46.4	2.024	2.916	10.6	19.7
10 18	22 47.92	-14 59.2	1.349	2.151	20.0	19.3	10 18	22 49.56	- 6 43.5	2.103	2.907	13.7	19.9
52230	1978 <i>NR</i>		9 10.5	76°39'	3°5'	13.3 18	69258	1981 <i>UJ</i> ₂₂		9 10.6	321°01'	3°3'	7.4 18
8 9	23 41.98	+ 4 56.9	1.494	2.350	16.7	18.8	8 9	23 35.41	-11 21.8	1.836	2.735	12.0	19.2
8 19	23 36.00	+ 5 4.7	1.440	2.365	12.8	18.6	8 19	23 31.24	-12 10.2	1.755	2.712	8.7	19.0
8 29	23 27.81	+ 4 53.3	1.407	2.380	8.4	18.4	8 29	23 25.16	-13 3.9	1.698	2.689	5.2	18.7
9 8	23 18.33	+ 4 25.1	1.398	2.396	4.4	18.2	9 8	23 17.83	-13 56.3	1.667	2.667	3.3	18.6
9 18	23 8.68	+ 3 45.1	1.415	2.411	4.2	18.2	9 18	23 10.09	-14 41.0	1.662	2.645	5.7	18.7
9 28	23 0.09	+ 3 0.1	1.459	2.426	8.0	18.5	9 28	23 2.93	-15 11.9	1.684	2.624	9.4	18.8
10 8	22 53.52	+ 2 17.5	1.526	2.441	12.0	18.8	10 8	22 57.27	-15 25.4	1.728	2.603	13.1	19.0
10 18	22 49.54	+ 1 42.8	1.616	2.456	15.5	19.0	10 18	22 53.75	-15 20.2	1.794	2.583	16.2	19.2
149345	2002 <i>VB</i> ₁₂₁		9 10.5	335°75'	0°7'	10.9 18	264066	2009 <i>SR</i> ₁₃₆		9 10.6	327°13'	0°3'	10.0 17
8 9	23 40.11	- 3 4.9	1.210	2.106	17.1	19.3	8 9	23 30.29	- 4 50.3	3.870	4.739	7.0	20.5
8 19	23 35.31	- 2 56.4	1.142	2.095	12.7	19.0	8 19	23 26.62	- 5 12.5	3.790	4.732	5.0	20.4
8 29	23 27.76	- 3 1.1	1.094	2.085	7.5	18.7	8 29	23 22.14	- 5 39.1	3.737	4.725	2.8	20.2
9 8	23 18.38	- 3 14.9	1.069	2.076	1.8	18.4	9 8	23 17.17	- 6 7.9	3.712	4.719	0.6	20.0
9 18	23 8.46	- 3 32.4	1.068	2.067	4.2	18.5	9 18	23 12.08	- 6 36.4	3.717	4.712	1.9	20.1
9 28	22 59.55	- 3 46.9	1.091	2.060	9.8	18.8	9 28	23 7.27	- 7 2.4	3.752	4.706	4.2	20.3
10 8	22 52.96	- 3 52.5	1.136	2.053	14.9	19.1	10 8	23 3.12	- 7 23.5	3.814	4.700	6.3	20.5
10 18	22 49.47	- 3 45.7	1.200	2.048	19.2	19.3	10 18	22 59.93	- 7 38.2	3.902	4.694	8.1	20.6
444296	2005 <i>UV</i> ₅₁₇		9 10.5	295°08'	1°7'	8.6 18	68577	2001 <i>YM</i> ₅₉		9 10.6	158°92'	3°1'	7.4 18
8 9	23 34.57	- 6 16.3	2.051	2.938	11.5	21.3	8 9	23 40.47	-11 26.0	1.989	2.877	11.7	19.9
8 19	23 30.33	- 7 20.9	1.981	2.933	8.2	21.1	8 19	23 34.55	-12 21.2	1.932	2.883	8.4	19.7
8 29	23 24.50	- 8 34.2	1.935	2.927	4.6	20.9	8 29	23 26.87	-13 19.7	1.899	2.888	5.0	19.5
9 8	23 17.66	- 9 50.5	1.917	2.922	1.7	20.7	9 8	23 18.16	-14 15.3	1.894	2.893	3.1	19.4
9 18	23 10.57	-11 3.1	1.927	2.917	4.2	20.8	9 18	23 9.28	-15 1.8	1.916	2.897	5.3	19.6
9 28	23 4.07	-12 5.6	1.964	2.911	7.8	21.0	9 28	23 1.18	-15 34.4	1.967	2.901	8.7	19.8
10 8	22 58.89	-12 53.4	2.026	2.906	11.2	21.2	10 8	22 54.64	-15 50.4	2.042	2.904	11.9	20.0
10 18	22 55.57	-13 24.1	2.111	2.901	14.1	21.4	10 18	22 50.18	-15 49.5	2.138	2.907	14.6	20.2
254268	2004 <i>RB</i> ₁₈₇		9 10.5	306°75'	3°9'	14.4 18	71861	2000 <i>VP</i> ₁₈		9 10.6	331°99'	4°3'	14.0 18
8 9	23 36.80	+ 7 49.0	2.123	2.954	13.3	19.9	8 9	23 35.04	+ 7 30.2	1.188	2.060	19.1	19.2
8 19	23 31.96	+ 7 58.9	2.040	2.947	10.5	19.7	8 19	23 31.68	+ 7 15.3	1.118	2.050	15.0	18.9
8 29	23 25.45	+ 7 52.7	1.979	2.940	7.4	19.5	8 29	23 25.71	+ 6 31.3	1.067	2.042	10.2	18.6
9 8	23 17.87	+ 7 31.4	1.944	2.933	4.6	19.3	9 8	23 17.98	+ 5 20.8	1.036	2.034	5.6	18.4
9 18	23 9.95	+ 6 57.8	1.935	2.926	4.1	19.2	9 18	23 9.72	+ 3 50.9	1.029	2.027	4.9	18.3
9 28	23 2.58	+ 6 16.3	1.955	2.919	6.5	19.4	9 28	23 2.37	+ 2 13.1	1.046	2.020	9.3	18.5
10 8	22 56.53	+ 5 32.7	2.000	2.912	9.7	19.6	10 8	22 57.20	+ 0 40.3	1.085	2.014	14.3	18.8
10 18	22 52.37	+ 4 52.1	2.070	2.906	12.7	19.7	10 18	22 54.99	- 0 37.6	1.143	2.009	18.7	19.1
346516	2008 <i>UR</i> ₁₅₈		9 10.5	329°31'	0°8'	11.1 18	464027	2014 <i>WM</i> ₁₃₃		9 10.6	182°36'	0°6'	11.5 17
8 9	23 39.62	- 2 0.3	1.506	2.388	15.1	19.9	8 9	23 32.26	- 0 22.3	3.735	4.585	7.6	22.4
8 19	23 34.50	- 2 1.4	1.435	2.380	11.2	19.7	8 19	23 28.04	- 0 45.9	3.656	4.585	5.6	22.3
8 29	23 27.10	- 2 15.2	1.385	2.373	6.6	19.4	8 29	23 22.95	- 1 16.2	3.604	4.585	3.3	22.1
9 8	23 18.22	- 2 37.9	1.360	2.366	1.8	19.1	9 8	23 17.35	- 1 50.8	3.580	4.585	1.0	21.9
9 18	23 8.94	- 3 4.4	1.361	2.359	3.6	19.2	9 18	23 11.63	- 2 27.5	3.587	4.585	1.7	22.0
9 28	23 0.49	- 3 28.8	1.388	2.353	8.5	19.5	9 28	23 6.22	- 3 3.3	3.624	4.584	4.0	22.2
10 8	22 53.94	- 3 45.7	1.438	2.348	12.9	19.7	10 8	23 1.51	- 3 35.8	3.689	4.583	6.2	22.3
10 18	22 49.99	- 3 51.3	1.509	2.343	16.7	19.9	10 18	22 57.84	- 4 2.6	3.780	4.581	8.2	22.5
340472	2006 <i>HP</i> ₄₃		9 10.5	248°16'	5°1'	5.9 18	76431	2000 <i>FU</i> ₂₃					

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
478577	2012 <i>TU</i> ₈₅		9 10.6	48°62	7°5/ 6.5	16	320141	2007 <i>EY</i> ₂₁₄		9 10.6	18°68	8°8/ 4.6	18
8 9	23 49.83	-22 50.1	1.373	2.267	15.5	20.6	8 9	23 47.34	-28 59.8	1.726	2.607	13.6	18.5
8 19	23 41.61	-23 9.9	1.340	2.286	11.8	20.5	8 19	23 39.64	-29 22.0	1.686	2.614	11.0	18.4
8 29	23 30.90	-23 18.7	1.330	2.305	8.6	20.3	8 29	23 29.77	-29 29.5	1.668	2.621	9.2	18.3
9 8	23 18.97	-23 9.0	1.344	2.324	7.6	20.3	9 8	23 18.79	-29 15.6	1.676	2.630	8.9	18.3
9 18	23 7.30	-22 36.6	1.383	2.344	9.4	20.5	9 18	23 7.92	-28 36.8	1.709	2.638	10.3	18.4
9 28	22 57.28	-21 41.5	1.448	2.364	12.6	20.7	9 28	22 58.39	-27 33.2	1.766	2.648	12.6	18.6
10 8	22 49.90	-20 27.1	1.534	2.384	15.8	21.0	10 8	22 51.09	-26 8.4	1.846	2.658	15.1	18.8
10 18	22 45.56	-18 58.2	1.640	2.405	18.5	21.2	10 18	22 46.48	-24 27.5	1.946	2.669	17.3	19.0
27273	2000 <i>AT</i> ₃₄		9 10.6	81°51	4°6/14.0	18	6450	Masahikohayashi		9 10.6	42°04	4°3/ 6.9	18
8 9	23 44.48	+ 6 55.3	1.513	2.357	17.1	17.7	8 9	23 36.90	- 9 41.0	1.181	2.094	16.0	16.2
8 19	23 37.79	+ 7 21.8	1.461	2.376	13.3	17.5	8 19	23 32.57	-11 18.3	1.153	2.117	11.3	16.0
8 29	23 28.85	+ 7 28.1	1.429	2.395	9.2	17.3	8 29	23 25.91	-13 1.3	1.148	2.141	6.6	15.9
9 8	23 18.60	+ 7 15.3	1.422	2.414	5.5	17.1	9 8	23 18.01	-14 38.0	1.166	2.166	4.3	15.8
9 18	23 8.21	+ 6 47.4	1.441	2.432	5.0	17.1	9 18	23 10.14	-15 57.4	1.208	2.191	7.3	16.0
9 28	22 58.93	+ 6 10.4	1.486	2.451	8.1	17.4	9 28	23 3.56	-16 52.0	1.274	2.217	11.6	16.4
10 8	22 51.75	+ 5 31.9	1.556	2.469	11.9	17.6	10 8	22 59.21	-17 19.1	1.361	2.243	15.5	16.7
10 18	22 47.23	+ 4 58.0	1.648	2.487	15.3	17.9	10 18	22 57.52	-17 20.1	1.467	2.269	18.6	17.0
397390	2006 <i>VV</i> ₇₆		9 10.6	336°50	10°3/31.7	14 C	162169	1999 <i>GB</i> ₁₄		9 10.6	343°61	4°6/ 8.3	18
8 9	23 40.08	-29 48.8	1.615	2.508	13.7	20.3	8 9	23 42.07	-13 20.6	0.982	1.901	18.0	18.7
8 19	23 34.86	-31 8.5	1.568	2.498	11.6	20.2	8 19	23 37.21	-13 31.0	0.925	1.891	13.2	18.4
8 29	23 27.29	-32 14.6	1.544	2.489	10.4	20.1	8 29	23 29.05	-13 42.8	0.887	1.881	8.0	18.1
9 8	23 18.29	-32 57.2	1.542	2.481	10.8	20.1	9 8	23 18.75	-13 47.2	0.870	1.872	4.6	17.9
9 18	23 9.06	-33 9.6	1.564	2.473	12.5	20.2	9 18	23 7.94	-13 36.7	0.876	1.865	7.8	18.0
9 28	23 0.90	-32 49.3	1.607	2.465	14.9	20.3	9 28	22 58.52	-13 6.1	0.902	1.860	13.1	18.3
10 8	22 54.84	-31 58.3	1.670	2.459	17.4	20.5	10 8	22 51.99	-12 14.8	0.949	1.855	18.2	18.6
10 18	22 51.48	-30 41.4	1.749	2.453	19.6	20.6	10 18	22 49.11	-11 4.9	1.012	1.852	22.5	18.8
3338	Richter		9 10.6	30°85	0°6/10.2	18	439999	2002 <i>CX</i> ₁₁		9 10.6	130°95	0°1/10.5	15
8 9	23 38.16	- 3 7.1	0.904	1.818	19.7	16.4	8 9	23 38.60	- 1 3.8	2.644	3.498	10.3	22.2
8 19	23 34.09	- 3 42.1	0.866	1.829	14.2	16.1	8 19	23 32.79	- 2 5.5	2.587	3.520	7.4	22.0
8 29	23 27.03	- 4 35.4	0.846	1.841	8.1	15.8	8 29	23 25.74	- 3 16.3	2.556	3.541	4.2	21.9
9 8	23 18.24	- 5 37.8	0.847	1.854	1.6	15.5	9 8	23 17.98	- 4 31.9	2.555	3.561	0.9	21.6
9 18	23 9.31	- 6 38.3	0.870	1.868	5.1	15.8	9 18	23 10.16	- 5 47.2	2.584	3.580	2.5	21.8
9 28	23 1.92	- 7 26.2	0.915	1.884	11.1	16.2	9 28	23 2.92	- 6 57.0	2.644	3.598	5.7	22.0
10 8	22 57.29	- 7 54.6	0.979	1.900	16.4	16.5	10 8	22 56.83	- 7 57.3	2.733	3.615	8.5	22.3
10 18	22 55.96	- 8 1.1	1.061	1.917	20.6	16.9	10 18	22 52.31	- 8 45.4	2.846	3.632	10.9	22.5
513337	2007 <i>LH</i> ₁		9 10.6	186°74	4°5/17.4	18	186965	2004 <i>RX</i> ₁₄₃		9 10.6	25°56	1°9/ 8.4	18
8 9	23 34.80	+15 32.6	2.997	3.768	11.2	22.2	8 9	23 34.08	- 6 36.9	1.932	2.823	11.9	19.3
8 19	23 30.11	+15 23.2	2.909	3.767	9.3	22.0	8 19	23 30.02	- 7 46.1	1.873	2.827	8.4	19.1
8 29	23 24.25	+14 57.3	2.843	3.766	7.2	21.9	8 29	23 24.35	- 9 3.8	1.839	2.831	4.7	18.9
9 8	23 17.65	+14 15.9	2.803	3.765	5.3	21.8	9 8	23 17.72	-10 23.2	1.831	2.836	1.9	18.7
9 18	23 10.86	+13 20.9	2.791	3.763	4.5	21.7	9 18	23 10.89	-11 37.5	1.851	2.841	4.4	18.9
9 28	23 4.46	+12 16.2	2.809	3.761	5.5	21.8	9 28	23 4.73	-12 40.1	1.899	2.846	8.1	19.1
10 8	22 59.02	+11 6.7	2.854	3.759	7.4	21.9	10 8	22 59.98	-13 26.6	1.971	2.851	11.4	19.4
10 18	22 54.94	+ 9 57.4	2.925	3.755	9.5	22.0	10 18	22 57.11	-13 55.0	2.064	2.857	14.3	19.6
191540	2003 <i>UF</i> ₂₃₆		9 10.6	250°34	0°7/ 9.7	18	419718	2010 <i>VR</i> ₁₇		9 10.6	332°63	24°2/ 9.0	18
8 9	23 34.46	- 4 25.3	2.544	3.418	10.0	20.3	8 9	23 45.04	-55 36.3	1.034	1.865	24.2	19.2
8 19	23 30.03	- 5 10.7	2.465	3.409	7.2	20.1	8 19	23 41.25	-58 4.3	1.014	1.839	24.8	19.1
8 29	23 24.27	- 6 4.1	2.410	3.400	4.0	19.9	8 29	23 32.09	-59 43.8	1.006	1.814	25.9	19.1
9 8	23 17.67	- 7 1.5	2.384	3.391	0.9	19.7	9 8	23 19.40	-60 19.9	1.009	1.791	27.3	19.1
9 18	23 10.85	- 7 58.1	2.387	3.381	3.0	19.8	9 18	23 6.28	-59 45.5	1.022	1.770	28.9	19.2
9 28	23 4.47	- 8 49.3	2.418	3.371	6.2	20.0	9 28	22 55.98	-58 2.1	1.043	1.750	30.4	19.2
10 8	22 59.16	- 9 31.2	2.477	3.362	9.2	20.2	10 8	22 50.47	-55 19.5	1.071	1.733	31.9	19.3
10 18	22 55.37	-10 1.1	2.559	3.352	11.8	20.4	10 18	22 50.10	-51 49.5	1.106	1.717	33.2	19.4
217737	2000 <i>AF</i> ₂₁₆		9 10.6	250°28	3°6/14.8	18	446202	2013 <i>GA</i> ₆		9 10.6	113°92	0°3/10.9	18
8 9	23 35.44	+ 9 4.4	2.380	3.201	12.4	20.3	8 9	23 34.39	+ 0 10.4	2.167	3.033	11.8	20.7
8 19	23 30.84	+ 8 57.2	2.295	3.195	9.8	20.2	8 19	23 30.12	- 0 47.9	2.098	3.036	8.6	20.5
8 29	23 24.78	+ 8 33.9	2.232	3.189	6.9	20.0	8 29	23 24.37	- 1 59.2	2.053	3.039	5.0	20.3
9 8	23 17.79	+ 7 55.8	2.196	3.183	4.4	19.8	9 8	23 17.73	- 3 18.5	2.036	3.042	1.2	20.0
9 18	23 10.52	+ 7 6.0	2.187	3.177	3.8	19.8	9 18	23 10.88	- 4 39.9	2.047	3.045	2.8	20.2
9 28	23 3.74	+ 6 9.2	2.206	3.170	5.9	19.9	9 28	23 4.62	- 5 56.9	2.087	3.047	6.5	20.4
10 8	22 58.11	+ 5 11.0	2.253	3.164	8.8	20.1	10 8	22 59.61	- 7 3.8	2.153	3.050	9.9	20.6
10 18	22 54.15	+ 4 16.5	2.324	3.157	11.6	20.2	10 18	22 56.32	- 7 56.9	2.243	3.053	12.7	20.8
360652	2004 <i>QD</i> ₁₈		9 10.6	61°73	0°9/ 9.5	18	35612	1998 <i>HR</i> ₁₃₇		9 10.6	163°25	1°2/ 9.3	18
8 9	23 34.29	- 3 38.1	2.076	2.957	11.6	20.5	8 9	23 36.45	- 5 55.7	2.129	3.010	11.4	19.1
8 19	23 30.08	- 4 44.9	2.013	2.960	8.3	20.3	8 19	23 31.62	- 6 40.0	2.062	3.011	8.1	18.9
8 29	23 24.35	- 6 2.1	1.973	2.964	4.6	20.0	8 29	23 25.24	- 7 32.0	2.021	3.011	4.5	18.7
9 8	23 17.70	- 7 24.0	1.962	2.968	1.1	19.8	9 8	23 17.91	- 8 26.6	2.006	3.012	1.3	18.5
9 18	23 10.85	- 8 44.0	1.978	2.972	3.5	20.0	9 18	23 10.38	- 9 18.5	2.020	3.013	3.6	18.7
9 28	23 4.62	- 9 55.5	2.023	2.976	7.2	20.2	9 28	23 3.47	-10 2.5	2.062	3.013	7.2	18.9
10 8	22 59.69	-10 53.5	2.093	2.980	10.6	20.4	10 8	22 57.88	-10 34.6	2.129	3.014	10.5	19.1
10 18	22 56.56	-11 35.1	2.186	2.984	13.4	20.6	10 18	22 54.13	-10 52.8	2.219	3.014	13.3	19.3
76489	2000 <i>GC</i> ₅		9 10.6	220°82	1°9/ 8.8	18	361043	2005 <i>XO</i> ₇₂		9			

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
421232	2013 <i>SQ</i> ₄₁		9 10.6	90°43'	14°3'	27.6 18	350825	2002 <i>ER</i> ₃₈		9 10.6	271°45'	0°3'	11.2 16
8 9	23 41.08	+33 35.6	1.625	2.302	22.5	20.2	8 9	23 30.58	-1 59.8	4.291	5.147	6.6	21.1
8 19	23 35.82	+34 41.9	1.563	2.315	20.5	20.1	8 19	23 26.80	-2 15.2	4.208	5.141	4.8	21.0
8 29	23 28.01	+35 10.6	1.515	2.328	18.4	20.0	8 29	23 22.28	-2 35.5	4.151	5.135	2.8	20.8
9 8	23 18.53	+34 56.5	1.482	2.340	16.3	19.9	9 8	23 17.32	-2 58.9	4.123	5.129	0.7	20.7
9 18	23 8.63	+33 58.2	1.469	2.352	14.8	19.8	9 18	23 12.24	-3 23.6	4.125	5.123	1.5	20.7
9 28	22 59.72	+32 20.5	1.476	2.364	14.3	19.8	9 28	23 7.41	-3 47.3	4.157	5.117	3.6	20.9
10 8	22 53.00	+30 14.1	1.505	2.376	14.9	19.9	10 8	23 3.18	-4 8.1	4.218	5.110	5.5	21.0
10 18	22 49.18	+27 52.5	1.555	2.388	16.3	20.0	10 18	22 59.81	-4 24.3	4.304	5.104	7.3	21.1
448422	2009 <i>SJ</i> ₂₅₅		9 10.6	354°24'	8°2'	31.9 18	430709	2004 <i>DF</i> ₅₆		9 10.6	177°52'	0°1'	10.7 17
8 9	23 33.09	-22 37.9	1.636	2.547	12.5	19.3	8 9	23 39.36	-0 59.7	1.773	2.645	13.7	22.4
8 19	23 29.72	-24 36.4	1.591	2.542	9.9	19.2	8 19	23 34.02	-1 49.0	1.705	2.646	10.0	22.2
8 29	23 24.36	-26 29.2	1.571	2.538	8.3	19.1	8 29	23 26.75	-2 52.6	1.660	2.647	5.8	22.0
9 8	23 17.75	-28 5.6	1.575	2.535	8.8	19.1	9 8	23 18.27	-4 4.8	1.642	2.648	1.3	21.7
9 18	23 10.89	-29 16.6	1.603	2.532	10.9	19.2	9 18	23 9.52	-5 18.8	1.651	2.648	3.4	21.8
9 28	23 4.84	-29 57.0	1.654	2.531	13.6	19.4	9 28	23 1.53	-6 27.0	1.688	2.648	7.8	22.1
10 8	23 0.52	-30 6.2	1.725	2.530	16.3	19.6	10 8	22 55.18	-7 23.3	1.751	2.647	11.7	22.3
10 18	22 58.50	-29 46.6	1.812	2.530	18.6	19.8	10 18	22 51.05	-8 3.7	1.835	2.646	15.1	22.6
93452	2000 <i>SY</i> ₃₅₁		9 10.6	219°02'	6°4'	3.4 18	476304	2007 <i>VH</i> ₃₃₅		9 10.6	286°77'	8°0'	2.1 18
8 9	23 38.65	-19 21.5	1.881	2.779	11.8	19.0	8 9	23 39.11	-24 24.6	1.831	2.727	12.2	21.0
8 19	23 33.53	-21 2.0	1.825	2.774	8.9	18.8	8 19	23 33.98	-25 51.3	1.774	2.715	9.7	20.8
8 29	23 26.47	-22 40.7	1.794	2.769	6.8	18.7	8 29	23 26.79	-27 11.3	1.741	2.703	8.1	20.7
9 8	23 18.20	-24 8.4	1.789	2.763	6.7	18.7	9 8	23 18.29	-28 15.6	1.733	2.691	8.3	20.7
9 18	23 9.63	-25 16.9	1.812	2.757	8.8	18.8	9 18	23 9.48	-28 56.8	1.751	2.679	10.2	20.8
9 28	23 1.81	-26 0.9	1.859	2.750	11.6	19.0	9 28	23 1.47	-29 10.8	1.792	2.667	12.8	21.0
10 8	22 55.63	-26 18.9	1.929	2.743	14.4	19.1	10 8	22 55.21	-28 57.3	1.854	2.655	15.5	21.1
10 18	22 51.67	-26 12.0	2.017	2.736	16.9	19.3	10 18	22 51.32	-28 18.9	1.934	2.643	17.8	21.3
442180	2010 <i>XM</i> ₈₃		9 10.6	229°24'	4°9'	17.5 18	401873	2001 <i>CF</i> ₁₇		9 10.6	194°92'	2°8'	6.5 18
8 9	23 34.98	+15 55.6	2.837	3.609	11.8	21.6	8 9	23 35.54	-13 0.2	2.972	3.856	8.4	22.0
8 19	23 30.38	+15 50.9	2.741	3.599	9.8	21.4	8 19	23 30.65	-14 1.0	2.904	3.853	6.0	21.8
8 29	23 24.50	+15 28.7	2.667	3.589	7.6	21.3	8 29	23 24.58	-15 3.5	2.863	3.849	3.7	21.7
9 8	23 17.78	+14 49.6	2.618	3.578	5.7	21.1	9 8	23 17.81	-16 3.4	2.851	3.846	2.8	21.6
9 18	23 10.80	+13 55.4	2.597	3.567	4.9	21.0	9 18	23 10.86	-16 56.1	2.869	3.841	4.4	21.7
9 28	23 4.20	+12 49.9	2.604	3.556	5.9	21.1	9 28	23 4.34	-17 38.2	2.916	3.837	6.8	21.9
10 8	22 58.58	+11 38.5	2.639	3.544	7.9	21.2	10 8	22 58.78	-18 7.3	2.989	3.831	9.1	22.0
10 18	22 54.40	+10 26.4	2.700	3.532	10.2	21.4	10 18	22 54.59	-18 22.5	3.085	3.826	11.1	22.2
151426	2002 <i>FV</i> ₂		9 10.6	90°55'	1°9'	8.5 18	19494	Gerbs		9 10.6	153°77'	5°4'	4.2 18 R
8 9	23 37.77	-9 3.8	2.258	3.142	10.7	19.9	8 9	23 37.76	-20 0.6	2.233	3.126	10.4	18.1
8 19	23 32.41	-9 41.0	2.206	3.155	7.6	19.8	8 19	23 32.55	-21 10.3	2.182	3.129	7.9	17.9
8 29	23 25.60	-10 22.3	2.178	3.169	4.3	19.6	8 29	23 25.77	-22 16.6	2.157	3.131	5.9	17.8
9 8	23 17.99	-11 2.8	2.178	3.182	1.9	19.4	9 8	23 18.05	-23 12.8	2.158	3.133	5.6	17.8
9 18	23 10.29	-11 38.1	2.207	3.195	3.9	19.6	9 18	23 10.19	-23 53.7	2.187	3.135	7.3	17.9
9 28	23 3.27	-12 4.1	2.264	3.208	7.1	19.8	9 28	23 3.01	-24 15.5	2.242	3.137	9.8	18.1
10 8	22 57.57	-12 18.3	2.346	3.221	10.1	20.0	10 8	22 57.22	-24 17.4	2.321	3.139	12.2	18.2
10 18	22 53.63	-12 19.8	2.452	3.234	12.6	20.2	10 18	22 53.31	-24 0.3	2.419	3.140	14.3	18.4
485289	2011 <i>AE</i> ₁₁		9 10.6	301°90'	7°4'	31.9 17	257133	2008 <i>GL</i> ₁₃₀		9 10.6	330°14'	5°6'	4.7 18
8 9	23 35.97	-23 5.0	2.025	2.923	11.1	21.4	8 9	23 38.83	-20 14.6	2.096	2.990	11.0	20.9
8 19	23 31.72	-24 53.2	1.949	2.893	8.8	21.2	8 19	23 33.41	-21 9.4	2.041	2.988	8.3	20.7
8 29	23 25.54	-26 39.2	1.899	2.862	7.5	21.0	8 29	23 26.29	-22 0.2	2.012	2.987	6.1	20.6
9 8	23 18.03	-28 13.7	1.875	2.831	7.9	21.0	9 8	23 18.17	-22 40.6	2.008	2.986	5.7	20.5
9 18	23 10.03	-29 28.3	1.877	2.801	9.9	21.0	9 18	23 9.88	-23 5.4	2.032	2.984	7.4	20.7
9 28	23 2.55	-30 16.9	1.904	2.770	12.6	21.2	9 28	23 2.34	-23 11.1	2.081	2.983	10.0	20.8
10 8	22 56.52	-30 37.4	1.951	2.739	15.3	21.3	10 8	22 56.30	-22 57.2	2.153	2.982	12.7	21.0
10 18	22 52.62	-30 30.7	2.016	2.709	17.6	21.4	10 18	22 52.28	-22 25.0	2.246	2.981	15.0	21.2
101394	1998 <i>UL</i> ₃₈		9 10.6	299°73'	3°0'	8.2 18	82726	2001 <i>PA</i> ₅₃		9 10.6	77°88'	0°7'	9.9 18
8 9	23 38.78	-8 53.5	1.407	2.309	14.8	19.4	8 9	23 36.38	-3 30.3	1.897	2.778	12.6	20.0
8 19	23 34.21	-9 45.4	1.331	2.290	10.7	19.1	8 19	23 31.74	-4 19.8	1.833	2.780	9.1	19.7
8 29	23 27.15	-10 47.0	1.278	2.271	6.2	18.8	8 29	23 25.39	-5 20.2	1.792	2.782	5.1	19.5
9 8	23 18.39	-11 50.4	1.249	2.253	3.0	18.6	9 8	23 17.99	-6 26.0	1.778	2.785	1.1	19.2
9 18	23 9.07	-12 46.7	1.245	2.234	6.1	18.7	9 18	23 10.37	-7 30.8	1.791	2.787	3.5	19.4
9 28	23 0.54	-13 27.6	1.266	2.216	10.9	18.9	9 28	23 3.44	-8 28.2	1.832	2.789	7.5	19.7
10 8	22 54.01	-13 47.8	1.309	2.199	15.4	19.1	10 8	22 57.98	-9 13.1	1.899	2.792	11.2	19.9
10 18	22 50.27	-13 45.8	1.371	2.181	19.3	19.4	10 18	22 54.53	-9 42.6	1.987	2.794	14.2	20.1
298129	2002 <i>RR</i> ₂₅₃		9 10.6	282°35'	1°8'	12.3 18	402199	2004 <i>TR</i> ₂₈₅		9 10.6	332°68'	3°8'	14.1 18
8 9	23 37.20	+2 24.3	1.882	2.742	13.6	21.5	8 9	23 37.05	+6 37.4	1.948	2.790	13.9	20.1
8 19	23 32.51	+2 6.3	1.796	2.728	10.3	21.3	8 19	23 32.32	+6 53.3	1.867	2.781	10.9	19.9
8 29	23 25.93	+1 32.8	1.734	2.713	6.5	21.1	8 29	23 25.79	+6 53.0	1.808	2.774	7.6	19.6
9 8	23 18.11	+0 46.9	1.696	2.699	2.6	20.8	9 8	23 18.09	+6 37.7	1.774	2.766	4.6	19.5
9 18	23 9.88	-0 6.8	1.686	2.685	3.1	20.8	9 18	23 10.04	+6 10.1	1.767	2.759	4.1	19.4
9 28	23 2.22	-1 2.0	1.704	2.670	7.1	21.0	9 28	23 2.57	+5 34.7	1.787	2.753	6.9	19.6
10 8	22 56.01	-1 52.3	1.747	2.656	11.1	21.2	10 8	22 56.53	+4 57.4	1.832	2.747	10.3	19.8
10 18	22 51.91	-2 32.7	1.812	2.641	14.5	21.4	10 18	22 52.52	+4 23.5	1.900	2.741	13.5	20.0
116732	2004 <i>DO</i> ₂₄		9 10.6	162°81'	0°6'	11.2 17	41991	2000 <i>YJ</i> ₃₄		9 10.6	242°87'	2°9'	6.5 18

EPHEMERIDES

9 10.6

9 10.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
484642	2008 SY ₃₀₄		9 10.6 286°31	2°8/ 7.4 18			37976	1998 HC ₁₁₈		9 10.6 34°13	3°2/ 7.3 18	R	
8 9	23 37.06	-13 2.6	2.492	3.379	9.7	21.0	8 9	23 36.21	-8 42.3	1.599	2.499	13.4	17.6
8 19	23 31.92	-13 34.8	2.422	3.373	7.0	20.8	8 19	23 31.90	-10 8.7	1.543	2.501	9.5	17.4
8 29	23 25.38	-14 8.4	2.378	3.366	4.2	20.6	8 29	23 25.61	-11 43.6	1.511	2.503	5.5	17.1
9 8	23 17.99	-14 38.8	2.361	3.359	2.8	20.5	9 8	23 18.10	-13 17.9	1.505	2.506	3.2	17.0
9 18	23 10.40	-15 2.1	2.373	3.352	4.6	20.6	9 18	23 10.35	-14 42.6	1.525	2.509	6.0	17.2
9 28	23 3.35	-15 14.9	2.412	3.346	7.4	20.8	9 28	23 3.42	-15 49.6	1.571	2.512	10.0	17.4
10 8	22 57.48	-15 15.3	2.478	3.339	10.1	20.9	10 8	22 58.23	-16 34.4	1.641	2.515	13.7	17.7
10 18	22 53.26	-15 2.6	2.566	3.332	12.5	21.1	10 18	22 55.33	-16 55.9	1.730	2.518	16.8	17.9
397537	2007 TD ₂₆₁		9 10.6 230°51	2°8/ 7.7 18			39779	1997 HE ₉		9 10.6 119°83	0°5/ 10.1 18		
8 9	23 38.95	-11 4.2	2.099	2.987	11.2	21.8	8 9	23 37.14	-4 24.9	2.221	3.096	11.2	19.8
8 19	23 33.53	-11 51.5	2.028	2.979	8.1	21.6	8 19	23 32.10	-4 52.3	2.153	3.098	8.1	19.6
8 29	23 26.41	-12 42.7	1.982	2.972	4.8	21.4	8 29	23 25.54	-5 27.6	2.111	3.100	4.6	19.4
9 8	23 18.22	-13 32.2	1.963	2.964	2.8	21.2	9 8	23 18.08	-6 6.7	2.095	3.102	0.9	19.1
9 18	23 9.76	-14 14.3	1.973	2.956	5.0	21.3	9 18	23 10.43	-6 45.3	2.108	3.103	3.0	19.3
9 28	23 1.92	-14 44.2	2.010	2.947	8.4	21.5	9 28	23 3.37	-7 18.7	2.149	3.105	6.6	19.5
10 8	22 55.51	-14 59.1	2.072	2.938	11.6	21.7	10 8	22 57.61	-7 43.2	2.216	3.107	9.9	19.7
10 18	22 51.06	-14 57.9	2.156	2.929	14.4	21.9	10 18	22 53.63	-7 56.6	2.306	3.109	12.7	19.9
19	Fortuna		9 10.6 326°10	0°9/ 11.3 18			96122	1141 T ₋₃		9 10.6 16°44	4°4/ 15.0 18		
8 9	23 36.22	-0 15.7	1.297	2.188	16.5	10.3	8 9	23 35.93	+9 0.5	1.848	2.683	14.8	19.0
8 19	23 32.43	-0 39.1	1.224	2.174	12.3	10.0	8 19	23 31.52	+9 7.8	1.779	2.687	11.7	18.8
8 29	23 26.17	-1 21.2	1.171	2.160	7.4	9.7	8 29	23 25.34	+8 55.7	1.731	2.691	8.4	18.6
9 8	23 18.22	-2 17.1	1.141	2.147	2.1	9.3	9 8	23 18.05	+8 25.7	1.708	2.695	5.3	18.5
9 18	23 9.73	-3 19.3	1.136	2.135	3.9	9.4	9 18	23 10.51	+7 41.2	1.710	2.700	4.6	18.4
9 28	23 2.07	-4 18.7	1.155	2.124	9.3	9.7	9 28	23 3.64	+6 48.0	1.740	2.706	7.0	18.6
10 8	22 56.45	-5 6.8	1.196	2.113	14.3	10.0	10 8	22 58.28	+5 52.9	1.794	2.712	10.3	18.8
10 18	22 53.64	-5 38.0	1.256	2.103	18.6	10.3	10 18	22 54.98	+5 2.2	1.872	2.718	13.4	19.0
399060	2013 YV ₂₉		9 10.6 160°54	1°7/ 12.5 17			170396	2003 SW ₃₂₀		9 10.6 355°74	0°1/ 10.6 18		
8 9	23 39.04	+3 5.3	2.377	3.220	11.7	22.1	8 9	23 37.21	-1 52.2	1.692	2.572	13.9	20.5
8 19	23 33.35	+2 41.3	2.306	3.227	8.8	22.0	8 19	23 32.57	-2 32.2	1.626	2.571	10.1	20.3
8 29	23 26.20	+2 4.7	2.258	3.234	5.5	21.8	8 29	23 25.98	-3 25.5	1.582	2.571	5.8	20.0
9 8	23 18.17	+1 18.4	2.238	3.240	2.4	21.6	9 8	23 18.19	-4 27.0	1.564	2.571	1.2	19.7
9 18	23 9.95	+0 26.5	2.248	3.245	2.6	21.6	9 18	23 10.12	-5 29.9	1.573	2.570	3.5	19.9
9 28	23 2.32	-0 26.0	2.287	3.250	5.8	21.8	9 28	23 2.81	-6 27.0	1.608	2.570	7.9	20.1
10 8	22 55.94	-1 14.4	2.353	3.254	9.0	22.0	10 8	22 57.15	-7 12.5	1.669	2.570	11.9	20.4
10 18	22 51.29	-1 54.8	2.444	3.257	11.7	22.2	10 18	22 53.72	-7 42.6	1.751	2.571	15.3	20.6
264123	2009 TG ₃₃		9 10.6 289°57	3°8/ 18.3 16			104766	2000 HG ₂₄		9 10.6 22°48	11°5/ 31.3 18		
8 9	23 30.08	+16 48.7	4.267	5.020	8.4	19.9	8 9	23 40.91	-31 44.1	1.472	2.365	14.8	18.4
8 19	23 26.52	+16 49.1	4.169	5.010	7.1	19.8	8 19	23 35.51	-33 12.0	1.446	2.373	12.7	18.3
8 29	23 22.17	+16 37.8	4.094	5.001	5.6	19.7	8 29	23 27.68	-34 21.4	1.442	2.380	11.6	18.3
9 8	23 17.32	+16 15.3	4.045	4.992	4.4	19.6	9 8	23 18.52	-35 2.5	1.460	2.389	12.0	18.3
9 18	23 12.34	+15 42.8	4.023	4.983	3.8	19.6	9 18	23 9.35	-35 9.4	1.499	2.398	13.6	18.5
9 28	23 7.59	+15 2.3	4.030	4.974	4.3	19.6	9 28	23 1.51	-34 41.2	1.560	2.408	15.8	18.6
10 8	23 3.44	+14 16.7	4.065	4.965	5.5	19.7	10 8	22 55.98	-33 41.7	1.639	2.419	18.0	18.8
10 18	23 0.19	+13 29.1	4.127	4.956	7.0	19.8	10 18	22 53.25	-32 17.0	1.733	2.430	20.0	19.0
369489	2010 UM ₅₅		9 10.6 2°12	2°5/ 12.5 17			393790	2005 LD ₃₇		9 10.6 155°26	3°8/ 15.1 18		
8 9	23 38.21	+3 15.6	1.257	2.136	17.8	20.8	8 9	23 35.80	+10 20.6	2.079	2.901	13.9	21.3
8 19	23 33.81	+3 0.0	1.195	2.135	13.5	20.5	8 19	23 31.28	+9 53.3	2.002	2.903	11.0	21.1
8 29	23 26.90	+2 22.3	1.152	2.135	8.5	20.2	8 29	23 25.15	+9 5.7	1.948	2.905	7.8	20.9
9 8	23 18.37	+1 26.5	1.132	2.135	3.6	20.0	9 8	23 18.01	+8 0.2	1.919	2.907	4.8	20.7
9 18	23 9.44	+0 20.0	1.137	2.135	4.0	20.0	9 18	23 10.63	+6 41.2	1.918	2.909	4.0	20.7
9 28	23 1.52	-0 47.6	1.165	2.136	9.0	20.3	9 28	23 3.85	+5 15.6	1.945	2.911	6.4	20.9
10 8	22 55.77	-1 47.1	1.217	2.138	13.8	20.6	10 8	22 58.42	+3 50.8	1.998	2.913	9.6	21.1
10 18	22 52.88	-2 31.8	1.288	2.140	17.9	20.8	10 18	22 54.86	+2 33.2	2.076	2.914	12.6	21.3
339501	2005 GR ₅₅		9 10.6 194°27	4°6/ 16.3 18			236585	2006 HR ₁₁₁		9 10.6 120°43	0°3/ 10.3 16		
8 9	23 37.40	+13 11.9	2.453	3.246	12.9	21.1	8 9	23 41.17	-3 52.6	2.068	2.938	12.2	21.2
8 19	23 32.26	+13 1.5	2.366	3.244	10.4	20.9	8 19	23 34.98	-4 17.0	2.012	2.953	8.8	21.1
8 29	23 25.64	+12 32.5	2.302	3.241	7.8	20.7	8 29	23 27.16	-4 49.7	1.980	2.967	5.0	20.9
9 8	23 18.08	+11 45.9	2.263	3.238	5.4	20.6	9 8	23 18.42	-5 26.5	1.975	2.981	1.0	20.6
9 18	23 10.24	+10 44.6	2.253	3.234	4.6	20.5	9 18	23 9.56	-6 2.7	1.999	2.995	3.1	20.8
9 28	23 2.90	+9 33.4	2.270	3.229	6.2	20.6	9 28	23 1.48	-6 33.7	2.052	3.008	6.9	21.1
10 8	22 56.74	+8 18.6	2.316	3.224	8.7	20.8	10 8	22 54.91	-6 55.9	2.131	3.021	10.2	21.3
10 18	22 52.27	+7 6.2	2.387	3.218	11.4	20.9	10 18	22 50.31	-7 7.0	2.233	3.034	13.1	21.5
330618	2008 ET ₄		9 10.6 264°14	5°0/ 6.6 17			41301	1999 XP ₁₂₇		9 10.6 44°56	3°6/ 14.3 18		
8 9	23 41.89	-14 16.7	1.492	2.393	14.1	20.9	8 9	23 36.48	+7 24.1	1.977	2.815	13.9	18.5
8 19	23 36.30	-15 17.0	1.427	2.383	10.3	20.6	8 19	23 31.76	+7 22.7	1.914	2.826	10.8	18.3
8 29	23 28.27	-16 19.9	1.385	2.373	6.6	20.4	8 29	23 25.40	+7 4.0	1.872	2.836	7.5	18.2
9 8	23 18.67	-17 16.5	1.368	2.362	5.1	20.3	9 8	23 18.06	+6 30.1	1.856	2.848	4.4	18.0
9 18	23 8.66	-17 58.4	1.376	2.352	7.6	20.4	9 18	23 10.54	+5 44.8	1.866	2.859	3.9	18.0
9 28	22 59.58	-18 19.2	1.409	2.341	11.6	20.6	9 28	23 3.70	+4 53.7	1.904	2.870	6.5	18.2
10 8	22 52.55	-18 16.6	1.465	2.331	15.5	20.8	10 8	22 58.30	+4 2.8	1.968	2.882	9.7	18.4
10 18	22 48.28	-17 51.5	1.539	2.320	18.9	21.0	10 18	22 54.82	+3 17.5	2.055	2.894	12.6	18.6
448101	2008 KA ₁₈		9 10.6 21°50	0°3/ 10.9 18			73402	2002 LA ₂₃		9 10.6 17°88	0°6/ 10.0 18		
8 9	23 34.47	-0 57.2	1.874	2.750	12.9	20.7	8 9	23 35.99	-4 33.0				

