

EPHEMERIDES

9 14.9

9 15.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
306894	2001 <i>TW</i> ₁₂₁		9 14.9 331°21	9°0/24.1 18			290084	2005 <i>QV</i> ₉₃		9 14.9 34°01	4°6/11.2 18		
8 9	23 52.39	+21 18.7	1.803	2.542	18.7	19.9	8 9	23 55.00	-9 23.9	1.339	2.219	16.8	20.1
8 19	23 49.43	+22 5.9	1.713	2.532	16.4	19.7	8 19	23 51.63	-10 37.2	1.285	2.225	12.7	19.8
8 29	23 44.21	+22 27.6	1.638	2.522	13.8	19.5	8 29	23 45.65	-11 59.8	1.251	2.231	8.3	19.6
9 8	23 37.25	+22 20.3	1.584	2.513	11.2	19.3	9 8	23 37.81	-13 22.1	1.240	2.237	4.9	19.4
9 18	23 29.35	+21 43.2	1.552	2.504	9.3	19.2	9 18	23 29.23	-14 33.7	1.254	2.244	5.8	19.5
9 28	23 21.60	+20 39.3	1.544	2.496	9.1	19.1	9 28	23 21.21	-15 25.8	1.293	2.252	9.8	19.8
10 8	23 15.08	+19 16.1	1.560	2.489	10.8	19.2	10 8	23 14.92	-15 53.3	1.354	2.259	13.9	20.0
10 18	23 10.62	+17 43.1	1.600	2.482	13.4	19.4	10 18	23 11.10	-15 55.4	1.436	2.267	17.5	20.3
267017	Yangzhifa		9 14.9 342°30	2°2/16.4 18			481626	2007 <i>UV</i> ₉₇		9 14.9 59°02	1°3/16.3 18		
8 9	23 48.60	+2 15.9	1.005	1.886	21.0	19.9	8 9	23 54.32	+3 20.9	1.786	2.616	15.5	20.8
8 19	23 47.68	+2 27.7	0.933	1.869	16.7	19.6	8 19	23 50.52	+2 58.6	1.716	2.623	12.1	20.6
8 29	23 43.66	+2 16.6	0.877	1.854	11.6	19.3	8 29	23 44.66	+2 19.6	1.666	2.630	8.2	20.4
9 8	23 37.18	+1 44.5	0.841	1.840	5.8	18.9	9 8	23 37.35	+1 27.4	1.640	2.637	4.0	20.1
9 18	23 29.37	+0 57.1	0.824	1.828	2.4	18.7	9 18	23 29.42	+0 27.0	1.641	2.645	1.5	20.0
9 28	23 21.87	+0 4.0	0.830	1.818	7.8	18.9	9 28	23 21.86	-0 34.6	1.670	2.652	5.4	20.3
10 8	23 16.26	-0 43.7	0.856	1.810	13.7	19.2	10 8	23 15.57	-1 30.7	1.724	2.660	9.4	20.5
10 18	23 13.65	-1 17.2	0.900	1.803	19.0	19.5	10 18	23 11.21	-2 15.9	1.803	2.667	13.0	20.8
313314	2002 <i>EM</i> ₄₃		9 14.9 211°73	0°5/15.7 18			353776	2012 <i>HU</i> ₆₁		9 14.9 238°82	0°2/15.3 18		
8 9	23 51.71	+3 39.2	2.740	3.548	11.3	21.3	8 9	23 51.82	+1 4.4	2.750	3.569	11.0	21.8
8 19	23 47.90	+2 37.5	2.644	3.542	8.8	21.2	8 19	23 48.02	+0 23.0	2.652	3.557	8.5	21.7
8 29	23 42.68	+1 22.0	2.573	3.535	5.9	21.0	8 29	23 42.79	-0 29.7	2.578	3.544	5.6	21.5
9 8	23 36.45	-0 4.1	2.530	3.528	2.7	20.7	9 8	23 36.53	-1 30.8	2.531	3.531	2.4	21.2
9 18	23 29.74	-1 36.0	2.516	3.520	0.9	20.6	9 18	23 29.77	-2 36.2	2.514	3.517	0.9	21.1
9 28	23 23.18	-3 7.8	2.533	3.512	4.2	20.8	9 28	23 23.12	-3 41.2	2.526	3.503	4.2	21.3
10 8	23 17.38	-4 33.9	2.580	3.503	7.3	21.0	10 8	23 17.22	-4 40.9	2.567	3.489	7.4	21.5
10 18	23 12.84	-5 49.4	2.654	3.494	10.1	21.2	10 18	23 12.58	-5 31.4	2.634	3.475	10.1	21.7
364485	2007 <i>DY</i> ₇₄		9 14.9 113°06	0°2/14.7 18			439029	2011 <i>EZ</i> ₇₆		9 15.0 266°79	1°1/14.1 18		
8 9	23 53.64	-1 11.8	2.477	3.306	11.7	21.9	8 9	0 0.12	-3 53.2	1.746	2.589	15.2	21.6
8 19	23 49.38	-1 43.4	2.406	3.317	9.0	21.7	8 19	23 55.39	-4 13.8	1.647	2.566	11.8	21.3
8 29	23 43.61	-2 24.5	2.359	3.328	5.8	21.5	8 29	23 48.17	-4 46.0	1.569	2.543	7.7	21.1
9 8	23 36.82	-3 11.8	2.338	3.339	2.4	21.3	9 8	23 38.98	-5 25.7	1.517	2.519	3.2	20.7
9 18	23 29.62	-4 1.1	2.346	3.349	1.2	21.2	9 18	23 28.68	-6 7.4	1.492	2.494	2.2	20.6
9 28	23 22.70	-4 47.6	2.384	3.360	4.6	21.5	9 28	23 18.46	-6 44.2	1.494	2.469	7.0	20.8
10 8	23 16.70	-5 27.3	2.449	3.370	7.7	21.7	10 8	23 9.52	-7 10.4	1.522	2.443	11.6	21.1
10 18	23 12.14	-5 57.1	2.540	3.380	10.5	21.9	10 18	23 2.78	-7 22.1	1.573	2.417	15.6	21.3
258780	2002 <i>JF</i> ₈₇		9 14.9 47°70	3°7/12.6 17			329007	2010 <i>XO</i> ₆₂		9 15.0 226°68	6°3/5.7 18		
8 9	0 0.72	-9 13.6	1.181	2.059	18.7	20.0	8 9	23 55.02	-24 51.0	2.854	3.705	9.7	21.1
8 19	23 56.15	-9 45.0	1.134	2.073	14.2	19.8	8 19	23 50.46	-26 2.4	2.787	3.695	8.0	20.9
8 29	23 48.59	-10 24.0	1.107	2.087	9.2	19.5	8 29	23 44.36	-27 9.7	2.745	3.685	6.6	20.8
9 8	23 39.00	-11 2.5	1.102	2.102	4.6	19.3	9 8	23 37.18	-28 7.1	2.729	3.675	6.3	20.8
9 18	23 28.72	-11 32.3	1.121	2.117	4.8	19.4	9 18	23 29.51	-28 49.7	2.741	3.664	7.2	20.8
9 28	23 19.29	-11 46.2	1.164	2.133	9.3	19.7	9 28	23 22.06	-29 13.9	2.780	3.653	8.8	20.9
10 8	23 11.98	-11 41.0	1.230	2.149	13.9	20.0	10 8	23 15.49	-29 18.3	2.842	3.642	10.7	21.0
10 18	23 7.55	-11 16.5	1.316	2.166	17.7	20.3	10 18	23 10.34	-29 3.5	2.926	3.630	12.4	21.2
3801	Thrasymedes		9 14.9 303°68	3°5/23.3 18			291849	Orchestralondon		9 15.0 337°62	4°6/10.7 18		
8 9	23 45.91	+19 28.6	4.564	5.261	8.6	18.6	8 9	23 49.81	-9 30.8	1.406	2.292	15.8	19.8
8 19	23 42.99	+19 13.2	4.462	5.260	7.4	18.5	8 19	23 47.76	-10 45.4	1.334	2.277	12.0	19.5
8 29	23 39.25	+18 45.9	4.381	5.258	6.0	18.4	8 29	23 43.25	-12 11.3	1.282	2.264	8.0	19.3
9 8	23 34.96	+18 7.0	4.325	5.257	4.6	18.3	9 8	23 36.89	-13 39.3	1.254	2.251	4.8	19.1
9 18	23 30.42	+17 17.6	4.297	5.255	3.6	18.2	9 18	23 29.62	-14 59.0	1.250	2.239	6.0	19.1
9 28	23 25.98	+16 19.9	4.298	5.254	3.6	18.2	9 28	23 22.65	-16 0.6	1.270	2.228	10.0	19.3
10 8	23 21.99	+15 16.8	4.328	5.252	4.6	18.3	10 8	23 17.15	-16 37.3	1.313	2.219	14.2	19.5
10 18	23 18.73	+14 11.4	4.386	5.251	5.9	18.4	10 18	23 13.95	-16 47.1	1.375	2.210	17.9	19.7
273955	2007 <i>JD</i> ₄₅		9 14.9 58°93	0°3/14.8 16			68282	2001 <i>FR</i> ₁₄		9 15.0 263°00	0°9/16.1 18		
8 9	23 55.69	-0 23.0	1.515	2.366	16.8	20.9	8 9	23 51.31	+3 16.4	2.356	3.175	12.5	19.5
8 19	23 51.77	-1 0.1	1.459	2.381	12.8	20.7	8 19	23 47.83	+2 39.6	2.269	3.171	9.8	19.3
8 29	23 45.53	-1 52.9	1.422	2.396	8.3	20.4	8 29	23 42.76	+1 48.8	2.204	3.167	6.6	19.1
9 8	23 37.70	-2 55.9	1.410	2.412	3.4	20.2	9 8	23 36.55	+0 47.0	2.165	3.162	3.1	18.9
9 18	23 29.26	-4 1.9	1.424	2.428	1.6	20.1	9 18	23 29.80	-0 21.3	2.154	3.158	1.1	18.7
9 28	23 21.37	-5 2.8	1.464	2.443	6.5	20.5	9 28	23 23.25	-1 30.6	2.172	3.153	4.5	19.0
10 8	23 15.03	-5 51.7	1.530	2.459	10.8	20.8	10 8	23 17.59	-2 35.1	2.218	3.149	7.9	19.2
10 18	23 10.91	-6 24.5	1.618	2.476	14.5	21.0	10 18	23 13.37	-3 30.1	2.290	3.144	11.0	19.4
208862	2002 <i>SM</i> ₃₈		9 14.9 330°06	1°6/13.7 18			467165	2016 <i>ER</i> ₁₀₆		9 15.0 62°52	8°2/9.4 17		
8 9	23 57.00	-5 38.4	1.782	2.635	14.5	20.4	8 9	0 3.16	-17 2.2	1.131	2.016	18.9	20.0
8 19	23 52.63	-5 58.5	1.707	2.632	11.1	20.2	8 19	23 57.89	-18 34.8	1.107	2.045	14.5	19.8
8 29	23 46.08	-6 27.5	1.653	2.629	7.2	19.9	8 29	23 49.55	-20 4.2	1.103	2.075	10.4	19.7
9 8	23 37.96	-7 0.8	1.625	2.626	3.0	19.7	9 8	23 39.33	-21 17.5	1.122	2.104	8.3	19.6
9 18	23 29.13	-7 32.9	1.623	2.624	2.5	19.6	9 18	23 28.72	-22 4.6	1.163	2.134	9.5	19.8
9 28	23 20.63	-7 58.2	1.648	2.621	6.6	19.9	9 28	23 19.28	-22 20.0	1.229	2.164	12.7	20.1
10 8	23 13.46	-8 12.3	1.699	2.619	10.6	20.1	10 8	23 12.21	-22 4.5	1.315	2.193	16.1	20.4
10 18	23 8.33	-8 12.7	1.773	2.617	14.1	20.3	10 18	23 8.12	-21 22.4	1.419	2.222	19.1	20.7
257412	2009 <i>UY</i> ₂		9 14.9 302°44	0°8/13.4 18			386776	2010 <i>DQ</i> ₆		9 15.0 237°40	0°6/15.6 18		
8 9	23 46.20	-4 29.9	4.0										

EPHEMERIDES

9 15.0

9 15.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
356255	2009 <i>UP</i> ₁₂₀		9 15.0 273°37	0°1/14.9	16		506905	2008 <i>CQ</i> ₁₆₉		9 15.0 58°79	5°7/10.7	17	
8 9	23 46.61	- 1 38.1	4.414	5.234	7.1	21.6	8 9	23 59.30	-12 17.6	1.255	2.136	17.6	20.4
8 19	23 43.51	- 2 1.2	4.324	5.231	5.4	21.5	8 19	23 54.85	-13 31.2	1.218	2.157	13.3	20.2
8 29	23 39.60	- 2 29.5	4.260	5.227	3.5	21.4	8 29	23 47.63	-14 49.0	1.201	2.179	9.0	20.0
9 8	23 35.14	- 3 1.2	4.223	5.224	1.5	21.2	9 8	23 38.60	-16 0.3	1.207	2.200	5.9	19.9
9 18	23 30.43	- 3 34.3	4.217	5.220	0.7	21.1	9 18	23 29.03	-16 55.2	1.237	2.222	6.9	20.0
9 28	23 25.82	- 4 6.5	4.240	5.217	2.8	21.3	9 28	23 20.33	-17 26.6	1.292	2.244	10.5	20.3
10 8	23 21.65	- 4 35.6	4.293	5.213	4.7	21.5	10 8	23 13.63	-17 32.3	1.370	2.267	14.4	20.6
10 18	23 18.20	- 4 59.7	4.373	5.209	6.5	21.6	10 18	23 9.59	-17 13.4	1.467	2.289	17.7	20.9
151752	2003 <i>DZ</i> ₂₃		9 15.0 42°53	3°3/11.6	18		286383	2001 <i>XH</i> ₂₆₁		9 15.0 349°64	3°7/18.8	18	
8 9	23 54.22	- 9 37.7	1.895	2.758	13.4	20.0	8 9	23 50.53	+ 9 47.4	1.712	2.524	16.8	20.3
8 19	23 50.32	-10 31.4	1.832	2.764	10.1	19.8	8 19	23 47.87	+ 9 35.2	1.630	2.520	13.7	20.1
8 29	23 44.47	-11 31.1	1.793	2.770	6.6	19.6	8 29	23 43.11	+ 9 0.3	1.568	2.516	10.1	19.8
9 8	23 37.27	-12 30.5	1.778	2.776	3.7	19.4	9 8	23 36.79	+ 8 4.1	1.527	2.512	6.2	19.6
9 18	23 29.52	-13 23.1	1.791	2.782	4.3	19.5	9 18	23 29.73	+ 6 50.8	1.512	2.509	3.7	19.4
9 28	23 22.15	-14 2.9	1.831	2.788	7.5	19.7	9 28	23 22.93	+ 5 27.5	1.524	2.507	5.7	19.6
10 8	23 16.02	-14 26.1	1.896	2.795	10.9	19.9	10 8	23 17.35	+ 4 3.3	1.561	2.506	9.5	19.8
10 18	23 11.74	-14 31.3	1.983	2.801	13.8	20.1	10 18	23 13.72	+ 2 46.1	1.622	2.505	13.2	20.0
38241	1999 <i>PU</i> ₁		9 15.0 315°08	0°7/15.6	18		508073	2015 <i>DO</i> ₁₉		9 15.0 197°80	4°0/11.2	17	
8 9	23 56.71	- 0 26.9	2.080	2.909	13.6	18.6	8 9	23 56.30	- 8 41.2	1.601	2.468	15.2	22.0
8 19	23 52.15	- 0 24.2	1.995	2.905	10.6	18.4	8 19	23 52.37	- 9 58.8	1.533	2.467	11.5	21.8
8 29	23 45.67	- 0 32.0	1.933	2.900	7.1	18.2	8 29	23 46.06	-11 26.5	1.488	2.466	7.5	21.6
9 8	23 37.80	- 0 47.7	1.897	2.896	3.2	17.9	9 8	23 38.03	-12 55.7	1.467	2.464	4.3	21.4
9 18	23 29.28	- 1 8.2	1.888	2.892	1.2	17.8	9 18	23 29.22	-14 17.1	1.473	2.463	5.2	21.4
9 28	23 21.00	- 1 29.1	1.908	2.888	5.1	18.0	9 28	23 20.79	-15 22.0	1.505	2.461	9.0	21.6
10 8	23 13.83	- 1 46.2	1.954	2.884	8.8	18.3	10 8	23 13.83	-16 4.6	1.561	2.459	12.9	21.9
10 18	23 8.42	- 1 56.1	2.026	2.880	12.2	18.5	10 18	23 9.10	-16 23.2	1.639	2.456	16.3	22.1
9421	Violilla		9 15.0 265°19	2°8/12.6	18		2735	Ellen		9 15.0 312°58	5°5/15.9	18	R
8 9	23 57.57	- 7 5.5	1.623	2.484	15.3	18.9	8 9	0 22.50	- 1 35.0	0.967	1.809	24.6	16.7
8 19	23 53.45	- 7 51.5	1.541	2.470	11.8	18.6	8 19	0 14.74	+ 0 48.1	0.891	1.803	20.0	16.3
8 29	23 46.87	- 8 48.1	1.479	2.457	7.6	18.3	8 29	0 2.05	+ 3 10.9	0.834	1.797	14.3	16.0
9 8	23 38.41	- 9 49.1	1.443	2.443	3.6	18.1	9 8	23 45.21	+ 5 27.9	0.799	1.791	8.2	15.7
9 18	23 29.00	-10 46.7	1.433	2.429	3.9	18.1	9 18	23 26.07	+ 7 30.6	0.788	1.786	5.8	15.5
9 28	23 19.85	-11 33.0	1.449	2.415	8.1	18.3	9 28	23 7.40	+ 9 12.7	0.804	1.781	10.6	15.8
10 8	23 12.10	-12 2.3	1.490	2.401	12.4	18.5	10 8	22 51.86	+10 33.8	0.843	1.777	16.7	16.1
10 18	23 6.63	-12 11.7	1.552	2.387	16.3	18.7	10 18	22 41.08	+11 38.8	0.902	1.772	22.1	16.4
435582	2008 <i>RZ</i> ₁₂₁		9 15.0 287°86	1°1/17.3	17		263765	2008 <i>KQ</i> ₁₄		9 15.0 36°30	10°0/3.7	18	
8 9	23 45.60	+ 5 37.0	4.421	5.211	7.6	21.2	8 9	23 54.68	-28 17.8	1.791	2.660	13.7	19.5
8 19	23 42.77	+ 5 4.5	4.325	5.208	6.0	21.0	8 19	23 50.90	-30 4.0	1.762	2.674	11.6	19.4
8 29	23 39.13	+ 4 23.9	4.254	5.205	4.2	20.9	8 29	23 44.91	-31 39.0	1.755	2.688	10.2	19.3
9 8	23 34.95	+ 3 36.5	4.211	5.201	2.2	20.8	9 8	23 37.46	-32 53.4	1.773	2.703	10.1	19.4
9 18	23 30.52	+ 2 44.7	4.197	5.198	1.1	20.7	9 18	23 29.51	-33 40.1	1.814	2.719	11.3	19.5
9 28	23 26.19	+ 1 50.8	4.213	5.194	2.5	20.8	9 28	23 22.16	-33 55.6	1.877	2.735	13.1	19.6
10 8	23 22.28	+ 0 57.9	4.260	5.191	4.4	20.9	10 8	23 16.32	-33 40.8	1.961	2.751	15.1	19.8
10 18	23 19.09	+ 0 8.4	4.334	5.188	6.2	21.0	10 18	23 12.60	-32 59.2	2.062	2.768	16.9	20.0
482286	2011 <i>SU</i> ₂₅₆		9 15.0 4°11	0°2/14.8	18		287027	2002 <i>QF</i> ₉₄		9 15.0 175°47	6°5/24.3	18	
8 9	23 52.46	- 0 4.5	1.723	2.570	15.2	21.4	8 9	23 53.23	+22 26.3	2.770	3.461	13.8	20.3
8 19	23 49.23	- 0 43.5	1.649	2.570	11.7	21.2	8 19	23 49.20	+22 48.7	2.676	3.462	12.0	20.2
8 29	23 43.91	- 1 37.9	1.597	2.570	7.7	20.9	8 29	23 43.62	+22 52.2	2.601	3.463	10.1	20.0
9 8	23 37.09	- 2 43.0	1.570	2.571	3.2	20.6	9 8	23 36.93	+22 35.3	2.549	3.463	8.2	19.9
9 18	23 29.60	- 3 52.4	1.568	2.572	1.5	20.5	9 18	23 29.71	+21 58.6	2.522	3.464	6.8	19.8
9 28	23 22.42	- 4 58.4	1.594	2.573	6.0	20.8	9 28	23 22.64	+21 4.6	2.522	3.464	6.6	19.8
10 8	23 16.51	- 5 54.1	1.645	2.575	10.2	21.1	10 8	23 16.41	+19 58.0	2.548	3.464	7.7	19.9
10 18	23 12.55	- 6 34.9	1.719	2.577	13.9	21.3	10 18	23 11.56	+18 44.7	2.601	3.464	9.5	20.0
285395	1999 <i>TE</i> ₂₅₄		9 15.0 32°30	1°9/16.6	18		80319	1999 <i>XE</i> ₈₁		9 15.0 253°23	2°6/17.3	18	
8 9	23 54.47	+ 3 43.6	1.460	2.301	17.7	20.5	8 9	23 56.16	+ 6 7.8	1.641	2.462	17.0	20.2
8 19	23 51.04	+ 3 33.5	1.397	2.310	14.0	20.2	8 19	23 52.37	+ 5 55.7	1.553	2.452	13.7	20.0
8 29	23 45.19	+ 3 4.1	1.353	2.319	9.5	20.0	8 29	23 46.17	+ 5 23.0	1.485	2.443	9.7	19.7
9 8	23 37.64	+ 2 18.8	1.333	2.329	4.8	19.8	9 8	23 38.15	+ 4 31.5	1.441	2.433	5.3	19.5
9 18	23 29.38	+ 1 23.0	1.337	2.340	2.0	19.6	9 18	23 29.18	+ 3 25.7	1.422	2.423	2.6	19.3
9 28	23 21.59	+ 0 24.7	1.367	2.351	6.1	19.9	9 28	23 20.42	+ 2 13.0	1.430	2.413	6.0	19.5
10 8	23 15.36	- 0 28.2	1.421	2.362	10.5	20.2	10 8	23 13.01	+ 1 2.2	1.463	2.402	10.4	19.7
10 18	23 11.40	- 1 9.7	1.499	2.374	14.5	20.5	10 18	23 7.80	+ 0 0.8	1.520	2.392	14.6	19.9
404601	2013 <i>WT</i> ₁₀₈		9 15.0 307°49	2°5/12.9	18		368987	2007 <i>EN</i> ₁₅₃		9 15.0 38°66	2°4/12.4	18	
8 9	23 52.18	- 3 54.9	1.364	2.237	17.0	20.4	8 9	23 52.22	- 6 38.0	1.926	2.785	13.3	20.5
8 19	23 49.82	- 4 56.4	1.277	2.214	13.1	20.1	8 19	23 48.74	- 7 34.5	1.866	2.796	10.0	20.3
8 29	23 44.79	- 6 16.6	1.210	2.191	8.5	19.8	8 29	23 43.42	- 8 39.4	1.830	2.807	6.4	20.1
9 8	23 37.64	- 7 48.7	1.166	2.168	3.7	19.5	9 8	23 36.85	- 9 46.6	1.819	2.819	3.0	20.0
9 18	23 29.32	- 9 22.6	1.146	2.146	3.8	19.4	9 18	23 29.78	-10 49.5	1.835	2.831	3.4	20.0
9 28	23 21.13	-10 46.8	1.152	2.124	8.9	19.6	9 28	23 23.10	-11 41.9	1.878	2.843	6.7	20.2
10 8	23 14.41	-11 51.3	1.180	2.102	14.0	19.9	10 8	23 17.58	-12 19.3	1.948	2.855	10.2	20.5
10 18	23 10.19	-12 30.4	1.228	2.081	18.5	20.1	10 18	23 13.81	-12 39.5	2.040	2.868	13.1	20.7
488924	2005 <i>UZ</i> ₃₈		9 15.0 339°74	2°5/13.2	18		403416	2009 <i>SO</i> ₇₆					

EPHEMERIDES

9 15.0

9 15.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
17179	Codina		9 15.0 328°21	3°4/18.4	18		218767	2005 WX ₄₅		9 15.0 287°51	5°1/21.1	18	
8 9	23 55.16	+ 7 41.8	2.102	2.901	14.5	18.0	8 9	23 53.13	+15 4.7	2.270	3.027	14.8	20.1
8 19	23 51.03	+ 7 59.8	2.014	2.896	11.8	17.8	8 19	23 49.38	+15 15.0	2.180	3.026	12.4	19.9
8 29	23 45.00	+ 8 2.5	1.948	2.892	8.6	17.6	8 29	23 43.88	+15 5.7	2.111	3.025	9.7	19.8
9 8	23 37.57	+ 7 50.3	1.905	2.888	5.4	17.4	9 8	23 37.10	+14 36.8	2.065	3.024	7.1	19.6
9 18	23 29.46	+ 7 25.4	1.889	2.884	3.4	17.3	9 18	23 29.71	+13 49.8	2.044	3.023	5.3	19.5
9 28	23 21.55	+ 6 51.7	1.901	2.881	5.2	17.4	9 28	23 22.51	+12 48.9	2.051	3.022	5.7	19.5
10 8	23 14.70	+ 6 14.5	1.940	2.877	8.4	17.6	10 8	23 16.29	+11 40.2	2.085	3.021	8.0	19.7
10 18	23 9.57	+ 5 39.1	2.004	2.874	11.6	17.8	10 18	23 11.66	+10 30.3	2.145	3.020	10.8	19.8
4282	Endate		9 15.0 298°68	1°0/15.8	18 R		217178	2002 RF ₆₈		9 15.0 28°04	5°3/18.9	17	
8 9	23 56.51	+ 0 57.2	1.469	2.316	17.4	17.2	8 9	23 54.61	+ 8 45.4	1.061	1.907	22.6	19.5
8 19	23 52.95	+ 0 52.5	1.382	2.300	13.7	16.9	8 19	23 51.88	+ 9 14.4	1.011	1.920	18.4	19.3
8 29	23 46.74	+ 0 31.0	1.314	2.284	9.3	16.6	8 29	23 46.10	+ 9 14.9	0.977	1.934	13.5	19.1
9 8	23 38.46	- 0 4.5	1.269	2.268	4.3	16.3	9 8	23 38.14	+ 8 47.5	0.962	1.949	8.4	18.8
9 18	23 29.06	- 0 49.2	1.249	2.253	1.6	16.1	9 18	23 29.30	+ 7 56.9	0.969	1.966	5.3	18.7
9 28	23 19.83	- 1 35.7	1.255	2.237	6.7	16.3	9 28	23 21.18	+ 6 52.7	0.998	1.983	7.6	18.9
10 8	23 12.08	- 2 16.2	1.285	2.222	11.7	16.6	10 8	23 15.12	+ 5 46.3	1.050	2.002	12.1	19.2
10 18	23 6.77	- 2 44.7	1.336	2.207	16.2	16.8	10 18	23 11.95	+ 4 48.0	1.122	2.021	16.4	19.6
523259	2017 AJ ₂₃		9 15.0 224°60	3°1/19.4	18		301439	2009 DD ₇₈		9 15.0 15°75	0°3/15.3	18	
8 9	23 51.81	+11 12.1	2.779	3.548	12.1	22.1	8 9	23 56.68	- 0 59.8	1.700	2.544	15.5	20.3
8 19	23 48.04	+10 56.2	2.679	3.541	9.9	21.9	8 19	23 52.49	- 1 6.3	1.627	2.545	12.0	20.1
8 29	23 42.84	+10 24.9	2.602	3.533	7.4	21.8	8 29	23 46.07	- 1 25.4	1.576	2.547	7.9	19.9
9 8	23 36.61	+ 9 39.1	2.550	3.525	4.8	21.6	9 8	23 38.05	- 1 53.6	1.549	2.549	3.4	19.6
9 18	23 29.89	+ 8 41.2	2.526	3.517	3.1	21.5	9 18	23 29.32	- 2 26.4	1.548	2.551	1.3	19.5
9 28	23 23.30	+ 7 35.3	2.531	3.509	4.2	21.5	9 28	23 20.96	- 2 57.8	1.574	2.554	5.9	19.8
10 8	23 17.47	+ 6 26.5	2.565	3.500	6.7	21.7	10 8	23 13.96	- 3 22.6	1.625	2.557	10.2	20.0
10 18	23 12.90	+ 5 20.0	2.626	3.491	9.3	21.8	10 18	23 9.07	- 3 36.7	1.700	2.560	13.8	20.3
216883	2008 QG ₄₁		9 15.0 307°57	0°4/15.7	17		103582	2000 CQ ₄		9 15.0 345°46	6°0/10.2	18	
8 9	23 46.42	+ 0 58.5	4.155	4.967	7.7	20.2	8 9	23 44.83	- 9 14.6	0.932	1.846	19.2	18.1
8 19	23 43.45	+ 0 32.8	4.061	4.961	5.9	20.1	8 19	23 44.92	-10 39.6	0.871	1.830	14.7	17.7
8 29	23 39.62	+ 0 0.5	3.992	4.955	3.9	19.9	8 29	23 41.92	-12 21.2	0.827	1.815	9.8	17.4
9 8	23 35.20	- 0 36.8	3.951	4.949	1.8	19.8	9 8	23 36.53	-14 6.5	0.804	1.803	6.2	17.2
9 18	23 30.51	- 1 16.8	3.940	4.944	0.6	19.7	9 18	23 29.93	-15 40.0	0.801	1.792	7.9	17.2
9 28	23 25.91	- 1 57.0	3.959	4.938	2.8	19.8	9 28	23 23.76	-16 47.0	0.818	1.783	12.8	17.5
10 8	23 21.77	- 2 34.7	4.007	4.932	4.9	20.0	10 8	23 19.55	-17 18.8	0.854	1.777	17.8	17.7
10 18	23 18.40	- 3 7.7	4.082	4.927	6.8	20.1	10 18	23 18.30	-17 13.5	0.906	1.773	22.3	18.0
198509	2004 XL ₈₂		9 15.0 281°86	0°5/15.4	18		178636	2000 JE ₆		9 15.0 64°56	4°3/10.4	17	
8 9	23 56.34	+ 0 8.1	1.745	2.584	15.4	20.0	8 9	23 51.46	+ 2 46.5	1.026	1.900	21.2	18.7
8 19	23 52.34	- 0 5.4	1.658	2.572	12.0	19.8	8 19	23 49.64	- 0 57.8	0.969	1.908	15.9	18.4
8 29	23 46.08	- 0 33.2	1.591	2.561	8.0	19.5	8 29	23 44.76	- 5 23.4	0.933	1.917	9.8	18.1
9 8	23 38.10	- 1 12.1	1.549	2.549	3.6	19.2	9 8	23 37.63	-10 8.3	0.924	1.926	4.6	17.9
9 18	23 29.25	- 1 57.2	1.533	2.537	1.3	19.0	9 18	23 29.51	-14 42.9	0.943	1.935	6.8	18.0
9 28	23 20.60	- 2 42.3	1.544	2.525	6.0	19.3	9 28	23 21.98	-18 39.1	0.988	1.944	12.5	18.4
10 8	23 13.22	- 3 20.8	1.581	2.513	10.4	19.6	10 8	23 16.45	-21 40.4	1.057	1.953	17.8	18.7
10 18	23 7.91	- 3 48.0	1.642	2.501	14.3	19.8	10 18	23 13.81	-23 43.6	1.145	1.962	22.0	19.0
375233	2008 FS ₁₀₁		9 15.0 232°88	2°8/12.4	18		184252	2004 TV ₅		9 15.0 31°44	0°1/15.0	18	
8 9	23 56.91	- 6 26.6	1.651	2.510	15.2	21.6	8 9	23 53.11	- 0 37.9	1.816	2.661	14.6	20.3
8 19	23 52.85	- 7 25.3	1.574	2.504	11.6	21.4	8 19	23 49.54	- 1 3.7	1.752	2.671	11.2	20.1
8 29	23 46.41	- 8 35.6	1.520	2.497	7.5	21.1	8 29	23 44.02	- 1 42.5	1.709	2.681	7.3	19.9
9 8	23 38.23	- 9 50.6	1.490	2.490	3.6	20.9	9 8	23 37.15	- 2 29.9	1.691	2.692	3.1	19.7
9 18	23 29.21	-11 2.1	1.487	2.483	3.9	20.9	9 18	23 29.73	- 3 20.7	1.700	2.703	1.3	19.6
9 28	23 20.50	-12 1.7	1.511	2.476	8.0	21.1	9 28	23 22.69	- 4 8.6	1.736	2.715	5.6	19.9
10 8	23 13.19	-12 43.4	1.559	2.468	12.2	21.4	10 8	23 16.90	- 4 48.0	1.797	2.727	9.5	20.2
10 18	23 8.07	-13 4.2	1.630	2.460	15.8	21.6	10 18	23 12.96	- 5 15.2	1.883	2.740	12.8	20.4
265628	2005 SB ₂₀₁		9 15.0 55°54	1°5/13.9	17		220235	2002 XK ₃		9 15.0 320°09	0°9/14.3	18	
8 9	23 58.57	- 3 59.9	1.349	2.212	17.7	20.7	8 9	23 52.08	- 1 36.3	1.263	2.135	18.1	20.3
8 19	23 54.23	- 4 29.5	1.298	2.228	13.5	20.5	8 19	23 49.90	- 2 11.6	1.181	2.115	14.1	20.0
8 29	23 47.26	- 5 11.9	1.266	2.244	8.6	20.3	8 29	23 44.94	- 3 6.5	1.117	2.097	9.3	19.7
9 8	23 38.52	- 6 0.8	1.258	2.260	3.5	20.0	9 8	23 37.77	- 4 15.5	1.076	2.079	3.8	19.3
9 18	23 29.14	- 6 48.5	1.276	2.277	2.6	20.0	9 18	23 29.41	- 5 30.5	1.058	2.061	2.4	19.2
9 28	23 20.44	- 7 27.4	1.318	2.294	7.5	20.3	9 28	23 21.25	- 6 40.5	1.065	2.045	8.1	19.5
10 8	23 13.54	- 7 52.0	1.385	2.312	12.0	20.7	10 8	23 14.69	- 7 35.7	1.094	2.029	13.5	19.7
10 18	23 9.17	- 7 59.5	1.474	2.329	15.8	20.9	10 18	23 10.76	- 8 9.9	1.142	2.014	18.3	20.0
71665	2000 EB ₁₄₃		9 15.0 48°34	7°8/24.1	18		69546	1997 JO ₁₃		9 15.0 47°46	9°5/ 6.7	18	
8 9	23 57.15	+22 25.6	2.486	3.179	15.1	19.0	8 9	23 50.13	-26 42.0	1.701	2.564	14.7	18.6
8 19	23 52.44	+23 24.4	2.396	3.180	13.3	18.9	8 19	23 56.14	-27 52.8	1.656	2.569	12.1	18.5
8 29	23 45.89	+24 4.2	2.325	3.181	11.3	18.7	8 29	23 48.40	-28 54.2	1.632	2.574	10.2	18.4
9 8	23 37.96	+24 22.4	2.276	3.182	9.4	18.6	9 8	23 38.99	-29 36.8	1.631	2.579	9.5	18.3
9 18	23 29.32	+24 18.1	2.252	3.183	8.1	18.5	9 18	23 28.99	-29 53.5	1.655	2.585	10.6	18.4
9 28	23 20.82	+23 52.8	2.253	3.185	7.9	18.5	9 28	23 19.67	-29 40.8	1.703	2.590	12.7	18.6
10 8	23 13.28	+23 11.0	2.281	3.186	9.0	18.6	10 8	23 12.08	-28 59.7	1.772	2.596	15.1	18.8
10 18	23 7.37	+22 18.5	2.334	3.187	10.8	18.7	10 18	23 6.92	-27 53.9	1.860	2.602	17.4	18.9
484938	2009 SZ ₁₇₇		9 15.0 338°94	4°4/11.1	18		286692	2002 FA ₁₄		9 15.0 69°12	1°4/16.9	18	
8 9	23 59.47	-											

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9 15.0

9 15.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
239652	2008 <i>WA</i> ₉₄		9 15.0 300°73	2°4/13.4	18		257205	2008 <i>TT</i> ₆₄		9 15.0 272°86	0°1/15.3	18	
8 9	0 2.85	- 9 8.9	1.656	2.510	15.4	20.1	8 9	23 47.24	- 0 49.1	4.520	5.335	7.0	20.9
8 19	23 57.43	- 9 8.4	1.575	2.500	11.9	19.9	8 19	23 44.01	- 1 5.5	4.424	5.327	5.4	20.8
8 29	23 49.44	- 9 12.7	1.516	2.491	7.8	19.6	8 29	23 39.98	- 1 27.1	4.353	5.318	3.5	20.7
9 8	23 39.54	- 9 17.0	1.481	2.481	3.6	19.4	9 8	23 35.40	- 1 52.3	4.310	5.309	1.5	20.5
9 18	23 28.72	- 9 16.5	1.473	2.472	3.3	19.3	9 18	23 30.56	- 2 19.5	4.297	5.300	0.6	20.4
9 28	23 18.26	- 9 6.8	1.492	2.462	7.5	19.6	9 28	23 25.80	- 2 46.3	4.314	5.292	2.6	20.6
10 8	23 9.33	- 8 45.0	1.537	2.453	11.8	19.8	10 8	23 21.46	- 3 10.8	4.360	5.283	4.6	20.7
10 18	23 2.79	- 8 10.2	1.605	2.445	15.6	20.0	10 18	23 17.83	- 3 31.2	4.434	5.274	6.4	20.8
29654	Michaellaue		9 15.0 213°77	0°6/14.5	18		505977	2015 <i>FY</i> ₃₄₄		9 15.1 292°08	11°8/6.9	18	
8 9	23 57.26	- 1 29.6	1.907	2.744	14.4	19.8	8 9	0 14.97	-29 27.8	1.553	2.395	16.8	20.7
8 19	23 52.82	- 2 8.5	1.822	2.738	11.1	19.6	8 19	0 7.88	-30 29.2	1.459	2.357	14.5	20.5
8 29	23 46.26	- 3 0.8	1.760	2.732	7.2	19.3	8 29	23 57.01	-31 20.9	1.386	2.317	12.5	20.3
9 8	23 38.16	- 4 2.0	1.724	2.725	3.0	19.1	9 8	23 43.02	-31 49.4	1.335	2.277	11.8	20.1
9 18	23 29.31	- 5 6.2	1.715	2.717	1.7	19.0	9 18	23 27.28	-31 42.9	1.309	2.236	13.0	20.1
9 28	23 20.70	- 6 6.5	1.734	2.710	6.0	19.2	9 28	23 11.73	-30 54.1	1.307	2.195	15.8	20.1
10 8	23 13.28	- 6 56.6	1.780	2.701	10.1	19.5	10 8	22 58.27	-29 24.1	1.327	2.153	19.2	20.3
10 18	23 7.80	- 7 32.4	1.850	2.692	13.7	19.7	10 18	22 48.26	-27 19.6	1.366	2.110	22.5	20.4
437818	2015 <i>DB</i> ₁₁₅		9 15.0 199°85	5°2/18.3	17		459466	2013 <i>BR</i>		9 15.1 310°97	2°1/10.9	17	
8 9	0 9.22	+ 8 3.6	1.792	2.573	17.3	20.8	8 9	23 47.57	-12 23.3	4.166	5.014	7.0	21.1
8 19	0 2.32	+ 9 9.3	1.702	2.571	14.3	20.6	8 19	23 44.34	-12 59.8	4.088	5.012	5.2	21.0
8 29	23 52.69	+10 0.6	1.633	2.568	10.7	20.4	8 29	23 40.22	-13 37.9	4.037	5.009	3.5	20.9
9 8	23 40.96	+10 35.5	1.588	2.564	7.1	20.2	9 8	23 35.51	-14 14.7	4.014	5.007	2.2	20.8
9 18	23 28.13	+10 53.3	1.571	2.560	5.2	20.1	9 18	23 30.54	-14 47.7	4.021	5.004	2.6	20.8
9 28	23 15.50	+10 56.0	1.583	2.555	7.0	20.2	9 28	23 25.69	-15 14.5	4.057	5.002	4.2	20.9
10 8	23 4.36	+10 48.3	1.623	2.550	10.5	20.4	10 8	23 21.33	-15 33.3	4.120	4.999	6.0	21.0
10 18	22 55.67	+10 36.1	1.687	2.544	14.1	20.6	10 18	23 17.77	-15 42.9	4.209	4.997	7.6	21.2
469323	1999 <i>UB</i> ₂₂		9 15.0 335°45	3°5/19.1	17		505714	2015 <i>AB</i> ₁₄₉		9 15.1 247°37	1°4/13.9	17	
8 9	23 50.62	+10 34.2	1.998	2.795	15.2	21.3	8 9	23 59.32	- 3 35.0	1.601	2.451	16.0	22.5
8 19	23 47.68	+10 17.5	1.909	2.789	12.5	21.1	8 19	23 54.91	- 4 8.6	1.515	2.438	12.4	22.3
8 29	23 42.89	+ 9 40.1	1.841	2.783	9.2	20.9	8 29	23 47.94	- 4 55.7	1.450	2.425	8.1	22.0
9 8	23 36.74	+ 8 43.3	1.796	2.778	5.8	20.7	9 8	23 39.00	- 5 51.3	1.409	2.411	3.4	21.7
9 18	23 29.93	+ 7 30.7	1.778	2.773	3.6	20.5	9 18	23 29.05	- 6 48.4	1.395	2.397	2.5	21.6
9 28	23 23.33	+ 6 8.6	1.787	2.768	5.2	20.6	9 28	23 19.31	- 7 39.1	1.408	2.382	7.3	21.9
10 8	23 17.77	+ 4 44.7	1.822	2.764	8.5	20.8	10 8	23 11.01	- 8 16.8	1.446	2.367	12.0	22.1
10 18	23 13.90	+ 3 26.3	1.883	2.760	11.9	21.0	10 18	23 5.04	- 8 37.2	1.506	2.352	16.1	22.3
164262	2004 <i>TZ</i> ₃₃₂		9 15.0 325°07	3°7/17.9	18		249730	2000 <i>SC</i> ₄₅		9 15.1 49°75	14°5/3.0	17	
8 9	23 53.17	+ 8 8.3	1.235	2.075	20.5	19.7	8 9	23 47.71	+38 56.2	0.906	1.618	34.7	19.8
8 19	23 50.74	+ 7 58.5	1.160	2.068	16.6	19.4	8 19	23 47.52	+38 32.2	0.854	1.636	31.6	19.6
8 29	23 45.46	+ 7 20.4	1.101	2.061	12.0	19.1	8 29	23 43.68	+36 58.7	0.809	1.655	27.6	19.4
9 8	23 37.98	+ 6 15.4	1.063	2.055	7.0	18.8	9 8	23 37.26	+34 6.1	0.775	1.675	23.0	19.2
9 18	23 29.39	+ 4 49.3	1.048	2.049	3.7	18.6	9 18	23 29.85	+29 54.4	0.757	1.695	18.3	19.0
9 28	23 21.12	+ 3 12.5	1.057	2.043	7.0	18.8	9 28	23 23.39	+24 40.6	0.760	1.716	15.0	18.9
10 8	23 14.55	+ 1 37.8	1.090	2.038	12.1	19.1	10 8	23 19.45	+18 59.5	0.786	1.738	15.0	19.0
10 18	23 10.67	+ 0 16.0	1.144	2.034	16.9	19.3	10 18	23 18.78	+13 30.3	0.837	1.760	17.9	19.3
394607	2007 <i>VP</i> ₂₈₅		9 15.0 327°43	5°9/21.2	18		24753	1992 <i>UU</i> ₅		9 15.1 312°99	3°1/12.8	18	
8 9	23 53.04	+15 17.3	1.847	2.620	17.2	20.8	8 9	23 54.58	- 6 38.3	1.235	2.116	17.9	17.6
8 19	23 49.75	+15 28.9	1.761	2.616	14.5	20.6	8 19	23 52.05	- 7 17.6	1.150	2.090	13.8	17.3
8 29	23 44.36	+15 16.8	1.692	2.612	11.4	20.4	8 29	23 46.52	- 8 11.3	1.083	2.065	9.1	17.0
9 8	23 37.40	+14 40.3	1.646	2.608	8.2	20.2	9 8	23 38.56	- 9 12.6	1.038	2.040	4.3	16.6
9 18	23 29.66	+13 41.3	1.624	2.605	6.1	20.1	9 18	23 29.20	-10 12.0	1.017	2.016	4.5	16.5
9 28	23 22.13	+12 25.1	1.628	2.601	6.6	20.1	9 28	23 19.96	-10 59.1	1.019	1.992	9.7	16.8
10 8	23 15.80	+10 59.9	1.658	2.598	9.4	20.3	10 8	23 12.38	-11 25.6	1.043	1.969	15.1	17.0
10 18	23 11.40	+ 9 34.5	1.713	2.595	12.6	20.5	10 18	23 7.61	-11 27.4	1.086	1.947	19.9	17.2
34993	Euaimon		9 15.0 266°70	1°7/11.8	18		27719	Fast		9 15.1 268°60	1°4/13.3	18	
8 9	23 48.13	-10 41.6	4.348	5.192	6.8	19.7	8 9	23 52.19	- 5 26.1	2.592	3.434	10.9	18.6
8 19	23 44.70	-11 8.1	4.266	5.187	5.1	19.6	8 19	23 48.39	- 6 3.4	2.507	3.428	8.2	18.4
8 29	23 40.42	-11 36.6	4.210	5.183	3.3	19.4	8 29	23 43.12	- 6 47.8	2.447	3.421	5.3	18.2
9 8	23 35.57	-12 4.6	4.183	5.179	1.9	19.3	9 8	23 36.80	- 7 35.6	2.414	3.415	2.3	18.0
9 18	23 30.46	-12 29.8	4.185	5.175	2.1	19.3	9 18	23 30.00	- 8 22.6	2.410	3.409	2.1	18.0
9 28	23 25.47	-12 50.2	4.217	5.171	3.8	19.4	9 28	23 23.39	- 9 4.2	2.434	3.403	5.1	18.2
10 8	23 20.95	-13 3.9	4.277	5.166	5.6	19.6	10 8	23 17.59	- 9 36.7	2.486	3.396	8.1	18.4
10 18	23 17.19	-13 9.9	4.363	5.162	7.2	19.7	10 18	23 13.14	- 9 57.6	2.563	3.390	10.8	18.6
2807	Karl Marx		9 15.0 244°46	2°4/12.6	18		515013	2009 <i>SN</i> ₆₉		9 15.1 359°03	2°4/13.3	18	
8 9	23 57.35	- 8 31.9	2.275	3.120	12.1	17.7	8 9	23 38.59	- 3 40.0	0.749	1.674	21.4	19.6
8 19	23 52.59	- 9 5.4	2.185	3.107	9.2	17.5	8 19	23 40.42	- 4 18.7	0.700	1.664	16.4	19.3
8 29	23 45.98	- 9 44.9	2.120	3.094	6.0	17.3	8 29	23 39.10	- 5 20.2	0.667	1.658	10.5	19.0
9 8	23 38.03	-10 25.9	2.081	3.080	3.0	17.0	9 8	23 35.40	- 6 34.8	0.651	1.655	4.4	18.6
9 18	23 29.41	-11 3.3	2.070	3.066	3.2	17.0	9 18	23 30.58	- 7 49.3	0.654	1.656	4.0	18.6
9 28	23 20.97	-11 32.3	2.089	3.051	6.4	17.2	9 28	23 26.34	- 8 49.0	0.675	1.659	10.1	19.0
10 8	23 13.55	-11 49.1	2.134	3.036	9.7	17.4	10 8	23 24.13	- 9 23.1	0.714	1.667	15.9	19.3
10 18	23 7.78	-11 52.0	2.203	3.020	12.7	17.6	10 18	23 24.85	- 9 27.2	0.770	1.677	20.9	19.7
521902	2015 <i>TG</i> ₃₈₅		9 15.0 102°82	2°9/11.3	18		120861	1998 <i>QA</i> ₇₄		9 15.1 349°08	6°0/20.8	18</	

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
358839	2008 <i>FP</i> ₂₈		9 15.1 307°55	1°0/15.9	18		314609	2006 <i>BM</i> ₂₇₈		9 15.1 128°54	0°9/16.2	18	
8 9	23 57.77	+ 0 32.4	2.039	2.864	14.0	20.9	8 9	23 55.32	+ 1 36.9	2.579	3.392	11.8	20.8
8 19	23 53.04	+ 0 37.9	1.956	2.862	10.9	20.7	8 19	23 50.71	+ 1 29.8	2.500	3.399	9.2	20.7
8 29	23 46.34	+ 0 32.2	1.896	2.860	7.4	20.5	8 29	23 44.60	+ 1 12.6	2.445	3.406	6.2	20.5
9 8	23 38.22	+ 0 17.5	1.861	2.859	3.5	20.3	9 8	23 37.44	+ 0 47.5	2.416	3.413	3.0	20.3
9 18	23 29.43	- 0 3.0	1.854	2.857	1.3	20.1	9 18	23 29.83	+ 0 17.5	2.416	3.419	1.1	20.2
9 28	23 20.91	- 0 24.9	1.875	2.856	5.1	20.4	9 28	23 22.47	- 0 13.7	2.445	3.426	4.1	20.4
10 8	23 13.53	- 0 43.9	1.923	2.854	8.9	20.6	10 8	23 16.00	- 0 42.3	2.503	3.432	7.2	20.6
10 18	23 7.98	- 0 56.3	1.996	2.853	12.2	20.8	10 18	23 10.94	- 1 4.9	2.587	3.438	10.0	20.8
146325	2001 <i>MB</i> ₂₈		9 15.1 72°45	2°3/17.1	17		239151	2006 <i>KX</i>		9 15.1 60°65	9°5/6.2	18	
8 9	0 0.22	+ 5 53.2	1.469	2.292	18.6	20.0	8 9	23 59.22	- 25 17.4	1.633	2.502	14.8	19.7
8 19	23 55.20	+ 5 32.0	1.422	2.323	14.6	19.8	8 19	23 54.50	- 26 48.8	1.600	2.519	12.1	19.6
8 29	23 47.76	+ 4 49.7	1.395	2.354	10.0	19.6	8 29	23 47.35	- 28 11.2	1.589	2.535	10.1	19.5
9 8	23 38.76	+ 3 50.3	1.391	2.385	5.2	19.4	9 8	23 38.61	- 29 14.4	1.602	2.552	9.5	19.5
9 18	23 29.26	+ 2 40.4	1.413	2.415	2.3	19.3	9 18	23 29.38	- 29 50.9	1.638	2.569	10.6	19.6
9 28	23 20.50	+ 1 28.5	1.462	2.445	5.9	19.6	9 28	23 20.87	- 29 57.1	1.699	2.586	12.8	19.8
10 8	23 13.48	+ 0 23.1	1.536	2.474	10.2	20.0	10 8	23 14.09	- 29 33.8	1.780	2.603	15.1	20.0
10 18	23 8.84	- 0 30.0	1.634	2.503	13.9	20.3	10 18	23 9.66	- 28 44.7	1.880	2.620	17.3	20.2
390911	2005 <i>EB</i> ₁₁₇		9 15.1 209°50	0°1/15.1	18		228518	2001 <i>TC</i> ₂₃₃		9 15.1 344°49	3°6/12.0	18	
8 9	23 54.89	+ 0 48.8	2.529	3.347	11.8	22.1	8 9	23 50.51	- 5 54.6	1.228	2.114	17.6	19.7
8 19	23 50.52	+ 0 4.2	2.436	3.340	9.2	21.9	8 19	23 48.63	- 7 6.9	1.162	2.106	13.4	19.4
8 29	23 44.56	- 0 52.7	2.366	3.332	6.0	21.7	8 29	23 44.04	- 8 35.4	1.115	2.098	8.6	19.1
9 8	23 37.44	- 1 58.3	2.323	3.323	2.6	21.4	9 8	23 37.41	- 10 11.0	1.090	2.091	4.2	18.9
9 18	23 29.76	- 3 8.2	2.310	3.314	1.0	21.3	9 18	23 29.81	- 11 42.1	1.089	2.086	4.9	18.9
9 28	23 22.23	- 4 16.9	2.327	3.304	4.6	21.5	9 28	23 22.60	- 12 56.9	1.112	2.081	9.7	19.2
10 8	23 15.56	- 5 19.0	2.373	3.293	8.0	21.7	10 8	23 17.06	- 13 47.3	1.157	2.077	14.4	19.4
10 18	23 10.32	- 6 10.5	2.444	3.282	10.9	21.9	10 18	23 14.06	- 14 9.7	1.221	2.075	18.6	19.7
148211	2000 <i>CO</i> ₁₁₆		9 15.1 107°27	5°1/9.9	18		400640	2009 <i>EJ</i> ₂₀		9 15.1 207°54	1°2/13.6	18	
8 9	23 58.65	- 12 33.4	1.744	2.607	14.3	19.6	8 9	23 53.61	- 2 34.7	2.236	3.074	12.5	21.7
8 19	23 53.81	- 14 5.7	1.697	2.627	10.8	19.4	8 19	23 49.73	- 3 36.9	2.152	3.070	9.5	21.5
8 29	23 46.81	- 15 41.9	1.674	2.647	7.4	19.3	8 29	23 44.13	- 4 50.9	2.093	3.066	6.1	21.3
9 8	23 38.37	- 17 12.7	1.676	2.665	5.2	19.2	9 8	23 37.30	- 6 11.8	2.060	3.061	2.5	21.1
9 18	23 29.41	- 18 29.7	1.706	2.684	6.3	19.3	9 18	23 29.88	- 7 33.5	2.056	3.056	2.1	21.0
9 28	23 21.02	- 19 25.9	1.763	2.702	9.2	19.5	9 28	23 22.66	- 8 49.3	2.081	3.051	5.7	21.3
10 8	23 14.10	- 19 58.2	1.845	2.719	12.4	19.7	10 8	23 16.42	- 9 53.5	2.133	3.045	9.2	21.5
10 18	23 9.29	- 20 6.9	1.947	2.735	15.2	20.0	10 18	23 11.75	- 10 42.3	2.210	3.039	12.2	21.7
23067	Ishajain		9 15.1 155°45	0°1/15.1	18		298103	2002 <i>RP</i> ₁₂₆		9 15.1 351°62	6°4/8.5	18	
8 9	23 53.63	- 0 33.4	2.630	3.454	11.3	19.6	8 9	23 49.31	- 12 32.7	1.377	2.269	15.7	19.3
8 19	23 49.41	- 1 2.3	2.551	3.458	8.7	19.4	8 19	23 47.44	- 14 22.4	1.317	2.263	12.0	19.1
8 29	23 43.74	- 1 40.6	2.495	3.462	5.7	19.2	8 29	23 43.11	- 16 20.4	1.278	2.257	8.4	18.9
9 8	23 37.07	- 2 25.5	2.466	3.466	2.4	19.0	9 8	23 36.97	- 18 15.2	1.264	2.253	6.5	18.8
9 18	23 29.95	- 3 13.0	2.467	3.470	1.0	18.9	9 18	23 30.01	- 19 54.3	1.273	2.250	8.1	18.9
9 28	23 23.06	- 3 58.9	2.496	3.474	4.3	19.2	9 28	23 23.43	- 21 7.4	1.307	2.247	11.6	19.0
10 8	23 17.02	- 4 39.1	2.554	3.477	7.4	19.4	10 8	23 18.37	- 21 49.2	1.362	2.246	15.3	19.3
10 18	23 12.32	- 5 10.4	2.638	3.480	10.1	19.6	10 18	23 15.61	- 21 59.1	1.436	2.246	18.6	19.5
51632	2001 <i>HT</i> ₄₆		9 15.1 136°49	2°5/18.2	18		239830	1998 <i>XK</i> ₂		9 15.1 23°60	4°3/19.2	18	
8 9	23 52.37	+ 7 54.6	2.500	3.292	12.7	19.3	8 9	23 53.25	+ 10 24.4	1.644	2.451	17.6	19.6
8 19	23 48.58	+ 7 40.4	2.414	3.294	10.2	19.2	8 19	23 50.04	+ 10 26.4	1.570	2.455	14.4	19.4
8 29	23 43.27	+ 7 11.4	2.351	3.297	7.3	19.0	8 29	23 44.60	+ 10 5.6	1.516	2.460	10.7	19.2
9 8	23 36.89	+ 6 29.3	2.313	3.299	4.3	18.8	9 8	23 37.55	+ 9 22.9	1.484	2.465	6.8	19.0
9 18	23 30.02	+ 5 37.2	2.303	3.301	2.5	18.7	9 18	23 29.78	+ 8 22.2	1.477	2.471	4.3	18.9
9 28	23 23.36	+ 4 39.4	2.322	3.303	4.2	18.8	9 28	23 22.34	+ 7 10.2	1.495	2.477	6.0	19.0
10 8	23 17.56	+ 3 41.2	2.369	3.305	7.2	19.0	10 8	23 16.25	+ 5 55.7	1.540	2.484	9.6	19.2
10 18	23 13.16	+ 2 47.6	2.442	3.307	10.0	19.2	10 18	23 12.24	+ 4 46.5	1.608	2.491	13.2	19.5
72934	2002 <i>AZ</i> ₁₃₄		9 15.1 194°38	0°3/15.4	18		246741	2009 <i>BF</i> ₇₈		9 15.1 38°66	2°3/12.9	18	
8 9	23 54.22	+ 0 28.5	2.308	3.133	12.6	20.7	8 9	23 55.05	- 6 7.7	1.725	2.584	14.6	20.5
8 19	23 50.11	+ 0 1.9	2.225	3.132	9.7	20.6	8 19	23 51.22	- 6 54.6	1.659	2.588	11.1	20.3
8 29	23 44.33	- 0 36.2	2.164	3.131	6.4	20.3	8 29	23 45.26	- 7 51.2	1.615	2.592	7.1	20.0
9 8	23 37.35	- 1 22.9	2.130	3.130	2.8	20.1	9 8	23 37.79	- 8 51.6	1.596	2.597	3.2	19.8
9 18	23 29.84	- 2 13.8	2.124	3.128	1.0	20.0	9 18	23 29.69	- 9 48.7	1.603	2.601	3.3	19.8
9 28	23 22.54	- 3 3.9	2.147	3.126	4.7	20.2	9 28	23 21.97	- 10 35.7	1.637	2.606	7.2	20.1
10 8	23 16.20	- 3 48.2	2.198	3.124	8.2	20.5	10 8	23 15.59	- 11 7.5	1.697	2.611	11.0	20.3
10 18	23 11.40	- 4 23.1	2.274	3.122	11.2	20.7	10 18	23 11.22	- 11 21.8	1.779	2.616	14.4	20.6
521822	2015 <i>TK</i> ₃₂₀		9 15.1 263°98	2°6/18.4	18		424490	2008 <i>DR</i> ₃₂		9 15.1 133°49	1°5/13.7	17	
8 9	23 51.61	+ 9 27.9	2.457	3.243	13.0	21.9	8 9	23 59.37	- 3 56.2	1.714	2.561	15.3	21.9
8 19	23 48.16	+ 8 55.4	2.351	3.227	10.6	21.7	8 19	23 54.49	- 4 38.5	1.649	2.571	11.7	21.6
8 29	23 43.11	+ 8 5.0	2.268	3.211	7.7	21.5	8 29	23 47.36	- 5 32.4	1.606	2.580	7.5	21.4
9 8	23 36.87	+ 6 58.4	2.210	3.195	4.6	21.2	9 8	23 38.67	- 6 32.1	1.588	2.589	3.1	21.2
9 18	23 30.02	+ 5 39.0	2.180	3.178	2.6	21.1	9 18	23 29.33	- 7 30.8	1.597	2.598	2.5	21.2
9 28	23 23.27	+ 4 12.3	2.180	3.161	4.4	21.2	9 28	23 20.45	- 8 21.4	1.634	2.606	6.8	21.5
10 8	23 17.34	+ 2 45.0	2.207	3.144	7.6	21.4	10 8	23 13.02	- 8 58.6	1.697	2.614	10.8	21.7
10 18	23 12.82	+ 1 23.2	2.262	3.127	10.7	21.5	10 18	23 7.73	- 9 19.3	1.783	2.621	14.3	22.0
83897	2001 <i>UJ</i> ₁₄₇		9 15.1 85°32	1°3/13.7	1								

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
98199	2000 SQ ₁₁₉		9 15.1 296°27	5°4/11.3	18		418422	2008 NA ₅		9 15.1 26°55	7°3/10.5	18	
8 9	23 59.58	-12 18.3	1.320	2.198	17.1	18.9	8 9	23 59.35	-16 55.8	1.160	2.050	18.2	19.3
8 19	23 55.62	-13 6.8	1.247	2.184	13.3	18.6	8 19	23 55.29	-17 43.2	1.120	2.061	14.1	19.1
8 29	23 48.65	-14 1.8	1.193	2.171	9.0	18.4	8 29	23 48.19	-18 29.0	1.099	2.074	10.0	18.9
9 8	23 39.39	-14 54.5	1.163	2.158	5.7	18.2	9 8	23 39.07	-19 2.9	1.099	2.087	7.4	18.8
9 18	23 28.99	-15 35.1	1.157	2.145	6.6	18.2	9 18	23 29.30	-19 16.5	1.122	2.102	8.4	18.9
9 28	23 18.97	-15 55.3	1.175	2.133	10.7	18.4	9 28	23 20.43	-19 4.7	1.169	2.117	11.7	19.2
10 8	23 10.75	-15 50.9	1.215	2.120	15.2	18.6	10 8	23 13.72	-18 27.2	1.236	2.134	15.5	19.5
10 18	23 5.34	-15 21.7	1.275	2.108	19.2	18.8	10 18	23 9.87	-17 27.3	1.323	2.151	18.9	19.7
182614	2001 UT ₇₀		9 15.1 331°00	0°7/15.7	18		113258	2002 RB ₁₄₀		9 15.1 319°52	8°8/7.7	18	
8 9	23 52.41	+ 1 5.5	1.650	2.496	15.8	20.1	8 9	0 1.32	-24 35.3	1.692	2.557	14.6	19.0
8 19	23 49.48	+ 0 49.0	1.565	2.484	12.4	19.9	8 19	23 56.32	-25 32.9	1.629	2.548	12.0	18.8
8 29	23 44.32	+ 0 16.5	1.501	2.471	8.3	19.6	8 29	23 48.75	-26 23.6	1.588	2.539	9.7	18.7
9 8	23 37.49	- 0 29.0	1.460	2.460	3.8	19.3	9 8	23 39.34	-26 58.3	1.570	2.530	8.8	18.6
9 18	23 29.80	- 1 22.1	1.445	2.448	1.3	19.1	9 18	23 29.16	-27 9.6	1.577	2.522	9.9	18.6
9 28	23 22.32	- 2 15.8	1.456	2.438	6.0	19.4	9 28	23 19.49	-26 52.9	1.609	2.514	12.3	18.8
10 8	23 16.10	- 3 3.0	1.492	2.428	10.5	19.7	10 8	23 11.48	-26 8.5	1.662	2.506	15.1	18.9
10 18	23 11.93	- 3 38.2	1.550	2.419	14.4	19.9	10 18	23 5.92	-24 59.5	1.735	2.499	17.7	19.1
295509	2008 RQ ₇₃		9 15.1 2°26	1°2/16.8	16		186776	2004 DH ₃₂		9 15.1 201°72	6°9/20.6	18	
8 9	23 52.11	+ 2 17.7	3.695	4.494	8.8	20.2	8 9	0 1.21	+14 18.9	1.742	2.509	18.2	20.1
8 19	23 47.88	+ 2 29.7	3.605	4.494	6.9	20.1	8 19	23 56.28	+15 9.6	1.656	2.508	15.4	19.9
8 29	23 42.59	+ 2 34.9	3.540	4.495	4.7	19.9	8 29	23 48.83	+15 39.1	1.589	2.506	12.2	19.7
9 8	23 36.58	+ 2 34.5	3.502	4.495	2.5	19.8	9 8	23 39.45	+15 45.0	1.545	2.503	9.0	19.5
9 18	23 30.24	+ 2 29.8	3.494	4.496	1.2	19.7	9 18	23 29.07	+15 27.3	1.525	2.501	7.0	19.4
9 28	23 24.03	+ 2 22.9	3.517	4.497	3.0	19.8	9 28	23 18.90	+14 49.2	1.531	2.498	7.7	19.5
10 8	23 18.40	+ 2 16.0	3.568	4.498	5.2	20.0	10 8	23 10.12	+13 57.8	1.563	2.495	10.5	19.6
10 18	23 13.70	+ 2 11.0	3.647	4.499	7.3	20.1	10 18	23 3.63	+13 1.5	1.618	2.491	13.8	19.8
161329	2003 QO ₇₂		9 15.1 45°91	0°1/15.1	17		240177	2002 QB ₁₈		9 15.1 355°48	0°9/14.2	18	
8 9	0 5.41	- 3 34.4	1.333	2.184	18.6	19.4	8 9	23 53.30	- 1 26.5	1.778	2.626	14.8	20.2
8 19	23 59.35	- 3 9.1	1.288	2.210	14.2	19.2	8 19	23 49.91	- 2 16.3	1.703	2.626	11.3	20.0
8 29	23 50.55	- 2 54.6	1.264	2.236	9.3	19.0	8 29	23 44.45	- 3 20.5	1.651	2.625	7.3	19.7
9 8	23 39.97	- 2 47.7	1.262	2.263	3.9	18.7	9 8	23 37.51	- 4 33.9	1.623	2.625	3.0	19.5
9 18	23 28.89	- 2 44.2	1.286	2.290	1.5	18.6	9 18	23 29.90	- 5 49.5	1.622	2.624	1.9	19.4
9 28	23 18.71	- 2 39.5	1.337	2.318	6.7	19.1	9 28	23 22.59	- 6 59.7	1.648	2.624	6.3	19.7
10 8	23 10.59	- 2 29.7	1.413	2.346	11.3	19.4	10 8	23 16.50	- 7 57.6	1.701	2.624	10.3	19.9
10 18	23 5.19	- 2 12.3	1.511	2.374	15.1	19.7	10 18	23 12.33	- 8 39.0	1.776	2.625	13.9	20.1
267690	2002 VN ₈₈		9 15.1 289°87	1°7/13.6	18		59921	1999 RM ₁₆₃		9 15.1 22°82	1°9/16.9	18	
8 9	23 55.70	- 3 37.6	1.511	2.371	16.3	21.0	8 9	23 53.25	+ 4 12.3	1.810	2.637	15.4	19.2
8 19	23 52.38	- 4 20.8	1.420	2.349	12.6	20.7	8 19	23 49.79	+ 4 2.5	1.738	2.643	12.2	19.0
8 29	23 46.47	- 5 19.8	1.349	2.326	8.2	20.4	8 29	23 44.33	+ 3 36.3	1.687	2.648	8.4	18.8
9 8	23 38.50	- 6 29.0	1.301	2.303	3.5	20.0	9 8	23 37.44	+ 2 56.2	1.660	2.655	4.4	18.6
9 18	23 29.38	- 7 40.6	1.280	2.281	2.9	19.9	9 18	23 29.94	+ 2 6.7	1.659	2.662	1.9	18.5
9 28	23 20.37	- 8 45.2	1.284	2.258	7.9	20.2	9 28	23 22.76	+ 1 13.9	1.686	2.669	5.2	18.7
10 8	23 12.74	- 9 34.7	1.312	2.235	12.8	20.4	10 8	23 16.81	+ 0 24.2	1.738	2.677	9.1	18.9
10 18	23 7.48	- 10 4.1	1.361	2.213	17.2	20.6	10 18	23 12.73	- 0 16.9	1.814	2.685	12.6	19.2
412781	2014 PS ₁₀		9 15.1 156°05	1°8/12.7	18		168308	1216 T ₋₃		9 15.1 7°66	9°5/24.2	16	
8 9	23 52.17	- 5 36.6	2.445	3.290	11.3	21.2	8 9	23 44.62	+18 59.5	1.091	1.904	24.2	19.3
8 19	23 48.45	- 6 33.5	2.369	3.292	8.6	21.0	8 19	23 44.40	+19 39.9	1.032	1.906	21.0	19.1
8 29	23 43.21	- 7 38.5	2.319	3.294	5.5	20.9	8 29	23 41.42	+19 41.7	0.987	1.911	17.1	18.9
9 8	23 36.90	- 8 46.8	2.295	3.295	2.5	20.7	9 8	23 36.38	+19 1.9	0.959	1.917	13.2	18.7
9 18	23 30.13	- 9 53.1	2.300	3.297	2.6	20.7	9 18	23 30.36	+17 42.5	0.950	1.926	10.2	18.6
9 28	23 23.58	- 10 51.9	2.334	3.298	5.6	20.9	9 28	23 24.81	+15 52.5	0.962	1.936	9.8	18.6
10 8	23 17.92	- 11 39.0	2.395	3.300	8.7	21.1	10 8	23 21.02	+13 47.0	0.995	1.949	12.2	18.8
10 18	23 13.67	- 12 11.8	2.481	3.301	11.3	21.3	10 18	23 19.84	+11 41.8	1.049	1.964	15.8	19.0
140157	2001 SH ₁₆₉		9 15.1 252°19	0°4/14.7	18		97952	2000 QN ₁₂₈		9 15.1 339°71	3°8/18.1	18	
8 9	23 54.07	- 1 16.9	2.058	2.896	13.4	20.3	8 9	23 49.23	+ 8 12.5	1.091	1.945	21.6	18.1
8 19	23 50.22	- 1 51.5	1.978	2.894	10.3	20.0	8 19	23 48.05	+ 8 4.0	1.018	1.934	17.6	17.8
8 29	23 44.53	- 2 38.1	1.920	2.892	6.7	19.8	8 29	23 43.93	+ 7 24.1	0.961	1.924	12.7	17.5
9 8	23 37.51	- 3 32.7	1.888	2.889	2.8	19.6	9 8	23 37.50	+ 6 14.0	0.923	1.916	7.4	17.2
9 18	23 29.88	- 4 30.2	1.884	2.887	1.4	19.5	9 18	23 29.87	+ 4 39.9	0.907	1.908	3.8	16.9
9 28	23 22.50	- 5 24.5	1.908	2.885	5.4	19.7	9 28	23 22.55	+ 2 53.7	0.913	1.901	7.3	17.1
10 8	23 16.19	- 6 10.2	1.958	2.882	9.2	20.0	10 8	23 17.01	+ 1 10.3	0.942	1.896	12.8	17.4
10 18	23 11.57	- 6 43.4	2.033	2.880	12.5	20.2	10 18	23 14.30	- 0 18.0	0.990	1.891	17.9	17.7
4835	1989 BQ		9 15.1 251°31	2°7/8.5	18		9321	Alexkonopliv		9 15.1 292°60	2°2/12.7	18	
8 9	23 46.76	- 17 30.8	5.062	5.912	5.8	18.4	8 9	23 54.03	- 6 57.5	2.220	3.070	12.2	17.9
8 19	23 43.65	- 18 17.9	4.979	5.898	4.5	18.3	8 19	23 50.26	- 7 39.9	2.119	3.043	9.3	17.7
8 29	23 39.78	- 19 4.8	4.922	5.884	3.3	18.2	8 29	23 44.64	- 8 30.7	2.041	3.016	6.0	17.4
9 8	23 35.40	- 19 49.0	4.894	5.870	2.7	18.2	9 8	23 37.62	- 9 25.4	1.989	2.990	2.9	17.2
9 18	23 30.76	- 20 28.2	4.895	5.856	3.2	18.2	9 18	23 29.84	- 10 18.6	1.966	2.962	3.0	17.1
9 28	23 26.20	- 21 0.2	4.926	5.841	4.4	18.3	9 28	23 22.13	- 11 4.4	1.970	2.935	6.4	17.3
10 8	23 22.02	- 21 23.4	4.984	5.826	5.7	18.4	10 8	23 15.33	- 11 38.1	2.001	2.908	10.0	17.5
10 18	23 18.50	- 21 37.2	5.066	5.811	7.0	18.5	10 18	23 10.14	- 11 56.5	2.056	2.881	13.2	17.6
303636	2005 JR ₁₀₅		9 15.1 135°12	2°6/12.4	18		44933	1999 VU ₄₄		9 15.1 108°00	4°7/19.5	18	
8 9													

EPHEMERIDES

9 15.1

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
91187	1998 <i>RW</i> ₆₆		9 15.1 331°71	0°9/15.7	18		360744	2004 <i>VB</i> ₃₀		9 15.1 42°40	5°1/9.6	18	
8 9	23 59.79	- 2 2.9	1.820	2.656	15.0	17.9	8 9	23 55.81	-16 39.9	2.101	2.964	12.2	20.0
8 19	23 55.00	- 1 31.3	1.728	2.641	11.7	17.6	8 19	23 51.47	-17 33.3	2.042	2.970	9.4	19.8
8 29	23 47.90	- 1 7.9	1.659	2.627	7.9	17.4	8 29	23 45.27	-18 26.5	2.007	2.975	6.8	19.7
9 8	23 39.03	- 0 51.1	1.614	2.613	3.6	17.1	9 8	23 37.81	-19 13.1	1.997	2.981	5.2	19.6
9 18	23 29.26	- 0 38.5	1.596	2.600	1.4	16.9	9 18	23 29.87	-19 47.4	2.015	2.986	6.0	19.7
9 28	23 19.68	- 0 27.1	1.606	2.587	5.7	17.2	9 28	23 22.30	-20 5.0	2.059	2.992	8.5	19.8
10 8	23 11.35	- 0 13.5	1.643	2.576	10.0	17.4	10 8	23 15.92	-20 3.9	2.128	2.998	11.2	20.0
10 18	23 5.11	+ 0 5.3	1.703	2.565	13.8	17.6	10 18	23 11.31	-19 44.5	2.220	3.004	13.6	20.2
183816	2004 <i>BT</i> ₇₀		9 15.1 220°30	0°2/15.2	17		63384	2001 <i>HG</i> ₅₇		9 15.1 84°68	5°9/8.8	18	
8 9	23 58.98	- 0 17.9	1.726	2.562	15.7	21.0	8 9	23 55.28	-15 21.9	1.806	2.676	13.6	19.2
8 19	23 54.42	- 0 38.6	1.643	2.556	12.2	20.7	8 19	23 51.37	-16 52.4	1.752	2.684	10.4	19.0
8 29	23 47.52	- 1 13.6	1.581	2.550	8.1	20.5	8 29	23 45.35	-18 25.0	1.721	2.692	7.5	18.9
9 8	23 38.87	- 1 59.3	1.544	2.544	3.5	20.2	9 8	23 37.89	-19 50.8	1.716	2.699	5.9	18.8
9 18	23 29.36	- 2 50.3	1.533	2.537	1.4	20.0	9 18	23 29.84	-21 1.4	1.738	2.707	7.1	18.9
9 28	23 20.12	- 3 39.8	1.551	2.530	6.1	20.3	9 28	23 22.22	-21 50.4	1.786	2.714	9.8	19.1
10 8	23 12.23	- 4 21.3	1.594	2.523	10.6	20.6	10 8	23 15.93	-22 14.9	1.857	2.722	12.8	19.3
10 18	23 6.49	- 4 50.1	1.661	2.515	14.4	20.8	10 18	23 11.63	-22 15.2	1.949	2.729	15.4	19.5
395453	2011 <i>SC</i> ₂₆₅		9 15.1 354°34	1°3/16.4	18		149092	2002 <i>CH</i> ₁₄₄		9 15.1 251°45	2°3/17.5	18	
8 9	23 52.61	+ 4 4.3	1.755	2.586	15.7	21.1	8 9	23 55.80	+ 5 13.8	2.245	3.049	13.5	20.3
8 19	23 49.43	+ 3 33.1	1.676	2.584	12.3	20.9	8 19	23 51.46	+ 5 18.9	2.156	3.046	10.8	20.1
8 29	23 44.18	+ 2 43.5	1.619	2.583	8.4	20.7	8 29	23 45.32	+ 5 10.6	2.090	3.042	7.7	19.9
9 8	23 37.43	+ 1 38.8	1.585	2.582	4.1	20.4	9 8	23 37.89	+ 4 50.1	2.048	3.038	4.3	19.7
9 18	23 29.96	+ 0 24.7	1.578	2.582	1.5	20.3	9 18	23 29.82	+ 4 20.0	2.034	3.034	2.3	19.5
9 28	23 22.78	- 0 51.2	1.598	2.581	5.5	20.5	9 28	23 21.95	+ 3 44.5	2.049	3.030	4.7	19.7
10 8	23 16.83	- 2 1.1	1.644	2.581	9.7	20.8	10 8	23 15.06	+ 3 8.5	2.091	3.026	8.0	19.9
10 18	23 12.79	- 2 58.8	1.714	2.582	13.4	21.0	10 18	23 9.80	+ 2 36.5	2.159	3.022	11.2	20.1
317315	2002 <i>GE</i> ₁₈₅		9 15.1 200°59	2°9/17.7	17		389124	2008 <i>YV</i> ₁₂₇		9 15.1 294°27	1°2/14.0	18	
8 9	23 56.10	+ 7 51.2	1.557	2.374	17.9	21.4	8 9	23 54.85	- 3 9.3	1.766	2.617	14.7	21.3
8 19	23 52.43	+ 7 27.2	1.477	2.373	14.4	21.1	8 19	23 51.21	- 3 46.2	1.684	2.608	11.3	21.1
8 29	23 46.32	+ 6 39.2	1.417	2.372	10.3	20.9	8 29	23 45.40	- 4 35.8	1.624	2.599	7.3	20.9
9 8	23 38.38	+ 5 29.6	1.379	2.370	5.8	20.6	9 8	23 37.98	- 5 33.2	1.589	2.590	3.0	20.6
9 18	23 29.56	+ 4 3.8	1.367	2.368	2.9	20.4	9 18	23 29.78	- 6 32.1	1.580	2.582	2.2	20.5
9 28	23 21.05	+ 2 31.0	1.382	2.366	6.0	20.6	9 28	23 21.82	- 7 25.4	1.598	2.573	6.5	20.8
10 8	23 13.98	+ 1 1.1	1.422	2.363	10.5	20.9	10 8	23 15.10	- 8 6.9	1.642	2.565	10.7	21.0
10 18	23 9.19	- 0 17.1	1.486	2.360	14.7	21.1	10 18	23 10.37	- 8 32.7	1.709	2.556	14.4	21.2
513697	2012 <i>BN</i> ₁₄₁		9 15.1 114°90	4°1/9.5	18		479822	2014 <i>FA</i> ₅₈		9 15.1 314°42	1°2/14.0	18	
8 9	23 54.28	-15 11.7	2.641	3.496	10.3	21.9	8 9	23 57.52	- 4 41.6	1.772	2.622	14.7	21.5
8 19	23 49.89	-16 18.1	2.586	3.510	7.9	21.7	8 19	23 53.18	- 5 0.5	1.695	2.618	11.3	21.2
8 29	23 44.05	-17 25.1	2.557	3.525	5.5	21.6	8 29	23 46.64	- 5 29.1	1.640	2.614	7.3	21.0
9 8	23 37.25	-18 27.4	2.556	3.539	4.2	21.6	9 8	23 38.48	- 6 3.1	1.609	2.611	3.0	20.7
9 18	23 30.07	-19 20.0	2.583	3.553	4.9	21.6	9 18	23 29.59	- 6 37.1	1.606	2.608	2.2	20.7
9 28	23 23.21	-19 58.7	2.638	3.567	7.0	21.8	9 28	23 21.01	- 7 5.3	1.630	2.604	6.5	20.9
10 8	23 17.27	-20 21.4	2.719	3.580	9.3	22.0	10 8	23 13.75	- 7 22.9	1.679	2.601	10.6	21.2
10 18	23 12.72	-20 27.6	2.824	3.593	11.4	22.1	10 18	23 8.54	- 7 27.2	1.751	2.598	14.1	21.4
299111	2005 <i>EZ</i> ₁₃₇		9 15.1 36°27	1°1/16.2	18		516615	2007 <i>TM</i> ₃₇₀		9 15.1 313°32	1°5/14.1	18	
8 9	23 51.77	+ 4 17.9	1.576	2.415	16.8	20.3	8 9	23 59.46	- 6 25.4	1.596	2.452	15.8	20.9
8 19	23 48.88	+ 3 31.9	1.513	2.426	13.1	20.1	8 19	23 55.14	- 6 24.2	1.506	2.432	12.2	20.7
8 29	23 43.82	+ 2 25.2	1.471	2.438	8.8	19.9	8 29	23 48.21	- 6 30.6	1.436	2.412	8.0	20.4
9 8	23 37.25	+ 1 2.9	1.452	2.450	4.2	19.6	9 8	23 39.26	- 6 40.7	1.391	2.393	3.4	20.0
9 18	23 30.06	- 0 27.7	1.459	2.463	1.4	19.5	9 18	23 29.24	- 6 49.7	1.372	2.374	2.5	19.9
9 28	23 23.30	- 1 57.3	1.493	2.476	5.8	19.8	9 28	23 19.39	- 6 52.1	1.379	2.355	7.2	20.2
10 8	23 17.91	- 3 17.3	1.552	2.489	10.1	20.1	10 8	23 10.95	- 6 43.8	1.411	2.337	11.9	20.4
10 18	23 14.55	- 4 21.4	1.634	2.503	13.8	20.4	10 18	23 4.88	- 6 22.5	1.465	2.319	16.0	20.6
470592	2008 <i>KN</i> ₃₇		9 15.1 68°73	4°0/12.1	17		68059	2000 <i>YC</i> ₆₁		9 15.1 123°93	5°8/22.5	18	
8 9	0 0.59	-10 16.4	1.438	2.306	16.5	21.1	8 9	23 56.03	+18 19.1	2.602	3.322	13.9	19.4
8 19	23 55.74	-10 59.4	1.387	2.320	12.6	20.9	8 19	23 51.42	+18 47.1	2.518	3.331	11.9	19.2
8 29	23 48.31	-11 48.4	1.357	2.334	8.2	20.7	8 29	23 45.19	+18 57.2	2.454	3.341	9.7	19.1
9 8	23 39.13	-12 35.6	1.350	2.348	4.5	20.5	9 8	23 37.80	+18 48.5	2.413	3.350	7.5	19.0
9 18	23 29.32	-13 13.3	1.369	2.362	5.0	20.6	9 18	23 29.88	+18 21.7	2.399	3.359	6.0	18.9
9 28	23 20.18	-13 35.0	1.414	2.376	8.8	20.8	9 28	23 22.16	+17 39.6	2.412	3.367	6.1	18.9
10 8	23 12.83	-13 37.7	1.483	2.390	12.8	21.1	10 8	23 15.37	+16 47.1	2.453	3.376	7.6	19.0
10 18	23 7.97	-13 20.9	1.573	2.404	16.2	21.4	10 18	23 10.06	+15 49.7	2.520	3.384	9.7	19.2
391992	2008 <i>YU</i> ₃₅		9 15.1 201°19	2°6/12.4	18		285226	1997 <i>QU</i> ₂		9 15.1 5°74	1°2/15.9	18	
8 9	23 55.88	- 7 34.3	2.048	2.900	13.0	21.5	8 9	23 57.91	- 0 52.5	1.404	2.257	17.7	19.5
8 19	23 51.63	- 8 26.0	1.972	2.898	9.8	21.3	8 19	23 53.96	- 0 26.1	1.336	2.257	13.8	19.3
8 29	23 45.46	- 9 25.6	1.920	2.896	6.3	21.1	8 29	23 47.37	- 0 12.3	1.287	2.259	9.3	19.0
9 8	23 37.93	-10 27.4	1.894	2.893	3.1	20.9	9 8	23 38.85	- 0 9.1	1.262	2.261	4.3	18.8
9 18	23 29.78	-11 25.3	1.896	2.891	3.5	20.9	9 18	23 29.46	- 0 12.8	1.261	2.264	1.6	18.6
9 28	23 21.91	-12 13.1	1.926	2.888	6.8	21.1	9 28	23 20.52	- 0 18.5	1.285	2.269	6.4	18.9
10 8	23 15.17	-12 46.4	1.982	2.885	10.3	21.3	10 8	23 13.24	- 0 21.0	1.334	2.274	11.1	19.2
10 18	23 10.19	-13 2.9	2.061	2.881	13.3	21.5	10 18	23 8.45	- 0 16.3	1.405	2.280	15.3	19.5
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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
510126	2010 <i>TY</i> ₁₃₇		9 15.1 11°88	3°3/17.2	17		112340	2002 <i>NN</i> ₆		9 15.1 328°79	1°1/14.1	18	
8 9	23 52.71	+ 4 5.1	0.941	1.815	22.6	20.1	8 9	23 53.41	- 2 20.6	1.655	2.510	15.4	19.4
8 19	23 50.90	+ 4 28.9	0.888	1.818	18.1	19.9	8 19	23 50.22	- 3 3.2	1.578	2.504	11.8	19.2
8 29	23 45.80	+ 4 27.2	0.851	1.823	12.7	19.6	8 29	23 44.81	- 4 0.2	1.522	2.498	7.6	18.9
9 8	23 38.29	+ 4 2.2	0.832	1.829	6.9	19.3	9 8	23 37.77	- 5 6.4	1.490	2.492	3.1	18.7
9 18	23 29.70	+ 3 19.4	0.834	1.836	3.3	19.2	9 18	23 29.94	- 6 14.6	1.485	2.487	2.2	18.6
9 28	23 21.76	+ 2 28.7	0.858	1.846	7.6	19.4	9 28	23 22.40	- 7 17.0	1.505	2.482	6.7	18.9
10 8	23 15.98	+ 1 41.3	0.903	1.857	13.1	19.8	10 8	23 16.16	- 8 6.7	1.551	2.477	11.0	19.1
10 18	23 13.29	+ 1 5.7	0.966	1.869	18.0	20.1	10 18	23 11.96	- 8 39.3	1.620	2.473	14.8	19.3
385266	2001 <i>QB</i> ₂₉₈		9 15.1 48°16	0°0/15.8	13 C		302530	2002 <i>LC</i> ₅₈		9 15.1 5°10	20°4/18.0	18	
8 9	23 34.83	- 0 58.0	39.450	40.262	0.9	22.9	8 9	23 16.89	+52 3.7	0.950	1.581	37.8	17.5
8 19	23 34.20	- 1 1.8	39.364	40.264	0.7	22.9	8 19	23 23.98	+53 33.7	0.905	1.581	36.7	17.4
8 29	23 33.50	- 1 6.1	39.303	40.266	0.4	22.9	8 29	23 28.55	+53 58.7	0.862	1.585	35.1	17.2
9 8	23 32.75	- 1 10.8	39.270	40.268	0.2	22.9	9 8	23 31.12	+53 8.0	0.822	1.594	32.8	17.1
9 18	23 31.99	- 1 15.7	39.267	40.271	0.1	22.8	9 18	23 32.64	+50 51.7	0.787	1.608	29.8	16.9
9 28	23 31.23	- 1 20.6	39.293	40.273	0.3	22.9	9 28	23 34.52	+47 5.0	0.763	1.627	26.3	16.8
10 8	23 30.51	- 1 25.3	39.349	40.275	0.5	22.9	10 8	23 37.97	+41 56.8	0.753	1.649	22.9	16.7
10 18	23 29.85	- 1 29.8	39.432	40.277	0.8	22.9	10 18	23 43.62	+35 51.1	0.764	1.676	20.4	16.7
392811	2012 <i>TR</i> ₂₄₃		9 15.1 270°20	0°5/14.6	18		475417	2006 <i>KZ</i> ₂₃		9 15.1 68°65	7°5/8.2	18	
8 9	23 54.83	- 0 53.5	1.781	2.625	14.9	21.7	8 9	23 59.51	-21 1.5	1.745	2.613	14.1	20.8
8 19	23 51.20	- 1 33.4	1.697	2.616	11.6	21.4	8 19	23 54.71	-22 10.2	1.693	2.618	11.2	20.6
8 29	23 45.41	- 2 28.2	1.634	2.606	7.6	21.2	8 29	23 47.58	-23 15.1	1.664	2.623	8.7	20.5
9 8	23 38.01	- 3 33.5	1.595	2.596	3.1	20.9	9 8	23 38.87	-24 7.3	1.659	2.628	7.5	20.4
9 18	23 29.81	- 4 42.9	1.584	2.587	1.7	20.8	9 18	23 29.55	-24 39.7	1.679	2.634	8.6	20.5
9 28	23 21.83	- 5 48.9	1.599	2.577	6.2	21.1	9 28	23 20.78	-24 47.5	1.725	2.639	11.0	20.7
10 8	23 15.06	- 6 44.4	1.641	2.567	10.5	21.3	10 8	23 13.55	-24 30.0	1.793	2.645	13.8	20.9
10 18	23 10.27	- 7 24.7	1.706	2.557	14.2	21.5	10 18	23 8.56	-23 49.3	1.882	2.650	16.3	21.1
37855	1998 <i>EE</i> ₁₂		9 15.1 52°50	5°2/11.2	18		1972	<i>Yi Xing</i>		9 15.1 287°99	2°6/13.1	18	
8 9	23 58.69	-11 1.1	1.214	2.096	18.0	17.1	8 9	23 57.70	- 6 36.4	1.553	2.415	15.9	17.0
8 19	23 54.68	-12 7.7	1.170	2.111	13.7	16.8	8 19	23 53.85	- 7 12.2	1.466	2.396	12.2	16.8
8 29	23 47.81	-13 20.8	1.146	2.125	9.1	16.6	8 29	23 47.41	- 7 59.1	1.400	2.378	8.0	16.5
9 8	23 38.98	-14 30.2	1.144	2.140	5.5	16.5	9 8	23 38.97	- 8 51.3	1.358	2.359	3.7	16.2
9 18	23 29.48	-15 25.5	1.167	2.156	6.4	16.6	9 18	23 29.45	- 9 41.4	1.342	2.341	3.6	16.2
9 28	23 20.75	-15 58.9	1.213	2.172	10.4	16.9	9 28	23 20.12	-10 21.4	1.352	2.322	8.1	16.4
10 8	23 14.02	-16 6.9	1.282	2.188	14.5	17.2	10 8	23 12.20	-10 45.3	1.386	2.304	12.7	16.6
10 18	23 10.02	-15 50.3	1.371	2.204	18.1	17.4	10 18	23 6.65	-10 49.9	1.441	2.285	16.8	16.8
128741	2004 <i>RE</i> ₁₆₁		9 15.1 290°37	0°4/15.4	18		291774	2006 <i>KV</i> ₃₁		9 15.1 47°76	0°1/15.1	18	
8 9	23 58.67	- 1 51.8	2.192	3.020	13.1	19.8	8 9	23 56.30	- 0 34.1	1.534	2.384	16.6	21.0
8 19	23 53.69	- 1 41.7	2.103	3.012	10.2	19.6	8 19	23 52.34	- 0 57.9	1.478	2.399	12.8	20.8
8 29	23 46.81	- 1 40.0	2.037	3.004	6.8	19.3	8 29	23 46.08	- 1 36.5	1.442	2.415	8.4	20.6
9 8	23 38.55	- 1 44.5	1.997	2.996	3.0	19.1	9 8	23 38.24	- 2 24.9	1.430	2.431	3.5	20.3
9 18	23 29.60	- 1 52.4	1.985	2.988	1.1	18.9	9 18	23 29.81	- 3 16.9	1.444	2.448	1.4	20.2
9 28	23 20.87	- 2 0.1	2.002	2.981	5.0	19.2	9 28	23 21.91	- 4 5.2	1.484	2.465	6.2	20.6
10 8	23 13.19	- 2 4.0	2.046	2.973	8.6	19.4	10 8	23 15.53	- 4 43.6	1.550	2.482	10.5	20.9
10 18	23 7.24	- 2 1.6	2.116	2.966	11.9	19.6	10 18	23 11.36	- 5 8.1	1.638	2.499	14.2	21.2
259682	2003 <i>WG</i> ₁₃₄		9 15.1 305°83	3°0/17.3	18		155282	2005 <i>WC</i> ₁₈₆		9 15.1 231°27	0°5/14.4	18	
8 9	23 54.08	+ 5 33.2	1.316	2.159	19.2	20.2	8 9	23 53.10	- 1 46.7	2.541	3.371	11.4	20.6
8 19	23 51.58	+ 5 34.5	1.223	2.136	15.6	19.9	8 19	23 49.21	- 2 26.7	2.451	3.363	8.8	20.4
8 29	23 46.24	+ 5 12.5	1.149	2.112	11.1	19.6	8 29	23 43.78	- 3 16.8	2.384	3.355	5.7	20.2
9 8	23 38.57	+ 4 27.8	1.095	2.090	6.2	19.3	9 8	23 37.25	- 4 13.4	2.345	3.346	2.3	19.9
9 18	23 29.54	+ 3 24.6	1.065	2.067	3.0	19.0	9 18	23 30.19	- 5 12.2	2.335	3.338	1.4	19.8
9 28	23 20.55	+ 2 11.1	1.060	2.045	7.0	19.2	9 28	23 23.29	- 6 8.1	2.354	3.329	4.8	20.1
10 8	23 13.06	+ 0 58.2	1.077	2.024	12.4	19.4	10 8	23 17.22	- 6 56.4	2.401	3.319	8.0	20.3
10 18	23 8.21	- 0 4.3	1.115	2.003	17.4	19.7	10 18	23 12.52	- 7 33.8	2.473	3.310	10.8	20.4
280891	2005 <i>WF</i> ₁₃₇		9 15.1 205°92	1°5/13.7	16		390146	2012 <i>VR</i> ₈₅		9 15.1 272°11	8°1/7.0	18	
8 9	23 57.97	- 4 18.1	1.867	2.712	14.3	22.1	8 9	23 59.65	-22 53.2	1.872	2.735	13.5	20.9
8 19	23 53.44	- 4 55.8	1.788	2.709	10.9	21.9	8 19	23 54.96	-24 7.5	1.801	2.720	11.0	20.7
8 29	23 46.78	- 5 44.4	1.732	2.706	7.1	21.7	8 29	23 47.89	-25 18.4	1.752	2.704	8.8	20.6
9 8	23 38.56	- 6 38.9	1.701	2.702	3.0	21.4	9 8	23 39.08	-26 16.8	1.728	2.689	8.1	20.5
9 18	23 29.62	- 7 33.1	1.697	2.698	2.4	21.4	9 18	23 29.45	-26 54.9	1.729	2.673	9.2	20.5
9 28	23 20.96	- 8 20.6	1.721	2.693	6.5	21.6	9 28	23 20.13	-27 7.1	1.756	2.657	11.6	20.7
10 8	23 13.55	- 8 55.9	1.772	2.688	10.5	21.9	10 8	23 12.22	-26 51.8	1.805	2.641	14.4	20.8
10 18	23 8.12	- 9 15.9	1.846	2.683	13.9	22.1	10 18	23 6.49	-26 10.9	1.873	2.624	17.0	21.0
201798	2003 <i>WJ</i> ₁₆₁		9 15.1 142°80	4°2/10.2	18		452995	2007 <i>HZ</i> ₁₁		9 15.1 318°24	4°5/10.4	18	
8 9	23 58.00	-14 27.7	2.401	3.252	11.3	21.0	8 9	23 55.86	-14 57.0	2.164	3.025	12.0	20.7
8 19	23 52.88	-15 26.1	2.341	3.263	8.6	20.8	8 19	23 51.56	-15 41.1	2.092	3.019	9.3	20.5
8 29	23 46.08	-16 25.9	2.305	3.274	6.0	20.7	8 29	23 45.40	-16 26.6	2.043	3.014	6.4	20.3
9 8	23 38.17	-17 21.2	2.297	3.284	4.2	20.6	9 8	23 37.95	-17 7.6	2.021	3.009	4.6	20.2
9 18	23 29.81	-18 6.7	2.318	3.294	5.0	20.6	9 18	23 29.93	-17 38.7	2.025	3.004	5.3	20.3
9 28	23 21.81	-18 38.0	2.367	3.303	7.3	20.8	9 28	23 22.19	-17 55.2	2.057	2.999	7.9	20.4
10 8	23 14.88	-18 52.9	2.442	3.311	9.9	21.0	10 8	23 15.57	-17 54.9	2.114	2.994	10.8	20.6
10 18	23 9.56	-18 50.9	2.541	3.319	12.3	21.2	10 18	23 10.66	-17 37.2	2.194	2.990	13.4	20.8
195167	2002 <i>CT</i> ₂₃₅		9 15.1 301°53	0°3/15.6	16								

