

EPHEMERIDES

9 5.9

9 6.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
516746	2009 <i>RE</i> ₁₉		9 5.9 343°79	8°3/ 1.4	18		396054	2013 <i>CD</i> ₄₄		9 6.0 323°29	2°4/ 3.7	18	
7 30	23 39.88	-29 46.8	1.790	2.627	15.2	19.7	7 30	23 21.08	-9 28.9	1.756	2.613	14.6	20.9
8 9	23 32.51	-29 52.4	1.716	2.617	12.6	19.5	8 9	23 17.98	-10 17.2	1.677	2.604	11.3	20.7
8 19	23 22.26	-29 47.3	1.664	2.608	10.0	19.3	8 19	23 12.68	-11 16.4	1.620	2.596	7.4	20.5
8 29	23 9.95	-29 23.6	1.636	2.600	8.4	19.2	8 29	23 5.72	-12 20.6	1.587	2.589	3.6	20.2
9 8	22 56.84	-28 35.7	1.635	2.592	8.7	19.2	9 8	22 57.93	-13 22.8	1.580	2.582	3.1	20.2
9 18	22 44.35	-27 22.0	1.661	2.586	10.9	19.3	9 18	22 50.28	-14 15.7	1.600	2.575	6.9	20.4
9 28	22 33.75	-25 45.2	1.712	2.580	13.7	19.5	9 28	22 43.78	-14 53.9	1.645	2.568	10.9	20.6
10 8	22 25.91	-23 50.6	1.787	2.575	16.5	19.7	10 8	22 39.24	-15 14.0	1.712	2.562	14.4	20.8
168205	2006 <i>JE</i> ₂₈		9 5.9 43°74	3°1/ 3.4	18		205097	1999 <i>TW</i> ₁₇₆		9 6.0 276°54	1°5/ 4.7	18	
7 30	23 23.97	-11 20.8	1.565	2.426	15.8	19.8	7 30	23 25.15	-8 18.6	1.903	2.744	14.3	20.8
8 9	23 20.24	-12 6.3	1.507	2.436	12.1	19.6	8 9	23 21.11	-8 45.5	1.805	2.723	11.2	20.5
8 19	23 14.13	-13 0.4	1.469	2.447	8.0	19.3	8 19	23 14.82	-9 22.6	1.729	2.701	7.4	20.3
8 29	23 6.30	-13 56.2	1.456	2.457	4.0	19.1	8 29	23 6.74	-10 6.0	1.678	2.680	3.4	20.0
9 8	22 57.76	-14 46.1	1.469	2.468	3.8	19.2	9 8	22 57.66	-10 49.7	1.653	2.658	2.1	19.9
9 18	22 49.60	-15 23.5	1.507	2.480	7.5	19.4	9 18	22 48.57	-11 28.1	1.657	2.636	6.2	20.1
9 28	22 42.89	-15 44.1	1.570	2.492	11.4	19.7	9 28	22 40.53	-11 55.6	1.686	2.613	10.4	20.3
10 8	22 38.37	-15 46.2	1.655	2.504	14.9	19.9	10 8	22 34.40	-12 9.0	1.739	2.591	14.1	20.5
47834	2000 <i>EN</i> ₁₁₄		9 5.9 302°04	13°5/ 28.1	18		185592	2008 <i>BR</i> ₃₅		9 6.0 6°19	1°4/ 4.6	18	
7 30	23 43.57	-36 1.3	1.464	2.302	18.0	17.4	7 30	23 21.44	-7 32.9	1.977	2.821	13.7	20.4
8 9	23 37.10	-37 5.4	1.377	2.266	15.9	17.1	8 9	23 17.92	-8 13.4	1.902	2.821	10.6	20.2
8 19	23 26.45	-37 57.0	1.309	2.230	14.1	16.9	8 19	23 12.45	-9 4.4	1.848	2.822	6.9	20.0
8 29	23 12.28	-38 21.4	1.262	2.193	13.5	16.8	8 29	23 5.56	-10 1.1	1.819	2.822	3.1	19.8
9 8	22 56.19	-38 5.1	1.237	2.156	14.5	16.7	9 8	22 57.99	-10 57.5	1.818	2.822	2.0	19.7
9 18	22 40.30	-37 1.6	1.235	2.120	17.0	16.8	9 18	22 50.59	-11 47.9	1.844	2.823	5.7	19.9
9 28	22 26.78	-35 12.2	1.254	2.083	20.1	16.9	9 28	22 44.25	-12 27.1	1.897	2.824	9.4	20.2
10 8	22 17.09	-32 46.1	1.291	2.047	23.2	17.0	10 8	22 39.65	-12 51.9	1.973	2.825	12.7	20.4
476006	2007 <i>RN</i> ₇₆		9 6.0 338°01	0°1/ 6.1	18 R		400681	2009 <i>PE</i> ₁₂		9 6.0 338°56	0°6/ 6.5	18	
7 30	23 20.90	-3 25.8	1.552	2.399	16.7	21.2	7 30	23 24.14	-4 42.8	1.869	2.702	14.8	20.1
8 9	23 18.09	-3 48.9	1.473	2.392	13.1	21.0	8 9	23 20.19	-4 30.3	1.783	2.694	11.7	19.9
8 19	23 12.88	-4 28.1	1.414	2.386	8.8	20.7	8 19	23 14.09	-4 27.9	1.718	2.685	7.9	19.7
8 29	23 5.83	-5 19.8	1.378	2.380	4.1	20.4	8 29	23 6.35	-4 33.5	1.678	2.678	3.8	19.4
9 8	22 57.86	-6 17.7	1.367	2.375	1.0	20.2	9 8	22 57.79	-4 43.7	1.664	2.670	0.9	19.2
9 18	22 50.03	-7 14.3	1.382	2.370	5.9	20.5	9 18	22 49.35	-4 54.5	1.677	2.664	5.1	19.5
9 28	22 43.48	-8 2.4	1.422	2.365	10.6	20.8	9 28	22 42.02	-5 1.8	1.716	2.658	9.2	19.7
10 8	22 39.08	-8 36.7	1.484	2.362	14.7	21.0	10 8	22 36.60	-5 2.2	1.780	2.652	12.8	19.9
163932	2003 <i>SD</i> ₃₁₀		9 6.0 301°77	0°3/ 6.3	18		295502	2008 <i>RM</i> ₅₁		9 6.0 303°54	1°7/ 9.2	18	
7 30	23 20.16	-1 53.8	1.678	2.516	16.0	20.3	7 30	23 14.99	+3 43.7	4.260	5.033	8.2	20.9
8 9	23 17.53	-2 28.5	1.578	2.492	12.7	20.0	8 9	23 11.92	+3 36.9	4.162	5.029	6.6	20.8
8 19	23 12.59	-3 21.9	1.499	2.468	8.7	19.7	8 19	23 7.98	+3 22.0	4.087	5.025	4.8	20.7
8 29	23 5.76	-4 30.9	1.443	2.444	4.1	19.4	8 29	23 3.41	+2 59.8	4.039	5.022	3.0	20.5
9 8	22 57.85	-5 49.3	1.413	2.420	0.9	19.1	9 8	22 58.54	+2 31.9	4.019	5.018	1.7	20.4
9 18	22 49.87	-7 9.1	1.410	2.397	5.9	19.4	9 18	22 53.72	+2 0.4	4.029	5.014	2.5	20.5
9 28	22 42.95	-8 21.7	1.432	2.373	10.7	19.6	9 28	22 49.31	+1 27.5	4.069	5.010	4.4	20.6
10 8	22 38.04	-9 19.9	1.476	2.350	14.9	19.8	10 8	22 45.62	+0 55.8	4.136	5.007	6.2	20.8
207371	2005 <i>LJ</i> ₃₃		9 6.0 69°34	0°9/ 6.9	18		510828	2013 <i>CL</i> ₆		9 6.0 274°92	0°1/ 5.9	18	
7 30	23 21.61	-0 50.5	1.931	2.754	14.8	20.9	7 30	23 20.84	-3 9.6	1.982	2.813	14.2	21.4
8 9	23 18.08	-1 17.5	1.853	2.756	11.7	20.7	8 9	23 17.51	-3 50.9	1.898	2.809	11.1	21.2
8 19	23 12.57	-1 59.8	1.796	2.759	8.0	20.4	8 19	23 12.23	-4 46.5	1.836	2.805	7.4	21.0
8 29	23 5.60	-2 54.3	1.763	2.762	3.9	20.2	8 29	23 5.49	-5 52.5	1.799	2.800	3.4	20.7
9 8	22 57.94	-3 55.8	1.758	2.765	1.0	20.0	9 8	22 58.02	-7 3.2	1.789	2.796	0.9	20.5
9 18	22 50.45	-4 58.1	1.780	2.767	4.8	20.3	9 18	22 50.67	-8 11.9	1.807	2.792	5.1	20.8
9 28	22 44.04	-5 55.1	1.829	2.770	8.8	20.5	9 28	22 44.33	-9 12.4	1.852	2.787	9.1	21.1
10 8	22 39.38	-6 41.7	1.902	2.773	12.2	20.7	10 8	22 39.68	-9 59.8	1.921	2.783	12.5	21.3
44987	1999 <i>VW</i> ₁₆₈		9 6.0 283°71	0°0/ 5.9	18		167848	2005 <i>CR</i> ₇₅		9 6.0 218°63	0°6/ 6.5	18	
7 30	23 24.93	-4 27.9	1.500	2.345	17.2	19.2	7 30	23 24.48	-2 50.1	2.006	2.828	14.4	20.8
8 9	23 21.44	-4 44.9	1.414	2.332	13.6	19.0	8 9	23 20.29	-3 4.8	1.921	2.825	11.3	20.6
8 19	23 15.28	-5 17.5	1.347	2.319	9.2	18.7	8 19	23 14.08	-3 32.3	1.856	2.821	7.7	20.3
8 29	23 7.00	-6 2.1	1.304	2.306	4.2	18.4	8 29	23 6.33	-4 9.8	1.817	2.817	3.7	20.1
9 8	22 57.57	-6 52.3	1.286	2.293	1.1	18.1	9 8	22 57.82	-4 52.7	1.805	2.812	0.8	19.9
9 18	22 48.20	-7 41.0	1.293	2.280	6.4	18.4	9 18	22 49.43	-5 35.9	1.821	2.808	4.9	20.2
9 28	22 40.19	-8 20.7	1.326	2.267	11.4	18.7	9 28	22 42.10	-6 14.2	1.865	2.803	8.8	20.4
10 8	22 34.54	-8 46.3	1.380	2.254	15.8	18.9	10 8	22 36.54	-6 43.2	1.932	2.798	12.3	20.6
469651	2004 <i>TU</i> ₁₄₄		9 6.0 321°08	2°1/ 4.2	17		431642	2008 <i>AR</i> ₃₄		9 6.0 297°75	2°6/ 4.1	18	
7 30	23 22.09	-10 22.6	1.790	2.646	14.4	21.0	7 30	23 23.01	-8 12.7	1.332	2.198	17.8	22.2
8 9	23 18.90	-10 43.3	1.693	2.619	11.3	20.7	8 9	23 20.46	-8 59.0	1.240	2.173	13.9	21.8
8 19	23 13.42	-11 12.6	1.616	2.592	7.5	20.5	8 19	23 14.98	-10 2.4	1.168	2.147	9.3	21.5
8 29	23 6.12	-11 46.2	1.564	2.567	3.6	20.2	8 29	23 7.03	-11 16.8	1.119	2.122	4.4	21.2
9 8	22 57.80	-12 18.2	1.538	2.541	2.7	20.1	9 8	22 57.60	-12 32.7	1.093	2.096	3.5	21.0
9 18	22 49.46	-12 42.8	1.538	2.516	6.7	20.2	9 18	22 48.05	-13 39.7	1.092	2.071	8.6	21.3
9 28	22 42.18	-12 55.2	1.564	2.492	10.9	20.4	9 28	22 39.91	-14 28.4	1.114	2.046	13.9	21.5
10 8	22 36.87	-12 52.5	1.611	2.469	14.8	20.6	10 8	22 34.40	-14 53.6	1.155	2.022	18.7	21.7
136924	1998 <i>KX</i> ₅		9 6.0 22°21	3°8/ 8.6	18		157427	2004 <i>TN</i> ₃₃₄		9 6.0 59°85	0°1/ 5.9	18	
7 30	23 21.05												

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
226290	2003 <i>BL</i> ₃₈		9 6.0 200°65	3°1/ 3.0	18		210445	2009 <i>BO</i> ₁		9 6.0 230°99	1°5/ 4.4	18	
7 30	23 24.33	-10 32.8	1.803	2.654	14.5	20.4	7 30	23 23.31	-7 49.5	2.220	3.054	12.7	21.4
8 9	23 20.42	-11 38.7	1.727	2.652	11.2	20.2	8 9	23 19.26	-8 35.8	2.129	3.044	9.8	21.2
8 19	23 14.28	-12 55.0	1.674	2.649	7.4	20.0	8 19	23 13.35	-9 32.3	2.062	3.034	6.5	21.0
8 29	23 6.45	-14 15.0	1.646	2.647	3.8	19.8	8 29	23 6.01	-10 34.5	2.021	3.023	2.9	20.7
9 8	22 57.79	-15 30.6	1.646	2.644	3.8	19.7	9 8	22 57.94	-11 36.7	2.008	3.011	2.1	20.7
9 18	22 49.32	-16 34.2	1.672	2.640	7.4	20.0	9 18	22 49.93	-12 33.2	2.023	2.999	5.6	20.9
9 28	22 42.04	-17 20.2	1.724	2.636	11.2	20.2	9 28	22 42.84	-13 18.8	2.066	2.987	9.1	21.1
10 8	22 36.76	-17 46.1	1.799	2.632	14.6	20.4	10 8	22 37.35	-13 50.3	2.134	2.974	12.3	21.2
264031	2009 <i>QV</i> ₃₀		9 6.0 32°59	10°7/20.3	17		28924	Jennanncsele		9 6.0 285°71	0°2/ 6.2	18	
7 30	23 19.65	+26 41.5	1.995	2.654	19.3	19.8	7 30	23 23.85	-3 42.1	1.683	2.521	16.0	18.8
8 9	23 16.78	+27 30.5	1.921	2.665	17.5	19.7	8 9	23 20.32	-3 59.2	1.593	2.507	12.6	18.6
8 19	23 11.83	+27 51.3	1.861	2.676	15.5	19.5	8 19	23 14.40	-4 31.0	1.524	2.493	8.6	18.3
8 29	23 5.33	+27 40.1	1.819	2.688	13.4	19.4	8 29	23 6.60	-5 14.4	1.478	2.479	4.0	18.0
9 8	22 58.07	+26 55.9	1.796	2.700	11.6	19.3	9 8	22 57.78	-6 3.8	1.458	2.465	0.9	17.7
9 18	22 50.99	+25 41.3	1.797	2.712	10.8	19.3	9 18	22 49.00	-6 52.9	1.464	2.451	5.8	18.0
9 28	22 45.03	+24 2.9	1.821	2.725	11.1	19.4	9 28	22 41.40	-7 34.9	1.496	2.437	10.4	18.3
10 8	22 40.92	+22 10.2	1.868	2.739	12.4	19.5	10 8	22 35.89	-8 4.8	1.551	2.423	14.5	18.5
6291	Renzetti		9 6.0 306°46	6°2/ 1.9	18		237288	2008 <i>XT</i> ₃₆		9 6.0 184°79	1°0/ 7.0	18	
7 30	23 29.11	-19 14.7	1.457	2.324	16.5	16.7	7 30	23 24.46	-1 15.4	2.062	2.877	14.3	21.4
8 9	23 25.02	-19 50.6	1.371	2.301	13.1	16.5	8 9	23 20.20	-1 30.3	1.979	2.877	11.3	21.2
8 19	23 17.88	-20 28.6	1.305	2.277	9.4	16.2	8 19	23 13.97	-1 58.6	1.916	2.877	7.8	21.0
8 29	23 8.28	-21 0.4	1.263	2.254	6.6	16.0	8 29	23 6.28	-2 38.0	1.879	2.877	3.9	20.7
9 8	22 57.32	-21 17.0	1.244	2.231	7.0	15.9	9 8	22 57.88	-3 24.1	1.869	2.876	1.1	20.5
9 18	22 46.44	-21 11.7	1.251	2.208	10.5	16.1	9 18	22 49.62	-4 11.8	1.888	2.875	4.7	20.8
9 28	22 37.15	-20 41.5	1.280	2.186	14.7	16.3	9 28	22 42.39	-4 55.7	1.934	2.873	8.5	21.0
10 8	22 30.57	-19 47.6	1.329	2.164	18.6	16.5	10 8	22 36.89	-5 31.3	2.004	2.872	11.9	21.2
78615	2002 <i>SH</i> ₅₉		9 6.0 146°72	4°4/ 1.2	18		152555	1975 <i>SD</i> ₁		9 6.0 347°85	2°7/ 9.2	18	
7 30	23 23.98	-16 21.0	2.097	2.950	12.7	19.1	7 30	23 17.68	+5 32.9	2.111	2.907	14.6	19.6
8 9	23 19.78	-17 31.1	2.031	2.956	9.8	18.9	8 9	23 14.96	+5 3.6	2.023	2.904	11.9	19.4
8 19	23 13.64	-18 45.1	1.990	2.961	6.7	18.8	8 19	23 10.49	+4 15.1	1.955	2.902	8.7	19.2
8 29	23 6.09	-19 56.1	1.974	2.965	4.6	18.6	8 29	23 4.71	+3 9.3	1.912	2.899	5.2	19.0
9 8	22 57.91	-20 57.2	1.986	2.970	5.2	18.7	9 8	22 58.28	+1 50.5	1.896	2.897	2.7	18.8
9 18	22 49.96	-21 43.0	2.026	2.974	7.8	18.9	9 18	22 51.95	+0 24.7	1.907	2.895	4.4	18.9
9 28	22 43.10	-22 10.1	2.091	2.978	10.7	19.0	9 28	22 46.51	-1 0.8	1.946	2.894	7.8	19.1
10 8	22 38.01	-22 17.5	2.178	2.981	13.4	19.2	10 8	22 42.61	-2 19.4	2.010	2.893	11.1	19.3
513741	2012 <i>UC</i> ₇₆		9 6.0 242°23	5°9/31.2	18		19484	Vanessaspini		9 6.0 118°25	2°9/ 3.5	18	
7 30	23 27.58	-21 22.4	2.044	2.897	13.0	21.7	7 30	23 25.14	-9 13.4	1.530	2.386	16.4	17.9
8 9	23 22.81	-22 21.8	1.967	2.886	10.3	21.5	8 9	23 21.31	-10 19.9	1.466	2.393	12.6	17.7
8 19	23 15.81	-23 21.6	1.912	2.875	7.6	21.3	8 19	23 14.98	-11 38.9	1.424	2.400	8.2	17.4
8 29	23 7.14	-24 14.6	1.883	2.863	6.0	21.2	8 29	23 6.80	-13 2.8	1.405	2.407	4.0	17.2
9 8	22 57.64	-24 53.6	1.881	2.851	6.7	21.3	9 8	22 57.77	-14 22.1	1.413	2.413	3.7	17.2
9 18	22 48.31	-25 13.5	1.905	2.839	9.2	21.4	9 18	22 49.08	-15 28.3	1.447	2.420	7.7	17.5
9 28	22 40.17	-25 11.9	1.955	2.826	12.1	21.5	9 28	22 41.84	-16 15.3	1.506	2.426	11.9	17.7
10 8	22 34.00	-24 49.1	2.026	2.813	14.8	21.7	10 8	22 36.90	-16 40.4	1.586	2.431	15.6	18.0
357050	2000 <i>UJ</i> ₁₃		9 6.0 19°16	5°6/11.9	18		427902	2005 <i>UT</i> ₁₂₆		9 6.0 299°06	0°7/ 6.9	16	
7 30	23 20.07	+11 14.0	1.929	2.697	16.7	20.0	7 30	23 18.21	-1 52.4	2.940	3.750	10.6	21.8
8 9	23 16.98	+11 27.4	1.847	2.700	14.1	19.8	8 9	23 14.89	-2 9.5	2.836	3.732	8.3	21.6
8 19	23 11.92	+11 18.9	1.784	2.703	11.1	19.6	8 19	23 10.22	-2 36.3	2.754	3.714	5.7	21.4
8 29	23 5.36	+10 48.0	1.743	2.706	8.0	19.4	8 29	23 4.54	-3 10.8	2.698	3.696	2.8	21.2
9 8	22 58.08	+9 56.8	1.727	2.710	5.8	19.3	9 8	22 58.33	-3 50.1	2.672	3.678	0.8	21.0
9 18	22 50.94	+8 50.1	1.736	2.714	6.1	19.3	9 18	22 52.13	-4 30.9	2.674	3.660	3.5	21.2
9 28	22 44.85	+7 34.9	1.772	2.719	8.6	19.5	9 28	22 46.53	-5 9.4	2.704	3.642	6.4	21.4
10 8	22 40.41	+6 19.0	1.833	2.723	11.6	19.7	10 8	22 42.04	-5 42.2	2.761	3.625	9.1	21.5
226486	2003 <i>SV</i> ₂₄₁		9 6.0 338°67	1°0/ 5.1	18		247409	2002 <i>CF</i> ₇₉		9 6.0 241°36	0°3/ 5.4	16	
7 30	23 21.81	-7 53.5	2.022	2.865	13.5	19.9	7 30	23 15.75	-7 2.6	4.513	5.330	7.0	20.4
8 9	23 18.22	-8 10.2	1.939	2.857	10.5	19.7	8 9	23 12.44	-7 19.0	4.422	5.326	5.4	20.3
8 19	23 12.69	-8 35.7	1.878	2.851	6.9	19.5	8 19	23 8.31	-7 39.6	4.355	5.322	3.6	20.2
8 29	23 5.70	-9 6.3	1.842	2.845	3.1	19.2	8 29	23 3.58	-8 2.7	4.317	5.319	1.6	20.0
9 8	22 58.01	-9 37.4	1.833	2.839	1.6	19.1	9 8	22 58.59	-8 26.4	4.309	5.315	0.6	19.9
9 18	22 50.46	-10 4.2	1.852	2.834	5.4	19.3	9 18	22 53.64	-8 48.7	4.330	5.311	2.6	20.1
9 28	22 43.92	-10 22.6	1.897	2.829	9.1	19.6	9 28	22 49.10	-9 7.7	4.381	5.307	4.6	20.2
10 8	22 39.10	-10 29.7	1.966	2.824	12.4	19.8	10 8	22 45.26	-9 22.0	4.459	5.303	6.3	20.4
399569	2003 <i>SO</i> ₁₉₁		9 6.0 20°29	7°0/13.6	15		389087	2008 <i>XY</i> ₄		9 6.0 288°53	1°6/ 7.2	18	
7 30	23 14.08	+14 29.5	1.203	2.006	23.1	20.2	7 30	23 25.69	-1 46.3	1.740	2.565	16.1	20.3
8 9	23 13.08	+14 21.2	1.162	2.034	19.4	20.0	8 9	23 21.71	-1 37.1	1.646	2.550	12.9	20.1
8 19	23 9.57	+13 36.3	1.136	2.063	15.2	19.9	8 19	23 15.33	-1 41.5	1.573	2.535	9.0	19.8
8 29	23 4.30	+12 16.2	1.129	2.095	11.0	19.8	8 29	23 7.04	-1 58.1	1.523	2.521	4.7	19.5
9 8	22 58.38	+10 28.0	1.143	2.129	7.6	19.7	9 8	22 57.72	-2 23.3	1.500	2.506	1.6	19.3
9 18	22 52.96	+8 23.0	1.180	2.164	7.4	19.8	9 18	22 48.41	-2 52.2	1.503	2.491	5.4	19.5
9 28	22 49.09	+6 14.9	1.242	2.200	10.1	20.0	9 28	22 40.26	-3 19.3	1.532	2.476	9.9	19.7
10 8	22 47.43	+4 16.5	1.326	2.238	13.6	20.3	10 8	22 34.18	-3 39.5	1.585	2.462	13.9	20.0
9694	Lycomedes		9 6.0 299°49	0°1/ 5.8	18 R		183886	2004 <i>CX</i> ₆₉		9 6.0 183°92	2°3/ 3.9	17	
7 30	23 15.90	-5 51.3	4.191	5.006	7.6	17.9							

EPHEMERIDES

9 6.0

9 6.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
50534	2000 <i>EY</i> ₁₂	9 6.0 26°10'	6°2'	1.2	18		358842	2008 <i>FD</i> ₅₄	9 6.0 50°76'	0°8'	5.3	18	
7 30	23 26.11	-19 50.5	1.530	2.401	15.7	17.6	7 30	23 21.52	-5 51.6	2.000	2.838	13.8	21.0
8 9	23 22.06	-20 40.4	1.477	2.408	12.2	17.4	8 9	23 17.91	-6 26.2	1.932	2.847	10.6	20.8
8 19	23 15.44	-21 30.6	1.445	2.416	8.8	17.2	8 19	23 12.43	-7 11.8	1.885	2.857	7.0	20.6
8 29	23 6.99	-22 12.6	1.436	2.424	6.4	17.1	8 29	23 5.60	-8 4.0	1.864	2.866	3.1	20.3
9 8	22 57.80	-22 38.8	1.452	2.433	7.0	17.2	9 8	22 58.18	-8 57.4	1.870	2.876	1.4	20.2
9 18	22 49.09	-22 44.1	1.492	2.442	9.8	17.3	9 18	22 51.00	-9 46.3	1.904	2.886	5.2	20.5
9 28	22 41.99	-22 26.8	1.556	2.452	13.2	17.6	9 28	22 44.87	-10 25.9	1.964	2.896	8.9	20.8
10 8	22 37.27	-21 48.4	1.641	2.463	16.2	17.8	10 8	22 40.44	-10 52.9	2.048	2.906	12.1	21.0
207352	2005 <i>JT</i> ₆₉	9 6.0 14°23'	0°5'	5.6	18		445004	2008 <i>GX</i> ₁₂₃	9 6.0 135°56'	0°9'	5.1	18	
7 30	23 21.49	-4 48.3	1.675	2.521	15.7	20.6	7 30	23 25.08	-8 2.7	2.362	3.191	12.3	21.9
8 9	23 18.31	-5 21.2	1.603	2.522	12.2	20.4	8 9	23 20.36	-8 19.9	2.286	3.197	9.5	21.7
8 19	23 12.92	-6 8.1	1.552	2.524	8.1	20.1	8 19	23 13.92	-8 44.2	2.233	3.203	6.2	21.6
8 29	23 5.88	-7 4.7	1.524	2.527	3.6	19.9	8 29	23 6.25	-9 12.4	2.207	3.209	2.8	21.3
9 8	22 58.06	-8 4.4	1.523	2.530	1.3	19.7	9 8	22 58.04	-9 40.3	2.209	3.214	1.4	21.2
9 18	22 50.47	-9 0.2	1.548	2.533	5.8	20.0	9 18	22 50.02	-10 4.3	2.240	3.219	4.8	21.5
9 28	22 44.11	-9 45.7	1.599	2.537	10.1	20.3	9 28	22 42.96	-10 20.8	2.298	3.225	8.1	21.7
10 8	22 39.74	-10 16.8	1.673	2.540	13.8	20.5	10 8	22 37.44	-10 27.6	2.382	3.229	11.0	21.9
399130	2014 <i>EW</i> ₁	9 6.0 185°65'	1°5'	7.6	18		512640	2016 <i>TT</i> ₄₉	9 6.0 28°32'	2°3'	3.9	18	
7 30	23 24.35	+0 31.4	2.233	3.036	13.7	22.0	7 30	23 23.79	-10 12.9	1.779	2.631	14.7	21.0
8 9	23 19.98	+0 15.1	2.146	3.036	10.9	21.9	8 9	23 19.97	-10 48.6	1.710	2.634	11.3	20.8
8 19	23 13.78	-0 15.0	2.080	3.036	7.6	21.6	8 19	23 13.96	-11 32.9	1.662	2.637	7.4	20.5
8 29	23 6.22	-0 57.0	2.040	3.035	4.0	21.4	8 29	23 6.35	-12 20.4	1.638	2.640	3.5	20.3
9 8	22 57.98	-1 46.8	2.028	3.033	1.5	21.2	9 8	22 58.01	-13 4.8	1.642	2.643	2.9	20.3
9 18	22 49.86	-2 39.6	2.044	3.031	4.3	21.4	9 18	22 49.93	-13 40.1	1.672	2.647	6.6	20.5
9 28	22 42.68	-3 30.2	2.089	3.029	7.9	21.7	9 28	22 43.09	-14 2.0	1.727	2.651	10.4	20.8
10 8	22 37.10	-4 13.8	2.159	3.026	11.1	21.9	10 8	22 38.21	-14 8.1	1.805	2.655	13.8	21.0
108155	2001 <i>HB</i> ₄	9 6.0 194°58'	6°7'	12.5	18		141984	2002 <i>PK</i> ₁₃₃	9 6.0 349°09'	1°5'	7.1	17	
7 30	23 24.33	+12 54.8	1.987	2.735	16.9	19.5	7 30	23 21.58	-1 30.2	1.195	2.053	19.9	19.8
8 9	23 20.33	+13 32.2	1.900	2.735	14.5	19.3	8 9	23 19.32	-1 29.5	1.124	2.047	15.9	19.6
8 19	23 14.22	+13 49.0	1.831	2.734	11.7	19.1	8 19	23 14.13	-1 49.2	1.070	2.042	11.0	19.3
8 29	23 6.49	+13 43.1	1.784	2.734	8.9	18.9	8 29	23 6.62	-2 26.5	1.038	2.038	5.6	19.0
9 8	22 57.92	+13 15.2	1.761	2.733	6.9	18.8	9 8	22 57.93	-3 15.4	1.028	2.034	1.6	18.7
9 18	22 49.43	+12 28.5	1.764	2.732	7.1	18.8	9 18	22 49.45	-4 7.5	1.041	2.032	6.6	19.0
9 28	22 41.99	+11 28.7	1.794	2.732	9.2	19.0	9 28	22 42.62	-4 53.9	1.078	2.031	12.0	19.3
10 8	22 36.39	+10 23.6	1.848	2.731	12.0	19.1	10 8	22 38.47	-5 27.4	1.134	2.030	16.8	19.6
396889	2004 <i>VK</i> ₄₁	9 6.0 30°65'	8°0'	17.1	18		343550	2010 <i>FR</i> ₂₅	9 6.0 93°94'	0°5'	5.6	18	
7 30	23 19.36	+22 27.1	2.395	3.070	16.1	20.8	7 30	23 22.83	-4 20.9	1.774	2.612	15.3	21.1
8 9	23 16.20	+22 46.1	2.304	3.071	14.3	20.7	8 9	23 19.25	-4 59.5	1.699	2.614	11.9	20.9
8 19	23 11.30	+22 41.7	2.229	3.072	12.3	20.5	8 19	23 13.52	-5 52.2	1.645	2.616	7.9	20.6
8 29	23 5.11	+22 11.6	2.175	3.074	10.2	20.4	8 29	23 6.17	-6 54.8	1.616	2.618	3.5	20.4
9 8	22 58.28	+21 16.1	2.144	3.075	8.6	20.3	9 8	22 58.05	-8 0.6	1.613	2.619	1.2	20.2
9 18	22 51.53	+19 58.2	2.138	3.077	8.0	20.3	9 18	22 50.14	-9 2.7	1.637	2.621	5.6	20.5
9 28	22 45.65	+18 23.5	2.158	3.078	8.8	20.3	9 28	22 43.40	-9 54.7	1.688	2.623	9.8	20.8
10 8	22 41.28	+16 39.9	2.204	3.080	10.6	20.4	10 8	22 38.60	-10 32.3	1.762	2.625	13.5	21.0
472148	2014 <i>CN</i> ₁₇	9 6.0 209°34'	1°9'	3.8	18		290224	2005 <i>SU</i> ₅₆	9 6.1 29°06'	0°4'	6.4	15	
7 30	23 22.06	-6 59.6	2.046	2.885	13.5	21.3	7 30	23 22.14	-2 47.0	1.173	2.035	20.0	20.6
8 9	23 18.45	-8 13.5	1.963	2.881	10.4	21.1	8 9	23 19.54	-3 6.8	1.119	2.045	15.6	20.4
8 19	23 12.89	-9 40.4	1.904	2.877	6.8	20.9	8 19	23 14.07	-3 46.4	1.082	2.057	10.5	20.1
8 29	23 5.86	-11 14.4	1.870	2.872	3.1	20.7	8 29	23 6.48	-4 40.9	1.067	2.069	4.9	19.8
9 8	22 58.10	-12 48.0	1.865	2.867	2.6	20.6	9 8	22 58.00	-5 42.1	1.075	2.082	1.0	19.6
9 18	22 50.43	-14 13.7	1.889	2.862	6.2	20.8	9 18	22 49.98	-6 40.8	1.107	2.096	6.6	20.0
9 28	22 43.75	-15 25.1	1.939	2.856	9.9	21.1	9 28	22 43.72	-7 28.4	1.162	2.111	11.8	20.4
10 8	22 38.77	-16 18.1	2.013	2.850	13.1	21.3	10 8	22 40.08	-7 59.6	1.238	2.126	16.2	20.7
235584	2004 <i>OY</i> ₁₂	9 6.0 39°17'	3°9'	31.6	18		307183	2002 <i>EM</i> ₈₅	9 6.1 205°58'	1°8'	4.5	18	
7 30	23 18.17	-16 46.8	2.531	3.387	10.7	19.5	7 30	23 28.16	-10 6.8	1.913	2.753	14.3	20.6
8 9	23 14.98	-17 59.7	2.475	3.401	8.2	19.4	8 9	23 23.26	-10 26.1	1.833	2.750	11.1	20.4
8 19	23 10.30	-19 15.0	2.444	3.415	5.7	19.3	8 19	23 16.13	-10 52.9	1.776	2.748	7.3	20.2
8 29	23 4.59	-20 27.1	2.440	3.429	4.0	19.2	8 29	23 7.35	-11 22.8	1.743	2.745	3.4	19.9
9 8	22 58.43	-21 30.4	2.464	3.444	4.6	19.2	9 8	22 57.78	-11 50.4	1.738	2.742	2.4	19.9
9 18	22 52.47	-22 20.5	2.515	3.459	6.7	19.4	9 18	22 48.41	-12 10.8	1.761	2.738	6.1	20.1
9 28	22 47.34	-22 54.5	2.593	3.474	9.1	19.6	9 28	22 40.24	-12 20.3	1.811	2.735	10.0	20.3
10 8	22 43.56	-23 11.5	2.693	3.489	11.3	19.8	10 8	22 34.06	-12 16.8	1.884	2.731	13.4	20.5
213491	2002 <i>GO</i> ₁₅	9 6.0 261°96'	0°3'	6.6	18		338488	2003 <i>HF</i> ₄₃	9 6.1 71°47'	4°5'	2.6	17	
7 30	23 14.24	-3 4.2	4.647	5.452	7.1	20.0	7 30	23 28.88	-15 32.8	1.570	2.429	15.9	20.7
8 9	23 11.30	-3 24.9	4.551	5.446	5.5	19.9	8 9	23 23.99	-16 18.9	1.520	2.447	12.2	20.5
8 19	23 7.58	-3 51.2	4.480	5.441	3.7	19.8	8 19	23 16.61	-17 8.8	1.491	2.465	8.3	20.3
8 29	23 3.30	-4 21.6	4.437	5.435	1.8	19.6	8 29	23 7.51	-17 55.0	1.487	2.483	5.0	20.2
9 8	22 58.74	-4 54.3	4.423	5.430	0.4	19.5	9 8	22 57.77	-18 30.0	1.509	2.501	5.2	20.2
9 18	22 54.23	-5 27.2	4.439	5.424	2.3	19.7	9 18	22 48.57	-18 48.4	1.557	2.519	8.4	20.4
9 28	22 50.09	-5 58.2	4.485	5.418	4.2	19.8	9 28	22 40.99	-18 47.8	1.629	2.537	12.0	20.7
10 8	22 46.61	-6 25.3	4.558	5.413	6.0	19.9	10 8	22 35.76	-18 28.5	1.724	2.555	15.2	21.0
365187	2009 <i>FA</i> ₂₇	9 6.0 112°79'	1°5'	7.2	17		169571	2002 <i>FW</i> ₁₁	9 6.1 144°63'	3°3'	3.8	17	
7 30	23 28.11	-1 3.0											

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
326665	2002 <i>TH</i> ₃₆₆		9 6.1 12°86'	2.4/ 4.2	16		241965	2002 <i>FP</i> ₃₆		9 6.1 227°19'	2.9/ 9.4	18	
7 30	23 13.60	- 5 33.4	0.901	1.800	21.3	19.7	7 30	23 22.46	+ 6 37.9	2.226	3.004	14.5	22.0
8 9	23 13.59	- 6 40.2	0.855	1.805	16.4	19.4	8 9	23 18.69	+ 6 6.9	2.124	2.993	11.9	21.8
8 19	23 10.44	- 8 10.3	0.826	1.812	10.7	19.1	8 19	23 13.07	+ 5 16.3	2.042	2.981	8.8	21.6
8 29	23 4.93	- 9 53.3	0.816	1.821	4.7	18.9	8 29	23 6.01	+ 4 7.2	1.986	2.969	5.4	21.4
9 8	22 58.39	-11 34.9	0.827	1.832	3.4	18.8	9 8	22 58.17	+ 2 43.6	1.957	2.956	3.0	21.2
9 18	22 52.34	-13 1.0	0.860	1.845	9.0	19.2	9 18	22 50.35	+ 1 11.3	1.956	2.943	4.5	21.3
9 28	22 48.19	-14 1.4	0.912	1.860	14.4	19.6	9 28	22 43.38	- 0 22.4	1.985	2.929	8.0	21.5
10 8	22 46.84	-14 31.6	0.983	1.876	19.0	19.9	10 8	22 37.98	- 1 50.2	2.039	2.915	11.3	21.7
54168	2000 <i>HX</i> ₅₆		9 6.1 237°46'	3.9/ 2.5	18		512741	2016 <i>UK</i> ₂₉		9 6.1 33°46'	1.0/ 6.9	18	
7 30	23 25.73	-13 12.2	1.704	2.561	15.0	19.6	7 30	23 23.83	- 2 18.4	1.567	2.405	17.0	20.7
8 9	23 21.73	-14 10.9	1.628	2.555	11.6	19.4	8 9	23 20.23	- 2 23.6	1.500	2.412	13.4	20.5
8 19	23 15.32	-15 17.8	1.573	2.548	7.8	19.2	8 19	23 14.26	- 2 44.1	1.454	2.421	9.1	20.2
8 29	23 7.05	-16 25.8	1.544	2.542	4.5	19.0	8 29	23 6.55	- 3 16.9	1.430	2.429	4.5	20.0
9 8	22 57.87	-17 26.6	1.540	2.535	4.7	19.0	9 8	22 58.06	- 3 56.7	1.432	2.439	1.1	19.8
9 18	22 48.86	-18 12.9	1.564	2.527	8.2	19.2	9 18	22 49.87	- 4 37.4	1.460	2.448	5.5	20.1
9 28	22 41.15	-18 39.9	1.612	2.520	12.0	19.4	9 28	22 43.06	- 5 12.8	1.513	2.459	9.9	20.4
10 8	22 35.60	-18 45.9	1.681	2.512	15.5	19.6	10 8	22 38.41	- 5 38.1	1.589	2.469	13.7	20.7
401283	2012 <i>DN</i> ₁₁		9 6.1 133°46'	3.0/ 9.3	18		399886	2005 <i>WK</i> ₂₄		9 6.1 115°33'	6.2/ 14.6	18	
7 30	23 22.89	+ 4 25.5	2.363	3.147	13.6	21.1	7 30	23 22.77	+17 35.2	2.727	3.420	13.9	21.3
8 9	23 18.77	+ 4 34.5	2.277	3.149	11.1	21.0	8 9	23 18.47	+17 57.2	2.646	3.436	12.1	21.2
8 19	23 12.94	+ 4 29.3	2.212	3.152	8.1	20.8	8 19	23 12.64	+18 0.7	2.584	3.451	10.0	21.1
8 29	23 5.87	+ 4 10.7	2.171	3.154	5.1	20.6	8 29	23 5.71	+17 44.8	2.545	3.466	8.0	21.0
9 8	22 58.18	+ 3 41.1	2.158	3.156	3.1	20.5	9 8	22 58.27	+17 10.2	2.530	3.480	6.5	20.9
9 18	22 50.61	+ 3 4.0	2.174	3.158	4.4	20.6	9 18	22 50.97	+16 19.7	2.544	3.494	6.2	20.9
9 28	22 43.91	+ 2 23.9	2.217	3.160	7.3	20.8	9 28	22 44.48	+15 17.8	2.584	3.508	7.4	21.0
10 8	22 38.70	+ 1 45.6	2.286	3.162	10.2	21.0	10 8	22 39.34	+14 10.1	2.651	3.522	9.2	21.2
81058	2000 <i>EM</i> ₆₆		9 6.1 104°62'	1.3/ 4.9	17		125139	2001 <i>UD</i> ₆₃		9 6.1 261°62'	1.9/ 7.7	18	
7 30	23 26.11	- 6 25.9	1.657	2.500	16.0	19.9	7 30	23 23.78	+ 0 48.3	1.698	2.520	16.6	19.8
8 9	23 21.83	- 7 7.5	1.594	2.512	12.3	19.7	8 9	23 20.22	+ 0 36.8	1.613	2.513	13.3	19.6
8 19	23 15.23	- 8 1.7	1.551	2.524	8.1	19.4	8 19	23 14.33	+ 0 7.3	1.548	2.507	9.4	19.4
8 29	23 6.95	- 9 3.2	1.533	2.536	3.6	19.2	8 29	23 6.65	- 0 38.1	1.506	2.501	5.0	19.1
9 8	22 57.94	-10 4.6	1.542	2.547	1.9	19.1	9 8	22 58.03	- 1 34.7	1.489	2.495	1.9	18.9
9 18	22 49.27	-10 59.0	1.578	2.559	6.2	19.4	9 18	22 49.51	- 2 35.9	1.500	2.488	5.3	19.1
9 28	22 41.99	-11 40.6	1.639	2.569	10.4	19.7	9 28	22 42.18	- 3 34.3	1.536	2.482	9.7	19.3
10 8	22 36.84	-12 6.0	1.724	2.580	14.0	19.9	10 8	22 36.90	- 4 23.5	1.596	2.476	13.7	19.6
26479	2000 <i>AE</i> ₁₉₈		9 6.1 73°12'	2.1/ 8.3	18		317516	2002 <i>TN</i> ₈₇		9 6.1 12°47'	1.7/ 5.1	16	
7 30	23 22.79	+ 3 12.7	1.853	2.660	16.0	17.7	7 30	23 18.43	- 8 36.5	0.829	1.733	22.2	19.3
8 9	23 18.95	+ 2 41.9	1.792	2.682	12.7	17.6	8 9	23 17.55	- 8 37.7	0.787	1.739	17.2	19.0
8 19	23 13.14	+ 1 52.6	1.751	2.704	8.9	17.4	8 19	23 13.17	- 8 54.1	0.761	1.747	11.4	18.7
8 29	23 5.95	+ 0 47.9	1.734	2.726	4.9	17.2	8 29	23 6.20	- 9 19.1	0.752	1.757	5.0	18.4
9 8	22 58.19	- 0 26.6	1.744	2.748	2.1	17.0	9 8	22 58.18	- 9 43.6	0.764	1.770	2.6	18.3
9 18	22 50.76	- 1 44.0	1.781	2.770	4.7	17.3	9 18	22 50.81	- 9 59.0	0.796	1.785	8.5	18.7
9 28	22 44.51	- 2 57.3	1.846	2.791	8.4	17.5	9 28	22 45.65	- 9 59.2	0.848	1.802	14.1	19.1
10 8	22 40.08	- 4 0.4	1.935	2.812	11.8	17.8	10 8	22 43.62	- 9 41.4	0.917	1.822	18.9	19.5
365316	2009 <i>SC</i> ₇₀		9 6.1 69°01'	2.4/ 9.1	18		156133	2001 <i>TV</i> ₂₃		9 6.1 304°64'	1.3/ 5.1	18	
7 30	23 19.22	+ 4 55.3	2.319	3.109	13.6	21.4	7 30	23 24.47	- 7 21.4	1.483	2.338	16.9	20.3
8 9	23 15.97	+ 4 28.8	2.234	3.113	11.0	21.2	8 9	23 21.21	- 7 40.9	1.396	2.321	13.2	20.0
8 19	23 11.10	+ 3 45.7	2.171	3.116	8.0	21.0	8 19	23 15.27	- 8 13.3	1.330	2.305	8.9	19.7
8 29	23 5.03	+ 2 47.7	2.133	3.120	4.8	20.8	8 29	23 7.17	- 8 54.3	1.286	2.289	4.0	19.4
9 8	22 58.40	+ 1 38.8	2.122	3.123	2.5	20.7	9 8	22 57.90	- 9 37.3	1.267	2.273	2.0	19.2
9 18	22 51.90	+ 0 24.1	2.139	3.127	4.1	20.8	9 18	22 48.67	-10 14.9	1.273	2.257	7.0	19.5
9 28	22 46.24	- 0 50.1	2.185	3.131	7.3	21.0	9 28	22 40.79	-10 40.6	1.304	2.242	11.9	19.8
10 8	22 42.00	- 1 58.4	2.256	3.134	10.3	21.2	10 8	22 35.29	-10 50.5	1.356	2.227	16.2	20.0
385826	2006 <i>GW</i> ₂₈		9 6.1 150°68'	1.3/ 4.8	16		474060	2016 <i>HB</i> ₂₁		9 6.1 114°92'	1.4/ 5.0	17	
7 30	23 25.16	- 7 43.2	1.963	2.801	14.1	22.3	7 30	23 29.61	- 7 21.0	1.454	2.302	17.6	21.7
8 9	23 20.83	- 8 17.4	1.889	2.805	10.8	22.1	8 9	23 24.88	- 7 50.4	1.392	2.312	13.6	21.5
8 19	23 14.46	- 9 1.4	1.837	2.809	7.1	21.9	8 19	23 17.44	- 8 32.5	1.350	2.323	9.0	21.3
8 29	23 6.59	- 9 50.8	1.810	2.812	3.2	21.7	8 29	23 8.02	- 9 21.5	1.331	2.333	4.0	21.0
9 8	22 58.03	-10 39.7	1.811	2.816	1.9	21.6	9 8	22 57.74	-10 10.0	1.338	2.343	2.1	20.9
9 18	22 49.69	-11 22.6	1.840	2.819	5.7	21.8	9 18	22 47.88	-10 50.8	1.371	2.353	6.9	21.3
9 28	22 42.47	-11 54.8	1.895	2.822	9.5	22.1	9 28	22 39.66	-11 18.2	1.430	2.362	11.5	21.5
10 8	22 37.09	-12 13.3	1.974	2.824	12.8	22.3	10 8	22 33.95	-11 29.4	1.510	2.371	15.4	21.8
518634	2008 <i>GB</i> ₁₄₉		9 6.1 83°07'	2.0/ 4.4	17		34572	2000 <i>SY</i> ₃₁₀		9 6.1 296°28'	8.2/ 12.3	18	R
7 30	23 26.89	- 8 24.9	1.525	2.377	16.7	22.0	7 30	23 26.64	+12 44.5	1.734	2.491	18.8	17.1
8 9	23 22.60	- 9 5.3	1.467	2.390	12.8	21.8	8 9	23 22.60	+13 52.9	1.644	2.482	16.2	16.9
8 19	23 15.81	- 9 57.1	1.429	2.404	8.4	21.6	8 19	23 16.07	+14 40.9	1.571	2.474	13.3	16.7
8 29	23 7.22	-10 54.1	1.415	2.418	3.8	21.3	8 29	23 7.52	+15 4.7	1.519	2.466	10.4	16.5
9 8	22 57.90	-11 48.4	1.428	2.431	2.7	21.3	9 8	22 57.82	+15 3.0	1.490	2.458	8.4	16.4
9 18	22 49.00	-12 33.2	1.466	2.445	6.9	21.6	9 18	22 48.09	+14 37.5	1.487	2.450	8.6	16.4
9 28	22 41.62	-13 3.0	1.530	2.458	11.2	21.9	9 28	22 39.53	+13 53.7	1.508	2.442	10.8	16.5
10 8	22 36.56	-13 15.6	1.616	2.472	14.8	22.1	10 8	22 33.13	+12 59.8	1.552	2.435	13.8	16.7
45407	2000 <i>AJ</i> ₁₄₂		9 6.1 233°18'	1.1/ 4.8	18		96060	3103 <i>P-L</i>		9 6.1 33			

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
44004	1997 SS ₃		9 6.1 332°94	5°3/ 2.4 18			323695	2005 GY ₉₃		9 6.1 65°41	10°5/18.6 17		
7 30	23 22.46	-15 8.7	1.212	2.098	17.9	17.9	7 30	23 21.28	+25 2.9	1.484	2.187	23.5	20.0
8 9	23 20.19	-15 51.5	1.139	2.081	14.0	17.6	8 9	23 18.61	+25 9.8	1.417	2.204	20.9	19.8
8 19	23 14.85	-16 42.2	1.085	2.065	9.6	17.3	8 19	23 13.37	+24 37.8	1.364	2.221	17.8	19.6
8 29	23 7.04	-17 32.1	1.052	2.050	5.9	17.0	8 29	23 6.22	+23 23.0	1.328	2.238	14.6	19.5
9 8	22 57.94	-18 10.9	1.041	2.036	6.2	17.0	9 8	22 58.22	+21 27.0	1.312	2.255	11.8	19.4
9 18	22 49.01	-18 30.2	1.054	2.024	10.3	17.2	9 18	22 50.57	+18 57.4	1.319	2.273	10.5	19.4
9 28	22 41.77	-18 24.9	1.088	2.012	15.0	17.4	9 28	22 44.44	+16 7.7	1.352	2.290	11.5	19.5
10 8	22 37.35	-17 54.3	1.140	2.002	19.3	17.7	10 8	22 40.68	+13 13.9	1.409	2.307	14.0	19.7
155843	2000 YL ₁₀₀		9 6.1 257°93	1°8/ 8.3 18			262615	2006 VE ₁₅₁		9 6.1 245°91	1°1/ 5.1 18		
7 30	23 19.46	+ 3 26.3	2.453	3.247	12.9	21.0	7 30	23 25.55	- 6 3.4	1.720	2.560	15.6	21.6
8 9	23 16.19	+ 2 49.7	2.351	3.234	10.4	20.8	8 9	23 21.65	- 6 41.6	1.632	2.548	12.2	21.3
8 19	23 11.30	+ 1 56.9	2.271	3.221	7.4	20.6	8 19	23 15.35	- 7 33.7	1.564	2.536	8.1	21.1
8 29	23 5.18	+ 0 49.8	2.217	3.208	4.2	20.3	8 29	23 7.17	- 8 35.2	1.522	2.524	3.6	20.8
9 8	22 58.42	- 0 27.5	2.191	3.195	1.8	20.1	9 8	22 57.97	- 9 39.3	1.506	2.511	1.8	20.6
9 18	22 51.67	- 1 49.7	2.193	3.181	4.0	20.3	9 18	22 48.83	-10 38.4	1.517	2.498	6.4	20.9
9 28	22 45.67	- 3 10.7	2.225	3.167	7.3	20.5	9 28	22 40.89	-11 26.0	1.554	2.485	10.8	21.1
10 8	22 41.01	- 4 24.6	2.282	3.154	10.5	20.7	10 8	22 35.04	-11 57.5	1.613	2.471	14.8	21.3
485775	2012 CK ₄₀		9 6.1 171°61	1°1/ 7.3 18			476908	2008 WF ₄₀		9 6.1 242°97	2°7/ 3.4 18		
7 30	23 23.88	- 1 41.2	2.507	3.313	12.3	21.7	7 30	23 24.96	-11 15.2	2.053	2.897	13.3	22.3
8 9	23 19.42	- 1 42.2	2.421	3.314	9.7	21.6	8 9	23 20.79	-12 2.9	1.965	2.885	10.3	22.1
8 19	23 13.34	- 1 53.4	2.357	3.315	6.7	21.4	8 19	23 14.56	-12 58.8	1.899	2.873	6.8	21.9
8 29	23 6.06	- 2 13.0	2.320	3.316	3.4	21.2	8 29	23 6.73	-13 57.7	1.860	2.860	3.5	21.7
9 8	22 58.22	- 2 37.9	2.311	3.317	1.1	21.0	9 8	22 58.09	-14 53.1	1.848	2.846	3.3	21.6
9 18	22 50.50	- 3 4.9	2.330	3.317	3.9	21.2	9 18	22 49.51	-15 39.1	1.864	2.833	6.6	21.8
9 28	22 43.62	- 3 30.0	2.379	3.317	7.2	21.4	9 28	22 41.95	-16 11.0	1.906	2.819	10.2	22.0
10 8	22 38.16	- 3 50.1	2.453	3.318	10.1	21.6	10 8	22 36.18	-16 26.2	1.972	2.804	13.5	22.2
178529	1999 TG ₂₈₆		9 6.1 325°72	0°8/ 6.5 18			84492	2002 TF ₂₈₁		9 6.1 323°79	3°8/ 8.7 18		
7 30	23 25.21	- 4 46.6	1.215	2.076	19.5	19.4	7 30	23 22.27	+ 2 32.0	1.308	2.144	19.8	18.7
8 9	23 22.32	- 4 28.3	1.135	2.061	15.5	19.1	8 9	23 19.83	+ 2 55.6	1.224	2.130	16.2	18.5
8 19	23 16.31	- 4 24.4	1.073	2.046	10.7	18.8	8 19	23 14.54	+ 2 58.1	1.158	2.116	11.9	18.2
8 29	23 7.75	- 4 32.6	1.031	2.033	5.2	18.4	8 29	23 6.93	+ 2 39.3	1.112	2.103	7.2	17.9
9 8	22 57.78	- 4 48.0	1.013	2.020	1.2	18.1	9 8	22 58.02	+ 2 2.4	1.089	2.091	3.9	17.6
9 18	22 47.87	- 5 4.5	1.018	2.008	7.0	18.5	9 18	22 49.11	+ 1 13.5	1.089	2.079	6.6	17.8
9 28	22 39.61	- 5 15.5	1.046	1.997	12.6	18.7	9 28	22 41.66	+ 0 21.3	1.113	2.068	11.5	18.0
10 8	22 34.19	- 5 15.9	1.095	1.987	17.5	19.0	10 8	22 36.77	- 0 25.4	1.158	2.058	16.2	18.3
44871	1999 UR ₃₈		9 6.1 70°76	5°8/10.9 18			477746	2010 UL ₉		9 6.1 169°72	8°4/25.5 18		
7 30	23 25.04	+ 9 10.7	1.440	2.235	20.3	18.0	7 30	23 31.54	-39 0.1	2.947	3.756	10.6	22.0
8 9	23 21.45	+ 9 30.6	1.373	2.246	16.9	17.8	8 9	23 25.27	-40 0.7	2.900	3.760	9.3	21.9
8 19	23 15.23	+ 9 24.5	1.324	2.258	13.0	17.6	8 19	23 17.16	-40 50.7	2.877	3.762	8.5	21.9
8 29	23 7.06	+ 8 51.9	1.295	2.269	8.9	17.4	8 29	23 7.76	-41 24.0	2.878	3.765	8.4	21.9
9 8	22 57.98	+ 7 55.8	1.290	2.281	6.1	17.3	9 8	22 57.88	-41 36.4	2.905	3.767	9.0	21.9
9 18	22 49.20	+ 6 43.2	1.310	2.293	6.9	17.4	9 18	22 48.36	-41 26.1	2.956	3.769	10.2	22.0
9 28	22 41.95	+ 5 23.6	1.354	2.305	10.3	17.6	9 28	22 40.00	-40 53.5	3.030	3.770	11.5	22.1
10 8	22 37.08	+ 4 6.8	1.422	2.316	14.1	17.9	10 8	22 33.42	-40 1.1	3.123	3.771	12.7	22.2
435089	2007 CJ ₂₈		9 6.1 168°12	0°8/ 6.8 17			359334	2009 QV ₅		9 6.1 267°71	4°2/11.3 18		
7 30	23 26.69	- 1 50.0	1.954	2.770	14.9	22.9	7 30	23 15.99	+12 8.0	1.685	2.467	18.3	19.3
8 9	23 22.05	- 2 6.9	1.874	2.774	11.8	22.7	8 9	23 14.05	+11 8.4	1.615	2.481	15.1	19.2
8 19	23 15.32	- 2 37.6	1.815	2.777	8.0	22.5	8 19	23 10.09	+ 9 38.8	1.564	2.496	11.5	19.0
8 29	23 7.03	- 3 19.3	1.781	2.780	3.9	22.2	8 29	23 4.67	+ 7 41.6	1.535	2.511	7.5	18.8
9 8	22 57.99	- 4 7.1	1.775	2.782	1.0	22.0	9 8	22 58.60	+ 5 24.1	1.531	2.527	4.5	18.6
9 18	22 49.13	- 4 55.8	1.797	2.783	4.9	22.3	9 18	22 52.79	+ 2 56.5	1.556	2.544	5.2	18.7
9 28	22 41.41	- 5 39.5	1.846	2.785	8.9	22.6	9 28	22 48.13	+ 0 31.0	1.607	2.561	8.7	19.0
10 8	22 35.55	- 6 13.8	1.920	2.785	12.4	22.8	10 8	22 45.28	- 1 41.8	1.685	2.580	12.2	19.2
100114	1993 FQ ₈₂		9 6.1 47°31	2°1/ 3.7 18			402833	2007 FB ₄₅		9 6.1 69°07	1°7/ 4.4 18		
7 30	23 22.04	-11 38.8	2.417	3.259	11.6	19.7	7 30	23 24.88	-10 23.8	2.216	3.055	12.6	21.2
8 9	23 18.05	-12 10.5	2.344	3.263	8.9	19.5	8 9	23 20.32	-10 43.0	2.148	3.065	9.7	21.0
8 19	23 12.43	-12 47.5	2.294	3.267	5.8	19.3	8 19	23 13.97	-11 8.0	2.103	3.075	6.4	20.8
8 29	23 5.64	-13 25.7	2.270	3.271	2.9	19.2	8 29	23 6.36	-11 35.1	2.084	3.085	3.0	20.6
9 8	22 58.34	-14 0.5	2.275	3.275	2.6	19.1	9 8	22 58.21	-11 59.8	2.092	3.095	2.2	20.6
9 18	22 51.22	-14 27.9	2.308	3.279	5.4	19.3	9 18	22 50.33	-12 18.2	2.130	3.106	5.3	20.8
9 28	22 44.99	-14 44.8	2.368	3.284	8.4	19.5	9 28	22 43.48	-12 27.3	2.194	3.116	8.6	21.1
10 8	22 40.22	-14 49.6	2.453	3.288	11.1	19.7	10 8	22 38.27	-12 25.3	2.282	3.127	11.5	21.3
429690	2011 HG ₄₃		9 6.1 49°84	6°9/30.9 17			507120	2009 SC ₂₆₂		9 6.1 97°36	3°5/ 9.1 17		
7 30	23 25.65	-20 19.6	1.607	2.475	15.1	20.9	7 30	23 26.74	+ 4 44.3	1.673	2.473	17.7	21.1
8 9	23 21.79	-21 40.7	1.548	2.477	11.9	20.7	8 9	23 22.32	+ 4 44.3	1.607	2.490	14.3	20.9
8 19	23 15.39	-23 3.2	1.512	2.480	8.8	20.6	8 19	23 15.58	+ 4 24.1	1.560	2.506	10.4	20.7
8 29	23 7.11	-24 17.7	1.499	2.482	6.9	20.5	8 29	23 7.17	+ 3 45.0	1.536	2.522	6.3	20.5
9 8	22 58.00	-25 14.7	1.512	2.484	7.8	20.5	9 8	22 58.03	+ 2 51.5	1.538	2.538	3.5	20.4
9 18	22 49.22	-25 47.8	1.550	2.486	10.6	20.7	9 18	22 49.22	+ 1 49.8	1.566	2.554	5.4	20.6
9 28	22 41.95	-25 54.3	1.610	2.489	13.8	20.9	9 28	22 41.78	+ 0 47.4	1.622	2.569	9.2	20.8
10 8	22 36.98	-25 35.3	1.691	2.491	16.7	21.1	10 8	22 36.46	- 0 8.7	1.701	2.583	12.8	21.1
384961	2012 TA ₁₅₁		9 6.1 263°82	0°9/ 5.4 18			251981	2000 CC ₅₇					