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
150649	2001 <i>DK</i> ₈₈		9 10.6 150°75	2°2/13.5	18		282437	2003 <i>XE</i> ₆		9 10.6 346°85	8°7/16.4	18	
8 9	23 37.65	+ 4 54.7	2.979	3.806	10.0	20.4	8 9	23 38.14	+12 41.3	1.339	2.176	19.3	19.0
8 19	23 32.13	+ 4 51.9	2.905	3.814	7.7	20.3	8 19	23 33.93	+13 54.9	1.266	2.165	16.1	18.8
8 29	23 25.44	+ 4 38.7	2.856	3.822	5.1	20.1	8 29	23 27.13	+14 44.3	1.211	2.156	12.7	18.5
9 8	23 18.07	+ 4 16.7	2.835	3.830	2.7	20.0	9 8	23 18.52	+15 6.2	1.176	2.147	9.7	18.3
9 18	23 10.55	+ 3 48.3	2.843	3.837	2.6	20.0	9 18	23 9.27	+15 0.3	1.165	2.140	8.7	18.3
9 28	23 3.48	+ 3 16.8	2.882	3.844	4.8	20.1	9 28	23 0.82	+14 30.9	1.176	2.135	10.5	18.4
10 8	22 57.40	+ 2 45.6	2.949	3.850	7.3	20.3	10 8	22 54.44	+13 46.7	1.209	2.130	13.8	18.5
10 18	22 52.71	+ 2 17.9	3.041	3.856	9.6	20.5	10 18	22 50.99	+12 57.5	1.262	2.127	17.3	18.8
417878	2007 <i>PV</i> ₂₁		9 10.6 21°64	2°1/11.5	17		238116	2003 <i>OE</i>		9 10.6 305°98	2°4/ 8.7	18	
8 9	23 41.68	- 2 41.0	0.779	1.697	21.7	19.6	8 9	23 38.44	- 8 11.3	1.554	2.451	13.9	20.4
8 19	23 36.96	- 1 52.1	0.746	1.707	16.0	19.3	8 19	23 33.75	- 8 53.4	1.481	2.437	10.1	20.1
8 29	23 28.85	- 1 20.5	0.728	1.721	9.6	19.0	8 29	23 26.83	- 9 44.1	1.430	2.422	5.7	19.9
9 8	23 18.80	- 1 3.2	0.730	1.736	3.2	18.7	9 8	23 18.43	-10 36.7	1.403	2.408	2.4	19.6
9 18	23 8.68	- 0 55.0	0.752	1.753	4.9	18.9	9 18	23 9.59	-11 23.9	1.403	2.394	5.2	19.8
9 28	23 0.41	- 0 49.2	0.795	1.771	11.0	19.3	9 28	23 1.51	-11 58.7	1.429	2.381	9.7	20.0
10 8	22 55.32	- 0 39.3	0.857	1.791	16.5	19.7	10 8	22 55.24	-12 16.5	1.477	2.367	13.9	20.2
10 18	22 53.94	- 0 20.9	0.936	1.813	20.9	20.1	10 18	22 51.48	-12 15.5	1.546	2.354	17.5	20.4
435135	2007 <i>GB</i> ₁₆		9 10.6 59°19	5°2/15.3	16		28442	Nicholashuey		9 10.6 116°42	1°3/ 9.5	18	
8 9	23 39.31	+10 3.0	1.501	2.340	17.5	20.1	8 9	23 42.01	- 5 51.2	1.668	2.551	13.9	19.1
8 19	23 34.20	+10 9.8	1.446	2.354	13.9	20.0	8 19	23 35.92	- 6 31.7	1.616	2.564	9.9	18.9
8 29	23 26.94	+ 9 52.3	1.410	2.369	9.9	19.8	8 29	23 27.84	- 7 21.0	1.586	2.577	5.6	18.7
9 8	23 18.41	+ 9 12.3	1.397	2.384	6.4	19.6	9 8	23 18.60	- 8 12.9	1.583	2.589	1.5	18.5
9 18	23 9.67	+ 8 14.6	1.410	2.400	5.4	19.6	9 18	23 9.23	- 9 0.8	1.607	2.601	4.2	18.7
9 28	23 1.91	+ 7 7.1	1.448	2.415	8.1	19.8	9 28	23 0.82	- 9 38.7	1.659	2.612	8.5	19.0
10 8	22 56.08	+ 5 58.7	1.511	2.431	11.7	20.0	10 8	22 54.24	-10 2.6	1.735	2.623	12.3	19.2
10 18	22 52.75	+ 4 57.1	1.596	2.447	15.1	20.3	10 18	22 50.04	-10 10.9	1.832	2.634	15.5	19.5
515670	2014 <i>OG</i> ₃₂₂		9 10.6 7°27	4°0/ 5.7	18		95244	2002 <i>CM</i> ₅₁		9 10.6 106°65	0°4/11.0	18	
8 9	23 35.01	-14 5.0	2.145	3.042	10.6	21.3	8 9	23 36.58	- 1 25.0	2.226	3.093	11.5	19.7
8 19	23 30.66	-15 23.5	2.087	3.042	7.7	21.2	8 19	23 31.69	- 1 53.9	2.160	3.098	8.4	19.5
8 29	23 24.77	-16 43.8	2.056	3.042	5.0	21.0	8 29	23 25.33	- 2 32.9	2.118	3.104	4.9	19.3
9 8	23 17.94	-17 59.2	2.051	3.042	4.1	20.9	9 8	23 18.08	- 3 18.2	2.103	3.109	1.2	19.1
9 18	23 10.92	-19 3.2	2.074	3.043	6.1	21.1	9 18	23 10.65	- 4 5.3	2.116	3.114	2.7	19.2
9 28	23 4.51	-19 50.7	2.124	3.043	9.0	21.3	9 28	23 3.82	- 4 49.3	2.158	3.119	6.3	19.4
10 8	22 59.42	-20 19.1	2.198	3.044	11.8	21.4	10 8	22 58.27	- 5 25.8	2.226	3.124	9.5	19.6
10 18	22 56.14	-20 28.1	2.293	3.044	14.2	21.6	10 18	22 54.45	- 5 51.9	2.318	3.129	12.3	19.8
253540	2003 <i>SF</i> ₂₂₇		9 10.6 251°97	0°1/10.7	18		474698	2005 <i>GT</i> ₁		9 10.6 257°54	5°4/ 5.9	18	
8 9	23 39.62	- 1 18.8	1.537	2.416	15.0	21.1	8 9	23 43.04	-19 2.5	1.920	2.810	12.0	21.3
8 19	23 34.63	- 2 2.4	1.459	2.405	11.1	20.8	8 19	23 36.68	-19 43.5	1.855	2.802	9.0	21.1
8 29	23 27.35	- 3 2.4	1.404	2.393	6.5	20.5	8 29	23 28.31	-20 21.1	1.814	2.793	6.3	20.9
9 8	23 18.53	- 4 13.3	1.374	2.381	1.4	20.2	9 8	23 18.72	-20 48.5	1.800	2.784	5.5	20.8
9 18	23 9.22	- 5 27.3	1.371	2.368	3.8	20.3	9 18	23 8.87	-21 0.4	1.813	2.775	7.4	20.9
9 28	23 0.66	- 6 35.8	1.394	2.356	8.9	20.6	9 28	22 59.83	-20 53.2	1.852	2.766	10.4	21.1
10 8	22 53.93	- 7 31.1	1.441	2.343	13.4	20.8	10 8	22 52.52	-20 26.4	1.915	2.756	13.5	21.3
10 18	22 49.78	- 8 8.8	1.508	2.329	17.3	21.0	10 18	22 47.53	-19 41.7	1.998	2.747	16.1	21.5
392785	2012 <i>TU</i> ₁₄₂		9 10.6 283°64	1°0/ 9.6	18		447359	2005 <i>YL</i> ₂₆₈		9 10.6 334°18	6°5/17.0	17	
8 9	23 36.05	- 3 0.2	1.725	2.609	13.4	20.7	8 9	23 38.61	+14 47.1	2.149	2.939	14.5	20.7
8 19	23 31.89	- 4 8.1	1.641	2.590	9.8	20.5	8 19	23 33.41	+15 27.5	2.067	2.936	12.1	20.5
8 29	23 25.72	- 5 31.5	1.580	2.571	5.5	20.2	8 29	23 26.45	+15 48.9	2.006	2.932	9.5	20.4
9 8	23 18.19	- 7 3.8	1.545	2.551	1.2	19.9	9 8	23 18.34	+15 50.2	1.969	2.929	7.3	20.2
9 18	23 10.18	- 8 36.9	1.537	2.531	4.1	20.0	9 18	23 9.87	+15 32.3	1.958	2.926	6.5	20.2
9 28	23 2.75	-10 1.7	1.556	2.512	8.7	20.3	9 28	23 1.93	+14 58.8	1.974	2.923	7.7	20.3
10 8	22 56.86	-11 10.9	1.600	2.492	12.9	20.5	10 8	22 55.36	+14 15.3	2.015	2.920	10.0	20.4
10 18	22 53.22	-12 0.0	1.665	2.472	16.5	20.7	10 18	22 50.74	+13 28.2	2.080	2.918	12.6	20.6
260001	2004 <i>FR</i> ₁₁₂		9 10.6 235°03	0°1/10.6	17		479683	2014 <i>DX</i> ₈₇		9 10.6 181°09	1°1/ 9.5	18	
8 9	23 40.66	- 2 24.8	1.725	2.600	13.9	21.3	8 9	23 38.19	- 4 56.5	2.016	2.894	12.0	21.9
8 19	23 35.15	- 2 56.3	1.647	2.590	10.2	21.0	8 19	23 33.03	- 5 48.2	1.948	2.895	8.6	21.6
8 29	23 27.55	- 3 40.7	1.593	2.581	5.9	20.7	8 29	23 26.17	- 6 49.2	1.905	2.895	4.8	21.4
9 8	23 18.57	- 4 33.1	1.564	2.571	1.2	20.4	9 8	23 18.28	- 7 54.0	1.889	2.895	1.3	21.2
9 18	23 9.17	- 5 27.3	1.563	2.560	3.5	20.6	9 18	23 10.15	- 8 56.5	1.901	2.895	3.7	21.4
9 28	23 0.48	- 6 16.6	1.589	2.549	8.2	20.8	9 28	23 2.67	- 9 50.6	1.942	2.894	7.5	21.6
10 8	22 53.48	- 6 55.0	1.640	2.538	12.3	21.0	10 8	22 56.63	-10 31.9	2.008	2.893	11.0	21.8
10 18	22 48.84	- 7 19.1	1.713	2.526	15.9	21.2	10 18	22 52.55	-10 57.9	2.096	2.892	14.0	22.0
522941	2016 <i>PV</i> ₁₁₂		9 10.6 284°08	1°1/ 9.6	18		331600	2001 <i>VH</i> ₈₉		9 10.6 50°58	10°2/20.6	18	
8 9	23 36.82	- 4 16.0	1.743	2.628	13.2	21.4	8 9	23 38.89	+21 27.6	1.470	2.249	20.6	19.6
8 19	23 32.31	- 5 8.9	1.670	2.620	9.6	21.1	8 19	23 34.15	+22 10.7	1.411	2.261	17.7	19.4
8 29	23 25.88	- 6 13.8	1.621	2.613	5.4	20.9	8 29	23 27.05	+22 20.6	1.369	2.274	14.6	19.3
9 8	23 18.21	- 7 24.6	1.598	2.605	1.3	20.6	9 8	23 18.48	+21 54.9	1.347	2.287	11.8	19.2
9 18	23 10.19	- 8 34.0	1.602	2.597	4.0	20.8	9 18	23 9.59	+20 55.6	1.346	2.300	10.3	19.1
9 28	23 2.86	- 9 34.7	1.633	2.589	8.4	21.0	9 28	23 1.67	+19 29.8	1.369	2.313	10.8	19.2
10 8	22 57.11	-10 21.0	1.688	2.581	12.3	21.2	10 8	22 55.80	+17 48.8	1.415	2.327	12.9	19.3
10 18	22 53.56	-10 49.8	1.765	2.573	15.7	21.4	10 18	22 52.64	+16 4.7	1.483	2.341	15.6	19.6
481582	2007 <i>TP</i> ₁₃₂		9 10.6 333°16	2°0/ 9.1	16		146961	2002 <i>GH</i> ₁₂₉					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
13367	Jiri		9 10.6	13°04'	7°9'	1.8 18	94191	2001 BH ₁		9 10.6	221°19'	3°8'	13.7 18
8 9	23 39.31	-27 50.4	2.085	2.972	11.3	17.7	8 9	23 43.46	+ 5 58.4	2.017	2.848	13.9	19.4
8 19	23 33.85	-28 57.5	2.043	2.973	9.3	17.5	8 19	23 36.99	+ 6 24.3	1.932	2.841	10.9	19.2
8 29	23 26.61	-29 54.2	2.025	2.975	8.1	17.5	8 29	23 28.56	+ 6 35.6	1.871	2.834	7.5	19.0
9 8	23 18.37	-30 33.8	2.033	2.976	8.2	17.5	9 8	23 18.83	+ 6 32.9	1.835	2.827	4.5	18.8
9 18	23 10.00	-30 51.1	2.065	2.978	9.7	17.6	9 18	23 8.69	+ 6 18.4	1.828	2.819	4.2	18.7
9 28	23 2.48	-30 44.0	2.122	2.980	11.8	17.7	9 28	22 59.16	+ 5 55.8	1.849	2.811	7.1	18.9
10 8	22 56.59	-30 13.5	2.199	2.983	13.9	17.9	10 8	22 51.15	+ 5 30.5	1.897	2.803	10.5	19.1
10 18	22 52.80	-29 22.3	2.296	2.985	15.8	18.0	10 18	22 45.31	+ 5 7.4	1.969	2.794	13.7	19.3
23248	Batchelor		9 10.6	309°53'	6°8'	4.6 18	488045	2015 UA ₄₇		9 10.6	338°04'	3°7'	6.2 18
8 9	23 39.21	-18 27.7	1.509	2.415	13.7	17.9	8 9	23 34.15	-12 13.3	1.995	2.895	11.2	20.8
8 19	23 34.37	-19 46.1	1.450	2.405	10.3	17.7	8 19	23 30.19	-13 32.6	1.933	2.890	8.0	20.6
8 29	23 27.19	-21 3.1	1.414	2.395	7.5	17.5	8 29	23 24.59	-14 56.1	1.896	2.885	5.0	20.4
9 8	23 18.53	-22 8.6	1.402	2.385	7.0	17.4	9 8	23 17.98	-16 16.5	1.885	2.881	3.8	20.3
9 18	23 9.50	-22 54.0	1.415	2.375	9.3	17.6	9 18	23 11.12	-17 26.7	1.902	2.877	6.0	20.5
9 28	23 1.39	-23 13.3	1.452	2.366	12.8	17.7	9 28	23 4.87	-18 20.7	1.945	2.873	9.2	20.7
10 8	22 55.27	-23 5.2	1.511	2.357	16.2	17.9	10 8	23 0.00	-18 55.2	2.012	2.869	12.3	20.8
10 18	22 51.80	-22 31.7	1.587	2.348	19.2	18.1	10 18	22 57.02	-19 9.3	2.100	2.866	14.9	21.0
377662	2005 UZ ₂₃₁		9 10.6	101°72'	2°8'	13.3 18	385450	2003 SN ₂₆		9 10.6	40°37'	4°6'	13.6 18
8 9	23 38.78	+ 5 39.6	1.665	2.517	15.4	21.0	8 9	23 45.18	+ 4 37.3	1.271	2.134	18.6	19.4
8 19	23 33.68	+ 5 12.7	1.603	2.527	11.8	20.8	8 19	23 38.54	+ 5 27.8	1.231	2.158	14.3	19.2
8 29	23 26.62	+ 4 26.0	1.564	2.538	7.7	20.5	8 29	23 30.19	+ 5 58.1	1.211	2.183	9.6	19.0
9 8	23 18.39	+ 3 23.1	1.549	2.548	3.8	20.3	9 8	23 18.98	+ 6 9.0	1.214	2.209	5.6	18.9
9 18	23 9.94	+ 2 10.4	1.561	2.558	3.6	20.3	9 18	23 8.50	+ 6 3.8	1.242	2.236	5.2	18.9
9 28	23 2.33	+ 0 55.7	1.600	2.568	7.3	20.6	9 28	22 59.39	+ 5 48.6	1.295	2.262	8.8	19.2
10 8	22 56.46	- 0 13.3	1.664	2.577	11.2	20.9	10 8	22 52.68	+ 5 30.5	1.372	2.290	12.7	19.5
10 18	22 52.87	- 1 10.5	1.751	2.587	14.6	21.1	10 18	22 48.90	+ 5 15.6	1.469	2.318	16.2	19.8
348066	2003 UV ₃₀₀		9 10.6	250°23'	5°8'	16.9 18	221488	2006 CB		9 10.6	262°73'	0°9'	11.6 18
8 9	23 36.31	+14 39.7	1.943	2.745	15.4	20.8	8 9	23 37.80	- 0 25.7	2.476	3.333	10.8	20.8
8 19	23 31.88	+14 31.3	1.858	2.739	12.7	20.6	8 19	23 32.61	- 0 36.3	2.385	3.316	8.1	20.6
8 29	23 25.63	+13 58.7	1.794	2.733	9.7	20.4	8 29	23 25.92	- 0 56.5	2.318	3.300	4.9	20.3
9 8	23 18.20	+13 2.5	1.754	2.726	6.9	20.2	9 8	23 18.27	- 1 23.8	2.278	3.283	1.6	20.1
9 18	23 10.40	+11 46.1	1.739	2.720	5.8	20.1	9 18	23 10.29	- 1 54.8	2.268	3.266	2.5	20.1
9 28	23 3.19	+10 16.2	1.752	2.713	7.4	20.2	9 28	23 2.73	- 2 25.5	2.287	3.249	5.9	20.3
10 8	22 57.43	+ 8 41.2	1.791	2.707	10.4	20.4	10 8	22 56.30	- 2 52.1	2.332	3.231	9.1	20.5
10 18	22 53.73	+ 7 9.6	1.853	2.700	13.5	20.6	10 18	22 51.52	- 3 11.4	2.402	3.213	12.0	20.7
295334	2008 HR ₆		9 10.6	104°96'	2°7'	13.9 18	461233	2015 WZ ₄		9 10.6	315°60'	7°1'	19.0 17
8 9	23 35.20	+ 7 4.7	2.208	3.043	12.7	21.1	8 9	23 33.48	+18 50.8	2.067	2.842	15.5	21.0
8 19	23 30.75	+ 6 34.6	2.136	3.049	9.8	20.9	8 19	23 29.84	+18 53.3	1.972	2.827	13.2	20.8
8 29	23 24.83	+ 5 47.9	2.087	3.054	6.6	20.7	8 29	23 24.49	+18 30.6	1.896	2.811	10.6	20.6
9 8	23 18.01	+ 4 47.3	2.065	3.060	3.6	20.5	9 8	23 17.98	+17 42.0	1.843	2.796	8.3	20.4
9 18	23 10.99	+ 3 37.4	2.070	3.065	3.1	20.5	9 18	23 11.06	+16 29.6	1.815	2.781	7.1	20.3
9 28	23 4.55	+ 2 24.3	2.104	3.071	5.9	20.7	9 28	23 4.64	+14 58.6	1.813	2.766	7.9	20.4
10 8	22 59.36	+ 1 14.0	2.165	3.076	9.1	20.9	10 8	22 59.52	+13 17.2	1.837	2.752	10.2	20.5
10 18	22 55.90	+ 0 11.9	2.250	3.081	12.0	21.1	10 18	22 56.34	+11 34.2	1.885	2.738	13.0	20.6
129213	2005 NF ₆₉		9 10.6	26°86'	0°6'	11.2 18	123634	2000 YV ₄₇		9 10.6	252°67'	0°7'	9.8 18
8 9	23 37.06	- 0 57.9	1.826	2.700	13.3	20.1	8 9	23 36.95	- 5 7.6	2.556	3.427	10.1	21.1
8 19	23 32.33	- 1 23.9	1.761	2.703	9.8	19.9	8 19	23 31.95	- 5 42.8	2.466	3.409	7.3	20.9
8 29	23 25.83	- 2 2.5	1.719	2.706	5.8	19.7	8 29	23 25.53	- 6 25.3	2.403	3.392	4.1	20.6
9 8	23 18.23	- 2 49.4	1.703	2.709	1.5	19.4	9 8	23 18.18	- 7 11.4	2.367	3.374	1.0	20.4
9 18	23 10.40	- 3 39.0	1.714	2.712	3.0	19.5	9 18	23 10.53	- 7 56.9	2.361	3.355	3.0	20.5
9 28	23 3.29	- 4 25.4	1.752	2.716	7.2	19.8	9 28	23 3.30	- 8 37.2	2.384	3.336	6.3	20.7
10 8	22 57.71	- 5 3.2	1.815	2.719	11.0	20.1	10 8	22 57.14	- 9 8.8	2.434	3.317	9.4	20.9
10 18	22 54.21	- 5 28.9	1.901	2.723	14.2	20.3	10 18	22 52.57	- 9 29.2	2.507	3.297	12.1	21.0
315000	2007 AY ₁₉		9 10.6	200°94'	11°6'	30.3 17	272603	2005 WL ₇		9 10.6	111°20'	2°4'	12.8 18
8 9	23 42.20	-21 7.7	1.073	1.990	17.0	19.7	8 9	23 40.76	+ 3 28.8	1.699	2.555	15.0	20.5
8 19	23 37.40	-24 42.1	1.034	1.988	13.5	19.5	8 19	23 35.10	+ 3 19.3	1.637	2.564	11.3	20.3
8 29	23 29.31	-28 12.8	1.018	1.986	11.6	19.4	8 29	23 27.44	+ 2 53.0	1.596	2.573	7.2	20.1
9 8	23 19.03	-31 16.8	1.026	1.982	12.8	19.5	9 8	23 18.58	+ 2 13.3	1.581	2.582	3.3	19.9
9 18	23 8.17	-33 35.6	1.056	1.978	15.9	19.7	9 18	23 9.50	+ 1 25.1	1.593	2.591	3.4	19.9
9 28	22 58.65	-35 0.0	1.107	1.973	19.6	19.9	9 28	23 1.27	+ 0 35.0	1.633	2.599	7.3	20.2
10 8	22 51.98	-35 31.5	1.174	1.967	23.1	20.1	10 8	22 54.79	- 0 10.6	1.697	2.607	11.2	20.4
10 18	22 48.98	-35 17.9	1.253	1.961	25.8	20.3	10 18	22 50.64	- 0 46.8	1.784	2.615	14.6	20.7
398042	2009 FC		9 10.6	211°99'	3°9'	6.1 18	283866	2003 WY ₁₀₂		9 10.6	316°03'	5°6'	14.3 18
8 9	23 40.05	-15 55.0	2.411	3.297	10.0	21.5	8 9	23 42.33	+ 7 29.8	1.610	2.451	16.4	20.2
8 19	23 34.20	-16 47.6	2.342	3.290	7.4	21.3	8 19	23 36.68	+ 8 25.1	1.525	2.436	13.2	19.9
8 29	23 26.80	-17 40.2	2.300	3.282	4.9	21.1	8 29	23 28.63	+ 9 3.5	1.461	2.421	9.5	19.7
9 8	23 18.43	-18 27.1	2.285	3.274	4.0	21.0	9 8	23 18.90	+ 9 23.9	1.421	2.407	6.4	19.5
9 18	23 9.84	-19 3.4	2.299	3.265	5.7	21.1	9 18	23 8.53	+ 9 26.7	1.407	2.394	5.9	19.4
9 28	23 1.82	-19 25.2	2.340	3.256	8.5	21.3	9 28	22 58.80	+ 9 15.6	1.418	2.381	8.7	19.5
10 8	22 55.09	-19 30.9	2.407	3.246	11.1	21.5	10 8	22 50.89	+ 8 56.8	1.454	2.368	12.5	19.7
10 18	22 50.17	-19 20.3	2.496	3.236	13.5	21.6	10 18	22 45.62	+ 8 36.6	1.512	2.356	16.1	19.9
520238	2014 DZ ₁₅₃		9 10.6	77°30'	2°0'	8.7 18	473391	2015 VC ₂₆		9 10.6	351°69'	3°5'	7.1 18
8 9	23 37.91	- 7 42.7	1.836										

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
328244	2008 <i>FW</i> ₇₆		9 10.6 25°34	1.7°/ 8.9	17		423339	2005 <i>GD</i> ₇₁		9 10.7 190°24	0.2°/10.5	17	
8 9	23 32.17	- 1 16.9	1.076	1.985	17.7	19.9	8 9	23 42.43	- 3 0.9	1.765	2.637	13.8	22.2
8 19	23 29.57	- 3 15.1	1.032	1.993	12.6	19.6	8 19	23 36.37	- 3 32.7	1.694	2.636	10.0	22.0
8 29	23 24.52	- 5 35.8	1.008	2.003	7.0	19.3	8 29	23 28.25	- 4 16.0	1.647	2.635	5.8	21.7
9 8	23 17.99	- 8 5.4	1.008	2.015	1.8	19.1	9 8	23 18.84	- 5 5.9	1.626	2.633	1.2	21.4
9 18	23 11.23	-10 27.7	1.032	2.027	5.7	19.4	9 18	23 9.11	- 5 56.4	1.634	2.630	3.5	21.6
9 28	23 5.60	-12 28.0	1.080	2.040	11.1	19.7	9 28	23 0.16	- 6 41.0	1.669	2.627	8.0	21.9
10 8	23 2.16	-13 57.1	1.149	2.054	15.9	20.0	10 8	22 52.93	- 7 14.7	1.729	2.623	12.0	22.1
10 18	23 1.46	-14 52.4	1.237	2.069	19.8	20.3	10 18	22 48.05	- 7 34.4	1.811	2.619	15.4	22.3
117441	2005 <i>AY</i> ₃₈		9 10.6 83°83	5.3°/ 5.3	18		480504	2015 <i>LN</i> ₃₈		9 10.7 34°84	0.2°/10.5	16	
8 9	23 38.45	-15 58.5	1.751	2.652	12.4	19.3	8 9	23 35.84	- 1 24.1	1.431	2.321	15.4	20.8
8 19	23 33.39	-17 20.7	1.706	2.660	9.1	19.1	8 19	23 31.76	- 2 17.9	1.382	2.332	11.1	20.5
8 29	23 26.43	-18 42.6	1.684	2.668	6.2	18.9	8 29	23 25.62	- 3 27.3	1.354	2.344	6.4	20.3
9 8	23 18.37	-19 55.5	1.689	2.677	5.4	18.9	9 8	23 18.27	- 4 45.1	1.350	2.357	1.3	20.0
9 18	23 10.16	-20 52.1	1.721	2.685	7.6	19.1	9 18	23 10.76	- 6 2.8	1.372	2.370	3.8	20.2
9 28	23 2.83	-21 27.3	1.778	2.693	10.7	19.3	9 28	23 4.19	- 7 11.6	1.420	2.384	8.5	20.5
10 8	22 57.21	-21 39.5	1.857	2.701	13.7	19.5	10 8	22 59.48	- 8 5.0	1.491	2.398	12.7	20.8
10 18	22 53.82	-21 29.7	1.956	2.710	16.3	19.7	10 18	22 57.15	- 8 39.5	1.583	2.413	16.2	21.1
125151	2001 <i>UB</i> ₈₂		9 10.6 299°01	0.2°/10.5	18		523206	2016 <i>VL</i> ₂₀		9 10.7 226°35	2.7°/ 7.8	18	
8 9	23 37.82	- 2 21.5	1.492	2.379	15.0	20.6	8 9	23 39.56	-12 38.6	2.426	3.309	10.1	21.9
8 19	23 33.45	- 2 56.9	1.412	2.361	11.0	20.3	8 19	23 33.83	-13 5.7	2.356	3.304	7.3	21.7
8 29	23 26.77	- 3 47.7	1.354	2.344	6.4	20.0	8 29	23 26.60	-13 34.1	2.312	3.300	4.4	21.5
9 8	23 18.51	- 4 48.6	1.320	2.326	1.3	19.6	9 8	23 18.48	-13 59.6	2.296	3.295	2.7	21.4
9 18	23 9.70	- 5 52.2	1.312	2.309	4.0	19.8	9 18	23 10.16	-14 18.0	2.308	3.290	4.5	21.5
9 28	23 1.59	- 6 50.2	1.329	2.292	9.1	20.0	9 28	23 2.42	-14 26.2	2.349	3.285	7.4	21.7
10 8	22 55.31	- 7 35.2	1.370	2.276	13.7	20.3	10 8	22 55.94	-14 22.3	2.416	3.280	10.3	21.9
10 18	22 51.61	- 8 2.9	1.431	2.259	17.7	20.5	10 18	22 51.21	-14 5.8	2.506	3.274	12.7	22.0
318033	2004 <i>EN</i> ₄₈		9 10.6 159°17	1.6°/ 9.2	17		51270	2000 <i>JK</i> ₇₃		9 10.7 98°44	2.2°/12.7	18	
8 9	23 41.88	- 6 35.3	1.777	2.659	13.2	21.7	8 9	23 40.35	+ 2 52.6	2.002	2.852	13.3	19.3
8 19	23 35.85	- 7 16.9	1.716	2.664	9.5	21.5	8 19	23 34.56	+ 2 50.3	1.940	2.865	10.0	19.1
8 29	23 27.87	- 8 6.6	1.678	2.669	5.3	21.3	8 29	23 27.07	+ 2 34.6	1.902	2.877	6.4	18.9
9 8	23 18.70	- 8 58.5	1.668	2.673	1.7	21.1	9 8	23 18.59	+ 2 8.0	1.890	2.890	2.9	18.7
9 18	23 9.31	- 9 46.2	1.685	2.677	4.3	21.3	9 18	23 9.95	+ 1 34.4	1.905	2.902	3.1	18.7
9 28	23 0.76	-10 23.9	1.729	2.680	8.4	21.5	9 28	23 2.05	+ 0 58.6	1.949	2.915	6.5	19.0
10 8	22 53.93	-10 47.6	1.798	2.683	12.1	21.7	10 8	22 55.66	+ 0 25.9	2.020	2.927	9.9	19.2
10 18	22 49.40	-10 55.6	1.889	2.685	15.3	22.0	10 18	22 51.27	- 0 0.0	2.113	2.938	12.9	19.4
257406	2009 <i>ST</i> ₃₃₄		9 10.6 326°63	1.1°/12.8	17		421506	2014 <i>OF</i> ₉₀		9 10.7 297°33	4.1°/15.0	17	
8 9	23 30.10	+ 2 34.2	4.038	4.878	7.3	20.1	8 9	23 36.58	+ 9 16.2	2.177	3.000	13.3	21.0
8 19	23 26.57	+ 2 16.1	3.955	4.875	5.5	20.0	8 19	23 31.93	+ 9 22.4	2.092	2.992	10.6	20.9
8 29	23 22.27	+ 1 50.8	3.898	4.872	3.5	19.8	8 29	23 25.65	+ 9 11.6	2.029	2.984	7.6	20.7
9 8	23 17.51	+ 1 20.1	3.869	4.869	1.6	19.7	9 8	23 18.31	+ 8 44.8	1.991	2.976	4.9	20.5
9 18	23 12.62	+ 0 45.9	3.869	4.866	1.6	19.7	9 18	23 10.64	+ 8 4.7	1.980	2.968	4.3	20.4
9 28	23 8.00	+ 0 10.8	3.900	4.864	3.6	19.8	9 28	23 3.48	+ 7 15.8	1.997	2.961	6.5	20.6
10 8	23 4.00	+ 0 22.7	3.958	4.861	5.6	20.0	10 8	22 57.59	+ 6 24.1	2.040	2.953	9.5	20.7
10 18	23 0.91	- 0 52.4	4.043	4.858	7.4	20.1	10 18	22 53.52	+ 5 35.1	2.107	2.946	12.4	20.9
318541	2005 <i>GS</i> ₂		9 10.6 121°34	1.8°/ 9.1	17		78427	2002 <i>QY</i> ₄₅		9 10.7 280°56	1.2°/11.5	18	
8 9	23 42.26	- 6 25.8	1.611	2.496	14.1	21.5	8 9	23 42.63	- 1 8.0	1.457	2.334	15.9	19.2
8 19	23 36.20	- 7 17.3	1.559	2.509	10.1	21.3	8 19	23 36.93	- 1 7.0	1.385	2.328	11.8	19.0
8 29	23 28.08	- 8 17.6	1.531	2.522	5.7	21.1	8 29	23 28.78	- 1 19.9	1.335	2.321	7.1	18.7
9 8	23 18.76	- 9 19.7	1.529	2.535	1.9	20.9	9 8	23 19.01	- 1 43.0	1.309	2.314	2.2	18.4
9 18	23 9.30	-10 16.2	1.555	2.547	4.6	21.1	9 18	23 8.77	- 2 11.3	1.309	2.307	3.7	18.4
9 28	23 0.83	-11 0.6	1.607	2.558	8.9	21.4	9 28	22 59.41	- 2 38.6	1.335	2.301	8.7	18.7
10 8	22 54.26	-11 28.9	1.683	2.569	12.8	21.6	10 8	22 52.07	- 2 58.8	1.384	2.294	13.3	19.0
10 18	22 50.13	-11 39.5	1.781	2.579	16.0	21.9	10 18	22 47.50	- 3 7.9	1.455	2.288	17.2	19.2
91084	1998 <i>FT</i> ₁₁₈		9 10.7 230°28	0.2°/10.5	18		353473	2011 <i>SF</i> ₂₈		9 10.7 7°45	3.1°/ 9.1	18	
8 9	23 41.23	- 3 35.1	2.121	2.988	12.0	20.2	8 9	23 41.59	-12 4.0	1.120	2.033	16.8	19.1
8 19	23 35.30	- 3 57.5	2.037	2.977	8.8	20.0	8 19	23 36.42	-11 51.5	1.072	2.034	12.2	18.8
8 29	23 27.58	- 4 29.0	1.977	2.964	5.1	19.8	8 29	23 28.49	-11 40.6	1.044	2.038	7.1	18.6
9 8	23 18.68	- 5 5.9	1.945	2.951	1.0	19.5	9 8	23 18.92	-11 25.3	1.039	2.043	3.2	18.4
9 18	23 9.43	- 5 43.6	1.941	2.937	3.1	19.6	9 18	23 9.17	-11 0.9	1.057	2.050	6.0	18.5
9 28	23 0.73	- 6 17.1	1.966	2.923	7.1	19.8	9 28	23 0.78	-10 24.1	1.098	2.058	11.0	18.9
10 8	22 53.43	- 6 42.3	2.018	2.908	10.7	20.0	10 8	22 54.93	- 9 34.2	1.161	2.069	15.5	19.2
10 18	22 48.12	- 6 56.2	2.092	2.893	13.8	20.2	10 18	22 52.20	- 8 32.4	1.243	2.081	19.3	19.4
361471	2007 <i>DK</i> ₃₉		9 10.7 268°39	0.6°/ 9.9	18		449760	2014 <i>OG</i> ₄₉		9 10.7 333°89	3.1°/ 7.2	18	
8 9	23 34.45	- 3 9.9	2.231	3.107	11.1	20.5	8 9	23 36.14	-11 43.9	2.086	2.980	11.0	20.8
8 19	23 30.25	- 4 9.0	2.160	3.105	8.0	20.3	8 19	23 31.57	-12 38.7	2.023	2.977	7.9	20.6
8 29	23 24.59	- 5 18.4	2.114	3.104	4.5	20.1	8 29	23 25.40	-13 37.0	1.984	2.974	4.7	20.4
9 8	23 18.04	- 6 33.0	2.096	3.102	1.0	19.8	9 8	23 18.25	-14 32.8	1.972	2.971	3.1	20.3
9 18	23 11.26	- 7 47.0	2.106	3.101	3.2	20.0	9 18	23 10.88	-15 20.2	1.988	2.968	5.2	20.4
9 28	23 5.02	- 8 54.3	2.144	3.099	6.7	20.2	9 28	23 4.14	-15 54.5	2.031	2.966	8.4	20.6
10 8	22 59.99	- 9 50.0	2.209	3.097	10.0	20.4	10 8	22 58.75	-16 12.8	2.098	2.964	11.5	20.8
10 18	22 56.65	-10 31.3	2.296	3.096	12.8	20.6	10 18	22 55.23	-16 14.3	2.187	2.962	14.1	21.0
511114	2013 <i>WX</i> ₂₄		9 10.7 250°85	0.7°/11.4	18		425030						