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
23886	Toshihamane 9 15.1 306°98 5°0/10.7 18						391656	2007 WE ₃₅ 9 15.1 260°17 1°1/14.1 18					
8 9	0 0.70	-17 27.8	2.122	2.977	12.5	18.9	8 9	23 56.79	-4 0.9	1.939	2.784	13.9	22.1
8 19	23 55.32	-17 52.0	2.044	2.966	9.7	18.7	8 19	23 52.47	-4 24.9	1.861	2.781	10.6	21.8
8 29	23 47.90	-18 14.8	1.989	2.956	7.0	18.6	8 29	23 46.12	-4 58.8	1.805	2.778	6.9	21.6
9 8	23 39.03	-18 30.4	1.961	2.945	5.1	18.4	9 8	23 38.32	-5 38.3	1.774	2.776	2.8	21.4
9 18	23 29.51	-18 34.0	1.959	2.935	5.7	18.5	9 18	23 29.85	-6 18.2	1.771	2.773	2.0	21.3
9 28	23 20.32	-18 21.9	1.986	2.925	8.3	18.6	9 28	23 21.66	-6 53.1	1.796	2.771	6.0	21.6
10 8	23 12.36	-17 52.7	2.038	2.915	11.2	18.8	10 8	23 14.66	-7 18.3	1.847	2.768	9.8	21.8
10 18	23 6.30	-17 7.3	2.113	2.906	14.0	18.9	10 18	23 9.53	-7 30.6	1.922	2.765	13.2	22.0
85431	1997 BE ₆ 9 15.1 97°20 2°6/11.9 18						403476	2009 UD ₃ 9 15.1 315°68 4°5/20.3 18					
8 9	23 53.13	-7 11.4	2.191	3.044	12.2	20.0	8 9	23 52.64	+12 52.3	2.261	3.033	14.4	20.6
8 19	23 49.36	-8 23.1	2.128	3.054	9.2	19.8	8 19	23 49.14	+12 59.8	2.168	3.027	12.0	20.4
8 29	23 43.90	-9 42.5	2.088	3.064	5.9	19.6	8 29	23 43.90	+12 49.0	2.096	3.021	9.2	20.2
9 8	23 37.31	-11 3.6	2.076	3.074	3.0	19.4	9 8	23 37.38	+12 19.9	2.047	3.015	6.4	20.0
9 18	23 30.23	-12 19.7	2.092	3.084	3.5	19.5	9 18	23 30.22	+11 34.5	2.024	3.009	4.6	19.9
9 28	23 23.47	-13 24.9	2.136	3.094	6.5	19.7	9 28	23 23.22	+10 36.9	2.029	3.004	5.3	20.0
10 8	23 17.74	-14 14.6	2.207	3.104	9.6	19.9	10 8	23 17.16	+9 33.1	2.061	2.999	7.9	20.1
10 18	23 13.58	-14 46.6	2.301	3.113	12.4	20.1	10 18	23 12.66	+8 29.3	2.118	2.994	10.8	20.3
484320	2007 TX ₁₄₄ 9 15.1 338°53 0°6/14.7 18						101180	1998 SH ₉ 9 15.1 299°73 0°7/15.8 18					
8 9	23 52.36	-2 30.4	1.319	2.190	17.6	20.3	8 9	23 53.45	+2 11.4	1.787	2.623	15.2	19.6
8 19	23 50.05	-2 42.0	1.240	2.174	13.7	20.0	8 19	23 50.16	+1 39.7	1.701	2.613	11.9	19.4
8 29	23 45.06	-3 8.5	1.180	2.158	9.0	19.7	8 29	23 44.77	+0 50.9	1.637	2.604	8.0	19.1
9 8	23 38.02	-3 45.8	1.142	2.144	3.8	19.4	9 8	23 37.80	+0 11.4	1.596	2.595	3.7	18.8
9 18	23 29.90	-4 27.4	1.128	2.131	1.9	19.2	9 18	23 30.05	-1 21.6	1.582	2.586	1.2	18.6
9 28	23 22.03	-5 5.2	1.137	2.119	7.4	19.5	9 28	23 22.51	-2 32.3	1.596	2.577	5.7	18.9
10 8	23 15.71	-5 32.0	1.170	2.109	12.5	19.8	10 8	23 16.15	-3 36.0	1.635	2.569	10.0	19.2
10 18	23 11.89	-5 42.9	1.224	2.100	17.0	20.1	10 18	23 11.71	-4 26.8	1.698	2.560	13.7	19.4
449075	2012 FX ₆₈ 9 15.1 309°74 2°4/12.1 17						9431	1996 PS ₁ 9 15.1 332°64 2°5/20.2 18 R					
8 9	23 51.16	-6 23.6	2.190	3.045	12.1	21.8	8 9	23 46.57	+12 16.4	3.989	4.743	8.9	17.6
8 19	23 47.98	-7 33.1	2.111	3.038	9.2	21.6	8 19	23 43.73	+11 53.1	3.890	4.739	7.3	17.5
8 29	23 43.10	-8 52.0	2.055	3.032	5.9	21.4	8 29	23 39.99	+11 18.4	3.813	4.735	5.5	17.3
9 8	23 37.01	-10 14.6	2.026	3.026	2.9	21.2	9 8	23 35.62	+10 33.3	3.763	4.732	3.7	17.2
9 18	23 30.34	-11 34.3	2.025	3.019	3.4	21.3	9 18	23 30.96	+9 39.8	3.741	4.728	2.5	17.1
9 28	23 23.87	-12 44.5	2.052	3.013	6.5	21.5	9 28	23 26.40	+8 40.4	3.749	4.725	3.1	17.2
10 8	23 18.35	-13 40.0	2.106	3.007	9.8	21.6	10 8	23 22.32	+7 38.7	3.786	4.722	4.7	17.3
10 18	23 14.38	-14 17.8	2.183	3.002	12.7	21.8	10 18	23 19.05	+6 38.0	3.852	4.719	6.6	17.4
237561	2000 YY ₂₅ 9 15.1 255°67 6°1/ 8.9 18						339562	2005 JF ₁₆₂ 9 15.1 318°19 1°6/11.8 17					
8 9	23 58.23	-17 4.2	1.919	2.782	13.2	20.8	8 9	23 47.26	-9 44.9	4.278	5.122	6.9	20.9
8 19	23 53.77	-18 15.7	1.841	2.768	10.3	20.6	8 19	23 44.16	-10 21.9	4.199	5.121	5.2	20.8
8 29	23 47.08	-19 28.9	1.787	2.754	7.6	20.4	8 29	23 40.21	-11 1.4	4.147	5.120	3.3	20.7
9 8	23 38.76	-20 35.8	1.759	2.739	6.1	20.3	9 8	23 35.70	-11 40.9	4.123	5.119	1.8	20.5
9 18	23 29.63	-21 28.6	1.757	2.724	7.2	20.3	9 18	23 30.93	-12 17.8	4.128	5.119	2.1	20.6
9 28	23 20.75	-22 0.9	1.782	2.708	10.0	20.5	9 28	23 26.28	-12 49.8	4.163	5.118	3.8	20.7
10 8	23 13.14	-22 9.7	1.830	2.693	13.1	20.6	10 8	23 22.08	-13 14.8	4.227	5.117	5.6	20.8
10 18	23 7.55	-21 55.0	1.900	2.677	15.9	20.8	10 18	23 18.65	-13 31.5	4.316	5.116	7.2	20.9
265248	2004 EP ₃₉ 9 15.1 243°52 1°0/16.1 18						432650	2010 XQ ₂₅ 9 15.1 322°74 3°2/ 9.1 17					
8 9	23 57.69	+2 44.9	1.819	2.643	15.5	21.8	8 9	23 48.57	-17 6.6	3.933	4.786	7.2	20.3
8 19	23 53.47	+2 19.8	1.724	2.629	12.2	21.5	8 19	23 45.25	-17 47.8	3.858	4.780	5.6	20.2
8 29	23 46.99	+1 37.5	1.650	2.614	8.3	21.3	8 29	23 40.97	-18 28.7	3.810	4.774	4.0	20.1
9 8	23 38.77	+0 40.9	1.602	2.599	4.0	21.0	9 8	23 36.03	-19 6.1	3.789	4.769	3.2	20.0
9 18	23 29.62	-0 25.0	1.580	2.583	1.4	20.7	9 18	23 30.80	-19 37.3	3.797	4.763	3.7	20.0
9 28	23 20.60	-1 33.0	1.586	2.567	5.8	21.0	9 28	23 25.70	-19 59.5	3.834	4.757	5.2	20.1
10 8	23 12.78	-2 35.6	1.619	2.550	10.2	21.2	10 8	23 21.14	-20 11.4	3.897	4.752	6.9	20.3
10 18	23 6.99	-3 26.7	1.675	2.533	14.1	21.4	10 18	23 17.44	-20 12.0	3.984	4.747	8.5	20.4
132275	2002 EV ₁₄₅ 9 15.1 154°11 0°9/16.1 17						404275	2013 EV ₈₇ 9 15.1 111°60 4°9/ 8.8 18					
8 9	23 55.17	+3 20.9	1.967	2.789	14.6	20.8	8 9	23 54.92	-16 30.6	2.426	3.284	11.0	21.5
8 19	23 51.16	+2 40.2	1.889	2.793	11.4	20.6	8 19	23 50.56	-17 47.0	2.374	3.299	8.4	21.4
8 29	23 45.23	+1 43.1	1.834	2.797	7.7	20.4	8 29	23 44.62	-19 3.5	2.347	3.312	6.1	21.2
9 8	23 37.92	+0 33.2	1.803	2.801	3.6	20.2	9 8	23 37.61	-20 13.6	2.347	3.326	4.9	21.2
9 18	23 29.99	-0 43.8	1.801	2.804	1.2	20.0	9 18	23 30.18	-21 11.8	2.376	3.340	5.8	21.3
9 28	23 22.36	-2 0.9	1.826	2.807	5.2	20.3	9 28	23 23.10	-21 53.5	2.432	3.353	7.9	21.4
10 8	23 15.87	-3 11.0	1.879	2.810	9.1	20.5	10 8	23 17.03	-22 16.5	2.513	3.365	10.3	21.6
10 18	23 11.18	-4 8.8	1.957	2.813	12.5	20.7	10 18	23 12.48	-22 20.7	2.616	3.378	12.4	21.8
254465	2005 CC ₆₉ 9 15.1 338°69 0°4/14.3 17						221774	2007 GB ₇₆ 9 15.1 125°11 0°2/15.4 18					
8 9	23 47.61	-3 35.6	4.159	4.986	7.4	20.9	8 9	23 54.11	-0 12.9	2.455	3.280	11.9	21.6
8 19	23 44.43	-3 59.1	4.073	4.985	5.6	20.8	8 19	23 49.96	-0 35.0	2.377	3.284	9.2	21.4
8 29	23 40.39	-4 27.4	4.013	4.983	3.6	20.6	8 29	23 44.26	-1 7.2	2.322	3.288	6.1	21.2
9 8	23 35.76	-4 58.4	3.981	4.982	1.5	20.5	9 8	23 37.48	-1 46.5	2.293	3.293	2.6	21.0
9 18	23 30.87	-5 29.8	3.978	4.980	0.9	20.4	9 18	23 30.23	-2 29.1	2.293	3.297	1.0	20.8
9 28	23 26.09	-5 59.4	4.006	4.979	3.1	20.6	9 28	23 23.22	-3 10.7	2.322	3.301	4.4	21.1
10 8	23 21.78	-6 24.9	4.062	4.978	5.1	20.8	10 8	23 17.11	-3 46.8	2.379	3.305	7.7	21.3
10 18	23 18.25	-6 44.4	4.145	4.977	6.9	20.9	10 18	23 12.44	-4 14.4	2.461	3.309	10.5	21.5
433928	2015 CO ₄ 9 15.1 130°07 0°6/14.7 17						269627	2011 AV 9 15.1 10°49 4°4/ 9.6 18					
8 9	0 1.26	-2 31.2	1.761	2.599	15.4	21.8	8 9	23 52.44	-13 37.2	2.226	3.091	11.6	20.3
8 19	23 55.94	-2 52.4	1.695	2.610	11.8	21.6	8 19	23 48.90	-14 50.0	2.161	3.091	8.8	20.1
8 29	23 48.38	-3 25.2	1.649	2.620	7.7	21.4	8 29	23 43.67	-16 6.0	2.120	3.092	6.1	20.0

EPHEMERIDES

9 15.1

9 15.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
36269	1999 <i>XB</i> ₂₁₄		9 15.1 265°39	2°5/ 9.6	18		213685	2002 <i>TM</i> ₁₈₀		9 15.1 98°38	13°5/29.3	17	
8 9	23 46.87	-14 38.5	4.451	5.302	6.5	19.0	8 9	23 53.82	+30 47.4	1.161	1.884	27.8	20.1
8 19	23 43.87	-15 27.8	4.375	5.298	4.9	18.8	8 19	23 51.86	+31 16.5	1.091	1.887	25.1	19.9
8 29	23 40.03	-16 18.0	4.325	5.293	3.4	18.7	8 29	23 46.61	+30 57.4	1.031	1.890	21.9	19.7
9 8	23 35.63	-17 6.2	4.303	5.288	2.5	18.7	9 8	23 38.79	+29 42.0	0.984	1.893	18.3	19.5
9 18	23 30.98	-17 49.7	4.311	5.283	3.0	18.7	9 18	23 29.70	+27 27.6	0.956	1.896	15.1	19.3
9 28	23 26.42	-18 26.0	4.348	5.279	4.4	18.8	9 28	23 21.07	+24 21.4	0.948	1.899	13.5	19.3
10 8	23 22.30	-18 53.3	4.413	5.274	6.0	18.9	10 8	23 14.54	+20 42.5	0.963	1.902	14.5	19.3
10 18	23 18.92	-19 10.7	4.503	5.269	7.5	19.0	10 18	23 11.18	+16 54.9	1.000	1.904	17.4	19.5
374035	2004 <i>FZ</i> ₁₄₂		9 15.1 162°55	3°5/12.1	17		477135	2009 <i>DM</i> ₁₀		9 15.1 303°62	0°2/14.9	16	
8 9	0 2.70	-10 59.9	1.920	2.768	13.8	21.1	8 9	23 54.59	- 0 49.0	1.648	2.496	15.7	22.1
8 19	23 56.93	-11 37.5	1.852	2.774	10.5	20.9	8 19	23 51.42	- 1 13.3	1.549	2.470	12.3	21.9
8 29	23 48.98	-12 19.4	1.806	2.779	7.0	20.7	8 29	23 45.85	- 1 53.2	1.472	2.445	8.2	21.6
9 8	23 39.52	-12 59.5	1.787	2.783	3.9	20.5	9 8	23 38.38	- 2 45.3	1.418	2.419	3.5	21.2
9 18	23 29.43	-13 32.0	1.797	2.787	4.3	20.6	9 18	23 29.84	- 3 43.8	1.390	2.393	1.5	21.0
9 28	23 19.77	-13 51.7	1.834	2.790	7.6	20.8	9 28	23 21.35	- 4 41.1	1.388	2.368	6.6	21.3
10 8	23 11.50	-13 55.6	1.897	2.793	11.0	21.0	10 8	23 14.07	- 5 29.6	1.411	2.343	11.4	21.5
10 18	23 5.30	-13 43.1	1.984	2.795	14.1	21.2	10 18	23 8.93	- 6 3.5	1.457	2.318	15.7	21.7
1192	<i>Prisma</i>		9 15.1 235°44	2°8/13.1	18 R		481816	2008 <i>UD</i> ₆₆		9 15.1 236°38	7°3/23.2	18	
8 9	0 8.76	-10 35.2	2.013	2.846	13.9	17.5	8 9	23 55.39	+20 7.1	2.043	2.772	17.0	21.5
8 19	0 1.77	-10 42.7	1.918	2.831	10.7	17.3	8 19	23 51.59	+20 27.9	1.947	2.765	14.8	21.3
8 29	23 52.32	-10 53.4	1.845	2.815	7.1	17.0	8 29	23 45.70	+20 24.5	1.869	2.757	12.1	21.1
9 8	23 41.03	-11 2.5	1.801	2.798	3.6	16.8	9 8	23 38.23	+19 55.0	1.812	2.750	9.5	20.9
9 18	23 28.79	-11 5.5	1.785	2.780	3.5	16.7	9 18	23 29.93	+18 59.8	1.780	2.742	7.6	20.8
9 28	23 16.77	-10 58.1	1.799	2.762	7.2	16.9	9 28	23 21.78	+17 42.7	1.774	2.733	7.5	20.8
10 8	23 6.09	-10 37.9	1.842	2.743	11.0	17.1	10 8	23 14.73	+16 11.3	1.794	2.725	9.5	20.9
10 18	22 57.61	-10 4.6	1.909	2.723	14.5	17.3	10 18	23 9.55	+14 34.4	1.840	2.716	12.2	21.0
416022	2002 <i>CB</i> ₂₂₂		9 15.1 216°62	2°7/12.7	17		214931	2007 <i>VT</i> ₆₁		9 15.1 101°53	5°3/11.3	18	
8 9	23 57.53	- 5 2.3	1.549	2.407	16.0	21.6	8 9	0 2.48	-13 1.7	1.404	2.274	16.8	20.1
8 19	23 53.59	- 6 10.9	1.474	2.403	12.3	21.4	8 19	23 57.43	-13 53.1	1.349	2.282	12.8	19.9
8 29	23 47.15	- 7 33.9	1.421	2.398	7.9	21.1	8 29	23 49.61	-14 48.4	1.314	2.289	8.7	19.7
9 8	23 38.86	- 9 3.7	1.392	2.393	3.6	20.9	9 8	23 39.85	-15 38.7	1.303	2.296	5.6	19.5
9 18	23 29.67	-10 31.0	1.390	2.387	3.9	20.9	9 18	23 29.34	-16 15.4	1.317	2.303	6.4	19.6
9 28	23 20.80	-11 46.1	1.414	2.381	8.2	21.1	9 28	23 19.48	-16 32.0	1.356	2.310	10.0	19.8
10 8	23 13.41	-12 41.7	1.463	2.375	12.6	21.4	10 8	23 11.48	-16 25.8	1.419	2.316	13.9	20.1
10 18	23 8.34	-13 14.4	1.534	2.368	16.5	21.6	10 18	23 6.15	-15 57.6	1.502	2.323	17.4	20.3
16791	1997 <i>AR</i> ₅		9 15.1 315°22	7°2/ 6.9	18		284528	2007 <i>RQ</i> ₁₃₈		9 15.1 46°81	0°9/15.8	18	
8 9	23 52.41	-18 9.6	1.769	2.647	13.4	17.0	8 9	23 59.16	+ 0 19.7	1.436	2.282	17.8	20.2
8 19	23 49.54	-19 48.7	1.695	2.628	10.6	16.8	8 19	23 54.63	+ 0 18.6	1.385	2.303	13.7	20.0
8 29	23 44.46	-21 30.2	1.644	2.610	8.2	16.6	8 29	23 47.62	+ 0 2.2	1.354	2.324	9.1	19.8
9 8	23 37.71	-23 4.6	1.618	2.592	7.2	16.5	9 8	23 38.96	- 0 25.7	1.347	2.346	4.1	19.6
9 18	23 30.12	-24 22.3	1.617	2.574	8.7	16.6	9 18	23 29.71	- 0 59.5	1.364	2.368	1.4	19.4
9 28	23 22.75	-25 15.4	1.641	2.556	11.4	16.7	9 28	23 21.13	- 1 32.8	1.408	2.391	6.1	19.8
10 8	23 16.62	-25 40.1	1.688	2.539	14.5	16.9	10 8	23 14.25	- 1 59.6	1.477	2.414	10.6	20.1
10 18	23 12.51	-25 36.2	1.753	2.523	17.3	17.0	10 18	23 9.75	- 2 15.5	1.568	2.437	14.4	20.4
59142	1998 <i>XD</i> ₆₂		9 15.1 332°11	2°4/17.4	18		344649	2003 <i>QW</i> ₁₀₁		9 15.1 13°65	7°4/11.0	18	
8 9	23 53.75	+ 5 47.2	1.744	2.567	16.1	19.3	8 9	0 1.37	-18 35.7	1.188	2.073	18.1	19.3
8 19	23 50.43	+ 5 36.1	1.662	2.562	12.9	19.1	8 19	23 56.95	-18 59.2	1.141	2.078	14.2	19.1
8 29	23 44.96	+ 5 6.2	1.600	2.558	9.1	18.9	8 29	23 49.42	-19 18.5	1.112	2.085	10.2	18.9
9 8	23 37.90	+ 4 19.6	1.561	2.553	5.0	18.6	9 8	23 39.78	-19 24.5	1.105	2.093	7.6	18.8
9 18	23 30.06	+ 3 20.5	1.548	2.549	2.4	18.4	9 18	23 29.41	-19 10.1	1.122	2.102	8.3	18.8
9 28	23 22.47	+ 2 15.8	1.562	2.546	5.5	18.6	9 28	23 19.91	-18 31.5	1.162	2.112	11.6	19.1
10 8	23 16.10	+ 1 13.0	1.602	2.542	9.6	18.9	10 8	23 12.59	-17 29.5	1.223	2.124	15.4	19.3
10 18	23 11.71	+ 0 18.7	1.665	2.539	13.4	19.1	10 18	23 8.23	-16 8.2	1.304	2.137	18.9	19.6
383105	2005 <i>SY</i> ₁₈₈		9 15.1 325°18	0°2/15.3	18		520484	2014 <i>KG</i> ₁₁₁		9 15.1 56°46	8°1/ 5.8	18	
8 9	23 52.69	- 0 6.2	1.271	2.137	18.4	21.2	8 9	23 55.93	-24 43.6	2.002	2.867	12.7	20.6
8 19	23 50.47	- 0 24.2	1.189	2.119	14.4	20.9	8 19	23 51.70	-26 14.6	1.967	2.884	10.3	20.5
8 29	23 45.48	- 1 1.5	1.125	2.101	9.7	20.6	8 29	23 45.51	-27 38.3	1.956	2.901	8.6	20.5
9 8	23 38.28	- 1 54.2	1.083	2.084	4.2	20.2	9 8	23 38.02	-28 46.5	1.971	2.919	8.1	20.5
9 18	23 29.88	- 2 55.4	1.064	2.068	1.6	20.0	9 18	23 30.10	-29 32.9	2.010	2.936	9.2	20.6
9 28	23 21.68	- 3 55.7	1.069	2.053	7.4	20.3	9 28	23 22.68	-29 53.8	2.074	2.954	11.1	20.7
10 8	23 15.06	- 4 45.5	1.098	2.039	12.9	20.6	10 8	23 16.61	-29 48.9	2.160	2.972	13.2	20.9
10 18	23 11.04	- 5 18.1	1.146	2.025	17.7	20.9	10 18	23 12.43	-29 20.4	2.265	2.990	15.1	21.1
509286	2006 <i>VD</i> ₃₃		9 15.1 289°37	2°1/13.5	18		451392	2011 <i>CJ</i> ₇₅		9 15.1 283°34	6°8/ 7.9	17	
8 9	23 57.03	- 4 50.4	1.461	2.324	16.6	21.9	8 9	0 3.59	-24 55.3	2.483	3.324	11.3	21.6
8 19	23 53.49	- 5 28.1	1.377	2.308	12.8	21.7	8 19	23 57.50	-25 36.2	2.392	3.295	9.3	21.4
8 29	23 47.27	- 6 19.6	1.313	2.291	8.4	21.4	8 29	23 49.37	-26 11.8	2.324	3.267	7.5	21.2
9 8	23 38.99	- 7 19.0	1.273	2.275	3.6	21.1	9 8	23 39.74	-26 35.8	2.283	3.237	6.8	21.2
9 18	23 29.61	- 8 18.5	1.258	2.259	3.2	21.0	9 18	23 29.37	-26 42.8	2.269	3.208	7.6	21.2
9 28	23 20.43	- 9 9.3	1.269	2.242	8.1	21.2	9 28	23 19.20	-26 29.1	2.283	3.178	9.6	21.2
10 8	23 12.74	- 9 44.2	1.304	2.226	12.9	21.5	10 8	23 10.13	-25 53.7	2.322	3.148	11.9	21.3
10 18	23 7.50	- 9 59.3	1.359	2.211	17.2	21.7	10 18	23 2.88	-24 58.4	2.384	3.118	14.2	21.5
214002	2004 <i>BO</i> ₁₁₀		9 15.1 225°11	4°9/ 9.6	18		66456						

EPHEMERIDES

9 15.2

9 15.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
320105	2007 <i>EY</i> ₁₃₀		9 15.2 45°46'	0°5'/14.7	18		442855	2013 <i>AH</i> ₁₃₀		9 15.2 275°04'	0°1'/15.3	18	
8 9	23 57.29	- 3 38.8	2.150	2.986	13.0	20.6	8 9	23 56.20	- 0 44.7	1.947	2.783	14.2	21.5
8 19	23 52.60	- 3 45.5	2.075	2.990	10.0	20.4	8 19	23 52.12	- 1 1.9	1.860	2.773	11.0	21.2
8 29	23 46.09	- 4 0.2	2.023	2.994	6.5	20.2	8 29	23 45.99	- 1 31.4	1.794	2.763	7.3	21.0
9 8	23 38.31	- 4 19.9	1.998	2.999	2.7	20.0	9 8	23 38.36	- 2 10.0	1.753	2.753	3.2	20.7
9 18	23 29.98	- 4 40.7	2.000	3.003	1.4	19.9	9 18	23 29.96	- 2 53.1	1.740	2.743	1.2	20.6
9 28	23 21.96	- 4 58.6	2.031	3.007	5.2	20.2	9 28	23 21.77	- 3 35.0	1.754	2.733	5.5	20.9
10 8	23 15.04	- 5 9.7	2.089	3.012	8.7	20.4	10 8	23 14.70	- 4 10.2	1.795	2.723	9.6	21.1
10 18	23 9.83	- 5 11.7	2.171	3.017	11.8	20.6	10 18	23 9.48	- 4 34.6	1.860	2.714	13.1	21.3
21694	Allisowilson		9 15.2 312°69'	1°9'/16.7	18		152537	2056 <i>T</i> ₋₁		9 15.2 165°90'	0°8'/14.2	18	
8 9	23 52.45	+ 4 10.5	1.490	2.332	17.4	18.3	8 9	23 55.60	- 3 36.2	2.485	3.317	11.6	20.6
8 19	23 50.06	+ 3 56.9	1.389	2.303	14.0	18.0	8 19	23 51.10	- 4 3.7	2.406	3.320	8.8	20.4
8 29	23 45.14	+ 3 22.0	1.308	2.274	9.8	17.7	8 29	23 45.02	- 4 39.1	2.351	3.322	5.7	20.2
9 8	23 38.16	+ 2 27.3	1.250	2.246	5.1	17.4	9 8	23 37.85	- 5 19.2	2.324	3.325	2.3	20.0
9 18	23 29.97	+ 1 17.6	1.215	2.219	2.0	17.1	9 18	23 30.19	- 5 59.7	2.325	3.327	1.6	19.9
9 28	23 21.77	+ 0 1.0	1.206	2.191	6.5	17.3	9 28	23 22.78	- 6 36.3	2.355	3.328	4.9	20.2
10 8	23 14.85	+ 1 12.4	1.222	2.165	11.6	17.5	10 8	23 16.28	- 7 5.2	2.413	3.330	8.0	20.4
10 18	23 10.24	- 2 14.0	1.259	2.139	16.4	17.7	10 18	23 11.24	- 7 23.9	2.496	3.331	10.8	20.6
191060	2002 <i>CT</i> ₁₁₁		9 15.2 245°84'	0°1'/15.1	18		479086	2013 <i>AQ</i> ₁₀₅		9 15.2 247°38'	2°7'/12.4	18	
8 9	23 47.94	- 1 53.6	4.522	5.340	7.0	20.1	8 9	23 58.10	- 9 24.1	2.227	3.074	12.2	21.9
8 19	23 44.63	- 2 10.0	4.431	5.336	5.3	20.0	8 19	23 53.34	- 9 59.7	2.138	3.060	9.4	21.7
8 29	23 40.53	- 2 31.3	4.365	5.331	3.5	19.9	8 29	23 46.68	- 10 41.0	2.073	3.046	6.1	21.5
9 8	23 35.87	- 2 55.8	4.327	5.327	1.5	19.7	9 8	23 38.63	- 11 23.1	2.034	3.032	3.2	21.3
9 18	23 30.97	- 3 21.6	4.319	5.323	0.6	19.6	9 18	23 29.89	- 12 0.7	2.023	3.017	3.5	21.3
9 28	23 26.15	- 3 46.7	4.342	5.319	2.7	19.8	9 28	23 21.32	- 12 28.8	2.041	3.001	6.6	21.4
10 8	23 21.77	- 4 8.9	4.394	5.314	4.6	19.9	10 8	23 13.78	- 12 43.8	2.086	2.986	10.0	21.6
10 18	23 18.09	- 4 26.7	4.473	5.310	6.4	20.1	10 18	23 7.94	- 12 44.0	2.154	2.969	13.0	21.8
136238	2003 <i>WX</i> ₁₄₁		9 15.2 347°56'	5°1'/11.6	18		109515	2001 <i>QC</i> ₂₃₈		9 15.2 20°30'	0°5'/15.6	17	
8 9	23 49.07	- 8 49.9	0.954	1.861	19.6	18.1	8 9	23 51.82	+ 1 27.7	1.085	1.958	20.3	18.5
8 19	23 48.28	- 9 48.3	0.893	1.848	15.0	17.8	8 19	23 49.81	+ 1 0.5	1.033	1.966	15.8	18.3
8 29	23 44.28	- 11 0.8	0.851	1.837	9.9	17.5	8 29	23 44.91	+ 0 10.6	0.999	1.976	10.5	18.0
9 8	23 37.83	- 12 16.6	0.828	1.828	5.6	17.2	9 8	23 37.97	- 0 55.9	0.986	1.987	4.6	17.8
9 18	23 30.16	- 13 22.9	0.826	1.821	6.5	17.3	9 18	23 30.19	- 2 10.0	0.996	2.000	1.6	17.6
9 28	23 22.96	- 14 7.2	0.844	1.815	11.5	17.5	9 28	23 23.03	- 3 20.6	1.029	2.013	7.3	18.0
10 8	23 17.79	- 14 22.3	0.882	1.812	16.7	17.8	10 8	23 17.76	- 4 17.6	1.084	2.028	12.6	18.4
10 18	23 15.64	- 14 6.6	0.937	1.810	21.3	18.1	10 18	23 15.17	- 4 55.2	1.159	2.044	17.1	18.7
211569	2003 <i>SF</i> ₁₃₉		9 15.2 307°72'	7°0'/9.9	18		254477	2005 <i>ET</i> ₁₁		9 15.2 141°22'	1°2'/14.3	18	
8 9	23 0 1.61	- 18 45.7	1.607	2.475	15.1	19.7	8 9	23 0 2.20	- 4 11.6	1.517	2.366	16.8	20.4
8 19	23 56.97	- 19 27.2	1.520	2.448	12.0	19.5	8 19	23 57.12	- 4 28.0	1.448	2.371	12.9	20.1
8 29	23 49.56	- 20 7.7	1.455	2.422	8.9	19.2	8 29	23 49.42	- 4 55.7	1.401	2.375	8.4	19.9
9 8	23 39.99	- 20 38.7	1.414	2.396	7.1	19.1	9 8	23 39.84	- 5 29.8	1.377	2.378	3.5	19.6
9 18	23 29.28	- 20 52.0	1.398	2.370	8.0	19.1	9 18	23 29.44	- 6 4.2	1.380	2.382	2.2	19.5
9 28	23 18.79	- 20 41.4	1.406	2.344	11.2	19.2	9 28	23 19.51	- 6 32.3	1.409	2.385	7.1	19.9
10 8	23 9.84	- 20 4.9	1.439	2.319	14.9	19.3	10 8	23 11.24	- 6 48.8	1.464	2.388	11.6	20.1
10 18	23 3.42	- 19 4.1	1.491	2.294	18.4	19.5	10 18	23 5.45	- 6 51.0	1.540	2.391	15.5	20.4
490484	2009 <i>SJ</i> ₃₅₃		9 15.2 255°03'	8°7'/5.3	17		210063	2006 <i>PL</i> ₄₃		9 15.2 61°87'	2°0'/16.9	18	
8 9	23 0 7.55	- 34 16.2	2.654	3.469	11.4	21.3	8 9	23 58.16	+ 3 26.3	1.843	2.663	15.5	20.2
8 19	23 0 30.00	- 34 59.6	2.588	3.457	10.0	21.2	8 19	23 53.59	+ 3 34.8	1.770	2.670	12.2	20.0
8 29	23 51.02	- 35 31.6	2.545	3.443	8.9	21.1	8 29	23 46.91	+ 3 28.7	1.717	2.676	8.5	19.8
9 8	23 40.37	- 35 45.5	2.527	3.430	8.7	21.1	9 8	23 38.73	+ 3 10.1	1.689	2.683	4.5	19.6
9 18	23 29.20	- 35 36.9	2.536	3.417	9.4	21.1	9 18	23 29.88	+ 2 42.1	1.688	2.690	2.1	19.4
9 28	23 18.50	- 35 3.5	2.571	3.403	10.8	21.2	9 28	23 21.38	+ 2 9.9	1.715	2.697	5.3	19.7
10 8	23 9.15	- 34 6.5	2.629	3.389	12.5	21.3	10 8	23 14.17	+ 1 39.0	1.768	2.704	9.1	19.9
10 18	23 1.79	- 32 49.0	2.709	3.375	14.1	21.4	10 18	23 8.93	+ 1 14.1	1.845	2.711	12.6	20.1
503014	2015 <i>FW</i> ₁₁₀		9 15.2 285°39'	0°8'/16.7	16		507092	2009 <i>FT</i> ₈		9 15.2 54°45'	4°2'/12.6	17	
8 9	23 47.58	+ 2 44.5	4.391	5.191	7.5	21.2	8 9	23 0 3.17	- 10 19.3	1.165	2.042	19.0	20.6
8 19	23 44.40	+ 2 31.2	4.298	5.188	5.8	21.1	8 19	23 58.20	- 10 51.7	1.122	2.059	14.4	20.4
8 29	23 40.39	+ 2 11.2	4.230	5.186	4.0	21.0	8 29	23 50.17	- 11 30.3	1.099	2.077	9.4	20.2
9 8	23 35.82	+ 1 46.0	4.189	5.183	2.0	20.8	9 8	23 40.11	- 12 6.5	1.097	2.096	5.0	20.0
9 18	23 30.99	+ 1 17.4	4.178	5.181	0.8	20.7	9 18	23 29.40	- 12 32.1	1.120	2.115	5.3	20.1
9 28	23 26.26	+ 0 47.5	4.197	5.178	2.5	20.9	9 28	23 19.62	- 12 40.4	1.167	2.134	9.6	20.4
10 8	23 21.96	+ 0 18.6	4.246	5.175	4.5	21.0	10 8	23 12.04	- 12 28.9	1.237	2.153	14.0	20.7
10 18	23 18.39	- 0 7.3	4.322	5.173	6.3	21.1	10 18	23 7.41	- 11 58.2	1.327	2.173	17.8	21.0
8157	1988 <i>XG</i> ₂		9 15.2 290°60'	4°2'/19.2	18		101572	1999 <i>BF</i>		9 15.2 269°52'	0°5'/15.5	18	
8 9	23 54.76	+ 10 14.5	1.977	2.768	15.6	17.9	8 9	23 59.25	- 0 17.6	1.724	2.560	15.7	19.4
8 19	23 51.17	+ 10 25.1	1.873	2.748	12.9	17.7	8 19	23 54.87	- 0 25.0	1.629	2.542	12.3	19.1
8 29	23 45.50	+ 10 17.0	1.789	2.727	9.7	17.5	8 29	23 48.06	- 0 46.0	1.556	2.524	8.3	18.8
9 8	23 38.21	+ 9 49.9	1.728	2.706	6.4	17.2	9 8	23 39.35	- 1 17.9	1.507	2.506	3.7	18.5
9 18	23 30.00	+ 9 5.7	1.693	2.686	4.2	17.1	9 18	23 29.61	- 1 56.1	1.484	2.488	1.3	18.3
9 28	23 21.83	+ 8 8.8	1.686	2.665	5.7	17.1	9 28	23 19.99	- 2 34.6	1.489	2.469	6.2	18.6
10 8	23 14.69	+ 7 6.1	1.704	2.644	9.2	17.3	10 8	23 11.63	- 3 6.9	1.519	2.451	10.8	18.8
10 18	23 9.38	+ 6 4.7	1.748	2.624	12.7	17.5	10 18	23 5.45	- 3 28.4	1.573	2.432	14.9	19.0
68890	2002 <i>JF</i> ₇₆		9 15.2 85°10'	5°1'/20.9	18								

EPHEMERIDES

9 15.2

9 15.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
273912	2007 <i>HS</i> ₆₅		9 15.2 94°85	1.5/16.8	17		19929	1981 <i>DL</i> ₃		9 15.2 344°80	5.4/18.9	18	
8 9	23 56.22	+ 6 17.8	1.839	2.651	15.8	21.2	8 9	23 55.49	+ 8 31.5	1.192	2.029	21.2	18.2
8 19	23 51.97	+ 5 22.8	1.778	2.674	12.4	21.0	8 19	23 52.81	+ 9 9.5	1.119	2.022	17.5	17.9
8 29	23 45.74	+ 4 8.1	1.738	2.696	8.5	20.8	8 29	23 47.12	+ 9 22.9	1.062	2.016	13.0	17.6
9 8	23 38.19	+ 2 38.3	1.723	2.717	4.2	20.6	9 8	23 39.08	+ 9 10.7	1.025	2.011	8.4	17.4
9 18	23 30.14	+ 1 0.3	1.736	2.739	1.6	20.5	9 18	23 29.82	+ 8 34.9	1.011	2.007	5.5	17.2
9 28	23 22.55	- 0 37.5	1.777	2.759	5.1	20.8	9 28	23 20.86	+ 7 42.4	1.019	2.003	7.7	17.3
10 8	23 16.25	- 2 6.9	1.846	2.780	9.0	21.1	10 8	23 13.70	+ 6 43.5	1.051	2.001	12.2	17.5
10 18	23 11.85	- 3 22.1	1.940	2.800	12.4	21.3	10 18	23 9.38	+ 5 48.3	1.102	1.999	16.8	17.8
32612	Ghatere		9 15.2 166°28	2.7/12.9	18		362842	2012 <i>BV</i> ₂₀		9 15.2 25°16	3.5/12.2	18	
8 9	0 1.03	- 8 17.2	1.814	2.664	14.4	19.1	8 9	23 59.21	- 12 4.2	1.923	2.780	13.5	20.1
8 19	23 55.84	- 8 51.2	1.744	2.667	11.0	18.9	8 19	23 54.28	- 12 24.7	1.857	2.784	10.3	19.9
8 29	23 48.40	- 9 32.2	1.695	2.670	7.1	18.7	8 29	23 47.30	- 12 47.9	1.814	2.788	6.8	19.7
9 8	23 39.38	- 10 14.4	1.673	2.672	3.5	18.5	9 8	23 38.91	- 13 8.4	1.797	2.792	3.9	19.6
9 18	23 29.67	- 10 51.8	1.678	2.674	3.6	18.5	9 18	23 29.94	- 13 21.2	1.806	2.797	4.2	19.6
9 28	23 20.37	- 11 18.5	1.711	2.676	7.2	18.7	9 28	23 21.40	- 13 22.2	1.843	2.802	7.3	19.8
10 8	23 12.45	- 11 30.8	1.769	2.677	11.0	19.0	10 8	23 14.17	- 13 9.2	1.906	2.808	10.7	20.0
10 18	23 6.64	- 11 27.1	1.851	2.678	14.4	19.2	10 18	23 8.89	- 12 41.9	1.992	2.813	13.7	20.2
83280	2001 <i>RD</i> ₈₆		9 15.2 44°18	0.4/14.9	18		298663	2004 <i>CT</i> ₄₂		9 15.2 196°14	0.1/15.0	18	
8 9	23 57.81	- 1 26.9	1.263	2.125	18.7	19.4	8 9	23 57.09	- 1 30.0	2.226	3.055	12.9	21.2
8 19	23 53.96	- 1 49.0	1.212	2.141	14.4	19.2	8 19	23 52.49	- 1 49.5	2.143	3.053	9.9	21.0
8 29	23 47.40	- 2 27.2	1.181	2.157	9.4	19.0	8 29	23 46.10	- 2 19.3	2.083	3.051	6.5	20.8
9 8	23 38.98	- 3 15.8	1.173	2.174	3.9	18.7	9 8	23 38.41	- 2 56.1	2.049	3.049	2.8	20.6
9 18	23 29.87	- 4 7.1	1.188	2.192	1.8	18.6	9 18	23 30.12	- 3 35.8	2.043	3.047	1.2	20.4
9 28	23 21.44	- 4 52.9	1.229	2.210	7.1	19.0	9 28	23 22.07	- 4 13.5	2.066	3.044	5.0	20.7
10 8	23 14.86	- 5 26.2	1.294	2.229	11.9	19.3	10 8	23 15.04	- 4 44.6	2.117	3.041	8.6	20.9
10 18	23 10.87	- 5 43.3	1.380	2.248	15.9	19.6	10 18	23 9.66	- 5 5.9	2.193	3.037	11.7	21.1
476767	2008 <i>UZ</i> ₁₀₉		9 15.2 255°86	2.9/17.9	18		77767	2001 <i>PZ</i> ₆₂		9 15.2 11°39	6.6/6.4	18	
8 9	23 56.61	+ 6 42.0	1.797	2.608	16.1	21.5	8 9	23 51.54	- 20 5.3	2.159	3.030	11.6	18.6
8 19	23 52.61	+ 6 43.1	1.713	2.605	13.0	21.3	8 19	23 48.38	- 21 42.1	2.105	3.032	9.2	18.4
8 29	23 46.42	+ 6 25.9	1.649	2.601	9.3	21.1	8 29	23 43.44	- 23 17.3	2.075	3.034	7.3	18.3
9 8	23 38.60	+ 5 51.8	1.609	2.598	5.4	20.8	9 8	23 37.28	- 24 43.0	2.072	3.037	6.6	18.3
9 18	23 29.97	+ 5 4.3	1.595	2.594	3.0	20.7	9 18	23 30.59	- 25 52.2	2.095	3.040	7.8	18.4
9 28	23 21.58	+ 4 9.1	1.608	2.591	5.5	20.8	9 28	23 24.19	- 26 39.5	2.143	3.043	9.9	18.5
10 8	23 14.44	+ 3 13.5	1.647	2.587	9.4	21.1	10 8	23 18.86	- 27 2.9	2.215	3.047	12.2	18.7
10 18	23 9.30	+ 2 24.0	1.711	2.583	13.1	21.3	10 18	23 15.16	- 27 2.6	2.307	3.051	14.4	18.8
139113	2001 <i>FA</i> ₅₅		9 15.2 88°77	2.1/13.5	17		21854	Brendandwyer		9 15.2 25°79	3.4/12.4	18	
8 9	0 0.72	- 5 19.4	1.512	2.367	16.6	19.8	8 9	23 56.24	- 8 28.0	1.436	2.308	16.3	18.2
8 19	23 55.78	- 6 1.7	1.459	2.385	12.6	19.6	8 19	23 52.62	- 9 13.3	1.378	2.314	12.4	18.0
8 29	23 48.40	- 6 54.7	1.427	2.403	8.0	19.3	8 29	23 46.50	- 10 7.0	1.342	2.321	8.0	17.7
9 8	23 39.36	- 7 51.8	1.420	2.421	3.5	19.1	9 8	23 38.64	- 11 1.9	1.328	2.328	4.1	17.5
9 18	23 29.72	- 8 45.4	1.439	2.439	3.1	19.1	9 18	23 30.06	- 11 49.8	1.340	2.336	4.5	17.6
9 28	23 20.71	- 9 28.3	1.485	2.456	7.4	19.4	9 28	23 22.01	- 12 23.6	1.378	2.344	8.4	17.8
10 8	23 13.38	- 9 55.5	1.555	2.473	11.6	19.7	10 8	23 15.57	- 12 38.6	1.438	2.353	12.6	18.1
10 18	23 8.41	- 10 5.0	1.648	2.489	15.1	20.0	10 18	23 11.48	- 12 33.5	1.520	2.362	16.2	18.3
111785	2002 <i>CQ</i> ₁₈₆		9 15.2 278°59	0.8/13.7	17		518338	2017 <i>BH</i> ₁₃₇		9 15.2 283°94	3.6/19.6	17	
8 9	23 47.56	- 4 59.9	4.214	5.046	7.2	20.3	8 9	23 53.46	+ 10 44.3	2.604	3.377	12.7	21.5
8 19	23 44.44	- 5 29.7	4.127	5.041	5.5	20.1	8 19	23 49.55	+ 10 53.2	2.511	3.373	10.5	21.3
8 29	23 40.46	- 6 3.8	4.065	5.037	3.5	20.0	8 29	23 44.11	+ 10 47.3	2.440	3.370	7.9	21.1
9 8	23 35.90	- 6 40.2	4.031	5.032	1.5	19.8	9 8	23 37.56	+ 10 27.3	2.393	3.366	5.3	21.0
9 18	23 31.07	- 7 16.3	4.027	5.028	1.2	19.8	9 18	23 30.47	+ 9 54.7	2.374	3.363	3.6	20.9
9 28	23 26.34	- 7 49.7	4.054	5.023	3.2	20.0	9 28	23 23.53	+ 9 13.1	2.383	3.359	4.6	20.9
10 8	23 22.06	- 8 18.2	4.109	5.019	5.2	20.1	10 8	23 17.40	+ 8 26.9	2.420	3.356	7.0	21.1
10 18	23 18.55	- 8 40.0	4.190	5.014	7.0	20.2	10 18	23 12.63	+ 7 41.1	2.483	3.352	9.7	21.2
344774	2003 <i>WS</i> ₁₄₉		9 15.2 228°05	3.4/11.3	18		314409	2005 <i>UE</i> ₂₈₄		9 15.2 260°07	2.1/17.8	18	
8 9	23 56.65	- 10 35.9	2.245	3.096	12.0	21.1	8 9	23 52.56	+ 7 5.4	2.257	3.059	13.6	21.5
8 19	23 52.22	- 11 33.6	2.162	3.087	9.1	20.9	8 19	23 49.09	+ 6 38.4	2.165	3.052	10.9	21.3
8 29	23 45.95	- 12 37.0	2.103	3.076	6.1	20.7	8 29	23 43.92	+ 5 54.6	2.094	3.045	7.7	21.1
9 8	23 38.35	- 13 40.2	2.071	3.066	3.6	20.6	9 8	23 37.51	+ 4 56.0	2.049	3.039	4.3	20.9
9 18	23 30.10	- 14 37.3	2.067	3.054	4.3	20.6	9 18	23 30.49	+ 3 46.6	2.031	3.032	2.1	20.7
9 28	23 22.05	- 15 22.6	2.092	3.043	7.2	20.7	9 28	23 23.64	+ 2 32.1	2.042	3.025	4.5	20.8
10 8	23 15.01	- 15 52.1	2.143	3.031	10.3	20.9	10 8	23 17.71	+ 1 18.9	2.081	3.018	7.9	21.0
10 18	23 9.62	- 16 4.1	2.217	3.018	13.1	21.1	10 18	23 13.31	+ 0 12.8	2.145	3.011	11.1	21.2
358812	2008 <i>EP</i> ₁₁₂		9 15.2 108°34	0.6/15.7	18		373992	2004 <i>BN</i> ₃₁		9 15.2 285°58	0.3/15.4	18	
8 9	23 57.88	- 0 15.3	2.198	3.021	13.2	21.1	8 9	23 58.75	- 0 34.2	1.491	2.338	17.2	21.8
8 19	23 53.05	- 0 17.8	2.121	3.027	10.2	20.9	8 19	23 54.92	- 0 43.0	1.398	2.317	13.5	21.5
8 29	23 46.41	- 0 30.6	2.068	3.033	6.8	20.7	8 29	23 48.36	- 1 7.5	1.325	2.296	9.1	21.2
9 8	23 38.52	- 0 51.0	2.040	3.038	3.1	20.5	9 8	23 39.61	- 1 44.5	1.275	2.275	4.0	20.9
9 18	23 30.07	- 1 15.6	2.040	3.044	1.1	20.6	9 18	23 29.62	- 2 28.7	1.250	2.254	1.5	20.6
9 28	23 21.92	- 1 40.3	2.069	3.050	4.8	20.3	9 28	23 19.71	- 3 12.6	1.251	2.232	6.9	20.9
10 8	23 14.85	- 2 1.0	2.126	3.055	8.3	20.8	10 8	23 11.23	- 3 48.9	1.277	2.211	12.1	21.2
10 18	23 9.45	- 2 14.4	2.208	3.060	11.4	21.1	10 18	23 5.21	- 4 11.7	1.324	2.190	16.7	21.4
396183	2013 <i>GU</i> ₈₈		9 15.2 68°80	0.3/15.5	18		481733						

EPHEMERIDES

9 15.2

9 15.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
469018	2015 <i>AJ</i> ₂₃₆		9 15.2 229°95	5°8/20.2	18		387770	2003 <i>SC</i> ₄₃₃		9 15.2 164°00	5°6/9.5	18	
8 9	23 59.24	+13 3.8	1.728	2.507	17.9	21.5	8 9	0 3.15	-19 59.1	2.357	3.202	11.7	21.5
8 19	23 54.92	+13 26.7	1.636	2.498	15.1	21.3	8 19	23 56.96	-20 43.3	2.294	3.207	9.2	21.3
8 29	23 48.14	+13 27.1	1.563	2.490	11.7	21.1	8 29	23 48.89	-21 24.5	2.255	3.212	6.9	21.2
9 8	23 39.44	+13 3.7	1.511	2.480	8.2	20.8	9 8	23 39.57	-21 56.9	2.243	3.216	5.6	21.1
9 18	23 29.72	+12 17.7	1.485	2.471	5.9	20.7	9 18	23 29.76	-22 15.4	2.260	3.220	6.3	21.2
9 28	23 20.13	+11 14.2	1.485	2.461	6.9	20.7	9 28	23 20.37	-22 16.5	2.305	3.223	8.4	21.3
10 8	23 11.86	+10 1.2	1.512	2.450	10.2	20.9	10 8	23 12.20	-21 59.4	2.376	3.226	10.9	21.5
10 18	23 5.81	+ 8 47.8	1.562	2.439	13.9	21.1	10 18	23 5.84	-21 25.1	2.469	3.228	13.1	21.7
358838	2008 <i>FC</i> ₂₇		9 15.2 68°71	3°8/19.9	18		258698	2002 <i>GO</i> ₂₉		9 15.2 278°19	0°2/14.8	16	
8 9	23 53.18	+12 28.0	2.146	2.922	15.0	20.1	8 9	23 48.39	- 2 45.1	4.312	5.134	7.2	21.3
8 19	23 49.50	+12 8.9	2.076	2.940	12.2	20.0	8 19	23 45.06	- 3 2.4	4.221	5.128	5.5	21.1
8 29	23 44.11	+11 29.7	2.026	2.958	9.1	19.8	8 29	23 40.89	- 3 24.5	4.154	5.122	3.6	21.0
9 8	23 37.56	+10 32.2	2.001	2.975	6.0	19.6	9 8	23 36.13	- 3 49.6	4.116	5.116	1.5	20.8
9 18	23 30.52	+ 9 20.1	2.002	2.993	3.9	19.5	9 18	23 31.10	- 4 15.7	4.107	5.111	0.7	20.7
9 28	23 23.82	+ 7 59.2	2.031	3.011	4.9	19.6	9 28	23 26.17	- 4 40.6	4.129	5.105	2.9	20.9
10 8	23 18.18	+ 6 36.8	2.088	3.028	7.7	19.9	10 8	23 21.68	- 5 2.2	4.180	5.099	4.9	21.1
10 18	23 14.15	+ 5 19.3	2.171	3.046	10.6	20.1	10 18	23 17.95	- 5 18.8	4.258	5.093	6.7	21.2
488441	2016 <i>XH</i> ₂₄		9 15.2 312°67	13°4/27.0	18		221499	2006 <i>DL</i> ₂₁		9 15.2 289°50	2°4/12.9	18	
8 9	23 53.48	-33 5.5	1.601	2.470	15.1	19.7	8 9	23 58.36	- 9 36.2	2.238	3.084	12.2	20.2
8 19	23 51.12	-35 55.1	1.547	2.445	13.8	19.6	8 19	23 53.51	- 9 52.2	2.152	3.074	9.3	20.0
8 29	23 45.97	-38 34.3	1.515	2.420	13.4	19.5	8 29	23 46.81	-10 12.4	2.091	3.064	6.1	19.8
9 8	23 38.61	-40 48.7	1.506	2.396	14.2	19.5	9 8	23 38.76	-10 32.6	2.056	3.054	3.1	19.6
9 18	23 30.05	-42 26.2	1.518	2.372	16.0	19.6	9 18	23 30.07	-10 48.5	2.048	3.044	3.1	19.6
9 28	23 21.70	-43 19.5	1.549	2.349	18.2	19.6	9 28	23 21.61	-10 56.2	2.070	3.034	6.2	19.8
10 8	23 14.95	-43 28.2	1.597	2.326	20.4	19.8	10 8	23 14.21	-10 52.7	2.118	3.024	9.5	20.0
10 18	23 10.82	-42 56.1	1.657	2.304	22.4	19.9	10 18	23 8.49	-10 37.0	2.191	3.015	12.5	20.1
224984	2007 <i>EW</i> ₈₅		9 15.2 173°98	1°7/17.9	18		439513	2014 <i>BT</i> ₃₁		9 15.2 148°19	1°0/14.2	16	
8 9	23 51.94	+ 8 51.8	2.686	3.470	12.1	20.9	8 9	23 58.84	- 3 48.5	2.180	3.013	12.9	21.9
8 19	23 48.29	+ 7 50.9	2.595	3.471	9.7	20.7	8 19	23 53.79	- 4 17.2	2.108	3.022	9.9	21.8
8 29	23 43.23	+ 6 33.0	2.526	3.473	6.8	20.5	8 29	23 46.91	- 4 54.8	2.059	3.029	6.4	21.6
9 8	23 37.17	+ 5 1.0	2.485	3.474	3.8	20.3	9 8	23 38.76	- 5 37.2	2.036	3.037	2.6	21.3
9 18	23 30.67	+ 3 19.5	2.474	3.475	1.7	20.2	9 18	23 30.08	- 6 19.6	2.042	3.044	1.8	21.3
9 28	23 24.34	+ 1 34.6	2.493	3.475	3.9	20.3	9 28	23 21.73	- 6 57.1	2.077	3.050	5.4	21.6
10 8	23 18.81	- 0 7.2	2.542	3.475	6.9	20.5	10 8	23 14.50	- 7 25.4	2.139	3.056	8.9	21.8
10 18	23 14.56	- 1 40.2	2.619	3.475	9.7	20.7	10 18	23 8.98	- 7 42.0	2.227	3.061	12.0	22.0
7105	Yousyozan		9 15.2 256°40	1°0/14.2	18		396297	2014 <i>DZ</i> ₂₀		9 15.2 193°85	4°1/10.8	18	
8 9	23 57.18	- 2 14.5	1.775	2.619	15.0	18.7	8 9	23 58.22	-12 55.2	2.133	2.987	12.4	21.5
8 19	23 53.20	- 2 56.4	1.684	2.603	11.6	18.4	8 19	23 53.46	-13 51.2	2.061	2.986	9.5	21.3
8 29	23 46.93	- 3 52.7	1.614	2.587	7.6	18.1	8 29	23 46.78	-14 50.6	2.012	2.984	6.5	21.1
9 8	23 38.91	- 4 58.6	1.569	2.571	3.1	17.8	9 8	23 38.74	-15 47.2	1.991	2.982	4.3	20.9
9 18	23 29.96	- 6 7.7	1.552	2.554	2.1	17.7	9 18	23 30.10	-16 34.9	1.997	2.979	5.0	21.0
9 28	23 21.15	- 7 12.1	1.562	2.537	6.6	18.0	9 28	23 21.75	-17 8.2	2.031	2.976	7.8	21.2
10 8	23 13.56	- 8 4.8	1.597	2.519	11.0	18.2	10 8	23 14.54	-17 24.1	2.091	2.972	10.8	21.3
10 18	23 8.02	- 8 41.1	1.656	2.501	14.9	18.4	10 18	23 9.12	-17 21.8	2.173	2.968	13.6	21.5
30624	4232 <i>P-L</i>		9 15.2 48°92	0°9/15.9	18		146327	2001 <i>NM</i> ₄		9 15.2 141°47	1°6/13.7	17	
8 9	23 58.40	+ 1 15.1	1.267	2.120	19.2	19.2	8 9	23 58.69	- 3 59.0	1.734	2.581	15.1	20.6
8 19	23 54.42	+ 1 1.5	1.217	2.139	14.9	19.0	8 19	23 54.14	- 4 45.6	1.666	2.588	11.5	20.4
8 29	23 47.72	+ 0 29.1	1.186	2.157	9.9	18.8	8 29	23 47.36	- 5 43.9	1.620	2.595	7.4	20.2
9 8	23 39.16	- 0 17.2	1.177	2.177	4.5	18.5	9 8	23 39.02	- 6 48.2	1.600	2.601	3.1	19.9
9 18	23 29.92	- 1 10.5	1.192	2.196	1.5	18.4	9 18	23 30.00	- 7 51.5	1.606	2.607	2.6	19.9
9 28	23 21.38	- 2 2.2	1.233	2.216	6.7	18.8	9 28	23 21.38	- 8 46.5	1.641	2.612	6.8	20.2
10 8	23 14.69	- 2 44.5	1.297	2.237	11.5	19.1	10 8	23 14.15	- 9 27.6	1.701	2.618	10.8	20.4
10 18	23 10.59	- 3 12.5	1.384	2.257	15.6	19.4	10 18	23 9.01	- 9 51.7	1.784	2.622	14.3	20.7
146622	2001 <i>TX</i> ₂₃₁		9 15.2 300°92	0°9/16.1	18		106350	2000 <i>VM</i> ₁		9 15.2 184°65	10°2/2.0	18	
8 9	23 54.57	+ 1 52.6	1.936	2.766	14.5	20.7	8 9	0 2.85	-31 6.8	2.087	2.930	13.1	19.4
8 19	23 50.92	+ 1 36.4	1.848	2.757	11.4	20.4	8 19	23 57.36	-33 11.2	2.042	2.931	11.4	19.3
8 29	23 45.27	+ 1 5.9	1.782	2.748	7.7	20.2	8 29	23 49.50	-35 5.4	2.021	2.931	10.3	19.2
9 8	23 38.14	+ 0 23.6	1.741	2.739	3.6	19.9	9 8	23 39.94	-36 39.2	2.026	2.930	10.5	19.2
9 18	23 30.27	- 0 25.9	1.726	2.730	1.3	19.7	9 18	23 29.63	-37 44.8	2.055	2.928	11.6	19.3
9 28	23 22.59	- 1 16.9	1.739	2.721	5.2	20.0	9 28	23 19.72	-38 17.9	2.107	2.925	13.4	19.4
10 8	23 16.01	- 2 3.1	1.778	2.712	9.3	20.2	10 8	23 11.28	-38 18.5	2.180	2.921	15.3	19.6
10 18	23 11.24	- 2 39.8	1.842	2.704	12.8	20.4	10 18	23 5.06	-37 50.2	2.270	2.917	16.9	19.7
60934	2000 <i>JL</i> ₅₁		9 15.2 11°71	1°3/16.7	18		222790	2002 <i>CB</i> ₂₀₅		9 15.2 9°40	0°5/16.2	18	
8 9	23 52.85	+ 3 23.6	2.356	3.171	12.7	19.4	8 9	23 48.72	+ 1 0.1	4.223	5.030	7.6	20.3
8 19	23 49.17	+ 3 9.6	2.273	3.172	10.0	19.2	8 19	23 45.32	+ 0 50.2	4.135	5.030	5.9	20.2
8 29	23 43.89	+ 2 42.9	2.213	3.173	6.8	19.0	8 29	23 41.06	+ 0 34.2	4.071	5.031	4.0	20.0
9 8	23 37.48	+ 2 5.9	2.179	3.174	3.5	18.8	9 8	23 36.21	+ 0 13.7	4.035	5.031	1.9	19.9
9 18	23 30.55	+ 1 22.1	2.172	3.175	1.4	18.7	9 18	23 31.10	- 0 9.6	4.028	5.032	0.7	19.8
9 28	23 23.83	+ 0 35.9	2.194	3.177	4.3	18.9	9 28	23 26.09	- 0 33.5	4.052	5.032	2.6	19.9
10 8	23 18.02	- 0 7.7	2.244	3.178	7.6	19.1	10 8	23 21.55	- 0 55.9	4.105	5.033	4.7	20.1
10 18	23 13.67	- 0 44.5	2.319	3.180	10.6	19.3	10 18	23 17.78	- 1 14.7	4.185	5.033	6.5	20.2
479715	2014 <i>DA</i> ₁₂₉		9 15.2 34°17	1°7/13.6	18		3787	Aivazovskij		9 15.2 230			

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9 15.2

9 15.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
178829	2001 <i>GQ</i> ₁₀		9 15.2 109°48	1°5/13.8	17		153693	2001 <i>UG</i> ₂₃		9 15.2 7°76	5°7/19.5	18	
8 9	23 59.58	- 3 20.8	1.640	2.487	15.8	20.9	8 9	23 57.29	+10 1.5	1.394	2.209	19.8	19.0
8 19	23 54.83	- 4 10.4	1.581	2.503	12.1	20.7	8 19	23 53.76	+10 41.7	1.322	2.209	16.4	18.8
8 29	23 47.79	- 5 12.4	1.544	2.518	7.7	20.5	8 29	23 47.53	+10 59.0	1.267	2.210	12.4	18.6
9 8	23 39.18	- 6 20.7	1.532	2.533	3.2	20.3	9 8	23 39.24	+10 52.4	1.233	2.212	8.3	18.4
9 18	23 29.97	- 7 27.8	1.547	2.548	2.5	20.3	9 18	23 29.95	+10 23.6	1.222	2.214	5.7	18.2
9 28	23 21.27	- 8 26.0	1.589	2.562	6.8	20.6	9 28	23 21.00	+ 9 38.1	1.237	2.217	7.2	18.3
10 8	23 14.08	- 9 9.6	1.657	2.576	10.9	20.8	10 8	23 13.67	+ 8 44.9	1.275	2.220	11.1	18.5
10 18	23 9.08	- 9 35.5	1.748	2.589	14.4	21.1	10 18	23 8.88	+ 7 52.6	1.335	2.224	15.0	18.8
299775	2006 <i>ST</i> ₄₅		9 15.2 292°93	3°1/12.5	18		427599	2003 <i>SO</i> ₁₇₉		9 15.2 359°61	6°4/11.9	16	
8 9	23 58.37	- 9 53.1	1.897	2.753	13.7	20.4	8 9	23 56.66	-13 57.9	0.916	1.820	20.4	19.7
8 19	23 53.93	-10 20.4	1.811	2.738	10.5	20.1	8 19	23 54.27	-14 22.2	0.864	1.816	15.8	19.4
8 29	23 47.31	-10 53.3	1.748	2.723	6.9	19.9	8 29	23 48.27	-14 49.2	0.830	1.813	10.9	19.2
9 8	23 39.05	-11 26.5	1.710	2.708	3.6	19.7	9 8	23 39.62	-15 8.7	0.815	1.812	6.9	19.0
9 18	23 29.99	-11 54.2	1.699	2.693	3.9	19.7	9 18	23 29.84	-15 10.8	0.820	1.812	7.5	19.0
9 28	23 21.14	-12 11.2	1.715	2.678	7.4	19.8	9 28	23 20.83	-14 48.7	0.847	1.815	12.0	19.3
10 8	23 13.50	-12 13.6	1.757	2.663	11.1	20.0	10 8	23 14.22	-14 0.9	0.892	1.819	16.9	19.5
10 18	23 7.84	-12 0.0	1.821	2.649	14.5	20.2	10 18	23 10.95	-12 50.2	0.956	1.825	21.2	19.8
471202	2010 <i>TS</i> ₁₃		9 15.2 39°99	0°3/15.5	15		496860	1999 <i>XL</i> ₁₃₆		9 15.2 145°64	4°6/19.8	17	
8 9	23 58.42	- 1 33.6	1.917	2.752	14.4	21.2	8 9	0 10.97	+14 10.4	2.118	2.850	16.4	24.3
8 19	23 53.73	- 1 31.0	1.846	2.758	11.1	21.0	8 19	0 3.13	+13 59.8	2.039	2.874	13.6	24.1
8 29	23 47.01	- 1 38.7	1.796	2.764	7.4	20.8	8 29	23 53.05	+13 27.3	1.981	2.896	10.2	24.0
9 8	23 38.86	- 1 53.8	1.771	2.771	3.2	20.6	9 8	23 41.41	+12 33.3	1.950	2.916	6.9	23.8
9 18	23 30.09	- 2 12.5	1.774	2.777	1.1	20.4	9 18	23 29.16	+11 21.1	1.947	2.933	4.6	23.7
9 28	23 21.69	- 2 30.4	1.804	2.784	5.3	20.7	9 28	23 17.37	+ 9 56.8	1.976	2.948	5.7	23.8
10 8	23 14.53	- 2 43.2	1.861	2.792	9.2	21.0	10 8	23 7.05	+ 8 28.7	2.035	2.961	8.8	24.0
10 18	23 9.27	- 2 47.9	1.943	2.799	12.5	21.2	10 18	22 58.90	+ 7 4.4	2.122	2.972	11.9	24.2
422692	2000 <i>GW</i> ₅₁		9 15.2 120°89	1°4/13.9	17		96276	1995 <i>VG</i> ₁₁		9 15.2 202°06	4°3/10.6	18	
8 9	0 0.26	- 4 9.6	1.825	2.667	14.7	22.0	8 9	23 58.80	-13 47.0	2.178	3.031	12.2	19.7
8 19	23 55.14	- 4 48.7	1.763	2.682	11.2	21.8	8 19	23 53.91	-14 43.3	2.104	3.028	9.4	19.5
8 29	23 47.90	- 5 38.0	1.723	2.696	7.2	21.6	8 29	23 47.09	-15 42.3	2.054	3.024	6.5	19.4
9 8	23 39.22	- 6 32.2	1.709	2.710	3.0	21.3	9 8	23 38.91	-16 38.0	2.030	3.019	4.5	19.2
9 18	23 29.97	- 7 25.3	1.723	2.724	2.3	21.3	9 18	23 30.11	-17 24.1	2.035	3.014	5.2	19.3
9 28	23 21.18	- 8 10.7	1.765	2.737	6.3	21.6	9 28	23 21.59	-17 55.4	2.068	3.009	7.9	19.4
10 8	23 13.78	- 8 43.8	1.833	2.749	10.2	21.9	10 8	23 14.19	-18 9.0	2.126	3.003	10.9	19.6
10 18	23 8.40	- 9 1.9	1.924	2.761	13.5	22.1	10 18	23 8.56	-18 4.3	2.207	2.996	13.6	19.8
67065	1999 <i>XW</i> ₂₆₁		9 15.2 348°20	4°3/25.2	18		90015	2002 <i>TX</i> ₂₆₄		9 15.2 86°60	3°8/18.6	18	
8 9	23 47.49	+23 20.9	4.267	4.933	9.6	19.1	8 9	23 57.60	+ 9 6.8	1.557	2.367	18.3	19.5
8 19	23 44.48	+23 8.1	4.165	4.933	8.3	19.0	8 19	23 53.57	+ 9 2.7	1.490	2.378	14.8	19.3
8 29	23 40.56	+22 41.3	4.083	4.932	7.0	18.9	8 29	23 47.14	+ 8 35.4	1.441	2.389	10.8	19.1
9 8	23 36.02	+22 0.6	4.024	4.932	5.6	18.8	9 8	23 38.98	+ 7 46.9	1.415	2.401	6.5	18.9
9 18	23 31.20	+21 7.0	3.992	4.931	4.6	18.8	9 18	23 30.09	+ 6 41.5	1.414	2.412	3.8	18.7
9 28	23 26.49	+20 2.6	3.988	4.931	4.4	18.8	9 28	23 21.62	+ 5 27.0	1.440	2.423	6.0	18.9
10 8	23 22.27	+18 50.7	4.013	4.931	5.1	18.8	10 8	23 14.67	+ 4 12.5	1.491	2.434	10.0	19.1
10 18	23 18.86	+17 35.0	4.067	4.930	6.4	18.9	10 18	23 9.98	+ 3 5.9	1.566	2.444	13.8	19.4
477289	2009 <i>SD</i> ₁₇₀		9 15.2 304°46	1°8/13.9	18		48134	2001 <i>FD</i> ₁₂₇		9 15.2 73°07	2°9/12.6	18	
8 9	23 57.28	- 4 55.2	1.423	2.287	16.9	21.3	8 9	23 56.55	- 5 3.6	1.410	2.276	16.9	18.5
8 19	23 53.88	- 5 18.5	1.335	2.266	13.1	21.0	8 19	23 52.89	- 6 17.3	1.355	2.288	12.8	18.3
8 29	23 47.72	- 5 54.8	1.268	2.246	8.6	20.7	8 29	23 46.72	- 7 44.6	1.321	2.300	8.2	18.1
9 8	23 39.38	- 6 38.7	1.224	2.226	3.7	20.3	9 8	23 38.80	- 9 16.7	1.311	2.312	3.8	17.9
9 18	23 29.85	- 7 23.2	1.205	2.206	2.9	20.2	9 18	23 30.18	-10 43.7	1.327	2.324	4.0	17.9
9 28	23 20.46	- 8 0.3	1.210	2.187	8.0	20.5	9 28	23 22.11	-11 55.7	1.368	2.336	8.3	18.2
10 8	23 12.58	- 8 23.2	1.240	2.168	13.0	20.7	10 8	23 15.68	-12 46.4	1.434	2.348	12.6	18.5
10 18	23 7.21	- 8 27.8	1.290	2.149	17.4	20.9	10 18	23 11.61	-13 13.3	1.521	2.360	16.3	18.8
188800	2005 <i>WO</i> ₆₂		9 15.2 113°61	5°1/ 9.3	18		119408	2001 <i>TS</i> ₇₀		9 15.2 151°55	0°1/15.1	18	
8 9	23 55.77	-16 38.6	2.205	3.066	11.8	20.3	8 9	23 58.55	- 0 46.1	1.775	2.611	15.3	20.0
8 19	23 51.52	-17 41.0	2.142	3.068	9.1	20.1	8 19	23 54.04	- 1 12.3	1.701	2.615	11.8	19.8
8 29	23 45.47	-18 43.7	2.103	3.070	6.6	19.9	8 29	23 47.34	- 1 52.1	1.649	2.619	7.8	19.5
9 8	23 38.18	-19 40.3	2.091	3.072	5.2	19.9	9 8	23 39.06	- 2 41.1	1.622	2.622	3.3	19.3
9 18	23 30.37	-20 24.9	2.105	3.074	6.0	19.9	9 18	23 30.08	- 3 34.0	1.622	2.626	1.4	19.1
9 28	23 22.88	-20 52.6	2.147	3.076	8.4	20.1	9 28	23 21.44	- 4 23.9	1.650	2.628	5.9	19.5
10 8	23 16.49	-21 1.3	2.213	3.077	11.0	20.3	10 8	23 14.14	- 5 5.0	1.704	2.631	10.1	19.7
10 18	23 11.79	-20 50.9	2.302	3.079	13.4	20.4	10 18	23 8.88	- 5 33.1	1.781	2.633	13.7	19.9
332468	2008 <i>DA</i> ₅₆		9 15.2 104°48	1°8/16.9	17		239186	2006 <i>KA</i> ₁₀₀		9 15.2 152°97	0°2/15.4	18	
8 9	23 59.87	+ 5 6.0	1.729	2.544	16.5	21.5	8 9	23 59.92	- 0 46.3	2.261	3.081	13.0	21.4
8 19	23 54.93	+ 4 41.7	1.668	2.565	13.0	21.3	8 19	23 54.58	- 1 0.4	2.185	3.089	10.0	21.2
8 29	23 47.80	+ 3 59.0	1.627	2.585	8.9	21.1	8 29	23 47.44	- 1 24.7	2.131	3.097	6.6	21.0
9 8	23 39.19	+ 3 1.5	1.611	2.605	4.6	20.9	9 8	23 39.04	- 1 56.1	2.104	3.104	2.9	20.8
9 18	23 30.01	+ 1 54.6	1.622	2.624	1.9	20.8	9 18	23 30.10	- 2 30.8	2.106	3.110	1.0	20.6
9 28	23 21.32	+ 0 45.8	1.661	2.643	5.4	21.1	9 28	23 21.47	- 3 4.2	2.138	3.116	4.8	20.9
10 8	23 14.09	- 0 17.6	1.727	2.661	9.4	21.3	10 8	23 13.92	- 3 32.1	2.198	3.122	8.3	21.2
10 18	23 8.96	- 1 9.9	1.817	2.679	13.0	21.6	10 18	23 8.05	- 3 51.3	2.283	3.126	11.4	21.4
224695	2006 <i>BD</i> ₃₀		9 15.2 358°33	0°8/14.4	18		81128	200					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
388386	2006 <i>UP</i> ₂₇₁		9 15.2 269°60	1°4/14.1	17		322702	2000 <i>BJ</i> ₁₁		9 15.2 104°00	3°5/19.4	18	
8 9	23 58.41	- 3 44.1	1.597	2.449	16.0	22.4	8 9	23 54.83	+10 10.8	2.428	3.205	13.4	20.9
8 19	23 54.42	- 4 16.8	1.510	2.434	12.4	22.2	8 19	23 50.69	+10 17.3	2.345	3.211	11.0	20.8
8 29	23 47.91	- 5 2.9	1.443	2.418	8.1	21.9	8 29	23 44.92	+10 8.4	2.283	3.216	8.2	20.6
9 8	23 39.43	- 5 57.5	1.401	2.402	3.4	21.6	9 8	23 38.00	+ 9 44.7	2.246	3.221	5.3	20.4
9 18	23 29.92	- 6 53.6	1.384	2.386	2.5	21.5	9 18	23 30.55	+ 9 8.4	2.236	3.227	3.5	20.3
9 28	23 20.59	- 7 43.5	1.395	2.370	7.3	21.7	9 28	23 23.32	+ 8 23.5	2.254	3.232	4.6	20.4
10 8	23 12.63	- 8 20.3	1.430	2.353	11.9	22.0	10 8	23 17.00	+ 7 34.8	2.301	3.237	7.3	20.6
10 18	23 6.96	- 8 39.9	1.487	2.337	16.1	22.2	10 18	23 12.17	+ 6 47.6	2.373	3.242	10.1	20.8
257756	2000 <i>BP</i> ₂₁		9 15.2 16°81	2°8/18.1	18		296906	2010 <i>CO</i> ₅₁		9 15.2 37°43	5°6/ 9.5	18	
8 9	23 55.35	+ 6 21.4	2.160	2.963	14.1	20.2	8 9	23 52.41	-11 7.9	1.463	2.345	15.5	20.1
8 19	23 51.28	+ 6 32.5	2.079	2.965	11.3	20.0	8 19	23 49.62	-12 59.0	1.420	2.360	11.7	19.9
8 29	23 45.39	+ 6 29.1	2.018	2.967	8.1	19.9	8 29	23 44.53	-14 56.5	1.399	2.377	7.9	19.8
9 8	23 38.21	+ 6 12.5	1.982	2.969	4.8	19.7	9 8	23 37.88	-16 49.3	1.402	2.394	5.6	19.7
9 18	23 30.43	+ 5 45.0	1.974	2.972	2.8	19.5	9 18	23 30.63	-18 26.4	1.432	2.411	6.9	19.8
9 28	23 22.88	+ 5 10.9	1.993	2.974	4.8	19.7	9 28	23 23.91	-19 39.1	1.486	2.430	10.2	20.0
10 8	23 16.35	+ 4 35.1	2.039	2.977	8.0	19.9	10 8	23 18.70	-20 23.4	1.564	2.448	13.6	20.3
10 18	23 11.48	+ 4 2.4	2.111	2.980	11.1	20.1	10 18	23 15.65	-20 39.2	1.661	2.467	16.6	20.6
349848	2009 <i>CT</i> ₆₂		9 15.2 347°88	3°1/12.3	18		5523	Luminet		9 15.2 91°23	1°8/13.4	18	
8 9	23 53.86	- 7 26.2	1.607	2.475	15.1	20.7	8 9	23 55.67	- 5 32.1	1.981	2.830	13.4	17.4
8 19	23 50.72	- 8 21.9	1.537	2.471	11.5	20.5	8 19	23 51.64	- 6 12.8	1.908	2.832	10.2	17.2
8 29	23 45.31	- 9 27.8	1.489	2.468	7.4	20.3	8 29	23 45.68	- 7 2.7	1.858	2.833	6.6	17.0
9 8	23 38.25	-10 36.8	1.465	2.465	3.8	20.0	9 8	23 38.36	- 7 56.5	1.833	2.834	2.9	16.8
9 18	23 30.43	-11 40.9	1.467	2.462	4.2	20.1	9 18	23 30.43	- 8 48.5	1.836	2.836	2.7	16.8
9 28	23 22.94	-12 32.4	1.495	2.460	8.0	20.3	9 28	23 22.80	- 9 32.8	1.867	2.837	6.3	17.0
10 8	23 16.81	-13 5.6	1.547	2.458	12.0	20.5	10 8	23 16.31	-10 4.7	1.924	2.838	9.9	17.2
10 18	23 12.78	-13 18.1	1.620	2.457	15.6	20.8	10 18	23 11.61	-10 21.6	2.005	2.840	13.1	17.4
391953	2008 <i>WD</i> ₁₈		9 15.2 243°91	0°3/14.9	18		13331	1998 <i>SU</i> ₅₂		9 15.2 291°07	0°5/16.3	18	R
8 9	23 58.19	- 1 46.6	2.035	2.867	13.8	22.2	8 9	23 48.20	+ 1 26.2	4.149	4.956	7.8	18.5
8 19	23 53.67	- 2 9.0	1.942	2.854	10.7	22.0	8 19	23 45.00	+ 1 10.3	4.052	4.948	6.0	18.4
8 29	23 47.11	- 2 43.0	1.872	2.841	7.0	21.7	8 29	23 40.93	+ 0 47.8	3.979	4.939	4.1	18.2
9 8	23 39.01	- 3 24.9	1.827	2.828	3.0	21.5	9 8	23 36.23	+ 0 20.2	3.935	4.931	1.9	18.1
9 18	23 30.12	- 4 10.2	1.811	2.814	1.4	21.3	9 18	23 31.25	- 0 10.5	3.919	4.923	0.7	17.9
9 28	23 21.39	- 4 53.1	1.822	2.800	5.6	21.6	9 28	23 26.35	- 0 42.0	3.934	4.914	2.7	18.1
10 8	23 13.74	- 5 28.4	1.861	2.785	9.6	21.8	10 8	23 21.90	- 1 11.7	3.978	4.906	4.8	18.3
10 18	23 7.91	- 5 52.1	1.924	2.770	13.1	22.0	10 18	23 18.22	- 1 37.6	4.049	4.898	6.7	18.4
119946	2002 <i>JD</i> ₅₃		9 15.2 110°53	2°1/11.9	18		343689	2011 <i>CT</i> ₂₂		9 15.2 271°14	2°9/ 9.1	18	
8 9	23 52.75	-10 43.6	3.380	4.222	8.6	19.6	8 9	23 47.91	-16 36.3	4.383	5.234	6.6	20.6
8 19	23 48.55	-11 14.7	3.313	4.233	6.5	19.4	8 19	23 44.76	-17 22.5	4.304	5.225	5.1	20.5
8 29	23 43.24	-11 48.0	3.272	4.244	4.2	19.3	8 29	23 40.76	-18 8.8	4.252	5.216	3.6	20.4
9 8	23 37.20	-12 20.5	3.259	4.255	2.4	19.2	9 8	23 36.16	-18 52.3	4.228	5.207	2.9	20.3
9 18	23 30.86	-12 48.9	3.276	4.266	2.6	19.2	9 18	23 31.28	-19 30.4	4.233	5.198	3.4	20.3
9 28	23 24.72	-13 10.7	3.322	4.277	4.6	19.4	9 28	23 26.50	-20 0.5	4.267	5.189	4.8	20.4
10 8	23 19.27	-13 23.6	3.397	4.287	6.8	19.5	10 8	23 22.18	-20 21.0	4.328	5.180	6.3	20.5
10 18	23 14.86	-13 26.7	3.496	4.297	8.8	19.7	10 18	23 18.61	-20 31.1	4.413	5.171	7.8	20.6
298243	2002 <i>VY</i> ₄₂		9 15.2 349°49	3°7/12.0	18		170416	2003 <i>UU</i> ₅₂		9 15.2 131°33	7°3/23.5	18	
8 9	23 56.85	-10 24.6	1.703	2.568	14.5	20.2	8 9	23 56.34	+20 12.5	2.031	2.758	17.2	20.0
8 19	23 52.88	-11 5.3	1.633	2.565	11.1	20.0	8 19	23 52.31	+20 38.4	1.947	2.763	14.8	19.9
8 29	23 46.64	-11 51.8	1.586	2.563	7.3	19.8	8 29	23 46.23	+20 40.3	1.882	2.768	12.2	19.7
9 8	23 38.80	-12 37.7	1.564	2.561	4.1	19.6	9 8	23 38.64	+20 16.6	1.837	2.772	9.5	19.6
9 18	23 30.23	-13 16.2	1.567	2.559	4.6	19.6	9 18	23 30.31	+19 27.9	1.817	2.777	7.6	19.5
9 28	23 22.03	-13 41.1	1.598	2.558	8.1	19.8	9 28	23 22.23	+18 18.2	1.823	2.781	7.5	19.5
10 8	23 15.20	-13 48.8	1.652	2.557	11.8	20.0	10 8	23 15.31	+16 55.0	1.856	2.785	9.3	19.6
10 18	23 10.47	-13 38.1	1.729	2.557	15.1	20.3	10 18	23 10.28	+15 26.6	1.913	2.788	11.8	19.8
164333	2005 <i>BF</i>		9 15.2 336°36	2°1/16.8	18		69367	1994 <i>SD</i>		9 15.2 14°05	4°5/19.9	18	
8 9	23 52.45	+ 4 22.0	1.132	1.993	20.5	19.6	8 9	23 49.06	+12 50.4	1.385	2.201	19.8	18.8
8 19	23 50.58	+ 4 8.6	1.059	1.983	16.4	19.3	8 19	23 47.36	+12 21.5	1.316	2.205	16.3	18.6
8 29	23 45.75	+ 3 29.1	1.004	1.974	11.4	19.0	8 29	23 43.26	+11 21.3	1.265	2.210	12.2	18.4
9 8	23 38.61	+ 2 26.4	0.968	1.966	5.8	18.7	9 8	23 37.42	+ 9 51.8	1.234	2.216	7.8	18.1
9 18	23 30.26	+ 1 7.4	0.955	1.959	2.2	18.4	9 18	23 30.79	+ 7 59.4	1.227	2.223	4.6	18.0
9 28	23 22.23	- 0 16.6	0.966	1.952	7.3	18.7	9 28	23 24.55	+ 5 55.0	1.246	2.231	6.2	18.1
10 8	23 15.97	- 1 33.3	0.998	1.947	12.9	19.0	10 8	23 19.76	+ 3 51.9	1.289	2.240	10.4	18.4
10 18	23 12.52	- 2 33.4	1.050	1.942	17.9	19.3	10 18	23 17.20	+ 2 1.3	1.356	2.250	14.5	18.6
127222	2002 <i>JV</i> ₅		9 15.2 259°52	4°9/ 9.1	18		518200	2016 <i>PK</i> ₉₇		9 15.2 12°00	1°6/13.6	17	
8 9	23 53.90	-15 11.3	2.270	3.132	11.5	20.0	8 9	23 51.52	- 0 54.5	1.501	2.361	16.4	20.7
8 19	23 50.13	-16 25.7	2.199	3.126	8.8	19.8	8 19	23 49.03	- 2 15.2	1.433	2.363	12.5	20.5
8 29	23 44.63	-17 42.6	2.152	3.121	6.3	19.6	8 29	23 44.25	- 3 54.9	1.387	2.364	8.0	20.2
9 8	23 37.90	-18 55.2	2.132	3.115	4.9	19.5	9 8	23 37.82	- 5 46.1	1.364	2.367	3.3	20.0
9 18	23 30.59	-19 57.1	2.140	3.110	5.8	19.6	9 18	23 30.64	- 7 38.6	1.368	2.369	2.7	19.9
9 28	23 23.51	-20 42.9	2.175	3.104	8.3	19.7	9 28	23 23.81	- 9 21.2	1.398	2.372	7.4	20.2
10 8	23 17.42	-21 9.3	2.234	3.098	10.9	19.9	10 8	23 18.36	-10 45.0	1.453	2.376	11.8	20.5
10 18	23 12.93	-21 15.7	2.316	3.093	13.4	20.1	10 18	23 15.04	-11 44.8	1.530	2.380	15.7	20.8
486997	2014 <i>NQ</i> ₅₄												