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
309615	2008 CV ₉		9 6.1 211°95	0°5/ 5.5 18			212823	2007 UW ₁₉		9 6.1 191°40	0°5/ 6.6 18		
7 30	23 22.99	- 5 32.0	2.302	3.128	12.6	22.0	7 30	23 23.25	- 2 20.8	1.913	2.739	14.8	21.1
8 9	23 18.95	- 6 2.3	2.216	3.125	9.8	21.8	8 9	23 19.48	- 2 43.4	1.833	2.739	11.7	20.9
8 19	23 13.15	- 6 42.8	2.152	3.121	6.5	21.6	8 19	23 13.68	- 3 20.0	1.774	2.739	7.9	20.7
8 29	23 6.04	- 7 30.0	2.115	3.116	2.9	21.4	8 29	23 6.34	- 4 7.5	1.739	2.739	3.8	20.4
9 8	22 58.30	- 8 19.3	2.106	3.112	1.1	21.2	9 8	22 58.25	- 5 0.9	1.731	2.738	0.8	20.2
9 18	22 50.66	- 9 5.7	2.125	3.107	4.7	21.5	9 18	22 50.32	- 5 54.2	1.751	2.738	5.0	20.5
9 28	22 43.90	- 9 44.8	2.172	3.102	8.2	21.7	9 28	22 43.48	- 6 41.6	1.798	2.738	9.0	20.8
10 8	22 38.67	-10 13.2	2.244	3.097	11.3	21.9	10 8	22 38.44	- 7 18.5	1.869	2.737	12.5	21.0
404097	2012 FN ₃₃		9 6.1 345°44	1°9/ 7.9 18			401696	2013 HP ₂₆		9 6.1 174°84	5°1/ 31.0 18		
7 30	23 23.16	- 0 1.2	2.215	3.023	13.6	20.9	7 30	23 23.85	-21 1.7	2.423	3.274	11.3	21.2
8 9	23 19.14	+ 0 9.7	2.129	3.021	10.9	20.7	8 9	23 19.56	-22 2.2	2.356	3.275	8.8	21.0
8 19	23 13.31	+ 0 8.7	2.063	3.018	7.7	20.5	8 19	23 13.51	-23 2.7	2.313	3.276	6.5	20.9
8 29	23 6.13	- 0 2.9	2.023	3.016	4.3	20.3	8 29	23 6.19	-23 57.2	2.297	3.277	5.1	20.8
9 8	22 58.28	- 0 22.5	2.010	3.014	1.9	20.1	9 8	22 58.31	-24 40.0	2.308	3.277	5.8	20.9
9 18	22 50.55	- 0 46.5	2.025	3.012	4.3	20.3	9 18	22 50.62	-25 7.0	2.346	3.277	7.8	21.0
9 28	22 43.73	- 1 10.7	2.067	3.011	7.8	20.5	9 28	22 43.90	-25 16.1	2.410	3.277	10.3	21.1
10 8	22 38.49	- 1 31.1	2.135	3.010	10.9	20.7	10 8	22 38.75	-25 7.1	2.497	3.277	12.5	21.3
435667	2008 SY ₂₉₂		9 6.1 186°12	5°8/ 12.9 18			51534	2001 FQ ₁₃₂		9 6.1 25°41	6°1/ 1.8 18		
7 30	23 22.77	+14 24.6	2.139	2.874	16.2	20.5	7 30	23 20.19	-13 50.0	0.960	1.860	20.2	18.4
8 9	23 19.01	+14 20.9	2.047	2.874	13.9	20.3	8 9	23 18.55	-15 12.1	0.923	1.874	15.4	18.1
8 19	23 13.32	+13 54.1	1.973	2.874	11.1	20.2	8 19	23 13.65	-16 43.3	0.905	1.889	10.4	17.9
8 29	23 6.17	+13 3.3	1.921	2.873	8.3	20.0	8 29	23 6.40	-18 10.7	0.907	1.906	6.5	17.8
9 8	22 58.27	+11 50.7	1.895	2.872	6.1	19.9	9 8	22 58.29	-19 20.9	0.930	1.924	7.2	17.9
9 18	22 50.46	+10 21.0	1.896	2.870	6.2	19.9	9 18	22 50.86	-20 4.4	0.975	1.943	11.2	18.2
9 28	22 43.62	+ 8 41.8	1.925	2.867	8.3	20.0	9 28	22 45.51	-20 17.1	1.040	1.964	15.6	18.5
10 8	22 38.45	+ 7 1.4	1.980	2.865	11.2	20.2	10 8	22 43.07	-20 0.4	1.123	1.986	19.5	18.8
314491	2005 WU ₁₇₉		9 6.1 349°87	3°2/ 8.9 18			265223	2004 CE ₇₉		9 6.1 255°68	0°3/ 5.9 18		
7 30	23 22.87	+ 2 55.9	1.912	2.718	15.6	20.1	7 30	23 26.55	- 4 51.4	1.657	2.494	16.2	20.8
8 9	23 19.23	+ 3 14.5	1.828	2.715	12.7	19.9	8 9	23 22.55	- 5 11.2	1.568	2.482	12.8	20.5
8 19	23 13.54	+ 3 17.6	1.763	2.712	9.3	19.7	8 19	23 16.04	- 5 45.0	1.500	2.469	8.6	20.2
8 29	23 6.28	+ 3 5.7	1.722	2.710	5.7	19.5	8 29	23 7.54	- 6 29.3	1.455	2.457	3.9	19.9
9 8	22 58.24	+ 2 41.5	1.707	2.708	3.2	19.3	9 8	22 57.97	- 7 18.2	1.437	2.444	1.1	19.7
9 18	22 50.31	+ 2 8.9	1.719	2.706	5.0	19.5	9 18	22 48.46	- 8 4.9	1.445	2.430	6.1	20.0
9 28	22 43.44	+ 1 33.3	1.758	2.705	8.6	19.7	9 28	22 40.18	- 8 43.0	1.479	2.417	10.8	20.2
10 8	22 38.37	+ 1 0.2	1.820	2.704	12.0	19.9	10 8	22 34.10	- 9 7.7	1.536	2.403	14.9	20.5
444345	2005 WY ₁₃₁		9 6.1 229°84	0°9/ 5.0 18			5208	Royer		9 6.1 193°09	5°3/ 31.2 18 R		
7 30	23 22.23	- 7 4.9	2.547	3.375	11.5	22.4	7 30	23 22.73	-15 53.1	1.865	2.727	13.7	16.9
8 9	23 18.21	- 7 37.0	2.457	3.367	8.9	22.2	8 9	23 19.24	-17 33.9	1.798	2.726	10.5	16.7
8 19	23 12.59	- 8 17.5	2.389	3.359	5.9	22.0	8 19	23 13.60	-19 21.3	1.754	2.726	7.4	16.5
8 29	23 5.78	- 9 3.1	2.348	3.350	2.6	21.8	8 29	23 6.34	-21 6.5	1.735	2.725	5.3	16.4
9 8	22 58.37	- 9 49.5	2.336	3.342	1.4	21.7	9 8	22 58.28	-22 40.2	1.744	2.724	6.2	16.5
9 18	22 51.03	-10 32.2	2.353	3.333	4.6	21.9	9 18	22 50.40	-23 54.5	1.780	2.722	9.1	16.6
9 28	22 44.47	-11 7.3	2.398	3.323	7.8	22.1	9 28	22 43.67	-24 44.8	1.840	2.721	12.3	16.8
10 8	22 39.28	-11 31.9	2.468	3.314	10.7	22.2	10 8	22 38.86	-25 9.8	1.922	2.719	15.1	17.0
387778	2003 UG ₅₂		9 6.1 6°87	0°2/ 5.9 18			112754	2002 PD ₁₃₅		9 6.1 6°95	3°7/ 3.7 17		
7 30	23 29.00	- 7 30.3	1.521	2.367	17.0	20.0	7 30	23 17.78	-10 46.2	0.905	1.808	20.9	18.6
8 9	23 24.42	- 7 11.1	1.449	2.367	13.3	19.8	8 9	23 16.99	-11 21.7	0.856	1.808	16.1	18.3
8 19	23 17.20	- 7 0.9	1.397	2.368	8.9	19.5	8 19	23 12.84	-12 11.1	0.824	1.810	10.7	18.0
8 29	23 7.98	- 6 56.8	1.368	2.370	4.1	19.2	8 29	23 6.15	-13 5.1	0.810	1.814	5.3	17.8
9 8	22 57.85	- 6 54.8	1.365	2.372	1.1	19.0	9 8	22 58.34	-13 52.3	0.818	1.820	4.6	17.8
9 18	22 48.02	- 6 50.6	1.388	2.374	6.1	19.4	9 18	22 51.03	-14 22.8	0.846	1.829	9.7	18.1
9 28	22 39.71	- 6 40.7	1.437	2.377	10.7	19.6	9 28	22 45.78	-14 30.4	0.894	1.839	15.0	18.4
10 8	22 33.82	- 6 22.4	1.508	2.381	14.7	19.9	10 8	22 43.55	-14 13.6	0.959	1.851	19.5	18.7
164745	1998 TU ₈		9 6.1 291°14	0°1/ 6.2 18			448418	2009 SA ₁₆₈		9 6.1 348°70	1°8/ 4.8 18		
7 30	23 22.51	- 3 25.6	1.848	2.681	15.0	20.6	7 30	23 28.48	-11 49.3	1.916	2.758	14.2	20.1
8 9	23 19.07	- 3 50.4	1.762	2.673	11.8	20.4	8 9	23 23.53	-11 40.6	1.836	2.754	11.0	19.9
8 19	23 13.50	- 4 29.2	1.696	2.664	8.0	20.1	8 19	23 16.37	-11 36.1	1.778	2.750	7.3	19.7
8 29	23 6.29	- 5 18.8	1.655	2.656	3.7	19.9	8 29	23 7.57	-11 32.3	1.745	2.746	3.4	19.4
9 8	22 58.24	- 6 13.8	1.641	2.648	0.8	19.6	9 8	22 58.00	-11 25.4	1.739	2.743	2.2	19.3
9 18	22 50.29	- 7 7.9	1.653	2.639	5.3	19.9	9 18	22 48.67	-11 12.1	1.761	2.740	5.9	19.6
9 28	22 43.41	- 7 54.9	1.692	2.631	9.5	20.2	9 28	22 40.56	-10 50.1	1.810	2.738	9.7	19.8
10 8	22 38.39	- 8 30.2	1.755	2.623	13.2	20.4	10 8	22 34.43	-10 18.5	1.883	2.737	13.1	20.0
99632	2002 GT ₁₀₃		9 6.1 214°34	2°5/ 3.8 18			521561	2015 OG ₁₀₄		9 6.1 311°95	0°3/ 5.8 18		
7 30	23 24.10	- 7 35.2	1.493	2.349	16.8	19.7	7 30	23 21.21	- 4 27.8	1.938	2.774	14.3	21.3
8 9	23 20.76	- 8 44.0	1.420	2.347	12.9	19.5	8 9	23 17.95	- 4 59.2	1.853	2.766	11.1	21.0
8 19	23 14.86	-10 8.5	1.368	2.345	8.5	19.2	8 19	23 12.70	- 5 43.6	1.789	2.759	7.5	20.8
8 29	23 6.97	-11 41.5	1.340	2.342	4.0	18.9	8 29	23 5.92	- 6 37.3	1.750	2.752	3.4	20.5
9 8	22 58.09	-13 12.9	1.338	2.340	3.4	18.9	9 8	22 58.38	- 7 34.8	1.738	2.745	1.0	20.3
9 18	22 49.41	-14 33.0	1.362	2.337	7.7	19.2	9 18	22 50.94	- 8 30.1	1.753	2.738	5.3	20.6
9 28	22 42.15	-15 34.0	1.410	2.334	12.2	19.4	9 28	22 44.51	- 9 17.1	1.795	2.731	9.3	20.9
10 8	22 37.20	-16 12.0	1.480	2.331	16.2	19.7	10 8	22 39.83	- 9 51.7	1.860	2.724	12.8	21.1
151529	2002 RR ₈₀		9 6.1 0°33	0°7/ 6.6 18			118983	2000 XB ₁₉		9 6.1 214°81	3°6/ 1.9 18		
7 30	23 20.38	- 3 41.1	1.049	1.925	2								

EPHEMERIDES

9 6.1

9 6.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
444272	2005 <i>US</i> ₃₃₂		9 6.1 20°44'	0°5'	6.6	15	50738	2000 <i>EA</i> ₁₅₅		9 6.1 221°50'	1°8'	7.8	18
7 30	23 20.73	- 2 8.7	1.851	2.683	15.0	21.6	7 30	23 25.65	+ 0 9.1	2.198	3.000	13.9	20.1
8 9	23 17.57	- 2 33.9	1.777	2.686	11.8	21.4	8 9	23 21.15	+ 0 12.2	2.105	2.994	11.1	19.9
8 19	23 12.41	- 3 13.7	1.724	2.690	8.0	21.2	8 19	23 14.73	+ 0 2.6	2.035	2.988	7.9	19.7
8 29	23 5.77	- 4 4.7	1.695	2.695	3.8	21.0	8 29	23 6.85	- 0 18.3	1.989	2.982	4.3	19.4
9 8	22 58.44	- 5 1.6	1.693	2.700	0.8	20.7	9 8	22 58.23	- 0 47.4	1.971	2.975	1.8	19.3
9 18	22 51.31	- 5 58.1	1.717	2.705	4.9	21.1	9 18	22 49.67	- 1 20.7	1.981	2.969	4.4	19.4
9 28	22 45.27	- 6 48.2	1.768	2.710	8.9	21.3	9 28	22 42.06	- 1 53.6	2.020	2.961	8.0	19.6
10 8	22 41.02	- 7 27.2	1.843	2.716	12.5	21.5	10 8	22 36.09	- 2 21.6	2.083	2.954	11.4	19.8
193423	2000 <i>WS</i> ₉₂		9 6.1 318°19'	0°3'	6.3	18	118839	2000 <i>SA</i> ₂₀₈		9 6.1 312°01'	2°4'	3.8	18
7 30	23 21.36	- 3 31.2	1.437	2.289	17.5	20.1	7 30	23 23.22	- 11 11.0	1.986	2.835	13.5	19.8
8 9	23 18.92	- 3 43.6	1.347	2.268	13.9	19.8	8 9	23 19.46	- 11 45.1	1.905	2.828	10.4	19.6
8 19	23 13.86	- 4 13.0	1.275	2.248	9.5	19.5	8 19	23 13.69	- 12 26.6	1.846	2.821	6.9	19.4
8 29	23 6.65	- 4 56.4	1.226	2.228	4.5	19.2	8 29	23 6.39	- 13 10.6	1.813	2.814	3.4	19.2
9 8	22 58.21	- 5 47.8	1.201	2.209	1.0	18.9	9 8	22 58.34	- 13 51.3	1.806	2.807	3.0	19.1
9 18	22 49.73	- 6 39.8	1.201	2.190	6.4	19.2	9 18	22 50.43	- 14 23.4	1.827	2.800	6.4	19.3
9 28	22 42.55	- 7 24.4	1.226	2.172	11.5	19.4	9 28	22 43.58	- 14 42.7	1.874	2.794	10.0	19.5
10 8	22 37.71	- 7 55.3	1.271	2.155	16.1	19.7	10 8	22 38.51	- 14 47.1	1.944	2.787	13.2	19.7
47079	1998 <i>YA</i> ₃		9 6.1 325°28'	0°3'	6.4	18	213178	2000 <i>SF</i> ₁₄₅		9 6.1 319°94'	3°0'	8.2	17
7 30	23 22.21	- 2 58.5	1.808	2.642	15.2	18.5	7 30	23 20.39	+ 1 56.2	1.197	2.046	20.5	19.9
8 9	23 18.85	- 3 22.2	1.727	2.638	12.0	18.3	8 9	23 18.63	+ 1 59.3	1.115	2.029	16.7	19.6
8 19	23 13.36	- 4 0.5	1.666	2.634	8.1	18.1	8 19	23 13.93	+ 1 38.1	1.049	2.014	12.1	19.3
8 29	23 6.25	- 4 49.9	1.630	2.630	3.8	17.8	8 29	23 6.77	+ 0 52.9	1.003	1.998	6.9	18.9
9 8	22 58.33	- 5 45.0	1.620	2.627	0.8	17.6	9 8	22 58.22	- 0 11.1	0.979	1.984	3.0	18.6
9 18	22 50.56	- 6 39.4	1.637	2.623	5.2	17.9	9 18	22 49.64	- 1 25.4	0.978	1.970	6.7	18.8
9 28	22 43.89	- 7 27.0	1.680	2.620	9.4	18.1	9 28	22 42.58	- 2 38.7	1.000	1.957	12.2	19.1
10 8	22 39.11	- 8 2.9	1.746	2.617	13.2	18.4	10 8	22 38.23	- 3 40.8	1.043	1.945	17.3	19.3
348030	2003 <i>UK</i> ₁₆		9 6.1 337°31'	8°7'	31.1	18	135026	2001 <i>LW</i> ₁₂		9 6.1 37°20'	12°4'	19.4	18
7 30	23 24.49	- 23 14.2	1.271	2.156	17.3	19.5	7 30	23 24.92	+ 25 30.5	1.794	2.464	20.9	19.1
8 9	23 21.80	- 24 7.8	1.202	2.138	14.0	19.2	8 9	23 21.28	+ 27 2.8	1.723	2.474	19.0	18.9
8 19	23 15.95	- 25 0.0	1.151	2.120	10.7	19.0	8 19	23 15.19	+ 28 7.5	1.667	2.484	16.9	18.8
8 29	23 7.61	- 25 39.9	1.122	2.104	8.8	18.9	8 29	23 7.17	+ 28 38.9	1.628	2.495	14.8	18.7
9 8	22 58.01	- 25 57.1	1.115	2.089	9.7	18.9	9 8	22 58.15	+ 28 34.3	1.609	2.506	13.1	18.6
9 18	22 48.67	- 25 44.9	1.130	2.076	12.8	19.0	9 18	22 49.25	+ 27 54.7	1.611	2.517	12.4	18.6
9 28	22 41.13	- 25 1.3	1.166	2.064	16.5	19.2	9 28	22 41.64	+ 26 46.0	1.635	2.529	12.8	18.6
10 8	22 36.47	- 23 49.5	1.221	2.053	20.1	19.4	10 8	22 36.22	+ 25 17.8	1.682	2.541	14.1	18.8
3785	Kitami		9 6.1 324°73'	0°2'	5.9	18	316025	2009 <i>FU</i> ₄₁		9 6.1 272°67'	4°1'	3.1	17
7 30	23 19.76	- 4 34.9	2.045	2.881	13.6	16.8	7 30	23 27.03	- 12 16.1	1.404	2.268	17.1	21.3
8 9	23 16.76	- 5 1.4	1.955	2.868	10.6	16.6	8 9	23 23.43	- 13 8.0	1.324	2.255	13.3	21.0
8 19	23 11.88	- 5 40.0	1.886	2.856	7.1	16.4	8 19	23 16.92	- 14 11.0	1.263	2.240	9.0	20.8
8 29	23 5.56	- 6 27.4	1.843	2.844	3.2	16.1	8 29	23 8.06	- 15 17.3	1.226	2.226	4.9	20.5
9 8	22 58.50	- 7 18.6	1.826	2.833	0.9	15.9	9 8	22 57.93	- 16 17.4	1.214	2.212	4.9	20.5
9 18	22 51.50	- 8 8.3	1.836	2.822	5.0	16.2	9 18	22 47.90	- 17 2.2	1.227	2.197	9.1	20.7
9 28	22 45.42	- 8 50.8	1.874	2.811	8.9	16.4	9 28	22 39.39	- 17 25.4	1.263	2.183	13.8	20.9
10 8	22 40.96	- 9 22.2	1.935	2.801	12.3	16.6	10 8	22 33.50	- 17 24.9	1.319	2.168	17.9	21.1
305301	2008 <i>AY</i> ₂₄		9 6.1 295°17'	1°0'	5.2	18	67290	2000 <i>GD</i> ₅₄		9 6.1 7°13'	0°6'	6.6	18
7 30	23 23.17	- 6 58.1	1.971	2.810	14.0	21.7	7 30	23 21.57	- 2 12.3	1.721	2.557	15.8	19.7
8 9	23 19.43	- 7 24.8	1.887	2.804	10.8	21.5	8 9	23 18.41	- 2 34.4	1.646	2.557	12.4	19.5
8 19	23 13.66	- 8 2.0	1.826	2.797	7.2	21.3	8 19	23 13.09	- 3 12.0	1.591	2.558	8.5	19.2
8 29	23 6.38	- 8 45.7	1.789	2.791	3.2	21.0	8 29	23 6.14	- 4 1.7	1.559	2.559	4.1	19.0
9 8	22 58.33	- 9 30.5	1.780	2.785	1.6	20.9	9 8	22 58.41	- 4 57.9	1.553	2.561	0.9	18.7
9 18	22 50.40	- 10 10.9	1.798	2.779	5.5	21.1	9 18	22 50.86	- 5 54.0	1.575	2.562	5.3	19.1
9 28	22 43.52	- 10 42.1	1.842	2.773	9.4	21.4	9 28	22 44.49	- 6 43.6	1.622	2.565	9.5	19.3
10 8	22 38.41	- 11 0.7	1.910	2.768	12.8	21.6	10 8	22 40.05	- 7 21.4	1.692	2.567	13.3	19.6
218562	2005 <i>EC</i> ₂₆₆		9 6.1 76°99'	1°4'	7.3	17	339359	2005 <i>AO</i> ₃₃		9 6.1 310°75'	0°3'	5.8	18
7 30	23 26.23	+ 0 16.5	1.422	2.254	18.7	20.7	7 30	23 20.37	- 3 43.7	1.519	2.370	16.8	20.2
8 9	23 22.26	- 0 7.2	1.365	2.272	14.8	20.5	8 9	23 18.07	- 4 16.7	1.423	2.345	13.3	19.9
8 19	23 15.71	- 0 51.1	1.326	2.290	10.2	20.3	8 19	23 13.26	- 5 8.1	1.348	2.321	9.0	19.6
8 29	23 7.31	- 1 51.1	1.310	2.308	5.2	20.0	8 29	23 6.39	- 6 14.2	1.295	2.297	4.1	19.2
9 8	22 58.14	- 3 0.2	1.319	2.326	1.5	19.8	9 8	22 58.32	- 7 27.9	1.266	2.273	1.2	19.0
9 18	22 49.41	- 4 10.1	1.355	2.344	5.7	20.2	9 18	22 50.16	- 8 40.8	1.264	2.250	6.5	19.3
9 28	22 42.26	- 5 12.4	1.415	2.361	10.4	20.5	9 28	22 43.18	- 9 43.9	1.285	2.227	11.6	19.5
10 8	22 37.49	- 6 1.2	1.499	2.379	14.4	20.8	10 8	22 38.40	- 10 30.4	1.328	2.205	16.1	19.7
408078	2012 <i>HE</i> ₁₆		9 6.1 189°92'	0°9'	4.7	18	399029	2013 <i>GT</i> ₁₃₄		9 6.1 26°68'	1°8'	4.2	18
7 30	23 19.46	- 6 7.4	3.122	3.942	9.8	21.5	7 30	23 19.55	- 7 46.3	1.873	2.724	14.1	20.2
8 9	23 15.78	- 7 2.6	3.034	3.941	7.5	21.3	8 9	23 16.61	- 8 38.9	1.808	2.732	10.8	20.0
8 19	23 10.84	- 8 5.9	2.971	3.939	4.9	21.2	8 19	23 11.73	- 9 42.3	1.766	2.741	7.0	19.8
8 29	23 4.98	- 9 14.1	2.936	3.937	2.2	21.0	8 29	23 5.47	- 10 50.9	1.748	2.751	3.2	19.6
9 8	22 58.67	- 10 22.9	2.930	3.935	1.3	20.9	9 8	22 58.59	- 11 58.0	1.758	2.761	2.4	19.6
9 18	22 52.43	- 11 28.2	2.955	3.932	4.0	21.1	9 18	22 51.94	- 12 57.0	1.794	2.772	6.0	19.9
9 28	22 46.80	- 12 26.0	3.009	3.929	6.6	21.3	9 28	22 46.39	- 13 42.8	1.856	2.783	9.6	20.1
10 8	22 42.24	- 13 13.4	3.090	3.925	9.0	21.4	10 8	22 42.58	- 14 12.2	1.942	2.794	12.8	20.3
474508	2003 <i>UT</i> ₈₇		9 6.1 340°14'	9°3'	12.7	18	294698	2008 <i>BJ</i> ₂					

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
425619	2010 <i>VV</i> ₆₀		9 6.1 342°58	0°2/ 6.2 15			384688	2011 <i>GF</i> ₅₈		9 6.1 48°48	4°3/ 2.6 16		
7 30	23 27.89	- 6 52.3	1.138	2.004	20.2	21.3	7 30	23 25.67	-13 58.0	1.531	2.396	16.0	21.2
8 9	23 24.54	- 6 25.1	1.067	1.996	16.0	21.0	8 9	23 21.83	-14 51.6	1.472	2.402	12.3	21.0
8 19	23 17.87	- 6 9.6	1.013	1.989	10.9	20.7	8 19	23 15.46	-15 52.0	1.433	2.409	8.3	20.8
8 29	23 8.54	- 6 3.1	0.980	1.982	5.1	20.4	8 29	23 7.24	-16 51.2	1.418	2.416	4.8	20.6
9 8	22 57.85	- 6 0.7	0.970	1.977	1.1	20.1	9 8	22 58.23	-17 41.0	1.429	2.423	5.0	20.6
9 18	22 47.39	- 5 57.2	0.983	1.972	7.3	20.5	9 18	22 49.59	-18 14.8	1.465	2.430	8.5	20.8
9 28	22 38.82	- 5 47.4	1.019	1.968	12.9	20.8	9 28	22 42.45	-18 28.4	1.525	2.438	12.3	21.1
10 8	22 33.31	- 5 27.7	1.074	1.966	17.8	21.1	10 8	22 37.62	-18 21.3	1.607	2.446	15.7	21.3
92858	2000 <i>QV</i> ₂₀₅		9 6.1 50°62	2°6/ 4.7 17			21905	1999 <i>VX</i> ₁₄		9 6.1 175°61	1°2/ 7.1 18		
7 30	23 34.29	-13 2.8	1.434	2.285	17.5	19.1	7 30	23 27.02	- 0 56.6	1.694	2.516	16.6	19.9
8 9	23 28.47	-12 54.3	1.377	2.299	13.6	18.9	8 9	23 22.72	- 1 12.0	1.615	2.517	13.2	19.7
8 19	23 19.81	-12 50.3	1.340	2.314	9.0	18.7	8 19	23 16.04	- 1 43.9	1.557	2.519	9.1	19.5
8 29	23 9.15	-12 45.8	1.327	2.328	4.3	18.4	8 29	23 7.54	- 2 29.4	1.522	2.519	4.6	19.2
9 8	22 57.76	-12 35.6	1.340	2.343	3.1	18.4	9 8	22 58.15	- 3 23.4	1.513	2.520	1.3	19.0
9 18	22 46.98	-12 16.3	1.380	2.358	7.3	18.7	9 18	22 48.94	- 4 19.1	1.532	2.520	5.4	19.3
9 28	22 38.07	-11 45.9	1.445	2.374	11.6	19.0	9 28	22 41.03	- 5 9.9	1.577	2.520	9.8	19.5
10 8	22 31.84	-11 4.4	1.532	2.390	15.4	19.3	10 8	22 35.23	- 5 50.0	1.646	2.519	13.7	19.8
352943	2009 <i>BB</i> ₇		9 6.1 248°50	7°7/13.0 18			93198	2000 <i>ST</i> ₁₁₄		9 6.1 279°71	2°8/ 8.8 18 R		
7 30	23 26.92	+15 1.8	2.115	2.839	16.7	21.3	7 30	23 21.02	+ 4 43.9	1.745	2.552	16.8	19.2
8 9	23 22.45	+16 0.7	2.016	2.829	14.6	21.1	8 9	23 18.12	+ 4 18.2	1.654	2.543	13.6	19.0
8 19	23 15.81	+16 40.8	1.936	2.820	12.1	20.9	8 19	23 13.02	+ 3 30.2	1.583	2.534	9.9	18.8
8 29	23 7.45	+16 58.8	1.877	2.810	9.7	20.7	8 29	23 6.19	+ 2 21.6	1.536	2.525	5.8	18.5
9 8	22 58.10	+16 53.7	1.843	2.800	8.0	20.6	9 8	22 58.45	+ 0 57.3	1.513	2.516	2.8	18.3
9 18	22 48.69	+16 26.8	1.835	2.790	8.0	20.6	9 18	22 50.76	- 0 35.2	1.518	2.507	5.2	18.4
9 28	22 40.22	+15 42.8	1.853	2.779	9.7	20.7	9 28	22 44.16	- 2 7.0	1.549	2.498	9.4	18.7
10 8	22 33.56	+14 48.6	1.896	2.769	12.2	20.8	10 8	22 39.48	- 3 29.6	1.604	2.489	13.3	18.9
175592	2006 <i>UH</i> ₃₀		9 6.1 293°41	0°4/ 6.5 18			220840	2004 <i>VQ</i>		9 6.1 309°32	0°7/ 6.8 18		
7 30	23 22.79	- 3 10.4	1.982	2.810	14.3	21.0	7 30	23 22.38	- 2 58.5	2.068	2.893	13.9	20.1
8 9	23 19.13	- 3 28.1	1.896	2.804	11.3	20.8	8 9	23 18.82	- 3 4.0	1.973	2.878	11.0	19.9
8 19	23 13.48	- 3 58.7	1.832	2.798	7.6	20.6	8 19	23 13.30	- 3 21.2	1.900	2.864	7.5	19.6
8 29	23 6.32	- 4 39.1	1.792	2.792	3.6	20.3	8 29	23 6.27	- 3 47.9	1.851	2.850	3.7	19.4
9 8	22 58.39	- 5 24.8	1.779	2.786	0.8	20.1	9 8	22 58.44	- 4 20.5	1.829	2.836	0.9	19.1
9 18	22 50.56	- 6 10.5	1.794	2.780	4.9	20.4	9 18	22 50.65	- 4 54.4	1.835	2.822	4.7	19.4
9 28	22 43.75	- 6 50.5	1.835	2.775	8.9	20.6	9 28	22 43.79	- 5 24.6	1.868	2.809	8.6	19.6
10 8	22 38.68	- 7 20.7	1.901	2.769	12.4	20.8	10 8	22 38.59	- 5 47.1	1.925	2.796	12.1	19.8
213694	2002 <i>TW</i> ₂₅₆		9 6.1 279°91	4°2/ 2.2 18			332071	2005 <i>SD</i> ₂₁₀		9 6.1 0°77	4°6/ 9.6 14 C		
7 30	23 25.81	-15 51.7	1.989	2.842	13.3	20.6	7 30	23 15.05	+ 4 51.0	1.036	1.894	22.4	20.4
8 9	23 21.64	-16 36.8	1.899	2.822	10.4	20.4	8 9	23 14.59	+ 5 5.0	0.973	1.890	18.4	20.2
8 19	23 15.27	-17 26.7	1.831	2.802	7.2	20.2	8 19	23 11.20	+ 4 49.5	0.925	1.887	13.6	19.9
8 29	23 7.19	-18 15.4	1.788	2.782	4.5	20.0	8 29	23 5.50	+ 4 4.4	0.896	1.887	8.5	19.6
9 8	22 58.18	-18 56.1	1.772	2.762	4.8	20.0	9 8	22 58.63	+ 2 55.4	0.887	1.888	4.7	19.4
9 18	22 49.22	-19 23.1	1.784	2.742	7.8	20.1	9 18	22 52.00	+ 1 32.3	0.899	1.892	6.9	19.6
9 28	22 41.33	-19 32.7	1.821	2.722	11.3	20.3	9 28	22 47.06	+ 0 7.9	0.933	1.897	11.9	19.9
10 8	22 35.34	-19 23.5	1.880	2.702	14.5	20.4	10 8	22 44.83	- 1 6.0	0.987	1.904	16.7	20.2
99796	2002 <i>KL</i> ₁₂		9 6.1 357°48	1°3/ 4.6 18			99586	2002 <i>GZ</i> ₁₁		9 6.1 135°78	3°5/ 3.0 18		
7 30	23 18.04	- 5 35.4	1.949	2.794	13.8	19.0	7 30	23 26.37	-13 14.9	1.816	2.668	14.4	19.7
8 9	23 15.47	- 6 38.5	1.872	2.793	10.7	18.8	8 9	23 22.03	-14 0.0	1.747	2.671	11.1	19.5
8 19	23 11.02	- 7 55.2	1.817	2.791	7.0	18.5	8 19	23 15.45	-14 51.5	1.700	2.674	7.4	19.3
8 29	23 5.18	- 9 20.2	1.788	2.790	3.1	18.3	8 29	23 7.23	-15 43.0	1.678	2.677	4.1	19.1
9 8	22 58.66	-10 46.4	1.785	2.790	2.0	18.2	9 8	22 58.26	-16 27.7	1.683	2.679	4.1	19.1
9 18	22 52.28	-12 6.3	1.811	2.790	5.7	18.5	9 18	22 49.56	-16 59.9	1.715	2.682	7.3	19.3
9 28	22 46.88	-13 13.6	1.862	2.790	9.5	18.7	9 28	22 42.12	-17 15.6	1.773	2.684	11.0	19.6
10 8	22 43.13	-14 4.0	1.938	2.791	12.8	18.9	10 8	22 36.71	-17 13.7	1.852	2.686	14.2	19.8
387919	2004 <i>YT</i> ₃₂		9 6.1 256°82	3°5/ 2.7 18			360079	2013 <i>BM</i> ₁		9 6.1 245°11	0°5/ 7.2 18		
7 30	23 24.76	-12 57.5	1.940	2.791	13.7	21.7	7 30	23 15.83	- 2 10.3	4.581	5.379	7.3	21.3
8 9	23 20.82	-13 52.3	1.855	2.778	10.6	21.4	8 9	23 12.60	- 2 21.4	4.484	5.373	5.7	21.2
8 19	23 14.71	-14 55.0	1.791	2.765	7.1	21.2	8 19	23 8.56	- 2 38.2	4.411	5.368	3.9	21.0
8 29	23 6.92	-15 59.2	1.754	2.752	4.0	21.0	8 29	23 3.94	- 2 59.4	4.366	5.362	2.0	20.9
9 8	22 58.26	-16 57.9	1.743	2.738	4.2	21.0	9 8	22 59.03	- 3 23.3	4.350	5.357	0.6	20.7
9 18	22 49.67	-17 44.6	1.760	2.724	7.4	21.1	9 18	22 54.17	- 3 48.1	4.365	5.351	2.3	20.9
9 28	22 42.16	-18 14.5	1.802	2.709	11.0	21.3	9 28	22 49.68	- 4 11.8	4.409	5.346	4.2	21.0
10 8	22 36.53	-18 25.4	1.867	2.695	14.3	21.5	10 8	22 45.87	- 4 32.4	4.481	5.340	6.0	21.2
195253	2002 <i>EA</i> ₄₉		9 6.1 101°59	1°3/ 4.9 17			41342	1999 <i>YC</i> ₂₃		9 6.1 275°49	0°6/ 7.4 18		
7 30	23 25.74	- 7 26.2	1.762	2.604	15.2	20.5	7 30	23 14.93	- 1 15.4	4.549	5.344	7.3	19.9
8 9	23 21.53	- 7 58.6	1.693	2.611	11.7	20.3	8 9	23 11.94	- 1 30.6	4.450	5.337	5.8	19.7
8 19	23 15.10	- 8 41.9	1.646	2.619	7.7	20.1	8 19	23 8.13	- 1 52.0	4.376	5.331	4.0	19.6
8 29	23 7.04	- 9 31.2	1.624	2.626	3.5	19.9	8 29	23 3.75	- 2 18.3	4.329	5.325	2.0	19.5
9 8	22 58.26	-10 20.2	1.628	2.633	1.9	19.8	9 8	22 59.08	- 2 47.8	4.312	5.318	0.7	19.3
9 18	22 49.74	-11 2.7	1.659	2.640	6.0	20.1	9 18	22 54.44	- 3 18.4	4.325	5.311	2.3	19.5
9 28	22 42.51	-11 33.7	1.717	2.647	10.1	20.3	9 28	22 50.19	- 3 48.0	4.367	5.305	4.2	19.6
10 8	22 37.28	-11 50.3	1.797	2.653	13.6	20.6	10 8	22 46.60	- 4 14.6	4.437	5.298	6.0	19.7
157321	2004 <i>SN</i> ₅₂		9 6.1 40°56	3°5/ 9.5 16			499765	2011 <i>CJ</i> ₆		9 6.1 267°63	2°		

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
225484	2000 GY ₁₅₄		9 6.1 101°54	4°3/10.6	17		243625	1999 RA ₈₈		9 6.1 306°03	3°3/3.9	18	
7 30	23 25.26	+ 8 57.5	1.791	2.568	17.5	21.2	7 30	23 30.57	-14 19.2	1.656	2.507	15.6	19.7
8 9	23 21.08	+ 8 43.0	1.723	2.587	14.4	21.1	8 9	23 25.67	-14 27.4	1.574	2.497	12.2	19.5
8 19	23 14.76	+ 8 5.3	1.675	2.607	10.8	20.9	8 19	23 18.13	-14 39.5	1.514	2.487	8.2	19.3
8 29	23 6.89	+ 7 5.7	1.649	2.626	7.1	20.7	8 29	23 8.56	-14 50.1	1.478	2.477	4.4	19.0
9 8	22 58.36	+ 5 48.8	1.650	2.644	4.4	20.6	9 8	22 57.99	-14 53.6	1.468	2.467	3.8	19.0
9 18	22 50.13	+ 4 21.3	1.677	2.662	5.4	20.7	9 18	22 47.62	-14 45.3	1.485	2.458	7.5	19.2
9 28	22 43.17	+ 2 51.9	1.732	2.679	8.7	20.9	9 28	22 38.68	-14 22.7	1.527	2.448	11.7	19.4
10 8	22 38.17	+ 1 28.5	1.812	2.696	12.1	21.2	10 8	22 32.11	-13 45.3	1.592	2.439	15.4	19.6
374435	2005 WM ₁₆₃		9 6.1 20°81	4°3/31.9	18		158285	2001 UV ₆₂		9 6.1 275°90	0°3/5.9	18	
7 30	23 22.10	-20 39.7	2.680	3.530	10.4	20.3	7 30	23 25.49	- 5 0.1	1.704	2.542	15.8	20.8
8 9	23 18.02	-21 18.4	2.615	3.534	8.1	20.2	8 9	23 21.76	- 5 20.3	1.610	2.524	12.5	20.6
8 19	23 12.42	-21 56.5	2.574	3.538	5.8	20.1	8 19	23 15.59	- 5 54.3	1.536	2.506	8.4	20.3
8 29	23 5.75	-22 29.4	2.560	3.543	4.4	20.0	8 29	23 7.46	- 6 38.6	1.487	2.488	3.9	20.0
9 8	22 58.62	-22 52.7	2.573	3.547	4.8	20.0	9 8	22 58.23	- 7 27.7	1.463	2.470	1.1	19.8
9 18	22 51.71	-23 3.4	2.613	3.552	6.7	20.1	9 18	22 48.99	- 8 14.8	1.466	2.451	6.0	20.0
9 28	22 45.65	-22 59.8	2.680	3.557	9.0	20.3	9 28	22 40.89	- 8 53.5	1.495	2.432	10.7	20.3
10 8	22 40.97	-22 41.8	2.770	3.563	11.1	20.5	10 8	22 34.90	- 9 19.0	1.546	2.413	14.8	20.5
186836	2004 FU ₉₃		9 6.1 67°71	0°2/6.4	17		300815	2007 WD ₃₆		9 6.1 180°31	1°1/5.1	18	
7 30	23 23.52	- 1 14.2	1.457	2.297	17.9	20.5	7 30	23 24.92	- 7 32.0	2.065	2.899	13.6	21.1
8 9	23 20.16	- 2 2.8	1.399	2.313	14.0	20.2	8 9	23 20.66	- 7 57.5	1.986	2.900	10.5	20.9
8 19	23 14.34	- 3 11.1	1.360	2.329	9.4	20.0	8 19	23 14.44	- 8 32.2	1.929	2.900	6.9	20.7
8 29	23 6.75	- 4 33.6	1.344	2.345	4.4	19.8	8 29	23 6.77	- 9 12.2	1.898	2.900	3.1	20.4
9 8	22 58.40	- 6 1.8	1.353	2.361	0.9	19.6	9 8	22 58.42	- 9 52.4	1.895	2.900	1.6	20.3
9 18	22 50.42	- 7 26.3	1.389	2.377	5.9	20.0	9 18	22 50.24	-10 27.9	1.919	2.900	5.3	20.6
9 28	22 43.92	- 8 38.8	1.451	2.393	10.5	20.3	9 28	22 43.10	-10 54.3	1.971	2.899	9.0	20.8
10 8	22 39.66	- 9 33.5	1.535	2.409	14.5	20.6	10 8	22 37.70	-11 8.7	2.046	2.899	12.3	21.0
328122	2008 AL ₁₀₀		9 6.1 218°19	0°4/5.7	18		94263	2001 CC ₄₄		9 6.1 172°31	3°0/3.2	18	
7 30	23 24.94	- 3 11.7	1.738	2.570	15.8	21.9	7 30	23 31.19	-17 4.1	2.691	3.519	11.0	19.6
8 9	23 21.16	- 4 0.3	1.653	2.564	12.4	21.7	8 9	23 24.94	-17 14.9	2.612	3.521	8.5	19.4
8 19	23 15.05	- 5 5.9	1.588	2.557	8.3	21.4	8 19	23 16.99	-17 25.9	2.557	3.523	5.8	19.2
8 29	23 7.14	- 6 24.0	1.548	2.550	3.8	21.1	8 29	23 7.85	-17 33.6	2.531	3.524	3.5	19.1
9 8	22 58.28	- 7 47.5	1.535	2.542	1.2	20.9	9 8	22 58.19	-17 34.4	2.534	3.525	3.4	19.1
9 18	22 49.51	- 9 8.1	1.550	2.534	5.9	21.2	9 18	22 48.76	-17 25.6	2.567	3.526	5.7	19.2
9 28	22 41.92	-10 17.9	1.591	2.525	10.4	21.5	9 28	22 40.31	-17 6.0	2.629	3.527	8.4	19.4
10 8	22 36.36	-11 11.4	1.656	2.516	14.3	21.7	10 8	22 33.42	-16 35.4	2.716	3.527	10.8	19.6
37417	2001 XB ₁₉₇		9 6.1 63°39	1°3/5.2	17		38874	2000 SZ ₁₁₉		9 6.1 45°22	4°6/2.9	18	
7 30	23 26.46	- 5 27.7	1.227	2.087	19.4	18.9	7 30	23 26.09	-12 22.3	1.140	2.020	19.2	18.7
8 9	23 22.80	- 6 11.7	1.177	2.104	15.0	18.7	8 9	23 22.80	-13 22.2	1.093	2.032	14.8	18.5
8 19	23 16.26	- 7 12.7	1.145	2.121	9.9	18.5	8 19	23 16.40	-14 32.2	1.065	2.045	9.8	18.2
8 29	23 7.65	- 8 23.6	1.136	2.139	4.3	18.2	8 29	23 7.76	-15 42.5	1.058	2.058	5.4	18.0
9 8	22 58.21	- 9 34.8	1.151	2.157	2.1	18.1	9 8	22 58.21	-16 41.9	1.074	2.072	5.4	18.1
9 18	22 49.31	-10 36.9	1.191	2.175	7.2	18.5	9 18	22 49.26	-17 21.7	1.114	2.086	9.6	18.4
9 28	22 42.24	-11 22.4	1.254	2.193	12.1	18.8	9 28	22 42.28	-17 37.2	1.177	2.101	14.1	18.7
10 8	22 37.83	-11 47.9	1.338	2.210	16.3	19.1	10 8	22 38.14	-17 28.2	1.258	2.116	18.1	19.0
360742	2004 VR ₁₈		9 6.1 336°99	4°4/11.1	18		261731	2006 AB ₅₉		9 6.1 232°00	3°6/10.0	17	
7 30	23 19.57	+ 9 17.5	2.150	2.922	15.1	20.1	7 30	23 25.16	+ 6 19.7	2.715	3.475	12.6	21.3
8 9	23 16.55	+ 9 18.5	2.059	2.918	12.6	19.9	8 9	23 20.47	+ 6 44.1	2.612	3.467	10.4	21.1
8 19	23 11.73	+ 9 0.3	1.988	2.914	9.7	19.8	8 19	23 14.17	+ 6 56.1	2.531	3.457	7.9	21.0
8 29	23 5.54	+ 8 22.7	1.940	2.911	6.7	19.6	8 29	23 6.64	+ 6 55.4	2.476	3.448	5.4	20.8
9 8	22 58.67	+ 7 28.4	1.918	2.907	4.6	19.4	9 8	22 58.45	+ 6 43.3	2.448	3.438	3.7	20.7
9 18	22 51.86	+ 6 21.8	1.922	2.904	5.2	19.5	9 18	22 50.27	+ 6 21.8	2.449	3.428	4.5	20.7
9 28	22 45.95	+ 5 9.1	1.954	2.902	7.9	19.6	9 28	22 42.80	+ 5 54.7	2.479	3.418	6.9	20.9
10 8	22 41.58	+ 3 57.3	2.011	2.899	10.9	19.8	10 8	22 36.67	+ 5 25.9	2.535	3.407	9.5	21.0
428189	2006 UE ₈₇		9 6.1 248°99	3°9/3.0	18		209350	2004 CC ₁₁₆		9 6.1 241°15	1°4/4.8	18	
7 30	23 28.23	-13 31.5	1.660	2.514	15.4	21.7	7 30	23 24.01	- 7 56.5	1.986	2.826	13.8	20.7
8 9	23 23.88	-14 16.2	1.579	2.504	12.0	21.4	8 9	23 20.07	- 8 29.5	1.906	2.823	10.7	20.5
8 19	23 16.96	-15 8.3	1.520	2.494	8.1	21.2	8 19	23 14.12	- 9 12.3	1.848	2.820	7.1	20.3
8 29	23 8.04	-16 1.2	1.485	2.483	4.6	20.9	8 29	23 6.65	-10 0.5	1.815	2.817	3.2	20.1
9 8	22 58.09	-16 46.9	1.476	2.472	4.6	20.9	9 8	22 58.45	-10 48.5	1.810	2.814	2.0	20.0
9 18	22 48.28	-17 18.7	1.494	2.461	8.2	21.1	9 18	22 50.40	-11 30.7	1.832	2.811	5.7	20.2
9 28	22 39.83	-17 31.9	1.537	2.449	12.2	21.3	9 28	22 43.42	-12 2.3	1.881	2.808	9.5	20.4
10 8	22 33.66	-17 25.2	1.601	2.438	15.9	21.5	10 8	22 38.20	-12 20.3	1.953	2.805	12.8	20.6
86890	2000 HN ₃₁		9 6.1 342°64	3°3/8.3	18		379562	2011 AK ₆₉		9 6.1 125°56	0°9/6.9	17	
7 30	23 20.45	+ 1 58.7	1.074	1.930	21.8	18.7	7 30	23 27.88	- 1 44.7	1.845	2.662	15.6	21.8
8 9	23 18.87	+ 2 7.3	1.003	1.922	17.7	18.5	8 9	23 23.06	- 2 1.9	1.775	2.675	12.3	21.6
8 19	23 14.17	+ 1 50.1	0.948	1.915	12.8	18.1	8 19	23 16.08	- 2 33.5	1.726	2.688	8.4	21.4
8 29	23 6.93	+ 1 7.8	0.913	1.909	7.3	17.8	8 29	23 7.52	- 3 16.1	1.702	2.700	4.1	21.2
9 8	22 58.33	+ 0 6.2	0.899	1.904	3.3	17.6	9 8	22 58.27	- 4 4.9	1.705	2.712	1.0	21.0
9 18	22 49.89	- 1 5.5	0.907	1.899	6.9	17.8	9 18	22 49.30	- 4 53.9	1.737	2.724	5.0	21.3
9 28	22 43.18	- 2 15.5	0.937	1.896	12.5	18.1	9 28	22 41.60	- 5 37.4	1.795	2.734	9.0	21.6
10 8	22 39.37	- 3 13.5	0.987	1.894	17.6	18.4	10 8	22 35.86	- 6 10.9	1.878	2.745	12.6	21.8
255239	2005 UM ₄₄₆		9 6.1 298°11	4°2/10.4	18		396294	2014 DK ₂₀		9 6.1 262°28	0°5/7.1	16	
7 30	23 22.08	+ 7 23.4	2.159	2.936									

EPHEMERIDES

9 6.1

9 6.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
129026	Conormcmenamin	9 6.1 318°22	8:7/27.3 18				335038	2004 RK ₂₄	9 6.2 62°75	0°3/ 5.9 17			
7 30	23 26.26	-31 25.1	2.162	3.011	12.5	19.3	7 30	23 19.01	+ 6 34.6	0.971	1.822	24.1	20.0
8 9	23 21.88	-32 38.0	2.103	3.004	10.6	19.2	8 9	23 17.80	+ 3 56.4	0.913	1.833	19.0	19.7
8 19	23 15.33	-33 43.7	2.067	2.998	9.1	19.1	8 19	23 13.40	+ 0 29.2	0.872	1.844	12.8	19.4
8 29	23 7.19	-34 34.2	2.055	2.992	8.7	19.0	8 29	23 6.54	- 3 34.9	0.854	1.856	5.8	19.1
9 8	22 58.35	-35 3.1	2.067	2.986	9.5	19.1	9 8	22 58.53	- 7 51.7	0.861	1.867	1.6	18.8
9 18	22 49.78	-35 6.7	2.104	2.981	11.3	19.2	9 18	22 50.94	-11 53.0	0.894	1.879	8.6	19.3
9 28	22 42.45	-34 44.4	2.164	2.975	13.3	19.3	9 28	22 45.28	-15 15.6	0.951	1.892	14.8	19.7
10 8	22 37.10	-33 58.4	2.242	2.970	15.3	19.5	10 8	22 42.56	-17 48.2	1.029	1.904	19.8	20.1
431417	2007 HB ₉₀	9 6.1 66°49	4°3/ 2.1 18				427676	2004 CZ ₄₆	9 6.2 167°57	0°9/ 5.4 17			
7 30	23 23.58	-12 26.6	1.550	2.415	15.8	20.3	7 30	23 29.23	- 6 48.2	1.869	2.699	15.0	22.1
8 9	23 20.17	-13 49.4	1.495	2.426	12.1	20.1	8 9	23 24.19	- 7 11.1	1.793	2.703	11.6	21.9
8 19	23 14.35	-15 21.2	1.461	2.438	8.0	19.9	8 19	23 16.91	- 7 44.6	1.738	2.707	7.7	21.7
8 29	23 6.77	-16 53.3	1.451	2.449	4.8	19.8	8 29	23 7.96	- 8 24.5	1.708	2.710	3.5	21.5
9 8	22 58.45	-18 15.6	1.468	2.461	5.2	19.8	9 8	22 58.23	- 9 5.2	1.706	2.712	1.5	21.3
9 18	22 50.47	-19 20.1	1.510	2.472	8.6	20.1	9 18	22 48.72	- 9 41.3	1.732	2.714	5.7	21.6
9 28	22 43.93	-20 1.8	1.577	2.484	12.3	20.3	9 28	22 40.45	-10 7.9	1.785	2.715	9.7	21.9
10 8	22 39.58	-20 19.3	1.664	2.496	15.6	20.5	10 8	22 34.20	-10 22.0	1.862	2.716	13.3	22.1
69357	1994 FU	9 6.1 260°72	11°0/17.3 18				442750	2012 WG ₂₄	9 6.2 48°88	7°2/13.2 17			
7 30	23 24.03	+24 26.6	1.882	2.557	19.9	19.6	7 30	23 22.66	+13 50.0	1.651	2.413	19.4	20.1
8 9	23 20.77	+25 8.4	1.773	2.537	18.1	19.4	8 9	23 19.41	+14 17.4	1.582	2.425	16.5	19.9
8 19	23 15.06	+25 22.0	1.679	2.515	15.9	19.2	8 19	23 13.85	+14 18.5	1.530	2.439	13.3	19.7
8 29	23 7.30	+25 1.5	1.602	2.493	13.6	19.0	8 29	23 6.59	+13 51.9	1.499	2.452	10.0	19.6
9 8	22 58.27	+24 3.8	1.546	2.471	11.7	18.8	9 8	22 58.54	+12 59.5	1.491	2.466	7.6	19.5
9 18	22 49.06	+22 30.1	1.513	2.448	11.0	18.7	9 18	22 50.74	+11 46.7	1.508	2.480	7.5	19.5
9 28	22 40.86	+20 27.0	1.505	2.424	12.0	18.7	9 28	22 44.22	+10 21.9	1.550	2.495	9.7	19.7
10 8	22 34.73	+18 5.8	1.521	2.400	14.3	18.8	10 8	22 39.79	+ 8 55.0	1.615	2.509	12.7	19.9
240691	2005 EL ₂₃₄	9 6.1 34°10	1°1/ 5.2 18				340174	2005 Y7 ₁₇₆	9 6.2 56°08	2°2/ 7.9 17			
7 30	23 26.10	- 7 55.4	1.780	2.622	15.1	20.4	7 30	23 25.86	+ 0 27.9	1.528	2.354	17.9	20.2
8 9	23 21.86	- 8 10.9	1.706	2.624	11.7	20.2	8 9	23 21.91	+ 0 29.9	1.465	2.368	14.2	20.0
8 19	23 15.38	- 8 36.1	1.654	2.626	7.7	19.9	8 19	23 15.51	+ 0 14.2	1.422	2.382	10.0	19.8
8 29	23 7.24	- 9 6.7	1.627	2.629	3.5	19.7	8 29	23 7.34	- 0 17.0	1.401	2.396	5.4	19.6
9 8	22 58.34	- 9 37.4	1.626	2.631	1.7	19.6	9 8	22 58.40	- 0 58.9	1.405	2.410	2.2	19.4
9 18	22 49.67	-10 3.0	1.652	2.634	5.8	19.9	9 18	22 49.81	- 1 45.0	1.436	2.425	5.4	19.7
9 28	22 42.25	-10 19.0	1.704	2.636	9.9	20.1	9 28	22 42.67	- 2 28.4	1.492	2.440	9.8	19.9
10 8	22 36.85	-10 22.8	1.779	2.639	13.5	20.3	10 8	22 37.77	- 3 3.6	1.571	2.455	13.6	20.2
92269	2000 CM ₂	9 6.1 290°74	1°8/ 4.7 17				148305	2000 KD ₅₅	9 6.2 82°49	4°3/ 2.4 18			
7 30	23 31.00	-12 19.2	2.309	3.136	12.5	18.8	7 30	23 25.97	-13 22.3	1.563	2.425	15.8	19.5
8 9	23 25.39	-12 14.8	2.201	3.111	9.8	18.6	8 9	23 21.99	-14 32.0	1.508	2.437	12.1	19.3
8 19	23 17.68	-12 13.6	2.117	3.085	6.6	18.4	8 19	23 15.56	-15 49.2	1.474	2.449	8.1	19.1
8 29	23 8.33	-12 12.4	2.059	3.060	3.2	18.1	8 29	23 7.35	-17 5.5	1.465	2.462	4.8	18.9
9 8	22 58.08	-12 7.6	2.031	3.034	2.2	18.0	9 8	22 58.40	-18 11.8	1.481	2.474	5.1	18.9
9 18	22 47.81	-11 56.0	2.032	3.008	5.6	18.2	9 18	22 49.84	-19 0.9	1.524	2.486	8.5	19.2
9 28	22 38.47	-11 35.4	2.061	2.981	9.2	18.4	9 28	22 42.77	-19 28.5	1.591	2.498	12.2	19.4
10 8	22 30.86	-11 4.8	2.116	2.955	12.5	18.5	10 8	22 37.96	-19 33.8	1.679	2.510	15.5	19.7
95384	2002 CG ₁₇₀	9 6.1 107°85	1°9/ 4.1 18				118461	1999 XJ ₁₀	9 6.2 287°73	6°4/13.2 18			
7 30	23 25.13	-10 54.7	2.359	3.195	12.1	19.3	7 30	23 21.65	+14 19.1	2.303	3.034	15.3	20.0
8 9	23 20.48	-11 22.1	2.290	3.206	9.2	19.1	8 9	23 18.20	+14 48.9	2.200	3.021	13.2	19.8
8 19	23 14.13	-11 54.9	2.245	3.216	6.1	19.0	8 19	23 12.90	+14 59.7	2.116	3.008	10.8	19.6
8 29	23 6.58	-12 29.3	2.226	3.227	2.9	18.8	8 29	23 6.17	+14 49.7	2.054	2.995	8.4	19.4
9 8	22 58.52	-13 0.6	2.236	3.237	2.4	18.8	9 8	22 58.64	+14 19.1	2.016	2.982	6.7	19.3
9 18	22 50.69	-13 25.0	2.274	3.248	5.3	19.0	9 18	22 51.08	+13 30.4	2.005	2.970	6.6	19.3
9 28	22 43.85	-13 39.5	2.340	3.258	8.4	19.2	9 28	22 44.33	+12 28.6	2.021	2.957	8.4	19.4
10 8	22 38.55	-13 42.4	2.431	3.268	11.1	19.4	10 8	22 39.10	+11 20.3	2.062	2.944	10.9	19.5
121828	2000 BH ₁₃	9 6.2 274°68	0°3/ 5.7 18				466239	2013 BU ₁₆	9 6.2 349°77	0°3/ 6.7 17			
7 30	23 21.30	- 4 59.7	2.399	3.225	12.2	20.3	7 30	23 14.84	- 2 46.7	4.323	5.127	7.5	21.8
8 9	23 17.71	- 5 28.9	2.303	3.211	9.5	20.1	8 9	23 11.93	- 3 11.4	4.233	5.127	5.9	21.6
8 19	23 12.44	- 6 8.6	2.229	3.197	6.4	19.9	8 19	23 8.18	- 3 42.4	4.167	5.127	4.0	21.5
8 29	23 5.89	- 6 55.6	2.182	3.183	2.9	19.6	8 29	23 3.83	- 4 17.9	4.128	5.127	1.9	21.4
9 8	22 58.66	- 7 45.6	2.162	3.169	0.9	19.4	9 8	22 59.21	- 4 55.8	4.120	5.127	0.4	21.2
9 18	22 51.47	- 8 33.8	2.171	3.154	4.5	19.7	9 18	22 54.63	- 5 33.8	4.141	5.126	2.4	21.4
9 28	22 45.06	- 9 15.6	2.208	3.140	8.0	19.9	9 28	22 50.46	- 6 9.6	4.191	5.126	4.5	21.6
10 8	22 40.06	- 9 47.4	2.269	3.125	11.1	20.0	10 8	22 46.99	- 6 41.0	4.269	5.126	6.3	21.7
182308	2001 OU ₄₁	9 6.2 29°81	5°9/ 1.4 18				494398	2016 UE ₅₈	9 6.2 271°03	1°0/ 5.3 16			
7 30	23 23.49	-15 19.2	1.271	2.153	17.5	19.7	7 30	23 28.90	- 8 21.4	2.056	2.885	13.8	21.9
8 9	23 20.63	-16 38.7	1.220	2.159	13.5	19.5	8 9	23 24.05	- 8 29.1	1.951	2.862	10.8	21.6
8 19	23 14.92	-18 5.4	1.189	2.167	9.3	19.3	8 19	23 16.96	- 8 44.8	1.869	2.838	7.3	21.4
8 29	23 7.11	-19 28.5	1.180	2.175	6.2	19.1	8 29	23 8.09	- 9 5.3	1.813	2.814	3.3	21.1
9 8	22 58.40	-20 36.9	1.195	2.184	6.9	19.2	9 8	22 58.22	- 9 26.1	1.784	2.790	1.5	20.9
9 18	22 50.14	-21 22.1	1.234	2.193	10.4	19.4	9 18	22 48.29	- 9 42.8	1.784	2.765	5.6	21.1
9 28	22 43.62	-21 39.8	1.295	2.203	14.4	19.7	9 28	22 39.34	- 9 51.3	1.812	2.740	9.7	21.3
10 8	22 39.68	-21 30.4	1.375	2.214	17.9	19.9	10 8	22 32.24	- 9 48.9	1.863	2.715	13.3	21.5
214065	2004 FR ₁₀₈	9 6.2 248°09	1°5/ 7.8 18				308714	2006 GY ₃₅	9 6.2 153°60	3°1/ 3.2 17			
7 30	23 22.42	+ 1 34.0	2.412	3.210									