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
405661	2005 <i>UR</i> ₁₀₅		9 10.7 238°23	3°9/ 5.9 18			223990	2005 <i>CH</i> ₂₄		9 10.7 272°67	3°2/14.1 18		
8 9	23 38.00	-16 6.9	2.528	3.416	9.6	21.8	8 9	23 37.48	+ 6 47.8	2.431	3.258	11.9	20.1
8 19	23 32.74	-17 0.1	2.456	3.404	7.0	21.6	8 19	23 32.50	+ 6 53.4	2.336	3.242	9.4	19.9
8 29	23 26.02	-17 53.4	2.410	3.393	4.7	21.5	8 29	23 25.98	+ 6 45.2	2.264	3.226	6.5	19.7
9 8	23 18.39	-18 41.4	2.392	3.380	3.9	21.4	9 8	23 18.45	+ 6 24.3	2.219	3.210	3.9	19.5
9 18	23 10.51	-19 19.4	2.402	3.368	5.6	21.5	9 18	23 10.57	+ 5 53.2	2.202	3.194	3.5	19.5
9 28	23 3.14	-19 43.5	2.440	3.355	8.2	21.6	9 28	23 3.09	+ 5 15.6	2.214	3.177	5.9	19.6
10 8	22 56.95	-19 51.8	2.504	3.342	10.8	21.8	10 8	22 56.73	+ 4 36.4	2.252	3.161	8.9	19.8
10 18	22 52.43	-19 44.2	2.588	3.328	13.1	21.9	10 18	22 52.06	+ 4 0.1	2.315	3.144	11.8	19.9
415283	2013 <i>FU</i> ₁₉		9 10.7 20°06	3°8/ 8.3 17			482283	2011 <i>SH</i> ₂₂₇		9 10.7 282°37	3°0/13.6 18		
8 9	23 36.61	- 8 43.9	0.827	1.757	19.3	19.9	8 9	23 37.29	+ 5 41.4	1.935	2.781	13.8	21.5
8 19	23 33.30	- 9 38.1	0.793	1.764	13.8	19.6	8 19	23 32.63	+ 5 32.5	1.852	2.771	10.7	21.3
8 29	23 26.86	-10 42.9	0.776	1.773	7.9	19.3	8 29	23 26.16	+ 5 6.4	1.791	2.761	7.2	21.1
9 8	23 18.59	-11 46.2	0.779	1.783	3.8	19.2	9 8	23 18.50	+ 4 25.4	1.755	2.752	3.8	20.9
9 18	23 10.15	-12 35.9	0.802	1.795	7.4	19.4	9 18	23 10.46	+ 3 33.5	1.746	2.742	3.5	20.8
9 28	23 3.30	-13 2.7	0.846	1.808	13.0	19.8	9 28	23 2.99	+ 2 36.4	1.765	2.732	6.8	21.0
10 8	22 59.30	-13 3.1	0.909	1.823	18.0	20.1	10 8	22 56.94	+ 1 40.9	1.809	2.722	10.5	21.2
10 18	22 58.67	-12 38.0	0.988	1.839	22.1	20.5	10 18	22 52.93	+ 0 52.5	1.877	2.713	13.8	21.4
261578	2005 <i>WM</i> ₂₁₀		9 10.7 87°62	8°5/31.5 18			521411	2015 <i>MJ</i> ₁₄₅		9 10.7 153°87	1°3/12.1 18		
8 9	23 40.07	-30 41.6	2.216	3.094	11.1	20.3	8 9	23 37.33	+ 1 46.6	1.954	2.814	13.1	21.8
8 19	23 34.36	-32 0.1	2.185	3.103	9.4	20.2	8 19	23 32.53	+ 1 16.6	1.883	2.815	9.8	21.6
8 29	23 26.94	-33 6.3	2.179	3.113	8.5	20.1	8 29	23 26.02	+ 0 32.0	1.835	2.817	6.0	21.3
9 8	23 18.58	-33 53.2	2.198	3.122	8.8	20.2	9 8	23 18.45	+ 0 23.1	1.814	2.818	2.2	21.1
9 18	23 10.15	-34 16.5	2.242	3.131	10.1	20.3	9 18	23 10.63	+ 1 23.6	1.820	2.819	2.8	21.1
9 28	23 2.58	-34 14.4	2.310	3.141	11.9	20.4	9 28	23 3.46	+ 2 23.1	1.855	2.820	6.7	21.4
10 8	22 56.60	-33 48.3	2.398	3.150	13.7	20.6	10 8	22 57.72	+ 3 15.8	1.915	2.821	10.4	21.6
10 18	22 52.70	-33 1.2	2.504	3.159	15.3	20.7	10 18	22 53.96	+ 3 57.3	1.998	2.822	13.6	21.8
451132	2009 <i>PR</i> ₂		9 10.7 45°13	4°4/13.8 18			398301	2010 <i>VL</i> ₂₁₁		9 10.7 26°55	1°2/11.8 18		
8 9	23 46.64	+ 5 37.1	1.854	2.686	14.9	19.4	8 9	23 39.20	+ 0 28.4	2.037	2.900	12.6	20.8
8 19	23 39.22	+ 6 38.2	1.794	2.702	11.6	19.2	8 19	23 33.81	+ 0 29.2	1.968	2.902	9.3	20.6
8 29	23 29.81	+ 7 24.8	1.758	2.719	8.1	19.1	8 29	23 26.72	+ 0 40.6	1.921	2.904	5.7	20.4
9 8	23 19.22	+ 7 56.6	1.748	2.736	5.1	18.9	9 8	23 18.60	+ 0 59.9	1.902	2.906	1.9	20.1
9 18	23 8.44	+ 8 14.4	1.766	2.754	4.8	18.9	9 18	23 10.25	+ 1 23.4	1.910	2.908	2.8	20.2
9 28	22 58.58	+ 8 21.5	1.813	2.772	7.4	19.1	9 28	23 2.55	+ 1 46.7	1.946	2.911	6.6	20.5
10 8	22 50.51	+ 8 22.2	1.885	2.790	10.6	19.4	10 8	22 56.28	+ 2 5.7	2.009	2.913	10.1	20.7
10 18	22 44.82	+ 8 21.2	1.981	2.808	13.5	19.6	10 18	22 51.97	+ 2 17.0	2.094	2.916	13.1	20.9
314520	2005 <i>YP</i> ₄		9 10.7 182°79	2°9/ 6.7 18			430698	2004 <i>BD</i> ₉₀		9 10.7 230°88	4°3/ 5.5 18		
8 9	23 37.29	-14 6.6	2.873	3.756	8.7	21.9	8 9	23 38.52	+ 10 12.5	1.836	2.728	12.3	20.6
8 19	23 32.02	-14 53.8	2.809	3.756	6.3	21.7	8 19	23 33.68	+ 12 26.7	1.763	2.717	8.8	20.4
8 29	23 25.52	-15 41.6	2.771	3.756	3.9	21.6	8 29	23 26.84	+ 14 51.2	1.716	2.704	5.5	20.2
9 8	23 18.29	-16 25.8	2.762	3.756	3.0	21.5	9 8	23 18.66	+ 17 15.3	1.698	2.692	4.4	20.1
9 18	23 10.92	-17 2.4	2.783	3.755	4.5	21.6	9 18	23 10.03	+ 19 27.6	1.709	2.678	7.1	20.2
9 28	23 4.02	-17 28.0	2.832	3.754	6.9	21.7	9 28	23 1.99	+ 21 18.4	1.748	2.664	10.8	20.4
10 8	22 58.16	-17 41.0	2.907	3.752	9.3	21.9	10 8	22 55.49	+ 22 42.0	1.811	2.649	14.3	20.6
10 18	22 53.76	-17 40.8	3.005	3.750	11.3	22.1	10 18	22 51.22	+ 23 36.7	1.894	2.634	17.2	20.8
512352	2016 <i>NS</i> ₁₈		9 10.7 52°18	15°9/30.1 17			124142	2001 <i>ME</i> ₂		9 10.7 102°77	12°9/27.8 17		
8 9	23 39.08	+35 10.2	1.400	2.087	25.2	21.1	8 9	23 38.33	+ 22 2.6	0.991	1.917	17.2	18.8
8 19	23 34.79	+36 23.4	1.346	2.100	23.1	21.0	8 19	23 34.73	+ 26 27.2	0.964	1.920	14.0	18.6
8 29	23 27.71	+36 53.4	1.302	2.114	20.8	20.8	8 29	23 27.89	+ 30 42.1	0.961	1.923	12.9	18.6
9 8	23 18.82	+36 34.2	1.273	2.129	18.6	20.7	9 8	23 18.91	+ 34 20.3	0.982	1.927	14.6	18.7
9 18	23 9.49	+35 24.1	1.261	2.143	16.8	20.7	9 18	23 9.44	+ 37 2.6	1.024	1.930	17.8	18.9
9 28	23 1.30	+33 28.4	1.268	2.158	15.9	20.7	9 28	23 1.37	+ 38 41.5	1.085	1.933	21.3	19.1
10 8	22 55.53	+31 0.0	1.295	2.174	16.3	20.7	10 8	22 56.17	+ 39 21.2	1.161	1.936	24.3	19.4
10 18	22 52.91	+28 14.8	1.342	2.189	17.6	20.9	10 18	22 54.57	+ 39 11.4	1.248	1.939	26.7	19.6
183115	2002 <i>RP</i> ₁₄₇		9 10.7 335°64	0°9/ 9.9 18			55773	1993 <i>BG</i> ₆		9 10.7 254°97	1°0/11.4 18		
8 9	23 38.11	- 3 47.6	1.296	2.193	16.1	20.1	8 9	23 41.75	+ 0 18.2	1.326	2.207	16.8	18.7
8 19	23 33.82	- 4 29.2	1.233	2.188	11.7	19.9	8 19	23 36.47	+ 0 36.6	1.259	2.204	12.5	18.5
8 29	23 27.05	- 5 25.8	1.190	2.183	6.7	19.6	8 29	23 28.60	+ 1 12.4	1.213	2.200	7.5	18.2
9 8	23 18.68	- 6 30.4	1.171	2.178	1.4	19.2	9 8	23 19.05	+ 2 0.8	1.191	2.196	2.2	17.8
9 18	23 9.90	- 7 34.2	1.177	2.174	4.6	19.4	9 18	23 9.04	+ 2 54.8	1.194	2.193	3.9	17.9
9 28	23 2.06	- 8 28.2	1.207	2.170	9.9	19.7	9 28	23 0.00	+ 3 45.8	1.222	2.189	9.2	18.3
10 8	22 56.32	- 9 5.5	1.260	2.167	14.6	20.0	10 8	22 53.14	+ 4 26.3	1.273	2.185	14.1	18.5
10 18	22 53.38	- 9 22.9	1.331	2.164	18.6	20.3	10 18	22 49.17	+ 4 51.6	1.344	2.181	18.2	18.8
119111	2001 <i>OK</i> ₇₁		9 10.7 7°70	3°6/ 8.3 18			59747	1999 <i>LV</i> ₁₃		9 10.7 67°24	7°0/17.9 18		
8 9	23 35.24	- 9 36.6	0.967	1.892	17.6	18.0	8 9	23 38.53	+ 16 7.5	1.605	2.409	18.1	18.3
8 19	23 32.12	-10 18.0	0.923	1.893	12.7	17.8	8 19	23 33.66	+ 16 11.6	1.547	2.426	14.9	18.1
8 29	23 26.16	-11 7.8	0.899	1.895	7.3	17.5	8 29	23 26.74	+ 15 47.3	1.509	2.443	11.5	17.9
9 8	23 18.48	-11 56.1	0.896	1.900	3.6	17.3	9 8	23 18.61	+ 14 55.4	1.493	2.461	8.4	17.8
9 18	23 10.54	-12 32.8	0.914	1.906	7.0	17.5	9 18	23 10.28	+ 13 40.2	1.501	2.478	7.0	17.8
9 28	23 3.93	-12 50.1	0.954	1.914	12.2	17.8	9 28	23 2.87	+ 12 10.0	1.536	2.496	8.4	17.9
10 8	22 59.84	-12 44.4	1.013	1.924	16.9	18.1	10 8	22 57.29	+ 10 34.8	1.595	2.513	11.3	18.1
10 18	22 58.87	-12 15.9	1.090	1.936	20.9	18.4	10 18	22 54.08	+ 9 3.9	1.677	2.531	14.3	18.3
331357	2012 <i>CV</i> ₅₂		9 10.7 110°20	1°5/ 9.5 17									

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
88597	2001 <i>QS</i> ₂₇₀		9 10.7 331°11	2°9/ 8.4 18			513308	2007 <i>DX</i> ₁₀		9 10.7 63°33	0°6/ 9.9 18		
8 9	23 38.34	- 8 22.0	1.340	2.244	15.2	19.2	8 9	23 34.08	- 0 32.4	2.096	2.967	11.9	20.8
8 19	23 33.94	- 9 16.3	1.278	2.237	11.0	19.0	8 19	23 30.02	- 2 14.8	2.040	2.982	8.6	20.6
8 29	23 27.12	-10 20.3	1.237	2.230	6.3	18.7	8 29	23 24.51	- 4 10.5	2.009	2.998	4.8	20.4
9 8	23 18.72	-11 25.7	1.220	2.224	2.9	18.5	9 8	23 18.15	- 6 12.3	2.007	3.013	1.0	20.2
9 18	23 9.93	-12 23.3	1.229	2.219	6.0	18.6	9 18	23 11.65	- 8 11.9	2.034	3.029	3.3	20.4
9 28	23 2.08	-13 5.0	1.261	2.214	10.7	18.9	9 28	23 5.79	-10 1.3	2.091	3.045	7.0	20.6
10 8	22 56.30	-13 26.0	1.316	2.209	15.1	19.2	10 8	23 1.20	-11 34.4	2.175	3.060	10.3	20.9
10 18	22 53.26	-13 25.0	1.390	2.205	18.8	19.4	10 18	22 58.33	-12 47.6	2.282	3.076	13.1	21.1
353209	2009 <i>SC</i> ₃₅₄		9 10.7 322°51	0°7/ 9.3 17			262714	2006 <i>XQ</i> ₁₄		9 10.7 343°85	7°2/ 3.0 18		
8 9	23 29.73	- 6 25.7	4.178	5.050	6.5	20.8	8 9	23 37.91	-22 22.2	1.817	2.718	12.0	20.1
8 19	23 26.33	- 7 0.2	4.103	5.047	4.6	20.7	8 19	23 33.15	-23 44.4	1.768	2.714	9.4	19.9
8 29	23 22.19	- 7 38.3	4.055	5.045	2.6	20.5	8 29	23 26.45	-25 1.0	1.742	2.711	7.5	19.8
9 8	23 17.62	- 8 17.7	4.036	5.042	0.7	20.4	9 8	23 18.59	-26 3.4	1.742	2.709	7.5	19.8
9 18	23 12.93	- 8 55.9	4.047	5.039	2.0	20.5	9 18	23 10.50	-26 44.7	1.767	2.706	9.4	19.9
9 28	23 8.51	- 9 30.4	4.088	5.037	4.1	20.6	9 28	23 3.22	-27 0.9	1.816	2.704	12.0	20.1
10 8	23 4.68	- 9 59.2	4.157	5.034	6.0	20.8	10 8	22 57.64	-26 51.6	1.887	2.703	14.7	20.3
10 18	23 1.72	-10 20.8	4.250	5.032	7.7	20.9	10 18	22 54.29	-26 19.0	1.976	2.701	17.0	20.4
159658	2002 <i>EV</i> ₅₆		9 10.7 315°74	0°1/10.6 17			81209	2000 <i>FQ</i> ₁₅		9 10.7 291°54	3°2/ 8.2 18		
8 9	23 29.95	- 3 16.9	4.177	5.040	6.7	19.7	8 9	23 40.27	- 9 30.4	1.449	2.348	14.6	19.0
8 19	23 26.48	- 3 44.8	4.100	5.037	4.8	19.6	8 19	23 35.41	-10 20.1	1.372	2.329	10.6	18.7
8 29	23 22.28	- 4 17.5	4.048	5.035	2.7	19.4	8 29	23 28.05	-11 18.5	1.318	2.310	6.2	18.4
9 8	23 17.64	- 4 52.8	4.026	5.033	0.6	19.2	9 8	23 19.00	-12 17.7	1.288	2.291	3.2	18.2
9 18	23 12.89	- 5 28.6	4.034	5.030	1.6	19.3	9 18	23 9.36	-13 9.2	1.284	2.272	6.1	18.3
9 28	23 8.40	- 6 2.2	4.071	5.028	3.8	19.5	9 28	23 0.49	-13 45.3	1.304	2.253	10.8	18.5
10 8	23 4.50	- 6 31.7	4.137	5.025	5.7	19.6	10 8	22 53.58	-14 1.0	1.347	2.234	15.3	18.7
10 18	23 1.47	- 6 55.2	4.228	5.023	7.5	19.8	10 18	22 49.43	-13 55.0	1.409	2.215	19.1	18.9
515662	2014 <i>OE</i> ₂₀₁		9 10.7 41°05	5°1/ 4.2 18			195126	2002 <i>CY</i> ₁₅₈		9 10.7 281°87	1°5/ 7.5 17		
8 9	23 34.47	-15 52.7	1.977	2.879	11.1	20.8	8 9	23 29.84	-10 50.0	4.234	5.116	6.2	20.1
8 19	23 30.44	-17 38.4	1.933	2.888	8.1	20.6	8 19	23 26.43	-11 33.7	4.160	5.109	4.4	19.9
8 29	23 24.80	-19 24.1	1.914	2.897	5.7	20.5	8 29	23 22.28	-12 19.4	4.114	5.102	2.6	19.8
9 8	23 18.19	-21 1.5	1.923	2.906	5.3	20.5	9 8	23 17.68	-13 4.4	4.096	5.096	1.5	19.7
9 18	23 11.42	-22 22.8	1.958	2.915	7.4	20.6	9 18	23 12.97	-13 46.1	4.108	5.089	2.7	19.8
9 28	23 5.35	-23 22.6	2.020	2.925	10.2	20.8	9 28	23 8.50	-14 22.0	4.150	5.083	4.6	19.9
10 8	23 0.68	-23 58.8	2.105	2.935	12.9	21.0	10 8	23 4.63	-14 50.3	4.219	5.076	6.4	20.0
10 18	22 57.92	-24 11.8	2.209	2.945	15.1	21.2	10 18	23 1.63	-15 9.7	4.313	5.070	7.9	20.2
516329	2017 <i>BY</i> ₁₅		9 10.7 74°90	2°6/13.8 18			260534	2005 <i>EB</i> ₁₄₅		9 10.7 76°54	1°6/ 9.6 17		
8 9	23 36.03	+ 5 42.1	2.364	3.201	11.9	20.9	8 9	23 43.81	- 6 39.5	1.351	2.243	15.9	20.7
8 19	23 31.35	+ 5 32.8	2.290	3.205	9.2	20.7	8 19	23 37.65	- 7 8.3	1.304	2.257	11.4	20.4
8 29	23 25.25	+ 5 9.7	2.240	3.208	6.2	20.6	8 29	23 29.10	- 7 46.0	1.279	2.271	6.4	20.2
9 8	23 18.29	+ 4 34.9	2.216	3.211	3.3	20.4	9 8	23 19.17	- 8 25.9	1.279	2.285	1.8	20.0
9 18	23 11.13	+ 3 51.6	2.220	3.215	3.0	20.4	9 18	23 9.12	- 9 0.9	1.304	2.299	4.8	20.2
9 28	23 4.49	+ 3 4.5	2.252	3.218	5.7	20.6	9 28	23 0.30	- 9 24.7	1.355	2.313	9.6	20.5
10 8	22 59.03	+ 2 18.6	2.312	3.222	8.7	20.8	10 8	22 53.71	- 9 33.5	1.429	2.326	13.9	20.8
10 18	22 55.21	+ 1 38.0	2.395	3.225	11.4	20.9	10 18	22 49.91	- 9 26.1	1.523	2.340	17.4	21.1
373449	1999 <i>VQ</i> ₁₂₉		9 10.7 197°89	1°3/11.8 17			484241	2007 <i>EL</i> ₁₈₁		9 10.7 151°71	2°3/13.9 18		
8 9	23 41.07	+ 1 7.8	1.722	2.585	14.5	21.8	8 9	23 35.04	+ 6 54.4	2.807	3.632	10.6	22.2
8 19	23 35.49	+ 0 42.8	1.649	2.583	10.8	21.5	8 19	23 30.45	+ 6 22.7	2.732	3.639	8.2	22.1
8 29	23 27.84	+ 0 2.1	1.598	2.581	6.6	21.3	8 29	23 24.69	+ 5 37.6	2.680	3.645	5.5	21.9
9 8	23 18.87	- 0 50.0	1.573	2.578	2.2	21.0	9 8	23 18.21	+ 4 41.8	2.657	3.651	3.0	21.7
9 18	23 9.55	- 1 48.0	1.576	2.574	3.2	21.1	9 18	23 11.59	+ 3 38.6	2.662	3.657	2.6	21.7
9 28	23 0.98	- 2 44.7	1.606	2.571	7.6	21.3	9 28	23 5.41	+ 2 32.7	2.697	3.662	4.9	21.9
10 8	22 54.11	- 3 33.7	1.661	2.566	11.8	21.6	10 8	23 0.21	+ 1 28.9	2.761	3.667	7.6	22.1
10 18	22 49.58	- 4 10.3	1.739	2.562	15.3	21.8	10 18	22 56.40	+ 0 31.2	2.850	3.672	10.0	22.2
429423	2010 <i>US</i> ₅₂		9 10.7 252°05	2°0/14.7 16			279282	2009 <i>WF</i> ₃₅		9 10.7 297°45	0°6/ 9.5 16		
8 9	23 30.27	+ 7 24.1	4.410	5.222	7.2	21.5	8 9	23 30.83	- 7 2.3	4.370	5.241	6.2	21.0
8 19	23 26.70	+ 7 14.2	4.321	5.218	5.7	21.4	8 19	23 27.09	- 7 23.4	4.296	5.239	4.4	20.9
8 29	23 22.40	+ 6 56.1	4.257	5.214	3.9	21.3	8 29	23 22.64	- 7 47.3	4.248	5.237	2.5	20.7
9 8	23 17.67	+ 6 31.0	4.221	5.209	2.4	21.2	9 8	23 17.77	- 8 12.1	4.230	5.236	0.7	20.6
9 18	23 12.82	+ 6 0.4	4.215	5.205	2.1	21.1	9 18	23 12.79	- 8 35.8	4.242	5.234	1.9	20.7
9 28	23 8.21	+ 5 26.6	4.238	5.201	3.4	21.2	9 28	23 8.08	- 8 56.2	4.283	5.233	3.9	20.8
10 8	23 4.16	+ 4 52.0	4.290	5.196	5.1	21.4	10 8	23 3.95	- 9 11.7	4.353	5.231	5.7	20.9
10 18	23 0.94	+ 4 18.9	4.368	5.192	6.8	21.5	10 18	23 0.68	- 9 21.0	4.448	5.230	7.3	21.1
255406	2005 <i>WV</i> ₂₀₇		9 10.7 23°71	9°0/31.7 18			242143	2003 <i>BX</i>		9 10.7 271°06	12°9/24.3 18		
8 9	23 37.99	-28 5.4	1.823	2.717	12.3	19.3	8 9	23 42.96	-37 5.9	1.727	2.596	14.1	20.2
8 19	23 33.18	-29 37.6	1.790	2.722	10.2	19.2	8 19	23 37.55	-39 33.1	1.680	2.574	13.1	20.0
8 29	23 26.43	-30 58.0	1.780	2.728	9.1	19.1	8 29	23 29.38	-41 43.0	1.657	2.552	13.1	20.0
9 8	23 18.55	-31 58.1	1.795	2.734	9.4	19.2	9 8	23 19.30	-43 23.1	1.656	2.529	14.1	20.0
9 18	23 10.55	-32 31.7	1.833	2.740	11.1	19.3	9 18	23 8.59	-44 24.5	1.677	2.506	15.9	20.1
9 28	23 3.49	-32 36.4	1.895	2.747	13.2	19.5	9 28	22 58.79	-44 43.7	1.716	2.482	18.0	20.2
10 8	22 58.19	-32 13.5	1.976	2.755	15.4	19.6	10 8	22 51.22	-44 22.8	1.771	2.458	20.0	20.3
10 18	22 55.17	-31 26.4	2.074	2.763	17.3	19.8	10 18	22 46.70	-43 27.7	1.839	2.434	21.8	20.4
113869	2002 <i>TV</i> ₂₅₈		9 10.7 283°42	1°9/12.4 18			178206	2006 <i>VM</i> ₂₆					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
119892	2002 <i>CL</i> ₂₆₆		9 10.7	7°07'	3°1'	8.0 18	393406	2001 <i>AL</i> ₄₅		9 10.7	254°88'	3°1'	7.4 18
8 9	23 34.35	- 9 23.9	1.373	2.284	14.5	18.1	8 9	23 39.86	-10 57.0	2.098	2.984	11.3	22.3
8 19	23 30.89	-10 15.5	1.323	2.285	10.3	17.9	8 19	23 34.49	-11 57.7	2.013	2.963	8.2	22.0
8 29	23 25.27	-11 14.3	1.294	2.288	6.0	17.6	8 29	23 27.29	-13 4.1	1.953	2.942	4.9	21.8
9 8	23 18.37	-12 12.0	1.290	2.293	3.1	17.5	9 8	23 18.86	-14 9.8	1.920	2.920	3.1	21.7
9 18	23 11.24	-13 0.6	1.309	2.298	5.9	17.7	9 18	23 9.99	-15 8.4	1.916	2.897	5.3	21.8
9 28	23 5.05	-13 33.2	1.354	2.305	10.2	17.9	9 28	23 1.63	-15 53.8	1.940	2.873	8.8	21.9
10 8	23 0.75	-13 46.2	1.420	2.314	14.1	18.2	10 8	22 54.65	-16 22.4	1.988	2.849	12.2	22.1
10 18	22 58.89	-13 38.6	1.505	2.323	17.5	18.4	10 18	22 49.68	-16 32.6	2.058	2.825	15.2	22.3
358913	2008 <i>GB</i> ₁₂₈		9 10.7	206°29'	3°1'	7.4 18	333310	2001 <i>GC</i> ₁		9 10.7	152°22'	8°5'	2.1 17
8 9	23 41.13	-14 3.6	2.393	3.276	10.2	21.3	8 9	23 39.88	-13 18.6	1.091	2.009	16.7	19.6
8 19	23 35.03	-14 34.0	2.325	3.272	7.4	21.1	8 19	23 35.55	-16 58.4	1.050	2.013	12.2	19.4
8 29	23 27.39	-15 4.9	2.282	3.268	4.6	21.0	8 29	23 28.27	-20 46.2	1.033	2.018	8.9	19.2
9 8	23 18.81	-15 31.4	2.268	3.264	3.2	20.9	9 8	23 19.09	-24 18.5	1.042	2.022	9.3	19.2
9 18	23 10.04	-15 49.5	2.282	3.259	4.9	21.0	9 18	23 9.46	-27 14.5	1.076	2.025	12.8	19.4
9 28	23 1.89	-15 56.0	2.325	3.255	7.8	21.1	9 28	23 1.08	-29 21.2	1.132	2.028	17.1	19.7
10 8	22 55.04	-15 49.1	2.393	3.249	10.6	21.3	10 8	22 55.26	-30 36.4	1.207	2.030	20.9	20.0
10 18	22 50.01	-15 28.9	2.484	3.244	13.0	21.5	10 18	22 52.73	-31 5.2	1.297	2.032	23.9	20.2
68863	2002 <i>JS</i> ₆		9 10.7	355°31'	3°4'	6.6 18	183263	2002 <i>TG</i> ₂₁₅		9 10.7	15°18'	6°2'	6.2 17 R
8 9	23 35.42	-12 22.9	2.142	3.036	10.7	19.2	8 9	23 39.92	-15 26.0	1.185	2.100	15.9	18.9
8 19	23 31.07	-13 31.9	2.081	3.036	7.7	19.1	8 19	23 35.24	-16 34.5	1.140	2.102	11.7	18.7
8 29	23 25.18	-14 44.0	2.047	3.035	4.7	18.9	8 29	23 27.91	-17 43.4	1.117	2.106	7.7	18.5
9 8	23 18.34	-15 52.8	2.039	3.035	3.5	18.8	9 8	23 18.99	-18 41.6	1.116	2.109	6.3	18.4
9 18	23 11.30	-16 52.2	2.059	3.035	5.5	18.9	9 18	23 9.84	-19 19.6	1.139	2.114	9.0	18.6
9 28	23 4.87	-17 37.1	2.106	3.034	8.5	19.1	9 28	23 1.95	-19 31.5	1.185	2.119	13.1	18.9
10 8	22 59.74	-18 4.6	2.177	3.034	11.5	19.3	10 8	22 56.45	-19 16.2	1.250	2.125	17.0	19.1
10 18	22 56.40	-18 13.9	2.270	3.034	14.0	19.5	10 18	22 53.93	-18 36.3	1.333	2.132	20.3	19.4
9413	Eichendorff		9 10.7	8°44'	4°6'	7.7 18 R	118903	2000 <i>US</i> ₇₂		9 10.7	348°53'	1°0'	11.4 18
8 9	23 36.53	-11 4.8	0.971	1.896	17.6	16.9	8 9	23 37.99	- 2 22.3	1.451	2.339	15.3	17.8
8 19	23 33.11	-11 57.5	0.928	1.897	12.7	16.7	8 19	23 33.61	- 2 9.1	1.380	2.328	11.3	17.5
8 29	23 26.79	-12 56.9	0.904	1.899	7.5	16.4	8 29	23 26.95	- 2 7.6	1.331	2.319	6.8	17.3
9 8	23 18.72	-13 52.0	0.901	1.903	4.6	16.3	9 8	23 18.80	- 2 14.6	1.305	2.311	2.0	16.9
9 18	23 10.38	-14 32.0	0.920	1.909	7.8	16.5	9 18	23 10.23	- 2 25.9	1.304	2.304	3.5	17.0
9 28	23 3.40	-14 49.3	0.961	1.916	12.8	16.8	9 28	23 2.47	- 2 36.1	1.329	2.298	8.4	17.3
10 8	22 58.99	-14 40.9	1.020	1.924	17.5	17.1	10 8	22 56.59	- 2 40.4	1.377	2.293	12.9	17.6
10 18	22 57.76	-14 8.1	1.097	1.934	21.4	17.4	10 18	22 53.28	- 2 35.2	1.445	2.290	16.7	17.8
407917	2012 <i>CH</i> ₁₀		9 10.7	151°07'	1°8'	12.9 18	384507	2010 <i>CL</i> ₁₂₀		9 10.7	173°59'	2°9'	7.7 18
8 9	23 37.74	+ 3 0.0	2.714	3.553	10.5	21.8	8 9	23 38.61	- 9 27.8	1.900	2.790	12.1	21.1
8 19	23 32.45	+ 2 53.1	2.640	3.559	7.9	21.6	8 19	23 33.54	-10 37.5	1.839	2.792	8.7	20.8
8 29	23 25.85	+ 2 35.8	2.591	3.565	5.1	21.5	8 29	23 26.67	-11 53.4	1.802	2.793	5.0	20.6
9 8	23 18.49	+ 2 10.1	2.570	3.570	2.4	21.3	9 8	23 18.71	-13 8.4	1.793	2.794	2.9	20.5
9 18	23 10.96	+ 1 38.9	2.579	3.575	2.4	21.3	9 18	23 10.51	-14 15.4	1.811	2.795	5.2	20.7
9 28	23 3.91	+ 1 5.8	2.616	3.580	5.1	21.5	9 28	23 3.03	-15 8.2	1.856	2.795	8.8	20.9
10 8	22 57.93	+ 0 34.7	2.682	3.584	7.9	21.7	10 8	22 57.07	-15 43.1	1.926	2.795	12.2	21.1
10 18	22 53.44	+ 0 8.6	2.772	3.589	10.4	21.9	10 18	22 53.18	-15 58.8	2.017	2.795	15.1	21.3
391185	2006 <i>BR</i> ₂₁₆		9 10.7	267°62'	4°8'	5.8 17	210364	2007 <i>UX</i> ₉₁		9 10.7	213°26'	1°8'	12.6 18 R
8 9	23 36.19	- 3 18.7	1.047	1.956	18.0	20.0	8 9	23 37.81	+ 3 12.1	2.146	2.996	12.5	21.0
8 19	23 33.09	- 6 43.2	0.979	1.944	12.8	19.7	8 19	23 32.85	+ 2 47.7	2.066	2.991	9.5	20.8
8 29	23 27.03	-10 42.6	0.935	1.931	7.3	19.3	8 29	23 26.26	+ 2 9.1	2.010	2.987	6.0	20.6
9 8	23 18.84	-14 55.9	0.917	1.918	5.1	19.1	9 8	23 18.63	+ 1 19.1	1.981	2.982	2.6	20.3
9 18	23 9.89	-18 56.1	0.925	1.904	9.8	19.4	9 18	23 10.71	+ 0 22.2	1.979	2.977	2.8	20.3
9 28	23 1.87	-22 18.4	0.958	1.891	15.7	19.6	9 28	23 3.35	- 0 35.8	2.006	2.972	6.3	20.6
10 8	22 56.28	-24 49.0	1.012	1.877	20.9	19.9	10 8	22 57.29	- 1 29.4	2.060	2.966	9.8	20.8
10 18	22 54.07	-26 25.8	1.081	1.863	25.1	20.2	10 18	22 53.07	- 2 13.9	2.137	2.960	12.8	21.0
258621	2002 <i>CF</i> ₃₁₆		9 10.7	293°22'	0°1'	10.9 18	19871	6058 <i>P-L</i>		9 10.7	29°70'	0°6'	11.1 18
8 9	23 30.73	- 2 48.5	4.418	5.275	6.4	20.7	8 9	23 42.20	- 3 19.0	1.196	2.090	17.4	17.9
8 19	23 27.03	- 3 4.1	4.339	5.273	4.7	20.6	8 19	23 36.72	- 3 9.1	1.151	2.102	12.7	17.7
8 29	23 22.62	- 3 24.2	4.286	5.271	2.7	20.5	8 29	23 28.68	- 3 12.1	1.126	2.116	7.4	17.4
9 8	23 17.79	- 3 47.0	4.263	5.269	0.6	20.3	9 8	23 19.15	- 3 23.3	1.123	2.130	1.8	17.1
9 18	23 12.86	- 4 10.6	4.269	5.267	1.5	20.4	9 18	23 9.49	- 3 37.1	1.146	2.145	3.9	17.3
9 28	23 8.17	- 4 32.9	4.306	5.265	3.5	20.5	9 28	23 1.11	- 3 47.7	1.192	2.160	9.2	17.7
10 8	23 4.06	- 4 52.0	4.371	5.263	5.4	20.6	10 8	22 55.11	- 3 49.9	1.261	2.177	13.8	18.0
10 18	23 0.78	- 5 6.4	4.462	5.260	7.1	20.8	10 18	22 52.05	- 3 41.0	1.350	2.194	17.7	18.3
257826	2000 <i>GQ</i> ₁₅₅		9 10.7	135°36'	1°8'	9.1 17	142675	2002 <i>TN</i> ₂₂₂		9 10.7	6°94'	2°1'	12.7 18
8 9	23 41.33	- 6 42.0	1.776	2.659	13.2	21.2	8 9	23 36.16	+ 3 39.1	1.698	2.561	14.7	19.6
8 19	23 35.50	- 7 32.4	1.720	2.669	9.4	21.0	8 19	23 31.95	+ 3 10.5	1.630	2.562	11.1	19.4
8 29	23 27.78	- 8 30.9	1.688	2.679	5.3	20.8	8 29	23 25.85	+ 2 23.8	1.583	2.562	7.0	19.2
9 8	23 18.92	- 9 31.0	1.682	2.688	1.8	20.6	9 8	23 18.55	+ 1 22.9	1.561	2.563	3.0	18.9
9 18	23 9.89	-10 26.0	1.705	2.696	4.4	20.8	9 18	23 10.97	+ 0 13.7	1.565	2.564	3.2	18.9
9 28	23 1.72	-11 9.9	1.754	2.704	8.4	21.1	9 28	23 4.10	- 0 56.1	1.597	2.566	7.2	19.2
10 8	22 55.25	-11 38.8	1.829	2.712	12.0	21.3	10 8	22 58.82	- 1 59.2	1.653	2.567	11.2	19.4
10 18	22 51.02	-11 51.1	1.925	2.719	15.1	21.5	10 18	22 55.72	- 2 50.1	1.732	2.570	14.7	19.7
23099	1999 <i>XA</i> ₁₆₀		9 10.7	239°74'	7°4'	30.9 18	152086	2004 <i>RT</i> ₃₄		9 10.7			