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
362544	2010 <i>UV</i> ₅₂		9 15.2 32°06'	2.1/13.4	18		262022	2006 <i>QO</i> ₁₀₆		9 15.2 42°46'	1.0/16.1	17	
8 9	23 58.03	- 7 50.7	1.969	2.819	13.5	20.4	8 9	23 54.60	+ 3 50.2	1.253	2.105	19.5	20.6
8 19	23 53.40	- 8 8.1	1.900	2.823	10.2	20.2	8 19	23 51.76	+ 3 8.6	1.193	2.113	15.3	20.4
8 29	23 46.80	- 8 31.5	1.853	2.828	6.6	20.0	8 29	23 46.22	+ 2 2.7	1.152	2.122	10.3	20.1
9 8	23 38.83	- 8 56.3	1.833	2.833	3.0	19.8	9 8	23 38.73	+ 0 37.8	1.132	2.131	4.8	19.8
9 18	23 30.28	- 9 17.8	1.839	2.838	2.8	19.8	9 18	23 30.39	- 0 56.9	1.136	2.140	1.5	19.6
9 28	23 22.10	- 9 31.5	1.874	2.843	6.3	20.0	9 28	23 22.58	- 2 30.1	1.166	2.150	6.8	20.0
10 8	23 15.14	- 9 34.1	1.935	2.849	9.9	20.2	10 8	23 16.50	- 3 50.9	1.220	2.161	11.9	20.3
10 18	23 10.04	- 9 24.2	2.019	2.854	13.0	20.5	10 18	23 12.95	- 4 52.2	1.294	2.171	16.2	20.6
75482	1999 <i>XC</i> ₁₇₃		9 15.2 247°40'	4.0/11.9	18 R		454411	2014 <i>NC</i> ₄₇		9 15.2 332°96'	0.4/14.8	16	
8 9	23 59.69	-10 6.5	1.602	2.465	15.4	18.4	8 9	23 48.63	+ 1 49.9	1.862	2.705	14.4	21.1
8 19	23 55.29	-10 56.5	1.528	2.458	11.8	18.2	8 19	23 46.51	+ 0 36.1	1.773	2.692	11.2	20.9
8 29	23 48.39	-11 54.1	1.475	2.451	7.8	17.9	8 29	23 42.51	- 0 57.1	1.707	2.679	7.3	20.6
9 8	23 39.62	-12 51.8	1.447	2.444	4.4	17.7	9 8	23 37.11	- 2 44.6	1.665	2.666	3.1	20.3
9 18	23 29.96	-13 41.8	1.445	2.436	5.0	17.8	9 18	23 30.99	- 4 38.6	1.651	2.654	1.5	20.2
9 28	23 20.64	-14 16.6	1.469	2.429	8.8	18.0	9 28	23 25.03	- 6 29.7	1.665	2.643	5.9	20.5
10 8	23 12.80	-14 31.7	1.518	2.421	12.8	18.2	10 8	23 20.11	- 8 8.8	1.705	2.633	10.1	20.7
10 18	23 7.29	-14 25.8	1.588	2.413	16.4	18.4	10 18	23 16.90	- 9 29.6	1.770	2.623	13.7	20.9
192442	1997 <i>WJ</i> ₃		9 15.2 10°22'	4.0/23.8	18		395972	2013 <i>BV</i> ₉		9 15.2 164°52'	1.4/13.8	18	
8 9	23 47.41	+20 5.4	4.081	4.776	9.6	19.7	8 9	23 57.22	- 5 5.5	2.047	2.891	13.3	21.4
8 19	23 44.48	+19 59.6	3.983	4.777	8.2	19.6	8 19	23 52.78	- 5 34.9	1.972	2.892	10.1	21.2
8 29	23 40.62	+19 40.7	3.906	4.778	6.8	19.5	8 29	23 46.43	- 6 13.0	1.920	2.893	6.5	21.0
9 8	23 36.12	+19 8.8	3.853	4.779	5.3	19.4	9 8	23 38.72	- 6 55.3	1.893	2.894	2.8	20.8
9 18	23 31.32	+18 25.0	3.826	4.781	4.2	19.3	9 18	23 30.40	- 7 36.7	1.894	2.895	2.2	20.8
9 28	23 26.63	+17 31.4	3.828	4.782	4.1	19.3	9 28	23 22.37	- 8 11.9	1.924	2.896	5.9	21.0
10 8	23 22.44	+16 31.2	3.859	4.783	5.1	19.4	10 8	23 15.48	- 8 36.5	1.980	2.896	9.5	21.2
10 18	23 19.07	+15 27.9	3.918	4.785	6.5	19.5	10 18	23 10.36	- 8 48.1	2.060	2.897	12.7	21.4
271001	2002 <i>XK</i> ₇₄		9 15.2 337°61'	3.4/13.1	18		35277	1996 <i>RV</i> ₂₇		9 15.2 184°72'	0.7/16.6	18	
8 9	23 52.12	- 7 39.7	1.032	1.929	19.3	19.7	8 9	23 50.08	+ 1 26.3	4.618	5.417	7.2	19.3
8 19	23 50.69	- 8 2.3	0.960	1.909	15.0	19.3	8 19	23 46.32	+ 1 25.4	4.527	5.417	5.6	19.2
8 29	23 46.04	- 8 37.4	0.905	1.889	9.8	19.0	8 29	23 41.74	+ 1 19.0	4.460	5.417	3.8	19.1
9 8	23 38.84	- 9 17.7	0.870	1.872	4.7	18.7	9 8	23 36.60	+ 1 8.4	4.422	5.417	1.9	18.9
9 18	23 30.24	- 9 53.7	0.856	1.856	4.6	18.6	9 18	23 31.22	+ 0 54.9	4.413	5.416	0.7	18.8
9 28	23 21.93	-10 15.5	0.864	1.842	10.0	18.9	9 28	23 25.93	+ 0 40.3	4.436	5.416	2.4	19.0
10 8	23 15.54	-10 16.0	0.892	1.829	15.6	19.1	10 8	23 21.06	+ 0 26.5	4.488	5.416	4.3	19.1
10 18	23 12.19	- 9 52.6	0.938	1.819	20.5	19.4	10 18	23 16.92	+ 0 15.1	4.568	5.415	6.0	19.2
358609	2007 <i>VC</i> ₄₈		9 15.2 241°72'	2.6/12.8	18		295174	2008 <i>FU</i> ₈₃		9 15.2 274°34'	0.8/14.6	18	
8 9	23 59.29	- 8 57.4	2.069	2.916	13.0	21.6	8 9	23 55.76	- 0 43.4	1.527	2.378	16.6	20.7
8 19	23 54.42	- 9 24.9	1.986	2.908	10.0	21.4	8 19	23 52.47	- 1 30.8	1.443	2.366	12.9	20.4
8 29	23 47.54	- 9 58.0	1.927	2.900	6.5	21.1	8 29	23 46.68	- 2 36.3	1.380	2.354	8.5	20.1
9 8	23 39.20	-10 32.0	1.894	2.892	3.3	20.9	9 8	23 38.97	- 3 54.9	1.340	2.342	3.5	19.8
9 18	23 30.17	-11 1.6	1.888	2.884	3.3	20.9	9 18	23 30.27	- 5 18.6	1.327	2.330	2.0	19.7
9 28	23 21.38	-11 22.0	1.911	2.875	6.7	21.1	9 28	23 21.78	- 6 37.7	1.339	2.318	7.1	20.0
10 8	23 13.74	-11 29.6	1.961	2.867	10.2	21.3	10 8	23 14.68	- 7 43.6	1.377	2.305	11.9	20.2
10 18	23 7.93	-11 23.0	2.034	2.858	13.4	21.5	10 18	23 9.86	- 8 30.4	1.436	2.293	16.1	20.5
476282	2007 <i>VT</i> ₂₂₅		9 15.2 74°34'	1.4/13.9	18		102345	1999 <i>TQ</i> ₁₂₁		9 15.2 287°27'	1.0/16.1	18	
8 9	23 57.11	- 4 29.6	1.822	2.670	14.5	21.5	8 9	23 54.08	+ 3 52.8	1.476	2.317	17.6	19.5
8 19	23 52.85	- 5 2.3	1.755	2.677	11.0	21.3	8 19	23 51.34	+ 3 11.1	1.385	2.299	14.0	19.2
8 29	23 46.53	- 5 45.0	1.710	2.684	7.1	21.1	8 29	23 46.06	+ 2 5.6	1.313	2.281	9.6	18.9
9 8	23 38.75	- 6 32.7	1.690	2.691	3.0	20.9	9 8	23 38.76	+ 0 39.7	1.264	2.262	4.5	18.6
9 18	23 30.36	- 7 19.6	1.697	2.699	2.3	20.9	9 18	23 30.34	- 0 59.4	1.240	2.244	1.4	18.3
9 28	23 22.34	- 7 59.6	1.732	2.706	6.3	21.1	9 28	23 22.04	- 2 41.4	1.243	2.226	6.6	18.6
10 8	23 15.62	- 8 27.9	1.793	2.713	10.1	21.4	10 8	23 15.10	- 4 14.9	1.270	2.208	11.8	18.9
10 18	23 10.84	- 8 41.7	1.877	2.720	13.5	21.6	10 18	23 10.49	- 5 31.1	1.319	2.190	16.4	19.1
511044	2013 <i>RA</i> ₅₈		9 15.2 260°75'	2.3/17.1	18		510751	2012 <i>XW</i> ₅₃		9 15.2 232°07'	2.6/17.8	18	
8 9	23 58.58	+ 4 32.5	1.564	2.390	17.5	21.5	8 9	23 56.64	+ 6 28.2	2.038	2.842	14.8	21.9
8 19	23 54.61	+ 4 31.9	1.477	2.380	14.0	21.2	8 19	23 52.48	+ 6 23.9	1.948	2.836	11.9	21.7
8 29	23 48.07	+ 4 12.4	1.410	2.371	9.8	21.0	8 29	23 46.34	+ 6 3.1	1.879	2.829	8.5	21.5
9 8	23 39.56	+ 3 35.6	1.367	2.360	5.3	20.7	9 8	23 38.74	+ 5 27.3	1.834	2.823	4.9	21.3
9 18	23 30.01	+ 2 45.7	1.348	2.350	2.4	20.5	9 18	23 30.39	+ 4 39.7	1.816	2.816	2.6	21.1
9 28	23 20.65	+ 1 49.5	1.356	2.340	6.1	20.7	9 28	23 22.21	+ 3 45.6	1.827	2.809	5.0	21.3
10 8	23 12.71	+ 0 55.3	1.390	2.329	10.8	20.9	10 8	23 15.11	+ 2 51.2	1.864	2.802	8.7	21.5
10 18	23 7.10	+ 0 10.0	1.446	2.319	15.1	21.2	10 18	23 9.79	+ 2 2.3	1.927	2.794	12.1	21.7
450509	2006 <i>AX</i> ₂₃		9 15.2 338°44'	11.8/1.8	17		102509	1999 <i>TE</i> ₂₉₃		9 15.2 256°98'	5.0/20.7	18	
8 9	23 45.02	-11 4.3	0.822	1.745	20.2	19.5	8 9	23 56.32	+14 25.6	2.242	2.998	15.0	20.6
8 19	23 45.70	-15 59.9	0.774	1.737	15.5	19.2	8 19	23 52.26	+14 31.0	2.130	2.977	12.6	20.4
8 29	23 43.00	-21 21.6	0.749	1.730	12.2	19.0	8 29	23 46.26	+14 16.5	2.039	2.956	9.9	20.1
9 8	23 37.59	-26 33.6	0.748	1.724	12.7	19.0	9 8	23 38.74	+13 41.3	1.971	2.934	7.1	19.9
9 18	23 30.76	-30 59.6	0.770	1.719	16.6	19.2	9 18	23 30.36	+12 46.7	1.930	2.912	5.1	19.8
9 28	23 24.38	-34 15.1	0.812	1.714	21.3	19.5	9 28	23 22.00	+11 36.8	1.916	2.889	5.8	19.8
10 8	23 20.19	-36 13.8	0.870	1.711	25.5	19.7	10 8	23 14.55	+10 18.2	1.930	2.866	8.5	19.9
10 18	23 19.30	-37 2.5	0.939	1.709	28.9	20.0	10 18	23 8.76	+ 8 58.1	1.970	2.842	11.7	20.1
151433	2002 <i>FS</i> ₂₈		9 15.2 195°61'	4.0/10.4	18								

EPHEMERIDES

9 15.2

9 15.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
447214	2005 TY ₉₆		9 15.2 269°46	3°0/18.7 17			277980	2006 TZ ₅₇		9 15.3 322°84	3°3/13.2 18		
8 9	23 53.26	+ 9 5.9	2.244	3.035	14.0	21.7	8 9	23 56.06	- 7 48.2	1.143	2.028	18.7	21.3
8 19	23 49.75	+ 8 52.0	2.148	3.025	11.4	21.5	8 19	23 53.63	- 8 9.2	1.062	2.004	14.5	21.0
8 29	23 44.48	+ 8 20.6	2.073	3.016	8.3	21.3	8 29	23 47.99	- 8 41.8	0.999	1.981	9.6	20.6
9 8	23 37.92	+ 7 33.0	2.023	3.006	5.1	21.0	9 8	23 39.75	- 9 19.1	0.957	1.958	4.6	20.3
9 18	23 30.70	+ 6 32.2	2.000	2.997	3.0	20.9	9 18	23 30.02	- 9 52.4	0.937	1.937	4.4	20.2
9 28	23 23.62	+ 5 23.4	2.005	2.987	4.7	21.0	9 28	23 20.45	-10 12.5	0.941	1.916	9.8	20.4
10 8	23 17.46	+ 4 13.1	2.038	2.977	7.9	21.2	10 8	23 12.68	-10 12.6	0.965	1.897	15.3	20.7
10 18	23 12.86	+ 3 7.2	2.096	2.967	11.1	21.4	10 18	23 7.91	- 9 50.0	1.008	1.879	20.2	20.9
21372	1997 TM ₂₈		9 15.3 252°96	0°7/16.7 18			382045	2011 DB ₁₀		9 15.3 174°99	1°2/14.1 17		
8 9	23 46.96	+ 2 59.3	4.446	5.246	7.4	19.2	8 9	23 59.17	- 3 32.1	1.944	2.782	14.1	22.0
8 19	23 44.02	+ 2 34.0	4.353	5.244	5.8	19.1	8 19	23 54.40	- 4 9.7	1.868	2.784	10.8	21.8
8 29	23 40.29	+ 2 1.8	4.285	5.242	3.9	18.9	8 29	23 47.56	- 4 58.1	1.814	2.786	7.0	21.5
9 8	23 36.01	+ 1 24.1	4.245	5.240	2.0	18.8	9 8	23 39.26	- 5 52.6	1.786	2.787	2.9	21.3
9 18	23 31.47	+ 0 43.1	4.235	5.238	0.7	18.7	9 18	23 30.28	- 6 47.5	1.786	2.788	2.1	21.2
9 28	23 27.03	+ 0 1.0	4.255	5.236	2.5	18.8	9 28	23 21.60	- 7 36.3	1.815	2.788	6.1	21.5
10 8	23 23.01	- 0 39.5	4.304	5.234	4.4	19.0	10 8	23 14.15	- 8 14.0	1.870	2.788	9.9	21.7
10 18	23 19.69	- 1 16.3	4.381	5.232	6.2	19.1	10 18	23 8.61	- 8 37.3	1.950	2.787	13.3	21.9
263623	2008 GH ₃₉		9 15.3 75°52	3°7/20.1 18			154619	2003 SV ₁₈₉		9 15.3 1°93	4°2/11.1 18		
8 9	23 53.66	+12 46.3	2.249	3.020	14.5	20.6	8 9	23 56.77	-13 50.3	2.043	2.904	12.6	19.4
8 19	23 49.84	+12 22.6	2.181	3.041	11.9	20.4	8 19	23 52.46	-14 28.4	1.976	2.903	9.7	19.2
8 29	23 44.37	+11 39.4	2.133	3.062	8.9	20.3	8 29	23 46.23	-15 8.4	1.931	2.903	6.6	19.0
9 8	23 37.81	+10 38.4	2.110	3.083	5.8	20.1	9 8	23 38.66	-15 44.5	1.912	2.903	4.4	18.9
9 18	23 30.80	+ 9 23.6	2.113	3.104	3.7	20.0	9 18	23 30.51	-16 11.3	1.920	2.904	5.0	19.0
9 28	23 24.13	+ 8 0.6	2.146	3.125	4.7	20.1	9 28	23 22.71	-16 24.2	1.956	2.905	7.7	19.1
10 8	23 18.49	+ 6 36.4	2.206	3.146	7.4	20.3	10 8	23 16.09	-16 20.8	2.016	2.906	10.8	19.3
10 18	23 14.39	+ 5 17.3	2.293	3.166	10.2	20.6	10 18	23 11.25	-16 0.7	2.100	2.907	13.6	19.5
402357	2005 VL ₁₁₃		9 15.3 286°85	6°9/ 7.8 18			342535	2008 UO ₂₁₈		9 15.3 15°33	2°9/17.7 18		
8 9	23 58.96	-22 11.6	2.152	3.010	12.2	21.1	8 9	23 54.97	+ 5 48.7	1.431	2.265	18.4	19.8
8 19	23 54.28	-23 10.3	2.073	2.990	9.9	20.9	8 19	23 51.85	+ 5 50.4	1.362	2.268	14.7	19.6
8 29	23 47.53	-24 6.0	2.018	2.971	7.8	20.7	8 29	23 46.23	+ 5 31.0	1.311	2.271	10.4	19.3
9 8	23 39.25	-24 51.5	1.988	2.952	6.9	20.7	9 8	23 38.77	+ 4 52.3	1.283	2.275	5.8	19.1
9 18	23 30.23	-25 20.2	1.984	2.932	7.9	20.7	9 18	23 30.46	+ 3 59.3	1.279	2.280	2.9	18.9
9 28	23 21.45	-25 27.6	2.006	2.913	10.1	20.8	9 28	23 22.54	+ 2 59.4	1.300	2.285	6.1	19.1
10 8	23 13.83	-25 11.8	2.052	2.893	12.7	20.9	10 8	23 16.15	+ 2 1.4	1.346	2.291	10.6	19.4
10 18	23 8.10	-24 34.0	2.119	2.874	15.2	21.1	10 18	23 12.08	+ 1 12.5	1.414	2.298	14.7	19.7
514613	2003 UW ₃₃₂		9 15.3 294°00	0°7/15.8 18			40634	1999 RH ₁₇₈		9 15.3 57°59	1°9/13.7 17		
8 9	23 56.73	+ 0 31.6	1.731	2.569	15.6	22.0	8 9	23 56.65	- 2 8.8	1.229	2.096	18.8	18.9
8 19	23 53.01	+ 0 22.2	1.637	2.550	12.3	21.7	8 19	23 53.23	- 3 16.9	1.181	2.114	14.3	18.7
8 29	23 46.96	- 0 1.8	1.564	2.532	8.3	21.5	8 29	23 47.09	- 4 42.7	1.154	2.132	9.1	18.5
9 8	23 39.10	- 0 37.7	1.514	2.513	3.8	21.2	9 8	23 39.08	- 6 17.2	1.149	2.151	3.8	18.2
9 18	23 30.26	- 1 20.8	1.491	2.495	1.3	20.9	9 18	23 30.39	- 7 49.4	1.168	2.169	3.1	18.2
9 28	23 21.53	- 2 5.0	1.495	2.477	5.9	21.2	9 28	23 22.38	- 9 8.4	1.213	2.188	8.1	18.6
10 8	23 14.01	- 2 43.7	1.524	2.459	10.5	21.4	10 8	23 16.20	-10 6.4	1.281	2.207	12.8	18.9
10 18	23 8.56	- 3 11.6	1.577	2.441	14.5	21.6	10 18	23 12.59	-10 40.1	1.370	2.227	16.8	19.2
198587	2004 YD ₃₂		9 15.3 278°47	9°0/ 6.8 18			385179	2013 WK ₄₅		9 15.3 217°12	1°0/15.8 17		
8 9	0 1.40	-24 57.2	1.768	2.630	14.2	19.8	8 9	0 11.72	- 0 39.2	1.405	2.233	19.0	21.3
8 19	23 56.54	-26 10.9	1.705	2.620	11.7	19.7	8 19	0 5.24	- 0 24.4	1.317	2.224	15.1	21.0
8 29	23 49.16	-27 18.5	1.663	2.610	9.7	19.5	8 29	23 55.41	- 0 23.2	1.248	2.214	10.2	20.7
9 8	23 39.97	-28 10.5	1.646	2.600	9.0	19.5	9 8	23 42.88	- 0 33.5	1.204	2.202	4.7	20.3
9 18	23 29.98	-28 39.0	1.654	2.590	10.1	19.5	9 18	23 28.87	- 0 51.2	1.185	2.189	1.6	20.1
9 28	23 20.41	-28 38.8	1.685	2.580	12.4	19.6	9 28	23 15.05	- 1 10.1	1.194	2.175	7.4	20.4
10 8	23 12.40	-28 9.6	1.739	2.570	15.1	19.8	10 8	23 3.10	- 1 24.1	1.229	2.159	12.9	20.7
10 18	23 6.74	-27 14.1	1.812	2.560	17.6	20.0	10 18	22 54.20	- 1 28.1	1.287	2.142	17.7	20.9
37790	1997 UX ₂₆		9 15.3 305°74	0°5/14.3 18			91832	1999 TS ₃₀₀		9 15.3 272°10	4°1/19.8 18		
8 9	23 47.15	- 3 13.4	4.211	5.038	7.3	19.8	8 9	23 54.72	+11 23.7	2.285	3.060	14.2	19.9
8 19	23 44.22	- 3 46.2	4.121	5.032	5.6	19.6	8 19	23 50.85	+11 33.7	2.192	3.054	11.7	19.7
8 29	23 40.45	- 4 24.3	4.056	5.026	3.6	19.5	8 29	23 45.21	+11 26.6	2.119	3.049	8.9	19.6
9 8	23 36.09	- 5 5.3	4.019	5.020	1.5	19.3	9 8	23 38.26	+11 2.7	2.071	3.043	6.0	19.4
9 18	23 31.46	- 5 47.0	4.012	5.015	1.0	19.3	9 18	23 30.66	+10 23.8	2.049	3.037	4.2	19.2
9 28	23 26.92	- 6 26.8	4.036	5.009	3.0	19.4	9 28	23 23.20	+ 9 33.9	2.055	3.032	5.1	19.3
10 8	23 22.82	- 7 2.0	4.088	5.003	5.1	19.6	10 8	23 16.68	+ 8 38.6	2.088	3.026	7.9	19.5
10 18	23 19.47	- 7 31.0	4.167	4.998	6.9	19.7	10 18	23 11.73	+ 7 43.7	2.147	3.020	10.8	19.6
356444	2010 XK ₃₅		9 15.3 298°13	1°6/12.1 17			33943	2000 LE ₃₆		9 15.3 344°92	3°2/17.6 18		
8 9	23 48.06	- 9 26.6	4.147	4.989	7.1	20.5	8 9	23 55.57	+ 5 17.6	1.343	2.183	19.1	17.7
8 19	23 44.93	-10 1.1	4.062	4.982	5.4	20.4	8 19	23 52.60	+ 5 32.5	1.267	2.177	15.4	17.4
8 29	23 40.91	-10 38.3	4.002	4.975	3.5	20.2	8 29	23 46.91	+ 5 26.6	1.210	2.171	11.0	17.2
9 8	23 36.29	-11 15.8	3.971	4.968	1.9	20.1	9 8	23 39.14	+ 5 0.9	1.174	2.166	6.2	16.9
9 18	23 31.39	-11 50.9	3.969	4.961	2.1	20.1	9 18	23 30.32	+ 4 19.4	1.161	2.162	3.2	16.7
9 28	23 26.58	-12 21.2	3.998	4.954	3.8	20.2	9 28	23 21.80	+ 3 29.1	1.174	2.159	6.6	16.9
10 8	23 22.24	-12 44.5	4.054	4.947	5.7	20.4	10 8	23 14.87	+ 2 38.9	1.210	2.156	11.3	17.2
10 18	23 18.69	-12 59.6	4.136	4.941	7.5	20.5	10 18	23 10.47	+ 1 56.6	1.267	2.154	15.8	17.4
9054	Hippocastanum		9 15.3 349°24	10°6/ 4.8 18			491629	2012 TX ₁₅₂		9 15.3 116°43	1°3/16.6 16		
8 9	23 51.												

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
402069	2003 <i>TV</i> ₄₄		9 15.3 322°94	2°1/17.5 17			447080	2004 <i>TH</i> ₃₂		9 15.3 351°42	0°1/15.2 18		
8 9	23 54.98	+ 4 35.6	2.190	3.000	13.6	21.6	8 9	23 54.76	- 2 15.5	1.668	2.520	15.4	20.3
8 19	23 51.08	+ 4 41.2	2.100	2.994	10.9	21.4	8 19	23 51.40	- 2 18.4	1.591	2.514	11.9	20.0
8 29	23 45.37	+ 4 33.5	2.032	2.987	7.7	21.2	8 29	23 45.81	- 2 32.9	1.535	2.508	7.9	19.8
9 8	23 38.34	+ 4 13.8	1.989	2.980	4.3	20.9	9 8	23 38.59	- 2 55.5	1.502	2.503	3.4	19.5
9 18	23 30.66	+ 3 44.9	1.973	2.974	2.1	20.8	9 18	23 30.59	- 3 21.6	1.496	2.499	1.3	19.3
9 28	23 23.14	+ 3 10.8	1.985	2.968	4.6	21.0	9 28	23 22.87	- 3 45.7	1.515	2.497	6.0	19.7
10 8	23 16.59	+ 2 36.7	2.025	2.962	8.1	21.2	10 8	23 16.44	- 4 2.6	1.560	2.494	10.3	19.9
10 18	23 11.65	+ 2 6.9	2.089	2.956	11.3	21.4	10 18	23 12.06	- 4 8.5	1.628	2.493	14.1	20.1
515656	2014 <i>OX</i> ₈₇		9 15.3 234°77	1°4/16.9 18			418213	2008 <i>CB</i> ₁₅₉		9 15.3 181°16	2°9/17.9 17		
8 9	23 53.29	+ 4 20.5	2.265	3.078	13.2	21.8	8 9	0 0.43	+ 6 52.4	1.860	2.660	16.1	21.6
8 19	23 49.67	+ 3 55.1	2.181	3.077	10.4	21.6	8 19	23 55.56	+ 6 52.1	1.776	2.662	12.9	21.4
8 29	23 44.38	+ 3 15.2	2.119	3.077	7.2	21.4	8 29	23 48.47	+ 6 33.8	1.713	2.662	9.3	21.2
9 8	23 37.89	+ 2 23.4	2.082	3.076	3.7	21.2	9 8	23 39.72	+ 5 59.1	1.674	2.662	5.4	21.0
9 18	23 30.84	+ 1 23.7	2.073	3.076	1.4	21.0	9 18	23 30.18	+ 5 11.1	1.663	2.662	2.9	20.8
9 28	23 24.00	+ 0 21.7	2.093	3.076	4.4	21.2	9 28	23 20.90	+ 4 15.8	1.679	2.661	5.4	21.0
10 8	23 18.09	- 0 37.1	2.140	3.075	7.9	21.5	10 8	23 12.89	+ 3 20.1	1.722	2.659	9.3	21.2
10 18	23 13.70	- 1 27.7	2.213	3.075	11.0	21.7	10 18	23 6.91	+ 2 30.2	1.790	2.656	13.0	21.4
428664	2008 <i>GV</i> ₉₉		9 15.3 226°30	6°7/ 9.6 17			515870	2015 <i>OU</i> ₈₈		9 15.3 134°53	3°4/18.9 18		
8 9	0 3.64	-18 21.6	1.752	2.612	14.5	21.8	8 9	23 56.57	+ 8 49.0	2.197	2.985	14.3	21.5
8 19	23 58.23	-19 21.1	1.681	2.604	11.4	21.6	8 19	23 52.25	+ 8 57.7	2.113	2.988	11.7	21.3
8 29	23 50.28	-20 20.2	1.632	2.596	8.4	21.4	8 29	23 46.11	+ 8 50.4	2.051	2.991	8.6	21.1
9 8	23 40.50	-21 10.3	1.608	2.587	6.7	21.3	9 8	23 38.66	+ 8 27.9	2.013	2.994	5.4	20.9
9 18	23 29.86	-21 43.5	1.611	2.578	7.7	21.3	9 18	23 30.59	+ 7 52.6	2.002	2.996	3.4	20.8
9 28	23 19.61	-21 54.0	1.639	2.568	10.5	21.5	9 28	23 22.74	+ 7 8.6	2.019	2.999	4.9	20.9
10 8	23 10.88	-21 40.0	1.692	2.558	13.8	21.7	10 8	23 15.92	+ 6 21.6	2.064	3.002	8.0	21.1
10 18	23 4.50	-21 2.7	1.765	2.547	16.7	21.9	10 18	23 10.75	+ 5 36.9	2.134	3.004	11.0	21.3
146433	2001 <i>QX</i> ₂₇₄		9 15.3 353°41	6°3/ 9.5 18			479569	2014 <i>CO</i> ₈		9 15.3 74°48	3°3/17.8 18		
8 9	23 52.65	-14 24.0	1.436	2.322	15.5	19.1	8 9	0 1.15	+ 5 30.7	1.739	2.549	16.6	21.5
8 19	23 50.12	-15 40.9	1.376	2.317	12.0	18.8	8 19	23 56.21	+ 5 59.0	1.663	2.554	13.4	21.3
8 29	23 45.11	-17 2.1	1.336	2.312	8.5	18.6	8 29	23 48.92	+ 6 11.5	1.607	2.558	9.6	21.1
9 8	23 38.31	-18 17.7	1.320	2.308	6.4	18.5	9 8	23 39.92	+ 6 8.8	1.575	2.563	5.6	20.9
9 18	23 30.69	-19 18.1	1.328	2.306	7.6	18.6	9 18	23 30.13	+ 5 53.1	1.570	2.568	3.3	20.7
9 28	23 23.48	-19 55.3	1.360	2.304	10.9	18.8	9 28	23 20.66	+ 5 28.9	1.592	2.573	5.7	20.9
10 8	23 17.79	-20 5.5	1.414	2.303	14.5	19.0	10 8	23 12.60	+ 5 2.0	1.640	2.578	9.6	21.2
10 18	23 14.39	-19 48.9	1.487	2.304	17.8	19.2	10 18	23 6.70	+ 4 38.0	1.712	2.583	13.2	21.4
67080	2000 <i>AC</i> ₂₉		9 15.3 359°82	3°0/18.3 18			15436	1998 <i>VU</i> ₃₀		9 15.3 291°06	3°7/23.3 18		
8 9	23 55.59	+ 6 51.8	2.134	2.935	14.3	18.8	8 9	23 48.05	+18 53.1	4.447	5.146	8.8	16.5
8 19	23 51.56	+ 7 4.7	2.050	2.934	11.5	18.6	8 19	23 44.94	+18 57.4	4.345	5.143	7.6	16.4
8 29	23 45.69	+ 7 2.8	1.987	2.934	8.3	18.4	8 29	23 40.95	+18 50.3	4.264	5.139	6.2	16.3
9 8	23 38.48	+ 6 47.0	1.948	2.934	5.0	18.2	9 8	23 36.36	+18 31.9	4.207	5.136	4.8	16.2
9 18	23 30.63	+ 6 19.6	1.937	2.934	3.0	18.1	9 18	23 31.47	+18 2.9	4.178	5.133	3.9	16.1
9 28	23 22.98	+ 5 44.9	1.953	2.934	4.9	18.2	9 28	23 26.66	+17 25.2	4.177	5.130	3.8	16.1
10 8	23 16.37	+ 5 7.8	1.996	2.935	8.1	18.4	10 8	23 22.30	+16 41.1	4.204	5.127	4.7	16.2
10 18	23 11.43	+ 4 33.5	2.065	2.936	11.3	18.6	10 18	23 18.68	+15 53.7	4.259	5.123	6.1	16.3
393615	2004 <i>BZ</i> ₃₁		9 15.3 198°37	2°2/12.8 18			43436	2000 <i>YD</i> ₄₂		9 15.3 94°65	1°4/12.3 18		
8 9	23 56.56	- 7 7.4	2.318	3.161	11.9	22.2	8 9	23 47.78	- 8 38.3	4.316	5.156	6.9	19.4
8 19	23 52.12	- 7 54.6	2.238	3.159	9.1	22.1	8 19	23 44.69	- 9 13.8	4.237	5.156	5.2	19.2
8 29	23 45.96	- 8 48.9	2.182	3.156	5.9	21.9	8 29	23 40.76	- 9 52.2	4.184	5.157	3.3	19.1
9 8	23 38.57	- 9 45.7	2.153	3.152	2.8	21.7	9 8	23 36.26	-10 31.1	4.159	5.157	1.7	19.0
9 18	23 30.60	-10 39.6	2.153	3.148	2.9	21.7	9 18	23 31.52	-11 7.9	4.164	5.157	1.9	19.0
9 28	23 22.85	-11 25.2	2.181	3.144	6.0	21.9	9 28	23 26.88	-11 40.3	4.199	5.157	3.6	19.1
10 8	23 16.08	-11 58.6	2.236	3.139	9.3	22.0	10 8	23 22.69	-12 6.3	4.262	5.158	5.4	19.3
10 18	23 10.89	-12 17.3	2.316	3.134	12.1	22.2	10 18	23 19.25	-12 24.4	4.351	5.158	7.1	19.4
296804	2009 <i>VD</i> ₅₈		9 15.3 338°29	3°4/11.7 18			210381	2007 <i>VB</i> ₈₇		9 15.3 284°86	2°2/17.3 18		
8 9	23 53.12	- 9 59.9	1.948	2.813	13.0	20.1	8 9	23 57.10	+ 4 36.3	1.895	2.711	15.3	20.7
8 19	23 49.85	-10 49.7	1.873	2.804	9.9	19.8	8 19	23 52.98	+ 4 38.7	1.811	2.707	12.2	20.5
8 29	23 44.64	-11 45.8	1.820	2.796	6.5	19.6	8 29	23 46.76	+ 4 25.5	1.747	2.704	8.6	20.3
9 8	23 38.05	-12 42.3	1.792	2.789	3.7	19.4	9 8	23 39.00	+ 3 58.5	1.708	2.700	4.7	20.0
9 18	23 30.79	-13 32.6	1.792	2.782	4.3	19.5	9 18	23 30.47	+ 3 20.9	1.695	2.697	2.2	19.9
9 28	23 23.79	-14 10.9	1.818	2.776	7.5	19.7	9 28	23 22.17	+ 2 38.0	1.710	2.693	5.2	20.0
10 8	23 17.89	-14 32.9	1.869	2.770	10.9	19.9	10 8	23 15.04	+ 1 55.9	1.752	2.690	9.1	20.3
10 18	23 13.75	-14 36.8	1.942	2.765	13.9	20.0	10 18	23 9.82	+ 1 19.9	1.818	2.687	12.7	20.5
488077	2015 <i>VZ</i> ₂₄		9 15.3 291°03	0°5/15.8 18			86447	2000 <i>CE</i> ₃₂		9 15.3 143°46	0°3/15.0 18		
8 9	23 57.99	- 0 50.9	2.235	3.059	13.0	20.7	8 9	23 58.32	+ 0 9.2	1.873	2.704	14.8	20.4
8 19	23 53.30	- 0 47.1	2.148	3.054	10.1	20.5	8 19	23 53.78	- 0 37.2	1.802	2.713	11.4	20.2
8 29	23 46.79	- 0 52.6	2.083	3.048	6.8	20.3	8 29	23 47.18	- 1 38.2	1.754	2.722	7.5	19.9
9 8	23 38.94	- 1 5.3	2.044	3.043	3.1	20.1	9 8	23 39.13	- 2 49.0	1.731	2.731	3.2	19.7
9 18	23 30.45	- 1 22.0	2.034	3.037	1.0	19.9	9 18	23 30.45	- 4 3.1	1.735	2.739	1.4	19.6
9 28	23 22.17	- 1 39.1	2.052	3.032	4.8	20.2	9 28	23 22.13	- 5 13.3	1.768	2.746	5.7	19.9
10 8	23 14.89	- 1 52.5	2.097	3.027	8.4	20.4	10 8	23 15.07	- 6 13.0	1.829	2.753	9.7	20.1
10 18	23 9.26	- 1 59.2	2.168	3.021	11.5	20.6	10 18	23 9.94	- 6 57.9	1.913	2.759	13.1	20.4
432823	2011 <i>HY</i> ₁		9 15.3 340°89	2°1/13.5 18			9713	Oceax					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
451622	2012 <i>FJ</i> ₄₅		9 15.3 323°00	1.6°/13.7	18		487994	2015 <i>TU</i> ₃₃₆		9 15.3 274°99	3.4°/11.5	17	
8 9	23 56.68	- 6 39.0	2.172	3.017	12.6	21.5	8 9	23 57.20	-12 8.7	2.406	3.256	11.3	21.7
8 19	23 52.33	- 6 56.9	2.092	3.013	9.6	21.3	8 19	23 52.72	-12 47.5	2.312	3.234	8.7	21.5
8 29	23 46.17	- 7 21.3	2.034	3.008	6.2	21.1	8 29	23 46.45	-13 29.9	2.241	3.213	5.9	21.3
9 8	23 38.70	- 7 48.3	2.003	3.003	2.7	20.9	9 8	23 38.87	-14 11.1	2.198	3.191	3.6	21.1
9 18	23 30.62	- 8 13.7	1.999	2.999	2.3	20.9	9 18	23 30.60	-14 46.1	2.182	3.169	4.2	21.1
9 28	23 22.78	- 8 32.9	2.024	2.995	5.8	21.1	9 28	23 22.45	-15 10.1	2.195	3.147	6.9	21.2
10 8	23 15.99	- 8 42.4	2.075	2.991	9.2	21.3	10 8	23 15.20	-15 19.9	2.235	3.124	9.9	21.4
10 18	23 10.86	- 8 40.3	2.151	2.987	12.3	21.5	10 18	23 9.51	-15 14.3	2.298	3.101	12.7	21.5
183227	2002 <i>TY</i> ₄₇		9 15.3 346°51	5°0/12.0	18		517145	2013 <i>KR</i>		9 15.3 111°69	10°3/ 2.7	18	
8 9	23 52.56	-10 16.3	1.010	1.911	19.3	18.2	8 9	0 4.83	-38 26.1	2.442	3.256	12.3	21.4
8 19	23 51.02	-10 54.9	0.947	1.898	14.9	17.9	8 19	23 58.50	-39 30.9	2.407	3.261	11.1	21.4
8 29	23 46.24	-11 43.3	0.902	1.886	9.9	17.6	8 29	23 50.09	-40 20.7	2.393	3.267	10.4	21.3
9 8	23 38.98	-12 31.9	0.877	1.876	5.6	17.3	9 8	23 40.31	-40 48.7	2.403	3.273	10.4	21.3
9 18	23 30.49	-13 10.2	0.873	1.868	6.2	17.3	9 18	23 30.12	-40 50.4	2.436	3.278	11.1	21.4
9 28	23 22.45	-13 28.2	0.891	1.862	11.0	17.6	9 28	23 20.55	-40 24.3	2.492	3.283	12.3	21.5
10 8	23 16.43	-13 20.4	0.929	1.857	16.1	17.9	10 8	23 12.47	-39 32.1	2.569	3.289	13.7	21.6
10 18	23 13.43	-12 46.4	0.984	1.855	20.6	18.1	10 18	23 6.49	-38 17.7	2.664	3.294	15.0	21.7
332517	2008 <i>JB</i> ₄		9 15.3 60°59	12°0/30.7	18		479945	2014 <i>HU</i> ₁₆₁		9 15.3 266°29	8°0/ 6.3	18	
8 9	23 55.56	+32 6.9	1.554	2.226	23.5	20.6	8 9	23 58.24	-22 56.6	1.961	2.824	13.0	21.2
8 19	23 52.42	+32 37.3	1.492	2.246	21.2	20.5	8 19	23 53.98	-24 24.9	1.891	2.810	10.6	21.0
8 29	23 46.64	+32 29.0	1.442	2.266	18.6	20.3	8 29	23 47.50	-25 50.4	1.845	2.795	8.6	20.9
9 8	23 38.97	+31 37.8	1.408	2.287	15.8	20.2	9 8	23 39.36	-27 4.2	1.823	2.780	8.1	20.8
9 18	23 30.53	+30 3.4	1.394	2.308	13.4	20.1	9 18	23 30.43	-27 58.0	1.828	2.765	9.2	20.8
9 28	23 22.62	+27 51.9	1.402	2.329	12.1	20.1	9 28	23 21.75	-28 26.1	1.857	2.750	11.6	20.9
10 8	23 16.42	+25 15.3	1.433	2.350	12.5	20.2	10 8	23 14.35	-28 26.5	1.908	2.734	14.2	21.1
10 18	23 12.71	+22 28.8	1.489	2.371	14.2	20.3	10 18	23 8.98	-28 0.5	1.979	2.718	16.6	21.2
186381	2002 <i>HG</i> ₁₅		9 15.3 95°48	1°2/13.9	18		201158	2002 <i>LQ</i> ₁₅		9 15.3 103°70	7°7/ 7.6	18	
8 9	23 54.60	- 4 9.5	2.246	3.087	12.3	20.4	8 9	0 2.09	-23 17.6	1.953	2.809	13.3	20.7
8 19	23 50.62	- 4 48.0	2.174	3.092	9.4	20.3	8 19	23 56.54	-24 34.5	1.913	2.827	10.7	20.5
8 29	23 44.98	- 5 35.2	2.124	3.097	6.0	20.1	8 29	23 48.87	-25 45.1	1.897	2.846	8.6	20.4
9 8	23 38.16	- 6 27.0	2.101	3.102	2.5	19.8	9 8	23 39.82	-26 41.3	1.906	2.863	7.7	20.4
9 18	23 30.84	- 7 18.4	2.106	3.107	2.0	19.8	9 18	23 30.32	-27 16.7	1.941	2.881	8.7	20.5
9 28	23 23.78	- 8 4.2	2.140	3.112	5.4	20.1	9 28	23 21.40	-27 27.6	2.002	2.897	10.7	20.7
10 8	23 17.71	- 8 40.0	2.200	3.117	8.7	20.3	10 8	23 13.98	-27 13.7	2.086	2.914	13.0	20.9
10 18	23 13.20	- 9 3.0	2.286	3.122	11.6	20.5	10 18	23 8.64	-26 37.7	2.190	2.930	15.1	21.1
509555	2008 <i>BK</i> ₄₂		9 15.3 175°25	2°6/11.5	18		415007	2011 <i>GW</i> ₂₀		9 15.3 326°43	3°4/19.8	18	
8 9	23 55.87	-10 38.8	3.008	3.848	9.6	23.3	8 9	23 52.34	+11 2.6	2.625	3.398	12.6	20.9
8 19	23 51.18	-11 31.2	2.933	3.851	7.3	23.2	8 19	23 48.79	+11 0.2	2.534	3.396	10.4	20.7
8 29	23 45.15	-12 27.1	2.883	3.854	4.8	23.0	8 29	23 43.76	+10 42.4	2.464	3.394	7.8	20.6
9 8	23 38.19	-13 22.3	2.862	3.856	2.8	22.9	9 8	23 37.67	+10 10.1	2.419	3.393	5.2	20.4
9 18	23 30.83	-14 12.5	2.870	3.857	3.3	22.9	9 18	23 31.08	+ 9 25.4	2.401	3.391	3.4	20.3
9 28	23 23.66	-14 53.8	2.908	3.857	5.5	23.1	9 28	23 24.63	+ 8 32.1	2.411	3.390	4.4	20.3
10 8	23 17.25	-15 23.5	2.975	3.857	7.9	23.3	10 8	23 18.98	+ 7 35.3	2.450	3.388	6.8	20.5
10 18	23 12.07	-15 40.1	3.066	3.857	10.1	23.4	10 18	23 14.64	+ 6 39.7	2.515	3.387	9.5	20.7
219129	1998 <i>UK</i> ₃₁		9 15.3 343°65	2°1/16.8	18		275353	2011 <i>AH</i> ₁₆		9 15.3 135°44	2°0/17.5	18	
8 9	23 48.54	+ 3 16.5	1.036	1.912	20.9	19.4	8 9	23 57.07	+ 4 20.8	2.523	3.322	12.4	20.6
8 19	23 47.86	+ 3 18.1	0.963	1.896	16.7	19.1	8 19	23 52.38	+ 4 30.0	2.438	3.325	9.8	20.4
8 29	23 44.18	+ 2 54.7	0.907	1.881	11.6	18.8	8 29	23 46.09	+ 4 27.9	2.376	3.328	6.9	20.2
9 8	23 38.14	+ 2 8.6	0.870	1.869	6.0	18.4	9 8	23 38.67	+ 4 15.9	2.340	3.330	3.8	20.0
9 18	23 30.80	+ 1 6.0	0.854	1.858	2.3	18.2	9 18	23 30.71	+ 3 56.1	2.333	3.333	2.0	19.9
9 28	23 23.73	+ 0 2.5	0.860	1.848	7.5	18.4	9 28	23 22.96	+ 3 32.0	2.354	3.336	4.2	20.1
10 8	23 18.45	+ 1 4.9	0.887	1.841	13.3	18.7	10 8	23 16.11	+ 3 7.4	2.404	3.338	7.2	20.3
10 18	23 16.04	+ 1 51.7	0.932	1.836	18.5	19.0	10 18	23 10.71	+ 2 45.9	2.481	3.341	10.0	20.4
369523	2010 <i>VQ</i> ₂₁₉		9 15.3 25°07	1°6/16.5	17		144063	2004 <i>BU</i> ₄₂		9 15.3 233°23	0°3/15.6	18	
8 9	23 55.91	+ 2 53.3	1.138	1.998	20.5	21.1	8 9	23 59.79	+ 0 18.6	1.816	2.646	15.3	20.9
8 19	23 53.08	+ 2 44.7	1.080	2.004	16.2	20.9	8 19	23 55.24	+ 0 2.4	1.726	2.635	12.0	20.6
8 29	23 47.28	+ 2 13.4	1.040	2.011	11.0	20.6	8 29	23 48.39	+ 0 37.9	1.657	2.624	8.0	20.4
9 8	23 39.32	+ 1 23.3	1.020	2.018	5.4	20.3	9 8	23 39.79	+ 1 24.7	1.612	2.612	3.6	20.1
9 18	23 30.42	+ 0 21.7	1.023	2.026	1.9	20.1	9 18	23 30.28	+ 2 17.6	1.595	2.599	1.2	19.9
9 28	23 22.07	+ 0 41.6	1.050	2.035	7.0	20.5	9 28	23 20.93	+ 3 10.1	1.606	2.586	5.9	20.2
10 8	23 15.63	+ 1 36.5	1.099	2.045	12.3	20.8	10 8	23 12.82	+ 3 55.5	1.644	2.573	10.3	20.4
10 18	23 11.96	+ 2 16.1	1.169	2.056	16.9	21.1	10 18	23 6.76	+ 4 29.1	1.705	2.559	14.1	20.6
268709	2006 <i>HM</i> ₃₃		9 15.3 299°03	2°2/17.9	18		259427	2003 <i>SN</i>		9 15.3 240°67	0°7/16.0	18	
8 9	23 51.84	+ 7 3.1	2.325	3.127	13.2	20.5	8 9	23 56.42	+ 0 23.1	2.442	3.260	12.2	20.7
8 19	23 48.64	+ 6 41.7	2.227	3.114	10.6	20.3	8 19	23 51.97	+ 0 18.8	2.355	3.257	9.5	20.6
8 29	23 43.78	+ 6 4.1	2.151	3.101	7.6	20.1	8 29	23 45.87	+ 0 4.6	2.290	3.253	6.4	20.4
9 8	23 37.71	+ 5 12.1	2.100	3.089	4.3	19.8	9 8	23 38.59	+ 0 17.1	2.252	3.249	3.0	20.1
9 18	23 31.01	+ 4 9.3	2.077	3.077	2.2	19.7	9 18	23 30.75	+ 0 43.5	2.242	3.245	1.0	20.0
9 28	23 24.43	+ 3 0.8	2.081	3.065	4.4	19.8	9 28	23 23.09	+ 1 10.6	2.261	3.241	4.4	20.2
10 8	23 18.71	+ 1 52.6	2.114	3.053	7.7	20.0	10 8	23 16.33	+ 1 34.4	2.308	3.237	7.7	20.4
10 18	23 14.44	+ 0 50.5	2.172	3.041	10.9	20.2	10 18	23 11.04	+ 1 51.8	2.381	3.233	10.7	20.6
20559	Sheridanlamp		9 15.3 41°52	0°6/14.8	18		121592	1999 <i>VJ</i>					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
385819	2006 <i>FE</i> ₁₄		9 15.3 158°75	0°2/15.1	18		142011	2002 <i>PW</i> ₁₆₄		9 15.3 292°00	4°1/18.3	18	
8 9	23 56.75	- 0 4.2	2.052	2.881	13.8	22.0	8 9	23 57.83	+ 7 19.7	1.498	2.318	18.4	20.3
8 19	23 52.47	- 0 43.6	1.975	2.885	10.6	21.9	8 19	23 54.43	+ 7 39.5	1.400	2.295	15.1	20.0
8 29	23 46.31	- 1 36.1	1.921	2.889	7.0	21.6	8 29	23 48.30	+ 7 38.7	1.320	2.272	11.1	19.7
9 8	23 38.80	- 2 37.5	1.893	2.893	3.0	21.4	9 8	23 39.93	+ 7 17.1	1.262	2.249	6.8	19.4
9 18	23 30.69	- 3 42.5	1.893	2.896	1.2	21.3	9 18	23 30.23	+ 6 36.5	1.228	2.226	4.1	19.2
9 28	23 22.85	- 4 44.7	1.921	2.899	5.3	21.6	9 28	23 20.50	+ 5 42.8	1.220	2.203	6.7	19.3
10 8	23 16.13	- 5 38.3	1.977	2.902	9.0	21.8	10 8	23 12.12	+ 4 44.4	1.236	2.181	11.4	19.5
10 18	23 11.15	- 6 19.1	2.057	2.904	12.3	22.0	10 18	23 6.18	+ 3 50.2	1.275	2.158	16.0	19.7
319132	2005 <i>YY</i> ₇		9 15.3 341°34	4°1/19.8	18		352155	2007 <i>PP</i> ₄₇		9 15.3 232°97	0°8/13.5	17	
8 9	23 55.57	+11 2.7	2.276	3.052	14.2	21.0	8 9	23 47.15	- 5 13.0	4.480	5.311	6.8	20.7
8 19	23 51.51	+11 19.9	2.188	3.051	11.8	20.8	8 19	23 44.21	- 5 48.7	4.396	5.310	5.2	20.6
8 29	23 45.67	+11 20.6	2.121	3.050	8.9	20.7	8 29	23 40.47	- 6 28.5	4.338	5.309	3.3	20.4
9 8	23 38.54	+11 5.1	2.078	3.050	6.0	20.5	9 8	23 36.20	- 7 10.3	4.308	5.309	1.4	20.3
9 18	23 30.78	+10 35.0	2.061	3.049	4.2	20.4	9 18	23 31.69	- 7 51.6	4.308	5.308	1.2	20.3
9 28	23 23.19	+ 9 54.0	2.072	3.049	5.2	20.4	9 28	23 27.26	- 8 30.1	4.339	5.307	3.1	20.4
10 8	23 16.57	+ 9 7.4	2.111	3.048	7.8	20.6	10 8	23 23.26	- 9 3.5	4.398	5.306	4.9	20.6
10 18	23 11.53	+ 8 20.6	2.175	3.048	10.7	20.8	10 18	23 19.97	- 9 30.2	4.485	5.305	6.6	20.7
163245	2002 <i>FW</i> ₂₃		9 15.3 320°58	0°1/15.2	16		75769	2000 <i>AM</i> ₁₈₇		9 15.3 218°21	6°6/ 7.4	18	
8 9	23 47.71	- 1 30.8	4.295	5.113	7.3	19.8	8 9	23 56.45	-18 30.3	2.039	2.904	12.5	19.3
8 19	23 44.67	- 1 53.1	4.205	5.110	5.6	19.7	8 19	23 52.43	-20 8.7	1.974	2.899	9.9	19.1
8 29	23 40.79	- 2 20.8	4.140	5.107	3.7	19.6	8 29	23 46.38	-21 47.8	1.933	2.894	7.5	19.0
9 8	23 36.33	- 2 52.1	4.103	5.103	1.6	19.4	9 8	23 38.88	-23 19.0	1.918	2.888	6.6	18.9
9 18	23 31.62	- 3 24.8	4.096	5.100	0.6	19.3	9 18	23 30.69	-24 34.1	1.930	2.882	7.8	19.0
9 28	23 26.99	- 3 56.8	4.119	5.097	2.8	19.5	9 28	23 22.76	-25 26.8	1.968	2.876	10.2	19.1
10 8	23 22.80	- 4 25.5	4.171	5.093	4.8	19.6	10 8	23 16.00	-25 54.2	2.030	2.870	12.9	19.3
10 18	23 19.35	- 4 49.3	4.251	5.090	6.6	19.8	10 18	23 11.09	-25 56.5	2.112	2.863	15.3	19.5
203223	2001 <i>FC</i> ₈₂		9 15.3 211°47	3°0/19.1	18		334685	2003 <i>BV</i> ₃₇		9 15.3 310°76	17°8/21.6	17	
8 9	23 55.48	+10 35.8	2.393	3.167	13.6	20.9	8 9	0 8.59	+20 26.5	1.045	1.819	27.4	20.1
8 19	23 51.39	+10 10.3	2.294	3.161	11.1	20.7	8 19	0 4.60	+23 44.0	0.969	1.806	24.8	19.9
8 29	23 45.58	+ 9 26.4	2.217	3.153	8.2	20.5	8 29	23 56.24	+26 42.0	0.909	1.794	22.0	19.6
9 8	23 38.51	+ 8 25.6	2.165	3.145	5.1	20.3	9 8	23 43.85	+29 5.8	0.864	1.781	19.4	19.4
9 18	23 30.81	+ 7 11.2	2.141	3.136	3.0	20.1	9 18	23 28.65	+30 41.0	0.839	1.769	17.9	19.3
9 28	23 23.24	+ 5 48.4	2.146	3.127	4.5	20.2	9 28	23 12.98	+31 19.7	0.832	1.758	18.2	19.3
10 8	23 16.57	+ 4 24.1	2.181	3.117	7.6	20.4	10 8	22 59.47	+31 6.5	0.843	1.748	20.1	19.3
10 18	23 11.41	+ 3 4.5	2.241	3.107	10.7	20.6	10 18	22 50.20	+30 15.5	0.870	1.738	23.0	19.5
154233	2002 <i>JL</i> ₁₀₉		9 15.3 190°38	1°2/13.7	18		488299	2016 <i>UK</i> ₅₀		9 15.3 286°89	0°2/15.5	18	R
8 9	23 55.74	- 5 26.5	2.847	3.677	10.3	21.3	8 9	23 56.52	- 0 11.8	1.828	2.665	14.9	21.7
8 19	23 51.19	- 5 57.5	2.763	3.676	7.8	21.1	8 19	23 52.64	- 0 31.3	1.745	2.659	11.6	21.4
8 29	23 45.24	- 6 34.7	2.703	3.674	5.1	20.9	8 29	23 46.61	- 1 4.5	1.683	2.652	7.7	21.2
9 8	23 38.30	- 7 14.7	2.672	3.672	2.2	20.7	9 8	23 39.02	- 1 47.8	1.646	2.646	3.4	20.9
9 18	23 30.90	- 7 54.0	2.669	3.669	1.8	20.7	9 18	23 30.64	- 2 36.2	1.636	2.640	1.2	20.7
9 28	23 23.69	- 8 28.5	2.697	3.666	4.6	20.9	9 28	23 22.50	- 3 23.5	1.653	2.634	5.7	21.0
10 8	23 17.25	- 8 55.2	2.753	3.663	7.5	21.1	10 8	23 15.55	- 4 3.6	1.696	2.628	9.8	21.3
10 18	23 12.08	- 9 11.8	2.835	3.659	10.0	21.2	10 18	23 10.53	- 4 32.1	1.763	2.622	13.5	21.5
60651	2000 <i>FU</i> ₄₂		9 15.3 162°04	1°7/13.7	18		126795	2002 <i>EE</i> ₂₄		9 15.3 78°58	0°1/15.3	18	
8 9	0 0.01	- 4 43.2	1.903	2.744	14.2	20.1	8 9	23 55.41	- 0 47.2	2.179	3.009	13.0	20.1
8 19	23 55.10	- 5 24.4	1.831	2.749	10.9	19.9	8 19	23 51.32	- 1 10.0	2.105	3.015	10.1	20.0
8 29	23 48.09	- 6 15.7	1.781	2.754	7.0	19.7	8 29	23 45.50	- 1 43.7	2.053	3.021	6.6	19.8
9 8	23 39.59	- 7 11.8	1.757	2.758	3.0	19.4	9 8	23 38.45	- 2 24.8	2.027	3.027	2.8	19.5
9 18	23 30.43	- 8 6.7	1.761	2.762	2.5	19.4	9 18	23 30.88	- 3 9.1	2.029	3.033	1.1	19.4
9 28	23 21.61	- 8 53.9	1.794	2.765	6.4	19.7	9 28	23 23.58	- 3 51.4	2.060	3.039	4.9	19.7
10 8	23 14.07	- 9 28.5	1.853	2.767	10.2	19.9	10 8	23 17.30	- 4 27.1	2.118	3.045	8.4	19.9
10 18	23 8.49	- 9 47.7	1.936	2.769	13.5	20.1	10 18	23 12.64	- 4 52.8	2.201	3.051	11.5	20.1
390316	2013 <i>AG</i> ₁₃₂		9 15.3 241°59	0°3/14.7	16		272043	2005 <i>EH</i> ₉₇		9 15.3 130°13	4°2/18.8	17	
8 9	23 46.87	- 2 13.7	4.704	5.524	6.7	21.5	8 9	0 0.37	+ 9 6.2	1.580	2.383	18.3	20.7
8 19	23 43.97	- 2 46.6	4.612	5.519	5.1	21.4	8 19	23 55.87	+ 9 16.9	1.507	2.390	14.9	20.5
8 29	23 40.31	- 3 24.5	4.546	5.514	3.3	21.2	8 29	23 48.86	+ 9 5.7	1.452	2.397	11.0	20.3
9 8	23 36.13	- 4 5.6	4.508	5.508	1.4	21.1	9 8	23 40.01	+ 8 33.4	1.420	2.403	6.8	20.1
9 18	23 31.71	- 4 47.6	4.500	5.503	0.7	21.0	9 18	23 30.30	+ 7 43.2	1.414	2.410	4.2	19.9
9 28	23 27.37	- 5 28.3	4.522	5.497	2.7	21.2	9 28	23 20.97	+ 6 41.9	1.434	2.415	6.2	20.1
10 8	23 23.41	- 6 5.4	4.574	5.491	4.5	21.3	10 8	23 13.15	+ 5 37.9	1.480	2.421	10.2	20.3
10 18	23 20.12	- 6 37.0	4.654	5.486	6.2	21.4	10 18	23 7.66	+ 4 39.1	1.549	2.426	14.0	20.6
71306	2000 <i>AS</i> ₆₉		9 15.3 147°20	6°3/ 8.0	18		264314	1999 <i>TZ</i> ₆₉		9 15.3 305°62	0°3/15.0	17	
8 9	23 57.97	-18 55.7	2.080	2.941	12.4	18.9	8 9	23 55.17	- 1 43.6	1.989	2.828	13.8	21.8
8 19	23 53.42	-20 19.9	2.024	2.947	9.8	18.7	8 19	23 51.65	- 2 3.4	1.882	2.798	10.8	21.6
8 29	23 46.91	-21 43.1	1.993	2.953	7.4	18.6	8 29	23 46.06	- 2 35.2	1.797	2.767	7.2	21.3
9 8	23 39.05	-22 57.2	1.987	2.958	6.3	18.5	9 8	23 38.85	- 3 16.1	1.736	2.737	3.1	21.0
9 18	23 30.63	-23 55.2	2.009	2.964	7.4	18.6	9 18	23 30.70	- 4 1.5	1.703	2.707	1.4	20.8
9 28	23 22.58	-24 32.0	2.057	2.968	9.7	18.8	9 28	23 22.55	- 4 45.4	1.698	2.677	5.8	21.0
10 8	23 15.75	-24 45.6	2.129	2.973	12.2	18.9	10 8	23 15.37	- 5 22.2	1.719	2.647	10.0	21.2
10 18	23 10.75	-24 36.6	2.222	2.977	14.5	19.1	10 18	23 9.96	- 5 47.3	1.763	2.617	13.7	21.4
203212	2001 <i>ET</i> ₉		9 15.3 187°93	1°2/13.9	18		361534						

EPHEMERIDES

9 15.3

9 15.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
394174	2006 <i>QJ</i> ₁₆₅		9 15.3 32°39'	4.3/18.7	18		476839	2008 <i>UT</i> ₃₀₀		9 15.3 331°74'	2.2/16.7	18	
8 9	23 58.23	+ 7 31.7	1.495	2.314	18.5	20.2	8 9	23 53.79	+ 1 37.0	1.226	2.087	19.2	20.3
8 19	23 54.21	+ 8 5.3	1.434	2.327	15.0	20.1	8 19	23 51.74	+ 2 2.5	1.138	2.063	15.4	20.0
8 29	23 47.72	+ 8 19.0	1.392	2.342	10.9	19.9	8 29	23 46.75	+ 2 11.0	1.068	2.039	10.8	19.7
9 8	23 39.49	+ 8 13.1	1.372	2.357	6.8	19.7	9 8	23 39.35	+ 2 3.6	1.018	2.016	5.6	19.3
9 18	23 30.52	+ 7 50.5	1.377	2.372	4.3	19.6	9 18	23 30.54	+ 1 43.4	0.992	1.995	2.4	19.0
9 28	23 22.03	+ 7 16.5	1.407	2.389	6.2	19.7	9 28	23 21.78	+ 1 16.8	0.988	1.975	7.1	19.3
10 8	23 15.12	+ 6 38.6	1.462	2.406	10.0	20.0	10 8	23 14.59	+ 0 51.9	1.007	1.956	12.7	19.5
10 18	23 10.53	+ 6 3.4	1.540	2.424	13.7	20.2	10 18	23 10.14	+ 0 35.6	1.045	1.939	17.7	19.8
354517	2004 <i>RC</i> ₄₆		9 15.3 47°83'	1.8/13.1	18		236334	2006 <i>BE</i> ₁₀₂		9 15.3 359°21'	1.4/16.5	18	
8 9	23 51.49	- 1 7.7	1.861	2.709	14.2	19.9	8 9	23 56.88	+ 2 44.9	1.611	2.445	16.7	21.1
8 19	23 48.57	- 2 52.6	1.800	2.724	10.7	19.7	8 19	23 53.15	+ 2 35.4	1.535	2.445	13.2	20.8
8 29	23 43.79	- 4 52.7	1.763	2.739	6.8	19.5	8 29	23 47.08	+ 2 8.8	1.480	2.444	9.0	20.6
9 8	23 37.74	- 7 0.2	1.753	2.754	2.9	19.3	9 8	23 39.27	+ 1 27.8	1.447	2.444	4.4	20.3
9 18	23 31.17	- 9 5.8	1.771	2.770	2.8	19.3	9 18	23 30.64	+ 0 37.6	1.441	2.444	1.6	20.1
9 28	23 24.95	- 10 59.8	1.818	2.786	6.6	19.6	9 28	23 22.31	- 0 15.0	1.461	2.445	5.8	20.4
10 8	23 19.87	- 12 34.9	1.892	2.802	10.3	19.9	10 8	23 15.37	- 1 2.8	1.506	2.445	10.2	20.7
10 18	23 16.51	- 13 47.1	1.989	2.819	13.4	20.1	10 18	23 10.59	- 1 40.0	1.575	2.446	14.2	20.9
47419	1999 <i>XT</i> ₁₆₅		9 15.3 266°98'	2.6/12.7	18		50268	2000 <i>BD</i> ₃₁		9 15.3 356°27'	4.4/11.2	18	
8 9	23 56.81	- 7 15.6	2.008	2.859	13.2	19.4	8 9	23 56.99	- 11 46.9	1.746	2.611	14.2	19.0
8 19	23 52.79	- 8 3.9	1.917	2.841	10.1	19.1	8 19	23 53.03	- 12 43.8	1.679	2.611	10.9	18.8
8 29	23 46.71	- 9 1.4	1.848	2.822	6.6	18.9	8 29	23 46.87	- 13 46.0	1.635	2.610	7.3	18.6
9 8	23 39.09	- 10 2.6	1.805	2.804	3.3	18.6	9 8	23 39.13	- 14 46.0	1.616	2.610	4.6	18.4
9 18	23 30.65	- 11 1.1	1.789	2.785	3.5	18.6	9 18	23 30.70	- 15 36.5	1.623	2.610	5.4	18.5
9 28	23 22.34	- 11 50.5	1.802	2.766	7.0	18.8	9 28	23 22.62	- 16 11.0	1.657	2.610	8.6	18.7
10 8	23 15.09	- 12 25.5	1.840	2.747	10.7	19.0	10 8	23 15.89	- 16 25.8	1.715	2.610	12.1	18.9
10 18	23 9.65	- 12 43.2	1.902	2.727	14.1	19.2	10 18	23 11.20	- 16 20.1	1.795	2.610	15.2	19.1
401638	2013 <i>GQ</i> ₈₅		9 15.3 70°80'	2.6/18.5	18		415882	2001 <i>SJ</i> ₃₄₀		9 15.3 335°78'	5.3/22.2	18	
8 9	23 52.93	+ 8 34.0	2.255	3.049	13.8	20.8	8 9	23 50.18	+ 16 52.0	2.230	2.983	15.1	20.6
8 19	23 49.42	+ 8 11.5	2.176	3.057	11.1	20.6	8 19	23 47.53	+ 16 46.2	2.134	2.974	12.8	20.4
8 29	23 44.26	+ 7 31.8	2.118	3.064	8.0	20.4	8 29	23 43.16	+ 16 18.3	2.056	2.966	10.2	20.2
9 8	23 37.94	+ 6 37.2	2.085	3.071	4.7	20.2	9 8	23 37.54	+ 15 28.1	2.002	2.958	7.5	20.0
9 18	23 31.10	+ 5 31.4	2.080	3.078	2.6	20.1	9 18	23 31.27	+ 14 17.8	1.972	2.950	5.5	19.9
9 28	23 24.50	+ 4 19.8	2.103	3.086	4.4	20.2	9 28	23 25.15	+ 12 52.0	1.970	2.943	5.7	19.9
10 8	23 18.86	+ 3 8.8	2.154	3.093	7.6	20.5	10 8	23 19.94	+ 11 18.0	1.995	2.936	8.0	20.0
10 18	23 14.73	+ 2 4.1	2.230	3.100	10.6	20.7	10 18	23 16.26	+ 9 43.4	2.046	2.930	10.8	20.2
96615	1999 <i>CZ</i> ₁₇		9 15.3 286°90'	1.1/16.5	18		14301	5205 <i>T</i> ₋₂		9 15.3 201°66'	3.6/18.3	18	R
8 9	23 56.89	+ 1 18.7	2.382	3.197	12.5	19.4	8 9	23 59.53	+ 7 20.4	1.632	2.442	17.6	18.4
8 19	23 52.49	+ 1 23.6	2.284	3.183	9.9	19.1	8 19	23 55.25	+ 7 31.7	1.551	2.441	14.2	18.2
8 29	23 46.33	+ 1 18.3	2.208	3.168	6.8	18.9	8 29	23 48.50	+ 7 23.3	1.490	2.440	10.3	18.0
9 8	23 38.88	+ 1 4.6	2.158	3.154	3.3	18.7	9 8	23 39.91	+ 6 56.1	1.451	2.438	6.2	17.7
9 18	23 30.74	+ 0 44.9	2.136	3.139	1.3	18.5	9 18	23 30.40	+ 6 13.2	1.439	2.437	3.6	17.6
9 28	23 22.71	+ 0 22.9	2.143	3.125	4.5	18.7	9 28	23 21.16	+ 5 20.5	1.453	2.435	6.0	17.7
10 8	23 15.57	+ 0 2.6	2.178	3.110	7.9	18.9	10 8	23 13.33	+ 4 26.0	1.492	2.433	10.1	18.0
10 18	23 9.94	- 0 12.3	2.239	3.096	11.1	19.1	10 18	23 7.75	+ 3 36.7	1.555	2.431	14.0	18.2
83980	2002 <i>EP</i> ₉		9 15.3 346°91'	2.4/19.8	18		296674	2009 <i>SH</i> ₁₈₈		9 15.3 350°19'	1.7/12.2	17	
8 9	23 48.16	+ 10 34.6	3.928	4.690	8.9	18.9	8 9	23 48.41	- 9 27.7	3.964	4.807	7.4	20.5
8 19	23 45.14	+ 10 28.2	3.832	4.687	7.3	18.8	8 19	23 45.29	- 10 1.9	3.884	4.805	5.6	20.4
8 29	23 41.17	+ 10 11.6	3.758	4.685	5.5	18.7	8 29	23 41.25	- 10 38.8	3.831	4.804	3.6	20.3
9 8	23 36.55	+ 9 45.6	3.711	4.683	3.6	18.5	9 8	23 36.59	- 11 15.9	3.805	4.802	1.9	20.1
9 18	23 31.62	+ 9 11.7	3.691	4.681	2.4	18.5	9 18	23 31.65	- 11 50.5	3.809	4.801	2.1	20.2
9 28	23 26.79	+ 8 32.4	3.702	4.679	3.1	18.5	9 28	23 26.82	- 12 19.9	3.842	4.800	3.9	20.3
10 8	23 22.44	+ 7 50.4	3.741	4.677	4.8	18.6	10 8	23 22.49	- 12 42.2	3.904	4.799	5.9	20.4
10 18	23 18.92	+ 7 8.9	3.808	4.675	6.7	18.8	10 18	23 18.98	- 12 55.8	3.991	4.798	7.7	20.6
316834	2000 <i>CO</i> ₇₄		9 15.3 188°66'	0.1/15.2	18		254890	2005 <i>SV</i> ₄₁		9 15.3 33°75'	1.6/16.9	18	
8 9	23 54.13	- 0 50.7	2.749	3.570	10.9	22.0	8 9	23 55.75	+ 3 29.7	1.963	2.783	14.6	20.7
8 19	23 50.04	- 1 19.6	2.663	3.569	8.4	21.9	8 19	23 51.83	+ 3 24.0	1.886	2.787	11.6	20.5
8 29	23 44.54	- 1 57.5	2.601	3.568	5.5	21.7	8 29	23 45.97	+ 3 3.8	1.831	2.791	8.0	20.3
9 8	23 38.04	- 2 41.7	2.567	3.567	2.4	21.5	9 8	23 38.73	+ 2 31.3	1.800	2.795	4.1	20.1
9 18	23 31.08	- 3 28.5	2.561	3.565	0.9	21.3	9 18	23 30.86	+ 1 50.5	1.797	2.799	1.7	19.9
9 28	23 24.30	- 4 13.8	2.586	3.563	4.2	21.6	9 28	23 23.27	+ 1 6.6	1.821	2.804	4.9	20.2
10 8	23 18.28	- 4 53.4	2.638	3.561	7.2	21.8	10 8	23 16.80	+ 0 25.2	1.871	2.809	8.7	20.4
10 18	23 13.54	- 5 24.5	2.717	3.559	9.8	22.0	10 18	23 12.12	- 0 8.8	1.947	2.813	12.0	20.6
376400	2012 <i>FM</i> ₃₁		9 15.3 32°64'	9.4/10.7	16		433271	2013 <i>AH</i> ₅₆		9 15.3 221°09'	0.3/14.8	18	
8 9	0 4.87	- 20 45.7	0.977	1.870	20.5	19.3	8 9	23 48.75	- 3 12.0	4.620	5.439	6.8	21.8
8 19	0 0.01	- 21 27.5	0.951	1.891	16.2	19.1	8 19	23 45.40	- 3 28.9	4.530	5.436	5.2	21.7
8 29	23 51.64	- 22 1.1	0.943	1.913	12.0	19.0	8 29	23 41.26	- 3 50.1	4.466	5.433	3.4	21.6
9 8	23 41.09	- 22 14.9	0.954	1.936	9.5	19.0	9 8	23 36.58	- 4 13.8	4.430	5.430	1.4	21.4
9 18	23 30.07	- 22 1.3	0.988	1.961	10.3	19.1	9 18	23 31.66	- 4 38.3	4.424	5.427	0.7	21.3
9 28	23 20.38	- 21 17.6	1.043	1.987	13.4	19.4	9 28	23 26.82	- 5 1.5	4.448	5.424	2.7	21.5
10 8	23 13.35	- 20 7.4	1.118	2.014	17.0	19.7	10 8	23 22.40	- 5 21.4	4.502	5.420	4.6	21.6
10 18	23 9.59	- 18 36.6	1.211	2.041	20.2	20.0	10 18	23 18.68	- 5 36.5	4.583	5.417	6.3	21.8
425763	2011 <i>CU</i> ₁₈		9 15.3 184°50'	0.8/14									

EPHEMERIDES

9 15.3

9 15.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
17896	1999 <i>FW</i> ₄		9 15.3 128°01	1°0/14.5	18		521946	2015 <i>VZ</i> ₁₀₇		9 15.3 264°04	3°4/19.3	18	
8 9	0 1.98	- 2 57.7	1.502	2.349	17.0	18.4	8 9	23 54.95	+ 9 48.1	2.420	3.200	13.4	21.1
8 19	23 57.11	- 3 24.8	1.437	2.357	13.1	18.2	8 19	23 51.01	+ 9 53.9	2.322	3.189	11.0	20.9
8 29	23 49.67	- 4 5.1	1.392	2.365	8.5	18.0	8 29	23 45.38	+ 9 44.4	2.244	3.179	8.2	20.7
9 8	23 40.37	- 4 53.4	1.371	2.372	3.6	17.7	9 8	23 38.50	+ 9 19.9	2.191	3.168	5.3	20.5
9 18	23 30.27	- 5 42.7	1.377	2.379	2.1	17.6	9 18	23 30.96	+ 8 42.4	2.165	3.158	3.5	20.4
9 28	23 20.67	- 6 25.7	1.409	2.386	6.9	17.9	9 28	23 23.53	+ 7 55.7	2.168	3.147	4.7	20.5
10 8	23 12.71	- 6 56.3	1.467	2.393	11.5	18.2	10 8	23 16.95	+ 7 4.9	2.199	3.136	7.5	20.6
10 18	23 7.19	- 7 11.2	1.546	2.398	15.4	18.5	10 18	23 11.85	+ 6 15.3	2.255	3.125	10.5	20.8
359349	2009 <i>SG</i> ₂₄₈		9 15.3 312°67	0°8/16.9	15		126152	2001 <i>YO</i> ₁₃₈		9 15.3 173°39	7°5/ 7.4	18	
8 9	23 47.91	+ 3 8.7	4.006	4.807	8.1	21.3	8 9	23 56.73	- 18 10.3	1.687	2.561	14.2	20.0
8 19	23 44.93	+ 2 48.9	3.908	4.799	6.4	21.2	8 19	23 53.00	- 19 56.6	1.631	2.561	11.2	19.8
8 29	23 41.04	+ 2 21.3	3.835	4.791	4.4	21.0	8 29	23 46.94	- 21 43.5	1.597	2.561	8.5	19.6
9 8	23 36.51	+ 1 47.7	3.789	4.783	2.2	20.8	9 8	23 39.20	- 23 20.7	1.589	2.562	7.5	19.6
9 18	23 31.68	+ 1 10.0	3.772	4.775	0.9	20.7	9 18	23 30.72	- 24 38.5	1.606	2.562	8.8	19.7
9 28	23 26.94	+ 0 30.8	3.785	4.767	2.7	20.9	9 28	23 22.63	- 25 29.5	1.648	2.562	11.5	19.8
10 8	23 22.65	- 0 7.1	3.828	4.759	4.9	21.0	10 8	23 15.97	- 25 51.1	1.713	2.562	14.4	20.0
10 18	23 19.16	- 0 41.2	3.897	4.751	6.8	21.1	10 18	23 11.47	- 25 44.4	1.797	2.562	17.1	20.2
41029	1999 <i>UY</i> ₄₅		9 15.3 210°03	4°2/20.4	18		288942	2004 <i>SK</i> ₄₆		9 15.3 39°02	4°5/20.1	18	
8 9	23 55.07	+ 12 42.3	2.489	3.250	13.5	19.8	8 9	23 54.85	+ 11 32.7	1.975	2.760	15.8	20.1
8 19	23 51.02	+ 12 51.0	2.396	3.247	11.3	19.7	8 19	23 51.17	+ 11 45.1	1.901	2.768	13.0	20.0
8 29	23 45.33	+ 12 43.3	2.324	3.245	8.6	19.5	8 29	23 45.55	+ 11 38.0	1.846	2.777	9.9	19.8
9 8	23 38.44	+ 12 19.1	2.276	3.242	6.0	19.3	9 8	23 38.57	+ 11 12.1	1.814	2.787	6.6	19.6
9 18	23 30.96	+ 11 40.3	2.254	3.239	4.3	19.2	9 18	23 30.96	+ 10 29.6	1.807	2.796	4.5	19.5
9 28	23 23.63	+ 10 50.3	2.262	3.236	5.0	19.2	9 28	23 23.64	+ 9 35.6	1.828	2.806	5.5	19.6
10 8	23 17.16	+ 9 54.5	2.297	3.233	7.4	19.4	10 8	23 17.45	+ 8 36.6	1.876	2.817	8.4	19.8
10 18	23 12.15	+ 8 58.2	2.358	3.229	10.1	19.6	10 18	23 13.03	+ 7 39.1	1.948	2.827	11.5	20.0
179692	2002 <i>RO</i> ₁₇		9 15.3 27°65	0°6/14.8	18		380782	2005 <i>UT</i> ₅₁₃		9 15.3 278°38	0°1/15.2	15	
8 9	23 52.77	+ 0 13.1	1.041	1.919	20.6	19.5	8 9	23 51.83	- 1 20.0	3.323	4.142	9.2	22.9
8 19	23 50.77	- 0 35.2	0.994	1.931	15.9	19.3	8 19	23 48.15	- 1 42.6	3.215	4.120	7.1	22.7
8 29	23 45.80	- 1 46.0	0.965	1.944	10.3	19.0	8 29	23 43.28	- 2 12.6	3.132	4.098	4.7	22.5
9 8	23 38.75	- 3 11.4	0.957	1.959	4.3	18.7	9 8	23 37.53	- 2 47.9	3.077	4.077	2.0	22.3
9 18	23 30.89	- 4 40.2	0.971	1.974	2.1	18.7	9 18	23 31.34	- 3 25.7	3.051	4.055	0.8	22.2
9 28	23 23.70	- 5 59.8	1.008	1.991	7.9	19.1	9 28	23 25.19	- 4 2.7	3.055	4.032	3.6	22.4
10 8	23 18.46	- 7 0.6	1.068	2.009	13.2	19.4	10 8	23 19.61	- 4 35.8	3.088	4.010	6.3	22.5
10 18	23 15.95	- 7 37.6	1.147	2.028	17.6	19.8	10 18	23 15.04	- 5 2.3	3.147	3.987	8.7	22.7
127911	2003 <i>GG</i> ₂₇		9 15.3 65°25	0°1/15.3	18		173822	2001 <i>SJ</i> ₃₃₅		9 15.3 290°13	4°2/18.9	18	
8 9	23 57.21	- 0 30.6	1.992	2.823	14.1	20.5	8 9	23 58.68	+ 8 45.6	1.974	2.765	15.6	20.1
8 19	23 52.67	- 1 0.6	1.939	2.850	10.8	20.3	8 19	23 54.28	+ 9 16.4	1.882	2.757	12.8	19.9
8 29	23 46.33	- 1 42.1	1.909	2.877	7.0	20.1	8 29	23 47.74	+ 9 31.1	1.810	2.749	9.6	19.7
9 8	23 38.81	- 2 30.9	1.904	2.904	3.0	19.9	9 8	23 39.59	+ 9 29.4	1.762	2.741	6.3	19.5
9 18	23 30.88	- 3 21.9	1.928	2.931	1.1	19.8	9 18	23 30.58	+ 9 12.6	1.741	2.733	4.2	19.4
9 28	23 23.41	- 4 9.6	1.979	2.958	5.1	20.2	9 28	23 21.70	+ 8 44.2	1.747	2.725	5.7	19.4
10 8	23 17.16	- 4 48.9	2.058	2.985	8.6	20.4	10 8	23 13.95	+ 8 9.9	1.779	2.717	9.0	19.6
10 18	23 12.66	- 5 16.8	2.161	3.012	11.7	20.7	10 18	23 8.08	+ 7 35.3	1.836	2.709	12.4	19.8
440477	2005 <i>SK</i> ₂₈₈		9 15.3 266°71	5°9/ 8.9	18		477535	2010 <i>EZ</i> ₁₁₂		9 15.3 87°34	1°2/14.3	17	
8 9	23 57.66	- 19 0.2	2.156	3.016	12.1	21.1	8 9	23 58.98	- 4 3.4	1.831	2.674	14.6	21.8
8 19	23 53.21	- 19 59.9	2.088	3.010	9.5	20.9	8 19	23 54.32	- 4 30.5	1.767	2.687	11.2	21.6
8 29	23 46.84	- 20 58.5	2.043	3.004	7.1	20.8	8 29	23 47.59	- 5 7.6	1.726	2.699	7.2	21.4
9 8	23 39.10	- 21 49.2	2.024	2.999	5.9	20.7	9 8	23 39.43	- 5 49.9	1.710	2.711	3.0	21.1
9 18	23 30.75	- 22 25.8	2.032	2.993	6.8	20.7	9 18	23 30.69	- 6 31.8	1.721	2.723	2.0	21.1
9 28	23 22.70	- 22 43.7	2.067	2.987	9.1	20.9	9 28	23 22.37	- 7 7.6	1.760	2.735	6.1	21.4
10 8	23 15.80	- 22 40.8	2.126	2.982	11.8	21.0	10 8	23 15.37	- 7 32.6	1.826	2.747	9.9	21.6
10 18	23 10.67	- 22 17.8	2.206	2.976	14.2	21.2	10 18	23 10.34	- 7 44.3	1.915	2.759	13.2	21.9
35722	1999 <i>FM</i> ₄₁		9 15.3 94°41	4°4/18.7	18 R		398833	2013 <i>CH</i> ₁₀		9 15.3 198°08	2°8/18.1	18	
8 9	0 1.56	+ 8 26.4	1.416	2.229	19.6	18.9	8 9	23 58.34	+ 6 19.4	2.098	2.897	14.5	21.3
8 19	23 57.02	+ 8 47.6	1.350	2.239	16.0	18.7	8 19	23 53.78	+ 6 31.5	2.012	2.896	11.7	21.1
8 29	23 49.74	+ 8 46.3	1.301	2.249	11.7	18.4	8 29	23 47.27	+ 6 28.7	1.948	2.895	8.4	20.9
9 8	23 40.45	+ 8 22.9	1.274	2.259	7.2	18.2	9 8	23 39.34	+ 6 12.2	1.908	2.894	5.0	20.7
9 18	23 30.26	+ 7 40.6	1.272	2.268	4.4	18.1	9 18	23 30.70	+ 5 44.3	1.895	2.893	2.8	20.6
9 28	23 20.53	+ 6 46.4	1.296	2.278	6.6	18.3	9 28	23 22.27	+ 5 9.3	1.911	2.892	4.9	20.7
10 8	23 12.53	+ 5 49.2	1.344	2.287	10.8	18.5	10 8	23 14.93	+ 4 32.4	1.954	2.891	8.4	20.9
10 18	23 7.10	+ 4 57.1	1.415	2.296	14.8	18.8	10 18	23 9.34	+ 3 58.8	2.022	2.889	11.6	21.1
476022	2007 <i>RR</i> ₁₉₀		9 15.3 9°28	0°6/15.8	18		9603	1991 <i>VG</i> ₂		9 15.3 273°85	0°8/14.6	18	
8 9	23 55.04	- 1 1.2	1.194	2.063	19.1	20.3	8 9	23 57.16	- 1 34.9	1.632	2.479	15.9	18.8
8 19	23 52.33	- 0 50.6	1.135	2.066	14.9	20.1	8 19	23 53.57	- 2 13.9	1.540	2.461	12.4	18.5
8 29	23 46.79	- 0 55.9	1.094	2.070	10.0	19.8	8 29	23 47.53	- 3 8.9	1.470	2.443	8.2	18.2
9 8	23 39.21	- 1 13.4	1.075	2.075	4.5	19.5	9 8	23 39.58	- 4 15.5	1.423	2.424	3.4	17.9
9 18	23 30.72	- 1 37.5	1.078	2.082	1.4	19.3	9 18	23 30.58	- 5 26.6	1.402	2.405	1.9	17.8
9 28	23 22.75	- 2 1.2	1.106	2.091	6.9	19.7	9 28	23 21.69	- 6 33.9	1.408	2.386	6.9	18.0
10 8	23 16.58	- 2 17.7	1.156	2.101	12.0	20.1	10 8	23 14.08	- 7 29.4	1.440	2.367	11.6	18.3
10 18	23 13.04	- 2 22.4	1.227	2.112	16.3	20.3	10 18	23 8.66	- 8 7.8	1.494	2.347	15.8	18.5
271461	2004 <i>EG</i> ₇₃		9 15.3 204°76	0°4/15.7									