EPHEMERIDES

9 6.2

9 6.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
449424	2013 <i>HB</i> ₆₃		9 6.2 67°77	3:4/10.1 18			396046	2013 <i>CK</i> ₃₇		9 6.2 68°89	6:9/29.1 18		
7 30	23 20.64	+ 6 48.4	2.240	3.020	14.3	21.1	7 30	23 23.22	-23 16.8	2.012	2.875	12.8	20.0
8 9	23 17.24	+ 6 39.1	2.156	3.025	11.8	20.9	8 9	23 19.50	-24 51.3	1.962	2.884	10.2	19.8
8 19	23 12.13	+ 6 12.3	2.094	3.029	8.8	20.7	8 19	23 13.74	-26 24.2	1.935	2.893	7.9	19.7
8 29	23 5.75	+ 5 29.1	2.055	3.034	5.7	20.5	8 29	23 6.51	-27 47.0	1.934	2.902	6.9	19.7
9 8	22 58.78	+ 4 32.6	2.043	3.039	3.4	20.4	9 8	22 58.64	-28 52.1	1.959	2.912	7.8	19.7
9 18	22 51.93	+ 3 27.7	2.058	3.044	4.5	20.5	9 18	22 51.06	-29 34.6	2.009	2.921	10.0	19.9
9 28	22 45.96	+ 2 20.1	2.102	3.049	7.4	20.7	9 28	22 44.66	-29 52.1	2.083	2.931	12.4	20.1
10 8	22 41.50	+ 1 15.9	2.171	3.054	10.4	20.9	10 8	22 40.10	-29 45.8	2.177	2.940	14.7	20.3
147839	2005 <i>TQ</i> ₁₆₇		9 6.2 355°66	0°6/ 6.7 18			186951	2004 <i>RO</i> ₅₂		9 6.2 24°76	0°3/ 6.6 18		
7 30	23 21.44	- 2 33.4	1.859	2.691	15.0	20.1	7 30	23 19.14	- 1 0.4	1.981	2.807	14.4	19.8
8 9	23 18.23	- 2 50.7	1.779	2.689	11.8	19.9	8 9	23 16.30	- 1 49.7	1.904	2.811	11.2	19.6
8 19	23 12.98	- 3 21.9	1.721	2.687	8.0	19.7	8 19	23 11.61	- 2 55.0	1.849	2.815	7.6	19.4
8 29	23 6.20	- 4 4.0	1.686	2.686	3.9	19.4	8 29	23 5.56	- 4 12.3	1.819	2.819	3.6	19.2
9 8	22 58.68	- 4 52.1	1.678	2.685	0.8	19.2	9 8	22 58.86	- 5 35.5	1.817	2.824	0.7	19.0
9 18	22 51.30	- 5 40.4	1.697	2.685	5.0	19.5	9 18	22 52.32	- 6 57.5	1.842	2.829	4.8	19.3
9 28	22 45.00	- 6 23.2	1.742	2.685	9.0	19.8	9 28	22 46.76	- 8 11.6	1.894	2.834	8.6	19.5
10 8	22 40.49	- 6 55.8	1.811	2.686	12.6	20.0	10 8	22 42.84	- 9 12.5	1.971	2.839	12.0	19.8
444105	2004 <i>TR</i> ₅₉		9 6.2 328°35	1°1/ 5.1 17			204240	2004 <i>DL</i> ₄₂		9 6.2 82°57	1°1/ 7.0 18		
7 30	23 20.87	- 7 7.8	1.863	2.711	14.3	21.1	7 30	23 29.17	- 3 19.7	2.001	2.816	14.7	20.0
8 9	23 17.88	- 7 35.8	1.777	2.698	11.1	20.9	8 9	23 23.90	- 3 4.9	1.930	2.828	11.5	19.8
8 19	23 12.82	- 8 15.1	1.712	2.685	7.4	20.6	8 19	23 16.58	- 3 0.5	1.880	2.841	7.9	19.6
8 29	23 6.16	- 9 1.5	1.671	2.673	3.3	20.4	8 29	23 7.80	- 3 4.5	1.855	2.853	3.9	19.4
9 8	22 58.68	- 9 49.2	1.656	2.662	1.7	20.2	9 8	22 58.37	- 3 13.8	1.859	2.865	1.1	19.2
9 18	22 51.28	-10 32.4	1.669	2.651	5.8	20.5	9 18	22 49.23	- 3 24.9	1.890	2.877	4.6	19.5
9 28	22 44.91	-11 5.7	1.707	2.641	9.8	20.7	9 28	22 41.28	- 3 34.0	1.949	2.889	8.4	19.7
10 8	22 40.34	-11 25.2	1.768	2.631	13.4	20.9	10 8	22 35.20	- 3 37.8	2.034	2.901	11.7	20.0
445446	2010 <i>UM</i> ₇₈		9 6.2 320°67	0°5/ 6.5 17			53910	Janfischer		9 6.2 283°72	0°0/ 6.0 18		
7 30	23 24.68	- 4 42.3	1.899	2.731	14.7	21.0	7 30	23 24.60	- 3 48.5	1.570	2.411	16.8	19.3
8 9	23 20.81	- 4 35.8	1.808	2.718	11.6	20.8	8 9	23 21.25	- 4 9.7	1.482	2.397	13.3	19.0
8 19	23 14.77	- 4 39.6	1.738	2.705	7.9	20.5	8 19	23 15.36	- 4 47.0	1.414	2.384	9.0	18.7
8 29	23 7.07	- 4 51.7	1.693	2.693	3.8	20.2	8 29	23 7.44	- 5 36.8	1.369	2.370	4.2	18.4
9 8	22 58.48	- 5 8.2	1.674	2.681	0.8	20.0	9 8	22 58.42	- 6 32.9	1.350	2.357	0.9	18.2
9 18	22 49.96	- 5 25.0	1.682	2.670	5.1	20.3	9 18	22 49.43	- 7 28.0	1.357	2.343	6.1	18.5
9 28	22 42.49	- 5 37.7	1.717	2.659	9.2	20.5	9 28	22 41.69	- 8 14.7	1.389	2.330	11.0	18.7
10 8	22 36.89	- 5 42.8	1.776	2.648	12.9	20.7	10 8	22 36.19	- 8 47.5	1.443	2.317	15.2	19.0
311141	2004 <i>RS</i> ₂₀₀		9 6.2 1°42	7°7/10.2 18			399140	2014 <i>ES</i> ₂₀		9 6.2 285°41	1°2/ 3.9 16		
7 30	23 21.09	+ 4 22.2	0.882	1.745	24.9	19.2	7 30	23 16.76	-11 17.2	4.245	5.074	7.2	21.0
8 9	23 19.88	+ 5 53.3	0.824	1.741	20.8	18.9	8 9	23 13.44	-11 39.6	4.156	5.068	5.5	20.9
8 19	23 15.13	+ 7 0.0	0.780	1.739	16.0	18.6	8 19	23 9.20	-12 5.1	4.093	5.063	3.6	20.7
8 29	23 7.50	+ 7 37.4	0.753	1.739	11.1	18.4	8 29	23 4.33	-12 31.5	4.057	5.057	1.8	20.6
9 8	22 58.38	+ 7 45.0	0.745	1.741	7.8	18.2	9 8	22 59.16	-12 56.4	4.051	5.052	1.5	20.6
9 18	22 49.54	+ 7 27.1	0.757	1.745	9.2	18.3	9 18	22 54.04	-13 17.9	4.075	5.047	3.3	20.7
9 28	22 42.80	+ 6 53.1	0.788	1.751	13.6	18.6	9 28	22 49.35	-13 33.9	4.128	5.041	5.2	20.8
10 8	22 39.40	+ 6 15.1	0.837	1.758	18.4	18.9	10 8	22 45.43	-13 43.2	4.207	5.036	7.0	20.9
318612	2005 <i>JT</i> ₆₆		9 6.2 85°75	1°5/ 7.4 17			445359	2010 <i>NU</i> ₁₁₇		9 6.2 343°20	8°5/ 12.9 18		
7 30	23 28.57	- 0 14.8	1.511	2.335	18.1	21.5	7 30	23 23.46	+13 12.0	1.681	2.443	19.0	19.7
8 9	23 23.95	- 0 28.9	1.454	2.357	14.3	21.3	8 9	23 20.29	+14 25.1	1.594	2.435	16.5	19.5
8 19	23 16.84	- 1 1.2	1.416	2.377	9.9	21.1	8 19	23 13.69	+15 17.1	1.524	2.427	13.7	19.3
8 29	23 7.94	- 1 47.9	1.401	2.398	5.0	20.9	8 29	23 7.14	+15 44.1	1.474	2.419	10.8	19.1
9 8	22 58.33	- 2 43.2	1.412	2.418	1.5	20.7	9 8	22 58.49	+15 44.7	1.447	2.413	8.8	19.0
9 18	22 49.17	- 3 39.7	1.450	2.438	5.5	21.0	9 18	22 49.83	+15 20.5	1.445	2.407	8.8	19.0
9 28	22 41.57	- 4 30.3	1.513	2.458	10.0	21.3	9 28	22 42.33	+14 37.1	1.466	2.403	10.9	19.1
10 8	22 36.29	- 5 9.6	1.600	2.477	13.8	21.6	10 8	22 36.94	+13 42.8	1.509	2.399	13.8	19.3
304531	2006 <i>UL</i> ₂₆₉		9 6.2 232°15	2°6/ 8.9 18			416069	2002 <i>MZ</i> ₄		9 6.2 112°41	10°6/ 25.8 17		
7 30	23 21.94	+ 3 53.6	2.122	2.918	14.6	21.3	7 30	23 29.43	-28 53.6	1.628	2.489	15.3	20.7
8 9	23 18.38	+ 3 43.9	2.035	2.917	11.8	21.1	8 9	23 24.92	-31 23.4	1.595	2.506	12.8	20.6
8 19	23 12.98	+ 3 17.7	1.969	2.916	8.6	20.9	8 19	23 17.65	-33 45.1	1.586	2.523	11.0	20.5
8 29	23 6.19	+ 2 36.4	1.927	2.915	5.1	20.7	8 29	23 8.37	-35 45.4	1.602	2.540	10.7	20.5
9 8	22 58.70	+ 1 43.4	1.912	2.913	2.7	20.5	9 8	22 58.26	-37 13.9	1.642	2.556	11.9	20.6
9 18	22 51.32	+ 0 43.8	1.924	2.912	4.5	20.6	9 18	22 48.61	-38 5.4	1.705	2.571	14.0	20.8
9 28	22 44.86	- 0 16.5	1.964	2.911	7.9	20.8	9 28	22 40.69	-38 19.9	1.789	2.586	16.2	21.0
10 8	22 40.01	- 1 11.8	2.029	2.909	11.2	21.0	10 8	22 35.31	-38 1.8	1.890	2.600	18.2	21.2
442816	2013 <i>AJ</i> ₅₂		9 6.2 258°80	1°4/ 7.3 18			474551	2003 <i>XV</i> ₂₀		9 6.2 329°82	0°2/ 6.0 17		
7 30	23 28.15	- 2 3.0	2.129	2.937	14.1	21.3	7 30	23 19.64	- 5 40.2	1.270	2.139	18.3	20.9
8 9	23 23.31	- 1 50.5	2.028	2.922	11.3	21.1	8 9	23 18.09	- 5 41.4	1.177	2.108	14.6	20.6
8 19	23 16.38	- 1 48.7	1.949	2.906	7.9	20.8	8 19	23 13.69	- 5 57.9	1.101	2.079	10.0	20.2
8 29	23 7.80	- 1 56.3	1.895	2.890	4.1	20.6	8 29	23 6.85	- 6 26.7	1.047	2.050	4.6	19.9
9 8	22 58.32	- 2 10.7	1.868	2.874	1.4	20.3	9 8	22 58.54	- 7 1.9	1.015	2.022	1.2	19.5
9 18	22 48.83	- 2 28.2	1.871	2.857	4.7	20.5	9 18	22 50.06	- 7 36.1	1.007	1.996	7.1	19.8
9 28	22 40.29	- 2 44.7	1.901	2.841	8.6	20.7	9 28	22 42.94	- 8 1.2	1.021	1.972	12.8	20.1
10 8	22 33.49	- 2 56.4	1.956	2.823	12.1	20.9	10 8	22 38.40	- 8 11.4	1.055	1.949	17.9	20.3
58227	1993 <i>FB</i> ₂₆		9 6.2 69°17	0°6/ 6.6 18			318422	2005 <i>BG</i> ₁₇		9 6.2 230°35			

EPHEMERIDES

9 6.2

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
304609	2006 <i>VD</i> ₈₄	9 6.2 245°62	4°8/31.6	18			91626	1999 <i>TJ</i> ₅₅	9 6.2 29°80	4°9/12.0	18		
7 30	23 27.57	-21 4.9	2.584	3.425	11.0	22.3	7 30	23 18.87	+11 34.2	1.953	2.721	16.6	19.6
8 9	23 22.54	-21 54.2	2.494	3.407	8.7	22.1	8 9	23 16.17	+11 22.6	1.874	2.727	13.9	19.4
8 19	23 15.68	-22 43.8	2.428	3.389	6.4	22.0	8 19	23 11.58	+10 47.7	1.813	2.734	10.8	19.3
8 29	23 7.43	-23 28.2	2.389	3.369	4.9	21.8	8 29	23 5.59	+9 49.7	1.775	2.742	7.6	19.1
9 8	22 58.46	-24 2.0	2.379	3.350	5.5	21.9	9 8	22 58.94	+8 32.1	1.762	2.750	5.2	19.0
9 18	22 49.56	-24 21.1	2.396	3.330	7.6	22.0	9 18	22 52.44	+7 1.0	1.776	2.758	5.5	19.0
9 28	22 41.54	-24 23.0	2.440	3.309	10.1	22.1	9 28	22 46.95	+5 24.2	1.817	2.766	8.2	19.2
10 8	22 35.06	-24 7.5	2.508	3.287	12.5	22.2	10 8	22 43.14	+3 50.3	1.883	2.775	11.3	19.4
120175	2003 <i>KB</i> ₁₁	9 6.2 40°01	0°3/6.6	18			516443	2004 <i>TY</i> ₁₉₈	9 6.2 355°01	1°1/5.3	18		
7 30	23 19.10	-2 36.9	2.480	3.299	12.0	19.7	7 30	23 20.68	-7 3.8	1.683	2.536	15.3	20.3
8 9	23 15.77	-3 5.1	2.415	3.318	9.3	19.5	8 9	23 17.89	-7 26.1	1.607	2.531	11.9	20.1
8 19	23 10.99	-3 43.7	2.373	3.337	6.3	19.4	8 19	23 12.90	-7 59.9	1.553	2.528	7.9	19.8
8 29	23 5.20	-4 29.8	2.357	3.357	3.0	19.2	8 29	23 6.25	-8 40.9	1.522	2.525	3.5	19.6
9 8	22 58.98	-5 19.1	2.370	3.377	0.6	19.0	9 8	22 58.80	-9 23.2	1.517	2.523	1.7	19.4
9 18	22 52.98	-6 7.5	2.410	3.397	3.8	19.3	9 18	22 51.52	-10 0.6	1.538	2.522	5.9	19.7
9 28	22 47.79	-6 50.7	2.479	3.417	6.9	19.6	9 28	22 45.42	-10 27.8	1.584	2.521	10.1	20.0
10 8	22 43.91	-7 25.5	2.573	3.437	9.7	19.8	10 8	22 41.28	-10 41.2	1.652	2.522	13.8	20.2
175052	2004 <i>FH</i> ₁₀₉	9 6.2 176°71	1°0/5.1	18			507278	2011 <i>FE</i> ₁₀	9 6.2 224°28	1°4/7.5	17		
7 30	23 24.07	-7 7.5	2.092	2.926	13.4	20.5	7 30	23 25.32	+0 37.8	1.962	2.770	15.1	22.6
8 9	23 20.02	-7 36.8	2.013	2.927	10.4	20.3	8 9	23 21.28	+0 12.4	1.867	2.761	12.1	22.4
8 19	23 14.06	-8 15.8	1.956	2.927	6.9	20.1	8 19	23 15.11	-0 29.9	1.794	2.751	8.5	22.2
8 29	23 6.69	-9 0.5	1.925	2.927	3.1	19.9	8 29	23 7.28	-1 26.6	1.745	2.741	4.4	21.9
9 8	22 58.65	-9 45.7	1.922	2.927	1.6	19.8	9 8	22 58.56	-2 33.0	1.724	2.730	1.4	21.7
9 18	22 50.76	-10 26.3	1.947	2.927	5.2	20.0	9 18	22 49.87	-3 42.8	1.730	2.718	4.9	21.9
9 28	22 43.89	-10 57.7	1.998	2.927	8.9	20.2	9 28	22 42.19	-4 49.1	1.765	2.706	9.0	22.1
10 8	22 38.70	-11 17.0	2.074	2.927	12.1	20.4	10 8	22 36.32	-5 45.9	1.823	2.693	12.7	22.3
411742	2012 <i>BY</i> ₈₃	9 6.2 58°50	1°8/7.9	18			147767	2005 <i>QM</i> ₄₄	9 6.2 336°51	1°1/5.2	18		
7 30	23 25.21	-0 28.4	2.222	3.027	13.7	21.0	7 30	23 21.08	-6 20.1	1.794	2.641	14.8	19.7
8 9	23 20.77	-0 17.3	2.139	3.030	10.9	20.8	8 9	23 18.10	-6 55.0	1.713	2.634	11.5	19.5
8 19	23 14.50	-0 17.6	2.077	3.032	7.7	20.6	8 19	23 13.01	-7 42.3	1.654	2.627	7.6	19.2
8 29	23 6.88	-0 28.2	2.041	3.035	4.2	20.4	8 29	23 6.31	-8 37.7	1.619	2.621	3.4	19.0
9 8	22 58.61	-0 46.1	2.033	3.037	1.8	20.3	9 8	22 58.79	-9 34.9	1.610	2.616	1.7	18.8
9 18	22 50.48	-1 8.0	2.052	3.040	4.3	20.5	9 18	22 51.40	-10 27.4	1.628	2.611	5.8	19.1
9 28	22 43.31	-1 29.8	2.100	3.042	7.7	20.7	9 28	22 45.11	-11 9.1	1.672	2.606	9.9	19.3
10 8	22 37.74	-1 47.5	2.172	3.045	10.9	20.9	10 8	22 40.68	-11 36.2	1.738	2.602	13.6	19.6
377084	2002 <i>VX</i> ₆₄	9 6.2 340°78	6°3/2.8	18			430484	2001 <i>ST</i> ₂₄₆	9 6.2 336°95	1°2/5.3	18 R		
7 30	23 26.82	-18 14.7	1.093	1.981	19.2	19.5	7 30	23 18.87	-5 54.2	1.190	2.065	18.9	19.9
8 9	23 24.03	-18 35.5	1.026	1.967	15.2	19.2	8 9	23 17.47	-6 23.4	1.114	2.050	14.8	19.6
8 19	23 17.74	-18 58.3	0.976	1.954	10.7	18.9	8 19	23 13.20	-7 11.1	1.056	2.035	10.0	19.3
8 29	23 8.67	-19 13.9	0.947	1.943	7.0	18.6	8 29	23 6.59	-8 12.0	1.019	2.022	4.5	19.0
9 8	22 58.19	-19 12.9	0.939	1.933	7.1	18.6	9 8	22 58.72	-9 17.4	1.004	2.010	2.0	18.8
9 18	22 48.04	-18 48.8	0.954	1.924	11.1	18.8	9 18	22 50.94	-10 17.2	1.012	1.999	7.6	19.1
9 28	22 39.91	-17 59.7	0.989	1.917	15.8	19.1	9 28	22 44.69	-11 2.2	1.043	1.990	13.1	19.4
10 8	22 34.99	-16 47.8	1.043	1.911	20.2	19.3	10 8	22 41.08	-11 26.7	1.093	1.982	17.9	19.6
488314	2016 <i>UK</i> ₇₇	9 6.2 250°84	1°3/7.7	18			242368	2004 <i>CN</i> ₃₆	9 6.2 50°60	1°2/5.0	17		
7 30	23 21.51	+1 6.6	2.230	3.036	13.6	21.6	7 30	23 23.05	-4 21.0	1.593	2.437	16.4	19.2
8 9	23 18.04	+0 37.2	2.134	3.026	10.9	21.4	8 9	23 19.48	-5 30.4	1.550	2.469	12.6	19.1
8 19	23 12.78	-0 7.8	2.059	3.015	7.6	21.2	8 19	23 13.74	-6 54.1	1.527	2.500	8.2	18.9
8 29	23 6.14	-1 6.0	2.009	3.004	4.0	21.0	8 29	23 6.52	-8 25.3	1.530	2.532	3.6	18.7
9 8	22 58.77	-2 13.1	1.986	2.992	1.3	20.8	9 8	22 58.79	-9 55.2	1.559	2.564	1.8	18.6
9 18	22 51.43	-3 23.6	1.993	2.981	4.3	21.0	9 18	22 51.52	-11 15.5	1.615	2.596	6.0	19.0
9 28	22 44.93	-4 31.3	2.027	2.969	8.0	21.2	9 28	22 45.64	-12 19.9	1.697	2.628	10.0	19.3
10 8	22 39.95	-5 30.8	2.086	2.957	11.3	21.4	10 8	22 41.76	-13 5.1	1.802	2.661	13.4	19.6
385330	2002 <i>CL</i> ₂₆₉	9 6.2 331°68	0°3/5.7	17			168433	1998 <i>UM</i> ₅	9 6.2 3°32	3°0/3.9	18		
7 30	23 17.60	-6 57.5	4.090	4.906	7.7	20.0	7 30	23 19.02	-9 55.1	1.224	2.106	18.0	19.1
8 9	23 14.10	-7 7.4	4.000	4.903	6.0	19.8	8 9	23 17.31	-10 36.4	1.164	2.104	13.9	18.8
8 19	23 9.66	-7 21.7	3.934	4.900	3.9	19.7	8 19	23 12.86	-11 30.5	1.122	2.104	9.2	18.6
8 29	23 4.56	-7 38.7	3.896	4.897	1.8	19.5	8 29	23 6.32	-12 29.9	1.103	2.106	4.5	18.3
9 8	22 59.15	-7 56.5	3.888	4.894	0.6	19.4	9 8	22 58.81	-13 25.2	1.106	2.109	3.8	18.3
9 18	22 53.80	-8 13.0	3.909	4.891	2.8	19.6	9 18	22 51.62	-14 7.8	1.133	2.113	8.3	18.6
9 28	22 48.90	-8 26.3	3.960	4.889	4.9	19.7	9 28	22 46.03	-14 31.3	1.182	2.119	12.9	18.9
10 8	22 44.80	-8 34.7	4.038	4.886	6.8	19.9	10 8	22 42.91	-14 33.2	1.251	2.126	17.0	19.1
219307	2000 <i>DN</i> ₁₁₂	9 6.2 161°05	0°1/6.1	17			73361	2002 <i>KD</i> ₅	9 6.2 20°90	4°0/2.3	18		
7 30	23 27.39	-3 41.8	2.149	2.964	13.8	22.1	7 30	23 22.26	-15 2.0	1.857	2.719	13.7	19.1
8 9	23 22.49	-4 15.7	2.070	2.972	10.7	21.9	8 9	23 18.84	-15 51.6	1.796	2.724	10.5	18.9
8 19	23 15.66	-5 1.7	2.014	2.979	7.2	21.7	8 19	23 13.36	-16 45.8	1.757	2.731	7.2	18.7
8 29	23 7.42	-5 56.1	1.985	2.985	3.3	21.5	8 29	23 6.40	-17 38.0	1.742	2.738	4.4	18.6
9 8	22 58.52	-6 53.8	1.983	2.990	0.8	21.3	9 8	22 58.81	-18 21.7	1.754	2.746	4.7	18.6
9 18	22 49.80	-7 49.2	2.011	2.995	4.8	21.6	9 18	22 51.49	-18 51.5	1.793	2.754	7.5	18.8
9 28	22 42.13	-8 37.0	2.067	2.999	8.5	21.8	9 28	22 45.35	-19 4.2	1.856	2.763	10.8	19.0
10 8	22 36.17	-9 13.6	2.148	3.002	11.7	22.1	10 8	22 41.06	-18 58.8	1.941	2.772	13.8	19.2
439329	2012 <i>WQ</i> ₁₆	9 6.2 18°70	5°0/10.5	18			73191	2002 <i>JY</i> ₁	9 6.2 92°11	2°3/3.9	18		
7 30	23 21.99	+7 13.4	1.541	2.345	1								

EPHEMERIDES

9 6.2

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
12531	1998 KQ ₅₁		9 6.2 268°90	0°0/ 6.0 18			99744	2002 JZ ₆₉		9 6.2 120°95	7°6/29.6 18		
7 30	23 20.18	- 2 23.3	2.213	3.036	13.2	17.8	7 30	23 28.50	-25 9.9	1.927	2.782	13.6	19.5
8 9	23 17.01	- 3 12.1	2.123	3.028	10.3	17.6	8 9	23 23.69	-26 32.8	1.877	2.792	10.9	19.4
8 19	23 12.09	- 4 15.0	2.054	3.020	6.9	17.4	8 19	23 16.61	-27 52.1	1.850	2.802	8.6	19.3
8 29	23 5.85	- 5 28.6	2.012	3.012	3.2	17.1	8 29	23 7.91	-28 59.1	1.848	2.812	7.6	19.2
9 8	22 58.92	- 6 47.2	1.997	3.004	0.7	16.9	9 8	22 58.54	-29 46.3	1.872	2.822	8.4	19.3
9 18	22 52.05	- 8 4.6	2.011	2.996	4.7	17.2	9 18	22 49.55	-30 9.2	1.922	2.831	10.5	19.4
9 28	22 46.02	- 9 14.6	2.053	2.988	8.3	17.4	9 28	22 41.94	-30 6.6	1.994	2.840	13.0	19.6
10 8	22 41.50	-10 12.3	2.120	2.980	11.6	17.6	10 8	22 36.42	-29 40.4	2.088	2.848	15.3	19.8
39955	2003 SA ₂₇		9 6.2 338°14	3°6/ 9.1 17			249765	2000 UU ₆₈		9 6.2 9°39	5°2/11.3 18		
7 30	23 25.81	+ 2 52.1	2.029	2.825	15.1	20.2	7 30	23 22.21	+ 9 18.9	1.941	2.715	16.4	19.6
8 9	23 21.55	+ 3 31.7	1.939	2.818	12.4	20.0	8 9	23 18.84	+ 9 42.8	1.858	2.716	13.8	19.4
8 19	23 15.24	+ 3 58.3	1.869	2.812	9.2	19.8	8 19	23 13.45	+ 9 47.1	1.793	2.717	10.7	19.2
8 29	23 7.34	+ 4 11.5	1.823	2.806	5.8	19.6	8 29	23 6.53	+ 9 31.1	1.751	2.719	7.6	19.0
9 8	22 58.60	+ 4 12.7	1.803	2.800	3.6	19.5	9 8	22 58.83	+ 8 56.6	1.734	2.720	5.4	18.9
9 18	22 49.92	+ 4 4.5	1.811	2.795	5.1	19.5	9 18	22 51.24	+ 8 7.6	1.743	2.723	5.9	18.9
9 28	22 42.24	+ 3 50.8	1.846	2.790	8.4	19.7	9 28	22 44.68	+ 7 10.1	1.779	2.725	8.6	19.1
10 8	22 36.33	+ 3 36.3	1.905	2.786	11.7	19.9	10 8	22 39.89	+ 6 11.3	1.839	2.728	11.7	19.3
259688	2003 XN ₂₁		9 6.2 301°72	3°3/ 3.8 18			208611	2002 CP ₂₅₆		9 6.2 162°49	0°8/ 5.6 17		
7 30	23 25.56	-11 1.7	1.353	2.220	17.5	20.6	7 30	23 30.07	- 6 25.3	1.532	2.372	17.2	20.6
8 9	23 22.51	-11 39.2	1.270	2.202	13.7	20.3	8 9	23 25.40	- 6 42.3	1.459	2.375	13.4	20.4
8 19	23 16.51	-12 28.6	1.207	2.185	9.2	20.0	8 19	23 18.06	- 7 12.0	1.407	2.378	9.0	20.1
8 29	23 8.13	-13 23.2	1.165	2.167	4.7	19.7	8 29	23 8.69	- 7 49.8	1.378	2.380	4.0	19.8
9 8	22 58.41	-14 14.0	1.149	2.150	4.1	19.6	9 8	22 58.36	- 8 29.6	1.375	2.382	1.5	19.7
9 18	22 48.72	-14 52.3	1.156	2.133	8.6	19.9	9 18	22 48.30	- 9 4.6	1.399	2.383	6.4	20.0
9 28	22 40.53	-15 11.5	1.187	2.116	13.6	20.1	9 28	22 39.75	- 9 29.1	1.449	2.384	11.1	20.3
10 8	22 34.97	-15 8.8	1.238	2.100	18.0	20.3	10 8	22 33.61	- 9 39.8	1.520	2.385	15.1	20.5
516109	2015 UV ₁₅		9 6.2 78°89	4°2/ 1.9 18			514052	2014 OC ₁₁₉		9 6.2 75°76	2°1/ 8.4 18		
7 30	23 25.44	-17 56.5	2.250	3.099	12.1	21.4	7 30	23 23.83	+ 1 21.6	2.276	3.075	13.6	21.1
8 9	23 20.94	-18 37.4	2.183	3.103	9.4	21.3	8 9	23 19.69	+ 1 27.2	2.193	3.079	10.9	20.9
8 19	23 14.60	-19 19.7	2.139	3.107	6.5	21.1	8 19	23 13.80	+ 1 20.0	2.132	3.083	7.8	20.7
8 29	23 6.94	-19 57.9	2.121	3.112	4.4	21.0	8 29	23 6.62	+ 1 1.3	2.097	3.087	4.5	20.5
9 8	22 58.71	-20 26.8	2.131	3.116	4.8	21.0	9 8	22 58.82	+ 0 33.9	2.088	3.091	2.1	20.4
9 18	22 50.72	-20 42.4	2.169	3.120	7.1	21.2	9 18	22 51.16	+ 0 1.6	2.108	3.095	4.2	20.5
9 28	22 43.78	-20 42.5	2.232	3.124	9.9	21.4	9 28	22 44.42	- 0 31.2	2.155	3.099	7.5	20.8
10 8	22 38.50	-20 26.7	2.319	3.128	12.5	21.5	10 8	22 39.21	- 1 0.3	2.228	3.104	10.5	21.0
256521	2007 EN ₂₀₄		9 6.2 251°70	2°2/ 3.7 18			107809	2001 FL ₅₉		9 6.2 177°68	2°1/ 4.3 18		
7 30	23 22.34	-10 37.7	2.396	3.236	11.8	21.1	7 30	23 27.64	- 8 42.1	1.724	2.567	15.4	20.2
8 9	23 18.56	-11 23.1	2.308	3.226	9.1	20.9	8 9	23 23.25	- 9 27.8	1.650	2.569	11.9	20.0
8 19	23 13.07	-12 15.8	2.244	3.216	6.0	20.7	8 19	23 16.49	-10 24.6	1.597	2.570	7.9	19.7
8 29	23 6.29	-13 11.3	2.206	3.206	3.0	20.5	8 29	23 7.95	-11 26.8	1.569	2.571	3.7	19.5
9 8	22 58.86	-14 4.5	2.196	3.196	2.7	20.4	9 8	22 58.53	-12 27.1	1.568	2.571	2.8	19.4
9 18	22 51.50	-14 50.4	2.214	3.185	5.6	20.6	9 18	22 49.34	-13 18.4	1.594	2.570	6.7	19.7
9 28	22 44.96	-15 24.7	2.260	3.174	8.8	20.8	9 28	22 41.44	-13 55.1	1.646	2.570	10.8	19.9
10 8	22 39.89	-15 45.1	2.330	3.163	11.7	20.9	10 8	22 35.66	-14 14.4	1.721	2.568	14.5	20.1
53649	2000 DH ₄₀		9 6.2 196°43	0°4/ 6.6 18			432759	2011 FP ₅		9 6.2 247°66	4°8/ 1.9 18		
7 30	23 26.19	- 2 7.5	1.945	2.764	14.9	20.6	7 30	23 26.69	-15 14.3	1.742	2.599	14.7	21.2
8 9	23 21.89	- 2 38.1	1.860	2.761	11.7	20.4	8 9	23 22.69	-16 19.9	1.662	2.588	11.4	21.0
8 19	23 15.48	- 3 23.5	1.795	2.759	8.0	20.1	8 19	23 16.24	-17 32.6	1.604	2.577	7.9	20.7
8 29	23 7.45	- 4 20.4	1.756	2.755	3.8	19.9	8 29	23 7.89	-18 44.5	1.571	2.565	5.1	20.6
9 8	22 58.60	- 5 23.3	1.744	2.751	0.7	19.6	9 8	22 58.56	-19 47.1	1.565	2.554	5.6	20.6
9 18	22 49.86	- 6 25.9	1.761	2.747	5.0	19.9	9 18	22 49.33	-20 33.2	1.585	2.541	8.8	20.7
9 28	22 42.19	- 7 21.9	1.804	2.741	9.2	20.2	9 28	22 41.36	-20 57.7	1.629	2.529	12.5	20.9
10 8	22 36.37	- 8 6.4	1.873	2.736	12.8	20.4	10 8	22 35.54	-20 59.7	1.695	2.516	15.9	21.1
119798	2002 AM ₁₂₇		9 6.2 9°31	0°2/ 6.4 18			176101	2001 BQ ₃₇		9 6.2 294°35	3°0/ 8.2 18		
7 30	23 22.48	- 3 30.6	1.995	2.823	14.2	20.3	7 30	23 26.33	+ 0 55.4	1.408	2.238	19.0	20.4
8 9	23 18.92	- 3 50.7	1.915	2.824	11.1	20.1	8 9	23 23.00	+ 1 15.8	1.319	2.223	15.4	20.1
8 19	23 13.41	- 4 23.2	1.858	2.824	7.5	19.8	8 19	23 16.83	+ 1 17.8	1.249	2.208	11.2	19.8
8 29	23 6.47	- 5 4.9	1.825	2.825	3.5	19.6	8 29	23 8.31	+ 1 1.8	1.199	2.193	6.4	19.5
9 8	22 58.83	- 5 51.0	1.819	2.826	0.7	19.4	9 8	22 58.45	+ 0 31.1	1.174	2.178	3.0	19.2
9 18	22 51.35	- 6 36.3	1.841	2.827	4.8	19.7	9 18	22 48.54	- 0 8.8	1.174	2.163	6.3	19.4
9 28	22 44.89	- 7 15.6	1.890	2.829	8.7	19.9	9 28	22 40.00	- 0 50.2	1.198	2.149	11.3	19.7
10 8	22 40.13	- 7 44.6	1.962	2.830	12.0	20.1	10 8	22 33.98	- 1 25.6	1.243	2.135	15.9	19.9
255178	2005 UJ ₂₄₁		9 6.2 165°48	2°5/ 9.3 18			485992	2012 KA ₁₇		9 6.2 195°94	4°5/12.9 18		
7 30	23 20.74	+ 5 9.9	2.413	3.197	13.3	21.0	7 30	23 20.02	+13 37.8	3.067	3.785	12.1	21.8
8 9	23 17.24	+ 4 47.2	2.325	3.199	10.8	20.8	8 9	23 16.40	+13 39.6	2.968	3.783	10.3	21.6
8 19	23 12.14	+ 4 8.3	2.258	3.200	7.9	20.7	8 19	23 11.45	+13 25.7	2.888	3.781	8.3	21.5
8 29	23 5.84	+ 3 14.9	2.216	3.201	4.8	20.5	8 29	23 5.52	+12 55.9	2.833	3.779	6.2	21.3
9 8	22 58.97	+ 2 10.5	2.202	3.203	2.5	20.3	9 8	22 59.10	+12 11.6	2.805	3.776	4.7	21.2
9 18	22 52.19	+ 0 59.9	2.216	3.204	4.0	20.4	9 18	22 52.72	+11 15.6	2.805	3.773	4.7	21.2
9 28	22 46.22	- 0 11.1	2.259	3.204	7.1	20.6	9 28	22 46.96	+10 11.8	2.833	3.770	6.2	21.3
10 8	22 41.64	- 1 17.0	2.328	3.205	10.0	20.8	10 8	22 42.31	+ 9 5.3	2.889	3.767	8.3	21.5
4489	1988 AK		9 6.2 248°69	4°6/26.7 18			198517	2004 XG ₉₂		9 6.2 167°75	8°5/28.9 18		
7 30	23 17.52	-31 7.5	4.513	5.349</									

EPHEMERIDES

9 6.2

9 6.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
384408	2009 <i>WH</i> ₉₃	9 6.2 24°78'	5°6'	1.8	18		151502	2002 <i>JK</i> ₁₂₃	9 6.2 52°46'	0°4'	6.7	18	
7 30	23 24.83	-15 38.6	1.354	2.230	17.0	19.9	7 30	23 19.34	-0 24.8	2.130	2.950	13.7	19.8
8 9	23 21.62	-16 46.2	1.298	2.234	13.1	19.7	8 9	23 16.35	-1 21.8	2.055	2.958	10.8	19.6
8 19	23 15.64	-18 0.2	1.262	2.239	9.1	19.5	8 19	23 11.63	-2 34.3	2.002	2.966	7.3	19.4
8 29	23 7.60	-19 10.9	1.249	2.244	5.9	19.3	8 29	23 5.67	-3 58.5	1.975	2.974	3.5	19.2
9 8	22 58.65	-20 8.2	1.260	2.250	6.5	19.4	9 8	22 59.12	-5 28.1	1.975	2.982	0.6	19.0
9 18	22 50.10	-20 44.5	1.296	2.256	9.9	19.6	9 18	22 52.73	-6 56.4	2.004	2.991	4.5	19.3
9 28	22 43.20	-20 55.7	1.354	2.262	13.8	19.8	9 28	22 47.26	-8 16.8	2.061	2.999	8.1	19.5
10 8	22 38.82	-20 42.0	1.431	2.270	17.4	20.1	10 8	22 43.31	-9 24.1	2.143	3.008	11.3	19.7
167506	2003 <i>YB</i> ₁₀₅	9 6.2 292°83'	3°7'	9.1	17		199962	2007 <i>HB</i> ₅₀	9 6.2 348°04'	1°0'	5.3	18	
7 30	23 25.97	+ 4 7.3	1.967	2.759	15.7	19.9	7 30	23 21.88	- 4 56.8	1.514	2.366	16.8	20.4
8 9	23 22.13	+ 4 25.6	1.846	2.723	13.0	19.7	8 9	23 19.12	- 5 42.9	1.440	2.363	13.1	20.1
8 19	23 15.99	+ 4 28.2	1.744	2.687	9.8	19.4	8 19	23 13.92	- 6 45.6	1.386	2.360	8.7	19.9
8 29	23 7.89	+ 4 14.3	1.666	2.650	6.2	19.1	8 29	23 6.85	- 7 59.6	1.356	2.358	3.9	19.6
9 8	22 58.54	+ 3 45.3	1.614	2.613	3.7	18.9	9 8	22 58.85	- 9 16.5	1.351	2.357	1.7	19.4
9 18	22 48.88	+ 3 4.7	1.590	2.575	5.5	18.9	9 18	22 51.04	-10 27.9	1.372	2.356	6.5	19.7
9 28	22 40.02	+ 2 18.2	1.592	2.537	9.5	19.1	9 28	22 44.53	-11 25.8	1.417	2.355	11.1	20.0
10 8	22 32.97	+ 1 32.3	1.618	2.499	13.5	19.2	10 8	22 40.20	-12 5.3	1.485	2.354	15.1	20.3
482732	2013 <i>EV</i> ₈₆	9 6.2 166°19'	3°9'	1.8	18		142637	2002 <i>TL</i> ₁₈₃	9 6.2 9°88'	2°0'	7.6	17	
7 30	23 24.52	-16 50.5	2.404	3.251	11.5	21.4	7 30	23 20.24	- 0 44.7	1.046	1.913	21.5	18.9
8 9	23 20.17	-17 41.7	2.333	3.253	8.9	21.2	8 9	23 18.67	- 0 39.5	0.988	1.915	17.1	18.6
8 19	23 14.09	-18 35.4	2.286	3.255	6.2	21.0	8 19	23 14.01	- 0 57.2	0.946	1.918	12.0	18.3
8 29	23 6.75	-19 26.3	2.266	3.257	4.1	20.9	8 29	23 6.99	- 1 35.1	0.923	1.923	6.2	18.0
9 8	22 58.84	-20 9.0	2.273	3.258	4.5	20.9	9 8	22 58.83	- 2 26.2	0.923	1.929	2.0	17.8
9 18	22 51.12	-20 39.2	2.309	3.260	6.8	21.1	9 18	22 51.04	- 3 21.3	0.944	1.937	6.7	18.1
9 28	22 44.33	-20 54.2	2.371	3.261	9.5	21.3	9 28	22 45.05	- 4 10.4	0.987	1.945	12.2	18.4
10 8	22 39.09	-20 53.1	2.456	3.262	12.0	21.4	10 8	22 41.88	- 4 45.9	1.051	1.956	17.0	18.8
358435	2007 <i>DU</i> ₄₁	9 6.2 92°36'	4°6'	31.2	18		289950	2005 <i>NE</i> ₅₄	9 6.2 55°63'	2°5'	8.1	17	
7 30	23 22.13	-17 10.4	2.319	3.172	11.6	20.5	7 30	23 26.65	+ 1 25.4	1.316	2.148	19.9	20.9
8 9	23 18.35	-18 40.2	2.264	3.188	8.9	20.4	8 9	23 22.87	+ 1 23.4	1.262	2.168	15.9	20.6
8 19	23 12.87	-20 12.7	2.235	3.203	6.3	20.3	8 19	23 16.37	+ 1 0.0	1.227	2.187	11.1	20.4
8 29	23 6.19	-21 41.0	2.232	3.218	4.7	20.2	8 29	23 7.92	+ 0 18.1	1.213	2.208	6.1	20.2
9 8	22 58.98	-22 58.5	2.257	3.233	5.3	20.3	9 8	22 58.67	- 0 36.3	1.223	2.228	2.5	20.0
9 18	22 51.99	-23 59.7	2.311	3.248	7.6	20.4	9 18	22 49.90	- 1 35.0	1.259	2.249	5.8	20.3
9 28	22 45.96	-24 41.5	2.390	3.263	10.1	20.6	9 28	22 42.83	- 2 29.8	1.319	2.270	10.5	20.6
10 8	22 41.46	-25 3.2	2.491	3.277	12.4	20.8	10 8	22 38.26	- 3 14.0	1.401	2.290	14.6	21.0
13862	1999 <i>XT</i> ₁₆₀	9 6.2 300°00'	1°0'	4.2	17		395978	2013 <i>BL</i> ₂₄	9 6.2 53°37'	3°4'	2.5	18	
7 30	23 15.28	- 9 42.6	4.269	5.097	7.2	18.8	7 30	23 21.43	-11 4.3	1.835	2.691	14.1	20.4
8 9	23 12.37	-10 15.9	4.179	5.091	5.5	18.7	8 9	23 18.26	-12 23.6	1.772	2.699	10.7	20.2
8 19	23 8.57	-10 53.2	4.115	5.085	3.6	18.5	8 19	23 13.06	-13 52.1	1.732	2.708	7.1	20.0
8 29	23 4.15	-11 32.2	4.078	5.079	1.7	18.4	8 29	23 6.36	-15 22.7	1.717	2.716	3.9	19.8
9 8	22 59.43	-12 10.4	4.071	5.073	1.3	18.4	9 8	22 58.99	-16 46.9	1.730	2.725	4.1	19.8
9 18	22 54.75	-12 45.5	4.094	5.067	3.1	18.5	9 18	22 51.85	-17 57.5	1.769	2.734	7.3	20.1
9 28	22 50.48	-13 15.3	4.145	5.061	5.1	18.6	9 28	22 45.86	-18 49.2	1.834	2.743	10.8	20.3
10 8	22 46.94	-13 38.1	4.223	5.055	6.9	18.8	10 8	22 41.69	-19 19.8	1.922	2.752	13.9	20.5
387642	2002 <i>QJ</i> ₇₉	9 6.2 345°96'	1°1'	7.2	18		805	Hormuthia	9 6.2 30°45'	0°4'	6.7	18	
7 30	23 21.20	- 0 18.0	1.686	2.517	16.3	21.3	7 30	23 17.94	+ 0 19.1	1.851	2.680	15.2	14.1
8 9	23 18.34	- 0 44.6	1.606	2.514	12.9	21.1	8 9	23 15.50	- 0 47.3	1.784	2.691	11.9	13.9
8 19	23 13.27	- 1 29.4	1.547	2.511	8.9	20.8	8 19	23 11.18	- 2 12.1	1.737	2.703	8.0	13.7
8 29	23 6.51	- 2 29.0	1.510	2.508	4.5	20.6	8 29	23 5.49	- 3 50.4	1.715	2.715	3.8	13.5
9 8	22 58.90	- 3 37.8	1.500	2.506	1.1	20.3	9 8	22 59.18	- 5 34.8	1.721	2.728	0.7	13.3
9 18	22 51.43	- 4 48.4	1.516	2.505	5.2	20.6	9 18	22 53.09	- 7 16.8	1.754	2.742	4.9	13.6
9 28	22 45.11	- 5 53.2	1.557	2.503	9.6	20.9	9 28	22 48.03	- 8 48.4	1.815	2.756	8.8	13.9
10 8	22 40.74	- 6 45.9	1.622	2.502	13.5	21.1	10 8	22 44.65	-10 3.9	1.900	2.770	12.3	14.2
205120	1999 <i>VQ</i> ₈₂	9 6.2 303°87'	9°5'	27.5	18		475378	2006 <i>ES</i> ₇₃	9 6.2 185°55'	1°4'	7.8	16	
7 30	23 24.52	-26 6.3	1.624	2.495	14.9	19.9	7 30	23 23.76	+ 1 29.5	2.112	2.916	14.4	22.0
8 9	23 21.47	-27 49.1	1.550	2.473	12.3	19.7	8 9	23 19.86	+ 0 57.5	2.026	2.916	11.5	21.8
8 19	23 15.70	-29 31.4	1.498	2.451	10.2	19.5	8 19	23 14.06	+ 0 9.1	1.960	2.915	8.0	21.5
8 29	23 7.75	-31 1.8	1.469	2.430	9.5	19.4	8 29	23 6.83	- 0 53.1	1.920	2.914	4.3	21.3
9 8	22 58.62	-32 9.2	1.464	2.408	10.8	19.4	9 8	22 58.89	- 2 4.2	1.907	2.913	1.4	21.1
9 18	22 49.55	-32 45.8	1.483	2.387	13.4	19.5	9 18	22 51.05	- 3 18.3	1.923	2.911	4.4	21.3
9 28	22 41.89	-32 48.4	1.522	2.366	16.3	19.7	9 28	22 44.17	- 4 28.8	1.967	2.909	8.2	21.6
10 8	22 36.64	-32 18.6	1.579	2.346	19.1	19.8	10 8	22 38.93	- 5 30.0	2.037	2.907	11.6	21.8
340287	2006 <i>BY</i> ₂₇₇	9 6.2 52°02'	1°1'	5.3	16		516408	2002 <i>GB</i> ₁₉₂	9 6.2 102°50'	0°4'	6.8	18	
7 30	23 26.08	- 6 43.6	1.487	2.337	17.1	20.7	7 30	23 18.95	- 2 41.9	3.264	4.070	9.7	21.5
8 9	23 22.17	- 7 9.9	1.430	2.352	13.2	20.5	8 9	23 15.40	- 3 5.5	3.184	4.079	7.6	21.3
8 19	23 15.78	- 7 48.7	1.394	2.368	8.7	20.3	8 19	23 10.68	- 3 37.0	3.128	4.089	5.1	21.2
8 29	23 7.61	- 8 34.7	1.381	2.384	3.9	20.0	8 29	23 5.16	- 4 14.5	3.099	4.098	2.5	21.0
9 8	22 58.71	- 9 20.9	1.394	2.400	1.7	19.9	9 8	22 59.26	- 4 55.0	3.100	4.107	0.5	20.8
9 18	22 50.23	-10 0.7	1.433	2.417	6.3	20.3	9 18	22 53.48	- 5 35.3	3.130	4.116	3.1	21.1
9 28	22 43.27	-10 28.5	1.497	2.433	10.7	20.6	9 28	22 48.28	- 6 12.4	3.189	4.124	5.7	21.2
10 8	22 38.59	-10 41.4	1.583	2.450	14.5	20.9	10 8	22 44.10	- 6 43.6	3.274	4.133	8.0	21.4
436540	2011 <i>GC</i> ₂₈	9 6.2 177°12'	2°4'	8.7	17		76474	2000 <i>FK</i> ₅₈	9 6.2 343°26'	3°9'	2.4	18	

EPHEMERIDES

9 6.2

9 6.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
65236	2002 <i>EW</i> ₉₇		9 6.2 74°13	2.4/	3.0	18	343174	2009 <i>SH</i> ₃₃₃		9 6.2 324°80	5.3/18.6	17	
7 30	23 21.19	-14 2.9	2.983	3.822	9.7	19.0	7 30	23 15.85	+24 51.1	4.575	5.185	9.6	19.9
8 9	23 17.21	-14 36.5	2.917	3.834	7.4	18.9	8 9	23 12.85	+25 5.8	4.472	5.184	8.6	19.8
8 19	23 11.92	-15 13.0	2.875	3.846	4.9	18.7	8 19	23 8.94	+25 7.4	4.388	5.183	7.5	19.7
8 29	23 5.73	-15 48.6	2.861	3.858	2.8	18.6	8 29	23 4.38	+24 55.1	4.325	5.183	6.5	19.6
9 8	22 59.15	-16 19.8	2.876	3.870	2.8	18.6	9 8	22 59.49	+24 29.1	4.287	5.182	5.6	19.6
9 18	22 52.74	-16 43.5	2.919	3.882	4.9	18.8	9 18	22 54.64	+23 50.5	4.274	5.181	5.3	19.6
9 28	22 47.06	-16 57.3	2.990	3.894	7.3	19.0	9 28	22 50.19	+23 1.5	4.288	5.180	5.6	19.6
10 8	22 42.56	-17 0.2	3.086	3.906	9.4	19.1	10 8	22 46.49	+22 5.1	4.329	5.180	6.3	19.6
11461	Wladimirneumann		9 6.2 158°62	0°5/	6.6	18	447112	2004 <i>TC</i> ₂₀₆		9 6.2 243°22	4°7/12.7	18	
7 30	23 30.21	- 3 38.3	1.657	2.483	16.7	18.2	7 30	23 20.82	+13 20.6	2.846	3.570	12.8	21.6
8 9	23 25.32	- 3 45.7	1.582	2.488	13.2	17.9	8 9	23 17.23	+13 20.4	2.736	3.557	11.0	21.4
8 19	23 17.94	- 4 6.9	1.527	2.492	9.0	17.7	8 19	23 12.16	+13 3.3	2.646	3.543	8.8	21.3
8 29	23 8.68	- 4 38.6	1.496	2.496	4.3	17.4	8 29	23 5.96	+12 28.7	2.580	3.529	6.6	21.1
9 8	22 58.51	- 5 15.7	1.492	2.499	0.8	17.2	9 8	22 59.15	+11 38.0	2.540	3.514	4.9	21.0
9 18	22 48.58	- 5 52.2	1.515	2.502	5.6	17.5	9 18	22 52.32	+10 34.2	2.529	3.500	5.0	21.0
9 28	22 40.05	- 6 22.4	1.565	2.504	10.1	17.8	9 28	22 46.13	+ 9 21.8	2.546	3.485	6.7	21.0
10 8	22 33.76	- 6 42.2	1.637	2.506	14.0	18.1	10 8	22 41.14	+ 8 6.5	2.590	3.469	9.1	21.2
86223	1999 <i>TE</i> ₉₆		9 6.2 352°75	0°8/	7.1	18	361972	2008 <i>KE</i> ₇		9 6.2 27°31	3°4/	2.2	18
7 30	23 19.03	- 0 5.9	1.937	2.762	14.7	19.0	7 30	23 20.39	-12 19.4	2.054	2.909	12.9	20.5
8 9	23 16.37	- 0 47.7	1.855	2.760	11.6	18.8	8 9	23 17.30	-13 34.8	1.985	2.912	9.8	20.4
8 19	23 11.81	- 1 46.5	1.794	2.758	8.0	18.5	8 19	23 12.37	-14 57.7	1.940	2.915	6.6	20.2
8 29	23 5.82	- 2 59.0	1.758	2.756	4.0	18.3	8 29	23 6.07	-16 21.7	1.921	2.919	3.8	20.0
9 8	22 59.13	- 4 19.2	1.748	2.755	0.9	18.1	9 8	22 59.13	-17 39.5	1.930	2.923	4.1	20.0
9 18	22 52.54	- 5 40.1	1.765	2.754	4.7	18.3	9 18	22 52.37	-18 44.7	1.966	2.927	7.0	20.2
9 28	22 46.93	- 6 54.7	1.810	2.753	8.7	18.6	9 28	22 46.59	-19 32.4	2.027	2.931	10.2	20.4
10 8	22 42.98	- 7 57.1	1.879	2.753	12.2	18.8	10 8	22 42.45	-20 0.7	2.112	2.935	13.1	20.6
499347	2009 <i>WC</i> ₂₄₇		9 6.2 247°56	15°4/	18.4	17	288334	2004 <i>BX</i> ₇₈		9 6.2 319°70	0°7/	6.8	18
7 30	23 28.19	+25 22.3	1.400	2.097	24.9	20.8	7 30	23 24.09	- 3 19.1	1.697	2.532	16.0	20.9
8 9	23 24.98	+27 13.5	1.318	2.089	22.9	20.6	8 9	23 20.68	- 3 21.8	1.610	2.522	12.7	20.7
8 19	23 18.54	+28 34.6	1.248	2.081	20.5	20.4	8 19	23 14.93	- 3 38.2	1.544	2.511	8.7	20.4
8 29	23 9.30	+29 15.9	1.193	2.073	18.2	20.2	8 29	23 7.37	- 4 5.7	1.502	2.501	4.2	20.2
9 8	22 58.33	+29 10.7	1.156	2.064	16.2	20.1	9 8	22 58.84	- 4 39.7	1.485	2.492	0.9	19.9
9 18	22 47.13	+28 17.4	1.139	2.056	15.4	20.0	9 18	22 50.39	- 5 14.6	1.494	2.482	5.4	20.2
9 28	22 37.44	+26 42.2	1.141	2.047	16.1	20.0	9 28	22 43.10	- 5 44.8	1.529	2.474	9.9	20.4
10 8	22 30.66	+24 38.7	1.164	2.037	18.1	20.1	10 8	22 37.85	- 6 5.3	1.587	2.465	13.9	20.7
184351	2005 <i>JY</i> ₇		9 6.2 322°58	2°9/	8.5	17	63798	2001 <i>RL</i> ₂₆		9 6.2 286°82	1°0/	5.3	18
7 30	23 19.88	+ 2 44.0	1.241	2.085	20.2	20.3	7 30	23 23.07	- 4 49.8	1.606	2.451	16.3	20.1
8 9	23 18.25	+ 2 38.2	1.158	2.070	16.5	20.0	8 9	23 20.17	- 5 34.7	1.511	2.430	12.8	19.8
8 19	23 13.78	+ 2 6.7	1.092	2.055	11.9	19.7	8 19	23 14.80	- 6 37.1	1.436	2.409	8.6	19.5
8 29	23 6.98	+ 1 10.4	1.047	2.042	6.8	19.4	8 29	23 7.40	- 7 52.4	1.385	2.388	3.9	19.2
9 8	22 58.86	- 0 5.2	1.024	2.028	3.0	19.1	9 8	22 58.82	- 9 13.2	1.360	2.366	1.7	19.0
9 18	22 50.73	- 1 31.0	1.024	2.016	6.4	19.3	9 18	22 50.18	-10 30.5	1.361	2.345	6.6	19.2
9 28	22 44.05	- 2 55.3	1.048	2.004	11.8	19.5	9 28	22 42.67	-11 35.8	1.387	2.323	11.5	19.4
10 8	22 39.95	- 4 7.5	1.092	1.994	16.8	19.8	10 8	22 37.31	-12 23.0	1.436	2.302	15.8	19.7
247167	2001 <i>AT</i> ₁₅		9 6.2 244°84	7°2/	28.7	18	275584	1999 <i>TO</i> ₃₁₇		9 6.2 33°28	4°4/	10.6	16
7 30	23 25.00	-17 39.9	1.724	2.588	14.5	20.4	7 30	23 18.57	+ 9 8.1	1.221	2.042	21.8	20.2
8 9	23 21.64	-20 10.3	1.646	2.573	11.4	20.1	8 9	23 16.80	+ 8 35.4	1.171	2.063	17.9	20.0
8 19	23 15.76	-22 51.3	1.591	2.558	8.5	19.9	8 19	23 12.42	+ 7 30.0	1.138	2.085	13.2	19.8
8 29	23 7.82	-25 30.6	1.564	2.542	7.2	19.8	8 29	23 6.16	+ 5 55.1	1.124	2.109	8.4	19.7
9 8	22 58.69	-27 54.4	1.564	2.525	8.7	19.9	9 8	22 59.13	+ 3 59.2	1.134	2.134	4.6	19.5
9 18	22 49.50	-29 51.4	1.591	2.508	11.8	20.0	9 18	22 52.56	+ 1 54.5	1.168	2.159	6.0	19.7
9 28	22 41.48	-31 14.6	1.642	2.490	15.1	20.2	9 28	22 47.57	- 0 5.7	1.227	2.185	10.2	20.0
10 8	22 35.64	-32 2.8	1.712	2.472	18.1	20.4	10 8	22 44.92	- 1 50.3	1.308	2.212	14.4	20.3
573	Recha		9 6.2 335°82	0°1/	6.3	18	409046	2003 <i>SW</i> ₃₉		9 6.2 0°10	3°3/	4.0	18
7 30	23 25.75	- 5 41.4	1.904	2.737	14.6	13.8	7 30	23 30.65	-15 57.3	1.830	2.678	14.5	19.3
8 9	23 21.63	- 5 35.1	1.820	2.730	11.5	13.6	8 9	23 25.44	-15 51.4	1.756	2.676	11.3	19.1
8 19	23 15.38	- 5 38.3	1.756	2.724	7.8	13.4	8 19	23 17.89	-15 46.6	1.704	2.675	7.6	18.8
8 29	23 7.49	- 5 48.6	1.718	2.718	3.6	13.1	8 29	23 8.63	-15 38.4	1.677	2.675	4.2	18.6
9 8	22 58.80	- 6 2.2	1.706	2.713	0.7	12.9	9 8	22 58.62	-15 22.4	1.677	2.675	3.7	18.6
9 18	22 50.23	- 6 14.9	1.722	2.708	5.1	13.2	9 18	22 48.92	-14 55.9	1.705	2.676	6.9	18.8
9 28	22 42.76	- 6 22.8	1.764	2.704	9.1	13.4	9 28	22 40.60	-14 17.5	1.758	2.678	10.5	19.0
10 8	22 37.17	- 6 22.8	1.830	2.700	12.7	13.6	10 8	22 34.40	-13 27.5	1.836	2.680	13.8	19.3
485764	2012 <i>CM</i> ₁₄		9 6.2 357°44	1°1/	7.3	18	67472	2000 <i>RD</i> ₆		9 6.3 307°67	2°5/	4.6	18
7 30	23 24.51	- 2 26.7	2.058	2.877	14.2	20.8	7 30	23 27.24	- 9 58.8	1.286	2.151	18.4	18.7
8 9	23 20.46	- 2 20.0	1.975	2.876	11.2	20.6	8 9	23 23.94	-10 20.4	1.208	2.139	14.4	18.4
8 19	23 14.48	- 2 24.5	1.914	2.875	7.7	20.4	8 19	23 17.57	-10 53.6	1.149	2.127	9.6	18.1
8 29	23 7.04	- 2 38.4	1.877	2.874	3.9	20.1	8 29	23 8.73	-11 32.6	1.112	2.115	4.6	17.8
9 8	22 58.90	- 2 58.4	1.868	2.874	1.2	19.9	9 8	22 58.56	-12 9.2	1.099	2.103	3.2	17.6
9 18	22 50.89	- 3 20.5	1.886	2.874	4.5	20.2	9 18	22 48.52	-12 35.6	1.111	2.092	8.1	17.9
9 28	22 43.90	- 3 40.6	1.931	2.874	8.3	20.4	9 28	22 40.11	-12 45.7	1.145	2.081	13.3	18.2
10 8	22 38.60	- 3 54.7	2.002	2.875	11.6	20.6	10 8	22 34.46	-12 36.8	1.200	2.071	17.9	18.4
193434	2000 <i>WZ</i> ₁₁₅		9 6.2 296°64	1°2/	5.3	18	440916	2006 <i>VD</i> ₁₂₉		9 6.3 348°53	9°6/	15.3	

EPHEMERIDES

9 6.3

9 6.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
169543	2002 <i>EY</i> ₈₇	9 6.3 236°15	1°5/ 5.0 18				91991	1999 <i>VH</i> ₁₁₆	9 6.3 270°23	1°7/ 8.2 18			
7 30	23 27.88	- 6 47.7	1.669	2.509	16.0	21.3	7 30	23 21.17	+ 1 41.0	2.312	3.114	13.3	20.1
8 9	23 23.74	- 7 26.9	1.582	2.498	12.5	21.0	8 9	23 17.73	+ 1 23.1	2.222	3.110	10.7	19.9
8 19	23 17.08	- 8 19.9	1.514	2.486	8.4	20.8	8 19	23 12.61	+ 0 50.8	2.153	3.106	7.6	19.7
8 29	23 8.40	- 9 21.9	1.472	2.474	3.8	20.5	8 29	23 6.21	+ 0 6.2	2.110	3.102	4.2	19.5
9 8	22 58.64	-10 25.4	1.455	2.461	2.1	20.3	9 8	22 59.17	- 0 47.2	2.093	3.098	1.7	19.3
9 18	22 48.91	-11 23.0	1.466	2.447	6.6	20.6	9 18	22 52.21	- 1 44.7	2.106	3.094	4.1	19.4
9 28	22 40.42	-12 7.7	1.503	2.433	11.2	20.8	9 28	22 46.07	- 2 40.8	2.146	3.090	7.5	19.6
10 8	22 34.13	-12 35.4	1.562	2.418	15.2	21.0	10 8	22 41.38	- 3 30.7	2.211	3.086	10.6	19.8
239096	2006 <i>HF</i> ₄₄	9 6.3 215°72	2°3/ 8.6 18				298136	2002 <i>RD</i> ₂₇₃	9 6.3 312°97	0°7/ 6.9 18			
7 30	23 23.63	+ 3 7.4	2.037	2.836	15.0	21.4	7 30	23 22.68	- 1 56.6	1.763	2.594	15.7	21.3
8 9	23 19.89	+ 2 51.2	1.947	2.832	12.1	21.2	8 9	23 19.49	- 2 15.1	1.678	2.586	12.4	21.0
8 19	23 14.18	+ 2 17.9	1.878	2.827	8.7	21.0	8 19	23 14.09	- 2 49.1	1.613	2.578	8.5	20.8
8 29	23 6.96	+ 1 29.0	1.832	2.823	5.0	20.8	8 29	23 6.99	- 3 35.8	1.572	2.571	4.2	20.5
9 8	22 58.96	+ 0 28.5	1.814	2.818	2.3	20.6	9 8	22 59.00	- 4 29.9	1.556	2.563	0.9	20.2
9 18	22 51.03	- 0 37.9	1.824	2.812	4.6	20.7	9 18	22 51.10	- 5 25.2	1.568	2.556	5.2	20.5
9 28	22 44.07	- 1 43.8	1.861	2.807	8.3	21.0	9 28	22 44.30	- 6 14.9	1.606	2.550	9.5	20.8
10 8	22 38.81	- 2 43.0	1.924	2.801	11.8	21.2	10 8	22 39.42	- 6 53.8	1.667	2.543	13.4	21.0
351194	2004 <i>DH</i> ₂₃	9 6.3 222°21	1°3/ 8.0 18				104024	2000 <i>DA</i> ₁₁₂	9 6.3 45°64	0°6/ 5.7 18			
7 30	23 21.68	+ 4 16.9	2.454	3.239	13.1	21.1	7 30	23 21.38	- 3 19.4	1.635	2.478	16.2	18.9
8 9	23 18.07	+ 3 6.9	2.352	3.231	10.5	20.9	8 9	23 18.41	- 4 13.6	1.574	2.491	12.5	18.7
8 19	23 12.81	+ 1 37.9	2.272	3.222	7.4	20.7	8 19	23 13.27	- 5 24.0	1.533	2.505	8.3	18.5
8 29	23 6.30	+ 0 7.3	2.220	3.212	4.0	20.4	8 29	23 6.54	- 6 45.1	1.516	2.518	3.7	18.3
9 8	22 59.11	- 2 3.0	2.196	3.202	1.3	20.2	9 8	22 59.12	- 8 9.0	1.526	2.533	1.2	18.1
9 18	22 51.94	- 4 2.3	2.204	3.192	4.0	20.4	9 18	22 51.99	- 9 27.5	1.562	2.547	5.7	18.5
9 28	22 45.53	- 5 57.4	2.242	3.181	7.5	20.6	9 28	22 46.12	-10 33.3	1.624	2.562	9.9	18.7
10 8	22 40.50	- 7 41.6	2.307	3.170	10.7	20.8	10 8	22 42.21	-11 21.9	1.709	2.577	13.6	19.0
184255	2004 <i>TQ</i> ₆₅	9 6.3 33°67	1°3/ 4.9 18				419658	2010 <i>TG</i> ₈₈	9 6.3 311°61	0°3/ 6.0 18			
7 30	23 21.78	- 7 7.4	1.872	2.717	14.3	19.8	7 30	23 24.20	- 3 43.1	1.338	2.190	18.5	21.2
8 9	23 18.47	- 7 45.4	1.806	2.726	11.0	19.6	8 9	23 21.34	- 4 13.9	1.263	2.185	14.6	20.9
8 19	23 13.17	- 8 34.0	1.762	2.735	7.3	19.4	8 19	23 15.69	- 5 3.7	1.206	2.179	9.9	20.6
8 29	23 6.45	- 9 28.5	1.743	2.745	3.2	19.2	8 29	23 7.83	- 6 7.7	1.171	2.173	4.5	20.3
9 8	22 59.09	-10 22.8	1.750	2.755	1.8	19.1	9 8	22 58.83	- 7 18.0	1.161	2.168	1.2	20.1
9 18	22 51.98	-11 10.9	1.785	2.766	5.6	19.4	9 18	22 49.97	- 8 25.4	1.176	2.163	6.7	20.4
9 28	22 45.98	-11 47.8	1.846	2.777	9.4	19.7	9 28	22 42.60	- 9 21.0	1.214	2.158	11.9	20.7
10 8	22 41.75	-12 10.5	1.930	2.788	12.7	19.9	10 8	22 37.75	- 9 58.8	1.274	2.154	16.5	21.0
445749	2011 <i>WT</i> ₄₂	9 6.3 235°43	4°7/11.3 18				97395	2000 <i>AT</i> ₁₀₂	9 6.3 230°91	5°5/30.8 18			
7 30	23 22.69	+ 9 31.5	2.244	3.005	14.9	20.9	7 30	23 25.75	-20 1.3	2.242	3.093	12.1	19.9
8 9	23 18.99	+ 9 46.0	2.154	3.004	12.5	20.7	8 9	23 21.50	-21 20.3	2.163	3.082	9.5	19.7
8 19	23 13.49	+ 9 42.8	2.083	3.002	9.7	20.5	8 19	23 15.25	-22 41.8	2.107	3.070	7.0	19.6
8 29	23 6.62	+ 9 21.5	2.035	3.001	6.9	20.3	8 29	23 7.48	-23 58.6	2.078	3.058	5.6	19.5
9 8	22 59.05	+ 8 43.8	2.014	3.000	4.8	20.2	9 8	22 58.92	-25 3.4	2.076	3.045	6.3	19.5
9 18	22 51.54	+ 7 53.3	2.020	2.998	5.3	20.2	9 18	22 50.44	-25 50.6	2.102	3.032	8.7	19.6
9 28	22 44.91	+ 6 55.5	2.053	2.997	7.8	20.4	9 28	22 42.93	-26 16.6	2.153	3.018	11.4	19.8
10 8	22 39.83	+ 5 56.5	2.111	2.995	10.6	20.6	10 8	22 37.13	-26 21.0	2.226	3.004	13.9	19.9
476139	2007 <i>TJ</i> ₆₂	9 6.3 343°08	3°9/ 3.0 18				137824	2000 <i>AT</i> ₁₆	9 6.3 281°79	3°4/ 3.4 18			
7 30	23 25.76	-14 15.9	1.687	2.546	15.0	20.8	7 30	23 25.74	-10 50.6	1.549	2.407	16.2	20.0
8 9	23 21.92	-14 54.1	1.615	2.543	11.6	20.6	8 9	23 22.43	-11 44.3	1.458	2.385	12.6	19.8
8 19	23 15.70	-15 38.1	1.565	2.540	7.9	20.4	8 19	23 16.43	-12 50.6	1.387	2.363	8.5	19.5
8 29	23 7.69	-16 21.4	1.539	2.537	4.5	20.2	8 29	23 8.22	-14 2.9	1.340	2.341	4.4	19.2
9 8	22 58.83	-16 56.9	1.539	2.534	4.5	20.1	9 8	22 58.74	-15 12.2	1.319	2.318	4.2	19.1
9 18	22 50.20	-17 18.9	1.565	2.532	7.8	20.3	9 18	22 49.20	-16 9.5	1.324	2.296	8.4	19.3
9 28	22 42.88	-17 23.5	1.616	2.530	11.6	20.6	9 28	22 40.92	-16 47.7	1.352	2.273	12.9	19.5
10 8	22 37.71	-17 9.9	1.688	2.529	15.0	20.8	10 8	22 34.97	-17 3.3	1.402	2.250	17.1	19.7
42135	2001 <i>BK</i> ₂₆	9 6.3 340°15	6°5/29.0 18				479788	2014 <i>EN</i> ₄₈	9 6.3 278°94	3°8/ 2.1 18			
7 30	23 19.85	-19 46.2	1.962	2.830	12.8	18.5	7 30	23 21.38	-10 30.0	1.770	2.627	14.5	20.7
8 9	23 17.16	-21 41.8	1.897	2.826	10.1	18.3	8 9	23 18.56	-12 5.0	1.688	2.616	11.1	20.4
8 19	23 12.44	-23 41.1	1.856	2.822	7.6	18.1	8 19	23 13.53	-13 53.3	1.628	2.604	7.4	20.2
8 29	23 6.18	-25 34.8	1.841	2.818	6.5	18.1	8 29	23 6.76	-15 47.3	1.594	2.593	4.2	20.0
9 8	22 59.15	-27 13.4	1.853	2.815	7.6	18.1	9 8	22 59.07	-17 36.7	1.587	2.581	4.7	20.0
9 18	22 52.24	-28 29.7	1.891	2.811	10.0	18.3	9 18	22 51.42	-19 12.2	1.607	2.569	8.2	20.2
9 28	22 46.38	-29 19.5	1.953	2.808	12.8	18.4	9 28	22 44.85	-20 26.2	1.653	2.558	12.0	20.4
10 8	22 42.29	-29 42.3	2.035	2.806	15.3	18.6	10 8	22 40.21	-21 15.2	1.720	2.546	15.4	20.6
190996	2001 <i>YY</i> ₁₀	9 6.3 295°56	0°9/ 6.9 18				253647	2003 <i>UD</i> ₁₂₉	9 6.3 228°12	2°8/ 8.7 18			
7 30	23 24.14	- 1 58.2	1.601	2.435	16.8	20.7	7 30	23 24.52	+ 3 44.8	1.572	2.386	18.0	21.1
8 9	23 21.06	- 2 8.5	1.502	2.412	13.5	20.4	8 9	23 21.19	+ 3 28.9	1.489	2.382	14.7	20.9
8 19	23 15.45	- 2 35.7	1.422	2.388	9.4	20.1	8 19	23 15.39	+ 2 50.8	1.425	2.379	10.6	20.6
8 29	23 7.74	- 3 17.5	1.366	2.365	4.7	19.8	8 29	23 7.65	+ 1 51.8	1.384	2.375	6.1	20.4
9 8	22 58.80	- 4 9.1	1.335	2.342	1.1	19.4	9 8	22 58.89	+ 0 37.2	1.367	2.371	2.8	20.1
9 18	22 49.73	- 5 3.6	1.329	2.318	5.8	19.7	9 18	22 50.22	- 0 45.2	1.377	2.366	5.5	20.3
9 28	22 41.79	- 5 53.5	1.349	2.295	10.8	19.9	9 28	22 42.83	- 2 6.3	1.412	2.362	10.0	20.6
10 8	22 36.03	- 6 32.3	1.391	2.272	15.3	20.1	10 8	22 37.63	- 3 17.6	1.471	2.357	14.2	20.8
341230	2007 <i>RO</i> ₁₅₃	9 6.3 274°49	1°5/ 7.6 18				304510	2006 <i>UT</i> ₁₉₉	9 6.3				