EPHEMERIDES

9 10.7

9 10.7

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
491868	2013 <i>BL</i> ₁		9 10.7 331°47	0°4/10.1	16		337357	2001 <i>PK</i> ₇		9 10.7 271°89	16°9/25.9	17	
8 9	23 30.96	- 5 14.6	4.154	5.021	6.6	21.4	8 9	23 39.65	+31 49.9	1.277	2.000	25.7	19.9
8 19	23 27.24	- 5 36.2	4.079	5.020	4.7	21.3	8 19	23 35.83	+33 11.2	1.195	1.985	23.7	19.7
8 29	23 22.78	- 6 1.7	4.030	5.018	2.7	21.1	8 29	23 28.82	+33 51.4	1.126	1.971	21.4	19.5
9 8	23 17.86	- 6 28.9	4.011	5.017	0.6	20.9	9 8	23 19.37	+33 40.5	1.070	1.956	19.1	19.3
9 18	23 12.84	- 6 55.7	4.021	5.016	1.8	21.0	9 18	23 8.82	+32 32.5	1.032	1.940	17.4	19.1
9 28	23 8.09	- 7 19.8	4.061	5.015	3.9	21.2	9 28	22 59.03	+30 29.3	1.012	1.925	17.0	19.0
10 8	23 3.96	- 7 39.4	4.129	5.013	5.9	21.3	10 8	22 51.73	+27 43.4	1.011	1.910	18.1	19.1
10 18	23 0.71	- 7 52.8	4.222	5.012	7.6	21.5	10 18	22 48.06	+24 33.6	1.030	1.894	20.5	19.2
13571	1993 <i>FT</i> ₇		9 10.7 340°47	1°2/ 9.7	18		306702	2000 <i>VQ</i> ₅₂		9 10.7 315°14	3°6/ 8.2	18	
8 9	23 35.22	- 2 54.9	1.240	2.141	16.4	17.9	8 9	23 40.63	-11 16.9	1.383	2.287	14.9	19.9
8 19	23 31.86	- 4 1.0	1.177	2.134	11.9	17.6	8 19	23 35.87	-11 47.1	1.303	2.262	10.9	19.6
8 29	23 26.05	- 5 25.6	1.134	2.128	6.7	17.3	8 29	23 28.48	-12 22.8	1.245	2.237	6.5	19.3
9 8	23 18.63	- 7 0.3	1.115	2.122	1.5	17.0	9 8	23 19.24	-12 56.8	1.210	2.213	3.6	19.1
9 18	23 10.78	- 8 33.9	1.120	2.116	4.9	17.2	9 18	23 9.32	-13 21.3	1.201	2.189	6.4	19.2
9 28	23 3.85	- 9 55.2	1.150	2.112	10.3	17.5	9 28	23 0.16	-13 29.6	1.215	2.166	11.2	19.4
10 8	22 58.97	-10 55.7	1.201	2.108	15.1	17.8	10 8	22 53.07	-13 18.1	1.252	2.144	15.8	19.6
10 18	22 56.87	-11 31.4	1.271	2.105	19.2	18.0	10 18	22 48.88	-12 46.4	1.307	2.122	19.8	19.8
487825	2015 <i>TL</i> ₆₇		9 10.7 348°74	2°2/12.8	17		282284	2002 <i>PW</i> ₆₃		9 10.7 26°05	0°4/10.4	18	
8 9	23 36.23	+ 2 48.9	1.805	2.668	13.9	21.1	8 9	23 32.76	+ 0 16.3	1.268	2.163	16.5	19.6
8 19	23 31.95	+ 2 44.9	1.731	2.663	10.6	20.9	8 19	23 29.82	- 1 13.3	1.223	2.176	12.0	19.3
8 29	23 25.84	+ 2 25.7	1.680	2.658	6.8	20.7	8 29	23 24.72	- 3 3.2	1.198	2.190	6.8	19.1
9 8	23 18.57	+ 1 53.9	1.653	2.654	3.1	20.4	9 8	23 18.35	- 5 3.4	1.198	2.205	1.4	18.8
9 18	23 10.96	+ 1 13.9	1.652	2.650	3.2	20.4	9 18	23 11.81	- 7 1.9	1.223	2.221	4.2	19.0
9 28	23 4.01	+ 0 31.4	1.679	2.647	7.0	20.7	9 28	23 6.26	- 8 46.8	1.273	2.237	9.2	19.4
10 8	22 58.55	- 0 7.7	1.730	2.645	10.8	20.9	10 8	23 2.61	-10 9.6	1.346	2.255	13.7	19.7
10 18	22 55.17	- 0 38.6	1.804	2.643	14.1	21.1	10 18	23 1.40	-11 6.3	1.439	2.274	17.3	20.0
219095	1998 <i>SB</i>		9 10.7 326°93	8°4/22.0	18		320095	2007 <i>EF</i> ₉₉		9 10.7 174°20	1°2/ 9.3	18	
8 9	23 31.80	+24 57.1	1.924	2.665	17.6	19.6	8 9	23 38.05	- 7 18.3	2.639	3.512	9.7	21.3
8 19	23 28.89	+24 27.2	1.821	2.645	15.4	19.4	8 19	23 32.71	- 7 48.3	2.570	3.514	6.9	21.1
8 29	23 24.17	+23 22.8	1.736	2.626	12.8	19.2	8 29	23 26.07	- 8 23.1	2.527	3.516	3.9	20.9
9 8	23 18.22	+21 42.3	1.673	2.608	10.3	19.0	9 8	23 18.64	- 8 59.0	2.512	3.517	1.3	20.7
9 18	23 11.85	+19 28.1	1.633	2.590	8.6	18.8	9 18	23 11.04	- 9 32.2	2.526	3.518	3.1	20.9
9 28	23 6.02	+16 47.6	1.621	2.572	8.8	18.8	9 28	23 3.96	- 9 59.1	2.570	3.519	6.1	21.1
10 8	23 1.61	+13 52.9	1.636	2.556	10.9	18.9	10 8	22 57.97	-10 16.8	2.640	3.519	9.0	21.2
10 18	22 59.27	+10 57.5	1.676	2.540	13.8	19.0	10 18	22 53.53	-10 24.0	2.735	3.519	11.4	21.4
270140	2001 <i>SV</i> ₅		9 10.7 256°34	1°6/11.3	17 R		221362	2005 <i>WC</i> ₁₅₈		9 10.7 41°50	2°7/ 7.9	18	
8 9	23 56.22	- 4 19.6	1.154	2.032	19.1	20.0	8 9	23 36.72	- 9 51.0	1.858	2.752	12.1	19.5
8 19	23 47.70	- 3 18.5	1.080	2.023	14.4	19.7	8 19	23 32.10	-10 44.6	1.811	2.766	8.6	19.3
8 29	23 35.52	- 2 24.0	1.027	2.013	8.7	19.4	8 29	23 25.82	-11 42.7	1.789	2.780	5.0	19.1
9 8	23 20.77	- 1 35.1	0.998	2.004	2.7	19.0	9 8	23 18.58	-12 38.9	1.793	2.794	2.7	19.0
9 18	23 5.18	- 0 50.6	0.996	1.994	4.7	19.1	9 18	23 11.25	-13 27.0	1.824	2.809	4.9	19.2
9 28	22 50.85	- 0 8.4	1.019	1.984	10.9	19.4	9 28	23 4.70	-14 2.0	1.881	2.825	8.4	19.4
10 8	22 39.53	+ 0 34.3	1.065	1.973	16.5	19.7	10 8	22 59.67	-14 21.0	1.963	2.840	11.6	19.6
10 18	22 32.19	+ 1 20.0	1.131	1.963	21.2	20.0	10 18	22 56.62	-14 23.3	2.066	2.856	14.4	19.9
28968	Gongmiaoxin		9 10.7 87°52	0°2/10.5	18		479516	2014 <i>BW</i> ₂₁		9 10.7 346°22	2°5/ 8.2	18	
8 9	23 39.82	- 3 12.7	1.854	2.729	13.1	19.3	8 9	23 36.87	- 6 59.8	1.672	2.566	13.3	20.8
8 19	23 34.33	- 3 42.2	1.799	2.743	9.5	19.1	8 19	23 32.51	- 8 18.7	1.611	2.565	9.5	20.6
8 29	23 27.09	- 4 21.7	1.768	2.756	5.4	18.9	8 29	23 26.22	- 9 47.7	1.573	2.565	5.4	20.4
9 8	23 18.83	- 5 6.4	1.763	2.769	1.1	18.6	9 8	23 18.70	-11 18.8	1.561	2.565	2.5	20.2
9 18	23 10.43	- 5 51.0	1.785	2.782	3.2	18.8	9 18	23 10.91	-12 43.2	1.576	2.564	5.2	20.4
9 28	23 2.84	- 6 29.7	1.836	2.795	7.3	19.1	9 28	23 3.87	-13 52.9	1.618	2.564	9.3	20.6
10 8	22 56.84	- 6 58.4	1.911	2.808	10.9	19.3	10 8	22 58.47	-14 42.9	1.683	2.564	13.1	20.8
10 18	22 52.93	- 7 14.5	2.009	2.821	13.9	19.6	10 18	22 55.31	-15 11.1	1.770	2.564	16.2	21.1
93611	2000 <i>UZ</i> ₆₂		9 10.7 264°00	1°3/11.8	18		202508	2006 <i>BH</i> ₁₆₅		9 10.7 55°02	0°8/11.4	18	
8 9	23 40.12	+ 0 18.3	1.784	2.649	13.9	20.0	8 9	23 38.92	- 0 17.1	1.612	2.487	14.7	20.9
8 19	23 34.88	+ 0 5.3	1.702	2.638	10.4	19.7	8 19	23 34.00	- 0 45.0	1.550	2.492	10.8	20.7
8 29	23 27.61	- 0 21.6	1.644	2.627	6.4	19.5	8 29	23 27.07	- 1 27.6	1.511	2.497	6.5	20.5
9 8	23 18.99	- 0 59.1	1.610	2.615	2.2	19.2	9 8	23 18.89	- 2 20.2	1.496	2.502	1.8	20.2
9 18	23 9.93	- 1 42.2	1.604	2.603	3.1	19.2	9 18	23 10.46	- 3 16.3	1.509	2.507	3.3	20.3
9 28	23 1.51	- 2 25.0	1.626	2.591	7.5	19.5	9 28	23 2.86	- 4 9.0	1.547	2.513	7.8	20.6
10 8	22 54.69	- 3 1.6	1.672	2.579	11.6	19.7	10 8	22 57.01	- 4 51.9	1.610	2.518	11.9	20.9
10 18	22 50.13	- 3 27.7	1.741	2.567	15.2	19.9	10 18	22 53.50	- 5 21.2	1.695	2.524	15.4	21.1
308985	2006 <i>UA</i> ₁		9 10.7 309°98	1°1/ 9.7	18		123930	2001 <i>EP</i> ₆		9 10.7 21°93	5°2/ 7.1	18	
8 9	23 36.83	- 4 56.0	1.881	2.765	12.5	20.7	8 9	23 46.46	-19 55.9	1.852	2.738	12.5	18.4
8 19	23 32.32	- 5 40.0	1.810	2.759	9.0	20.5	8 19	23 39.14	-20 1.3	1.800	2.745	9.4	18.2
8 29	23 26.04	- 6 34.0	1.763	2.754	5.1	20.3	8 29	23 29.84	-20 0.6	1.773	2.751	6.5	18.0
9 8	23 18.63	- 7 32.4	1.742	2.748	1.3	20.0	9 8	23 19.46	-19 48.6	1.771	2.759	5.2	18.0
9 18	23 10.93	- 8 29.1	1.748	2.743	3.7	20.2	9 18	23 9.06	-19 21.6	1.798	2.766	6.9	18.1
9 28	23 3.86	- 9 18.0	1.782	2.738	7.8	20.4	9 28	22 59.70	-18 38.5	1.852	2.775	9.9	18.3
10 8	22 58.26	- 9 54.2	1.840	2.733	11.5	20.6	10 8	22 52.26	-17 40.4	1.930	2.783	12.9	18.5
10 18	22 54.69	-10 15.0	1.920	2.728	14.7	20.8	10 18	22 47.22	-16 29.5	2.030	2.793	15.5	18.7
229952	1998 <i>XM</i> ₂₅		9 10.7 335°56	9°8/17.9	18		67572	2000 <i>SU</i> ₁₀₆					

EPHEMERIDES

9 10.7

9 10.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
324194	2006 <i>AN</i> ₆₈		9 10.7 321°95	0°6/11.4	18		387134	2012 <i>TE</i> ₁₉₅		9 10.8 215°71	1°3/ 9.4	18	
8 9	23 36.30	- 0 57.8	2.037	2.907	12.3	21.2	8 9	23 40.09	- 6 18.2	2.011	2.890	12.0	21.9
8 19	23 31.86	- 1 20.9	1.961	2.900	9.1	21.0	8 19	23 34.62	- 6 57.8	1.938	2.884	8.7	21.7
8 29	23 25.76	- 1 55.5	1.907	2.893	5.4	20.7	8 29	23 27.37	- 7 45.3	1.889	2.878	4.9	21.5
9 8	23 18.61	- 2 38.1	1.880	2.886	1.5	20.5	9 8	23 18.98	- 8 35.6	1.866	2.872	1.5	21.2
9 18	23 11.17	- 3 23.9	1.881	2.879	2.8	20.6	9 18	23 10.30	- 9 23.1	1.873	2.866	3.8	21.4
9 28	23 4.29	- 4 7.5	1.909	2.873	6.7	20.8	9 28	23 2.25	-10 2.3	1.907	2.859	7.7	21.6
10 8	22 58.74	- 4 44.0	1.963	2.867	10.3	21.0	10 8	22 55.65	-10 29.3	1.967	2.851	11.3	21.8
10 18	22 55.07	- 5 9.7	2.040	2.861	13.4	21.2	10 18	22 51.08	-10 41.9	2.049	2.843	14.3	22.0
209698	2005 <i>EW</i> ₄₄		9 10.7 307°31	0°5/10.4	18		231870	2000 <i>SZ</i> ₃₆₄		9 10.8 39°77	0°1/10.6	18	
8 9	23 41.07	- 4 57.7	1.708	2.589	13.7	20.1	8 9	23 32.91	- 1 5.1	2.639	3.504	10.0	19.9
8 19	23 35.59	- 5 7.5	1.635	2.581	10.0	19.9	8 19	23 29.06	- 2 9.1	2.566	3.505	7.2	19.7
8 29	23 28.03	- 5 26.2	1.585	2.574	5.7	19.6	8 29	23 24.01	- 3 23.3	2.519	3.506	4.2	19.5
9 8	23 19.12	- 5 49.5	1.560	2.567	1.2	19.3	9 8	23 18.23	- 4 43.4	2.500	3.507	0.9	19.3
9 18	23 9.85	- 6 12.6	1.563	2.560	3.6	19.5	9 18	23 12.27	- 6 4.3	2.511	3.508	2.5	19.4
9 28	23 1.33	- 6 30.3	1.592	2.553	8.1	19.7	9 28	23 6.75	- 7 20.5	2.551	3.509	5.7	19.6
10 8	22 54.51	- 6 38.4	1.646	2.546	12.2	19.9	10 8	23 2.21	- 8 27.5	2.619	3.510	8.6	19.8
10 18	22 50.05	- 6 34.6	1.722	2.540	15.6	20.2	10 18	22 59.07	- 9 22.1	2.711	3.511	11.1	20.0
294459	2007 <i>VO</i> ₃₁₁		9 10.7 327°32	2°2/ 8.9	18		188636	2005 <i>QL</i> ₈₂		9 10.8 323°36	2°8/ 8.3	18	
8 9	23 38.73	- 8 36.6	1.676	2.570	13.3	20.1	8 9	23 36.21	- 6 41.3	1.330	2.234	15.3	19.5
8 19	23 33.91	- 9 9.9	1.607	2.561	9.6	19.9	8 19	23 32.53	- 7 58.5	1.265	2.225	11.0	19.2
8 29	23 27.06	- 9 49.9	1.562	2.553	5.5	19.6	8 29	23 26.46	- 9 29.6	1.221	2.215	6.2	18.9
9 8	23 18.91	-10 30.8	1.541	2.546	2.2	19.4	9 8	23 18.82	-11 4.9	1.202	2.206	2.8	18.7
9 18	23 10.42	-11 6.3	1.547	2.538	4.8	19.6	9 18	23 10.72	-12 33.7	1.207	2.197	6.0	18.9
9 28	23 2.68	-11 30.5	1.580	2.532	9.0	19.8	9 28	23 3.48	-13 45.6	1.237	2.189	10.9	19.1
10 8	22 56.64	-11 40.0	1.636	2.525	12.9	20.0	10 8	22 58.22	-14 34.0	1.289	2.182	15.4	19.4
10 18	22 52.90	-11 33.1	1.712	2.519	16.2	20.2	10 18	22 55.65	-14 56.4	1.360	2.175	19.2	19.6
51633	2001 <i>HX</i> ₄₆		9 10.7 143°77	4°4/ 7.3	18		314472	2005 <i>WX</i> ₇₂		9 10.8 298°61	3°2/ 7.4	18	
8 9	23 43.87	-13 36.7	1.565	2.460	13.9	19.4	8 9	23 37.99	-12 16.4	2.036	2.928	11.3	20.3
8 19	23 37.65	-14 25.8	1.511	2.464	10.1	19.2	8 19	23 33.12	-13 1.3	1.963	2.916	8.2	20.1
8 29	23 29.18	-15 16.6	1.480	2.468	6.3	19.0	8 29	23 26.51	-13 49.3	1.915	2.904	5.0	19.8
9 8	23 19.36	-16 1.2	1.475	2.472	4.4	18.9	9 8	23 18.80	-14 34.6	1.894	2.893	3.2	19.7
9 18	23 9.33	-16 32.6	1.496	2.475	6.7	19.0	9 18	23 10.78	-15 11.6	1.900	2.881	5.3	19.8
9 28	23 0.32	-16 45.7	1.543	2.478	10.5	19.3	9 28	23 3.37	-15 35.5	1.933	2.870	8.7	20.0
10 8	22 53.33	-16 38.9	1.613	2.481	14.2	19.5	10 8	22 57.37	-15 43.6	1.991	2.858	11.9	20.2
10 18	22 48.95	-16 13.1	1.703	2.484	17.3	19.7	10 18	22 53.35	-15 35.1	2.070	2.847	14.7	20.4
219110	1998 <i>SV</i> ₇₀		9 10.7 309°22	3°1/ 8.5	18		490306	2009 <i>BL</i> ₃₀		9 10.8 290°58	3°2/ 7.7	18	
8 9	23 40.81	- 9 45.8	1.352	2.254	15.2	20.1	8 9	23 38.12	- 9 38.8	1.723	2.618	12.9	21.9
8 19	23 35.94	-10 22.2	1.281	2.239	11.1	19.8	8 19	23 33.61	-10 42.4	1.640	2.595	9.3	21.7
8 29	23 28.48	-11 6.0	1.231	2.223	6.5	19.5	8 29	23 27.00	-11 54.5	1.581	2.573	5.5	21.4
9 8	23 19.26	-11 49.8	1.205	2.208	3.1	19.2	9 8	23 18.95	-13 7.8	1.548	2.550	3.2	21.2
9 18	23 9.49	-12 25.5	1.204	2.194	6.1	19.4	9 18	23 10.38	-14 14.2	1.542	2.526	5.8	21.3
9 28	23 0.60	-12 45.9	1.227	2.180	10.9	19.6	9 28	23 2.39	-15 6.1	1.561	2.503	9.9	21.5
10 8	22 53.83	-12 47.0	1.273	2.166	15.5	19.9	10 8	22 56.01	-15 38.7	1.604	2.480	13.8	21.7
10 18	22 49.94	-12 27.8	1.337	2.153	19.4	20.1	10 18	22 51.94	-15 49.9	1.668	2.457	17.3	21.9
72615	2001 <i>FK</i> ₂₁		9 10.7 328°37	10°6/ 1.3	18		352604	2008 <i>ES</i> ₈₇		9 10.8 92°59	3°1/ 6.9	18	
8 9	23 40.75	-27 56.2	1.444	2.345	14.5	17.2	8 9	23 37.00	-11 1.9	2.245	3.133	10.6	20.9
8 19	23 35.87	-29 20.1	1.391	2.329	12.1	17.0	8 19	23 32.07	-12 22.2	2.202	3.153	7.5	20.7
8 29	23 28.38	-30 32.1	1.360	2.314	10.7	16.9	8 29	23 25.74	-13 45.3	2.185	3.173	4.5	20.6
9 8	23 19.22	-31 20.8	1.351	2.300	11.0	16.8	9 8	23 18.61	-15 4.9	2.196	3.193	3.1	20.5
9 18	23 9.68	-31 37.9	1.365	2.287	13.0	16.9	9 18	23 11.40	-16 14.9	2.236	3.213	5.0	20.7
9 28	23 1.22	-31 19.7	1.400	2.274	15.8	17.1	9 28	23 4.86	-17 10.4	2.304	3.232	7.9	20.9
10 8	22 55.01	-30 28.0	1.454	2.262	18.6	17.2	10 8	22 59.61	-17 48.6	2.397	3.251	10.7	21.1
10 18	22 51.73	-29 8.0	1.523	2.251	21.2	17.4	10 18	22 56.09	-18 9.1	2.512	3.269	13.0	21.3
454439	2014 <i>OZ</i> ₂₄		9 10.7 15°60	0°6/10.2	15		221632	2006 <i>YX</i> ₅₁		9 10.8 359°76	0°9/11.4	18	
8 9	23 35.34	- 4 0.0	1.628	2.519	13.7	21.1	8 9	23 32.81	- 0 29.2	0.956	1.868	19.1	19.4
8 19	23 31.35	- 4 32.4	1.574	2.525	9.9	20.8	8 19	23 30.55	- 0 49.7	0.903	1.863	14.2	19.1
8 29	23 25.51	- 5 15.7	1.542	2.533	5.6	20.6	8 29	23 25.49	- 1 32.5	0.868	1.860	8.5	18.8
9 8	23 18.56	- 6 4.2	1.534	2.541	1.2	20.3	9 8	23 18.63	- 2 30.9	0.853	1.859	2.4	18.5
9 18	23 11.42	- 6 51.6	1.554	2.550	3.6	20.5	9 18	23 11.32	- 3 35.3	0.859	1.860	4.3	18.6
9 28	23 5.10	- 7 31.8	1.599	2.561	7.9	20.8	9 28	23 5.17	- 4 34.2	0.888	1.862	10.3	19.0
10 8	23 0.40	- 7 59.8	1.668	2.572	11.8	21.1	10 8	23 1.43	- 5 18.0	0.936	1.867	15.7	19.3
10 18	22 57.86	- 8 13.2	1.758	2.584	15.0	21.3	10 18	23 0.81	- 5 41.2	1.001	1.873	20.3	19.6
268857	2006 <i>XC</i> ₆₂		9 10.8 265°33	1°4/ 9.5	18		516223	2016 <i>UU</i> ₃		9 10.8 240°11	2°5/ 8.6	18	
8 9	23 40.04	- 5 19.1	1.622	2.509	14.0	20.9	8 9	23 43.30	-11 3.5	1.995	2.878	12.0	21.9
8 19	23 35.04	- 6 7.1	1.543	2.494	10.2	20.7	8 19	23 36.97	-11 25.7	1.921	2.869	8.7	21.7
8 29	23 27.83	- 7 7.2	1.487	2.478	5.8	20.4	8 29	23 28.74	-11 50.8	1.871	2.860	5.1	21.5
9 8	23 19.11	- 8 12.9	1.456	2.462	1.6	20.1	9 8	23 19.30	-12 13.8	1.848	2.850	2.5	21.3
9 18	23 9.89	- 9 16.8	1.452	2.446	4.5	20.2	9 18	23 9.55	-12 30.1	1.853	2.841	4.7	21.4
9 28	23 1.35	-10 10.9	1.475	2.430	9.2	20.5	9 28	23 0.49	-12 35.5	1.887	2.831	8.4	21.6
10 8	22 54.56	-10 49.5	1.522	2.414	13.5	20.7	10 8	22 52.99	-12 27.9	1.946	2.820	11.8	21.8
10 18	22 50.23	-11 9.4	1.589	2.397	17.2	20.9	10 18	22 47.67	-12 6.6	2.027	2.810	14.8	22.0
139640	2001 <i>QZ</i> ₁₆₂		9 10.8 8°92	2°2/12.9	18		480720	2015 <i>T</i>					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
317769	2003 SA ₁₀₅		9 10.8 61°45'	5°9'/18.7	18		224688	2006 AQ ₉₆		9 10.8 222°76'	0°4'/10.2	18	
8 9	23 34.89	+17 46.3	2.206	2.982	14.6	19.9	8 9	23 35.19	- 2 55.2	2.723	3.589	9.7	20.9
8 19	23 30.71	+17 30.7	2.138	2.996	12.2	19.8	8 19	23 30.74	- 3 46.5	2.641	3.581	7.0	20.7
8 29	23 25.04	+16 51.8	2.089	3.010	9.5	19.6	8 29	23 25.02	- 4 46.6	2.585	3.573	4.0	20.5
9 8	23 18.48	+15 50.9	2.065	3.024	7.1	19.5	9 8	23 18.52	- 5 51.5	2.557	3.564	0.8	20.2
9 18	23 11.76	+14 31.3	2.067	3.038	5.9	19.5	9 18	23 11.79	- 6 56.7	2.559	3.555	2.6	20.4
9 28	23 5.65	+12 59.4	2.096	3.052	6.8	19.5	9 28	23 5.46	- 7 57.4	2.591	3.546	5.7	20.6
10 8	23 0.82	+11 22.6	2.152	3.067	9.0	19.7	10 8	23 0.11	- 8 49.5	2.650	3.536	8.6	20.7
10 18	22 57.74	+ 9 48.4	2.234	3.081	11.5	19.9	10 18	22 56.19	- 9 30.2	2.733	3.526	11.1	20.9
465688	2009 SE ₂₅₈		9 10.8 351°68'	1°0'/12.8	17		420433	2012 DS ₂₉		9 10.8 158°74'	2°1'/ 9.1	17	
8 9	23 29.66	+ 3 21.3	3.953	4.791	7.5	21.3	8 9	23 44.51	- 8 7.7	1.724	2.606	13.5	22.0
8 19	23 26.41	+ 2 42.6	3.871	4.790	5.6	21.2	8 19	23 37.96	- 8 45.7	1.664	2.612	9.7	21.8
8 29	23 22.38	+ 1 55.6	3.815	4.789	3.6	21.0	8 29	23 29.35	- 9 30.3	1.628	2.618	5.5	21.6
9 8	23 17.90	+ 1 2.5	3.787	4.788	1.5	20.9	9 8	23 19.48	-10 15.3	1.619	2.623	2.1	21.4
9 18	23 13.29	+ 0 5.9	3.790	4.788	1.6	20.9	9 18	23 9.39	-10 54.5	1.637	2.628	4.6	21.6
9 28	23 8.95	- 0 51.0	3.822	4.787	3.6	21.1	9 28	23 0.20	-11 22.2	1.683	2.631	8.8	21.8
10 8	23 5.23	- 1 45.3	3.884	4.786	5.7	21.2	10 8	22 52.86	-11 35.3	1.753	2.635	12.6	22.1
10 18	23 2.42	- 2 34.2	3.972	4.786	7.6	21.3	10 18	22 47.93	-11 32.7	1.845	2.637	15.7	22.3
57064	2001 NW ₆		9 10.8 328°40'	1°9'/11.9	18		144340	2004 DG ₃₂		9 10.8 118°09'	2°6'/13.2	17	
8 9	23 38.51	+ 0 10.7	1.016	1.916	19.3	19.1	8 9	23 41.25	+ 4 53.5	1.698	2.548	15.3	20.4
8 19	23 34.88	+ 0 14.7	0.948	1.901	14.6	18.8	8 19	23 35.60	+ 4 31.0	1.638	2.561	11.6	20.2
8 29	23 28.16	- 0 1.9	0.898	1.887	9.1	18.5	8 29	23 27.98	+ 3 49.9	1.600	2.574	7.5	20.0
9 8	23 19.28	- 0 35.7	0.869	1.874	3.2	18.1	9 8	23 19.17	+ 2 54.0	1.587	2.587	3.6	19.8
9 18	23 9.63	- 1 19.6	0.862	1.862	4.4	18.4	9 18	23 10.17	+ 1 49.0	1.601	2.599	3.4	19.8
9 28	23 1.00	- 2 3.9	0.877	1.851	10.6	18.4	9 28	23 2.03	+ 0 42.3	1.643	2.610	7.2	20.1
10 8	22 54.91	- 2 39.2	0.912	1.841	16.3	18.7	10 8	22 55.63	- 0 18.7	1.710	2.621	11.1	20.3
10 18	22 52.29	- 2 58.7	0.964	1.832	21.2	19.0	10 18	22 51.54	- 1 8.8	1.800	2.632	14.5	20.6
473304	2015 RV ₇₀		9 10.8 80°20'	0°1'/10.7	18		337973	2002 CH ₉₀		9 10.8 143°85'	2°2'/12.5	18	
8 9	23 35.40	- 1 17.0	2.120	2.990	11.8	20.6	8 9	23 44.60	+ 1 23.8	1.854	2.706	14.1	20.4
8 19	23 31.11	- 2 10.8	2.052	2.993	8.6	20.4	8 19	23 37.98	+ 1 40.1	1.785	2.711	10.6	20.2
8 29	23 25.29	- 3 16.4	2.009	2.996	5.0	20.2	8 29	23 29.36	+ 1 44.1	1.738	2.716	6.7	20.0
9 8	23 18.56	- 4 28.9	1.993	2.999	1.1	19.9	9 8	23 19.50	+ 1 37.6	1.719	2.720	3.0	19.8
9 18	23 11.61	- 5 42.4	2.005	3.003	2.9	20.1	9 18	23 9.37	+ 1 23.8	1.727	2.724	3.3	19.8
9 28	23 5.24	- 6 50.6	2.046	3.006	6.6	20.3	9 28	23 0.02	+ 1 7.1	1.763	2.728	7.1	20.0
10 8	23 0.16	- 7 48.2	2.113	3.009	10.0	20.6	10 8	22 52.36	+ 0 52.1	1.826	2.731	10.8	20.3
10 18	22 56.83	- 8 31.9	2.202	3.012	12.9	20.8	10 18	22 46.99	+ 0 42.8	1.911	2.734	14.1	20.5
377582	2005 NE ₃₄		9 10.8 304°02'	7°0'/ 3.8	18		479243	2013 DP ₁₆		9 10.8 243°00'	5°2'/ 4.3	18	
8 9	23 36.80	-15 54.9	1.364	2.278	14.3	20.4	8 9	23 39.34	-18 57.5	2.372	3.261	10.1	22.0
8 19	23 33.07	-17 54.2	1.301	2.261	10.7	20.1	8 19	23 34.01	-20 14.0	2.299	3.244	7.6	21.8
8 29	23 26.86	-19 58.4	1.260	2.244	7.7	19.9	8 29	23 27.04	-21 29.5	2.252	3.227	5.6	21.7
9 8	23 18.96	-21 54.5	1.244	2.228	7.4	19.8	9 8	23 19.00	-22 37.4	2.233	3.209	5.3	21.6
9 18	23 10.51	-23 29.7	1.252	2.212	10.2	20.0	9 18	23 10.62	-23 31.5	2.242	3.191	7.1	21.7
9 28	23 2.89	-24 34.5	1.283	2.196	14.1	20.2	9 28	23 2.76	-24 7.3	2.277	3.172	9.6	21.8
10 8	22 57.30	-25 5.2	1.335	2.181	17.9	20.4	10 8	22 56.16	-24 22.9	2.337	3.153	12.2	22.0
10 18	22 54.50	-25 2.6	1.402	2.166	21.1	20.5	10 18	22 51.39	-24 18.6	2.417	3.133	14.5	22.1
119063	2001 KF ₄₉		9 10.8 20°39'	3°2'/ 8.6	17		74392	1998 XN ₅₅		9 10.8 299°23'	4°8'/15.4	18	
8 9	23 37.05	- 8 23.8	0.986	1.906	17.8	18.2	8 9	23 37.01	+10 9.4	1.805	2.635	15.4	18.9
8 19	23 33.41	- 9 11.5	0.948	1.915	12.8	17.9	8 19	23 32.74	+10 11.7	1.716	2.620	12.4	18.7
8 29	23 26.98	-10 8.9	0.930	1.926	7.3	17.7	8 29	23 26.50	+ 9 52.6	1.648	2.605	9.0	18.5
9 8	23 18.95	-11 5.7	0.933	1.938	3.2	17.5	9 8	23 18.91	+ 9 12.8	1.604	2.590	5.9	18.3
9 18	23 10.76	-11 51.8	0.958	1.951	6.5	17.8	9 18	23 10.84	+ 8 15.4	1.586	2.575	5.0	18.2
9 28	23 3.96	-12 19.0	1.006	1.966	11.7	18.1	9 28	23 3.31	+ 7 6.7	1.594	2.560	7.5	18.3
10 8	22 59.67	-12 23.5	1.073	1.982	16.3	18.4	10 8	22 57.27	+ 5 54.7	1.627	2.546	11.0	18.5
10 18	22 58.42	-12 5.4	1.158	2.000	20.2	18.7	10 18	22 53.43	+ 4 46.9	1.683	2.532	14.5	18.7
166262	2002 GK ₆₈		9 10.8 54°69'	8°3'/ 2.9	18		511617	2015 BW ₂₅		9 10.8 183°00'	0°4'/11.2	17	
8 9	23 40.15	-21 19.7	1.430	2.337	14.2	18.5	8 9	23 41.42	- 0 52.1	1.782	2.649	13.9	22.7
8 19	23 34.92	-23 19.0	1.415	2.365	10.9	18.4	8 19	23 35.77	- 1 26.1	1.712	2.650	10.2	22.4
8 29	23 27.53	-25 8.5	1.423	2.394	8.6	18.4	8 29	23 28.14	- 2 13.8	1.665	2.650	6.0	22.2
9 8	23 19.03	-26 37.0	1.455	2.422	8.6	18.4	9 8	23 19.26	- 3 10.3	1.644	2.650	1.5	21.9
9 18	23 10.59	-27 36.6	1.512	2.451	10.7	18.6	9 18	23 10.07	- 4 9.5	1.651	2.649	3.2	22.0
9 28	23 3.41	-28 4.2	1.592	2.480	13.4	18.9	9 28	23 1.62	- 5 4.8	1.686	2.648	7.6	22.3
10 8	22 58.32	-28 1.3	1.692	2.509	16.1	19.1	10 8	22 54.82	- 5 50.1	1.746	2.646	11.6	22.5
10 18	22 55.78	-27 32.2	1.810	2.538	18.3	19.4	10 18	22 50.29	- 6 21.9	1.828	2.643	15.0	22.8
276485	2003 OR ₂₀		9 10.8 13°67'	0°7'/11.1	17		36107	1999 RV ₁₁₉		9 10.8 15°27'	3°4'/13.6	18	
8 9	23 42.04	- 4 32.9	0.885	1.798	20.1	19.0	8 9	23 41.55	+ 4 37.4	1.933	2.776	14.0	18.7
8 19	23 37.36	- 3 58.2	0.841	1.802	14.8	18.7	8 19	23 35.76	+ 5 7.2	1.860	2.777	10.8	18.5
8 29	23 29.43	- 3 36.4	0.815	1.808	8.7	18.4	8 29	23 28.09	+ 5 23.0	1.811	2.779	7.3	18.3
9 8	23 19.51	- 3 23.7	0.809	1.816	2.2	18.1	9 8	23 19.25	+ 5 25.8	1.787	2.781	4.2	18.2
9 18	23 9.32	- 3 14.9	0.825	1.825	4.6	18.3	9 18	23 10.10	+ 5 17.8	1.790	2.783	3.9	18.1
9 28	23 0.70	- 3 4.0	0.862	1.836	10.8	18.7	9 28	23 1.63	+ 5 3.0	1.821	2.786	6.9	18.3
10 8	22 55.03	- 2 46.2	0.919	1.848	16.2	19.0	10 8	22 54.70	+ 4 46.1	1.878	2.789	10.3	18.6
10 18	22 52.94	- 2 18.3	0.993	1.862	20.7	19.4	10 18	22 49.90	+ 4 31.7	1.958	2.792	13.4	18.8
278325	2007 HB ₅₄		9 10.8 215°81'	3°1'/ 7.2	18		104316	2000 FP ₁		9 10.8 287°51'	1°8'/ 9.5	18	
8 9	23 37.34												