EPHEMERIDES

9 15.3

9 15.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
513465	2009 <i>BK</i> ₆₆		9 15.3 219°01	0°2/15.6	18		27684	1981 <i>EX</i> ₂₀		9 15.3 83°17	0°5/14.8	18	
8 9	23 55.81	+ 0 54.3	2.138	2.962	13.5	22.4	8 9	23 54.69	- 0 24.3	1.924	2.762	14.2	19.0
8 19	23 51.81	+ 0 19.8	2.050	2.957	10.5	22.2	8 19	23 51.02	- 1 15.9	1.856	2.772	10.9	18.8
8 29	23 45.96	- 0 28.2	1.986	2.952	7.0	22.0	8 29	23 45.44	- 2 21.3	1.810	2.781	7.1	18.6
9 8	23 38.77	- 1 26.3	1.947	2.946	3.1	21.7	9 8	23 38.54	- 3 35.5	1.790	2.791	3.0	18.4
9 18	23 30.91	- 2 29.5	1.936	2.940	1.0	21.5	9 18	23 31.08	- 4 52.1	1.797	2.800	1.5	18.3
9 28	23 23.25	- 3 31.9	1.953	2.933	5.0	21.8	9 28	23 23.94	- 6 3.9	1.833	2.810	5.6	18.6
10 8	23 16.58	- 4 27.4	1.999	2.926	8.8	22.0	10 8	23 17.95	- 7 4.7	1.895	2.819	9.4	18.9
10 18	23 11.58	- 5 11.6	2.069	2.919	12.1	22.2	10 18	23 13.73	- 7 50.3	1.981	2.829	12.7	19.1
523315	2017 <i>BB</i> ₁₂₈		9 15.3 352°77	0°2/15.6	18		243323	2008 <i>SO</i> ₃₆		9 15.3 305°89	0°2/14.9	17	
8 9	23 53.61	+ 0 22.6	2.244	3.073	12.8	21.3	8 9	23 47.95	- 2 7.3	4.175	4.996	7.5	20.5
8 19	23 49.99	- 0 6.3	2.163	3.072	9.9	21.2	8 19	23 44.93	- 2 33.6	4.084	4.991	5.7	20.4
8 29	23 44.69	- 0 47.1	2.104	3.071	6.6	21.0	8 29	23 41.04	- 3 5.4	4.018	4.985	3.7	20.3
9 8	23 38.19	- 1 36.5	2.072	3.071	2.9	20.7	9 8	23 36.56	- 3 40.7	3.980	4.980	1.6	20.1
9 18	23 31.14	- 2 30.1	2.067	3.071	1.0	20.6	9 18	23 31.80	- 4 17.3	3.972	4.975	0.7	20.0
9 28	23 24.29	- 3 22.6	2.090	3.071	4.7	20.8	9 28	23 27.13	- 4 52.5	3.993	4.970	2.9	20.2
10 8	23 18.40	- 4 8.9	2.141	3.070	8.2	21.1	10 8	23 22.90	- 5 24.1	4.044	4.964	5.0	20.3
10 18	23 14.02	- 4 45.0	2.217	3.070	11.3	21.3	10 18	23 19.43	- 5 50.1	4.122	4.959	6.8	20.5
425648	2010 <i>VL</i> ₂₀₆		9 15.3 68°14	1°3/14.5	17		332444	2007 <i>YT</i> ₅₅		9 15.3 237°69	2°7/17.5	18	
8 9	0 3.20	- 4 39.1	1.338	2.195	18.2	21.0	8 9	0 0.49	+ 5 6.3	1.648	2.465	17.1	20.9
8 19	23 58.29	- 4 49.1	1.279	2.205	14.0	20.7	8 19	23 56.07	+ 5 13.1	1.561	2.457	13.8	20.6
8 29	23 50.54	- 5 10.5	1.241	2.216	9.1	20.5	8 29	23 49.14	+ 5 2.0	1.493	2.449	9.8	20.4
9 8	23 40.78	- 5 38.1	1.225	2.226	3.8	20.2	9 8	23 40.29	+ 4 34.2	1.449	2.441	5.4	20.1
9 18	23 30.23	- 6 5.5	1.234	2.237	2.3	20.2	9 18	23 30.41	+ 3 53.2	1.431	2.432	2.7	19.9
9 28	23 20.30	- 6 25.8	1.270	2.248	7.4	20.5	9 28	23 20.73	+ 3 5.0	1.440	2.423	5.9	20.1
10 8	23 12.25	- 6 34.2	1.329	2.259	12.2	20.8	10 8	23 12.41	+ 2 16.8	1.474	2.414	10.4	20.3
10 18	23 6.89	- 6 28.1	1.411	2.270	16.2	21.1	10 18	23 6.36	+ 1 35.5	1.533	2.404	14.5	20.5
95709	2002 <i>LM</i> ₃		9 15.3 191°58	4°9/23.4	18		200449	2000 <i>WY</i> ₁₂		9 15.3 258°94	8°2/23.7	18	
8 9	23 53.28	+20 26.8	3.013	3.713	12.6	20.4	8 9	23 57.79	+21 29.7	2.080	2.794	17.2	20.7
8 19	23 49.40	+20 5.6	2.910	3.711	10.8	20.2	8 19	23 53.79	+22 9.2	1.973	2.777	15.1	20.5
8 29	23 44.15	+19 25.2	2.829	3.709	8.8	20.1	8 29	23 47.58	+22 25.9	1.884	2.759	12.7	20.3
9 8	23 37.93	+18 25.8	2.771	3.706	6.7	20.0	9 8	23 39.62	+22 16.6	1.816	2.741	10.3	20.1
9 18	23 31.25	+17 9.1	2.740	3.703	5.1	19.9	9 18	23 30.65	+21 40.0	1.772	2.722	8.5	20.0
9 28	23 24.71	+15 39.0	2.738	3.700	5.1	19.9	9 28	23 21.66	+20 38.5	1.754	2.703	8.4	20.0
10 8	23 18.91	+14 0.9	2.766	3.696	6.5	19.9	10 8	23 13.70	+19 18.3	1.761	2.684	10.1	20.0
10 18	23 14.34	+12 21.1	2.823	3.692	8.6	20.1	10 18	23 7.63	+17 48.0	1.793	2.664	12.7	20.1
42394	6111 <i>P-L</i>		9 15.3 18°87	0°1/15.4	18		116950	2004 <i>GL</i> ₇₅		9 15.3 173°65	6°0/7.8	18	
8 9	23 58.21	- 2 16.9	1.890	2.728	14.4	18.6	8 9	23 55.98	-18 19.2	2.233	3.094	11.7	19.7
8 19	23 53.77	- 2 12.7	1.817	2.732	11.2	18.4	8 19	23 51.88	-19 48.6	2.172	3.095	9.2	19.6
8 29	23 47.28	- 2 18.2	1.766	2.736	7.4	18.2	8 29	23 45.96	-21 18.0	2.135	3.096	6.9	19.4
9 8	23 39.34	- 2 30.5	1.741	2.741	3.2	17.9	9 8	23 38.77	-22 39.8	2.126	3.097	6.0	19.4
9 18	23 30.76	- 2 45.9	1.742	2.746	1.1	17.8	9 18	23 31.01	-23 47.1	2.144	3.098	7.0	19.4
9 28	23 22.52	- 3 0.0	1.771	2.752	5.4	18.1	9 28	23 23.53	-24 34.5	2.188	3.098	9.2	19.6
10 8	23 15.51	- 3 8.6	1.827	2.758	9.3	18.3	10 8	23 17.11	-24 59.5	2.257	3.099	11.7	19.7
10 18	23 10.41	- 3 8.9	1.906	2.764	12.7	18.6	10 18	23 12.37	-25 2.2	2.347	3.098	13.9	19.9
23539	1993 <i>TU</i> ₁₅		9 15.3 265°62	0°3/15.6	18		378017	2006 <i>SB</i> ₁₆₃		9 15.4 276°29	0°9/16.2	16	
8 9	23 54.29	+ 0 22.0	2.383	3.207	12.3	19.7	8 9	23 55.57	+ 3 20.6	1.521	2.359	17.3	22.0
8 19	23 50.50	- 0 3.5	2.289	3.196	9.6	19.5	8 19	23 52.45	+ 2 44.1	1.436	2.348	13.7	21.7
8 29	23 45.04	- 0 40.6	2.218	3.184	6.4	19.2	8 29	23 46.83	+ 1 46.1	1.371	2.338	9.3	21.4
9 8	23 38.38	- 1 26.2	2.174	3.173	2.8	19.0	9 8	23 39.31	+ 0 30.3	1.329	2.327	4.4	21.1
9 18	23 31.10	- 2 16.5	2.157	3.161	0.9	18.8	9 18	23 30.78	- 0 56.5	1.313	2.317	1.3	20.9
9 28	23 23.95	- 3 6.4	2.169	3.149	4.6	19.1	9 28	23 22.45	- 2 24.8	1.323	2.306	6.3	21.2
10 8	23 17.66	- 3 51.1	2.209	3.137	8.1	19.3	10 8	23 15.50	- 3 44.8	1.358	2.296	11.2	21.5
10 18	23 12.83	- 4 26.5	2.274	3.125	11.2	19.5	10 18	23 10.82	- 4 48.8	1.416	2.285	15.6	21.7
102765	1999 <i>VN</i> ₁₃₆		9 15.3 219°01	8°2/7.1	18		283846	2003 <i>UO</i> ₁₃₄		9 15.4 358°67	0°5/15.7	18	
8 9	0 0.99	-24 7.7	1.913	2.772	13.4	19.8	8 9	23 57.29	- 0 24.6	1.543	2.390	16.7	20.2
8 19	23 56.05	-25 21.4	1.855	2.770	11.0	19.6	8 19	23 53.58	- 0 27.9	1.470	2.388	13.0	20.0
8 29	23 48.84	-26 29.7	1.820	2.767	8.9	19.5	8 29	23 47.44	- 0 45.3	1.417	2.387	8.7	19.7
9 8	23 40.02	-27 23.9	1.810	2.765	8.2	19.5	9 8	23 39.51	- 1 13.6	1.387	2.386	3.9	19.5
9 18	23 30.53	-27 56.7	1.825	2.762	9.2	19.5	9 18	23 30.74	- 1 47.8	1.382	2.386	1.2	19.3
9 28	23 21.48	-28 3.7	1.864	2.759	11.4	19.7	9 28	23 22.30	- 2 21.6	1.404	2.387	6.1	19.6
10 8	23 13.85	-27 44.2	1.927	2.756	13.9	19.8	10 8	23 15.30	- 2 48.7	1.451	2.388	10.7	19.9
10 18	23 8.36	-27 0.5	2.010	2.753	16.2	20.0	10 18	23 10.56	- 3 4.6	1.520	2.389	14.7	20.1
473406	2015 <i>VY</i> ₁₀₁		9 15.3 339°54	2°2/17.9	18		99649	2002 <i>HG</i> ₁		9 15.4 203°97	2°6/12.9	18	
8 9	23 51.77	+ 7 21.0	2.123	2.929	14.2	20.9	8 9	23 58.92	- 7 44.4	1.926	2.775	13.7	19.5
8 19	23 48.74	+ 6 51.8	2.036	2.926	11.3	20.7	8 19	23 54.37	- 8 24.2	1.850	2.773	10.5	19.3
8 29	23 43.96	+ 6 4.6	1.970	2.922	8.1	20.5	8 29	23 47.72	- 9 11.7	1.797	2.771	6.8	19.1
9 8	23 37.93	+ 5 1.8	1.930	2.919	4.5	20.2	9 8	23 39.57	-10 1.3	1.769	2.768	3.3	18.9
9 18	23 31.27	+ 3 47.6	1.916	2.916	2.2	20.1	9 18	23 30.72	-10 47.0	1.769	2.765	3.4	18.9
9 28	23 24.81	+ 2 28.3	1.930	2.914	4.6	20.2	9 28	23 22.16	-11 22.9	1.797	2.762	6.9	19.1
10 8	23 19.31	+ 1 10.9	1.972	2.912	8.1	20.5	10 8	23 14.83	-11 44.5	1.851	2.759	10.6	19.3
10 18	23 15.39	+ 0 1.5	2.039	2.909	11.4	20.7	10 18	23 9.40	-11 50.1	1.928	2.755	13.8	19.5
179102	2001 <i>SH</i> ₂₀₆		9 15.3 308°97	0°1/15.4	18		218341	2004 <i>CQ</i>					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
265041	2003 <i>QB</i> ₇		9 15.4 322°58	0°7/16.1	18		219881	2002 <i>ES</i> ₃₂		9 15.4 268°54	1°4/12.6	18	
8 9	23 54.41	+ 0 42.8	1.997	2.830	14.0	20.3	8 9	23 49.58	- 9 20.9	4.341	5.178	6.9	20.0
8 19	23 50.94	+ 0 34.3	1.906	2.816	11.0	20.0	8 19	23 46.12	- 9 43.8	4.259	5.176	5.2	19.8
8 29	23 45.53	+ 0 13.3	1.837	2.803	7.4	19.8	8 29	23 41.80	-10 9.0	4.203	5.174	3.4	19.7
9 8	23 38.66	- 0 17.9	1.792	2.791	3.5	19.5	9 8	23 36.90	-10 34.3	4.175	5.172	1.7	19.6
9 18	23 31.04	- 0 55.2	1.774	2.778	1.1	19.3	9 18	23 31.74	-10 57.5	4.177	5.170	1.8	19.6
9 28	23 23.57	- 1 33.5	1.784	2.767	5.1	19.6	9 28	23 26.69	-11 16.5	4.208	5.168	3.5	19.7
10 8	23 17.13	- 2 7.5	1.820	2.755	9.0	19.8	10 8	23 22.10	-11 29.4	4.269	5.166	5.4	19.9
10 18	23 12.42	- 2 32.7	1.881	2.744	12.6	20.0	10 18	23 18.28	-11 35.2	4.355	5.164	7.0	20.0
148277	2000 <i>GV</i> ₅₈		9 15.4 139°92	1°4/14.1	17		174660	2003 <i>SW</i> ₂₀₉		9 15.4 190°41	1°1/16.3	18	
8 9	0 0.70	- 4 8.3	1.813	2.654	14.8	20.9	8 9	0 1.77	+ 1 35.7	1.656	2.483	16.6	20.6
8 19	23 55.75	- 4 41.3	1.744	2.662	11.4	20.7	8 19	23 56.94	+ 1 29.6	1.577	2.483	13.1	20.3
8 29	23 48.61	- 5 24.7	1.698	2.670	7.3	20.5	8 29	23 49.63	+ 1 8.1	1.518	2.482	8.9	20.1
9 8	23 39.94	- 6 13.6	1.677	2.678	3.1	20.3	9 8	23 40.48	+ 0 33.9	1.483	2.481	4.2	19.8
9 18	23 30.61	- 7 2.0	1.683	2.685	2.2	20.2	9 18	23 30.44	- 0 8.4	1.475	2.479	1.4	19.6
9 28	23 21.68	- 7 43.6	1.718	2.692	6.3	20.5	9 28	23 20.70	- 0 52.2	1.494	2.477	5.9	19.9
10 8	23 14.10	- 8 13.4	1.779	2.698	10.3	20.8	10 8	23 12.39	- 1 31.0	1.540	2.474	10.4	20.2
10 18	23 8.57	- 8 28.7	1.863	2.703	13.7	21.0	10 18	23 6.35	- 1 59.6	1.609	2.471	14.4	20.4
224857	2006 <i>YE</i> ₄₅		9 15.4 35°35	1°0/16.1	17		233925	2009 <i>UL</i> ₂		9 15.4 314°71	3°5/22.2	18	
8 9	23 55.88	+ 2 10.8	1.099	1.963	20.8	19.6	8 9	23 48.90	+16 10.5	4.077	4.798	9.2	19.5
8 19	23 53.02	+ 1 49.2	1.052	1.980	16.2	19.4	8 19	23 45.76	+16 17.8	3.970	4.788	7.8	19.4
8 29	23 47.23	+ 1 5.2	1.024	1.997	10.8	19.1	8 29	23 41.66	+16 13.7	3.885	4.778	6.3	19.2
9 8	23 39.41	+ 0 4.3	1.016	2.016	5.0	18.9	9 8	23 36.88	+15 58.3	3.825	4.769	4.7	19.1
9 18	23 30.83	- 1 4.8	1.031	2.035	1.5	18.7	9 18	23 31.75	+15 32.5	3.792	4.759	3.7	19.0
9 28	23 22.97	- 2 11.5	1.070	2.055	7.0	19.1	9 28	23 26.69	+14 58.2	3.787	4.750	3.8	19.0
10 8	23 17.08	- 3 6.3	1.132	2.077	12.2	19.5	10 8	23 22.09	+14 17.9	3.812	4.740	5.0	19.1
10 18	23 13.90	- 3 43.5	1.214	2.098	16.5	19.8	10 18	23 18.30	+13 34.9	3.863	4.731	6.6	19.2
399120	2014 <i>DL</i> ₁₂₂		9 15.4 263°66	0°1/15.2	17		324412	2006 <i>SL</i> ₂₁₉		9 15.4 65°89	0°6/15.8	17	
8 9	23 47.22	- 0 32.6	4.411	5.226	7.2	21.0	8 9	23 59.28	+ 1 13.6	1.330	2.178	18.8	21.0
8 19	23 44.35	- 1 10.6	4.316	5.219	5.5	20.9	8 19	23 55.28	+ 0 50.4	1.273	2.192	14.6	20.7
8 29	23 40.66	- 1 54.8	4.247	5.212	3.6	20.8	8 29	23 48.59	+ 0 8.5	1.235	2.205	9.7	20.5
9 8	23 36.41	- 2 43.2	4.206	5.205	1.5	20.6	9 8	23 40.00	- 0 47.3	1.220	2.219	4.4	20.2
9 18	23 31.89	- 3 33.4	4.195	5.198	0.6	20.5	9 18	23 30.65	- 1 49.7	1.229	2.233	1.3	20.1
9 28	23 27.45	- 4 22.7	4.214	5.191	2.7	20.7	9 28	23 21.88	- 2 49.7	1.264	2.247	6.6	20.5
10 8	23 23.43	- 5 8.6	4.263	5.184	4.7	20.8	10 8	23 14.86	- 3 39.5	1.324	2.262	11.5	20.8
10 18	23 20.10	- 5 48.8	4.340	5.177	6.5	21.0	10 18	23 10.39	- 4 13.6	1.405	2.276	15.6	21.1
213054	1999 <i>AW</i> ₁₅		9 15.4 212°24	1°9/13.3	18		405263	2003 <i>SQ</i> ₃₀₁		9 15.4 325°44	2°4/12.8	18	
8 9	23 55.86	- 5 30.2	2.054	2.901	13.1	20.6	8 9	23 50.03	- 4 39.6	1.755	2.619	14.2	19.7
8 19	23 51.89	- 6 17.7	1.977	2.899	10.0	20.4	8 19	23 47.95	- 5 45.1	1.659	2.591	10.9	19.5
8 29	23 46.05	- 7 14.7	1.922	2.897	6.5	20.2	8 29	23 43.78	- 7 5.6	1.585	2.564	7.1	19.2
9 8	23 38.85	- 8 15.8	1.894	2.894	2.9	20.0	9 8	23 38.00	- 8 34.9	1.536	2.538	3.3	18.9
9 18	23 31.01	- 9 15.3	1.894	2.892	2.7	20.0	9 18	23 31.32	-10 5.2	1.514	2.512	3.5	18.8
9 28	23 23.43	-10 6.9	1.921	2.890	6.3	20.2	9 28	23 24.71	-11 27.2	1.518	2.487	7.5	19.0
10 8	23 16.92	-10 45.6	1.975	2.887	9.8	20.4	10 8	23 19.15	-12 33.0	1.546	2.463	11.7	19.2
10 18	23 12.13	-11 8.8	2.053	2.884	13.0	20.6	10 18	23 15.47	-13 17.8	1.597	2.439	15.5	19.4
476958	2008 <i>XZ</i> ₄₁		9 15.4 296°95	2°0/16.9	17		106484	2000 <i>WV</i> ₂₂		9 15.4 328°76	2°6/17.6	18	
8 9	23 58.05	+ 3 22.7	1.721	2.546	16.2	21.9	8 9	23 52.54	+ 6 50.0	1.228	2.074	20.2	19.4
8 19	23 54.37	+ 3 26.5	1.610	2.514	13.0	21.6	8 19	23 50.62	+ 6 25.9	1.151	2.064	16.3	19.2
8 29	23 48.21	+ 3 14.0	1.520	2.481	9.2	21.3	8 29	23 45.90	+ 5 33.3	1.092	2.056	11.5	18.9
9 8	23 40.01	+ 2 46.4	1.453	2.448	4.9	21.0	9 8	23 39.01	+ 4 14.7	1.053	2.047	6.3	18.6
9 18	23 30.53	+ 2 6.6	1.412	2.415	2.1	20.7	9 18	23 30.97	+ 2 37.0	1.037	2.040	2.6	18.3
9 28	23 20.93	+ 1 20.4	1.398	2.382	6.0	20.9	9 28	23 23.19	+ 0 51.8	1.046	2.033	6.8	18.5
10 8	23 12.43	+ 0 34.9	1.409	2.348	10.8	21.1	10 8	23 17.04	- 0 47.7	1.078	2.026	12.2	18.8
10 18	23 6.04	- 0 3.2	1.444	2.315	15.2	21.3	10 18	23 13.50	- 2 10.7	1.131	2.021	17.0	19.1
401846	1999 <i>WN</i> ₅		9 15.4 201°28	4°9/ 9.2	18		366124	2012 <i>DN</i> ₅₂		9 15.4 280°59	0°6/14.6	18	
8 9	23 57.00	-18 7.8	2.551	3.404	10.7	21.4	8 9	23 52.42	- 0 31.3	2.210	3.045	12.7	21.2
8 19	23 52.42	-19 2.9	2.482	3.401	8.3	21.2	8 19	23 49.23	- 1 28.8	2.119	3.033	9.8	21.0
8 29	23 46.21	-19 57.3	2.437	3.399	6.1	21.1	8 29	23 44.32	- 2 40.1	2.050	3.021	6.4	20.8
9 8	23 38.87	-20 45.5	2.420	3.396	5.0	21.0	9 8	23 38.14	- 4 0.9	2.008	3.009	2.7	20.5
9 18	23 31.02	-21 22.3	2.430	3.393	5.7	21.0	9 18	23 31.31	- 5 25.3	1.994	2.997	1.5	20.4
9 28	23 23.43	-21 43.8	2.468	3.390	7.8	21.2	9 28	23 24.62	- 6 46.3	2.009	2.985	5.3	20.6
10 8	23 16.79	-21 48.1	2.532	3.386	10.1	21.3	10 8	23 18.83	- 7 57.7	2.051	2.972	9.0	20.8
10 18	23 11.65	-21 35.1	2.618	3.383	12.3	21.5	10 18	23 14.56	- 8 54.8	2.118	2.960	12.2	21.0
105506	2000 <i>RO</i> ₃		9 15.4 311°95	3°1/13.1	18		476142	2007 <i>TG</i> ₂₉₁		9 15.4 343°17	3°1/18.2	18	
8 9	0 3.82	-11 43.3	1.931	2.779	13.8	18.9	8 9	23 55.61	+ 7 11.2	1.722	2.536	16.6	21.2
8 19	23 58.19	-11 43.6	1.847	2.768	10.7	18.7	8 19	23 52.14	+ 7 11.0	1.640	2.533	13.4	21.0
8 29	23 50.28	-11 45.6	1.786	2.758	7.1	18.5	8 29	23 46.45	+ 6 51.4	1.579	2.531	9.7	20.7
9 8	23 40.71	-11 45.1	1.751	2.748	3.8	18.3	9 8	23 39.11	+ 6 13.8	1.541	2.529	5.7	20.5
9 18	23 30.35	-11 37.8	1.743	2.738	3.7	18.2	9 18	23 30.96	+ 5 21.8	1.528	2.527	3.1	20.3
9 28	23 20.28	-11 19.9	1.764	2.728	7.1	18.4	9 28	23 23.06	+ 4 21.7	1.542	2.525	5.5	20.5
10 8	23 11.53	-10 49.7	1.811	2.719	10.8	18.6	10 8	23 16.40	+ 3 21.2	1.581	2.524	9.5	20.7
10 18	23 4.86	-10 7.0	1.882	2.710	14.1	18.8	10 18	23 11.77	+ 2 27.1	1.645	2.523	13.3	21.0
442502	2011 <i>WJ</i> ₁₄		9 15.4 343°20	3°2/18.4	15		36247						

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
330891	2009 <i>RY</i> ₇₀		9 15.4 51°57'	0.3/15.2	17		481937	2009 <i>BC</i> ₁₅₅		9 15.4 36°80'	4.0/11.3	18	
8 9	23 58.03	- 0 11.9	1.278	2.135	18.9	21.2	8 9	23 55.96	-10 16.2	1.762	2.626	14.1	21.0
8 19	23 54.34	- 0 45.3	1.227	2.152	14.5	21.0	8 19	23 52.26	-11 22.1	1.697	2.629	10.8	20.8
8 29	23 47.96	- 1 36.7	1.196	2.170	9.5	20.8	8 29	23 46.42	-12 34.7	1.656	2.631	7.1	20.6
9 8	23 39.73	- 2 39.8	1.187	2.188	4.0	20.5	9 8	23 39.08	-13 46.7	1.639	2.634	4.3	20.5
9 18	23 30.79	- 3 46.5	1.203	2.206	1.6	20.4	9 18	23 31.07	-14 50.2	1.649	2.637	5.0	20.5
9 28	23 22.51	- 4 47.5	1.244	2.225	6.9	20.8	9 28	23 23.41	-15 38.4	1.685	2.640	8.3	20.7
10 8	23 16.02	- 5 35.0	1.308	2.244	11.7	21.2	10 8	23 17.05	-16 6.9	1.746	2.643	11.8	20.9
10 18	23 12.06	- 6 4.6	1.395	2.263	15.8	21.5	10 18	23 12.66	-16 14.3	1.829	2.646	14.9	21.2
251743	1998 <i>WO</i> ₂₄		9 15.4 296°39'	0.2/15.7	15		46056	2001 <i>DD</i> ₈₇		9 15.4 228°59'	6.1/21.1	18	
8 9	23 48.53	- 0 29.1	4.167	4.980	7.6	20.8	8 9	0 0.13	+14 43.4	2.089	2.841	16.0	19.4
8 19	23 45.40	- 0 48.4	4.070	4.971	5.9	20.7	8 19	23 55.40	+15 25.0	1.994	2.835	13.6	19.2
8 29	23 41.38	- 1 13.6	3.998	4.962	3.9	20.5	8 29	23 48.54	+15 48.1	1.920	2.829	10.8	19.1
9 8	23 36.76	- 1 43.1	3.953	4.952	1.7	20.4	9 8	23 40.05	+15 50.9	1.868	2.822	8.0	18.9
9 18	23 31.83	- 2 14.7	3.939	4.943	0.6	20.3	9 18	23 30.69	+15 33.6	1.842	2.816	6.2	18.8
9 28	23 26.99	- 2 46.2	3.954	4.933	2.8	20.4	9 28	23 21.43	+14 58.9	1.843	2.809	6.7	18.8
10 8	23 22.59	- 3 15.0	3.999	4.924	4.9	20.6	10 8	23 13.25	+14 12.5	1.871	2.802	9.1	18.9
10 18	23 18.96	- 3 39.1	4.071	4.915	6.8	20.7	10 18	23 6.93	+13 21.0	1.924	2.794	12.0	19.1
130185	2000 <i>AE</i> ₆₆		9 15.4 261°17'	4.5/20.2	17		447996	2008 <i>CO</i> ₁₉₉		9 15.4 114°82'	0.1/15.5	18	
8 9	23 58.55	+12 17.5	2.604	3.357	13.2	20.2	8 9	23 56.23	- 0 31.0	2.166	2.995	13.2	21.9
8 19	23 53.77	+12 51.2	2.497	3.343	11.0	20.0	8 19	23 52.06	- 0 53.0	2.090	2.999	10.2	21.7
8 29	23 47.25	+13 11.0	2.412	3.328	8.6	19.8	8 29	23 46.11	- 1 26.2	2.035	3.003	6.7	21.5
9 8	23 39.42	+13 16.1	2.351	3.313	6.2	19.6	9 8	23 38.91	- 2 7.3	2.007	3.006	2.9	21.3
9 18	23 30.85	+13 6.8	2.318	3.298	4.6	19.5	9 18	23 31.13	- 2 51.9	2.006	3.010	1.0	21.2
9 28	23 22.32	+12 45.3	2.313	3.283	5.3	19.5	9 28	23 23.62	- 3 34.8	2.034	3.014	4.9	21.5
10 8	23 14.58	+12 15.6	2.337	3.267	7.6	19.7	10 8	23 17.14	- 4 11.4	2.090	3.018	8.5	21.7
10 18	23 8.29	+11 42.3	2.387	3.251	10.2	19.8	10 18	23 12.29	- 4 38.0	2.170	3.021	11.6	21.9
23871	1998 <i>RC</i> ₇₆		9 15.4 46°97'	1.7/13.9	18		271005	2002 <i>XN</i> ₉₄		9 15.4 263°78'	0.9/16.2	18	
8 9	23 56.76	- 1 59.3	1.161	2.032	19.5	17.5	8 9	23 59.64	+ 1 27.6	1.748	2.576	15.8	21.5
8 19	23 53.48	- 3 1.7	1.120	2.054	14.8	17.3	8 19	23 55.42	+ 1 16.7	1.650	2.558	12.5	21.3
8 29	23 47.41	- 4 21.5	1.098	2.077	9.4	17.1	8 29	23 48.78	+ 0 50.3	1.574	2.538	8.6	21.0
9 8	23 39.48	- 5 50.0	1.099	2.101	3.9	16.9	9 8	23 40.23	+ 0 11.0	1.521	2.519	4.1	20.7
9 18	23 30.91	- 7 16.0	1.123	2.125	2.9	16.9	9 18	23 30.63	- 0 37.0	1.495	2.499	1.3	20.4
9 28	23 23.09	- 8 29.0	1.172	2.149	8.0	17.3	9 28	23 21.08	- 1 27.0	1.497	2.479	5.9	20.7
10 8	23 17.19	- 9 21.3	1.244	2.174	12.7	17.6	10 8	23 12.74	- 2 12.3	1.524	2.458	10.5	20.9
10 18	23 13.90	- 9 50.0	1.337	2.199	16.7	17.9	10 18	23 6.52	- 2 46.9	1.575	2.437	14.7	21.1
478160	2011 <i>UB</i> ₁₇₃		9 15.4 301°59'	3.5/18.3	17		270738	2002 <i>RL</i> ₉		9 15.4 5°45'	1.8/16.5	15	
8 9	23 57.23	+ 6 47.2	1.828	2.636	16.0	21.0	8 9	23 57.99	+ 0 30.9	1.100	1.966	20.7	20.0
8 19	23 53.51	+ 7 8.1	1.724	2.613	13.1	20.7	8 19	23 54.99	+ 0 57.9	1.038	1.965	16.3	19.7
8 29	23 47.50	+ 7 12.7	1.640	2.589	9.6	20.5	8 29	23 48.83	+ 1 7.5	0.993	1.966	11.2	19.4
9 8	23 39.66	+ 7 0.9	1.579	2.565	5.9	20.2	9 8	23 40.29	+ 1 1.8	0.969	1.968	5.5	19.1
9 18	23 30.75	+ 6 34.4	1.544	2.542	3.5	20.0	9 18	23 30.64	+ 0 45.2	0.967	1.971	2.0	18.9
9 28	23 21.83	+ 5 57.5	1.536	2.518	5.8	20.1	9 28	23 21.50	+ 0 24.8	0.989	1.975	7.2	19.3
10 8	23 13.99	+ 5 16.4	1.554	2.495	9.8	20.3	10 8	23 14.34	+ 0 8.2	1.032	1.980	12.6	19.6
10 18	23 8.13	+ 4 37.7	1.596	2.472	13.7	20.5	10 18	23 10.14	+ 0 1.2	1.096	1.987	17.4	19.9
403768	2011 <i>DF</i> ₂₆		9 15.4 322°49'	2.1/17.4	17		368102	2013 <i>CW</i> ₁₉₁		9 15.4 228°69'	0.3/15.9	15	
8 9	23 56.13	+ 3 59.6	2.203	3.013	13.6	20.7	8 9	23 50.93	- 0 34.6	4.808	5.612	6.8	21.7
8 19	23 52.07	+ 4 10.3	2.112	3.005	10.8	20.5	8 19	23 47.08	- 0 36.9	4.712	5.607	5.3	21.5
8 29	23 46.18	+ 4 8.4	2.043	2.998	7.6	20.3	8 29	23 42.42	- 0 43.8	4.641	5.602	3.5	21.4
9 8	23 38.95	+ 3 55.3	1.999	2.991	4.2	20.1	9 8	23 37.22	- 0 54.1	4.599	5.596	1.6	21.3
9 18	23 31.05	+ 3 33.4	1.983	2.984	2.1	19.9	9 18	23 31.76	- 1 6.3	4.587	5.591	0.5	21.1
9 28	23 23.30	+ 3 6.7	1.994	2.977	4.6	20.1	9 28	23 26.38	- 1 18.7	4.606	5.585	2.4	21.3
10 8	23 16.52	+ 2 39.6	2.033	2.970	8.1	20.3	10 8	23 21.40	- 1 29.7	4.655	5.579	4.3	21.5
10 18	23 11.35	+ 2 16.4	2.097	2.964	11.3	20.5	10 18	23 17.11	- 1 37.7	4.731	5.574	5.9	21.6
359603	2010 <i>WU</i> ₅		9 15.4 286°00'	1.7/12.1	18		146860	2002 <i>AL</i> ₁₄₉		9 15.4 111°61'	4.9/9.6	18	
8 9	23 49.44	-10 25.0	4.300	5.140	6.9	21.1	8 9	23 55.40	-14 42.4	2.136	2.998	12.1	20.5
8 19	23 46.06	-10 51.2	4.211	5.130	5.2	21.0	8 19	23 51.50	-15 55.4	2.073	3.001	9.3	20.3
8 29	23 41.80	-11 19.5	4.147	5.119	3.4	20.9	8 29	23 45.77	-17 10.7	2.034	3.003	6.6	20.1
9 8	23 36.94	-11 47.5	4.112	5.108	1.9	20.7	9 8	23 38.78	-18 21.4	2.021	3.006	4.9	20.0
9 18	23 31.79	-12 13.0	4.106	5.097	2.1	20.7	9 18	23 31.22	-19 20.8	2.035	3.008	5.8	20.1
9 28	23 26.73	-12 33.7	4.131	5.087	3.8	20.9	9 28	23 23.96	-20 3.6	2.077	3.010	8.3	20.3
10 8	23 22.13	-12 47.8	4.183	5.076	5.6	21.0	10 8	23 17.79	-20 26.6	2.143	3.013	11.1	20.4
10 18	23 18.28	-12 54.1	4.262	5.065	7.3	21.1	10 18	23 13.29	-20 29.4	2.231	3.015	13.6	20.6
100403	1996 <i>AD</i>		9 15.4 317°27'	18.6/24.5	18		220521	2004 <i>EF</i> ₇₀		9 15.4 99°42'	0.1/15.3	17	
8 9	0 2.03	+28 57.8	1.405	2.102	24.7	18.6	8 9	23 59.14	+ 0 21.1	1.627	2.465	16.4	20.8
8 19	23 58.96	+31 54.5	1.310	2.075	23.2	18.4	8 19	23 54.75	- 0 17.5	1.566	2.480	12.7	20.6
8 29	23 52.30	+34 30.7	1.230	2.048	21.5	18.2	8 29	23 48.07	- 1 11.9	1.525	2.495	8.3	20.4
9 8	23 42.25	+36 34.7	1.165	2.022	19.9	18.0	9 8	23 39.80	- 2 17.0	1.509	2.509	3.6	20.1
9 18	23 29.68	+37 54.6	1.118	1.996	18.8	17.8	9 18	23 30.88	- 3 26.0	1.519	2.523	1.3	20.0
9 28	23 16.29	+38 22.9	1.089	1.971	18.7	17.7	9 28	23 22.44	- 4 30.8	1.557	2.537	6.0	20.4
10 8	23 4.25	+38 0.9	1.078	1.947	19.6	17.7	10 8	23 15.45	- 5 24.8	1.621	2.550	10.3	20.6
10 18	22 55.48	+36 57.5	1.084	1.925	21.3	17.7	10 18	23 10.63	- 6 3.4	1.708	2.564	14.0	20.9
34684	2001 <i>CJ</i> ₂₈		9 15.4 325°35'	4.2/6.8	17		392223	200					

EPHEMERIDES

9 15.4

9 15.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
190248	2007 <i>EJ</i> ₁₈₂		9 15.4	99°26'	1°5'/17.2	18	117261	2004 <i>SS</i> ₅₇		9 15.4	319°44'	5°3'/21.8	18
8 9	23 54.69	+ 4 28.8	2.465	3.270	12.5	20.5	8 9	23 51.32	+16 21.2	2.094	2.854	15.8	19.4
8 19	23 50.64	+ 4 10.0	2.390	3.281	9.8	20.3	8 19	23 48.62	+16 11.4	1.997	2.843	13.4	19.2
8 29	23 45.07	+ 3 38.4	2.338	3.293	6.8	20.1	8 29	23 44.07	+15 38.1	1.918	2.832	10.6	19.0
9 8	23 38.44	+ 2 56.3	2.311	3.304	3.6	20.0	9 8	23 38.14	+14 41.1	1.862	2.822	7.6	18.8
9 18	23 31.36	+ 2 7.3	2.313	3.315	1.5	19.8	9 18	23 31.50	+13 22.7	1.831	2.812	5.5	18.7
9 28	23 24.52	+ 1 16.0	2.344	3.326	4.0	20.0	9 28	23 24.99	+11 48.3	1.827	2.803	5.8	18.7
10 8	23 18.59	+ 0 27.1	2.403	3.337	7.2	20.2	10 8	23 19.44	+10 5.9	1.851	2.793	8.4	18.8
10 18	23 14.06	- 0 15.3	2.487	3.348	10.0	20.4	10 18	23 15.54	+ 8 24.2	1.900	2.784	11.4	19.0
130925	2000 <i>WY</i> ₁₇		9 15.4	282°87'	3°3'/12.2	18 R	58255	1993 <i>RS</i> ₅		9 15.4	240°75'	1°6'/16.8	18
8 9	23 57.81	- 8 14.5	1.818	2.674	14.2	19.7	8 9	23 57.70	+ 4 25.3	1.519	2.349	17.7	18.6
8 19	23 53.99	- 9 10.1	1.719	2.646	10.9	19.5	8 19	23 54.11	+ 4 0.9	1.437	2.344	14.1	18.3
8 29	23 47.84	-10 16.1	1.643	2.618	7.2	19.2	8 29	23 47.98	+ 3 15.2	1.375	2.338	9.7	18.1
9 8	23 39.85	-11 26.4	1.591	2.589	3.9	18.9	9 8	23 39.92	+ 2 11.2	1.336	2.332	4.9	17.8
9 18	23 30.81	-12 33.4	1.567	2.560	4.3	18.9	9 18	23 30.87	+ 0 54.9	1.323	2.326	1.7	17.6
9 28	23 21.79	-13 28.9	1.569	2.531	8.1	19.1	9 28	23 22.06	- 0 24.9	1.336	2.320	6.1	17.8
10 8	23 13.89	-14 7.0	1.597	2.501	12.2	19.2	10 8	23 14.69	- 1 38.7	1.374	2.313	11.0	18.1
10 18	23 8.00	-14 24.1	1.647	2.471	16.0	19.4	10 18	23 9.63	- 2 39.2	1.435	2.307	15.2	18.3
223602	2004 <i>GK</i> ₈₄		9 15.4	190°65'	0°9'/14.5	17	522889	2016 <i>OP</i> ₈		9 15.4	0°72'	5°2'/11.2	18
8 9	23 55.34	- 2 44.1	1.861	2.698	14.7	21.6	8 9	23 58.87	-13 16.7	1.536	2.407	15.5	20.8
8 19	23 55.34	- 3 17.7	1.782	2.697	11.3	21.4	8 19	23 54.85	-14 7.9	1.473	2.407	11.9	20.6
8 29	23 48.47	- 4 3.2	1.725	2.696	7.4	21.2	8 29	23 48.32	-15 3.0	1.432	2.406	8.2	20.4
9 8	23 40.01	- 4 56.1	1.693	2.694	3.1	20.9	9 8	23 39.99	-15 53.9	1.414	2.406	5.4	20.2
9 18	23 30.80	- 5 50.6	1.689	2.692	1.8	20.8	9 18	23 30.87	-16 32.5	1.422	2.407	6.2	20.3
9 28	23 21.86	- 6 40.1	1.713	2.689	6.1	21.1	9 28	23 22.20	-16 52.5	1.455	2.407	9.5	20.4
10 8	23 14.18	- 7 18.8	1.764	2.685	10.2	21.3	10 8	23 15.08	-16 50.6	1.511	2.408	13.2	20.7
10 18	23 8.48	- 7 43.4	1.838	2.682	13.7	21.6	10 18	23 10.30	-16 26.9	1.588	2.409	16.6	20.9
4171	<i>Carrasco</i>		9 15.4	129°86'	0°6'/15.9	18	282289	2002 <i>PV</i> ₁₂₃		9 15.4	8°63'	5°0'/19.7	18
8 9	23 58.94	+ 2 26.4	1.509	2.345	17.5	17.3	8 9	23 51.72	+10 23.6	1.334	2.160	19.9	19.7
8 19	23 54.88	+ 1 49.1	1.441	2.353	13.7	17.0	8 19	23 49.70	+10 36.8	1.266	2.162	16.4	19.5
8 29	23 48.34	+ 0 52.3	1.392	2.359	9.2	16.8	8 29	23 45.13	+10 23.6	1.216	2.165	12.3	19.2
9 8	23 39.99	- 0 19.4	1.367	2.366	4.2	16.5	9 8	23 38.67	+ 9 44.5	1.187	2.169	8.0	19.0
9 18	23 30.83	- 1 38.7	1.368	2.372	1.2	16.3	9 18	23 31.32	+ 8 43.5	1.180	2.175	5.0	18.9
9 28	23 22.07	- 2 56.6	1.396	2.378	6.2	16.7	9 28	23 24.34	+ 7 28.5	1.197	2.182	6.6	19.0
10 8	23 14.86	- 4 4.3	1.449	2.383	10.9	17.0	10 8	23 18.88	+ 6 10.1	1.238	2.189	10.6	19.2
10 18	23 9.96	- 4 55.9	1.525	2.389	15.0	17.2	10 18	23 15.79	+ 4 58.0	1.301	2.199	14.7	19.5
407999	2012 <i>DP</i> ₈₂		9 15.4	190°66'	1°2'/13.7	18	201574	2003 <i>SQ</i> ₆₁		9 15.4	296°34'	2°4'/13.1	18
8 9	23 53.56	- 4 10.2	2.729	3.562	10.6	21.7	8 9	23 55.30	- 5 20.6	1.701	2.559	14.9	20.0
8 19	23 49.71	- 4 57.5	2.646	3.561	8.1	21.5	8 19	23 51.99	- 6 14.5	1.620	2.548	11.4	19.8
8 29	23 44.44	- 5 52.7	2.588	3.560	5.2	21.4	8 29	23 46.44	- 7 20.8	1.561	2.537	7.4	19.5
9 8	23 38.19	- 6 52.1	2.558	3.558	2.2	21.1	9 8	23 39.21	- 8 33.4	1.526	2.527	3.4	19.3
9 18	23 31.47	- 7 51.1	2.556	3.556	1.9	21.1	9 18	23 31.13	- 9 44.5	1.518	2.516	3.3	19.2
9 28	23 24.92	- 8 45.3	2.585	3.554	4.8	21.3	9 28	23 23.26	-10 46.0	1.536	2.506	7.4	19.5
10 8	23 19.14	- 9 30.4	2.641	3.552	7.7	21.5	10 8	23 16.63	-11 31.5	1.580	2.496	11.5	19.7
10 18	23 14.62	-10 3.9	2.723	3.549	10.3	21.7	10 18	23 12.04	-11 57.5	1.645	2.486	15.2	19.9
418915	2009 <i>BN</i> ₁₈₁		9 15.4	89°99'	1°6'/16.5	17	208155	2000 <i>GG</i> ₁₅₈		9 15.4	208°68'	3°0'/12.5	18
8 9	23 58.56	+ 1 46.4	1.362	2.199	19.0	20.7	8 9	23 58.92	+ 6 41.5	1.157	1.997	21.5	19.7
8 19	23 58.56	+ 1 52.6	1.299	2.210	14.9	20.5	8 19	23 55.63	+ 7 2.2	1.098	2.006	17.3	19.4
8 29	23 50.84	+ 1 41.4	1.256	2.221	10.2	20.3	8 29	23 48.49	+ 6 58.1	1.057	2.016	12.4	19.2
9 8	23 41.08	+ 1 15.7	1.235	2.232	5.0	20.0	9 8	23 40.00	+ 6 30.5	1.036	2.027	7.3	18.9
9 18	23 30.46	+ 0 40.6	1.240	2.243	1.8	19.8	9 18	23 30.88	+ 5 43.9	1.038	2.038	4.0	18.8
9 28	23 20.40	+ 0 3.2	1.270	2.254	6.5	20.2	9 28	23 22.01	+ 4 46.9	1.064	2.049	7.0	19.0
10 8	23 12.16	- 0 29.4	1.326	2.265	11.3	20.5	10 8	23 14.23	+ 3 49.8	1.112	2.061	11.8	19.3
10 18	23 6.59	- 0 51.6	1.403	2.275	15.5	20.8	10 18	23 8.16	+ 3 1.3	1.182	2.074	16.3	19.6
417430	2006 <i>KK</i> ₆₈		9 15.4	56°73'	6°1'/11.3	17	385606	2005 <i>EV</i> ₂₅₀		9 15.4	145°10'	2°3'/12.6	18
8 9	23 58.33	-13 45.0	1.214	2.093	18.3	20.4	8 9	23 55.56	- 5 28.2	2.156	3.001	12.7	20.6
8 19	23 58.33	-14 39.4	1.167	2.104	14.0	20.2	8 19	23 51.57	- 6 42.8	2.086	3.008	9.6	20.4
8 29	23 50.71	-15 36.8	1.140	2.116	9.6	19.9	8 29	23 45.82	- 8 7.2	2.041	3.015	6.1	20.2
9 8	23 41.00	-16 27.2	1.136	2.128	6.4	19.8	9 8	23 38.83	- 9 35.1	2.022	3.021	2.9	20.0
9 18	23 30.52	-17 1.1	1.155	2.141	7.2	19.9	9 18	23 31.30	-10 59.8	2.032	3.027	3.2	20.1
9 28	23 20.84	-17 11.7	1.199	2.153	10.9	20.1	9 28	23 24.04	-12 14.4	2.071	3.033	6.4	20.3
10 8	23 13.25	-16 57.1	1.264	2.166	14.9	20.4	10 8	23 17.82	-13 13.8	2.136	3.038	9.7	20.5
10 18	23 8.54	-16 19.1	1.349	2.179	18.5	20.7	10 18	23 13.22	-13 55.2	2.226	3.043	12.6	20.7
477895	2011 <i>KU</i> ₄		9 15.4	71°93'	6°5'/ 9.8	16	241678	2000 <i>QW</i> ₁₆₉		9 15.4	38°08'	4°0'/18.2	18
8 9	23 55.83	-16 49.1	1.605	2.474	15.1	21.2	8 9	23 58.92	+ 6 41.5	1.157	1.997	21.5	19.7
8 19	23 55.83	-17 59.0	1.559	2.488	11.7	21.1	8 19	23 55.52	+ 7 2.2	1.098	2.006	17.3	19.4
8 29	23 48.76	-19 8.5	1.535	2.503	8.4	20.9	8 29	23 49.08	+ 6 58.1	1.057	2.016	12.4	19.2
9 8	23 40.09	-20 8.5	1.535	2.517	6.6	20.8	9 8	23 40.41	+ 6 30.5	1.036	2.027	7.3	18.9
9 18	23 30.84	-20 51.2	1.561	2.532	7.5	20.9	9 18	23 30.75	+ 5 43.9	1.038	2.038	4.0	18.8
9 28	23 22.19	-21 11.1	1.612	2.546	10.3	21.1	9 28	23 21.67	+ 4 46.9	1.064	2.049	7.0	19.0
10 8	23 15.16	-21 6.7	1.687	2.561	13.4	21.4	10 8	23 14.54	+ 3 49.8	1.112	2.061	11.8	19.3
10 18	23 10.41	-20 39.5	1.782	2.575	16.2	21.6	10 18	23 10.27	+ 3 1.3	1.182	2.074	16.3	19.6
265427	2004 <i>UD</i> ₁₁		9 15.4	325°88'	5°1'/ 9.6	17	9295						

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
4610	Kájov		9 15.4	26°40'	2°2/13.5	18	78974	2003 SF ₃₀₇		9 15.4	310°46'	9°4/25.2	17
8 9	23 57.30	- 4 37.6	1.458	2.320	16.7	16.5	8 9	23 54.85	+24 29.2	2.178	2.872	17.0	19.0
8 19	23 53.75	- 5 26.9	1.392	2.322	12.8	16.3	8 19	23 51.62	+25 26.3	2.065	2.845	15.3	18.8
8 29	23 47.67	- 6 29.7	1.346	2.323	8.3	16.1	8 29	23 46.29	+26 1.7	1.968	2.818	13.3	18.6
9 8	23 39.75	- 7 39.1	1.324	2.325	3.6	15.8	9 8	23 39.25	+26 11.5	1.891	2.791	11.3	18.4
9 18	23 30.99	- 8 46.8	1.327	2.327	3.2	15.8	9 18	23 31.16	+25 53.4	1.836	2.765	9.8	18.3
9 28	23 22.64	- 9 43.9	1.356	2.329	7.7	16.0	9 28	23 22.97	+25 7.8	1.806	2.738	9.5	18.2
10 8	23 15.82	-10 23.9	1.409	2.331	12.2	16.3	10 8	23 15.68	+23 59.7	1.800	2.712	10.6	18.2
10 18	23 11.34	-10 43.5	1.484	2.334	16.1	16.6	10 18	23 10.16	+22 36.3	1.818	2.687	12.7	18.3
275452	2011 CU ₇₃		9 15.4	205°99'	0°4/15.0	18	483945	2006 BS ₁₂₄		9 15.4	192°63'	0°5/14.8	18
8 9	23 58.01	- 0 2.0	1.981	2.809	14.2	21.4	8 9	23 54.36	- 2 4.3	2.721	3.546	10.9	22.5
8 19	23 53.74	- 0 49.9	1.895	2.804	11.0	21.2	8 19	23 50.34	- 2 37.3	2.636	3.545	8.4	22.3
8 29	23 47.42	- 1 52.5	1.831	2.799	7.3	21.0	8 29	23 44.89	- 3 18.9	2.575	3.543	5.4	22.1
9 8	23 39.61	- 3 5.4	1.793	2.793	3.1	20.7	9 8	23 38.44	- 4 6.1	2.541	3.541	2.3	21.9
9 18	23 31.04	- 4 22.6	1.783	2.786	1.4	20.6	9 18	23 31.51	- 4 55.0	2.536	3.539	1.2	21.8
9 28	23 22.67	- 5 36.7	1.802	2.779	5.7	20.9	9 28	23 24.75	- 5 41.1	2.561	3.537	4.3	22.1
10 8	23 15.42	- 6 41.0	1.848	2.771	9.7	21.1	10 8	23 18.76	- 6 20.6	2.614	3.535	7.3	22.3
10 18	23 9.99	- 7 30.8	1.918	2.763	13.2	21.3	10 18	23 14.06	- 6 50.6	2.693	3.532	10.0	22.4
438098	2005 CS ₅₆		9 15.4	216°41'	9°1/1.6	18	363488	2003 SV ₄₀₀		9 15.4	348°38'	4°3/10.4	18
8 9	23 57.67	-26 39.9	2.167	3.023	12.2	21.4	8 9	23 51.54	-10 53.4	1.916	2.785	13.0	20.5
8 19	23 53.61	-29 12.7	2.112	3.017	10.3	21.3	8 19	23 48.82	-12 13.3	1.846	2.780	9.9	20.3
8 29	23 47.42	-31 40.9	2.084	3.009	9.2	21.2	8 29	23 44.20	-13 40.1	1.799	2.775	6.6	20.1
9 8	23 39.63	-33 53.6	2.082	3.002	9.4	21.2	9 8	23 38.22	-15 6.3	1.778	2.771	4.4	20.0
9 18	23 31.02	-35 41.5	2.107	2.994	10.8	21.3	9 18	23 31.58	-16 24.1	1.784	2.768	5.3	20.0
9 28	23 22.57	-36 58.4	2.157	2.986	12.7	21.4	9 28	23 25.19	-17 26.2	1.817	2.765	8.3	20.2
10 8	23 15.27	-37 42.7	2.228	2.977	14.8	21.5	10 8	23 19.89	-18 8.1	1.874	2.762	11.5	20.4
10 18	23 9.86	-37 55.9	2.316	2.967	16.5	21.7	10 18	23 16.31	-18 27.9	1.952	2.760	14.4	20.6
100256	1994 SU ₅		9 15.4	8°74'	0°5/15.9	18	309104	2006 WF ₇₁		9 15.4	334°42'	0°2/15.6	18
8 9	23 52.66	+ 1 59.1	1.864	2.700	14.7	19.8	8 9	23 55.75	- 0 22.8	1.845	2.684	14.7	21.0
8 19	23 49.67	+ 1 21.2	1.789	2.701	11.5	19.6	8 19	23 52.11	- 0 40.9	1.765	2.679	11.5	20.8
8 29	23 44.74	+ 0 27.3	1.734	2.702	7.7	19.4	8 29	23 46.42	- 1 12.2	1.706	2.675	7.6	20.5
9 8	23 38.43	- 0 38.5	1.705	2.704	3.5	19.2	9 8	23 39.20	- 1 53.1	1.671	2.671	3.4	20.3
9 18	23 31.47	- 1 50.6	1.702	2.706	1.0	19.0	9 18	23 31.25	- 2 38.8	1.663	2.667	1.1	20.1
9 28	23 24.77	- 3 1.7	1.726	2.708	5.3	19.3	9 28	23 23.53	- 3 23.2	1.682	2.663	5.5	20.4
10 8	23 19.19	- 4 5.0	1.777	2.711	9.3	19.5	10 8	23 16.98	- 4 0.6	1.728	2.660	9.6	20.6
10 18	23 15.36	- 4 55.2	1.852	2.715	12.8	19.8	10 18	23 12.30	- 4 26.7	1.797	2.657	13.2	20.9
342201	2008 SW ₂₁₈		9 15.4	25°73'	1°1/16.2	18	284527	2007 RU ₁₃₇		9 15.4	19°21'	1°5/16.7	18
8 9	23 59.38	+ 0 42.7	1.510	2.351	17.3	20.6	8 9	23 52.44	+ 3 45.0	1.288	2.142	19.0	20.1
8 19	23 55.27	+ 0 46.2	1.440	2.354	13.6	20.3	8 19	23 50.21	+ 3 21.3	1.229	2.149	14.9	19.8
8 29	23 48.64	+ 0 34.6	1.390	2.357	9.2	20.1	8 29	23 45.43	+ 2 35.4	1.189	2.158	10.2	19.6
9 8	23 40.18	+ 0 11.0	1.363	2.361	4.3	19.8	9 8	23 38.81	+ 1 31.5	1.170	2.168	5.0	19.3
9 18	23 30.87	- 0 20.3	1.362	2.366	1.4	19.6	9 18	23 31.40	+ 0 17.1	1.176	2.179	1.6	19.2
9 28	23 21.95	- 0 52.7	1.387	2.370	6.0	20.0	9 28	23 24.46	- 0 58.0	1.205	2.192	6.3	19.5
10 8	23 14.56	- 1 20.1	1.437	2.375	10.6	20.2	10 8	23 19.12	- 2 4.2	1.259	2.205	11.1	19.8
10 18	23 9.51	- 1 37.6	1.509	2.380	14.6	20.5	10 18	23 16.13	- 2 54.8	1.334	2.219	15.3	20.1
138231	2000 FK ₂₀		9 15.4	198°13'	1°8/13.2	18	487014	2014 ON ₄		9 15.4	348°30'	5°0/20.3	17
8 9	23 55.10	- 4 5.9	2.324	3.162	12.1	20.4	8 9	23 55.39	+11 52.5	1.986	2.768	15.8	20.9
8 19	23 51.18	- 5 15.1	2.241	3.159	9.2	20.2	8 19	23 51.80	+12 21.5	1.899	2.764	13.2	20.7
8 29	23 45.57	- 6 34.9	2.183	3.156	5.9	20.0	8 29	23 46.21	+12 32.1	1.832	2.760	10.2	20.5
9 8	23 38.76	- 8 0.1	2.152	3.152	2.6	19.7	9 8	23 39.12	+12 23.8	1.788	2.757	7.1	20.3
9 18	23 31.36	- 9 24.4	2.150	3.148	2.6	19.7	9 18	23 31.27	+11 57.7	1.768	2.754	5.1	20.2
9 28	23 24.15	-10 41.4	2.178	3.144	5.8	19.9	9 28	23 23.59	+11 17.8	1.776	2.751	5.9	20.2
10 8	23 17.86	-11 45.5	2.233	3.139	9.1	20.1	10 8	23 16.98	+10 29.9	1.810	2.750	8.7	20.4
10 18	23 13.07	-12 33.4	2.312	3.134	12.0	20.3	10 18	23 12.16	+ 9 40.6	1.868	2.748	11.8	20.6
259414	2003 QW ₇₃		9 15.4	27°74'	1°0/14.6	17	255179	2005 UD ₂₄₂		9 15.4	300°51'	2°2/17.7	18
8 9	23 53.18	+ 0 22.2	1.086	1.960	20.2	20.2	8 9	23 55.52	+ 5 24.1	2.135	2.942	14.1	20.8
8 19	23 51.18	- 0 40.3	1.033	1.968	15.6	20.0	8 19	23 51.71	+ 5 22.1	2.045	2.936	11.2	20.6
8 29	23 46.24	- 2 6.6	0.997	1.976	10.2	19.7	8 29	23 46.04	+ 5 5.4	1.977	2.930	8.0	20.4
9 8	23 39.19	- 3 48.2	0.983	1.985	4.2	19.4	9 8	23 39.02	+ 4 35.5	1.934	2.925	4.5	20.2
9 18	23 31.24	- 5 33.2	0.992	1.996	2.3	19.3	9 18	23 31.32	+ 3 55.4	1.918	2.919	2.2	20.0
9 28	23 23.85	- 7 8.0	1.025	2.006	8.1	19.7	9 28	23 23.78	+ 3 10.0	1.930	2.913	4.7	20.2
10 8	23 18.35	- 8 22.0	1.080	2.018	13.4	20.1	10 8	23 17.23	+ 2 24.6	1.969	2.908	8.2	20.4
10 18	23 15.54	- 9 9.6	1.155	2.030	17.9	20.4	10 18	23 12.33	+ 1 44.5	2.034	2.903	11.5	20.6
521836	2015 TY ₃₇₀		9 15.4	48°85'	0°3/15.7	18	167489	2003 YX ₇₀		9 15.4	340°56'	0°3/15.2	18
8 9	23 58.80	- 1 8.2	1.941	2.773	14.4	21.1	8 9	23 53.72	- 2 3.0	1.315	2.182	17.8	19.1
8 19	23 54.19	- 1 8.1	1.873	2.784	11.1	20.9	8 19	23 51.42	- 2 11.1	1.237	2.168	13.9	18.8
8 29	23 47.59	- 1 18.6	1.827	2.795	7.4	20.7	8 29	23 46.43	- 2 34.5	1.178	2.154	9.2	18.5
9 8	23 39.63	- 1 36.7	1.807	2.806	3.3	20.4	9 8	23 39.36	- 3 9.0	1.140	2.142	4.0	18.2
9 18	23 31.09	- 1 58.7	1.813	2.817	1.0	20.3	9 18	23 31.19	- 3 48.5	1.127	2.131	1.6	18.0
9 28	23 22.91	- 2 19.9	1.848	2.829	5.1	20.6	9 28	23 23.25	- 4 25.2	1.138	2.121	7.1	18.3
10 8	23 15.97	- 2 36.1	1.910	2.841	8.9	20.9	10 8	23 16.85	- 4 51.7	1.171	2.112	12.3	18.6
10 18	23 10.87	- 2 44.1	1.995	2.853	12.2	21.1	10 18	23 12.94	- 5 3.0	1.226	2.105	16.8	18.9
139118	2001 FZ ₆₀		9 15.4	103°94'	2°0/13.7	17	185208	2006 TU ₄₇		9 15.4	112°19'	1°5/14.2	17
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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
353361	2010 <i>XV</i> ₂₄		9 15.4 296°25	3°5/ 8.2	16		114029	2002 <i>VM</i> ₃		9 15.4 72°05	1°5/16.6	18	
8 9	23 48.95	-19 8.9	4.184	5.036	6.9	20.3	8 9	23 58.86	+ 3 3.3	1.485	2.321	17.8	19.9
8 19	23 45.80	-19 58.6	4.110	5.028	5.4	20.2	8 19	23 54.89	+ 2 50.2	1.419	2.328	14.0	19.7
8 29	23 41.73	-20 47.3	4.062	5.020	4.1	20.1	8 29	23 48.40	+ 2 18.5	1.371	2.336	9.6	19.5
9 8	23 37.03	-21 32.0	4.042	5.012	3.5	20.1	9 8	23 40.10	+ 1 31.5	1.347	2.344	4.7	19.2
9 18	23 32.04	-22 9.8	4.051	5.005	4.0	20.1	9 18	23 31.00	+ 0 34.9	1.348	2.352	1.6	19.0
9 28	23 27.14	-22 38.1	4.088	4.997	5.3	20.2	9 28	23 22.32	- 0 23.5	1.376	2.360	6.0	19.3
10 8	23 22.73	-22 55.4	4.151	4.989	6.8	20.3	10 8	23 15.19	- 1 15.8	1.428	2.368	10.6	19.6
10 18	23 19.13	-23 1.0	4.238	4.982	8.3	20.4	10 18	23 10.40	- 1 56.1	1.504	2.376	14.6	19.9
212334	2005 <i>SL</i> ₂₀₄		9 15.4 299°91	0°3/15.9	18		342511	2008 <i>UQ</i> ₁₈₆		9 15.4 17°84	0°8/16.2	18	
8 9	23 51.77	+ 0 36.3	2.950	3.767	10.3	20.9	8 9	23 55.79	+ 2 27.5	1.705	2.538	16.0	21.1
8 19	23 48.29	+ 0 13.0	2.860	3.763	8.0	20.7	8 19	23 52.29	+ 1 58.9	1.629	2.539	12.5	20.9
8 29	23 43.52	- 0 19.3	2.794	3.758	5.3	20.5	8 29	23 46.61	+ 1 13.0	1.574	2.539	8.5	20.7
9 8	23 37.85	- 0 58.5	2.755	3.754	2.4	20.3	9 8	23 39.32	+ 0 13.5	1.542	2.540	4.0	20.4
9 18	23 31.75	- 1 41.3	2.745	3.749	0.7	20.2	9 18	23 31.28	- 0 53.8	1.537	2.541	1.2	20.2
9 28	23 25.78	- 2 24.0	2.764	3.745	3.7	20.4	9 28	23 23.53	- 2 1.3	1.560	2.542	5.6	20.5
10 8	23 20.49	- 3 2.9	2.812	3.740	6.5	20.6	10 8	23 17.05	- 3 1.5	1.608	2.544	9.9	20.8
10 18	23 16.32	- 3 34.9	2.886	3.736	9.1	20.8	10 18	23 12.58	- 3 49.0	1.679	2.545	13.7	21.0
222847	2002 <i>EL</i> ₈₅		9 15.4 266°06	0°4/14.6	16		321314	2009 <i>HO</i> ₃₉		9 15.4 51°08	0°2/15.5	17	
8 9	23 47.63	- 2 52.5	4.532	5.354	6.9	20.1	8 9	23 58.14	+ 1 33.4	1.149	2.008	20.4	20.7
8 19	23 44.70	- 3 23.3	4.439	5.347	5.3	20.0	8 19	23 54.66	+ 0 51.0	1.105	2.031	15.7	20.5
8 29	23 40.97	- 3 59.1	4.372	5.340	3.4	19.9	8 29	23 48.32	- 0 12.9	1.080	2.054	10.3	20.3
9 8	23 36.70	- 4 37.9	4.333	5.333	1.4	19.7	9 8	23 40.04	- 1 31.4	1.077	2.078	4.5	20.0
9 18	23 32.16	- 5 17.5	4.324	5.326	0.8	19.6	9 18	23 31.10	- 2 54.4	1.098	2.102	1.5	19.9
9 28	23 27.70	- 5 55.5	4.345	5.319	2.8	19.8	9 28	23 22.91	- 4 11.1	1.143	2.126	7.1	20.4
10 8	23 23.65	- 6 29.6	4.395	5.312	4.7	19.9	10 8	23 16.69	- 5 12.3	1.212	2.151	12.1	20.7
10 18	23 20.28	- 6 58.1	4.473	5.305	6.4	20.1	10 18	23 13.14	- 5 53.1	1.302	2.176	16.3	21.0
389341	2009 <i>SF</i> ₃₅₅		9 15.4 251°35	0°6/14.1	16		342813	2008 <i>XE</i> ₆		9 15.4 346°70	3°0/13.5	18	
8 9	23 47.72	- 4 26.9	4.666	5.492	6.7	21.9	8 9	23 58.40	- 8 39.6	1.295	2.171	17.6	19.7
8 19	23 44.74	- 4 57.5	4.574	5.485	5.0	21.8	8 19	23 55.03	- 8 50.1	1.225	2.162	13.5	19.4
8 29	23 40.99	- 5 32.2	4.508	5.478	3.2	21.7	8 29	23 48.79	- 9 8.2	1.175	2.154	8.9	19.1
9 8	23 36.70	- 6 9.2	4.471	5.471	1.4	21.5	9 8	23 40.38	- 9 27.8	1.146	2.147	4.3	18.8
9 18	23 32.16	- 6 46.3	4.463	5.464	1.0	21.5	9 18	23 30.93	- 9 42.3	1.142	2.141	3.9	18.8
9 28	23 27.70	- 7 21.2	4.486	5.457	2.9	21.6	9 28	23 21.87	- 9 45.1	1.162	2.137	8.5	19.1
10 8	23 23.63	- 7 51.8	4.538	5.450	4.7	21.8	10 8	23 14.55	- 9 32.0	1.205	2.133	13.3	19.3
10 18	23 20.23	- 8 16.5	4.616	5.442	6.4	21.9	10 18	23 9.88	- 9 1.8	1.268	2.131	17.5	19.6
103079	1999 <i>XS</i> ₁₅₇		9 15.4 306°83	2°3/17.5	18		48228	2001 <i>KB</i> ₅₉		9 15.4 25°89	2°5/17.9	18	
8 9	23 54.56	+ 5 18.4	1.663	2.490	16.6	19.9	8 9	23 52.48	+ 7 24.2	1.533	2.360	17.7	17.9
8 19	23 51.61	+ 5 8.5	1.569	2.472	13.3	19.6	8 19	23 49.91	+ 6 54.5	1.467	2.368	14.2	17.7
8 29	23 46.35	+ 4 39.0	1.495	2.455	9.5	19.3	8 29	23 45.10	+ 6 1.5	1.419	2.377	10.0	17.5
9 8	23 39.28	+ 3 51.7	1.444	2.437	5.2	19.1	9 8	23 38.67	+ 4 48.5	1.394	2.386	5.5	17.3
9 18	23 31.22	+ 2 50.5	1.418	2.421	2.3	18.8	9 18	23 31.54	+ 3 21.8	1.395	2.396	2.5	17.1
9 28	23 23.25	+ 1 42.7	1.419	2.404	5.7	19.0	9 28	23 24.78	+ 1 50.6	1.421	2.407	5.5	17.3
10 8	23 16.48	+ 0 36.5	1.445	2.388	10.2	19.2	10 8	23 19.38	+ 0 24.5	1.473	2.418	9.8	17.6
10 18	23 11.78	- 0 20.7	1.494	2.372	14.4	19.5	10 18	23 16.05	- 0 48.7	1.548	2.430	13.7	17.9
118166	1981 <i>EG</i> ₂₂		9 15.4 119°36	0°4/15.8	17		252860	2002 <i>GB</i> ₁₇₉		9 15.4 56°34	2°6/13.6	17	
8 9	0 4.24	- 0 34.0	1.860	2.682	15.3	20.6	8 9	0 1.51	- 6 5.3	1.216	2.086	18.8	20.7
8 19	23 58.40	- 0 39.4	1.794	2.698	11.8	20.4	8 19	23 57.20	- 6 40.8	1.169	2.102	14.4	20.5
8 29	23 50.38	- 0 56.6	1.750	2.714	7.9	20.2	8 29	23 49.98	- 7 27.8	1.141	2.119	9.3	20.2
9 8	23 40.86	- 1 22.2	1.731	2.730	3.5	20.0	9 8	23 40.78	- 8 18.8	1.135	2.136	4.2	20.0
9 18	23 30.74	- 1 52.1	1.741	2.745	1.1	19.9	9 18	23 30.85	- 9 5.0	1.153	2.153	3.6	20.0
9 28	23 21.07	- 2 20.9	1.779	2.759	5.4	20.2	9 28	23 21.67	- 9 38.5	1.197	2.171	8.3	20.4
10 8	23 12.81	- 2 43.9	1.845	2.773	9.4	20.5	10 8	23 14.48	- 9 54.1	1.264	2.189	13.0	20.7
10 18	23 6.64	- 2 57.8	1.935	2.786	12.8	20.7	10 18	23 10.03	- 9 50.2	1.351	2.207	17.0	21.0
157399	2004 <i>TH</i> ₂₃₄		9 15.4 284°53	0°5/14.9	18		373171	2012 <i>DW</i> ₂₅		9 15.4 169°17	2°9/13.1	17	
8 9	23 55.48	- 2 17.8	2.259	3.093	12.5	20.7	8 9	0 2.81	- 7 53.4	1.635	2.487	15.7	21.7
8 19	23 51.54	- 2 40.3	2.173	3.086	9.7	20.5	8 19	23 57.76	- 8 32.4	1.566	2.490	12.0	21.5
8 29	23 45.86	- 3 12.6	2.110	3.079	6.3	20.3	8 29	23 50.23	- 9 19.8	1.518	2.492	7.8	21.2
9 8	23 38.93	- 3 51.4	2.072	3.073	2.7	20.0	9 8	23 40.91	- 10 9.1	1.495	2.494	3.8	21.0
9 18	23 31.38	- 4 32.5	2.063	3.066	1.3	19.9	9 18	23 30.78	- 10 53.5	1.499	2.496	3.8	21.0
9 28	23 24.01	- 5 10.8	2.082	3.060	5.0	20.1	9 28	23 21.06	- 11 25.9	1.530	2.497	7.7	21.3
10 8	23 17.59	- 5 42.1	2.129	3.054	8.5	20.3	10 8	23 12.87	- 11 42.1	1.586	2.497	11.8	21.5
10 18	23 12.71	- 6 3.0	2.200	3.047	11.6	20.5	10 18	23 6.98	- 11 40.3	1.665	2.498	15.4	21.7
269373	2008 <i>YT</i> ₁₇₂		9 15.4 12°76	3°0/12.5	18		300822	2007 <i>WE</i> ₅₆		9 15.4 245°74	4°8/ 9.9	18	
8 9	23 55.55	- 7 6.9	1.685	2.547	14.8	20.9	8 9	23 56.51	- 13 55.7	2.129	2.988	12.3	20.5
8 19	23 52.10	- 8 5.5	1.617	2.547	11.3	20.7	8 19	23 52.51	- 15 6.6	2.053	2.979	9.4	20.3
8 29	23 46.45	- 9 14.1	1.571	2.548	7.3	20.4	8 29	23 46.61	- 16 21.3	2.000	2.970	6.6	20.1
9 8	23 39.23	- 10 25.7	1.550	2.550	3.7	20.2	9 8	23 39.31	- 17 32.9	1.974	2.960	4.8	19.9
9 18	23 31.29	- 11 32.6	1.556	2.551	3.9	20.3	9 18	23 31.33	- 18 34.6	1.975	2.951	5.7	20.0
9 28	23 23.69	- 12 27.2	1.588	2.553	7.7	20.5	9 28	23 23.56	- 19 20.3	2.003	2.941	8.4	20.1
10 8	23 17.40	- 13 4.1	1.645	2.555	11.5	20.7	10 8	23 16.85	- 19 46.4	2.057	2.931	11.3	20.3
10 18	23 13.13	- 13 20.9	1.723	2.557	14.9	21.0	10 18	23 11.85	- 19 51.9	2.133	2.920	14.0	20.5
429665	2011 <i>GW</i> ₆₁		9 15.4 45°86	4°5/11.2	16		<						

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
225680	2001 <i>PO</i> ₆₀		9 15.4 14 ^o 17'	1.6/14.3	17		213902	2003 <i>UT</i> ₄₈		9 15.5 355 ^o 62'	8.3/9.3	18	
8 9	23 50.53	- 2 16.9	0.964	1.856	20.7	19.9	8 9	23 56.10	-16 2.8	1.086	1.983	18.5	19.1
8 19	23 49.41	- 2 57.1	0.917	1.862	15.9	19.6	8 19	23 53.71	-17 26.4	1.033	1.979	14.5	18.9
8 29	23 45.22	- 3 57.6	0.887	1.870	10.3	19.4	8 29	23 48.11	-18 53.2	1.000	1.976	10.6	18.6
9 8	23 38.83	- 5 9.8	0.877	1.880	4.3	19.1	9 8	23 40.15	-20 10.1	0.987	1.974	8.4	18.5
9 18	23 31.53	- 6 22.7	0.888	1.891	2.8	19.0	9 18	23 31.13	-21 4.5	0.996	1.972	9.7	18.6
9 28	23 24.86	- 7 24.4	0.922	1.905	8.5	19.4	9 28	23 22.70	-21 27.1	1.027	1.972	13.4	18.8
10 8	23 20.16	- 8 6.0	0.977	1.920	13.9	19.8	10 8	23 16.31	-21 15.3	1.078	1.973	17.4	19.1
10 18	23 18.24	- 8 23.5	1.050	1.936	18.4	20.1	10 18	23 12.88	-20 31.6	1.145	1.975	21.1	19.3
57573	2001 <i>TD</i> ₆₅		9 15.4 277 ^o 60'	1.7/13.6	18		511047	2013 <i>RY</i> ₇₄		9 15.5 344 ^o 65'	0.2/15.4	18	
8 9	23 56.15	- 5 18.7	2.026	2.873	13.3	19.4	8 9	23 57.46	- 3 17.5	1.063	1.942	20.3	20.9
8 19	23 52.25	- 5 57.2	1.947	2.869	10.2	19.2	8 19	23 54.92	- 2 59.9	0.994	1.930	15.9	20.6
8 29	23 46.43	- 6 44.9	1.891	2.865	6.6	19.0	8 29	23 49.09	- 2 55.9	0.942	1.920	10.6	20.3
9 8	23 39.23	- 7 37.2	1.860	2.861	2.9	18.7	9 8	23 40.68	- 3 2.0	0.910	1.912	4.7	19.9
9 18	23 31.37	- 8 28.3	1.857	2.857	2.5	18.7	9 18	23 30.92	- 3 12.7	0.900	1.905	1.7	19.7
9 28	23 23.74	- 9 12.3	1.882	2.853	6.1	18.9	9 28	23 21.53	- 3 20.9	0.913	1.899	8.0	20.1
10 8	23 17.19	- 9 44.6	1.933	2.849	9.8	19.1	10 8	23 14.11	- 3 19.9	0.948	1.894	13.7	20.4
10 18	23 12.38	-10 2.3	2.007	2.845	13.0	19.3	10 18	23 9.77	- 3 5.6	1.001	1.891	18.7	20.6
45589	2000 <i>CM</i> ₉₇		9 15.4 314 ^o 08'	0.2/15.3	18		128152	2003 <i>QW</i> ₇₉		9 15.5 25 ^o 85'	6.9/8.3	18	
8 9	23 54.21	- 1 9.0	2.141	2.976	13.1	18.5	8 9	23 53.36	-17 9.0	1.638	2.518	14.2	18.4
8 19	23 50.73	- 1 31.2	2.051	2.964	10.2	18.3	8 19	23 50.43	-18 42.9	1.596	2.531	11.1	18.2
8 29	23 45.44	- 2 4.7	1.983	2.952	6.7	18.0	8 29	23 45.33	-20 16.4	1.576	2.544	8.2	18.1
9 8	23 38.81	- 2 46.3	1.941	2.941	2.9	17.8	9 8	23 38.77	-21 39.8	1.581	2.559	6.9	18.0
9 18	23 31.51	- 3 31.6	1.926	2.930	1.1	17.6	9 18	23 31.63	-22 44.7	1.610	2.574	8.1	18.2
9 28	23 24.36	- 4 15.3	1.939	2.919	5.1	17.9	9 28	23 24.97	-23 24.9	1.665	2.590	10.7	18.3
10 8	23 18.16	- 4 52.2	1.979	2.909	8.8	18.1	10 8	23 19.71	-23 38.4	1.742	2.606	13.5	18.6
10 18	23 13.56	- 5 18.7	2.044	2.898	12.1	18.3	10 18	23 16.44	-23 26.4	1.839	2.623	16.1	18.8
479969	2014 <i>JF</i> ₃₆		9 15.4 154 ^o 31'	2.5/18.6	18 R		220943	2005 <i>JE</i> ₁₃₅		9 15.5 42 ^o 85'	2.8/13.4	17	
8 9	23 56.31	+ 8 38.4	2.471	3.252	13.1	22.1	8 9	23 58.94	- 5 28.2	1.098	1.977	19.8	19.7
8 19	23 52.00	+ 8 18.8	2.387	3.259	10.6	21.9	8 19	23 55.37	- 6 17.5	1.060	1.999	15.0	19.5
8 29	23 46.09	+ 7 43.6	2.325	3.266	7.6	21.7	8 29	23 48.83	- 7 19.9	1.041	2.021	9.6	19.2
9 8	23 39.04	+ 6 54.4	2.289	3.272	4.6	21.6	9 8	23 40.31	- 8 26.3	1.043	2.045	4.3	19.0
9 18	23 31.48	+ 5 54.6	2.281	3.278	2.5	21.4	9 18	23 31.15	- 9 26.5	1.069	2.069	3.9	19.1
9 28	23 24.13	+ 4 49.1	2.302	3.284	4.2	21.6	9 28	23 22.83	-10 11.4	1.119	2.094	8.7	19.4
10 8	23 17.69	+ 3 43.3	2.352	3.288	7.2	21.8	10 8	23 16.59	-10 35.5	1.191	2.119	13.4	19.8
10 18	23 12.70	+ 2 42.6	2.428	3.293	10.1	22.0	10 18	23 13.11	-10 37.4	1.283	2.144	17.4	20.1
184186	2004 <i>PZ</i> ₁		9 15.4 44 ^o 82'	0.6/16.0	18		94208	2001 <i>BA</i> ₂₉		9 15.5 263 ^o 44'	0.8/14.5	18	
8 9	23 58.79	- 0 18.0	1.975	2.803	14.3	19.8	8 9	23 54.92	- 2 39.5	2.380	3.213	12.0	20.2
8 19	23 54.23	- 0 15.3	1.902	2.810	11.1	19.6	8 19	23 51.12	- 3 15.2	2.286	3.199	9.3	20.0
8 29	23 47.70	- 0 23.7	1.852	2.817	7.4	19.4	8 29	23 45.63	- 4 0.9	2.215	3.185	6.0	19.8
9 8	23 39.77	- 0 40.4	1.826	2.824	3.4	19.2	9 8	23 38.92	- 4 53.0	2.171	3.171	2.6	19.6
9 18	23 31.23	- 1 2.0	1.828	2.832	1.1	19.0	9 18	23 31.56	- 5 47.2	2.155	3.157	1.5	19.5
9 28	23 23.01	- 1 23.8	1.858	2.839	5.0	19.3	9 28	23 24.33	- 6 37.9	2.167	3.143	5.1	19.7
10 8	23 15.98	- 1 41.6	1.914	2.847	8.8	19.6	10 8	23 17.95	- 7 20.6	2.208	3.128	8.5	19.9
10 18	23 10.77	- 1 51.8	1.995	2.855	12.1	19.8	10 18	23 13.02	- 7 51.6	2.273	3.114	11.5	20.1
483525	2003 <i>SB</i> ₂₂₇		9 15.4 105 ^o 32'	0.4/15.0	18		320091	2007 <i>EF</i> ₉₆		9 15.5 346 ^o 53'	1.7/17.4	18	
8 9	0 0.08	- 3 51.1	2.406	3.231	12.1	21.2	8 9	23 52.07	+ 5 28.8	1.989	2.807	14.6	20.1
8 19	23 54.85	- 3 51.1	2.329	3.238	9.3	21.0	8 19	23 49.20	+ 5 0.4	1.905	2.803	11.6	19.8
8 29	23 47.93	- 3 57.8	2.276	3.244	6.1	20.8	8 29	23 44.50	+ 4 14.3	1.841	2.799	8.1	19.6
9 8	23 39.83	- 4 8.7	2.250	3.250	2.6	20.6	9 8	23 38.44	+ 3 13.5	1.803	2.796	4.3	19.4
9 18	23 31.23	- 4 20.5	2.253	3.256	1.2	20.5	9 18	23 31.73	+ 2 2.4	1.790	2.793	1.7	19.2
9 28	23 22.89	- 4 30.0	2.285	3.262	4.7	20.8	9 28	23 25.22	+ 0 47.8	1.806	2.790	4.8	19.4
10 8	23 15.56	- 4 34.2	2.346	3.268	7.9	21.0	10 8	23 19.72	- 0 23.4	1.848	2.788	8.6	19.6
10 18	23 9.80	- 4 30.9	2.432	3.274	10.8	21.2	10 18	23 15.87	- 1 25.0	1.915	2.787	12.0	19.9
220778	2004 <i>TY</i> ₁₃₈		9 15.4 256 ^o 07'	3.7/19.6	18		119851	2002 <i>CG</i> ₆₂		9 15.5 237 ^o 12'	5.4/8.9	18	
8 9	23 56.29	+10 8.3	2.320	3.098	13.9	20.6	8 9	23 56.66	-17 28.5	2.264	3.122	11.6	20.1
8 19	23 52.20	+10 21.7	2.230	3.095	11.5	20.4	8 19	23 52.51	-18 36.6	2.194	3.117	9.1	19.9
8 29	23 46.35	+10 19.4	2.160	3.093	8.6	20.2	8 29	23 46.55	-19 45.1	2.149	3.112	6.7	19.7
9 8	23 39.21	+10 1.6	2.115	3.090	5.7	20.0	9 8	23 39.30	-20 47.4	2.129	3.107	5.5	19.6
9 18	23 31.42	+ 9 30.2	2.097	3.087	3.8	19.9	9 18	23 31.46	-21 37.3	2.138	3.101	6.3	19.7
9 28	23 23.79	+ 8 49.0	2.107	3.085	4.9	20.0	9 28	23 23.86	-22 9.7	2.173	3.096	8.6	19.8
10 8	23 17.09	+ 8 3.0	2.144	3.082	7.7	20.1	10 8	23 17.29	-22 22.2	2.233	3.090	11.2	20.0
10 18	23 11.94	+ 7 17.6	2.207	3.079	10.6	20.3	10 18	23 12.37	-22 14.5	2.314	3.084	13.6	20.2
437298	2013 <i>BR</i> ₆₄		9 15.5 291 ^o 15'	0.8/13.8	15		246693	2009 <i>AL</i> ₂₁		9 15.5 298 ^o 10'	0.8/16.1	18	
8 9	23 48.77	- 5 37.3	4.272	5.102	7.1	21.4	8 9	23 57.47	+ 0 54.6	1.728	2.563	15.7	21.0
8 19	23 45.63	- 6 4.0	4.185	5.098	5.4	21.3	8 19	23 53.71	+ 0 45.0	1.642	2.553	12.4	20.8
8 29	23 41.63	- 6 34.7	4.123	5.094	3.5	21.1	8 29	23 47.67	+ 0 20.6	1.577	2.543	8.4	20.5
9 8	23 37.05	- 7 7.2	4.089	5.090	1.5	21.0	9 8	23 39.90	- 0 15.5	1.535	2.534	3.9	20.2
9 18	23 32.19	- 7 39.2	4.086	5.086	1.2	21.0	9 18	23 31.24	- 0 58.9	1.520	2.524	1.2	20.0
9 28	23 27.43	- 8 8.5	4.112	5.081	3.2	21.1	9 28	23 22.77	- 1 43.3	1.532	2.515	5.7	20.3
10 8	23 23.11	- 8 32.8	4.167	5.077	5.1	21.3	10 8	23 15.53	- 2 22.2	1.570	2.506	10.1	20.5
10 18	23 19.54	- 8 50.6	4.249	5.073	6.9	21.4	10 18	23 10.35	- 2 50.6	1.631	2.497	14.0	20.7
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EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
509574	2008 <i>CE</i> ₉₈		9 15.5 103°45	0°9/14.4	18		310027	2010 <i>AH</i> ₉₅		9 15.5 231°70	2°8/21.6	18	
8 9	23 57.18	- 3 26.4	2.197	3.032	12.8	22.0	8 9	23 49.05	+14 25.7	4.737	5.463	8.0	20.4
8 19	23 52.78	- 3 58.2	2.128	3.043	9.8	21.8	8 19	23 45.82	+14 29.1	4.634	5.459	6.7	20.3
8 29	23 46.65	- 4 39.0	2.083	3.054	6.3	21.6	8 29	23 41.77	+14 23.1	4.554	5.455	5.2	20.2
9 8	23 39.33	- 5 24.9	2.065	3.065	2.7	21.4	9 8	23 37.16	+14 8.1	4.500	5.451	3.8	20.1
9 18	23 31.50	- 6 10.8	2.074	3.076	1.7	21.3	9 18	23 32.28	+13 44.9	4.474	5.447	2.9	20.0
9 28	23 23.98	- 6 52.0	2.112	3.087	5.2	21.6	9 28	23 27.46	+13 15.3	4.477	5.443	3.1	20.0
10 8	23 17.52	- 7 23.9	2.177	3.097	8.6	21.8	10 8	23 23.03	+12 41.3	4.509	5.439	4.2	20.1
10 18	23 12.67	- 7 44.1	2.267	3.108	11.6	22.0	10 18	23 19.30	+12 5.6	4.569	5.435	5.7	20.2
443677	2015 <i>KP</i> ₈		9 15.5 29°15	1°2/14.5	18		13822	Stevedodson		9 15.5 348°60	3°1/17.7	18	R
8 9	23 57.09	- 3 22.6	1.411	2.273	17.2	20.6	8 9	23 53.49	+ 4 48.5	1.103	1.963	21.1	17.8
8 19	23 53.60	- 3 47.5	1.353	2.282	13.2	20.4	8 19	23 51.72	+ 5 2.6	1.033	1.955	17.0	17.5
8 29	23 47.60	- 4 25.4	1.315	2.291	8.6	20.2	8 29	23 46.92	+ 4 52.7	0.980	1.947	12.1	17.2
9 8	23 39.83	- 5 10.9	1.300	2.302	3.6	19.9	9 8	23 39.76	+ 4 19.9	0.947	1.942	6.7	16.9
9 18	23 31.33	- 5 56.9	1.310	2.313	2.1	19.9	9 18	23 31.36	+ 3 29.3	0.935	1.937	3.1	16.7
9 28	23 23.33	- 6 36.1	1.346	2.325	6.9	20.2	9 28	23 23.28	+ 2 29.7	0.946	1.933	7.1	16.9
10 8	23 16.93	- 7 2.4	1.406	2.338	11.4	20.5	10 8	23 16.99	+ 1 32.1	0.978	1.931	12.5	17.2
10 18	23 12.86	- 7 12.8	1.487	2.351	15.3	20.8	10 18	23 13.55	+ 0 45.7	1.031	1.931	17.4	17.5
257997	2001 <i>EU</i> ₇		9 15.5 68°97	2°3/13.5	17		514436	2016 <i>UU</i> ₂₃		9 15.5 287°27	4°2/11.8	18	
8 9	0 0.62	- 3 25.0	1.360	2.217	17.9	20.2	8 9	0 0.71	-12 51.4	1.848	2.705	13.9	21.3
8 19	23 56.11	- 4 38.5	1.320	2.248	13.5	20.0	8 19	23 55.97	-13 27.4	1.776	2.702	10.7	21.1
8 29	23 49.07	- 5 5.6	1.302	2.278	8.6	19.8	8 29	23 49.00	-14 6.6	1.727	2.699	7.3	20.9
9 8	23 40.38	- 6 37.5	1.307	2.308	3.7	19.6	9 8	23 40.44	-14 42.6	1.703	2.696	4.5	20.7
9 18	23 31.19	- 7 4.1	1.338	2.338	3.3	19.7	9 18	23 31.17	-15 9.3	1.706	2.693	5.0	20.7
9 28	23 22.74	- 8 16.1	1.396	2.367	7.7	20.0	9 28	23 22.24	-15 21.5	1.736	2.690	8.1	20.9
10 8	23 16.09	- 9 7.5	1.478	2.396	12.0	20.4	10 8	23 14.63	-15 16.4	1.791	2.688	11.6	21.1
10 18	23 11.87	- 11 36.2	1.581	2.425	15.6	20.7	10 18	23 9.07	-14 53.8	1.869	2.685	14.7	21.3
479000	2012 <i>XK</i> ₁₃₇		9 15.5 296°32	4°6/11.8	18		401286	2012 <i>DE</i> ₃₂		9 15.5 269°67	0°4/14.9	18	
8 9	0 0.59	-12 43.1	1.678	2.541	14.8	21.3	8 9	23 52.47	+ 0 35.8	2.324	3.152	12.4	20.8
8 19	23 56.32	-13 20.5	1.591	2.520	11.5	21.0	8 19	23 49.28	- 0 25.6	2.232	3.142	9.6	20.6
8 29	23 49.52	-14 2.4	1.526	2.499	7.9	20.8	8 29	23 44.46	- 1 41.1	2.165	3.133	6.3	20.3
9 8	23 40.77	-14 42.0	1.485	2.479	5.0	20.5	9 8	23 38.44	- 3 6.4	2.123	3.124	2.7	20.1
9 18	23 30.98	-15 12.2	1.470	2.458	5.5	20.5	9 18	23 31.83	- 4 36.0	2.111	3.114	1.2	20.0
9 28	23 21.36	-15 26.2	1.482	2.438	9.0	20.7	9 28	23 25.35	- 6 2.9	2.128	3.105	5.0	20.2
10 8	23 13.09	-15 20.4	1.517	2.418	13.0	20.9	10 8	23 19.73	- 7 20.9	2.172	3.095	8.5	20.4
10 18	23 7.09	-14 53.9	1.574	2.398	16.6	21.1	10 18	23 15.54	- 8 25.3	2.242	3.086	11.6	20.6
513988	2014 <i>HY</i> ₁₀		9 15.5 232°83	5°7/ 9.4	18		255585	2006 <i>NZ</i>		9 15.5 41°78	7°1/10.7	17	
8 9	0 1.54	-18 22.0	2.234	3.084	12.1	22.6	8 9	0 0.42	-14 23.9	1.092	1.982	19.0	18.9
8 19	23 56.36	-19 20.0	2.154	3.072	9.5	22.4	8 19	23 56.71	-15 35.6	1.054	1.996	14.6	18.7
8 29	23 49.16	-20 17.8	2.099	3.059	7.1	22.3	8 29	23 49.84	-16 49.7	1.035	2.012	10.2	18.5
9 8	23 40.49	-21 8.6	2.069	3.045	5.7	22.2	9 8	23 40.83	-17 54.2	1.038	2.028	7.3	18.4
9 18	23 31.10	-21 46.2	2.068	3.031	6.5	22.2	9 18	23 31.09	-18 38.3	1.063	2.045	8.3	18.6
9 28	23 21.93	-22 5.7	2.094	3.016	8.9	22.3	9 28	23 22.23	-18 54.9	1.111	2.062	11.9	18.8
10 8	23 13.88	-22 4.8	2.145	3.001	11.6	22.5	10 8	23 15.55	-18 42.3	1.179	2.080	15.9	19.1
10 18	23 7.63	-21 43.8	2.218	2.985	14.2	22.6	10 18	23 11.80	-18 3.2	1.267	2.099	19.3	19.4
33425	1999 <i>DP</i> ₂		9 15.5 326°18	5°7/11.5	18		37894	1998 <i>FE</i> ₆₂		9 15.5 326°06	1°7/14.6	18	
8 9	23 53.60	- 9 53.6	1.033	1.930	19.2	17.3	8 9	0 4.51	- 7 56.1	1.397	2.256	17.4	17.2
8 19	23 52.15	-10 55.7	0.961	1.910	14.9	16.9	8 19	23 59.80	- 7 34.4	1.314	2.240	13.6	16.9
8 29	23 47.42	-12 11.5	0.907	1.891	10.1	16.6	8 29	23 52.06	- 7 17.6	1.250	2.225	9.0	16.6
9 8	23 40.05	-13 30.6	0.874	1.872	6.1	16.3	9 8	23 41.97	- 7 2.0	1.210	2.211	4.0	16.3
9 18	23 31.21	-14 39.8	0.862	1.855	7.0	16.3	9 18	23 30.63	- 6 43.1	1.195	2.197	2.6	16.2
9 28	23 22.62	-15 26.5	0.872	1.839	11.9	16.5	9 28	23 19.54	- 6 16.8	1.205	2.184	7.7	16.4
10 8	23 15.94	-15 42.8	0.901	1.824	17.2	16.8	10 8	23 10.14	- 5 40.4	1.241	2.171	12.7	16.7
10 18	23 12.35	-15 26.7	0.948	1.811	21.9	17.0	10 18	23 3.49	- 4 52.8	1.297	2.160	17.1	16.9
487924	2015 <i>TN</i> ₂₀₆		9 15.5 246°68	5°5/23.5	18		468796	2012 <i>FD</i> ₄₄		9 15.5 104°27	0°3/15.2	17	
8 9	23 53.12	+20 7.8	2.644	3.356	13.9	21.0	8 9	0 1.70	- 1 16.1	1.546	2.388	16.9	21.6
8 19	23 49.69	+19 59.2	2.539	3.347	12.0	20.9	8 19	23 56.97	- 1 38.6	1.483	2.399	13.1	21.4
8 29	23 44.68	+19 30.0	2.453	3.337	9.8	20.7	8 29	23 49.76	- 2 15.2	1.440	2.411	8.6	21.2
9 8	23 38.52	+18 39.4	2.390	3.328	7.5	20.5	9 8	23 40.79	- 3 1.3	1.421	2.422	3.7	20.9
9 18	23 31.78	+17 29.0	2.354	3.318	5.8	20.4	9 18	23 31.09	- 3 50.6	1.429	2.433	1.4	20.8
9 28	23 25.13	+16 2.5	2.345	3.308	5.7	20.4	9 28	23 21.86	- 4 35.9	1.463	2.443	6.3	21.2
10 8	23 19.29	+14 26.0	2.365	3.297	7.4	20.5	10 8	23 14.22	- 5 11.1	1.523	2.454	10.8	21.4
10 18	23 14.80	+12 46.5	2.411	3.287	9.7	20.6	10 18	23 8.90	- 5 32.1	1.606	2.464	14.6	21.7
510043	2010 <i>DC</i> ₇₆		9 15.5 115°44	0°6/16.2	18		38600	1999 <i>XR</i> ₂₁₃		9 15.5 239°56	2°0/11.3	18	
8 9	23 56.34	+ 3 51.1	2.128	2.941	13.9	21.8	8 9	23 48.66	-11 52.0	4.436	5.279	6.7	19.2
8 19	23 52.19	+ 2 54.5	2.059	2.957	10.8	21.6	8 19	23 45.55	-12 29.8	4.357	5.277	5.0	19.0
8 29	23 46.29	+ 1 42.1	2.012	2.974	7.3	21.4	8 29	23 41.61	-13 9.2	4.304	5.275	3.4	18.9
9 8	23 39.18	+ 0 18.1	1.992	2.989	3.4	21.2	9 8	23 37.10	-13 47.8	4.280	5.273	2.1	18.8
9 18	23 31.58	- 1 11.5	2.000	3.005	0.9	21.0	9 18	23 32.33	-14 23.1	4.286	5.270	2.4	18.8
9 28	23 24.29	- 2 39.6	2.038	3.019	4.7	21.4	9 28	23 27.66	-14 52.6	4.321	5.268	3.9	18.9
10 8	23 18.08	- 3 59.4	2.104	3.034	8.3	21.6	10 8	23 23.43	-15 14.7	4.384	5.266	5.6	19.1
10 18	23 13.50	- 5 6.1	2.196	3.047	11.5	21.8	10 18	23 19.93	-15 28.1	4.473	5.264	7.2	19.2
432652	2010 <i>XG</i> ₄₇		9 15.5 225°09	2°4/10.3	18		375210	2008 <i>EG</i> ₁₄₈					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
390427	2013 <i>YO</i> ₄₅		9 15.5 195°55	8°2/ 3.4	18		120072	2003 <i>DD</i> ₁₈		9 15.5 251°55	4°7/11.0	18	
8 9	23 58.17	-23 38.1	2.221	3.078	11.9	21.0	8 9	23 58.35	-11 12.9	1.670	2.535	14.8	20.4
8 19	23 53.93	-26 6.1	2.165	3.075	9.8	20.9	8 19	23 54.48	-12 24.0	1.597	2.527	11.4	20.1
8 29	23 47.67	-28 31.6	2.135	3.072	8.4	20.8	8 29	23 48.23	-13 42.5	1.546	2.520	7.7	19.9
9 8	23 39.90	-30 44.2	2.133	3.069	8.3	20.8	9 8	23 40.22	-15 0.3	1.519	2.513	4.9	19.7
9 18	23 31.37	-32 34.9	2.158	3.065	9.7	20.8	9 18	23 31.34	-16 8.6	1.519	2.505	5.8	19.8
9 28	23 23.02	-33 57.2	2.210	3.060	11.7	21.0	9 28	23 22.74	-16 59.4	1.546	2.497	9.2	19.9
10 8	23 15.76	-34 48.8	2.284	3.055	13.8	21.1	10 8	23 15.50	-17 27.8	1.596	2.489	12.9	20.2
10 18	23 10.30	-35 10.8	2.377	3.049	15.7	21.3	10 18	23 10.42	-17 32.6	1.668	2.481	16.3	20.4
507213	2010 <i>VH</i> ₃₂		9 15.5 158°82	1°5/14.2	17		378196	2006 <i>XT</i> ₅₈		9 15.5 271°13	0°8/14.8	18	
8 9	23 59.26	- 2 43.9	1.579	2.427	16.3	21.8	8 9	23 59.45	- 2 21.5	1.624	2.469	16.1	21.9
8 19	23 55.16	- 3 33.1	1.508	2.430	12.5	21.6	8 19	23 55.51	- 2 46.8	1.534	2.454	12.5	21.6
8 29	23 48.64	- 4 37.0	1.459	2.433	8.1	21.3	8 29	23 49.05	- 3 26.1	1.465	2.438	8.3	21.3
9 8	23 40.35	- 5 49.4	1.434	2.435	3.5	21.0	9 8	23 40.65	- 4 15.1	1.420	2.421	3.6	21.0
9 18	23 31.24	- 7 2.5	1.436	2.437	2.4	21.0	9 18	23 31.17	- 5 7.9	1.402	2.405	1.8	20.9
9 28	23 22.49	- 8 7.7	1.464	2.439	7.0	21.3	9 28	23 21.83	- 5 56.7	1.410	2.388	6.7	21.1
10 8	23 15.20	- 8 58.1	1.518	2.441	11.4	21.5	10 8	23 13.80	- 6 34.8	1.443	2.372	11.4	21.4
10 18	23 10.14	- 9 29.7	1.594	2.442	15.2	21.8	10 18	23 8.01	- 6 57.6	1.499	2.355	15.6	21.6
454872	2015 <i>TZ</i> ₆₂		9 15.5 19°78	3°6/19.6	18		104703	2000 <i>GK</i> ₁₆₆		9 15.5 306°72	1°6/17.1	18	
8 9	23 52.95	+10 34.6	1.991	2.784	15.4	20.3	8 9	23 54.72	+ 4 37.5	1.858	2.680	15.3	19.2
8 19	23 49.88	+10 23.5	1.912	2.787	12.6	20.1	8 19	23 51.44	+ 4 15.1	1.772	2.673	12.2	19.0
8 29	23 44.96	+ 9 52.3	1.852	2.791	9.4	19.9	8 29	23 46.12	+ 3 35.0	1.707	2.666	8.5	18.8
9 8	23 38.70	+ 9 2.5	1.816	2.795	6.0	19.7	9 8	23 39.27	+ 2 39.8	1.665	2.660	4.4	18.5
9 18	23 31.82	+ 7 57.6	1.805	2.800	3.6	19.6	9 18	23 31.65	+ 1 34.2	1.651	2.654	1.7	18.3
9 28	23 25.16	+ 6 43.5	1.823	2.805	5.0	19.7	9 28	23 24.22	+ 0 25.0	1.663	2.647	5.1	18.5
10 8	23 19.56	+ 5 27.5	1.867	2.810	8.2	19.9	10 8	23 17.90	- 0 40.5	1.702	2.641	9.2	18.8
10 18	23 15.65	+ 4 16.6	1.936	2.816	11.5	20.1	10 18	23 13.41	- 1 36.2	1.765	2.636	12.9	19.0
298174	2002 <i>TM</i> ₁₆₃		9 15.5 308°45	5°7/ 9.1	18		34558	2000 <i>SM</i> ₂₇₀		9 15.5 157°14	4°2/11.0	18	
8 9	23 53.11	-12 23.7	1.703	2.577	14.1	20.1	8 9	23 58.27	-13 51.4	2.206	3.060	12.1	19.5
8 19	23 50.49	-14 5.0	1.624	2.560	10.8	19.9	8 19	23 53.73	-14 37.8	2.138	3.062	9.3	19.3
8 29	23 45.64	-15 55.2	1.569	2.543	7.6	19.6	8 29	23 47.37	-15 26.3	2.093	3.063	6.4	19.1
9 8	23 39.10	-17 44.9	1.538	2.527	5.7	19.5	9 8	23 39.73	-16 11.2	2.075	3.064	4.3	19.0
9 18	23 31.66	-19 23.6	1.534	2.510	7.0	19.5	9 18	23 31.54	-16 46.9	2.084	3.065	4.9	19.0
9 28	23 24.39	-20 41.8	1.556	2.494	10.2	19.7	9 28	23 23.64	-17 8.9	2.121	3.066	7.5	19.2
10 8	23 18.31	-21 33.6	1.601	2.479	13.8	19.9	10 8	23 16.83	-17 14.7	2.184	3.067	10.3	19.4
10 18	23 14.24	-21 57.0	1.666	2.463	17.0	20.1	10 18	23 11.70	-17 3.6	2.269	3.068	13.0	19.6
24304	Lynnrice		9 15.5 340°53	2°4/13.4	18		378534	2008 <i>AZ</i> ₉₁		9 15.5 135°86	1°1/17.3	17	
8 9	23 52.57	- 2 51.0	1.205	2.082	18.5	17.9	8 9	23 53.03	+ 3 35.7	3.492	4.286	9.4	21.9
8 19	23 50.74	- 3 58.4	1.136	2.074	14.2	17.7	8 19	23 49.07	+ 3 27.9	3.407	4.292	7.4	21.8
8 29	23 46.13	- 5 26.1	1.087	2.067	9.2	17.4	8 29	23 44.01	+ 3 11.7	3.346	4.298	5.1	21.6
9 8	23 39.38	- 7 6.1	1.059	2.061	4.0	17.1	9 8	23 38.20	+ 2 48.5	3.312	4.304	2.7	21.5
9 18	23 31.57	- 8 46.8	1.055	2.056	3.6	17.0	9 18	23 32.05	+ 2 20.6	3.308	4.309	1.2	21.3
9 28	23 24.09	-10 15.4	1.075	2.051	8.8	17.3	9 28	23 26.04	+ 1 50.5	3.333	4.315	3.0	21.5
10 8	23 18.26	-11 22.0	1.118	2.047	13.9	17.6	10 8	23 20.63	+ 1 21.2	3.388	4.320	5.4	21.7
10 18	23 15.01	-12 1.2	1.180	2.044	18.4	17.9	10 18	23 16.19	+ 0 55.4	3.470	4.326	7.6	21.8
58765	1998 <i>FZ</i> ₃₃		9 15.5 189°69	0°2/15.3	18		356227	2009 <i>SE</i> ₂₄₈		9 15.5 318°58	1°7/12.4	16	
8 9	0 3.93	- 3 1.3	1.928	2.756	14.6	18.4	8 9	23 49.86	- 9 43.7	3.993	4.833	7.4	21.3
8 19	23 58.36	- 2 57.9	1.846	2.755	11.3	18.2	8 19	23 46.57	-10 11.7	3.908	4.827	5.6	21.1
8 29	23 50.57	- 3 3.5	1.787	2.754	7.5	18.0	8 29	23 42.34	-10 42.2	3.849	4.821	3.7	21.0
9 8	23 41.17	- 3 15.1	1.754	2.753	3.3	17.7	9 8	23 37.47	-11 12.9	3.818	4.815	2.0	20.9
9 18	23 31.00	- 3 29.0	1.748	2.752	1.2	17.6	9 18	23 32.30	-11 41.0	3.816	4.809	2.1	20.9
9 28	23 21.11	- 3 40.9	1.771	2.750	5.6	17.9	9 28	23 27.23	-12 4.2	3.844	4.803	3.9	21.0
10 8	23 12.50	- 3 46.7	1.822	2.748	9.6	18.1	10 8	23 22.65	-12 20.5	3.900	4.797	5.8	21.1
10 18	23 5.92	- 3 43.8	1.897	2.746	13.1	18.4	10 18	23 18.89	-12 28.5	3.982	4.791	7.6	21.2
226529	2003 <i>UV</i> ₁₃₉		9 15.5 295°23	2°4/12.7	18		17351	Pheidippos		9 15.5 310°46	0°8/14.1	18	
8 9	23 54.07	- 7 25.9	2.252	3.102	12.0	20.2	8 9	23 51.52	- 6 9.5	4.058	4.885	7.5	18.3
8 19	23 50.61	- 8 14.7	2.162	3.086	9.2	20.0	8 19	23 47.79	- 6 21.1	3.967	4.878	5.7	18.2
8 29	23 45.40	- 9 11.4	2.096	3.071	6.0	19.8	8 29	23 43.12	- 6 36.3	3.902	4.872	3.7	18.0
9 8	23 38.91	-10 11.2	2.056	3.055	3.0	19.6	9 8	23 37.81	- 6 53.0	3.866	4.866	1.6	17.9
9 18	23 31.75	-11 8.3	2.044	3.039	3.2	19.6	9 18	23 32.19	- 7 9.2	3.859	4.859	1.2	17.8
9 28	23 24.72	-11 57.2	2.060	3.024	6.3	19.8	9 28	23 26.67	- 7 22.7	3.882	4.853	3.3	18.0
10 8	23 18.59	-12 33.2	2.102	3.008	9.6	19.9	10 8	23 21.64	- 7 31.6	3.934	4.847	5.3	18.1
10 18	23 13.98	-12 53.7	2.168	2.993	12.6	20.1	10 18	23 17.42	- 7 34.5	4.013	4.841	7.2	18.3
170608	2003 <i>YR</i> ₃₉		9 15.5 277°50	0°3/15.2	18		76341	2000 <i>EF</i> ₁₅₆		9 15.5 351°03	3°5/18.7	18	
8 9	23 57.82	- 1 37.5	1.949	2.784	14.2	21.4	8 9	23 58.59	+ 7 42.1	1.940	2.737	15.6	19.1
8 19	23 53.82	- 1 57.8	1.853	2.767	11.1	21.1	8 19	23 54.33	+ 7 58.7	1.856	2.737	12.7	18.9
8 29	23 47.71	- 2 30.2	1.779	2.749	7.3	20.9	8 29	23 47.97	+ 7 58.6	1.793	2.737	9.3	18.7
9 8	23 39.98	- 3 11.3	1.730	2.731	3.2	20.6	9 8	23 40.07	+ 7 42.5	1.754	2.737	5.7	18.5
9 18	23 31.38	- 3 56.5	1.709	2.712	1.3	20.4	9 18	23 31.42	+ 7 12.7	1.741	2.737	3.5	18.3
9 28	23 22.86	- 4 39.7	1.715	2.694	5.7	20.7	9 28	23 22.97	+ 6 33.7	1.755	2.737	5.3	18.4
10 8	23 15.41	- 5 15.3	1.747	2.675	9.8	20.9	10 8	23 15.68	+ 5 51.5	1.797	2.737	8.8	18.7
10 18	23 9.80	- 5 39.2	1.804	2.657	13.5	21.1	10 18	23 10.26	+ 5 11.9	1.863	2.737	12.2	18.9
505118	2012 <i>DK</i> ₈₁		9 15.5 149°65	1°4/14.2	17		446671	2015 <i>NR</i> ₂₅					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
521872	2015 <i>TO</i> ₃₇₈		9 15.5 39°21'	2°6'/18.7	18		469597	2004 <i>EN</i> ₉₃		9 15.5 133°60'	1°0'/14.6	17	
8 9	23 53.29	+ 8 34.1	2.241	3.035	13.9	20.8	8 9	0 2.68	- 3 28.5	1.845	2.679	14.9	22.1
8 19	23 49.94	+ 8 11.8	2.157	3.037	11.2	20.6	8 19	23 57.36	- 3 55.7	1.778	2.691	11.4	21.9
8 29	23 44.92	+ 7 32.1	2.094	3.039	8.1	20.4	8 29	23 49.88	- 4 33.4	1.733	2.703	7.4	21.7
9 8	23 38.69	+ 6 37.0	2.056	3.041	4.8	20.2	9 8	23 40.87	- 5 17.0	1.714	2.714	3.2	21.5
9 18	23 31.89	+ 5 30.2	2.045	3.044	2.6	20.0	9 18	23 31.23	- 6 0.8	1.722	2.725	1.8	21.4
9 28	23 25.29	+ 4 17.3	2.063	3.046	4.4	20.2	9 28	23 22.01	- 6 39.0	1.759	2.735	6.0	21.7
10 8	23 19.62	+ 3 4.7	2.108	3.048	7.6	20.4	10 8	23 14.14	- 7 6.7	1.823	2.744	9.9	21.9
10 18	23 15.46	+ 1 58.3	2.179	3.051	10.7	20.6	10 18	23 8.32	- 7 21.1	1.910	2.753	13.3	22.2
436609	2011 <i>KC</i> ₂₇		9 15.5 36°28'	6°7'/10.5	17		326232	2012 <i>DS</i> ₉		9 15.5 57°33'	0°3'/15.7	17	
8 9	23 59.61	-15 47.2	1.317	2.198	17.0	20.1	8 9	0 1.72	- 0 18.4	1.247	2.100	19.5	20.3
8 19	23 55.66	-16 49.7	1.276	2.213	13.1	19.9	8 19	23 57.44	- 0 27.7	1.194	2.115	15.1	20.0
8 29	23 48.99	-17 52.5	1.255	2.228	9.3	19.8	8 29	23 50.28	- 0 54.2	1.160	2.131	10.0	19.8
9 8	23 40.48	-18 45.7	1.257	2.244	6.9	19.7	9 8	23 41.12	- 1 32.9	1.147	2.148	4.5	19.6
9 18	23 31.34	-19 20.5	1.283	2.261	7.8	19.8	9 18	23 31.17	- 2 17.2	1.160	2.164	1.3	19.4
9 28	23 22.92	-19 31.2	1.332	2.278	10.9	20.0	9 28	23 21.88	- 2 58.9	1.197	2.181	6.8	19.8
10 8	23 16.36	-19 16.2	1.404	2.296	14.4	20.3	10 8	23 14.51	- 3 30.8	1.259	2.198	11.8	20.1
10 18	23 12.35	-18 37.8	1.496	2.314	17.6	20.5	10 18	23 9.84	- 3 48.4	1.342	2.215	16.0	20.4
273813	2007 <i>FU</i> ₃₇		9 15.5 73°86'	3°8'/12.7	16		179224	2001 <i>UG</i> ₁		9 15.5 241°76'	5°6'/13.2	17	
8 9	0 6.85	-11 39.4	1.607	2.460	15.9	20.6	8 9	0 18.05	-15 21.8	1.246	2.099	19.5	19.6
8 19	0 0.55	-12 6.2	1.564	2.487	12.1	20.5	8 19	0 10.76	-15 20.0	1.169	2.091	15.4	19.3
8 29	23 51.86	-12 35.9	1.542	2.514	8.0	20.3	8 29	23 59.59	-15 16.4	1.112	2.081	10.7	19.0
9 8	23 41.63	-13 2.1	1.545	2.541	4.5	20.2	9 8	23 45.39	-15 2.7	1.078	2.071	6.4	18.7
9 18	23 30.97	-13 18.8	1.576	2.568	4.6	20.2	9 18	23 29.70	-14 31.8	1.069	2.061	6.3	18.7
9 28	23 21.08	-13 21.5	1.634	2.594	7.9	20.5	9 28	23 14.57	-13 39.5	1.087	2.050	10.7	18.9
10 8	23 12.95	-13 8.6	1.717	2.620	11.5	20.8	10 8	23 1.88	-12 26.5	1.130	2.039	15.7	19.2
10 18	23 7.22	-12 40.4	1.823	2.646	14.7	21.0	10 18	22 52.82	-10 56.8	1.193	2.028	20.2	19.4
13387	<i>Irus</i>		9 15.5 339°90'	0°1'/15.3	17		202928	1998 <i>ST</i> ₉₂		9 15.5 344°74'	0°4'/15.7	18	
8 9	23 50.22	- 2 13.5	3.927	4.746	7.9	18.9	8 9	23 57.25	- 0 58.2	1.030	1.906	21.0	19.9
8 19	23 46.84	- 2 26.9	3.838	4.743	6.1	18.8	8 19	23 54.87	- 0 54.8	0.964	1.898	16.5	19.6
8 29	23 42.53	- 2 45.6	3.774	4.740	4.0	18.6	8 29	23 49.16	- 1 10.2	0.914	1.891	11.1	19.3
9 8	23 37.56	- 3 7.8	3.737	4.736	1.7	18.5	9 8	23 40.85	- 1 40.4	0.885	1.886	5.0	18.9
9 18	23 32.29	- 3 31.4	3.730	4.733	0.6	18.4	9 18	23 31.21	- 2 18.7	0.877	1.881	1.5	18.7
9 28	23 27.12	- 3 54.0	3.753	4.731	3.0	18.6	9 28	23 21.96	- 2 55.7	0.891	1.877	7.9	19.1
10 8	23 22.44	- 4 13.4	3.804	4.728	5.2	18.7	10 8	23 14.72	- 3 22.6	0.927	1.875	13.8	19.4
10 18	23 18.58	- 4 27.7	3.883	4.725	7.1	18.8	10 18	23 10.60	- 3 33.4	0.982	1.873	18.9	19.7
147689	2004 <i>PR</i> ₇₇		9 15.5 4°99'	4°0'/19.6	18		3542	<i>Tanjiazhen</i>		9 15.5 23°49'	4°2'/20.1	18	
8 9	23 56.54	+10 1.5	2.110	2.894	14.9	20.2	8 9	23 54.80	+11 24.7	2.137	2.917	14.9	17.2
8 19	23 52.60	+10 17.0	2.025	2.894	12.3	20.0	8 19	23 51.23	+11 34.5	2.055	2.920	12.3	17.0
8 29	23 46.76	+10 15.5	1.960	2.894	9.2	19.8	8 29	23 45.84	+11 26.2	1.993	2.923	9.3	16.8
9 8	23 39.54	+ 9 57.3	1.919	2.895	6.1	19.6	9 8	23 39.14	+11 0.2	1.954	2.927	6.3	16.7
9 18	23 31.63	+ 9 24.4	1.904	2.895	4.0	19.5	9 18	23 31.81	+10 18.8	1.942	2.931	4.3	16.6
9 28	23 23.91	+ 8 40.9	1.917	2.896	5.2	19.6	9 28	23 24.68	+ 9 26.4	1.957	2.935	5.2	16.6
10 8	23 17.22	+ 7 52.7	1.956	2.896	8.2	19.7	10 8	23 18.57	+ 8 29.1	1.999	2.940	8.0	16.8
10 18	23 12.22	+ 7 5.4	2.021	2.897	11.3	19.9	10 18	23 14.08	+ 7 32.9	2.066	2.945	10.9	17.0
401620	2013 <i>GU</i> ₅₄		9 15.5 34°45'	4°7'/10.8	18		134282	2006 <i>CU</i> ₂₀		9 15.5 195°39'	4°6'/10.3	18	
8 9	23 58.39	-15 17.8	2.074	2.932	12.6	20.3	8 9	0 2.00	-18 59.3	2.735	3.575	10.4	20.0
8 19	23 53.92	-16 1.3	2.011	2.936	9.7	20.1	8 19	23 56.24	-19 28.2	2.661	3.573	8.2	19.9
8 29	23 47.53	-16 45.5	1.971	2.940	6.8	19.9	8 29	23 48.86	-19 54.8	2.613	3.571	6.0	19.7
9 8	23 39.82	-17 24.4	1.957	2.944	4.8	19.8	9 8	23 40.37	-20 14.7	2.592	3.569	4.6	19.6
9 18	23 31.56	-17 52.6	1.969	2.948	5.5	19.9	9 18	23 31.42	-20 23.8	2.600	3.566	5.2	19.7
9 28	23 23.66	-18 5.5	2.009	2.952	8.0	20.0	9 28	23 22.75	-20 19.2	2.637	3.564	7.1	19.8
10 8	23 16.93	-18 1.0	2.074	2.956	10.9	20.2	10 8	23 15.05	-19 59.9	2.701	3.560	9.4	19.9
10 18	23 11.98	-17 39.2	2.162	2.961	13.5	20.4	10 18	23 8.86	-19 26.3	2.789	3.557	11.6	20.1
438588	2007 <i>VB</i> ₃₂		9 15.5 285°95'	2°3'/17.7	18		97019	1999 <i>TW</i> ₂₇₄		9 15.5 298°34'	1°4'/16.6	18	
8 9	23 57.07	+ 5 14.7	1.889	2.703	15.4	21.4	8 9	23 57.80	+ 2 3.9	1.681	2.513	16.2	20.1
8 19	23 53.23	+ 5 11.7	1.804	2.698	12.3	21.2	8 19	23 54.18	+ 2 2.9	1.588	2.496	12.9	19.8
8 29	23 47.30	+ 4 52.2	1.739	2.694	8.7	20.9	8 29	23 48.18	+ 1 46.2	1.515	2.479	8.9	19.6
9 8	23 39.82	+ 4 17.9	1.698	2.689	4.8	20.7	9 8	23 40.30	+ 1 16.1	1.466	2.463	4.4	19.3
9 18	23 31.55	+ 3 32.4	1.683	2.685	2.3	20.5	9 18	23 31.40	+ 0 36.4	1.443	2.447	1.5	19.0
9 28	23 23.47	+ 2 41.3	1.696	2.680	5.1	20.7	9 28	23 22.59	- 0 6.7	1.446	2.430	5.8	19.3
10 8	23 16.54	+ 1 51.0	1.736	2.676	9.0	20.9	10 8	23 15.01	- 0 46.3	1.475	2.414	10.4	19.5
10 18	23 11.47	+ 1 7.4	1.800	2.671	12.6	21.2	10 18	23 9.54	- 1 16.9	1.527	2.399	14.5	19.7
207794	2007 <i>TM</i> ₁₆₇		9 15.5 0°48'	2°0'/17.0	18		443552	2014 <i>KQ</i> ₁₆		9 15.5 2°55'	7°7'/ 8.1	18	
8 9	23 57.09	+ 2 41.5	1.479	2.319	17.6	19.8	8 9	23 57.40	-20 46.2	1.701	2.574	14.2	20.3
8 19	23 53.73	+ 2 53.1	1.405	2.317	14.0	19.6	8 19	23 53.67	-21 58.9	1.646	2.573	11.3	20.1
8 29	23 47.85	+ 2 47.9	1.352	2.316	9.7	19.3	8 29	23 47.62	-23 8.6	1.613	2.573	8.8	20.0
9 8	23 40.11	+ 2 28.0	1.320	2.316	5.1	19.0	9 8	23 39.94	-24 6.3	1.604	2.573	7.7	19.9
9 18	23 31.46	+ 1 57.3	1.313	2.316	2.1	18.9	9 18	23 31.57	-24 44.3	1.619	2.574	8.8	20.0
9 28	23 23.12	+ 1 22.1	1.332	2.317	5.9	19.1	9 28	23 23.63	-24 57.2	1.659	2.576	11.2	20.1
10 8	23 16.25	+ 0 49.3	1.376	2.320	10.5	19.4	10 8	23 17.13	-24 43.6	1.722	2.578	14.0	20.3
10 18	23 11.68	+ 0 24.6	1.442	2.322	14.6	19.6	10 18	23 12.78	-24 5.5	1.804	2.580	16.6	20.5
272319	2005 <i>SJ</i> ₇₃		9 15.5 344°24'	1°7'/14.3	18		288079	2003 <i>VV</i> ₅		9 15.5			