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
477527	2010 <i>EO</i> ₈₄		9 6.3 230°25	3°5/ 3.4	18		382496	2001 <i>QX</i> ₁₁₀		9 6.3 341°42	4°9/10.5	16	
7 30	23 30.04	-14 47.5	1.940	2.784	13.9	21.6	7 30	23 20.00	+ 7 41.1	1.382	2.196	20.0	20.8
8 9	23 24.98	-15 14.3	1.860	2.778	10.8	21.3	8 9	23 18.02	+ 7 44.0	1.302	2.190	16.7	20.6
8 19	23 17.64	-15 45.2	1.802	2.772	7.4	21.1	8 19	23 13.46	+ 7 19.7	1.239	2.184	12.7	20.3
8 29	23 8.59	-16 14.7	1.769	2.766	4.2	20.9	8 29	23 6.84	+ 6 27.7	1.196	2.179	8.3	20.1
9 8	22 58.71	-16 36.9	1.764	2.760	4.0	20.9	9 8	22 59.12	+ 5 12.1	1.177	2.174	5.1	19.9
9 18	22 49.01	-16 47.2	1.787	2.753	7.1	21.1	9 18	22 51.48	+ 3 40.6	1.181	2.170	6.4	19.9
9 28	22 40.54	-16 42.6	1.835	2.746	10.7	21.3	9 28	22 45.20	+ 2 4.3	1.210	2.167	10.5	20.2
10 8	22 34.07	-16 22.4	1.908	2.739	13.9	21.5	10 8	22 41.24	+ 0 34.3	1.261	2.164	14.9	20.4
243745	2000 <i>QM</i> ₈₆		9 6.3 16°07	5°3/ 9.6	18		68837	2002 <i>GO</i> ₁₀₉		9 6.3 301°79	0°6/ 5.7	18	
7 30	23 22.62	+ 3 43.3	0.979	1.834	23.6	19.5	7 30	23 19.81	- 1 33.4	1.674	2.512	16.1	19.0
8 9	23 20.75	+ 4 29.5	0.924	1.839	19.3	19.2	8 9	23 17.42	- 2 48.9	1.589	2.503	12.6	18.7
8 19	23 15.57	+ 4 49.4	0.884	1.845	14.4	19.0	8 19	23 12.81	- 4 25.8	1.524	2.494	8.5	18.5
8 29	23 7.83	+ 4 41.8	0.862	1.852	9.1	18.7	8 29	23 6.47	- 6 18.9	1.483	2.485	3.8	18.2
9 8	22 58.87	+ 4 10.4	0.861	1.861	5.4	18.6	9 8	22 59.20	- 8 19.1	1.470	2.476	1.3	18.0
9 18	22 50.30	+ 3 22.8	0.881	1.872	7.5	18.7	9 18	22 51.99	-10 16.0	1.484	2.468	6.1	18.3
9 28	22 43.72	+ 2 29.9	0.922	1.883	12.3	19.0	9 28	22 45.87	-11 59.6	1.524	2.459	10.6	18.5
10 8	22 40.18	+ 1 42.0	0.983	1.896	17.1	19.4	10 8	22 41.69	-13 22.6	1.587	2.451	14.6	18.8
242269	2003 <i>TN</i> ₅₁		9 6.3 37°93	7°5/14.4	18		321509	2009 <i>SG</i> ₁₇₂		9 6.3 353°42	4°1/10.7	18	
7 30	23 23.81	+16 21.1	2.190	2.908	16.3	19.8	7 30	23 21.06	+ 7 40.0	2.148	2.926	15.0	20.2
8 9	23 19.95	+17 12.3	2.109	2.916	14.2	19.7	8 9	23 17.82	+ 7 48.7	2.060	2.924	12.4	20.0
8 19	23 14.18	+17 43.4	2.047	2.924	11.9	19.5	8 19	23 12.77	+ 7 39.7	1.992	2.923	9.5	19.9
8 29	23 6.97	+17 51.9	2.005	2.932	9.5	19.4	8 29	23 6.35	+ 7 13.1	1.948	2.922	6.4	19.7
9 8	22 59.05	+17 37.9	1.988	2.940	7.8	19.3	9 8	22 59.24	+ 6 31.4	1.929	2.921	4.2	19.5
9 18	22 51.22	+17 3.5	1.996	2.949	7.6	19.3	9 18	22 52.20	+ 5 38.5	1.937	2.920	5.0	19.6
9 28	22 44.35	+16 13.8	2.031	2.957	8.9	19.4	9 28	22 46.06	+ 4 40.2	1.972	2.920	7.8	19.8
10 8	22 39.14	+15 15.4	2.089	2.967	11.0	19.5	10 8	22 41.48	+ 3 42.6	2.033	2.920	10.8	19.9
127290	2002 <i>JM</i> ₇₇		9 6.3 194°68	3°5/ 2.5	18		161734	2006 <i>SP</i> ₈₃		9 6.3 133°74	1°7/ 4.8	17	
7 30	23 26.01	-16 21.0	2.408	3.251	11.6	20.0	7 30	23 28.78	- 7 41.5	1.761	2.598	15.4	21.5
8 9	23 21.37	-16 56.3	2.333	3.250	9.0	19.8	8 9	23 24.03	- 8 25.5	1.695	2.610	11.9	21.2
8 19	23 14.97	-17 34.0	2.281	3.249	6.2	19.6	8 19	23 17.00	- 9 20.6	1.650	2.621	7.8	21.0
8 29	23 7.28	-18 9.2	2.255	3.248	3.9	19.5	8 29	23 8.29	-10 21.3	1.630	2.632	3.6	20.8
9 8	22 59.00	-18 37.1	2.257	3.247	4.0	19.5	9 8	22 58.85	-11 20.5	1.638	2.642	2.3	20.7
9 18	22 50.90	-18 53.9	2.288	3.245	6.4	19.6	9 18	22 49.71	-12 11.7	1.673	2.652	6.2	21.0
9 28	22 43.75	-18 57.1	2.346	3.244	9.2	19.8	9 28	22 41.89	-12 49.5	1.735	2.661	10.2	21.3
10 8	22 38.16	-18 45.9	2.427	3.242	11.8	20.0	10 8	22 36.16	-13 11.2	1.820	2.669	13.7	21.5
416631	2004 <i>RM</i> ₃₁₂		9 6.3 347°27	7°3/ 2.7	18		103297	2000 <i>AC</i> ₄₇		9 6.3 227°63	7°5/13.2	18	
7 30	23 21.96	-18 10.8	0.837	1.747	21.4	19.4	7 30	23 29.97	+15 42.0	2.349	3.053	15.7	20.5
8 9	23 21.09	-18 36.2	0.779	1.733	17.0	19.1	8 9	23 24.80	+16 46.2	2.246	3.044	13.7	20.4
8 19	23 16.30	-19 4.6	0.736	1.720	12.1	18.7	8 19	23 17.55	+17 33.5	2.162	3.035	11.5	20.2
8 29	23 8.33	-19 24.9	0.712	1.710	8.0	18.5	8 29	23 8.64	+18 0.6	2.101	3.025	9.3	20.0
9 8	22 58.76	-19 25.3	0.707	1.702	8.1	18.5	9 8	22 58.75	+18 6.2	2.066	3.015	7.8	19.9
9 18	22 49.56	-18 58.0	0.720	1.696	12.5	18.7	9 18	22 48.77	+17 51.0	2.057	3.004	7.8	19.9
9 28	22 42.70	-18 0.9	0.752	1.692	17.7	18.9	9 28	22 39.64	+17 18.8	2.075	2.993	9.3	20.0
10 8	22 39.45	-16 37.3	0.800	1.691	22.5	19.2	10 8	22 32.17	+16 35.5	2.118	2.981	11.5	20.1
13568	1992 <i>WL</i> ₃		9 6.3 284°73	3°0/10.0	18		60286	1999 <i>XG</i> ₁₀₇		9 6.3 277°76	2°5/ 3.5	18	
7 30	23 19.84	+ 6 34.6	2.428	3.205	13.4	17.3	7 30	23 23.30	-11 53.7	2.245	3.089	12.3	19.3
8 9	23 16.65	+ 6 18.3	2.335	3.202	11.0	17.2	8 9	23 19.45	-12 33.5	2.164	3.084	9.5	19.1
8 19	23 11.87	+ 5 45.3	2.262	3.198	8.2	17.0	8 19	23 13.80	-13 19.7	2.107	3.080	6.3	18.9
8 29	23 5.88	+ 4 56.7	2.215	3.195	5.2	16.8	8 29	23 6.80	-14 7.4	2.076	3.075	3.3	18.7
9 8	22 59.30	+ 3 55.6	2.194	3.191	3.1	16.6	9 8	22 59.16	-14 51.3	2.072	3.070	3.0	18.7
9 18	22 52.77	+ 2 46.6	2.201	3.188	4.2	16.7	9 18	22 51.64	-15 26.6	2.096	3.066	6.0	18.9
9 28	22 47.01	+ 1 35.3	2.237	3.184	7.0	16.9	9 28	22 45.04	-15 49.5	2.147	3.061	9.2	19.1
10 8	22 42.62	+ 0 27.4	2.299	3.181	10.0	17.1	10 8	22 40.01	-15 58.0	2.222	3.057	12.1	19.3
207697	2007 <i>RF</i> ₅₈		9 6.3 310°34	3°0/ 9.4	18		385199	1999 <i>OE</i> ₄		9 6.3 0°53	0°0/ 5.8	15	
7 30	23 18.71	+ 6 16.6	1.705	2.512	17.1	19.8	7 30	23 3.03	- 7 21.6	42.443	43.258	0.8	23.3
8 9	23 16.58	+ 5 40.3	1.610	2.497	14.1	19.5	8 9	23 2.45	- 7 25.5	42.355	43.258	0.6	23.2
8 19	23 12.27	+ 4 38.7	1.533	2.482	10.4	19.3	8 19	23 1.79	- 7 29.7	42.292	43.258	0.4	23.2
8 29	23 6.22	+ 3 12.9	1.479	2.467	6.2	19.0	8 29	23 1.09	- 7 34.2	42.257	43.258	0.2	23.2
9 8	22 59.22	+ 1 28.4	1.451	2.453	3.0	18.8	9 8	23 0.37	- 7 38.8	42.252	43.258	0.1	23.1
9 18	22 52.20	- 0 26.5	1.449	2.439	5.2	18.9	9 18	22 59.65	- 7 43.3	42.275	43.258	0.3	23.2
9 28	22 46.22	- 2 21.2	1.474	2.426	9.5	19.1	9 28	22 58.97	- 7 47.5	42.328	43.258	0.5	23.2
10 8	22 42.14	- 4 5.7	1.523	2.413	13.6	19.3	10 8	22 58.33	- 7 51.3	42.409	43.258	0.7	23.2
393135	2013 <i>BU</i> ₄₈		9 6.3 269°90	0°4/ 5.4	17		513391	2008 <i>HP</i> ₂₉		9 6.3 88°48	5°8/30.4	18	
7 30	23 16.24	- 7 3.0	4.360	5.177	7.3	21.8	7 30	23 24.06	-21 43.6	2.228	3.083	12.0	21.1
8 9	23 13.11	- 7 24.5	4.267	5.171	5.6	21.7	8 9	23 20.01	-23 1.4	2.175	3.095	9.4	21.0
8 19	23 9.12	- 7 50.5	4.200	5.166	3.7	21.5	8 19	23 14.12	-24 18.5	2.146	3.107	7.1	20.8
8 29	23 4.51	- 8 19.2	4.160	5.161	1.7	21.4	8 29	23 6.91	-25 27.8	2.143	3.118	5.8	20.8
9 8	22 59.61	- 8 48.4	4.150	5.156	0.7	21.3	9 8	22 59.15	-26 22.9	2.168	3.130	6.5	20.9
9 18	22 54.75	- 9 16.2	4.170	5.151	2.7	21.4	9 18	22 51.65	-26 59.3	2.218	3.142	8.6	21.0
9 28	22 50.29	- 9 40.2	4.219	5.145	4.7	21.6	9 28	22 45.21	-27 14.9	2.294	3.153	11.0	21.2
10 8	22 46.55	- 9 59.0	4.295	5.140	6.5	21.7	10 8	22 40.45	-27 10.1	2.391	3.164	13.2	21.4
191912	2005 <i>JL</i> ₁₃₃		9 6.3 346°88	0°0/ 6.1	17		380159	2000 <i>HR</i> ₄₉					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
302187	2001 <i>TT</i> ₂₃₄		9 6.3 345°11	1°0/ 5.4 16			518214	2016 <i>QP</i> ₈₉		9 6.3 11°83	3°6/ 3.5 18		
7 30	23 23.15	- 6 50.9	1.727	2.574	15.3	21.1	7 30	23 21.81	-11 0.5	1.266	2.144	17.8	20.8
8 9	23 19.86	- 7 12.8	1.649	2.569	11.9	20.9	8 9	23 19.48	-11 50.0	1.209	2.146	13.7	20.6
8 19	23 14.35	- 7 46.1	1.592	2.564	7.9	20.6	8 19	23 14.39	-12 50.9	1.170	2.150	9.1	20.3
8 29	23 7.14	- 8 26.7	1.558	2.561	3.6	20.3	8 29	23 7.23	-13 55.1	1.154	2.155	4.7	20.1
9 8	22 59.10	- 9 8.8	1.551	2.557	1.5	20.2	9 8	22 59.14	-14 52.9	1.161	2.161	4.3	20.1
9 18	22 51.20	- 9 46.4	1.570	2.554	5.8	20.5	9 18	22 51.40	-15 36.0	1.192	2.168	8.5	20.3
9 28	22 44.48	-10 14.1	1.615	2.552	10.1	20.7	9 28	22 45.28	-15 58.5	1.246	2.176	13.0	20.6
10 8	22 39.73	-10 28.5	1.683	2.550	13.8	21.0	10 8	22 41.64	-15 58.7	1.320	2.185	16.9	20.9
256514	2007 <i>EW</i> ₁₅₆		9 6.3 163°22	1°8/ 3.9 18			112317	2002 <i>LO</i> ₅₉		9 6.3 56°14	4°8/ 2.9 18		
7 30	23 22.58	-10 6.7	2.656	3.489	10.9	21.0	7 30	23 28.16	-13 47.7	1.265	2.137	18.2	19.6
8 9	23 18.55	-10 49.4	2.578	3.492	8.4	20.9	8 9	23 24.32	-14 45.0	1.216	2.150	14.0	19.4
8 19	23 13.02	-11 38.3	2.524	3.495	5.5	20.7	8 19	23 17.55	-15 49.8	1.185	2.163	9.4	19.2
8 29	23 6.40	-12 29.5	2.497	3.498	2.7	20.5	8 29	23 8.64	-16 53.0	1.178	2.176	5.5	19.0
9 8	22 59.26	-13 18.5	2.499	3.500	2.2	20.5	9 8	22 58.87	-17 44.6	1.195	2.190	5.6	19.0
9 18	22 52.26	-14 1.1	2.530	3.502	4.9	20.7	9 18	22 49.64	-18 16.9	1.236	2.204	9.4	19.3
9 28	22 46.03	-14 33.8	2.589	3.504	7.8	20.8	9 28	22 42.26	-18 26.1	1.299	2.218	13.6	19.6
10 8	22 41.12	-14 54.4	2.673	3.506	10.4	21.0	10 8	22 37.57	-18 12.3	1.383	2.232	17.3	19.9
223213	2003 <i>BT</i> ₆₂		9 6.3 189°75	4°5/ 2.2 18			511732	2015 <i>DF</i> ₃₆		9 6.3 272°47	1°6/ 5.3 18		
7 30	23 27.37	-15 6.1	1.763	2.618	14.6	20.5	7 30	23 31.81	- 9 22.2	1.535	2.379	17.0	21.6
8 9	23 23.12	-16 7.7	1.693	2.617	11.3	20.3	8 9	23 27.18	- 9 26.6	1.444	2.362	13.4	21.3
8 19	23 16.51	-17 15.3	1.645	2.617	7.8	20.1	8 19	23 19.67	- 9 40.2	1.372	2.344	9.0	21.0
8 29	23 8.13	-18 21.3	1.622	2.616	4.9	20.0	8 29	23 9.79	- 9 58.7	1.325	2.326	4.2	20.7
9 8	22 58.90	-19 17.8	1.625	2.615	5.2	20.0	9 8	22 58.59	-10 16.2	1.303	2.308	2.2	20.5
9 18	22 49.89	-19 58.2	1.655	2.613	8.4	20.2	9 18	22 47.37	-10 27.1	1.307	2.290	7.0	20.8
9 28	22 42.18	-20 18.3	1.710	2.611	11.9	20.4	9 28	22 37.56	-10 26.4	1.337	2.271	12.0	21.0
10 8	22 36.58	-20 17.4	1.787	2.609	15.1	20.6	10 8	22 30.26	-10 11.8	1.389	2.252	16.4	21.3
149956	2005 <i>TE</i> ₅₄		9 6.3 344°78	1°2/ 5.1 18			259547	2003 <i>UW</i> ₁₀₉		9 6.3 254°32	1°2/ 7.2 18		
7 30	23 22.57	- 7 21.1	1.883	2.727	14.3	20.3	7 30	23 26.51	- 0 54.7	1.642	2.467	16.9	21.7
8 9	23 19.22	- 7 50.9	1.805	2.724	11.1	20.0	8 9	23 22.79	- 1 9.8	1.550	2.454	13.5	21.5
8 19	23 13.82	- 8 31.3	1.748	2.720	7.4	19.8	8 19	23 16.56	- 1 42.6	1.478	2.440	9.4	21.2
8 29	23 6.87	- 9 18.0	1.715	2.717	3.3	19.6	8 29	23 8.30	- 2 30.5	1.428	2.426	4.8	20.9
9 8	22 59.17	-10 5.3	1.709	2.715	1.8	19.5	9 8	22 58.91	- 3 28.5	1.405	2.412	1.2	20.6
9 18	22 51.61	-10 47.4	1.731	2.712	5.7	19.7	9 18	22 49.50	- 4 29.6	1.408	2.397	5.6	20.9
9 28	22 45.12	-11 19.2	1.778	2.711	9.6	19.9	9 28	22 41.28	- 5 26.1	1.438	2.382	10.4	21.1
10 8	22 40.44	-11 37.4	1.849	2.709	13.0	20.2	10 8	22 35.23	- 6 11.6	1.490	2.366	14.7	21.4
393789	2005 <i>KN</i> ₄		9 6.3 24°91	2°7/ 3.6 18			437403	2013 <i>WU</i> ₇₄		9 6.3 290°00	5°2/ 1.9 18		
7 30	23 23.06	-10 21.3	1.787	2.640	14.5	20.6	7 30	23 25.36	-15 0.3	1.516	2.383	16.0	20.5
8 9	23 19.68	-11 13.9	1.717	2.643	11.2	20.4	8 9	23 22.12	-16 7.6	1.437	2.369	12.4	20.2
8 19	23 14.15	-12 15.9	1.670	2.645	7.4	20.2	8 19	23 16.20	-17 23.6	1.379	2.355	8.6	19.9
8 29	23 7.02	-13 21.2	1.647	2.648	3.7	19.9	8 29	23 8.15	-18 39.6	1.345	2.340	5.6	19.7
9 8	22 59.15	-14 22.7	1.651	2.651	3.4	19.9	9 8	22 58.95	-19 45.7	1.336	2.326	6.1	19.7
9 18	22 51.49	-15 13.5	1.681	2.654	6.8	20.2	9 18	22 49.84	-20 33.3	1.353	2.312	9.6	19.9
9 28	22 45.01	-15 48.7	1.737	2.657	10.6	20.4	9 28	22 42.11	-20 56.9	1.392	2.299	13.7	20.1
10 8	22 40.43	-16 5.8	1.815	2.661	13.9	20.6	10 8	22 36.76	-20 55.0	1.452	2.285	17.4	20.3
156934	2003 <i>FU</i> ₉₇		9 6.3 48°78	9°2/15.0 18			145690	2280 <i>T</i> ₋₃		9 6.3 0°16	1°5/ 7.4 18		
7 30	23 25.09	+16 46.7	1.437	2.191	22.1	19.4	7 30	23 23.65	- 1 8.4	1.256	2.106	19.7	19.9
8 9	23 21.70	+17 35.5	1.381	2.213	19.1	19.2	8 9	23 21.04	- 1 10.1	1.186	2.104	15.7	19.6
8 19	23 15.69	+17 53.5	1.340	2.235	15.7	19.0	8 19	23 15.57	- 1 31.7	1.135	2.103	10.9	19.4
8 29	23 7.77	+17 37.7	1.318	2.258	12.3	18.9	8 29	23 7.86	- 2 10.7	1.104	2.103	5.6	19.1
9 8	22 59.01	+16 49.5	1.318	2.281	9.8	18.8	9 8	22 59.04	- 3 0.9	1.097	2.103	1.6	18.8
9 18	22 50.63	+15 34.7	1.341	2.305	9.3	18.9	9 18	22 50.44	- 3 54.2	1.113	2.104	6.2	19.1
9 28	22 43.81	+14 3.2	1.387	2.328	11.0	19.0	9 28	22 43.42	- 4 42.0	1.154	2.106	11.5	19.4
10 8	22 39.37	+12 26.6	1.457	2.352	13.8	19.3	10 8	22 38.99	- 5 17.4	1.215	2.108	16.0	19.7
172125	2002 <i>HE</i> ₄		9 6.3 144°52	2°8/ 3.8 18			316484	2010 <i>VM</i> ₆₁		9 6.3 331°84	1°4/ 8.8 16		
7 30	23 28.13	- 9 25.7	1.675	2.521	15.7	20.4	7 30	23 16.54	+ 2 1.9	4.130	4.910	8.3	20.2
8 9	23 23.71	-10 28.5	1.609	2.530	12.1	20.2	8 9	23 13.42	+ 1 55.2	4.034	4.908	6.6	20.1
8 19	23 16.89	-11 42.5	1.565	2.538	8.0	20.0	8 19	23 9.39	+ 1 40.7	3.962	4.906	4.8	20.0
8 29	23 8.30	-13 0.7	1.545	2.546	3.9	19.7	8 29	23 4.70	+ 1 19.5	3.917	4.904	2.8	19.8
9 8	22 58.90	-14 14.7	1.553	2.553	3.4	19.7	9 8	22 59.71	+ 0 53.2	3.900	4.902	1.4	19.7
9 18	22 49.78	-15 16.6	1.587	2.560	7.2	20.0	9 18	22 54.75	+ 0 24.0	3.913	4.900	2.5	19.8
9 28	22 42.03	-16 0.9	1.648	2.566	11.2	20.2	9 28	22 50.22	- 0 5.8	3.955	4.898	4.4	19.9
10 8	22 36.44	-16 25.1	1.731	2.571	14.7	20.5	10 8	22 46.44	- 0 33.8	4.025	4.896	6.3	20.1
43419	2000 <i>XK</i> ₁₁		9 6.3 203°26	11°4/23.6 18			361066	2005 <i>YO</i> ₂₁₅		9 6.3 196°87	7°1/27.9 18		
7 30	23 31.32	-38 1.2	2.000	2.834	14.0	18.8	7 30	23 25.91	-28 54.4	2.535	3.379	11.1	21.2
8 9	23 26.39	-39 47.3	1.956	2.832	12.5	18.7	8 9	23 21.42	-30 10.8	2.475	3.377	9.2	21.0
8 19	23 18.78	-41 20.8	1.933	2.829	11.6	18.6	8 19	23 15.10	-31 22.4	2.439	3.375	7.7	20.9
8 29	23 9.19	-42 31.7	1.934	2.827	11.6	18.6	8 29	23 7.43	-32 22.5	2.428	3.373	7.1	20.9
9 8	22 58.72	-43 12.3	1.957	2.824	12.6	18.7	9 8	22 59.15	-33 5.3	2.444	3.371	7.9	20.9
9 18	22 48.60	-43 19.2	2.002	2.820	14.1	18.8	9 18	22 51.05	-33 27.2	2.486	3.368	9.6	21.0
9 28	22 40.07	-42 53.0	2.067	2.817	15.8	18.9	9 28	22 43.95	-33 26.9	2.552	3.365	11.5	21.2
10 8	22 33.97	-41 58.0	2.148	2.813	17.4	19.0	10 8	22 38.49	-33 5.5	2.638	3.362	13.3	21.3
428191	2006 <i>UC</i> ₁₀₃		9 6.3 220°38	2°4/ 8.2 18			127846	2003 <i>FO</i> ₁₁₁					

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
454990	2015 <i>TZ</i> ₂₃₂		9 6.3 256°39	11°9/17.5	15		342658	2008 <i>VC</i> ₄		9 6.3 242°33	0°7/ 5.7	18	
7 30	23 21.57	+23 13.6	1.206	1.947	26.2	21.5	7 30	23 26.17	- 5 59.1	2.001	2.831	14.1	21.2
8 9	23 20.00	+23 37.8	1.122	1.939	23.5	21.3	8 9	23 22.01	- 6 24.7	1.910	2.820	11.1	20.9
8 19	23 15.28	+23 18.5	1.050	1.930	20.2	21.0	8 19	23 15.74	- 7 1.6	1.840	2.809	7.4	20.7
8 29	23 7.92	+22 7.3	0.993	1.921	16.5	20.8	8 29	23 7.84	- 7 46.1	1.796	2.797	3.4	20.4
9 8	22 59.01	+20 1.5	0.954	1.912	13.3	20.6	9 8	22 59.08	- 8 33.0	1.779	2.786	1.2	20.3
9 18	22 50.04	+17 6.8	0.937	1.903	11.9	20.5	9 18	22 50.36	- 9 16.7	1.791	2.774	5.4	20.5
9 28	22 42.70	+13 39.8	0.943	1.894	13.6	20.5	9 28	22 42.66	- 9 52.1	1.829	2.761	9.4	20.7
10 8	22 38.27	+10 3.7	0.971	1.884	17.3	20.7	10 8	22 36.74	-10 15.3	1.891	2.748	12.9	20.9
362987	2013 <i>CE</i> ₈₇		9 6.3 75°62	0°8/ 5.3	18		21073	Darksy		9 6.3 346°59	2°2/ 7.8	18	
7 30	23 21.35	- 3 49.2	2.211	3.037	13.1	20.5	7 30	23 20.01	- 1 12.3	1.201	2.061	19.8	17.9
8 9	23 17.82	- 4 59.5	2.149	3.058	10.1	20.3	8 9	23 18.42	- 0 53.3	1.125	2.048	15.9	17.6
8 19	23 12.63	- 6 22.0	2.110	3.078	6.6	20.2	8 19	23 13.97	- 0 53.1	1.067	2.037	11.3	17.3
8 29	23 6.26	- 7 51.8	2.098	3.099	2.9	20.0	8 29	23 7.21	- 1 10.4	1.029	2.027	6.1	17.0
9 8	22 59.41	- 9 22.2	2.114	3.120	1.3	19.9	9 8	22 59.20	- 1 40.7	1.013	2.019	2.2	16.7
9 18	22 52.78	-10 46.7	2.159	3.140	4.8	20.2	9 18	22 51.28	- 2 17.3	1.020	2.012	6.4	16.9
9 28	22 47.09	-11 59.7	2.233	3.160	8.2	20.4	9 28	22 44.89	- 2 52.0	1.049	2.007	11.7	17.2
10 8	22 42.90	-12 57.5	2.332	3.181	11.1	20.6	10 8	22 41.09	- 3 17.5	1.099	2.003	16.5	17.5
24781	1993 <i>RU</i> ₃		9 6.3 74°18	6°8/13.3	18		362417	2010 <i>PK</i> ₅₈		9 6.3 348°12	3°8/ 3.9	18	
7 30	23 24.39	+14 0.4	1.883	2.629	17.8	17.7	7 30	23 27.24	-15 34.3	1.507	2.372	16.2	18.8
8 9	23 20.66	+14 28.9	1.808	2.640	15.2	17.5	8 9	23 23.47	-15 36.5	1.431	2.361	12.6	18.6
8 19	23 14.80	+14 34.2	1.751	2.652	12.3	17.4	8 19	23 17.00	-15 41.2	1.376	2.352	8.6	18.3
8 29	23 7.37	+14 14.7	1.715	2.663	9.3	17.2	8 29	23 8.48	-15 43.0	1.344	2.343	4.8	18.1
9 8	22 59.17	+13 31.8	1.703	2.675	7.2	17.1	9 8	22 58.96	-15 36.1	1.337	2.336	4.3	18.1
9 18	22 51.15	+12 29.9	1.717	2.687	7.1	17.1	9 18	22 49.68	-15 16.2	1.356	2.330	7.9	18.3
9 28	22 44.28	+11 15.8	1.757	2.698	9.1	17.3	9 28	22 41.90	-14 41.0	1.398	2.325	12.1	18.5
10 8	22 39.28	+ 9 58.1	1.822	2.710	11.8	17.5	10 8	22 36.52	-13 50.9	1.462	2.322	15.9	18.7
237531	2000 <i>SY</i> ₂₉₁		9 6.3 321°15	2°0/ 5.2	18		31050	1996 <i>RA</i> ₂		9 6.3 280°02	1°3/ 5.0	18 R	
7 30	23 30.67	-11 22.7	1.423	2.279	17.4	20.0	7 30	23 23.12	- 7 4.9	2.006	2.845	13.8	18.4
8 9	23 26.45	-11 10.0	1.338	2.263	13.7	19.7	8 9	23 19.56	- 7 43.5	1.924	2.840	10.7	18.2
8 19	23 19.23	-11 3.3	1.272	2.247	9.3	19.4	8 19	23 14.03	- 8 32.9	1.865	2.836	7.1	17.9
8 29	23 9.61	-10 58.3	1.230	2.232	4.4	19.1	8 29	23 7.02	- 9 28.8	1.830	2.832	3.2	17.7
9 8	22 58.69	-10 49.8	1.212	2.217	2.5	18.9	9 8	22 59.26	-10 25.2	1.823	2.828	1.8	17.6
9 18	22 47.86	-10 33.2	1.220	2.203	7.3	19.2	9 18	22 51.62	-11 16.4	1.844	2.824	5.5	17.8
9 28	22 38.57	-10 5.3	1.252	2.190	12.3	19.4	9 28	22 44.99	-11 57.1	1.891	2.820	9.3	18.1
10 8	22 31.93	- 9 25.1	1.306	2.177	16.7	19.7	10 8	22 40.06	-12 23.8	1.962	2.816	12.7	18.3
515223	2012 <i>BC</i> ₆₅		9 6.3 198°00	2°3/ 3.3	18		74924	1999 <i>TF</i> ₁₅₁		9 6.3 202°18	4°6/ 2.7	18	
7 30	23 21.71	-10 20.6	2.481	3.320	11.4	21.8	7 30	23 29.50	-14 56.1	1.616	2.472	15.7	19.2
8 9	23 18.08	-11 22.1	2.401	3.318	8.8	21.6	8 9	23 25.03	-15 48.0	1.545	2.471	12.2	18.9
8 19	23 12.83	-12 31.3	2.344	3.316	5.8	21.4	8 19	23 17.95	-16 46.2	1.496	2.469	8.3	18.7
8 29	23 6.40	-13 43.2	2.314	3.314	3.0	21.2	8 29	23 8.90	-17 42.8	1.471	2.466	5.1	18.5
9 8	22 59.38	-14 52.3	2.313	3.312	2.8	21.2	9 8	22 58.89	-18 29.7	1.472	2.464	5.2	18.5
9 18	22 52.45	-15 53.3	2.341	3.309	5.6	21.4	9 18	22 49.13	-19 0.2	1.499	2.461	8.6	18.7
9 28	22 46.32	-16 41.8	2.397	3.306	8.6	21.6	9 28	22 40.82	-19 10.2	1.550	2.458	12.5	18.9
10 8	22 41.57	-17 15.3	2.476	3.303	11.3	21.8	10 8	22 34.85	-18 59.2	1.623	2.455	16.0	19.2
44161	1998 <i>HT</i> ₁₃₉		9 6.3 58°65	4°8/ 2.6	18		324084	2005 <i>WY</i> ₁₀₀		9 6.3 309°30	2°3/ 8.5	17	
7 30	23 26.84	-12 22.7	1.239	2.112	18.4	19.0	7 30	23 21.29	+ 2 2.0	1.956	2.767	15.1	21.0
8 9	23 23.25	-13 41.9	1.197	2.132	14.1	18.8	8 9	23 18.35	+ 1 57.3	1.854	2.747	12.2	20.8
8 19	23 16.78	-15 10.5	1.175	2.153	9.4	18.6	8 19	23 13.39	+ 1 36.2	1.773	2.727	8.8	20.5
8 29	23 8.28	-16 37.9	1.176	2.174	5.4	18.5	8 29	23 6.80	+ 0 59.8	1.716	2.708	5.1	20.3
9 8	22 59.01	-17 52.8	1.201	2.195	5.6	18.6	9 8	22 59.30	+ 0 11.3	1.684	2.688	2.3	20.0
9 18	22 50.35	-18 46.6	1.250	2.217	9.4	18.8	9 18	22 51.75	- 0 44.0	1.680	2.669	4.8	20.2
9 28	22 43.53	-19 14.8	1.322	2.238	13.6	19.1	9 28	22 45.11	- 1 39.8	1.702	2.651	8.7	20.4
10 8	22 39.34	-19 17.4	1.414	2.260	17.1	19.4	10 8	22 40.16	- 2 30.0	1.748	2.632	12.5	20.6
368855	2006 <i>HG</i> ₁₀₂		9 6.3 70°58	4°0/ 9.7	17		435156	2007 <i>LJ</i> ₄		9 6.3 61°11	9°6/28.5	18	
7 30	23 28.03	+ 6 55.7	1.311	2.119	21.2	21.1	7 30	23 27.64	-26 48.1	1.536	2.405	15.7	20.1
8 9	23 23.94	+ 6 36.9	1.263	2.149	17.2	20.9	8 9	23 23.66	-28 33.7	1.499	2.419	12.8	20.0
8 19	23 17.13	+ 5 50.5	1.231	2.178	12.5	20.7	8 19	23 16.98	-30 13.0	1.483	2.434	10.5	19.9
8 29	23 8.41	+ 4 39.1	1.221	2.207	7.6	20.5	8 29	23 8.38	-31 34.7	1.490	2.448	9.6	19.8
9 8	22 58.99	+ 3 10.2	1.236	2.236	4.1	20.4	9 8	22 59.03	-32 29.3	1.522	2.463	10.6	19.9
9 18	22 50.14	+ 1 33.7	1.276	2.265	6.0	20.6	9 18	22 50.20	-32 52.1	1.576	2.478	12.9	20.1
9 28	22 43.04	+ 0 0.5	1.341	2.293	10.2	20.9	9 28	22 43.07	-32 42.7	1.652	2.493	15.4	20.3
10 8	22 38.45	- 1 20.2	1.429	2.321	14.2	21.2	10 8	22 38.42	-32 5.0	1.746	2.508	17.7	20.5
203276	2001 <i>RM</i> ₄₈		9 6.3 355°28	5°5/10.2	18		219098	1998 <i>SK</i> ₅		9 6.3 212°45	1°3/ 8.2	18	
7 30	23 19.07	+ 6 12.1	1.022	1.869	23.3	19.2	7 30	23 20.52	+ 2 45.7	2.911	3.696	11.3	20.9
8 9	23 18.07	+ 6 33.9	0.955	1.864	19.4	18.9	8 9	23 16.94	+ 2 2.3	2.811	3.689	9.0	20.7
8 19	23 13.92	+ 6 25.0	0.904	1.861	14.6	18.6	8 19	23 11.98	+ 1 5.3	2.734	3.683	6.4	20.5
8 29	23 7.23	+ 5 44.1	0.870	1.858	9.5	18.4	8 29	23 6.00	- 0 3.1	2.684	3.675	3.5	20.3
9 8	22 59.19	+ 4 35.5	0.857	1.857	5.7	18.2	9 8	22 59.50	- 1 19.2	2.662	3.667	1.3	20.1
9 18	22 51.32	+ 3 8.7	0.865	1.857	7.4	18.3	9 18	22 53.02	- 2 38.4	2.671	3.659	3.4	20.3
9 28	22 45.22	+ 1 37.3	0.895	1.858	12.3	18.5	9 28	22 47.18	- 3 55.6	2.710	3.651	6.3	20.5
10 8	22 42.02	+ 0 14.4	0.944	1.860	17.3	18.8	10 8	22 42.47	- 5 6.3	2.776	3.642	9.0	20.6
254926	2005 <i>SS</i> ₁₂₃		9 6.3 355°77	2°9/ 9.1	18		349923	2009 <i>UF</i> ₈		9 6.3 278°55</			

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
257390	2009 <i>SM</i> ₁₈₉		9 6.3 324°34	0°8/ 7.6 17			347496	1998 <i>QG</i> ₅₈		9 6.3 319°83	1°1/ 5.5 18		
7 30	23 17.24	- 1 25.3	3.933	4.730	8.4	20.8	7 30	23 28.93	- 8 58.3	1.713	2.555	15.6	20.6
8 9	23 14.02	- 1 33.2	3.837	4.724	6.6	20.7	8 9	23 24.46	- 8 56.8	1.631	2.548	12.2	20.3
8 19	23 9.83	- 1 48.0	3.764	4.719	4.6	20.5	8 19	23 17.54	- 9 3.2	1.570	2.541	8.2	20.1
8 29	23 4.95	- 2 8.3	3.718	4.713	2.4	20.4	8 29	23 8.74	- 9 13.9	1.533	2.535	3.7	19.8
9 8	22 59.73	- 2 32.2	3.702	4.708	0.8	20.2	9 8	22 58.99	- 9 24.3	1.523	2.529	1.7	19.6
9 18	22 54.55	- 2 57.5	3.715	4.702	2.6	20.4	9 18	22 49.41	- 9 29.8	1.540	2.523	6.0	19.9
9 28	22 49.81	- 3 21.9	3.758	4.697	4.7	20.5	9 28	22 41.11	- 9 26.7	1.582	2.517	10.3	20.2
10 8	22 45.87	- 3 43.1	3.827	4.692	6.8	20.7	10 8	22 34.98	- 9 12.5	1.648	2.512	14.2	20.4
276386	2002 <i>WD</i> ₂₂		9 6.3 330°11	3°9/10.9 18			517043	2013 <i>AH</i> ₂₈		9 6.3 314°63	4°2/ 1.9 18		
7 30	23 19.54	+ 8 19.3	2.337	3.109	14.1	20.7	7 30	23 18.60	- 10 8.2	1.524	2.394	15.7	20.2
8 9	23 16.57	+ 8 19.1	2.243	3.102	11.7	20.5	8 9	23 16.96	- 11 42.8	1.430	2.366	12.2	19.9
8 19	23 11.94	+ 8 1.6	2.168	3.095	9.0	20.3	8 19	23 12.87	- 13 35.4	1.358	2.337	8.2	19.6
8 29	23 6.05	+ 7 27.1	2.117	3.089	6.1	20.2	8 29	23 6.73	- 15 38.1	1.310	2.310	4.7	19.3
9 8	22 59.51	+ 6 37.8	2.092	3.083	4.0	20.0	9 8	22 59.37	- 17 39.0	1.287	2.282	5.3	19.3
9 18	22 53.00	+ 5 37.8	2.094	3.077	4.7	20.0	9 18	22 51.89	- 19 26.2	1.290	2.256	9.4	19.4
9 28	22 47.28	+ 4 32.6	2.124	3.072	7.3	20.2	9 28	22 45.52	- 20 49.5	1.317	2.229	13.9	19.6
10 8	22 42.96	+ 3 28.2	2.180	3.067	10.2	20.4	10 8	22 41.33	- 21 43.6	1.364	2.204	17.9	19.8
479613	2014 <i>DC</i> ₂₄		9 6.3 317°08	0°7/ 6.8 18			438945	2010 <i>JW</i> ₇₆		9 6.3 68°50	8°0/29.2 18		
7 30	23 30.60	- 5 13.6	1.720	2.548	16.1	20.3	7 30	23 26.65	- 25 17.1	1.807	2.669	14.0	20.5
8 9	23 25.73	- 4 51.5	1.636	2.543	12.8	20.0	8 9	23 22.61	- 26 44.9	1.755	2.673	11.4	20.4
8 19	23 18.38	- 4 39.0	1.573	2.538	8.7	19.8	8 19	23 16.20	- 28 9.4	1.724	2.678	9.1	20.2
8 29	23 9.12	- 4 34.3	1.534	2.534	4.2	19.5	8 29	23 8.06	- 29 21.4	1.719	2.683	8.0	20.2
9 8	22 58.88	- 4 34.0	1.522	2.529	0.9	19.3	9 8	22 59.16	- 30 12.5	1.738	2.687	9.0	20.3
9 18	22 48.79	- 4 34.5	1.538	2.525	5.4	19.6	9 18	22 50.58	- 30 37.7	1.782	2.692	11.2	20.4
9 28	22 40.00	- 4 31.8	1.579	2.521	9.8	19.8	9 28	22 43.40	- 30 35.5	1.849	2.697	13.7	20.6
10 8	22 33.40	- 4 22.7	1.645	2.517	13.7	20.1	10 8	22 38.36	- 30 7.9	1.935	2.702	16.1	20.8
193504	2000 <i>YH</i> ₃₆		9 6.3 317°49	2°8/ 8.4 18			165192	Neugent		9 6.3 256°12	0°4/ 6.0 18		
7 30	23 21.44	+ 1 27.0	1.441	2.276	18.4	19.4	7 30	23 29.55	- 5 51.7	1.459	2.302	17.7	20.1
8 9	23 19.29	+ 1 35.4	1.344	2.251	15.0	19.1	8 9	23 25.43	- 6 0.8	1.378	2.294	14.0	19.8
8 19	23 14.50	+ 1 23.9	1.265	2.226	10.9	18.8	8 19	23 18.48	- 6 23.5	1.316	2.286	9.5	19.5
8 29	23 7.51	+ 0 52.8	1.208	2.202	6.3	18.5	8 29	23 9.28	- 6 55.9	1.277	2.278	4.4	19.2
9 8	22 59.18	+ 0 5.8	1.174	2.179	2.8	18.2	9 8	22 58.89	- 7 31.9	1.263	2.270	1.2	19.0
9 18	22 50.69	- 0 50.8	1.165	2.156	6.0	18.4	9 18	22 48.60	- 8 5.0	1.275	2.261	6.5	19.3
9 28	22 43.39	- 1 48.5	1.180	2.134	11.0	18.6	9 28	22 39.79	- 8 28.6	1.312	2.253	11.5	19.6
10 8	22 38.40	- 2 38.9	1.216	2.113	15.8	18.8	10 8	22 33.48	- 8 38.7	1.371	2.244	15.9	19.8
257584	1999 <i>JZ</i> ₃₅		9 6.3 45°23	5°2/ 2.9 18			362586	2010 <i>VZ</i> ₁₇₃		9 6.3 359°96	6°6/30.9 18		
7 30	23 27.85	- 13 5.0	1.019	1.904	20.6	19.4	7 30	23 24.81	- 22 30.1	1.866	2.729	13.6	20.1
8 9	23 24.41	- 14 13.2	0.987	1.928	15.7	19.2	8 9	23 21.09	- 23 31.9	1.805	2.728	10.8	19.9
8 19	23 17.70	- 15 29.9	0.973	1.953	10.5	19.0	8 19	23 15.14	- 24 32.6	1.765	2.728	8.2	19.8
8 29	23 8.72	- 16 43.4	0.979	1.979	6.0	18.8	8 29	23 7.57	- 25 24.4	1.750	2.727	6.7	19.7
9 8	22 59.01	- 17 42.1	1.009	2.005	6.1	18.9	9 8	22 59.26	- 26 0.2	1.761	2.728	7.4	19.7
9 18	22 50.15	- 18 17.7	1.061	2.032	10.1	19.2	9 18	22 51.23	- 26 15.1	1.796	2.728	9.7	19.9
9 28	22 43.49	- 18 26.8	1.135	2.059	14.5	19.6	9 28	22 44.45	- 26 7.1	1.856	2.729	12.5	20.1
10 8	22 39.80	- 18 10.6	1.228	2.087	18.3	19.9	10 8	22 39.67	- 25 37.3	1.936	2.731	15.1	20.3
519779	2013 <i>EX</i> ₁₅₇		9 6.3 169°92	3°6/ 2.3 18			348616	2005 <i>YK</i> ₁₅		9 6.3 72°74	4°7/31.5 18		
7 30	23 26.83	- 16 56.2	2.483	3.324	11.4	22.1	7 30	23 22.08	- 17 42.9	2.258	3.113	11.8	20.3
8 9	23 21.98	- 17 34.1	2.410	3.326	8.8	21.9	8 9	23 18.51	- 19 0.6	2.198	3.122	9.1	20.1
8 19	23 15.41	- 18 13.9	2.361	3.328	6.1	21.8	8 19	23 13.19	- 20 21.0	2.163	3.131	6.5	19.9
8 29	23 7.59	- 18 50.7	2.338	3.330	3.9	21.6	8 29	23 6.61	- 21 37.2	2.153	3.140	4.8	19.9
9 8	22 59.21	- 19 19.9	2.344	3.331	4.1	21.6	9 8	22 59.46	- 22 42.8	2.172	3.149	5.4	19.9
9 18	22 51.02	- 19 37.6	2.378	3.333	6.4	21.8	9 18	22 52.51	- 23 32.7	2.217	3.157	7.7	20.1
9 28	22 43.77	- 19 41.4	2.440	3.333	9.1	22.0	9 28	22 46.52	- 24 3.8	2.288	3.166	10.3	20.3
10 8	22 38.05	- 19 31.0	2.525	3.334	11.6	22.1	10 8	22 42.10	- 24 15.3	2.382	3.175	12.7	20.4
180393	2004 <i>AC</i> ₁₀		9 6.3 163°53	0°8/ 5.6 17			479115	2013 <i>BO</i> ₂		9 6.3 325°60	0°3/ 6.0 17		
7 30	23 28.33	- 5 49.9	1.800	2.631	15.4	21.6	7 30	23 16.24	- 2 56.2	1.243	2.111	18.7	20.4
8 9	23 23.77	- 6 22.1	1.725	2.636	12.0	21.4	8 9	23 15.68	- 3 30.8	1.142	2.073	15.0	20.0
8 19	23 16.93	- 7 6.8	1.671	2.640	8.0	21.2	8 19	23 12.38	- 4 29.7	1.059	2.036	10.3	19.6
8 29	23 8.40	- 7 59.3	1.642	2.643	3.6	20.9	8 29	23 6.66	- 5 50.1	0.997	2.000	4.8	19.2
9 8	22 59.05	- 8 53.4	1.640	2.646	1.4	20.8	9 8	22 59.39	- 7 24.3	0.958	1.965	1.3	18.9
9 18	22 49.90	- 9 42.9	1.666	2.648	5.7	21.1	9 18	22 51.80	- 9 0.9	0.941	1.931	7.5	19.1
9 28	22 42.00	- 10 22.0	1.718	2.650	9.9	21.3	9 28	22 45.42	- 10 27.1	0.947	1.898	13.5	19.4
10 8	22 36.11	- 10 47.1	1.794	2.651	13.5	21.6	10 8	22 41.59	- 11 32.5	0.972	1.867	19.0	19.6
230288	2001 <i>XL</i> ₂₄₃		9 6.3 308°79	5°8/ 1.1 18			6355	Univermoscow		9 6.3 67°00	7°9/29.8 18	R	
7 30	23 22.56	- 15 17.5	1.456	2.331	16.1	20.3	7 30	23 32.67	- 31 11.4	2.262	3.097	12.5	16.6
8 9	23 20.12	- 16 38.6	1.376	2.312	12.6	20.1	8 9	23 26.70	- 31 55.7	2.210	3.105	10.4	16.4
8 19	23 14.99	- 18 9.7	1.317	2.293	8.8	19.8	8 19	23 18.60	- 32 31.7	2.180	3.112	8.7	16.4
8 29	23 7.68	- 19 41.6	1.281	2.275	6.0	19.6	8 29	23 9.06	- 32 52.6	2.175	3.119	7.9	16.3
9 8	22 59.17	- 21 2.9	1.270	2.257	6.8	19.6	9 8	22 58.99	- 32 53.3	2.197	3.127	8.5	16.4
9 18	22 50.68	- 22 3.9	1.283	2.240	10.4	19.8	9 18	22 49.37	- 32 31.6	2.244	3.134	10.1	16.5
9 28	22 43.56	- 22 37.9	1.319	2.223	14.5	20.0	9 28	22 41.12	- 31 47.8	2.316	3.142	12.1	16.6
10 8	22 38.82	- 22 43.2	1.374	2.206	18.3	20.2	10 8	22 34.88	- 30 44.8	2.409	3.150	14.0	16.8
444384	2005 <i>YT</i> ₁₂₅		9 6.3 340°61	4°1/ 2.2 18			<						

EPHEMERIDES

9 6.3

9 6.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
101466	1998 <i>WJ</i> ₁₅		9 6.3 300°87	2°9/31.7	17		309046	2006 <i>UY</i> ₂₅₃		9 6.3 319°45	0°6/ 6.9	18	
7 30	23 17.03	-19 37.9	4.211	5.053	7.0	19.4	7 30	23 22.83	- 2 17.6	1.928	2.754	14.7	21.6
8 9	23 13.85	-20 18.2	4.132	5.048	5.5	19.2	8 9	23 19.45	- 2 37.2	1.843	2.749	11.6	21.4
8 19	23 9.72	-20 58.7	4.079	5.042	3.9	19.1	8 19	23 14.05	- 3 10.9	1.780	2.744	8.0	21.2
8 29	23 4.93	-21 36.6	4.053	5.036	2.9	19.1	8 29	23 7.12	- 3 55.6	1.741	2.740	3.9	21.0
9 8	22 59.81	-22 9.0	4.057	5.031	3.3	19.1	9 8	22 59.40	- 4 46.5	1.728	2.736	0.8	20.7
9 18	22 54.76	-22 33.7	4.089	5.025	4.6	19.2	9 18	22 51.78	- 5 38.0	1.744	2.731	4.8	21.0
9 28	22 50.15	-22 49.0	4.149	5.020	6.2	19.3	9 28	22 45.17	- 6 24.2	1.785	2.728	8.9	21.2
10 8	22 46.34	-22 54.2	4.233	5.014	7.7	19.4	10 8	22 40.32	- 7 0.3	1.851	2.724	12.4	21.5
257206	2008 <i>UA</i>		9 6.3 280°98	5°1/17.9	16		10364	<i>Tainai</i>		9 6.3 323°97	1°2/ 7.1	18	
7 30	23 16.41	+23 41.2	4.620	5.239	9.4	20.5	7 30	23 24.86	- 2 12.6	1.215	2.069	20.0	17.8
8 9	23 13.36	+23 59.0	4.513	5.234	8.4	20.4	8 9	23 22.26	- 2 12.6	1.139	2.059	15.9	17.5
8 19	23 9.41	+24 4.1	4.426	5.230	7.3	20.4	8 19	23 16.63	- 2 32.1	1.080	2.050	11.1	17.2
8 29	23 4.79	+23 55.9	4.360	5.225	6.3	20.3	8 29	23 8.54	- 3 8.4	1.042	2.042	5.6	16.9
9 8	22 59.84	+23 34.5	4.319	5.221	5.4	20.2	9 8	22 59.11	- 3 55.5	1.027	2.034	1.3	16.6
9 18	22 54.90	+23 1.0	4.304	5.216	5.1	20.2	9 18	22 49.78	- 4 45.1	1.036	2.027	6.6	16.9
9 28	22 50.36	+22 17.3	4.316	5.212	5.4	20.2	9 28	22 42.05	- 5 28.6	1.068	2.020	12.2	17.2
10 8	22 46.54	+21 26.5	4.355	5.207	6.3	20.3	10 8	22 37.07	- 5 58.7	1.120	2.014	17.1	17.5
437241	2012 <i>XH</i> ₂₄		9 6.3 3°19	6°4/ 1.3	18		55246	2001 <i>RM</i> ₉₃		9 6.3 354°39	1°6/ 4.9	18	
7 30	23 24.40	-18 18.0	1.378	2.256	16.6	20.0	7 30	23 21.76	- 7 43.4	1.541	2.400	16.2	18.5
8 9	23 21.45	-19 19.6	1.320	2.255	13.0	19.7	8 9	23 19.10	- 8 13.1	1.468	2.395	12.6	18.3
8 19	23 15.73	-20 24.4	1.281	2.255	9.3	19.5	8 19	23 14.05	- 8 55.2	1.416	2.392	8.4	18.0
8 29	23 7.94	-21 23.1	1.265	2.256	6.7	19.4	8 29	23 7.18	- 9 44.4	1.386	2.389	3.8	17.8
9 8	22 59.21	-22 6.1	1.273	2.258	7.3	19.4	9 8	22 59.41	-10 33.9	1.382	2.387	2.2	17.6
9 18	22 50.82	-22 26.6	1.305	2.260	10.5	19.6	9 18	22 51.82	-11 16.6	1.403	2.386	6.5	17.9
9 28	22 44.05	-22 21.3	1.359	2.263	14.2	19.8	9 28	22 45.52	-11 46.6	1.449	2.386	11.0	18.2
10 8	22 39.77	-21 51.3	1.433	2.267	17.5	20.1	10 8	22 41.34	-12 0.2	1.516	2.387	14.8	18.4
293482	2007 <i>FK</i> ₁₈		9 6.3 174°73	4°7/31.1	18		475923	2007 <i>ET</i> ₄₃		9 6.3 173°36	0°2/ 6.6	17	
7 30	23 25.24	-22 2.9	2.883	3.724	9.9	21.1	7 30	23 27.14	- 2 58.0	2.013	2.830	14.5	22.9
8 9	23 20.59	-22 57.2	2.815	3.727	7.8	21.0	8 9	23 22.65	- 3 23.0	1.931	2.833	11.4	22.7
8 19	23 14.41	-23 50.6	2.771	3.728	5.9	20.8	8 19	23 16.12	- 4 1.1	1.872	2.835	7.7	22.5
8 29	23 7.14	-24 38.2	2.755	3.730	4.7	20.8	8 29	23 8.05	- 4 49.0	1.837	2.836	3.7	22.2
9 8	22 59.38	-25 15.3	2.766	3.731	5.2	20.8	9 8	22 59.24	- 5 41.7	1.830	2.838	0.7	22.0
9 18	22 51.77	-25 38.6	2.806	3.731	7.0	20.9	9 18	22 50.57	- 6 33.6	1.852	2.838	4.8	22.3
9 28	22 44.97	-25 46.2	2.873	3.732	9.0	21.1	9 28	22 42.97	- 7 19.0	1.901	2.838	8.8	22.6
10 8	22 39.52	-25 38.1	2.962	3.731	11.0	21.2	10 8	22 37.15	- 7 53.8	1.975	2.838	12.2	22.8
447264	2005 <i>UL</i> ₃₄₆		9 6.3 67°31	4°4/11.3	18		259585	2003 <i>UG</i> ₂₂₀		9 6.3 169°22	4°1/ 9.9	18	
7 30	23 22.77	+ 9 19.3	2.140	2.907	15.3	20.8	7 30	23 26.15	+ 6 20.3	1.613	2.410	18.4	20.5
8 9	23 18.24	+ 9 23.1	2.062	2.917	12.8	20.6	8 9	23 22.45	+ 6 22.6	1.533	2.411	15.1	20.3
8 19	23 13.40	+ 9 8.0	2.004	2.927	9.8	20.5	8 19	23 16.30	+ 6 2.4	1.471	2.413	11.3	20.0
8 29	23 6.74	+ 8 34.1	1.968	2.937	6.8	20.3	8 29	23 8.23	+ 5 20.0	1.431	2.414	7.2	19.8
9 8	22 59.45	+ 7 44.1	1.959	2.948	4.6	20.2	9 8	22 59.19	+ 4 19.2	1.416	2.415	4.2	19.6
9 18	22 52.32	+ 6 42.5	1.977	2.958	5.1	20.3	9 18	22 50.29	+ 3 6.6	1.428	2.415	5.8	19.7
9 28	22 46.14	+ 5 35.5	2.022	2.968	7.7	20.4	9 28	22 42.66	+ 1 50.6	1.465	2.415	9.7	20.0
10 8	22 41.54	+ 4 29.5	2.092	2.979	10.6	20.6	10 8	22 37.21	+ 0 39.9	1.526	2.416	13.6	20.2
169680	2002 <i>JF</i> ₁₁₀		9 6.3 142°50	0°0/ 6.2	17		374957	2007 <i>CN</i> ₄₆		9 6.3 252°38	1°3/ 5.1	18	
7 30	23 29.99	- 3 45.4	1.729	2.554	16.2	21.3	7 30	23 26.17	- 6 9.1	1.855	2.689	14.9	21.4
8 9	23 25.10	- 4 8.0	1.658	2.564	12.7	21.1	8 9	23 22.32	- 6 53.6	1.759	2.672	11.6	21.2
8 19	23 17.85	- 4 44.5	1.608	2.573	8.6	20.9	8 19	23 16.18	- 7 52.1	1.684	2.654	7.8	20.9
8 29	23 8.84	- 5 31.1	1.582	2.582	4.0	20.6	8 29	23 8.21	- 9 0.0	1.634	2.636	3.6	20.6
9 8	22 59.03	- 6 21.7	1.583	2.590	0.8	20.4	9 8	22 59.20	-10 10.7	1.612	2.617	1.9	20.5
9 18	22 49.50	- 7 10.2	1.612	2.598	5.5	20.8	9 18	22 50.15	-11 16.6	1.617	2.597	6.1	20.7
9 28	22 41.30	- 7 50.5	1.667	2.604	9.8	21.0	9 28	22 42.13	-12 11.1	1.648	2.577	10.5	20.9
10 8	22 35.23	- 8 18.5	1.747	2.611	13.5	21.3	10 8	22 36.04	-12 49.5	1.703	2.557	14.3	21.1
110930	2001 <i>UQ</i> ₁₄₇		9 6.3 225°54	0°0/ 6.2	18		360103	2013 <i>CW</i>		9 6.3 253°20	2°5/11.3	16	
7 30	23 23.27	- 3 40.7	2.305	3.124	12.8	20.9	7 30	23 16.63	+ 8 26.7	4.640	5.377	8.0	20.7
8 9	23 19.45	- 4 10.8	2.215	3.119	10.0	20.7	8 9	23 13.45	+ 8 31.2	4.537	5.373	6.7	20.6
8 19	23 13.88	- 4 52.4	2.148	3.113	6.8	20.5	8 19	23 9.43	+ 8 27.0	4.457	5.369	5.1	20.5
8 29	23 6.98	- 5 42.4	2.106	3.106	3.2	20.3	8 29	23 4.82	+ 8 14.6	4.402	5.365	3.6	20.4
9 8	22 59.41	- 6 36.3	2.093	3.100	0.7	20.1	9 8	22 59.92	+ 7 55.0	4.376	5.360	2.6	20.3
9 18	22 51.90	- 7 29.1	2.108	3.093	4.4	20.4	9 18	22 55.03	+ 7 29.7	4.380	5.356	2.8	20.3
9 28	22 45.25	- 8 15.8	2.151	3.086	8.0	20.6	9 28	22 50.51	+ 7 0.8	4.412	5.352	4.1	20.4
10 8	22 40.08	- 8 52.4	2.219	3.079	11.2	20.8	10 8	22 46.66	+ 6 30.6	4.473	5.347	5.7	20.5
429720	2011 <i>JG</i> ₂₉		9 6.3 136°25	0°2/ 6.1	17		242575	2005 <i>GG</i> ₂₅		9 6.4 48°70	1°4/ 7.7	18	
7 30	23 25.29	- 3 27.2	1.895	2.721	14.9	21.2	7 30	23 22.68	+ 0 32.1	1.709	2.533	16.4	20.7
8 9	23 21.29	- 4 7.7	1.821	2.729	11.6	21.0	8 9	23 19.45	+ 0 6.9	1.642	2.544	13.0	20.5
8 19	23 15.21	- 5 2.3	1.769	2.736	7.8	20.8	8 19	23 14.07	- 0 36.0	1.595	2.556	9.0	20.3
8 29	23 7.61	- 6 6.7	1.742	2.743	3.6	20.5	8 29	23 7.12	- 1 33.4	1.571	2.568	4.7	20.0
9 8	22 59.30	- 7 14.7	1.742	2.749	0.9	20.3	9 8	22 59.47	- 2 39.5	1.574	2.580	1.4	19.8
9 18	22 51.18	- 8 19.7	1.771	2.756	5.2	20.7	9 18	22 52.06	- 3 47.2	1.603	2.593	4.9	20.1
9 28	22 44.18	- 9 15.5	1.826	2.761	9.2	20.9	9 28	22 45.85	- 4 49.5	1.659	2.606	9.0	20.4
10 8	22 39.03	- 9 57.8	1.905	2.767	12.7	21.2	10 8	22 41.56	- 5 40.6	1.738	2.619	12.7	20.6
150450	2000 <i>HK</i> ₂		9 6.3 279°45	4°5/ 2.7	18		367888	2011 <i>YO</i> ₁		9 6.4 194°25	1°6/ 7.6	17	