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
65205	2002 <i>DW</i> ₁₂		9 10.8 219°19	0°0/10.9 18			295363	2008 <i>HX</i> ₄₉		9 10.8 204°78	0°6/11.3 18		
8 9	23 29.54	- 2 38.1	4.938	5.794	5.8	20.1	8 9	23 40.00	- 0 13.5	1.622	2.495	14.7	21.4
8 19	23 26.22	- 3 6.1	4.855	5.789	4.2	20.0	8 19	23 34.93	- 0 49.7	1.553	2.493	10.9	21.1
8 29	23 22.27	- 3 38.3	4.799	5.784	2.4	19.9	8 29	23 27.75	- 1 41.5	1.506	2.491	6.5	20.9
9 8	23 17.94	- 4 13.2	4.773	5.779	0.6	19.7	9 8	23 19.22	- 2 44.0	1.484	2.490	1.7	20.6
9 18	23 13.52	- 4 48.6	4.777	5.774	1.4	19.8	9 18	23 10.34	- 3 50.2	1.489	2.487	3.3	20.7
9 28	23 9.30	- 5 22.7	4.811	5.769	3.2	19.9	9 28	23 2.23	- 4 52.4	1.521	2.485	8.0	21.0
10 8	23 5.58	- 5 53.4	4.874	5.763	4.9	20.1	10 8	22 55.88	- 5 43.9	1.577	2.482	12.3	21.2
10 18	23 2.58	- 6 19.1	4.963	5.758	6.4	20.2	10 18	22 51.92	- 6 20.4	1.655	2.479	15.9	21.4
375	Ursula		9 10.8 26°12	2°1/12.5 18			263570	2008 <i>FV</i> ₇₅		9 10.8 227°68	2°6/ 8.3 18		
8 9	23 42.03	+ 1 0.0	1.971	2.826	13.3	11.9	8 9	23 41.35	- 8 18.9	1.784	2.670	13.0	20.9
8 19	23 36.01	+ 1 25.1	1.903	2.830	10.0	11.7	8 19	23 35.85	- 9 21.4	1.709	2.660	9.3	20.7
8 29	23 28.20	+ 1 39.2	1.858	2.835	6.4	11.5	8 29	23 28.28	-10 32.5	1.658	2.649	5.4	20.5
9 8	23 19.28	+ 1 44.0	1.839	2.840	2.9	11.3	9 8	23 19.34	-11 45.1	1.634	2.637	2.6	20.3
9 18	23 10.11	+ 1 41.8	1.849	2.846	3.1	11.3	9 18	23 10.00	-12 51.5	1.638	2.625	5.2	20.4
9 28	23 1.66	+ 1 36.4	1.886	2.852	6.6	11.6	9 28	23 1.33	-13 44.6	1.669	2.613	9.3	20.6
10 8	22 54.75	+ 1 31.6	1.950	2.858	10.1	11.8	10 8	22 54.31	-14 19.9	1.724	2.599	13.1	20.8
10 18	22 49.92	+ 1 30.9	2.037	2.864	13.2	12.0	10 18	22 49.60	-14 35.5	1.801	2.586	16.3	21.0
53463	1999 <i>XW</i> ₁₉₆		9 10.8 77°88	5°1/ 7.6 18			435179	2007 <i>RA</i> ₁₀		9 10.8 356°19	1°9/12.5 16		
8 9	23 46.62	-13 26.9	1.163	2.068	16.9	18.3	8 9	23 28.29	+ 3 52.7	1.072	1.971	18.5	19.5
8 19	23 40.04	-14 19.2	1.125	2.083	12.2	18.1	8 19	23 27.09	+ 3 4.6	1.011	1.963	14.0	19.2
8 29	23 30.69	-15 12.8	1.109	2.099	7.5	17.9	8 29	23 23.49	+ 1 47.5	0.969	1.956	8.8	18.9
9 8	23 19.81	-15 57.7	1.116	2.114	5.1	17.8	9 8	23 18.30	+ 0 7.9	0.947	1.952	3.4	18.6
9 18	23 8.90	-16 25.4	1.148	2.130	7.8	18.0	9 18	23 12.68	- 1 43.3	0.949	1.949	3.8	18.6
9 28	22 59.52	-16 30.8	1.203	2.145	12.2	18.3	9 28	23 7.98	- 3 31.8	0.972	1.949	9.4	18.9
10 8	22 52.79	-16 13.0	1.279	2.160	16.3	18.6	10 8	23 5.33	- 5 4.7	1.018	1.951	14.6	19.2
10 18	22 49.25	-15 34.7	1.374	2.175	19.7	18.9	10 18	23 5.41	- 6 13.7	1.082	1.954	19.0	19.5
91872	1999 <i>UL</i> ₄₁		9 10.8 189°23	3°2/14.8 18			356208	2009 <i>RK</i> ₂₅		9 10.8 318°19	3°0/ 4.6 17		
8 9	23 36.02	+ 8 44.8	2.505	3.324	11.9	20.1	8 9	23 30.52	-17 50.4	3.986	4.875	6.4	19.9
8 19	23 31.44	+ 8 26.6	2.423	3.323	9.3	20.0	8 19	23 27.10	-18 48.3	3.923	4.869	4.7	19.8
8 29	23 25.49	+ 7 52.7	2.365	3.322	6.5	19.8	8 29	23 22.85	-19 45.4	3.886	4.864	3.4	19.7
9 8	23 18.69	+ 7 5.1	2.332	3.321	4.0	19.6	9 8	23 18.10	-20 38.3	3.879	4.858	3.1	19.7
9 18	23 11.65	+ 6 7.1	2.329	3.320	3.3	19.6	9 18	23 13.23	-21 24.0	3.900	4.853	4.2	19.8
9 28	23 5.08	+ 5 3.6	2.353	3.319	5.5	19.7	9 28	23 8.63	-22 0.1	3.950	4.848	5.8	19.9
10 8	22 59.61	+ 3 59.9	2.406	3.317	8.3	19.9	10 8	23 4.69	-22 24.9	4.026	4.842	7.5	20.0
10 18	22 55.70	+ 3 1.1	2.484	3.315	11.0	20.1	10 18	23 1.70	-22 37.8	4.124	4.837	8.9	20.1
83074	2001 <i>QP</i> ₂₁₆		9 10.8 12°44	1°5/ 9.4 18			486990	2014 <i>NX</i> ₄₆		9 10.8 296°95	7°0/19.0 17		
8 9	23 38.34	- 6 40.6	1.751	2.639	13.0	19.7	8 9	23 35.56	+18 56.0	2.218	2.984	14.8	21.0
8 19	23 33.53	- 7 17.6	1.689	2.640	9.4	19.5	8 19	23 31.49	+19 8.4	2.116	2.964	12.7	20.8
8 29	23 26.84	- 8 2.7	1.650	2.642	5.3	19.2	8 29	23 25.72	+18 57.9	2.035	2.944	10.3	20.6
9 8	23 18.99	- 8 50.2	1.638	2.643	1.7	19.0	9 8	23 18.79	+18 23.5	1.977	2.924	8.1	20.5
9 18	23 10.91	- 9 34.0	1.652	2.645	4.2	19.2	9 18	23 11.40	+17 26.2	1.943	2.905	7.1	20.4
9 28	23 3.58	-10 8.3	1.693	2.647	8.2	19.4	9 28	23 4.42	+16 10.4	1.936	2.885	7.8	20.4
10 8	22 57.87	-10 29.0	1.758	2.650	12.0	19.7	10 8	22 58.66	+14 43.1	1.955	2.865	10.0	20.5
10 18	22 54.32	-10 34.5	1.844	2.652	15.1	19.9	10 18	22 54.77	+13 12.1	1.999	2.846	12.6	20.6
347730	2001 <i>YX</i> ₂		9 10.8 318°46	19°7/16.7 17			265407	2004 <i>TP</i> ₇₉		9 10.8 298°20	3°2/ 7.6 18		
8 9	23 38.25	-40 11.2	0.966	1.865	20.1	19.5	8 9	23 39.51	-13 12.8	2.171	3.059	10.9	20.1
8 19	23 35.63	-44 11.2	0.950	1.854	19.7	19.4	8 19	23 34.13	-13 45.0	2.103	3.054	7.9	19.9
8 29	23 28.98	-47 34.1	0.952	1.843	20.7	19.4	8 29	23 27.10	-14 18.6	2.060	3.048	4.8	19.7
9 8	23 19.56	-49 59.4	0.971	1.833	22.6	19.5	9 8	23 19.06	-14 48.4	2.044	3.042	3.2	19.6
9 18	23 9.42	-51 16.4	1.005	1.823	24.9	19.7	9 18	23 10.80	-15 10.0	2.056	3.037	5.0	19.7
9 28	23 0.99	-51 24.8	1.051	1.814	27.2	19.8	9 28	23 3.17	-15 19.4	2.096	3.031	8.2	19.9
10 8	22 56.11	-50 33.5	1.105	1.805	29.2	20.0	10 8	22 56.91	-15 14.8	2.160	3.026	11.2	20.1
10 18	22 55.52	-48 54.0	1.167	1.798	30.9	20.1	10 18	22 52.54	-14 55.8	2.247	3.021	13.8	20.3
261430	2005 <i>UD</i> ₅₁₆		9 10.8 78°60	1°5/ 9.2 18			28482	Bauerle		9 10.8 96°75	0°2/10.9 18 R		
8 9	23 37.37	- 6 55.1	2.145	3.027	11.3	21.0	8 9	23 39.09	- 1 21.4	1.993	2.860	12.6	19.4
8 19	23 32.53	- 7 35.6	2.082	3.031	8.1	20.8	8 19	23 33.77	- 2 0.5	1.938	2.877	9.2	19.3
8 29	23 26.14	- 8 22.7	2.044	3.035	4.5	20.6	8 29	23 26.85	- 2 50.7	1.908	2.894	5.3	19.0
9 8	23 18.83	- 9 11.5	2.033	3.038	1.5	20.4	9 8	23 19.00	- 3 47.3	1.904	2.911	1.3	18.8
9 18	23 11.33	- 9 56.7	2.050	3.042	3.7	20.5	9 18	23 11.02	- 4 44.8	1.929	2.927	2.9	19.0
9 28	23 4.45	-10 33.6	2.095	3.046	7.2	20.8	9 28	23 3.80	- 5 37.3	1.982	2.943	6.7	19.2
10 8	22 58.90	-10 58.7	2.165	3.049	10.4	21.0	10 8	22 58.03	- 6 20.1	2.061	2.959	10.2	19.5
10 18	22 55.14	-11 10.2	2.258	3.053	13.1	21.2	10 18	22 54.20	- 6 50.3	2.163	2.974	13.1	19.7
381389	2008 <i>GD</i> ₃₄		9 10.8 43°19	0°3/10.9 15			439539	2014 <i>DW</i> ₁		9 10.8 140°84	1°3/12.2 18		
8 9	23 39.55	- 1 18.8	1.208	2.100	17.4	20.9	8 9	23 36.56	+ 3 20.4	1.787	2.647	14.1	21.0
8 19	23 34.86	- 1 53.1	1.164	2.115	12.7	20.7	8 19	23 32.25	+ 2 25.1	1.716	2.648	10.6	20.8
8 29	23 27.73	- 2 44.3	1.140	2.130	7.4	20.5	8 29	23 26.13	+ 1 11.3	1.669	2.650	6.5	20.5
9 8	23 19.19	- 3 45.4	1.140	2.146	1.7	20.2	9 8	23 18.86	- 0 16.1	1.647	2.651	2.4	20.3
9 18	23 10.50	- 4 47.7	1.164	2.163	3.9	20.4	9 18	23 11.31	- 1 49.7	1.653	2.652	3.0	20.3
9 28	23 3.02	- 5 42.1	1.213	2.180	9.2	20.7	9 28	23 4.44	- 3 21.2	1.686	2.653	7.2	20.6
10 8	22 57.77	- 6 22.0	1.284	2.198	13.8	21.0	10 8	22 59.08	- 4 42.6	1.745	2.653	11.1	20.8
10 18	22 55.30	- 6 43.9	1.375	2.216	17.6	21.3	10 18	22 55.81	- 5 48.6	1.827	2.654	14.5	21.0
418959	2009 <i>FW</i> ₇₄		9 10.8 46°91	6°2/ 6.5 18			222773	2002 <i>CB</i> ₉₇		9 10.8 300			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
244817	2003 <i>SV</i> ₃₃₉	9 10.8 302°06		7.7/ 3.2 18			509181	2006 <i>JN</i> ₄₇	9 10.8 81°38		6.2/ 4.9 17		
8 9	23 39.46	-21 48.7	1.656	2.558	12.9	19.9	8 9	23 41.03	-19 5.5	1.736	2.634	12.6	21.0
8 19	23 34.67	-23 16.0	1.597	2.545	10.1	19.7	8 19	23 35.45	-20 19.5	1.696	2.646	9.5	20.9
8 29	23 27.67	-24 39.1	1.561	2.532	8.0	19.5	8 29	23 27.91	-21 29.6	1.680	2.657	6.9	20.8
9 8	23 19.23	-25 48.1	1.550	2.519	8.0	19.5	9 8	23 19.27	-22 27.3	1.689	2.669	6.3	20.8
9 18	23 10.42	-26 34.5	1.564	2.507	10.1	19.6	9 18	23 10.53	-23 6.2	1.725	2.681	8.3	20.9
9 28	23 2.44	-26 53.4	1.602	2.495	13.1	19.8	9 28	23 2.75	-23 22.2	1.786	2.692	11.2	21.1
10 8	22 56.29	-26 43.7	1.660	2.483	16.1	19.9	10 8	22 56.78	-23 15.0	1.869	2.704	14.0	21.3
10 18	22 52.65	-26 7.9	1.736	2.471	18.7	20.1	10 18	22 53.12	-22 46.6	1.971	2.716	16.5	21.5
102971	1999 <i>XP</i> ₇₂	9 10.8 316°98		9.8/ 1.0 18			76746	2000 <i>JJ</i> ₇₀	9 10.8 134°26		2°0/12.8 18		
8 9	23 40.12	-26 58.2	1.587	2.485	13.6	18.6	8 9	23 41.54	+ 2 41.5	2.254	3.096	12.3	20.0
8 19	23 35.27	-28 35.3	1.537	2.475	11.2	18.4	8 19	23 35.47	+ 2 41.5	2.186	3.106	9.3	19.8
8 29	23 28.04	-30 2.3	1.510	2.464	9.8	18.3	8 29	23 27.84	+ 2 29.6	2.142	3.116	5.9	19.6
9 8	23 19.32	-31 8.4	1.507	2.455	10.2	18.3	9 8	23 19.26	+ 2 8.0	2.126	3.126	2.7	19.4
9 18	23 10.26	-31 45.5	1.527	2.445	12.2	18.4	9 18	23 10.50	+ 1 40.0	2.138	3.135	2.8	19.4
9 28	23 2.16	-31 49.5	1.569	2.436	14.8	18.5	9 28	23 2.38	+ 1 9.8	2.179	3.144	6.0	19.6
10 8	22 56.09	-31 21.4	1.631	2.427	17.5	18.7	10 8	22 55.61	+ 0 41.7	2.248	3.152	9.2	19.9
10 18	22 52.69	-30 25.3	1.708	2.418	19.8	18.9	10 18	22 50.69	+ 0 19.4	2.341	3.160	12.0	20.1
380008	2013 <i>NT</i> ₆	9 10.8 6°97		12°3/ 9.0 17			436250	2010 <i>BR</i> ₇₅	9 10.8 88°12		3°9/14.8 16		
8 9	23 44.75	-28 53.1	0.611	1.548	22.9	17.5	8 9	23 39.49	+ 8 44.1	1.899	2.728	14.7	21.2
8 19	23 40.13	-28 4.7	0.584	1.548	18.6	17.2	8 19	23 34.21	+ 8 36.7	1.839	2.745	11.5	21.0
8 29	23 31.17	-26 44.2	0.570	1.552	14.4	17.0	8 29	23 27.18	+ 8 10.1	1.801	2.761	8.1	20.8
9 8	23 19.96	-24 43.8	0.573	1.560	12.3	17.0	9 8	23 19.13	+ 7 26.5	1.787	2.777	4.9	20.7
9 18	23 9.04	-22 5.2	0.593	1.571	13.7	17.1	9 18	23 10.90	+ 6 30.4	1.801	2.793	4.1	20.7
9 28	23 0.75	-18 59.0	0.632	1.586	17.5	17.4	9 28	23 3.43	+ 5 27.9	1.842	2.809	6.7	20.9
10 8	22 56.41	-15 40.1	0.687	1.605	21.7	17.8	10 8	22 57.51	+ 4 26.0	1.910	2.824	10.0	21.1
10 18	22 56.30	-12 20.6	0.758	1.627	25.4	18.1	10 18	22 53.64	+ 3 30.5	2.001	2.839	13.0	21.3
479118	2013 <i>BK</i> ₁₉	9 10.8 223°41		3°0/14.2 18			474617	2004 <i>TY</i> ₅₇	9 10.8 349°69		6°0/ 7.6 18		
8 9	23 38.38	+ 7 6.7	2.337	3.164	12.4	22.2	8 9	23 47.93	-18 40.0	1.310	2.210	15.7	20.1
8 19	23 33.30	+ 6 55.4	2.249	3.156	9.7	22.0	8 19	23 41.12	-18 46.6	1.252	2.205	11.8	19.8
8 29	23 26.66	+ 6 28.5	2.184	3.147	6.6	21.8	8 29	23 31.48	-18 47.0	1.216	2.200	7.9	19.6
9 8	23 19.01	+ 5 48.0	2.145	3.138	3.8	21.6	9 8	23 20.11	-18 33.8	1.203	2.196	6.0	19.5
9 18	23 11.02	+ 4 57.0	2.135	3.128	3.3	21.6	9 18	23 8.47	-18 1.6	1.216	2.193	8.2	19.6
9 28	23 3.51	+ 4 0.6	2.153	3.118	6.0	21.7	9 28	22 58.14	-17 8.4	1.253	2.191	12.2	19.8
10 8	22 57.19	+ 3 4.2	2.199	3.108	9.1	21.9	10 8	22 50.34	-15 55.9	1.312	2.189	16.2	20.1
10 18	22 52.60	+ 2 13.0	2.269	3.097	12.0	22.1	10 18	22 45.73	-14 28.1	1.390	2.189	19.7	20.3
228486	2001 <i>SH</i> ₁₆₆	9 10.8 318°59		0°5/11.1 18			260389	2004 <i>VP</i> ₇₀	9 10.8 321°08		2°6/ 8.1 18		
8 9	23 37.92	- 1 33.7	1.320	2.211	16.3	20.7	8 9	23 36.68	- 9 57.2	1.927	2.820	11.8	20.3
8 19	23 33.96	- 1 54.4	1.243	2.193	12.1	20.4	8 19	23 32.34	-10 42.2	1.853	2.806	8.5	20.1
8 29	23 27.48	- 2 32.0	1.187	2.176	7.2	20.1	8 29	23 26.22	-11 32.7	1.803	2.794	5.0	19.8
9 8	23 19.24	- 3 21.6	1.153	2.160	1.8	19.7	9 8	23 18.95	-12 22.9	1.779	2.781	2.6	19.7
9 18	23 10.38	- 4 16.0	1.144	2.143	3.9	19.8	9 18	23 11.35	-13 6.9	1.782	2.769	4.9	19.8
9 28	23 2.28	- 5 6.6	1.160	2.128	9.4	20.1	9 28	23 4.35	-13 39.0	1.812	2.757	8.6	20.0
10 8	22 56.19	- 5 45.6	1.198	2.113	14.4	20.3	10 8	22 58.77	-13 55.8	1.866	2.746	12.0	20.2
10 18	22 52.92	- 6 7.9	1.255	2.099	18.7	20.6	10 18	22 55.20	-13 55.9	1.942	2.735	15.0	20.4
251516	2008 <i>FJ</i> ₈₁	9 10.8 284°88		3°8/ 7.3 18			315097	2007 <i>DW</i> ₁₁₆	9 10.8 116°71		5°6/ 4.1 18		
8 9	23 41.41	-14 52.9	2.048	2.937	11.4	20.4	8 9	23 41.19	-23 53.0	2.593	3.473	9.6	20.8
8 19	23 35.58	-15 24.4	1.983	2.933	8.3	20.2	8 19	23 35.03	-24 43.5	2.554	3.487	7.5	20.7
8 29	23 27.97	-15 55.9	1.943	2.929	5.3	20.0	8 29	23 27.49	-25 27.4	2.540	3.501	5.9	20.6
9 8	23 19.29	-16 21.8	1.930	2.925	3.8	19.9	9 8	23 19.19	-25 59.6	2.554	3.515	5.8	20.6
9 18	23 10.38	-16 37.3	1.944	2.921	5.7	20.0	9 18	23 10.85	-26 16.5	2.595	3.529	7.1	20.7
9 28	23 2.19	-16 38.8	1.986	2.917	8.8	20.2	9 28	23 3.22	-26 15.8	2.663	3.542	9.0	20.9
10 8	22 55.52	-16 24.9	2.052	2.913	11.9	20.4	10 8	22 56.91	-25 57.9	2.756	3.554	11.0	21.0
10 18	22 50.90	-15 55.9	2.140	2.909	14.6	20.6	10 18	22 52.34	-25 24.3	2.869	3.567	12.8	21.2
301356	2009 <i>CM</i> ₃₁	9 10.8 284°87		1°7/ 9.1 18			254585	2005 <i>GX</i> ₄₆	9 10.8 221°54		0°3/11.1 18		
8 9	23 38.36	- 6 50.4	1.836	2.723	12.6	21.6	8 9	23 41.59	- 1 11.2	1.595	2.469	14.9	21.3
8 19	23 33.56	- 7 35.9	1.767	2.718	9.1	21.4	8 19	23 36.20	- 1 43.9	1.522	2.464	11.0	21.1
8 29	23 26.90	- 8 29.9	1.722	2.713	5.2	21.2	8 29	23 28.57	- 2 31.5	1.471	2.458	6.5	20.8
9 8	23 19.07	- 9 26.3	1.702	2.708	1.8	20.9	9 8	23 19.50	- 3 29.1	1.446	2.452	1.6	20.5
9 18	23 10.93	-10 18.9	1.710	2.702	4.3	21.1	9 18	23 9.99	- 4 29.8	1.447	2.446	3.5	20.6
9 28	23 3.46	-11 1.6	1.745	2.697	8.3	21.3	9 28	23 1.27	- 5 26.0	1.475	2.439	8.3	20.9
10 8	22 57.53	-11 30.1	1.805	2.692	12.0	21.6	10 8	22 54.35	- 6 11.2	1.528	2.432	12.7	21.1
10 18	22 53.72	-11 42.2	1.886	2.688	15.1	21.8	10 18	22 49.93	- 6 41.2	1.602	2.424	16.4	21.3
309083	2006 <i>VR</i> ₆₅	9 10.8 90°71		1°7/ 9.1 18			418030	2007 <i>UK</i> ₁₁₅	9 10.8 18°97		8°0/ 6.7 18		
8 9	23 38.53	- 7 23.1	2.034	2.917	11.7	20.8	8 9	23 42.88	-18 39.7	0.890	1.815	18.7	19.2
8 19	23 33.42	- 8 4.6	1.976	2.925	8.4	20.6	8 19	23 37.97	-19 21.0	0.857	1.822	14.0	19.0
8 29	23 26.69	- 8 52.5	1.943	2.933	4.7	20.4	8 29	23 29.78	-19 55.7	0.842	1.830	9.7	18.8
9 8	23 19.00	- 9 41.4	1.936	2.941	1.7	20.2	9 8	23 19.74	-20 12.0	0.848	1.840	8.1	18.7
9 18	23 11.15	-10 26.0	1.957	2.949	3.9	20.4	9 18	23 9.65	-20 2.0	0.875	1.851	10.6	18.9
9 28	23 3.99	-11 1.3	2.006	2.956	7.5	20.6	9 28	23 1.35	-19 22.7	0.922	1.864	14.9	19.2
10 8	22 58.25	-11 23.8	2.081	2.964	10.8	20.8	10 8	22 56.10	-18 17.1	0.987	1.878	19.1	19.5
10 18	22 54.43	-11 32.2	2.177	2.972	13.6	21.0	10 18	22 54.38	-16 50.6	1.069	1.893	22.7	19.8
191418	2003 <i>SW</i> ₁₃₈	9 10.8 306°44		2°1/12.9 18			253599	2003 <i>UZ</i> ₈	9 10.8 274°22		15°2/22.2 18</		

EPHEMERIDES

9 10.8

9 10.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
293553	2007 <i>HJ</i> ₃₆		9 10.8 12°61'	4.8/ 8.4	17		97249	1999 <i>XT</i> ₁₀₆		9 10.8 179°32'	4.9/16.5	18	
8 9	23 37.61	-12 0.6	0.725	1.663	20.2	19.3	8 9	23 38.50	+13 4.5	2.172	2.971	14.1	19.7
8 19	23 34.52	-12 21.0	0.693	1.667	14.6	19.0	8 19	23 33.49	+12 56.5	2.091	2.973	11.5	19.5
8 29	23 27.97	-12 45.6	0.676	1.673	8.7	18.8	8 29	23 26.82	+12 28.0	2.032	2.973	8.5	19.3
9 8	23 19.36	-13 3.7	0.678	1.681	4.8	18.6	9 8	23 19.11	+11 40.1	1.998	2.974	5.9	19.1
9 18	23 10.58	-13 6.1	0.699	1.692	8.1	18.8	9 18	23 11.10	+10 35.9	1.991	2.974	4.9	19.1
9 28	23 3.57	-12 46.6	0.739	1.705	13.7	19.2	9 28	23 3.66	+ 9 21.1	2.012	2.973	6.6	19.2
10 8	22 59.67	-12 4.4	0.797	1.719	18.8	19.5	10 8	22 57.54	+ 8 2.8	2.060	2.972	9.4	19.4
10 18	22 59.41	-11 2.1	0.870	1.736	23.1	19.9	10 18	22 53.30	+ 6 47.7	2.132	2.971	12.3	19.5
2663	Miltiades		9 10.8 248°24'	3.1/ 8.5	18 R		389682	2011 <i>QN</i> ₁₇		9 10.8 65°00'	0.4/11.1	18	
8 9	23 44.31	- 9 58.6	1.529	2.420	14.4	17.4	8 9	23 42.31	- 2 46.5	1.724	2.597	14.0	20.6
8 19	23 38.34	-10 40.2	1.456	2.408	10.5	17.1	8 19	23 36.37	- 2 50.6	1.668	2.609	10.2	20.3
8 29	23 29.90	-11 28.4	1.405	2.396	6.2	16.8	8 29	23 28.49	- 3 5.1	1.635	2.621	6.0	20.1
9 8	23 19.82	-12 16.0	1.380	2.383	3.1	16.6	9 8	23 19.47	- 3 25.9	1.627	2.633	1.5	19.9
9 18	23 9.22	-12 55.5	1.381	2.369	5.8	16.7	9 18	23 10.28	- 3 48.7	1.647	2.645	3.1	20.0
9 28	22 59.46	-13 20.2	1.409	2.356	10.3	17.0	9 28	23 1.99	- 4 8.3	1.694	2.658	7.4	20.3
10 8	22 51.69	-13 26.4	1.459	2.341	14.6	17.2	10 8	22 55.44	- 4 20.7	1.767	2.670	11.3	20.6
10 18	22 46.67	-13 13.3	1.530	2.327	18.2	17.4	10 18	22 51.18	- 4 23.3	1.861	2.682	14.5	20.8
481936	2009 <i>BM</i> ₁₅₃		9 10.8 285°38'	1.6/12.2	18		313980	2004 <i>TW</i> ₇₉		9 10.8 218°17'	1.0/ 9.8	18	
8 9	23 40.29	+ 0 54.9	1.792	2.655	14.0	21.9	8 9	23 39.65	- 6 53.0	2.418	3.291	10.5	21.0
8 19	23 35.18	+ 0 51.0	1.704	2.637	10.6	21.6	8 19	23 34.11	- 7 10.9	2.344	3.287	7.6	20.8
8 29	23 27.99	+ 0 33.2	1.638	2.619	6.6	21.4	8 29	23 27.09	- 7 34.1	2.295	3.284	4.3	20.6
9 8	23 19.39	+ 0 4.1	1.598	2.601	2.5	21.1	9 8	23 19.16	- 7 58.9	2.274	3.280	1.2	20.3
9 18	23 10.26	+ 0 31.9	1.584	2.583	3.2	21.1	9 18	23 11.01	- 8 21.7	2.282	3.276	3.1	20.5
9 28	23 1.70	- 1 9.3	1.598	2.565	7.5	21.3	9 28	23 3.40	- 8 38.7	2.319	3.272	6.5	20.7
10 8	22 54.69	- 1 42.2	1.637	2.547	11.6	21.5	10 8	22 57.00	- 8 47.3	2.383	3.268	9.5	20.9
10 18	22 49.94	- 2 6.0	1.699	2.529	15.3	21.7	10 18	22 52.30	- 8 45.7	2.470	3.263	12.2	21.1
340249	2006 <i>BG</i> ₁₂₃		9 10.8 129°61'	0.8/11.5	18		287863	2003 <i>SM</i> ₂₇₅		9 10.8 353°89'	5.9/ 6.9	18	
8 9	23 40.87	- 0 44.6	1.790	2.658	13.8	21.2	8 9	23 46.07	-18 53.4	1.533	2.429	14.1	19.6
8 19	23 35.36	- 1 3.0	1.725	2.662	10.2	21.0	8 19	23 39.43	-19 16.8	1.477	2.427	10.6	19.3
8 29	23 27.94	- 1 34.0	1.682	2.666	6.1	20.7	8 29	23 30.39	-19 35.3	1.443	2.425	7.3	19.2
9 8	23 19.34	- 2 13.6	1.665	2.671	1.8	20.5	9 8	23 19.91	-19 41.6	1.434	2.423	5.9	19.1
9 18	23 10.49	- 2 56.6	1.676	2.675	3.0	20.6	9 18	23 9.22	-19 30.1	1.452	2.422	7.9	19.2
9 28	23 2.40	- 3 37.2	1.714	2.678	7.3	20.8	9 28	22 59.65	-18 58.4	1.494	2.422	11.4	19.4
10 8	22 55.94	- 4 10.1	1.778	2.682	11.2	21.1	10 8	22 52.25	-18 6.9	1.559	2.422	14.9	19.6
10 18	22 51.69	- 4 31.7	1.864	2.686	14.5	21.3	10 18	22 47.61	-16 58.7	1.644	2.422	17.9	19.8
407107	2009 <i>SR</i> ₂₈₉		9 10.8 202°82'	1.1/12.3	18		195231	2002 <i>EU</i> ₄		9 10.8 299°08'	0.7/10.4	18	
8 9	23 34.91	+ 2 15.3	2.626	3.474	10.5	21.6	8 9	23 50.48	- 8 3.3	1.613	2.488	14.7	20.3
8 19	23 30.61	+ 1 35.2	2.546	3.472	7.9	21.4	8 19	23 42.69	- 7 32.8	1.537	2.480	10.8	20.1
8 29	23 25.04	+ 0 43.3	2.491	3.470	4.9	21.0	8 29	23 32.36	- 7 5.5	1.484	2.472	6.3	19.8
9 8	23 18.69	+ 0 17.1	2.464	3.468	1.8	21.0	9 8	23 20.38	- 6 38.4	1.457	2.463	1.4	19.5
9 18	23 12.12	- 1 22.0	2.466	3.465	2.2	21.0	9 18	23 7.95	- 6 8.8	1.459	2.455	3.9	19.6
9 28	23 5.99	- 2 26.2	2.498	3.462	5.3	21.2	9 28	22 56.45	- 5 34.2	1.489	2.447	8.8	19.9
10 8	23 0.88	- 3 25.1	2.557	3.459	8.3	21.4	10 8	22 47.05	- 4 53.1	1.544	2.440	13.1	20.1
10 18	22 57.21	- 4 15.1	2.641	3.456	10.9	21.6	10 18	22 40.48	- 4 5.0	1.622	2.432	16.8	20.4
482456	2012 <i>FL</i> ₃		9 10.8 246°58'	2.3/13.4	17		386754	2010 <i>CB</i> ₄₀		9 10.8 250°36'	1.5/11.9	18	
8 9	23 38.25	+ 4 22.1	2.470	3.307	11.5	22.1	8 9	23 43.03	- 0 12.9	1.806	2.668	14.0	21.7
8 19	23 33.15	+ 4 19.7	2.381	3.296	8.8	21.9	8 19	23 37.07	- 0 7.2	1.727	2.661	10.5	21.5
8 29	23 26.58	+ 4 4.9	2.316	3.286	5.9	21.7	8 29	23 29.03	- 0 13.4	1.671	2.653	6.5	21.2
9 8	23 19.05	+ 3 39.5	2.278	3.275	3.0	21.5	9 8	23 19.63	- 0 28.9	1.641	2.645	2.3	21.0
9 18	23 11.20	+ 3 6.4	2.269	3.264	2.9	21.4	9 18	23 9.82	- 0 50.0	1.639	2.637	3.1	21.0
9 28	23 3.79	+ 2 29.5	2.288	3.253	5.7	21.6	9 28	23 0.68	- 1 11.7	1.664	2.629	7.4	21.2
10 8	22 57.51	+ 1 53.2	2.335	3.242	8.7	21.8	10 8	22 53.20	- 1 29.3	1.715	2.621	11.4	21.5
10 18	22 52.85	+ 1 21.7	2.406	3.230	11.5	22.0	10 18	22 48.02	- 1 39.0	1.788	2.613	14.9	21.7
218507	2004 <i>TO</i> ₁₀₄		9 10.8 320°35'	7.8/ 3.6	18		68093	2000 <i>YC</i> ₁₁₀		9 10.8 314°03'	5.1/ 6.9	18	
8 9	23 42.70	-25 57.9	1.917	2.805	12.1	19.5	8 9	23 39.56	-12 26.2	1.201	2.114	15.9	18.6
8 19	23 36.77	-26 45.9	1.857	2.792	9.8	19.3	8 19	23 35.39	-13 32.1	1.135	2.098	11.7	18.3
8 29	23 28.78	-27 24.8	1.820	2.779	8.1	19.2	8 29	23 28.42	-14 45.0	1.090	2.082	7.3	18.0
9 8	23 19.54	-27 47.3	1.808	2.767	7.9	19.2	9 8	23 19.53	-15 54.2	1.068	2.066	5.2	17.8
9 18	23 10.04	-27 47.9	1.822	2.755	9.5	19.2	9 18	23 10.04	-16 48.8	1.069	2.052	8.2	18.0
9 28	23 1.39	-27 24.0	1.860	2.744	12.0	19.4	9 28	23 1.51	-17 19.9	1.093	2.037	12.9	18.2
10 8	22 54.51	-26 36.4	1.921	2.732	14.6	19.5	10 8	22 55.28	-17 23.5	1.138	2.024	17.5	18.4
10 18	22 49.99	-25 28.3	2.000	2.722	16.9	19.7	10 18	22 52.17	-17 0.0	1.199	2.011	21.5	18.7
191054	2002 <i>CZ</i> ₈₀		9 10.8 291°23'	0.8/ 9.3	17		450427	2005 <i>UE</i> ₉₅		9 10.8 304°30'	2.3/13.2	18	
8 9	23 30.89	- 7 15.1	4.255	5.126	6.4	19.8	8 9	23 37.17	+ 3 55.6	2.018	2.869	13.2	21.3
8 19	23 27.30	- 7 42.9	4.180	5.124	4.5	19.6	8 19	23 32.64	+ 3 46.1	1.936	2.860	10.1	21.1
8 29	23 22.98	- 8 13.9	4.132	5.121	2.5	19.5	8 29	23 26.40	+ 3 21.6	1.876	2.850	6.6	20.8
9 8	23 18.22	- 8 45.6	4.114	5.119	0.8	19.4	9 8	23 19.04	+ 2 44.5	1.842	2.841	3.2	20.6
9 18	23 13.35	- 9 16.0	4.125	5.117	2.0	19.5	9 18	23 11.33	+ 1 58.7	1.835	2.832	3.1	20.6
9 28	23 8.74	- 9 42.6	4.166	5.114	4.0	19.6	9 28	23 4.15	+ 1 9.6	1.855	2.823	6.5	20.8
10 8	23 4.72	-10 3.8	4.235	5.112	5.9	19.7	10 8	22 58.31	+ 0 23.1	1.902	2.814	10.1	21.0
10 18	23 1.56	-10 18.1	4.329	5.110	7.5	19.9	10 18	22 54.40	- 0 16.0	1.972	2.806	13.3	21.2
319123	2005 <i>XR</i>												