EPHEMERIDES

9 15.5

9 15.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
72860	2001 <i>HL</i> ₄₈		9 15.5 243°07	7°9/23.5 18			480959	2003 <i>UZ</i> ₃		9 15.5 317°46	2°7/13.2 18		
8 9	23 59.14	+20 16.6	2.078	2.798	17.0	19.3	8 9	23 57.67	- 7 22.2	1.636	2.496	15.3	21.4
8 19	23 54.91	+21 4.1	1.982	2.791	14.9	19.1	8 19	23 54.01	- 7 58.7	1.559	2.488	11.7	21.2
8 29	23 48.51	+21 30.0	1.904	2.783	12.4	19.0	8 29	23 47.98	- 8 44.6	1.503	2.480	7.7	20.9
9 8	23 40.41	+21 31.4	1.847	2.775	10.0	18.8	9 8	23 40.19	- 9 33.8	1.472	2.471	3.7	20.7
9 18	23 31.39	+21 7.4	1.814	2.767	8.2	18.7	9 18	23 31.52	-10 19.5	1.466	2.464	3.6	20.6
9 28	23 22.42	+20 20.3	1.807	2.758	8.1	18.7	9 28	23 23.12	-10 54.6	1.487	2.456	7.6	20.9
10 8	23 14.52	+19 16.0	1.826	2.749	9.8	18.7	10 8	23 16.06	-11 14.0	1.532	2.449	11.7	21.1
10 18	23 8.51	+18 2.5	1.869	2.741	12.3	18.9	10 18	23 11.15	-11 15.4	1.599	2.442	15.4	21.3
314092	2005 <i>EC</i> ₁₄		9 15.5 221°73	1°6/14.4 17			424469	2008 <i>CS</i> ₁₅₈		9 15.5 198°57	1°6/14.0 17		
8 9	0 3.99	- 5 12.2	1.595	2.441	16.3	21.3	8 9	0 1.30	- 4 21.8	1.845	2.684	14.7	22.3
8 19	23 58.95	- 5 28.2	1.516	2.436	12.6	21.1	8 19	23 56.52	- 5 1.7	1.765	2.682	11.3	22.1
8 29	23 51.28	- 5 54.4	1.458	2.431	8.3	20.8	8 29	23 49.49	- 5 52.6	1.707	2.678	7.4	21.8
9 8	23 41.63	- 6 26.0	1.424	2.425	3.6	20.5	9 8	23 40.81	- 6 49.6	1.674	2.675	3.2	21.6
9 18	23 31.00	- 6 57.1	1.417	2.419	2.4	20.4	9 18	23 31.33	- 7 46.3	1.669	2.670	2.4	21.5
9 28	23 20.68	- 7 21.3	1.437	2.413	7.1	20.7	9 28	23 22.10	- 8 35.8	1.692	2.665	6.5	21.8
10 8	23 11.86	- 7 33.5	1.483	2.406	11.6	21.0	10 8	23 14.13	- 9 12.6	1.742	2.659	10.6	22.0
10 18	23 5.45	- 7 31.2	1.550	2.399	15.6	21.2	10 18	23 8.19	- 9 33.6	1.815	2.652	14.1	22.2
366168	2012 <i>FY</i> ₇₅		9 15.5 280°68	1°6/17.5 18			47307	1999 <i>XR</i> ₄		9 15.5 226°89	1°0/14.6 18		
8 9	23 53.25	+ 5 38.8	2.328	3.133	13.1	20.3	8 9	23 59.70	- 2 12.4	1.834	2.671	14.9	19.8
8 19	23 49.90	+ 5 10.1	2.237	3.128	10.4	20.1	8 19	23 55.38	- 2 54.1	1.747	2.662	11.5	19.5
8 29	23 44.91	+ 4 26.1	2.169	3.123	7.3	19.9	8 29	23 48.81	- 3 49.6	1.681	2.652	7.6	19.3
9 8	23 38.74	+ 3 29.0	2.126	3.118	3.9	19.7	9 8	23 40.55	- 4 54.1	1.640	2.641	3.2	19.0
9 18	23 31.97	+ 2 22.8	2.111	3.113	1.6	19.5	9 18	23 31.40	- 6 1.2	1.627	2.630	1.9	18.9
9 28	23 25.36	+ 1 13.1	2.124	3.108	4.3	19.7	9 28	23 22.43	- 7 3.5	1.642	2.618	6.3	19.2
10 8	23 19.61	+ 0 5.8	2.166	3.103	7.7	19.9	10 8	23 14.65	- 7 54.4	1.684	2.606	10.6	19.4
10 18	23 15.32	- 0 53.9	2.233	3.098	10.8	20.1	10 18	23 8.86	- 8 29.5	1.749	2.593	14.3	19.6
485890	2012 <i>FS</i> ₄₇		9 15.5 71°54	1°3/13.8 18			306640	2000 <i>SJ</i> ₃₁		9 15.5 316°84	1°3/16.6 18 R		
8 9	23 53.33	- 3 33.4	2.344	3.184	11.9	21.6	8 9	23 51.38	+ 4 16.8	1.384	2.233	18.2	20.5
8 19	23 49.87	- 4 26.9	2.270	3.188	9.1	21.4	8 19	23 49.79	+ 3 43.6	1.287	2.205	14.6	20.2
8 29	23 44.82	- 5 30.1	2.220	3.192	5.9	21.2	8 29	23 45.61	+ 2 44.8	1.208	2.177	10.1	19.9
9 8	23 38.67	- 6 38.2	2.196	3.197	2.5	21.0	9 8	23 39.33	+ 1 23.1	1.151	2.149	5.0	19.5
9 18	23 32.02	- 7 46.1	2.201	3.201	2.0	21.0	9 18	23 31.77	- 0 15.3	1.118	2.122	1.5	19.2
9 28	23 25.59	- 8 47.9	2.234	3.205	5.3	21.2	9 28	23 24.19	- 1 59.6	1.110	2.096	6.7	19.4
10 8	23 20.06	- 9 38.9	2.295	3.210	8.5	21.4	10 8	23 17.91	- 3 37.5	1.126	2.071	12.2	19.7
10 18	23 15.95	-10 16.2	2.380	3.214	11.3	21.6	10 18	23 14.00	- 4 58.7	1.162	2.046	17.2	19.9
23401	Brodskaya		9 15.5 44°06	3°8/18.4 18			266457	2007 <i>LB</i>		9 15.5 88°46	1°6/17.3 18		
8 9	23 57.20	+ 8 9.6	1.041	1.888	22.9	18.5	8 9	23 55.81	+ 7 6.6	1.744	2.557	16.5	20.2
8 19	23 54.42	+ 8 2.8	0.994	1.905	18.4	18.2	8 19	23 52.24	+ 6 10.1	1.677	2.573	13.0	20.0
8 29	23 48.52	+ 7 25.7	0.963	1.923	13.2	18.0	8 29	23 46.59	+ 4 51.7	1.631	2.588	9.0	19.8
9 8	23 40.43	+ 6 21.3	0.951	1.942	7.6	17.8	9 8	23 39.49	+ 3 15.8	1.609	2.603	4.7	19.6
9 18	23 31.46	+ 4 57.7	0.961	1.962	3.8	17.6	9 18	23 31.78	+ 1 29.6	1.615	2.618	1.7	19.4
9 28	23 23.22	+ 3 26.9	0.994	1.982	7.0	17.9	9 28	23 24.45	- 0 17.6	1.648	2.633	5.2	19.7
10 8	23 17.05	+ 2 1.8	1.051	2.003	12.0	18.2	10 8	23 18.41	- 1 56.5	1.709	2.647	9.3	20.0
10 18	23 13.77	+ 0 52.1	1.128	2.024	16.6	18.6	10 18	23 14.28	- 3 20.3	1.795	2.661	12.9	20.3
365579	2010 <i>TE</i> ₁₁₄		9 15.5 88°92	1°0/14.4 18			447752	2007 <i>HA</i> ₇₁		9 15.5 192°75	3°8/10.4 18		
8 9	23 57.96	- 4 13.3	2.151	2.988	13.0	21.5	8 9	23 57.01	-15 17.2	2.841	3.687	9.9	21.4
8 19	23 53.48	- 4 37.3	2.082	2.997	9.9	21.3	8 19	23 52.43	-16 6.3	2.767	3.685	7.6	21.3
8 29	23 47.22	- 5 9.6	2.036	3.007	6.4	21.1	8 29	23 46.39	-16 56.4	2.718	3.683	5.4	21.1
9 8	23 39.72	- 5 46.4	2.016	3.016	2.7	20.9	9 8	23 39.34	-17 42.7	2.696	3.681	3.9	21.0
9 18	23 31.69	- 6 23.0	2.024	3.026	1.7	20.9	9 18	23 31.83	-18 20.9	2.704	3.678	4.5	21.1
9 28	23 23.97	- 6 54.7	2.060	3.035	5.3	21.1	9 28	23 24.52	-18 47.2	2.740	3.674	6.5	21.2
10 8	23 17.33	- 7 17.5	2.124	3.044	8.8	21.3	10 8	23 18.02	-18 59.4	2.803	3.671	8.9	21.4
10 18	23 12.36	- 7 29.0	2.212	3.053	11.8	21.6	10 18	23 12.84	-18 56.9	2.890	3.667	11.0	21.5
88245	2001 <i>CH</i> ₄₉		9 15.5 288°76	1°5/12.4 18			118234	1997 <i>BO</i> ₇		9 15.5 112°11	1°6/17.5 18		
8 9	23 48.55	- 8 57.6	4.326	5.165	6.9	19.9	8 9	23 57.20	+ 4 50.2	2.511	3.307	12.5	20.7
8 19	23 45.54	- 9 33.5	4.238	5.156	5.2	19.7	8 19	23 52.64	+ 4 35.8	2.438	3.324	9.9	20.6
8 29	23 41.68	-10 12.4	4.176	5.148	3.4	19.6	8 29	23 46.55	+ 4 8.8	2.389	3.341	6.9	20.4
9 8	23 37.23	-10 51.8	4.142	5.139	1.8	19.5	9 8	23 39.40	+ 3 31.4	2.365	3.357	3.7	20.2
9 18	23 32.51	-11 29.3	4.137	5.130	1.9	19.5	9 18	23 31.82	+ 2 46.9	2.370	3.372	1.6	20.1
9 28	23 27.86	-12 2.2	4.163	5.121	3.6	19.6	9 28	23 24.50	+ 1 59.6	2.405	3.388	4.0	20.3
10 8	23 23.63	-12 28.6	4.217	5.113	5.5	19.7	10 8	23 18.10	+ 1 14.2	2.468	3.402	7.0	20.5
10 18	23 20.15	-12 47.1	4.297	5.104	7.2	19.8	10 18	23 13.14	+ 0 34.6	2.558	3.417	9.8	20.7
461605	2004 <i>TO</i> ₁₉₅		9 15.5 31°65	0°6/15.1 17			220483	2004 <i>CX</i> ₃₅		9 15.5 237°00	1°0/16.4 18		
8 9	0 1.02	- 2 57.6	1.046	1.919	20.9	20.6	8 9	0 1.63	+ 1 33.2	1.826	2.647	15.5	21.3
8 19	23 57.45	- 2 59.8	0.994	1.928	16.2	20.4	8 19	23 56.95	+ 1 25.2	1.732	2.635	12.3	21.0
8 29	23 50.59	- 3 17.8	0.959	1.937	10.7	20.1	8 29	23 49.91	+ 1 2.7	1.660	2.622	8.4	20.8
9 8	23 41.37	- 3 46.2	0.946	1.947	4.6	19.8	9 8	23 41.07	+ 0 28.1	1.612	2.609	4.1	20.5
9 18	23 31.15	- 4 17.6	0.954	1.958	1.9	19.7	9 18	23 31.25	- 0 14.5	1.592	2.596	1.3	20.3
9 28	23 21.66	- 4 43.5	0.987	1.970	7.9	20.1	9 28	23 21.55	- 0 59.0	1.599	2.582	5.6	20.5
10 8	23 14.34	- 4 57.1	1.041	1.982	13.4	20.4	10 8	23 13.06	- 1 39.3	1.634	2.567	10.0	20.8
10 18	23 10.09	- 4 54.8	1.115	1.995	18.0	20.8	10 18	23 6.63	- 2 10.1	1.692	2.552	13.9	21.0
390474	2013 <i>YY</i> ₁₂₅		9 15.5 265°81	2°2/13.5 18			91836	1999 <i>TA</i> ₃₁₁					

EPHEMERIDES

9 15.5

9 15.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
163305	2002 <i>JR</i> ₃₅		9 15.5	17°18'	2°5'/13.6	18	192224	2007 <i>VO</i> ₆		9 15.5	1°97'	1°2'/13.1	17
8 9	23 51.94	- 4 49.2	1.064	1.954	19.4	18.3	8 9	23 48.21	- 6 18.1	4.045	4.881	7.4	19.8
8 19	23 50.28	- 5 32.5	1.020	1.965	14.8	18.0	8 19	23 45.34	- 7 1.9	3.964	4.881	5.6	19.7
8 29	23 45.75	- 6 30.6	0.995	1.978	9.5	17.8	8 29	23 41.59	- 7 50.0	3.909	4.881	3.6	19.5
9 8	23 39.23	- 7 34.9	0.990	1.992	4.2	17.6	9 8	23 37.23	- 8 39.8	3.881	4.881	1.7	19.4
9 18	23 31.92	- 8 35.4	1.008	2.009	3.6	17.6	9 18	23 32.60	- 9 28.4	3.884	4.881	1.6	19.4
9 28	23 25.26	- 9 22.2	1.049	2.027	8.5	17.9	9 28	23 28.06	-10 13.0	3.916	4.881	3.5	19.5
10 8	23 20.46	- 9 48.9	1.112	2.047	13.4	18.3	10 8	23 23.98	-10 51.2	3.978	4.882	5.5	19.7
10 18	23 18.24	- 9 53.0	1.194	2.068	17.5	18.6	10 18	23 20.69	-11 21.0	4.065	4.882	7.3	19.8
54736	2001 <i>KC</i> ₂₆		9 15.5	62°30'	3°1'/17.9	17	137626	1999 <i>VG</i> ₂₂₀		9 15.5	82°25'	0°2'/15.4	17
8 9	0 0.29	+ 6 3.2	1.407	2.233	19.1	19.5	8 9	0 3.86	- 1 44.5	1.418	2.263	18.0	20.4
8 19	23 56.18	+ 6 9.8	1.346	2.246	15.3	19.2	8 19	23 58.83	- 1 54.3	1.361	2.278	13.9	20.2
8 29	23 49.44	+ 5 55.2	1.304	2.260	10.8	19.0	8 29	23 51.12	- 2 18.1	1.323	2.294	9.2	19.9
9 8	23 40.82	+ 5 21.4	1.283	2.274	6.1	18.8	9 8	23 41.54	- 2 51.2	1.309	2.309	4.0	19.7
9 18	23 31.39	+ 4 33.1	1.288	2.288	3.1	18.7	9 18	23 31.22	- 3 27.6	1.321	2.325	1.4	19.5
9 28	23 22.47	+ 3 37.8	1.318	2.302	6.1	18.9	9 28	23 21.49	- 4 0.4	1.359	2.340	6.6	19.9
10 8	23 15.22	+ 2 44.0	1.373	2.317	10.5	19.2	10 8	23 13.54	- 4 23.7	1.422	2.355	11.2	20.2
10 18	23 10.43	+ 1 58.7	1.450	2.331	14.5	19.5	10 18	23 8.12	- 4 33.9	1.507	2.370	15.2	20.5
479029	2013 <i>AZ</i> ₁₉		9 15.5	333°30'	5°6'/20.8	18	66522	1999 <i>RG</i> ₁₀₂		9 15.5	241°06'	7°4'/23.1	18
8 9	23 57.73	+13 13.3	1.883	2.657	16.8	21.0	8 9	23 58.60	+19 11.0	2.044	2.773	17.0	18.2
8 19	23 53.86	+13 44.6	1.797	2.654	14.1	20.8	8 19	23 54.54	+19 47.7	1.947	2.765	14.8	18.0
8 29	23 47.81	+13 55.7	1.730	2.652	11.0	20.6	8 29	23 48.30	+20 2.2	1.868	2.756	12.2	17.8
9 8	23 40.13	+13 45.6	1.685	2.650	7.9	20.4	9 8	23 40.38	+19 52.1	1.810	2.747	9.5	17.6
9 18	23 31.60	+13 15.3	1.665	2.648	5.8	20.3	9 18	23 31.54	+19 17.1	1.777	2.737	7.7	17.5
9 28	23 23.23	+12 28.8	1.672	2.646	6.4	20.3	9 28	23 22.77	+18 20.2	1.770	2.727	7.7	17.5
10 8	23 16.03	+11 32.8	1.705	2.644	9.2	20.5	10 8	23 15.06	+17 7.8	1.788	2.718	9.6	17.6
10 18	23 10.77	+10 34.8	1.762	2.643	12.4	20.7	10 18	23 9.25	+15 48.1	1.832	2.707	12.3	17.7
449768	2014 <i>OJ</i> ₈₀		9 15.5	265°57'	4°9'/9.8	18	329180	2012 <i>DC</i> ₂₃		9 15.5	111°99'	2°5'/18.3	18
8 9	23 56.34	-15 32.5	2.272	3.130	11.6	21.1	8 9	23 57.00	+ 6 20.0	2.386	3.180	13.2	21.2
8 19	23 52.36	-16 35.6	2.196	3.120	9.0	20.9	8 19	23 52.72	+ 6 26.9	2.301	3.182	10.6	21.0
8 29	23 46.59	-17 40.8	2.144	3.111	6.5	20.7	8 29	23 46.76	+ 6 20.6	2.238	3.184	7.6	20.8
9 8	23 39.51	-18 41.7	2.118	3.101	4.9	20.6	9 8	23 39.59	+ 6 2.1	2.200	3.185	4.5	20.6
9 18	23 31.82	-19 32.1	2.119	3.091	5.7	20.6	9 18	23 31.84	+ 5 33.9	2.189	3.187	2.5	20.5
9 28	23 24.31	-20 7.0	2.148	3.081	8.1	20.8	9 28	23 24.28	+ 4 59.7	2.207	3.189	4.3	20.6
10 8	23 17.80	-20 23.2	2.202	3.071	10.9	20.9	10 8	23 17.63	+ 4 24.0	2.254	3.191	7.4	20.8
10 18	23 12.89	-20 20.1	2.279	3.062	13.4	21.1	10 18	23 12.48	+ 3 51.3	2.326	3.193	10.3	21.0
399692	2004 <i>TW</i> ₁₀₁		9 15.5	341°14'	1°0'/14.6	18	124665	2001 <i>SQ</i> ₈₉		9 15.5	314°81'	2°2'/17.1	17
8 9	23 54.20	- 3 13.6	1.768	2.620	14.7	20.4	8 9	23 58.36	+ 3 26.7	1.205	2.055	20.2	20.5
8 19	23 51.17	- 3 37.9	1.687	2.611	11.3	20.1	8 19	23 55.44	+ 3 31.9	1.128	2.045	16.2	20.2
8 29	23 46.04	- 4 13.8	1.627	2.602	7.4	19.9	8 29	23 49.45	+ 3 15.3	1.069	2.036	11.3	19.9
9 8	23 39.35	- 4 57.2	1.592	2.593	3.2	19.6	9 8	23 41.04	+ 2 38.9	1.031	2.027	5.9	19.6
9 18	23 31.87	- 5 42.3	1.583	2.586	1.8	19.5	9 18	23 31.33	+ 1 47.8	1.016	2.019	2.3	19.3
9 28	23 24.61	- 6 22.9	1.600	2.579	6.1	19.8	9 28	23 21.86	+ 0 50.6	1.025	2.011	7.0	19.6
10 8	23 18.51	- 6 53.4	1.643	2.572	10.2	20.0	10 8	23 14.13	- 0 2.6	1.057	2.004	12.5	19.9
10 18	23 14.30	- 7 10.1	1.708	2.567	13.9	20.2	10 18	23 9.23	- 0 43.6	1.109	1.997	17.5	20.1
428608	2008 <i>EK</i> ₁₄₈		9 15.5	195°22'	0°4'/15.9	17	84030	2002 <i>PY</i> ₄₄		9 15.5	345°48'	5°6'/10.1	18
8 9	23 59.07	+ 1 45.1	1.772	2.599	15.7	22.1	8 9	23 52.09	-11 21.6	1.438	2.322	15.6	17.9
8 19	23 54.90	+ 1 8.5	1.690	2.597	12.3	21.8	8 19	23 50.02	-12 49.0	1.372	2.313	12.0	17.6
8 29	23 48.49	+ 0 15.0	1.630	2.595	8.3	21.6	8 29	23 45.51	-14 25.4	1.327	2.305	8.2	17.4
9 8	23 40.42	- 0 51.4	1.594	2.593	3.8	21.3	9 8	23 39.18	-16 0.9	1.306	2.298	5.7	17.2
9 18	23 31.52	- 2 4.7	1.586	2.590	1.1	21.1	9 18	23 31.97	-17 24.7	1.309	2.292	6.8	17.3
9 28	23 22.87	- 3 17.1	1.605	2.587	5.7	21.4	9 28	23 25.06	-18 27.1	1.336	2.287	10.4	17.5
10 8	23 15.48	- 4 21.2	1.651	2.583	10.1	21.7	10 8	23 19.57	-19 2.5	1.386	2.283	14.2	17.7
10 18	23 10.11	- 5 11.3	1.721	2.578	13.9	21.9	10 18	23 16.31	-19 9.6	1.456	2.280	17.7	17.9
88686	2001 <i>RQ</i> ₁₁₅		9 15.5	63°60'	1°8'/14.5	17	380383	2002 <i>VA</i> ₂₄		9 15.5	326°62'	4°7'/18.9	18
8 9	0 7.49	- 5 13.1	1.102	1.967	20.7	19.6	8 9	23 51.55	+ 7 48.2	1.164	2.011	20.9	20.4
8 19	0 2.00	- 5 25.1	1.062	1.991	15.8	19.4	8 19	23 50.41	+ 8 12.1	1.074	1.986	17.3	20.1
8 29	23 53.29	- 5 49.4	1.039	2.016	10.3	19.2	8 29	23 46.33	+ 8 10.4	1.001	1.961	12.9	19.7
9 8	23 42.44	- 6 19.0	1.039	2.040	4.4	18.9	9 8	23 39.78	+ 7 41.7	0.948	1.937	8.1	19.4
9 18	23 30.93	- 6 46.5	1.063	2.065	2.8	18.9	9 18	23 31.71	+ 6 48.2	0.915	1.914	4.8	19.1
9 28	23 20.44	- 7 4.4	1.111	2.090	8.1	19.3	9 28	23 23.61	+ 5 37.2	0.905	1.893	7.4	19.2
10 8	23 12.30	- 7 8.1	1.183	2.115	13.1	19.7	10 8	23 17.06	+ 4 20.4	0.916	1.873	12.7	19.4
10 18	23 7.25	- 6 55.9	1.275	2.139	17.3	20.0	10 18	23 13.29	+ 3 9.9	0.948	1.854	18.0	19.7
102337	1999 <i>TN</i> ₁₁₄		9 15.5	338°72'	0°6'/16.0	18	251369	2007 <i>UA</i> ₄₇		9 15.5	3°20'	4°8'/12.3	17
8 9	23 52.09	+ 1 39.9	1.349	2.207	18.0	19.2	8 9	23 52.50	- 8 25.8	0.899	1.804	20.6	19.4
8 19	23 50.21	+ 1 14.6	1.270	2.194	14.2	18.9	8 19	23 51.39	- 9 18.6	0.848	1.801	15.8	19.1
8 29	23 45.76	+ 0 28.5	1.210	2.182	9.6	18.6	8 29	23 46.91	-10 24.9	0.815	1.801	10.4	18.8
9 8	23 39.34	- 0 34.3	1.171	2.171	4.5	18.3	9 8	23 39.90	-11 33.6	0.801	1.802	5.6	18.5
9 18	23 31.87	- 1 47.1	1.157	2.161	1.2	18.1	9 18	23 31.76	-12 32.2	0.808	1.804	6.1	18.6
9 28	23 24.61	- 3 0.1	1.167	2.152	6.6	18.4	9 28	23 24.23	-13 9.1	0.835	1.809	11.1	18.9
10 8	23 18.79	- 4 3.7	1.201	2.144	11.8	18.7	10 8	23 18.85	-13 18.0	0.882	1.815	16.3	19.2
10 18	23 15.33	- 4 50.8	1.256	2.138	16.3	18.9	10 18	23 16.57	-12 58.1	0.946	1.823	20.8	19.5
470813	2008 <i>VW</i> ₄₉		9 15.5	348°22'	7°4'/21.4	16	33032						

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9 15.5

9 15.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
69156	2003 <i>JH</i> ₁		9 15.5 337°75	0°3/15.3	18		55816	1995 <i>CO</i>		9 15.6 179°80	2°1/13.3	18	
8 9	23 47.46	+ 2 17.5	1.164	2.037	19.3	17.8	8 9	23 57.09	- 5 53.6	1.995	2.842	13.4	19.5
8 19	23 46.99	+ 1 18.5	1.085	2.019	15.2	17.4	8 19	23 53.09	- 6 41.6	1.921	2.842	10.3	19.3
8 29	23 43.85	- 0 9.1	1.025	2.003	10.1	17.1	8 29	23 47.16	- 7 38.8	1.869	2.843	6.7	19.1
9 8	23 38.59	- 1 59.4	0.986	1.987	4.4	16.8	9 8	23 39.82	- 8 39.9	1.843	2.843	3.1	18.9
9 18	23 32.16	- 4 1.9	0.970	1.974	1.7	16.5	9 18	23 31.84	- 9 38.7	1.844	2.843	2.9	18.9
9 28	23 25.93	- 6 1.9	0.977	1.961	7.8	16.9	9 28	23 24.12	-10 28.9	1.874	2.843	6.4	19.1
10 8	23 21.23	- 7 45.3	1.007	1.950	13.5	17.1	10 8	23 17.51	-11 5.6	1.930	2.842	10.0	19.3
10 18	23 19.06	- 9 2.2	1.056	1.941	18.4	17.4	10 18	23 12.67	-11 26.3	2.009	2.842	13.2	19.6
514399	2016 <i>SU</i> ₃₇		9 15.5 284°23	1°3/16.7	18		350574	2001 <i>BN</i> ₈₃		9 15.6 265°88	1°3/18.4	18	
8 9	23 58.37	+ 2 20.0	1.728	2.556	16.0	21.6	8 9	23 48.56	+ 6 21.6	4.565	5.343	7.5	20.6
8 19	23 54.59	+ 2 14.9	1.634	2.540	12.7	21.3	8 19	23 45.55	+ 6 7.1	4.461	5.333	6.0	20.5
8 29	23 48.47	+ 1 54.0	1.561	2.524	8.8	21.1	8 29	23 41.72	+ 5 45.0	4.381	5.323	4.3	20.3
9 8	23 40.51	+ 1 19.5	1.512	2.509	4.4	20.8	9 8	23 37.33	+ 5 16.2	4.328	5.313	2.5	20.2
9 18	23 31.54	+ 0 35.5	1.489	2.493	1.5	20.5	9 18	23 32.66	+ 4 42.5	4.305	5.303	1.3	20.1
9 28	23 22.67	- 0 11.9	1.493	2.477	5.7	20.8	9 28	23 28.05	+ 4 5.8	4.311	5.293	2.4	20.2
10 8	23 15.00	- 0 55.7	1.523	2.461	10.2	21.0	10 8	23 23.83	+ 3 28.6	4.348	5.283	4.2	20.3
10 18	23 9.41	- 1 30.3	1.576	2.445	14.2	21.2	10 18	23 20.29	+ 2 53.2	4.412	5.273	6.0	20.4
387605	2002 <i>CS</i> ₂₀₇		9 15.5 249°82	1°5/12.3	16		112081	2002 <i>JG</i> ₂₅		9 15.6 148°69	0°4/15.1	18	
8 9	23 48.42	- 8 50.6	4.527	5.364	6.6	21.2	8 9	23 58.26	- 0 46.9	2.116	2.943	13.5	20.9
8 19	23 45.43	- 9 29.9	4.440	5.358	5.0	21.1	8 19	23 53.83	- 1 28.4	2.042	2.951	10.4	20.7
8 29	23 41.63	-10 12.2	4.380	5.351	3.3	21.0	8 29	23 47.55	- 2 22.1	1.991	2.958	6.8	20.5
9 8	23 37.27	-10 55.0	4.348	5.344	1.7	20.8	9 8	23 39.97	- 3 23.7	1.965	2.965	2.9	20.2
9 18	23 32.64	-11 35.9	4.345	5.338	1.9	20.9	9 18	23 31.81	- 4 27.9	1.968	2.972	1.3	20.1
9 28	23 28.09	-12 12.4	4.373	5.331	3.5	21.0	9 28	23 23.92	- 5 28.4	2.000	2.978	5.2	20.4
10 8	23 23.95	-12 42.5	4.430	5.324	5.3	21.1	10 8	23 17.11	- 6 19.8	2.060	2.983	8.8	20.6
10 18	23 20.50	-13 4.7	4.512	5.317	6.9	21.2	10 18	23 12.00	- 6 58.4	2.144	2.988	12.0	20.9
318659	2005 <i>NU</i> ₁₃		9 15.5 70°49	1°1/16.5	17		274858	2009 <i>RC</i> ₁₅		9 15.6 228°13	0°3/15.9	17	
8 9	0 0.15	+ 2 46.6	1.443	2.279	18.2	21.0	8 9	23 58.44	+ 1 29.2	1.838	2.665	15.2	21.4
8 19	23 55.92	+ 2 25.8	1.387	2.297	14.2	20.8	8 19	23 54.42	+ 0 54.9	1.750	2.657	11.9	21.2
8 29	23 49.18	+ 1 46.2	1.351	2.316	9.6	20.6	8 29	23 48.22	+ 0 4.4	1.683	2.648	8.0	20.9
9 8	23 40.70	+ 0 52.1	1.337	2.335	4.6	20.4	9 8	23 40.37	- 0 58.8	1.641	2.640	3.7	20.6
9 18	23 31.54	- 0 10.0	1.349	2.353	1.4	20.2	9 18	23 31.66	- 2 8.9	1.626	2.630	1.0	20.4
9 28	23 22.93	- 1 11.9	1.388	2.372	6.0	20.6	9 28	23 23.12	- 3 18.7	1.640	2.621	5.6	20.7
10 8	23 15.96	- 2 5.6	1.452	2.390	10.5	20.9	10 8	23 15.75	- 4 20.8	1.679	2.611	9.9	21.0
10 18	23 11.36	- 2 45.9	1.538	2.409	14.4	21.2	10 18	23 10.32	- 5 9.7	1.743	2.600	13.7	21.2
306385	1994 <i>AE</i> ₁₀		9 15.5 168°04	1°5/14.1	18		515240	2012 <i>CQ</i> ₇		9 15.6 147°26	3°0/19.3	18	
8 9	23 59.72	- 4 19.4	2.001	2.839	13.8	21.4	8 9	23 56.82	+ 9 23.5	2.729	3.499	12.3	21.6
8 19	23 55.08	- 4 57.7	1.926	2.842	10.5	21.2	8 19	23 52.37	+ 9 27.7	2.644	3.506	10.0	21.5
8 29	23 48.44	- 5 45.9	1.874	2.845	6.9	20.9	8 29	23 46.44	+ 9 18.3	2.580	3.512	7.4	21.3
9 8	23 40.36	- 6 39.3	1.847	2.848	3.0	20.7	9 8	23 39.46	+ 8 56.3	2.541	3.518	4.7	21.2
9 18	23 31.63	- 7 32.2	1.849	2.850	2.2	20.7	9 18	23 31.98	+ 8 23.6	2.531	3.524	3.0	21.1
9 28	23 23.19	- 8 18.5	1.879	2.851	6.0	20.9	9 28	23 24.68	+ 7 43.7	2.550	3.529	4.1	21.1
10 8	23 15.90	- 8 53.4	1.935	2.852	9.7	21.1	10 8	23 18.18	+ 7 0.7	2.598	3.534	6.6	21.3
10 18	23 10.44	- 9 13.9	2.016	2.853	12.9	21.4	10 18	23 13.01	+ 6 19.1	2.673	3.539	9.2	21.5
120794	1998 <i>FX</i> ₅₃		9 15.5 218°20	1°4/17.1	18		353971	2000 <i>AE</i> ₂₁₀		9 15.6 72°31	6°0/30.2	18	
8 9	23 58.85	+ 4 13.3	2.260	3.062	13.5	21.1	8 9	23 50.90	+32 27.7	4.575	5.145	9.9	20.0
8 19	23 54.33	+ 3 54.0	2.163	3.053	10.8	20.9	8 19	23 47.48	+32 53.6	4.475	5.146	9.1	19.9
8 29	23 47.95	+ 3 20.2	2.089	3.044	7.5	20.7	8 29	23 43.07	+33 5.4	4.392	5.147	8.1	19.8
9 8	23 40.18	+ 2 34.0	2.040	3.033	3.9	20.4	9 8	23 37.95	+33 2.1	4.330	5.148	7.1	19.8
9 18	23 31.68	+ 1 39.1	2.019	3.022	1.5	20.2	9 18	23 32.47	+32 43.6	4.291	5.149	6.4	19.7
9 28	23 23.29	+ 0 40.9	2.028	3.011	4.6	20.4	9 28	23 27.07	+32 10.7	4.277	5.150	6.0	19.7
10 8	23 15.85	- 0 15.0	2.065	2.998	8.2	20.6	10 8	23 22.15	+31 25.7	4.289	5.151	6.1	19.7
10 18	23 10.02	- 1 3.4	2.128	2.985	11.6	20.8	10 18	23 18.07	+30 31.4	4.326	5.152	6.8	19.7
69744	1998 <i>KM</i> ₅₆		9 15.6 83°33	0°7/16.3	18		116805	2004 <i>EP</i> ₇₁		9 15.6 11°54	0°6/15.2	18	
8 9	23 58.12	+ 2 58.8	1.772	2.596	15.8	19.9	8 9	23 57.19	- 2 46.9	1.101	1.977	20.0	18.8
8 19	23 53.92	+ 2 17.0	1.713	2.618	12.3	19.7	8 19	23 54.47	- 2 49.7	1.044	1.979	15.5	18.5
8 29	23 47.66	+ 1 18.4	1.675	2.639	8.2	19.5	8 29	23 48.69	- 3 8.1	1.005	1.983	10.2	18.3
9 8	23 40.00	+ 0 7.7	1.662	2.660	3.8	19.3	9 8	23 40.65	- 3 36.9	0.986	1.988	4.4	18.0
9 18	23 31.79	- 1 8.7	1.677	2.681	1.0	19.1	9 18	23 31.60	- 4 9.3	0.991	1.994	1.8	17.8
9 28	23 24.03	- 2 23.2	1.719	2.701	5.3	19.5	9 28	23 23.11	- 4 36.9	1.018	2.002	7.6	18.2
10 8	23 17.58	- 3 28.9	1.788	2.722	9.3	19.8	10 8	23 16.56	- 4 52.7	1.068	2.011	12.9	18.5
10 18	23 13.08	- 4 20.8	1.881	2.742	12.7	20.0	10 18	23 12.85	- 4 52.9	1.137	2.021	17.5	18.8
17870	1998 <i>QU</i> ₉₂		9 15.6 339°00	6°4/10.9	18		131168	2001 <i>CR</i> ₃₂		9 15.6 149°10	5°9/10.3	18	
8 9	23 56.56	-13 20.3	1.186	2.076	17.8	16.8	8 9	0 3.61	-18 7.6	1.963	2.816	13.4	19.7
8 19	23 54.03	-14 19.6	1.121	2.064	13.9	16.5	8 19	23 58.09	-18 55.6	1.901	2.821	10.5	19.5
8 29	23 48.47	-15 25.1	1.076	2.054	9.7	16.3	8 29	23 50.41	-19 42.0	1.863	2.825	7.7	19.4
9 8	23 40.59	-16 26.6	1.052	2.045	6.6	16.1	9 8	23 41.23	-20 20.1	1.850	2.829	5.9	19.3
9 18	23 31.57	-17 13.0	1.050	2.036	7.6	16.1	9 18	23 31.43	-20 43.5	1.864	2.833	6.6	19.3
9 28	23 22.95	-17 35.3	1.072	2.029	11.5	16.3	9 28	23 22.07	-20 48.0	1.905	2.837	9.1	19.5
10 8	23 16.16	-17 29.1	1.114	2.023	15.9	16.5	10 8	23 14.09	-20 32.1	1.971	2.840	12.0	19.7
10 18	23 12.17	-16 55.0	1.175	2.018	19.9	16.8	10 18	23 8.16	-19 57.1	2.060	2.843	14.6	19.9
307121	2002 <i>CX</i> ₁₂₃		9 15.6 233°07	0°4/15.2	18		390296	2013 <i>AD</</i>					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
167120	2003 <i>SR</i> ₉₈		9 15.6 351 ^o .78	9 ^o .1/23.1 18			225018	2007 <i>EJ</i> ₂₀₆		9 15.6 298 ^o .39	2 ^o .4/13.9 18		
8 9	23 58.44	+18 15.8	1.591	2.350	20.0	19.8	8 9	0 0.21	- 6 20.0	1.456	2.317	16.8	20.3
8 19	23 54.97	+19 26.7	1.510	2.346	17.4	19.6	8 19	23 56.57	- 6 42.9	1.365	2.294	13.1	20.0
8 29	23 48.89	+20 13.4	1.445	2.343	14.4	19.4	8 29	23 50.12	- 7 17.1	1.294	2.270	8.7	19.7
9 8	23 40.77	+20 31.7	1.401	2.341	11.5	19.2	9 8	23 41.41	- 7 57.1	1.246	2.247	4.0	19.4
9 18	23 31.54	+20 19.9	1.379	2.339	9.4	19.1	9 18	23 31.39	- 8 35.9	1.223	2.224	3.3	19.3
9 28	23 22.45	+19 40.8	1.380	2.338	9.4	19.1	9 28	23 21.42	- 9 5.6	1.226	2.201	8.1	19.5
10 8	23 14.77	+18 41.6	1.405	2.337	11.4	19.2	10 8	23 12.90	- 9 20.0	1.252	2.178	13.1	19.7
10 18	23 9.44	+17 32.1	1.453	2.337	14.3	19.4	10 18	23 6.88	- 9 15.7	1.300	2.155	17.5	20.0
124016	2001 <i>FJ</i> ₁₀₃		9 15.6 178 ^o .84	0 ^o .1/15.6 18			369042	2008 <i>CS</i> ₁₇		9 15.6 302 ^o .63	2 ^o .5/17.2 18		
8 9	23 55.51	- 0 15.5	2.645	3.463	11.4	20.7	8 9	0 0.21	+ 2 45.9	1.335	2.177	19.1	21.2
8 19	23 51.41	- 0 42.3	2.561	3.464	8.8	20.5	8 19	23 56.86	+ 3 9.5	1.244	2.156	15.4	20.9
8 29	23 45.83	- 1 18.8	2.500	3.464	5.8	20.4	8 29	23 50.49	+ 3 16.0	1.170	2.134	10.9	20.6
9 8	23 39.21	- 2 2.2	2.466	3.465	2.6	20.1	9 8	23 41.64	+ 3 6.0	1.119	2.114	5.9	20.2
9 18	23 32.10	- 2 48.7	2.461	3.465	0.8	20.0	9 18	23 31.30	+ 2 42.3	1.090	2.093	2.6	20.0
9 28	23 25.15	- 3 34.1	2.485	3.465	4.1	20.2	9 28	23 20.95	+ 2 11.1	1.087	2.073	6.9	20.2
10 8	23 19.01	- 4 14.2	2.538	3.464	7.3	20.5	10 8	23 12.11	+ 1 40.1	1.107	2.053	12.3	20.4
10 18	23 14.19	- 4 45.7	2.617	3.463	10.0	20.6	10 18	23 5.99	+ 1 16.4	1.149	2.034	17.2	20.7
147030	2002 <i>RE</i> ₃₁		9 15.6 354 ^o .14	3 ^o .0/18.1 18			28498	2000 <i>CL</i> ₇₀		9 15.6 49 ^o .66	3 ^o .3/18.8 18		
8 9	23 51.28	+ 7 21.9	1.162	2.012	20.8	19.6	8 9	23 54.84	+10 50.3	1.290	2.112	20.7	17.5
8 19	23 49.92	+ 7 2.8	1.092	2.007	16.8	19.3	8 19	23 52.12	+10 2.3	1.238	2.134	16.7	17.3
8 29	23 45.75	+ 6 14.2	1.039	2.003	12.0	19.0	8 29	23 46.83	+ 8 43.7	1.203	2.156	12.0	17.1
9 8	23 39.43	+ 4 58.8	1.007	2.000	6.7	18.7	9 8	23 39.76	+ 6 58.8	1.190	2.178	6.9	16.9
9 18	23 32.02	+ 3 23.6	0.996	1.998	3.0	18.5	9 18	23 32.00	+ 4 56.9	1.201	2.201	3.3	16.7
9 28	23 24.92	+ 1 40.5	1.009	1.998	6.7	18.7	9 28	23 24.82	+ 2 50.7	1.237	2.224	6.0	17.0
10 8	23 19.49	+ 0 2.8	1.045	1.998	12.0	19.0	10 8	23 19.31	+ 0 53.0	1.299	2.248	10.6	17.3
10 18	23 16.66	- 1 18.6	1.102	2.000	16.8	19.3	10 18	23 16.17	- 0 46.3	1.384	2.272	14.7	17.6
14173	1998 <i>VL</i> ₉		9 15.6 327 ^o .80	4 ^o .1/12.4 18			120557	1995 <i>DY</i> ₃		9 15.6 353 ^o .88	4 ^o .3/18.4 18		
8 9	23 59.08	- 9 33.3	1.396	2.267	16.8	17.7	8 9	23 59.38	+ 5 36.2	1.291	2.126	20.0	18.5
8 19	23 55.51	-10 20.7	1.327	2.261	12.9	17.4	8 19	23 56.02	+ 6 23.6	1.217	2.122	16.3	18.2
8 29	23 49.22	-11 16.8	1.278	2.256	8.6	17.2	8 29	23 49.74	+ 6 52.1	1.162	2.118	11.9	18.0
9 8	23 40.88	-12 13.8	1.253	2.250	4.8	17.0	9 8	23 41.20	+ 7 1.1	1.127	2.115	7.2	17.7
9 18	23 31.57	-13 3.0	1.252	2.246	5.1	17.0	9 18	23 31.49	+ 6 52.2	1.116	2.114	4.4	17.5
9 28	23 22.62	-13 36.2	1.276	2.241	9.2	17.2	9 28	23 22.07	+ 6 30.5	1.128	2.113	6.9	17.7
10 8	23 15.29	-13 48.3	1.324	2.237	13.5	17.4	10 8	23 14.33	+ 6 3.6	1.165	2.113	11.5	18.0
10 18	23 10.46	-13 38.1	1.392	2.234	17.4	17.7	10 18	23 9.29	+ 5 38.8	1.222	2.114	15.9	18.2
357343	2003 <i>QJ</i> ₂₃		9 15.6 37 ^o .94	0 ^o .1/15.6 18			221119	2005 <i>SY</i> ₂₁₈		9 15.6 20 ^o .79	9 ^o .4/11.5 17		
8 9	23 51.65	+ 5 44.6	1.738	2.565	16.0	19.2	8 9	0 7.28	-21 51.5	1.010	1.897	20.4	18.4
8 19	23 49.04	+ 3 52.8	1.679	2.587	12.3	19.0	8 19	0 2.37	-22 10.7	0.971	1.906	16.3	18.2
8 29	23 44.51	+ 1 38.6	1.643	2.609	8.1	18.8	8 29	23 53.81	-22 20.6	0.950	1.918	12.3	18.0
9 8	23 38.67	- 0 50.2	1.633	2.632	3.6	18.6	9 8	23 42.80	-22 10.4	0.949	1.930	9.6	17.9
9 18	23 32.32	- 3 23.1	1.652	2.656	1.1	18.5	9 18	23 31.07	-21 32.9	0.969	1.945	10.1	18.0
9 28	23 26.36	- 5 48.4	1.700	2.680	5.6	18.8	9 28	23 20.52	-20 26.2	1.012	1.960	13.2	18.3
10 8	23 21.60	- 7 56.1	1.776	2.704	9.7	19.1	10 8	23 12.63	-18 54.3	1.076	1.977	17.0	18.5
10 18	23 18.60	- 9 40.0	1.877	2.729	13.1	19.4	10 18	23 8.13	-17 3.6	1.158	1.996	20.4	18.8
76472	2000 <i>FP</i> ₅₇		9 15.6 290 ^o .65	2 ^o .3/13.4 18			36040	1999 <i>PF</i> ₆		9 15.6 46 ^o .86	1 ^o .2/16.8 18		
8 9	23 57.00	- 6 16.5	1.846	2.698	14.1	19.4	8 9	23 56.67	+ 2 33.6	2.109	2.927	13.9	19.4
8 19	23 53.29	- 6 58.7	1.764	2.689	10.8	19.2	8 19	23 52.69	+ 2 23.5	2.029	2.929	10.9	19.3
8 29	23 47.46	- 7 50.7	1.705	2.680	7.1	18.9	8 29	23 46.88	+ 2 0.3	1.971	2.931	7.5	19.0
9 8	23 40.05	- 8 47.0	1.671	2.671	3.3	18.7	9 8	23 39.74	+ 1 26.3	1.938	2.933	3.7	18.8
9 18	23 31.86	- 9 41.3	1.663	2.662	3.1	18.6	9 18	23 31.99	+ 0 45.4	1.932	2.936	1.3	18.6
9 28	23 23.86	-10 26.7	1.683	2.653	6.9	18.9	9 28	23 24.46	+ 0 2.5	1.955	2.938	4.6	18.9
10 8	23 17.03	-10 58.1	1.729	2.644	10.8	19.1	10 8	23 17.96	- 0 37.2	2.005	2.941	8.3	19.1
10 18	23 12.11	-11 12.6	1.797	2.635	14.2	19.3	10 18	23 13.12	- 1 9.3	2.080	2.943	11.5	19.3
138868	2000 <i>XR</i> ₁₅		9 15.6 32 ^o .38	10 ^o .4/17.9 18			395386	2011 <i>SB</i> ₅₄		9 15.6 350 ^o .02	2 ^o .6/13.3 18		
8 9	0 16.01	+ 3 1.5	0.549	1.438	31.8	18.0	8 9	23 59.01	- 8 3.2	1.781	2.636	14.5	20.8
8 19	0 11.52	+ 6 10.3	0.510	1.444	26.2	17.7	8 19	23 54.82	- 8 32.7	1.709	2.634	11.1	20.6
8 29	0 1.34	+ 9 2.4	0.484	1.452	19.8	17.4	8 29	23 48.44	- 9 9.5	1.658	2.633	7.3	20.3
9 8	23 46.61	+11 24.7	0.472	1.461	13.5	17.2	9 8	23 40.46	- 9 48.1	1.633	2.632	3.6	20.1
9 18	23 29.76	+13 4.7	0.477	1.470	10.4	17.1	9 18	23 31.76	-10 22.5	1.634	2.631	3.4	20.1
9 28	23 14.20	+14 0.2	0.499	1.481	13.3	17.3	9 28	23 23.36	-10 47.0	1.662	2.630	7.0	20.3
10 8	23 2.82	+14 21.4	0.538	1.493	18.8	17.7	10 8	23 16.26	-10 57.7	1.715	2.630	10.9	20.6
10 18	22 57.02	+14 23.6	0.590	1.505	24.1	18.1	10 18	23 11.17	-10 52.5	1.791	2.630	14.3	20.8
38006	1998 <i>KD</i> ₄₈		9 15.6 106 ^o .75	7 ^o .6/ 7.9 18			7486	Hamabe		9 15.6 330 ^o .16	3 ^o .8/13.1 18		
8 9	0 0.75	-21 6.1	1.840	2.702	13.7	18.5	8 9	23 56.17	- 7 33.8	1.073	1.962	19.4	17.3
8 19	23 56.05	-22 30.9	1.793	2.713	11.0	18.3	8 19	23 54.09	- 8 10.3	1.003	1.946	15.0	17.0
8 29	23 49.14	-23 52.0	1.768	2.723	8.6	18.2	8 29	23 48.77	- 9 0.3	0.950	1.932	10.0	16.7
9 8	23 40.71	-25 0.6	1.769	2.734	7.6	18.2	9 8	23 40.87	- 9 55.6	0.918	1.919	4.9	16.3
9 18	23 31.68	-25 49.1	1.796	2.744	8.6	18.3	9 18	23 31.59	-10 46.1	0.908	1.907	4.9	16.3
9 28	23 23.14	-26 12.6	1.847	2.754	10.9	18.4	9 28	23 22.61	-11 21.0	0.920	1.895	10.1	16.6
10 8	23 16.04	-26 10.0	1.922	2.763	13.4	18.6	10 8	23 15.53	-11 33.1	0.954	1.885	15.5	16.8
10 18	23 11.03	-25 43.1	2.017	2.773	15.8	18.8	10 18						

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
339075	2004 <i>RE</i> ₂		9 15.6	87°98'	17.7°	3.5 16	444237	2005 <i>UL</i> ₁₁₁		9 15.6	357°28'	14.5°	6.9 17
8 9	0 0.88	+34 39.6	1.219	1.898	28.7	20.5	8 9	0 0.88	-32 59.9	1.133	2.012	19.3	19.0
8 19	23 58.10	+36 32.2	1.157	1.904	26.6	20.3	8 19	23 57.69	-33 50.6	1.088	2.003	16.9	18.8
8 29	23 51.66	+37 44.0	1.105	1.911	24.2	20.2	8 29	23 50.92	-34 20.9	1.061	1.995	15.1	18.7
9 8	23 42.23	+38 4.8	1.064	1.917	21.6	20.0	9 8	23 41.64	-34 18.1	1.052	1.991	14.5	18.6
9 18	23 31.14	+37 27.1	1.038	1.923	19.4	19.9	9 18	23 31.45	-33 34.0	1.062	1.988	15.4	18.7
9 28	23 20.37	+35 51.1	1.029	1.929	18.0	19.8	9 28	23 22.20	-32 6.5	1.092	1.989	17.5	18.8
10 8	23 11.81	+33 27.4	1.039	1.936	17.9	19.8	10 8	23 15.37	-30 1.1	1.141	1.991	20.0	19.0
10 18	23 6.78	+30 33.9	1.068	1.942	19.1	20.0	10 18	23 11.75	-27 27.0	1.206	1.996	22.6	19.2
226455	2003 <i>SK</i> ₁₀₅		9 15.6	4°26'	3°2'	18.9 18	389336	2009 <i>SN</i> ₃₀₆		9 15.6	264°78'	0°1'	15.5 16
8 9	23 53.06	+ 8 7.8	1.867	2.675	15.7	19.8	8 9	23 48.30	- 0 52.5	4.445	5.259	7.2	21.5
8 19	23 50.20	+ 8 5.1	1.787	2.675	12.7	19.6	8 19	23 45.38	- 1 22.2	4.351	5.253	5.5	21.3
8 29	23 45.38	+ 7 43.5	1.728	2.676	9.3	19.3	8 29	23 41.65	- 1 57.7	4.283	5.247	3.6	21.2
9 8	23 39.13	+ 7 4.6	1.692	2.677	5.6	19.1	9 8	23 37.36	- 2 37.0	4.242	5.241	1.6	21.0
9 18	23 32.18	+ 6 11.9	1.681	2.679	3.2	19.0	9 18	23 32.80	- 3 18.1	4.232	5.235	0.5	20.9
9 28	23 25.46	+ 5 11.0	1.698	2.682	5.0	19.1	9 28	23 28.31	- 3 58.4	4.251	5.229	2.6	21.1
10 8	23 19.84	+ 4 9.2	1.740	2.685	8.6	19.3	10 8	23 24.22	- 4 35.6	4.300	5.224	4.6	21.3
10 18	23 15.99	+ 3 12.9	1.807	2.689	12.1	19.6	10 18	23 20.84	- 5 7.6	4.377	5.218	6.4	21.4
362450	2010 <i>RW</i> ₁₀₇		9 15.6	353°93'	2°0'	18.0 18	143299	2003 <i>AC</i> ₃₉		9 15.6	242°86'	1°0'	14.6 18
8 9	23 53.32	+ 7 29.6	2.140	2.942	14.2	21.4	8 9	23 57.52	- 1 15.0	1.818	2.657	14.9	20.7
8 19	23 50.14	+ 6 51.2	2.054	2.942	11.4	21.2	8 19	23 53.79	- 2 9.2	1.729	2.645	11.5	20.5
8 29	23 45.21	+ 5 54.4	1.990	2.942	8.1	21.0	8 29	23 47.88	- 3 19.0	1.662	2.634	7.6	20.3
9 8	23 39.02	+ 4 41.9	1.951	2.941	4.5	20.8	9 8	23 40.30	- 4 39.6	1.621	2.621	3.2	20.0
9 18	23 32.22	+ 3 18.3	1.940	2.941	2.0	20.6	9 18	23 31.83	- 6 3.9	1.606	2.609	1.9	19.8
9 28	23 25.61	+ 1 50.2	1.957	2.941	4.5	20.8	9 28	23 23.51	- 7 23.4	1.620	2.596	6.3	20.1
10 8	23 19.96	+ 0 25.1	2.002	2.941	8.0	21.0	10 8	23 16.34	- 8 30.7	1.660	2.582	10.6	20.3
10 18	23 15.87	- 0 50.9	2.072	2.941	11.3	21.2	10 18	23 11.11	- 9 20.6	1.723	2.569	14.4	20.5
449062	2012 <i>FO</i> ₆		9 15.6	292°78'	1°9'	17.8 18	312799	2010 <i>WF</i> ₅₄		9 15.6	340°84'	1°8'	18.8 16
8 9	23 53.62	+ 6 20.8	2.137	2.944	14.1	21.3	8 9	23 49.82	+ 7 7.9	3.912	4.690	8.7	20.6
8 19	23 50.48	+ 5 55.5	2.040	2.930	11.3	21.1	8 19	23 46.66	+ 7 2.9	3.816	4.687	7.0	20.5
8 29	23 45.52	+ 5 12.8	1.964	2.917	8.0	20.9	8 29	23 42.55	+ 6 48.9	3.744	4.684	5.1	20.3
9 8	23 39.20	+ 4 14.9	1.913	2.904	4.4	20.6	9 8	23 37.77	+ 6 27.1	3.698	4.681	3.1	20.2
9 18	23 32.16	+ 3 5.7	1.889	2.891	2.0	20.4	9 18	23 32.67	+ 5 59.1	3.681	4.678	1.8	20.1
9 28	23 25.22	+ 1 51.1	1.893	2.877	4.6	20.6	9 28	23 27.65	+ 5 27.2	3.693	4.675	2.8	20.2
10 8	23 19.20	+ 0 38.1	1.925	2.864	8.3	20.8	10 8	23 23.11	+ 4 54.1	3.735	4.672	4.8	20.3
10 18	23 14.76	- 0 27.1	1.982	2.852	11.7	21.0	10 18	23 19.39	+ 4 22.5	3.804	4.669	6.7	20.5
494389	2016 <i>UR</i> ₄₉		9 15.6	313°26'	6°7'	21.7 16	252159	2001 <i>CN</i> ₁₀		9 15.6	233°13'	3°1'	8.4 18
8 9	23 53.49	+15 14.5	1.592	2.376	19.0	21.6	8 9	23 48.71	-18 26.3	4.670	5.518	6.3	20.0
8 19	23 51.22	+15 36.5	1.492	2.354	16.3	21.3	8 19	23 45.68	-19 17.4	4.598	5.515	4.9	19.9
8 29	23 46.50	+15 32.5	1.409	2.332	13.0	21.0	8 29	23 41.84	-20 7.9	4.553	5.511	3.6	19.8
9 8	23 39.80	+14 59.9	1.347	2.311	9.5	20.8	9 8	23 37.44	-20 55.0	4.536	5.507	3.1	19.8
9 18	23 31.93	+13 59.3	1.307	2.290	7.0	20.6	9 18	23 32.78	-21 36.1	4.548	5.504	3.6	19.8
9 28	23 24.04	+12 35.6	1.292	2.269	7.5	20.6	9 28	23 28.20	-22 8.9	4.589	5.500	4.8	19.9
10 8	23 17.35	+10 58.4	1.302	2.249	10.7	20.7	10 8	23 24.04	-22 31.8	4.657	5.496	6.1	20.0
10 18	23 12.86	+ 9 18.8	1.335	2.230	14.6	20.9	10 18	23 20.60	-22 44.2	4.749	5.492	7.4	20.1
239644	2008 <i>WX</i> ₅₃		9 15.6	225°90'	6°9'	8.6 18	476221	2007 <i>UA</i> ₁₃₀		9 15.6	342°69'	2°1'	17.7 17
8 9	0 2.11	-20 33.1	2.002	2.857	13.1	21.1	8 9	23 45.45	+ 8 26.8	1.266	2.114	19.5	20.3
8 19	23 57.11	-21 39.4	1.933	2.850	10.4	20.9	8 19	23 45.26	+ 7 29.0	1.182	2.097	15.8	20.0
8 29	23 49.90	-22 43.6	1.887	2.843	8.1	20.7	8 29	23 42.64	+ 5 57.2	1.117	2.082	11.2	19.7
9 8	23 41.10	-23 38.0	1.867	2.835	6.9	20.6	9 8	23 38.11	+ 3 54.7	1.072	2.068	6.0	19.4
9 18	23 31.57	-24 15.3	1.873	2.827	7.8	20.7	9 18	23 32.54	+ 1 30.4	1.052	2.055	2.1	19.1
9 28	23 22.34	-24 30.6	1.905	2.819	10.2	20.8	9 28	23 27.15	- 1 1.2	1.056	2.044	6.4	19.4
10 8	23 14.41	-24 22.0	1.961	2.810	12.9	21.0	10 8	23 23.14	- 3 23.9	1.083	2.035	11.8	19.6
10 18	23 8.49	-23 50.7	2.039	2.801	15.4	21.1	10 18	23 21.43	- 5 24.6	1.133	2.027	16.7	19.9
6497	Yamasaki		9 15.6	357°19'	4°9'	19.2 18 R	359723	2011 <i>UL</i> ₁₃		9 15.6	313°34'	2°8'	13.2 18
8 9	23 49.05	+ 8 16.6	0.967	1.831	23.0	16.3	8 9	23 57.09	- 7 41.1	1.679	2.540	14.9	20.6
8 19	23 48.66	+ 8 38.5	0.904	1.825	18.9	16.1	8 19	23 53.70	- 8 14.2	1.591	2.520	11.5	20.3
8 29	23 45.18	+ 8 29.6	0.857	1.820	14.0	15.8	8 29	23 47.95	- 8 56.4	1.524	2.501	7.6	20.1
9 8	23 39.28	+ 7 50.1	0.827	1.817	8.7	15.5	9 8	23 40.38	- 9 42.3	1.482	2.481	3.7	19.8
9 18	23 32.14	+ 6 44.5	0.817	1.816	5.0	15.3	9 18	23 31.82	-10 25.0	1.465	2.463	3.6	19.7
9 28	23 25.36	+ 5 23.5	0.828	1.817	7.5	15.4	9 28	23 23.40	-10 57.6	1.475	2.444	7.6	19.9
10 8	23 20.46	+ 4 0.9	0.860	1.820	12.7	15.7	10 8	23 16.21	-11 14.9	1.509	2.427	11.8	20.1
10 18	23 18.48	+ 2 49.2	0.910	1.825	17.7	16.0	10 18	23 11.12	-11 14.1	1.565	2.409	15.6	20.3
37764	1997 <i>GT</i> ₃		9 15.6	53°00'	2°3'	13.5 18 R	444205	2005 <i>SM</i> ₂₈₅		9 15.6	270°49'	1°3'	17.3 18
8 9	23 59.44	- 8 17.8	2.044	2.890	13.2	18.0	8 9	23 52.72	+ 7 4.4	2.226	3.029	13.7	20.8
8 19	23 54.78	- 8 38.6	1.976	2.897	10.1	17.8	8 19	23 49.67	+ 6 0.4	2.132	3.022	10.9	20.6
8 29	23 48.21	- 9 4.8	1.932	2.905	6.6	17.6	8 29	23 44.93	+ 4 36.7	2.060	3.014	7.6	20.4
9 8	23 40.31	- 9 31.9	1.913	2.912	3.2	17.4	9 8	23 38.93	+ 2 56.7	2.013	3.006	3.9	20.2
9 18	23 31.85	- 9 55.2	1.923	2.920	2.9	17.4	9 18	23 32.31	+ 1 6.1	1.995	2.999	1.3	20.0
9 28	23 23.73	-10 10.4	1.960	2.928	6.2	17.7	9 28	23 25.82	- 0 47.3	2.008	2.991	4.5	20.2
10 8	23 16.79	-10 14.3	2.023	2.936	9.6	17.9	10 8	23 20.22	- 2 35.5	2.048	2.983	8.2	20.4
10 18	23 11.63	-10 5.4	2.111	2.944	12.6	18.1	10 18	23 16.12	- 4 11.5	2.115	2.976	11.5	20.6
64922	2001 <i>YO</i> ₁₀₄		9 15.6	47°06'	4°4'	10.6 18	330578	2008					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
139001	2001 <i>DS</i> ₃₀		9 15.6 142°53	2°9/13.3	17		209820	2005 <i>GB</i> ₁₀₂		9 15.6 115°43	0°4/15.1	18	
8 9	0 1.64	- 7 3.5	1.567	2.422	16.1	20.6	8 9	23 57.70	- 0 57.9	2.100	2.929	13.5	21.6
8 19	23 57.11	- 7 47.5	1.500	2.426	12.3	20.3	8 19	23 53.42	- 1 37.0	2.031	2.941	10.4	21.4
8 29	23 50.08	- 8 41.2	1.455	2.430	8.0	20.1	8 29	23 47.32	- 2 27.8	1.985	2.953	6.8	21.2
9 8	23 41.24	- 9 38.0	1.434	2.434	3.9	19.9	9 8	23 39.97	- 3 26.1	1.964	2.964	2.9	21.0
9 18	23 31.59	-10 30.3	1.440	2.437	3.7	19.9	9 18	23 32.07	- 4 26.5	1.972	2.975	1.2	20.9
9 28	23 22.36	-11 10.6	1.472	2.440	7.8	20.1	9 28	23 24.48	- 5 23.1	2.009	2.986	5.1	21.2
10 8	23 14.65	-11 34.1	1.529	2.443	11.9	20.4	10 8	23 17.98	- 6 10.7	2.072	2.997	8.7	21.5
10 18	23 9.26	-11 38.5	1.608	2.446	15.6	20.6	10 18	23 13.15	- 6 45.8	2.161	3.008	11.8	21.7
506230	2016 <i>LR</i> ₃₂		9 15.6 23°79	4°6/11.8	17		359355	2009 <i>SC</i> ₃₅₅		9 15.6 268°83	0°2/15.9	16	
8 9	23 57.72	- 8 42.5	1.275	2.152	17.6	20.6	8 9	23 48.31	+ 0 18.2	4.494	5.303	7.2	21.6
8 19	23 54.60	- 9 57.0	1.216	2.155	13.5	20.4	8 19	23 45.40	- 0 8.6	4.399	5.297	5.6	21.5
8 29	23 48.67	-11 22.8	1.178	2.157	8.9	20.1	8 29	23 41.69	- 0 41.4	4.329	5.291	3.7	21.3
9 8	23 40.69	-12 50.1	1.162	2.160	5.1	19.9	9 8	23 37.42	- 1 18.5	4.287	5.285	1.7	21.2
9 18	23 31.78	-14 7.6	1.171	2.163	5.8	20.0	9 18	23 32.88	- 1 57.9	4.275	5.279	0.5	21.1
9 28	23 23.34	-15 5.4	1.204	2.166	9.9	20.2	9 28	23 28.42	- 2 37.1	4.293	5.273	2.5	21.2
10 8	23 16.65	-15 37.4	1.260	2.170	14.3	20.5	10 8	23 24.35	- 3 13.9	4.341	5.267	4.5	21.4
10 18	23 12.55	-15 42.4	1.335	2.174	18.1	20.8	10 18	23 20.98	- 3 46.0	4.416	5.262	6.3	21.5
79444	1997 <i>UM</i> ₂₆		9 15.6 10°44	0°4/14.8	17		407145	2009 <i>TP</i> ₂₈		9 15.6 193°32	1°1/16.9	18	
8 9	23 48.38	- 2 22.3	4.208	5.029	7.4	19.6	8 9	23 53.80	+ 4 11.5	2.477	3.285	12.3	21.7
8 19	23 45.48	- 2 57.1	4.123	5.030	5.7	19.4	8 19	23 50.28	+ 3 37.4	2.391	3.284	9.7	21.5
8 29	23 41.74	- 3 37.4	4.062	5.030	3.7	19.3	8 29	23 45.22	+ 2 49.6	2.326	3.284	6.7	21.3
9 8	23 37.42	- 4 21.1	4.030	5.030	1.6	19.1	9 8	23 39.06	+ 1 50.8	2.288	3.283	3.4	21.1
9 18	23 32.83	- 5 5.6	4.028	5.031	0.8	19.1	9 18	23 32.37	+ 0 45.1	2.278	3.282	1.1	20.9
9 28	23 28.33	- 5 48.4	4.056	5.031	2.9	19.2	9 28	23 25.84	- 0 22.3	2.298	3.281	4.1	21.2
10 8	23 24.27	- 6 26.9	4.113	5.032	4.9	19.4	10 8	23 20.14	- 1 26.1	2.346	3.280	7.3	21.4
10 18	23 20.95	- 6 59.1	4.197	5.033	6.8	19.5	10 18	23 15.81	- 2 21.5	2.419	3.279	10.3	21.6
231247	2005 <i>YB</i> ₁₃₁		9 15.6 66°33	6°2/ 9.4	17		385047	2012 <i>UU</i> ₁₇		9 15.6 166°93	2°2/13.4	18	
8 9	23 57.11	-13 50.0	1.583	2.456	15.0	19.7	8 9	23 58.32	- 5 35.2	1.916	2.762	13.9	21.7
8 19	23 53.57	-15 29.5	1.532	2.466	11.5	19.5	8 19	23 54.17	- 6 25.8	1.843	2.764	10.7	21.5
8 29	23 47.69	-17 13.0	1.504	2.476	8.1	19.3	8 29	23 47.97	- 7 26.4	1.792	2.766	6.9	21.3
9 8	23 40.17	-18 50.4	1.500	2.486	6.2	19.2	9 8	23 40.32	- 8 31.2	1.767	2.767	3.2	21.1
9 18	23 31.97	-20 11.7	1.522	2.496	7.3	19.3	9 18	23 31.98	- 9 33.6	1.770	2.769	2.9	21.1
9 28	23 24.22	-21 9.2	1.570	2.506	10.3	19.5	9 28	23 23.93	-10 27.1	1.801	2.770	6.6	21.3
10 8	23 17.94	-21 39.4	1.641	2.517	13.6	19.8	10 8	23 17.05	-11 6.5	1.858	2.770	10.3	21.5
10 18	23 13.83	-21 42.6	1.732	2.527	16.5	20.0	10 18	23 12.03	-11 29.0	1.938	2.771	13.5	21.7
467855	2010 <i>WE</i> ₁₅		9 15.6 303°25	1°5/18.7	16		295994	2008 <i>YA</i> ₉₂		9 15.6 215°34	2°8/12.8	18	
8 9	23 48.73	+ 7 7.8	4.297	5.073	8.0	21.4	8 9	23 57.84	- 7 33.8	1.923	2.775	13.7	21.2
8 19	23 45.76	+ 6 53.5	4.200	5.070	6.4	21.2	8 19	23 53.83	- 8 25.3	1.848	2.773	10.5	21.0
8 29	23 41.93	+ 6 30.7	4.126	5.066	4.6	21.1	8 29	23 47.77	- 9 25.3	1.796	2.770	6.8	20.8
9 8	23 37.51	+ 6 0.8	4.079	5.063	2.8	21.0	9 8	23 40.24	-10 27.8	1.770	2.768	3.5	20.6
9 18	23 32.81	+ 5 25.2	4.062	5.059	1.5	20.9	9 18	23 32.00	-11 26.2	1.770	2.766	3.6	20.6
9 28	23 28.19	+ 4 46.4	4.074	5.056	2.5	20.9	9 28	23 24.02	-12 14.0	1.799	2.763	7.0	20.8
10 8	23 23.99	+ 4 6.8	4.116	5.052	4.4	21.1	10 8	23 17.20	-12 46.4	1.853	2.760	10.6	21.0
10 18	23 20.53	+ 3 29.1	4.185	5.049	6.2	21.2	10 18	23 12.23	-13 1.2	1.930	2.757	13.8	21.2
218567	2005 <i>GV</i> ₁₁₃		9 15.6 85°80	1°4/14.2	17		389353	2009 <i>UC</i> ₆₀		9 15.6 251°36	1°6/12.3	18	
8 9	23 59.11	- 0 26.9	1.499	2.344	17.2	20.1	8 9	23 50.24	-10 30.8	4.458	5.295	6.7	21.3
8 19	23 55.03	- 1 49.8	1.447	2.368	13.1	19.9	8 19	23 46.85	-10 56.7	4.374	5.291	5.1	21.1
8 29	23 48.59	- 3 30.0	1.418	2.391	8.4	19.7	8 29	23 42.63	-11 24.5	4.316	5.287	3.4	21.0
9 8	23 40.53	- 5 19.2	1.413	2.414	3.5	19.5	9 8	23 37.84	-11 52.0	4.287	5.283	1.9	20.9
9 18	23 31.88	- 7 7.3	1.435	2.436	2.4	19.5	9 18	23 32.78	-12 16.9	4.288	5.278	2.0	20.9
9 28	23 23.79	- 8 43.9	1.484	2.458	7.0	19.8	9 28	23 27.81	-12 37.1	4.318	5.274	3.6	21.0
10 8	23 17.25	-10 1.2	1.559	2.480	11.3	20.1	10 8	23 23.28	-12 51.0	4.377	5.270	5.3	21.2
10 18	23 12.95	-10 55.4	1.656	2.501	14.9	20.4	10 18	23 19.48	-12 57.2	4.462	5.265	7.0	21.3
474529	2003 <i>UY</i> ₃₄₂		9 15.6 260°31	3°0/19.1	18		102820	1999 <i>VO</i> ₁₈₁		9 15.6 194°28	5°0/10.3	18	
8 9	23 54.60	+10 28.4	1.986	2.776	15.5	21.5	8 9	0 1.06	-16 4.2	2.219	3.070	12.1	20.9
8 19	23 51.42	+ 9 52.6	1.888	2.764	12.7	21.2	8 19	23 56.04	-16 59.9	2.148	3.068	9.4	20.7
8 29	23 46.26	+ 8 54.2	1.810	2.752	9.3	21.0	8 29	23 49.09	-17 56.5	2.101	3.066	6.7	20.6
9 8	23 39.60	+ 7 34.7	1.756	2.740	5.7	20.8	9 8	23 40.78	-18 47.7	2.080	3.063	5.0	20.4
9 18	23 32.14	+ 5 58.4	1.729	2.728	3.0	20.6	9 18	23 31.85	-19 27.6	2.087	3.060	5.8	20.5
9 28	23 24.78	+ 4 12.8	1.731	2.715	5.0	20.7	9 28	23 23.19	-19 51.2	2.122	3.056	8.2	20.6
10 8	23 18.44	+ 2 26.9	1.760	2.702	8.7	20.9	10 8	23 15.65	-19 56.2	2.183	3.052	11.0	20.8
10 18	23 13.84	+ 0 49.1	1.814	2.689	12.4	21.1	10 18	23 9.87	-19 42.6	2.266	3.047	13.5	21.0
186927	2004 <i>PJ</i> ₇₂		9 15.6 10°60	1°5/14.2	18		337383	2001 <i>QC</i> ₁₀₇		9 15.6 186°67	15°7/29.2	17	
8 9	23 54.21	- 3 53.3	1.644	2.502	15.3	19.8	8 9	0 4.72	+30 43.7	1.395	2.077	25.5	20.7
8 19	23 51.27	- 4 29.4	1.577	2.505	11.7	19.6	8 19	0 0.78	+32 33.1	1.319	2.077	23.4	20.5
8 29	23 46.18	- 5 17.3	1.532	2.508	7.6	19.4	8 29	23 53.37	+33 49.1	1.256	2.077	21.0	20.3
9 8	23 39.53	- 6 11.7	1.511	2.512	3.3	19.1	9 8	23 43.07	+34 22.5	1.208	2.076	18.6	20.1
9 18	23 32.19	- 7 6.0	1.515	2.517	2.3	19.1	9 18	23 31.06	+34 6.3	1.177	2.075	16.6	20.0
9 28	23 25.19	- 7 53.1	1.546	2.523	6.5	19.4	9 28	23 19.13	+33 0.0	1.165	2.073	15.7	20.0
10 8	23 19.46	- 8 27.3	1.602	2.530	10.6	19.6	10 8	23 9.09	+31 12.3	1.174	2.071	16.2	20.0
10 18	23 15.71	- 8 45.3	1.680	2.537	14.2	19.9	10 18	23 2.29	+28 57.7	1.203	2.068	18.0	20.1
469970	2006 <i>DK</i> ₁₅₁		9 15.6 63°05	1°1/16.7	16		420623						