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
491737	2012 VZ ₂₄		9 6.4 259°16	7°0/13.3	18		195457	2002 GE ₉₄		9 6.4 218°24	1°4/ 7.8	18	
7 30	23 24.48	+14 30.4	2.071	2.805	16.7	21.5	7 30	23 25.80	+ 0 30.9	2.260	3.059	13.7	21.5
8 9	23 20.84	+15 3.6	1.970	2.793	14.5	21.3	8 9	23 21.51	+ 0 12.1	2.163	3.051	10.9	21.3
8 19	23 15.10	+15 15.8	1.886	2.780	11.9	21.1	8 19	23 15.35	- 0 21.0	2.087	3.041	7.7	21.1
8 29	23 7.69	+15 4.7	1.825	2.767	9.2	20.9	8 29	23 7.74	- 1 6.2	2.037	3.031	4.1	20.8
9 8	22 59.33	+14 30.3	1.787	2.754	7.3	20.8	9 8	22 59.36	- 1 59.7	2.015	3.021	1.4	20.6
9 18	22 50.90	+13 35.3	1.776	2.741	7.2	20.8	9 18	22 50.99	- 2 56.7	2.022	3.009	4.3	20.8
9 28	22 43.38	+12 25.4	1.790	2.728	9.2	20.9	9 28	22 43.49	- 3 51.4	2.057	2.998	8.0	21.0
10 8	22 37.59	+11 8.6	1.830	2.714	12.0	21.0	10 8	22 37.55	- 4 39.0	2.117	2.985	11.3	21.2
394898	2008 UB ₂₇₂		9 6.4 279°38	1°7/ 7.8	18		456231	2006 KW ₈₆		9 6.4 17°30	19°0/26.9	16	
7 30	23 24.78	+ 0 5.9	1.832	2.649	15.7	21.4	7 30	23 19.73	+32 29.9	1.085	1.781	30.8	20.6
8 9	23 21.28	- 0 1.8	1.732	2.630	12.7	21.1	8 9	23 19.07	+34 23.6	1.026	1.783	28.9	20.4
8 19	23 15.51	- 0 25.8	1.652	2.611	9.0	20.9	8 19	23 14.96	+35 32.8	0.975	1.786	26.5	20.2
8 29	23 7.92	- 1 4.3	1.596	2.591	4.8	20.6	8 29	23 7.94	+35 45.7	0.933	1.789	24.0	20.0
9 8	22 59.28	- 1 53.5	1.566	2.572	1.7	20.3	9 8	22 59.29	+34 54.7	0.904	1.793	21.5	19.9
9 18	22 50.57	- 2 47.6	1.563	2.552	5.1	20.5	9 18	22 50.73	+32 58.7	0.890	1.798	19.6	19.8
9 28	22 42.85	- 3 39.9	1.586	2.532	9.5	20.7	9 28	22 44.14	+30 7.6	0.894	1.804	19.0	19.8
10 8	22 37.04	- 4 24.3	1.634	2.512	13.5	20.9	10 8	22 40.85	+26 41.4	0.915	1.810	19.9	19.9
349818	2009 BC ₁₇₀		9 6.4 337°47	0°7/ 6.9	18		376364	2011 KG ₉		9 6.4 45°50	1°1/ 4.9	18	
7 30	23 23.27	- 2 23.9	1.679	2.513	16.2	20.9	7 30	23 21.08	- 8 21.2	2.638	3.470	11.0	20.8
8 9	23 20.12	- 2 36.8	1.598	2.508	12.8	20.7	8 9	23 17.40	- 8 48.0	2.572	3.484	8.5	20.6
8 19	23 14.68	- 3 5.0	1.537	2.503	8.8	20.4	8 19	23 12.30	- 9 21.2	2.529	3.499	5.6	20.5
8 29	23 7.48	- 3 45.6	1.499	2.498	4.3	20.2	8 29	23 6.21	- 9 57.6	2.512	3.514	2.5	20.3
9 8	22 59.39	- 4 33.3	1.487	2.494	0.9	19.9	9 8	22 59.69	-10 33.2	2.524	3.529	1.5	20.2
9 18	22 51.40	- 5 22.0	1.502	2.490	5.3	20.2	9 18	22 53.35	-11 4.4	2.565	3.544	4.3	20.5
9 28	22 44.60	- 6 5.0	1.542	2.487	9.7	20.5	9 28	22 47.80	-11 28.1	2.633	3.559	7.2	20.7
10 8	22 39.79	- 6 37.2	1.605	2.484	13.7	20.7	10 8	22 43.52	-11 42.2	2.727	3.575	9.7	20.9
299237	2005 LT ₄₃		9 6.4 36°22	2°3/ 4.3	18		376509	2012 KG ₄₉		9 6.4 121°77	0°4/ 6.8	17	
7 30	23 24.62	- 9 56.3	1.765	2.615	14.8	20.7	7 30	23 27.69	- 1 55.8	1.733	2.556	16.3	21.8
8 9	23 20.94	-10 34.0	1.698	2.620	11.4	20.5	8 9	23 23.30	- 2 26.7	1.665	2.569	12.8	21.6
8 19	23 15.07	-11 20.7	1.651	2.626	7.6	20.3	8 19	23 16.65	- 3 13.3	1.617	2.581	8.7	21.4
8 29	23 7.60	-12 10.9	1.630	2.631	3.6	20.1	8 29	23 8.34	- 4 11.8	1.594	2.593	4.2	21.2
9 8	22 59.39	-12 58.1	1.634	2.637	2.9	20.1	9 8	22 59.28	- 5 15.8	1.598	2.605	0.7	20.9
9 18	22 51.42	-13 36.2	1.666	2.643	6.5	20.3	9 18	22 50.49	- 6 18.6	1.629	2.616	5.2	21.3
9 28	22 44.68	-14 0.7	1.723	2.649	10.3	20.6	9 28	22 43.00	- 7 13.3	1.687	2.626	9.5	21.6
10 8	22 39.89	-14 9.2	1.803	2.655	13.7	20.8	10 8	22 37.55	- 7 55.3	1.768	2.637	13.2	21.8
200538	2001 EH		9 6.4 225°86	0°4/ 6.8	18		507923	2014 XX ₃₇		9 6.4 165°75	5°0/ 1.9	18	
7 30	23 24.63	- 1 44.4	2.433	3.239	12.6	21.7	7 30	23 27.18	-14 22.3	1.546	2.408	16.0	20.8
8 9	23 20.49	- 2 21.0	2.332	3.227	10.0	21.5	8 9	23 23.36	-15 38.6	1.481	2.409	12.4	20.6
8 19	23 14.61	- 3 10.7	2.254	3.214	6.8	21.3	8 19	23 16.94	-17 2.9	1.437	2.411	8.5	20.4
8 29	23 7.38	- 4 10.6	2.202	3.200	3.3	21.1	8 29	23 8.56	-18 26.4	1.417	2.412	5.4	20.2
9 8	22 59.42	- 5 16.3	2.179	3.186	0.6	20.8	9 8	22 59.23	-19 39.0	1.423	2.413	5.8	20.2
9 18	22 51.46	- 6 22.5	2.185	3.171	4.2	21.1	9 18	22 50.16	-20 32.8	1.455	2.414	9.2	20.4
9 28	22 44.27	- 7 23.7	2.220	3.155	7.8	21.3	9 28	22 42.54	-21 2.8	1.511	2.414	13.0	20.7
10 8	22 38.51	- 8 15.4	2.281	3.139	11.0	21.5	10 8	22 37.26	-21 8.1	1.588	2.415	16.5	20.9
164160	2003 YL ₁₅₃		9 6.4 282°04	1°3/ 5.4	18		74921	1999 TA ₁₄₅		9 6.4 52°31	2°0/ 7.8	17	
7 30	23 29.31	- 9 12.2	1.876	2.712	14.7	19.7	7 30	23 28.24	+ 0 14.8	1.173	2.016	21.2	19.0
8 9	23 24.71	- 9 16.5	1.781	2.695	11.5	19.4	8 9	23 24.43	+ 0 10.4	1.128	2.040	16.8	18.8
8 19	23 17.75	- 9 28.5	1.709	2.679	7.7	19.2	8 19	23 17.68	- 0 16.0	1.099	2.064	11.6	18.6
8 29	23 8.93	- 9 44.5	1.661	2.662	3.6	18.9	8 29	23 8.83	- 1 0.8	1.092	2.089	6.1	18.4
9 8	22 59.10	- 9 59.9	1.640	2.645	1.8	18.7	9 8	22 59.20	- 1 56.5	1.108	2.114	2.0	18.2
9 18	22 49.30	-10 10.1	1.647	2.628	5.9	18.9	9 18	22 50.18	- 2 54.5	1.149	2.140	6.1	18.5
9 28	22 40.61	-10 11.3	1.680	2.611	10.1	19.2	9 28	22 43.07	- 3 46.0	1.213	2.165	11.1	18.9
10 8	22 33.92	-10 0.9	1.737	2.595	13.9	19.4	10 8	22 38.67	- 4 24.7	1.299	2.191	15.4	19.2
342776	2008 WN ₁₀₃		9 6.4 35°72	2°1/ 4.6	18		53250	Beucher		9 6.4 23°31	0°1/ 6.2	18	
7 30	23 25.64	- 9 9.2	1.606	2.459	16.0	21.0	7 30	23 24.39	- 4 29.5	1.949	2.779	14.4	19.3
8 9	23 21.95	- 9 42.8	1.540	2.463	12.3	20.8	8 9	23 20.61	- 4 50.3	1.871	2.780	11.3	19.1
8 19	23 15.86	-10 26.8	1.493	2.468	8.2	20.6	8 19	23 14.81	- 5 23.0	1.813	2.780	7.6	18.9
8 29	23 7.99	-11 15.5	1.471	2.473	3.8	20.4	8 29	23 7.49	- 6 4.3	1.780	2.781	3.5	18.6
9 8	22 59.31	-12 2.0	1.475	2.478	2.7	20.3	9 8	22 59.44	- 6 49.1	1.775	2.782	0.8	18.4
9 18	22 50.90	-12 39.7	1.504	2.484	6.7	20.6	9 18	22 51.54	- 7 32.0	1.797	2.783	5.0	18.7
9 28	22 43.84	-13 3.6	1.559	2.489	10.9	20.8	9 28	22 44.70	- 8 7.9	1.845	2.784	8.9	19.0
10 8	22 38.93	-13 11.2	1.637	2.495	14.5	21.1	10 8	22 39.63	- 8 32.9	1.918	2.784	12.4	19.2
394899	2008 UL ₂₉₈		9 6.4 209°32	1°8/ 4.4	18		222864	2002 ET ₁₃₆		9 6.4 296°76	0°5/ 7.3	17	
7 30	23 27.70	-10 1.9	2.405	3.232	12.1	22.2	7 30	23 15.00	- 0 52.9	4.268	5.064	7.8	20.0
8 9	23 22.83	-10 34.5	2.315	3.225	9.4	22.0	8 9	23 12.30	- 1 29.5	4.168	5.057	6.1	19.9
8 19	23 16.13	-11 14.0	2.249	3.218	6.2	21.8	8 19	23 8.73	- 2 13.7	4.092	5.049	4.2	19.8
8 29	23 8.06	-11 56.3	2.209	3.210	3.0	21.6	8 29	23 4.53	- 3 3.7	4.044	5.041	2.1	19.6
9 8	22 59.29	-12 36.8	2.199	3.201	2.2	21.5	9 8	23 0.03	- 3 57.1	4.026	5.033	0.5	19.4
9 18	22 50.60	-13 10.9	2.218	3.192	5.3	21.7	9 18	22 55.56	- 4 51.3	4.038	5.025	2.4	19.6
9 28	22 42.80	-13 34.9	2.264	3.182	8.6	21.9	9 28	22 51.46	- 5 43.5	4.080	5.017	4.5	19.7
10 8	22 36.54	-13 46.4	2.336	3.171	11.6	22.1	10 8	22 48.07	- 6 31.1	4.150	5.010	6.4	19.9
188894	2006 XS ₅₆		9 6.4 227°02	2°7/ 3.9	18		340567	2006 KA ₁₀₅		9 6.4 200°29	0°6/ 5.6	18	
7 30	23 27.16	-10 0.7	1.729	2.576	15.2								

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
469413	2001 WC ₃₅		9 6.4 327°93	1°6/ 5.1 18			3930	Vasilev		9 6.4 42°77	0°6/ 5.8 18		
7 30	23 21.04	- 6 35.5	1.301	2.169	18.1	20.5	7 30	23 23.37	- 5 38.7	1.924	2.760	14.4	17.1
8 9	23 19.14	- 7 10.8	1.221	2.153	14.2	20.2	8 9	23 19.74	- 6 3.6	1.859	2.773	11.1	17.0
8 19	23 14.48	- 8 3.1	1.159	2.137	9.5	19.9	8 19	23 14.15	- 6 39.5	1.816	2.786	7.4	16.8
8 29	23 7.57	- 9 7.1	1.120	2.123	4.3	19.6	8 29	23 7.18	- 7 22.3	1.798	2.799	3.3	16.5
9 8	22 59.41	-10 14.1	1.104	2.109	2.3	19.4	9 8	22 59.59	- 8 6.7	1.806	2.813	1.1	16.4
9 18	22 51.30	-11 14.6	1.111	2.096	7.5	19.7	9 18	22 52.26	- 8 47.4	1.842	2.826	5.0	16.7
9 28	22 44.60	-12 0.0	1.142	2.084	12.7	19.9	9 28	22 46.03	- 9 19.7	1.904	2.841	8.8	17.0
10 8	22 40.39	-12 25.0	1.193	2.074	17.3	20.2	10 8	22 41.55	- 9 40.3	1.990	2.855	12.1	17.2
513201	2005 SX ₃₃		9 6.4 293°59	2°6/ 4.3 18			209270	2003 XQ ₁₂		9 6.4 271°41	7°5/30.1 18		
7 30	23 24.95	- 9 9.3	1.543	2.399	16.3	21.3	7 30	23 30.13	-25 40.8	1.979	2.829	13.5	20.6
8 9	23 21.88	- 9 51.7	1.452	2.378	12.8	21.0	8 9	23 25.38	-26 43.5	1.901	2.813	11.0	20.4
8 19	23 16.19	-10 47.3	1.381	2.357	8.6	20.7	8 19	23 18.21	-27 43.7	1.845	2.796	8.7	20.3
8 29	23 8.34	-11 50.5	1.334	2.336	4.1	20.4	8 29	23 9.18	-28 33.0	1.814	2.779	7.6	20.2
9 8	22 59.26	-12 53.1	1.312	2.315	3.2	20.3	9 8	22 59.20	-29 4.0	1.809	2.762	8.3	20.2
9 18	22 50.12	-13 46.8	1.315	2.294	7.6	20.5	9 18	22 49.35	-29 11.4	1.829	2.745	10.6	20.3
9 28	22 42.22	-14 24.4	1.344	2.273	12.3	20.8	9 28	22 40.77	-28 53.4	1.873	2.728	13.3	20.4
10 8	22 36.59	-14 41.9	1.393	2.252	16.6	21.0	10 8	22 34.30	-28 11.6	1.938	2.710	15.9	20.6
301305	2009 BU ₁₃₃		9 6.4 156°49	0°3/ 6.7 18			401715	2013 HS ₁₁₆		9 6.4 348°59	1°3/ 5.1 18		
7 30	23 24.91	- 3 4.5	1.937	2.761	14.7	21.8	7 30	23 22.91	- 7 42.9	1.996	2.837	13.7	21.0
8 9	23 21.03	- 3 23.9	1.857	2.762	11.6	21.6	8 9	23 19.46	- 8 11.2	1.917	2.834	10.6	20.7
8 19	23 15.10	- 3 56.5	1.798	2.763	7.9	21.3	8 19	23 14.05	- 8 49.2	1.860	2.832	7.1	20.5
8 29	23 7.64	- 4 39.0	1.764	2.764	3.8	21.1	8 29	23 7.18	- 9 32.7	1.828	2.830	3.2	20.3
9 8	22 59.43	- 5 26.5	1.757	2.765	0.7	20.9	9 8	22 59.60	-10 16.4	1.823	2.828	1.7	20.2
9 18	22 51.36	- 6 13.6	1.778	2.765	4.9	21.2	9 18	22 52.16	-10 55.0	1.845	2.827	5.4	20.4
9 28	22 44.35	- 6 54.8	1.826	2.766	8.9	21.4	9 28	22 45.72	-11 23.8	1.894	2.826	9.2	20.7
10 8	22 39.14	- 7 25.6	1.897	2.766	12.4	21.6	10 8	22 40.99	-11 39.8	1.967	2.825	12.5	20.9
353351	2010 VO ₁₃₈		9 6.4 246°23	1°7/ 2.8 16			157328	2004 TV ₁₂		9 6.4 319°01	1°7/ 8.3 18		
7 30	23 16.21	-13 57.5	4.605	5.439	6.6	21.2	7 30	23 18.96	+ 2 50.3	2.033	2.843	14.6	19.6
8 9	23 13.15	-14 31.4	4.519	5.433	5.1	21.1	8 9	23 16.45	+ 2 12.7	1.939	2.831	11.8	19.4
8 19	23 9.26	-15 7.4	4.458	5.428	3.4	20.9	8 19	23 12.09	+ 1 16.2	1.865	2.820	8.4	19.2
8 29	23 4.77	-15 43.3	4.426	5.422	1.9	20.8	8 29	23 6.31	+ 0 3.2	1.816	2.810	4.6	18.9
9 8	23 0.00	-16 16.7	4.424	5.417	2.0	20.8	9 8	22 59.76	- 1 21.3	1.794	2.799	1.7	18.7
9 18	22 55.28	-16 45.4	4.451	5.411	3.4	20.9	9 18	22 53.24	- 2 50.5	1.799	2.789	4.4	18.9
9 28	22 50.93	-17 7.7	4.507	5.406	5.1	21.1	9 28	22 47.59	- 4 17.0	1.832	2.779	8.3	19.1
10 8	22 47.28	-17 22.3	4.588	5.400	6.7	21.2	10 8	22 43.52	- 5 33.9	1.890	2.770	11.9	19.3
378233	2007 BJ ₇₈		9 6.4 239°83	0°9/ 7.2 18			222436	2001 QU ₁₄		9 6.4 63°09	4°6/ 9.2 16		
7 30	23 26.45	- 1 17.9	1.823	2.642	15.7	21.9	7 30	23 34.79	+ 2 44.3	1.430	2.237	19.9	20.1
8 9	23 22.52	- 1 35.7	1.731	2.631	12.5	21.6	8 9	23 29.22	+ 3 43.3	1.371	2.256	16.2	19.9
8 19	23 16.30	- 2 9.3	1.659	2.621	8.7	21.4	8 19	23 20.82	+ 4 24.7	1.329	2.275	11.9	19.7
8 29	23 8.29	- 2 56.1	1.612	2.610	4.4	21.1	8 29	23 10.35	+ 4 47.4	1.311	2.294	7.5	19.5
9 8	22 59.29	- 3 51.2	1.592	2.598	1.0	20.8	9 8	22 59.00	+ 4 53.0	1.317	2.314	4.7	19.4
9 18	22 50.32	- 4 48.4	1.599	2.587	5.2	21.1	9 18	22 48.12	+ 4 45.2	1.349	2.334	6.5	19.6
9 28	22 42.43	- 5 41.0	1.632	2.574	9.5	21.3	9 28	22 38.98	+ 4 29.9	1.407	2.354	10.4	19.9
10 8	22 36.49	- 6 23.3	1.690	2.562	13.5	21.6	10 8	22 32.47	+ 4 13.5	1.488	2.373	14.1	20.1
16974	Iphthime		9 6.4 334°57	3°7/13.6 18			450556	2006 EX ₁₅		9 6.4 279°11	1°2/ 7.9 17		
7 30	23 16.20	+13 55.4	4.157	4.863	9.3	17.0	7 30	23 19.50	+ 1 56.8	2.419	3.221	12.8	21.6
8 9	23 13.27	+13 59.7	4.055	4.860	8.0	16.9	8 9	23 16.53	+ 1 11.5	2.323	3.212	10.2	21.4
8 19	23 9.42	+13 52.4	3.974	4.858	6.4	16.8	8 19	23 11.97	+ 0 10.3	2.249	3.204	7.2	21.2
8 29	23 4.89	+13 33.7	3.918	4.855	4.9	16.7	8 29	23 6.19	- 1 4.1	2.201	3.195	3.8	21.0
9 8	23 0.02	+13 4.5	3.888	4.852	3.8	16.6	9 8	22 59.79	- 2 27.0	2.181	3.187	1.2	20.8
9 18	22 55.19	+12 26.5	3.887	4.850	3.8	16.6	9 18	22 53.43	- 3 52.9	2.190	3.179	3.9	21.0
9 28	22 50.76	+11 42.2	3.914	4.847	4.8	16.7	9 28	22 47.80	- 5 15.3	2.227	3.170	7.3	21.2
10 8	22 47.10	+10 54.8	3.968	4.845	6.3	16.8	10 8	22 43.51	- 6 28.9	2.291	3.162	10.4	21.4
43057	1999 VN ₉₂		9 6.4 302°69	1°6/ 7.8 18			485214	2010 UT ₈₅		9 6.4 265°54	0°3/ 6.0 17		
7 30	23 22.43	+ 0 41.0	1.695	2.519	16.5	18.8	7 30	23 22.89	- 4 30.1	2.483	3.302	12.0	22.6
8 9	23 19.56	+ 0 23.3	1.605	2.507	13.2	18.6	8 9	23 19.18	- 5 2.6	2.378	3.282	9.4	22.4
8 19	23 14.41	- 0 13.0	1.534	2.495	9.4	18.3	8 19	23 13.78	- 5 46.0	2.296	3.261	6.4	22.2
8 29	23 7.45	- 1 5.7	1.487	2.483	5.0	18.1	8 29	23 7.07	- 6 37.4	2.240	3.240	2.9	21.9
9 8	22 59.50	- 2 10.0	1.465	2.471	1.6	17.8	9 8	22 59.62	- 7 32.4	2.212	3.219	0.8	21.7
9 18	22 51.57	- 3 18.7	1.470	2.460	5.2	18.0	9 18	22 52.14	- 8 26.3	2.214	3.198	4.4	21.9
9 28	22 44.74	- 4 24.2	1.500	2.449	9.7	18.3	9 28	22 45.38	- 9 14.1	2.243	3.176	7.9	22.1
10 8	22 39.87	- 5 19.6	1.554	2.438	13.8	18.5	10 8	22 39.98	- 9 52.0	2.298	3.154	11.0	22.3
147181	2002 VZ ₅₉		9 6.4 5°48	3°2/ 8.7 18			475337	2006 AT ₁₀₄		9 6.4 251°51	1°8/ 7.9 18		
7 30	23 22.43	+ 1 59.9	1.201	2.046	20.7	19.2	7 30	23 27.06	- 0 13.6	1.829	2.642	15.9	22.0
8 9	23 20.26	+ 2 12.7	1.134	2.046	16.8	18.9	8 9	23 22.97	- 0 10.5	1.739	2.634	12.7	21.8
8 19	23 15.20	+ 2 2.5	1.084	2.046	12.1	18.7	8 19	23 16.61	- 0 22.2	1.669	2.626	9.0	21.5
8 29	23 7.88	+ 1 30.3	1.054	2.048	7.0	18.4	8 29	23 8.46	- 0 47.2	1.623	2.618	4.9	21.3
9 8	22 59.43	+ 0 41.2	1.046	2.050	3.3	18.2	9 8	22 59.35	- 1 21.7	1.604	2.609	1.8	21.0
9 18	22 51.20	- 0 16.8	1.062	2.054	6.3	18.4	9 18	22 50.29	- 2 0.9	1.612	2.601	5.0	21.2
9 28	22 44.58	- 1 14.3	1.101	2.058	11.3	18.7	9 28	22 42.33	- 2 38.8	1.646	2.592	9.2	21.5
10 8	22 40.58	- 2 2.4	1.161	2.063	15.9	19.0	10 8	22 36.33	- 3 10.1	1.705	2.583	13.1	21.7
373453	2000 DD ₂₂		9 6.4 179°95	1°2/ 7.4 17			126548	2002 CB ₉₅		9 6.4 141°13	0°8/ 5.4 18		
7 30	23 29.91	- 1 33.3	1.900	2.710	15.5	2							

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
40177	1998 <i>RU</i> ₂₈		9 6.4	8 ^o .12	1 ^o .4/ 5.2	18	323086	2002 <i>TJ</i> ₃₂₅		9 6.4	32 ^o .11	2 ^o .0/ 5.1	17
7 30	23 21.74	- 7 40.4	1.683	2.536	15.3	18.1	7 30	23 26.44	- 8 29.2	1.014	1.894	21.1	20.1
8 9	23 18.85	- 8 6.5	1.614	2.538	11.9	17.9	8 9	23 23.49	- 8 48.7	0.973	1.911	16.3	19.9
8 19	23 13.78	- 8 43.5	1.566	2.540	7.9	17.7	8 19	23 17.30	- 9 22.3	0.949	1.929	10.7	19.7
8 29	23 7.09	- 9 26.7	1.541	2.544	3.6	17.4	8 29	23 8.78	-10 2.5	0.945	1.949	4.9	19.4
9 8	22 59.64	-10 10.0	1.543	2.548	1.9	17.3	9 8	22 59.39	-10 40.3	0.964	1.969	2.7	19.4
9 18	22 52.41	-10 47.3	1.570	2.553	6.0	17.6	9 18	22 50.70	-11 7.5	1.005	1.991	7.9	19.8
9 28	22 46.37	-11 13.5	1.623	2.559	10.0	17.8	9 28	22 44.11	-11 18.5	1.069	2.014	13.0	20.1
10 8	22 42.27	-11 25.5	1.698	2.566	13.6	18.1	10 8	22 40.46	-11 11.3	1.152	2.037	17.4	20.5
26662	2000 <i>WB</i> ₁₈₁		9 6.4	30 ^o .68	5 ^o .1/11.3	17	435016	2006 <i>VT</i> ₅₆		9 6.4	230 ^o .23	1 ^o .9/ 4.7	17
7 30	23 18.23	+10 23.3	1.182	2.000	22.5	17.4	7 30	23 27.96	- 8 16.3	1.903	2.739	14.5	22.8
8 9	23 16.80	+ 9 56.9	1.131	2.020	18.6	17.2	8 9	23 23.64	- 8 58.8	1.813	2.728	11.3	22.6
8 19	23 12.68	+ 8 55.9	1.097	2.040	14.0	17.0	8 19	23 17.05	- 9 52.6	1.745	2.716	7.5	22.3
8 29	23 6.62	+ 7 22.6	1.081	2.063	9.2	16.9	8 29	23 8.70	-10 52.7	1.702	2.703	3.5	22.1
9 8	22 59.74	+ 5 25.3	1.088	2.086	5.4	16.7	9 8	22 59.38	-11 52.4	1.687	2.690	2.4	22.0
9 18	22 53.28	+ 3 16.3	1.119	2.110	6.3	16.9	9 18	22 50.10	-12 45.2	1.699	2.677	6.3	22.2
9 28	22 48.42	+ 1 10.0	1.175	2.135	10.4	17.2	9 28	22 41.89	-13 25.4	1.739	2.663	10.3	22.4
10 8	22 45.93	- 0 41.7	1.252	2.161	14.5	17.5	10 8	22 35.62	-13 49.4	1.801	2.648	14.0	22.6
412558	2014 <i>NH</i> ₄₅		9 6.4	28 ^o .94	7 ^o .2/14.9	18	154436	2003 <i>BD</i> ₆₆		9 6.4	225 ^o .53	1 ^o .2/ 5.3	18
7 30	23 22.06	+17 17.0	2.242	2.955	16.1	20.1	7 30	23 26.31	- 6 9.7	1.912	2.745	14.6	20.7
8 9	23 18.71	+17 51.2	2.156	2.959	14.1	19.9	8 9	23 22.30	- 6 52.1	1.825	2.737	11.4	20.5
8 19	23 13.52	+18 4.3	2.088	2.963	11.8	19.8	8 19	23 16.12	- 7 47.2	1.758	2.728	7.6	20.3
8 29	23 6.95	+17 54.2	2.041	2.967	9.4	19.6	8 29	23 8.24	- 8 50.6	1.718	2.719	3.5	20.0
9 8	22 59.67	+17 21.5	2.018	2.971	7.7	19.5	9 8	22 59.47	- 9 55.9	1.704	2.709	1.7	19.8
9 18	22 52.46	+16 28.8	2.020	2.975	7.3	19.5	9 18	22 50.76	-10 56.3	1.718	2.699	5.8	20.1
9 28	22 46.15	+15 21.5	2.049	2.980	8.6	19.6	9 28	22 43.10	-11 45.7	1.759	2.689	9.9	20.3
10 8	22 41.41	+14 6.7	2.102	2.985	10.7	19.8	10 8	22 37.31	-12 20.0	1.824	2.678	13.5	20.5
321513	2009 <i>SG</i> ₁₉₃		9 6.4	289 ^o .23	1 ^o .5/ 9.3	17	116664	2004 <i>CL</i> ₄₀		9 6.4	97 ^o .89	0 ^o .8/ 5.6	18
7 30	23 15.71	+ 3 19.3	4.365	5.137	8.0	20.4	7 30	23 25.11	- 3 53.0	1.559	2.400	16.9	19.7
8 9	23 12.83	+ 3 5.4	4.265	5.133	6.4	20.3	8 9	23 21.63	- 4 47.5	1.493	2.409	13.1	19.4
8 19	23 9.10	+ 2 43.4	4.188	5.128	4.7	20.2	8 19	23 15.73	- 5 59.0	1.447	2.418	8.8	19.2
8 29	23 4.75	+ 2 14.4	4.139	5.123	2.8	20.0	8 29	23 8.05	- 7 21.7	1.425	2.426	3.9	19.0
9 8	23 0.11	+ 1 40.1	4.118	5.118	1.5	19.9	9 8	22 59.53	- 8 47.2	1.429	2.435	1.5	18.8
9 18	22 55.49	+ 1 2.5	4.127	5.114	2.4	20.0	9 18	22 51.27	-10 6.6	1.460	2.444	6.2	19.1
9 28	22 51.26	+ 0 24.1	4.166	5.109	4.2	20.1	9 28	22 44.37	-11 12.3	1.516	2.452	10.6	19.4
10 8	22 47.72	- 0 12.6	4.232	5.104	6.0	20.2	10 8	22 39.62	-11 59.3	1.595	2.460	14.5	19.7
461830	2006 <i>BA</i> ₁₈₂		9 6.4	113 ^o .18	0 ^o .9/ 5.7	17	137551	1999 <i>VL</i> ₈₄		9 6.4	163 ^o .12	1 ^o .7/ 7.9	18
7 30	23 30.34	- 5 13.1	1.491	2.329	17.7	21.9	7 30	23 26.84	+ 0 48.6	1.663	2.480	17.1	20.4
8 9	23 25.70	- 5 50.6	1.430	2.345	13.7	21.7	8 9	23 22.92	+ 0 32.9	1.585	2.483	13.7	20.2
8 19	23 18.43	- 6 43.0	1.389	2.360	9.1	21.5	8 19	23 16.61	- 0 1.1	1.527	2.485	9.6	19.9
8 29	23 9.25	- 7 44.6	1.373	2.374	4.1	21.2	8 29	23 8.48	- 0 51.1	1.492	2.487	5.1	19.7
9 8	22 59.25	- 8 47.6	1.382	2.388	1.5	21.1	9 8	22 59.44	- 1 51.6	1.483	2.489	1.7	19.5
9 18	22 49.64	- 9 44.3	1.418	2.402	6.3	21.4	9 18	22 50.56	- 2 55.8	1.501	2.490	5.2	19.7
9 28	22 41.60	-10 28.1	1.479	2.415	10.9	21.7	9 28	22 42.94	- 3 56.2	1.545	2.491	9.6	20.0
10 8	22 35.97	-10 55.2	1.563	2.427	14.8	22.0	10 8	22 37.43	- 4 46.5	1.613	2.492	13.6	20.2
360946	2005 <i>UK</i> ₃₉		9 6.4	344 ^o .52	4 ^o .7/11.2	18	465320	2007 <i>UK</i> ₁₄₀		9 6.4	133 ^o .31	4 ^o .0/ 4.2	17
7 30	23 20.59	+ 8 51.8	1.910	2.691	16.4	20.5	7 30	23 24.45	-12 24.7	0.900	1.797	21.6	20.1
8 9	23 17.85	+ 8 59.6	1.822	2.686	13.8	20.3	8 9	23 22.54	-12 42.5	0.853	1.801	16.7	19.8
8 19	23 13.10	+ 8 46.8	1.752	2.682	10.6	20.1	8 19	23 17.02	-13 10.5	0.822	1.806	11.2	19.6
8 29	23 6.81	+ 8 12.9	1.705	2.677	7.3	19.9	8 29	23 8.79	-13 40.0	0.810	1.813	5.7	19.3
9 8	22 59.71	+ 7 20.5	1.683	2.674	4.9	19.8	9 8	22 59.40	-14 1.0	0.819	1.822	4.7	19.3
9 18	22 52.67	+ 6 14.4	1.687	2.671	5.5	19.8	9 18	22 50.61	-14 5.9	0.849	1.832	9.6	19.6
9 28	22 46.61	+ 5 1.6	1.717	2.668	8.5	20.0	9 28	22 44.06	-13 50.2	0.900	1.844	14.9	19.9
10 8	22 42.27	+ 3 49.8	1.772	2.666	11.8	20.2	10 8	22 40.75	-13 13.9	0.968	1.858	19.5	20.3
403421	2009 <i>SZ</i> ₁₁₁		9 6.4	292 ^o .81	2 ^o .1/ 8.6	18	144449	2004 <i>EV</i> ₄₀		9 6.4	158 ^o .88	0 ^o .7/ 5.7	17
7 30	23 22.09	+ 2 3.1	2.287	3.086	13.5	20.9	7 30	23 28.45	- 5 37.9	1.806	2.636	15.4	21.3
8 9	23 18.69	+ 1 58.5	2.186	3.071	11.0	20.7	8 9	23 23.94	- 6 7.9	1.731	2.641	12.0	21.1
8 19	23 13.52	+ 1 39.8	2.106	3.056	7.9	20.5	8 19	23 17.16	- 6 50.2	1.677	2.645	8.0	20.9
8 29	23 6.98	+ 1 8.2	2.050	3.040	4.6	20.3	8 29	23 8.69	- 7 40.4	1.648	2.649	3.6	20.6
9 8	22 59.68	+ 0 26.7	2.022	3.025	2.1	20.1	9 8	22 59.41	- 8 32.7	1.646	2.653	1.3	20.5
9 18	22 52.36	- 0 20.6	2.021	3.010	4.2	20.2	9 18	22 50.34	- 9 20.6	1.672	2.656	5.6	20.8
9 28	22 45.83	- 1 8.5	2.049	2.995	7.6	20.4	9 28	22 42.49	- 9 58.7	1.725	2.658	9.8	21.0
10 8	22 40.76	- 1 52.0	2.101	2.980	10.9	20.6	10 8	22 36.65	-10 23.3	1.801	2.660	13.4	21.3
503502	2016 <i>EG</i> ₂₀₁		9 6.4	46 ^o .22	5 ^o .2/ 2.8	17	142485	2002 <i>TJ</i> ₂₅		9 6.4	213 ^o .97	3 ^o .0/ 4.0	18
7 30	23 27.06	-12 56.3	1.068	1.952	20.0	20.7	7 30	23 29.63	-11 36.9	1.675	2.523	15.6	19.8
8 9	23 23.97	-14 5.1	1.026	1.966	15.3	20.5	8 9	23 25.13	-12 11.9	1.599	2.520	12.1	19.6
8 19	23 17.64	-15 23.9	1.002	1.982	10.3	20.2	8 19	23 18.13	-12 55.1	1.544	2.516	8.1	19.3
8 29	23 8.95	-16 41.4	0.999	1.998	6.0	20.1	8 29	23 9.20	-13 40.7	1.513	2.513	4.2	19.1
9 8	22 59.35	-17 45.6	1.019	2.015	6.1	20.1	9 8	22 59.32	-14 21.4	1.509	2.509	3.5	19.0
9 18	22 50.38	-18 27.2	1.061	2.032	10.2	20.4	9 18	22 49.63	-14 51.0	1.531	2.505	7.3	19.3
9 28	22 43.49	-18 42.0	1.126	2.049	14.7	20.7	9 28	22 41.29	-15 5.1	1.579	2.500	11.4	19.5
10 8	22 39.53	-18 30.2	1.209	2.067	18.6	21.0	10 8	22 35.18	-15 1				

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
347410	2012 <i>SO</i> ₃₁		9 6.4 295°12	0°7/ 5.8	18		288496	2004 <i>FG</i> ₅₄		9 6.4 191°99	0°7/ 7.1	18	
7 30	23 23.12	- 4 35.9	1.686	2.527	15.8	21.2	7 30	23 27.49	- 1 15.7	1.966	2.778	15.0	22.3
8 9	23 20.14	- 5 13.9	1.598	2.514	12.4	21.0	8 9	23 23.11	- 1 41.7	1.880	2.777	11.9	22.1
8 19	23 14.85	- 6 7.5	1.531	2.502	8.4	20.7	8 19	23 16.60	- 2 22.7	1.815	2.775	8.2	21.9
8 29	23 7.73	- 7 12.4	1.487	2.489	3.8	20.4	8 29	23 8.48	- 3 15.8	1.775	2.772	4.1	21.6
9 8	22 59.61	- 8 22.0	1.470	2.477	1.3	20.2	9 8	22 59.52	- 4 15.9	1.762	2.769	0.8	21.4
9 18	22 51.52	- 9 28.4	1.479	2.464	6.0	20.5	9 18	22 50.65	- 5 16.9	1.778	2.765	4.8	21.7
9 28	22 44.54	-10 24.4	1.514	2.452	10.5	20.7	9 28	22 42.84	- 6 12.6	1.821	2.761	8.9	21.9
10 8	22 39.58	-11 4.7	1.572	2.440	14.5	20.9	10 8	22 36.86	- 6 57.7	1.889	2.755	12.5	22.1
506815	2007 <i>RA</i> ₁₃₆		9 6.4 328°85	2°3/ 8.0	18		65082	2002 <i>BA</i> ₁₃		9 6.4 67°47	6°0/31.1	18	
7 30	23 18.30	+ 1 19.7	1.075	1.937	21.4	20.7	7 30	23 25.72	-21 47.6	2.072	2.927	12.7	18.6
8 9	23 17.57	+ 1 10.8	0.997	1.920	17.4	20.4	8 9	23 21.58	-22 53.7	2.016	2.936	10.0	18.4
8 19	23 13.80	+ 0 34.4	0.934	1.904	12.5	20.1	8 19	23 15.43	-23 58.9	1.982	2.944	7.5	18.3
8 29	23 7.47	- 0 28.3	0.890	1.888	6.8	19.7	8 29	23 7.85	-24 56.2	1.975	2.952	6.0	18.2
9 8	22 59.65	- 1 50.6	0.868	1.874	2.3	19.4	9 8	22 59.65	-25 38.9	1.994	2.961	6.7	18.3
9 18	22 51.78	- 3 21.6	0.867	1.861	6.9	19.7	9 18	22 51.73	-26 2.7	2.039	2.969	8.9	18.4
9 28	22 45.49	- 4 48.0	0.889	1.849	12.8	19.9	9 28	22 44.97	-26 5.5	2.108	2.977	11.4	18.6
10 8	22 42.03	- 5 58.2	0.929	1.838	18.3	20.2	10 8	22 40.02	-25 48.0	2.200	2.986	13.8	18.8
69579	1998 <i>DQ</i> ₁		9 6.4 166°26	0°9/ 5.6	17		302763	2002 <i>VT</i> ₉₇		9 6.4 268°63	4°5/11.1	18	
7 30	23 28.51	- 5 16.8	1.736	2.567	15.9	20.8	7 30	23 24.28	+ 9 21.5	2.316	3.073	14.6	21.7
8 9	23 24.10	- 5 57.1	1.660	2.571	12.4	20.6	8 9	23 20.55	+ 9 30.2	2.201	3.049	12.3	21.5
8 19	23 17.35	- 6 51.1	1.606	2.575	8.3	20.4	8 19	23 14.91	+ 9 21.2	2.105	3.024	9.6	21.3
8 29	23 8.82	- 7 54.2	1.577	2.578	3.7	20.1	8 29	23 7.75	+ 8 53.7	2.032	2.999	6.8	21.0
9 8	22 59.43	- 8 59.3	1.575	2.581	1.5	19.9	9 8	22 59.68	+ 8 9.1	1.986	2.974	4.7	20.9
9 18	22 50.23	- 9 59.3	1.600	2.583	5.9	20.2	9 18	22 51.46	+ 7 10.6	1.968	2.948	5.3	20.9
9 28	22 42.30	-10 47.9	1.652	2.584	10.2	20.5	9 28	22 43.98	+ 6 3.9	1.977	2.921	8.0	21.0
10 8	22 36.45	-11 21.0	1.727	2.585	13.9	20.7	10 8	22 37.99	+ 4 55.3	2.012	2.895	11.1	21.1
220786	2004 <i>TM</i> ₁₇₂		9 6.4 333°44	3°2/ 9.3	18		185466	2007 <i>BT</i> ₃₅		9 6.4 357°36	3°8/ 2.2	18	
7 30	23 24.41	+ 3 16.9	2.094	2.889	14.8	20.0	7 30	23 21.91	-13 14.3	1.973	2.829	13.3	20.2
8 9	23 20.61	+ 3 37.7	2.004	2.884	12.0	19.8	8 9	23 18.78	-14 24.9	1.902	2.828	10.2	20.0
8 19	23 14.87	+ 3 44.3	1.935	2.879	8.9	19.6	8 19	23 13.68	-15 42.7	1.854	2.828	6.9	19.8
8 29	23 7.65	+ 3 36.9	1.890	2.874	5.5	19.4	8 29	23 7.10	-17 1.1	1.831	2.827	4.2	19.6
9 8	22 59.65	+ 3 17.8	1.870	2.870	3.2	19.3	9 8	22 59.82	-18 12.7	1.835	2.827	4.5	19.7
9 18	22 51.70	+ 2 50.3	1.879	2.865	4.7	19.4	9 18	22 52.68	-19 10.9	1.867	2.827	7.4	19.8
9 28	22 44.69	+ 2 19.2	1.914	2.861	8.0	19.6	9 28	22 46.57	-19 51.1	1.923	2.827	10.6	20.0
10 8	22 39.33	+ 1 49.4	1.975	2.858	11.3	19.8	10 8	22 42.19	-20 11.3	2.003	2.828	13.6	20.2
447104	2004 <i>TL</i> ₁₆₂		9 6.4 338°46	1°1/ 5.4	17		246263	2007 <i>TV</i> ₁₇		9 6.4 16°85	2°1/ 7.5	17	
7 30	23 21.55	- 7 3.5	1.803	2.650	14.7	20.9	7 30	23 25.70	- 3 11.7	0.911	1.788	23.2	19.3
8 9	23 18.71	- 7 29.0	1.719	2.640	11.4	20.7	8 9	23 23.46	- 2 31.8	0.861	1.793	18.5	19.0
8 19	23 13.76	- 8 5.8	1.657	2.630	7.6	20.4	8 19	23 17.67	- 2 10.9	0.826	1.801	12.9	18.7
8 29	23 7.17	- 8 49.8	1.618	2.621	3.5	20.2	8 29	23 9.16	- 2 7.5	0.810	1.810	6.7	18.4
9 8	22 59.74	- 9 35.3	1.606	2.612	1.6	20.0	9 8	22 59.44	- 2 16.4	0.814	1.821	2.1	18.2
9 18	22 52.40	-10 16.3	1.620	2.604	5.7	20.3	9 18	22 50.25	- 2 30.8	0.840	1.833	7.1	18.6
9 28	22 46.11	-10 47.3	1.660	2.597	9.8	20.5	9 28	22 43.24	- 2 42.9	0.886	1.846	12.9	18.9
10 8	22 41.67	-11 4.7	1.723	2.590	13.5	20.7	10 8	22 39.48	- 2 46.4	0.952	1.861	17.9	19.3
109225	2001 <i>QH</i> ₈₉		9 6.4 60°38	3°1/ 4.5	17		115545	2003 <i>UW</i> ₆₄		9 6.4 61°28	5°1/ 1.1	18	
7 30	23 36.10	-12 39.9	1.314	2.168	18.7	19.0	7 30	23 23.52	-15 13.5	1.734	2.598	14.5	19.3
8 9	23 30.14	-12 55.1	1.274	2.198	14.4	18.8	8 9	23 20.29	-16 44.5	1.673	2.602	11.2	19.1
8 19	23 21.29	-13 16.3	1.254	2.228	9.5	18.7	8 19	23 14.81	-18 22.2	1.634	2.607	7.7	18.9
8 29	23 10.51	-13 37.0	1.257	2.258	4.8	18.5	8 29	23 7.66	-19 57.8	1.621	2.612	5.3	18.8
9 8	22 59.16	-13 50.2	1.286	2.288	3.7	18.5	9 8	22 59.73	-21 21.8	1.633	2.617	6.0	18.8
9 18	22 48.64	-13 51.4	1.341	2.318	7.7	18.8	9 18	22 52.02	-22 26.8	1.672	2.623	8.9	19.0
9 28	22 40.17	-13 38.0	1.420	2.347	11.9	19.1	9 28	22 45.56	-23 8.0	1.736	2.628	12.3	19.2
10 8	22 34.48	-13 10.3	1.521	2.377	15.6	19.4	10 8	22 41.08	-23 24.6	1.820	2.633	15.2	19.4
512593	2016 <i>SD</i> ₄₉		9 6.4 259°50	8°2/27.3	18		513999	2014 <i>HF</i> ₁₅₃		9 6.4 213°47	2°5/ 8.9	18	
7 30	23 23.54	-23 26.1	1.834	2.700	13.7	20.6	7 30	23 24.25	+ 3 0.9	2.078	2.874	14.8	21.8
8 9	23 20.44	-25 40.8	1.773	2.696	11.0	20.4	8 9	23 20.49	+ 2 58.4	1.991	2.873	12.0	21.6
8 19	23 15.01	-27 56.5	1.737	2.692	8.9	20.3	8 19	23 14.79	+ 2 40.1	1.924	2.872	8.7	21.4
8 29	23 7.78	-30 2.2	1.726	2.688	8.2	20.2	8 29	23 7.63	+ 2 7.4	1.882	2.871	5.1	21.2
9 8	22 59.63	-31 47.0	1.742	2.683	9.5	20.3	9 8	22 59.73	+ 1 23.4	1.867	2.869	2.6	21.0
9 18	22 51.59	-33 3.4	1.782	2.679	11.9	20.4	9 18	22 51.92	+ 0 32.9	1.879	2.868	4.5	21.2
9 28	22 44.74	-33 47.7	1.845	2.675	14.5	20.6	9 28	22 45.05	- 0 18.3	1.919	2.866	8.0	21.4
10 8	22 39.93	-34 1.0	1.926	2.670	16.9	20.8	10 8	22 39.85	- 1 4.8	1.984	2.865	11.4	21.6
5549	Bobstefanik		9 6.4 153°99	2°8/ 4.1	18		20599	1999 <i>RD</i> ₁₉₆		9 6.4 299°86	6°3/12.7	18	
7 30	23 32.10	-13 19.8	1.972	2.808	14.0	17.5	7 30	23 20.94	+12 54.5	1.743	2.509	18.3	17.9
8 9	23 26.56	-13 38.3	1.899	2.813	10.9	17.3	8 9	23 18.50	+13 1.2	1.646	2.495	15.7	17.6
8 19	23 18.81	-14 1.1	1.848	2.817	7.3	17.1	8 19	23 13.81	+12 41.8	1.565	2.480	12.6	17.4
8 29	23 9.44	-14 23.5	1.823	2.821	3.8	16.9	8 29	23 7.31	+11 54.5	1.505	2.466	9.3	17.2
9 8	22 59.34	-14 40.2	1.826	2.825	3.2	16.9	9 8	22 59.78	+10 40.8	1.469	2.452	6.7	17.0
9 18	22 49.51	-14 47.1	1.857	2.828	6.4	17.1	9 18	22 52.19	+ 9 6.0	1.459	2.438	6.8	17.0
9 28	22 40.94	-14 41.4	1.915	2.831	10.0	17.3	9 28	22 45.63	+ 7 19.1	1.474	2.425	9.6	17.1
10 8	22 34.36	-14 22.4	1.997	2.834	13.2	17.5	10 8	22 41.00	+ 5 30.8	1.513	2.412	13.1	17.3
150729	2001 <i>QG</i> ₄₀		9 6.4 3°48	0°2/ 6.2	18		412542	2014 <i>MY</i> ₆₂		9 6.4 83°87			

EPHEMERIDES

9 6.4

9 6.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
386649	2009 <i>SK</i> ₃₁₉	9 6.4 345°98	0°9/ 8.1 17				251850	1999 <i>TN</i> ₃₂₁	9 6.4 342°85	4°7/ 1.9 18			
7 30	23 16.12	+ 0 1.9	4.382	5.170	7.7	21.0	7 30	23 25.74	-18 6.9	2.012	2.867	13.1	20.0
8 9	23 13.17	- 0 12.7	4.289	5.170	6.1	20.9	8 9	23 21.74	-18 50.2	1.940	2.863	10.2	19.8
8 19	23 9.36	- 0 34.1	4.219	5.169	4.3	20.8	8 19	23 15.68	-19 35.3	1.891	2.860	7.2	19.6
8 29	23 4.96	- 1 1.2	4.177	5.169	2.3	20.6	8 29	23 8.08	-20 16.3	1.867	2.857	5.0	19.5
9 8	23 0.27	- 1 31.9	4.163	5.168	0.9	20.5	9 8	22 59.77	-20 47.0	1.870	2.855	5.3	19.5
9 18	22 55.61	- 2 4.4	4.180	5.168	2.3	20.6	9 18	22 51.65	-21 2.7	1.899	2.852	7.9	19.6
9 28	22 51.35	- 2 36.3	4.226	5.168	4.2	20.8	9 28	22 44.65	-21 0.7	1.954	2.850	10.9	19.8
10 8	22 47.79	- 3 5.4	4.300	5.167	6.0	20.9	10 8	22 39.47	-20 40.8	2.031	2.848	13.7	20.0
318574	2005 <i>GL</i> ₁₄₄	9 6.4 13°11	7°8/31.9 18				86106	1999 <i>RP</i> ₁₁₃	9 6.4 309°01	1°6/ 7.9 18 R			
7 30	23 25.08	-18 57.0	1.125	2.015	18.7	19.5	7 30	23 25.42	- 0 50.9	2.090	2.900	14.3	18.6
8 9	23 22.60	-20 13.3	1.076	2.017	14.7	19.3	8 9	23 21.43	- 0 42.4	2.000	2.894	11.4	18.4
8 19	23 16.89	-21 33.0	1.045	2.020	10.7	19.1	8 19	23 15.47	- 0 46.1	1.931	2.887	8.0	18.2
8 29	23 8.76	-22 43.9	1.035	2.025	8.0	19.0	8 29	23 8.01	- 1 0.5	1.887	2.881	4.4	18.0
9 8	22 59.55	-23 34.0	1.048	2.030	8.8	19.0	9 8	22 59.77	- 1 22.7	1.870	2.875	1.6	17.8
9 18	22 50.83	-23 55.3	1.082	2.036	12.2	19.2	9 18	22 51.59	- 1 48.7	1.880	2.869	4.4	18.0
9 28	22 44.07	-23 45.0	1.137	2.043	16.1	19.5	9 28	22 44.36	- 2 14.0	1.918	2.863	8.2	18.2
10 8	22 40.20	-23 5.6	1.210	2.051	19.7	19.8	10 8	22 38.80	- 2 34.5	1.981	2.858	11.6	18.4
269447	2009 <i>SH</i> ₂₄₅	9 6.4 337°06	2°1/ 7.7 18				69636	1998 <i>FE</i> ₇₁	9 6.4 184°42	0°2/ 6.3 18			
7 30	23 24.96	- 2 6.8	1.214	2.067	20.0	20.4	7 30	23 29.67	- 4 32.3	1.705	2.534	16.2	19.8
8 9	23 22.46	- 1 40.4	1.136	2.056	16.1	20.1	8 9	23 25.14	- 4 51.3	1.626	2.534	12.8	19.5
8 19	23 16.91	- 1 30.8	1.076	2.045	11.4	19.8	8 19	23 18.16	- 5 23.8	1.568	2.534	8.6	19.3
8 29	23 8.89	- 1 36.8	1.036	2.035	6.1	19.5	8 29	23 9.32	- 6 6.0	1.533	2.534	4.0	19.0
9 8	22 59.50	- 1 54.5	1.019	2.025	2.1	19.2	9 8	22 59.53	- 6 52.3	1.526	2.533	0.8	18.8
9 18	22 50.17	- 2 17.9	1.026	2.017	6.5	19.5	9 18	22 49.91	- 7 36.3	1.545	2.531	5.6	19.1
9 28	22 42.42	- 2 39.8	1.055	2.010	11.9	19.8	9 28	22 41.57	- 8 12.2	1.591	2.529	10.1	19.4
10 8	22 37.40	- 2 53.7	1.105	2.004	16.8	20.0	10 8	22 35.38	- 8 35.6	1.661	2.527	14.0	19.6
238585	2004 <i>XQ</i> ₁₉₁	9 6.4 245°96	7°5/30.1 18				129042	2004 <i>VF</i> ₂	9 6.4 0°22	7°5/29.1 18			
7 30	23 30.43	-25 37.9	2.012	2.862	13.3	20.3	7 30	23 27.49	-28 29.0	2.236	3.084	12.2	19.3
8 9	23 25.58	-26 44.9	1.939	2.851	10.8	20.1	8 9	23 22.97	-29 33.2	2.178	3.084	10.1	19.2
8 19	23 18.36	-27 49.3	1.889	2.839	8.6	19.9	8 19	23 16.42	-30 31.9	2.142	3.084	8.3	19.1
8 29	23 9.35	-28 42.8	1.863	2.828	7.5	19.8	8 29	23 8.39	-31 18.1	2.132	3.084	7.5	19.0
9 8	22 59.45	-29 18.0	1.864	2.816	8.3	19.9	9 8	22 59.72	-31 45.8	2.147	3.084	8.3	19.1
9 18	22 49.73	-29 30.0	1.890	2.804	10.4	20.0	9 18	22 51.31	-31 51.3	2.187	3.084	10.0	19.2
9 28	22 41.26	-29 16.8	1.940	2.791	13.1	20.1	9 28	22 44.07	-31 33.8	2.252	3.084	12.1	19.3
10 8	22 34.87	-28 40.1	2.011	2.778	15.6	20.3	10 8	22 38.65	-30 55.0	2.336	3.084	14.2	19.5
108769	2001 <i>OG</i> ₅₁	9 6.4 105°06	2°0/ 4.7 17				33314	1998 <i>KX</i> ₆₀	9 6.4 241°74	4°7/31.8 18			
7 30	23 28.78	- 8 23.6	1.647	2.490	16.1	20.3	7 30	23 23.45	-17 36.7	2.244	3.097	12.0	18.2
8 9	23 24.31	- 9 6.0	1.585	2.504	12.4	20.1	8 9	23 19.81	-18 49.3	2.170	3.093	9.3	18.1
8 19	23 17.46	- 9 59.3	1.545	2.517	8.2	19.9	8 19	23 14.32	-20 5.5	2.120	3.088	6.6	17.9
8 29	23 8.88	-10 57.5	1.529	2.530	3.8	19.7	8 29	23 7.45	-21 18.5	2.096	3.083	4.8	17.8
9 8	22 59.55	-11 53.4	1.540	2.543	2.5	19.6	9 8	22 59.89	-22 21.9	2.100	3.079	5.4	17.8
9 18	22 50.56	-12 40.1	1.577	2.556	6.5	19.9	9 18	22 52.44	-23 10.0	2.131	3.074	7.8	17.9
9 28	22 42.98	-13 12.5	1.641	2.568	10.6	20.2	9 28	22 45.92	-23 39.3	2.188	3.069	10.6	18.1
10 8	22 37.56	-13 28.1	1.727	2.580	14.2	20.4	10 8	22 41.01	-23 48.9	2.266	3.064	13.1	18.3
179991	2002 <i>XO</i> ₇₈	9 6.4 333°25	3°0/ 8.4 18				353212	2009 <i>SB</i> ₃₅₆	9 6.4 271°77	0°2/ 6.1 15			
7 30	23 23.22	+ 0 10.6	1.470	2.305	18.1	19.4	7 30	23 16.87	- 5 46.7	4.489	5.299	7.2	21.4
8 9	23 20.67	+ 0 41.6	1.380	2.286	14.7	19.1	8 9	23 13.74	- 6 3.7	4.395	5.294	5.6	21.3
8 19	23 15.50	+ 0 56.8	1.308	2.268	10.7	18.8	8 19	23 9.77	- 6 25.3	4.325	5.289	3.7	21.1
8 29	23 8.20	+ 0 56.5	1.257	2.250	6.2	18.5	8 29	23 5.19	- 6 50.1	4.284	5.284	1.7	21.0
9 8	22 59.66	+ 0 43.0	1.230	2.234	3.0	18.3	9 8	23 0.32	- 7 16.0	4.272	5.278	0.4	20.9
9 18	22 51.05	+ 0 20.8	1.228	2.219	5.9	18.4	9 18	22 55.49	- 7 41.1	4.289	5.273	2.5	21.0
9 28	22 43.68	- 0 3.8	1.251	2.205	10.6	18.7	9 28	22 51.04	- 8 3.3	4.337	5.268	4.4	21.2
10 8	22 38.58	- 0 24.6	1.295	2.192	15.0	18.9	10 8	22 47.28	- 8 21.1	4.411	5.263	6.2	21.3
487049	2014 <i>OW</i> ₅₅	9 6.4 319°36	8°2/12.3 17				228160	2009 <i>SD</i> ₁₃₈	9 6.4 280°39	0°2/ 6.6 18			
7 30	23 31.22	+13 29.6	2.109	2.834	16.7	21.2	7 30	23 25.81	- 3 20.6	1.631	2.466	16.6	21.4
8 9	23 26.24	+15 3.2	2.007	2.820	14.6	21.0	8 9	23 22.46	- 3 40.3	1.537	2.448	13.2	21.1
8 19	23 18.95	+16 22.0	1.924	2.806	12.2	20.8	8 19	23 16.61	- 4 15.9	1.463	2.431	9.0	20.9
8 29	23 9.75	+17 21.7	1.863	2.793	9.9	20.6	8 29	23 8.71	- 5 4.5	1.412	2.412	4.3	20.5
9 8	22 59.38	+17 59.7	1.828	2.780	8.4	20.5	9 8	22 59.64	- 6 0.2	1.387	2.394	0.7	20.2
9 18	22 48.82	+18 15.5	1.820	2.768	8.5	20.5	9 18	22 50.51	- 6 56.1	1.388	2.376	5.8	20.6
9 28	22 39.15	+18 11.6	1.838	2.756	10.2	20.6	9 28	22 42.53	- 7 44.7	1.415	2.358	10.7	20.8
10 8	22 31.32	+17 53.7	1.879	2.744	12.7	20.7	10 8	22 36.69	- 8 20.3	1.465	2.339	15.0	21.0
155266	2005 <i>WP</i> ₁₀₅	9 6.4 235°27	0°1/ 6.5 18				60389	2000 <i>AO</i> ₂₂₀	9 6.4 279°88	2°0/ 7.9 18			
7 30	23 23.40	- 3 44.8	2.552	3.366	11.9	20.9	7 30	23 27.48	- 0 28.4	1.564	2.389	17.6	20.2
8 9	23 19.49	- 4 7.8	2.457	3.357	9.3	20.7	8 9	23 23.86	- 0 21.1	1.472	2.374	14.2	19.9
8 19	23 13.98	- 4 41.0	2.385	3.348	6.3	20.5	8 19	23 17.60	- 0 30.4	1.399	2.360	10.1	19.6
8 29	23 7.25	- 5 21.6	2.340	3.339	3.0	20.3	8 29	23 9.19	- 0 55.0	1.350	2.345	5.5	19.3
9 8	22 59.89	- 6 6.0	2.322	3.329	0.5	20.0	9 8	22 59.55	- 1 30.9	1.325	2.330	2.0	19.1
9 18	22 52.56	- 6 49.8	2.334	3.320	4.0	20.3	9 18	22 49.87	- 2 12.4	1.326	2.315	5.7	19.3
9 28	22 45.98	- 7 28.9	2.374	3.310	7.3	20.5	9 28	22 41.42	- 2 52.6	1.352	2.301	10.5	19.5
10 8	22 40.74	- 7 59.8	2.440	3.299	10.3	20.7	10 8	22 35.23	- 3 25.0	1.401	2.286	14.9	19.8
328081	2007 <i>XH</i> ₅₆	9 6.4 271°89	0°3/ 6.7 18				190262	2007 <i>LA</i> ₃₇	9 6.4				