EPHEMERIDES

9 10.8

9 10.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
20060	Johannforster 9 10.8 350°05 3°2/13.6 18						320211	2007 HY ₃₁ 9 10.8 198°29 2°6/ 7.6 18					
8 9	23 39.13	+ 4 29.6	1.882	2.731	14.0	17.4	8 9	23 39.01	-12 51.3	2.759	3.639	9.1	21.4
8 19	23 34.14	+ 4 48.0	1.806	2.727	10.9	17.1	8 19	23 33.52	-13 27.0	2.690	3.636	6.6	21.3
8 29	23 27.29	+ 4 51.7	1.753	2.724	7.3	16.9	8 29	23 26.72	-14 4.0	2.646	3.633	4.0	21.1
9 8	23 19.25	+ 4 42.0	1.725	2.721	4.0	16.7	9 8	23 19.14	-14 38.3	2.632	3.629	2.6	21.0
9 18	23 10.86	+ 4 21.8	1.724	2.719	3.7	16.7	9 18	23 11.37	-15 5.9	2.646	3.625	4.2	21.1
9 28	23 3.11	+ 3 55.7	1.750	2.717	6.9	16.9	9 28	23 4.09	-15 23.7	2.690	3.621	6.8	21.3
10 8	22 56.85	+ 3 29.0	1.801	2.716	10.4	17.1	10 8	22 57.89	-15 29.7	2.760	3.616	9.3	21.4
10 18	22 52.69	+ 3 6.4	1.876	2.715	13.7	17.3	10 18	22 53.21	-15 23.5	2.853	3.611	11.6	21.6
101108	1998 RS ₄₅ 9 10.8 60°99 1°6/12.1 17						355091	2006 SD ₄₀₉ 9 10.8 317°97 0°4/10.4 18					
8 9	23 40.67	+ 2 15.9	1.295	2.172	17.5	19.4	8 9	23 37.06	- 3 7.8	1.837	2.717	12.9	21.3
8 19	23 35.56	+ 1 39.9	1.253	2.193	13.0	19.2	8 19	23 32.67	- 3 47.2	1.765	2.711	9.4	21.0
8 29	23 28.14	+ 0 43.8	1.230	2.214	7.9	18.9	8 29	23 26.47	- 4 38.2	1.716	2.705	5.4	20.8
9 8	23 19.41	- 0 25.9	1.231	2.235	2.8	18.7	9 8	23 19.11	- 5 35.8	1.692	2.699	1.2	20.5
9 18	23 10.60	- 1 40.8	1.258	2.257	3.6	18.8	9 18	23 11.43	- 6 33.9	1.696	2.693	3.4	20.6
9 28	23 2.96	- 2 51.4	1.309	2.279	8.4	19.2	9 28	23 4.38	- 7 25.9	1.727	2.688	7.6	20.9
10 8	22 57.45	- 3 49.7	1.385	2.300	12.9	19.5	10 8	22 58.80	- 8 6.6	1.783	2.682	11.4	21.1
10 18	22 54.62	- 4 31.3	1.481	2.322	16.6	19.8	10 18	22 55.29	- 8 32.6	1.861	2.677	14.7	21.3
41854	2000 WF ₈₈ 9 10.8 330°16 6°7/ 6.0 18						235298	2003 UQ ₈₀ 9 10.8 107°8 3°3/ 8.3 18					
8 9	23 40.16	-15 54.8	1.146	2.063	16.2	17.5	8 9	23 38.98	-10 20.0	1.315	2.222	15.2	20.0
8 19	23 35.87	-17 3.5	1.089	2.051	12.0	17.3	8 19	23 34.51	-10 59.3	1.264	2.224	11.0	19.7
8 29	23 28.68	-18 13.8	1.053	2.041	8.2	17.0	8 29	23 27.67	-11 44.5	1.234	2.227	6.4	19.5
9 8	23 19.60	-19 14.0	1.038	2.031	6.8	16.9	9 8	23 19.38	-12 27.4	1.228	2.231	3.4	19.3
9 18	23 10.02	-19 53.3	1.047	2.021	9.6	17.1	9 18	23 10.85	-13 0.6	1.247	2.236	6.1	19.5
9 28	23 1.58	-20 4.4	1.077	2.013	14.0	17.3	9 28	23 3.38	-13 17.7	1.290	2.242	10.5	19.8
10 8	22 55.58	-19 45.6	1.127	2.005	18.2	17.5	10 8	22 58.00	-13 15.7	1.354	2.249	14.7	20.0
10 18	22 52.80	-18 59.3	1.194	1.999	21.9	17.7	10 18	22 55.31	-12 54.5	1.438	2.256	18.2	20.3
142676	2002 TU ₂₂₃ 9 10.8 353°60 1°3/11.7 18						433980	1999 VN ₈₈ 9 10.8 1°69 5°1/ 7.5 18 R					
8 9	23 33.16	- 0 28.9	0.936	1.848	19.3	18.8	8 9	23 36.71	-13 20.5	1.073	1.996	16.5	19.4
8 19	23 31.01	- 0 34.4	0.879	1.839	14.5	18.5	8 19	23 33.28	-14 0.5	1.026	1.993	12.0	19.2
8 29	23 25.98	- 1 1.5	0.839	1.831	8.8	18.1	8 29	23 27.12	-14 43.1	0.998	1.991	7.5	18.9
9 8	23 19.02	- 1 45.0	0.819	1.825	2.8	17.8	9 8	23 19.28	-15 18.8	0.992	1.992	5.1	18.8
9 18	23 11.50	- 2 36.6	0.821	1.821	4.3	17.9	9 18	23 11.13	-15 38.8	1.008	1.994	7.9	19.0
9 28	23 5.09	- 3 25.3	0.843	1.819	10.4	18.2	9 28	23 4.20	-15 37.0	1.046	1.998	12.4	19.2
10 8	23 1.15	- 4 1.6	0.885	1.820	16.0	18.5	10 8	22 59.65	-15 11.8	1.104	2.004	16.8	19.5
10 18	23 0.45	- 4 19.4	0.944	1.822	20.7	18.8	10 18	22 58.11	-14 24.6	1.179	2.011	20.5	19.8
404020	2012 CM ₁₆ 9 10.8 247°41 1°1/11.9 17						103667	2000 CB ₅₀ 9 10.9 158°61 4°8/15.4 18					
8 9	23 38.90	+ 0 10.1	2.430	3.283	11.1	21.9	8 9	23 41.63	+10 3.8	2.075	2.888	14.2	19.7
8 19	23 33.66	+ 0 0.5	2.342	3.271	8.3	21.7	8 19	23 35.84	+10 28.0	1.999	2.891	11.4	19.5
8 29	23 26.90	- 0 19.2	2.280	3.260	5.1	21.5	8 29	23 28.26	+10 34.7	1.944	2.893	8.3	19.3
9 8	23 19.17	- 0 46.4	2.244	3.248	1.8	21.2	9 8	23 19.53	+10 24.4	1.915	2.895	5.6	19.2
9 18	23 11.12	- 1 17.8	2.238	3.236	2.4	21.3	9 18	23 10.47	+ 9 59.0	1.913	2.897	4.9	19.1
9 28	23 3.53	- 1 49.3	2.260	3.224	5.8	21.5	9 28	23 2.03	+ 9 22.9	1.939	2.899	6.9	19.3
10 8	22 57.09	- 2 17.0	2.310	3.211	9.1	21.7	10 8	22 55.03	+ 8 41.9	1.991	2.901	9.9	19.4
10 18	22 52.31	- 2 37.5	2.384	3.198	11.9	21.8	10 18	22 50.06	+ 8 1.7	2.067	2.902	12.7	19.6
324765	2007 GK ₃₃ 9 10.8 206°22 0°6/11.6 18						469540	2003 SK ₃₂₃ 9 10.9 337°37 1°4/12.0 18 R					
8 9	23 36.16	- 0 3.7	2.517	3.374	10.7	21.7	8 9	23 37.53	+ 0 43.5	1.458	2.337	15.7	20.9
8 19	23 31.57	- 0 35.5	2.440	3.372	7.9	21.5	8 19	23 33.44	+ 0 28.5	1.386	2.328	11.8	20.7
8 29	23 25.64	- 1 17.6	2.387	3.370	4.7	21.3	8 29	23 27.11	- 0 3.5	1.336	2.321	7.3	20.4
9 8	23 18.87	- 2 6.8	2.362	3.367	1.4	21.1	9 8	23 19.30	- 0 48.6	1.309	2.313	2.5	20.1
9 18	23 11.89	- 2 58.9	2.366	3.364	2.3	21.2	9 18	23 11.04	- 1 40.6	1.307	2.306	3.4	20.1
9 28	23 5.36	- 3 49.3	2.398	3.361	5.6	21.4	9 28	23 3.55	- 2 32.0	1.331	2.300	8.3	20.4
10 8	22 59.92	- 4 33.7	2.458	3.358	8.7	21.6	10 8	22 57.89	- 3 15.3	1.378	2.295	12.8	20.7
10 18	22 56.01	- 5 8.8	2.543	3.354	11.4	21.8	10 18	22 54.76	- 3 45.5	1.446	2.290	16.7	20.9
479990	2014 KT ₁₈ 9 10.8 205°83 1°2/12.1 18						29002	2708 P-L 9 10.9 148°78 1°2/ 9.9 18					
8 9	23 37.78	+ 1 45.4	2.165	3.020	12.2	21.9	8 9	23 42.72	- 5 39.9	1.674	2.555	13.9	19.5
8 19	23 32.95	+ 1 11.8	2.088	3.017	9.2	21.7	8 19	23 36.85	- 6 11.3	1.612	2.560	10.1	19.2
8 29	23 26.53	+ 0 24.8	2.034	3.014	5.6	21.5	8 29	23 28.90	- 6 51.9	1.574	2.564	5.7	19.0
9 8	23 19.09	- 0 32.2	2.007	3.010	2.0	21.2	9 8	23 19.67	- 7 35.9	1.561	2.567	1.5	18.7
9 18	23 11.38	- 1 34.3	2.008	3.007	2.6	21.3	9 18	23 10.19	- 8 17.3	1.576	2.571	4.0	18.9
9 28	23 4.21	- 2 35.6	2.038	3.003	6.3	21.5	9 28	23 1.57	- 8 50.0	1.618	2.574	8.4	19.2
10 8	22 58.32	- 3 30.5	2.094	2.998	9.8	21.7	10 8	22 54.75	- 9 9.8	1.684	2.577	12.4	19.4
10 18	22 54.24	- 4 15.0	2.175	2.993	12.8	21.9	10 18	22 50.32	- 9 14.9	1.772	2.579	15.7	19.7
207845	2007 UZ ₁₀₁ 9 10.8 154°94 1°1/11.9 18						45247	1999 XY ₂₄₅ 9 10.9 7°90 0°7/10.2 18					
8 9	23 38.22	+ 0 58.1	1.968	2.830	13.0	21.0	8 9	23 34.31	- 1 2.0	1.117	2.020	17.6	18.3
8 19	23 33.36	+ 0 29.6	1.897	2.831	9.7	20.8	8 19	23 31.45	- 2 18.1	1.063	2.021	12.8	18.0
8 29	23 26.79	- 0 12.4	1.850	2.832	5.9	20.6	8 29	23 26.06	- 3 56.4	1.029	2.022	7.3	17.7
9 8	23 19.15	- 1 4.1	1.829	2.834	2.0	20.3	9 8	23 19.07	- 5 47.1	1.018	2.024	1.5	17.4
9 18	23 11.25	- 2 0.4	1.836	2.835	2.8	20.4	9 18	23 11.71	- 7 37.3	1.030	2.028	4.7	17.6
9 28	23 3.99	- 2 55.3	1.870	2.836	6.7	20.6	9 28	23 5.39	- 9 14.0	1.066	2.032	10.4	17.9
10 8	22 58.15	- 3 43.1	1.931	2.837	10.3	20.9	10 8	23 1.24	-10 27.4	1.123	2.037	15.3	18.2
10 18	22 54.27	- 4 19.8	2.015	2.837	13.5	21.1	10 18	22 59.91	-11 13.3	1.199	2.043	19.5	18.5
177746	2005 JU ₅₄ 9 10.8 158°55 5°0/ 6.9 18						268964	2007 EB ₁₆ 9 10.9 198°14 0°2/10.7 16					
8 9	23 43.96	-14 39.0	1.545	2.442	14.0	20.1	8 9	23 39.22	- 1 31.4	1.721	2.596	13.9	21.4
8 19	23 37.89	-15 37.3	1.491	2.445	10.2	19.9	8 19	23 34.33	- 2 22.2	1.652	2.595	10.2	21.2
8 29	23 29.53	-16 36.6	1.461	2.447	6.6	19.7							

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
431701	2008 <i>EF</i> ₃₁		9 10.9 316°93	3°7/13.4	18		479703	2014 <i>DV</i> ₁₁₆		9 10.9	8°72	0°6/11.4	18
8 9	23 39.40	+ 4 18.1	1.255	2.128	18.1	21.0	8 9	23 38.38	- 0 59.8	1.533	2.413	15.0	21.1
8 19	23 35.25	+ 4 29.2	1.178	2.113	14.1	20.7	8 19	23 33.89	- 1 22.4	1.470	2.414	11.1	20.8
8 29	23 28.39	+ 4 18.5	1.121	2.099	9.4	20.4	8 29	23 27.29	- 1 59.5	1.428	2.415	6.6	20.6
9 8	23 19.64	+ 3 47.7	1.086	2.085	4.8	20.1	9 8	23 19.37	- 2 46.3	1.411	2.417	1.8	20.3
9 18	23 10.19	+ 3 1.5	1.074	2.072	4.6	20.0	9 18	23 11.15	- 3 36.7	1.420	2.419	3.3	20.4
9 28	23 1.54	+ 2 8.1	1.087	2.059	9.2	20.3	9 28	23 3.74	- 4 23.4	1.455	2.422	8.0	20.7
10 8	22 55.02	+ 1 16.9	1.121	2.048	14.2	20.5	10 8	22 58.13	- 5 0.2	1.514	2.425	12.3	21.0
10 18	22 51.51	+ 0 35.7	1.176	2.036	18.7	20.8	10 18	22 54.90	- 5 23.3	1.594	2.428	15.9	21.2
486198	2013 <i>AH</i> ₅₂		9 10.9 285°74	10°6/29.9	18		260155	2004 <i>RV</i> ₃₆		9 10.9	40°65	4°1/ 7.9	18
8 9	23 42.41	-32 32.5	1.844	2.723	13.0	21.0	8 9	23 45.67	-15 54.8	1.705	2.595	13.2	19.4
8 19	23 36.85	-34 7.7	1.796	2.710	11.3	20.8	8 19	23 38.74	-16 4.1	1.662	2.612	9.6	19.2
8 29	23 29.00	-35 28.9	1.771	2.698	10.6	20.8	8 29	23 29.85	-16 11.0	1.644	2.630	6.1	19.1
9 8	23 19.72	-36 26.5	1.770	2.685	11.1	20.8	9 8	23 19.90	-16 10.1	1.651	2.647	4.1	19.0
9 18	23 10.11	-36 53.8	1.792	2.672	12.7	20.9	9 18	23 9.99	-15 57.4	1.686	2.666	6.0	19.1
9 28	23 1.42	-36 48.0	1.835	2.660	14.8	21.0	9 28	23 1.19	-15 30.8	1.748	2.685	9.4	19.4
10 8	22 54.68	-36 10.9	1.898	2.647	17.0	21.1	10 8	22 54.33	-14 50.4	1.833	2.704	12.6	19.6
10 18	22 50.50	-35 6.7	1.976	2.634	18.9	21.2	10 18	22 49.90	-13 57.7	1.941	2.723	15.4	19.9
433525	2013 <i>WH</i> ₇₈		9 10.9 324°39	4°7/ 7.8	18		114621	2003 <i>ET</i> ₅		9 10.9	90°81	0°1/10.9	18
8 9	23 41.42	-12 59.7	1.219	2.129	15.9	20.2	8 9	23 41.14	- 3 17.9	2.114	2.981	12.0	19.4
8 19	23 36.76	-13 35.5	1.152	2.113	11.7	19.9	8 19	23 35.31	- 3 26.6	2.053	2.991	8.8	19.2
8 29	23 29.26	-14 15.1	1.105	2.097	7.2	19.7	8 29	23 27.87	- 3 43.5	2.016	3.002	5.1	19.0
9 8	23 19.84	-14 49.7	1.082	2.082	4.7	19.5	9 8	23 19.48	- 4 5.3	2.007	3.013	1.2	18.8
9 18	23 9.82	-15 10.6	1.081	2.067	7.5	19.6	9 18	23 10.94	- 4 28.0	2.026	3.023	2.8	18.9
9 28	23 0.80	-15 11.3	1.104	2.053	12.3	19.8	9 28	23 3.10	- 4 47.6	2.073	3.034	6.5	19.2
10 8	22 54.11	-14 49.1	1.148	2.041	16.9	20.0	10 8	22 56.68	- 5 0.5	2.147	3.044	9.9	19.4
10 18	22 50.57	-14 4.8	1.210	2.029	20.9	20.3	10 18	22 52.17	- 5 4.7	2.244	3.054	12.7	19.6
338023	2002 <i>GS</i> ₉₃		9 10.9 163°35	5°1/16.9	18		114381	2002 <i>XL</i> ₁₁₀		9 10.9	29°54	1°5/11.8	18
8 9	23 37.95	+14 12.7	2.026	2.825	15.0	21.1	8 9	23 42.03	- 0 58.2	1.129	2.021	18.4	18.5
8 19	23 33.22	+13 51.6	1.948	2.828	12.2	20.9	8 19	23 36.95	- 0 48.5	1.083	2.031	13.6	18.3
8 29	23 26.76	+13 7.1	1.891	2.831	9.1	20.8	8 29	23 29.18	- 0 55.4	1.055	2.043	8.2	18.0
9 8	23 19.22	+12 0.5	1.858	2.834	6.3	20.6	9 8	23 19.80	- 1 14.5	1.051	2.056	2.7	17.8
9 18	23 11.39	+10 36.1	1.853	2.836	5.2	20.5	9 18	23 10.21	- 1 39.8	1.069	2.069	3.9	17.9
9 28	23 4.18	+ 9 0.7	1.875	2.838	6.9	20.6	9 28	23 1.91	- 2 3.9	1.112	2.084	9.3	18.2
10 8	22 58.38	+ 7 22.8	1.924	2.840	9.8	20.8	10 8	22 56.05	- 2 20.2	1.177	2.099	14.1	18.6
10 18	22 54.54	+ 5 50.2	1.998	2.841	12.8	21.0	10 18	22 53.22	- 2 24.9	1.261	2.115	18.1	18.9
118199	1995 <i>CY</i> ₅		9 10.9 215°88	0°6/11.4	18		34512	2000 <i>SE</i> ₁₇₈		9 10.9	73°85	0°6/10.3	18
8 9	23 40.55	- 0 19.3	1.971	2.833	13.0	20.9	8 9	23 41.08	- 5 35.6	2.041	2.916	12.1	18.4
8 19	23 35.16	- 0 52.8	1.891	2.826	9.6	20.7	8 19	23 35.33	- 5 47.4	1.980	2.923	8.7	18.2
8 29	23 27.93	- 1 39.4	1.835	2.818	5.7	20.4	8 29	23 27.91	- 6 6.0	1.942	2.931	5.0	18.0
9 8	23 19.50	- 2 35.2	1.805	2.811	1.6	20.1	9 8	23 19.50	- 6 27.5	1.932	2.938	1.1	17.7
9 18	23 10.71	- 3 34.6	1.804	2.802	2.9	20.2	9 18	23 10.91	- 6 47.8	1.950	2.946	3.2	17.9
9 28	23 2.51	- 4 31.4	1.831	2.793	7.1	20.5	9 28	23 3.04	- 7 2.9	1.996	2.953	6.9	18.2
10 8	22 55.77	- 5 19.8	1.884	2.784	10.9	20.7	10 8	22 56.64	- 7 9.6	2.067	2.961	10.4	18.4
10 18	22 51.08	- 5 56.0	1.960	2.774	14.2	20.9	10 18	22 52.21	- 7 6.1	2.162	2.969	13.3	18.6
250276	2003 <i>GX</i> ₅₆		9 10.9 344°49	2°0/ 9.0	18		466506	2014 <i>DE</i> ₈₉		9 10.9	135°44	3°3/ 7.7	18
8 9	23 39.82	- 8 53.4	1.930	2.816	12.1	20.7	8 9	23 41.93	-12 55.4	2.019	2.906	11.7	20.7
8 19	23 34.57	- 9 20.5	1.864	2.814	8.7	20.5	8 19	23 35.99	-13 33.8	1.962	2.911	8.4	20.5
8 29	23 27.54	- 9 52.8	1.822	2.812	5.0	20.3	8 29	23 28.31	-14 13.7	1.929	2.916	5.1	20.3
9 8	23 19.40	-10 25.1	1.807	2.811	2.0	20.1	9 8	23 19.60	-14 49.5	1.923	2.921	3.3	20.2
9 18	23 11.01	-10 52.5	1.819	2.810	4.2	20.2	9 18	23 10.72	-15 16.0	1.946	2.926	5.3	20.3
9 28	23 3.33	-11 10.4	1.858	2.808	8.0	20.4	9 28	23 2.61	-15 29.3	1.996	2.931	8.5	20.5
10 8	22 57.15	-11 15.8	1.922	2.807	11.5	20.7	10 8	22 56.03	-15 27.5	2.070	2.935	11.6	20.7
10 18	22 53.03	-11 7.4	2.009	2.807	14.4	20.9	10 18	22 51.51	-15 10.5	2.167	2.940	14.3	20.9
387959	2005 <i>GN</i> ₉₉		9 10.9 103°01	3°1/ 7.9	18		360410	2002 <i>GY</i> ₈₀		9 10.9	158°94	3°0/ 7.1	18
8 9	23 42.08	-12 14.9	2.023	2.908	11.7	21.1	8 9	23 38.67	-13 46.0	2.664	3.547	9.3	21.4
8 19	23 36.00	-12 55.0	1.974	2.923	8.4	20.9	8 19	23 33.31	-14 32.8	2.605	3.552	6.7	21.2
8 29	23 28.24	-13 36.9	1.950	2.938	5.0	20.7	8 29	23 26.65	-15 20.4	2.572	3.557	4.2	21.1
9 8	23 19.55	-14 14.8	1.954	2.953	3.1	20.6	9 8	23 19.22	-16 4.2	2.567	3.562	3.0	21.0
9 18	23 10.77	-14 43.8	1.985	2.967	5.0	20.8	9 18	23 11.65	-16 39.9	2.592	3.566	4.6	21.1
9 28	23 2.80	-15 0.0	2.045	2.981	8.3	21.0	9 28	23 4.61	-17 4.2	2.644	3.570	7.2	21.3
10 8	22 56.39	-15 1.5	2.129	2.995	11.3	21.2	10 8	22 58.70	-17 15.3	2.723	3.573	9.7	21.5
10 18	22 52.01	-14 48.3	2.235	3.009	13.9	21.4	10 18	22 54.33	-17 12.7	2.825	3.576	11.8	21.6
483641	2004 <i>VW</i> ₃₉		9 10.9 258°86	5°0/17.6	18		502617	2015 <i>CU</i> ₂₂		9 10.9	199°69	1°5/ 9.4	18
8 9	23 35.65	+15 28.1	2.597	3.376	12.6	22.0	8 9	23 40.41	- 4 47.5	1.780	2.660	13.3	21.5
8 19	23 31.35	+15 19.0	2.498	3.361	10.5	21.8	8 19	23 35.20	- 5 54.1	1.710	2.658	9.6	21.3
8 29	23 25.64	+14 51.0	2.420	3.346	8.1	21.6	8 29	23 28.01	- 7 12.4	1.664	2.654	5.4	21.1
9 8	23 18.99	+14 4.3	2.367	3.331	5.9	21.5	9 8	23 19.56	- 8 35.6	1.645	2.651	1.6	20.8
9 18	23 12.01	+13 1.3	2.341	3.316	5.0	21.4	9 18	23 10.77	- 9 55.8	1.653	2.646	4.3	21.0
9 28	23 5.41	+11 46.3	2.344	3.301	6.1	21.4	9 28	23 2.68	-11 5.3	1.690	2.641	8.5	21.2
10 8	22 59.85	+10 25.3	2.374	3.285	8.4	21.5	10 8	22 56.20	-11 58.5	1.751	2.636	12.4	21.5
10 18	22 55.83	+ 9 4.5	2.429	3.269	10.9	21.7	10 18	22 51.95	-12 32.6	1.833	2.630	15.7	21.7
307583	2003 <i>GZ</i> ₃₉		9 10.9 97°30	2°9/ 7.7	18		233038	2005 <i>GE</i>					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
424717	2008 <i>SH</i> ₁₄₉		9 10.9 53°33'	6°0'/17.3 17			433796	2015 <i>BJ</i> ₉₀		9 10.9 287°47'	2°7'/12.8 17		
8 9	23 37.02	+14 58.7	1.429	2.250	19.1	20.6	8 9	23 41.41	+ 2 59.6	1.381	2.250	17.0	21.6
8 19	23 32.92	+14 26.4	1.377	2.270	15.4	20.4	8 19	23 36.58	+ 2 59.9	1.301	2.236	13.1	21.3
8 29	23 26.71	+13 22.3	1.343	2.291	11.4	20.2	8 29	23 29.16	+ 2 40.6	1.242	2.221	8.5	21.0
9 8	23 19.25	+11 49.4	1.332	2.312	7.7	20.1	9 8	23 19.93	+ 2 4.2	1.205	2.207	3.8	20.7
9 18	23 11.64	+ 9 55.5	1.346	2.333	6.0	20.1	9 18	23 10.02	+ 1 15.8	1.194	2.192	4.0	20.7
9 28	23 5.01	+ 7 51.8	1.385	2.355	8.1	20.2	9 28	23 0.86	+ 0 23.3	1.207	2.178	8.8	20.9
10 8	23 0.29	+ 5 50.6	1.450	2.376	11.6	20.5	10 8	22 53.70	- 0 25.0	1.244	2.164	13.7	21.1
10 18	22 58.00	+ 4 2.1	1.537	2.398	15.0	20.8	10 18	22 49.40	- 1 2.2	1.302	2.150	18.0	21.4
102951	1999 <i>XG</i> ₅₆		9 10.9 168°82'	2°8'/14.3 18			208553	2002 <i>AL</i> ₁₆₅		9 10.9 106°69'	2°9'/ 8.3 18		
8 9	23 39.18	+ 7 17.5	2.493	3.314	11.9	20.7	8 9	23 41.24	- 6 58.2	1.422	2.316	15.1	20.0
8 19	23 33.80	+ 6 59.0	2.415	3.318	9.2	20.5	8 19	23 36.01	- 8 23.7	1.374	2.329	10.8	19.8
8 29	23 27.00	+ 6 25.7	2.361	3.322	6.3	20.4	8 29	23 28.53	- 9 59.4	1.349	2.341	6.1	19.6
9 8	23 19.32	+ 5 39.8	2.333	3.326	3.6	20.2	9 8	23 19.72	-11 35.7	1.350	2.353	2.9	19.4
9 18	23 11.41	+ 4 44.7	2.335	3.329	3.1	20.2	9 18	23 10.71	-13 2.3	1.377	2.365	5.8	19.6
9 28	23 4.02	+ 3 45.4	2.366	3.331	5.5	20.3	9 28	23 2.74	-14 10.6	1.429	2.376	10.2	19.9
10 8	22 57.78	+ 2 47.0	2.425	3.333	8.4	20.5	10 8	22 56.79	-14 55.9	1.505	2.388	14.2	20.2
10 18	22 53.18	+ 1 54.2	2.510	3.334	11.1	20.7	10 18	22 53.43	-15 17.0	1.601	2.398	17.5	20.4
72553	2001 <i>EY</i> ₂		9 10.9 35°35'	1°3'/ 9.7 18			379577	2011 <i>BV</i> ₅₀		9 10.9 194°70'	1°0'/11.9 17		
8 9	23 38.57	- 5 5.1	1.669	2.555	13.7	19.5	8 9	23 40.43	+ 1 22.9	1.907	2.765	13.5	21.6
8 19	23 33.88	- 5 51.8	1.608	2.558	9.9	19.3	8 19	23 35.12	+ 0 42.5	1.831	2.763	10.1	21.4
8 29	23 27.24	- 6 49.0	1.570	2.561	5.6	19.1	8 29	23 27.96	- 0 13.2	1.779	2.760	6.1	21.1
9 8	23 19.39	- 7 50.4	1.558	2.564	1.5	18.8	9 8	23 19.60	- 1 20.0	1.753	2.757	2.0	20.9
9 18	23 11.29	- 8 49.0	1.573	2.568	4.1	19.0	9 18	23 10.91	- 2 31.6	1.755	2.754	2.9	20.9
9 28	23 3.97	- 9 37.9	1.614	2.571	8.4	19.3	9 28	23 2.86	- 3 41.2	1.786	2.750	7.1	21.2
10 8	22 58.32	-10 12.3	1.680	2.575	12.3	19.5	10 8	22 56.31	- 4 42.2	1.842	2.745	10.9	21.4
10 18	22 54.91	-10 29.8	1.766	2.578	15.5	19.7	10 18	22 51.86	- 5 30.1	1.922	2.740	14.3	21.6
446648	2015 <i>MA</i> ₁₂₉		9 10.9 348°08'	0°2'/11.1 18			448036	2008 <i>EV</i> ₁₁₃		9 10.9 15°07'	0°7'/11.5 15		
8 9	23 40.19	- 2 39.0	1.865	2.737	13.1	20.8	8 9	23 39.32	- 1 36.9	1.807	2.680	13.5	20.8
8 19	23 34.92	- 2 53.6	1.796	2.737	9.6	20.6	8 19	23 34.32	- 1 45.7	1.741	2.682	9.9	20.6
8 29	23 27.80	- 3 18.5	1.750	2.736	5.6	20.4	8 29	23 27.48	- 2 5.7	1.699	2.684	5.9	20.4
9 8	23 19.52	- 3 49.9	1.730	2.736	1.4	20.1	9 8	23 19.48	- 2 33.5	1.681	2.687	1.7	20.1
9 18	23 10.96	- 4 23.1	1.737	2.735	3.0	20.2	9 18	23 11.23	- 3 4.2	1.691	2.690	3.0	20.2
9 28	23 3.09	- 4 52.8	1.772	2.735	7.2	20.5	9 28	23 3.70	- 3 32.9	1.728	2.693	7.1	20.5
10 8	22 56.76	- 5 14.6	1.833	2.735	11.0	20.7	10 8	22 57.73	- 3 54.7	1.790	2.697	10.9	20.7
10 18	22 52.55	- 5 25.6	1.915	2.735	14.2	20.9	10 18	22 53.89	- 4 6.4	1.874	2.701	14.2	20.9
123994	2001 <i>FL</i> ₆₄		9 10.9 233°77'	0°2'/10.6 18			148219	2000 <i>DP</i> ₄₁		9 10.9 219°05'	0°9'/ 9.9 18		
8 9	23 35.63	- 2 5.3	2.601	3.465	10.1	20.1	8 9	23 40.44	- 3 42.1	1.876	2.751	13.0	20.8
8 19	23 31.25	- 2 56.9	2.518	3.456	7.4	19.9	8 19	23 35.21	- 4 38.7	1.799	2.743	9.4	20.6
8 29	23 25.55	- 3 58.3	2.460	3.446	4.3	19.7	8 29	23 28.05	- 5 47.5	1.746	2.735	5.4	20.3
9 8	23 19.01	- 5 5.6	2.430	3.436	0.9	19.5	9 8	23 19.63	- 7 2.5	1.719	2.726	1.3	20.0
9 18	23 12.21	- 6 13.9	2.429	3.426	2.6	19.6	9 18	23 10.83	- 8 16.9	1.721	2.716	3.7	20.2
9 28	23 5.83	- 7 18.2	2.458	3.415	5.9	19.8	9 28	23 2.65	- 9 23.2	1.751	2.706	8.0	20.4
10 8	23 0.45	- 8 13.8	2.515	3.405	8.9	20.0	10 8	22 55.98	-10 15.7	1.806	2.695	11.9	20.7
10 18	22 56.56	- 8 57.8	2.595	3.394	11.5	20.1	10 18	22 51.46	-10 51.2	1.883	2.684	15.2	20.9
507379	2012 <i>DK</i> ₇₁		9 10.9 173°17'	3°7'/13.8 17			69460	Christibarnard		9 10.9 55°84'	4°8'/14.8 17 R		
8 9	23 43.63	+ 5 53.2	1.569	2.416	16.5	22.3	8 9	23 40.37	+ 8 39.3	1.231	2.088	19.4	18.8
8 19	23 37.77	+ 5 58.5	1.499	2.418	12.8	22.1	8 19	23 35.64	+ 8 31.8	1.181	2.103	15.2	18.6
8 29	23 29.62	+ 5 44.0	1.450	2.419	8.6	22.1	8 29	23 28.42	+ 7 56.5	1.150	2.119	10.5	18.4
9 8	23 19.97	+ 5 11.7	1.425	2.421	4.7	21.6	9 8	23 19.70	+ 6 56.7	1.141	2.135	6.1	18.2
9 18	23 9.91	+ 4 25.9	1.426	2.421	4.3	21.6	9 18	23 10.76	+ 5 39.7	1.156	2.151	5.1	18.2
9 28	23 0.69	+ 3 33.5	1.454	2.422	7.9	21.8	9 28	23 2.97	+ 4 15.8	1.195	2.168	8.7	18.5
10 8	22 53.38	+ 2 42.3	1.507	2.421	12.1	22.0	10 8	22 57.41	+ 2 56.1	1.258	2.184	13.0	18.8
10 18	22 48.65	+ 1 58.7	1.581	2.421	15.7	22.3	10 18	22 54.68	+ 1 48.8	1.341	2.201	16.9	19.0
263016	2007 <i>ET</i> ₁₈₂		9 10.9 141°83'	3°1'/15.4 18			273787	2007 <i>FX</i>		9 10.9 40°93'	3°8'/ 8.0 18		
8 9	23 35.72	+10 12.8	2.745	3.551	11.3	21.0	8 9	23 41.59	-11 28.5	1.366	2.269	15.1	20.2
8 19	23 31.19	+ 9 45.4	2.668	3.560	8.9	20.9	8 19	23 36.31	-12 14.4	1.322	2.279	10.8	20.0
8 29	23 25.45	+ 9 2.6	2.616	3.567	6.3	20.7	8 29	23 28.71	-13 4.3	1.299	2.290	6.4	19.8
9 8	23 18.98	+ 8 6.5	2.590	3.575	4.0	20.6	9 8	23 19.76	-13 49.9	1.300	2.301	3.8	19.6
9 18	23 12.34	+ 7 0.4	2.592	3.582	3.3	20.6	9 18	23 10.66	-14 23.6	1.327	2.313	6.4	19.8
9 28	23 6.16	+ 5 49.2	2.624	3.589	5.1	20.7	9 28	23 2.69	-14 40.0	1.378	2.325	10.5	20.1
10 8	23 0.98	+ 4 38.0	2.685	3.596	7.6	20.9	10 8	22 56.84	-14 36.7	1.452	2.337	14.4	20.4
10 18	22 57.22	+ 3 31.5	2.771	3.602	10.0	21.0	10 18	22 53.67	-14 14.2	1.545	2.350	17.7	20.6
295633	2008 <i>SP</i> ₂₅₁		9 10.9 252°22'	1°3'/12.1 18			73286	2002 <i>JF</i> ₆₄		9 10.9 101°95'	2°4'/13.9 18		
8 9	23 39.10	+ 1 37.4	1.897	2.757	13.5	21.6	8 9	23 36.51	+ 5 56.6	2.371	3.206	12.0	19.5
8 19	23 34.24	+ 1 8.3	1.813	2.745	10.2	21.3	8 19	23 31.92	+ 5 35.9	2.300	3.213	9.2	19.4
8 29	23 27.49	+ 0 23.8	1.752	2.733	6.3	21.1	8 29	23 25.95	+ 5 0.8	2.253	3.221	6.1	19.2
9 8	23 19.48	- 0 32.4	1.717	2.720	2.2	20.8	9 8	23 19.13	+ 4 13.9	2.232	3.228	3.2	19.0
9 18	23 11.05	- 1 35.0	1.709	2.708	2.9	20.8	9 18	23 12.13	+ 3 18.9	2.240	3.236	2.9	19.0
9 28	23 3.19	- 2 37.4	1.729	2.695	7.1	21.1	9 28	23 5.65	+ 2 21.0	2.276	3.243	5.5	19.2
10 8	22 56.77	- 3 33.0	1.775	2.682	11.0	21.3	10 8	23 0.34	+ 1 25.3	2.339	3.250	8.5	19.4
10 18	22 52.45	- 4 16.9	1.844	2.668	14.5	21.5	10 18	22 56.64	+ 0 36.3	2.427	3.257	11.3	19.6
131062	2000 <i>YG</i>												

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
388610	2007 <i>RC</i> ₃₀₀		9 10.9 144°66	3°1/ 7.8 18			165524	2001 <i>CM</i> ₂₂		9 10.9 263°77	6°3/15.8 18		
8 9	23 40.49	-11 27.7	1.946	2.835	11.9	20.9	8 9	23 44.78	+12 8.1	1.989	2.789	15.2	20.3
8 19	23 35.06	-12 17.2	1.887	2.838	8.6	20.7	8 19	23 38.55	+12 58.3	1.892	2.771	12.6	20.0
8 29	23 27.85	-13 10.1	1.853	2.842	5.1	20.5	8 29	23 30.16	+13 31.0	1.816	2.753	9.7	19.8
9 8	23 19.58	-14 0.3	1.845	2.845	3.1	20.4	9 8	23 20.21	+13 44.5	1.765	2.734	7.1	19.6
9 18	23 11.10	-14 41.7	1.865	2.848	5.2	20.6	9 18	23 9.60	+13 38.7	1.741	2.716	6.4	19.6
9 28	23 3.35	-15 9.5	1.912	2.851	8.6	20.8	9 28	22 59.41	+13 16.7	1.744	2.696	8.2	19.6
10 8	22 57.13	-15 21.2	1.984	2.853	11.9	21.0	10 8	22 50.71	+12 44.0	1.773	2.677	11.2	19.8
10 18	22 52.98	-15 16.2	2.077	2.856	14.7	21.2	10 18	22 44.27	+12 7.3	1.825	2.657	14.3	19.9
195117	2002 <i>CT</i> ₁₄₃		9 10.9 211°03	0°1/10.6 18			343461	2010 <i>EG</i> ₄₄		9 10.9 213°32	3°4/ 6.8 18		
8 9	23 30.06	- 3 36.1	4.872	5.731	5.8	20.7	8 9	23 38.80	-11 5.3	2.127	3.014	11.1	21.0
8 19	23 26.73	- 4 5.8	4.791	5.727	4.2	20.6	8 19	23 33.85	-12 32.1	2.057	3.008	8.0	20.8
8 29	23 22.76	- 4 39.4	4.738	5.724	2.4	20.4	8 29	23 27.22	-14 4.6	2.013	3.001	4.9	20.6
9 8	23 18.40	- 5 15.3	4.714	5.720	0.5	20.3	9 8	23 19.50	-15 35.4	1.997	2.993	3.5	20.5
9 18	23 13.95	- 5 51.4	4.720	5.716	1.4	20.3	9 18	23 11.46	-16 57.1	2.009	2.985	5.6	20.6
9 28	23 9.70	- 6 25.5	4.756	5.712	3.3	20.5	9 28	23 3.98	-18 3.5	2.050	2.976	8.8	20.8
10 8	23 5.96	- 6 55.9	4.821	5.708	5.0	20.6	10 8	22 57.84	-18 50.6	2.115	2.967	12.0	21.0
10 18	23 2.94	- 7 21.0	4.912	5.704	6.6	20.7	10 18	22 53.60	-19 17.3	2.202	2.958	14.6	21.2
155580	1999 <i>XE</i> ₂₃₂		9 10.9 254°69	0°9/ 9.9 18			148297	2000 <i>HH</i> ₇₂		9 10.9 146°30	1°4/ 9.6 17		
8 9	23 37.70	- 5 29.2	2.457	3.329	10.4	20.8	8 9	23 41.89	- 5 39.1	1.822	2.701	13.1	21.0
8 19	23 32.85	- 6 3.1	2.373	3.316	7.5	20.6	8 19	23 36.16	- 6 27.1	1.763	2.709	9.4	20.8
8 29	23 26.54	- 6 44.3	2.314	3.303	4.3	20.4	8 29	23 28.55	- 7 23.9	1.727	2.716	5.3	20.6
9 8	23 19.30	- 7 28.7	2.283	3.289	1.1	20.1	9 8	23 19.80	- 8 23.7	1.717	2.723	1.6	20.4
9 18	23 11.76	- 8 12.0	2.281	3.276	3.0	20.3	9 18	23 10.83	- 9 20.0	1.736	2.730	4.0	20.5
9 28	23 4.66	- 8 49.8	2.308	3.262	6.4	20.5	9 28	23 2.65	-10 6.6	1.783	2.736	8.0	20.8
10 8	22 58.68	- 9 18.3	2.361	3.247	9.6	20.7	10 8	22 56.11	-10 39.1	1.854	2.741	11.7	21.0
10 18	22 54.32	- 9 35.4	2.438	3.233	12.3	20.8	10 18	22 51.76	-10 55.8	1.948	2.746	14.8	21.3
312788	2010 <i>VF</i> ₁₂₇		9 10.9 310°36	2°2/15.1 16			63731	2001 <i>QE</i> ₂₄₁		9 10.9 190°72	0°3/11.2 18		
8 9	23 31.05	+ 8 8.2	4.038	4.848	7.9	20.5	8 9	23 38.06	- 1 20.7	1.999	2.868	12.5	18.9
8 19	23 27.58	+ 7 58.4	3.943	4.838	6.2	20.4	8 19	23 33.32	- 1 55.0	1.929	2.868	9.2	18.7
8 29	23 23.31	+ 7 39.4	3.873	4.827	4.4	20.2	8 29	23 26.90	- 2 41.0	1.882	2.868	5.4	18.5
9 8	23 18.54	+ 7 12.2	3.830	4.817	2.7	20.1	9 8	23 19.43	- 3 34.4	1.862	2.868	1.3	18.2
9 18	23 13.61	+ 6 38.6	3.817	4.806	2.3	20.1	9 18	23 11.69	- 4 29.9	1.869	2.868	2.8	18.3
9 28	23 8.92	+ 6 1.0	3.832	4.796	3.7	20.2	9 28	23 4.57	- 5 21.7	1.905	2.867	6.8	18.6
10 8	23 4.83	+ 5 22.2	3.876	4.786	5.5	20.3	10 8	22 58.83	- 6 4.5	1.966	2.867	10.4	18.8
10 18	23 1.65	+ 4 44.9	3.947	4.776	7.3	20.4	10 18	22 55.02	- 6 35.0	2.050	2.867	13.5	19.0
388235	2006 <i>KW</i> ₁₇		9 10.9 77°14	5°8/ 4.8 17			259090	2002 <i>VD</i> ₉₇		9 10.9 250°20	3°3/14.5 18		
8 9	23 38.90	-16 24.0	1.697	2.598	12.7	20.7	8 9	23 38.84	+ 7 34.6	2.221	3.048	13.0	20.9
8 19	23 34.09	-18 3.4	1.656	2.610	9.3	20.5	8 19	23 33.90	+ 7 27.8	2.128	3.034	10.2	20.7
8 29	23 27.35	-19 42.0	1.640	2.622	6.5	20.4	8 29	23 27.28	+ 7 4.6	2.058	3.020	7.1	20.5
9 8	23 19.48	-21 10.2	1.650	2.633	6.0	20.4	9 8	23 19.54	+ 6 26.4	2.014	3.005	4.2	20.3
9 18	23 11.45	-22 19.8	1.686	2.645	8.1	20.5	9 18	23 11.39	+ 5 36.5	1.997	2.990	3.6	20.2
9 28	23 4.30	-23 5.4	1.747	2.657	11.2	20.7	9 28	23 3.69	+ 4 39.7	2.009	2.975	6.3	20.4
10 8	22 58.88	-23 25.3	1.831	2.669	14.1	20.9	10 8	22 57.23	+ 3 42.2	2.048	2.959	9.5	20.5
10 18	22 55.71	-23 21.1	1.933	2.680	16.7	21.2	10 18	22 52.59	+ 2 49.4	2.110	2.943	12.6	20.7
132205	2002 <i>EU</i> ₅₃		9 10.9 358°73	0°6/11.5 18			508461	2016 <i>NV</i> ₂₃		9 10.9 135°67	1°8/12.7 17		
8 9	23 34.07	+ 2 59.9	1.437	2.315	16.0	19.3	8 9	23 41.32	+ 3 44.6	1.774	2.625	14.6	21.8
8 19	23 30.94	+ 1 32.8	1.370	2.313	11.9	19.0	8 19	23 35.78	+ 3 3.5	1.711	2.637	11.0	21.6
8 29	23 25.71	+ 0 18.6	1.326	2.312	7.1	18.8	8 29	23 28.35	+ 2 4.7	1.671	2.649	6.9	21.3
9 8	23 19.14	+ 0 26.3	1.306	2.311	2.0	18.4	9 8	23 19.76	+ 0 52.7	1.657	2.659	2.8	21.1
9 18	23 12.21	+ 4 39.3	1.312	2.311	3.5	18.5	9 18	23 10.95	+ 0 25.9	1.671	2.669	3.0	21.2
9 28	23 6.06	+ 6 44.9	1.345	2.312	8.6	18.9	9 28	23 2.94	+ 1 43.3	1.713	2.679	7.1	21.4
10 8	23 1.66	+ 8 32.4	1.402	2.313	13.1	19.1	10 8	22 56.58	+ 2 52.4	1.781	2.688	11.0	21.7
10 18	22 59.62	+ 9 55.5	1.481	2.315	16.9	19.4	10 18	22 52.43	+ 3 48.1	1.871	2.696	14.3	21.9
210932	2001 <i>TY</i> ₁₆₀		9 10.9 341°44	3°3/14.5 18			380764	2005 <i>TM</i> ₁₁₆		9 10.9 23°35	3°4/13.9 16		
8 9	23 35.25	+ 8 21.2	1.824	2.664	14.8	20.3	8 9	23 37.01	+ 6 34.9	1.303	2.170	18.0	21.0
8 19	23 31.46	+ 7 45.7	1.747	2.661	11.6	20.0	8 19	23 33.23	+ 6 9.6	1.244	2.174	13.9	20.8
8 29	23 25.89	+ 6 48.4	1.692	2.658	7.9	19.8	8 29	23 27.10	+ 5 18.7	1.204	2.179	9.3	20.5
9 8	23 19.17	+ 5 32.3	1.661	2.656	4.4	19.6	9 8	23 19.50	+ 4 6.3	1.186	2.185	4.7	20.3
9 18	23 12.13	+ 4 3.2	1.657	2.653	3.6	19.6	9 18	23 11.56	+ 2 39.9	1.193	2.191	4.1	20.3
9 28	23 5.70	+ 2 29.1	1.681	2.651	6.8	19.8	9 28	23 4.56	+ 1 10.3	1.225	2.198	8.3	20.5
10 8	23 0.72	+ 0 58.5	1.730	2.649	10.5	20.0	10 8	22 59.56	+ 0 12.1	1.280	2.206	12.8	20.8
10 18	22 57.75	+ 0 21.3	1.803	2.648	13.9	20.2	10 18	22 57.21	+ 1 19.5	1.356	2.214	16.8	21.1
341989	2008 <i>RL</i> ₂		9 10.9 287°47	0°9/11.5 18			142074	2002 <i>QW</i> ₄₁		9 10.9 42°71	2°5/ 9.2 17		
8 9	23 44.79	- 2 30.3	1.640	2.511	14.7	20.9	8 9	23 42.23	- 7 42.7	1.157	2.062	17.0	19.4
8 19	23 38.62	- 2 17.0	1.564	2.503	10.9	20.6	8 19	23 37.06	- 8 21.0	1.116	2.075	12.2	19.2
8 29	23 30.16	- 2 13.8	1.510	2.495	6.6	20.4	8 29	23 29.27	- 9 8.4	1.096	2.089	7.0	18.9
9 8	23 20.18	- 2 18.1	1.482	2.488	1.9	20.1	9 8	23 19.97	- 9 56.4	1.098	2.103	2.6	18.7
9 18	23 9.75	- 2 26.0	1.481	2.480	3.3	20.2	9 18	23 10.54	-10 36.5	1.124	2.118	5.6	18.9
9 28	23 0.09	- 2 32.8	1.508	2.473	8.0	20.4	9 28	23 2.43	-11 1.6	1.175	2.133	10.6	19.3
10 8	22 52.28	- 2 34.5	1.559	2.465	12.3	20.7	10 8	22 56.72	-11 8.0	1.247	2.149	15.0	19.6
10 18	22 47.01	- 2 27.7	1.632	2.458	16.0	20.9	10 18	22 53.97	-10 55.2	1.337	2.165	18.7	19.9
208768	2002 <i>PZ</i>												