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
228982	2003 <i>UF</i> ₃₁₆		9 15.6 285°06	1°3/17.2	18		257150	2008 <i>HF</i> ₁₇		9 15.6 100°35	4°5/ 9.9	18	
8 9	23 55.11	+ 3 30.9	2.425	3.234	12.5	21.2	8 9	23 55.66	-13 52.8	2.278	3.136	11.6	20.1
8 19	23 51.43	+ 3 19.4	2.324	3.218	10.0	21.0	8 19	23 51.79	-15 8.5	2.219	3.145	8.9	19.9
8 29	23 46.09	+ 2 55.3	2.245	3.202	6.9	20.8	8 29	23 46.23	-16 26.8	2.185	3.154	6.2	19.8
9 8	23 39.50	+ 2 20.4	2.192	3.186	3.6	20.6	9 8	23 39.51	-17 41.0	2.177	3.163	4.5	19.7
9 18	23 32.25	+ 1 37.9	2.166	3.169	1.4	20.4	9 18	23 32.30	-18 45.0	2.197	3.171	5.3	19.8
9 28	23 25.07	+ 0 52.0	2.170	3.153	4.2	20.6	9 28	23 25.36	-19 33.5	2.245	3.180	7.7	19.9
10 8	23 18.69	+ 0 7.8	2.201	3.137	7.6	20.7	10 8	23 19.43	-20 3.4	2.318	3.189	10.3	20.1
10 18	23 13.73	- 0 30.4	2.258	3.121	10.8	20.9	10 18	23 15.05	-20 14.1	2.414	3.197	12.7	20.3
259829	2004 <i>CV</i> ₁₆		9 15.6 264°85	1°3/14.5	17		319398	2006 <i>GJ</i> ₈		9 15.6 128°10	1°3/14.2	16	
8 9	23 58.91	- 2 31.6	1.618	2.465	16.0	21.7	8 9	23 58.00	- 3 0.8	1.938	2.777	14.1	21.8
8 19	23 55.22	- 3 13.1	1.529	2.450	12.5	21.4	8 19	23 53.85	- 3 50.1	1.868	2.785	10.8	21.6
8 29	23 49.06	- 4 9.9	1.461	2.434	8.2	21.1	8 29	23 47.73	- 4 50.9	1.821	2.793	7.0	21.4
9 8	23 40.95	- 5 17.1	1.417	2.418	3.5	20.8	9 8	23 40.21	- 5 58.2	1.800	2.801	3.0	21.1
9 18	23 31.79	- 6 27.4	1.400	2.402	2.2	20.7	9 18	23 32.08	- 7 5.4	1.807	2.808	2.1	21.1
9 28	23 22.74	- 7 32.2	1.409	2.385	7.0	21.0	9 28	23 24.26	- 8 5.9	1.841	2.815	5.9	21.3
10 8	23 14.99	- 8 23.9	1.443	2.369	11.7	21.2	10 8	23 17.61	- 8 54.2	1.902	2.822	9.7	21.6
10 18	23 9.45	- 8 57.5	1.500	2.352	15.8	21.4	10 18	23 12.77	- 9 26.8	1.988	2.828	12.9	21.8
443132	2014 <i>BT</i> ₁₂		9 15.6 158°35	1°1/16.8	18		321612	2009 <i>VS</i> ₈₂		9 15.6 248°08	0°8/14.9	18	
8 9	23 59.88	+ 2 51.4	2.267	3.073	13.4	22.3	8 9	23 58.75	- 1 44.0	1.825	2.663	14.9	21.7
8 19	23 55.03	+ 2 36.3	2.187	3.079	10.5	22.1	8 19	23 54.77	- 2 20.4	1.736	2.651	11.6	21.4
8 29	23 48.39	+ 2 8.4	2.128	3.085	7.2	21.9	8 29	23 48.57	- 3 10.5	1.669	2.639	7.6	21.2
9 8	23 40.48	+ 1 30.3	2.096	3.091	3.6	21.7	9 8	23 40.69	- 4 10.2	1.627	2.627	3.3	20.9
9 18	23 31.97	+ 0 45.5	2.093	3.096	1.2	21.5	9 18	23 31.91	- 5 13.3	1.612	2.615	1.6	20.7
9 28	23 23.71	- 0 0.9	2.118	3.100	4.4	21.8	9 28	23 23.28	- 6 12.7	1.624	2.602	6.1	21.0
10 8	23 16.46	- 0 44.0	2.172	3.104	7.9	22.0	10 8	23 15.81	- 7 1.7	1.663	2.589	10.4	21.2
10 18	23 10.83	- 1 19.7	2.252	3.108	11.1	22.2	10 18	23 10.30	- 7 35.9	1.725	2.575	14.2	21.4
250339	2003 <i>SE</i> ₁₅₁		9 15.6 343°89	6°5/10.9	17		307569	2003 <i>FR</i> ₆₈		9 15.6 246°63	1°6/12.3	18	
8 9	23 52.39	-11 11.9	0.985	1.889	19.4	19.5	8 9	23 48.92	- 9 32.2	4.502	5.340	6.7	20.3
8 19	23 51.34	-12 21.9	0.924	1.876	15.0	19.2	8 19	23 45.87	-10 8.1	4.418	5.336	5.0	20.2
8 29	23 47.03	-13 43.3	0.882	1.865	10.3	18.9	8 29	23 42.01	-10 46.6	4.361	5.332	3.3	20.1
9 8	23 40.18	-15 4.2	0.859	1.855	6.7	18.7	9 8	23 37.59	-11 25.2	4.332	5.328	1.8	19.9
9 18	23 32.04	-16 11.0	0.857	1.847	7.8	18.8	9 18	23 32.91	-12 1.7	4.332	5.324	2.0	19.9
9 28	23 24.31	-16 51.5	0.876	1.840	12.3	19.0	9 28	23 28.31	-12 33.5	4.363	5.320	3.5	20.1
10 8	23 18.57	-16 59.4	0.914	1.835	17.2	19.2	10 8	23 24.13	-12 58.8	4.422	5.316	5.3	20.2
10 18	23 15.84	-16 34.4	0.969	1.831	21.6	19.5	10 18	23 20.65	-13 16.3	4.507	5.311	6.9	20.3
264109	2009 <i>SK</i> ₃₃₉		9 15.6 289°20	0°8/17.1	18		94046	2000 <i>YK</i>		9 15.6 252°37	8°9/ 8.5	18	
8 9	23 49.86	+ 2 27.2	4.361	5.158	7.6	20.0	8 9	0 9.91	-26 44.6	1.866	2.709	14.4	19.2
8 19	23 46.61	+ 2 17.9	4.262	5.150	5.9	19.9	8 19	0 3.35	-27 31.3	1.799	2.700	12.0	19.1
8 29	23 42.51	+ 2 2.0	4.188	5.142	4.1	19.7	8 29	23 54.15	-28 9.4	1.754	2.692	9.9	18.9
9 8	23 37.81	+ 1 41.1	4.141	5.134	2.1	19.6	9 8	23 43.07	-28 30.1	1.733	2.683	8.9	18.8
9 18	23 32.82	+ 1 16.6	4.123	5.126	0.8	19.5	9 18	23 31.20	-28 26.7	1.738	2.674	9.7	18.9
9 28	23 27.89	+ 0 50.8	4.136	5.118	2.5	19.6	9 28	23 19.84	-27 55.6	1.768	2.665	11.8	19.0
10 8	23 23.39	+ 0 25.8	4.179	5.111	4.5	19.7	10 8	23 10.16	-26 57.6	1.823	2.655	14.4	19.1
10 18	23 19.61	+ 0 3.7	4.248	5.103	6.3	19.9	10 18	23 2.95	-25 36.7	1.898	2.646	16.9	19.3
448420	2009 <i>SZ</i> ₂₂₀		9 15.6 327°86	8°0/26.7	18		200508	2001 <i>BR</i> ₄		9 15.6 295°38	8°5/ 6.7	18	
8 9	23 53.02	+25 43.0	2.263	2.947	16.7	20.4	8 9	23 58.02	-20 29.4	1.657	2.529	14.5	19.4
8 19	23 50.11	+25 56.6	2.167	2.942	14.8	20.2	8 19	23 54.68	-22 8.7	1.579	2.506	11.7	19.2
8 29	23 45.35	+25 44.9	2.087	2.937	12.6	20.1	8 29	23 48.77	-23 49.2	1.523	2.482	9.4	19.0
9 8	23 39.21	+25 5.6	2.027	2.932	10.4	19.9	9 8	23 40.86	-25 20.3	1.491	2.458	8.6	18.9
9 18	23 32.36	+23 58.9	1.991	2.927	8.6	19.8	9 18	23 31.86	-26 31.2	1.485	2.434	10.0	18.9
9 28	23 25.65	+22 28.1	1.980	2.923	8.1	19.8	9 28	23 22.99	-27 13.6	1.502	2.410	12.8	19.0
10 8	23 19.92	+20 40.3	1.995	2.919	9.1	19.8	10 8	23 15.48	-27 23.7	1.540	2.386	16.0	19.2
10 18	23 15.81	+18 44.0	2.036	2.915	11.1	20.0	10 18	23 10.27	-27 2.4	1.597	2.362	18.9	19.3
42794	1999 <i>BL</i> ₁₈		9 15.6 132°73	0°8/14.9	18		468513	2005 <i>RW</i> ₁₈		9 15.6 62°45	0°2/15.5	16	
8 9	0 4.40	- 3 49.2	1.832	2.664	15.1	18.2	8 9	0 0.02	+ 0 1.3	1.380	2.228	18.2	21.3
8 19	23 58.85	- 3 59.9	1.762	2.674	11.6	18.0	8 19	23 55.97	- 0 30.5	1.328	2.247	14.1	21.1
8 29	23 51.05	- 4 19.9	1.714	2.683	7.6	17.8	8 29	23 49.36	- 1 19.3	1.295	2.267	9.3	20.9
9 8	23 41.68	- 4 45.5	1.692	2.692	3.3	17.5	9 8	23 40.97	- 2 19.5	1.286	2.286	4.0	20.6
9 18	23 31.62	- 5 11.9	1.697	2.700	1.6	17.4	9 18	23 31.89	- 3 23.5	1.301	2.305	1.3	20.5
9 28	23 21.96	- 5 33.9	1.731	2.708	5.9	17.7	9 28	23 23.41	- 4 22.6	1.343	2.325	6.5	20.9
10 8	23 13.68	- 5 47.4	1.792	2.716	9.9	18.0	10 8	23 16.62	- 5 9.6	1.410	2.345	11.1	21.2
10 18	23 7.49	- 5 49.6	1.877	2.723	13.3	18.2	10 18	23 12.24	- 5 40.2	1.498	2.364	15.0	21.5
520343	2014 <i>GL</i> ₆₂		9 15.6 141°82	2°5/18.3	18		219584	2001 <i>SS</i> ₃₁₇		9 15.6 283°66	2°0/13.9	18	
8 9	23 56.12	+ 7 9.9	2.021	2.823	14.9	21.5	8 9	23 59.14	- 5 8.2	1.624	2.478	15.7	21.0
8 19	23 52.44	+ 6 54.9	1.939	2.825	12.0	21.3	8 19	23 55.44	- 5 43.6	1.534	2.459	12.2	20.7
8 29	23 46.84	+ 6 22.3	1.876	2.826	8.6	21.1	8 29	23 49.23	- 6 31.2	1.465	2.440	8.0	20.4
9 8	23 39.85	+ 5 34.0	1.839	2.827	4.9	20.9	9 8	23 41.06	- 7 25.9	1.420	2.421	3.6	20.1
9 18	23 32.18	+ 4 33.8	1.828	2.828	2.5	20.7	9 18	23 31.80	- 8 20.6	1.401	2.402	2.9	20.0
9 28	23 24.72	+ 3 27.8	1.845	2.829	4.7	20.9	9 28	23 22.65	- 9 7.4	1.409	2.383	7.4	20.3
10 8	23 18.32	+ 2 22.5	1.889	2.830	8.4	21.1	10 8	23 14.78	- 9 40.0	1.441	2.364	12.0	20.5
10 18	23 13.63	+ 1 24.1	1.958	2.831	11.7	21.3	10 18	23 9.13	- 9 54.4	1.496	2.344	16.0	20.7
364003	2005 <i>UQ</i> ₄₄₆		9 15.6 319°60	4°6/20.6	18		264351						

EPHEMERIDES

9 15.6

9 15.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
330050	2005 <i>UN</i> ₃₄₉		9 15.6 322°39	1.8°/13.8	17		236472	2006 <i>FS</i> ₁₄		9 15.6 179°86	0.2°/15.4	18	R
8 9	23 53.01	- 3 55.5	1.723	2.580	14.7	20.8	8 9	23 57.02	+ 0 7.4	1.827	2.662	15.0	21.1
8 19	23 50.51	- 4 43.6	1.632	2.560	11.4	20.5	8 19	23 53.32	- 0 31.7	1.749	2.662	11.6	20.9
8 29	23 45.86	- 5 45.5	1.563	2.540	7.4	20.2	8 29	23 47.52	- 1 25.7	1.693	2.662	7.7	20.6
9 8	23 39.53	- 6 55.9	1.519	2.520	3.3	19.9	9 8	23 40.20	- 2 30.3	1.662	2.662	3.4	20.4
9 18	23 32.30	- 8 7.8	1.500	2.501	2.7	19.9	9 18	23 32.15	- 3 39.4	1.658	2.662	1.2	20.2
9 28	23 25.16	- 9 12.8	1.508	2.482	6.9	20.1	9 28	23 24.35	- 4 45.7	1.682	2.662	5.6	20.5
10 8	23 19.15	-10 4.1	1.541	2.465	11.2	20.3	10 8	23 17.73	- 5 42.4	1.732	2.662	9.8	20.8
10 18	23 15.05	-10 36.8	1.596	2.448	15.0	20.5	10 18	23 13.00	- 6 24.9	1.806	2.661	13.4	21.0
275007	2009 <i>TW</i> ₄₀		9 15.6 298°57	2.3°/20.6	17		388967	2008 <i>TS</i> ₁₀₀		9 15.6 255°54	0.1°/15.6	18	
8 9	23 48.15	+12 16.1	4.328	5.074	8.4	20.5	8 9	23 58.93	- 0 36.3	1.882	2.714	14.7	22.3
8 19	23 45.37	+11 55.0	4.222	5.066	6.9	20.4	8 19	23 54.86	- 0 59.4	1.791	2.702	11.5	22.0
8 29	23 41.74	+11 23.5	4.139	5.057	5.3	20.2	8 29	23 48.62	- 1 35.8	1.722	2.690	7.7	21.8
9 8	23 37.50	+10 42.3	4.082	5.049	3.6	20.1	9 8	23 40.73	- 2 22.2	1.678	2.677	3.4	21.5
9 18	23 32.97	+ 9 53.2	4.054	5.041	2.4	20.0	9 18	23 31.97	- 3 13.6	1.661	2.665	1.1	21.3
9 28	23 28.51	+ 8 58.5	4.055	5.032	2.8	20.0	9 28	23 23.34	- 4 3.5	1.671	2.652	5.6	21.6
10 8	23 24.46	+ 8 1.2	4.087	5.024	4.4	20.1	10 8	23 15.83	- 4 45.8	1.709	2.639	9.9	21.8
10 18	23 21.15	+ 7 4.4	4.146	5.016	6.1	20.3	10 18	23 10.24	- 5 16.1	1.770	2.625	13.6	22.0
120620	1995 <i>YT</i> ₂₀		9 15.6 327°43	1.0°/14.7	18		410674	2008 <i>UY</i> ₅₅		9 15.6 262°35	2.8°/12.6	17	
8 9	23 52.94	- 2 11.0	1.676	2.531	15.2	19.7	8 9	23 59.48	-11 40.7	2.595	3.435	10.9	21.5
8 19	23 50.52	- 2 46.2	1.586	2.510	11.8	19.4	8 19	23 54.56	-11 59.9	2.512	3.429	8.4	21.4
8 29	23 45.89	- 3 36.2	1.516	2.491	7.8	19.1	8 29	23 48.02	-12 21.3	2.453	3.423	5.6	21.2
9 8	23 39.56	- 4 36.4	1.470	2.472	3.4	18.8	9 8	23 40.34	-12 41.2	2.422	3.417	3.2	21.0
9 18	23 32.30	- 5 40.4	1.450	2.453	1.9	18.7	9 18	23 32.12	-12 55.7	2.420	3.411	3.3	21.0
9 28	23 25.14	- 6 40.5	1.457	2.436	6.5	18.9	9 28	23 24.10	-13 1.4	2.446	3.404	5.8	21.2
10 8	23 19.12	- 7 29.3	1.488	2.419	10.9	19.2	10 8	23 16.98	-12 56.2	2.500	3.398	8.6	21.3
10 18	23 15.07	- 8 1.8	1.541	2.403	14.9	19.4	10 18	23 11.31	-12 39.1	2.579	3.392	11.2	21.5
376203	2011 <i>DE</i> ₂		9 15.6 242°02	0.2°/15.8	18		186166	2001 <i>UK</i> ₁₃₇		9 15.6 288°31	1.9°/13.7	17	
8 9	0 0.82	+ 0 6.8	1.795	2.624	15.5	22.0	8 9	23 57.23	- 5 39.7	2.014	2.860	13.4	21.1
8 19	23 56.46	- 0 13.0	1.703	2.612	12.2	21.8	8 19	23 53.50	- 6 17.2	1.916	2.836	10.3	20.8
8 29	23 49.75	- 0 47.3	1.633	2.599	8.2	21.5	8 29	23 47.71	- 7 4.7	1.840	2.813	6.8	20.6
9 8	23 41.25	- 1 32.7	1.587	2.586	3.7	21.2	9 8	23 40.34	- 7 57.6	1.789	2.789	3.1	20.3
9 18	23 31.78	- 2 24.4	1.568	2.572	1.1	21.0	9 18	23 32.09	- 8 50.1	1.766	2.766	2.7	20.2
9 28	23 22.43	- 3 15.6	1.577	2.558	5.8	21.3	9 28	23 23.89	- 9 36.0	1.771	2.742	6.4	20.4
10 8	23 14.28	- 3 59.7	1.612	2.543	10.3	21.5	10 8	23 16.68	-10 9.8	1.802	2.718	10.3	20.6
10 18	23 8.19	- 4 31.8	1.671	2.528	14.2	21.7	10 18	23 11.23	-10 28.1	1.856	2.694	13.8	20.8
56355	2000 <i>AX</i> ₁₃₀		9 15.6 272°58	0.1°/15.9	18		485872	2012 <i>FF</i> ₂₇		9 15.6 231°17	0.7°/16.6	18	
8 9	23 48.85	- 0 16.5	4.485	5.294	7.2	19.7	8 9	23 53.93	+ 3 29.2	2.743	3.547	11.4	22.2
8 19	23 45.82	- 0 37.7	4.393	5.291	5.5	19.6	8 19	23 50.30	+ 2 45.2	2.644	3.537	8.9	22.1
8 29	23 41.99	- 1 4.5	4.326	5.289	3.7	19.4	8 29	23 45.24	+ 1 48.2	2.568	3.526	6.1	21.9
9 8	23 37.61	- 1 35.2	4.288	5.286	1.7	19.3	9 8	23 39.13	+ 0 41.0	2.520	3.516	2.9	21.6
9 18	23 32.96	- 2 8.0	4.279	5.283	0.5	19.2	9 18	23 32.49	- 0 32.4	2.501	3.505	0.8	21.4
9 28	23 28.38	- 2 40.4	4.300	5.280	2.5	19.4	9 28	23 25.94	- 1 47.0	2.511	3.493	3.9	21.7
10 8	23 24.22	- 3 10.4	4.351	5.277	4.5	19.5	10 8	23 20.10	- 2 57.4	2.551	3.481	7.0	21.9
10 18	23 20.75	- 3 36.1	4.429	5.275	6.3	19.6	10 18	23 15.49	- 3 59.3	2.618	3.469	9.9	22.0
444990	2008 <i>FU</i> ₉₈		9 15.6 7°69	6.4°/ 9.5	18		220231	2002 <i>WC</i> ₂		9 15.6 257°15	2.4°/13.5	18	
8 9	23 57.36	-17 51.5	1.786	2.656	13.8	20.5	8 9	23 59.66	- 5 45.5	1.710	2.561	15.1	20.9
8 19	23 53.62	-18 53.7	1.728	2.656	10.8	20.3	8 19	23 55.68	- 6 32.4	1.624	2.547	11.7	20.7
8 29	23 47.70	-19 55.2	1.692	2.658	8.0	20.1	8 29	23 49.29	- 7 31.2	1.558	2.533	7.7	20.4
9 8	23 40.25	-20 48.3	1.680	2.660	6.4	20.0	9 8	23 41.07	- 8 35.9	1.518	2.518	3.6	20.2
9 18	23 32.14	-21 25.7	1.695	2.662	7.3	20.1	9 18	23 31.87	- 9 39.2	1.504	2.503	3.3	20.1
9 28	23 24.43	-21 42.2	1.734	2.665	9.9	20.3	9 28	23 22.81	-10 33.2	1.518	2.488	7.4	20.3
10 8	23 18.04	-21 35.8	1.797	2.669	12.8	20.5	10 8	23 15.01	-11 11.7	1.556	2.472	11.7	20.5
10 18	23 13.65	-21 7.3	1.881	2.673	15.5	20.7	10 18	23 9.34	-11 31.2	1.617	2.456	15.5	20.7
127007	2002 <i>GC</i> ₇		9 15.6 188°19	6.7°/ 8.1	18		340528	2006 <i>JV</i> ₃₇		9 15.6 164°60	6.5°/23.9	16	
8 9	23 58.76	-18 6.6	1.934	2.797	13.1	20.1	8 9	23 57.55	+21 0.2	2.296	3.005	15.9	21.8
8 19	23 54.62	-19 40.9	1.872	2.796	10.4	20.0	8 19	23 53.45	+21 4.5	2.206	3.010	13.7	21.6
8 29	23 48.34	-21 15.8	1.835	2.796	7.8	19.8	8 29	23 47.48	+20 45.6	2.135	3.014	11.2	21.4
9 8	23 40.55	-22 42.4	1.823	2.795	6.7	19.7	9 8	23 40.16	+20 2.6	2.085	3.017	8.7	21.3
9 18	23 32.04	-23 52.5	1.837	2.794	7.8	19.8	9 18	23 32.18	+18 56.7	2.061	3.020	6.8	21.2
9 28	23 23.84	-24 39.7	1.878	2.792	10.3	20.0	9 28	23 24.39	+17 32.1	2.064	3.023	6.6	21.2
10 8	23 16.88	-25 1.3	1.942	2.790	13.0	20.1	10 8	23 17.61	+15 55.9	2.094	3.025	8.3	21.3
10 18	23 11.86	-24 57.7	2.027	2.788	15.5	20.3	10 18	23 12.49	+14 16.1	2.152	3.027	10.7	21.4
320083	2007 <i>ER</i> ₇₄		9 15.6 240°66	0.5°/15.1	18		151920	2004 <i>EN</i> ₇₈		9 15.6 25°25	2.7°/13.8	18	
8 9	23 58.36	- 2 59.9	2.407	3.233	12.1	21.0	8 9	0 0.19	- 6 49.3	1.245	2.116	18.4	19.1
8 19	23 53.85	- 3 12.9	2.318	3.227	9.4	20.8	8 19	23 56.53	- 7 13.5	1.188	2.122	14.1	18.8
8 29	23 47.65	- 3 34.1	2.252	3.220	6.2	20.6	8 29	23 49.98	- 7 48.2	1.151	2.129	9.2	18.6
9 8	23 40.20	- 4 0.7	2.213	3.213	2.7	20.3	9 8	23 41.35	- 8 26.7	1.135	2.136	4.2	18.3
9 18	23 32.15	- 4 28.9	2.203	3.206	1.2	20.2	9 18	23 31.84	- 9 1.1	1.144	2.144	3.6	18.3
9 28	23 24.25	- 4 54.7	2.221	3.199	4.7	20.5	9 28	23 22.89	- 9 23.9	1.177	2.153	8.2	18.6
10 8	23 17.25	- 5 14.3	2.268	3.192	8.1	20.7	10 8	23 15.79	- 9 30.1	1.234	2.162	13.0	18.9
10 18	23 11.75	- 5 25.0	2.340	3.185	11.1	20.9	10 18	23 11.36	- 9 18.0	1.311	2.172	17.1	19.2
21920	1999 <i>VZ</i> ₄₇		9 15.6 138°25	4.0°/20.7	18								

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
219902	2002 EG ₁₃₄		9 15.6 305°48	0°9/17.4	16		113560	2002 TA ₃₂		9 15.6 152°71	2°0/17.6	18	
8 9	23 49.11	+ 3 39.1	4.212	5.006	7.9	20.1	8 9	23 58.37	+ 6 12.5	1.695	2.510	16.8	19.8
8 19	23 46.10	+ 3 22.6	4.115	5.000	6.2	19.9	8 19	23 54.55	+ 5 44.9	1.618	2.513	13.4	19.6
8 29	23 42.23	+ 2 58.7	4.042	4.994	4.3	19.8	8 29	23 48.45	+ 4 56.6	1.561	2.517	9.4	19.4
9 8	23 37.74	+ 2 28.8	3.997	4.989	2.3	19.7	9 8	23 40.68	+ 3 50.5	1.528	2.520	5.1	19.2
9 18	23 32.96	+ 1 54.9	3.981	4.983	0.9	19.5	9 18	23 32.11	+ 2 32.1	1.520	2.523	2.0	19.0
9 28	23 28.25	+ 1 19.3	3.995	4.978	2.5	19.7	9 28	23 23.83	+ 1 9.5	1.541	2.526	5.4	19.2
10 8	23 23.98	+ 0 44.5	4.039	4.972	4.5	19.8	10 8	23 16.84	- 0 8.7	1.588	2.528	9.7	19.5
10 18	23 20.45	+ 0 12.8	4.110	4.967	6.4	19.9	10 18	23 11.93	- 1 15.4	1.658	2.530	13.5	19.7
10427	Klinkenberg		9 15.6 20°65	2°8/17.5	18		476643	2008 SS ₂₆₀		9 15.6 354°33	1°9/16.3	18	
8 9	23 54.32	+ 4 5.5	0.886	1.763	23.5	17.1	8 9	0 4.96	- 4 48.4	1.014	1.888	21.4	19.5
8 19	23 52.78	+ 4 18.0	0.841	1.772	18.7	16.8	8 19	0 1.20	- 3 13.5	0.945	1.877	17.0	19.1
8 29	23 47.87	+ 4 3.1	0.811	1.783	13.0	16.6	8 29	23 53.71	- 1 42.1	0.894	1.868	11.7	18.8
9 8	23 40.51	+ 3 24.3	0.799	1.796	6.9	16.3	9 8	23 43.27	- 0 14.7	0.862	1.862	5.7	18.5
9 18	23 32.12	+ 2 28.9	0.807	1.811	2.8	16.1	9 18	23 31.29	+ 1 7.2	0.854	1.858	2.2	18.3
9 28	23 24.43	+ 1 28.2	0.837	1.827	7.4	16.5	9 28	23 19.72	+ 2 23.3	0.869	1.856	7.9	18.6
10 8	23 18.95	+ 0 34.1	0.888	1.844	13.0	16.8	10 8	23 10.40	+ 3 34.3	0.906	1.856	13.7	18.9
10 18	23 16.53	- 0 5.0	0.957	1.863	17.9	17.2	10 18	23 4.56	+ 4 42.1	0.963	1.859	18.7	19.2
357332	2003 NO ₆		9 15.6 77°29	4°8/ 9.0	18		59647	1999 JY ₈₉		9 15.7 30°16	3°4/12.3	18	
8 9	23 55.20	-12 11.5	2.149	3.008	12.2	20.6	8 9	23 52.46	- 3 48.1	1.280	2.155	17.7	18.1
8 19	23 51.51	-14 12.9	2.101	3.028	9.2	20.4	8 19	23 50.46	- 5 32.9	1.228	2.166	13.4	17.9
8 29	23 46.10	-16 18.3	2.079	3.049	6.4	20.3	8 29	23 45.93	- 7 35.2	1.196	2.177	8.6	17.7
9 8	23 39.50	-18 19.1	2.085	3.070	4.9	20.2	9 8	23 39.59	- 9 44.0	1.189	2.189	4.2	17.5
9 18	23 32.43	-20 6.9	2.120	3.090	5.9	20.3	9 18	23 32.48	-11 46.3	1.206	2.202	4.6	17.5
9 28	23 25.68	-21 34.9	2.184	3.111	8.4	20.5	9 28	23 25.85	-13 29.6	1.249	2.216	9.0	17.8
10 8	23 19.98	-22 39.4	2.273	3.131	11.0	20.7	10 8	23 20.79	-14 45.6	1.314	2.230	13.4	18.1
10 18	23 15.89	-23 19.6	2.384	3.151	13.3	21.0	10 18	23 18.04	-15 31.3	1.400	2.245	17.1	18.4
294154	2007 TS ₃₃₄		9 15.6 7°56	3°9/12.7	18		374819	2006 UT ₁₂₄		9 15.7 228°37	0°9/16.5	17	
8 9	23 59.60	-10 38.1	1.513	2.380	15.9	20.0	8 9	0 0.88	+ 2 1.3	1.749	2.573	16.0	21.5
8 19	23 55.67	-11 7.5	1.449	2.381	12.2	19.8	8 19	23 56.56	+ 1 44.4	1.661	2.565	12.7	21.3
8 29	23 49.24	-11 42.3	1.406	2.382	8.1	19.6	8 29	23 49.87	+ 1 11.3	1.594	2.556	8.7	21.0
9 8	23 41.00	-12 16.0	1.386	2.384	4.5	19.4	9 8	23 41.37	+ 0 24.9	1.550	2.547	4.2	20.8
9 18	23 31.96	-12 41.6	1.392	2.386	4.7	19.4	9 18	23 31.92	- 0 29.9	1.534	2.538	1.2	20.5
9 28	23 23.35	-12 53.2	1.424	2.390	8.3	19.6	9 28	23 22.63	- 1 26.3	1.545	2.528	5.7	20.8
10 8	23 16.29	-12 47.4	1.480	2.393	12.3	19.9	10 8	23 14.59	- 2 17.3	1.582	2.517	10.1	21.1
10 18	23 11.54	-12 23.6	1.557	2.398	15.9	20.1	10 18	23 8.64	- 2 57.2	1.643	2.506	14.1	21.3
439631	2014 FX ₄₉		9 15.6 85°38	6°9/23.6	18		239811	1997 MR ₂		9 15.7 34°83	9°9/ 6.0	18	
8 9	23 57.26	+19 28.9	2.028	2.759	17.1	20.2	8 9	23 56.57	-22 32.6	1.417	2.300	15.9	18.8
8 19	23 53.41	+19 50.0	1.950	2.770	14.7	20.1	8 19	23 53.50	-24 31.5	1.385	2.314	12.9	18.7
8 29	23 47.54	+19 47.3	1.891	2.780	12.0	19.9	8 29	23 47.82	-26 23.8	1.374	2.329	10.6	18.6
9 8	23 40.22	+19 19.7	1.852	2.791	9.2	19.8	9 8	23 40.38	-27 57.1	1.386	2.344	9.9	18.6
9 18	23 32.21	+18 28.4	1.838	2.802	7.2	19.7	9 18	23 32.28	-29 1.6	1.421	2.360	11.2	18.7
9 28	23 24.46	+17 17.6	1.851	2.812	7.1	19.7	9 28	23 24.79	-29 31.7	1.479	2.377	13.7	18.9
10 8	23 17.86	+15 55.0	1.890	2.823	8.9	19.8	10 8	23 19.00	-29 27.4	1.557	2.394	16.3	19.1
10 18	23 13.08	+14 28.5	1.954	2.833	11.4	20.0	10 18	23 15.60	-28 52.5	1.653	2.412	18.6	19.4
509623	2008 FQ ₃₂		9 15.6 72°02	0°6/16.1	17		111388	2001 XF ₁₅₉		9 15.7 306°78	1°6/14.1	18	
8 9	0 2.45	+ 1 7.0	1.431	2.269	18.2	21.6	8 9	23 55.86	- 4 24.9	1.904	2.752	13.9	19.7
8 19	23 57.74	+ 0 48.1	1.379	2.292	14.2	21.4	8 19	23 52.47	- 5 1.8	1.818	2.739	10.7	19.5
8 29	23 50.48	+ 0 12.2	1.348	2.315	9.4	21.2	8 29	23 47.04	- 5 49.7	1.753	2.727	7.0	19.2
9 8	23 41.49	- 0 35.9	1.339	2.338	4.3	21.0	9 8	23 40.08	- 6 43.8	1.714	2.714	3.1	18.9
9 18	23 31.86	- 1 29.8	1.356	2.360	1.2	20.8	9 18	23 32.33	- 7 38.4	1.701	2.702	2.3	18.9
9 28	23 22.85	- 2 21.6	1.400	2.383	6.1	21.2	9 28	23 24.73	- 8 26.7	1.716	2.690	6.3	19.1
10 8	23 15.55	- 3 4.5	1.469	2.405	10.6	21.5	10 8	23 18.20	- 9 3.3	1.757	2.678	10.2	19.3
10 18	23 10.67	- 3 33.8	1.560	2.427	14.5	21.8	10 18	23 13.48	- 9 24.7	1.820	2.667	13.7	19.5
483843	2005 YQ ₆		9 15.6 338°90	4°4/20.1	17		487289	2014 QZ ₃₄		9 15.7 351°87	2°4/12.8	18	
8 9	23 55.99	+10 54.4	2.015	2.799	15.6	21.6	8 9	23 53.19	- 5 39.6	2.035	2.888	13.0	21.1
8 19	23 52.47	+11 12.9	1.927	2.794	12.9	21.4	8 19	23 50.20	- 6 46.2	1.960	2.886	9.9	20.9
8 29	23 46.98	+11 13.2	1.858	2.790	9.8	21.2	8 29	23 45.40	- 8 3.1	1.909	2.884	6.4	20.7
9 8	23 40.01	+10 55.3	1.812	2.786	6.6	21.0	9 8	23 39.30	- 9 24.3	1.883	2.883	3.1	20.5
9 18	23 32.28	+10 20.9	1.793	2.782	4.5	20.9	9 18	23 32.58	-10 42.9	1.885	2.881	3.2	20.5
9 28	23 24.69	+ 9 34.3	1.800	2.779	5.5	20.9	9 28	23 26.07	-11 52.0	1.915	2.880	6.5	20.7
10 8	23 18.14	+ 8 41.6	1.834	2.776	8.5	21.1	10 8	23 20.57	-12 46.1	1.970	2.880	10.0	20.9
10 18	23 13.34	+ 7 49.3	1.892	2.773	11.7	21.3	10 18	23 16.68	-13 22.0	2.050	2.880	13.0	21.1
43137	1999 XU ₈₅		9 15.6 8°72	5°5/21.4	18		94267	2001 DR ₃		9 15.7 187°52	1°1/14.5	18	
8 9	23 56.16	+14 5.5	2.076	2.840	15.8	18.0	8 9	23 59.79	- 5 26.7	2.372	3.203	12.1	19.9
8 19	23 52.54	+14 33.7	1.991	2.841	13.3	17.8	8 19	23 54.95	- 5 38.4	2.291	3.203	9.3	19.7
8 29	23 46.98	+14 42.6	1.926	2.842	10.4	17.7	8 29	23 48.37	- 5 56.6	2.233	3.203	6.1	19.5
9 8	23 40.00	+14 31.6	1.884	2.844	7.6	17.5	9 8	23 40.57	- 6 17.9	2.202	3.202	2.6	19.3
9 18	23 32.30	+14 1.8	1.866	2.845	5.6	17.4	9 18	23 32.20	- 6 38.8	2.200	3.202	1.7	19.3
9 28	23 24.77	+13 16.8	1.876	2.848	6.1	17.4	9 28	23 24.05	- 6 55.2	2.227	3.201	5.0	19.5
10 8	23 18.28	+12 22.8	1.912	2.850	8.4	17.6	10 8	23 16.86	- 7 4.1	2.282	3.200	8.3	19.7
10 18	23 13.50	+11 26.2	1.973	2.853	11.3	17.7	10 18	23 11.23	- 7 3.3	2.361	3.200	11.2	19.9
484679	2008 UT ₁₆₂		9 15.6 4°76	3°5/20.0	18		116362	2003 YZ ₉₆		9 15.7 146°48	4°4/20.6	18	
8 9	23 53												

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
207597	2006 <i>QU</i> ₈₂		9 15.7 17°03	1.6°/14.2	18		295382	2008 <i>HU</i> ₆₉		9 15.7 13°64	0.4°/15.3	18	
8 9	23 54.24	- 3 9.1	1.425	2.290	16.8	19.6	8 9	23 53.99	- 1 8.6	1.741	2.588	15.1	20.0
8 19	23 51.64	- 3 54.1	1.365	2.295	12.9	19.3	8 19	23 51.06	- 1 39.1	1.672	2.592	11.6	19.8
8 29	23 46.64	- 4 53.5	1.324	2.302	8.4	19.1	8 29	23 46.08	- 2 23.1	1.625	2.597	7.7	19.6
9 8	23 39.91	- 6 1.1	1.307	2.309	3.6	18.8	9 8	23 39.64	- 3 16.1	1.602	2.602	3.3	19.3
9 18	23 32.43	- 7 8.5	1.315	2.317	2.5	18.8	9 18	23 32.54	- 4 12.2	1.605	2.609	1.3	19.2
9 28	23 25.35	- 8 7.2	1.349	2.326	7.1	19.1	9 28	23 25.74	- 5 4.5	1.635	2.616	5.7	19.5
10 8	23 19.73	- 8 50.3	1.406	2.336	11.5	19.4	10 8	23 20.14	- 5 47.1	1.690	2.623	9.7	19.8
10 18	23 16.31	- 9 14.1	1.485	2.347	15.4	19.7	10 18	23 16.39	- 6 15.9	1.769	2.632	13.3	20.0
396373	2014 <i>DX</i> ₁₀₆		9 15.7 178°90	0°2°/15.9	18		389335	2009 <i>SN</i> ₂₉₈		9 15.7 4°37	1°8°/19.4	15	
8 9	23 59.60	+ 0 10.8	2.322	3.137	12.8	22.3	8 9	23 49.61	+ 8 33.3	4.335	5.101	8.1	21.3
8 19	23 54.86	- 0 12.0	2.238	3.139	10.0	22.1	8 19	23 46.48	+ 8 26.6	4.240	5.101	6.6	21.2
8 29	23 48.36	- 0 46.0	2.177	3.140	6.7	21.9	8 29	23 42.50	+ 8 11.4	4.169	5.102	4.8	21.0
9 8	23 40.59	- 1 28.1	2.142	3.140	3.0	21.6	9 8	23 37.93	+ 7 48.5	4.124	5.102	3.0	20.9
9 18	23 32.22	- 2 14.3	2.136	3.140	0.8	21.5	9 18	23 33.07	+ 7 19.4	4.108	5.102	1.9	20.8
9 28	23 24.04	- 2 59.6	2.159	3.140	4.6	21.8	9 28	23 28.29	+ 6 46.3	4.122	5.102	2.6	20.9
10 8	23 16.83	- 3 39.4	2.211	3.138	8.1	22.0	10 8	23 23.95	+ 6 11.5	4.165	5.102	4.3	21.0
10 18	23 11.20	- 4 10.0	2.288	3.137	11.2	22.2	10 18	23 20.33	+ 5 37.6	4.236	5.102	6.1	21.1
388620	2007 <i>TQ</i> ₂₂		9 15.7 12°83	5°1°/11.6	18		514886	2008 <i>MJ</i>		9 15.7 156°89	3°0°/20.1	18	
8 9	0 1.71	-14 18.2	1.662	2.525	14.9	20.0	8 9	23 55.91	+11 33.3	2.936	3.691	11.8	22.8
8 19	23 57.13	-14 56.2	1.598	2.526	11.6	19.8	8 19	23 51.69	+11 18.9	2.848	3.699	9.7	22.6
8 29	23 50.13	-15 36.0	1.556	2.527	8.0	19.6	8 29	23 46.11	+10 49.9	2.781	3.706	7.3	22.5
9 8	23 41.42	-16 10.7	1.538	2.528	5.3	19.5	9 8	23 39.56	+10 7.5	2.740	3.712	4.8	22.3
9 18	23 31.97	-16 33.4	1.546	2.530	5.9	19.5	9 18	23 32.58	+ 9 13.9	2.728	3.718	3.1	22.2
9 28	23 22.95	-16 38.8	1.580	2.532	8.9	19.7	9 28	23 25.75	+ 8 13.1	2.745	3.724	3.9	22.3
10 8	23 15.42	-16 24.7	1.639	2.535	12.5	19.9	10 8	23 19.66	+ 7 9.6	2.792	3.729	6.2	22.5
10 18	23 10.12	-15 51.5	1.719	2.537	15.6	20.2	10 18	23 14.78	+ 6 8.1	2.866	3.733	8.6	22.6
392196	2009 <i>SU</i> ₁₄₃		9 15.7 301°76	1°7°/12.4	18		299761	2006 <i>SM</i> ₆		9 15.7 346°18	1°8°/17.4	18	
8 9	23 51.18	-10 47.1	4.258	5.096	7.0	20.9	8 9	23 55.47	+ 4 30.6	1.748	2.573	16.0	20.2
8 19	23 47.66	-11 9.4	4.174	5.091	5.3	20.8	8 19	23 52.31	+ 4 15.7	1.667	2.569	12.7	20.0
8 29	23 43.26	-11 33.5	4.116	5.086	3.5	20.6	8 29	23 47.00	+ 3 42.9	1.607	2.567	8.9	19.8
9 8	23 38.24	-11 57.1	4.087	5.082	2.0	20.5	9 8	23 40.10	+ 2 54.7	1.570	2.564	4.7	19.5
9 18	23 32.95	-12 17.9	4.086	5.077	2.1	20.5	9 18	23 32.40	+ 1 55.8	1.559	2.562	1.8	19.3
9 28	23 27.75	-12 33.8	4.116	5.073	3.7	20.6	9 28	23 24.92	+ 0 53.0	1.575	2.560	5.2	19.6
10 8	23 23.02	-12 43.2	4.174	5.068	5.6	20.8	10 8	23 18.63	- 0 6.3	1.617	2.558	9.4	19.8
10 18	23 19.06	-12 44.8	4.258	5.064	7.2	20.9	10 18	23 14.26	- 0 56.1	1.682	2.557	13.2	20.0
442854	2013 <i>AR</i> ₁₂₆		9 15.7 324°19	3°5°/18.8	18		257566	1998 <i>WP</i> ₃₇		9 15.7 254°36	2°1°/11.2	18	
8 9	23 57.68	+ 7 44.6	1.793	2.598	16.4	21.2	8 9	23 50.18	-13 15.3	4.519	5.361	6.6	20.6
8 19	23 54.02	+ 7 56.0	1.708	2.593	13.4	21.0	8 19	23 46.87	-13 46.5	4.438	5.356	5.0	20.5
8 29	23 48.14	+ 7 49.2	1.642	2.589	9.8	20.8	8 29	23 42.74	-14 18.8	4.383	5.351	3.4	20.4
9 8	23 40.60	+ 7 24.7	1.600	2.585	6.0	20.6	9 8	23 38.03	-14 49.6	4.356	5.346	2.2	20.3
9 18	23 32.21	+ 6 45.4	1.584	2.581	3.5	20.4	9 18	23 33.06	-15 16.6	4.359	5.341	2.5	20.3
9 28	23 23.99	+ 5 56.4	1.594	2.577	5.5	20.5	9 28	23 28.17	-15 37.8	4.391	5.336	4.0	20.4
10 8	23 16.95	+ 5 4.7	1.630	2.574	9.2	20.7	10 8	23 23.72	-15 51.5	4.452	5.331	5.6	20.5
10 18	23 11.89	+ 4 16.9	1.691	2.570	12.9	20.9	10 18	23 20.00	-15 56.7	4.538	5.325	7.1	20.6
128884	2004 <i>SV</i> ₅₇		9 15.7 270°82	1°4°/14.2	18		521644	2015 <i>QP</i> ₁₇		9 15.7 324°00	0°9°/16.6	18	
8 9	23 58.88	- 5 55.4	2.396	3.230	11.9	20.3	8 9	23 55.08	+ 2 26.8	1.896	2.724	14.8	21.3
8 19	23 54.38	- 6 12.5	2.300	3.214	9.2	20.1	8 19	23 51.87	+ 2 5.6	1.810	2.716	11.7	21.1
8 29	23 48.10	- 6 36.2	2.228	3.198	6.0	19.8	8 29	23 46.65	+ 1 28.9	1.745	2.709	8.0	20.8
9 8	23 40.51	- 7 3.1	2.182	3.182	2.7	19.6	9 8	23 39.93	+ 0 39.6	1.705	2.702	3.9	20.6
9 18	23 32.24	- 7 29.4	2.165	3.166	2.0	19.5	9 18	23 32.46	- 0 17.6	1.692	2.696	1.1	20.4
9 28	23 24.07	- 7 50.8	2.177	3.150	5.3	19.7	9 28	23 25.15	- 1 16.3	1.705	2.689	5.1	20.6
10 8	23 16.79	- 8 3.8	2.217	3.133	8.6	19.9	10 8	23 18.92	- 2 9.9	1.746	2.683	9.1	20.9
10 18	23 11.02	- 8 6.0	2.281	3.117	11.7	20.1	10 18	23 14.47	- 2 53.2	1.810	2.678	12.8	21.1
117731	2005 <i>GY</i> ₁₉		9 15.7 185°59	3°0°/19.3	18		336582	2009 <i>SG</i> ₂₆₇		9 15.7 28°98	0°4°/16.0	16	
8 9	23 55.76	+10 17.3	2.168	2.950	14.6	20.2	8 9	0 0.56	- 0 5.1	1.511	2.352	17.3	20.9
8 19	23 52.11	+ 9 50.3	2.079	2.950	11.9	20.0	8 19	23 56.51	- 0 13.1	1.439	2.353	13.5	20.6
8 29	23 46.65	+ 9 3.7	2.011	2.950	8.8	19.8	8 29	23 49.91	- 0 36.3	1.387	2.355	9.1	20.4
9 8	23 39.88	+ 7 59.2	1.968	2.949	5.4	19.6	9 8	23 41.41	- 1 10.9	1.358	2.357	4.2	20.1
9 18	23 32.45	+ 6 40.7	1.952	2.949	3.0	19.4	9 18	23 32.02	- 1 51.8	1.354	2.359	1.1	19.9
9 28	23 25.20	+ 5 14.3	1.964	2.948	4.6	19.5	9 28	23 22.96	- 2 31.9	1.377	2.361	6.1	20.2
10 8	23 18.92	+ 3 47.4	2.005	2.946	7.9	19.7	10 8	23 15.41	- 3 4.7	1.425	2.363	10.8	20.5
10 18	23 14.26	+ 2 26.8	2.072	2.944	11.2	19.9	10 18	23 10.19	- 3 25.3	1.496	2.365	14.9	20.8
158775	2003 <i>SR</i> ₆₄		9 15.7 45°85	1°3°/17.2	18		322016	2010 <i>UL</i> ₉₈		9 15.7 175°49	8°0°/3.6	18	
8 9	23 53.91	+ 4 31.7	2.316	3.126	13.0	19.9	8 9	0 4.08	-35 40.2	3.097	3.908	10.0	21.3
8 19	23 50.52	+ 4 2.1	2.234	3.128	10.3	19.7	8 19	23 57.97	-36 39.5	3.051	3.910	8.9	21.2
8 29	23 45.50	+ 3 18.0	2.174	3.130	7.1	19.5	8 29	23 50.21	-37 28.3	3.029	3.912	8.2	21.1
9 8	23 39.34	+ 2 22.1	2.139	3.133	3.7	19.3	9 8	23 41.35	-38 1.2	3.032	3.913	8.1	21.1
9 18	23 32.62	+ 1 18.7	2.132	3.135	1.3	19.1	9 18	23 32.07	-38 14.2	3.060	3.914	8.8	21.2
9 28	23 26.09	+ 0 13.1	2.154	3.137	4.2	19.3	9 28	23 23.15	-38 5.5	3.113	3.915	9.9	21.3
10 8	23 20.45	- 0 48.9	2.203	3.140	7.6	19.5	10 8	23 15.29	-37 35.3	3.189	3.915	11.1	21.4
10 18	23 16.25	- 1 42.6	2.278	3.142	10.6	19.7	10 18	23 9.03	-36 46.1	3.284	3.914	12.4	21.5
405293	2003 <i>TR</i> ₁₆		9 15.7 355°57	3°3°/19.0	18		324752	2					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
392185	2009 <i>QR</i> ₁₂		9 15.7 157°18	2°6/13.0	17		270376	2002 <i>AM</i> ₄₂		9 15.7 120°27	1°7/13.9	18	
8 9	23 56.78	+ 2 54.6	1.203	2.057	20.0	20.4	8 9	23 59.74	- 4 4.4	1.956	2.794	14.0	20.3
8 19	23 54.18	+ 0 18.2	1.134	2.060	15.3	20.1	8 19	23 55.17	- 4 57.3	1.892	2.809	10.7	20.1
8 29	23 48.67	- 2 53.1	1.087	2.063	9.9	19.8	8 29	23 48.64	- 6 0.6	1.852	2.823	6.9	19.9
9 8	23 40.96	- 6 26.3	1.064	2.066	4.2	19.5	9 8	23 40.76	- 7 8.6	1.837	2.837	3.0	19.7
9 18	23 32.16	- 10 1.6	1.069	2.068	4.1	19.5	9 18	23 32.30	- 8 15.0	1.850	2.850	2.4	19.7
9 28	23 23.74	- 13 17.3	1.102	2.070	9.7	19.8	9 28	23 24.21	- 9 13.2	1.892	2.863	6.1	19.9
10 8	23 17.06	- 15 57.1	1.159	2.072	15.0	20.1	10 8	23 17.32	- 9 58.2	1.961	2.876	9.7	20.2
10 18	23 13.06	- 17 53.8	1.237	2.073	19.5	20.4	10 18	23 12.27	- 10 27.0	2.053	2.888	12.8	20.4
113431	2002 <i>SK</i> ₃₉		9 15.7 62°51	0°7/16.4	18		50843	2000 <i>FS</i> ₄₄		9 15.7 153°64	4°3/11.4	18	
8 9	23 56.71	+ 2 14.5	1.826	2.654	15.3	20.0	8 9	0 2.69	- 14 44.7	2.222	3.068	12.3	18.8
8 19	23 53.08	+ 1 46.4	1.753	2.659	12.0	19.8	8 19	23 57.27	- 15 23.2	2.155	3.073	9.5	18.6
8 29	23 47.40	+ 1 2.6	1.700	2.665	8.1	19.5	8 29	23 49.96	- 16 2.6	2.112	3.078	6.6	18.5
9 8	23 40.24	+ 0 6.5	1.672	2.670	3.8	19.3	9 8	23 41.33	- 16 37.4	2.095	3.083	4.5	18.3
9 18	23 32.40	- 0 56.3	1.671	2.675	1.0	19.1	9 18	23 32.14	- 17 2.3	2.107	3.087	4.9	18.4
9 28	23 24.83	- 1 59.1	1.697	2.681	5.2	19.4	9 28	23 23.30	- 17 13.3	2.147	3.092	7.4	18.5
10 8	23 18.46	- 2 55.1	1.750	2.686	9.3	19.7	10 8	23 15.62	- 17 8.4	2.213	3.095	10.3	18.7
10 18	23 13.95	- 3 39.3	1.827	2.692	12.8	19.9	10 18	23 9.71	- 16 47.6	2.303	3.098	12.9	18.9
478742	2012 <i>UV</i> ₇₈		9 15.7 315°00	6°9/11.1	18		447967	2008 <i>CH</i> ₄₇		9 15.7 79°02	4°1/19.4	18	
8 9	0 5.73	- 18 36.5	1.507	2.371	16.1	21.0	8 9	0 5.18	+ 8 59.7	2.169	2.939	15.0	20.8
8 19	0 0.80	- 19 4.7	1.429	2.354	12.8	20.8	8 19	23 59.16	+ 9 41.3	2.101	2.961	12.3	20.6
8 29	23 52.94	- 19 30.8	1.372	2.337	9.5	20.6	8 29	23 51.20	+ 10 8.1	2.054	2.984	9.1	20.4
9 8	23 42.83	- 19 46.1	1.337	2.321	7.1	20.4	9 8	23 41.87	+ 10 19.7	2.033	3.006	6.0	20.3
9 18	23 31.60	- 19 43.2	1.328	2.305	7.8	20.4	9 18	23 31.98	+ 10 17.4	2.039	3.028	4.1	20.2
9 28	23 20.70	- 19 16.7	1.344	2.289	10.9	20.5	9 28	23 22.45	+ 10 4.2	2.074	3.050	5.2	20.3
10 8	23 11.50	- 18 25.7	1.384	2.274	14.7	20.7	10 8	23 14.12	+ 9 44.6	2.138	3.072	8.0	20.5
10 18	23 4.97	- 17 12.5	1.444	2.260	18.2	20.9	10 18	23 7.64	+ 9 23.5	2.228	3.093	10.8	20.8
354309	2002 <i>TY</i> ₃₁₄		9 15.7 263°52	3°1/12.1	18		432977	2012 <i>OH</i>		9 15.7 11°70	9°2/21.3	18	
8 9	23 56.08	- 7 47.0	2.099	2.949	12.7	21.4	8 9	0 0.57	+ 12 30.8	1.153	1.968	23.1	19.4
8 19	23 52.52	- 8 56.6	2.009	2.934	9.7	21.2	8 19	23 57.39	+ 14 14.7	1.091	1.972	19.6	19.2
8 29	23 47.04	- 10 15.7	1.944	2.918	6.4	21.0	8 29	23 50.98	+ 15 34.2	1.046	1.977	15.7	18.9
9 8	23 40.12	- 11 38.5	1.904	2.901	3.5	20.7	9 8	23 42.07	+ 16 24.2	1.019	1.983	11.8	18.7
9 18	23 32.43	- 12 57.7	1.893	2.885	3.9	20.7	9 18	23 31.89	+ 16 42.1	1.013	1.991	9.3	18.6
9 28	23 24.85	- 14 6.1	1.909	2.868	7.2	20.9	9 28	23 22.09	+ 16 30.9	1.029	2.000	9.9	18.7
10 8	23 18.23	- 14 58.2	1.952	2.851	10.6	21.1	10 8	23 14.23	+ 15 59.0	1.067	2.011	12.9	18.9
10 18	23 13.27	- 15 31.0	2.018	2.834	13.7	21.3	10 18	23 9.39	+ 15 17.2	1.126	2.023	16.5	19.2
100108	1993 <i>FF</i> ₄₅		9 15.7 160°27	0°9/14.9	17		123774	2001 <i>BQ</i> ₆		9 15.7 166°25	2°1/13.1	18	
8 9	0 2.06	- 2 33.6	1.905	2.736	14.6	21.0	8 9	23 57.41	- 8 2.2	2.557	3.396	11.1	20.4
8 19	23 57.10	- 3 5.7	1.831	2.742	11.3	20.8	8 19	23 53.02	- 8 39.9	2.482	3.399	8.4	20.2
8 29	23 50.01	- 3 49.3	1.779	2.748	7.4	20.6	8 29	23 47.08	- 9 22.9	2.430	3.401	5.5	20.0
9 8	23 41.39	- 4 39.9	1.752	2.752	3.2	20.3	9 8	23 40.05	- 10 7.1	2.405	3.403	2.8	19.9
9 18	23 32.07	- 5 32.0	1.754	2.757	1.6	20.2	9 18	23 32.53	- 10 48.1	2.410	3.405	2.7	19.9
9 28	23 23.06	- 6 19.1	1.784	2.760	5.8	20.5	9 28	23 25.22	- 11 21.6	2.443	3.407	5.4	20.0
10 8	23 15.29	- 6 56.1	1.841	2.763	9.8	20.8	10 8	23 18.78	- 11 44.4	2.504	3.408	8.3	20.2
10 18	23 9.48	- 7 19.6	1.922	2.766	13.2	21.0	10 18	23 13.75	- 11 54.5	2.590	3.409	10.9	20.4
123560	2000 <i>XT</i> ₃₃		9 15.7 222°89	3°7/12.3	18		259564	2003 <i>UX</i> ₁₆₅		9 15.7 21°26	2°4/17.5	17	
8 9	0 2.97	- 11 52.9	2.039	2.885	13.2	19.4	8 9	23 54.84	+ 4 56.8	1.055	1.916	21.7	20.4
8 19	23 57.78	- 12 27.2	1.958	2.878	10.2	19.2	8 19	23 52.88	+ 4 48.1	1.000	1.922	17.3	20.1
8 29	23 50.47	- 13 5.3	1.901	2.871	6.9	19.0	8 29	23 47.88	+ 4 12.8	0.962	1.930	12.1	19.9
9 8	23 41.61	- 13 41.5	1.869	2.863	4.1	18.8	9 8	23 40.63	+ 3 14.4	0.943	1.939	6.4	19.6
9 18	23 32.00	- 14 10.1	1.866	2.855	4.4	18.8	9 18	23 32.36	+ 2 0.7	0.946	1.949	2.4	19.4
9 28	23 22.63	- 14 26.3	1.891	2.847	7.4	19.0	9 28	23 24.63	+ 0 42.9	0.972	1.960	6.9	19.7
10 8	23 14.45	- 14 26.8	1.942	2.838	10.8	19.2	10 8	23 18.81	+ 0 27.1	1.020	1.972	12.3	20.1
10 18	23 8.18	- 14 10.9	2.016	2.829	13.9	19.4	10 18	23 15.79	- 1 20.9	1.088	1.985	17.0	20.4
260989	2005 <i>SH</i> ₇₉		9 15.7 164°87	1°3/14.4	17		485892	2012 <i>FH</i> ₄₈		9 15.7 222°55	1°0/14.5	17	
8 9	0 0.61	- 3 21.7	1.905	2.741	14.4	21.1	8 9	23 56.12	- 3 42.7	2.650	3.478	11.1	22.7
8 19	23 56.00	- 4 3.4	1.831	2.745	11.1	20.9	8 19	23 52.06	- 4 16.2	2.561	3.472	8.5	22.5
8 29	23 49.30	- 4 56.5	1.779	2.749	7.2	20.7	8 29	23 46.49	- 4 57.9	2.496	3.465	5.5	22.3
9 8	23 41.08	- 5 55.9	1.752	2.752	3.1	20.4	9 8	23 39.82	- 5 44.3	2.457	3.457	2.4	22.1
9 18	23 32.16	- 6 55.6	1.754	2.755	2.1	20.4	9 18	23 32.62	- 6 31.3	2.448	3.450	1.5	22.0
9 28	23 23.54	- 7 49.0	1.783	2.758	6.1	20.6	9 28	23 25.55	- 7 14.5	2.468	3.442	4.6	22.2
10 8	23 16.13	- 8 30.5	1.840	2.759	9.9	20.9	10 8	23 19.25	- 7 50.0	2.516	3.434	7.7	22.4
10 18	23 10.63	- 8 56.9	1.920	2.760	13.3	21.1	10 18	23 14.27	- 8 15.0	2.590	3.425	10.5	22.6
91805	1999 <i>TB</i> ₂₄₁		9 15.7 319°62	5°1/10.7	18		291481	2006 <i>DX</i> ₉₃		9 15.7 94°96	0°2/15.5	17	
8 9	23 58.50	- 15 34.9	1.986	2.846	13.0	19.4	8 9	23 59.72	+ 0 56.9	1.360	2.207	18.5	21.3
8 19	23 54.42	- 16 21.1	1.911	2.837	10.1	19.2	8 19	23 56.04	+ 0 12.3	1.297	2.216	14.4	21.1
8 29	23 48.28	- 17 8.7	1.860	2.828	7.2	19.0	8 29	23 49.67	- 0 52.2	1.253	2.224	9.6	20.9
9 8	23 40.64	- 17 51.2	1.834	2.820	5.2	18.9	9 8	23 41.36	- 2 10.7	1.233	2.233	4.2	20.6
9 18	23 32.30	- 18 22.4	1.834	2.811	5.9	18.9	9 18	23 32.17	- 3 34.6	1.238	2.242	1.4	20.4
9 28	23 24.22	- 18 37.2	1.861	2.804	8.5	19.1	9 28	23 23.43	- 4 53.8	1.268	2.250	6.8	20.8
10 8	23 17.30	- 18 32.9	1.913	2.796	11.6	19.3	10 8	23 16.36	- 5 59.2	1.324	2.258	11.7	21.1
10 18	23 12.22	- 18 9.4	1.987	2.788	14.4	19.4	10 18	23 11.76	- 6 45.3	1.401	2.267	15.9	21.4
111199	2001 <i>WW</i> ₂₁		9 15.7 43°70										

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
244682	2003 <i>OG</i> ₁₈		9 15.7 342°79	9°1/23.4	18		507969	2015 <i>BX</i> ₇₁		9 15.7 103°24	1°9/17.4	17	
8 9	23 57.23	+18 32.1	1.548	2.310	20.4	19.8	8 9	0 1.49	+ 4 46.2	1.705	2.519	16.8	21.7
8 19	23 54.26	+19 36.3	1.465	2.304	17.7	19.6	8 19	23 56.82	+ 4 30.7	1.640	2.536	13.3	21.5
8 29	23 48.68	+20 15.0	1.398	2.298	14.7	19.4	8 29	23 49.90	+ 3 57.3	1.596	2.552	9.2	21.3
9 8	23 41.03	+20 24.2	1.351	2.293	11.7	19.2	9 8	23 41.39	+ 3 8.9	1.575	2.568	4.8	21.0
9 18	23 32.23	+20 2.3	1.325	2.288	9.5	19.0	9 18	23 32.22	+ 2 10.7	1.582	2.584	1.9	20.9
9 28	23 23.54	+19 12.2	1.323	2.284	9.4	19.0	9 28	23 23.46	+ 1 9.5	1.616	2.600	5.3	21.2
10 8	23 16.24	+18 2.0	1.345	2.281	11.5	19.1	10 8	23 16.12	+ 0 12.7	1.676	2.615	9.4	21.4
10 18	23 11.29	+16 42.1	1.388	2.278	14.5	19.3	10 18	23 10.88	- 0 34.2	1.761	2.629	13.0	21.7
266811	2009 <i>ST</i> ₃₅₉		9 15.7 294°28	2°7/12.8	18		191028	2002 <i>AS</i> ₁₆₈		9 15.7 266°70	2°0/11.3	17	
8 9	23 56.75	- 9 3.4	2.235	3.084	12.1	20.6	8 9	23 48.90	-10 55.2	4.364	5.206	6.8	20.0
8 19	23 52.86	- 9 40.7	2.149	3.072	9.3	20.4	8 19	23 45.99	-11 45.7	4.280	5.199	5.1	19.9
8 29	23 47.18	-10 23.9	2.087	3.060	6.1	20.2	8 29	23 42.24	-12 38.8	4.222	5.193	3.4	19.7
9 8	23 40.18	-11 8.3	2.051	3.049	3.3	20.0	9 8	23 37.89	-13 31.6	4.193	5.186	2.1	19.6
9 18	23 32.53	-11 48.6	2.043	3.037	3.4	20.0	9 18	23 33.26	-14 21.3	4.194	5.179	2.4	19.7
9 28	23 25.02	-12 19.8	2.063	3.026	6.4	20.2	9 28	23 28.70	-15 5.2	4.225	5.172	4.0	19.8
10 8	23 18.46	-12 38.2	2.109	3.014	9.6	20.3	10 8	23 24.56	-15 41.1	4.284	5.165	5.7	19.9
10 18	23 13.48	-12 41.9	2.179	3.003	12.6	20.5	10 18	23 21.14	-16 7.6	4.368	5.159	7.3	20.0
400234	2007 <i>GL</i> ₁₁		9 15.7 126°35	2°1/12.9	18		337265	2000 <i>SP</i> ₂₅₅		9 15.7 354°60	8°5/11.7	18	
8 9	23 55.19	- 6 28.9	2.430	3.272	11.5	21.4	8 9	23 59.84	-19 25.0	0.972	1.872	20.0	20.0
8 19	23 51.40	- 7 26.0	2.359	3.278	8.7	21.2	8 19	23 57.30	-19 38.1	0.916	1.861	16.0	19.7
8 29	23 46.06	- 8 30.5	2.312	3.285	5.7	21.1	8 29	23 51.09	-19 45.4	0.877	1.852	11.8	19.5
9 8	23 39.63	- 9 37.4	2.292	3.291	2.8	20.9	9 8	23 42.16	-19 36.1	0.857	1.846	8.8	19.3
9 18	23 32.71	-10 41.4	2.300	3.296	2.8	20.9	9 18	23 31.98	-19 1.9	0.858	1.842	9.4	19.3
9 28	23 26.00	-11 37.2	2.338	3.302	5.6	21.1	9 28	23 22.49	-17 58.4	0.880	1.840	12.9	19.5
10 8	23 20.18	-12 20.6	2.403	3.307	8.6	21.3	10 8	23 15.34	-16 27.3	0.922	1.841	17.3	19.8
10 18	23 15.77	-12 49.4	2.492	3.313	11.3	21.5	10 18	23 11.52	-14 34.5	0.981	1.844	21.4	20.0
182545	2001 <i>TQ</i> ₇₃		9 15.7 261°50	4°9/10.6	18		400467	2008 <i>GG</i> ₁₁		9 15.7 70°44	1°3/17.2	18	
8 9	0 0.07	-15 36.4	2.160	3.013	12.3	20.4	8 9	23 55.93	+ 4 4.9	2.141	2.953	13.9	21.1
8 19	23 55.51	-16 24.8	2.080	3.001	9.6	20.2	8 19	23 52.15	+ 3 40.5	2.071	2.967	10.9	20.9
8 29	23 48.98	-17 14.8	2.023	2.989	6.8	20.0	8 29	23 46.63	+ 3 1.7	2.023	2.980	7.5	20.7
9 8	23 40.99	-18 0.0	1.992	2.977	5.0	19.9	9 8	23 39.92	+ 2 11.2	2.000	2.994	3.8	20.5
9 18	23 32.29	-18 34.7	1.989	2.965	5.6	19.9	9 18	23 32.67	+ 1 13.6	2.004	3.008	1.3	20.4
9 28	23 23.80	-18 53.7	2.013	2.953	8.2	20.0	9 28	23 25.71	+ 0 14.4	2.037	3.021	4.4	20.6
10 8	23 16.38	-18 54.4	2.063	2.940	11.1	20.2	10 8	23 19.78	- 0 40.7	2.098	3.035	7.9	20.9
10 18	23 10.73	-18 36.5	2.135	2.928	13.9	20.4	10 18	23 15.43	- 1 27.1	2.184	3.049	11.0	21.1
46960	1998 <i>ST</i> ₁₃₀		9 15.7 188°49	3°4/19.6	18		426166	2012 <i>HW</i> ₇₇		9 15.7 105°78	3°7/19.3	17	
8 9	23 55.24	+11 0.9	1.978	2.764	15.7	18.5	8 9	0 0.52	+10 11.1	1.654	2.449	18.0	21.7
8 19	23 51.93	+10 34.5	1.892	2.764	12.9	18.3	8 19	23 56.22	+ 9 59.9	1.587	2.464	14.6	21.5
8 29	23 46.67	+ 9 46.2	1.826	2.764	9.5	18.1	8 29	23 49.59	+ 9 25.7	1.538	2.480	10.7	21.3
9 8	23 39.99	+ 8 37.8	1.783	2.764	6.0	17.9	9 8	23 41.29	+ 8 30.0	1.513	2.495	6.6	21.1
9 18	23 32.60	+ 7 13.3	1.767	2.763	3.4	17.8	9 18	23 32.27	+ 7 17.7	1.513	2.510	3.8	21.0
9 28	23 25.40	+ 5 39.7	1.779	2.763	4.9	17.9	9 28	23 23.66	+ 5 56.2	1.541	2.524	5.6	21.1
10 8	23 19.27	+ 4 5.4	1.819	2.763	8.4	18.1	10 8	23 16.47	+ 4 34.8	1.595	2.538	9.4	21.4
10 18	23 14.87	+ 2 37.9	1.884	2.762	11.9	18.3	10 18	23 11.45	+ 3 21.1	1.673	2.552	13.1	21.6
407121	2009 <i>SW</i> ₃₂₆		9 15.7 330°16	3°6/19.1	18		400221	2007 <i>DR</i> ₁₆		9 15.7 158°76	0°4/15.3	18	
8 9	23 57.62	+ 7 53.5	2.082	2.875	14.8	20.3	8 9	23 59.36	- 2 57.7	2.329	3.155	12.5	21.1
8 19	23 53.73	+ 8 18.4	1.990	2.868	12.1	20.1	8 19	23 54.70	- 3 8.2	2.248	3.157	9.6	20.9
8 29	23 47.87	+ 8 28.3	1.919	2.860	9.0	19.9	8 29	23 48.30	- 3 26.9	2.191	3.158	6.3	20.7
9 8	23 40.54	+ 8 23.3	1.872	2.853	5.7	19.7	9 8	23 40.67	- 3 50.8	2.160	3.159	2.8	20.5
9 18	23 32.43	+ 8 5.0	1.852	2.846	3.6	19.6	9 18	23 32.46	- 4 16.4	2.157	3.161	1.1	20.3
9 28	23 24.44	+ 7 37.0	1.859	2.840	5.1	19.6	9 28	23 24.46	- 4 39.5	2.184	3.162	4.7	20.6
10 8	23 17.44	+ 7 4.4	1.892	2.834	8.3	19.8	10 8	23 17.44	- 4 56.4	2.238	3.163	8.1	20.8
10 18	23 12.15	+ 6 32.5	1.951	2.828	11.6	20.0	10 18	23 11.97	- 5 4.6	2.317	3.164	11.1	21.0
324828	2007 <i>HM</i> ₉₆		9 15.7 63°85	2°8/12.6	18		366126	2012 <i>DT</i> ₅₇		9 15.7 315°41	1°6/16.8	18	
8 9	23 58.03	-10 12.5	2.300	3.147	11.9	20.5	8 9	23 56.58	+ 2 42.8	1.193	2.049	20.0	21.0
8 19	23 53.68	-10 45.6	2.228	3.149	9.1	20.3	8 19	23 54.32	+ 2 37.5	1.112	2.034	16.0	20.7
8 29	23 47.61	-11 22.8	2.180	3.152	6.0	20.2	8 29	23 49.05	+ 2 10.0	1.049	2.019	11.1	20.4
9 8	23 40.33	-11 59.5	2.158	3.154	3.3	20.0	9 8	23 41.32	+ 1 22.4	1.006	2.004	5.6	20.1
9 18	23 32.52	-12 30.9	2.164	3.157	3.5	20.0	9 18	23 32.21	+ 0 20.7	0.986	1.990	1.7	19.8
9 28	23 24.97	-12 52.8	2.199	3.159	6.2	20.2	9 28	23 23.22	- 0 45.6	0.990	1.977	7.1	20.1
10 8	23 18.41	-13 2.2	2.260	3.162	9.2	20.4	10 8	23 15.89	- 1 45.5	1.016	1.964	12.8	20.4
10 18	23 13.41	-12 57.8	2.345	3.164	11.9	20.6	10 18	23 11.33	- 2 30.7	1.062	1.952	17.9	20.6
166372	2002 <i>LO</i> ₃₂		9 15.7 64°09	5°3/10.4	17		479360	2013 <i>XU</i> ₈		9 15.7 313°31	9°2/22.9	18	
8 9	23 57.67	-11 43.5	1.600	2.469	15.1	19.6	8 9	23 55.16	+17 37.5	1.407	2.187	21.3	21.1
8 19	23 53.98	-13 18.0	1.555	2.488	11.5	19.4	8 19	23 53.09	+18 32.8	1.310	2.164	18.6	20.8
8 29	23 48.03	-14 57.7	1.532	2.506	7.8	19.3	8 29	23 48.22	+19 1.0	1.229	2.141	15.4	20.5
9 8	23 40.55	-16 32.8	1.535	2.525	5.4	19.2	9 8	23 40.99	+18 57.1	1.167	2.119	12.1	20.3
9 18	23 32.48	-17 53.9	1.563	2.544	6.3	19.3	9 18	23 32.29	+18 18.8	1.126	2.097	9.6	20.1
9 28	23 24.90	-18 53.6	1.618	2.562	9.4	19.5	9 28	23 23.47	+17 8.8	1.107	2.076	9.6	20.0
10 8	23 18.78	-19 28.2	1.696	2.581	12.7	19.8	10 8	23 16.00	+15 36.5	1.111	2.056	12.4	20.1
10 18	23 14.76	-19 37.7	1.795	2.600	15.6	20.0	10 18	23 11.08	+13 54.3	1.137	2.037	16.2	20.3
173660	2001 <i>HD</i> ₅₃		9 15.7 147°64	0°4/15.3	17		348						

EPHEMERIDES

9 15.7

9 15.7

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
4602	Heudier		9 15.7 325°87	8°1/23.4	18		506912	2008 DE ₄₉		9 15.7 208°73	3°9/11.8	18	
8 9	23 53.31	+18 33.3	1.564	2.332	20.0	16.2	8 9	0 1.28	-9 41.3	1.878	2.728	14.0	21.9
8 19	23 51.22	+19 3.5	1.472	2.318	17.3	16.0	8 19	23 56.74	-10 50.9	1.799	2.722	10.8	21.7
8 29	23 46.68	+19 5.2	1.397	2.304	14.2	15.7	8 29	23 49.97	-12 8.6	1.744	2.716	7.2	21.5
9 8	23 40.19	+18 35.4	1.341	2.291	11.0	15.5	9 8	23 41.54	-13 27.4	1.714	2.709	4.3	21.3
9 18	23 32.58	+17 34.0	1.306	2.278	8.5	15.4	9 18	23 32.29	-14 39.1	1.713	2.701	4.8	21.3
9 28	23 25.03	+16 5.6	1.296	2.266	8.4	15.3	9 28	23 23.24	-15 36.3	1.739	2.693	8.1	21.5
10 8	23 18.76	+14 20.2	1.310	2.255	10.8	15.4	10 8	23 15.42	-16 14.1	1.790	2.684	11.7	21.7
10 18	23 14.71	+12 29.6	1.347	2.245	14.3	15.6	10 18	23 9.59	-16 30.5	1.864	2.674	14.9	21.9
514341	2016 PZ ₉₀		9 15.7 347°22	6°1/11.9	18		238689	2005 EL ₂₅₃		9 15.7 353°38	1°8/14.3	18	
8 9	0 3.56	-16 6.6	1.375	2.248	16.9	20.2	8 9	23 57.94	-5 4.3	1.554	2.412	16.0	20.0
8 19	23 59.19	-16 28.1	1.309	2.240	13.3	20.0	8 19	23 54.49	-5 29.0	1.482	2.409	12.4	19.8
8 29	23 51.89	-16 49.2	1.262	2.234	9.4	19.8	8 29	23 48.62	-6 4.8	1.431	2.406	8.1	19.6
9 8	23 42.42	-17 1.9	1.238	2.229	6.4	19.6	9 8	23 40.97	-6 46.3	1.403	2.404	3.6	19.3
9 18	23 31.95	-16 59.0	1.239	2.224	6.9	19.6	9 18	23 32.46	-7 27.1	1.401	2.403	2.6	19.2
9 28	23 21.97	-16 35.5	1.264	2.220	10.3	19.8	9 28	23 24.26	-8 0.4	1.425	2.402	6.9	19.5
10 8	23 13.79	-15 50.1	1.312	2.218	14.2	20.0	10 8	23 17.46	-8 20.6	1.474	2.402	11.3	19.7
10 18	23 8.32	-14 44.8	1.381	2.216	17.9	20.3	10 18	23 12.85	-8 24.9	1.545	2.402	15.1	20.0
50474	2000 DY ₇₂		9 15.7 269°86	0°2/15.6	18		292467	2006 SE ₃₇₈		9 15.7 331°83	3°7/11.6	18	
8 9	23 59.68	-0 32.4	1.653	2.491	16.2	19.6	8 9	23 55.34	-8 59.6	1.894	2.754	13.5	20.8
8 19	23 55.92	-0 57.6	1.560	2.474	12.7	19.4	8 19	23 52.08	-10 13.6	1.823	2.752	10.3	20.6
8 29	23 49.67	-1 38.4	1.487	2.457	8.5	19.1	8 29	23 46.82	-11 36.0	1.775	2.750	6.8	20.4
9 8	23 41.48	-2 31.3	1.439	2.439	3.8	18.8	9 8	23 40.12	-12 59.7	1.752	2.748	4.0	20.2
9 18	23 32.20	-3 30.2	1.417	2.421	1.3	18.6	9 18	23 32.72	-14 16.9	1.756	2.746	4.6	20.2
9 28	23 22.98	-4 27.7	1.422	2.403	6.3	18.9	9 28	23 25.56	-15 20.2	1.788	2.744	7.8	20.4
10 8	23 15.02	-5 16.3	1.452	2.384	11.1	19.1	10 8	23 19.52	-16 4.6	1.844	2.742	11.2	20.6
10 18	23 9.22	-5 50.4	1.505	2.366	15.3	19.3	10 18	23 15.27	-16 27.9	1.923	2.740	14.3	20.8
121744	1999 XV ₂₀₅		9 15.7 179°41	10°2/27.1	18		361922	2008 GL ₁₂₁		9 15.7 249°11	6°4/9.1	18	
8 9	0 2.35	-44 20.5	2.982	3.767	11.0	19.9	8 9	0 2.99	-21 48.9	2.275	3.122	12.0	20.9
8 19	23 57.15	-45 58.7	2.956	3.768	10.4	19.9	8 19	23 57.68	-22 36.1	2.201	3.112	9.6	20.7
8 29	23 49.98	-47 21.8	2.953	3.768	10.2	19.9	8 29	23 50.38	-23 19.8	2.151	3.103	7.5	20.6
9 8	23 41.43	-48 23.6	2.972	3.769	10.6	19.9	9 8	23 41.66	-23 53.5	2.128	3.093	6.4	20.5
9 18	23 32.27	-48 59.9	3.013	3.769	11.3	20.0	9 18	23 32.28	-24 11.8	2.131	3.084	7.1	20.5
9 28	23 23.43	-49 8.9	3.074	3.768	12.2	20.1	9 28	23 23.19	-24 10.6	2.161	3.074	9.2	20.6
10 8	23 15.76	-48 51.5	3.152	3.768	13.1	20.1	10 8	23 15.24	-23 48.8	2.217	3.064	11.7	20.8
10 18	23 9.92	-48 10.7	3.246	3.766	14.0	20.2	10 18	23 9.10	-23 7.5	2.294	3.053	14.0	20.9
101315	1998 SL ₁₄₃		9 15.7 342°19	2°7/18.3	18		42126	2001 BC ₁₅		9 15.7 77°77	1°3/14.2	18	
8 9	23 49.63	+7 40.7	1.361	2.201	18.9	18.5	8 9	23 56.71	-4 21.2	2.248	3.085	12.5	18.9
8 19	23 48.49	+7 14.8	1.279	2.187	15.3	18.3	8 19	23 52.65	-4 59.5	2.183	3.099	9.5	18.8
8 29	23 44.89	+6 21.5	1.214	2.175	11.0	18.0	8 29	23 46.94	-5 46.2	2.142	3.113	6.1	18.6
9 8	23 39.39	+5 3.1	1.171	2.163	6.2	17.7	9 8	23 40.09	-6 36.8	2.127	3.127	2.7	18.4
9 18	23 32.87	+3 25.5	1.151	2.153	2.7	17.5	9 18	23 32.76	-7 26.5	2.140	3.141	1.9	18.4
9 28	23 26.50	+1 39.3	1.156	2.144	6.0	17.6	9 28	23 25.72	-8 10.2	2.182	3.155	5.2	18.6
10 8	23 21.49	-0 3.3	1.185	2.137	11.0	17.9	10 8	23 19.69	-8 43.8	2.251	3.169	8.5	18.9
10 18	23 18.73	-1 31.8	1.236	2.130	15.5	18.2	10 18	23 15.19	-9 4.8	2.345	3.183	11.3	19.1
66944	1999 WQ ₂₀		9 15.7 345°24	4°9/20.4	18		220862	2004 VQ ₉₀		9 15.7 314°36	1°6/14.1	18	
8 9	23 50.32	+12 22.5	1.380	2.197	19.9	18.3	8 9	23 55.02	-4 35.0	2.027	2.873	13.3	20.4
8 19	23 49.01	+12 13.7	1.298	2.187	16.5	18.1	8 19	23 51.78	-5 12.5	1.938	2.859	10.2	20.2
8 29	23 45.24	+11 35.0	1.234	2.178	12.6	17.8	8 29	23 46.64	-6 0.3	1.872	2.845	6.7	19.9
9 8	23 39.55	+10 26.3	1.189	2.170	8.3	17.5	9 8	23 40.06	-6 53.8	1.831	2.832	3.0	19.7
9 18	23 32.83	+8 52.0	1.168	2.163	5.1	17.3	9 18	23 32.75	-7 47.7	1.818	2.819	2.3	19.6
9 28	23 26.30	+7 1.4	1.171	2.157	6.4	17.4	9 28	23 25.56	-8 35.6	1.832	2.806	6.0	19.8
10 8	23 21.14	+5 7.0	1.198	2.153	10.6	17.6	10 8	23 19.35	-9 12.4	1.872	2.793	9.7	20.0
10 18	23 18.24	+3 20.9	1.248	2.149	14.9	17.9	10 18	23 14.82	-9 34.7	1.936	2.781	13.1	20.2
271093	2003 QR ₂₂		9 15.7 343°19	2°6/18.2	18		293376	2007 EZ ₂₀		9 15.7 186°98	0°4/15.2	18	
8 9	23 52.51	+5 53.5	1.717	2.543	16.2	19.9	8 9	23 56.84	-2 2.0	2.613	3.435	11.4	22.1
8 19	23 50.19	+5 51.0	1.629	2.530	13.1	19.6	8 19	23 52.63	-2 29.6	2.529	3.435	8.8	21.9
8 29	23 45.75	+5 29.8	1.562	2.518	9.4	19.4	8 29	23 46.90	-3 6.0	2.468	3.434	5.8	21.7
9 8	23 39.70	+4 51.6	1.517	2.508	5.3	19.1	9 8	23 40.09	-3 48.1	2.434	3.433	2.5	21.5
9 18	23 32.79	+3 59.9	1.497	2.498	2.6	18.9	9 18	23 32.76	-4 32.1	2.429	3.432	1.1	21.4
9 28	23 26.01	+3 1.2	1.503	2.489	5.3	19.1	9 28	23 25.59	-5 13.6	2.453	3.430	4.4	21.6
10 8	23 20.36	+2 2.9	1.534	2.481	9.4	19.3	10 8	23 19.23	-5 48.6	2.506	3.429	7.5	21.8
10 18	23 16.59	+1 11.7	1.589	2.475	13.2	19.5	10 18	23 14.22	-6 14.3	2.584	3.426	10.3	22.0
362629	2011 ST ₁₂₇		9 15.7 266°38	1°7/17.7	18		372811	2010 TS ₈₅		9 15.7 266°14	3°2/13.4	18	
8 9	23 55.48	+6 25.6	2.223	3.023	13.8	21.3	8 9	0 3.12	-7 56.0	1.492	2.350	16.6	21.9
8 19	23 52.05	+5 48.1	2.116	3.003	11.1	21.1	8 19	23 58.83	-8 29.6	1.409	2.336	12.9	21.6
8 29	23 46.79	+4 52.4	2.030	2.982	7.8	20.9	8 29	23 51.74	-9 13.1	1.347	2.322	8.6	21.4
9 8	23 40.12	+3 40.8	1.970	2.961	4.2	20.6	9 8	23 42.47	-10 0.0	1.308	2.307	4.3	21.1
9 18	23 32.66	+2 17.4	1.937	2.940	1.7	20.4	9 18	23 32.03	-10 42.6	1.295	2.293	4.0	21.0
9 28	23 25.23	+0 48.8	1.934	2.918	4.6	20.6	9 28	23 21.77	-11 13.1	1.308	2.278	8.4	21.3
10 8	23 18.65	-0 37.9	1.959	2.896	8.3	20.7	10 8	23 13.02	-11 26.0	1.346	2.263	13.0	21.5
10 18	23 13.62	-1 55.9	2.009	2.873	11.8	20.9	10 18	23 6.78	-11 19.0	1.404	2.248	17.1	21.7
510038	2010 CM ₁₈₃		9 15.7 205°32	1°1/14.4	18		155097	2005 SE ₂₁₁		9 15.7 349°58	0°8/16.3	18	
8 9	23 58.53	-2 42.3	2.332	3.158	12.4	22.8							

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
2146	Stentor		9 15.7 312°95	5°6/ 2.4 18			316553	2010 Y7 ₁		9 15.7 286°19	3°6/23.5 16		
8 9	23 50.89	-29 9.2	4.043	4.882	7.3	16.9	8 9	23 49.86	+18 24.7	4.535	5.233	8.7	20.4
8 19	23 47.76	-30 37.4	3.986	4.876	6.3	16.8	8 19	23 46.77	+18 30.8	4.430	5.228	7.4	20.3
8 29	23 43.55	-32 1.0	3.956	4.869	5.6	16.8	8 29	23 42.81	+18 25.9	4.347	5.222	6.1	20.2
9 8	23 38.58	-33 15.7	3.954	4.863	5.7	16.8	9 8	23 38.24	+18 10.1	4.288	5.217	4.7	20.1
9 18	23 33.22	-34 17.8	3.979	4.856	6.4	16.8	9 18	23 33.35	+17 44.2	4.255	5.212	3.7	20.0
9 28	23 27.93	-35 4.6	4.029	4.850	7.5	16.9	9 28	23 28.53	+17 9.7	4.252	5.207	3.7	20.0
10 8	23 23.16	-35 34.9	4.104	4.844	8.6	17.0	10 8	23 24.11	+16 29.1	4.277	5.202	4.6	20.0
10 18	23 19.30	-35 48.6	4.198	4.837	9.7	17.1	10 18	23 20.42	+15 45.1	4.330	5.197	5.9	20.1
11067	Greenancy		9 15.7 325°97	0°4/15.4 18			163028	2001 XQ ₆₉		9 15.7 327°41	2°0/14.3 18		
8 9	23 55.38	- 0 53.9	1.942	2.780	14.1	17.7	8 9	23 56.81	- 2 53.6	1.164	2.037	19.3	20.4
8 19	23 52.09	- 1 25.4	1.859	2.774	11.0	17.4	8 19	23 54.46	- 3 39.6	1.094	2.029	15.0	20.1
8 29	23 46.85	- 2 9.9	1.798	2.768	7.3	17.2	8 29	23 49.08	- 4 44.8	1.042	2.021	9.9	19.8
9 8	23 40.16	- 3 3.5	1.762	2.762	3.2	17.0	9 8	23 41.36	- 6 2.2	1.012	2.014	4.3	19.4
9 18	23 32.75	- 4 1.0	1.752	2.756	1.2	16.8	9 18	23 32.41	- 7 21.7	1.005	2.008	3.0	19.3
9 28	23 25.52	- 4 55.9	1.771	2.751	5.4	17.1	9 28	23 23.78	- 8 31.5	1.022	2.002	8.5	19.6
10 8	23 19.34	- 5 42.4	1.815	2.746	9.3	17.3	10 8	23 16.89	- 9 22.2	1.062	1.996	13.9	19.9
10 18	23 14.90	- 6 16.0	1.884	2.741	12.8	17.5	10 18	23 12.78	- 9 48.5	1.120	1.991	18.6	20.2
150887	2001 SY ₂₄₈		9 15.7 69°45	1°0/14.9 16			374224	2005 FS ₁₄		9 15.7 168°96	3°6/12.6 17		
8 9	23 59.75	- 2 26.1	1.551	2.399	16.6	20.2	8 9	23 55.10	+ 8 23.7	2.364	3.152	13.4	19.3
8 19	23 55.82	- 2 58.1	1.485	2.405	12.8	20.0	8 19	23 51.55	+ 8 15.0	2.273	3.148	10.9	19.2
8 29	23 49.45	- 3 43.8	1.439	2.411	8.4	19.8	8 29	23 46.34	+ 7 50.6	2.203	3.144	8.0	19.0
9 8	23 41.33	- 4 38.0	1.417	2.417	3.6	19.5	9 8	23 39.91	+ 7 11.9	2.157	3.140	4.9	18.8
9 18	23 32.42	- 5 33.9	1.420	2.424	1.9	19.4	9 18	23 32.25	-13 5.0	1.591	2.584	4.4	20.9
9 28	23 23.89	- 6 23.9	1.451	2.430	6.5	19.7	9 28	23 22.80	-13 46.3	1.625	2.585	8.0	21.1
10 8	23 16.82	- 7 1.6	1.506	2.436	11.0	20.0	10 8	23 14.77	-14 9.1	1.683	2.586	11.8	21.3
10 18	23 11.98	- 7 23.3	1.585	2.443	14.8	20.3	10 18	23 8.93	-14 12.2	1.764	2.586	15.1	21.5
223162	2002 XV ₇₅		9 15.7 277°94	0°8/16.3 18			69960	1998 VN ₃₁		9 15.7 277°86	2°7/19.0 18		
8 9	0 0.50	+ 1 1.0	1.656	2.488	16.4	21.5	8 9	23 55.10	+ 8 23.7	2.364	3.152	13.4	19.3
8 19	23 56.65	+ 0 51.6	1.558	2.467	13.1	21.2	8 19	23 51.55	+ 8 15.0	2.273	3.148	10.9	19.2
8 29	23 50.26	+ 0 26.5	1.480	2.445	9.0	20.9	8 29	23 46.34	+ 7 50.6	2.203	3.144	8.0	19.0
9 8	23 41.84	+ 0 12.0	1.425	2.423	4.3	20.6	9 8	23 39.91	+ 7 11.9	2.157	3.140	4.9	18.8
9 18	23 32.23	- 0 59.2	1.396	2.401	1.1	20.3	9 18	23 32.87	+ 6 21.5	2.139	3.136	2.7	18.6
9 28	23 22.61	- 1 48.4	1.395	2.378	6.1	20.6	9 28	23 25.96	+ 5 24.1	2.149	3.132	4.3	18.7
10 8	23 14.20	- 2 32.3	1.419	2.355	10.9	20.8	10 8	23 19.90	+ 4 25.2	2.187	3.128	7.4	18.9
10 18	23 7.99	- 3 4.9	1.465	2.332	15.2	21.0	10 18	23 15.30	+ 3 30.2	2.251	3.124	10.4	19.1
388194	2006 DH ₉₃		9 15.7 191°25	0°2/15.9 18			127330	2002 JL ₁₀₈		9 15.7 220°35	2°5/12.2 18		
8 9	0 0.64	- 0 14.5	2.082	2.903	13.9	22.6	8 9	23 53.97	- 5 24.7	2.389	3.232	11.7	19.7
8 19	23 55.97	- 0 32.9	1.998	2.902	10.8	22.4	8 19	23 50.64	- 6 56.6	2.308	3.228	8.8	19.5
8 29	23 49.33	- 1 3.2	1.937	2.901	7.3	22.2	8 29	23 45.71	- 8 39.0	2.251	3.225	5.7	19.3
9 8	23 41.24	- 1 42.2	1.901	2.899	3.3	21.9	9 8	23 39.62	-10 25.8	2.223	3.221	2.9	19.1
9 18	23 32.45	- 2 25.5	1.893	2.897	0.9	21.7	9 18	23 32.96	-12 10.1	2.224	3.217	3.3	19.1
9 28	23 23.85	- 3 7.9	1.913	2.894	5.0	22.0	9 28	23 26.43	-13 44.5	2.255	3.213	6.2	19.3
10 8	23 16.34	- 3 44.2	1.961	2.891	8.8	22.3	10 8	23 20.74	-15 3.5	2.313	3.209	9.3	19.5
10 18	23 10.58	- 4 10.4	2.035	2.887	12.2	22.5	10 18	23 16.45	-16 3.7	2.396	3.204	12.1	19.7
342458	2008 UF ₁₁₅		9 15.7 185°01	1°7/14.1 18			211824	2004 EB ₂₃		9 15.7 40°73	0°6/15.1 16		
8 9	0 2.46	- 6 22.7	2.107	2.941	13.3	21.4	8 9	23 54.48	+ 2 49.7	1.450	2.295	17.7	19.7
8 19	23 57.32	- 6 45.8	2.027	2.941	10.2	21.2	8 19	23 51.60	+ 1 13.2	1.409	2.328	13.5	19.6
8 29	23 50.18	- 7 16.1	1.971	2.941	6.7	21.0	8 29	23 46.51	- 0 43.4	1.389	2.361	8.7	19.4
9 8	23 41.60	- 7 49.3	1.941	2.940	3.0	20.8	9 8	23 39.95	- 2 51.0	1.393	2.394	3.7	19.2
9 18	23 32.35	- 8 20.6	1.939	2.939	2.4	20.7	9 18	23 32.90	- 4 58.7	1.424	2.428	1.6	19.1
9 28	23 23.35	- 8 45.3	1.966	2.938	5.9	21.0	9 28	23 26.41	- 6 55.1	1.483	2.462	6.3	19.5
10 8	23 15.47	- 8 59.4	2.021	2.935	9.5	21.2	10 8	23 21.40	- 8 31.3	1.567	2.497	10.6	19.8
10 18	23 9.39	- 9 1.0	2.099	2.933	12.6	21.4	10 18	23 18.43	- 9 43.1	1.674	2.532	14.2	20.1
287326	2002 TK ₂₉₈		9 15.7 328°06	5°6/11.8 18			500825	2013 GM ₁₂₇		9 15.7 33°56	3°2/13.4 17		
8 9	0 3.34	-15 54.2	1.570	2.434	15.6	20.1	8 9	23 55.78	- 4 6.4	0.939	1.830	21.3	20.2
8 19	23 58.82	-16 17.0	1.493	2.421	12.2	19.8	8 19	23 53.78	- 5 16.4	0.900	1.844	16.2	20.0
8 29	23 51.60	-16 39.9	1.438	2.408	8.7	19.6	8 29	23 48.53	- 6 44.7	0.877	1.860	10.4	19.7
9 8	23 42.36	-16 55.8	1.406	2.395	5.9	19.4	9 8	23 41.00	- 8 20.0	0.875	1.877	4.8	19.5
9 18	23 32.12	-16 57.7	1.399	2.383	6.4	19.4	9 18	23 32.60	- 9 48.8	0.895	1.895	4.4	19.5
9 28	23 22.21	-16 40.8	1.418	2.372	9.6	19.6	9 28	23 24.97	-10 58.4	0.937	1.914	9.6	19.9
10 8	23 13.85	-16 3.1	1.461	2.362	13.4	19.8	10 8	23 19.48	-11 41.1	1.001	1.934	14.7	20.3
10 18	23 7.92	-15 5.9	1.526	2.352	16.9	20.0	10 18	23 16.91	-11 55.0	1.082	1.954	19.1	20.6
53485	2000 AU ₅₈		9 15.7 101°92	2°0/14.0 18			343549	2010 FG ₂₅		9 15.7 268°41	2°2/13.6 18		
8 9	0 2.59	- 4 57.1	1.652	2.497	15.8	19.4	8 9	23 58.25	- 5 28.2	1.773	2.624	14.7	20.7
8 19	23 57.72	- 5 39.7	1.594	2.514	12.1	19.2	8 19	23 54.52	- 6 14.3	1.694	2.617	11.3	20.4
8 29	23 50.54	- 6 32.9	1.559	2.531	7.8	19.0	8 29	23 48.58	- 7 11.4	1.636	2.610	7.4	20.2
9 8	23 41.75	- 7 30.5	1.547	2.548	3.5	18.8	9 8	23 40.99	- 8 13.9	1.603	2.603	3.4	19.9
9 18	23 32.33	- 8 25.5	1.563	2.564	2.7	18.8	9 18	23 32.57	- 9 15.0	1.597	2.596	3.0	19.9
9 28	23 23.40	- 9 11.0	1.607	2.579	6.8	19.1	9 28	23 24.36	-10 7.2	1.618	2.589	6.9	20.1
10 8	23 15.97	- 9 41.9	1.676	2.594	10.8	19.4	10 8	23 17.36	-10 44.8	1.664	2.582	11.0	20.4
10 18	23 10.71	- 9 56.0	1.768	2.609	14.3	19.6	10 18	23 12.34	-11 4.8	1.734	2.575	14.5	20.6
185533	2007 WG ₅₃		9 15.7 19°88	0°5/15.3 18			66921	1999 VY ₁₇₈		9 15.7 3°95	2°9/12.8 18		
8 9	23 56.97	- 1 22.5											