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
280956	2006 <i>BF</i> ₂₂₄	9 6.5 49°88	1°8/ 7.9 18				517765	2015 <i>OD</i> ₇₇	9 6.5 26°65	2°5/ 8.5 18			
7 30	23 25.87	+ 0 1.3	1.553	2.380	17.6	20.3	7 30	23 26.84	+ 0 23.9	1.818	2.630	16.0	20.4
8 9	23 22.25	- 0 2.3	1.488	2.391	14.0	20.1	8 9	23 22.71	+ 0 48.2	1.744	2.636	12.9	20.2
8 19	23 16.21	- 0 23.5	1.441	2.401	9.8	19.8	8 19	23 16.41	+ 0 58.6	1.689	2.642	9.2	20.0
8 29	23 8.39	- 0 59.8	1.417	2.413	5.2	19.6	8 29	23 8.47	+ 0 56.1	1.658	2.649	5.3	19.7
9 8	22 59.75	- 1 45.8	1.418	2.424	1.8	19.4	9 8	22 59.76	+ 0 43.4	1.653	2.656	2.5	19.6
9 18	22 51.39	- 2 35.3	1.446	2.436	5.2	19.7	9 18	22 51.25	+ 0 24.4	1.675	2.664	4.9	19.8
9 28	22 44.40	- 3 21.3	1.499	2.448	9.6	20.0	9 28	22 43.90	+ 0 3.9	1.724	2.672	8.7	20.0
10 8	22 39.58	- 3 58.0	1.575	2.460	13.5	20.2	10 8	22 38.49	- 0 13.3	1.797	2.680	12.2	20.2
351053	2003 <i>SM</i> ₂₅₅	9 6.5 307°96	1°8/ 5.1 17				322066	2010 <i>VA</i> ₉₄	9 6.5 30°45	0°2/ 6.3 18			
7 30	23 26.36	- 8 41.3	1.604	2.454	16.1	21.1	7 30	23 22.65	- 4 10.8	2.016	2.846	14.0	21.0
8 9	23 23.18	- 9 0.0	1.496	2.418	12.7	20.8	8 9	23 19.26	- 4 38.5	1.941	2.850	10.9	20.8
8 19	23 17.33	- 9 30.3	1.408	2.381	8.7	20.5	8 19	23 13.98	- 5 18.2	1.887	2.855	7.4	20.6
8 29	23 9.17	- 10 8.2	1.343	2.345	4.1	20.2	8 29	23 7.31	- 6 6.4	1.859	2.859	3.4	20.4
9 8	22 59.56	- 10 47.3	1.304	2.309	2.3	20.0	9 8	22 59.98	- 6 58.0	1.857	2.864	0.7	20.2
9 18	22 49.64	- 11 20.7	1.290	2.272	7.1	20.2	9 18	22 52.81	- 7 47.4	1.883	2.869	4.8	20.5
9 28	22 40.78	- 11 41.7	1.301	2.236	12.1	20.3	9 28	22 46.63	- 8 29.4	1.936	2.875	8.5	20.7
10 8	22 34.15	- 11 46.2	1.334	2.201	16.7	20.5	10 8	22 42.10	- 9 0.3	2.013	2.880	11.8	20.9
186745	2004 <i>CG</i> ₅₆	9 6.5 134°64	0°3/ 6.2 17				399089	2014 <i>DT</i> ₂₈	9 6.5 134°50	3°1/ 3.7 18			
7 30	23 27.70	- 3 49.3	1.755	2.583	15.9	21.0	7 30	23 30.68	- 14 17.6	2.037	2.876	13.6	21.2
8 9	23 23.43	- 4 24.9	1.684	2.592	12.4	20.8	8 9	23 25.42	- 14 42.1	1.967	2.882	10.5	21.0
8 19	23 16.90	- 5 14.8	1.634	2.601	8.3	20.6	8 19	23 18.07	- 15 10.4	1.919	2.888	7.1	20.8
8 29	23 8.69	- 6 14.7	1.609	2.609	3.8	20.4	8 29	23 9.20	- 15 37.3	1.897	2.894	3.9	20.7
9 8	22 59.70	- 7 18.2	1.610	2.617	0.9	20.2	9 8	22 59.65	- 15 57.7	1.903	2.899	3.6	20.7
9 18	22 50.94	- 8 18.3	1.639	2.625	5.5	20.5	9 18	22 50.37	- 16 7.5	1.937	2.905	6.5	20.8
9 28	22 43.43	- 9 8.7	1.695	2.632	9.7	20.8	9 28	22 42.29	- 16 3.9	1.998	2.910	9.9	21.1
10 8	22 37.93	- 9 45.1	1.774	2.638	13.3	21.0	10 8	22 36.10	- 15 46.4	2.082	2.914	12.9	21.3
158152	2001 <i>HO</i> ₅₀	9 6.5 29°47	14°9/ 15.7 18				56463	2000 <i>GD</i> ₉₈	9 6.5 0°72	1°3/ 7.3 18			
7 30	23 36.07	- 54 5.4	2.106	2.873	15.5	19.0	7 30	23 26.90	- 3 27.7	1.268	2.119	19.4	18.1
8 9	23 30.79	- 55 48.5	2.097	2.881	15.0	18.9	8 9	23 23.73	- 3 7.3	1.198	2.117	15.5	17.9
8 19	23 22.16	- 57 7.2	2.107	2.889	15.0	19.0	8 19	23 17.61	- 3 2.3	1.146	2.116	10.7	17.6
8 29	23 11.13	- 57 53.2	2.135	2.898	15.3	19.0	8 29	23 9.20	- 3 10.4	1.116	2.115	5.4	17.3
9 8	22 59.27	- 58 1.6	2.180	2.907	15.9	19.1	9 8	22 59.63	- 3 27.0	1.109	2.116	1.4	17.0
9 18	22 48.23	- 57 32.1	2.241	2.916	16.7	19.2	9 18	22 50.30	- 3 46.3	1.127	2.118	6.2	17.4
9 28	22 39.46	- 56 27.9	2.316	2.926	17.6	19.3	9 28	22 42.60	- 4 1.9	1.168	2.120	11.4	17.7
10 8	22 33.79	- 54 55.4	2.404	2.936	18.3	19.4	10 8	22 37.54	- 4 8.7	1.230	2.123	15.9	18.0
145452	2005 <i>RN</i> ₄₃	9 6.5 353°81	0°2/ 9.4 18				348098	2003 <i>XN</i> ₃₆	9 6.5 319°84	8°3/ 12.6 18			
7 30	23 3.75	+ 1 36.5	39.839	40.609	0.9	19.9	7 30	23 24.33	+ 12 11.4	1.619	2.389	19.4	20.3
8 9	23 3.15	+ 1 33.0	39.742	40.609	0.8	19.9	8 9	23 21.47	+ 13 17.9	1.523	2.371	16.8	20.1
8 19	23 2.47	+ 1 28.8	39.670	40.609	0.5	19.8	8 19	23 16.07	+ 14 3.6	1.444	2.354	13.8	19.8
8 29	23 1.74	+ 1 23.9	39.625	40.609	0.3	19.8	8 29	23 8.55	+ 14 24.4	1.384	2.336	10.8	19.6
9 8	23 0.99	+ 1 18.6	39.609	40.609	0.2	19.8	9 8	22 59.73	+ 14 18.5	1.348	2.320	8.6	19.5
9 18	23 0.25	+ 1 12.9	39.622	40.609	0.3	19.8	9 18	22 50.73	+ 13 47.6	1.335	2.304	8.7	19.4
9 28	22 59.53	+ 1 7.2	39.664	40.609	0.5	19.8	9 28	22 42.84	+ 12 57.3	1.346	2.289	11.1	19.5
10 8	22 58.88	+ 1 1.4	39.734	40.608	0.7	19.9	10 8	22 37.11	+ 11 56.8	1.379	2.274	14.4	19.7
345036	2005 <i>EP</i> ₁₇₆	9 6.5 240°12	5°7/ 1.3 18				467750	2009 <i>SL</i> ₁₉₉	9 6.5 328°30	1°8/ 9.8 17			
7 30	23 37.32	- 24 0.1	2.406	3.232	12.1	21.8	7 30	23 16.40	+ 4 20.2	4.085	4.854	8.5	21.3
8 9	23 30.53	- 24 32.9	2.314	3.215	9.8	21.6	8 9	23 13.49	+ 4 10.3	3.987	4.850	6.9	21.1
8 19	23 21.53	- 25 2.9	2.246	3.197	7.4	21.4	8 19	23 9.67	+ 3 51.6	3.911	4.846	5.1	21.0
8 29	23 10.84	- 25 23.9	2.205	3.179	5.8	21.3	8 29	23 5.19	+ 3 24.9	3.862	4.843	3.2	20.9
9 8	22 59.30	- 25 30.4	2.193	3.159	6.2	21.3	9 8	23 0.38	+ 2 52.1	3.841	4.839	1.8	20.8
9 18	22 47.89	- 25 18.8	2.210	3.139	8.3	21.4	9 18	22 55.61	+ 2 15.2	3.849	4.835	2.6	20.8
9 28	22 37.61	- 24 47.9	2.254	3.119	11.0	21.5	9 28	22 51.24	+ 1 36.9	3.887	4.832	4.4	21.0
10 8	22 29.24	- 23 59.0	2.322	3.098	13.5	21.7	10 8	22 47.63	+ 0 59.8	3.953	4.829	6.3	21.1
187500	2006 <i>SX</i> ₃₅₂	9 6.5 280°23	1°3/ 7.4 18				514560	2017 <i>XP</i>	9 6.5 258°77	13°3/ 22.5 18			
7 30	23 27.25	- 1 33.4	1.570	2.399	17.4	21.2	7 30	23 41.55	- 41 50.1	1.913	2.724	15.4	21.8
8 9	23 23.77	- 1 36.5	1.472	2.378	14.0	20.9	8 9	23 35.24	- 43 33.6	1.847	2.699	14.1	21.7
8 19	23 17.62	- 1 56.2	1.393	2.357	9.8	20.6	8 19	23 25.48	- 45 3.5	1.801	2.674	13.4	21.6
8 29	23 9.26	- 2 30.9	1.338	2.335	5.1	20.3	8 29	23 12.94	- 46 7.2	1.777	2.648	13.5	21.5
9 8	22 59.57	- 3 15.9	1.307	2.314	1.3	20.0	9 8	22 58.95	- 46 35.1	1.776	2.622	14.6	21.6
9 18	22 49.73	- 4 4.9	1.302	2.292	5.8	20.2	9 18	22 45.19	- 46 22.0	1.795	2.594	16.2	21.6
9 28	22 41.07	- 4 50.3	1.323	2.270	10.9	20.5	9 28	22 33.35	- 45 29.0	1.834	2.566	18.1	21.7
10 8	22 34.67	- 5 25.6	1.366	2.248	15.4	20.7	10 8	22 24.63	- 44 1.8	1.888	2.537	20.0	21.8
425552	2010 <i>RH</i> ₁₁₅	9 6.5 345°02	3°6/ 9.2 17				34092	2000 <i>PF</i> ₁₁	9 6.5 167°89	6°1/ 31.2 18			
7 30	23 23.13	+ 3 54.6	1.262	2.095	20.6	21.3	7 30	23 27.50	- 19 37.6	1.896	2.752	13.7	18.7
8 9	23 20.86	+ 3 56.6	1.188	2.091	16.8	21.1	8 9	23 23.29	- 21 1.4	1.833	2.755	10.8	18.5
8 19	23 15.74	+ 3 33.3	1.130	2.087	12.3	20.8	8 19	23 16.82	- 22 27.4	1.792	2.757	7.9	18.3
8 29	23 8.35	+ 2 45.4	1.093	2.084	7.4	20.5	8 29	23 8.68	- 23 47.2	1.777	2.759	6.2	18.2
9 8	22 59.75	+ 1 38.0	1.079	2.082	3.6	20.3	9 8	22 59.75	- 24 52.5	1.789	2.760	6.9	18.3
9 18	22 51.27	+ 0 19.8	1.088	2.080	6.2	20.5	9 18	22 51.04	- 25 37.0	1.827	2.762	9.4	18.4
9 28	22 44.31	- 0 58.6	1.122	2.078	11.2	20.7	9 28	22 43.56	- 25 57.7	1.890	2.763	12.4	18.6
10 8	22 39.90	- 2 7.1	1.176	2.077	15.9	21.0	10 8	22 38.07	- 25 54.7	1.973	2.763	15.1	18.8
9658	Imabari	9 6.5 223°27	1°9/ 4.7 18				3						

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
34351	Decatur		9 6.5 278°37	0°0/ 6.3 18			41795	Wiens		9 6.5 178°92	0°5/ 7.1 18		
7 30	23 23.97	- 4 5.9	2.126	2.950	13.6	19.5	7 30	23 22.29	- 1 10.3	2.731	3.533	11.5	19.7
8 9	23 20.29	- 4 25.8	2.037	2.943	10.7	19.3	8 9	23 18.51	- 1 48.2	2.642	3.534	9.0	19.6
8 19	23 14.71	- 4 57.3	1.971	2.936	7.2	19.0	8 19	23 13.27	- 2 37.6	2.577	3.535	6.2	19.4
8 29	23 7.69	- 5 37.2	1.929	2.929	3.4	18.8	8 29	23 6.96	- 3 35.7	2.538	3.535	3.0	19.2
9 8	22 59.93	- 6 21.2	1.915	2.922	0.6	18.6	9 8	23 0.12	- 4 38.7	2.528	3.535	0.6	19.0
9 18	22 52.23	- 7 4.3	1.929	2.915	4.6	18.9	9 18	22 53.35	- 5 41.9	2.548	3.535	3.6	19.2
9 28	22 45.45	- 7 41.4	1.970	2.908	8.4	19.1	9 28	22 47.28	- 6 40.7	2.597	3.534	6.7	19.4
10 8	22 40.28	- 8 8.8	2.036	2.902	11.8	19.3	10 8	22 42.44	- 7 31.3	2.673	3.533	9.5	19.6
282240	2002 CW ₃₀₉		9 6.5 186°33	0°0/ 6.4 16			40257	1999 CZ ₅₆		9 6.5 212°93	0°8/ 5.8 18		
7 30	23 24.71	- 2 14.3	1.950	2.772	14.7	21.2	7 30	23 29.32	- 5 29.7	1.567	2.405	17.0	19.7
8 9	23 21.00	- 2 57.0	1.868	2.772	11.6	21.0	8 9	23 25.17	- 5 57.6	1.487	2.401	13.3	19.4
8 19	23 15.25	- 3 55.1	1.807	2.771	7.9	20.8	8 19	23 18.39	- 6 40.0	1.427	2.397	9.0	19.2
8 29	23 7.96	- 5 4.6	1.771	2.771	3.7	20.5	8 29	23 9.55	- 7 32.4	1.391	2.392	4.1	18.9
9 8	22 59.89	- 6 19.6	1.762	2.770	0.7	20.3	9 8	22 59.63	- 8 28.0	1.380	2.387	1.4	18.7
9 18	22 51.93	- 7 33.1	1.782	2.768	5.0	20.6	9 18	22 49.84	- 9 19.3	1.396	2.381	6.3	19.0
9 28	22 44.99	- 8 38.4	1.829	2.766	9.0	20.8	9 28	22 41.40	- 9 59.6	1.438	2.375	11.0	19.3
10 8	22 39.82	- 9 30.6	1.900	2.764	12.6	21.0	10 8	22 35.27	- 10 24.5	1.502	2.368	15.2	19.5
136744	1995 WP ₇		9 6.5 319°07	1°3/ 7.3 18			151492	2002 JS ₅₈		9 6.5 164°27	5°3/ 14.3 18		
7 30	23 22.07	- 1 58.4	1.234	2.091	19.5	19.8	7 30	23 22.98	+ 16 28.1	3.018	3.711	12.7	20.8
8 9	23 20.37	- 1 56.2	1.143	2.065	15.8	19.5	8 9	23 18.96	+ 16 38.2	2.924	3.716	11.0	20.7
8 19	23 15.71	- 2 13.7	1.070	2.041	11.1	19.2	8 19	23 13.53	+ 16 31.7	2.849	3.721	9.0	20.5
8 29	23 8.51	- 2 49.2	1.017	2.017	5.7	18.8	8 29	23 7.08	+ 16 7.6	2.797	3.725	7.1	20.4
9 8	22 59.75	- 3 37.4	0.987	1.994	1.4	18.5	9 8	23 0.10	+ 15 27.2	2.771	3.728	5.6	20.3
9 18	22 50.80	- 4 30.6	0.980	1.971	6.7	18.7	9 18	22 53.18	+ 14 32.8	2.774	3.732	5.4	20.3
9 28	22 43.22	- 5 19.0	0.995	1.950	12.5	19.0	9 28	22 46.92	+ 13 28.7	2.804	3.734	6.6	20.4
10 8	22 38.30	- 5 54.7	1.030	1.930	17.7	19.2	10 8	22 41.83	+ 12 19.8	2.862	3.737	8.5	20.5
362432	2010 RR ₄₇		9 6.5 166°75	1°7/ 4.8 18			481603	2007 TF ₃₃₇		9 6.5 328°27	1°0/ 5.6 18		
7 30	23 27.57	- 10 25.7	2.265	3.097	12.6	21.3	7 30	23 20.46	- 5 10.2	1.440	2.299	17.1	21.2
8 9	23 22.86	- 10 42.0	2.186	3.098	9.8	21.1	8 9	23 18.55	- 5 45.0	1.355	2.281	13.5	20.9
8 19	23 16.30	- 11 4.2	2.130	3.099	6.5	20.9	8 19	23 14.11	- 6 37.0	1.289	2.264	9.1	20.6
8 29	23 8.39	- 11 28.6	2.099	3.100	3.1	20.7	8 29	23 7.62	- 7 41.7	1.246	2.248	4.2	20.3
9 8	22 59.83	- 11 50.8	2.097	3.101	2.1	20.6	9 8	22 59.99	- 8 51.4	1.227	2.233	1.6	20.1
9 18	22 51.43	- 12 7.1	2.124	3.101	5.2	20.8	9 18	22 52.35	- 9 57.3	1.232	2.219	6.7	20.4
9 28	22 44.01	- 12 14.2	2.178	3.102	8.6	21.0	9 28	22 45.96	- 10 50.9	1.262	2.205	11.6	20.6
10 8	22 38.22	- 12 10.4	2.257	3.102	11.6	21.2	10 8	22 41.81	- 11 26.4	1.313	2.193	16.0	20.9
448689	2010 WN ₄₇		9 6.5 235°34	0°8/ 5.5 18			393541	2002 VL ₁₃		9 6.5 310°94	9°2/ 29.2 18		
7 30	23 23.38	- 6 48.8	2.588	3.411	11.5	22.3	7 30	23 28.95	- 27 42.3	1.701	2.561	14.8	20.4
8 9	23 19.47	- 7 18.5	2.496	3.403	8.9	22.1	8 9	23 25.01	- 28 53.1	1.627	2.542	12.3	20.2
8 19	23 13.99	- 7 56.6	2.427	3.395	5.9	21.9	8 19	23 18.35	- 29 59.7	1.575	2.524	10.1	20.0
8 29	23 7.31	- 8 39.9	2.385	3.386	2.7	21.7	8 29	23 9.55	- 30 52.2	1.546	2.506	9.2	20.0
9 8	23 0.02	- 9 24.3	2.372	3.377	1.2	21.6	9 8	22 59.65	- 31 21.6	1.541	2.488	10.1	20.0
9 18	22 52.78	- 10 5.5	2.387	3.368	4.4	21.8	9 18	22 49.92	- 31 22.2	1.560	2.470	12.4	20.1
9 28	22 46.29	- 10 39.5	2.431	3.359	7.6	22.0	9 28	22 41.64	- 30 52.3	1.601	2.453	15.3	20.2
10 8	22 41.11	- 11 3.6	2.500	3.350	10.4	22.2	10 8	22 35.77	- 29 54.6	1.660	2.436	18.0	20.4
97193	1999 WV ₁₆		9 6.5 312°71	0°5/ 6.9 18			496166	2010 XW ₁₈		9 6.5 339°13	3°1/ 12.1 16		
7 30	23 23.59	- 2 43.3	1.622	2.460	16.5	20.2	7 30	23 16.36	+ 10 9.9	3.744	4.482	9.8	20.8
8 9	23 20.66	- 3 0.0	1.535	2.447	13.1	19.9	8 9	23 13.61	+ 10 7.7	3.641	4.475	8.2	20.6
8 19	23 15.34	- 3 32.9	1.468	2.435	9.0	19.7	8 19	23 9.84	+ 9 54.0	3.560	4.469	6.4	20.5
8 29	23 8.12	- 4 18.8	1.424	2.424	4.4	19.4	8 29	23 5.33	+ 9 28.9	3.504	4.463	4.6	20.4
9 8	22 59.87	- 5 12.2	1.405	2.412	0.7	19.1	9 8	23 0.44	+ 8 53.9	3.475	4.457	3.3	20.3
9 18	22 51.64	- 6 6.4	1.412	2.401	5.6	19.4	9 18	22 55.58	+ 8 11.2	3.475	4.451	3.4	20.3
9 28	22 44.57	- 6 54.0	1.445	2.390	10.2	19.6	9 28	22 51.16	+ 7 23.7	3.503	4.446	4.9	20.4
10 8	22 39.58	- 7 29.4	1.500	2.380	14.4	19.9	10 8	22 47.57	+ 6 34.9	3.559	4.440	6.8	20.5
472068	2013 YQ ₈₃		9 6.5 292°14	2°7/ 8.6 18			340343	2006 DV ₅₇		9 6.5 193°40	0°5/ 7.0 18		
7 30	23 24.38	+ 2 21.0	1.601	2.419	17.6	22.0	7 30	23 25.34	- 1 26.4	2.126	2.938	14.0	22.1
8 9	23 21.49	+ 2 20.2	1.500	2.396	14.4	21.7	8 9	23 21.34	- 1 59.7	2.039	2.936	11.1	21.9
8 19	23 16.08	+ 1 59.5	1.418	2.373	10.5	21.4	8 19	23 15.43	- 2 47.3	1.974	2.934	7.6	21.7
8 29	23 8.56	+ 1 19.4	1.359	2.351	6.1	21.1	8 29	23 8.06	- 3 45.9	1.934	2.932	3.7	21.4
9 8	22 59.77	+ 0 23.7	1.324	2.328	2.7	20.8	9 8	22 59.95	- 4 50.8	1.922	2.929	0.6	21.2
9 18	22 50.82	- 0 41.4	1.315	2.305	5.6	21.0	9 18	22 51.92	- 5 55.9	1.938	2.926	4.5	21.5
9 28	22 42.96	- 1 47.5	1.331	2.283	10.4	21.2	9 28	22 44.83	- 6 55.3	1.983	2.922	8.3	21.7
10 8	22 37.23	- 2 46.5	1.370	2.260	14.8	21.4	10 8	22 39.38	- 7 44.2	2.052	2.917	11.7	21.9
396429	2014 EP ₄₁		9 6.5 18°49	1°9/ 4.7 18			221337	2005 WG ₁₃		9 6.5 104°40	0°4/ 6.9 18		
7 30	23 23.30	- 8 0.1	1.665	2.517	15.5	20.4	7 30	23 23.22	- 2 29.3	2.245	3.062	13.2	21.2
8 9	23 20.20	- 8 44.3	1.596	2.520	12.0	20.1	8 9	23 19.55	- 2 51.5	2.163	3.063	10.4	21.0
8 19	23 14.84	- 9 40.4	1.548	2.523	7.9	19.9	8 19	23 14.13	- 3 25.7	2.103	3.065	7.1	20.8
8 29	23 7.80	- 10 42.6	1.524	2.526	3.7	19.7	8 29	23 7.42	- 4 9.1	2.068	3.067	3.5	20.5
9 8	22 59.95	- 11 43.6	1.526	2.530	2.5	19.6	9 8	23 0.07	- 4 57.2	2.061	3.068	0.6	20.3
9 18	22 52.32	- 12 36.5	1.555	2.534	6.4	19.9	9 18	22 52.84	- 5 45.4	2.083	3.070	4.2	20.6
9 28	22 45.91	- 13 15.4	1.608	2.539	10.5	20.1	9 28	22 46.49	- 6 28.8	2.132	3.072	7.8	20.8
10 8	22 41.49	- 13 37.0	1.684	2.544	14.1	20.4	10 8	22 41.64	- 7 3.3	2.206	3.073	10.9	21.0
501757	2014 UB ₁₅₇		9 6.5 346°96	0°0/ 6.3 17			375181	2008 DS ₅₃		9 6.5 203°64	0°8/ 7.2 17		
7 30	23 24.22	- 4 3											

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
81174	2000 <i>EO</i> ₁₇₀		9 6.5 285°70	5°4/ 1.9	18 R		455651	2005 <i>AA</i> ₁₀		9 6.5 133°54	12°1/12.9	17	
7 30	23 26.64	-15 34.4	1.518	2.384	16.0	19.0	7 30	23 39.03	+14 19.0	1.277	2.033	24.3	20.8
8 9	23 23.25	-16 43.4	1.446	2.376	12.5	18.7	8 9	23 33.70	+16 30.3	1.205	2.037	21.3	20.6
8 19	23 17.18	-18 0.0	1.394	2.368	8.7	18.5	8 19	23 24.76	+18 18.6	1.149	2.042	17.9	20.4
8 29	23 9.02	-19 15.2	1.366	2.359	5.8	18.3	8 29	23 12.81	+19 35.0	1.112	2.046	14.6	20.2
9 8	22 59.78	-20 19.2	1.363	2.351	6.2	18.3	9 8	22 59.11	+20 13.5	1.096	2.050	12.4	20.1
9 18	22 50.69	-21 3.9	1.385	2.343	9.6	18.5	9 18	22 45.43	+20 13.5	1.103	2.053	12.5	20.1
9 28	22 43.01	-21 24.2	1.431	2.335	13.5	18.7	9 28	22 33.61	+19 41.3	1.133	2.057	14.6	20.3
10 8	22 37.71	-21 19.4	1.497	2.327	17.1	18.9	10 8	22 25.05	+18 49.0	1.183	2.060	17.7	20.5
277595	2006 <i>AQ</i> ₂₁		9 6.5 110°92	8°1/28.9	18		421452	2014 <i>MZ</i> ₆₁		9 6.5 64°83	8°5/14.9	18	
7 30	23 26.92	-23 57.9	1.755	2.617	14.3	20.3	7 30	23 31.94	+18 18.1	2.261	2.946	16.7	20.4
8 9	23 23.07	-25 43.5	1.703	2.624	11.5	20.2	8 9	23 26.43	+19 42.6	2.187	2.964	14.7	20.3
8 19	23 16.80	-27 27.6	1.674	2.630	9.1	20.0	8 19	23 18.84	+20 47.8	2.131	2.981	12.5	20.2
8 29	23 8.73	-28 59.7	1.670	2.636	8.1	20.0	8 29	23 9.67	+21 30.1	2.097	2.999	10.4	20.1
9 8	22 59.84	-30 10.6	1.692	2.642	9.1	20.1	9 8	22 59.71	+21 48.0	2.088	3.017	8.9	20.0
9 18	22 51.25	-30 54.1	1.738	2.647	11.4	20.2	9 18	22 49.86	+21 42.5	2.104	3.035	8.6	20.0
9 28	22 44.04	-31 8.2	1.806	2.653	14.1	20.4	9 28	22 41.06	+21 17.5	2.147	3.053	9.6	20.1
10 8	22 39.00	-30 54.7	1.894	2.658	16.5	20.6	10 8	22 34.06	+20 39.4	2.214	3.070	11.3	20.3
206429	2003 <i>SZ</i> ₁₇₄		9 6.5 262°88	1°4/ 5.2	18		7017	Uradowan		9 6.5 189°66	2°6/ 3.8	18	
7 30	23 27.76	- 8 15.5	2.066	2.897	13.7	21.1	7 30	23 26.60	- 9 25.6	1.872	2.714	14.5	18.2
8 9	23 23.46	- 8 40.3	1.966	2.877	10.7	20.8	8 9	23 22.61	-10 28.4	1.795	2.714	11.2	18.0
8 19	23 17.03	- 9 14.6	1.888	2.857	7.2	20.6	8 19	23 16.43	-11 42.2	1.740	2.713	7.4	17.8
8 29	23 8.89	- 9 54.5	1.835	2.836	3.4	20.3	8 29	23 8.59	-13 0.7	1.711	2.711	3.7	17.6
9 8	22 59.80	-10 34.7	1.810	2.815	1.8	20.2	9 8	22 59.91	-14 16.2	1.709	2.709	3.2	17.5
9 18	22 50.65	-11 10.1	1.814	2.794	5.6	20.4	9 18	22 51.36	-15 21.5	1.735	2.707	6.8	17.8
9 28	22 42.44	-11 35.8	1.844	2.772	9.6	20.6	9 28	22 43.94	-16 10.7	1.787	2.704	10.5	18.0
10 8	22 36.00	-11 48.5	1.898	2.749	13.2	20.8	10 8	22 38.42	-16 41.0	1.862	2.700	13.9	18.2
406296	2007 <i>FO</i> ₂₉		9 6.5 236°96	2°2/ 4.2	18		399272	2014 <i>HE</i> ₇₄		9 6.5 233°90	0°4/ 6.1	18	
7 30	23 25.96	-11 50.6	2.391	3.226	11.9	21.6	7 30	23 23.94	- 4 8.2	2.018	2.845	14.1	22.1
8 9	23 21.60	-12 16.9	2.307	3.221	9.2	21.4	8 9	23 20.38	- 4 44.0	1.933	2.842	11.0	21.9
8 19	23 15.47	-12 48.4	2.246	3.216	6.2	21.2	8 19	23 14.85	- 5 32.7	1.871	2.838	7.4	21.7
8 29	23 8.04	-13 21.2	2.212	3.211	3.1	21.0	8 29	23 7.83	- 6 30.7	1.834	2.834	3.4	21.4
9 8	22 59.97	-13 50.8	2.205	3.206	2.6	20.9	9 8	23 0.05	- 7 32.4	1.824	2.831	0.9	21.2
9 18	22 52.01	-14 13.1	2.228	3.200	5.4	21.1	9 18	22 52.36	- 8 31.7	1.842	2.827	5.0	21.5
9 28	22 44.92	-14 24.8	2.278	3.195	8.6	21.3	9 28	22 45.64	- 9 22.8	1.887	2.823	8.9	21.7
10 8	22 39.35	-14 24.4	2.352	3.189	11.4	21.5	10 8	22 40.61	-10 1.5	1.956	2.819	12.3	21.9
315981	2009 <i>CY</i> ₄₃		9 6.5 114°62	0°8/ 7.1	17		255376	2005 <i>WW</i> ₁₁₇		9 6.5 341°98	5°6/10.9	18 R	
7 30	23 32.98	- 2 56.9	1.544	2.368	17.8	21.0	7 30	23 20.77	+ 7 5.6	1.567	2.373	18.4	19.7
8 9	23 27.80	- 2 57.1	1.478	2.382	14.1	20.8	8 9	23 18.63	+ 7 46.0	1.478	2.358	15.5	19.5
8 19	23 19.98	- 3 11.9	1.432	2.395	9.7	20.6	8 19	23 14.09	+ 8 6.2	1.406	2.344	12.0	19.2
8 29	23 10.22	- 3 38.2	1.410	2.408	4.8	20.4	8 29	23 7.63	+ 8 4.5	1.356	2.332	8.4	19.0
9 8	22 59.60	- 4 10.9	1.414	2.421	1.0	20.1	9 8	23 0.07	+ 7 41.8	1.328	2.320	5.8	18.8
9 18	22 49.33	- 4 44.1	1.445	2.433	5.6	20.5	9 18	22 52.47	+ 7 2.0	1.325	2.310	6.6	18.8
9 28	22 40.62	- 5 11.9	1.502	2.444	10.2	20.8	9 28	22 46.01	+ 6 11.8	1.346	2.301	10.0	19.0
10 8	22 34.31	- 5 30.0	1.582	2.455	14.1	21.0	10 8	22 41.62	+ 5 19.6	1.390	2.293	13.8	19.2
471250	2011 <i>BC</i> ₀₃		9 6.5 137°01	0°1/ 6.6	17		275705	2000 <i>VU</i> ₁₄		9 6.5 344°78	11°9/27.5	18	
7 30	23 27.56	- 2 45.6	1.907	2.726	15.1	22.3	7 30	23 28.60	-31 6.8	1.380	2.251	17.0	19.2
8 9	23 23.17	- 3 19.5	1.834	2.736	11.8	22.1	8 9	23 25.27	-32 40.0	1.329	2.244	14.5	19.0
8 19	23 16.67	- 4 7.5	1.783	2.747	8.0	21.9	8 19	23 18.75	-34 4.2	1.297	2.238	12.6	18.9
8 29	23 8.64	- 5 5.8	1.757	2.756	3.8	21.7	8 29	23 9.79	-35 6.4	1.287	2.233	12.0	18.8
9 8	22 59.88	- 6 8.4	1.758	2.765	0.6	21.4	9 8	22 59.73	-35 36.0	1.298	2.228	13.0	18.9
9 18	22 51.34	- 7 9.1	1.788	2.774	5.0	21.8	9 18	22 50.10	-35 27.9	1.330	2.224	15.3	19.0
9 28	22 43.95	- 8 1.8	1.844	2.782	9.0	22.1	9 28	22 42.38	-34 42.3	1.381	2.221	17.9	19.2
10 8	22 38.42	- 8 42.2	1.926	2.789	12.4	22.3	10 8	22 37.54	-33 24.7	1.450	2.219	20.5	19.4
346659	2008 <i>YZ</i> ₇		9 6.5 352°10	5°3/ 9.1	18		353356	2010 <i>VZ</i> ₂₁₄		9 6.5 307°24	1°4/ 9.2	16	
7 30	23 23.37	+ 0 37.8	1.084	1.940	21.7	18.9	7 30	23 16.52	+ 2 50.1	4.141	4.916	8.3	21.2
8 9	23 21.56	+ 1 58.1	1.012	1.928	17.9	18.6	8 9	23 13.62	+ 2 37.5	4.040	4.910	6.7	21.1
8 19	23 16.55	+ 3 2.4	0.956	1.918	13.3	18.3	8 19	23 9.80	+ 2 16.7	3.963	4.904	4.8	21.0
8 29	23 8.91	+ 3 48.1	0.919	1.910	8.5	18.0	8 29	23 5.33	+ 1 48.6	3.913	4.898	2.9	20.8
9 8	22 59.81	+ 4 15.0	0.904	1.904	5.3	17.8	9 8	23 0.53	+ 1 15.1	3.891	4.892	1.5	20.7
9 18	22 50.77	+ 4 25.6	0.910	1.900	7.6	17.9	9 18	22 55.76	+ 0 38.3	3.899	4.886	2.4	20.8
9 28	22 43.44	+ 4 25.5	0.938	1.899	12.3	18.2	9 28	22 51.39	+ 0 0.9	3.936	4.880	4.4	20.9
10 8	22 39.04	+ 4 22.3	0.986	1.899	17.0	18.5	10 8	22 47.75	- 0 34.7	4.001	4.875	6.3	21.0
213844	2003 <i>SU</i> ₂₇		9 6.5 356°81	1°1/ 7.1	17		64603	2001 <i>XC</i> ₂₂		9 6.5 331°69	6°6/ 2.6	18	
7 30	23 26.92	- 3 54.7	1.134	1.994	20.6	19.4	7 30	23 26.93	-16 52.2	1.067	1.955	19.6	18.4
8 9	23 24.11	- 3 34.7	1.067	1.991	16.4	19.1	8 9	23 24.57	-17 36.0	1.000	1.942	15.5	18.1
8 19	23 18.10	- 3 31.0	1.016	1.988	11.4	18.8	8 19	23 18.68	-18 26.0	0.951	1.930	10.9	17.8
8 29	23 9.55	- 3 41.3	0.987	1.987	5.7	18.5	8 29	23 9.94	-19 12.1	0.922	1.918	7.2	17.6
9 8	22 59.71	- 4 0.2	0.979	1.986	1.2	18.2	9 8	22 59.70	-19 42.6	0.915	1.908	7.4	17.5
9 18	22 50.10	- 4 21.2	0.995	1.987	6.7	18.6	9 18	22 49.66	-19 48.7	0.929	1.898	11.5	17.7
9 28	22 42.29	- 4 37.3	1.034	1.988	12.3	18.9	9 28	22 41.61	-19 26.2	0.964	1.890	16.3	18.0
10 8	22 37.38	- 4 42.9	1.093	1.990	17.1	19.2	10 8	22 36.75	-18 36.3	1.017	1.883	20.8	18.2
43152	1999 <i>XM</i> ₁₁₅		9 6.5 134°85	3°2/10.7	18 R		384686	2011 <i>GS</i> ₃₅		9 6			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
358413	2007 CS ₁₃		9 6.5 100°59	0°3/ 6.8 18			476076	2007 TK ₂₅		9 6.5 283°98	3°9/ 3.5 18		
7 30	23 25.33	- 3 39.9	2.356	3.170	12.8	21.3	7 30	23 31.19	-15 55.0	1.865	2.711	14.3	21.1
8 9	23 21.02	- 3 54.2	2.282	3.181	10.0	21.2	8 9	23 26.37	-16 16.8	1.776	2.695	11.3	20.9
8 19	23 15.03	- 4 18.6	2.231	3.193	6.8	21.0	8 19	23 19.12	-16 41.8	1.709	2.678	7.8	20.7
8 29	23 7.84	- 4 50.2	2.205	3.204	3.2	20.8	8 29	23 9.95	-17 4.5	1.666	2.661	4.6	20.4
9 8	23 0.10	- 5 25.2	2.208	3.215	0.5	20.6	9 8	22 59.76	-17 18.7	1.650	2.645	4.4	20.4
9 18	22 52.54	- 5 59.7	2.240	3.227	4.1	20.9	9 18	22 49.65	-17 19.7	1.662	2.628	7.6	20.5
9 28	22 45.89	- 6 29.4	2.300	3.237	7.4	21.1	9 28	22 40.74	-17 4.6	1.699	2.611	11.3	20.7
10 8	22 40.72	- 6 51.4	2.385	3.248	10.4	21.3	10 8	22 33.92	-16 32.9	1.760	2.595	14.8	20.9
227341	2005 US ₅₃		9 6.5 270°17	2°6/ 4.2 18			291551	2006 EA ₇₂		9 6.5 105°27	1°8/ 8.0 17		
7 30	23 26.52	- 9 45.1	1.697	2.546	15.4	20.5	7 30	23 27.70	+ 2 0.1	1.453	2.273	18.9	21.4
8 9	23 22.94	-10 30.7	1.610	2.531	12.0	20.3	8 9	23 23.89	+ 1 29.3	1.388	2.287	15.1	21.1
8 19	23 16.92	-11 27.7	1.543	2.517	8.0	20.0	8 19	23 17.49	+ 0 36.1	1.342	2.301	10.6	20.9
8 29	23 8.94	-12 30.3	1.501	2.502	4.0	19.7	8 29	23 9.15	- 0 35.8	1.318	2.314	5.6	20.7
9 8	22 59.90	-13 31.2	1.485	2.486	3.2	19.7	9 8	22 59.92	- 1 59.3	1.320	2.326	1.8	20.5
9 18	22 50.86	-14 22.6	1.495	2.471	7.2	19.9	9 18	22 51.00	- 3 25.2	1.349	2.339	5.5	20.7
9 28	22 42.99	-15 58.4	1.531	2.456	11.4	20.1	9 28	22 43.58	- 4 44.1	1.403	2.351	10.2	21.0
10 8	22 37.23	-15 15.4	1.589	2.440	15.3	20.3	10 8	22 38.50	- 5 48.8	1.480	2.363	14.4	21.3
46373	2001 VA ₁₂₃		9 6.5 4°55	10°1/29.9 18			258381	2001 XG ₄₀		9 6.5 281°17	5°4/ 1.2 18		
7 30	23 32.83	-28 48.1	1.492	2.353	16.5	18.5	7 30	23 27.75	-20 23.6	2.077	2.928	12.9	20.3
8 9	23 28.16	-29 56.4	1.439	2.353	13.7	18.3	8 9	23 23.39	-21 12.1	2.000	2.919	10.2	20.1
8 19	23 20.46	-30 57.2	1.406	2.353	11.3	18.2	8 19	23 16.91	-22 1.2	1.947	2.910	7.4	19.9
8 29	23 10.53	-31 39.4	1.395	2.353	10.1	18.1	8 29	23 8.84	-22 44.4	1.918	2.902	5.6	19.8
9 8	22 59.65	-31 54.2	1.408	2.354	10.9	18.2	9 8	22 59.99	-23 15.3	1.917	2.893	6.1	19.8
9 18	22 49.27	-31 37.1	1.444	2.355	13.2	18.3	9 18	22 51.29	-23 29.3	1.942	2.885	8.4	19.9
9 28	22 40.77	-30 48.7	1.501	2.357	15.9	18.5	9 28	22 43.69	-23 23.7	1.993	2.876	11.3	20.1
10 8	22 35.04	-29 33.7	1.578	2.359	18.6	18.7	10 8	22 37.95	-22 58.9	2.065	2.868	14.0	20.3
275683	2000 SV ₅₄		9 6.5 13°27	3°1/ 9.0 17			104389	2000 FP ₃₈		9 6.5 289°45	0°0/ 6.6 18		
7 30	23 13.45	+ 4 54.7	0.867	1.740	24.4	19.3	7 30	23 22.62	- 2 26.9	1.902	2.730	14.8	19.5
8 9	23 14.06	+ 4 26.0	0.816	1.744	19.7	19.1	8 9	23 19.54	- 3 4.9	1.815	2.722	11.7	19.3
8 19	23 11.51	+ 3 19.9	0.781	1.750	14.2	18.8	8 19	23 14.42	- 3 58.4	1.749	2.714	8.0	19.0
8 29	23 6.51	+ 1 40.1	0.762	1.759	8.1	18.5	8 29	23 7.71	- 5 3.8	1.707	2.707	3.8	18.8
9 8	23 0.35	- 0 21.9	0.764	1.770	3.2	18.3	9 8	23 0.18	- 6 15.3	1.692	2.699	0.6	18.5
9 18	22 54.54	- 2 29.8	0.787	1.782	6.7	18.5	9 18	22 52.69	- 7 26.0	1.705	2.692	5.0	18.8
9 28	22 50.58	- 4 26.6	0.830	1.796	12.5	18.9	9 28	22 46.19	- 8 29.1	1.744	2.684	9.2	19.1
10 8	22 49.43	- 5 59.3	0.893	1.812	17.7	19.3	10 8	22 41.44	- 9 19.2	1.807	2.677	12.8	19.3
315007	2007 BE ₈		9 6.5 296°41	3°5/ 9.7 17			93152	2000 ST ₈₃		9 6.5 203°52	0°6/ 5.9 18 R		
7 30	23 25.01	+ 4 16.0	2.069	2.859	15.1	21.2	7 30	23 26.79	- 5 13.3	2.063	2.887	14.0	19.8
8 9	23 21.29	+ 4 35.5	1.972	2.847	12.4	21.0	8 9	23 22.58	- 5 46.2	1.977	2.884	10.9	19.6
8 19	23 15.55	+ 4 39.9	1.895	2.836	9.3	20.8	8 19	23 16.35	- 6 30.8	1.913	2.880	7.3	19.3
8 29	23 8.23	+ 4 29.1	1.842	2.824	5.9	20.5	8 29	23 8.58	- 7 23.4	1.875	2.875	3.4	19.1
9 8	23 0.05	+ 4 5.2	1.815	2.813	3.5	20.4	9 8	23 0.03	- 8 18.6	1.864	2.870	1.1	18.9
9 18	22 51.84	+ 3 31.6	1.815	2.802	4.9	20.4	9 18	22 51.56	- 9 10.7	1.882	2.865	5.1	19.2
9 28	22 44.53	+ 2 53.4	1.843	2.790	8.2	20.6	9 28	22 44.07	- 9 54.3	1.927	2.859	9.0	19.4
10 8	22 38.90	+ 2 16.2	1.895	2.779	11.6	20.8	10 8	22 38.31	-10 25.6	1.996	2.853	12.4	19.6
127350	2002 JB ₁₂₂		9 6.5 52°79	0°0/ 6.5 18			117815	2005 HM ₅		9 6.5 113°73	0°0/ 6.4 18		
7 30	23 20.49	- 1 1.8	2.228	3.045	13.3	19.6	7 30	23 27.59	- 2 43.7	1.601	2.432	17.0	20.2
8 9	23 17.51	- 2 2.7	2.145	3.046	10.4	19.4	8 9	23 23.60	- 3 22.0	1.534	2.443	13.3	19.9
8 19	23 12.82	- 3 18.9	2.084	3.048	7.1	19.2	8 19	23 17.19	- 4 17.0	1.487	2.454	9.0	19.7
8 29	23 6.88	- 4 46.4	2.050	3.049	3.3	19.0	8 29	23 9.00	- 5 23.9	1.464	2.465	4.2	19.5
9 8	23 0.30	- 6 19.2	2.044	3.051	0.6	18.8	9 8	22 59.98	- 6 35.7	1.468	2.475	0.8	19.2
9 18	22 53.82	- 7 50.5	2.066	3.052	4.4	19.1	9 18	22 51.23	- 7 44.4	1.498	2.485	5.6	19.6
9 28	22 48.18	- 9 13.7	2.117	3.054	8.0	19.3	9 28	22 43.83	- 8 42.7	1.555	2.495	10.1	19.9
10 8	22 43.98	-10 23.6	2.193	3.055	11.2	19.5	10 8	22 38.60	- 9 25.7	1.634	2.504	14.0	20.2
490043	2008 TK ₄₁		9 6.5 354°55	1°3/ 5.9 18			377619	2005 SE ₁₁₅		9 6.5 152°19	0°9/ 7.3 17		
7 30	23 31.22	-10 58.1	1.218	2.083	19.2	20.5	7 30	23 27.15	- 0 53.8	1.862	2.676	15.6	21.9
8 9	23 27.33	-10 24.5	1.148	2.077	15.1	20.2	8 9	23 22.99	- 1 18.6	1.784	2.682	12.4	21.7
8 19	23 20.20	- 9 56.6	1.096	2.072	10.3	19.9	8 19	23 16.67	- 1 59.1	1.727	2.687	8.5	21.5
8 29	23 10.55	- 9 30.8	1.066	2.068	4.8	19.6	8 29	23 8.74	- 2 52.2	1.695	2.692	4.3	21.3
9 8	22 59.65	- 9 2.8	1.059	2.066	1.8	19.4	9 8	23 0.02	- 3 52.5	1.690	2.697	0.9	21.0
9 18	22 49.04	- 8 29.3	1.077	2.065	7.2	19.8	9 18	22 51.46	- 4 53.7	1.713	2.701	4.8	21.3
9 28	22 40.28	- 7 47.9	1.119	2.065	12.5	20.1	9 28	22 44.04	- 5 49.2	1.762	2.704	9.0	21.6
10 8	22 34.44	- 6 57.6	1.181	2.067	17.0	20.3	10 8	22 38.51	- 6 34.1	1.836	2.708	12.6	21.8
52502	1996 EZ ₄		9 6.5 190°29	0°3/ 6.3 18			29717	1999 AC ₈		9 6.5 155°23	2°6/ 4.6 18		
7 30	23 28.64	- 4 36.8	1.915	2.738	14.9	20.0	7 30	23 32.36	-10 18.2	1.577	2.421	16.6	19.0
8 9	23 24.14	- 5 0.8	1.832	2.737	11.7	19.8	8 9	23 27.43	-10 52.4	1.508	2.426	12.9	18.8
8 19	23 17.46	- 5 37.2	1.771	2.736	7.9	19.6	8 19	23 19.85	-11 36.2	1.460	2.431	8.6	18.5
8 29	23 9.10	- 6 22.3	1.734	2.734	3.7	19.3	8 29	23 10.27	-12 23.5	1.435	2.436	4.2	18.3
9 8	22 59.91	- 7 11.0	1.725	2.732	0.8	19.1	9 8	22 59.76	-13 6.7	1.438	2.440	3.1	18.2
9 18	22 50.83	- 7 57.4	1.744	2.729	5.2	19.4	9 18	22 49.54	-13 39.5	1.467	2.444	7.2	18.5
9 28	22 42.86	- 8 36.0	1.790	2.726	9.3	19.7	9 28	22 40.82	-13 56.9	1.521	2.447	11.5	18.8
10 8	22 36.79	- 9 2.9	1.861	2.722	12.9	19.9	10 8	22 34.48	-13 57.1	1.598	2.449	15.2	19.0
472109	2014 AS ₅₂		9 6.5 326°55	7°5/29.8 18			85357	1995 WW ₉		9 6.5 281°41	5°1/ 2.7 18		
7 30	23 20.33	-16 52.7	1										

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
217185	2002 RZ ₂₂₅		9 6.5 42°15'	4.6/10.2	18		375729	2009 QT ₅₆		9 6.5 308°72'	1.3/5.8	18	
7 30	23 24.66	+ 6 21.6	1.307	2.124	20.8	19.6	7 30	23 32.88	- 9 42.4	1.401	2.250	18.0	20.0
8 9	23 21.85	+ 6 31.0	1.244	2.134	17.1	19.4	8 9	23 28.46	- 9 26.3	1.316	2.237	14.2	19.8
8 19	23 16.30	+ 6 14.2	1.198	2.145	12.8	19.2	8 19	23 20.96	- 9 17.8	1.251	2.223	9.7	19.5
8 29	23 8.66	+ 5 31.8	1.172	2.156	8.2	19.0	8 29	23 10.98	- 9 13.0	1.209	2.210	4.5	19.1
9 8	23 0.04	+ 4 28.6	1.168	2.167	4.8	18.8	9 8	22 59.64	- 9 7.1	1.191	2.197	1.8	18.9
9 18	22 51.71	+ 3 12.5	1.190	2.179	6.3	19.0	9 18	22 48.35	- 8 55.5	1.199	2.185	6.9	19.2
9 28	22 44.93	+ 1 53.9	1.235	2.191	10.5	19.2	9 28	22 38.64	- 8 34.4	1.232	2.173	12.1	19.5
10 8	22 40.61	+ 0 42.5	1.303	2.204	14.6	19.5	10 8	22 31.62	- 8 2.0	1.287	2.161	16.7	19.7
295108	2008 EP ₁₆₇		9 6.5 75°91'	0.2/6.7	17		171160	2005 GN ₁₁₂		9 6.5 326°18'	0.1/6.4	18	
7 30	23 27.65	- 2 31.6	1.471	2.307	18.0	21.1	7 30	23 26.57	- 5 18.0	1.771	2.605	15.5	20.3
8 9	23 23.76	- 3 0.6	1.412	2.324	14.1	20.9	8 9	23 22.75	- 5 23.7	1.689	2.600	12.2	20.0
8 19	23 17.33	- 3 46.7	1.373	2.340	9.5	20.7	8 19	23 16.64	- 5 40.9	1.628	2.595	8.3	19.8
8 29	23 9.06	- 4 45.3	1.356	2.356	4.5	20.4	8 29	23 8.79	- 6 6.6	1.590	2.591	3.9	19.5
9 8	22 59.98	- 5 49.3	1.365	2.373	0.7	20.2	9 8	23 0.04	- 6 35.9	1.579	2.587	0.7	19.3
9 18	22 51.28	- 6 50.6	1.401	2.389	5.7	20.6	9 18	22 51.41	- 7 3.7	1.595	2.582	5.3	19.6
9 28	22 44.08	- 7 42.1	1.461	2.405	10.3	20.9	9 28	22 43.94	- 7 24.9	1.637	2.579	9.6	19.9
10 8	22 39.17	- 8 18.9	1.545	2.421	14.3	21.2	10 8	22 38.44	- 7 35.9	1.703	2.575	13.4	20.1
99823	2002 ME ₂		9 6.5 311°50'	7.0/14.2	18		283667	2002 PH ₁₁₃		9 6.5 335°55'	9.5/8.9	17	
7 30	23 23.96	+16 1.3	2.365	3.078	15.4	19.1	7 30	23 36.82	+ 4 34.2	1.330	2.131	21.3	19.5
8 9	23 20.30	+16 47.1	2.268	3.072	13.4	18.9	8 9	23 32.25	+ 7 7.1	1.231	2.106	18.3	19.2
8 19	23 14.80	+17 14.5	2.189	3.065	11.2	18.7	8 19	23 24.12	+ 9 35.1	1.151	2.081	14.8	18.9
8 29	23 7.88	+17 21.1	2.132	3.059	9.0	18.6	8 29	23 12.79	+11 50.9	1.093	2.058	11.4	18.7
9 8	23 0.17	+17 6.8	2.099	3.053	7.4	18.5	9 8	22 59.28	+13 46.9	1.060	2.037	9.5	18.5
9 18	22 52.43	+16 33.2	2.093	3.047	7.2	18.4	9 18	22 45.18	+15 16.6	1.051	2.017	10.9	18.5
9 28	22 45.48	+15 44.6	2.112	3.041	8.5	18.5	9 28	22 32.45	+16 19.0	1.066	1.999	14.4	18.7
10 8	22 40.03	+14 47.1	2.157	3.035	10.7	18.7	10 8	22 22.70	+16 59.0	1.102	1.982	18.4	18.8
315001	2007 AD ₂₅		9 6.5 225°14'	4.8/12.3	18		408501	2013 JO ₂₄		9 6.5 126°26'	1.8/4.3	18	
7 30	23 24.86	+11 39.2	2.690	3.420	13.4	22.0	7 30	23 24.35	-10 15.1	2.558	3.390	11.4	22.1
8 9	23 20.71	+11 58.7	2.586	3.412	11.4	21.8	8 9	23 20.19	-10 53.9	2.486	3.399	8.7	21.9
8 19	23 14.93	+12 2.6	2.501	3.402	9.1	21.7	8 19	23 14.46	-11 38.7	2.438	3.408	5.8	21.8
8 29	23 7.90	+11 50.0	2.440	3.392	6.7	21.5	8 29	23 7.62	-12 25.6	2.416	3.416	2.8	21.6
9 8	23 0.17	+11 21.8	2.406	3.382	5.0	21.4	9 8	23 0.27	-13 9.9	2.424	3.425	2.2	21.6
9 18	22 52.42	+10 40.4	2.400	3.372	5.2	21.4	9 18	22 53.08	-13 47.7	2.460	3.433	4.9	21.7
9 28	22 45.36	+ 9 50.0	2.423	3.361	7.1	21.5	9 28	22 46.72	-14 15.4	2.524	3.441	7.8	22.0
10 8	22 39.61	+ 8 55.8	2.472	3.349	9.5	21.6	10 8	22 41.73	-14 31.2	2.613	3.449	10.5	22.1
92088	1999 XW ₂₃		9 6.5 305°08'	4.4/11.3	18		141557	2002 GY ₆₉		9 6.5 92°79'	1.3/4.6	18 R	
7 30	23 21.96	+ 8 53.4	2.181	2.949	15.0	18.7	7 30	23 20.63	- 9 26.0	3.190	4.017	9.4	20.3
8 9	23 18.81	+ 9 1.3	2.085	2.941	12.6	18.5	8 9	23 17.01	- 9 59.7	3.117	4.027	7.2	20.1
8 19	23 13.83	+ 8 50.8	2.008	2.932	9.8	18.3	8 19	23 12.19	-10 38.4	3.068	4.037	4.8	20.0
8 29	23 7.42	+ 8 21.8	1.954	2.924	6.8	18.1	8 29	23 6.52	-11 19.2	3.046	4.046	2.3	19.8
9 8	23 0.25	+ 7 36.2	1.926	2.916	4.6	17.9	9 8	23 0.47	-11 58.8	3.053	4.056	1.6	19.8
9 18	22 53.09	+ 6 37.9	1.925	2.908	5.1	18.0	9 18	22 54.53	-12 33.8	3.090	4.066	3.9	20.0
9 28	22 46.76	+ 5 32.9	1.952	2.900	7.8	18.1	9 28	22 49.20	-13 1.6	3.156	4.075	6.4	20.1
10 8	22 41.96	+ 4 27.7	2.003	2.892	10.9	18.3	10 8	22 44.93	-13 20.3	3.247	4.085	8.6	20.3
203918	2003 OR ₇		9 6.5 349°60'	8.7/12.6	18		9256	Tsukamoto		9 6.5 58°45'	2.4/4.9	18	
7 30	23 22.97	+10 55.8	1.341	2.137	21.4	19.2	7 30	23 30.25	- 9 49.7	1.334	2.192	18.3	17.1
8 9	23 20.79	+12 12.8	1.262	2.129	18.5	19.0	8 9	23 26.05	-10 15.6	1.279	2.205	14.1	16.9
8 19	23 15.83	+13 6.4	1.199	2.121	15.0	18.8	8 19	23 19.00	-10 52.0	1.243	2.218	9.4	16.6
8 29	23 8.58	+13 31.8	1.155	2.115	11.5	18.5	8 29	23 9.88	-11 32.4	1.231	2.232	4.5	16.4
9 8	23 0.04	+13 27.7	1.133	2.110	9.1	18.4	9 8	22 59.89	-12 9.0	1.242	2.246	3.0	16.3
9 18	22 51.49	+12 56.6	1.132	2.106	9.2	18.4	9 18	22 50.38	-12 35.1	1.280	2.260	7.4	16.6
9 28	22 44.31	+12 5.7	1.154	2.104	11.8	18.5	9 28	22 42.60	-12 45.9	1.341	2.275	11.9	16.9
10 8	22 39.63	+11 5.4	1.198	2.103	15.3	18.8	10 8	22 37.42	-12 39.7	1.424	2.289	15.9	17.2
308110	2004 XF ₄		9 6.5 214°72'	13.6/20.3	16		3272	Tillandz		9 6.5 241°02'	2.7/4.3	18 R	
7 30	23 25.33	+27 44.5	1.414	2.098	25.2	20.7	7 30	23 27.97	- 9 7.5	1.529	2.381	16.7	17.0
8 9	23 22.85	+28 32.3	1.330	2.094	23.0	20.5	8 9	23 24.29	- 9 58.1	1.450	2.373	13.0	16.7
8 19	23 17.35	+28 41.6	1.257	2.090	20.4	20.3	8 19	23 17.95	-11 1.8	1.391	2.365	8.7	16.5
8 29	23 9.35	+28 4.2	1.199	2.085	17.6	20.1	8 29	23 9.50	-12 12.1	1.356	2.357	4.3	16.2
9 8	22 59.90	+26 35.8	1.158	2.080	15.0	19.9	9 8	22 59.93	-13 20.5	1.346	2.348	3.3	16.1
9 18	22 50.42	+24 18.7	1.138	2.075	13.6	19.9	9 18	22 50.45	-14 18.2	1.363	2.340	7.6	16.4
9 28	22 42.45	+21 23.9	1.142	2.069	14.2	19.9	9 28	22 42.33	-14 58.6	1.404	2.331	12.1	16.6
10 8	22 37.20	+18 9.5	1.167	2.063	16.4	20.0	10 8	22 36.54	-15 18.3	1.467	2.321	16.2	16.8
174747	2003 UE ₂₅₃		9 6.5 358°19'	2.6/4.9	18		439583	2014 DP ₁₁₀		9 6.5 57°68'	3.3/9.2	18	
7 30	23 18.55	- 8 54.4	0.894	1.794	21.4	18.5	7 30	23 28.02	+ 2 46.7	1.756	2.558	16.9	20.9
8 9	23 18.19	- 9 15.4	0.838	1.787	16.7	18.2	8 9	23 23.75	+ 3 9.7	1.685	2.569	13.7	20.7
8 19	23 14.43	- 9 52.8	0.798	1.783	11.2	17.9	8 19	23 17.22	+ 3 16.1	1.634	2.581	10.0	20.5
8 29	23 7.97	-10 39.1	0.777	1.781	5.3	17.5	8 29	23 9.02	+ 3 6.8	1.606	2.592	6.1	20.3
9 8	23 0.17	-11 24.0	0.775	1.780	3.3	17.4	9 8	23 0.04	+ 2 44.6	1.604	2.604	3.3	20.1
9 18	22 52.68	-11 57.1	0.795	1.782	8.9	17.8	9 18	22 51.30	+ 2 13.9	1.629	2.616	5.1	20.3
9 28	22 47.17	-12 10.4	0.833	1.786	14.6	18.1	9 28	22 43.79	+ 1 40.4	1.680	2.628	8.8	20.5
10 8	22 44.73	-12 0.6	0.890	1.792	19.6	18.4	10 8	22 38.30	+ 1 9.8	1.755	2.641	12.3	20.8
156977	2003 JV ₁₀		9 6.5 27°39'	3.6/9.3	18		192627	1999 KS		9 6.5 30°39'	0.5/6.1	16	
7 30	23 23.35	+ 3 14.0	1.233	2.070	20.7	19.0	7 30						