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
326768	2003 <i>SX</i> ₁₈₀		9 10.9 343°52	4°5/13.5	18		293876	2007 <i>RM</i> ₂₇₁		9 10.9 57°84	7°9/20.1	18	
8 9	23 38.16	+ 3 27.8	1.003	1.894	20.2	20.4	8 9	23 37.28	+20 20.5	1.864	2.632	17.2	19.9
8 19	23 34.82	+ 4 7.0	0.937	1.882	15.7	20.1	8 19	23 32.97	+20 28.7	1.793	2.639	14.6	19.7
8 29	23 28.43	+ 4 24.3	0.889	1.870	10.6	19.8	8 29	23 26.80	+20 9.1	1.740	2.647	11.9	19.5
9 8	23 19.88	+ 4 20.0	0.861	1.861	5.7	19.5	9 8	23 19.45	+19 21.0	1.709	2.655	9.3	19.4
9 18	23 10.59	+ 3 57.9	0.854	1.852	5.4	19.4	9 18	23 11.81	+18 7.2	1.702	2.663	7.9	19.3
9 28	23 2.30	+ 3 25.8	0.869	1.845	10.2	19.7	9 28	23 4.86	+16 34.1	1.722	2.672	8.5	19.4
10 8	22 56.54	+ 2 53.4	0.904	1.840	15.6	20.0	10 8	22 59.46	+14 51.0	1.766	2.680	10.6	19.5
10 18	22 54.21	+ 2 29.0	0.956	1.836	20.3	20.2	10 18	22 56.19	+13 7.3	1.835	2.689	13.3	19.7
190641	2000 <i>XD</i> ₃		9 10.9 357°17	5°0/14.4	18		509705	2008 <i>SM</i> ₅₆		9 10.9 153°66	2°7/14.1	18	
8 9	23 42.56	+ 6 37.1	1.480	2.330	17.1	19.2	8 9	23 38.22	+ 7 45.8	2.003	2.836	13.9	21.3
8 19	23 37.19	+ 7 17.9	1.411	2.328	13.6	19.0	8 19	23 33.45	+ 6 59.8	1.930	2.841	10.8	21.1
8 29	23 29.41	+ 7 39.7	1.361	2.327	9.6	18.7	8 29	23 26.99	+ 5 54.0	1.880	2.847	7.2	20.9
9 8	23 20.05	+ 7 42.4	1.335	2.326	5.9	18.5	9 8	23 19.49	+ 4 32.0	1.856	2.852	3.8	20.7
9 18	23 10.22	+ 7 28.4	1.334	2.326	5.3	18.5	9 18	23 11.74	+ 2 59.7	1.860	2.856	3.2	20.6
9 28	23 1.22	+ 7 2.9	1.358	2.326	8.4	18.7	9 28	23 4.62	+ 1 24.6	1.892	2.860	6.4	20.9
10 8	22 54.18	+ 6 32.9	1.407	2.326	12.4	18.9	10 8	22 58.90	- 0 5.4	1.952	2.864	9.9	21.1
10 18	22 49.83	+ 6 5.2	1.476	2.328	16.1	19.2	10 18	22 55.10	- 1 24.2	2.036	2.867	13.1	21.3
421473	2014 <i>OH</i> ₂₈		9 10.9 329°02	7°1/ 2.3	17		314562	2005 <i>YX</i> ₁₆₈		9 10.9 81°72	3°4/14.6	18	
8 9	23 34.59	-20 14.8	1.791	2.697	11.9	20.2	8 9	23 39.03	+ 7 22.1	2.256	3.082	12.8	20.8
8 19	23 31.17	-22 4.5	1.729	2.681	9.2	20.0	8 19	23 33.86	+ 7 29.0	2.186	3.090	10.0	20.6
8 29	23 25.83	-23 52.9	1.692	2.665	7.3	19.9	8 29	23 27.16	+ 7 21.0	2.139	3.099	7.0	20.4
9 8	23 19.22	-25 30.2	1.680	2.650	7.5	19.9	9 8	23 19.53	+ 6 59.5	2.118	3.107	4.2	20.3
9 18	23 12.23	-26 47.5	1.694	2.635	9.6	20.0	9 18	23 11.68	+ 6 27.3	2.124	3.116	3.6	20.2
9 28	23 5.86	-27 38.3	1.732	2.621	12.5	20.1	9 28	23 4.41	+ 5 48.9	2.159	3.124	6.0	20.4
10 8	23 1.03	-28 0.4	1.791	2.607	15.3	20.3	10 8	22 58.41	+ 5 9.2	2.221	3.133	8.9	20.6
10 18	22 58.36	-27 54.9	1.867	2.594	17.8	20.5	10 18	22 54.18	+ 4 32.9	2.307	3.141	11.6	20.8
65632	5177 <i>T</i> ₋₃		9 10.9 328°44	3°0/ 7.8	18		70926	1999 <i>VJ</i> ₂₀₈		9 10.9 295°20	0°2/11.1	18	
8 9	23 34.78	- 7 47.4	1.650	2.549	13.1	18.6	8 9	23 38.23	- 1 13.8	1.738	2.613	13.8	19.7
8 19	23 31.33	- 9 12.4	1.581	2.538	9.4	18.3	8 19	23 33.72	- 1 52.2	1.665	2.607	10.2	19.4
8 29	23 25.93	-10 48.3	1.535	2.528	5.4	18.1	8 29	23 27.28	- 2 44.7	1.615	2.602	6.0	19.2
9 8	23 19.25	-12 26.6	1.515	2.517	3.0	17.9	9 8	23 19.58	- 3 46.2	1.591	2.597	1.5	18.9
9 18	23 12.19	-13 58.0	1.521	2.508	5.7	18.1	9 18	23 11.52	- 4 50.4	1.593	2.592	3.2	19.0
9 28	23 5.78	-15 13.8	1.554	2.499	9.7	18.3	9 28	23 4.13	- 5 50.1	1.623	2.586	7.7	19.3
10 8	23 0.94	-16 8.3	1.610	2.490	13.6	18.5	10 8	22 58.31	- 6 38.9	1.677	2.581	11.7	19.5
10 18	22 58.29	-16 39.1	1.685	2.482	16.8	18.7	10 18	22 54.68	- 7 13.0	1.753	2.576	15.2	19.7
450728	2007 <i>EV</i> ₂₂₁		9 10.9 351°07	2°4/ 8.9	18		188500	2004 <i>PA</i> ₉₈		9 10.9 321°67	3°8/ 7.2	18	
8 9	23 40.98	-10 40.5	1.901	2.789	12.2	20.0	8 9	23 40.23	-14 20.5	2.034	2.924	11.4	19.7
8 19	23 35.51	-10 56.3	1.835	2.786	8.8	19.7	8 19	23 34.90	-14 59.8	1.971	2.921	8.3	19.5
8 29	23 28.19	-11 15.3	1.793	2.783	5.1	19.5	8 29	23 27.83	-15 39.8	1.932	2.918	5.2	19.3
9 8	23 19.75	-11 32.6	1.778	2.781	2.4	19.3	9 8	23 19.70	-16 14.7	1.920	2.915	3.8	19.2
9 18	23 11.06	-11 43.6	1.790	2.779	4.5	19.5	9 18	23 11.33	-16 39.4	1.935	2.912	5.7	19.3
9 28	23 3.09	-11 44.6	1.829	2.778	8.2	19.7	9 28	23 3.66	-16 50.0	1.978	2.910	8.8	19.5
10 8	22 56.70	-11 33.3	1.893	2.777	11.7	19.9	10 8	22 57.45	-16 44.5	2.045	2.907	11.9	19.7
10 18	22 52.41	-11 9.1	1.978	2.776	14.6	20.1	10 18	22 53.25	-16 23.1	2.133	2.905	14.5	19.9
213526	2002 <i>HW</i> ₁		9 10.9 239°00	4°4/ 7.6	18		58560	1997 <i>LK</i> ₁₁		9 10.9 145°63	1°2/ 9.4	18	
8 9	23 44.26	-12 44.2	1.432	2.330	14.8	20.3	8 9	23 37.74	- 6 28.4	2.457	3.332	10.3	19.8
8 19	23 38.46	-13 36.7	1.371	2.326	10.8	20.1	8 19	23 32.80	- 7 10.6	2.392	3.337	7.4	19.6
8 29	23 30.15	-14 32.9	1.332	2.321	6.7	19.9	8 29	23 26.50	- 7 58.9	2.353	3.343	4.2	19.5
9 8	23 20.22	-15 24.3	1.318	2.316	4.4	19.7	9 8	23 19.38	- 8 48.9	2.342	3.348	1.3	19.3
9 18	23 9.92	-16 2.6	1.329	2.311	7.0	19.9	9 18	23 12.09	- 9 36.0	2.360	3.352	3.2	19.4
9 28	23 0.60	-16 21.5	1.366	2.306	11.2	20.1	9 28	23 5.33	-10 16.0	2.407	3.357	6.4	19.6
10 8	22 53.41	-16 18.5	1.425	2.300	15.3	20.3	10 8	22 59.72	-10 45.5	2.480	3.361	9.3	19.8
10 18	22 49.04	-15 54.2	1.503	2.295	18.7	20.5	10 18	22 55.71	-11 2.7	2.576	3.365	11.9	20.0
259805	2004 <i>BW</i> ₉₅		9 10.9 248°95	6°3/ 6.5	18		296643	2009 <i>SF</i> ₁₁₅		9 10.9 15°43	3°4/14.5	18	
8 9	23 52.79	-21 0.9	1.813	2.690	13.2	20.5	8 9	23 34.19	+ 7 29.7	1.679	2.530	15.4	20.1
8 19	23 44.45	-21 31.5	1.734	2.671	10.2	20.3	8 19	23 30.77	+ 7 6.0	1.616	2.536	11.9	19.9
8 29	23 33.57	-21 56.1	1.680	2.653	7.4	20.1	8 29	23 25.53	+ 6 20.9	1.573	2.543	8.1	19.7
9 8	23 21.02	-22 7.2	1.652	2.633	6.3	20.0	9 8	23 19.18	+ 5 17.9	1.555	2.550	4.5	19.5
9 18	23 7.99	-21 58.6	1.653	2.613	8.2	20.0	9 18	23 12.58	+ 4 2.7	1.562	2.559	3.7	19.5
9 28	22 55.86	-21 27.4	1.681	2.592	11.5	20.2	9 28	23 6.69	+ 2 43.1	1.596	2.568	6.9	19.7
10 8	22 45.79	-20 34.4	1.733	2.570	14.9	20.4	10 8	23 2.32	+ 1 27.4	1.655	2.578	10.6	19.9
10 18	22 38.52	-19 22.8	1.807	2.548	17.8	20.5	10 18	23 0.03	+ 0 22.2	1.736	2.588	14.0	20.2
50413	<i>Petr</i> _{ginz}		9 10.9 351°39	5°4/ 5.8	18	R	384307	2009 <i>SJ</i> ₈₈		9 10.9 319°23	2°6/ 8.9	18	
8 9	23 34.82	-12 55.7	1.365	2.279	14.3	18.0	8 9	23 37.99	- 7 15.9	1.279	2.183	15.7	20.3
8 19	23 31.64	-14 30.2	1.310	2.273	10.4	17.7	8 19	23 34.23	- 8 8.6	1.207	2.166	11.4	20.0
8 29	23 26.21	-16 10.4	1.277	2.267	6.7	17.5	8 29	23 27.90	- 9 13.8	1.156	2.150	6.6	19.7
9 8	23 19.33	-17 45.0	1.269	2.263	5.5	17.4	9 8	23 19.79	-10 23.5	1.129	2.133	2.7	19.4
9 18	23 12.10	-19 3.5	1.285	2.260	8.2	17.6	9 18	23 11.07	-11 27.8	1.125	2.118	5.8	19.5
9 28	23 5.74	-19 57.5	1.325	2.257	12.1	17.8	9 28	23 3.17	-12 17.4	1.146	2.103	11.0	19.8
10 8	23 1.27	-20 23.2	1.385	2.256	15.9	18.0	10 8	22 57.34	-12 45.8	1.188	2.089	15.8	20.0
10 18	22 59.34	-20 20.9	1.464	2.256	19.2	18.3	10 18	22 54.37	-12 50.6	1.249	2.076	19.9	20.3
258699	2002 <i>GS</i> ₃₄		9 10.9 63°83	3°6/ 7.7	18		49350	<i>Kat</</i>					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
260254	2004 <i>RE</i> ₃₄₇		9 10.9 39°58'	5°1/17.4	18		28254	Raghrama		9 10.9 240°69'	1°5/12.3	18	
8 9	23 35.24	+14 39.8	2.136	2.933	14.4	20.1	8 9	23 41.45	+1 32.4	1.810	2.668	14.1	18.7
8 19	23 31.27	+14 19.9	2.059	2.937	11.8	19.9	8 19	23 36.11	+1 14.9	1.727	2.658	10.6	18.5
8 29	23 25.74	+13 37.7	2.003	2.941	8.9	19.8	8 29	23 28.73	+0 42.3	1.666	2.647	6.6	18.2
9 8	23 19.24	+12 34.5	1.972	2.945	6.2	19.6	9 8	23 19.98	-0 2.2	1.632	2.635	2.5	17.9
9 18	23 12.50	+11 14.2	1.967	2.949	5.1	19.5	9 18	23 10.78	-0 53.6	1.625	2.624	3.1	18.0
9 28	23 6.31	+9 43.1	1.990	2.953	6.5	19.6	9 28	23 2.18	-1 45.5	1.645	2.611	7.3	18.2
10 8	23 1.39	+8 9.0	2.040	2.958	9.2	19.8	10 8	22 55.15	-2 31.6	1.691	2.599	11.4	18.4
10 18	22 58.26	+6 39.2	2.114	2.963	12.0	20.0	10 18	22 50.37	-3 7.1	1.760	2.586	15.0	18.6
425889	2011 <i>FC</i> ₄₈		9 10.9 40°98'	2°4/13.0	16		158717	2003 <i>HP</i> ₄₅		9 10.9 51°97'	3°3/8.5	18	
8 9	23 38.11	+4 32.8	1.249	2.124	18.1	20.4	8 9	23 43.28	-10 24.0	1.345	2.244	15.5	19.5
8 19	23 33.86	+3 53.7	1.211	2.148	13.6	20.2	8 19	23 37.47	-11 6.4	1.310	2.266	11.0	19.4
8 29	23 27.35	+2 51.6	1.192	2.173	8.6	20.0	8 29	23 29.39	-11 53.1	1.297	2.289	6.4	19.2
9 8	23 19.60	+1 33.1	1.197	2.199	3.6	19.7	9 8	23 20.07	-12 36.1	1.309	2.311	3.3	19.0
9 18	23 11.78	+0 7.2	1.226	2.226	3.6	19.8	9 18	23 10.77	-13 8.4	1.346	2.334	5.9	19.3
9 28	23 5.11	-1 15.6	1.280	2.253	8.2	20.2	9 28	23 2.72	-13 24.6	1.408	2.357	10.1	19.6
10 8	23 0.52	-2 26.4	1.358	2.280	12.5	20.5	10 8	22 56.86	-13 22.7	1.493	2.381	13.9	19.8
10 18	22 58.50	-3 19.8	1.457	2.308	16.2	20.8	10 18	22 53.66	-13 3.1	1.597	2.404	17.1	20.1
333924	1999 <i>TM</i> ₂₆₃		9 10.9 333°34'	3°4/14.7	18		270946	2002 <i>VK</i> ₄₂		9 10.9 349°50'	0°5/11.3	18	
8 9	23 35.03	+8 16.3	1.955	2.792	14.1	20.7	8 9	23 35.20	-1 31.5	1.023	1.931	18.5	20.2
8 19	23 31.27	+7 52.9	1.874	2.785	11.1	20.5	8 19	23 32.51	-1 49.0	0.962	1.920	13.7	19.9
8 29	23 25.82	+7 9.6	1.815	2.779	7.7	20.3	8 29	23 27.02	-2 26.2	0.920	1.912	8.2	19.6
9 8	23 19.28	+6 9.0	1.780	2.773	4.4	20.1	9 8	23 19.63	-3 17.4	0.898	1.905	2.1	19.2
9 18	23 12.40	+4 55.5	1.773	2.767	3.7	20.0	9 18	23 11.68	-4 13.6	0.899	1.899	4.3	19.3
9 28	23 6.07	+3 36.0	1.792	2.762	6.5	20.2	9 28	23 4.76	-5 4.4	0.922	1.895	10.3	19.7
10 8	23 1.07	-2 17.9	1.838	2.757	10.0	20.4	10 8	23 0.19	-5 40.8	0.964	1.893	15.7	20.0
10 18	22 57.98	+1 7.9	1.908	2.753	13.2	20.6	10 18	22 58.77	-5 57.7	1.025	1.892	20.3	20.2
450065	2015 <i>RP</i> ₄₆		9 10.9 150°19'	1°8/13.1	18		358321	2006 <i>UY</i> ₃₄₅		9 10.9 317°94'	0°6/11.5	18	
8 9	23 36.46	+4 20.6	2.246	3.091	12.2	21.7	8 9	23 37.77	-0 36.0	1.870	2.741	13.2	21.6
8 19	23 32.04	+3 43.8	2.172	3.093	9.3	21.6	8 19	23 33.30	-1 3.2	1.796	2.735	9.8	21.4
8 29	23 26.15	+2 52.1	2.121	3.096	5.9	21.4	8 29	23 27.02	-1 43.4	1.744	2.729	5.9	21.2
9 8	23 19.34	+1 48.8	2.097	3.098	2.6	21.1	9 8	23 19.58	-2 32.6	1.718	2.724	1.7	20.9
9 18	23 12.30	+0 38.8	2.102	3.100	2.6	21.1	9 18	23 11.81	-3 25.4	1.719	2.718	2.9	20.9
9 28	23 5.78	-0 32.0	2.135	3.102	5.8	21.4	9 28	23 4.65	-4 15.7	1.748	2.713	7.1	21.2
10 8	23 0.48	-1 37.8	2.195	3.104	9.1	21.6	10 8	22 58.94	-4 57.8	1.802	2.708	10.9	21.4
10 18	22 56.86	-2 33.9	2.279	3.105	12.0	21.8	10 18	22 55.26	-5 27.9	1.878	2.704	14.2	21.6
389164	2009 <i>BL</i> ₆₃		9 10.9 55°18'	2°0/8.9	18		459873	2014 <i>FJ</i>		9 10.9 172°88'	19°3/22.3	16	
8 9	23 37.19	-5 42.9	1.698	2.588	13.3	20.3	8 9	23 52.85	-44 43.9	1.185	2.041	20.1	20.3
8 19	23 32.90	-6 56.8	1.643	2.595	9.5	20.1	8 19	23 46.00	-47 29.8	1.175	2.043	19.3	20.3
8 29	23 26.75	-8 21.1	1.611	2.603	5.4	19.9	8 29	23 34.97	-49 37.4	1.182	2.045	19.5	20.3
9 8	23 19.49	-9 48.0	1.606	2.611	2.0	19.7	9 8	23 21.42	-50 52.0	1.207	2.046	20.5	20.4
9 18	23 12.00	-11 9.5	1.628	2.619	4.6	19.8	9 18	23 7.67	-51 7.0	1.248	2.046	22.0	20.5
9 28	23 5.29	-12 17.8	1.676	2.627	8.6	20.1	9 28	22 56.15	-50 24.9	1.303	2.047	23.7	20.6
10 8	23 0.17	-13 8.0	1.749	2.636	12.3	20.4	10 8	22 48.45	-48 55.3	1.370	2.046	25.4	20.8
10 18	22 57.19	-13 38.0	1.843	2.644	15.4	20.6	10 18	22 45.12	-46 49.7	1.446	2.046	26.7	21.0
77389	2001 <i>FW</i> ₁₅₀		9 10.9 118°79'	0°8/10.2	17		49777	Cappi		9 10.9 123°91'	2°8/13.5	18	R
8 9	23 41.82	-3 25.1	1.608	2.488	14.5	20.2	8 9	23 41.13	+5 14.1	1.580	2.433	16.1	19.4
8 19	23 36.31	-4 15.8	1.553	2.499	10.5	20.0	8 19	23 35.94	+4 54.8	1.515	2.439	12.3	19.2
8 29	23 28.75	-5 18.7	1.520	2.509	6.0	19.8	8 29	23 28.62	+4 15.2	1.472	2.446	8.1	18.9
9 8	23 19.95	-6 27.3	1.513	2.520	1.4	19.5	9 8	23 19.95	+3 18.9	1.452	2.452	3.9	18.7
9 18	23 10.94	-7 33.9	1.534	2.530	3.8	19.7	9 18	23 10.97	+2 11.8	1.460	2.457	3.6	18.7
9 28	23 2.83	-8 31.3	1.581	2.540	8.4	20.0	9 28	23 2.84	+1 1.9	1.493	2.463	7.6	19.0
10 8	22 56.54	-9 13.9	1.653	2.549	12.4	20.3	10 8	22 56.51	-0 2.7	1.552	2.468	11.7	19.2
10 18	22 52.63	-9 39.3	1.746	2.558	15.7	20.5	10 18	22 52.62	-0 55.9	1.633	2.473	15.3	19.5
132697	2002 <i>NU</i> ₃₇		9 10.9 74°33'	1°2/12.2	16		84584	2002 <i>VS</i> ₂₇		9 10.9 29°81'	4°4/14.6	18	
8 9	23 38.38	+2 38.9	1.731	2.593	14.5	19.9	8 9	23 39.55	+8 0.2	1.426	2.277	17.6	19.3
8 19	23 33.64	+1 46.1	1.679	2.612	10.7	19.7	8 19	23 35.02	+7 56.4	1.361	2.280	13.8	19.1
8 29	23 27.12	+0 36.5	1.650	2.631	6.5	19.5	8 29	23 28.19	+7 28.5	1.315	2.282	9.6	18.8
9 8	23 19.56	-0 44.3	1.646	2.650	2.2	19.3	9 8	23 19.87	+6 38.6	1.292	2.285	5.6	18.6
9 18	23 11.87	-2 9.1	1.670	2.669	2.9	19.3	9 18	23 11.16	+5 32.2	1.294	2.288	4.7	18.6
9 28	23 5.00	-3 29.8	1.721	2.688	7.0	19.6	9 28	23 3.31	+4 17.9	1.321	2.292	8.1	18.8
10 8	22 59.73	-4 39.5	1.798	2.707	10.8	19.9	10 8	22 57.40	+3 5.3	1.372	2.296	12.3	19.0
10 18	22 56.56	-5 34.0	1.898	2.725	14.0	20.2	10 18	22 54.10	+2 2.3	1.445	2.300	16.1	19.3
72290	2001 <i>BQ</i> ₁₅		9 10.9 100°90'	3°7/13.9	18	R	258001	2001 <i>FO</i> ₉		9 10.9 210°45'	2°3/8.1	18	
8 9	23 44.73	+5 21.9	1.848	2.685	14.8	18.5	8 9	23 38.53	-11 10.6	2.678	3.557	9.4	21.1
8 19	23 38.30	+5 51.3	1.780	2.692	11.5	18.3	8 19	23 33.36	-11 49.5	2.606	3.553	6.7	20.9
8 29	23 29.88	+6 5.5	1.734	2.700	7.8	18.1	8 29	23 26.85	-12 31.0	2.560	3.547	4.0	20.8
9 8	23 20.22	+6 5.2	1.715	2.708	4.5	17.9	9 8	23 19.52	-13 11.0	2.542	3.542	2.3	20.6
9 18	23 10.26	+5 53.0	1.722	2.715	4.1	17.9	9 18	23 11.99	-13 45.4	2.553	3.536	4.0	20.7
9 28	23 1.08	+5 33.1	1.758	2.722	7.1	18.1	9 28	23 4.92	-14 10.6	2.593	3.530	6.7	20.9
10 8	22 53.57	+5 11.1	1.819	2.730	10.6	18.4	10 8	22 58.93	-14 24.2	2.660	3.524	9.4	21.1
10 18	22 48.34	+4 51.6	1.904	2.737	13.8	18.6	10 18	22 54.46	-14 25.3	2.749	3.517	11.7	21.2
442378	2011 <i>TK</i> ₁₇		9 10.9 324°40'	4°0/7.3	17		49167	1998 <i>SP</i> ₅₇		9 10.9 39°97'	2°8/8.9	18	
8 9	23 38.62	-12 26.0	1.637	2.537	13.								