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
310629	2002 AV ₂₀₉	9 15.7 139°56		2°0/17.4 17			60778	2000 GU ₁₆₂	9 15.8 140°53		2°1/13.8 18		
8 9	0 2.59	+ 4 34.3	1.560	2.379	17.8	21.6	8 9	0 1.35	- 5 21.1	1.798	2.641	14.8	20.3
8 19	23 58.07	+ 4 24.9	1.488	2.386	14.2	21.4	8 19	23 56.74	- 6 6.7	1.730	2.649	11.4	20.1
8 29	23 51.00	+ 3 56.2	1.435	2.393	9.9	21.1	8 29	23 49.92	- 7 2.4	1.684	2.657	7.4	19.9
9 8	23 42.08	+ 3 10.9	1.406	2.400	5.2	20.9	9 8	23 41.55	- 8 2.5	1.664	2.664	3.4	19.7
9 18	23 32.27	+ 2 14.1	1.403	2.406	2.0	20.7	9 18	23 32.48	- 9 0.2	1.671	2.671	2.8	19.6
9 28	23 22.82	+ 1 13.1	1.427	2.412	5.7	20.9	9 28	23 23.76	- 9 48.7	1.706	2.677	6.7	19.9
10 8	23 14.87	+ 0 16.0	1.477	2.417	10.3	21.2	10 8	23 16.36	-10 23.1	1.767	2.683	10.5	20.1
10 18	23 9.26	- 0 30.6	1.550	2.422	14.3	21.5	10 18	23 10.97	-10 40.6	1.851	2.688	13.9	20.4
213119	2000 AT ₂₂₀	9 15.7 264°02		1°1/18.1 18			209222	2003 WJ ₆₃	9 15.8 327°62		2°2/13.9 18		
8 9	23 49.88	+ 4 54.5	4.594	5.377	7.4	20.3	8 9	23 57.97	- 5 50.2	1.625	2.482	15.5	20.3
8 19	23 46.71	+ 4 46.7	4.498	5.374	5.9	20.2	8 19	23 54.50	- 6 22.9	1.548	2.475	12.0	20.0
8 29	23 42.74	+ 4 32.1	4.426	5.372	4.2	20.1	8 29	23 48.68	- 7 6.2	1.492	2.468	7.8	19.8
9 8	23 38.21	+ 4 11.6	4.381	5.369	2.4	19.9	9 8	23 41.08	- 7 54.6	1.460	2.461	3.6	19.5
9 18	23 33.41	+ 3 46.8	4.366	5.367	1.1	19.8	9 18	23 32.60	- 8 41.4	1.454	2.454	3.0	19.5
9 28	23 28.68	+ 3 19.7	4.381	5.364	2.3	19.9	9 28	23 24.36	- 9 19.5	1.474	2.448	7.1	19.7
10 8	23 24.34	+ 2 52.4	4.426	5.361	4.1	20.0	10 8	23 17.44	- 9 43.5	1.519	2.443	11.4	19.9
10 18	23 20.69	+ 2 27.0	4.499	5.359	5.9	20.2	10 18	23 12.64	- 9 50.3	1.586	2.437	15.1	20.2
381088	2007 BY ₅₆	9 15.7 204°76		2°4/13.3 17			517877	2015 RC ₂₅₉	9 15.8 311°60		4°0/20.5 18		
8 9	0 1.44	- 6 51.2	2.056	2.895	13.4	22.5	8 9	23 54.96	+12 2.0	2.288	3.059	14.3	21.2
8 19	23 56.67	- 7 39.6	1.973	2.890	10.3	22.2	8 19	23 51.56	+12 4.1	2.195	3.054	11.9	21.1
8 29	23 49.85	- 8 36.6	1.913	2.885	6.7	22.0	8 29	23 46.42	+11 48.3	2.123	3.050	9.0	20.9
9 8	23 41.52	- 9 36.9	1.880	2.879	3.3	21.8	9 8	23 40.00	+11 15.0	2.074	3.045	6.1	20.7
9 18	23 32.44	-10 34.3	1.875	2.872	3.2	21.8	9 18	23 32.93	+10 26.4	2.052	3.041	4.1	20.5
9 28	23 23.54	-11 22.6	1.898	2.864	6.6	22.0	9 28	23 25.97	+ 9 26.6	2.058	3.036	4.9	20.6
10 8	23 15.76	-11 56.9	1.948	2.855	10.2	22.2	10 8	23 19.91	+ 8 21.8	2.091	3.032	7.6	20.8
10 18	23 9.79	-12 14.7	2.023	2.846	13.4	22.4	10 18	23 15.35	+ 7 18.0	2.149	3.028	10.6	20.9
69406	1995 SX ₄₈	9 15.7 110°40		20°8/29.1 18			77186	2001 FS ₉	9 15.8 78°59		1°5/14.7 18 R		
8 9	0 13.62	+31 13.5	1.161	1.851	29.3	17.4	8 9	0 4.37	- 4 57.1	1.452	2.302	17.4	18.8
8 19	0 9.01	+34 37.0	1.099	1.854	27.3	17.3	8 19	23 59.50	- 5 11.5	1.390	2.312	13.4	18.6
8 29	23 59.89	+37 29.5	1.050	1.857	25.1	17.1	8 29	23 51.95	- 5 36.5	1.349	2.322	8.8	18.4
9 8	23 46.69	+39 36.0	1.014	1.859	23.0	17.0	9 8	23 42.50	- 6 7.0	1.331	2.332	3.8	18.1
9 18	23 30.79	+40 43.4	0.994	1.862	21.5	16.9	9 18	23 32.23	- 6 36.7	1.340	2.342	2.3	18.0
9 28	23 14.62	+40 45.8	0.991	1.864	20.8	16.9	9 28	23 22.48	- 6 59.2	1.374	2.352	7.0	18.4
10 8	23 0.88	+39 50.1	1.004	1.867	21.2	16.9	10 8	23 14.42	- 7 9.6	1.434	2.362	11.5	18.7
10 18	22 51.51	+38 12.1	1.033	1.869	22.5	17.0	10 18	23 8.86	- 7 5.5	1.516	2.372	15.4	18.9
508534	2016 RD ₄₅	9 15.7 184°94		6°3/ 8.6 18			336900	2011 GE ₈₄	9 15.8 70°88		1°1/16.7 16		
8 9	0 2.34	-20 36.7	2.276	3.124	11.9	22.1	8 9	23 57.87	+ 3 21.6	1.619	2.449	16.8	21.3
8 19	23 57.16	-21 45.4	2.211	3.124	9.5	21.9	8 19	23 54.30	+ 2 52.0	1.549	2.456	13.2	21.1
8 29	23 50.04	-22 51.9	2.171	3.124	7.4	21.8	8 29	23 48.45	+ 2 3.8	1.500	2.464	9.0	20.8
9 8	23 41.55	-23 49.1	2.157	3.123	6.3	21.7	9 8	23 40.94	+ 1 0.8	1.475	2.471	4.4	20.6
9 18	23 32.45	-24 30.9	2.171	3.122	7.2	21.8	9 18	23 32.68	- 0 10.7	1.475	2.479	1.2	20.4
9 28	23 23.64	-24 52.8	2.211	3.120	9.2	21.9	9 28	23 24.75	- 1 22.8	1.503	2.487	5.5	20.7
10 8	23 15.98	-24 53.2	2.277	3.117	11.6	22.1	10 8	23 18.17	- 2 27.4	1.556	2.495	9.9	21.0
10 18	23 10.08	-24 32.7	2.364	3.114	13.9	22.2	10 18	23 13.68	- 3 18.7	1.633	2.503	13.8	21.2
468086	2013 TX ₈₀	9 15.7 22°07		2°4/17.3 16			48473	1991 TU ₉	9 15.8 101°87		2°0/13.9 17		
8 9	23 55.57	+ 3 3.6	0.904	1.781	23.2	20.2	8 9	0 2.03	- 4 28.4	1.611	2.458	16.1	19.5
8 19	23 53.76	+ 3 18.7	0.862	1.793	18.3	20.0	8 19	23 57.38	- 5 18.2	1.554	2.475	12.3	19.3
8 29	23 48.62	+ 3 8.7	0.834	1.807	12.7	19.7	8 29	23 50.38	- 6 19.6	1.518	2.491	8.0	19.1
9 8	23 41.09	+ 2 37.1	0.826	1.823	6.6	19.5	9 8	23 41.75	- 7 26.0	1.507	2.507	3.6	18.8
9 18	23 32.60	+ 1 51.0	0.838	1.841	2.4	19.3	9 18	23 32.46	- 8 29.9	1.523	2.523	2.8	18.8
9 28	23 24.85	+ 1 0.9	0.872	1.861	7.2	19.7	9 28	23 23.66	- 9 23.7	1.566	2.539	6.9	19.1
10 8	23 19.29	+ 0 17.3	0.926	1.882	12.7	20.1	10 8	23 16.37	-10 1.8	1.634	2.554	11.0	19.4
10 18	23 16.74	- 0 12.4	1.000	1.904	17.5	20.4	10 18	23 11.27	-10 21.9	1.726	2.568	14.5	19.6
324480	2006 UN ₁₀₄	9 15.8 62°29		4°6/12.2 18			494299	2016 RC ₄₂	9 15.8 131°06		1°0/16.7 16		
8 9	0 1.95	-10 41.0	1.382	2.251	17.0	20.3	8 9	0 0.78	+ 2 2.2	1.830	2.651	15.5	21.4
8 19	23 57.76	-11 34.5	1.327	2.259	13.1	20.0	8 19	23 56.31	+ 1 48.4	1.755	2.657	12.2	21.2
8 29	23 50.85	-12 34.6	1.292	2.268	8.7	19.8	8 29	23 49.67	+ 1 19.8	1.702	2.664	8.3	21.0
9 8	23 42.00	-13 32.9	1.281	2.277	5.2	19.7	9 8	23 41.47	+ 0 39.5	1.674	2.670	4.0	20.7
9 18	23 32.35	-14 20.5	1.295	2.286	5.6	19.7	9 18	23 32.55	- 0 7.9	1.672	2.676	1.1	20.5
9 28	23 23.25	-14 50.0	1.334	2.295	9.3	19.9	9 28	23 23.93	- 0 56.4	1.698	2.682	5.2	20.8
10 8	23 15.88	-14 57.5	1.396	2.304	13.3	20.2	10 8	23 16.56	- 1 39.7	1.751	2.687	9.3	21.1
10 18	23 11.04	-14 42.7	1.479	2.313	16.9	20.5	10 18	23 11.15	- 2 13.2	1.829	2.692	12.9	21.3
111289	2001 XE ₅₀	9 15.8 224°37		1°3/17.0 18			17456	1990 SS ₇	9 15.8 282°43		1°8/13.9 18		
8 9	23 59.62	+ 2 9.9	2.300	3.108	13.1	19.7	8 9	23 56.94	- 5 15.8	2.080	2.923	13.1	18.4
8 19	23 55.05	+ 2 12.3	2.211	3.105	10.4	19.5	8 19	23 53.22	- 5 54.0	1.995	2.914	10.1	18.2
8 29	23 48.68	+ 2 3.4	2.144	3.101	7.2	19.3	8 29	23 47.59	- 6 41.6	1.932	2.905	6.6	17.9
9 8	23 40.98	+ 1 45.0	2.103	3.097	3.7	19.1	9 8	23 40.56	- 7 33.9	1.895	2.895	3.0	17.7
9 18	23 32.63	+ 1 20.0	2.089	3.093	1.3	18.9	9 18	23 32.82	- 8 25.5	1.886	2.886	2.4	17.6
9 28	23 24.42	+ 0 52.3	2.105	3.088	4.4	19.2	9 28	23 25.23	- 9 10.6	1.904	2.876	6.0	17.9
10 8	23 17.16	+ 0 26.4	2.149	3.084	7.9	19.4	10 8	23 18.64	- 9 44.2	1.949	2.867	9.6	18.1
10 18	23 11.47	+ 0 5.8	2.218	3.079	11.0	19.6	10 18	23 13.72	-10 3.3	2.018	2.858	12.8	18.3
332292	2006 TE ₁₁₀	9 15.8 329°12		3°9/18.9 15			358778	2008 DF ₅₈	9 15.8 118°89		6°1/ 7.9 18		
8 9	23 57.15	+ 8 19.1	1.387	2.210	19.5	21.1	8 9						

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V		
128341	Dalestanbridge			9 15.8	339°96	22°9/25.4	17	23706	1997 SY ₃₂			9 15.8	326°83	0°9/14.1	18
8 9	0 9.43	-44 11.5	0.940	1.798	24.0	18.7	8 9	23 51.01	- 5 57.3	4.045	4.873	7.6	19.2		
8 19	0 6.14	-46 59.4	0.923	1.794	23.1	18.6	8 19	23 47.71	- 6 17.5	3.957	4.869	5.7	19.1		
8 29	23 57.64	-49 10.1	0.920	1.791	23.0	18.6	8 29	23 43.49	- 6 41.6	3.895	4.864	3.7	18.9		
9 8	23 45.28	-50 24.6	0.931	1.788	23.7	18.6	9 8	23 38.62	- 7 7.4	3.860	4.860	1.7	18.8		
9 18	23 31.52	-50 31.5	0.955	1.786	25.0	18.7	9 18	23 33.46	- 7 32.7	3.855	4.855	1.3	18.7		
9 28	23 19.26	-49 30.0	0.992	1.784	26.7	18.8	9 28	23 28.38	- 7 55.1	3.880	4.851	3.3	18.9		
10 8	23 10.71	-47 29.6	1.040	1.782	28.4	19.0	10 8	23 23.77	- 8 12.6	3.933	4.847	5.3	19.0		
10 18	23 6.74	-44 44.0	1.097	1.782	30.0	19.2	10 18	23 19.96	- 8 23.5	4.014	4.843	7.2	19.2		
521648	2015 QJ ₁₈			9 15.8	7°00	1°5/13.9	18	356089	2009 DQ ₁₃₄			9 15.8	86°02	0°6/15.2	18
8 9	23 54.34	- 3 29.3	2.108	2.951	13.0	21.1	8 9	23 59.11	- 2 24.5	1.943	2.778	14.2	21.2		
8 19	23 51.12	- 4 24.5	2.032	2.951	9.9	20.9	8 19	23 54.91	- 2 46.6	1.869	2.782	11.0	21.0		
8 29	23 46.13	- 5 30.8	1.979	2.951	6.4	20.7	8 29	23 48.71	- 3 19.7	1.817	2.786	7.2	20.8		
9 8	23 39.88	- 6 43.1	1.951	2.952	2.8	20.5	9 8	23 41.07	- 3 59.7	1.790	2.790	3.1	20.5		
9 18	23 33.02	- 7 55.2	1.952	2.953	2.2	20.5	9 18	23 32.76	- 4 41.6	1.790	2.794	1.3	20.4		
9 28	23 26.37	- 9 0.8	1.981	2.953	5.7	20.7	9 28	23 24.73	- 5 20.0	1.819	2.798	5.4	20.7		
10 8	23 20.70	- 9 54.3	2.036	2.954	9.2	20.9	10 8	23 17.85	- 5 49.8	1.874	2.802	9.3	20.9		
10 18	23 16.60	-10 32.3	2.116	2.956	12.3	21.1	10 18	23 12.78	- 6 7.8	1.953	2.806	12.6	21.1		
449377	2013 GM ₉₆			9 15.8	95°01	0°9/17.0	18	139982	2001 SM ₂₆			9 15.8	351°36	1°5/14.7	18
8 9	23 55.47	+ 4 12.2	2.428	3.233	12.6	21.4	8 9	23 57.46	- 5 33.4	1.395	2.261	17.1	18.9		
8 19	23 51.65	+ 3 32.1	2.357	3.249	9.9	21.3	8 19	23 54.49	- 5 36.6	1.322	2.253	13.2	18.6		
8 29	23 46.29	+ 2 38.5	2.309	3.266	6.8	21.1	8 29	23 48.88	- 5 49.9	1.269	2.246	8.7	18.4		
9 8	23 39.90	+ 1 34.5	2.288	3.282	3.4	20.9	9 8	23 41.28	- 6 8.5	1.238	2.240	3.9	18.1		
9 18	23 33.05	+ 0 24.7	2.295	3.299	1.0	20.8	9 18	23 32.69	- 6 26.9	1.232	2.235	2.3	18.0		
9 28	23 26.46	- 0 45.6	2.331	3.315	4.0	21.0	9 28	23 24.40	- 6 38.7	1.251	2.232	7.1	18.3		
10 8	23 20.76	- 1 50.8	2.396	3.330	7.2	21.2	10 8	23 17.63	- 6 39.0	1.294	2.229	11.9	18.5		
10 18	23 16.46	- 2 46.7	2.488	3.346	10.1	21.5	10 18	23 13.25	- 6 25.1	1.358	2.229	16.0	18.8		
415795	2001 CE ₄₉			9 15.8	164°21	9°8/24.6	18	408128	2013 CW ₅₄			9 15.8	118°18	1°6/14.0	18
8 9	0 9.29	+23 33.8	2.042	2.720	18.4	21.8	8 9	0 1.26	- 7 7.5	2.529	3.358	11.5	21.2		
8 19	0 3.16	+24 56.6	1.955	2.727	16.3	21.6	8 19	23 55.97	- 7 27.3	2.461	3.373	8.8	21.0		
8 29	23 54.46	+25 57.4	1.886	2.732	14.0	21.5	8 29	23 49.10	- 7 52.1	2.418	3.387	5.7	20.8		
9 8	23 43.75	+26 31.3	1.839	2.736	11.7	21.3	9 8	23 41.15	- 8 18.4	2.402	3.401	2.6	20.6		
9 18	23 31.92	+26 35.6	1.815	2.740	10.1	21.2	9 18	23 32.76	- 8 42.3	2.415	3.415	2.1	20.6		
9 28	23 20.17	+26 11.1	1.818	2.743	9.9	21.2	9 28	23 24.67	- 9 0.3	2.458	3.428	5.0	20.8		
10 8	23 9.71	+25 23.4	1.846	2.746	11.1	21.3	10 8	23 17.55	- 9 9.6	2.530	3.441	8.0	21.1		
10 18	23 1.47	+24 20.7	1.898	2.747	13.1	21.5	10 18	23 11.92	- 9 8.7	2.626	3.453	10.6	21.3		
387225	2012 UP ₃₁			9 15.8	1°41	4°9/19.4	18	389316	2009 SJ ₁₁₉			9 15.8	250°40	0°2/16.2	18
8 9	23 59.35	+ 8 15.7	1.449	2.265	19.1	19.4	8 9	23 50.59	- 0 16.8	4.536	5.341	7.2	21.5		
8 19	23 55.91	+ 8 56.3	1.374	2.264	15.7	19.1	8 19	23 47.30	- 0 29.8	4.440	5.335	5.6	21.4		
8 29	23 49.82	+ 9 16.6	1.317	2.263	11.7	18.9	8 29	23 43.18	- 0 48.2	4.369	5.329	3.7	21.3		
9 8	23 41.69	+ 9 16.0	1.282	2.263	7.6	18.7	9 8	23 38.49	- 1 10.4	4.326	5.323	1.7	21.1		
9 18	23 32.53	+ 8 56.1	1.270	2.264	4.9	18.5	9 18	23 33.52	- 1 34.7	4.313	5.317	0.4	21.0		
9 28	23 23.61	+ 8 22.0	1.283	2.266	6.6	18.6	9 28	23 28.61	- 1 59.0	4.331	5.312	2.5	21.2		
10 8	23 16.19	+ 7 41.3	1.321	2.268	10.5	18.9	10 8	23 24.11	- 2 21.4	4.378	5.305	4.4	21.3		
10 18	23 11.17	+ 7 1.6	1.381	2.271	14.5	19.1	10 18	23 20.31	- 2 39.9	4.452	5.299	6.2	21.4		
291724	2006 JZ ₃₃			9 15.8	41°33	1°6/17.3	18	364809	2008 BZ ₁₇			9 15.8	275°82	4°9/9.9	18
8 9	23 56.63	+ 4 32.9	1.609	2.437	17.0	21.1	8 9	23 55.72	-11 59.8	2.017	2.877	12.8	20.7		
8 19	23 53.37	+ 4 10.9	1.541	2.445	13.5	20.9	8 19	23 52.47	-13 32.7	1.932	2.861	9.8	20.5		
8 29	23 47.86	+ 3 29.6	1.493	2.454	9.3	20.6	8 29	23 47.24	-15 13.2	1.872	2.844	6.8	20.2		
9 8	23 40.72	+ 2 32.4	1.468	2.463	4.8	20.4	9 8	23 40.49	-16 53.7	1.839	2.827	4.9	20.1		
9 18	23 32.85	+ 1 25.0	1.469	2.472	1.7	20.2	9 18	23 32.93	-18 25.6	1.832	2.810	5.9	20.1		
9 28	23 25.31	+ 0 15.1	1.496	2.482	5.4	20.5	9 28	23 25.46	-19 40.9	1.854	2.793	8.8	20.3		
10 8	23 19.10	- 0 49.1	1.550	2.492	9.7	20.8	10 8	23 19.00	-20 34.1	1.900	2.775	12.0	20.4		
10 18	23 14.96	- 1 41.6	1.626	2.502	13.5	21.0	10 18	23 14.27	-21 3.3	1.967	2.758	15.0	20.6		
22756	Manpreetkaur			9 15.8	348°81	0°4/16.1	18	206542	2003 UB ₁₉₈			9 15.8	255°47	3°2/12.7	18
8 9	23 55.99	- 0 2.3	1.190	2.055	19.5	18.9	8 9	23 59.92	- 9 14.1	1.931	2.781	13.7	20.2		
8 19	23 53.76	- 0 9.2	1.120	2.048	15.3	18.6	8 19	23 55.70	- 9 57.4	1.849	2.772	10.5	20.0		
8 29	23 48.62	- 0 34.7	1.068	2.042	10.4	18.4	8 29	23 49.34	-10 47.6	1.790	2.763	7.0	19.8		
9 8	23 41.23	- 1 15.1	1.036	2.037	4.8	18.0	9 8	23 41.41	-11 39.0	1.756	2.753	3.8	19.6		
9 18	23 32.68	- 2 3.8	1.028	2.032	1.2	17.8	9 18	23 32.68	-12 25.2	1.750	2.743	3.9	19.6		
9 28	23 24.43	- 2 51.6	1.043	2.029	7.0	18.1	9 28	23 24.14	-13 0.2	1.771	2.733	7.3	19.8		
10 8	23 17.87	- 3 30.0	1.081	2.027	12.5	18.4	10 8	23 16.74	-13 19.6	1.818	2.723	10.9	20.0		
10 18	23 13.98	- 3 52.8	1.140	2.027	17.2	18.7	10 18	23 11.24	-13 21.4	1.887	2.713	14.2	20.2		
337058	1997 GL ₁₀			9 15.8	244°43	1°7/14.1	18	14120	Espenak			9 15.8	286°35	3°3/18.7	18
8 9	0 0.64	- 5 24.5	2.157	2.992	13.0	21.4	8 9	23 57.30	+ 8 10.8	1.557	2.371	18.1	17.4		
8 19	23 56.08	- 5 57.8	2.062	2.976	10.1	21.2	8 19	23 54.25	+ 8 2.9	1.470	2.362	14.8	17.1		
8 29	23 49.54	- 6 40.1	1.990	2.960	6.6	21.0	8 29	23 48.71	+ 7 31.9	1.401	2.352	10.8	16.9		
9 8	23 41.48	- 7 27.1	1.944	2.944	3.0	20.7	9 8	23 41.24	+ 6 38.8	1.354	2.342	6.4	16.6		
9 18	23 32.61	- 8 13.7	1.927	2.927	2.3	20.6	9 18	23 32.71	+ 5 27.7	1.333	2.332	3.3	16.4		
9 28	23 23.84	- 8 54.2	1.938	2.909	5.9	20.8	9 28	23 24.31	+ 4 6.4	1.337	2.323	5.9	16.5		
10 8	23 16.04	- 9 23.8	1.976	2.891	9.6	21.0	10 8	23 17.22	+ 2 44.6	1.367	2.313	10.3	16.8		
10 18	23 9.95	- 9 39.7	2.039	2.873	12.9	21.2	10 18	23 12.35	+ 1 31.2	1.419	2.304	14.6	17.0		
304255	2006 RX ₆₀			9 15.8	300°13	0°9/14.9	18	98561	2000 WA ₁₄			9 15.8	173°50	3°9/12.2	18
8 9	23 55.63	- 1 36.5	1.830	2.673	14.6										

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
514203	2015 <i>MB</i> ₁₃₆		9 15.8 286°48	2°0/13.8	18		218477	2004 <i>SP</i> ₄₇		9 15.8 0°53	5°0/20.9	18	
8 9	23 56.14	- 4 7.4	1.851	2.699	14.3	21.3	8 9	23 57.17	+12 22.7	2.030	2.803	15.8	19.8
8 19	23 52.85	- 5 4.1	1.770	2.692	11.0	21.1	8 19	23 53.52	+12 50.5	1.944	2.802	13.2	19.7
8 29	23 47.49	- 6 13.2	1.711	2.685	7.1	20.8	8 29	23 47.90	+12 59.9	1.878	2.802	10.2	19.5
9 8	23 40.59	- 7 29.3	1.678	2.678	3.2	20.6	9 8	23 40.79	+12 50.3	1.835	2.802	7.2	19.3
9 18	23 32.92	- 8 45.0	1.672	2.671	2.7	20.5	9 18	23 32.92	+12 23.0	1.818	2.802	5.1	19.2
9 28	23 25.43	- 9 52.8	1.693	2.664	6.6	20.8	9 28	23 25.21	+11 41.8	1.827	2.803	5.8	19.2
10 8	23 19.06	-10 46.3	1.740	2.658	10.5	21.0	10 8	23 18.55	+10 52.6	1.863	2.804	8.4	19.4
10 18	23 14.51	-11 21.7	1.810	2.651	14.0	21.2	10 18	23 13.63	+10 1.7	1.923	2.805	11.5	19.6
260536	2005 <i>EG</i> ₁₅₀		9 15.8 192°64	3°2/13.2	18		454918	2015 <i>TW</i> ₁₃₉		9 15.8 326°31	6°0/ 8.9	18	
8 9	0 3.12	- 7 58.3	1.597	2.450	15.9	20.8	8 9	23 54.60	-15 53.3	1.895	2.765	13.1	20.6
8 19	23 58.52	- 8 41.2	1.525	2.450	12.2	20.6	8 19	23 51.71	-17 15.0	1.821	2.752	10.2	20.4
8 29	23 51.37	- 9 33.2	1.475	2.449	8.1	20.4	8 29	23 46.76	-18 39.8	1.771	2.740	7.5	20.2
9 8	23 42.35	-10 27.6	1.449	2.447	4.1	20.1	9 8	23 40.30	-19 59.8	1.746	2.728	6.0	20.1
9 18	23 32.43	-11 16.8	1.449	2.446	4.0	20.1	9 18	23 33.07	-21 6.7	1.748	2.716	7.0	20.1
9 28	23 22.85	-11 53.5	1.476	2.444	7.9	20.3	9 28	23 26.02	-21 53.7	1.775	2.705	9.7	20.2
10 8	23 14.74	-12 12.8	1.529	2.441	12.1	20.6	10 8	23 20.09	-22 17.0	1.825	2.695	12.7	20.4
10 18	23 8.96	-12 12.9	1.603	2.439	15.8	20.8	10 18	23 15.98	-22 15.8	1.896	2.685	15.5	20.6
521987	2015 <i>WU</i> ₂₀		9 15.8 359°26	6°6/22.8	17		311940	2007 <i>CW</i> ₄₅		9 15.8 278°48	3°7/19.6	18	
8 9	23 55.83	+16 49.8	1.994	2.746	16.7	20.7	8 9	23 58.45	+ 9 18.9	2.207	2.988	14.5	21.0
8 19	23 52.58	+17 26.6	1.908	2.744	14.3	20.5	8 19	23 54.36	+ 9 37.0	2.114	2.982	11.9	20.8
8 29	23 47.32	+17 42.3	1.841	2.743	11.6	20.3	8 29	23 48.39	+ 9 39.5	2.042	2.976	8.9	20.6
9 8	23 40.53	+17 35.2	1.795	2.743	8.8	20.2	9 8	23 41.00	+ 9 26.5	1.993	2.970	5.8	20.4
9 18	23 32.95	+17 5.8	1.774	2.743	6.9	20.0	9 18	23 32.87	+ 8 59.7	1.972	2.964	3.8	20.3
9 28	23 25.52	+16 17.6	1.778	2.743	7.0	20.1	9 28	23 24.84	+ 8 22.9	1.979	2.958	5.0	20.4
10 8	23 19.13	+15 16.8	1.808	2.745	8.9	20.2	10 8	23 17.76	+ 7 41.1	2.012	2.953	8.0	20.5
10 18	23 14.53	+14 10.9	1.862	2.746	11.7	20.4	10 18	23 12.31	+ 6 59.9	2.072	2.947	11.1	20.7
191484	2003 <i>TA</i> ₁		9 15.8 71°84	8°0/25.4	18		99842	2002 <i>NT</i> ₃₃		9 15.8 351°61	6°8/23.1	18	
8 9	23 59.83	+23 20.8	2.416	3.099	15.7	19.5	8 9	23 56.00	+17 38.9	2.090	2.833	16.3	18.6
8 19	23 55.36	+24 17.5	2.333	3.108	13.9	19.4	8 19	23 52.66	+18 17.9	2.001	2.829	14.0	18.5
8 29	23 49.00	+24 53.9	2.268	3.116	11.8	19.3	8 29	23 47.36	+18 36.3	1.930	2.826	11.5	18.3
9 8	23 41.24	+25 7.6	2.224	3.125	9.8	19.1	9 8	23 40.57	+18 32.4	1.881	2.823	8.9	18.1
9 18	23 32.76	+24 57.8	2.204	3.133	8.4	19.1	9 18	23 32.99	+18 6.4	1.857	2.821	7.0	18.0
9 28	23 24.41	+24 26.2	2.210	3.141	8.0	19.1	9 28	23 25.52	+17 21.2	1.858	2.820	7.0	18.0
10 8	23 17.04	+23 37.6	2.242	3.150	9.0	19.1	10 8	23 19.05	+16 22.8	1.885	2.819	8.8	18.1
10 18	23 11.31	+22 38.2	2.298	3.159	10.7	19.3	10 18	23 14.30	+15 18.1	1.936	2.818	11.4	18.3
51054	2000 <i>GD</i> ₁₃₉		9 15.8 282°51	7°0/ 8.5	18		311550	2006 <i>AR</i> ₅₃		9 15.8 247°49	2°1/17.4	17	
8 9	23 59.77	-19 59.9	1.901	2.763	13.4	19.4	8 9	0 1.17	+ 4 18.2	1.359	2.192	19.3	21.6
8 19	23 55.77	-21 12.8	1.838	2.759	10.7	19.2	8 19	23 07.54	+ 4 13.5	1.282	2.188	15.4	21.4
8 29	23 49.38	-22 24.2	1.798	2.756	8.2	19.0	8 29	23 51.04	+ 3 47.4	1.223	2.184	10.8	21.1
9 8	23 41.41	-23 25.7	1.782	2.752	7.1	19.0	9 8	23 42.34	+ 3 2.2	1.186	2.180	5.7	20.8
9 18	23 32.72	-24 9.9	1.792	2.748	8.0	19.0	9 18	23 32.48	+ 2 3.2	1.173	2.176	2.2	20.6
9 28	23 24.35	-24 31.3	1.828	2.745	10.4	19.2	9 28	23 22.86	+ 0 58.6	1.186	2.172	6.4	20.8
10 8	23 17.26	-24 28.1	1.888	2.741	13.1	19.3	10 8	23 14.85	- 0 1.9	1.224	2.168	11.5	21.1
10 18	23 12.16	-24 1.3	1.968	2.737	15.7	19.5	10 18	23 9.43	- 0 50.6	1.283	2.164	16.1	21.4
273458	2006 <i>QX</i> ₄₁		9 15.8 256°92	0°1/15.8	18		401681	2013 <i>HF</i> ₃		9 15.8 60°90	1°4/14.0	18	
8 9	0 3.69	- 1 5.0	1.884	2.708	15.0	21.4	8 9	23 54.64	- 3 16.6	2.186	3.026	12.7	20.7
8 19	23 58.88	- 1 15.3	1.781	2.686	11.9	21.1	8 19	23 51.29	- 4 14.2	2.113	3.030	9.7	20.5
8 29	23 51.67	- 1 37.8	1.699	2.664	8.0	20.8	8 29	23 46.24	- 5 22.6	2.062	3.034	6.3	20.3
9 8	23 42.57	- 2 9.8	1.643	2.642	3.7	20.5	9 8	23 39.99	- 6 36.8	2.038	3.038	2.8	20.0
9 18	23 32.35	- 2 46.9	1.614	2.618	1.0	20.3	9 18	23 33.17	- 7 50.7	2.041	3.042	2.1	20.0
9 28	23 22.12	- 3 23.5	1.613	2.594	5.8	20.6	9 28	23 26.57	- 8 58.1	2.074	3.046	5.5	20.2
10 8	23 13.00	- 3 53.7	1.640	2.569	10.2	20.8	10 8	23 20.92	- 9 53.7	2.133	3.050	8.9	20.5
10 18	23 5.88	- 4 13.2	1.691	2.544	14.2	21.0	10 18	23 16.78	-10 34.1	2.217	3.055	11.9	20.7
64879	2001 <i>YN</i> ₆₉		9 15.8 6°81	4°2/12.4	18		70021	1999 <i>AB</i>		9 15.8 282°51	9°0/26.7	18	
8 9	23 59.13	- 9 51.0	1.407	2.278	16.7	19.7	8 9	23 59.49	+26 44.5	2.519	3.173	15.8	19.2
8 19	23 55.70	-10 39.8	1.344	2.278	12.8	19.5	8 19	23 55.23	+27 49.3	2.422	3.167	14.2	19.0
8 29	23 49.61	-11 36.6	1.302	2.278	8.5	19.2	8 29	23 49.03	+28 34.1	2.341	3.161	12.4	18.9
9 8	23 41.60	-12 33.5	1.282	2.280	4.8	19.0	9 8	23 41.33	+28 55.6	2.281	3.155	10.7	18.8
9 18	23 32.70	-13 21.7	1.288	2.281	5.1	19.1	9 18	23 32.76	+28 51.8	2.244	3.149	9.4	18.7
9 28	23 24.21	-13 53.6	1.319	2.283	9.0	19.3	9 28	23 24.20	+28 23.6	2.231	3.143	9.0	18.6
10 8	23 17.31	-14 4.6	1.373	2.286	13.1	19.6	10 8	23 16.51	+27 34.8	2.244	3.137	9.7	18.7
10 18	23 12.83	-13 53.6	1.448	2.289	16.8	19.8	10 18	23 10.44	+26 31.7	2.281	3.131	11.2	18.8
158113	2001 <i>BX</i> ₆₉		9 15.8 215°12	2°9/11.6	18		212337	2005 <i>SD</i> ₂₇₃		9 15.8 44°47	0°2/15.5	18	
8 9	23 54.87	- 8 50.0	2.691	3.534	10.5	20.6	8 9	23 53.94	- 1 37.2	2.736	3.560	10.9	20.4
8 19	23 51.22	-10 5.5	2.608	3.528	8.0	20.4	8 19	23 50.35	- 2 1.0	2.664	3.571	8.3	20.3
8 29	23 46.09	-11 27.5	2.550	3.522	5.3	20.2	8 29	23 45.41	- 2 32.9	2.616	3.583	5.5	20.1
9 8	23 39.90	-12 50.9	2.521	3.515	3.1	20.0	9 8	23 39.56	- 3 10.1	2.595	3.594	2.4	19.9
9 18	23 33.18	-14 10.0	2.520	3.508	3.6	20.1	9 18	23 33.30	- 3 49.1	2.602	3.606	0.8	19.8
9 28	23 26.57	-15 19.3	2.550	3.501	6.0	20.2	9 28	23 27.24	- 4 26.0	2.639	3.618	3.9	20.1
10 8	23 20.72	-16 14.7	2.607	3.494	8.7	20.4	10 8	23 21.95	- 4 57.3	2.703	3.630	6.8	20.3
10 18	23 16.13	-16 53.7	2.688	3.486	11.2	20.6	10 18	23 17.87	- 5 20.3	2.794	3.643	9.4	20.5
276883	2004 <i>RH</i> ₂₇₇		9 15.8 22°69	4°8/19.6	18		444758						

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
191068	2002 <i>CL</i> ₁₄₉		9 15.8 226°90	0°8/14.1	16		186832	Mosser		9 15.8 44°95	0°5/15.5	18	
8 9	23 50.01	- 5 40.8	4.468	5.294	6.9	20.5	8 9	0 1.39	- 1 42.4	1.224	2.083	19.4	19.9
8 19	23 46.88	- 6 7.7	4.381	5.291	5.3	20.4	8 19	23 57.50	- 1 59.0	1.176	2.101	15.0	19.7
8 29	23 42.93	- 6 38.3	4.320	5.289	3.4	20.2	8 29	23 50.77	- 2 31.6	1.147	2.121	9.9	19.5
9 8	23 38.41	- 7 10.7	4.287	5.287	1.5	20.1	9 8	23 42.09	- 3 14.3	1.140	2.141	4.3	19.2
9 18	23 33.63	- 7 42.6	4.284	5.284	1.2	20.0	9 18	23 32.66	- 3 59.9	1.158	2.162	1.5	19.1
9 28	23 28.93	- 8 11.8	4.312	5.282	3.0	20.2	9 28	23 23.92	- 4 40.0	1.200	2.183	6.9	19.5
10 8	23 24.64	- 8 36.3	4.368	5.280	4.9	20.3	10 8	23 17.05	- 5 8.0	1.266	2.204	11.8	19.8
10 18	23 21.06	- 8 54.4	4.451	5.277	6.6	20.5	10 18	23 12.82	- 5 20.4	1.353	2.226	15.9	20.2
211760	2004 <i>BB</i> ₁₇		9 15.8 156°18	6°1/ 8.5	18		6541	Yuan		9 15.8 226°14	0°1/15.8	18	
8 9	0 1.38	-21 1.7	2.425	3.272	11.3	21.7	8 9	23 56.54	- 0 33.6	2.675	3.491	11.3	18.3
8 19	23 56.31	-22 8.9	2.367	3.279	9.0	21.6	8 19	23 52.51	- 0 58.7	2.582	3.484	8.8	18.2
8 29	23 49.46	-23 13.2	2.334	3.285	7.0	21.4	8 29	23 46.96	- 1 33.4	2.512	3.476	5.9	18.0
9 8	23 41.39	-24 8.2	2.327	3.291	6.1	21.4	9 8	23 40.32	- 2 14.9	2.469	3.468	2.6	17.7
9 18	23 32.80	-24 48.4	2.348	3.296	6.9	21.5	9 18	23 33.13	- 2 59.7	2.455	3.459	0.8	17.6
9 28	23 24.53	-25 9.8	2.396	3.301	8.8	21.6	9 28	23 26.05	- 3 43.6	2.471	3.451	4.1	17.8
10 8	23 17.33	-25 10.9	2.469	3.306	11.0	21.7	10 8	23 19.72	- 4 22.3	2.515	3.442	7.3	18.0
10 18	23 11.77	-24 52.6	2.564	3.310	13.0	21.9	10 18	23 14.68	- 4 52.6	2.585	3.433	10.1	18.2
160997	2002 <i>CO</i> ₂₅₄		9 15.8 348°56	4°3/19.4	18		82369	2001 <i>MF</i> ₁₂		9 15.8 41°56	2°0/17.4	18	
8 9	23 59.80	+ 8 20.3	1.869	2.664	16.2	19.8	8 9	0 1.36	+ 2 41.2	1.537	2.366	17.6	19.1
8 19	23 55.73	+ 8 58.5	1.783	2.660	13.3	19.6	8 19	23 57.03	+ 2 56.1	1.479	2.384	13.9	18.9
8 29	23 49.47	+ 9 20.6	1.718	2.657	10.0	19.3	8 29	23 50.28	+ 2 55.0	1.442	2.402	9.6	18.7
9 8	23 41.53	+ 9 26.2	1.676	2.654	6.5	19.1	9 8	23 41.85	+ 2 40.2	1.427	2.421	5.0	18.5
9 18	23 32.73	+ 9 16.5	1.659	2.651	4.3	19.0	9 18	23 32.74	+ 2 15.8	1.438	2.441	2.0	18.4
9 28	23 24.08	+ 8 54.9	1.669	2.649	5.7	19.1	9 28	23 24.11	+ 1 47.4	1.475	2.461	5.5	18.6
10 8	23 16.58	+ 8 26.8	1.706	2.648	9.0	19.3	10 8	23 17.03	+ 1 21.0	1.538	2.481	9.7	18.9
10 18	23 11.02	+ 7 58.0	1.767	2.647	12.4	19.5	10 18	23 12.19	+ 1 1.7	1.625	2.502	13.5	19.2
397523	2007 <i>TH</i> ₁₂₄		9 15.8 259°39	4°1/11.8	18		27422	Robheckman		9 15.8 45°49	5°1/11.5	18	
8 9	0 1.22	-12 31.8	2.035	2.886	13.1	21.8	8 9	0 0.62	-13 29.7	1.614	2.479	15.2	18.2
8 19	23 56.66	-13 14.9	1.951	2.872	10.1	21.6	8 19	23 56.37	-14 20.0	1.563	2.492	11.6	18.1
8 29	23 49.99	-14 2.0	1.889	2.859	6.9	21.4	8 29	23 49.79	-15 12.9	1.534	2.506	8.0	17.9
9 8	23 41.74	-14 47.2	1.853	2.845	4.4	21.2	9 8	23 41.61	-16 0.7	1.529	2.520	5.3	17.8
9 18	23 32.69	-15 24.4	1.844	2.830	4.8	21.2	9 18	23 32.81	-16 36.2	1.550	2.535	5.9	17.8
9 28	23 23.80	-15 47.8	1.863	2.816	7.8	21.4	9 28	23 24.53	-16 53.9	1.597	2.549	8.9	18.0
10 8	23 16.02	-15 54.3	1.908	2.801	11.1	21.5	10 8	23 17.76	-16 51.3	1.668	2.564	12.3	18.3
10 18	23 10.09	-15 42.6	1.975	2.786	14.2	21.7	10 18	23 13.16	-16 28.9	1.761	2.580	15.3	18.5
152616	1996 <i>HG</i> ₁₉		9 15.8 71°17	1°3/14.3	18		38174	1999 <i>JA</i> ₁₁₃		9 15.8 1°63	1°8/16.8	18	
8 9	23 57.24	- 4 19.2	2.217	3.054	12.6	20.0	8 9	23 55.80	- 0 16.5	1.028	1.904	21.0	17.2
8 19	23 53.14	- 4 55.8	2.155	3.070	9.6	19.8	8 19	23 53.95	+ 0 21.9	0.967	1.900	16.7	16.9
8 29	23 47.37	- 5 40.7	2.116	3.087	6.2	19.7	8 29	23 48.93	+ 0 43.9	0.924	1.898	11.5	16.6
9 8	23 40.46	- 6 29.6	2.103	3.103	2.7	19.5	9 8	23 41.47	+ 0 51.2	0.900	1.899	5.8	16.3
9 18	23 33.08	- 7 17.5	2.118	3.120	1.9	19.4	9 18	23 32.83	+ 0 47.8	0.897	1.901	1.9	16.1
9 28	23 26.01	- 7 59.4	2.163	3.136	5.2	19.7	9 28	23 24.62	+ 0 40.1	0.917	1.906	7.1	16.4
10 8	23 19.96	- 8 31.3	2.234	3.153	8.5	19.9	10 8	23 18.34	+ 0 35.0	0.958	1.912	12.6	16.8
10 18	23 15.46	- 8 50.8	2.329	3.169	11.3	20.1	10 18	23 14.99	+ 0 38.2	1.019	1.921	17.4	17.1
65225	2002 <i>EK</i> ₄₄		9 15.8 310°36	0°9/17.5	16	18	432311	2009 <i>TC</i> ₁₆		9 15.8 351°58	1°6/14.8	18	
8 9	23 49.36	+ 3 45.0	4.253	5.046	7.8	19.6	8 9	23 54.09	- 4 35.5	1.007	1.897	20.3	20.1
8 19	23 46.46	+ 3 25.4	4.156	5.040	6.2	19.5	8 19	23 52.76	- 4 41.4	0.943	1.886	15.8	19.8
8 29	23 42.69	+ 2 58.5	4.084	5.035	4.3	19.3	8 29	23 48.23	- 5 2.2	0.896	1.878	10.5	19.5
9 8	23 38.33	+ 2 25.5	4.038	5.030	2.3	19.2	9 8	23 41.21	- 5 32.3	0.869	1.871	4.6	19.2
9 18	23 33.67	+ 1 48.5	4.022	5.025	0.9	19.1	9 18	23 32.89	- 6 3.6	0.862	1.866	2.6	19.0
9 28	23 29.09	+ 1 9.9	4.037	5.020	2.5	19.2	9 28	23 24.94	- 6 27.1	0.878	1.863	8.4	19.4
10 8	23 24.92	+ 0 32.2	4.080	5.015	4.5	19.3	10 8	23 18.90	- 6 35.4	0.915	1.861	14.1	19.7
10 18	23 21.48	- 0 2.3	4.151	5.010	6.4	19.5	10 18	23 15.80	- 6 24.6	0.970	1.862	19.0	20.0
273727	2007 <i>EQ</i> ₉₂		9 15.8 274°82	0°4/15.4	17		63163	Jerusalem		9 15.8 228°33	11°5/31.9	18	
8 9	23 57.13	+ 0 31.4	1.602	2.444	16.4	21.2	8 9	0 3.42	-30 33.6	1.839	2.689	14.3	18.5
8 19	23 54.01	+ 0 15.5	1.518	2.434	12.8	21.0	8 19	23 59.01	-33 0.2	1.785	2.678	12.5	18.3
8 29	23 48.50	+ 1 21.0	1.454	2.424	8.6	20.7	8 29	23 51.90	-35 18.5	1.754	2.666	11.5	18.3
9 8	23 41.16	+ 2 40.4	1.415	2.415	3.8	20.4	9 8	23 42.73	-37 15.9	1.748	2.653	11.8	18.2
9 18	23 32.85	+ 4 6.1	1.401	2.405	1.4	20.2	9 18	23 32.47	-38 42.1	1.766	2.639	13.2	18.3
9 28	23 24.70	+ 5 29.0	1.414	2.395	6.4	20.5	9 28	23 22.42	-39 30.7	1.805	2.625	15.2	18.4
10 8	23 17.83	+ 6 40.3	1.453	2.385	11.1	20.8	10 8	23 13.86	-39 41.1	1.864	2.610	17.4	18.5
10 18	23 13.07	+ 7 33.9	1.514	2.375	15.2	21.0	10 18	23 7.71	-39 16.8	1.939	2.594	19.3	18.7
127336	2002 <i>JB</i> ₁₁₅		9 15.8 33°21	2°9/12.4	18		326127	2011 <i>YS</i> ₇₄		9 15.8 293°48	0°9/14.0	17	
8 9	23 54.60	- 7 38.5	2.099	2.952	12.6	19.4	8 9	23 49.14	- 4 53.1	4.279	5.106	7.2	20.3
8 19	23 51.34	- 8 44.6	2.030	2.956	9.6	19.2	8 19	23 46.30	- 5 31.1	4.186	5.098	5.5	20.2
8 29	23 46.32	- 9 58.5	1.986	2.960	6.3	19.0	8 29	23 42.61	- 6 13.8	4.119	5.089	3.5	20.0
9 8	23 40.05	-11 14.4	1.967	2.964	3.4	18.9	9 8	23 38.32	- 6 59.0	4.081	5.080	1.6	19.9
9 18	23 33.20	-12 25.5	1.976	2.969	3.6	18.9	9 18	23 33.74	- 7 44.0	4.072	5.072	1.2	19.9
9 28	23 26.60	-13 25.6	2.013	2.974	6.6	19.1	9 28	23 29.22	- 8 26.2	4.093	5.063	3.2	20.0
10 8	23 21.00	-14 10.1	2.076	2.979	9.9	19.3	10 8	23 25.11	- 9 3.2	4.143	5.054	5.1	20.1
10 18	23 16.98	-14 36.6	2.162	2.984	12.7	19.5	10 18	23 21.72	- 9 33.1	4.220	5.046	6.9	20.3
92128	1999 <i>XL</i> ₁₀₇		9 15.8 209°07	4°8/23.5	18		19611	1999 <i>NP</i> ₆₄		9 15.8 48°03	4°3/10.9		

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
514032	2014 <i>KD</i> ₉₃		9 15.8 113°46'	7.8/ 6.3	18		347537	1999 <i>YY</i> ₁₃		9 15.8 321°04'	16.6/ 4.9	18	
8 9	0 1.99	-26 54.8	2.355	3.199	11.7	21.7	8 9	0 1.94	+39 21.6	1.896	2.469	22.3	20.6
8 19	23 56.82	-28 12.5	2.315	3.215	9.7	21.6	8 19	23 58.51	+41 30.3	1.810	2.460	21.2	20.5
8 29	23 49.81	-29 22.7	2.299	3.230	8.2	21.5	8 29	23 52.08	+43 11.5	1.736	2.451	19.9	20.3
9 8	23 41.56	-30 18.2	2.309	3.245	7.8	21.5	9 8	23 43.06	+44 17.4	1.676	2.443	18.6	20.2
9 18	23 32.85	-30 53.8	2.344	3.259	8.6	21.6	9 18	23 32.36	+44 41.1	1.632	2.434	17.5	20.1
9 28	23 24.56	-31 6.1	2.405	3.273	10.2	21.7	9 28	23 21.44	+44 19.5	1.605	2.426	16.7	20.0
10 8	23 17.48	-30 55.1	2.490	3.287	12.1	21.9	10 8	23 11.87	+43 15.7	1.596	2.419	16.6	20.0
10 18	23 12.16	-30 22.8	2.594	3.300	13.8	22.1	10 18	23 4.96	+41 37.9	1.606	2.412	17.1	20.0
261866	2006 <i>FQ</i> ₁₃		9 15.8 33°55'	2.3/14.3	17		94154	2001 <i>AM</i> ₈		9 15.8 231°95'	4.6/21.5	18	
8 9	23 58.95	- 4 16.7	0.969	1.854	21.3	20.2	8 9	23 56.90	+14 32.1	2.520	3.265	13.8	19.7
8 19	23 56.23	- 4 52.7	0.928	1.869	16.3	20.0	8 19	23 53.00	+14 43.5	2.421	3.259	11.6	19.5
8 29	23 50.23	- 5 45.0	0.904	1.885	10.6	19.7	8 29	23 47.43	+14 37.8	2.343	3.252	9.1	19.3
9 8	23 41.93	- 6 44.9	0.900	1.902	4.7	19.5	9 8	23 40.61	+14 14.6	2.288	3.246	6.6	19.2
9 18	23 32.76	- 7 41.9	0.918	1.920	3.3	19.5	9 18	23 33.14	+13 35.2	2.260	3.239	4.8	19.0
9 28	23 24.38	- 8 25.6	0.959	1.939	8.7	19.8	9 28	23 25.74	+12 42.9	2.260	3.232	5.2	19.0
10 8	23 18.19	- 8 49.2	1.021	1.959	14.0	20.2	10 8	23 19.16	+11 43.0	2.288	3.224	7.3	19.2
10 18	23 14.97	- 8 50.5	1.102	1.980	18.4	20.5	10 18	23 14.00	+10 41.1	2.342	3.217	10.0	19.3
490764	2010 <i>TM</i> ₁₉₂		9 15.8 231°02'	1.8/12.2	18		117651	2005 <i>EC</i> ₁₅₃		9 15.8 57°92'	1.5/14.7	17	
8 9	23 51.80	-11 46.5	4.458	5.294	6.8	21.4	8 9	0 2.73	- 2 34.4	1.199	2.059	19.6	19.5
8 19	23 48.25	-12 9.8	4.377	5.292	5.1	21.3	8 19	23 58.49	- 3 16.2	1.158	2.085	15.0	19.2
8 29	23 43.85	-12 34.3	4.322	5.290	3.4	21.1	8 29	23 51.39	- 4 13.6	1.136	2.111	9.7	19.0
9 8	23 38.86	-12 58.0	4.295	5.288	2.0	21.0	9 8	23 42.38	- 5 19.0	1.136	2.137	4.2	18.8
9 18	23 33.61	-13 18.5	4.298	5.286	2.2	21.0	9 18	23 32.71	- 6 23.2	1.161	2.164	2.4	18.8
9 28	23 28.45	-13 33.9	4.331	5.284	3.7	21.1	9 28	23 23.83	- 7 16.9	1.211	2.190	7.5	19.2
10 8	23 23.74	-13 42.7	4.393	5.282	5.4	21.3	10 8	23 16.92	- 7 53.7	1.284	2.217	12.2	19.5
10 18	23 19.77	-13 43.7	4.480	5.280	7.0	21.4	10 18	23 12.68	- 8 10.7	1.379	2.243	16.2	19.8
361482	2007 <i>DP</i> ₈₆		9 15.8 126°33'	0.5/15.2	18		293951	2007 <i>TX</i> ₂₈		9 15.8 64°10'	5.5/11.6	18	
8 9	23 56.86	- 1 43.0	2.525	3.348	11.7	21.4	8 9	0 5.03	-16 1.4	1.704	2.561	14.9	20.0
8 19	23 52.73	- 2 18.3	2.451	3.358	9.0	21.3	8 19	23 59.63	-16 37.6	1.653	2.576	11.6	19.9
8 29	23 47.08	- 3 2.9	2.401	3.368	5.9	21.1	8 29	23 51.89	-17 13.3	1.623	2.591	8.1	19.7
9 8	23 40.37	- 3 53.3	2.378	3.377	2.6	20.9	9 8	23 42.56	-17 41.6	1.619	2.605	5.7	19.6
9 18	23 33.19	- 4 45.3	2.383	3.386	1.1	20.8	9 18	23 32.65	-17 56.1	1.640	2.620	6.2	19.6
9 28	23 26.23	- 5 34.0	2.418	3.395	4.4	21.1	9 28	23 23.32	-17 52.8	1.689	2.635	8.9	19.8
10 8	23 20.13	- 6 15.4	2.481	3.404	7.5	21.3	10 8	23 15.57	-17 30.3	1.762	2.650	12.1	20.1
10 18	23 15.41	- 6 46.5	2.569	3.412	10.3	21.5	10 18	23 10.05	-16 50.0	1.856	2.665	15.0	20.3
56017	1998 <i>VC</i> ₄		9 15.8 314°15'	0.4/15.5	18		76763	2000 <i>KD</i> ₁₈		9 15.8 160°19'	3.8/11.9	18	
8 9	23 56.22	- 0 36.4	1.348	2.206	18.0	19.2	8 9	23 59.31	-11 24.8	2.083	2.934	12.8	19.7
8 19	23 53.85	- 1 2.2	1.261	2.187	14.2	18.9	8 19	23 55.01	-12 16.9	2.013	2.936	9.8	19.5
8 29	23 48.74	- 1 46.7	1.194	2.168	9.6	18.6	8 29	23 48.80	-13 13.5	1.967	2.938	6.6	19.3
9 8	23 41.43	- 2 45.8	1.149	2.149	4.3	18.2	9 8	23 41.21	-14 8.6	1.946	2.939	4.1	19.2
9 18	23 32.85	- 3 52.5	1.127	2.132	1.5	18.0	9 18	23 33.01	-14 56.1	1.954	2.941	4.5	19.2
9 28	23 24.34	- 4 57.1	1.131	2.114	7.1	18.3	9 28	23 25.07	-15 30.5	1.989	2.942	7.3	19.4
10 8	23 17.27	- 5 50.3	1.158	2.098	12.5	18.6	10 8	23 18.24	-15 48.5	2.050	2.943	10.4	19.6
10 18	23 12.68	- 6 25.5	1.205	2.082	17.2	18.8	10 18	23 13.14	-15 49.0	2.134	2.944	13.3	19.8
71227	1999 <i>YO</i> ₁₅		9 15.8 280°58'	0.5/16.3	18		214526	2006 <i>KD</i> ₆		9 15.8 285°37'	0.9/15.2	17	
8 9	23 57.35	+ 1 35.9	1.821	2.650	15.3	19.7	8 9	0 0.52	- 1 54.9	1.354	2.208	18.2	21.3
8 19	23 53.87	+ 1 8.6	1.736	2.643	12.0	19.4	8 19	23 57.05	- 2 23.3	1.278	2.201	14.2	21.1
8 29	23 48.25	+ 0 25.5	1.672	2.637	8.1	19.2	8 29	23 50.77	- 3 8.4	1.222	2.195	9.4	20.8
9 8	23 41.04	- 0 30.0	1.632	2.630	3.8	18.9	9 8	23 42.29	- 4 5.0	1.188	2.189	4.1	20.4
9 18	23 32.99	- 1 32.7	1.619	2.623	0.9	18.7	9 18	23 32.69	- 5 5.7	1.179	2.182	1.9	20.3
9 28	23 25.11	- 2 35.5	1.633	2.616	5.4	19.0	9 28	23 23.34	- 6 1.1	1.195	2.176	7.3	20.6
10 8	23 18.36	- 3 31.6	1.674	2.610	9.6	19.2	10 8	23 15.58	- 6 43.4	1.235	2.170	12.4	20.9
10 18	23 13.50	- 4 15.5	1.738	2.603	13.4	19.5	10 18	23 10.38	- 7 7.6	1.297	2.164	16.8	21.1
136668	1995 <i>ST</i> ₉		9 15.8 24°33'	0.3/15.6	17		5254	<i>Ulysses</i>		9 15.8 295°52'	5.7/ 3.1	18	
8 9	23 55.93	- 0 19.2	1.027	1.903	21.0	20.2	8 9	23 53.26	-32 44.1	4.223	5.049	7.3	16.4
8 19	23 53.84	- 0 45.1	0.978	1.913	16.3	19.9	8 19	23 49.57	-33 37.5	4.165	5.040	6.4	16.3
8 29	23 48.67	- 1 32.1	0.947	1.924	10.8	19.7	8 29	23 44.83	-34 24.5	4.133	5.031	5.8	16.3
9 8	23 41.28	- 2 33.5	0.936	1.937	4.8	19.4	9 8	23 39.35	-35 1.8	4.126	5.022	5.8	16.2
9 18	23 32.95	- 3 39.8	0.947	1.951	1.5	19.2	9 18	23 33.54	-35 26.5	4.145	5.013	6.4	16.3
9 28	23 25.25	- 4 40.1	0.981	1.966	7.5	19.7	9 28	23 27.85	-35 36.5	4.189	5.003	7.3	16.3
10 8	23 19.51	- 5 25.2	1.037	1.983	12.9	20.0	10 8	23 22.73	-35 31.4	4.256	4.994	8.4	16.4
10 18	23 16.56	- 5 50.0	1.112	2.000	17.5	20.4	10 18	23 18.55	-35 11.6	4.344	4.986	9.4	16.5
444125	2004 <i>TF</i> ₂₁₂		9 15.8 315°74'	12.5/ 4.1	18		314563	2005 <i>YQ</i> ₁₆₉		9 15.8 173°04'	4.8/ 8.5	18	
8 9	0 13.94	-39 14.5	1.979	2.788	14.9	20.5	8 9	23 56.49	-18 10.1	2.906	3.755	9.6	21.1
8 19	0 6.91	-40 8.5	1.916	2.768	13.6	20.4	8 19	23 52.36	-19 26.0	2.841	3.757	7.6	21.0
8 29	23 56.94	-40 45.1	1.872	2.749	12.7	20.3	8 29	23 46.82	-20 41.6	2.802	3.759	5.7	20.9
9 8	23 44.87	-40 54.6	1.851	2.729	12.6	20.3	9 8	23 40.28	-21 51.6	2.791	3.761	4.8	20.8
9 18	23 31.96	-40 30.2	1.852	2.710	13.4	20.3	9 18	23 33.28	-22 50.9	2.808	3.763	5.5	20.9
9 28	23 19.70	-39 29.2	1.876	2.692	14.9	20.3	9 28	23 26.45	-23 35.3	2.853	3.764	7.3	21.0
10 8	23 9.39	-37 54.3	1.921	2.673	16.7	20.4	10 8	23 20.40	-24 2.7	2.924	3.764	9.4	21.1
10 18	23 1.86	-35 51.7	1.985	2.656	18.5	20.6	10 18	23 15.60	-24 12.6	3.018	3.764	11.2	21.3
119872	2002 <i>CC</i> ₁₆₈		9 15.8 284°49'	0.5/15.3	18		509100	2005					

EPHEMERIDES

9 15.8

9 15.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
367688	2010 RQ ₃₆		9 15.8 58°24	1.3°/14.7	17		275911	2001 TD ₁₄₉		9 15.8 336°37	3.4°/13.3	18 R	
8 9	23 57.98	- 0 27.4	1.237	2.097	19.2	20.7	8 9	23 54.22	- 6 30.2	1.176	2.060	18.4	19.5
8 19	23 55.06	- 1 31.8	1.179	2.107	14.8	20.5	8 19	23 52.59	- 7 13.7	1.103	2.044	14.2	19.2
8 29	23 49.33	- 2 56.9	1.141	2.116	9.7	20.2	8 29	23 48.03	- 8 11.9	1.048	2.029	9.4	18.9
9 8	23 41.58	- 4 35.0	1.125	2.126	4.1	20.0	9 8	23 41.17	- 9 17.1	1.014	2.015	4.6	18.6
9 18	23 32.93	- 6 15.1	1.133	2.136	2.3	19.9	9 18	23 33.06	-10 19.5	1.003	2.002	4.4	18.5
9 28	23 24.77	- 7 45.1	1.167	2.146	7.7	20.2	9 28	23 25.17	-11 8.3	1.016	1.991	9.3	18.7
10 8	23 18.33	- 8 55.7	1.224	2.157	12.7	20.6	10 8	23 18.92	-11 35.6	1.049	1.981	14.4	19.0
10 18	23 14.45	- 9 41.8	1.302	2.167	16.9	20.9	10 18	23 15.35	-11 37.9	1.102	1.972	19.0	19.3
445002	2008 GV ₁₁₃		9 15.8 134°26	0°0/15.8	18		216220	2006 UD ₉₉		9 15.8 273°39	0°4/16.2	18	
8 9	23 58.06	- 0 20.3	2.665	3.477	11.4	22.3	8 9	23 56.01	+ 1 46.0	2.044	2.868	14.0	20.8
8 19	23 53.56	- 0 48.1	2.590	3.490	8.8	22.2	8 19	23 52.58	+ 1 10.1	1.960	2.865	11.0	20.6
8 29	23 47.60	- 1 25.3	2.539	3.502	5.9	22.0	8 29	23 47.29	+ 0 19.4	1.898	2.862	7.4	20.4
9 8	23 40.63	- 2 8.9	2.515	3.513	2.6	21.8	9 8	23 40.61	- 0 42.5	1.861	2.859	3.5	20.2
9 18	23 33.21	- 2 55.1	2.520	3.524	0.7	21.7	9 18	23 33.25	- 1 50.5	1.851	2.856	0.8	20.0
9 28	23 26.01	- 3 39.7	2.555	3.535	4.0	21.9	9 28	23 26.06	- 2 58.1	1.870	2.852	4.9	20.2
10 8	23 19.64	- 4 18.7	2.619	3.545	7.1	22.2	10 8	23 19.87	- 3 58.9	1.916	2.849	8.7	20.5
10 18	23 14.61	- 4 49.2	2.709	3.555	9.7	22.4	10 18	23 15.33	- 4 48.0	1.986	2.846	12.1	20.7
496443	2014 OF ₂₁₄		9 15.8 74°45	4°4/10.3	18		261674	2005 YJ ₁₆₈		9 15.8 239°00	4°0/21.3	18	
8 9	23 55.68	-13 2.6	2.218	3.076	11.9	21.1	8 9	23 56.37	+14 14.6	2.865	3.604	12.4	21.3
8 19	23 52.12	-14 19.0	2.155	3.081	9.1	20.9	8 19	23 52.43	+14 14.1	2.755	3.590	10.4	21.1
8 29	23 46.84	-15 39.2	2.115	3.085	6.3	20.8	8 29	23 47.00	+13 57.8	2.666	3.576	8.1	21.0
9 8	23 40.34	-16 56.3	2.103	3.090	4.5	20.7	9 8	23 40.45	+13 25.7	2.601	3.561	5.8	20.8
9 18	23 33.29	-18 3.8	2.117	3.095	5.2	20.7	9 18	23 33.29	+12 39.1	2.564	3.545	4.1	20.7
9 28	23 26.48	-18 56.1	2.160	3.099	7.7	20.9	9 28	23 26.16	+11 41.4	2.556	3.530	4.5	20.7
10 8	23 20.66	-19 29.7	2.228	3.104	10.5	21.1	10 8	23 19.72	+10 37.2	2.577	3.513	6.6	20.8
10 18	23 16.39	-19 43.5	2.318	3.109	13.0	21.2	10 18	23 14.50	+ 9 31.6	2.625	3.497	9.1	20.9
402459	2006 BV ₉₇		9 15.8 231°11	1°2/17.2	18		35830	1999 JL ₅₄		9 15.8 179°75	1°7/14.4	18 R	
8 9	23 58.28	+ 2 27.7	2.491	3.296	12.3	21.6	8 9	0 3.42	- 4 14.1	1.635	2.478	16.1	19.4
8 19	23 53.98	+ 2 26.0	2.400	3.292	9.8	21.4	8 19	23 58.75	- 4 51.1	1.561	2.479	12.4	19.2
8 29	23 48.03	+ 2 13.6	2.332	3.288	6.8	21.2	8 29	23 51.59	- 5 40.3	1.508	2.480	8.2	18.9
9 8	23 40.89	+ 1 52.1	2.291	3.284	3.5	21.0	9 8	23 42.60	- 6 36.0	1.480	2.480	3.6	18.7
9 18	23 33.15	+ 1 24.3	2.277	3.280	1.2	20.8	9 18	23 32.72	- 7 31.4	1.479	2.480	2.5	18.6
9 28	23 25.54	+ 0 54.0	2.293	3.276	4.0	21.0	9 28	23 23.14	- 8 18.9	1.505	2.479	6.9	18.9
10 8	23 18.77	+ 0 25.3	2.337	3.272	7.3	21.2	10 8	23 15.00	- 8 52.7	1.556	2.478	11.2	19.1
10 18	23 13.43	+ 0 1.8	2.406	3.267	10.3	21.4	10 18	23 9.11	- 9 9.5	1.630	2.476	15.0	19.4
226691	2004 JA ₂₂		9 15.8 320°08	3°6/ 9.3	17		225486	2000 HQ ₂		9 15.8 316°13	3°6/13.0	18	
8 9	23 53.08	-19 39.4	3.979	4.823	7.3	19.7	8 9	23 58.35	- 7 53.2	1.369	2.239	17.1	20.1
8 19	23 49.39	-20 12.0	3.903	4.816	5.8	19.6	8 19	23 55.43	- 8 38.8	1.291	2.225	13.2	19.9
8 29	23 44.69	-20 42.9	3.853	4.809	4.3	19.5	8 29	23 49.74	- 9 35.9	1.234	2.212	8.8	19.6
9 8	23 39.31	-21 9.3	3.831	4.802	3.6	19.5	9 8	23 41.89	-10 37.2	1.199	2.199	4.6	19.3
9 18	23 33.60	-21 28.4	3.837	4.795	4.1	19.5	9 18	23 32.89	-11 33.7	1.189	2.186	4.6	19.3
9 28	23 28.01	-21 37.9	3.872	4.788	5.4	19.6	9 28	23 24.10	-12 16.3	1.204	2.174	8.9	19.5
10 8	23 22.96	-21 36.6	3.933	4.781	7.0	19.7	10 8	23 16.82	-12 38.5	1.241	2.162	13.6	19.7
10 18	23 18.79	-21 24.0	4.018	4.775	8.5	19.8	10 18	23 12.05	-12 37.7	1.299	2.151	17.8	20.0
128925	Conwell		9 15.8 65°19	0°6/16.5	18		252049	2000 SS ₁₀		9 15.8 318°67	0°9/16.4	18	
8 9	23 58.72	+ 1 46.6	2.034	2.853	14.3	20.0	8 9	23 59.61	- 0 11.4	1.186	2.046	19.8	20.4
8 19	23 54.40	+ 1 22.8	1.977	2.878	11.1	19.9	8 19	23 56.91	- 0 0.1	1.104	2.029	15.8	20.1
8 29	23 48.28	+ 0 46.0	1.942	2.904	7.4	19.7	8 29	23 51.05	- 0 5.6	1.041	2.012	10.9	19.8
9 8	23 40.95	- 0 0.3	1.933	2.930	3.5	19.5	9 8	23 42.61	- 0 25.7	0.997	1.997	5.2	19.4
9 18	23 33.16	- 0 51.3	1.951	2.955	0.9	19.3	9 18	23 32.68	- 0 55.3	0.977	1.981	1.3	19.1
9 28	23 25.75	- 1 41.4	1.997	2.980	4.6	19.7	9 28	23 22.83	- 1 26.9	0.980	1.967	7.2	19.5
10 8	23 19.49	- 2 25.5	2.071	3.006	8.1	19.9	10 8	23 14.68	- 1 52.1	1.006	1.953	13.0	19.7
10 18	23 14.93	- 2 59.8	2.170	3.031	11.2	20.2	10 18	23 9.41	- 2 4.6	1.052	1.941	18.1	20.0
355215	2006 YM ₅₂		9 15.8 90°27	6°9/ 6.9	18		476955	2008 XK ₃₆		9 15.9 289°25	2°5/13.7	18	
8 9	23 58.44	-22 5.1	2.286	3.142	11.7	20.7	8 9	24 0.00	- 6 32.1	1.742	2.593	14.9	22.1
8 19	23 54.15	-23 41.7	2.248	3.162	9.4	20.6	8 19	23 56.25	- 7 7.4	1.646	2.569	11.6	21.8
8 29	23 48.11	-25 14.0	2.234	3.181	7.5	20.5	8 29	23 50.09	- 7 53.3	1.570	2.544	7.7	21.6
9 8	23 40.88	-26 34.5	2.246	3.201	6.9	20.5	9 8	23 42.02	- 8 44.4	1.520	2.519	3.7	21.3
9 18	23 33.18	-27 36.9	2.285	3.220	7.8	20.6	9 18	23 32.86	- 9 34.2	1.496	2.495	3.2	21.2
9 28	23 25.85	-28 17.0	2.351	3.239	9.7	20.7	9 28	23 23.70	-10 15.4	1.499	2.470	7.3	21.4
10 8	23 19.62	-28 33.5	2.440	3.257	11.7	20.9	10 8	23 15.70	-10 42.1	1.527	2.445	11.7	21.6
10 18	23 15.03	-28 27.7	2.549	3.276	13.6	21.1	10 18	23 9.77	-10 50.8	1.577	2.420	15.6	21.8
156620	2002 GW ₁₄₅		9 15.8 13°13	4°7/10.3	18		74344	1998 VD ₃₄		9 15.9 264°87	4°2/20.2	18	
8 9	23 56.19	-13 45.2	2.129	2.989	12.2	19.7	8 9	23 57.12	+11 29.4	2.007	2.787	15.8	19.6
8 19	23 52.62	-14 55.9	2.063	2.989	9.4	19.5	8 19	23 53.62	+11 30.6	1.913	2.779	13.1	19.4
8 29	23 47.23	-16 9.8	2.020	2.990	6.6	19.3	8 29	23 48.09	+11 11.9	1.839	2.771	9.9	19.2
9 8	23 40.55	-17 20.2	2.004	2.991	4.8	19.2	9 8	23 41.03	+10 33.4	1.788	2.763	6.6	19.0
9 18	23 33.26	-18 20.6	2.015	2.991	5.5	19.2	9 18	23 33.16	+ 9 37.5	1.763	2.755	4.3	18.8
9 28	23 26.21	-19 5.1	2.053	2.992	8.0	19.4	9 28	23 25.38	+ 8 29.4	1.766	2.747	5.3	18.9
10 8	23 20.20	-19 30.5	2.116	2.993	10.9	19.6	10 8	23 18.62	+ 7 16.3	1.795	2.738	8.5	19.0
10 18	23 15.82	-19 35.9	2.201	2.995	13.5	19.8	10 18	23 13.62	+ 6 5.4	1.849	2.730	11.9	19.2
249400	2009 BZ ₁₈₇		9 15.8 63°49	7°3/ 9.2	18		322206	2011 AP ₃		9 15.9 248°26	3°6/11.6	18	
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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
512468	2016 <i>QP</i> ₅₃		9 15.9 80°42'	2°7/18.3	17		54533	2000 <i>QM</i> ₃₈		9 15.9 323°62'	0°2/15.6	18	
8 9	0 1.59	+ 6 49.2	1.615	2.425	17.7	21.6	8 9	23 55.06	- 1 19.1	2.466	3.293	11.8	19.3
8 19	23 57.15	+ 6 40.1	1.555	2.446	14.2	21.4	8 19	23 51.53	- 1 42.5	2.380	3.287	9.2	19.1
8 29	23 50.38	+ 6 10.8	1.515	2.467	10.1	21.2	8 29	23 46.44	- 2 15.6	2.316	3.282	6.1	18.9
9 8	23 41.99	+ 5 23.9	1.498	2.487	5.7	21.0	9 8	23 40.23	- 2 55.4	2.278	3.277	2.7	18.7
9 18	23 32.93	+ 4 24.4	1.507	2.508	2.7	20.9	9 18	23 33.45	- 3 38.0	2.269	3.273	0.9	18.5
9 28	23 24.34	+ 3 19.5	1.543	2.528	5.3	21.1	9 28	23 26.80	- 4 19.0	2.288	3.268	4.4	18.8
10 8	23 17.22	+ 2 17.2	1.606	2.548	9.4	21.4	10 8	23 20.97	- 4 54.0	2.335	3.264	7.7	19.0
10 18	23 12.27	+ 1 24.0	1.692	2.568	13.1	21.7	10 18	23 16.50	- 5 19.8	2.407	3.259	10.6	19.1
511450	2014 <i>JN</i> ₅₁		9 15.9 163°60'	2°9/12.6	18		224282	2005 <i>TH</i> ₆₉		9 15.9 61°85'	1°9/14.4	17	
8 9	23 59.25	- 9 6.4	2.205	3.050	12.4	22.0	8 9	0 2.26	- 5 1.2	1.449	2.303	17.2	20.8
8 19	23 54.88	- 9 55.0	2.133	3.053	9.5	21.8	8 19	23 58.00	- 5 28.2	1.388	2.313	13.2	20.6
8 29	23 48.69	-10 49.4	2.084	3.055	6.3	21.6	8 29	23 51.13	- 6 6.4	1.349	2.323	8.6	20.4
9 8	23 41.21	-11 44.3	2.062	3.058	3.4	21.4	9 8	23 42.40	- 6 50.0	1.332	2.333	3.9	20.1
9 18	23 33.14	-12 34.1	2.068	3.060	3.6	21.4	9 18	23 32.88	- 7 32.1	1.342	2.343	2.6	20.1
9 28	23 25.31	-13 13.6	2.102	3.062	6.5	21.6	9 28	23 23.83	- 8 5.4	1.377	2.354	7.1	20.4
10 8	23 18.52	-13 19.0	2.163	3.064	9.6	21.8	10 8	23 16.41	- 8 24.8	1.437	2.364	11.6	20.7
10 18	23 13.35	-13 48.5	2.247	3.065	12.5	22.0	10 18	23 11.40	- 8 27.6	1.519	2.375	15.4	20.9
59374	1999 <i>EO</i> ₁₂		9 15.9 49°13'	2°9/12.9	18		100194	1994 <i>CK</i> ₁₁		9 15.9 322°75'	1°0/16.6	18	
8 9	23 56.48	- 6 19.0	1.699	2.557	14.9	18.4	8 9	0 0.04	- 0 41.0	1.788	2.621	15.3	18.8
8 19	23 53.11	- 7 27.7	1.646	2.574	11.3	18.2	8 19	23 56.32	- 0 19.2	1.681	2.590	12.2	18.5
8 29	23 47.65	- 8 46.1	1.616	2.591	7.3	18.0	8 29	23 50.20	- 0 7.5	1.594	2.559	8.5	18.2
9 8	23 40.75	-10 6.9	1.610	2.609	3.7	17.9	9 8	23 42.14	- 0 4.3	1.532	2.529	4.2	17.9
9 18	23 33.28	-11 22.1	1.631	2.627	3.7	17.9	9 18	23 32.89	- 0 7.2	1.496	2.500	1.2	17.6
9 28	23 26.22	-12 24.3	1.679	2.645	7.2	18.2	9 28	23 23.54	- 0 12.0	1.486	2.471	5.6	17.9
10 8	23 20.45	-13 8.3	1.752	2.664	10.9	18.4	10 8	23 15.24	- 0 14.4	1.503	2.443	10.2	18.1
10 18	23 16.59	-13 32.0	1.848	2.682	14.0	18.7	10 18	23 8.94	- 0 10.2	1.543	2.415	14.3	18.3
385670	2005 <i>SD</i> ₁₄₅		9 15.9 297°24'	1°3/14.7	18		24482	2000 <i>XV</i> ₄₉		9 15.9 197°02'	5°8/ 8.4	18	
8 9	23 57.73	- 2 24.9	1.505	2.359	16.7	21.7	8 9	0 0.49	-19 0.6	2.437	3.286	11.3	19.4
8 19	23 54.85	- 3 3.2	1.411	2.335	13.1	21.5	8 19	23 55.79	-20 21.4	2.368	3.283	8.9	19.3
8 29	23 49.36	- 3 58.2	1.338	2.312	8.7	21.1	8 29	23 49.30	-21 41.9	2.323	3.279	6.8	19.1
9 8	23 41.77	- 5 5.1	1.288	2.288	3.8	20.8	9 8	23 41.51	-22 55.3	2.306	3.274	5.8	19.1
9 18	23 32.95	- 6 16.5	1.262	2.265	2.2	20.6	9 18	23 33.11	-23 55.2	2.316	3.269	6.7	19.1
9 28	23 24.12	- 7 23.3	1.263	2.242	7.3	20.9	9 28	23 24.89	-24 36.7	2.354	3.263	8.7	19.2
10 8	23 16.58	- 8 16.6	1.288	2.219	12.3	21.1	10 8	23 17.66	-24 57.2	2.417	3.256	11.1	19.4
10 18	23 11.32	- 8 50.8	1.334	2.196	16.8	21.3	10 18	23 12.01	-24 56.8	2.502	3.249	13.3	19.5
161347	2003 <i>SP</i> ₉₄		9 15.9 0°26'	4°1/20.0	18		443641	2014 <i>OH</i> ₂₀₂		9 15.9 115°12'	4°3/10.5	18	
8 9	23 47.60	+12 3.8	1.225	2.057	21.0	18.7	8 9	23 56.24	-13 22.1	2.297	3.153	11.6	20.8
8 19	23 47.22	+11 30.5	1.154	2.053	17.3	18.5	8 19	23 52.54	-14 32.5	2.231	3.155	8.9	20.6
8 29	23 44.30	+10 22.4	1.099	2.051	12.9	18.2	8 29	23 47.13	-15 46.2	2.189	3.158	6.2	20.5
9 8	23 39.45	+ 8 41.4	1.065	2.051	8.0	18.0	9 8	23 40.53	-16 56.9	2.173	3.161	4.4	20.4
9 18	23 33.62	+ 6 35.0	1.053	2.052	4.3	17.8	9 18	23 33.38	-17 58.3	2.186	3.163	5.1	20.4
9 28	23 28.07	+ 4 16.0	1.065	2.054	6.2	17.9	9 28	23 26.46	-18 45.3	2.226	3.165	7.5	20.6
10 8	23 23.98	+ 2 0.2	1.101	2.058	10.9	18.2	10 8	23 20.48	-19 14.5	2.291	3.168	10.2	20.8
10 18	23 22.21	+ 0 0.6	1.159	2.064	15.5	18.4	10 18	23 16.03	-19 24.8	2.380	3.170	12.7	20.9
227392	2005 <i>UP</i> ₃₄₂		9 15.9 205°13'	0°9/15.1	18		464625	1997 <i>TJ</i> ₂₇		9 15.9 34°94'	3°3/18.5	17	
8 9	0 2.82	- 3 23.3	1.793	2.628	15.2	20.9	8 9	23 57.05	+ 7 35.2	1.119	1.962	21.9	21.2
8 19	23 58.12	- 3 40.4	1.713	2.626	11.8	20.7	8 19	23 54.66	+ 7 26.2	1.062	1.971	17.7	20.9
8 29	23 51.11	- 4 8.3	1.654	2.624	7.8	20.4	8 29	23 49.28	+ 6 48.4	1.021	1.981	12.6	20.7
9 8	23 42.39	- 4 42.9	1.621	2.621	3.4	20.2	9 8	23 41.68	+ 5 44.7	1.000	1.992	7.2	20.4
9 18	23 32.83	- 5 19.0	1.615	2.618	1.6	20.0	9 18	23 33.08	+ 4 22.1	1.002	2.003	3.3	20.2
9 28	23 23.51	- 5 50.8	1.636	2.615	6.0	20.3	9 28	23 24.97	+ 2 52.0	1.027	2.015	6.6	20.5
10 8	23 15.47	- 6 13.1	1.684	2.611	10.2	20.6	10 8	23 18.73	+ 1 26.9	1.076	2.028	11.7	20.8
10 18	23 9.49	- 6 22.8	1.756	2.607	13.9	20.8	10 18	23 15.23	+ 0 16.6	1.145	2.041	16.4	21.1
174610	2003 <i>SB</i> ₃₆		9 15.9 322°42'	5°9/11.9	18		193557	2001 <i>AS</i> ₃		9 15.9 189°30'	4°3/10.9	18	
8 9	0 1.76	-12 55.0	1.218	2.097	18.2	19.6	8 9	23 58.46	-11 9.5	2.006	2.861	13.1	20.4
8 19	23 58.42	-13 39.1	1.148	2.085	14.2	19.3	8 19	23 54.53	-12 29.9	1.935	2.860	10.0	20.2
8 29	23 51.90	-14 29.0	1.098	2.074	9.8	19.0	8 29	23 48.61	-13 56.8	1.888	2.859	6.8	20.0
9 8	23 42.92	-15 15.5	1.069	2.063	6.3	18.8	9 8	23 41.25	-15 22.7	1.867	2.858	4.5	19.8
9 18	23 32.67	-15 48.4	1.064	2.053	6.9	18.8	9 18	23 33.20	-16 39.8	1.874	2.857	5.2	19.9
9 28	23 22.77	-15 59.5	1.082	2.044	10.9	19.0	9 28	23 25.37	-17 41.3	1.909	2.855	8.1	20.0
10 8	23 14.71	-15 44.7	1.122	2.035	15.5	19.2	10 8	23 18.65	-18 22.7	1.969	2.853	11.3	20.2
10 18	23 9.55	-15 4.5	1.181	2.027	19.6	19.5	10 18	23 13.70	-18 42.5	2.051	2.850	14.1	20.4
289620	2005 <i>GK</i> ₃₈		9 15.9 108°12'	2°0/17.7	17		67341	2000 <i>JR</i> ₂₁		9 15.9 219°10'	1°8/17.8	18	
8 9	0 3.53	+ 5 18.0	1.693	2.502	17.1	21.4	8 9	23 58.28	+ 4 49.0	2.075	2.882	14.4	19.7
8 19	23 58.56	+ 5 1.9	1.630	2.522	13.6	21.3	8 19	23 54.34	+ 4 38.8	1.989	2.879	11.5	19.5
8 29	23 51.29	+ 4 27.2	1.587	2.541	9.5	21.1	8 29	23 48.49	+ 4 13.4	1.923	2.877	8.1	19.3
9 8	23 42.40	+ 3 37.0	1.568	2.560	5.0	20.8	9 8	23 41.21	+ 3 34.7	1.883	2.874	4.4	19.1
9 18	23 32.85	+ 2 36.5	1.576	2.579	2.0	20.7	9 18	23 33.21	+ 2 46.5	1.870	2.872	1.8	18.9
9 28	23 23.74	+ 1 32.7	1.612	2.596	5.2	20.9	9 28	23 25.37	+ 1 53.9	1.884	2.869	4.6	19.1
10 8	23 16.08	+ 0 33.2	1.675	2.614	9.4	21.2	10 8	23 18.55	+ 1 2.9	1.927	2.866	8.3	19.3
10 18	23 10.57	- 0 16.3	1.762	2.630	13.0	21.5	10 18	23 13.41	+ 0 18.8	1.994	2.863	11.7	19.5
479856	2014 <i>GD</i> ₂₉		9 15.9 73°77'	0°1/16.0	18		447670	200					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
34529	2000 <i>SD</i> ₂₁₂		9 15.9 104°98	1°3/14.4	18 R		447369	2006 <i>AT</i> ₄₀		9 15.9 199°87	0°8/14.8	18	
8 9	23 56.56	- 0 5.8	1.745	2.585	15.4	17.7	8 9	23 56.61	- 3 14.7	2.743	3.567	10.8	22.2
8 19	23 53.25	- 1 28.5	1.676	2.593	11.8	17.5	8 19	23 52.55	- 3 48.9	2.656	3.564	8.3	22.1
8 29	23 47.84	- 3 8.5	1.629	2.600	7.7	17.3	8 29	23 47.05	- 4 31.0	2.593	3.561	5.5	21.9
9 8	23 40.92	- 4 59.0	1.607	2.608	3.3	17.0	9 8	23 40.51	- 5 17.9	2.558	3.558	2.4	21.7
9 18	23 33.30	- 6 51.2	1.614	2.616	2.1	17.0	9 18	23 33.46	- 6 5.7	2.551	3.554	1.4	21.6
9 28	23 25.97	- 8 35.2	1.648	2.623	6.4	17.3	9 28	23 26.54	- 6 50.0	2.575	3.550	4.4	21.8
10 8	23 19.86	-10 2.8	1.709	2.630	10.4	17.5	10 8	23 20.37	- 7 27.0	2.626	3.545	7.4	22.0
10 18	23 15.65	-11 9.3	1.793	2.637	14.0	17.8	10 18	23 15.46	- 7 53.9	2.704	3.541	10.0	22.2
112832	2002 <i>QX</i> ₁₄		9 15.9 95°24	5°5/20.8	17		220651	2004 <i>RK</i> ₁₀₁		9 15.9 336°41	2°1/17.7	18	
8 9	0 6.68	+12 57.2	1.683	2.451	18.8	20.1	8 9	0 0.76	+ 3 0.6	1.991	2.803	14.8	19.7
8 19	0 1.05	+13 24.2	1.623	2.478	15.5	20.0	8 19	23 56.38	+ 3 24.2	1.904	2.797	11.8	19.4
8 29	23 52.97	+13 28.4	1.581	2.504	11.9	19.8	8 29	23 49.92	+ 3 35.5	1.838	2.792	8.3	19.2
9 8	23 43.19	+13 9.4	1.562	2.529	8.2	19.7	9 8	23 41.90	+ 3 35.8	1.796	2.788	4.6	19.0
9 18	23 32.72	+12 29.6	1.569	2.554	5.7	19.6	9 18	23 33.07	+ 3 27.2	1.782	2.783	2.1	18.8
9 28	23 22.75	+11 34.7	1.603	2.578	6.5	19.7	9 28	23 24.39	+ 3 13.2	1.795	2.779	4.9	19.0
10 8	23 14.35	+10 32.8	1.663	2.602	9.4	19.9	10 8	23 16.80	+ 2 58.5	1.835	2.775	8.6	19.2
10 18	23 8.25	+ 9 31.8	1.748	2.625	12.7	20.2	10 18	23 11.03	+ 2 47.2	1.901	2.772	12.1	19.4
322584	2012 <i>BV</i>		9 15.9 317°50	3°1/21.1	18		15896	Birkhoff		9 15.9 78°38	0°8/15.2	18	
8 9	23 52.90	+12 24.2	3.876	4.616	9.4	20.0	8 9	0 1.14	- 1 12.6	1.510	2.353	17.2	19.3
8 19	23 49.37	+12 40.2	3.768	4.605	7.8	19.9	8 19	23 56.97	- 1 52.6	1.453	2.371	13.2	19.1
8 29	23 44.80	+12 46.1	3.683	4.594	6.1	19.7	8 29	23 50.36	- 2 47.6	1.417	2.388	8.7	18.8
9 8	23 39.45	+12 42.0	3.623	4.582	4.3	19.6	9 8	23 42.05	- 3 52.0	1.405	2.405	3.8	18.6
9 18	23 33.71	+12 28.6	3.591	4.571	3.2	19.5	9 18	23 33.06	- 4 58.1	1.419	2.422	1.6	18.5
9 28	23 28.00	+12 7.8	3.589	4.560	3.5	19.5	9 28	23 24.55	- 5 58.0	1.459	2.439	6.4	18.8
10 8	23 22.77	+11 42.1	3.615	4.549	5.0	19.6	10 8	23 17.59	- 6 44.8	1.525	2.456	10.8	19.1
10 18	23 18.38	+11 14.2	3.669	4.539	6.8	19.7	10 18	23 12.88	- 7 14.7	1.614	2.473	14.5	19.4
465022	2006 <i>JY</i> ₃₈		9 15.9 37°66	5°9/12.6	17		265426	2004 <i>UB</i> ₁		9 15.9 316°53	3°7/19.5	18	
8 9	0 4.38	-12 35.3	0.973	1.862	20.9	20.6	8 9	23 58.21	+ 8 44.7	2.134	2.920	14.7	20.0
8 19	0 0.40	-13 13.7	0.938	1.880	16.0	20.4	8 19	23 54.34	+ 9 6.2	2.041	2.913	12.1	19.8
8 29	23 52.98	-13 56.0	0.921	1.900	10.8	20.2	8 29	23 48.54	+ 9 12.3	1.968	2.905	9.0	19.6
9 8	23 43.23	-14 31.9	0.925	1.920	6.6	20.0	9 8	23 41.28	+ 9 3.0	1.919	2.897	5.9	19.4
9 18	23 32.75	-14 51.6	0.950	1.942	6.8	20.1	9 18	23 33.24	+ 8 39.9	1.897	2.890	3.7	19.2
9 28	23 23.28	-14 48.8	0.998	1.964	10.9	20.4	9 28	23 25.29	+ 8 6.7	1.902	2.883	5.0	19.3
10 8	23 16.23	-14 22.0	1.067	1.987	15.3	20.8	10 8	23 18.30	+ 7 28.6	1.935	2.876	8.1	19.5
10 18	23 12.34	-13 33.7	1.154	2.011	19.2	21.1	10 18	23 12.97	+ 6 51.0	1.992	2.870	11.3	19.7
322694	1999 <i>XA</i> ₈		9 15.9 268°74	0°1/15.8	17		408064	2012 <i>GZ</i> ₉		9 15.9 214°75	2°1/18.9	18	
8 9	0 1.02	- 2 10.1	2.470	3.287	12.1	21.1	8 9	23 54.63	+ 8 30.9	2.746	3.525	12.0	21.3
8 19	23 56.24	- 2 11.7	2.366	3.268	9.5	20.9	8 19	23 51.09	+ 8 1.2	2.649	3.520	9.7	21.1
8 29	23 49.68	- 2 21.3	2.285	3.249	6.4	20.6	8 29	23 46.12	+ 7 16.6	2.574	3.515	7.0	20.9
9 8	23 41.75	- 2 36.7	2.231	3.230	2.9	20.4	9 8	23 40.11	+ 6 18.8	2.525	3.509	4.2	20.7
9 18	23 33.09	- 2 54.9	2.206	3.210	0.8	20.2	9 18	23 33.57	+ 5 11.0	2.505	3.504	2.1	20.6
9 28	23 24.46	- 3 12.2	2.210	3.190	4.5	20.4	9 28	23 27.13	+ 3 57.9	2.514	3.498	3.7	20.7
10 8	23 16.66	- 3 25.1	2.242	3.170	8.0	20.6	10 8	23 21.40	+ 2 44.8	2.552	3.492	6.6	20.8
10 18	23 10.33	- 3 30.6	2.301	3.149	11.1	20.8	10 18	23 16.91	+ 1 36.6	2.618	3.485	9.3	21.0
260386	2004 <i>VM</i> ₆₁		9 15.9 336°21	10°7/ 3.6	18		378240	2007 <i>CJ</i> ₇		9 15.9 227°63	1°1/14.8	18	
8 9	23 55.20	-27 8.8	1.636	2.510	14.6	19.5	8 9	0 1.23	- 2 50.2	1.862	2.697	14.8	22.3
8 19	23 52.78	-28 56.6	1.576	2.493	12.4	19.3	8 19	23 56.92	- 3 26.3	1.774	2.688	11.5	22.1
8 29	23 47.85	-30 37.7	1.538	2.476	11.0	19.2	8 29	23 50.37	- 4 14.9	1.709	2.679	7.6	21.8
9 8	23 41.04	-32 1.0	1.522	2.460	10.9	19.1	9 8	23 42.13	- 5 11.5	1.669	2.669	3.3	21.6
9 18	23 33.28	-32 56.7	1.529	2.445	12.3	19.2	9 18	23 33.01	- 6 10.1	1.656	2.658	1.9	21.4
9 28	23 25.79	-33 18.4	1.558	2.431	14.5	19.3	9 28	23 24.03	- 7 3.8	1.671	2.648	6.1	21.7
10 8	23 19.72	-33 4.6	1.606	2.418	17.0	19.4	10 8	23 16.21	- 7 46.5	1.713	2.636	10.3	21.9
10 18	23 15.90	-32 18.2	1.671	2.406	19.3	19.6	10 18	23 10.34	- 8 14.2	1.778	2.625	14.0	22.1
36684	2000 <i>RJ</i> ₂		9 15.9 30°61	0°7/16.4	18		335042	2004 <i>RB</i> ₆₂		9 15.9 326°88	0°1/15.9	18	
8 9	23 56.62	+ 1 57.0	1.225	2.081	19.6	18.7	8 9	23 55.66	+ 0 31.8	1.427	2.279	17.5	20.5
8 19	23 53.98	+ 1 32.7	1.172	2.094	15.3	18.5	8 19	23 53.23	+ 0 3.0	1.346	2.267	13.8	20.2
8 29	23 48.63	+ 0 47.6	1.138	2.109	10.3	18.3	8 29	23 48.24	- 0 44.8	1.284	2.256	9.3	19.9
9 8	23 41.34	- 0 13.1	1.125	2.124	4.8	18.0	9 8	23 41.27	- 1 47.2	1.245	2.245	4.2	19.6
9 18	23 33.23	- 1 21.6	1.136	2.141	1.1	17.8	9 18	23 33.24	- 2 57.4	1.231	2.235	1.2	19.4
9 28	23 25.66	- 2 27.9	1.172	2.158	6.4	18.2	9 28	23 25.37	- 4 6.2	1.241	2.225	6.5	19.7
10 8	23 19.79	- 3 23.2	1.231	2.176	11.4	18.5	10 8	23 18.88	- 5 4.7	1.276	2.217	11.5	20.0
10 18	23 16.40	- 4 1.7	1.311	2.194	15.6	18.9	10 18	23 14.68	- 5 46.5	1.333	2.209	15.9	20.2
493833	2015 <i>VL</i> ₁₂₉		9 15.9 305°02	6°3/ 9.3	17		347060	2010 <i>FQ</i> ₃		9 15.9 107°19	3°3/13.1	18	
8 9	0 0.17	-19 59.2	2.113	2.970	12.4	21.0	8 9	0 5.55	-10 59.1	1.926	2.769	14.0	20.5
8 19	23 55.86	-20 51.2	2.037	2.956	9.9	20.8	8 19	23 59.87	-11 22.6	1.864	2.781	10.8	20.3
8 29	23 49.52	-21 41.4	1.985	2.942	7.6	20.7	8 29	23 52.05	-11 49.5	1.824	2.794	7.2	20.2
9 8	23 41.69	-22 23.1	1.957	2.929	6.3	20.6	9 8	23 42.76	-12 14.5	1.810	2.806	3.9	20.0
9 18	23 33.12	-22 50.1	1.956	2.916	7.1	20.6	9 18	23 32.88	-12 32.6	1.825	2.818	3.9	20.0
9 28	23 24.78	-22 57.6	1.981	2.903	9.4	20.7	9 28	23 23.44	-12 39.3	1.867	2.829	7.0	20.2
10 8	23 17.55	-22 43.8	2.031	2.890	12.1	20.9	10 8	23 15.36	-12 32.3	1.936	2.841	10.4	20.5
10 18	23 12.14	-22 9.4	2.102	2.878	14.6	21.0	10 18	23 9.29	-12 11.0	2.028	2.852	13.4	20.7
114767	2003 <i>JE</i> ₁₁		9 15.9 208°48	0°1/15.9	18								