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
399903	2005 <i>WH</i> ₁₈₅	9 6.5 241°20	20°5/14.7 17				400146	2006 <i>UZ</i> ₂₅₁	9 6.5 251°32	0°2/ 6.4 18			
7 30	23 34.69	-44 4.7	1.080	1.936	21.7	20.0	7 30	23 24.85	-4 32.9	2.084	2.909	13.8	21.8
8 9	23 32.12	-47 33.7	1.058	1.933	20.7	19.9	8 9	23 21.05	-4 55.1	2.000	2.906	10.8	21.6
8 19	23 24.60	-50 34.5	1.054	1.929	20.6	19.9	8 19	23 15.33	-5 28.7	1.937	2.903	7.3	21.4
8 29	23 12.98	-52 46.5	1.068	1.925	21.5	19.9	8 29	23 8.15	-6 10.5	1.900	2.900	3.4	21.1
9 8	22 59.35	-53 56.1	1.096	1.920	23.0	20.0	9 8	23 0.24	-6 55.8	1.889	2.896	0.7	20.9
9 18	22 46.44	-54 0.1	1.139	1.916	24.9	20.1	9 18	22 52.41	-7 39.4	1.907	2.893	4.7	21.2
9 28	22 36.77	-53 4.6	1.192	1.911	26.7	20.3	9 28	22 45.54	-8 16.3	1.952	2.889	8.5	21.4
10 8	22 31.68	-51 21.4	1.255	1.907	28.3	20.4	10 8	22 40.32	-8 42.7	2.021	2.886	11.9	21.7
4011	Bakharev	9 6.5 264°56	0°8/ 5.9 18				360290	2001 <i>DC</i> ₄₉	9 6.5 117°66	4°7/30.9 18			
7 30	23 28.06	-5 16.4	1.380	2.228	18.3	17.7	7 30	23 24.54	-20 41.1	2.779	3.623	10.2	21.0
8 9	23 24.60	-5 41.4	1.303	2.222	14.4	17.4	8 9	23 20.26	-21 57.1	2.726	3.640	8.0	20.8
8 19	23 18.28	-6 22.8	1.245	2.217	9.8	17.1	8 19	23 14.48	-23 12.8	2.698	3.657	5.9	20.7
8 29	23 9.70	-7 15.8	1.209	2.211	4.5	16.8	8 29	23 7.64	-24 22.7	2.697	3.673	4.7	20.7
9 8	22 59.92	-8 12.9	1.199	2.205	1.4	16.6	9 8	23 0.34	-25 21.6	2.725	3.689	5.3	20.7
9 18	22 50.26	-9 5.8	1.213	2.200	6.7	16.9	9 18	22 53.23	-26 5.7	2.781	3.705	7.1	20.9
9 28	22 42.09	-9 46.8	1.252	2.194	11.9	17.2	9 28	22 46.94	-26 32.7	2.863	3.720	9.1	21.0
10 8	22 36.44	-10 10.9	1.312	2.188	16.3	17.5	10 8	22 41.99	-26 42.4	2.968	3.734	11.1	21.2
281085	2006 <i>SD</i> ₁₃₉	9 6.5 290°93	9°4/16.2 16				291324	2006 <i>BL</i> ₁₈₆	9 6.5 106°16	3°0/ 9.1 18			
7 30	23 19.40	+21 57.0	1.224	1.974	25.4	21.2	7 30	23 30.27	+2 44.9	1.921	2.713	16.0	20.7
8 9	23 18.39	+20 34.4	1.136	1.965	22.5	20.9	8 9	23 25.30	+3 4.6	1.848	2.726	13.0	20.5
8 19	23 14.43	+20 23.3	1.061	1.956	18.9	20.6	8 19	23 18.17	+3 9.0	1.795	2.739	9.4	20.3
8 29	23 8.02	+18 17.0	1.002	1.947	14.6	20.4	8 29	23 9.47	+2 58.9	1.766	2.752	5.7	20.1
9 8	23 0.20	+15 16.3	0.964	1.939	10.8	20.1	9 8	23 0.03	+2 37.0	1.764	2.764	3.1	20.0
9 18	22 52.36	+11 32.2	0.950	1.930	9.4	20.0	9 18	22 50.82	+2 7.3	1.790	2.777	4.9	20.1
9 28	22 46.02	+7 26.2	0.961	1.921	12.1	20.2	9 28	22 42.79	+1 35.2	1.843	2.789	8.4	20.3
10 8	22 42.39	+3 24.3	0.997	1.913	16.6	20.4	10 8	22 36.67	+1 5.8	1.921	2.800	11.7	20.6
172903	2005 <i>GC</i> ₇₈	9 6.5 16°03	10°1/28.9 18				433416	2013 <i>TC</i> ₅₁	9 6.5 149°49	2°6/ 9.0 17			
7 30	23 28.33	-28 53.5	1.522	2.389	15.9	19.5	7 30	23 25.34	+4 12.9	1.677	2.482	17.4	21.3
8 9	23 24.59	-30 14.7	1.476	2.393	13.2	19.3	8 9	23 21.90	+3 51.1	1.598	2.485	14.1	21.1
8 19	23 18.03	-31 28.3	1.451	2.397	11.0	19.2	8 19	23 16.14	+3 7.6	1.538	2.488	10.2	20.9
8 29	23 9.44	-32 23.5	1.448	2.402	10.1	19.2	8 29	23 8.61	+2 4.4	1.502	2.491	6.0	20.6
9 8	23 0.00	-32 51.5	1.468	2.408	11.0	19.2	9 8	23 0.18	+0 46.8	1.490	2.494	2.7	20.4
9 18	22 51.03	-32 48.0	1.510	2.414	13.2	19.4	9 18	22 51.89	-0 37.8	1.506	2.496	5.1	20.6
9 28	22 43.78	-32 13.1	1.573	2.421	15.7	19.6	9 28	22 44.80	-2 0.4	1.548	2.498	9.3	20.9
10 8	22 39.06	-31 10.9	1.655	2.429	18.1	19.8	10 8	22 39.73	-3 13.4	1.615	2.500	13.2	21.1
14808	1981 <i>EV</i> ₂₇	9 6.5 345°44	0°7/ 7.2 18				221912	2008 <i>RU</i> ₂₅	9 6.5 305°06	0°8/ 4.9 17			
7 30	23 22.44	-1 1.7	1.804	2.631	15.6	18.6	7 30	23 16.79	-8 31.7	4.203	5.025	7.4	20.0
8 9	23 19.48	-1 31.0	1.723	2.628	12.3	18.4	8 9	23 13.85	-9 0.5	4.111	5.018	5.7	19.8
8 19	23 14.43	-2 16.9	1.663	2.626	8.5	18.2	8 19	23 10.01	-9 33.7	4.044	5.012	3.8	19.7
8 29	23 7.76	-3 16.1	1.626	2.624	4.2	17.9	8 29	23 5.53	-10 9.2	4.005	5.006	1.7	19.5
9 8	23 0.28	-4 23.0	1.615	2.622	0.8	17.7	9 8	23 0.73	-10 44.5	3.995	4.999	1.1	19.5
9 18	22 52.91	-5 30.7	1.632	2.621	4.9	18.0	9 18	22 55.96	-11 17.4	4.015	4.993	3.0	19.6
9 28	22 46.59	-6 32.3	1.675	2.620	9.1	18.2	9 28	22 51.60	-11 45.5	4.064	4.987	5.0	19.8
10 8	22 42.09	-7 22.1	1.741	2.619	12.8	18.5	10 8	22 47.97	-12 7.2	4.140	4.980	6.8	19.9
100681	1997 <i>YD</i> ₁	9 6.5 170°46	10°3/17.6 18				222831	2002 <i>EE</i> ₈	9 6.5 285°77	0°2/ 6.2 18			
7 30	23 33.95	+25 10.9	2.294	2.922	17.7	20.4	7 30	23 18.39	-6 20.8	4.396	5.205	7.3	19.9
8 9	23 28.30	+26 22.6	2.204	2.928	16.1	20.2	8 9	23 15.01	-6 31.6	4.302	5.200	5.7	19.8
8 19	23 20.36	+27 11.8	2.130	2.933	14.2	20.1	8 19	23 10.75	-6 46.8	4.232	5.195	3.8	19.7
8 29	23 10.59	+27 33.8	2.076	2.936	12.3	20.0	8 29	23 5.87	-7 4.9	4.190	5.190	1.8	19.5
9 8	22 59.79	+27 26.2	2.044	2.939	10.8	19.9	9 8	23 0.68	-7 23.9	4.178	5.185	0.4	19.4
9 18	22 48.96	+26 49.5	2.037	2.941	10.3	19.8	9 18	22 55.53	-7 42.0	4.196	5.180	2.5	19.6
9 28	22 39.16	+25 48.2	2.055	2.942	10.9	19.9	9 28	22 50.78	-7 57.3	4.244	5.175	4.5	19.7
10 8	22 31.25	+24 30.0	2.098	2.942	12.4	20.0	10 8	22 46.74	-8 8.2	4.319	5.170	6.3	19.8
385362	2002 <i>PT</i> ₁₇₀	9 6.5 258°51	0°0/ 6.9 13 C				276269	2002 <i>SU</i> ₁₈	9 6.5 333°87	2°9/ 4.7 18			
7 30	23 3.73	-4 54.9	47.841	48.644	0.7	23.4	7 30	23 23.91	-10 22.4	1.141	2.021	19.2	20.1
8 9	23 3.20	-4 58.0	47.747	48.641	0.6	23.3	8 9	23 22.00	-10 42.2	1.066	2.005	15.1	19.8
8 19	23 2.61	-5 1.5	47.677	48.637	0.4	23.3	8 19	23 16.91	-11 14.5	1.009	1.990	10.2	19.5
8 29	23 1.97	-5 5.3	47.636	48.634	0.2	23.3	8 29	23 9.21	-11 52.8	0.973	1.976	5.0	19.1
9 8	23 1.32	-5 9.2	47.624	48.631	0.0	23.2	9 8	23 0.08	-12 28.3	0.959	1.963	3.6	19.0
9 18	23 0.66	-5 13.2	47.641	48.628	0.2	23.3	9 18	22 51.02	-12 52.6	0.967	1.951	8.6	19.3
9 28	23 0.04	-5 17.0	47.687	48.625	0.4	23.3	9 28	22 43.63	-12 58.7	0.998	1.941	14.0	19.5
10 8	22 59.46	-5 20.6	47.761	48.621	0.6	23.3	10 8	22 39.10	-12 44.0	1.047	1.932	18.8	19.8
507678	2013 <i>SX</i> ₃₅	9 6.5 71°67	0°4/ 6.9 17				371417	2006 <i>SE</i> ₇₆	9 6.6 29°13	1°8/ 5.3 17			
7 30	23 28.46	-2 14.5	1.376	2.215	18.9	21.6	7 30	23 24.19	-6 47.8	1.001	1.882	21.2	20.2
8 9	23 24.54	-2 38.9	1.320	2.233	14.8	21.4	8 9	23 22.02	-7 20.1	0.958	1.896	16.4	20.0
8 19	23 17.95	-3 21.4	1.283	2.250	10.1	21.2	8 19	23 16.64	-8 9.8	0.931	1.911	10.9	19.7
8 29	23 9.40	-4 17.3	1.268	2.268	4.8	20.9	8 29	23 8.90	-9 9.0	0.924	1.928	4.9	19.5
9 8	23 0.03	-5 19.3	1.279	2.286	0.7	20.7	9 8	23 0.20	-10 7.4	0.940	1.945	2.4	19.4
9 18	22 51.08	-6 19.2	1.315	2.303	5.9	21.1	9 18	22 52.08	-10 55.2	0.978	1.964	7.8	19.8
9 28	22 43.74	-7 9.3	1.376	2.321	10.7	21.4	9 28	22 45.95	-11 25.1	1.037	1.984	13.1	20.1
10 8	22 38.83	-7 44.7	1.459	2.339	14.7	21.7	10 8	22 42.69	-11 33.8	1.116	2.005	17.5	20.5
51264	2000 <i>JH</i> ₇₁	9 6.5 275°76	0°0/ 6.4 18				223206	2003 <i>BS</i> ₄₄	9 6.6 226°08	2°0/ 4.7 18			
7 30	23 29.62	-5 59.9											

EPHEMERIDES

9 6.6

9 6.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
369033	2008 <i>AO</i> ₅₃		9 6.6 331°01	1°3/ 5.6 18			385861	2006 <i>QQ</i> ₁₅₁		9 6.6 76°09	0°3/ 6.9 16		
7 30	23 22.41	- 6 0.7	1.137	2.010	19.8	20.8	7 30	23 26.42	- 2 43.2	1.871	2.693	15.2	21.3
8 9	23 20.78	- 6 26.5	1.063	1.996	15.6	20.5	8 9	23 22.29	- 3 8.1	1.808	2.712	11.9	21.1
8 19	23 16.06	- 7 11.0	1.006	1.984	10.5	20.2	8 19	23 16.13	- 3 46.5	1.767	2.731	8.1	20.9
8 29	23 8.82	- 8 8.8	0.969	1.972	4.9	19.8	8 29	23 8.52	- 4 34.5	1.751	2.750	3.9	20.7
9 8	23 0.19	- 9 11.1	0.956	1.962	2.0	19.6	9 8	23 0.29	- 5 26.9	1.762	2.769	0.6	20.5
9 18	22 51.61	-10 7.5	0.965	1.952	7.7	19.9	9 18	22 52.36	- 6 17.7	1.800	2.788	4.7	20.8
9 28	22 44.64	-10 48.9	0.995	1.944	13.4	20.2	9 28	22 45.59	- 7 1.5	1.865	2.806	8.6	21.1
10 8	22 40.47	-11 9.4	1.046	1.936	18.3	20.5	10 8	22 40.66	- 7 34.2	1.955	2.825	12.0	21.3
31549	1999 <i>DY</i> ₆		9 6.6 62°73	9°6/29.8 18			66606	1999 <i>RK</i> ₁₉₄		9 6.6 337°34	2°9/ 8.7 18		
7 30	23 31.94	-27 43.6	1.526	2.388	16.2	17.2	7 30	23 18.44	+ 1 40.0	1.259	2.108	19.7	18.3
8 9	23 27.25	-29 6.3	1.487	2.402	13.2	17.0	8 9	23 17.42	+ 1 48.1	1.174	2.088	16.1	18.0
8 19	23 19.74	-30 21.7	1.468	2.417	10.8	16.9	8 19	23 13.68	+ 1 33.6	1.106	2.070	11.7	17.7
8 29	23 10.24	-31 18.9	1.473	2.431	9.7	16.9	8 29	23 7.69	+ 0 57.0	1.058	2.053	6.8	17.4
9 8	22 59.99	-31 49.6	1.501	2.446	10.5	17.0	9 8	23 0.40	+ 0 2.7	1.032	2.037	2.9	17.1
9 18	22 50.34	-31 49.5	1.552	2.461	12.6	17.2	9 18	22 53.04	- 1 1.7	1.030	2.023	6.1	17.3
9 28	22 42.50	-31 19.2	1.626	2.476	15.2	17.4	9 28	22 47.01	- 2 6.2	1.050	2.010	11.3	17.5
10 8	22 37.26	-30 23.0	1.718	2.490	17.6	17.6	10 8	22 43.43	- 3 1.4	1.091	1.999	16.2	17.8
341034	2007 <i>GD</i> ₂₇		9 6.6 96°72	3°5/ 3.3 18			6664	Tennyso		9 6.6 154°27	2°7/ 4.3 18		
7 30	23 28.74	-12 37.3	1.770	2.618	14.9	20.7	7 30	23 29.85	-10 31.8	1.692	2.536	15.6	17.8
8 9	23 24.24	-13 33.8	1.714	2.635	11.4	20.5	8 9	23 25.36	-11 11.7	1.621	2.540	12.1	17.6
8 19	23 17.51	-14 37.1	1.679	2.651	7.7	20.3	8 19	23 18.44	-12 0.6	1.572	2.544	8.1	17.4
8 29	23 9.17	-15 40.2	1.670	2.668	4.3	20.1	8 29	23 9.70	-12 52.7	1.547	2.548	4.0	17.1
9 8	23 0.16	-16 35.8	1.688	2.684	4.1	20.2	9 8	23 0.09	-13 40.8	1.549	2.551	3.2	17.1
9 18	22 51.51	-17 17.7	1.733	2.699	7.3	20.4	9 18	22 50.71	-14 18.5	1.578	2.553	6.9	17.3
9 28	22 44.18	-17 42.1	1.803	2.715	10.8	20.6	9 28	22 42.68	-14 40.9	1.633	2.556	11.0	17.6
10 8	22 38.89	-17 47.9	1.896	2.730	13.9	20.9	10 8	22 36.81	-14 46.1	1.710	2.558	14.5	17.8
472320	2014 <i>YO</i> ₃₅		9 6.6 265°34	4°2/ 3.2 18			165039	2000 <i>DP</i> ₉₅		9 6.6 240°52	2°7/ 3.5 18		
7 30	23 28.11	-12 6.2	1.464	2.323	16.8	21.2	7 30	23 23.21	- 9 20.6	1.982	2.827	13.7	19.9
8 9	23 24.65	-13 5.6	1.383	2.310	13.1	20.9	8 9	23 19.97	-10 34.2	1.902	2.823	10.5	19.7
8 19	23 18.38	-14 16.7	1.322	2.297	8.9	20.6	8 19	23 14.72	-11 59.0	1.845	2.818	7.0	19.5
8 29	23 9.83	-15 31.6	1.284	2.283	5.0	20.4	8 29	23 7.95	-13 28.9	1.813	2.813	3.6	19.3
9 8	23 0.02	-16 40.4	1.272	2.269	4.9	20.3	9 8	23 0.38	-14 56.2	1.809	2.808	3.3	19.3
9 18	22 50.25	-17 34.1	1.285	2.255	8.9	20.5	9 18	22 52.90	-16 13.3	1.833	2.803	6.7	19.5
9 28	22 41.88	-18 6.0	1.322	2.241	13.4	20.7	9 28	22 46.39	-17 14.2	1.883	2.797	10.2	19.7
10 8	22 35.98	-18 13.6	1.380	2.226	17.4	21.0	10 8	22 41.59	-17 55.6	1.956	2.792	13.5	19.9
113305	2002 <i>RD</i> ₁₈₆		9 6.6 178°18	3°9/10.5 18			403395	2009 <i>QA</i> ₅₉		9 6.6 226°59	1°8/ 4.7 18		
7 30	23 25.88	+ 6 46.2	2.110	2.884	15.3	19.4	7 30	23 26.24	-10 50.7	2.401	3.233	12.0	20.7
8 9	23 21.88	+ 6 58.4	2.022	2.885	12.7	19.2	8 9	23 21.86	-11 11.4	2.319	3.231	9.3	20.5
8 19	23 15.92	+ 6 53.4	1.954	2.885	9.6	19.0	8 19	23 15.74	-11 37.6	2.260	3.229	6.2	20.3
8 29	23 8.48	+ 6 31.4	1.910	2.885	6.4	18.8	8 29	23 8.35	-12 5.8	2.227	3.227	3.0	20.1
9 8	23 0.27	+ 5 54.5	1.892	2.885	4.1	18.7	9 8	23 0.33	-12 31.6	2.223	3.225	2.2	20.0
9 18	22 52.13	+ 5 6.9	1.901	2.885	5.0	18.7	9 18	22 52.44	-12 51.2	2.248	3.223	5.1	20.2
9 28	22 44.93	+ 4 14.1	1.938	2.885	7.9	18.9	9 28	22 45.42	-13 1.5	2.299	3.221	8.3	20.4
10 8	22 39.40	+ 3 22.2	2.000	2.884	11.1	19.1	10 8	22 39.91	-13 0.8	2.376	3.219	11.1	20.6
360415	2002 <i>GG</i> ₁₀₆		9 6.6 125°28	7°7/28.1 18			146312	2001 <i>KU</i> ₅₁		9 6.6 343°63	5°6/ 2.2 18		
7 30	23 30.46	-32 23.8	2.571	3.403	11.3	20.8	7 30	23 24.51	-14 32.2	1.265	2.143	17.8	18.9
8 9	23 25.08	-33 29.5	2.526	3.414	9.5	20.7	8 9	23 22.09	-15 40.0	1.200	2.138	13.8	18.6
8 19	23 17.82	-34 27.3	2.503	3.425	8.2	20.6	8 19	23 16.72	-16 57.2	1.155	2.132	9.6	18.4
8 29	23 9.25	-35 10.8	2.506	3.435	7.7	20.6	8 29	23 9.04	-18 14.0	1.131	2.128	6.1	18.2
9 8	23 0.16	-35 35.0	2.535	3.445	8.4	20.7	9 8	23 0.20	-19 19.1	1.132	2.124	6.5	18.2
9 18	22 51.40	-35 37.3	2.589	3.455	9.8	20.8	9 18	22 51.59	-20 3.4	1.155	2.121	10.2	18.4
9 28	22 43.77	-35 17.5	2.667	3.465	11.5	20.9	9 28	22 44.61	-20 21.0	1.201	2.118	14.6	18.6
10 8	22 37.88	-34 37.7	2.766	3.474	13.1	21.1	10 8	22 40.25	-20 11.3	1.266	2.116	18.5	18.9
188603	2005 <i>PJ</i> ₁₃		9 6.6 282°95	3°8/ 3.2 18			500862	2013 <i>JY</i> ₂₁		9 6.6 5°75	3°6/ 4.2 17		
7 30	23 25.37	-11 11.3	1.545	2.404	16.1	20.2	7 30	23 26.64	-10 29.3	1.102	1.979	19.9	20.8
8 9	23 22.27	-12 16.5	1.467	2.395	12.5	20.0	8 9	23 24.03	-11 9.5	1.042	1.979	15.5	20.5
8 19	23 16.61	-13 33.6	1.411	2.387	8.4	19.7	8 19	23 18.15	-12 3.0	0.999	1.979	10.4	20.2
8 29	23 8.94	-14 55.1	1.379	2.378	4.6	19.5	8 29	23 9.74	-13 1.6	0.978	1.980	5.2	20.0
9 8	23 0.19	-16 11.5	1.372	2.369	4.5	19.5	9 8	23 0.09	-13 54.8	0.979	1.982	4.2	19.9
9 18	22 51.54	-17 13.9	1.390	2.361	8.3	19.7	9 18	22 50.78	-14 33.1	1.004	1.984	9.0	20.2
9 28	22 44.19	-17 55.8	1.433	2.352	12.5	19.9	9 28	22 43.35	-14 49.9	1.050	1.987	14.1	20.5
10 8	22 39.08	-18 14.3	1.498	2.343	16.3	20.1	10 8	22 38.87	-14 43.3	1.115	1.990	18.6	20.8
398286	2010 <i>UV</i> ₇₄		9 6.6 256°08	3°1/31.5 16			343776	2011 <i>FV</i> ₁₅₄		9 6.6 324°02	23°2/16.9 18		
7 30	23 20.59	-22 50.3	4.580	5.414	6.7	21.2	7 30	23 43.92	-50 15.1	1.023	1.857	24.2	19.7
8 9	23 16.69	-23 16.3	4.500	5.408	5.3	21.1	8 9	23 40.00	-52 37.8	0.998	1.849	23.4	19.6
8 19	23 11.88	-23 40.9	4.446	5.401	3.9	21.0	8 19	23 30.10	-54 26.3	0.987	1.842	23.2	19.6
8 29	23 6.41	-24 1.6	4.420	5.394	3.1	20.9	8 29	23 15.54	-55 21.0	0.990	1.835	23.7	19.6
9 8	23 0.65	-24 16.0	4.423	5.388	3.4	20.9	9 8	22 59.17	-55 9.4	1.006	1.829	24.8	19.7
9 18	22 54.95	-24 22.5	4.455	5.381	4.6	21.0	9 18	22 44.34	-53 49.9	1.035	1.823	26.2	19.8
9 28	22 49.71	-24 19.9	4.514	5.374	6.0	21.1	9 28	22 33.73	-51 31.1	1.075	1.818	27.9	19.9
10 8	22 45.24	-24 7.7	4.599	5.367	7.4	21.2	10 8	22 28.38	-48 27.6	1.126	1.813	29.4	20.0
513656	2011 <i>SB</i> ₁₅₅		9 6.6 350°05	0°2/ 6.4 18			60305	1999 <i>XU</i> ₁₉₀		9 6.6 237°89	1°1/ 5.6 18		

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
427440	2001 <i>OW</i> ₁₂	9 6.6 353°66	2°5/ 7.9 18				508819	2001 <i>FD</i> ₁	9 6.6 186°63	1°0/ 5.5 18			
7 30	23 22.62	- 2 10.5	1.052	1.920	21.4	19.7	7 30	23 28.73	- 7 37.6	2.471	3.287	12.1	23.5
8 9	23 21.06	- 1 31.6	0.985	1.911	17.2	19.4	8 9	23 23.75	- 8 1.8	2.384	3.287	9.4	23.3
8 19	23 16.30	- 1 10.3	0.933	1.905	12.2	19.1	8 19	23 17.01	- 8 33.8	2.321	3.286	6.3	23.1
8 29	23 8.96	- 1 6.1	0.901	1.899	6.7	18.8	8 29	23 8.97	- 9 10.1	2.284	3.285	2.9	22.9
9 8	23 0.24	- 1 15.0	0.890	1.896	2.5	18.5	9 8	23 0.28	- 9 46.6	2.277	3.282	1.3	22.8
9 18	22 51.67	- 1 31.3	0.901	1.894	6.7	18.8	9 18	22 51.69	-10 19.1	2.299	3.279	4.6	23.0
9 28	22 44.86	- 1 47.4	0.934	1.895	12.3	19.1	9 28	22 43.97	-10 44.0	2.350	3.276	7.9	23.2
10 8	22 40.95	- 1 56.4	0.986	1.896	17.3	19.4	10 8	22 37.74	-10 58.6	2.426	3.272	10.8	23.4
455005	2015 <i>TG</i> ₂₅₇	9 6.6 313°48	0°8/ 7.4 17				389488	2010 <i>EN</i> ₁₃₁	9 6.6 214°96	2°3/ 4.8 18			
7 30	23 22.64	- 1 36.0	2.068	2.887	14.1	21.6	7 30	23 32.45	-12 9.1	1.904	2.739	14.5	21.0
8 9	23 19.44	- 1 53.9	1.977	2.878	11.2	21.4	8 9	23 27.17	-12 18.2	1.824	2.737	11.3	20.8
8 19	23 14.34	- 2 25.5	1.908	2.870	7.7	21.1	8 19	23 19.58	-12 32.4	1.766	2.735	7.6	20.6
8 29	23 7.78	- 3 8.2	1.864	2.862	3.9	20.9	8 29	23 10.25	-12 47.3	1.733	2.733	3.8	20.3
9 8	23 0.45	- 3 57.7	1.847	2.854	0.8	20.6	9 8	23 0.07	-12 58.1	1.728	2.730	2.7	20.3
9 18	22 53.16	- 4 48.8	1.857	2.846	4.4	20.9	9 18	22 50.09	-13 0.5	1.751	2.727	6.2	20.5
9 28	22 46.76	- 5 35.8	1.894	2.838	8.3	21.1	9 28	22 41.33	-12 51.7	1.800	2.724	10.1	20.7
10 8	22 41.97	- 6 14.1	1.956	2.831	11.8	21.3	10 8	22 34.62	-12 30.4	1.874	2.721	13.5	20.9
476753	2008 <i>UB</i> ₆₄	9 6.6 338°47	4°4/ 2.8 18				400201	2007 <i>AL</i> ₁₃	9 6.6 318°58	4°2/ 1.9 18			
7 30	23 25.73	-13 37.6	1.567	2.430	15.8	21.2	7 30	23 22.61	-14 17.9	1.977	2.833	13.2	20.9
8 9	23 22.44	-14 35.4	1.498	2.427	12.2	20.9	8 9	23 19.54	-15 31.2	1.902	2.828	10.2	20.7
8 19	23 16.65	-15 41.4	1.449	2.424	8.3	20.7	8 19	23 14.45	-16 51.5	1.850	2.823	7.0	20.5
8 29	23 8.93	-16 47.7	1.424	2.421	4.9	20.5	8 29	23 7.85	-18 11.8	1.823	2.817	4.5	20.3
9 8	23 0.26	-17 45.8	1.424	2.419	5.0	20.5	9 8	23 0.47	-19 24.5	1.824	2.813	4.9	20.4
9 18	22 51.78	-18 28.2	1.450	2.417	8.5	20.7	9 18	22 53.19	-20 22.8	1.851	2.808	7.7	20.5
9 28	22 44.65	-18 50.0	1.500	2.415	12.4	20.9	9 28	22 46.93	-21 2.1	1.904	2.803	11.0	20.7
10 8	22 39.74	-18 49.7	1.572	2.413	15.9	21.2	10 8	22 42.39	-21 20.6	1.979	2.799	13.9	20.9
301773	2010 <i>JC</i> ₁₂₁	9 6.6 6°39	6°1/31.8 18				118435	1999 <i>TK</i> ₂₇₃	9 6.6 288°47	5°3/10.8 17			
7 30	23 21.32	-16 22.7	1.454	2.332	15.9	19.6	7 30	23 30.41	+ 7 40.5	2.253	3.008	15.0	19.0
8 9	23 19.16	-17 51.6	1.396	2.332	12.3	19.4	8 9	23 25.51	+ 8 38.6	2.146	2.992	12.7	18.8
8 19	23 14.49	-19 27.1	1.359	2.334	8.7	19.2	8 19	23 18.51	+ 9 23.6	2.060	2.976	10.0	18.6
8 29	23 7.91	-20 58.9	1.345	2.336	6.3	19.1	8 29	23 9.82	+ 9 53.8	1.997	2.960	7.2	18.4
9 8	23 0.44	-22 16.5	1.356	2.339	7.1	19.1	9 8	23 0.13	+10 8.7	1.962	2.944	5.4	18.2
9 18	22 53.21	-23 11.6	1.391	2.343	10.2	19.3	9 18	22 50.30	+10 9.4	1.954	2.928	6.0	18.3
9 28	22 47.37	-23 39.4	1.449	2.348	13.8	19.5	9 28	22 41.30	+ 9 59.0	1.975	2.912	8.5	18.4
10 8	22 43.77	-23 39.8	1.526	2.353	17.0	19.8	10 8	22 33.94	+ 9 42.5	2.020	2.896	11.4	18.5
154247	2002 <i>KF</i> ₈	9 6.6 52°36	1°9/ 8.9 18				143934	2003 <i>YD</i> ₁₀₅	9 6.6 250°54	3°6/ 9.5 18			
7 30	23 20.65	+ 4 3.7	2.155	2.952	14.3	19.4	7 30	23 28.64	+ 4 23.7	1.802	2.594	16.9	20.5
8 9	23 17.69	+ 3 24.3	2.078	2.961	11.5	19.3	8 9	23 24.61	+ 4 35.8	1.702	2.579	13.9	20.3
8 19	23 13.02	+ 2 27.2	2.022	2.971	8.2	19.1	8 19	23 18.15	+ 4 29.8	1.620	2.563	10.4	20.1
8 29	23 7.10	+ 1 15.0	1.991	2.981	4.7	18.9	8 29	23 9.73	+ 4 5.5	1.562	2.546	6.5	19.8
9 8	23 0.58	- 0 7.3	1.986	2.990	1.9	18.7	9 8	23 0.14	+ 3 25.3	1.529	2.529	3.7	19.6
9 18	22 54.20	- 1 33.5	2.010	3.000	4.0	18.9	9 18	22 50.44	+ 2 34.0	1.524	2.511	5.5	19.7
9 28	22 48.70	- 2 56.8	2.063	3.011	7.5	19.1	9 28	22 41.76	+ 1 38.2	1.545	2.493	9.5	19.9
10 8	22 44.70	- 4 11.1	2.140	3.021	10.7	19.3	10 8	22 35.09	+ 0 45.3	1.590	2.474	13.5	20.1
39786	1997 <i>LV</i> ₁₇	9 6.6 53°26	0°5/ 7.1 18				477126	2009 <i>CD</i> ₄₈	9 6.6 92°08	0°8/ 5.9 18			
7 30	23 22.46	- 1 29.3	2.059	2.878	14.1	19.0	7 30	23 27.28	- 6 45.8	1.937	2.769	14.5	21.3
8 9	23 19.14	- 2 1.2	1.988	2.890	11.1	18.8	8 9	23 23.08	- 7 1.8	1.860	2.770	11.3	21.1
8 19	23 14.01	- 2 46.9	1.939	2.901	7.6	18.6	8 19	23 16.78	- 7 27.8	1.804	2.772	7.6	20.8
8 29	23 7.56	- 3 43.1	1.914	2.912	3.7	18.4	8 29	23 8.92	- 8 0.0	1.773	2.774	3.5	20.6
9 8	23 0.51	- 4 44.5	1.917	2.924	0.6	18.2	9 8	23 0.30	- 8 33.5	1.769	2.776	1.2	20.4
9 18	22 53.63	- 5 45.6	1.948	2.936	4.4	18.5	9 18	22 51.85	- 9 3.3	1.793	2.778	5.2	20.7
9 28	22 47.73	- 6 40.5	2.006	2.948	8.0	18.7	9 28	22 44.50	- 9 25.1	1.844	2.779	9.1	21.0
10 8	22 43.42	- 7 24.9	2.089	2.960	11.3	19.0	10 8	22 38.97	- 9 35.6	1.919	2.781	12.5	21.2
467463	2006 <i>KB</i> ₅₄	9 6.6 37°34	1°1/ 5.8 17				502133	2015 <i>BU</i> ₂₂	9 6.6 190°96	1°2/ 5.5 17			
7 30	23 24.46	- 4 27.2	1.076	1.946	20.9	21.1	7 30	23 25.74	- 4 34.8	1.630	2.469	16.4	21.6
8 9	23 22.12	- 5 9.6	1.027	1.959	16.2	20.9	8 9	23 22.34	- 5 31.4	1.553	2.468	12.8	21.4
8 19	23 16.69	- 6 12.4	0.996	1.973	10.8	20.6	8 19	23 16.54	- 6 44.9	1.497	2.468	8.6	21.1
8 29	23 8.97	- 7 28.1	0.985	1.987	4.9	20.4	8 29	23 8.90	- 8 9.5	1.465	2.467	3.9	20.9
9 8	23 0.28	- 8 46.1	0.996	2.003	1.7	20.2	9 8	23 0.31	- 9 37.0	1.460	2.466	1.7	20.7
9 18	22 52.06	- 9 55.5	1.032	2.019	7.4	20.6	9 18	22 51.84	-10 58.6	1.481	2.464	6.3	21.0
9 28	22 45.71	-10 47.4	1.089	2.036	12.6	21.0	9 28	22 44.62	-12 6.3	1.529	2.463	10.7	21.3
10 8	22 42.12	-11 17.1	1.167	2.054	17.1	21.3	10 8	22 39.49	-12 55.2	1.599	2.461	14.6	21.5
482023	2009 <i>VY</i>	9 6.6 240°59	28°6/ 7.8 16				324906	2007 <i>VP</i> ₂₁₁	9 6.6 226°36	1°4/ 5.5 17			
7 30	0 12.67	-62 41.3	1.015	1.781	28.7	21.1	7 30	23 29.97	- 7 9.9	1.559	2.401	16.9	21.5
8 9	0 5.98	-65 9.5	1.007	1.777	28.6	21.1	8 9	23 25.82	- 7 36.1	1.479	2.396	13.2	21.2
8 19	23 49.29	-66 52.9	1.008	1.772	28.8	21.1	8 19	23 19.01	- 8 15.3	1.419	2.390	8.9	21.0
8 29	23 24.63	-67 29.1	1.018	1.767	29.3	21.2	8 29	23 10.11	- 9 2.5	1.383	2.384	4.1	20.7
9 8	22 57.81	-66 44.5	1.037	1.761	30.0	21.2	9 8	23 0.10	- 9 50.8	1.372	2.378	1.9	20.5
9 18	22 35.27	-64 40.8	1.065	1.756	31.0	21.3	9 18	22 50.21	-10 33.1	1.388	2.371	6.6	20.8
9 28	22 20.72	-61 32.3	1.100	1.750	31.9	21.4	9 28	22 41.68	-11 3.2	1.429	2.364	11.2	21.0
10 8	22 14.31	-57 37.9	1.144	1.744	32.9	21.5	10 8	22 35.48	-11 17.4	1.493	2.357	15.4	21.3
434081	2002 <i>AQ</i> ₁₅₈	9 6.6 137°15	0°3/ 6.3 17				82978	2001 <i>QT</i> ₁₄₁	9 6.6 25°87	1°8/ 5			

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
423463	2005 <i>SB</i> ₁₄₄		9 6.6 18°05'	4.8/ 3.5	15		289010	2004 <i>TD</i> ₉₅		9 6.6 242°84'	0.4/ 6.9	18	
7 30	23 28.89	-14 57.4	1.250	2.123	18.3	20.7	7 30	23 25.99	- 2 25.6	1.850	2.673	15.4	21.9
8 9	23 25.38	-15 29.3	1.193	2.126	14.2	20.4	8 9	23 22.30	- 2 47.7	1.764	2.667	12.2	21.7
8 19	23 18.82	-16 7.0	1.155	2.131	9.7	20.2	8 19	23 16.42	- 3 24.5	1.698	2.661	8.4	21.5
8 29	23 9.99	-16 42.3	1.138	2.136	5.7	20.0	8 29	23 8.84	- 4 13.0	1.656	2.655	4.1	21.2
9 8	23 0.15	-17 6.6	1.146	2.143	5.4	20.0	9 8	23 0.37	- 5 8.0	1.641	2.648	0.6	20.9
9 18	22 50.74	-17 13.5	1.177	2.150	9.2	20.2	9 18	22 51.95	- 6 3.3	1.653	2.641	5.0	21.2
9 28	22 43.15	-16 59.8	1.232	2.157	13.5	20.5	9 28	22 44.59	- 6 52.6	1.692	2.634	9.3	21.5
10 8	22 38.30	-16 25.7	1.306	2.166	17.4	20.8	10 8	22 39.10	- 7 30.7	1.755	2.627	13.0	21.7
433954	1998 <i>HD</i> ₁₃₆		9 6.6 122°43'	4.9/ 1.9	17		429895	2012 <i>TB</i> ₇₉		9 6.6 13°74'	0.0/ 6.4	18	
7 30	23 29.85	-17 33.8	1.954	2.802	13.7	20.8	7 30	23 32.83	-11 30.4	0.864	1.751	23.2	17.9
8 9	23 25.00	-18 33.2	1.895	2.814	10.6	20.6	8 9	23 29.17	-10 0.8	0.822	1.761	18.2	17.6
8 19	23 18.00	-19 35.0	1.859	2.826	7.5	20.4	8 19	23 21.65	- 8 36.1	0.795	1.775	12.3	17.4
8 29	23 9.45	-20 32.1	1.849	2.838	5.1	20.3	8 29	23 11.34	- 7 15.6	0.788	1.791	5.8	17.1
9 8	23 0.25	-21 17.7	1.866	2.849	5.5	20.4	9 8	23 0.01	- 5 58.7	0.802	1.810	0.9	16.9
9 18	22 51.35	-21 46.6	1.910	2.860	8.0	20.6	9 18	22 49.60	- 4 45.3	0.839	1.831	7.4	17.4
9 28	22 43.70	-21 56.3	1.979	2.870	11.1	20.8	9 28	22 41.76	- 3 34.7	0.897	1.855	13.1	17.8
10 8	22 38.00	-21 46.7	2.071	2.880	13.8	21.0	10 8	22 37.42	- 2 25.6	0.974	1.881	17.9	18.1
136662	1995 <i>QZ</i> ₃		9 6.6 8°86'	1.2/ 7.3	18		14189	Sevre		9 6.6 354°94'	1.2/ 7.6	18	
7 30	23 29.14	- 4 30.4	1.155	2.012	20.6	19.1	7 30	23 19.78	- 0 47.0	1.356	2.206	18.5	17.5
8 9	23 25.83	- 3 58.3	1.090	2.012	16.4	18.9	8 9	23 18.14	- 1 1.8	1.283	2.200	14.7	17.3
8 19	23 19.32	- 3 40.6	1.043	2.014	11.3	18.6	8 19	23 13.95	- 1 36.8	1.228	2.196	10.3	17.0
8 29	23 10.31	- 3 35.2	1.017	2.017	5.7	18.3	8 29	23 7.77	- 2 29.1	1.194	2.193	5.3	16.7
9 8	23 0.09	- 3 37.9	1.014	2.021	1.3	18.0	9 8	23 0.57	- 3 32.3	1.183	2.190	1.2	16.4
9 18	22 50.18	- 3 43.2	1.034	2.026	6.5	18.4	9 18	22 53.48	- 4 37.9	1.198	2.189	5.7	16.8
9 28	22 42.10	- 3 45.4	1.078	2.031	11.9	18.7	9 28	22 47.73	- 5 37.2	1.236	2.190	10.7	17.0
10 8	22 36.91	- 3 39.8	1.142	2.038	16.6	19.0	10 8	22 44.23	- 6 23.0	1.295	2.191	15.1	17.3
228589	2002 <i>AG</i> ₃₅		9 6.6 309°85'	4.2/ 9.7	18		244332	2002 <i>JH</i> ₄₃		9 6.6 41°36'	8.5/ 15.2	16	
7 30	23 25.49	+ 4 22.2	1.552	2.362	18.4	20.5	7 30	23 23.80	+16 31.7	1.454	2.211	21.8	19.5
8 9	23 22.44	+ 4 45.7	1.463	2.350	15.2	20.2	8 9	23 20.99	+17 6.6	1.397	2.231	18.8	19.3
8 19	23 16.82	+ 4 49.7	1.392	2.339	11.4	20.0	8 19	23 15.67	+17 10.7	1.355	2.253	15.4	19.2
8 29	23 9.13	+ 4 33.5	1.343	2.327	7.3	19.7	8 29	23 8.49	+16 41.5	1.331	2.275	11.9	19.0
9 8	23 0.27	+ 3 59.6	1.317	2.316	4.3	19.5	9 8	23 0.47	+15 41.0	1.330	2.297	9.2	18.9
9 18	22 51.36	+ 3 12.8	1.317	2.306	6.0	19.6	9 18	22 52.77	+14 15.7	1.351	2.320	8.7	19.0
9 28	22 43.66	+ 2 20.7	1.343	2.296	10.1	19.8	9 28	22 46.53	+12 35.7	1.397	2.344	10.5	19.1
10 8	22 38.17	+ 1 31.1	1.390	2.286	14.3	20.0	10 8	22 42.54	+10 52.8	1.467	2.367	13.3	19.4
203012	1999 <i>XE</i> ₂₀₃		9 6.6 341°25'	18.5/ 16.3	18		320472	2007 <i>VD</i> ₂₉₄		9 6.6 203°05'	0.4/ 6.9	17	
7 30	23 31.36	+25 19.9	1.436	2.124	24.7	18.6	7 30	23 27.32	- 1 19.8	1.635	2.460	17.0	21.9
8 9	23 28.15	+28 37.2	1.353	2.108	23.1	18.4	8 9	23 23.62	- 1 54.7	1.553	2.457	13.5	21.7
8 19	23 21.54	+31 34.1	1.285	2.093	21.4	18.2	8 19	23 17.47	- 2 48.2	1.490	2.454	9.3	21.4
8 29	23 11.77	+33 58.6	1.234	2.079	19.9	18.0	8 29	23 9.40	- 3 56.4	1.452	2.451	4.5	21.2
9 8	22 59.77	+35 40.0	1.201	2.067	18.8	17.9	9 8	23 0.31	- 5 12.7	1.440	2.447	0.7	20.9
9 18	22 47.03	+36 31.3	1.185	2.056	18.5	17.9	9 18	22 51.31	- 6 29.1	1.455	2.443	5.5	21.2
9 28	22 35.53	+36 33.3	1.188	2.046	19.1	17.9	9 28	22 43.55	- 7 37.2	1.496	2.438	10.2	21.5
10 8	22 26.97	+35 54.8	1.208	2.039	20.4	18.0	10 8	22 37.91	- 8 30.9	1.560	2.433	14.3	21.7
14636	1998 <i>VD</i> ₄₄		9 6.6 298°30'	5.7/ 1.9	18		514725	2006 <i>VE</i> ₈₃		9 6.6 287°80'	3.0/ 3.7	18	
7 30	23 27.02	-16 17.2	1.482	2.349	16.3	18.1	7 30	23 26.20	-12 48.7	2.015	2.860	13.4	21.3
8 9	23 23.78	-17 21.7	1.406	2.337	12.7	17.8	8 9	23 22.26	-13 26.5	1.935	2.855	10.4	21.1
8 19	23 17.77	-18 33.2	1.352	2.325	9.0	17.6	8 19	23 16.28	-14 10.6	1.878	2.849	7.0	20.9
8 29	23 9.57	-19 42.8	1.320	2.313	6.1	17.4	8 29	23 8.74	-14 55.5	1.846	2.844	3.8	20.7
9 8	23 0.21	-20 40.7	1.313	2.301	6.5	17.4	9 8	23 0.43	-15 35.5	1.841	2.838	3.5	20.6
9 18	22 50.95	-21 18.5	1.331	2.289	9.9	17.6	9 18	22 52.24	-16 5.2	1.863	2.833	6.6	20.8
9 28	22 43.12	-21 31.3	1.372	2.278	13.9	17.8	9 28	22 45.08	-16 20.7	1.912	2.828	10.0	21.0
10 8	22 37.72	-21 18.6	1.433	2.267	17.6	18.0	10 8	22 39.70	-16 20.4	1.984	2.822	13.2	21.2
522821	2016 <i>NW</i> ₈₁		9 6.6 73°20'	4.3/ 3.1	17		373687	2002 <i>RB</i> ₄₅		9 6.6 357°70'	2.7/ 4.7	17	
7 30	23 28.51	-13 31.4	1.514	2.374	16.4	21.3	7 30	23 16.60	- 7 53.3	0.926	1.825	21.0	19.9
8 9	23 24.53	-14 28.2	1.457	2.384	12.6	21.1	8 9	23 16.63	- 8 31.1	0.869	1.818	16.3	19.6
8 19	23 17.98	-15 32.2	1.420	2.394	8.5	20.8	8 19	23 13.43	- 9 27.9	0.828	1.813	10.9	19.3
8 29	23 9.53	-16 35.5	1.408	2.405	5.0	20.7	8 29	23 7.66	-10 35.7	0.806	1.810	5.1	18.9
9 8	23 0.25	-17 29.4	1.421	2.415	4.9	20.7	9 8	23 0.61	-11 43.0	0.805	1.810	3.4	18.8
9 18	22 51.34	-18 7.0	1.459	2.426	8.4	20.9	9 18	22 53.81	-12 37.8	0.824	1.811	8.9	19.2
9 28	22 43.94	-18 24.1	1.522	2.436	12.2	21.2	9 28	22 48.84	-13 10.9	0.863	1.814	14.5	19.5
10 8	22 38.87	-18 20.1	1.606	2.447	15.6	21.4	10 8	22 46.78	-13 17.8	0.920	1.820	19.3	19.8
213958	2003 <i>YF</i> ₁₇		9 6.6 155°96'	5.7/ 30.7	18		212202	2005 <i>GX</i> ₁₃₇		9 6.6 256°86'	2.1/ 8.7	18	
7 30	23 26.67	-21 12.0	2.301	3.150	11.9	20.7	7 30	23 24.65	+ 2 19.2	2.064	2.864	14.8	20.7
8 9	23 22.36	-22 32.5	2.239	3.155	9.4	20.6	8 9	23 21.09	+ 2 8.2	1.968	2.853	12.0	20.5
8 19	23 16.17	-23 53.3	2.201	3.161	7.0	20.4	8 19	23 15.55	+ 1 40.9	1.891	2.841	8.6	20.2
8 29	23 8.61	-25 7.5	2.190	3.166	5.7	20.4	8 29	23 8.44	+ 0 58.9	1.839	2.830	5.0	20.0
9 8	23 0.41	-26 8.3	2.207	3.170	6.4	20.4	9 8	23 0.48	+ 0 5.7	1.814	2.818	2.1	19.8
9 18	22 52.39	-26 50.8	2.250	3.174	8.5	20.6	9 18	22 52.51	- 0 53.6	1.816	2.806	4.5	19.9
9 28	22 45.37	-27 12.5	2.318	3.178	10.9	20.7	9 28	22 45.42	- 1 52.6	1.846	2.793	8.3	20.1
10 8	22 40.00	-27 13.5	2.409	3.181	13.2	20.9	10 8	22 39.99	- 2 45.6	1.901	2.781	11.8	20.3
294436	2007 <i>VB</i> ₂₆₄		9 6.6 316°27'	3.2/ 4.4	18		213460	2002 <i>CE</i> ₁₈₄		9 6			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
500871	2013 <i>JL</i> ₅₂		9 6.6 186°81	3°2/ 2.7 18			154705	2004 <i>JQ</i> ₂₂		9 6.6 38°53	1°3/ 7.6 18		
7 30	23 26.41	-15 36.8	2.684	3.519	10.8	21.8	7 30	23 26.20	-1 16.1	1.282	2.127	19.6	20.0
8 9	23 21.86	-16 19.2	2.605	3.519	8.3	21.6	8 9	23 23.08	-1 22.0	1.226	2.140	15.5	19.7
8 19	23 15.71	-17 4.5	2.551	3.518	5.7	21.4	8 19	23 17.20	-1 47.3	1.188	2.155	10.8	19.5
8 29	23 8.39	-17 48.3	2.524	3.517	3.6	21.3	8 29	23 9.27	-2 28.3	1.171	2.169	5.5	19.3
9 8	23 0.52	-18 25.8	2.526	3.515	3.6	21.3	9 8	23 0.44	-3 18.5	1.178	2.185	1.3	19.0
9 18	22 52.75	-18 53.3	2.556	3.513	5.9	21.4	9 18	22 52.00	-4 10.0	1.210	2.201	5.8	19.4
9 28	22 45.80	-19 8.1	2.614	3.511	8.5	21.6	9 28	22 45.19	-4 54.9	1.266	2.218	10.7	19.7
10 8	22 40.22	-19 9.1	2.697	3.508	10.9	21.8	10 8	22 40.86	-5 27.3	1.344	2.235	15.0	20.0
516035	2015 <i>TJ</i> ₁₇		9 6.6 262°91	7°9/27.8 18			160207	2002 <i>CE</i> ₃₉		9 6.6 206°37	2°0/ 4.2 18		
7 30	23 27.50	-29 39.0	2.343	3.187	11.8	20.7	7 30	23 22.80	-8 39.7	2.306	3.141	12.3	20.9
8 9	23 23.22	-30 56.3	2.275	3.176	9.9	20.5	8 9	23 19.37	-9 39.6	2.224	3.140	9.5	20.7
8 19	23 16.89	-32 8.8	2.231	3.166	8.4	20.4	8 19	23 14.21	-10 48.9	2.167	3.138	6.3	20.5
8 29	23 9.03	-33 8.9	2.212	3.155	7.9	20.4	8 29	23 7.77	-12 2.7	2.135	3.136	3.1	20.3
9 8	23 0.41	-33 50.0	2.219	3.143	8.7	20.4	9 8	23 0.68	-13 15.1	2.132	3.134	2.5	20.3
9 18	22 51.92	-34 8.1	2.251	3.132	10.4	20.5	9 18	22 53.67	-14 20.2	2.158	3.131	5.5	20.5
9 28	22 44.48	-34 1.7	2.306	3.121	12.5	20.6	9 28	22 47.50	-15 13.0	2.211	3.129	8.7	20.7
10 8	22 38.81	-33 32.1	2.381	3.109	14.4	20.8	10 8	22 42.79	-15 50.6	2.288	3.126	11.7	20.9
356437	2010 <i>WK</i> ₁₁		9 6.6 278°67	0°8/ 8.1 15			340230	2006 <i>BN</i> ₇₂		9 6.6 129°02	0°3/ 6.8 17		
7 30	23 18.09	-0 54.4	4.406	5.193	7.7	21.6	7 30	23 30.36	-4 20.3	1.920	2.739	15.1	21.4
8 9	23 14.85	-1 0.6	4.306	5.187	6.1	21.5	8 9	23 25.47	-4 24.6	1.845	2.747	11.8	21.2
8 19	23 10.73	-1 13.0	4.230	5.181	4.3	21.4	8 19	23 18.42	-4 40.1	1.792	2.755	8.1	21.0
8 29	23 5.99	-1 30.5	4.182	5.175	2.3	21.2	8 29	23 9.77	-5 3.8	1.764	2.762	3.9	20.8
9 8	23 0.93	-1 51.5	4.163	5.168	0.8	21.1	9 8	23 0.37	-5 31.4	1.763	2.770	0.6	20.6
9 18	22 55.89	-2 14.0	4.174	5.162	2.3	21.2	9 18	22 51.18	-5 58.4	1.790	2.777	4.8	20.9
9 28	22 51.24	-2 36.1	4.215	5.156	4.2	21.4	9 28	22 43.16	-6 20.1	1.844	2.784	8.8	21.2
10 8	22 47.28	-2 55.8	4.283	5.150	6.1	21.5	10 8	22 37.06	-6 33.0	1.923	2.790	12.3	21.4
42036	2000 <i>YP</i> ₉₆		9 6.6 295°82	1°4/ 9.3 16			342823	2008 <i>XQ</i> ₂₉		9 6.6 251°74	0°4/ 6.9 18		
7 30	23 17.41	+ 2 42.2	4.362	5.134	8.0	19.3	7 30	23 26.95	-3 8.9	1.954	2.774	14.8	22.0
8 9	23 14.33	+ 2 36.0	4.263	5.131	6.4	19.2	8 9	23 23.00	-3 23.9	1.861	2.763	11.7	21.8
8 19	23 10.39	+ 2 22.3	4.189	5.128	4.7	19.1	8 19	23 16.91	-3 52.0	1.789	2.752	8.1	21.5
8 29	23 5.83	+ 2 1.9	4.141	5.125	2.8	18.9	8 29	23 9.14	-4 30.4	1.742	2.741	3.9	21.3
9 8	23 0.95	+ 1 36.5	4.122	5.123	1.5	18.8	9 8	23 0.46	-5 14.6	1.722	2.729	0.6	21.0
9 18	22 56.11	+ 1 7.9	4.133	5.120	2.3	18.9	9 18	22 51.78	-5 59.2	1.730	2.718	4.9	21.3
9 28	22 51.65	+ 0 38.4	4.173	5.118	4.2	19.0	9 28	22 44.10	-6 38.6	1.765	2.706	9.0	21.5
10 8	22 47.89	+ 0 10.2	4.242	5.115	6.0	19.2	10 8	22 38.21	-7 8.1	1.824	2.693	12.7	21.7
151403	2002 <i>EV</i> ₁₀₆		9 6.6 203°38	3°3/ 2.9 18			99540	2002 <i>EA</i> ₉₈		9 6.6 48°24	5°3/ 3.2 18		
7 30	23 26.82	-15 19.6	2.459	3.298	11.5	20.6	7 30	23 30.36	-14 44.8	1.167	2.042	19.2	18.6
8 9	23 22.34	-15 57.3	2.380	3.295	8.9	20.4	8 9	23 26.58	-15 35.8	1.121	2.056	14.9	18.3
8 19	23 16.12	-16 38.4	2.324	3.293	6.1	20.2	8 19	23 19.65	-16 33.3	1.094	2.071	10.1	18.1
8 29	23 8.62	-17 17.9	2.296	3.290	3.7	20.0	8 29	23 10.43	-17 27.5	1.089	2.086	6.1	18.0
9 8	23 0.50	-17 51.2	2.295	3.286	3.7	20.0	9 8	23 0.30	-18 8.4	1.107	2.102	6.0	18.0
9 18	22 52.50	-18 14.1	2.323	3.283	6.1	20.2	9 18	22 50.78	-18 28.8	1.149	2.119	9.7	18.3
9 28	22 45.39	-18 23.8	2.378	3.279	9.0	20.4	9 28	22 43.26	-18 25.4	1.214	2.135	14.0	18.6
10 8	22 39.77	-18 19.3	2.457	3.276	11.6	20.5	10 8	22 38.59	-17 59.2	1.297	2.152	17.8	18.9
469908	2005 <i>XV</i> ₂₂		9 6.6 293°15	2°8/ 4.3 18			400230	2007 <i>EP</i> ₁₅₃		9 6.6 212°81	1°1/ 5.2 18		
7 30	23 25.99	-9 51.1	1.569	2.424	16.1	21.6	7 30	23 22.12	-5 57.6	2.382	3.209	12.2	20.9
8 9	23 22.85	-10 34.2	1.483	2.408	12.6	21.3	8 9	23 18.78	-6 51.2	2.298	3.207	9.5	20.8
8 19	23 17.13	-11 29.4	1.417	2.392	8.5	21.0	8 19	23 13.79	-7 55.5	2.237	3.205	6.3	20.6
8 29	23 9.32	-12 30.7	1.375	2.376	4.2	20.8	8 29	23 7.58	-9 6.3	2.202	3.203	2.9	20.3
9 8	23 0.36	-13 30.1	1.358	2.360	3.4	20.7	9 8	23 0.74	-10 18.3	2.196	3.201	1.5	20.2
9 18	22 51.39	-14 19.5	1.367	2.344	7.5	20.9	9 18	22 53.98	-11 25.7	2.219	3.199	4.8	20.5
9 28	22 43.66	-14 52.6	1.400	2.328	12.0	21.1	9 28	22 48.00	-12 23.5	2.269	3.196	8.1	20.7
10 8	22 38.15	-15 5.7	1.455	2.313	16.1	21.3	10 8	22 43.41	-13 8.1	2.345	3.194	11.0	20.9
371541	2006 <i>UB</i> ₂₉₀		9 6.6 50°40	1°8/ 7.8 17			274166	2008 <i>FL</i> ₁₂₉		9 6.6 172°69	2°4/ 4.6 17		
7 30	23 28.60	-0 53.4	1.319	2.156	19.6	21.0	7 30	23 27.58	-8 47.7	1.594	2.443	16.2	21.2
8 9	23 24.94	-0 48.5	1.258	2.167	15.6	20.7	8 9	23 23.85	-9 33.7	1.522	2.443	12.6	21.0
8 19	23 18.46	-1 2.2	1.215	2.178	10.9	20.5	8 19	23 17.63	-10 31.5	1.471	2.444	8.4	20.8
8 29	23 9.87	-1 32.0	1.193	2.190	5.7	20.2	8 29	23 9.50	-11 35.3	1.443	2.444	4.0	20.5
9 8	23 0.31	-2 12.2	1.196	2.202	1.8	20.0	9 8	23 0.43	-12 36.9	1.441	2.444	2.9	20.4
9 18	22 51.11	-2 55.8	1.224	2.215	5.8	20.3	9 18	22 51.54	-13 29.0	1.466	2.445	7.0	20.7
9 28	22 43.54	-3 35.2	1.276	2.228	10.7	20.6	9 28	22 43.99	-14 5.3	1.516	2.445	11.2	20.9
10 8	22 38.51	-4 4.3	1.351	2.241	15.0	20.9	10 8	22 38.63	-14 23.1	1.589	2.445	15.0	21.2
41712	2000 <i>UZ</i> ₆₈		9 6.6 170°39	0°7/ 6.1 18			428553	2008 <i>CF</i> ₇₃		9 6.6 232°62	3°4/ 3.8 17		
7 30	23 31.76	-6 5.1	1.641	2.473	16.6	19.1	7 30	23 30.36	-11 52.5	1.735	2.580	15.3	22.3
8 9	23 27.00	-6 21.3	1.565	2.475	13.0	18.9	8 9	23 26.00	-12 40.0	1.651	2.570	11.9	22.1
8 19	23 19.70	-6 49.8	1.510	2.478	8.8	18.7	8 19	23 19.11	-13 36.6	1.587	2.559	8.1	21.8
8 29	23 10.44	-7 26.5	1.479	2.479	4.1	18.4	8 29	23 10.25	-14 36.1	1.549	2.548	4.4	21.6
9 8	23 0.22	-8 5.3	1.474	2.481	1.2	18.2	9 8	23 0.31	-15 30.8	1.537	2.536	3.9	21.5
9 18	22 50.19	-8 40.3	1.496	2.481	5.9	18.5	9 18	22 50.42	-16 13.4	1.553	2.523	7.5	21.7
9 28	22 41.53	-9 5.8	1.545	2.482	10.4	18.8	9 28	22 41.76	-16 38.8	1.593	2.510	11.6	21.9
10 8	22 35.13	-9 18.5	1.617	2.482	14.3	19.0	10 8	22 35.25	-16 44.8	1.657	2.496	15.3	22.1
257805	2000 <i>EO</i> ₁₀₈		9 6.6 287°01	0°1/ 6.5 17			353344	2010 <i>VF</i> ₂₁		9 6.6 219°27	0°3/ 7.4 16		
7 30	23 32.88	-7 14.3											