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
163896	2003 <i>SQ</i> ₂₀₆	9 10.9 286°77' 5°9'/ 5.9 18					342609	2008 <i>UL</i> ₃₂₄	9 10.9 218°44' 2°2'/13.3 18				
8 9	23 44.06	-18 50.7	1.779	2.671	12.7	19.8	8 9	23 40.08	+ 4 15.9	2.150	2.991	12.8	21.7
8 19	23 38.14	-19 37.9	1.703	2.650	9.6	19.6	8 19	23 34.83	+ 4 0.1	2.066	2.984	9.8	21.5
8 29	23 29.97	-20 22.7	1.650	2.629	6.8	19.4	8 29	23 27.87	+ 3 29.5	2.004	2.977	6.4	21.3
9 8	23 20.29	-20 57.6	1.624	2.608	6.0	19.3	9 8	23 19.80	+ 2 46.5	1.970	2.969	3.1	21.0
9 18	23 10.14	-21 15.7	1.623	2.587	8.0	19.4	9 18	23 11.38	+ 1 55.2	1.963	2.960	2.9	21.0
9 28	23 0.70	-21 12.6	1.649	2.566	11.3	19.5	9 28	23 3.48	+ 1 0.9	1.985	2.952	6.3	21.2
10 8	22 53.05	-20 47.1	1.697	2.545	14.6	19.7	10 8	22 56.89	+ 0 9.4	2.034	2.942	9.8	21.4
10 18	22 47.88	-20 0.8	1.765	2.523	17.6	19.9	10 18	22 52.18	- 0 34.6	2.107	2.933	12.9	21.6
339356	2005 <i>AA</i> ₃₀	9 10.9 164°86' 5°6'/ 5.9 18					439559	2014 <i>DM</i> ₅₇	9 10.9 168°01' 1°4'/ 9.4 18				
8 9	23 44.29	-19 12.7	1.887	2.776	12.2	20.0	8 9	23 39.13	- 5 45.4	2.216	3.091	11.2	21.9
8 19	23 37.95	-19 59.9	1.832	2.778	9.2	19.8	8 19	23 33.98	- 6 40.9	2.150	3.095	8.1	21.7
8 29	23 29.65	-20 43.4	1.802	2.779	6.5	19.7	8 29	23 27.29	- 7 44.3	2.109	3.098	4.6	21.5
9 8	23 20.18	-21 16.1	1.798	2.780	5.7	19.6	9 8	23 19.65	- 8 50.3	2.095	3.101	1.5	21.3
9 18	23 10.53	-21 32.5	1.820	2.781	7.5	19.8	9 18	23 11.79	- 9 53.2	2.111	3.103	3.6	21.4
9 28	23 1.75	-21 29.4	1.869	2.782	10.4	19.9	9 28	23 4.51	-10 47.6	2.155	3.105	7.1	21.6
10 8	22 54.71	-21 6.3	1.942	2.783	13.3	20.1	10 8	22 58.53	-11 29.3	2.225	3.106	10.3	21.9
10 18	22 49.97	-20 25.1	2.035	2.784	15.9	20.3	10 18	22 54.33	-11 56.2	2.318	3.107	13.0	22.1
480404	2015 <i>KK</i> ₇₇	9 10.9 83°44' 2°5'/ 8.5 16					305833	2009 <i>DN</i> ₁₃₃	9 10.9 83°82' 0°1'/10.9 18				
8 9	23 39.52	- 7 42.9	1.682	2.573	13.4	21.2	8 9	23 38.01	- 1 51.6	1.914	2.786	12.8	21.2
8 19	23 34.56	- 8 52.2	1.633	2.586	9.5	21.0	8 19	23 33.36	- 2 35.1	1.850	2.792	9.4	21.0
8 29	23 27.70	-10 9.3	1.608	2.599	5.4	20.7	8 29	23 26.99	- 3 30.5	1.810	2.797	5.4	20.8
9 8	23 19.73	-11 26.3	1.609	2.612	2.5	20.6	9 8	23 19.59	- 4 32.7	1.796	2.803	1.2	20.5
9 18	23 11.60	-12 35.4	1.636	2.625	5.0	20.8	9 18	23 11.95	- 5 35.8	1.810	2.808	3.0	20.6
9 28	23 4.32	-13 30.1	1.691	2.638	8.9	21.0	9 28	23 4.99	- 6 33.4	1.852	2.813	7.1	20.9
10 8	22 58.74	-14 6.2	1.770	2.651	12.5	21.3	10 8	22 59.47	- 7 20.1	1.919	2.819	10.7	21.1
10 18	22 55.37	-14 22.7	1.869	2.663	15.5	21.5	10 18	22 55.92	- 7 52.8	2.009	2.824	13.8	21.4
389822	2011 <i>XW</i> ₁	9 10.9 274°11' 1°0'/12.8 16					60426	2000 <i>CJ</i> ₄₉	9 10.9 251°95' 1°1'/ 9.6 18				
8 9	23 31.63	+ 1 50.3	4.263	5.102	7.0	21.4	8 9	23 37.05	- 3 28.1	2.022	2.899	12.1	19.6
8 19	23 28.00	+ 1 36.3	4.178	5.098	5.3	21.3	8 19	23 32.73	- 4 42.7	1.942	2.887	8.8	19.3
8 29	23 23.61	+ 1 15.9	4.119	5.093	3.3	21.1	8 29	23 26.70	- 6 10.0	1.886	2.875	5.0	19.1
9 8	23 18.77	+ 0 50.5	4.088	5.089	1.4	21.0	9 8	23 19.55	- 7 43.9	1.857	2.863	1.3	18.8
9 18	23 13.81	+ 0 22.2	4.087	5.085	1.5	21.0	9 18	23 12.03	- 9 17.0	1.857	2.851	3.7	19.0
9 28	23 9.09	- 0 6.9	4.116	5.081	3.4	21.1	9 28	23 5.02	-10 41.7	1.886	2.839	7.7	19.2
10 8	23 4.94	- 0 34.5	4.174	5.077	5.3	21.3	10 8	22 59.33	-11 51.7	1.940	2.826	11.3	19.4
10 18	23 1.65	- 0 58.5	4.258	5.073	7.1	21.4	10 18	22 55.54	-12 43.5	2.017	2.813	14.4	19.6
219300	2000 <i>DB</i> ₆₁	9 10.9 185°84' 0°9'/10.1 18					432635	2010 <i>VJ</i> ₁₆₁	9 10.9 272°85' 2°8'/ 8.8 18				
8 9	23 41.41	- 3 56.7	1.877	2.750	13.0	21.1	8 9	23 43.37	- 8 53.9	1.528	2.419	14.5	22.0
8 19	23 35.91	- 4 45.8	1.807	2.751	9.4	20.9	8 19	23 37.96	- 9 38.0	1.445	2.398	10.6	21.7
8 29	23 28.52	- 5 45.7	1.762	2.750	5.4	20.7	8 29	23 30.05	-10 30.8	1.386	2.377	6.2	21.4
9 8	23 19.94	- 6 50.9	1.743	2.749	1.3	20.4	9 8	23 20.37	-11 25.4	1.351	2.355	2.8	21.1
9 18	23 11.06	- 7 54.9	1.752	2.748	3.6	20.6	9 18	23 10.03	-12 13.6	1.343	2.333	5.6	21.2
9 28	23 2.86	- 8 51.0	1.790	2.746	7.8	20.8	9 28	23 0.38	-12 48.1	1.361	2.311	10.3	21.4
10 8	22 56.22	- 9 34.2	1.853	2.743	11.5	21.0	10 8	22 52.62	-13 4.0	1.402	2.288	14.8	21.7
10 18	22 51.72	-10 1.5	1.938	2.740	14.7	21.2	10 18	22 47.58	-12 59.6	1.462	2.265	18.6	21.9
389231	2009 <i>EY</i> ₁₂	9 10.9 123°77' 4°4'/ 5.7 18					386317	2008 <i>SQ</i> ₈₀	9 10.9 355°67' 5°6'/ 8.0 18				
8 9	23 38.43	-14 35.9	2.066	2.959	11.1	20.5	8 9	23 46.64	-17 10.6	1.238	2.143	16.2	19.1
8 19	23 33.57	-16 2.2	2.016	2.967	8.1	20.4	8 19	23 40.47	-17 15.3	1.182	2.138	12.0	18.8
8 29	23 27.06	-17 29.7	1.991	2.975	5.4	20.2	8 29	23 31.44	-17 15.5	1.147	2.134	7.8	18.6
9 8	23 19.59	-18 50.7	1.994	2.983	4.5	20.2	9 8	23 20.65	-17 3.9	1.136	2.132	5.6	18.5
9 18	23 11.93	-19 58.6	2.025	2.990	6.5	20.3	9 18	23 9.56	-16 34.8	1.148	2.130	7.8	18.6
9 28	23 4.94	-20 48.2	2.082	2.998	9.3	20.5	9 28	22 59.77	-15 46.0	1.185	2.130	12.1	18.8
10 8	22 59.37	-21 17.1	2.163	3.005	12.1	20.7	10 8	22 52.51	-14 38.6	1.244	2.131	16.2	19.1
10 18	22 55.71	-21 25.5	2.265	3.011	14.5	20.9	10 18	22 48.45	-13 16.0	1.321	2.133	19.8	19.3
170089	2002 <i>XR</i> ₃₅	9 10.9 265°41' 3°9'/15.0 18					42245	2001 <i>FB</i> ₈₈	9 10.9 354°73' 6°6'/ 5.5 18				
8 9	23 38.41	+ 8 50.2	2.065	2.890	13.8	20.3	8 9	23 35.10	-15 38.3	1.184	2.105	15.4	16.8
8 19	23 33.72	+ 8 47.4	1.976	2.879	11.0	20.1	8 19	23 32.15	-16 57.3	1.133	2.098	11.4	16.6
8 29	23 27.28	+ 8 26.4	1.910	2.868	7.8	19.8	8 29	23 26.66	-18 17.9	1.103	2.092	7.8	16.4
9 8	23 19.67	+ 7 48.4	1.868	2.857	4.9	19.6	9 8	23 19.56	-19 28.6	1.096	2.088	6.8	16.3
9 18	23 11.65	+ 6 56.7	1.854	2.845	4.1	19.6	9 18	23 12.08	-20 18.8	1.112	2.085	9.4	16.4
9 28	23 4.13	+ 5 56.6	1.867	2.834	6.6	19.7	9 28	23 5.64	-20 41.3	1.149	2.084	13.4	16.7
10 8	22 57.93	+ 4 54.8	1.907	2.822	9.9	19.9	10 8	23 1.37	-20 34.0	1.206	2.084	17.3	16.9
10 18	22 53.66	+ 3 57.3	1.970	2.810	13.1	20.1	10 18	22 59.89	-19 58.9	1.280	2.086	20.7	17.2
521909	2015 <i>TG</i> ₃₈₆	9 10.9 311°21' 4°9'/ 5.0 17					160336	2003 <i>RW</i> ₄	9 10.9 14°09' 3°9'/14.9 18				
8 9	23 36.12	-15 49.8	2.035	2.933	11.0	21.1	8 9	23 32.74	+10 7.1	1.322	2.179	18.4	18.9
8 19	23 32.05	-17 14.8	1.970	2.923	8.1	20.9	8 19	23 30.15	+ 9 10.1	1.260	2.183	14.4	18.7
8 29	23 26.28	-18 41.4	1.931	2.914	5.6	20.7	8 29	23 25.38	+ 7 41.6	1.218	2.188	9.9	18.5
9 8	23 19.43	-20 1.9	1.919	2.905	5.0	20.7	9 8	23 19.25	+ 5 46.6	1.198	2.194	5.4	18.2
9 18	23 12.28	-21 9.0	1.934	2.896	7.0	20.8	9 18	23 12.80	+ 3 35.0	1.203	2.201	4.2	18.2
9 28	23 5.70	-21 57.3	1.975	2.887	9.9	20.9	9 28	23 7.20	+ 1 20.0	1.234	2.209	8.0	18.4
10 8	23 0.48	-22 23.8	2.039	2.879	12.8	21.1	10 8	23 3.45	- 0 45.2	1.288	2.218	12.4	18.7
10 18	22 57.18	-22 28.6	2.123	2.870	15.3	21.3	10 18	23 2.14	- 2 30.6	1.365	2.228	16.4	19.0
332457	2008 <i>CG</i> ₆₉	9 10.9 202°55' 0°8'/10.2 17					506716	2006 <i>UY</i> ₂₀₀ </					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
40461	1999 <i>RW</i> ₄₃	9 10.9 328°23		0°2/11.2 18			506967	2008 <i>RT</i> ₁₁₉	9 10.9 177°75		5°4/ 6.6 18		
8 9	23 34.93	— 0 10.5	1.963	2.834	12.6	18.3	8 9	23 47.10	—18 50.3	1.858	2.744	12.6	21.1
8 19	23 31.18	— 1 5.4	1.887	2.827	9.3	18.1	8 19	23 40.04	—19 25.8	1.801	2.745	9.4	20.9
8 29	23 25.79	— 2 14.6	1.835	2.821	5.5	17.8	8 29	23 30.91	—19 57.5	1.767	2.745	6.5	20.7
9 8	23 19.33	— 3 33.3	1.809	2.815	1.4	17.5	9 8	23 20.54	—20 18.5	1.760	2.746	5.4	20.7
9 18	23 12.57	— 4 54.8	1.811	2.809	2.9	17.6	9 18	23 9.99	—20 23.7	1.781	2.746	7.2	20.8
9 28	23 6.36	— 6 12.0	1.840	2.803	7.0	17.9	9 28	23 0.37	—20 10.1	1.828	2.746	10.3	21.0
10 8	23 1.46	— 7 18.5	1.895	2.798	10.7	18.1	10 8	22 52.60	—19 37.7	1.899	2.745	13.4	21.2
10 18	22 58.42	— 8 10.0	1.973	2.793	13.8	18.3	10 18	22 47.25	—18 48.5	1.991	2.744	16.0	21.4
451958	2014 <i>MB</i> ₅₈	9 10.9 261°39		0°5/10.5 18			319253	2006 <i>AM</i> ₈₃	9 10.9 194°60		2°9/ 7.9 17		
8 9	23 39.63	— 5 4.5	2.318	3.189	11.0	20.8	8 9	23 44.36	—15 3.4	2.806	3.678	9.2	20.7
8 19	23 34.34	— 5 19.8	2.242	3.183	8.0	20.6	8 19	23 37.48	—15 17.5	2.735	3.676	6.7	20.5
8 29	23 27.52	— 5 41.8	2.189	3.177	4.6	20.4	8 29	23 29.22	—15 30.6	2.691	3.673	4.2	20.4
9 8	23 19.73	— 6 7.1	2.165	3.171	1.0	20.1	9 8	23 20.15	—15 39.1	2.675	3.671	2.9	20.3
9 18	23 11.67	— 6 32.0	2.169	3.165	2.8	20.3	9 18	23 10.91	—15 40.0	2.691	3.668	4.3	20.4
9 28	23 4.14	— 6 52.4	2.201	3.159	6.4	20.5	9 28	23 2.22	—15 30.9	2.736	3.664	6.8	20.5
10 8	22 57.84	— 7 5.2	2.260	3.153	9.6	20.7	10 8	22 54.72	—15 11.1	2.808	3.660	9.3	20.7
10 18	22 53.27	— 7 8.4	2.343	3.147	12.4	20.9	10 18	22 48.85	—14 40.6	2.905	3.656	11.5	20.8
426138	2012 <i>HJ</i> ₂₆	9 10.9 119°10		0°3/10.7 16			86645	2000 <i>ES</i> ₁₄₅	9 10.9 257°18		0°2/11.1 18		
8 9	23 42.48	— 2 1.5	1.655	2.528	14.5	22.3	8 9	23 42.21	— 2 2.5	1.722	2.593	14.1	20.4
8 19	23 36.74	— 2 49.0	1.601	2.543	10.5	22.1	8 19	23 36.84	— 2 29.1	1.636	2.577	10.5	20.1
8 29	23 28.99	— 3 49.5	1.569	2.557	6.1	21.9	8 29	23 29.29	— 3 8.8	1.573	2.560	6.2	19.8
9 8	23 20.06	— 4 57.0	1.564	2.570	1.3	21.6	9 8	23 20.23	— 3 57.5	1.536	2.542	1.5	19.5
9 18	23 10.95	— 6 4.2	1.586	2.583	3.5	21.8	9 18	23 10.61	— 4 49.3	1.526	2.525	3.4	19.6
9 28	23 2.74	— 7 3.8	1.635	2.596	7.9	22.1	9 28	23 1.60	— 5 37.2	1.544	2.506	8.1	19.8
10 8	22 56.33	— 7 50.1	1.709	2.608	11.9	22.4	10 8	22 54.23	— 6 15.3	1.586	2.488	12.4	20.0
10 18	22 52.24	— 8 20.3	1.806	2.619	15.2	22.6	10 18	22 49.24	— 6 39.4	1.650	2.469	16.2	20.2
240109	2002 <i>CT</i> ₂₄₃	9 10.9 62°40		1°2/11.8 18			448415	2009 <i>SQ</i> ₁₃₉	9 10.9 335°29		6°0/18.9 18		
8 9	23 46.26	— 1 51.7	1.556	2.425	15.4	19.6	8 9	23 33.58	+18 8.1	2.044	2.825	15.5	20.4
8 19	23 39.52	— 1 35.2	1.504	2.442	11.4	19.4	8 19	23 30.26	+17 36.5	1.955	2.818	13.0	20.2
8 29	23 30.61	— 1 30.2	1.475	2.459	6.9	19.2	8 29	23 25.30	+16 37.7	1.886	2.811	10.1	20.0
9 8	23 20.43	— 1 33.4	1.471	2.475	2.2	19.0	9 8	23 19.27	+15 12.6	1.841	2.804	7.4	19.8
9 18	23 10.12	— 1 40.9	1.493	2.492	3.3	19.1	9 18	23 12.91	+13 25.1	1.821	2.798	6.0	19.7
9 28	23 0.87	— 1 48.2	1.543	2.509	7.8	19.4	9 28	23 7.08	+11 22.7	1.829	2.792	7.1	19.8
10 8	22 53.64	— 1 50.9	1.618	2.526	11.8	19.7	10 8	23 2.54	+ 9 14.9	1.865	2.787	9.7	19.9
10 18	22 48.98	— 1 46.1	1.715	2.544	15.2	19.9	10 18	22 59.86	+ 7 11.3	1.925	2.782	12.6	20.1
480290	2015 <i>HS</i> ₁₄₇	9 10.9 111°05		0°4/10.6 16			485296	2011 <i>AU</i> ₄₂	9 10.9 273°40		5°2/16.3 17		
8 9	23 41.99	— 3 31.7	1.719	2.595	13.9	21.8	8 9	23 40.49	+12 26.3	2.463	3.254	12.8	21.9
8 19	23 36.38	— 4 0.2	1.660	2.603	10.1	21.6	8 19	23 35.10	+12 58.1	2.364	3.238	10.6	21.7
8 29	23 28.79	— 4 39.5	1.623	2.611	5.8	21.4	8 29	23 28.08	+13 14.4	2.288	3.222	8.1	21.5
9 8	23 20.02	— 5 24.3	1.613	2.619	1.3	21.1	9 8	23 19.93	+13 14.5	2.237	3.205	5.9	21.3
9 18	23 11.03	— 6 8.8	1.630	2.627	3.4	21.3	9 18	23 11.34	+12 59.3	2.213	3.188	5.2	21.3
9 28	23 2.87	— 6 47.1	1.674	2.635	7.8	21.6	9 28	23 3.10	+12 31.8	2.218	3.172	6.6	21.3
10 8	22 56.42	— 7 14.4	1.743	2.642	11.7	21.8	10 8	22 56.00	+11 56.5	2.249	3.155	9.1	21.5
10 18	22 52.24	— 7 28.1	1.834	2.649	14.9	22.1	10 18	22 50.62	+11 18.7	2.305	3.138	11.7	21.6
140218	2001 <i>SD</i> ₂₃₇	9 10.9 38°82		0°1/11.1 18			385847	2006 <i>KZ</i> ₂₇	9 10.9 62°54		1°3/12.2 18		
8 9	23 37.17	— 1 5.3	1.628	2.508	14.3	19.9	8 9	23 39.24	+ 1 21.4	1.720	2.586	14.4	21.4
8 19	23 32.94	— 1 50.9	1.574	2.519	10.5	19.7	8 19	23 34.44	+ 0 55.7	1.656	2.591	10.7	21.1
8 29	23 26.81	— 2 50.5	1.542	2.530	6.1	19.4	8 29	23 27.73	+ 0 14.7	1.614	2.596	6.6	20.9
9 8	23 19.57	— 3 58.4	1.535	2.542	1.4	19.2	9 8	23 19.83	— 0 37.6	1.598	2.602	2.3	20.7
9 18	23 12.12	— 5 7.4	1.555	2.554	3.2	19.3	9 18	23 11.66	— 1 35.2	1.608	2.607	3.0	20.7
9 28	23 5.49	— 6 9.9	1.602	2.566	7.7	19.6	9 28	23 4.24	— 2 31.4	1.645	2.613	7.2	21.0
10 8	23 0.50	— 7 0.0	1.673	2.579	11.6	19.9	10 8	22 58.44	— 3 19.8	1.707	2.618	11.2	21.2
10 18	22 57.69	— 7 34.1	1.765	2.592	14.9	20.1	10 18	22 54.83	— 3 56.1	1.792	2.624	14.5	21.5
187625	2007 <i>BF</i> ₁₉	9 10.9 187°28		4°3/ 5.4 18			316129	2009 <i>RH</i> ₆₄	9 10.9 264°11		0°4/10.2 15		
8 9	23 37.54	—15 54.7	2.360	3.251	10.0	20.8	8 9	23 31.46	— 5 31.5	4.545	5.409	6.1	21.3
8 19	23 32.82	—17 13.3	2.302	3.251	7.4	20.6	8 19	23 27.86	— 5 52.8	4.463	5.402	4.4	21.2
8 29	23 26.63	—18 32.4	2.269	3.250	5.0	20.5	8 29	23 23.56	— 6 17.5	4.408	5.395	2.5	21.1
9 8	23 19.53	—19 45.4	2.264	3.249	4.4	20.4	9 8	23 18.83	— 6 43.7	4.382	5.388	0.6	20.9
9 18	23 12.20	—20 46.6	2.287	3.248	6.2	20.5	9 18	23 13.99	— 7 9.5	4.386	5.381	1.6	21.0
9 28	23 5.43	—21 31.4	2.338	3.247	8.8	20.7	9 28	23 9.37	— 7 32.9	4.420	5.374	3.6	21.1
10 8	22 59.87	—21 57.5	2.412	3.246	11.3	20.9	10 8	23 5.29	— 7 52.0	4.482	5.367	5.4	21.2
10 18	22 56.02	—22 4.8	2.508	3.244	13.5	21.0	10 18	23 2.02	— 8 5.5	4.570	5.360	7.0	21.4
51940	2001 <i>QB</i> ₁₇₂	9 10.9 221°20		1°9/13.3 18			288965	2004 <i>TX</i> ₂₇	9 10.9 207°56		2°9/ 7.9 18		
8 9	23 37.93	+ 4 35.2	2.443	3.280	11.6	19.3	8 9	23 40.79	—13 10.4	2.466	3.347	10.0	20.4
8 19	23 33.12	+ 4 3.4	2.355	3.271	8.9	19.1	8 19	23 35.10	—13 40.5	2.398	3.345	7.3	20.3
8 29	23 26.84	+ 3 17.3	2.290	3.262	5.8	18.9	8 29	23 27.93	—14 11.7	2.355	3.342	4.4	20.1
9 8	23 19.61	+ 2 19.7	2.253	3.252	2.7	18.7	9 8	23 19.87	—14 39.5	2.341	3.338	2.9	20.0
9 18	23 12.07	+ 1 14.6	2.244	3.242	2.5	18.7	9 18	23 11.60	—15 0.0	2.355	3.335	4.5	20.1
9 28	23 4.97	+ 0 7.6	2.265	3.231	5.6	18.9	9 28	23 3.90	—15 9.7	2.397	3.331	7.4	20.2
10 8	22 58.97	— 0 56.1	2.314	3.220	8.8	19.1	10 8	22 57.42	—15 6.9	2.466	3.327	10.1	20.4
10 18	22 54.60	— 1 51.7	2.387	3.208	11.7	19.2	10 18	22 52.65	—14 51.3	2.557	3.323	12.5	20.6
111981	2002 <i>GW</i> ₉₃	9 10.9 96°22		1°4/12.5 18 R		</							

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
294630	2008 <i>AL</i> ₄₄		9 10.9 272°80	0°3/10.7	18		121742	1999 <i>XX</i> ₂₀₃		9 10.9 309°23	4°8/14.9	17	
8 9	23 42.21	- 2 54.1	1.499	2.380	15.3	21.4	8 9	23 41.50	+ 8 16.5	2.013	2.837	14.2	19.5
8 19	23 37.14	- 3 24.1	1.416	2.362	11.3	21.1	8 19	23 36.19	+ 8 57.5	1.916	2.816	11.4	19.3
8 29	23 29.61	- 4 8.6	1.355	2.343	6.6	20.8	8 29	23 28.89	+ 9 23.5	1.840	2.794	8.4	19.0
9 8	23 20.34	- 5 2.4	1.318	2.324	1.5	20.4	9 8	23 20.19	+ 9 34.1	1.789	2.773	5.6	18.8
9 18	23 10.42	- 5 58.6	1.307	2.305	3.9	20.6	9 18	23 10.89	+ 9 29.9	1.766	2.752	5.0	18.8
9 28	23 1.16	- 6 49.0	1.323	2.286	9.1	20.8	9 28	23 2.00	+ 9 14.2	1.769	2.731	7.3	18.9
10 8	22 53.77	- 7 26.8	1.362	2.266	13.9	21.0	10 8	22 54.48	+ 8 52.0	1.799	2.711	10.6	19.0
10 18	22 49.06	- 7 47.9	1.421	2.246	18.0	21.3	10 18	22 49.05	+ 8 28.6	1.851	2.691	13.8	19.2
479065	2013 <i>AY</i> ₇₈		9 10.9 297°65	4°5/ 6.1	18		323286	2003 <i>TB</i> ₉		9 10.9 339°89	6°5/ 7.3	17	
8 9	23 37.01	-11 37.3	1.699	2.599	12.7	20.7	8 9	23 42.07	-15 57.5	1.020	1.940	17.5	19.3
8 19	23 33.16	-13 16.2	1.616	2.573	9.3	20.4	8 19	23 37.74	-16 33.8	0.963	1.927	13.0	19.0
8 29	23 27.21	-15 4.4	1.557	2.547	5.9	20.2	8 29	23 30.20	-17 9.7	0.925	1.915	8.6	18.7
9 8	23 19.78	-16 52.6	1.525	2.520	4.6	20.0	9 8	23 20.51	-17 34.5	0.908	1.904	6.5	18.6
9 18	23 11.76	-18 30.6	1.520	2.494	7.3	20.1	9 18	23 10.25	-17 38.7	0.913	1.895	9.2	18.7
9 28	23 4.27	-19 49.1	1.540	2.468	11.1	20.3	9 28	23 1.26	-17 16.5	0.939	1.887	14.0	18.9
10 8	22 58.34	-20 42.4	1.583	2.441	14.9	20.5	10 8	22 54.99	-16 27.4	0.984	1.880	18.7	19.2
10 18	22 54.72	-21 8.7	1.645	2.415	18.2	20.6	10 18	22 52.23	-15 14.9	1.046	1.875	22.7	19.4
120750	1997 <i>WX</i> ₁₉		9 10.9 78°48	9°5/ 1.4	18		515930	2015 <i>QR</i> ₁₃		9 10.9 161°18	4°8/ 4.5	18	
8 9	23 42.03	-26 23.6	1.593	2.489	13.7	19.3	8 9	23 37.86	-19 34.1	2.588	3.476	9.4	20.8
8 19	23 36.69	-28 12.3	1.561	2.498	11.2	19.1	8 19	23 32.96	-20 42.0	2.535	3.479	7.1	20.6
8 29	23 29.08	-29 49.4	1.553	2.507	9.7	19.1	8 29	23 26.69	-21 47.2	2.508	3.481	5.2	20.5
9 8	23 20.16	-31 4.2	1.569	2.515	10.0	19.1	9 8	23 19.61	-22 44.1	2.509	3.484	4.9	20.5
9 18	23 11.08	-31 49.5	1.608	2.524	11.8	19.3	9 18	23 12.36	-23 28.0	2.538	3.486	6.4	20.6
9 28	23 3.08	-32 1.9	1.670	2.533	14.2	19.4	9 28	23 5.65	-23 55.5	2.594	3.488	8.6	20.8
10 8	22 57.12	-31 43.2	1.752	2.541	16.7	19.6	10 8	23 0.10	-24 5.3	2.674	3.490	10.8	20.9
10 18	22 53.75	-30 57.8	1.850	2.550	18.8	19.8	10 18	22 56.14	-23 57.9	2.774	3.492	12.8	21.1
398441	2011 <i>UD</i> ₃₉		9 10.9 28°18	0°7/11.6	18		254599	2005 <i>GG</i> ₁₀₁		9 10.9 248°01	0°3/10.7	17	
8 9	23 41.05	- 1 35.9	1.785	2.655	13.7	20.5	8 9	23 42.40	- 2 31.9	1.635	2.510	14.5	22.1
8 19	23 35.72	- 1 41.8	1.718	2.657	10.2	20.3	8 19	23 37.08	- 3 9.2	1.553	2.496	10.7	21.8
8 29	23 28.47	- 1 59.0	1.675	2.660	6.1	20.0	8 29	23 29.48	- 4 0.7	1.493	2.481	6.3	21.5
9 8	23 20.03	- 2 23.9	1.658	2.663	1.8	19.7	9 8	23 20.33	- 5 1.0	1.460	2.466	1.4	21.2
9 18	23 11.31	- 2 52.1	1.667	2.666	3.0	19.8	9 18	23 10.62	- 6 3.4	1.453	2.450	3.7	21.3
9 28	23 3.34	- 3 18.3	1.704	2.669	7.2	20.1	9 28	23 1.56	- 7 0.1	1.473	2.434	8.6	21.6
10 8	22 56.98	- 3 38.0	1.766	2.673	11.1	20.4	10 8	22 54.24	- 7 44.5	1.518	2.418	13.0	21.8
10 18	22 52.81	- 3 47.9	1.850	2.677	14.4	20.6	10 18	22 49.41	- 8 12.6	1.584	2.401	16.8	22.0
22974	1999 <i>VN</i> ₂₁		9 10.9 307°39	3°7/ 7.9	18		454529	2014 <i>OQ</i> ₂₇₆		9 10.9 272°74	4°8/ 5.7	18	
8 9	23 40.51	-11 31.3	1.577	2.475	13.7	17.9	8 9	23 40.29	-18 48.6	2.318	3.205	10.3	20.8
8 19	23 35.74	-12 16.0	1.503	2.458	10.0	17.7	8 19	23 34.88	-19 33.8	2.253	3.198	7.7	20.6
8 29	23 28.69	-13 5.9	1.452	2.442	6.0	17.4	8 29	23 27.88	-20 16.6	2.214	3.191	5.5	20.5
9 8	23 20.12	-13 53.9	1.425	2.425	3.7	17.2	9 8	23 19.91	-20 51.3	2.201	3.184	4.8	20.4
9 18	23 11.06	-14 32.3	1.424	2.409	6.1	17.4	9 18	23 11.70	-21 13.2	2.217	3.177	6.4	20.5
9 28	23 2.72	-14 55.0	1.449	2.394	10.3	17.6	9 28	23 4.10	-21 19.0	2.259	3.169	9.0	20.7
10 8	22 56.17	-14 58.3	1.497	2.379	14.3	17.8	10 8	22 57.83	-21 7.6	2.326	3.162	11.6	20.8
10 18	22 52.14	-14 41.6	1.564	2.364	17.8	18.0	10 18	22 53.38	-20 39.8	2.413	3.155	13.9	21.0
171275	2006 <i>FE</i> ₄		9 10.9 61°07	2°5/ 9.4	17		356510	2011 <i>SO</i> ₅₂		9 10.9 344°85	0°3/11.3	18	
8 9	23 46.16	- 8 23.0	1.156	2.056	17.4	19.8	8 9	23 37.85	- 1 20.8	1.645	2.523	14.3	20.9
8 19	23 39.94	- 8 52.8	1.117	2.073	12.5	19.6	8 19	23 33.60	- 1 51.2	1.575	2.519	10.5	20.7
8 29	23 31.03	- 9 30.2	1.099	2.091	7.1	19.3	8 29	23 27.34	- 2 35.6	1.528	2.516	6.2	20.4
9 8	23 20.61	-10 7.2	1.105	2.110	2.7	19.1	9 8	23 19.81	- 3 29.2	1.506	2.512	1.6	20.1
9 18	23 10.14	-10 35.9	1.135	2.128	5.6	19.4	9 18	23 11.93	- 4 25.6	1.511	2.509	3.2	20.2
9 28	23 1.12	-10 50.1	1.189	2.147	10.6	19.7	9 28	23 4.75	- 5 17.8	1.541	2.507	7.8	20.5
10 8	22 54.65	-10 46.9	1.265	2.165	15.0	20.0	10 8	22 59.21	- 5 59.6	1.596	2.505	11.9	20.7
10 18	22 51.27	-10 26.3	1.360	2.184	18.7	20.3	10 18	22 55.92	- 6 27.1	1.673	2.503	15.5	21.0
187357	2005 <i>UW</i> ₂₃₈		9 10.9 27°36	2°5/13.9	18		156172	2001 <i>TG</i> ₁₅₉		9 10.9 294°54	0°2/11.2	18	R
8 9	23 35.91	+ 6 22.7	2.055	2.896	13.3	20.2	8 9	23 39.59	- 1 26.8	1.517	2.398	15.1	21.1
8 19	23 31.83	+ 5 49.7	1.981	2.898	10.3	20.1	8 19	23 35.19	- 1 57.3	1.435	2.380	11.3	20.9
8 29	23 26.16	+ 4 59.1	1.930	2.900	6.8	19.9	8 29	23 28.47	- 2 43.8	1.374	2.361	6.7	20.6
9 8	23 19.50	+ 3 54.1	1.905	2.902	3.5	19.7	9 8	23 20.13	- 3 41.4	1.337	2.343	1.7	20.2
9 18	23 12.58	+ 2 39.7	1.907	2.905	3.0	19.6	9 18	23 11.18	- 4 43.2	1.326	2.325	3.6	20.3
9 28	23 6.22	+ 1 22.5	1.938	2.907	6.1	19.8	9 28	23 2.88	- 5 41.1	1.341	2.307	8.7	20.5
10 8	23 1.17	+ 0 9.3	1.995	2.910	9.6	20.0	10 8	22 56.34	- 6 27.7	1.380	2.289	13.4	20.8
10 18	22 57.92	- 0 54.5	2.075	2.912	12.6	20.3	10 18	22 52.36	- 6 58.1	1.439	2.272	17.4	21.0
13245	1998 <i>MM</i> ₁₉		9 10.9 177°92	7°7/18.8	17	R	141902	2002 <i>PB</i> ₆₇		9 10.9 21°96	5°7/14.8	18	
8 9	23 39.18	+20 12.0	1.246	2.048	22.4	17.9	8 9	23 41.75	+ 7 32.2	1.174	2.036	19.8	19.7
8 19	23 35.21	+19 16.1	1.172	2.049	18.8	17.7	8 19	23 37.03	+ 8 10.0	1.117	2.041	15.7	19.4
8 29	23 28.55	+17 33.7	1.115	2.050	14.5	17.4	8 29	23 29.58	+ 8 23.0	1.079	2.047	11.1	19.2
9 8	23 20.11	+15 5.3	1.078	2.050	10.2	17.2	9 8	23 20.37	+ 8 11.3	1.063	2.054	7.0	19.0
9 18	23 11.15	+11 59.4	1.066	2.051	7.7	17.0	9 18	23 10.73	+ 7 38.9	1.069	2.061	6.0	19.0
9 28	23 3.18	+ 8 33.1	1.079	2.050	9.6	17.2	9 28	23 2.20	+ 6 53.5	1.098	2.070	9.4	19.2
10 8	22 57.45	+ 5 7.8	1.118	2.049	13.8	17.4	10 8	22 56.02	+ 6 4.9	1.150	2.079	13.7	19.5
10 18	22 54.73	+ 2 1.8	1.181	2.048	18.1	17.7	10 18	22 52.90	+ 5 21.7	1.222	2.088	17.7	19.8
93767	2000 <i>WM</i> ₂₁		9 10.9 254°31	0°4/11.5	18		34						

EPHEMERIDES

9 10.9

9 11.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
183866	2004 <i>CP</i> ₁₇		9 10.9 184°19	0°8/11.7	17		407887	2012 <i>BW</i> ₁₁₀		9 11.0 28°64	2°3/13.2	18	
8 9	23 42.27	+ 0 12.1	1.864	2.724	13.7	21.4	8 9	23 40.75	+ 2 43.7	2.097	2.944	12.9	20.9
8 19	23 36.61	- 0 19.3	1.791	2.724	10.2	21.2	8 19	23 35.31	+ 2 56.3	2.025	2.947	9.8	20.7
8 29	23 29.03	- 1 4.7	1.742	2.724	6.1	21.0	8 29	23 28.19	+ 2 56.7	1.976	2.950	6.4	20.5
9 8	23 20.22	- 1 59.8	1.719	2.724	1.9	20.7	9 8	23 20.03	+ 2 46.7	1.954	2.953	3.1	20.3
9 18	23 11.08	- 2 58.9	1.724	2.723	2.9	20.8	9 18	23 11.59	+ 2 29.0	1.959	2.956	3.0	20.3
9 28	23 2.63	- 3 55.4	1.757	2.721	7.2	21.0	9 28	23 3.77	+ 2 7.9	1.993	2.960	6.2	20.5
10 8	22 55.75	- 4 43.5	1.816	2.718	11.1	21.3	10 8	22 57.32	+ 1 47.6	2.053	2.963	9.6	20.8
10 18	22 51.04	- 5 19.0	1.898	2.715	14.4	21.5	10 18	22 52.79	+ 1 32.0	2.136	2.967	12.6	21.0
252114	2000 <i>WQ</i> ₃₇		9 10.9 280°87	4°9/ 6.9	18		477570	2010 <i>GK</i> ₁₆₀		9 11.0 103°45	0°1/10.9	16	
8 9	23 41.19	-12 14.3	1.386	2.290	14.8	20.3	8 9	23 45.23	- 4 6.0	2.010	2.874	12.7	21.2
8 19	23 36.53	-13 32.4	1.317	2.275	10.8	20.1	8 19	23 38.44	- 4 11.3	1.955	2.892	9.2	21.0
8 29	23 29.30	-14 57.8	1.270	2.260	6.8	19.8	8 29	23 29.92	- 4 24.4	1.924	2.910	5.3	20.8
9 8	23 20.33	-16 20.2	1.248	2.245	5.0	19.7	9 8	23 20.41	- 4 41.6	1.921	2.927	1.2	20.5
9 18	23 10.78	-17 29.1	1.250	2.229	7.8	19.8	9 18	23 10.80	- 4 59.1	1.947	2.944	2.9	20.7
9 28	23 2.05	-18 15.8	1.277	2.214	12.1	20.0	9 28	23 2.01	- 5 12.9	2.001	2.961	6.8	21.0
10 8	22 55.37	-18 35.9	1.326	2.199	16.3	20.2	10 8	22 54.83	- 5 19.7	2.082	2.977	10.2	21.2
10 18	22 51.53	-18 29.3	1.392	2.184	20.0	20.4	10 18	22 49.73	- 5 17.6	2.187	2.993	13.1	21.4
385609	2005 <i>GS</i> ₃₄		9 10.9 153°07	3°8/ 6.5	18		18648	1998 <i>FW</i> ₉		9 11.0 71°12	4°0/14.9	18	
8 9	23 39.77	-13 46.7	2.263	3.150	10.6	20.6	8 9	23 39.29	+10 25.6	1.351	2.195	18.7	19.2
8 19	23 34.47	-14 57.8	2.208	3.157	7.6	20.5	8 19	23 34.78	+ 9 29.6	1.301	2.216	14.6	19.0
8 29	23 27.63	-16 10.5	2.179	3.163	4.9	20.3	8 29	23 28.04	+ 8 3.9	1.271	2.237	10.0	18.8
9 8	23 19.87	-17 18.3	2.177	3.169	3.8	20.2	9 8	23 19.99	+ 6 14.2	1.264	2.258	5.5	18.6
9 18	23 11.93	-18 15.4	2.204	3.175	5.6	20.4	9 18	23 11.79	+ 4 10.3	1.282	2.279	4.3	18.6
9 28	23 4.62	-18 57.3	2.259	3.180	8.4	20.6	9 28	23 4.64	+ 2 4.7	1.327	2.300	7.9	18.9
10 8	22 58.62	-19 21.6	2.339	3.185	11.2	20.8	10 8	22 59.51	+ 0 9.5	1.397	2.320	12.2	19.2
10 18	22 54.42	-19 28.1	2.440	3.189	13.5	20.9	10 18	22 56.94	- 1 26.9	1.489	2.341	15.9	19.5
8677	Charlier		9 10.9 351°33	3°0/ 7.7	18		232218	2002 <i>HZ</i> ₁₄		9 11.0 82°17	0°5/10.6	16	
8 9	23 35.77	- 9 0.4	1.822	2.717	12.3	17.3	8 9	23 40.75	- 2 43.9	1.717	2.593	13.9	21.2
8 19	23 31.93	-10 18.0	1.759	2.715	8.8	17.1	8 19	23 35.43	- 3 30.6	1.668	2.612	10.1	21.0
8 29	23 26.31	-11 43.1	1.721	2.712	5.1	16.9	8 29	23 28.26	- 4 28.8	1.643	2.631	5.8	20.8
9 8	23 19.59	-13 8.2	1.709	2.710	3.0	16.7	9 8	23 20.04	- 5 32.5	1.643	2.650	1.3	20.6
9 18	23 12.58	-14 25.4	1.725	2.709	5.4	16.9	9 18	23 11.69	- 6 34.9	1.671	2.669	3.4	20.8
9 28	23 6.22	-15 27.8	1.766	2.708	9.0	17.1	9 28	23 4.22	- 7 29.4	1.727	2.687	7.6	21.1
10 8	23 1.31	-16 10.9	1.832	2.707	12.4	17.3	10 8	22 58.43	- 8 10.9	1.807	2.705	11.4	21.3
10 18	22 58.42	-16 33.2	1.919	2.707	15.4	17.5	10 18	22 54.82	- 8 37.0	1.910	2.724	14.5	21.6
329228	2012 <i>EM</i> ₃		9 10.9 136°64	0°5/11.4	17		310546	2001 <i>DE</i> ₁₀₉		9 11.0 220°27	1°2/ 9.9	17	
8 9	23 42.70	- 0 14.1	1.652	2.519	14.8	21.7	8 9	23 45.01	- 8 43.8	2.588	3.452	10.2	20.6
8 19	23 37.01	- 0 56.0	1.592	2.530	10.9	21.5	8 19	23 38.13	- 8 42.1	2.507	3.446	7.4	20.4
8 29	23 29.27	- 1 52.9	1.555	2.539	6.5	21.3	8 29	23 29.73	- 8 43.1	2.454	3.440	4.3	20.2
9 8	23 20.27	- 2 59.3	1.543	2.549	1.7	21.0	9 8	23 20.39	- 8 43.9	2.429	3.434	1.3	20.0
9 18	23 11.03	- 4 8.2	1.559	2.557	3.2	21.1	9 18	23 10.81	- 8 41.8	2.434	3.427	3.0	20.1
9 28	23 2.66	- 4 11.8	1.602	2.566	7.8	21.4	9 28	23 1.76	- 8 34.3	2.470	3.421	6.3	20.3
10 8	22 56.06	- 6 4.0	1.671	2.573	11.9	21.7	10 8	22 53.95	- 8 19.5	2.534	3.414	9.2	20.5
10 18	22 51.84	- 6 40.9	1.761	2.580	15.3	21.9	10 18	22 47.87	- 7 56.6	2.623	3.406	11.8	20.7
82293	2001 <i>KJ</i> ₃₈		9 11.0 96°52	0°4/10.7	17		126442	2002 <i>CJ</i> ₁₅		9 11.0 53°57	3°8/ 6.5	18	
8 9	23 42.20	- 2 24.9	1.533	2.411	15.1	19.9	8 9	23 36.67	-12 7.6	1.975	2.870	11.5	19.6
8 19	23 36.69	- 3 11.5	1.482	2.426	11.0	19.7	8 19	23 32.42	-13 32.2	1.922	2.876	8.2	19.4
8 29	23 29.08	- 4 11.5	1.453	2.441	6.3	19.4	8 29	23 26.53	-15 0.4	1.895	2.883	5.1	19.2
9 8	23 20.22	- 5 18.3	1.449	2.456	1.4	19.1	9 8	23 19.64	-16 24.6	1.894	2.889	3.9	19.2
9 18	23 11.19	- 6 24.2	1.473	2.470	3.7	19.4	9 18	23 12.56	-17 37.6	1.922	2.896	5.9	19.3
9 28	23 3.13	- 7 21.6	1.523	2.484	8.3	19.7	9 28	23 6.14	-18 33.5	1.975	2.903	9.1	19.5
10 8	22 56.97	- 8 4.9	1.597	2.498	12.4	19.9	10 8	23 1.12	-19 9.5	2.053	2.910	12.1	19.7
10 18	22 53.25	- 8 31.1	1.693	2.512	15.8	20.2	10 18	22 57.99	-19 24.8	2.152	2.917	14.6	19.9
99158	2001 <i>FA</i> ₁₃₂		9 11.0 123°76	3°3/15.2	18		213258	2001 <i>FT</i> ₃₂		9 11.0 279°03	2°7/13.7	17	
8 9	23 37.80	+ 8 55.3	2.638	3.451	11.5	20.1	8 9	23 35.64	+12 32.3	1.037	1.897	22.1	19.6
8 19	23 32.87	+ 8 49.4	2.566	3.461	9.1	20.0	8 19	23 33.01	+10 14.0	0.962	1.890	17.3	19.3
8 29	23 26.65	+ 8 29.2	2.517	3.471	6.4	19.8	8 29	23 27.50	+ 7 0.7	0.906	1.882	11.4	19.0
9 8	23 19.65	+ 7 56.2	2.494	3.480	4.0	19.7	9 8	23 19.97	+ 3 0.5	0.873	1.874	5.0	18.6
9 18	23 12.47	+ 7 13.4	2.500	3.490	3.4	19.6	9 18	23 11.75	- 1 25.9	0.866	1.867	4.1	18.5
9 28	23 5.76	+ 6 24.8	2.535	3.499	5.3	19.8	9 28	23 4.49	- 5 49.2	0.886	1.859	10.7	18.9
10 8	23 0.13	+ 5 35.1	2.597	3.508	7.8	20.0	10 8	22 59.62	- 9 41.9	0.930	1.852	16.9	19.2
10 18	22 56.00	+ 4 48.6	2.685	3.516	10.3	20.1	10 18	22 57.99	-12 47.7	0.995	1.844	22.2	19.5
399076	2014 <i>DC</i> ₅		9 11.0 207°79	1°4/ 9.7	18		436131	2009 <i>UG</i> ₁₁		9 11.0 275°53	2°8/ 5.4	16	
8 9	23 41.85	- 6 50.0	1.930	2.809	12.5	21.0	8 9	23 32.95	-19 3.3	4.382	5.263	6.0	22.0
8 19	23 36.25	- 7 18.6	1.861	2.807	9.0	20.8	8 19	23 29.00	-19 35.1	4.317	5.259	4.5	21.9
8 29	23 28.79	- 7 54.3	1.815	2.804	5.2	20.6	8 29	23 24.28	-20 5.1	4.280	5.255	3.2	21.8
9 8	23 20.17	- 8 32.3	1.796	2.802	1.6	20.3	9 8	23 19.10	-20 30.9	4.271	5.251	2.9	21.8
9 18	23 11.25	- 9 7.1	1.805	2.799	3.8	20.5	9 18	23 13.83	-20 50.1	4.292	5.246	3.8	21.8
9 28	23 3.02	- 9 33.9	1.842	2.796	7.7	20.7	9 28	23 8.83	-21 1.0	4.341	5.242	5.3	21.9
10 8	22 56.31	- 9 48.9	1.904	2.792	11.4	20.9	10 8	23 4.45	-21 2.6	4.416	5.238	6.8	22.0
10 18	22 51.70	- 9 50.5	1.988	2.789	14.5	21.1	10 18	23 0.97	-20 54.6	4.515	5.234	8.1	22.1
100799	1998 <i>FX</i> ₇₉		9 11.0 242°45	2°3/ 9.0	18		282574	2005 <i>AB</i> ₄₁					