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
222134	1999 <i>VK</i> ₁₁₂	9 15.9 258°61		1°6/12.6 18			151167	2001 <i>XP</i> ₁₅₁	9 15.9 7°66		0°4/16.3 18		
8 9	23 50.88	- 9 54.2	4.351	5.186	6.9	20.0	8 9	23 56.90	+ 1 3.9	1.920	2.749	14.6	20.0
8 19	23 47.65	-10 23.8	4.268	5.184	5.3	19.9	8 19	23 53.41	+ 0 41.6	1.842	2.749	11.4	19.8
8 29	23 43.56	-10 55.7	4.211	5.181	3.5	19.7	8 29	23 47.95	+ 0 5.3	1.785	2.749	7.7	19.6
9 8	23 38.89	-11 27.6	4.183	5.179	1.9	19.6	9 8	23 41.03	- 0 41.7	1.752	2.750	3.6	19.4
9 18	23 33.93	-11 57.1	4.184	5.176	2.0	19.6	9 18	23 33.42	- 1 34.4	1.747	2.751	0.8	19.1
9 28	23 29.07	-12 21.9	4.215	5.174	3.6	19.7	9 28	23 26.02	- 2 26.9	1.769	2.752	5.0	19.5
10 8	23 24.63	-12 40.2	4.275	5.171	5.4	19.9	10 8	23 19.71	- 3 13.0	1.818	2.754	9.0	19.7
10 18	23 20.94	-12 50.7	4.361	5.168	7.0	20.0	10 18	23 15.16	- 3 48.4	1.891	2.755	12.4	19.9
19715	1999 <i>UA</i> ₄	9 15.9 346°06		1°6/17.7 18			438614	2007 <i>VX</i> ₃₂₈	9 15.9 317°52		10°7/ 4.9 18		
8 9	23 54.26	+ 5 46.9	2.094	2.904	14.2	17.7	8 9	23 59.32	-26 25.9	1.589	2.459	15.1	20.2
8 19	23 51.24	+ 5 13.7	2.009	2.902	11.3	17.5	8 19	23 56.09	-28 5.3	1.525	2.440	12.8	20.0
8 29	23 46.43	+ 4 23.1	1.945	2.900	7.9	17.3	8 29	23 50.15	-29 38.8	1.482	2.423	11.1	19.9
9 8	23 40.31	+ 3 18.1	1.906	2.898	4.3	17.1	9 8	23 42.15	-30 54.8	1.461	2.405	10.8	19.8
9 18	23 33.55	+ 2 3.3	1.894	2.897	1.6	16.9	9 18	23 33.11	-31 43.2	1.464	2.388	12.1	19.8
9 28	23 26.94	+ 0 45.1	1.910	2.896	4.4	17.1	9 28	23 24.34	-31 57.2	1.489	2.372	14.5	20.0
10 8	23 21.29	- 0 29.6	1.954	2.895	8.1	17.3	10 8	23 17.11	-31 35.7	1.534	2.356	17.2	20.1
10 18	23 17.21	- 1 34.9	2.023	2.894	11.5	17.5	10 18	23 12.31	-30 41.5	1.596	2.341	19.7	20.3
506924	2008 <i>EK</i> ₁₃₁	9 15.9 113°43		2°3/13.9 17			339392	2005 <i>BA</i> ₂₄	9 15.9 197°80		0°3/15.6 18		
8 9	0 3.12	- 5 34.8	1.659	2.504	15.8	22.0	8 9	23 58.82	- 0 14.2	2.184	3.006	13.3	21.7
8 19	23 58.35	- 6 18.6	1.597	2.517	12.1	21.7	8 19	23 54.67	- 0 52.1	2.098	3.003	10.4	21.5
8 29	23 51.24	- 7 12.5	1.558	2.530	7.9	21.5	8 29	23 48.69	- 1 42.5	2.035	3.001	6.9	21.2
9 8	23 42.47	- 8 10.5	1.543	2.543	3.6	21.3	9 8	23 41.35	- 2 41.8	1.998	2.997	3.1	21.0
9 18	23 33.01	- 9 5.4	1.556	2.555	3.0	21.3	9 18	23 33.34	- 3 44.8	1.990	2.994	1.0	20.8
9 28	23 23.99	- 9 50.1	1.595	2.567	6.9	21.6	9 28	23 25.49	- 4 45.7	2.010	2.989	4.9	21.1
10 8	23 16.43	-10 19.8	1.661	2.579	11.0	21.8	10 8	23 18.61	- 5 38.7	2.058	2.985	8.6	21.3
10 18	23 11.04	-10 32.2	1.749	2.590	14.4	22.1	10 18	23 13.34	- 6 19.8	2.131	2.980	11.9	21.5
445525	2010 <i>XK</i> ₈₈	9 15.9 321°47		10°3/ 4.5 18			69462	1996 <i>UB</i> ₄	9 15.9 336°36		1°7/17.3 18		
8 9	0 0.82	-30 15.4	1.928	2.780	13.6	20.1	8 9	23 54.37	+ 5 10.1	1.223	2.072	20.0	19.3
8 19	23 56.78	-31 34.5	1.864	2.763	11.8	20.0	8 19	23 52.61	+ 4 40.8	1.147	2.064	16.0	19.0
8 29	23 50.33	-32 44.4	1.823	2.746	10.5	19.9	8 29	23 48.04	+ 3 44.6	1.090	2.057	11.2	18.7
9 8	23 42.13	-33 35.7	1.805	2.729	10.3	19.8	9 8	23 41.28	+ 2 24.8	1.053	2.050	5.8	18.4
9 18	23 33.09	-34 1.1	1.810	2.714	11.4	19.9	9 18	23 33.34	+ 0 49.0	1.040	2.044	1.7	18.2
9 28	23 24.35	-33 55.9	1.838	2.698	13.3	19.9	9 28	23 25.62	- 0 51.1	1.051	2.039	6.6	18.5
10 8	23 16.99	-33 20.0	1.887	2.683	15.4	20.1	10 8	23 19.48	- 2 22.9	1.085	2.034	12.1	18.7
10 18	23 11.79	-32 16.3	1.954	2.669	17.5	20.2	10 18	23 15.90	- 3 36.5	1.140	2.030	16.9	19.0
13931	1988 <i>RF</i> ₁₃	9 15.9 32°22		8°4/10.3 18			297144	2010 <i>TM</i> ₁₇₇	9 15.9 263°68		2°1/11.6 18		
8 9	0 7.94	-23 11.2	1.548	2.407	16.0	17.6	8 9	23 51.02	-12 32.9	4.354	5.194	6.8	20.4
8 19	0 2.26	-23 47.8	1.499	2.416	12.9	17.5	8 19	23 47.78	-13 6.3	4.273	5.190	5.2	20.3
8 29	23 53.85	-24 16.9	1.471	2.425	10.1	17.3	8 29	23 43.68	-13 41.1	4.217	5.185	3.5	20.1
9 8	23 43.61	-24 29.8	1.467	2.435	8.4	17.2	9 8	23 38.97	-14 14.8	4.190	5.181	2.3	20.0
9 18	23 32.73	-24 20.2	1.487	2.446	9.1	17.3	9 18	23 33.99	-14 44.8	4.193	5.177	2.5	20.1
9 28	23 22.58	-23 44.9	1.533	2.457	11.4	17.5	9 28	23 29.09	-15 9.0	4.225	5.173	4.0	20.2
10 8	23 14.30	-22 45.4	1.601	2.469	14.3	17.7	10 8	23 24.63	-15 25.5	4.285	5.168	5.7	20.3
10 18	23 8.60	-21 25.5	1.691	2.481	17.1	17.9	10 18	23 20.91	-15 33.3	4.371	5.164	7.3	20.4
302746	2002 <i>UW</i> ₄₁	9 15.9 277°61		5°0/10.7 18			18599	1998 <i>BK</i> ₈	9 15.9 163°66		2°4/13.8 18		
8 9	23 59.65	-14 12.5	2.021	2.877	12.9	21.4	8 9	0 2.71	- 5 28.5	1.640	2.487	15.9	18.9
8 19	23 55.63	-15 12.3	1.933	2.857	10.1	21.2	8 19	23 58.22	- 6 16.6	1.570	2.490	12.2	18.7
8 29	23 49.51	-16 16.2	1.869	2.837	7.1	20.9	8 29	23 51.29	- 7 16.1	1.521	2.494	8.0	18.5
9 8	23 41.78	-17 17.3	1.831	2.818	5.1	20.8	9 8	23 42.58	- 8 20.7	1.497	2.496	3.7	18.2
9 18	23 33.18	-18 8.6	1.819	2.797	5.8	20.8	9 18	23 33.03	- 9 22.6	1.500	2.499	3.2	18.2
9 28	23 24.69	-18 43.7	1.834	2.777	8.6	20.9	9 28	23 23.81	-10 14.3	1.530	2.501	7.2	18.4
10 8	23 17.25	-18 58.8	1.875	2.757	11.9	21.1	10 8	23 16.02	-10 50.0	1.585	2.502	11.4	18.7
10 18	23 11.64	-18 52.7	1.937	2.736	14.9	21.3	10 18	23 10.44	-11 6.9	1.663	2.503	15.1	18.9
139395	2001 <i>NB</i> ₁₇	9 15.9 341°43		5°4/11.3 18			108968	2001 <i>PE</i> ₄₀	9 15.9 155°98		3°4/21.0 18		
8 9	23 57.07	-12 55.2	1.496	2.371	15.6	19.2	8 9	23 54.04	+13 22.8	2.831	3.582	12.3	20.0
8 19	23 54.19	-13 48.9	1.426	2.361	12.1	19.0	8 19	23 50.61	+13 5.7	2.739	3.584	10.2	19.8
8 29	23 48.79	-14 47.9	1.376	2.351	8.4	18.7	8 29	23 45.79	+12 32.3	2.668	3.586	7.8	19.7
9 8	23 41.50	-15 44.0	1.351	2.343	5.6	18.6	9 8	23 40.00	+11 43.8	2.622	3.588	5.3	19.5
9 18	23 33.27	-16 28.6	1.349	2.335	6.3	18.6	9 18	23 33.72	+10 42.3	2.603	3.590	3.6	19.4
9 28	23 25.33	-16 54.3	1.373	2.328	9.7	18.8	9 28	23 27.57	+ 9 32.0	2.614	3.592	4.1	19.4
10 8	23 18.81	-16 57.0	1.419	2.322	13.5	19.0	10 8	23 22.14	+ 8 17.9	2.653	3.594	6.3	19.6
10 18	23 14.56	-16 36.3	1.486	2.317	17.0	19.2	10 18	23 17.90	+ 7 5.4	2.720	3.595	8.7	19.7
316150	2009 <i>SW</i> ₃₅₅	9 15.9 307°32		2°0/12.0 18			79176	1993 <i>FA</i> ₅₀	9 15.9 243°17		1°1/16.9 18		
8 9	23 50.77	-11 5.4	4.034	4.874	7.3	20.5	8 9	23 59.39	+ 3 44.6	1.767	2.586	16.1	20.6
8 19	23 47.68	-11 41.0	3.946	4.864	5.6	20.4	8 19	23 55.69	+ 3 14.6	1.674	2.575	12.8	20.3
8 29	23 43.66	-12 19.0	3.884	4.853	3.7	20.2	8 29	23 49.70	+ 2 25.9	1.603	2.563	8.9	20.1
9 8	23 38.97	-12 56.6	3.850	4.843	2.2	20.1	9 8	23 41.93	+ 1 21.3	1.556	2.551	4.4	19.8
9 18	23 33.97	-13 31.1	3.845	4.833	2.4	20.1	9 18	23 33.19	+ 0 6.1	1.535	2.539	1.2	19.5
9 28	23 29.04	-13 59.8	3.870	4.823	4.1	20.2	9 28	23 24.54	- 1 11.9	1.542	2.526	5.5	19.8
10 8	23 24.56	-14 20.7	3.923	4.813	6.0	20.4	10 8	23 17.05	- 2 24.4	1.575	2.513	10.0	20.0
10 18	23 20.89	-14 32.5	4.001	4.803	7.7	20.5	10 18	23 11.56	- 3 24.6	1.632	2.499	14.0	20.3
11138	Hotakadake	9 15.9 4°90		6°7/21.1 18			519131	2010 <i>MC</i> ₇₆	9 15.9 262°96		3°8/18.9 18		

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
486624	2013 <i>LY</i> ₁₉		9 15.9 114°73	3°4/11.7 18			218070	2002 <i>FL</i> ₃₇		9 15.9 294°48	1°7/12.9 16		
8 9	23 57.41	-11 50.6	2.456	3.304	11.2	21.2	8 9	23 54.53	-10 54.5	4.196	5.027	7.3	19.9
8 19	23 53.31	-12 41.9	2.390	3.311	8.6	21.1	8 19	23 50.46	-11 7.4	4.111	5.023	5.5	19.7
8 29	23 47.62	-13 36.5	2.347	3.317	5.8	20.9	8 29	23 45.45	-11 21.7	4.051	5.019	3.7	19.6
9 8	23 40.82	-14 29.2	2.332	3.324	3.7	20.8	9 8	23 39.80	-11 35.4	4.020	5.015	2.0	19.5
9 18	23 33.53	-15 15.1	2.345	3.330	4.1	20.8	9 18	23 33.85	-11 46.3	4.019	5.011	2.0	19.5
9 28	23 26.47	-15 49.6	2.386	3.336	6.5	21.0	9 28	23 28.00	-11 52.4	4.048	5.007	3.7	19.6
10 8	23 20.33	-16 9.8	2.454	3.342	9.1	21.2	10 8	23 22.63	-11 52.3	4.106	5.003	5.6	19.7
10 18	23 15.63	-16 14.6	2.545	3.348	11.6	21.4	10 18	23 18.09	-11 44.9	4.190	4.999	7.3	19.8
119950	2002 <i>KF</i> ₂		9 15.9 71°79	1°1/17.7 18			92022	1999 <i>VU</i> ₁₆₅		9 15.9 292°45	3°8/11.9 18		
8 9	23 52.46	+ 5 9.4	3.038	3.833	10.6	19.8	8 9	23 59.65	-12 50.4	2.197	3.047	12.3	20.0
8 19	23 49.23	+ 4 36.2	2.958	3.842	8.4	19.7	8 19	23 55.32	-13 27.9	2.120	3.041	9.5	19.8
8 29	23 44.79	+ 3 51.6	2.901	3.852	5.8	19.5	8 29	23 49.12	-14 8.3	2.066	3.036	6.5	19.6
9 8	23 39.52	+ 2 57.9	2.870	3.862	3.1	19.3	9 8	23 41.57	-14 46.1	2.039	3.030	4.1	19.4
9 18	23 33.87	+ 1 58.3	2.869	3.872	1.1	19.2	9 18	23 33.37	-15 16.2	2.039	3.025	4.5	19.4
9 28	23 28.37	+ 0 57.0	2.897	3.881	3.2	19.4	9 28	23 25.39	-15 34.0	2.067	3.020	7.1	19.6
10 8	23 23.52	- 0 2.0	2.955	3.891	5.9	19.6	10 8	23 18.45	-15 36.6	2.121	3.014	10.1	19.8
10 18	23 19.74	- 0 54.8	3.039	3.901	8.3	19.7	10 18	23 13.16	-15 23.2	2.198	3.009	12.9	20.0
328877	2010 <i>BJ</i> ₇₀		9 15.9 287°27	2°7/21.1 18			73663	1981 <i>EL</i> ₃₁		9 15.9 151°71	0°4/15.5 18		
8 9	23 53.36	+12 20.1	4.520	5.252	8.2	20.4	8 9	0 0.681	+ 0 34.1	1.663	2.496	16.3	19.7
8 19	23 49.57	+12 37.2	4.415	5.247	6.9	20.2	8 19	23 56.72	- 0 16.1	1.591	2.502	12.7	19.5
8 29	23 44.88	+12 45.5	4.334	5.241	5.3	20.1	8 29	23 50.29	- 1 23.3	1.540	2.508	8.4	19.2
9 8	23 39.55	+12 45.3	4.279	5.236	3.8	20.0	9 8	23 42.15	- 2 42.5	1.513	2.513	3.7	19.0
9 18	23 33.88	+12 37.3	4.252	5.231	2.8	19.9	9 18	23 33.22	- 4 6.2	1.514	2.518	1.3	18.8
9 28	23 28.25	+12 23.0	4.255	5.225	3.1	19.9	9 28	23 24.58	- 5 25.5	1.542	2.522	6.0	19.1
10 8	23 23.03	+12 4.3	4.288	5.220	4.4	20.0	10 8	23 17.30	- 6 32.9	1.596	2.526	10.5	19.4
10 18	23 18.55	+11 43.6	4.349	5.214	5.9	20.1	10 18	23 12.13	- 7 23.0	1.674	2.529	14.3	19.6
310433	2000 <i>AH</i> ₁		9 15.9 245°51	5°7/29.5 18			440253	2004 <i>RR</i> ₆₄		9 15.9 349°19	0°3/16.1 18		
8 9	23 53.89	+31 24.0	4.806	5.378	9.4	20.3	8 9	0 0.78	- 2 5.0	1.806	2.641	15.1	20.1
8 19	23 50.08	+32 0.5	4.702	5.376	8.6	20.2	8 19	23 56.59	- 1 51.4	1.725	2.636	11.8	19.9
8 29	23 45.28	+32 24.2	4.617	5.374	7.7	20.1	8 29	23 50.18	- 1 47.5	1.665	2.632	8.0	19.7
9 8	23 39.75	+32 34.0	4.552	5.372	6.8	20.1	9 8	23 42.12	- 1 50.9	1.629	2.628	3.7	19.4
9 18	23 33.83	+32 29.6	4.511	5.370	6.1	20.0	9 18	23 33.23	- 1 58.2	1.620	2.624	0.9	19.2
9 28	23 27.93	+32 11.5	4.495	5.367	5.7	20.0	9 28	23 24.55	- 2 5.3	1.639	2.622	5.3	19.5
10 8	23 22.45	+31 41.6	4.505	5.365	5.9	20.0	10 8	23 17.08	- 2 7.8	1.683	2.620	9.5	19.7
10 18	23 17.77	+31 2.4	4.541	5.363	6.5	20.0	10 18	23 11.59	- 2 2.8	1.752	2.618	13.2	20.0
13181	Peneleos		9 15.9 251°42	0°2/15.5 18			116619	2004 <i>BY</i> ₁₁₇		9 15.9 257°41	0°3/16.3 18		
8 9	23 50.32	- 2 12.2	4.741	5.553	6.8	19.6	8 9	23 57.15	+ 1 54.3	2.136	2.955	13.7	20.5
8 19	23 47.19	- 2 31.5	4.644	5.544	5.2	19.5	8 19	23 53.57	+ 1 15.6	2.038	2.940	10.8	20.3
8 29	23 43.28	- 2 55.4	4.572	5.536	3.4	19.3	8 29	23 48.10	+ 0 21.7	1.962	2.924	7.3	20.0
9 8	23 38.82	- 3 22.4	4.528	5.527	1.5	19.2	9 8	23 41.18	- 0 44.2	1.911	2.908	3.4	19.8
9 18	23 34.09	- 3 50.5	4.514	5.518	0.5	19.1	9 18	23 33.47	- 1 57.0	1.888	2.892	0.8	19.5
9 28	23 29.41	- 4 17.8	4.531	5.509	2.5	19.3	9 28	23 25.82	- 3 10.3	1.893	2.876	4.9	19.8
10 8	23 25.11	- 4 42.2	4.577	5.501	4.4	19.4	10 8	23 19.08	- 4 17.4	1.927	2.859	8.8	20.0
10 18	23 21.46	- 5 2.0	4.651	5.492	6.1	19.5	10 18	23 13.95	- 5 13.0	1.985	2.842	12.3	20.2
72803	2001 <i>GD</i>		9 15.9 90°51	7°5/26.8 18			443417	2014 <i>HL</i> ₇₃		9 15.9 224°84	0°3/15.6 18		
8 9	23 57.77	+25 23.5	2.559	3.226	15.3	18.8	8 9	23 57.57	- 0 11.1	1.988	2.817	14.1	21.8
8 19	23 53.73	+25 52.8	2.479	3.241	13.5	18.7	8 19	23 53.91	- 0 48.4	1.906	2.815	11.0	21.6
8 29	23 48.00	+26 0.5	2.417	3.255	11.5	18.6	8 29	23 48.29	- 1 39.3	1.846	2.813	7.3	21.4
9 8	23 41.04	+25 45.1	2.376	3.270	9.5	18.5	9 8	23 41.24	- 2 39.9	1.811	2.810	3.3	21.2
9 18	23 33.50	+25 6.6	2.358	3.285	8.0	18.4	9 18	23 33.47	- 3 44.6	1.804	2.808	1.1	21.0
9 28	23 26.16	+24 7.7	2.366	3.299	7.5	18.4	9 28	23 25.89	- 4 46.8	1.824	2.805	5.2	21.3
10 8	23 19.75	+22 54.0	2.401	3.313	8.3	18.5	10 8	23 19.36	- 5 40.5	1.872	2.802	9.1	21.5
10 18	23 14.85	+21 31.8	2.462	3.328	9.9	18.6	10 18	23 14.54	- 6 21.1	1.944	2.799	12.6	21.7
205415	2001 <i>FP</i> ₉₅		9 15.9 42°74	5°5/11.3 18			163304	2002 <i>JF</i> ₂₅		9 15.9 64°09	2°6/13.5 17		
8 9	0 2.87	-15 30.2	1.752	2.611	14.5	19.8	8 9	23 59.53	- 5 55.5	1.615	2.470	15.7	19.8
8 19	23 58.20	-16 15.9	1.688	2.613	11.3	19.6	8 19	23 55.62	- 6 50.3	1.561	2.486	12.0	19.6
8 29	23 51.19	-17 2.7	1.647	2.615	8.0	19.4	8 29	23 49.46	- 7 55.3	1.528	2.503	7.8	19.4
9 8	23 42.52	-17 43.2	1.631	2.617	5.7	19.3	9 8	23 41.73	- 9 3.5	1.520	2.520	3.7	19.2
9 18	23 33.12	-18 10.7	1.641	2.620	6.2	19.3	9 18	23 33.37	-10 7.3	1.538	2.537	3.4	19.2
9 28	23 24.12	-18 19.9	1.677	2.622	9.1	19.5	9 28	23 25.47	-10 59.2	1.583	2.553	7.2	19.5
10 8	23 16.54	-18 8.6	1.737	2.625	12.3	19.7	10 8	23 18.98	-11 34.2	1.653	2.570	11.0	19.7
10 18	23 11.09	-17 37.5	1.820	2.628	15.3	19.9	10 18	23 14.57	-11 50.2	1.746	2.587	14.4	20.0
481785	2008 <i>SE</i> ₂₈₉		9 15.9 327°79	1°4/16.9 16			454510	2014 <i>OU</i> ₁₈₅		9 15.9 344°81	5°6/9.3 18		
8 9	23 55.17	+ 1 41.5	1.286	2.142	18.8	21.7	8 9	23 56.19	-16 36.0	2.109	2.972	12.2	21.3
8 19	23 53.31	+ 1 46.3	1.197	2.118	15.1	21.4	8 19	23 52.76	-17 49.7	2.043	2.969	9.5	21.1
8 29	23 48.64	+ 1 32.3	1.126	2.095	10.5	21.0	8 29	23 47.47	-19 4.7	2.001	2.966	7.0	21.0
9 8	23 41.66	+ 1 1.4	1.075	2.073	5.3	20.7	9 8	23 40.85	-20 13.8	1.985	2.964	5.6	20.9
9 18	23 33.29	+ 0 18.1	1.048	2.052	1.6	20.4	9 18	23 33.60	-21 10.3	1.995	2.962	6.5	21.0
9 28	23 24.92	- 0 29.7	1.045	2.033	6.7	20.6	9 28	23 26.57	-21 48.6	2.032	2.960	8.8	21.1
10 8	23 17.98	- 1 12.9	1.065	2.014	12.2	20.9	10 8	23 20.59	-22 6.0	2.093	2.958	11.5	21.3
10 18	23 13.58	- 1 44.1	1.104	1.997	17.2	21.1	10 18	23 16.27	-22 1.9	2.176	2.957	14.0	21.4
243679	1999 <i>XV</i> ₂₉		9 15.9 317°24	8°1/23.5 18			467748	2009 <i>SK</i> ₁₈₆		9 15.9 3			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
513733	2012 <i>TT</i> ₂₆₇		9 15.9 338°78	3°4/12.9	18		168046	2006 <i>AQ</i> ₁		9 15.9 194°53	9°1/19.8	15	
8 9	23 55.32	- 6 31.6	1.395	2.267	16.7	21.0	8 9	0 16.04	+10 31.6	1.173	1.969	23.8	20.1
8 19	23 53.01	- 7 32.3	1.323	2.258	12.9	20.7	8 19	0 10.13	+12 29.8	1.098	1.969	20.2	19.9
8 29	23 48.12	- 8 46.5	1.272	2.250	8.5	20.5	8 29	0 0.26	+14 9.8	1.040	1.968	16.0	19.6
9 8	23 41.29	-10 6.3	1.243	2.243	4.3	20.2	9 8	23 47.07	+15 24.8	1.001	1.967	11.7	19.4
9 18	23 33.46	-11 22.3	1.239	2.236	4.4	20.2	9 18	23 31.96	+16 9.2	0.986	1.966	9.2	19.3
9 28	23 25.88	-12 24.6	1.260	2.230	8.6	20.4	9 28	23 16.97	+16 22.6	0.995	1.964	10.5	19.3
10 8	23 19.73	-13 5.9	1.304	2.225	13.1	20.7	10 8	23 4.17	+16 12.0	1.028	1.962	14.3	19.5
10 18	23 15.89	-13 23.0	1.368	2.220	17.1	20.9	10 18	22 55.01	+15 48.1	1.081	1.960	18.5	19.8
509650	2008 <i>GW</i> ₅₄		9 15.9 131°14	1°5/14.6	17		482666	2013 <i>CV</i> ₅		9 15.9 266°07	2°4/18.3	16	
8 9	0 2.69	- 3 34.9	1.766	2.603	15.3	22.5	8 9	23 58.10	+ 6 19.1	2.032	2.833	14.9	22.2
8 19	23 57.96	- 4 16.8	1.699	2.614	11.8	22.3	8 19	23 54.41	+ 6 12.6	1.937	2.823	12.0	22.0
8 29	23 50.99	- 5 10.2	1.655	2.625	7.7	22.0	8 29	23 48.72	+ 5 49.5	1.863	2.812	8.6	21.8
9 8	23 42.44	- 6 9.7	1.636	2.636	3.4	21.8	9 8	23 41.50	+ 5 11.1	1.813	2.801	5.0	21.5
9 18	23 33.19	- 7 8.8	1.644	2.645	2.2	21.7	9 18	23 33.47	+ 4 20.8	1.790	2.791	2.4	21.4
9 28	23 24.30	- 8 0.5	1.680	2.655	6.3	22.0	9 28	23 25.51	+ 3 23.9	1.795	2.780	4.8	21.5
10 8	23 16.77	- 8 39.3	1.742	2.664	10.3	22.3	10 8	23 18.55	+ 2 26.8	1.827	2.769	8.5	21.7
10 18	23 11.28	- 9 2.1	1.828	2.672	13.8	22.5	10 18	23 13.31	+ 1 35.5	1.884	2.757	12.1	21.9
154157	2002 <i>GW</i> ₂₁		9 15.9 134°62	5°3/24.6	18		221514	2006 <i>HO</i> ₄		9 15.9 230°60	0°9/17.2	18	
8 9	23 56.60	+21 34.7	2.994	3.679	12.9	21.1	8 9	23 55.80	+ 3 23.2	2.742	3.543	11.4	21.0
8 19	23 52.51	+21 28.7	2.907	3.693	11.2	20.9	8 19	23 52.05	+ 2 58.7	2.645	3.535	9.1	20.9
8 29	23 47.03	+21 4.0	2.839	3.705	9.2	20.8	8 29	23 46.83	+ 2 22.4	2.571	3.526	6.3	20.7
9 8	23 40.58	+20 20.6	2.794	3.718	7.2	20.7	9 8	23 40.56	+ 1 36.7	2.524	3.518	3.2	20.5
9 18	23 33.68	+19 19.9	2.776	3.730	5.6	20.6	9 18	23 33.73	+ 0 44.6	2.505	3.509	1.0	20.3
9 28	23 26.95	+18 5.3	2.786	3.741	5.4	20.6	9 28	23 26.99	- 0 9.4	2.516	3.500	3.7	20.5
10 8	23 20.99	+16 41.7	2.825	3.752	6.6	20.7	10 8	23 20.96	- 1 0.9	2.556	3.490	6.8	20.7
10 18	23 16.26	+15 15.0	2.891	3.762	8.4	20.9	10 18	23 16.16	- 1 45.9	2.622	3.480	9.6	20.8
462213	2007 <i>VJ</i> ₂₀₁		9 15.9 88°48	1°2/16.9	17		347070	2010 <i>FP</i> ₅₇		9 15.9 158°05	2°9/12.6	17	
8 9	0 2.32	+ 3 19.6	1.390	2.223	18.9	21.8	8 9	23 59.50	- 8 2.5	2.173	3.016	12.6	21.5
8 19	23 58.20	+ 2 57.2	1.330	2.237	14.9	21.6	8 19	23 55.17	- 9 6.7	2.103	3.022	9.6	21.3
8 29	23 51.40	+ 2 14.3	1.288	2.252	10.2	21.4	8 29	23 49.01	-10 18.2	2.056	3.027	6.3	21.2
9 8	23 42.68	+ 1 15.3	1.270	2.266	5.0	21.1	9 8	23 41.54	-11 31.1	2.036	3.032	3.4	21.0
9 18	23 33.13	+ 0 6.8	1.276	2.280	1.4	20.9	9 18	23 33.48	-12 39.1	2.044	3.037	3.6	21.0
9 28	23 24.07	- 1 2.0	1.309	2.294	6.0	21.3	9 28	23 25.66	-13 36.0	2.082	3.041	6.6	21.2
10 8	23 16.68	- 2 2.6	1.367	2.308	10.8	21.6	10 8	23 18.88	-14 17.4	2.145	3.045	9.8	21.4
10 18	23 11.75	- 2 48.7	1.448	2.322	15.0	21.9	10 18	23 13.75	-14 41.4	2.233	3.048	12.6	21.6
390193	2012 <i>WM</i> ₂₃		9 15.9 254°29	2°1/13.9	18		163328	2002 <i>JU</i> ₁₃₂		9 15.9 235°60	2°3/17.9	18	
8 9	23 59.62	- 5 49.2	1.870	2.715	14.3	21.0	8 9	0 0.99	+ 5 52.8	1.645	2.458	17.3	20.6
8 19	23 55.64	- 6 27.7	1.790	2.710	11.0	20.8	8 19	23 57.14	+ 5 39.3	1.556	2.449	14.0	20.4
8 29	23 49.53	- 7 15.8	1.733	2.705	7.2	20.6	8 29	23 50.81	+ 5 5.2	1.485	2.440	10.0	20.1
9 8	23 41.83	- 8 8.5	1.700	2.700	3.4	20.3	9 8	23 42.54	+ 4 12.5	1.438	2.430	5.5	19.9
9 18	23 33.35	- 8 59.5	1.695	2.694	2.8	20.3	9 18	23 33.20	+ 3 5.5	1.417	2.419	2.3	19.6
9 28	23 25.06	- 9 42.4	1.717	2.689	6.5	20.5	9 28	23 23.96	+ 1 51.8	1.423	2.408	5.6	19.8
10 8	23 17.94	-10 12.2	1.765	2.683	10.4	20.7	10 8	23 15.99	+ 0 40.2	1.455	2.397	10.2	20.1
10 18	23 12.71	-10 25.9	1.837	2.678	13.8	21.0	10 18	23 10.21	- 0 21.7	1.510	2.385	14.4	20.3
163849	2003 <i>SG</i> ₆₉		9 15.9 339°60	2°5/18.5	18		513965	2014 <i>FO</i> ₁₂		9 15.9 300°60	0°1/15.9	18	
8 9	23 56.08	+ 7 38.5	1.741	2.551	16.6	19.7	8 9	0 3.64	- 2 49.1	1.695	2.531	15.9	20.9
8 19	23 53.08	+ 7 13.1	1.659	2.550	13.4	19.5	8 19	23 59.08	- 2 40.1	1.609	2.521	12.5	20.7
8 29	23 47.91	+ 6 26.1	1.596	2.548	9.6	19.3	8 29	23 52.02	- 2 41.1	1.543	2.511	8.4	20.4
9 8	23 41.13	+ 5 19.9	1.557	2.547	5.5	19.0	9 8	23 43.05	- 2 49.2	1.502	2.501	3.8	20.1
9 18	23 33.53	+ 3 59.6	1.544	2.545	2.5	18.8	9 18	23 33.07	- 3 0.6	1.487	2.491	1.1	19.9
9 28	23 26.13	+ 2 32.8	1.558	2.544	5.1	19.0	9 28	23 23.25	- 3 10.5	1.500	2.482	5.9	20.2
10 8	23 19.89	+ 1 8.4	1.598	2.543	9.2	19.3	10 8	23 14.74	- 3 14.2	1.538	2.472	10.4	20.5
10 18	23 15.58	- 0 5.9	1.663	2.542	13.1	19.5	10 18	23 8.42	- 3 8.5	1.600	2.463	14.4	20.7
521401	2015 <i>MZ</i> ₁₄₃		9 15.9 357°13	0°3/15.7	18		487704	2015 <i>RZ</i> ₂₆		9 15.9 345°19	1°1/17.1	18	
8 9	23 55.84	+ 0 10.7	1.703	2.544	15.6	21.3	8 9	23 51.18	+ 5 26.9	1.672	2.504	16.3	20.0
8 19	23 52.89	+ 0 28.0	1.627	2.542	12.2	21.1	8 19	23 49.40	+ 4 32.8	1.588	2.495	13.0	19.7
8 29	23 47.78	- 1 22.6	1.572	2.541	8.1	20.9	8 29	23 45.53	+ 3 15.8	1.524	2.487	9.0	19.5
9 8	23 41.07	- 2 28.6	1.541	2.541	3.6	20.6	9 8	23 40.10	+ 1 40.0	1.484	2.480	4.5	19.2
9 18	23 33.58	- 3 39.4	1.536	2.540	1.1	20.4	9 18	23 33.85	- 0 7.6	1.470	2.474	1.1	19.0
9 28	23 26.31	- 4 47.4	1.558	2.540	5.7	20.7	9 28	23 27.76	- 1 57.3	1.482	2.468	5.4	19.3
10 8	23 20.24	- 5 45.3	1.606	2.541	10.0	21.0	10 8	23 22.78	- 3 38.9	1.521	2.464	9.8	19.5
10 18	23 16.10	- 6 28.0	1.677	2.542	13.8	21.2	10 18	23 19.65	- 5 4.4	1.584	2.460	13.8	19.7
164863	1999 <i>TN</i> ₂₆₉		9 15.9 341°33	4°9/18.8	18		280469	2004 <i>GL</i> ₁₀		9 15.9 187°97	2°2/18.1	18	
8 9	0 1.25	+ 5 39.6	1.345	2.174	19.7	19.0	8 9	0 0.03	+ 6 39.7	1.868	2.670	16.0	21.3
8 19	23 57.93	+ 6 45.9	1.262	2.161	16.2	18.8	8 19	23 55.99	+ 6 16.7	1.783	2.670	12.8	21.0
8 29	23 51.66	+ 7 36.4	1.197	2.150	12.1	18.5	8 29	23 49.80	+ 5 34.5	1.718	2.669	9.1	20.8
9 8	23 43.02	+ 8 9.3	1.154	2.139	7.7	18.2	9 8	23 41.99	+ 4 35.2	1.678	2.668	5.1	20.6
9 18	23 33.03	+ 8 24.4	1.134	2.129	5.0	18.0	9 18	23 33.36	+ 3 23.5	1.664	2.666	2.2	20.4
9 28	23 23.12	+ 8 24.6	1.138	2.121	7.1	18.1	9 28	23 24.92	+ 2 6.3	1.679	2.664	5.0	20.6
10 8	23 14.74	+ 8 15.9	1.166	2.114	11.5	18.4	10 8	23 17.64	+ 0 51.6	1.721	2.661	9.0	20.8
10 18	23 9.01	+ 8 5.0	1.215	2.108	15.8	18.6	10 18	23 12.26	- 0 13.9	1.788	2.658	12.8	21.0
468431	2001 <i>SL</i> ₃₂		9 15.9 14°94	0°3/15.7	16		357908	2005 <					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
464031	2014 WZ ₁₃₇		9 15.9	45°77	2°1/14.5	17	313161	2001 EE ₁₇		9 15.9	182°72	8°6/ 1.5	18
8 9	0 2.03	- 4 23.2	1.160	2.028	19.7	21.2	8 9	0 1.87	-36 23.7	3.016	3.829	10.2	21.0
8 19	23 58.49	- 4 55.8	1.105	2.036	15.2	21.0	8 19	23 56.77	-37 46.8	2.973	3.830	9.2	20.9
8 29	23 51.86	- 5 43.2	1.068	2.045	10.0	20.7	8 29	23 49.97	-38 59.3	2.955	3.830	8.6	20.9
9 8	23 42.99	- 6 38.2	1.052	2.053	4.4	20.5	9 8	23 41.97	-39 55.3	2.961	3.829	8.7	20.9
9 18	23 33.13	- 7 31.8	1.060	2.062	3.0	20.4	9 18	23 33.45	-40 30.2	2.992	3.828	9.4	20.9
9 28	23 23.83	- 8 14.6	1.093	2.072	8.2	20.7	9 28	23 25.20	-40 41.6	3.046	3.827	10.6	21.0
10 8	23 16.48	- 8 39.9	1.148	2.081	13.2	21.1	10 8	23 17.93	-40 29.6	3.122	3.825	11.8	21.1
10 18	23 11.94	- 8 44.7	1.223	2.091	17.6	21.4	10 18	23 12.22	-39 56.3	3.215	3.823	12.9	21.2
123899	2001 DP ₆₂		9 15.9	161°54	0°3/15.6	18	220373	2003 OB ₁₅		9 15.9	29°93	8°5/24.3	18
8 9	23 56.20	- 0 31.3	2.643	3.461	11.4	20.2	8 9	23 59.84	+19 10.9	1.709	2.453	19.4	19.1
8 19	23 52.32	- 1 9.5	2.562	3.465	8.8	20.0	8 19	23 56.05	+20 18.4	1.648	2.472	16.7	18.9
8 29	23 46.99	- 1 57.8	2.503	3.468	5.8	19.9	8 29	23 49.90	+21 1.0	1.603	2.491	13.8	18.8
9 8	23 40.61	- 2 52.8	2.472	3.471	2.6	19.6	9 8	23 42.06	+21 15.9	1.579	2.512	11.0	18.7
9 18	23 33.74	- 3 50.4	2.470	3.474	0.9	19.5	9 18	23 33.43	+21 2.9	1.578	2.533	8.9	18.6
9 28	23 27.03	- 4 46.0	2.497	3.476	4.1	19.8	9 28	23 25.13	+20 25.5	1.600	2.555	8.7	18.6
10 8	23 21.11	- 5 34.9	2.553	3.479	7.2	20.0	10 8	23 18.21	+19 31.0	1.648	2.577	10.2	18.8
10 18	23 16.47	- 6 14.0	2.635	3.480	10.0	20.2	10 18	23 13.43	+18 27.9	1.719	2.601	12.6	19.0
400945	2010 VO ₆₅		9 15.9	292°13	3°2/12.4	18	155572	1999 XX ₄₇		9 15.9	241°96	3°5/20.3	18
8 9	23 57.04	- 9 24.2	2.101	2.953	12.7	21.2	8 9	23 56.12	+11 24.8	2.497	3.263	13.4	20.5
8 19	23 53.48	-10 15.9	2.018	2.942	9.7	21.0	8 19	23 52.51	+11 19.6	2.399	3.256	11.1	20.4
8 29	23 48.03	-11 14.5	1.957	2.930	6.5	20.8	8 29	23 47.27	+10 57.8	2.322	3.249	8.4	20.2
9 8	23 41.17	-12 14.3	1.923	2.919	3.7	20.6	9 8	23 40.83	+10 20.1	2.269	3.242	5.6	20.0
9 18	23 33.59	-13 9.2	1.916	2.907	3.9	20.6	9 18	23 33.75	+9 28.7	2.244	3.234	3.6	19.8
9 28	23 26.15	-13 53.1	1.936	2.896	7.0	20.8	9 28	23 26.75	+8 27.6	2.247	3.227	4.4	19.9
10 8	23 19.69	-14 21.8	1.982	2.885	10.3	20.9	10 8	23 20.55	+7 22.4	2.278	3.219	7.1	20.0
10 18	23 14.88	-14 32.9	2.052	2.874	13.3	21.1	10 18	23 15.74	+6 18.8	2.336	3.212	10.0	20.2
78049	2002 JR ₁₂₇		9 15.9	45°98	0°2/15.7	17	395802	2012 WB ₃₅		9 15.9	289°16	7°8/ 8.9	18
8 9	23 57.22	+ 1 50.4	1.233	2.088	19.5	19.3	8 9	0 3.56	-21 10.1	1.759	2.619	14.4	20.8
8 19	23 54.57	+ 0 56.1	1.176	2.099	15.2	19.1	8 19	23 59.09	-22 13.1	1.682	2.601	11.7	20.6
8 29	23 49.17	- 0 21.2	1.137	2.109	10.1	18.9	8 29	23 52.07	-23 14.2	1.627	2.583	9.1	20.4
9 8	23 41.76	- 1 54.6	1.120	2.120	4.5	18.6	9 8	23 43.11	-24 4.2	1.596	2.565	7.8	20.3
9 18	23 33.46	- 3 33.9	1.128	2.132	1.3	18.4	9 18	23 33.15	-24 35.0	1.591	2.547	8.8	20.3
9 28	23 25.63	- 5 7.3	1.161	2.144	7.0	18.8	9 28	23 23.42	-24 40.4	1.610	2.529	11.4	20.4
10 8	23 19.49	- 6 24.3	1.217	2.157	12.0	19.1	10 8	23 15.08	-24 18.6	1.652	2.511	14.4	20.6
10 18	23 15.87	- 7 19.0	1.295	2.169	16.4	19.4	10 18	23 9.00	-23 31.2	1.715	2.493	17.3	20.8
309070	2006 VW ₆		9 15.9	8°22	1°9/14.2	18	358805	2008 EA ₇₉		9 15.9	243°15	0°1/15.9	18
8 9	23 57.75	- 5 11.1	1.713	2.566	15.0	20.6	8 9	23 55.71	+ 1 28.1	2.177	2.999	13.3	21.0
8 19	23 54.32	- 5 43.7	1.643	2.566	11.6	20.4	8 19	23 52.37	+ 0 39.5	2.089	2.994	10.4	20.8
8 29	23 48.70	- 6 26.5	1.594	2.568	7.6	20.2	8 29	23 47.25	- 0 23.6	2.024	2.989	7.0	20.6
9 8	23 41.49	- 7 14.4	1.569	2.569	3.4	20.0	9 8	23 40.83	- 1 37.6	1.985	2.983	3.2	20.4
9 18	23 33.53	- 8 1.0	1.571	2.571	2.5	19.9	9 18	23 33.75	- 2 56.8	1.974	2.978	0.8	20.2
9 28	23 25.86	- 8 39.9	1.599	2.574	6.5	20.2	9 28	23 26.81	- 4 14.8	1.992	2.973	4.8	20.5
10 8	23 19.44	- 9 5.9	1.652	2.577	10.5	20.4	10 8	23 20.78	- 5 24.9	2.037	2.967	8.5	20.7
10 18	23 14.98	- 9 16.2	1.729	2.581	14.0	20.6	10 18	23 16.29	- 6 22.4	2.107	2.962	11.8	20.9
329012	2010 XW ₇₈		9 15.9	275°29	7°5/ 6.4	18	382320	2013 SS ₅₁		9 15.9	329°53	0°8/15.4	18
8 9	23 58.46	-24 14.0	2.280	3.135	11.7	20.3	8 9	23 50.86	+ 0 28.0	1.111	1.987	19.8	21.1
8 19	23 54.48	-25 35.7	2.219	3.129	9.6	20.1	8 19	23 50.28	- 0 15.6	1.030	1.965	15.6	20.8
8 29	23 48.63	-26 53.2	2.182	3.124	8.0	20.0	8 29	23 46.80	- 1 25.2	0.966	1.944	10.5	20.4
9 8	23 41.42	-27 59.0	2.170	3.118	7.5	20.0	9 8	23 40.94	- 2 55.5	0.923	1.924	4.7	20.1
9 18	23 33.57	-28 46.7	2.184	3.113	8.4	20.0	9 18	23 33.69	- 4 36.8	0.902	1.906	1.9	19.8
9 28	23 25.97	-29 11.9	2.224	3.108	10.3	20.2	9 28	23 26.50	- 6 15.5	0.904	1.889	8.1	20.1
10 8	23 19.42	-29 13.0	2.286	3.102	12.4	20.3	10 8	23 20.88	- 7 38.1	0.927	1.873	14.0	20.4
10 18	23 14.55	-28 51.0	2.369	3.097	14.4	20.4	10 18	23 17.97	- 8 35.2	0.969	1.859	19.3	20.7
225215	2008 RB ₆₅		9 15.9	272°82	0°7/14.5	18	173469	2000 RX ₂₇		9 15.9	329°19	2°7/17.6	18
8 9	23 50.88	- 5 14.1	4.484	5.306	7.0	20.5	8 9	23 58.39	+ 3 11.8	1.141	1.996	20.8	20.1
8 19	23 47.68	- 5 35.0	4.396	5.304	5.3	20.4	8 19	23 56.13	+ 3 34.3	1.064	1.982	16.8	19.8
8 29	23 43.66	- 5 59.7	4.334	5.302	3.5	20.2	8 29	23 50.71	+ 3 36.4	1.003	1.969	12.0	19.5
9 8	23 39.06	- 6 26.3	4.300	5.300	1.5	20.1	9 8	23 42.72	+ 3 18.9	0.962	1.957	6.5	19.2
9 18	23 34.20	- 6 52.7	4.296	5.298	1.0	20.0	9 18	23 33.26	+ 2 45.7	0.943	1.946	2.7	18.9
9 28	23 29.41	- 7 16.8	4.323	5.295	2.9	20.2	9 28	23 23.91	+ 2 4.2	0.947	1.935	7.0	19.1
10 8	23 25.03	- 7 36.6	4.378	5.293	4.8	20.3	10 8	23 16.28	+ 1 24.0	0.974	1.926	12.7	19.4
10 18	23 21.36	- 7 50.6	4.460	5.291	6.5	20.5	10 18	23 11.56	+ 0 53.3	1.020	1.918	17.8	19.7
310397	1998 WF ₃₇		9 15.9	218°00	1°3/18.9	18	102753	1999 VB ₁₂₃		9 15.9	76°92	3°2/18.9	18
8 9	23 49.73	+ 6 54.9	4.898	5.668	7.2	20.6	8 9	23 59.62	+ 8 38.4	1.460	2.273	19.1	19.0
8 19	23 46.76	+ 6 41.0	4.798	5.664	5.8	20.5	8 19	23 56.10	+ 8 22.6	1.394	2.285	15.5	18.8
8 29	23 43.03	+ 6 19.9	4.722	5.660	4.2	20.4	8 29	23 50.06	+ 7 42.1	1.347	2.297	11.2	18.5
9 8	23 38.78	+ 5 52.5	4.673	5.656	2.5	20.3	9 8	23 42.17	+ 6 39.5	1.322	2.309	6.6	18.3
9 18	23 34.28	+ 5 20.3	4.654	5.651	1.3	20.2	9 18	23 33.45	+ 5 20.3	1.322	2.322	3.3	18.2
9 28	23 29.82	+ 4 45.2	4.665	5.647	2.2	20.3	9 28	23 25.11	+ 3 53.6	1.348	2.334	5.7	18.3
10 8	23 25.73	+ 4 9.5	4.705	5.643	3.8	20.4	10 8	23 18.30	+ 2 29.4	1.399	2.346	10.1	18.6
10 18	23 22.27	+ 3 35.2	4.774	5.638	5.5	20.5	10 18	23 13.79	+ 1 16.2	1.474	2.358	14.1	18.9
57758	2001 VV ₂₀		9 15.9	184°03	1°2/14.7	18	131082	2000 YG ₁₂₁		9 15.9	245°23	5°8/ 9.2	18</

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9 15.9

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
67189	2000 CT ₃₀		9 15.9 324°44	0°4/16.4	18		152322	2005 UP ₁₀		9 15.9 344°85	1°0/17.1	18	
8 9	23 54.75	+ 1 38.2	2.075	2.901	13.8	19.1	8 9	23 53.65	+ 4 24.7	1.849	2.673	15.2	19.7
8 19	23 51.74	+ 1 7.5	1.986	2.892	10.8	18.9	8 19	23 51.11	+ 3 41.6	1.766	2.669	12.1	19.5
8 29	23 46.90	+ 0 22.5	1.920	2.884	7.3	18.6	8 29	23 46.59	+ 2 39.6	1.703	2.665	8.3	19.3
9 8	23 40.71	- 0 33.6	1.878	2.876	3.5	18.4	9 8	23 40.60	+ 1 22.1	1.665	2.661	4.2	19.0
9 18	23 33.82	- 1 36.0	1.864	2.868	0.8	18.2	9 18	23 33.88	- 0 4.8	1.653	2.657	1.1	18.8
9 28	23 27.05	- 2 38.6	1.878	2.861	4.8	18.5	9 28	23 27.32	- 1 33.2	1.669	2.655	5.0	19.1
10 8	23 21.21	- 3 35.2	1.918	2.854	8.6	18.7	10 8	23 21.81	- 2 55.1	1.712	2.652	9.1	19.3
10 18	23 16.97	- 4 21.0	1.983	2.847	12.0	18.9	10 18	23 18.03	- 4 4.0	1.779	2.650	12.8	19.5
169928	2002 SR ₄₉		9 15.9 338°83	3°2/13.2	18		399890	2005 WN ₅₁		9 15.9 296°15	4°7/21.1	17	
8 9	0 0.06	- 9 0.9	1.693	2.550	15.0	19.4	8 9	23 56.70	+ 13 7.2	2.185	2.950	15.1	20.9
8 19	23 56.21	- 9 34.1	1.619	2.546	11.5	19.2	8 19	23 53.26	+ 13 19.8	2.088	2.941	12.6	20.7
8 29	23 50.04	- 10 14.4	1.567	2.541	7.7	18.9	8 29	23 47.95	+ 13 13.7	2.011	2.932	9.8	20.5
9 8	23 42.16	- 10 55.8	1.540	2.538	4.0	18.7	9 8	23 41.22	+ 12 48.6	1.958	2.923	6.9	20.3
9 18	23 33.45	- 11 31.8	1.538	2.534	3.9	18.7	9 18	23 33.72	+ 12 6.0	1.930	2.914	4.8	20.2
9 28	23 25.01	- 11 56.2	1.564	2.531	7.5	18.9	9 28	23 26.29	+ 11 10.0	1.929	2.906	5.4	20.2
10 8	23 17.88	- 12 4.8	1.614	2.528	11.4	19.2	10 8	23 19.77	+ 10 6.5	1.955	2.897	8.0	20.3
10 18	23 12.83	- 11 56.0	1.686	2.526	14.9	19.4	10 18	23 14.85	+ 9 2.2	2.007	2.889	11.1	20.5
455000	2015 TD ₂₄₈		9 15.9 85°54	2°8/13.2	18		317188	2001 XA ₂₆₆		9 15.9 306°21	2°3/14.2	18	
8 9	0 1.32	- 9 50.4	2.170	3.012	12.7	21.0	8 9	23 59.59	- 5 33.9	1.474	2.334	16.7	21.0
8 19	23 56.53	- 10 17.1	2.103	3.022	9.7	20.9	8 19	23 56.37	- 6 4.6	1.390	2.317	13.0	20.7
8 29	23 49.89	- 10 48.0	2.060	3.031	6.4	20.7	8 29	23 50.49	- 6 47.7	1.326	2.301	8.6	20.4
9 8	23 41.98	- 11 18.5	2.044	3.040	3.4	20.5	9 8	23 42.52	- 7 37.5	1.284	2.285	4.0	20.1
9 18	23 33.52	- 11 43.7	2.055	3.049	3.3	20.5	9 18	23 33.38	- 8 26.6	1.268	2.269	3.1	20.0
9 28	23 25.38	- 11 59.5	2.094	3.058	6.2	20.7	9 28	23 24.36	- 9 7.0	1.278	2.253	7.7	20.2
10 8	23 18.34	- 12 3.1	2.161	3.067	9.4	20.9	10 8	23 16.73	- 9 32.1	1.311	2.238	12.5	20.5
10 18	23 12.99	- 11 53.4	2.251	3.076	12.2	21.1	10 18	23 11.46	- 9 38.3	1.366	2.224	16.7	20.7
190545	2000 RZ ₈₉		9 15.9 33°63	2°5/18.2	17		71474	2000 BY ₁₆		9 15.9 173°96	2°8/12.4	18	
8 9	23 56.31	+ 6 39.9	1.323	2.157	19.6	19.5	8 9	23 57.50	- 10 9.7	2.600	3.442	10.8	19.5
8 19	23 53.74	+ 6 20.3	1.263	2.169	15.7	19.2	8 19	23 53.39	- 10 56.3	2.525	3.444	8.3	19.4
8 29	23 48.57	+ 5 36.1	1.222	2.181	11.1	19.0	8 29	23 47.75	- 11 47.1	2.475	3.445	5.5	19.2
9 8	23 41.52	+ 4 30.7	1.201	2.194	6.1	18.8	9 8	23 41.03	- 12 37.7	2.451	3.446	3.2	19.1
9 18	23 33.64	+ 3 10.8	1.205	2.208	2.5	18.6	9 18	23 33.81	- 13 23.3	2.456	3.446	3.4	19.1
9 28	23 26.18	+ 1 46.3	1.234	2.222	5.9	18.9	9 28	23 26.76	- 13 59.6	2.490	3.447	5.8	19.2
10 8	23 20.30	+ 0 27.5	1.288	2.237	10.5	19.2	10 8	23 20.55	- 14 23.5	2.551	3.447	8.6	19.4
10 18	23 16.76	- 0 37.4	1.363	2.252	14.7	19.5	10 18	23 15.70	- 14 33.3	2.637	3.447	11.0	19.6
511314	2014 DY ₁₁₆		9 15.9 180°10	1°0/17.1	18		366279	2013 AD ₉₁		9 15.9 266°40	3°3/19.6	18	
8 9	0 0.91	+ 2 43.9	2.467	3.266	12.6	23.3	8 9	23 57.58	+ 10 19.5	2.162	2.941	14.8	21.6
8 19	23 56.11	+ 2 26.5	2.379	3.268	10.0	23.1	8 19	23 54.05	+ 10 3.9	2.052	2.919	12.2	21.4
8 29	23 49.61	+ 1 57.1	2.314	3.269	6.9	22.9	8 29	23 48.57	+ 9 28.6	1.961	2.897	9.1	21.2
9 8	23 41.88	+ 1 18.1	2.275	3.269	3.4	22.7	9 8	23 41.55	+ 8 34.4	1.895	2.875	5.8	20.9
9 18	23 33.54	+ 0 32.9	2.265	3.269	1.0	22.5	9 18	23 33.65	+ 7 23.8	1.856	2.852	3.3	20.7
9 28	23 25.36	+ 0 14.0	2.285	3.268	4.1	22.7	9 28	23 25.71	+ 6 2.3	1.845	2.829	4.8	20.8
10 8	23 18.07	- 0 57.7	2.334	3.266	7.5	22.9	10 8	23 18.65	+ 4 37.4	1.862	2.805	8.3	21.0
10 18	23 12.26	- 1 34.5	2.409	3.264	10.5	23.1	10 18	23 13.19	+ 3 16.3	1.905	2.781	11.9	21.1
478813	2012 VB ₉		9 15.9 12°79	4°2/19.8	16		521331	2015 LU ₄₃		9 15.9 35°82	1°5/14.6	17	
8 9	23 53.21	+ 10 16.5	1.287	2.114	20.5	21.0	8 9	23 56.46	- 2 8.4	1.462	2.319	16.9	21.0
8 19	23 51.53	+ 10 9.4	1.220	2.117	16.8	20.8	8 19	23 53.58	- 3 2.3	1.405	2.330	13.0	20.7
8 29	23 47.23	+ 9 33.6	1.171	2.122	12.4	20.5	8 29	23 48.33	- 4 11.7	1.368	2.343	8.5	20.5
9 8	23 40.98	+ 8 30.8	1.142	2.127	7.8	20.3	9 8	23 41.39	- 5 29.8	1.355	2.356	3.7	20.3
9 18	23 33.78	+ 7 6.2	1.136	2.134	4.3	20.1	9 18	23 33.73	- 6 47.9	1.367	2.369	2.3	20.2
9 28	23 26.90	+ 5 30.0	1.154	2.142	6.2	20.2	9 28	23 26.49	- 7 57.2	1.405	2.384	6.8	20.5
10 8	23 21.55	+ 3 54.1	1.196	2.151	10.6	20.5	10 8	23 20.68	- 8 50.5	1.468	2.398	11.2	20.8
10 18	23 18.56	+ 2 28.9	1.261	2.160	14.9	20.8	10 18	23 17.02	- 9 23.9	1.553	2.413	14.9	21.1
407099	2009 SY ₂₈₂		9 15.9 61°32	3°5/12.1	18		209223	2003 WE ₆₄		9 15.9 336°44	3°2/18.9	18	
8 9	23 58.84	- 12 4.5	2.271	3.120	12.0	21.2	8 9	23 57.21	+ 7 57.1	1.731	2.538	16.8	20.1
8 19	23 54.61	- 12 45.3	2.202	3.123	9.2	21.0	8 19	23 54.04	+ 7 53.6	1.647	2.535	13.7	19.9
8 29	23 48.63	- 13 29.2	2.156	3.126	6.2	20.8	8 29	23 48.66	+ 7 29.9	1.583	2.531	10.0	19.7
9 8	23 41.43	- 14 11.0	2.137	3.130	3.8	20.7	9 8	23 41.60	+ 6 47.2	1.542	2.528	6.0	19.4
9 18	23 33.68	- 14 45.8	2.146	3.133	4.2	20.7	9 18	23 33.66	+ 5 49.3	1.527	2.526	3.2	19.2
9 28	23 26.18	- 15 8.9	2.183	3.137	6.7	20.9	9 28	23 25.90	+ 4 42.6	1.538	2.523	5.3	19.4
10 8	23 19.68	- 15 17.6	2.246	3.140	9.6	21.1	10 8	23 19.32	+ 3 35.0	1.575	2.521	9.2	19.6
10 18	23 14.75	- 15 11.1	2.333	3.144	12.3	21.3	10 18	23 14.70	+ 2 33.9	1.635	2.519	13.0	19.8
164789	1999 FV ₁₈		9 15.9 152°24	0°8/15.3	17		15917	Rosahavel		9 15.9 287°37	3°2/19.2	18	
8 9	0 5.66	- 2 14.0	1.827	2.652	15.4	20.6	8 9	23 56.78	+ 8 52.9	2.000	2.794	15.3	18.1
8 19	0 0.25	- 2 44.7	1.755	2.663	11.9	20.4	8 19	23 53.57	+ 8 45.3	1.895	2.773	12.6	17.9
8 29	23 52.57	- 3 27.4	1.706	2.672	7.9	20.2	8 29	23 48.32	+ 8 18.6	1.810	2.753	9.3	17.6
9 8	23 43.26	- 4 17.6	1.681	2.681	3.5	19.9	9 8	23 41.47	+ 7 33.4	1.749	2.732	5.8	17.4
9 18	23 33.21	- 5 9.5	1.685	2.688	1.5	19.8	9 18	23 33.69	+ 6 32.6	1.714	2.711	3.2	17.2
9 28	23 23.50	- 5 56.5	1.717	2.695	5.8	20.1	9 28	23 25.90	+ 5 21.5	1.706	2.690	5.0	17.2
10 8	23 15.13	- 6 33.3	1.777	2.701	9.9	20.4	10 8	23 19.04	+ 4 7.5	1.725	2.670	8.7	17.4
10 18	23 8.85	- 6 56.2	1.860	2.706	13.5	20.6	10 18	23 13.91	+ 2 58.0	1.770	2.649	12.4	17.6
89239	2001 UX ₁₅₃		9 15.9 8°75	0°5/15.4	18		515372	2013 EO ₅₈		9 15.9 37°97	1°6/14.8		

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
371815	2007 <i>TQ</i> ₁₄₄		9 15.9 277°74	2°4/13.1	18		324255	2006 <i>BQ</i> ₂₀₃		9 15.9 1°35	1°5/17.1	18	
8 9	23 57.68	- 9 46.2	2.716	3.555	10.5	20.4	8 9	23 58.78	+ 0 41.5	1.612	2.450	16.5	19.3
8 19	23 53.51	-10 13.2	2.631	3.547	8.1	20.2	8 19	23 55.34	+ 1 5.0	1.537	2.448	13.1	19.0
8 29	23 47.84	-10 44.0	2.570	3.540	5.4	20.0	8 29	23 49.55	+ 1 15.8	1.483	2.447	9.0	18.8
9 8	23 41.09	-11 15.0	2.536	3.532	2.9	19.9	9 8	23 42.01	+ 1 15.5	1.451	2.447	4.6	18.6
9 18	23 33.83	-11 42.2	2.531	3.525	2.9	19.8	9 18	23 33.60	+ 1 7.4	1.445	2.449	1.5	18.3
9 28	23 26.69	-12 1.9	2.555	3.517	5.3	20.0	9 28	23 25.45	+ 0 55.8	1.465	2.451	5.4	18.6
10 8	23 20.34	-12 11.5	2.606	3.510	8.1	20.2	10 8	23 18.62	+ 0 46.0	1.510	2.455	9.7	18.9
10 18	23 15.28	-12 9.4	2.683	3.502	10.6	20.3	10 18	23 13.88	+ 0 42.1	1.579	2.459	13.6	19.1
333815	2012 <i>FD</i> ₂₇		9 15.9 186°95	0°3/15.5	18		36271	2000 <i>AV</i> ₁₉		9 15.9 256°27	2°7/10.3	18	
8 9	23 56.52	- 1 26.6	2.902	3.717	10.5	22.0	8 9	23 51.49	-16 11.5	4.441	5.283	6.7	19.3
8 19	23 52.49	- 1 58.5	2.814	3.716	8.1	21.9	8 19	23 48.21	-16 47.9	4.364	5.280	5.2	19.1
8 29	23 47.11	- 2 38.9	2.751	3.716	5.4	21.7	8 29	23 44.06	-17 24.2	4.314	5.276	3.7	19.0
9 8	23 40.75	- 3 24.9	2.716	3.714	2.4	21.5	9 8	23 39.32	-17 57.8	4.292	5.273	2.8	19.0
9 18	23 33.92	- 4 13.0	2.709	3.713	0.9	21.4	9 18	23 34.30	-18 26.3	4.299	5.269	3.1	19.0
9 28	23 27.21	- 4 59.0	2.733	3.711	3.9	21.6	9 28	23 29.37	-18 47.5	4.335	5.266	4.4	19.1
10 8	23 21.21	- 5 39.3	2.785	3.709	6.8	21.8	10 8	23 24.88	-18 59.8	4.398	5.262	6.0	19.2
10 18	23 16.38	- 6 11.0	2.863	3.706	9.4	22.0	10 18	23 21.13	-19 2.4	4.487	5.258	7.4	19.3
353354	2010 <i>VC</i> ₁₈₁		9 15.9 323°58	0°2/15.5	17		317713	2003 <i>QG</i> ₂₈		9 15.9 5°22	0°7/16.4	18	
8 9	23 50.60	- 2 10.5	4.189	5.004	7.5	21.0	8 9	23 58.69	- 1 16.0	0.968	1.846	21.8	19.5
8 19	23 47.57	- 2 33.6	4.098	5.001	5.8	20.8	8 19	23 56.55	- 0 54.0	0.910	1.845	17.2	19.2
8 29	23 43.66	- 3 2.0	4.033	4.998	3.8	20.7	8 29	23 50.99	- 0 49.4	0.869	1.845	11.7	18.9
9 8	23 39.15	- 3 33.8	3.996	4.995	1.7	20.5	9 8	23 42.83	- 0 58.8	0.847	1.847	5.5	18.6
9 18	23 34.34	- 4 6.8	3.988	4.992	0.6	20.4	9 18	23 33.40	- 1 16.7	0.847	1.851	1.3	18.4
9 28	23 29.60	- 4 38.7	4.011	4.989	2.8	20.6	9 28	23 24.46	- 1 35.1	0.868	1.856	7.5	18.8
10 8	23 25.29	- 5 7.0	4.062	4.986	4.8	20.7	10 8	23 17.61	- 1 46.2	0.910	1.863	13.3	19.1
10 18	23 21.73	- 5 29.9	4.141	4.983	6.7	20.9	10 18	23 13.89	- 1 44.7	0.972	1.871	18.3	19.4
266104	2006 <i>SP</i> ₁₃₂		9 15.9 319°38	3°0/14.1	18		380157	2000 <i>BW</i> ₂₁		9 15.9 208°71	1°5/17.2	18	
8 9	23 59.71	- 7 19.7	1.192	2.068	18.7	19.8	8 9	0 2.27	+ 2 54.3	1.702	2.521	16.6	21.3
8 19	23 57.20	- 7 36.8	1.108	2.044	14.7	19.5	8 19	0 57.99	+ 2 48.8	1.619	2.519	13.2	21.1
8 29	23 51.50	- 8 5.3	1.042	2.020	9.9	19.2	8 29	23 51.32	+ 2 27.1	1.557	2.516	9.1	20.9
9 8	23 43.16	- 8 39.1	0.997	1.997	4.8	18.8	9 8	23 42.82	+ 1 51.5	1.519	2.514	4.7	20.6
9 18	23 33.25	- 9 10.0	0.975	1.975	3.9	18.7	9 18	23 33.40	+ 1 6.3	1.507	2.510	1.5	20.4
9 28	23 23.36	- 9 29.2	0.976	1.954	9.1	18.9	9 28	23 24.16	+ 0 17.9	1.522	2.507	5.4	20.7
10 8	23 15.12	- 9 30.0	0.999	1.934	14.6	19.1	10 8	23 16.22	- 0 26.9	1.564	2.503	9.9	20.9
10 18	23 9.76	- 9 9.4	1.041	1.915	19.6	19.4	10 18	23 10.41	- 1 2.4	1.629	2.499	13.8	21.1
386983	2012 <i>PB</i> ₃₀		9 15.9 15°68	1°5/17.3	18		84811	2002 <i>YW</i> ₁₆		9 15.9 262°67	2°8/13.2	18	
8 9	23 53.93	+ 4 53.3	1.242	2.092	19.7	19.6	8 9	23 59.16	- 8 2.3	2.017	2.864	13.3	19.9
8 19	23 52.13	+ 4 19.5	1.179	2.096	15.7	19.3	8 19	23 55.20	- 8 45.3	1.936	2.858	10.2	19.7
8 29	23 47.66	+ 3 20.3	1.134	2.101	10.8	19.1	8 29	23 49.25	- 9 35.8	1.878	2.851	6.8	19.5
9 8	23 41.20	+ 2 0.1	1.110	2.107	5.5	18.8	9 8	23 41.82	-10 28.6	1.846	2.844	3.5	19.2
9 18	23 33.80	+ 0 27.3	1.110	2.114	1.5	18.6	9 18	23 33.66	-11 17.5	1.841	2.837	3.4	19.2
9 28	23 26.77	- 1 6.8	1.134	2.122	6.2	18.9	9 28	23 25.67	-11 56.7	1.864	2.830	6.7	19.4
10 8	23 21.32	- 2 30.9	1.182	2.130	11.3	19.2	10 8	23 18.75	-12 21.8	1.913	2.823	10.2	19.6
10 18	23 18.27	- 3 36.8	1.251	2.140	15.8	19.5	10 18	23 13.58	-12 30.5	1.985	2.816	13.4	19.8
211687	2003 <i>WJ</i> ₁₀₆		9 15.9 271°91	2°9/13.0	18		215487	2002 <i>TC</i> ₅₂		9 15.9 308°18	5°4/21.6	18	
8 9	0 0.70	- 8 23.3	2.072	2.915	13.1	21.3	8 9	23 54.16	+14 55.0	1.791	2.566	17.5	19.8
8 19	23 56.53	- 9 7.8	1.972	2.891	10.2	21.0	8 19	23 51.85	+14 51.9	1.687	2.545	14.9	19.6
8 29	23 50.25	-10 0.5	1.895	2.866	6.8	20.8	8 29	23 47.34	+14 23.0	1.601	2.524	11.7	19.3
9 8	23 42.34	-10 56.1	1.843	2.841	3.6	20.5	9 8	23 41.09	+13 27.4	1.537	2.504	8.3	19.1
9 18	23 33.49	-11 48.5	1.820	2.815	3.6	20.5	9 18	23 33.83	+12 6.8	1.497	2.484	5.7	18.9
9 28	23 24.65	-12 31.4	1.825	2.789	7.0	20.7	9 28	23 26.56	+10 27.3	1.484	2.464	6.2	18.9
10 8	23 16.77	-12 59.7	1.856	2.762	10.7	20.8	10 8	23 20.32	+ 8 38.3	1.496	2.445	9.4	19.0
10 18	23 10.65	-13 10.7	1.910	2.735	14.1	21.0	10 18	23 15.98	+ 6 50.2	1.533	2.426	13.2	19.2
27156	1998 <i>YK</i> ₂₂		9 15.9 346°65	6°2/20.7	18		295161	2008 <i>FH</i> ₆₅		9 15.9 82°31	0°1/16.0	18	
8 9	23 55.56	+11 14.9	1.249	2.071	21.3	18.0	8 9	23 57.30	+ 0 24.8	2.187	3.009	13.3	21.6
8 19	23 53.67	+11 53.2	1.173	2.062	17.8	17.7	8 19	23 53.46	- 0 8.5	2.117	3.022	10.3	21.4
8 29	23 48.91	+12 5.2	1.112	2.055	13.8	17.5	8 29	23 47.91	- 0 53.9	2.070	3.034	6.9	21.2
9 8	23 41.89	+11 49.0	1.071	2.049	9.5	17.2	9 8	23 41.15	- 1 47.6	2.048	3.046	3.1	21.0
9 18	23 33.60	+11 6.0	1.052	2.043	6.4	17.1	9 18	23 33.86	- 2 44.9	2.054	3.059	0.8	20.8
9 28	23 25.47	+10 2.7	1.056	2.039	7.5	17.1	9 28	23 26.82	- 3 40.1	2.089	3.071	4.6	21.1
10 8	23 18.91	+ 8 49.6	1.082	2.036	11.5	17.3	10 8	23 20.78	- 4 28.3	2.152	3.083	8.1	21.4
10 18	23 14.96	+ 7 37.8	1.130	2.034	15.8	17.6	10 18	23 16.28	- 5 5.6	2.240	3.095	11.1	21.6
494814	2007 <i>RC</i> ₂₇₈		9 15.9 7°68	16°1/12.9	17		2420	<i>Čiurlionis</i>		9 15.9 320°21	5°2/21.4	18	
8 9	0 30.79	-33 38.5	0.866	1.724	25.5	20.0	8 9	23 53.33	+14 54.5	1.570	2.358	19.1	16.1
8 19	0 22.44	-33 55.5	0.820	1.724	22.1	19.8	8 19	23 51.41	+14 37.1	1.478	2.346	16.1	15.9
8 29	0 8.49	-33 44.9	0.788	1.724	18.7	19.6	8 29	23 47.13	+13 49.5	1.404	2.334	12.5	15.6
9 8	23 50.60	-32 48.2	0.774	1.726	16.4	19.5	9 8	23 41.01	+12 31.4	1.351	2.323	8.6	15.4
9 18	23 31.52	-30 55.0	0.780	1.728	16.5	19.5	9 18	23 33.87	+10 46.2	1.322	2.312	5.5	15.2
9 28	23 14.45	-28 8.4	0.806	1.731	18.8	19.7	9 28	23 26.82	+ 8 42.3	1.318	2.302	6.3	15.2
10 8	23 1.68	-24 44.3	0.853	1.735	22.3	19.9	10 8	23 21.00	+ 6 32.0	1.340	2.292	9.9	15.4
10 18	22 54.08	-21 1.5	0.918	1.740	25.8	20.2	10 18	23 17.27	+ 4 27.7	1.386	2.283	14.0	15.6
204006	2003 <i>UK</i> ₁₄		9 15.9 243°83	0°9/16.9	18		128902	2004 <i>TU</</i>					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
103355	2000 AY ₉₀		9 15.9 273°74	6°1/21.7 18			20298	Gordonsu		9 15.9 94°07	4°2/12.3 18		
8 9	0 0.33	+14 45.6	1.991	2.747	16.6	20.0	8 9	0 3.00	-11 40.6	1.750	2.605	14.7	19.0
8 19	23 56.42	+15 22.2	1.890	2.733	14.2	19.8	8 19	23 58.29	-12 27.5	1.691	2.615	11.3	18.8
8 29	23 50.29	+15 39.4	1.808	2.718	11.3	19.6	8 29	23 51.31	-13 18.7	1.654	2.625	7.6	18.6
9 8	23 42.42	+15 35.2	1.748	2.704	8.4	19.4	9 8	23 42.76	-14 7.3	1.642	2.635	4.6	18.5
9 18	23 33.53	+15 9.6	1.713	2.689	6.3	19.2	9 18	23 33.53	-14 46.6	1.656	2.645	4.9	18.5
9 28	23 24.61	+14 25.6	1.705	2.675	6.7	19.2	9 28	23 24.73	-15 10.7	1.698	2.655	8.0	18.7
10 8	23 16.71	+13 29.3	1.722	2.660	9.2	19.3	10 8	23 17.33	-15 16.7	1.765	2.665	11.5	19.0
10 18	23 10.66	+12 28.0	1.765	2.645	12.4	19.5	10 18	23 12.01	-15 4.0	1.854	2.674	14.6	19.2
24497	2001 AE ₁₈		9 15.9 60°06	2°5/18.3 18			350449	1995 YC ₁₂		9 15.9 212°75	5°5/9.5 18		
8 9	0 1.87	+4 52.4	2.192	2.988	14.1	17.8	8 9	23 58.67	-14 41.2	2.059	2.917	12.7	20.8
8 19	23 57.00	+5 15.1	2.118	3.000	11.3	17.6	8 19	23 54.84	-16 11.0	1.989	2.912	9.8	20.7
8 29	23 50.29	+5 25.3	2.065	3.012	8.1	17.4	8 29	23 49.03	-17 44.8	1.942	2.908	7.1	20.5
9 8	23 42.25	+5 23.9	2.037	3.024	4.7	17.3	9 8	23 41.76	-19 14.6	1.922	2.903	5.5	20.4
9 18	23 33.62	+5 12.9	2.037	3.036	2.5	17.1	9 18	23 33.77	-20 32.4	1.929	2.899	6.4	20.4
9 28	23 25.23	+4 55.8	2.066	3.049	4.4	17.3	9 28	23 25.98	-21 31.5	1.963	2.893	9.0	20.6
10 8	23 17.91	+4 37.0	2.123	3.062	7.7	17.5	10 8	23 19.25	-22 8.0	2.023	2.888	11.9	20.8
10 18	23 12.25	+4 20.3	2.205	3.074	10.7	17.7	10 18	23 14.27	-22 21.2	2.103	2.882	14.5	20.9
118978	2000 WW ₁₉₆		9 15.9 300°00	5°5/10.3 18			169992	2002 TN ₂₄₇		9 15.9 50°05	2°7/13.6 18		
8 9	23 59.05	-16 5.8	2.016	2.875	12.8	19.7	8 9	0 0.66	-7 52.2	1.820	2.670	14.4	20.3
8 19	23 55.26	-17 3.2	1.934	2.858	10.1	19.5	8 19	23 56.47	-8 26.2	1.751	2.674	11.1	20.1
8 29	23 49.39	-18 2.7	1.874	2.840	7.3	19.3	8 29	23 50.13	-9 7.5	1.705	2.678	7.3	19.9
9 8	23 41.94	-18 57.4	1.840	2.823	5.6	19.1	9 8	23 42.25	-9 50.6	1.683	2.681	3.6	19.7
9 18	23 33.68	-19 40.5	1.832	2.805	6.3	19.1	9 18	23 33.66	-10 29.6	1.688	2.686	3.3	19.7
9 28	23 25.56	-20 6.0	1.851	2.788	8.9	19.3	9 28	23 25.38	-10 58.5	1.721	2.690	6.8	19.9
10 8	23 18.51	-20 10.8	1.894	2.771	12.0	19.4	10 8	23 18.36	-11 13.4	1.779	2.694	10.5	20.2
10 18	23 13.27	-19 54.4	1.959	2.754	14.8	19.6	10 18	23 13.27	-11 12.5	1.860	2.698	13.8	20.4
340251	2006 BB ₁₂₈		9 15.9 23°52	2°7/13.3 18			151441	2002 GT ₁₆		9 15.9 122°64	1°2/14.5 18		
8 9	23 52.20	-1 51.3	1.243	2.116	18.3	19.4	8 9	23 58.01	-4 12.6	2.515	3.343	11.6	20.6
8 19	23 50.70	-3 31.2	1.190	2.125	13.9	19.2	8 19	23 53.80	-4 49.9	2.444	3.354	8.9	20.5
8 29	23 46.64	-5 31.5	1.156	2.136	9.0	19.0	8 29	23 48.04	-5 35.0	2.396	3.365	5.8	20.3
9 8	23 40.73	-7 41.7	1.146	2.148	4.1	18.7	9 8	23 41.22	-6 23.9	2.375	3.375	2.6	20.1
9 18	23 34.01	-9 48.5	1.161	2.160	3.8	18.8	9 18	23 33.93	-7 12.3	2.384	3.385	1.7	20.0
9 28	23 27.71	-11 38.7	1.201	2.174	8.5	19.1	9 28	23 26.85	-7 55.7	2.421	3.395	4.7	20.3
10 8	23 22.95	-13 2.8	1.264	2.189	13.0	19.4	10 8	23 20.65	-8 30.1	2.487	3.404	7.8	20.5
10 18	23 20.48	-13 56.8	1.347	2.204	17.0	19.7	10 18	23 15.83	-8 53.2	2.577	3.413	10.5	20.7
7859	Lhasa		9 15.9 317°76	0°7/15.4 18			48775	1997 QL		9 15.9 263°41	4°4/20.3 18		
8 9	23 58.98	-2 39.7	1.709	2.552	15.5	17.4	8 9	23 59.89	+10 51.7	1.997	2.775	15.9	19.3
8 19	23 55.49	-2 54.3	1.623	2.540	12.1	17.2	8 19	23 55.91	+11 12.4	1.906	2.770	13.2	19.1
8 29	23 49.70	-3 20.9	1.558	2.529	8.1	16.9	8 29	23 49.85	+11 15.0	1.835	2.765	10.0	18.9
9 8	23 42.14	-3 55.7	1.517	2.517	3.6	16.7	9 8	23 42.19	+10 59.3	1.787	2.759	6.8	18.7
9 18	23 33.63	-4 33.6	1.503	2.506	1.4	16.5	9 18	23 33.67	+10 26.6	1.765	2.754	4.5	18.5
9 28	23 25.27	-5 8.3	1.515	2.496	6.0	16.8	9 28	23 25.26	+9 41.3	1.770	2.749	5.5	18.6
10 8	23 18.10	-5 34.0	1.552	2.485	10.4	17.0	10 8	23 17.90	+8 49.4	1.802	2.744	8.6	18.8
10 18	23 12.96	-5 46.8	1.612	2.476	14.3	17.2	10 18	23 12.34	+7 57.6	1.859	2.739	11.9	19.0
338737	2003 UK ₁₃₆		9 15.9 209°07	3°2/12.7 18			108059	2001 FF ₁₆₀		9 16.0 204°15	2°3/18.9 18		
8 9	0 4.08	-11 26.0	2.332	3.168	12.1	21.0	8 9	23 57.93	+8 49.4	2.350	3.131	13.7	21.1
8 19	23 58.72	-11 57.9	2.248	3.162	9.4	20.8	8 19	23 54.03	+8 17.6	2.254	3.126	11.1	20.9
8 29	23 51.45	-12 33.3	2.188	3.155	6.3	20.6	8 29	23 48.39	+7 28.1	2.180	3.121	8.1	20.7
9 8	23 42.81	-13 7.3	2.155	3.148	3.7	20.4	9 8	23 41.47	+6 22.7	2.131	3.116	4.8	20.5
9 18	23 33.49	-13 35.1	2.151	3.141	3.8	20.4	9 18	23 33.88	+5 5.1	2.110	3.109	2.4	20.3
9 28	23 24.35	-13 52.3	2.176	3.133	6.5	20.6	9 28	23 26.40	+3 41.3	2.119	3.103	4.2	20.5
10 8	23 16.23	-13 56.0	2.228	3.124	9.6	20.7	10 8	23 19.78	+2 17.8	2.156	3.096	7.5	20.7
10 18	23 9.77	-13 45.3	2.305	3.115	12.4	20.9	10 18	23 14.65	+1 0.8	2.220	3.088	10.7	20.9
205380	2001 BT ₃₁		9 15.9 272°18	4°8/25.7 18			150163	1997 ST ₂₆		9 16.0 350°79	1°2/15.3 18		
8 9	23 54.67	+23 51.0	4.606	5.248	9.2	19.8	8 9	23 57.33	-4 15.8	1.106	1.984	19.7	18.8
8 19	23 50.74	+24 23.7	4.496	5.240	8.1	19.7	8 19	23 55.26	-4 14.7	1.038	1.975	15.4	18.5
8 29	23 45.83	+24 45.0	4.406	5.232	6.9	19.6	8 29	23 50.08	-4 27.1	0.989	1.967	10.3	18.2
9 8	23 40.19	+24 54.1	4.340	5.224	5.8	19.5	9 8	23 42.48	-4 48.3	0.959	1.961	4.6	17.9
9 18	23 34.15	+24 50.9	4.300	5.216	5.0	19.5	9 18	23 33.62	-5 11.6	0.952	1.956	2.0	17.7
9 28	23 28.12	+24 36.3	4.287	5.208	4.8	19.5	9 28	23 25.07	-5 29.0	0.968	1.953	7.8	18.0
10 8	23 22.50	+24 12.1	4.302	5.200	5.3	19.5	10 8	23 18.33	-5 33.9	1.006	1.951	13.3	18.3
10 18	23 17.65	+23 41.1	4.344	5.192	6.3	19.6	10 18	23 14.42	-5 22.6	1.063	1.951	18.1	18.6
39974	1998 HO ₃		9 15.9 61°52	2°6/18.9 18			339147	2004 TY ₈		9 16.0 63°81	0°5/15.7 17		
8 9	23 55.93	+10 4.7	1.633	2.438	17.8	18.6	8 9	0 5.60	-0 13.3	0.904	1.775	23.7	20.8
8 19	23 53.02	+9 13.7	1.565	2.451	14.4	18.4	8 19	0 1.75	-0 41.2	0.864	1.795	18.3	20.6
8 29	23 47.93	+7 57.0	1.516	2.465	10.3	18.2	8 29	23 54.26	-1 31.8	0.841	1.816	12.2	20.3
9 8	23 41.26	+6 18.2	1.491	2.478	6.0	18.0	9 8	23 44.22	-2 37.4	0.836	1.837	5.4	20.1
9 18	23 33.89	+4 24.4	1.491	2.492	2.7	17.8	9 18	23 33.24	-3 47.0	0.854	1.859	1.6	19.9
9 28	23 26.86	+2 25.8	1.520	2.506	5.1	18.0	9 28	23 23.22	-4 48.4	0.895	1.880	8.1	20.4
10 8	23 21.13	+0 33.0	1.575	2.520	9.3	18.3	10 8	23 15.71	-5 32.3	0.957	1.901	13.9	20.8
10 18	23 17.37	-1 5.3	1.654	2.535	13.1	18.6	10 18	23 11.54	-5 54.3	1.038	1.923	18.7	21.2
14161	1998 SO ₁₄₅		9 15.9 23°29	1°6/14.8 18			305906	2009 FJ ₄₂		9 16.0 103°97	2°9/13.0 18		
8 9	23 59.12	-3 32.3	1.216	2.084	19.0	17.9	8 9	23 58.65	-7 5				