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
246879	1995 SB ₁₉		9 6.6 125°33	3°6/ 3.6 16			316020	Linshuhow		9 6.6 51°19	0°7/ 6.1 17		
7 30	23 32.39	-15 5.6	1.972	2.811	13.9	20.7	7 30	23 29.39	-5 19.2	1.151	2.010	20.5	20.7
8 9	23 26.96	-15 35.3	1.907	2.822	10.8	20.5	8 9	23 25.75	-5 41.0	1.104	2.029	15.9	20.5
8 19	23 19.36	-16 8.3	1.863	2.832	7.4	20.3	8 19	23 19.06	-6 19.6	1.075	2.049	10.7	20.3
8 29	23 10.19	-16 39.1	1.846	2.841	4.3	20.2	8 29	23 10.16	-7 8.9	1.067	2.069	4.9	20.0
9 8	23 0.35	-17 2.1	1.856	2.851	4.0	20.2	9 8	23 0.39	-8 0.3	1.083	2.089	1.3	19.9
9 18	22 50.81	-17 13.0	1.894	2.860	6.9	20.4	9 18	22 51.19	-8 45.3	1.122	2.110	6.9	20.3
9 28	22 42.54	-17 9.2	1.959	2.868	10.2	20.6	9 28	22 43.91	-9 17.0	1.186	2.132	11.9	20.6
10 8	22 36.26	-16 50.4	2.048	2.877	13.2	20.8	10 8	22 39.40	-9 31.5	1.270	2.153	16.2	21.0
138996	2001 DT ₂₂		9 6.6 122°77	0°9/ 5.8 17			211030	2002 AO ₁₄₄		9 6.6 197°22	0°9/ 7.3 17		
7 30	23 30.30	-5 37.8	1.705	2.535	16.1	21.2	7 30	23 29.51	-1 38.4	1.575	2.400	17.5	21.7
8 9	23 25.64	-6 13.4	1.639	2.549	12.6	21.0	8 9	23 25.45	-1 53.4	1.495	2.399	13.9	21.5
8 19	23 18.63	-7 1.8	1.594	2.562	8.4	20.7	8 19	23 18.80	-2 25.5	1.434	2.397	9.7	21.2
8 29	23 9.90	-7 58.1	1.574	2.575	3.8	20.5	8 29	23 10.12	-3 11.8	1.397	2.395	4.9	20.9
9 8	23 0.39	-8 55.6	1.581	2.587	1.4	20.3	9 8	23 0.37	-4 6.5	1.385	2.392	0.9	20.6
9 18	22 51.18	-9 47.6	1.616	2.599	5.8	20.7	9 18	22 50.73	-5 2.5	1.400	2.389	5.6	21.0
9 28	22 43.31	-10 28.3	1.676	2.610	10.0	21.0	9 28	22 42.42	-5 52.5	1.441	2.386	10.3	21.2
10 8	22 37.55	-10 54.2	1.761	2.621	13.6	21.2	10 8	22 36.37	-6 30.7	1.505	2.382	14.5	21.5
269918	2000 JN ₆₄		9 6.6 214°98	5°0/ 11.6 18			454812	2015 RV ₉₄		9 6.6 327°12	3°1/ 9.8 18		
7 30	23 28.43	+10 19.5	2.179	2.926	15.7	21.2	7 30	23 22.36	+5 6.9	1.968	2.763	15.6	20.8
8 9	23 24.02	+10 32.7	2.077	2.917	13.2	21.0	8 9	23 19.39	+5 0.2	1.879	2.758	12.8	20.6
8 19	23 17.55	+10 27.0	1.995	2.908	10.4	20.8	8 19	23 14.45	+4 35.0	1.810	2.753	9.4	20.4
8 29	23 9.46	+10 1.3	1.935	2.898	7.4	20.6	8 29	23 7.99	+3 52.2	1.764	2.748	5.9	20.2
9 8	23 0.45	+9 17.2	1.902	2.887	5.2	20.4	9 8	23 0.72	+2 55.3	1.744	2.744	3.2	20.0
9 18	22 51.38	+8 18.2	1.897	2.875	5.6	20.4	9 18	22 53.50	+1 49.6	1.751	2.740	4.7	20.1
9 28	22 43.20	+7 10.3	1.920	2.863	8.3	20.6	9 28	22 47.22	+0 41.9	1.784	2.736	8.2	20.3
10 8	22 36.69	+6 0.6	1.969	2.850	11.4	20.7	10 8	22 42.60	-0 21.1	1.843	2.732	11.7	20.5
448679	2010 VU ₂₁₉		9 6.6 335°79	3°5/ 10.6 18			320070	2007 EZ ₄₃		9 6.6 29°61	1°9/ 8.9 18		
7 30	23 22.71	+6 58.8	2.252	3.027	14.4	21.3	7 30	23 20.71	+3 25.7	2.073	2.875	14.6	20.5
8 9	23 19.36	+6 56.1	2.163	3.027	11.9	21.1	8 9	23 17.91	+2 53.3	1.994	2.880	11.8	20.3
8 19	23 14.26	+6 36.3	2.094	3.026	9.0	20.9	8 19	23 13.31	+2 3.2	1.935	2.886	8.4	20.1
8 29	23 7.83	+5 59.9	2.049	3.026	5.9	20.7	8 29	23 7.39	+0 57.8	1.900	2.891	4.8	19.9
9 8	23 0.72	+5 9.7	2.030	3.025	3.6	20.6	9 8	23 0.83	-0 18.0	1.893	2.897	1.9	19.7
9 18	22 53.67	+4 10.0	2.039	3.025	4.5	20.6	9 18	22 54.38	-1 38.0	1.913	2.903	4.1	19.9
9 28	22 47.46	+3 6.6	2.075	3.024	7.4	20.8	9 28	22 48.83	-2 55.5	1.961	2.910	7.7	20.1
10 8	22 42.72	+2 5.4	2.138	3.024	10.4	21.0	10 8	22 44.82	-4 4.3	2.034	2.917	11.0	20.4
345465	2006 GU ₂₆		9 6.6 48°64	1°5/ 8.0 17			245563	2005 UF ₁₀₉		9 6.6 294°57	4°0/ 2.3 18		
7 30	23 23.68	+1 5.8	1.672	2.493	16.8	21.1	7 30	23 23.76	-14 13.8	2.048	2.900	13.0	20.6
8 9	23 20.62	+0 38.7	1.600	2.500	13.4	20.9	8 9	23 20.54	-15 15.4	1.956	2.880	10.1	20.4
8 19	23 15.34	-0 7.3	1.549	2.508	9.4	20.7	8 19	23 15.29	-16 24.4	1.887	2.859	7.0	20.2
8 29	23 8.39	-1 9.3	1.520	2.516	5.0	20.4	8 29	23 8.42	-17 34.5	1.843	2.838	4.4	20.0
9 8	23 0.64	-2 21.1	1.517	2.524	1.5	20.2	9 8	23 0.65	-18 38.7	1.827	2.818	4.6	20.0
9 18	22 53.08	-3 35.4	1.541	2.532	4.9	20.5	9 18	22 52.85	-19 30.3	1.837	2.797	7.5	20.1
9 28	22 46.70	-4 44.3	1.591	2.540	9.2	20.7	9 28	22 45.97	-20 4.4	1.873	2.776	10.9	20.3
10 8	22 42.28	-5 41.6	1.665	2.549	13.0	21.0	10 8	22 40.79	-20 18.7	1.931	2.756	14.1	20.4
182290	2001 KN ₆₈		9 6.6 23°78	0°9/ 5.8 17			210084	2006 QD ₄₅		9 6.6 37°13	5°3/ 31.9 18		
7 30	23 18.37	-1 57.6	1.032	1.907	21.2	19.1	7 30	23 21.64	-13 30.1	1.564	2.433	15.4	19.2
8 9	23 17.53	-3 7.5	0.984	1.918	16.5	18.9	8 9	23 19.21	-15 23.3	1.511	2.444	11.8	19.0
8 19	23 13.74	-4 43.3	0.952	1.931	11.0	18.6	8 19	23 14.46	-17 25.5	1.480	2.456	8.1	18.8
8 29	23 7.74	-6 36.4	0.942	1.945	5.0	18.3	8 29	23 7.99	-19 26.0	1.475	2.468	5.5	18.7
9 8	23 0.75	-8 33.3	0.954	1.960	1.6	18.2	9 8	23 0.74	-21 13.8	1.495	2.481	6.3	18.7
9 18	22 54.17	-10 20.0	0.989	1.977	7.4	18.6	9 18	22 53.75	-22 39.7	1.542	2.494	9.4	18.9
9 28	22 49.30	-11 44.9	1.046	1.995	12.8	19.0	9 28	22 48.05	-23 38.2	1.612	2.507	12.8	19.2
10 8	22 47.03	-12 42.0	1.123	2.014	17.3	19.3	10 8	22 44.40	-24 8.3	1.703	2.521	15.9	19.4
152802	1999 TC ₁₆₃		9 6.6 325°40	1°7/ 4.9 18			239134	2006 JX ₁₈		9 6.6 206°62	3°5/ 10.6 18		
7 30	23 23.34	-8 25.7	2.031	2.872	13.5	19.9	7 30	23 25.27	+7 53.6	2.337	3.098	14.3	21.6
8 9	23 20.05	-9 2.5	1.949	2.866	10.5	19.7	8 9	23 21.34	+7 40.5	2.238	3.093	11.9	21.4
8 19	23 14.83	-9 49.0	1.889	2.860	7.0	19.5	8 19	23 15.61	+7 9.3	2.160	3.087	9.0	21.2
8 29	23 8.13	-10 40.6	1.853	2.855	3.3	19.2	8 29	23 8.50	+6 20.6	2.106	3.081	5.9	21.0
9 8	23 0.68	-11 31.7	1.845	2.849	2.1	19.2	9 8	23 0.65	+5 17.2	2.079	3.074	3.6	20.9
9 18	22 53.32	-12 16.7	1.865	2.844	5.6	19.4	9 18	22 52.80	+4 3.8	2.081	3.066	4.5	20.9
9 28	22 46.91	-12 50.6	1.911	2.839	9.3	19.6	9 28	22 45.76	+2 46.6	2.111	3.058	7.4	21.1
10 8	22 42.15	-13 10.5	1.980	2.835	12.5	19.8	10 8	22 40.20	+1 32.0	2.168	3.049	10.5	21.3
232905	2004 XS ₁₀₁		9 6.6 115°07	5°4/ 31.4 18			429526	2011 BK ₈₀		9 6.6 81°32	0°7/ 5.9 17		
7 30	23 27.82	-19 7.8	2.132	2.981	12.7	20.4	7 30	23 26.87	-3 53.0	1.579	2.416	16.9	20.9
8 9	23 23.31	-20 33.4	2.081	2.999	9.9	20.2	8 9	23 23.11	-4 42.4	1.520	2.433	13.1	20.7
8 19	23 16.86	-22 0.2	2.053	3.016	7.2	20.1	8 19	23 16.99	-5 47.6	1.481	2.451	8.8	20.5
8 29	23 9.01	-23 20.8	2.051	3.032	5.5	20.0	8 29	23 9.15	-7 2.9	1.467	2.468	4.0	20.3
9 8	23 0.56	-24 27.8	2.077	3.048	6.1	20.1	9 8	23 0.57	-8 20.4	1.478	2.485	1.2	20.1
9 18	22 52.38	-25 16.3	2.131	3.064	8.4	20.3	9 18	22 52.31	-9 32.0	1.517	2.502	5.8	20.5
9 28	22 45.33	-25 43.3	2.210	3.079	11.0	20.4	9 28	22 45.43	-10 30.6	1.581	2.519	10.2	20.8
10 8	22 40.03	-25 49.2	2.311	3.094	13.3	20.6	10 8	22 40.67	-11 12.0	1.668	2.535	13.9	21.0
74171	1998 RA ₆		9 6.6 351°70	3°4/ 4.4 18			96932	1999 TG ₁₃₀		9 6.6 253°12	0°4/ 6.3 18		
7 30	23 21.19	-11 27.0	1.175	2.059	18.5	17.6	7 30	23 28.37	-5 31.0	2.060	2.882	14.1	

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
438544	2007 <i>TL</i> ₂₂₀		9 6.6	0°21	2°3/	4.7 18	382353	2013 <i>TQ</i> ₇₆		9 6.6	274°70	1°6/	7.9 18
7 30	23 27.62	-10 32.3	1.781	2.626	14.9	20.7	7 30	23 27.36	-0 23.9	1.625	2.447	17.2	21.3
8 9	23 23.62	-10 58.1	1.707	2.626	11.6	20.5	8 9	23 23.91	-0 27.7	1.530	2.431	13.9	21.0
8 19	23 17.34	-11 32.0	1.654	2.626	7.7	20.2	8 19	23 17.90	-0 48.6	1.454	2.414	9.8	20.8
8 29	23 9.35	-12 8.9	1.625	2.626	3.8	20.0	8 29	23 9.80	-1 25.2	1.401	2.397	5.3	20.5
9 8	23 0.53	-12 42.8	1.623	2.626	2.7	19.9	9 8	23 0.48	-2 13.0	1.373	2.379	1.6	20.2
9 18	22 51.90	-13 8.2	1.648	2.626	6.4	20.2	9 18	22 51.06	-3 5.7	1.372	2.362	5.5	20.4
9 28	22 44.47	-13 21.0	1.699	2.627	10.3	20.4	9 28	22 42.77	-3 56.0	1.396	2.344	10.3	20.6
10 8	22 39.03	-13 19.1	1.773	2.627	13.8	20.6	10 8	22 36.64	-4 37.2	1.443	2.327	14.6	20.9
107336	2001 <i>CA</i> ₂₀		9 6.6	181°20	1°1/	5.6 18	257084	2008 <i>GX</i> ₁		9 6.6	58°36	1°1/	5.6 18
7 30	23 29.50	-6 10.5	1.795	2.626	15.5	21.4	7 30	23 27.55	-8 30.3	2.092	2.923	13.5	20.1
8 9	23 25.09	-6 47.3	1.717	2.627	12.1	21.2	8 9	23 23.15	-8 42.6	2.017	2.928	10.5	19.9
8 19	23 18.35	-7 36.8	1.659	2.627	8.1	21.0	8 19	23 16.82	-9 2.4	1.965	2.934	7.0	19.7
8 29	23 9.85	-8 34.2	1.627	2.627	3.7	20.7	8 29	23 9.06	-9 26.2	1.938	2.939	3.3	19.5
9 8	23 0.46	-9 33.0	1.621	2.627	1.6	20.6	9 8	23 0.64	-9 49.6	1.939	2.945	1.5	19.4
9 18	22 51.20	-10 26.5	1.643	2.626	5.8	20.8	9 18	22 52.41	-10 8.5	1.968	2.950	5.0	19.6
9 28	22 43.14	-11 8.8	1.692	2.624	10.0	21.1	9 28	22 45.22	-10 19.2	2.024	2.956	8.6	19.9
10 8	22 37.10	-11 36.1	1.765	2.622	13.7	21.3	10 8	22 39.73	-10 19.6	2.105	2.962	11.8	20.1
176055	2000 <i>TM</i> ₄₆		9 6.6	82°07	0°2/	6.4 18	418968	2009 <i>HX</i> ₃₄		9 6.6	14°03	3°5/	4.4 18
7 30	23 24.09	-4 4 0.6	2.093	2.918	13.8	20.2	7 30	23 32.85	-12 43.0	1.367	2.224	17.9	20.8
8 9	23 20.49	-4 32.2	2.017	2.923	10.8	20.0	8 9	23 28.41	-13 4.9	1.300	2.225	14.0	20.6
8 19	23 15.04	-5 15.8	1.962	2.928	7.3	19.8	8 19	23 20.95	-13 34.3	1.251	2.225	9.5	20.3
8 29	23 8.22	-6 7.7	1.933	2.933	3.4	19.6	8 29	23 11.19	-14 4.6	1.226	2.225	5.0	20.1
9 8	23 0.73	-7 3 0	1.930	2.938	0.7	19.4	9 8	23 0.31	-14 28.0	1.225	2.226	4.0	20.0
9 18	22 53.39	-7 56.0	1.956	2.943	4.6	19.7	9 18	22 49.73	-14 38.2	1.249	2.226	8.1	20.3
9 28	22 47.00	-8 41.7	2.010	2.947	8.3	19.9	9 28	22 40.86	-14 31.3	1.298	2.227	12.7	20.6
10 8	22 42.21	-9 16.0	2.088	2.952	11.6	20.2	10 8	22 34.70	-14 6.5	1.368	2.227	16.8	20.8
193399	2000 <i>WG</i> ₁₅		9 6.6	249°47	5°9/	12.3 18	479736	2014 <i>DA</i> ₁₄₂		9 6.6	236°83	1°8/	8.4 18
7 30	23 26.03	+11 45.8	2.046	2.794	16.5	20.8	7 30	23 26.67	+1 35.6	2.156	2.951	14.4	22.3
8 9	23 22.35	+12 7.8	1.944	2.782	14.1	20.6	8 9	23 22.66	+1 21.0	2.054	2.938	11.6	22.1
8 19	23 16.55	+12 9.6	1.860	2.769	11.3	20.4	8 19	23 16.65	+0 50.8	1.974	2.924	8.3	21.9
8 29	23 9.05	+11 49.4	1.799	2.756	8.3	20.2	8 29	23 9.08	+0 6.9	1.918	2.910	4.6	21.6
9 8	23 0.58	+11 8.1	1.762	2.742	6.1	20.0	9 8	23 0.63	-0 47.3	1.890	2.895	1.8	21.4
9 18	22 52.02	+10 9.0	1.752	2.728	6.3	20.0	9 18	22 52.13	-1 46.6	1.890	2.879	4.4	21.6
9 28	22 44.36	+8 58.3	1.769	2.714	8.8	20.1	9 28	22 44.48	-2 45.0	1.919	2.863	8.2	21.8
10 8	22 38.42	+7 43.9	1.811	2.699	11.9	20.3	10 8	22 38.46	-3 36.9	1.972	2.847	11.7	22.0
91983	1999 <i>VY</i> ₁₀₃		9 6.6	10°19	1°9/	5.1 18	321460	2009 <i>RR</i> ₂₇		9 6.6	3°53	2°0/	7.9 18
7 30	23 21.20	-8 22.8	1.391	2.258	17.1	19.2	7 30	23 29.96	-3 17.9	1.647	2.473	16.8	18.7
8 9	23 19.09	-8 48.6	1.331	2.263	13.3	19.0	8 9	23 25.62	-2 28.8	1.570	2.473	13.4	18.5
8 19	23 14.49	-9 26.3	1.292	2.269	8.8	18.7	8 19	23 18.81	-1 49.8	1.513	2.473	9.5	18.3
8 29	23 8.05	-10 10.2	1.274	2.277	4.1	18.5	8 29	23 10.11	-1 20.3	1.480	2.475	5.2	18.0
9 8	23 0.76	-10 53.0	1.281	2.286	2.4	18.4	9 8	23 0.48	-0 58.6	1.472	2.477	2.0	17.8
9 18	22 53.77	-11 27.8	1.312	2.297	6.7	18.7	9 18	22 51.02	-0 42.1	1.492	2.481	5.2	18.1
9 28	22 48.17	-11 49.0	1.367	2.308	11.1	19.0	9 28	22 42.88	-0 27.6	1.537	2.486	9.4	18.3
10 8	22 44.76	-11 53.5	1.444	2.322	15.0	19.3	10 8	22 36.91	-0 11.5	1.606	2.491	13.3	18.6
201151	2002 <i>JD</i> ₁₄₇		9 6.6	358°11	7°5/	30.9 18	220292	2003 <i>CZ</i> ₈		9 6.6	259°27	2°6/	9.0 18
7 30	23 27.97	-22 24.7	1.658	2.522	15.0	19.8	7 30	23 26.71	+3 21.2	1.884	2.681	16.1	20.8
8 9	23 24.19	-23 40.3	1.597	2.521	12.0	19.6	8 9	23 23.08	+3 12.1	1.779	2.662	13.2	20.5
8 19	23 17.86	-24 55.5	1.559	2.520	9.1	19.5	8 19	23 17.18	+2 44.3	1.694	2.642	9.6	20.3
8 29	23 9.63	-26 0.9	1.544	2.520	7.5	19.4	8 29	23 9.43	+1 58.7	1.633	2.621	5.7	20.0
9 8	23 0.51	-26 47.7	1.554	2.520	8.3	19.4	9 8	23 0.57	+0 58.7	1.597	2.600	2.7	19.8
9 18	22 51.66	-27 10.1	1.589	2.520	10.8	19.6	9 18	22 51.57	-0 10.0	1.589	2.579	5.0	19.9
9 28	22 44.24	-27 5.5	1.647	2.521	13.8	19.8	9 28	22 43.51	-1 19.9	1.609	2.557	9.2	20.1
10 8	22 39.07	-26 35.7	1.724	2.521	16.6	20.0	10 8	22 37.29	-2 23.8	1.652	2.534	13.2	20.3
264960	2002 <i>XG</i> ₅₁		9 6.6	164°94	5°5/	1.2 18	91489	1999 <i>RL</i> ₁₂₁		9 6.6	15°27	3°3/	10.3 18
7 30	23 29.84	-18 13.7	1.930	2.779	13.8	20.8	7 30	23 21.31	+6 20.8	1.923	2.715	16.0	20.0
8 9	23 25.22	-19 28.8	1.865	2.784	10.8	20.7	8 9	23 18.58	+6 8.0	1.842	2.717	13.1	19.8
8 19	23 18.35	-20 46.9	1.823	2.788	7.7	20.5	8 19	23 13.90	+5 35.3	1.780	2.720	9.8	19.6
8 29	23 9.82	-22 0.2	1.806	2.792	5.6	20.4	8 29	23 7.75	+4 43.6	1.741	2.723	6.2	19.4
9 8	23 0.49	-23 0.8	1.817	2.795	6.2	20.4	9 8	23 0.86	+3 37.0	1.728	2.727	3.5	19.2
9 18	22 51.39	-23 42.6	1.854	2.797	8.8	20.6	9 18	22 54.07	+2 21.4	1.742	2.730	4.7	19.3
9 28	22 43.51	-24 2.3	1.917	2.799	11.8	20.8	9 28	22 48.26	+1 4.0	1.782	2.735	8.1	19.5
10 8	22 37.61	-24 0.0	2.002	2.800	14.6	21.0	10 8	22 44.13	-0 7.9	1.848	2.739	11.5	19.7
475347	2006 <i>BG</i> ₁₁₁		9 6.6	111°21	1°8/	8.1 16	97160	1999 <i>VE</i> ₁₈₂		9 6.6	146°19	2°4/	4.2 18
7 30	23 31.38	-0 39.1	1.897	2.701	15.7	21.5	7 30	23 27.66	-10 43.4	2.131	2.967	13.2	20.3
8 9	23 26.29	-0 25.7	1.823	2.713	12.6	21.3	8 9	23 23.23	-11 28.0	2.060	2.974	10.2	20.1
8 19	23 19.01	-0 25.4	1.770	2.724	8.9	21.1	8 19	23 16.87	-12 19.8	2.011	2.981	6.8	19.9
8 29	23 10.11	-0 36.7	1.742	2.735	4.8	20.9	8 29	23 9.09	-13 13.9	1.988	2.987	3.4	19.7
9 8	23 0.45	-0 56.3	1.741	2.746	1.8	20.7	9 8	23 0.66	-14 4.3	1.993	2.993	2.9	19.7
9 18	22 51.02	-1 20.1	1.768	2.757	4.7	20.9	9 18	22 52.40	-14 45.9	2.026	2.999	5.9	19.9
9 28	22 42.80	-1 43.2	1.823	2.767	8.5	21.2	9 28	22 45.18	-15 14.6	2.087	3.004	9.3	20.1
10 8	22 36.53	-2 1.4	1.902	2.777	12.0	21.4	10 8	22 39.65	-15 28.3	2.171	3.009	12.2	20.3
405730	2005 <i>XM</i> ₆₄		9 6.6	248°29	0°7/	7.5 17	474614	2004 <i>TZ</i> ₂₇		9 6.6	79°77	6°6/	2.3 16
7 30	23 26.44	-2 24.7	2.944										

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
159108	2004 VA ₉	9 6.7	11°56'	2°9'	9.1	18	243714	2000 FA ₆₅	9 6.7	75°36'	0°3'	7.0	18
7 30	23 20.49	+ 3 42.5	1.321	2.155	19.7	18.7	7 30	23 25.20	- 2 3.4	1.882	2.704	15.2	21.0
8 9	23 18.75	+ 3 28.4	1.253	2.158	16.0	18.4	8 9	23 21.51	- 2 34.8	1.814	2.718	11.9	20.8
8 19	23 14.44	+ 2 49.1	1.203	2.161	11.6	18.2	8 19	23 15.81	- 3 20.6	1.768	2.732	8.1	20.6
8 29	23 8.12	+ 1 46.7	1.173	2.166	6.7	17.9	8 29	23 8.64	- 4 17.2	1.747	2.746	3.9	20.4
9 8	23 0.82	+ 0 27.7	1.167	2.171	2.9	17.7	9 8	23 0.80	- 5 18.7	1.752	2.760	0.6	20.1
9 18	22 53.70	- 0 58.8	1.185	2.178	5.6	17.9	9 18	22 53.20	- 6 19.0	1.785	2.774	4.7	20.5
9 28	22 47.98	- 2 22.2	1.227	2.185	10.3	18.2	9 28	22 46.70	- 7 12.0	1.845	2.788	8.6	20.7
10 8	22 44.55	- 3 33.4	1.292	2.193	14.7	18.5	10 8	22 41.98	- 7 53.2	1.930	2.801	12.1	21.0
358711	2008 AL ₁₀₆	9 6.7	207°99'	0°0'	6.5	18	117363	2004 XX ₁₀₄	9 6.7	340°63'	10°6'	27.0	18
7 30	23 26.56	- 4 21.7	2.209	3.027	13.4	22.0	7 30	23 24.05	-26 54.1	1.439	2.318	16.0	18.5
8 9	23 22.39	- 4 37.5	2.123	3.024	10.5	21.8	8 9	23 21.75	-28 54.2	1.385	2.310	13.3	18.3
8 19	23 16.34	- 5 3 8	2.058	3.021	7.1	21.6	8 19	23 16.60	-30 51.2	1.351	2.303	11.2	18.2
8 29	23 8.88	- 5 37.8	2.019	3.018	3.4	21.4	8 29	23 9.21	-32 32.2	1.340	2.296	10.6	18.1
9 8	23 0.71	- 6 15.5	2.008	3.015	0.5	21.1	9 8	23 0.72	-33 45.1	1.352	2.291	11.9	18.2
9 18	22 52.61	- 6 52.1	2.025	3.012	4.4	21.4	9 18	22 52.44	-34 22.7	1.386	2.286	14.4	18.3
9 28	22 45.43	- 7 23.2	2.071	3.008	8.1	21.6	9 28	22 45.74	-34 22.7	1.439	2.281	17.2	18.5
10 8	22 39.83	- 7 45.3	2.141	3.005	11.4	21.8	10 8	22 41.57	-33 48.3	1.509	2.278	19.8	18.7
97098	1999 VF ₆₆	9 6.7	317°97'	10°8'	28.1	18	185937	2000 WM ₁₆	9 6.7	303°95'	2°1'	4.6	18
7 30	23 30.96	-30 54.2	1.599	2.457	15.7	18.9	7 30	23 24.45	- 9 42.5	1.968	2.811	13.8	20.3
8 9	23 26.94	-32 16.1	1.538	2.446	13.4	18.8	8 9	23 21.16	-10 16.5	1.873	2.792	10.8	20.1
8 19	23 19.98	-33 30.4	1.498	2.435	11.5	18.6	8 19	23 15.78	-10 59.9	1.800	2.773	7.2	19.8
8 29	23 10.74	-34 25.8	1.479	2.425	10.8	18.6	8 29	23 8.75	-11 48.0	1.753	2.753	3.5	19.6
9 8	23 0.42	-34 53.0	1.484	2.414	11.8	18.6	9 8	23 0.79	-12 35.1	1.732	2.734	2.6	19.5
9 18	22 50.40	-34 46.7	1.512	2.405	13.9	18.7	9 18	22 52.80	-13 15.2	1.738	2.716	6.1	19.6
9 28	22 42.04	-34 6.4	1.560	2.395	16.5	18.8	9 28	22 45.76	-13 43.3	1.770	2.697	10.0	19.8
10 8	22 36.31	-32 56.4	1.626	2.386	18.9	19.0	10 8	22 40.46	-13 56.2	1.826	2.679	13.5	20.0
382598	2002 EG ₉₆	9 6.7	201°23'	0°4'	6.2	18	412727	2014 OX ₃₄₃	9 6.7	9°12'	2°1'	8.6	18
7 30	23 26.75	- 4 17.9	2.088	2.908	13.9	22.2	7 30	23 26.02	+ 0 18.3	2.063	2.868	14.6	20.7
8 9	23 22.67	- 4 53.4	2.001	2.905	10.9	22.0	8 9	23 22.08	+ 0 35.6	1.981	2.869	11.7	20.5
8 19	23 16.62	- 5 41.5	1.937	2.902	7.4	21.8	8 19	23 16.21	+ 0 40.3	1.919	2.871	8.4	20.3
8 29	23 9.05	- 6 38.4	1.898	2.898	3.4	21.5	8 29	23 8.86	+ 0 33.4	1.882	2.873	4.8	20.1
9 8	23 0.70	- 7 38.7	1.886	2.893	0.9	21.3	9 8	23 0.78	+ 0 17.7	1.871	2.875	2.2	19.9
9 18	22 52.41	- 8 36.7	1.903	2.888	4.9	21.6	9 18	22 52.81	- 0 3.3	1.888	2.877	4.4	20.1
9 28	22 45.08	- 9 26.6	1.948	2.883	8.7	21.8	9 28	22 45.81	- 0 25.3	1.932	2.880	7.9	20.3
10 8	22 39.42	-10 4 3	2.017	2.877	12.1	22.0	10 8	22 40.48	- 0 43.9	2.002	2.883	11.2	20.5
1000	Piazzia	9 6.7	73°61'	4°1'	10.7	18 R	455027	2015 TQ ₃₃₅	9 6.7	56°46'	4°4'	2.1	18
7 30	23 31.56	+ 6 24.0	2.313	3.071	14.6	15.6	7 30	23 26.72	-18 0.9	2.195	3.043	12.4	20.9
8 9	23 25.96	+ 7 3 9	2.246	3.096	12.0	15.4	8 9	23 22.49	-18 45.0	2.130	3.049	9.6	20.7
8 19	23 18.55	+ 7 29.4	2.199	3.122	9.1	15.3	8 19	23 16.36	-19 30.7	2.087	3.054	6.8	20.5
8 29	23 9.85	+ 7 40.2	2.177	3.147	6.2	15.2	8 29	23 8.88	-20 12.3	2.071	3.060	4.7	20.4
9 8	23 0.59	+ 7 37.7	2.183	3.172	4.2	15.1	9 8	23 0.79	-20 44.3	2.082	3.066	4.9	20.4
9 18	22 51.57	+ 7 24.4	2.218	3.197	4.9	15.2	9 18	22 52.91	-21 2.4	2.120	3.072	7.2	20.6
9 28	22 43.60	+ 7 4 3	2.281	3.221	7.3	15.4	9 28	22 46.08	-21 4.2	2.184	3.078	10.0	20.8
10 8	22 37.26	+ 6 42.0	2.370	3.246	10.0	15.6	10 8	22 40.91	-20 49.6	2.271	3.084	12.6	21.0
432639	2010 VC ₁₈₅	9 6.7	286°18'	1°1'	8.6	15	168287	2007 RG ₁₄₅	9 6.7	24°44'	1°8'	7.8	18
7 30	23 18.12	+ 0 32.2	4.347	5.128	7.9	21.3	7 30	23 25.30	- 1 15.2	1.001	1.866	22.4	19.1
8 9	23 14.94	+ 0 26.5	4.246	5.122	6.3	21.2	8 9	23 23.17	- 1 7.5	0.949	1.874	17.9	18.9
8 19	23 10.88	+ 0 14.0	4.170	5.116	4.5	21.0	8 19	23 17.73	- 1 22.5	0.912	1.883	12.5	18.6
8 29	23 6.19	- 0 4 3	4.121	5.110	2.5	20.9	8 29	23 9.77	- 1 57.0	0.894	1.893	6.5	18.3
9 8	23 1.17	- 0 26.8	4.101	5.104	1.1	20.8	9 8	23 0.65	- 2 43.9	0.898	1.904	1.8	18.1
9 18	22 56.18	- 0 51.5	4.110	5.099	2.3	20.9	9 18	22 51.95	- 3 34.0	0.924	1.917	6.6	18.4
9 28	22 51.56	- 1 16.4	4.150	5.093	4.2	21.0	9 28	22 45.21	- 4 17.6	0.972	1.930	12.3	18.8
10 8	22 47.65	- 1 39.2	4.217	5.087	6.1	21.1	10 8	22 41.44	- 4 47.4	1.039	1.944	17.1	19.1
274998	2009 TA ₂₆	9 6.7	6°19'	1°0'	7.4	17	112593	2002 PS ₅₇	9 6.7	7°61'	3°7'	9.4	16
7 30	23 24.50	- 1 14.6	1.363	2.206	18.8	20.8	7 30	23 13.95	+ 3 41.0	0.879	1.755	23.9	18.4
8 9	23 21.86	- 1 30.2	1.292	2.206	14.9	20.5	8 9	23 14.62	+ 3 43.2	0.827	1.755	19.5	18.1
8 19	23 16.55	- 2 5 4	1.240	2.206	10.4	20.2	8 19	23 12.14	+ 3 12.7	0.789	1.758	14.2	17.8
8 29	23 9.15	- 2 57.0	1.209	2.208	5.3	20.0	8 29	23 7.20	+ 2 11.2	0.768	1.764	8.4	17.5
9 8	23 0.70	- 3 58.2	1.202	2.209	1.0	19.7	9 8	23 1.04	+ 0 47.0	0.767	1.772	3.8	17.3
9 18	22 52.42	- 5 0 9	1.220	2.211	5.8	20.0	9 18	22 55.18	- 0 47.1	0.786	1.782	6.7	17.5
9 28	22 45.57	- 5 56.5	1.263	2.214	10.8	20.3	9 28	22 51.11	- 2 16.4	0.826	1.794	12.2	17.9
10 8	22 41.09	- 6 38.3	1.327	2.217	15.2	20.6	10 8	22 49.84	- 3 28.9	0.884	1.808	17.3	18.2
440186	2004 CE ₉₃	9 6.7	198°10'	0°4'	7.1	18	102746	1999 VK ₁₁₃	9 6.7	36°36'	7°0'	1.7	18
7 30	23 28.04	- 3 16.2	2.529	3.331	12.3	22.1	7 30	23 28.69	-18 10.4	1.237	2.115	18.2	19.0
8 9	23 23.30	- 3 26.4	2.436	3.328	9.7	21.9	8 9	23 25.34	-19 20.3	1.188	2.123	14.2	18.8
8 19	23 16.84	- 3 46.2	2.366	3.324	6.7	21.7	8 19	23 18.93	-20 33.6	1.158	2.132	10.2	18.6
8 29	23 9.11	- 4 13.5	2.323	3.320	3.3	21.5	8 29	23 10.25	-21 39.4	1.151	2.141	7.3	18.5
9 8	23 0.71	- 4 44.9	2.308	3.315	0.5	21.2	9 8	23 0.59	-22 26.9	1.166	2.151	7.8	18.6
9 18	22 52.37	- 5 16.7	2.323	3.310	3.9	21.5	9 18	22 51.42	-22 49.0	1.205	2.161	11.0	18.8
9 28	22 44.83	- 5 44.9	2.367	3.304	7.3	21.7	9 28	22 44.11	-22 42.9	1.266	2.172	14.9	19.0
10 8	22 38.71	- 6 6.4	2.436	3.297	10.3	21.9	10 8	22 39.55	-22 10.6	1.346	2.183	18.3	19.3
330343	2006 UE ₃₆₀	9 6.7	85°39'	5°1'	3.1	17	107522	2001 DY ₆₀	9 6.7	35°94'	2°9'	8.5	18
7 30	23 35.21	-16 54.1	1.491	2.344	16.9								

EPHEMERIDES

9 6.7

9 6.7

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
255416	2005 <i>XT</i> ₂₈		9 6.7 260°22	0°7/ 7.4 18			400718	2009 <i>SZ</i> ₆₂		9 6.7 244°76	0°2/ 6.4 18		
7 30	23 24.80	- 2 9.6	2.310	3.120	13.1	20.9	7 30	23 26.29	- 5 48.0	2.388	3.206	12.5	21.3
8 9	23 21.01	- 2 22.0	2.216	3.112	10.4	20.7	8 9	23 22.05	- 5 57.3	2.300	3.203	9.8	21.1
8 19	23 15.43	- 2 45.8	2.144	3.104	7.2	20.4	8 19	23 16.08	- 6 15.1	2.235	3.199	6.6	20.9
8 29	23 8.50	- 3 19.0	2.098	3.095	3.6	20.2	8 29	23 8.80	- 6 38.7	2.196	3.195	3.1	20.6
9 8	23 0.85	- 3 57.8	2.079	3.086	0.7	20.0	9 8	23 0.86	- 7 4.6	2.184	3.191	0.6	20.4
9 18	22 53.22	- 4 38.0	2.089	3.078	4.1	20.2	9 18	22 53.00	- 7 28.8	2.202	3.187	4.2	20.7
9 28	22 46.41	- 5 14.9	2.127	3.069	7.7	20.4	9 28	22 45.98	- 7 47.8	2.247	3.183	7.7	20.9
10 8	22 41.07	- 5 44.6	2.190	3.060	10.9	20.6	10 8	22 40.42	- 7 58.8	2.318	3.179	10.7	21.1
34419	Corning		9 6.7 84°79	2°7/ 9.1 18			476795	2008 <i>UN</i> ₁₅₈		9 6.7 327°77	5°0/ 10.1 18		
7 30	23 28.31	+ 2 57.3	1.725	2.528	17.1	18.8	7 30	23 25.37	+ 4 33.8	1.459	2.273	19.2	21.2
8 9	23 24.12	+ 2 58.0	1.658	2.544	13.8	18.6	8 9	23 22.66	+ 5 18.0	1.370	2.258	16.0	20.9
8 19	23 17.67	+ 2 40.6	1.611	2.559	10.0	18.4	8 19	23 17.25	+ 5 43.4	1.298	2.244	12.1	20.7
8 29	23 9.57	+ 2 6.7	1.586	2.575	5.8	18.2	8 29	23 9.63	+ 5 48.4	1.248	2.230	8.1	20.4
9 8	23 0.71	+ 1 20.5	1.588	2.590	2.8	18.1	9 8	23 0.71	+ 5 34.2	1.221	2.217	5.1	20.2
9 18	22 52.11	+ 0 27.9	1.616	2.606	4.9	18.2	9 18	22 51.70	+ 5 4.5	1.218	2.205	6.5	20.2
9 28	22 44.78	- 0 24.5	1.671	2.621	8.8	18.5	9 28	22 43.93	+ 4 26.1	1.239	2.194	10.6	20.4
10 8	22 39.45	- 1 10.4	1.751	2.636	12.4	18.8	10 8	22 38.48	+ 3 47.0	1.283	2.184	14.8	20.7
317996	2004 <i>BH</i> ₁₃₆		9 6.7 19°61	2°8/ 3.2 18			166100	2002 <i>CK</i> ₁₅₈		9 6.7 269°15	1°0/ 5.9 18		
7 30	23 22.58	-12 53.4	2.408	3.251	11.6	20.3	7 30	23 27.31	- 4 59.4	1.433	2.279	17.9	20.6
8 9	23 19.15	-13 42.1	2.334	3.253	8.9	20.1	8 9	23 24.16	- 5 34.1	1.349	2.268	14.1	20.3
8 19	23 14.09	-14 36.2	2.284	3.255	6.0	19.9	8 19	23 18.25	- 6 26.1	1.285	2.256	9.6	20.0
8 29	23 7.82	-15 30.8	2.260	3.257	3.4	19.8	8 29	23 10.09	- 7 30.8	1.243	2.245	4.5	19.7
9 8	23 0.98	-16 20.7	2.264	3.259	3.3	19.8	9 8	23 0.67	- 8 40.3	1.227	2.233	1.5	19.5
9 18	22 54.26	-17 1.3	2.296	3.261	5.8	19.9	9 18	22 51.25	- 9 45.6	1.235	2.221	6.7	19.8
9 28	22 48.37	-17 29.0	2.354	3.264	8.7	20.1	9 28	22 43.18	-10 38.4	1.269	2.210	11.8	20.1
10 8	22 43.89	-17 42.0	2.437	3.266	11.3	20.3	10 8	22 37.52	-11 13.0	1.324	2.198	16.3	20.3
9560	Anguita		9 6.7 130°48	0°5/ 7.1 18			99324	2001 <i>UJ</i> ₂		9 6.7 240°41	1°8/ 6.0 17		
7 30	23 30.76	- 2 46.7	1.404	2.239	18.8	17.4	7 30	23 46.00	-12 10.0	1.237	2.077	20.5	19.2
8 9	23 26.67	- 2 58.8	1.334	2.244	14.9	17.2	8 9	23 39.43	-11 35.8	1.156	2.069	16.3	18.9
8 19	23 19.76	- 3 28.0	1.283	2.249	10.2	17.0	8 19	23 28.96	-11 4.9	1.093	2.062	11.2	18.6
8 29	23 10.69	- 4 10.8	1.254	2.254	5.0	16.7	8 29	23 15.29	-10 33.0	1.053	2.053	5.4	18.2
9 8	23 0.55	- 5 0.8	1.251	2.258	0.7	16.4	9 8	22 59.88	- 9 55.3	1.039	2.045	2.2	18.0
9 18	22 50.64	- 5 50.4	1.273	2.262	6.0	16.8	9 18	22 44.66	- 9 8.9	1.051	2.036	7.9	18.3
9 28	22 42.29	- 6 32.3	1.320	2.266	11.0	17.1	9 28	22 31.58	- 8 12.7	1.089	2.026	13.7	18.6
10 8	22 36.44	- 7 0.9	1.390	2.270	15.3	17.3	10 8	22 22.02	- 7 7.4	1.148	2.017	18.7	18.9
347901	2002 <i>VD</i> ₅		9 6.7 44°90	1°6/ 8.2 18			20181	1996 <i>YC</i> ₂		9 6.7 326°91	4°7/ 9.4 18		
7 30	23 24.33	+ 0 53.4	1.891	2.703	15.5	20.5	7 30	23 26.01	+ 2 21.1	1.196	2.034	21.2	17.8
8 9	23 20.96	+ 0 36.8	1.811	2.706	12.4	20.3	8 9	23 23.73	+ 3 10.4	1.113	2.018	17.5	17.5
8 19	23 15.55	+ 0 3.9	1.752	2.709	8.7	20.1	8 19	23 18.33	+ 3 40.5	1.047	2.003	13.1	17.2
8 29	23 8.60	- 0 43.0	1.717	2.711	4.7	19.8	8 29	23 10.27	+ 3 49.5	1.000	1.989	8.3	16.9
9 8	23 0.87	- 1 39.3	1.709	2.714	1.6	19.6	9 8	23 0.64	+ 3 38.9	0.975	1.976	4.8	16.6
9 18	22 53.27	- 2 39.2	1.727	2.718	4.5	19.9	9 18	22 50.89	+ 3 13.0	0.974	1.964	7.1	16.7
9 28	22 46.70	- 3 36.0	1.773	2.721	8.5	20.1	9 28	22 42.64	+ 2 39.7	0.994	1.953	12.0	17.0
10 8	22 41.89	- 4 24.3	1.843	2.724	12.1	20.3	10 8	22 37.19	+ 2 7.6	1.035	1.942	16.9	17.2
511733	2015 <i>DJ</i> ₄₂		9 6.7 67°43	5°2/ 2.2 17			389571	2010 <i>VZ</i> ₂₀₂		9 6.7 341°06	1°7/ 9.8 17		
7 30	23 27.69	-15 1.4	1.501	2.365	16.3	21.2	7 30	23 17.45	+ 3 53.3	4.193	4.960	8.4	21.0
8 9	23 24.09	-16 13.3	1.444	2.372	12.6	21.0	8 9	23 14.49	+ 3 45.1	4.096	4.959	6.8	20.8
8 19	23 17.88	-17 31.9	1.407	2.380	8.7	20.8	8 19	23 10.64	+ 3 28.6	4.022	4.957	5.0	20.7
8 29	23 9.74	-18 48.1	1.394	2.388	5.6	20.7	8 29	23 6.13	+ 3 4.6	3.975	4.956	3.1	20.6
9 8	23 0.71	-19 52.4	1.406	2.396	5.9	20.7	9 8	23 1.31	+ 2 34.8	3.956	4.955	1.7	20.5
9 18	22 52.01	-20 37.2	1.444	2.404	9.2	20.9	9 18	22 56.52	+ 2 1.3	3.967	4.954	2.4	20.5
9 28	22 44.79	-20 58.3	1.505	2.411	12.9	21.2	9 28	22 52.12	+ 1 26.5	4.007	4.952	4.3	20.7
10 8	22 39.90	-20 55.4	1.587	2.419	16.2	21.4	10 8	22 48.45	+ 0 52.8	4.075	4.951	6.1	20.8
205138	1999 <i>VP</i> ₂₀₁		9 6.7 313°69	0°7/ 6.2 18			400927	2010 <i>UD</i> ₂₈		9 6.7 178°66	4°3/ 12.2 18		
7 30	23 26.30	- 6 30.4	1.554	2.400	16.7	19.8	7 30	23 22.73	+10 52.0	2.517	3.262	13.8	21.0
8 9	23 23.22	- 6 37.4	1.462	2.380	13.2	19.6	8 9	23 19.27	+10 50.6	2.424	3.262	11.6	20.8
8 19	23 17.54	- 6 56.7	1.389	2.361	9.0	19.3	8 19	23 14.20	+10 31.7	2.351	3.263	9.1	20.6
8 29	23 9.73	- 7 24.9	1.340	2.341	4.2	19.0	8 29	23 7.93	+ 9 55.3	2.302	3.263	6.5	20.5
9 8	23 0.69	- 7 56.5	1.316	2.323	1.2	18.7	9 8	23 1.03	+ 9 3.4	2.279	3.263	4.5	20.4
9 18	22 51.58	- 8 25.2	1.317	2.304	6.2	19.0	9 18	22 54.18	+ 7 59.7	2.284	3.263	4.7	20.4
9 28	22 43.67	- 8 45.1	1.343	2.287	11.1	19.2	9 28	22 48.08	+ 6 49.6	2.317	3.263	6.9	20.5
10 8	22 37.98	- 8 51.8	1.391	2.269	15.4	19.4	10 8	22 43.31	+ 5 39.0	2.377	3.262	9.5	20.7
25505	1999 <i>XQ</i> ₉₅		9 6.7 354°53	11°4/ 13.8 18			65495	2200 <i>P-L</i>		9 6.7 12°74	3°0/ 8.7 18		
7 30	23 26.94	+13 29.7	1.219	2.005	23.7	16.6	7 30	23 21.03	+ 0 40.5	1.047	1.909	21.9	18.0
8 9	23 24.43	+15 21.7	1.147	2.000	20.8	16.3	8 9	23 19.72	+ 1 1.1	0.992	1.914	17.6	17.7
8 19	23 18.76	+16 49.2	1.089	1.997	17.5	16.1	8 19	23 15.37	+ 0 58.4	0.954	1.921	12.6	17.5
8 29	23 10.44	+17 44.6	1.049	1.994	14.1	15.9	8 29	23 8.69	+ 0 34.0	0.934	1.930	7.1	17.2
9 8	23 0.58	+18 3.9	1.028	1.992	11.8	15.8	9 8	23 0.92	- 0 6.5	0.936	1.941	3.0	17.0
9 18	22 50.67	+17 47.5	1.029	1.992	11.6	15.8	9 18	22 53.49	- 0 54.7	0.960	1.954	6.3	17.3
9 28	22 42.34	+17 2.4	1.051	1.992	13.7	15.9	9 28	22 47.80	- 1 41.0	1.006	1.968	11.5	17.6
10 8	22 36.86	+16 0.4	1.093	1.994	16.8	16.1	10 8	22 44.82	- 2 17.2	1.072	1.984	16.1	17.9
416011	2002 <i>CB</i> ₆₇		9 6.7 194°59	0°7/ 7.3 17			423386	2005 <i>JL</i> ₁₂₁		9 6.7 124°72	2°6/ 4.3 17		

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
364625	2007 <i>TE</i> ₂₄		9 6.7 348°65	7°6/ 1.8 17			293552	2007 <i>HD</i> ₃₁		9 6.7 270°46	4°3/ 2.2 18		
7 30	23 18.19	-16 1.0	0.863	1.775	20.8	18.9	7 30	23 27.04	-18 0.4	2.316	3.161	11.9	20.4
8 9	23 18.39	-17 7.1	0.806	1.762	16.4	18.6	8 9	23 22.78	-18 42.0	2.237	3.154	9.3	20.3
8 19	23 15.02	-18 23.4	0.766	1.751	11.6	18.3	8 19	23 16.65	-19 25.4	2.181	3.147	6.6	20.1
8 29	23 8.73	-19 37.0	0.744	1.741	7.9	18.1	8 29	23 9.12	-20 5.3	2.151	3.140	4.5	19.9
9 8	23 0.91	-20 33.2	0.741	1.734	8.6	18.1	9 8	23 0.91	-20 36.4	2.149	3.133	4.8	19.9
9 18	22 53.33	-21 0.2	0.758	1.729	12.9	18.3	9 18	22 52.81	-20 54.4	2.174	3.126	7.1	20.1
9 28	22 47.79	-20 51.8	0.793	1.727	17.8	18.6	9 28	22 45.65	-20 56.6	2.226	3.119	9.9	20.3
10 8	22 45.49	-20 9.0	0.843	1.726	22.4	18.9	10 8	22 40.09	-20 42.4	2.301	3.112	12.5	20.4
485751	2012 <i>BM</i> ₁₀₉		9 6.7 327°47	2°0/ 8.4 17			94210	2001 <i>BK</i> ₃₃		9 6.7 315°54	2°5/ 8.2 18		
7 30	23 26.70	-0 7.5	2.053	2.859	14.6	21.2	7 30	23 26.29	-0 40.2	1.431	2.265	18.5	19.3
8 9	23 22.72	+0 8.0	1.964	2.853	11.8	21.0	8 9	23 23.88	-0 16.5	1.314	2.221	15.2	19.0
8 19	23 16.73	+0 11.1	1.895	2.848	8.4	20.7	8 19	23 18.55	-0 8.5	1.215	2.177	11.1	18.6
8 29	23 9.20	+0 2.9	1.852	2.844	4.7	20.5	8 29	23 10.54	-0 16.4	1.137	2.132	6.3	18.2
9 8	23 0.86	-0 14.0	1.835	2.839	2.0	20.3	9 8	23 0.64	-0 38.2	1.083	2.088	2.5	17.8
9 18	22 52.56	-0 35.9	1.845	2.835	4.4	20.5	9 18	22 50.07	-1 9.1	1.053	2.045	6.4	18.0
9 28	22 45.22	-0 58.4	1.883	2.830	8.1	20.7	9 28	22 40.43	-1 42.1	1.047	2.002	12.1	18.1
10 8	22 39.58	-1 17.1	1.946	2.827	11.6	20.9	10 8	22 33.17	-2 9.4	1.062	1.959	17.6	18.3
362449	2010 <i>RQ</i> ₁₀₇		9 6.7 265°50	2°7/ 4.0 18			454000	2012 <i>CS</i> ₅₃		9 6.7 211°89	4°1/ 31.7 18		
7 30	23 27.42	-13 0.5	2.227	3.065	12.6	21.0	7 30	23 23.44	-16 50.0	2.672	3.516	10.6	21.5
8 9	23 23.12	-13 28.3	2.143	3.058	9.8	20.8	8 9	23 19.79	-18 13.4	2.593	3.511	8.2	21.4
8 19	23 16.90	-14 1.1	2.082	3.051	6.6	20.6	8 19	23 14.55	-19 40.9	2.539	3.505	5.8	21.2
8 29	23 9.25	-14 34.5	2.046	3.044	3.6	20.4	8 29	23 8.12	-21 6.6	2.513	3.499	4.2	21.1
9 8	23 0.86	-15 3.3	2.039	3.037	3.1	20.4	9 8	23 1.07	-22 24.3	2.516	3.493	4.8	21.1
9 18	22 52.57	-15 23.3	2.059	3.030	6.0	20.5	9 18	22 54.05	-23 29.0	2.547	3.486	6.9	21.3
9 28	22 45.22	-15 31.1	2.106	3.022	9.2	20.7	9 28	22 47.76	-24 16.8	2.605	3.479	9.3	21.4
10 8	22 39.50	-15 25.4	2.178	3.015	12.2	20.9	10 8	22 42.78	-24 46.2	2.686	3.471	11.6	21.6
476952	2008 <i>XH</i> ₃₄		9 6.7 333°12	1°9/ 7.9 17			473007	2015 <i>HC</i> ₄₀		9 6.7 229°41	3°5/ 3.2 17		
7 30	23 22.75	-1 26.5	1.303	2.153	19.1	20.5	7 30	23 26.87	-11 21.5	1.820	2.667	14.6	21.3
8 9	23 20.88	-1 10.7	1.217	2.134	15.4	20.2	8 9	23 23.20	-12 29.7	1.739	2.660	11.3	21.1
8 19	23 16.21	-1 12.4	1.149	2.116	11.0	19.9	8 19	23 17.25	-13 48.2	1.680	2.652	7.6	20.9
8 29	23 9.21	-1 30.5	1.101	2.099	5.9	19.6	8 29	23 9.52	-15 10.2	1.646	2.644	4.2	20.7
9 8	23 0.85	-2 0.8	1.077	2.083	1.9	19.3	9 8	23 0.86	-16 27.5	1.640	2.636	4.1	20.7
9 18	22 52.40	-2 37.1	1.076	2.068	6.1	19.5	9 18	22 52.24	-17 32.3	1.660	2.628	7.5	20.8
9 28	22 45.29	-3 11.5	1.098	2.055	11.4	19.8	9 28	22 44.74	-18 18.7	1.707	2.619	11.3	21.0
10 8	22 40.66	-3 37.0	1.141	2.043	16.2	20.0	10 8	22 39.19	-18 44.0	1.775	2.609	14.7	21.3
305856	2009 <i>ED</i> ₁₃		9 6.7 30°91	1°3/ 7.9 18			482368	2011 <i>YB</i> ₁₇		9 6.7 157°28	4°3/ 31.3 18		
7 30	23 26.08	-1 3.4	1.806	2.625	15.8	20.1	7 30	23 24.09	-19 6.2	2.846	3.688	10.0	21.7
8 9	23 22.43	-1 6.6	1.729	2.628	12.6	19.9	8 9	23 20.12	-20 22.5	2.780	3.694	7.8	21.5
8 19	23 16.61	-1 24.4	1.672	2.632	8.8	19.7	8 19	23 14.67	-21 40.4	2.738	3.700	5.7	21.4
8 29	23 9.15	-1 54.5	1.640	2.635	4.6	19.5	8 29	23 8.13	-22 54.2	2.725	3.705	4.4	21.3
9 8	23 0.88	-2 32.5	1.633	2.639	1.3	19.3	9 8	23 1.08	-23 58.8	2.740	3.710	4.9	21.4
9 18	22 52.76	-3 13.3	1.653	2.643	4.7	19.5	9 18	22 54.13	-24 49.8	2.784	3.714	6.8	21.5
9 28	22 45.77	-3 51.0	1.700	2.648	8.8	19.8	9 28	22 47.91	-25 24.5	2.854	3.718	8.9	21.6
10 8	22 40.65	-4 20.8	1.771	2.652	12.5	20.0	10 8	22 42.97	-25 42.2	2.947	3.722	10.9	21.8
394825	2008 <i>SE</i> ₁₂₇		9 6.7 272°75	2°6/ 9.2 16			261480	2005 <i>VJ</i> ₁₂₄		9 6.7 205°85	3°1/ 10.2 18		
7 30	23 25.60	+3 47.7	1.994	2.788	15.4	22.4	7 30	23 24.37	+5 29.1	2.423	3.197	13.6	21.2
8 9	23 22.19	+3 34.1	1.882	2.762	12.7	22.1	8 9	23 20.60	+5 31.8	2.331	3.196	11.1	21.1
8 19	23 16.62	+3 1.9	1.790	2.736	9.3	21.9	8 19	23 15.15	+5 19.6	2.260	3.194	8.3	20.9
8 29	23 9.28	+2 11.9	1.722	2.710	5.6	21.6	8 29	23 8.42	+4 53.3	2.213	3.192	5.3	20.7
9 8	23 0.85	+1 7.2	1.680	2.683	2.6	21.4	9 8	23 1.04	+4 15.2	2.193	3.190	3.2	20.5
9 18	22 52.24	-0 6.6	1.666	2.656	4.8	21.4	9 18	22 53.69	+3 29.1	2.202	3.188	4.2	20.6
9 28	22 44.45	-1 22.1	1.679	2.628	8.8	21.6	9 28	22 47.12	+2 39.6	2.238	3.186	7.0	20.8
10 8	22 38.37	-2 32.0	1.718	2.599	12.8	21.8	10 8	22 41.95	+1 51.9	2.301	3.183	9.9	21.0
221610	2006 <i>WB</i> ₂₀₁		9 6.7 8°61	2°4/ 5.2 15			144712	2004 <i>GN</i> ₂₂		9 6.7 64°36	1°2/ 5.6 18		
7 30	23 24.13	-9 25.0	1.035	1.919	20.4	19.7	7 30	23 25.76	-6 38.8	1.895	2.730	14.6	20.3
8 9	23 22.27	-9 40.0	0.980	1.920	15.9	19.4	8 9	23 21.94	-7 15.3	1.833	2.746	11.3	20.1
8 19	23 17.18	-10 8.1	0.942	1.923	10.7	19.2	8 19	23 16.12	-8 2.4	1.792	2.762	7.5	19.9
8 29	23 9.59	-10 42.8	0.924	1.927	5.1	18.9	8 29	23 8.87	-8 55.4	1.777	2.778	3.4	19.7
9 8	23 0.83	-11 15.2	0.928	1.933	3.0	18.8	9 8	23 0.98	-9 48.5	1.788	2.794	1.6	19.6
9 18	22 52.45	-11 37.1	0.954	1.940	8.1	19.1	9 18	22 53.35	-10 35.7	1.827	2.810	5.3	19.9
9 28	22 45.97	-11 42.4	1.001	1.949	13.4	19.4	9 28	22 46.85	-11 12.3	1.893	2.826	9.1	20.1
10 8	22 42.37	-11 28.8	1.068	1.959	18.0	19.7	10 8	22 42.13	-11 35.2	1.982	2.842	12.3	20.4
387032	2012 <i>SG</i> ₂₈		9 6.7 15°55	2°1/ 5.0 18			65789	1995 <i>UB</i> ₂₄		9 6.7 14°12	0°0/ 6.6 18		
7 30	23 24.86	-8 12.5	1.387	2.248	17.5	20.4	7 30	23 26.49	-4 27.3	1.582	2.421	16.8	20.2
8 9	23 22.08	-8 49.3	1.323	2.251	13.6	20.2	8 9	23 23.07	-4 40.4	1.509	2.423	13.2	20.0
8 19	23 16.67	-9 39.3	1.278	2.254	9.1	19.9	8 19	23 17.21	-5 7.3	1.456	2.424	9.0	19.7
8 29	23 9.25	-10 36.1	1.257	2.259	4.3	19.6	8 29	23 9.50	-5 44.6	1.426	2.426	4.3	19.5
9 8	23 0.88	-11 31.6	1.259	2.264	2.7	19.6	9 8	23 0.87	-6 26.4	1.422	2.429	0.7	19.2
9 18	22 52.77	-12 17.8	1.287	2.269	7.1	19.8	9 18	22 52.42	-7 6.5	1.443	2.432	5.6	19.6
9 28	22 46.11	-12 48.5	1.338	2.276	11.7	20.1	9 28	22 45.26	-7 38.7	1.490	2.435	10.1	19.8
10 8	22 41.79	-13 0.4	1.411	2.283	15.7	20.4	10 8	22 40.24	-7 58.6	1.560	2.438	14.0	20.1
6700	Kubišová		9 6.7 252°52	3°3/ 3.4 18			435066	2006 <i>YQ</i> ₁₂		9 6.7 195°57	3°0/ 3.6 17		
7 30	23 26.49	-12 6.6	1.903	2.751									

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
123703	2000 YB ₁₁₁		9 6.7 211.°25	1.4/ 8.3	18		12501	Nord		9 6.7 36.°52	0.4/ 6.4	18	
7 30	23 25.28	+ 0 12.3	2.550	3.344	12.4	20.6	7 30	23 27.04	- 4 43.0	1.086	1.952	21.0	17.0
8 9	23 21.20	+ 0 6.8	2.457	3.340	10.0	20.4	8 9	23 24.22	- 5 0.5	1.039	1.967	16.4	16.7
8 19	23 15.50	- 0 10.2	2.386	3.336	7.1	20.2	8 19	23 18.28	- 5 36.3	1.009	1.984	11.0	16.5
8 29	23 8.58	- 0 37.0	2.340	3.332	3.9	20.0	8 29	23 10.06	- 6 24.6	1.000	2.002	5.1	16.2
9 8	23 1.03	- 1 10.8	2.323	3.328	1.4	19.8	9 8	23 0.89	- 7 16.5	1.013	2.020	1.1	16.0
9 18	22 53.51	- 1 48.0	2.334	3.323	3.7	20.0	9 18	22 52.24	- 8 3.1	1.050	2.040	6.8	16.5
9 28	22 46.74	- 2 24.3	2.374	3.318	6.9	20.2	9 28	22 45.51	- 8 36.8	1.110	2.060	12.1	16.8
10 8	22 41.32	- 2 55.9	2.441	3.313	9.8	20.4	10 8	22 41.56	- 8 53.3	1.189	2.080	16.5	17.2
392111	2009 EU ₂₄		9 6.7 206.°26	0.4/ 7.2	18		9807	1997 SJ ₄		9 6.7 293.°16	1.°1/ 8.9	18	R
7 30	23 23.48	- 0 29.6	2.148	2.959	13.9	21.3	7 30	23 17.50	+ 1 25.6	4.263	5.042	8.0	18.5
8 9	23 20.14	- 1 18.2	2.060	2.956	11.0	21.1	8 9	23 14.58	+ 1 13.1	4.157	5.030	6.4	18.4
8 19	23 14.95	- 2 22.7	1.993	2.953	7.6	20.9	8 19	23 10.76	+ 0 53.1	4.074	5.019	4.6	18.3
8 29	23 8.37	- 3 39.5	1.953	2.950	3.7	20.7	8 29	23 6.28	+ 0 26.6	4.018	5.007	2.6	18.1
9 8	23 1.06	- 5 3.1	1.940	2.947	0.5	20.4	9 8	23 1.47	- 0 4.6	3.992	4.995	1.2	18.0
9 18	22 53.80	- 6 26.9	1.956	2.944	4.4	20.7	9 18	22 56.66	- 0 38.5	3.995	4.983	2.3	18.1
9 28	22 47.42	- 7 44.1	2.000	2.940	8.2	20.9	9 28	22 52.22	- 1 12.6	4.027	4.972	4.3	18.2
10 8	22 42.57	- 8 49.3	2.069	2.936	11.6	21.1	10 8	22 48.48	- 1 44.6	4.088	4.960	6.2	18.3
348048	2003 UF ₁₄₉		9 6.7 280.°95	2.°9/ 9.7	18		420717	2012 PA ₆		9 6.7 31.°88	1.°5/ 8.6	18	
7 30	23 22.56	+ 5 45.4	1.890	2.684	16.1	20.7	7 30	23 21.94	+ 0 34.8	2.635	3.432	12.0	20.4
8 9	23 19.83	+ 5 18.8	1.790	2.669	13.3	20.5	8 9	23 18.50	+ 0 30.5	2.556	3.441	9.6	20.3
8 19	23 15.00	+ 4 30.3	1.710	2.654	9.8	20.2	8 19	23 13.62	+ 0 15.2	2.499	3.450	6.8	20.1
8 29	23 8.49	+ 3 21.0	1.652	2.638	6.0	20.0	8 29	23 7.69	- 0 9.6	2.468	3.459	3.8	19.9
9 8	23 1.04	+ 1 55.0	1.621	2.623	3.0	19.7	9 8	23 1.26	- 0 40.9	2.464	3.469	1.5	19.8
9 18	22 53.51	+ 0 19.2	1.617	2.607	4.8	19.8	9 18	22 54.95	- 1 15.4	2.489	3.479	3.4	19.9
9 28	22 46.90	- 1 17.7	1.640	2.591	8.7	20.0	9 28	22 49.36	- 1 49.2	2.543	3.489	6.3	20.1
10 8	22 42.03	- 2 47.2	1.688	2.576	12.6	20.2	10 8	22 45.01	- 2 18.8	2.622	3.499	9.0	20.3
18292	Zoltowski		9 6.7 249.°93	0.°3/ 6.4	18		225067	2007 HR ₄₇		9 6.7 310.°36	0.°8/ 7.6	18	
7 30	23 24.11	- 4 20.6	2.235	3.056	13.1	19.0	7 30	23 22.00	- 0 47.0	2.165	2.980	13.7	20.1
8 9	23 20.56	- 4 52.2	2.146	3.050	10.3	18.8	8 9	23 19.04	- 1 11.9	2.072	2.969	10.9	19.9
8 19	23 15.21	- 5 35.3	2.079	3.044	6.9	18.6	8 19	23 14.27	- 1 51.1	1.999	2.959	7.6	19.7
8 29	23 8.48	- 6 26.7	2.038	3.038	3.3	18.4	8 29	23 8.10	- 2 41.9	1.952	2.949	3.9	19.5
9 8	23 1.05	- 7 21.5	2.024	3.031	0.7	18.2	9 8	23 1.19	- 3 40.2	1.932	2.939	0.8	19.2
9 18	22 53.66	- 8 14.5	2.039	3.025	4.5	18.4	9 18	22 54.29	- 4 40.3	1.940	2.929	4.2	19.5
9 28	22 47.11	- 9 0.5	2.082	3.018	8.2	18.7	9 28	22 48.21	- 5 36.7	1.975	2.919	8.0	19.7
10 8	22 42.07	- 9 35.8	2.149	3.011	11.4	18.9	10 8	22 43.62	- 6 24.3	2.034	2.910	11.3	19.9
31133	1997 SZ ₁₅		9 6.7 43.°92	2.°2/ 8.6	17		253676	2003 UR ₂₁₉		9 6.7 240.°62	1.°5/ 7.9	18	
7 30	23 25.84	+ 1 35.3	1.456	2.282	18.7	18.6	7 30	23 29.52	- 0 8.6	1.799	2.609	16.3	21.5
8 9	23 22.71	+ 1 28.5	1.389	2.290	15.0	18.3	8 9	23 25.41	- 0 18.5	1.702	2.595	13.1	21.3
8 19	23 17.03	+ 1 1.2	1.340	2.298	10.7	18.1	8 19	23 18.90	- 0 44.9	1.624	2.581	9.3	21.0
8 29	23 9.44	+ 0 15.9	1.314	2.307	5.9	17.9	8 29	23 10.43	- 1 25.8	1.571	2.566	5.0	20.7
9 8	23 0.91	- 0 42.0	1.311	2.317	2.3	17.7	9 8	23 0.84	- 2 17.0	1.544	2.550	1.5	20.5
9 18	22 52.63	- 1 44.9	1.335	2.326	5.4	17.9	9 18	22 51.16	- 3 12.6	1.544	2.534	5.1	20.7
9 28	22 45.73	- 2 44.7	1.383	2.336	9.9	18.2	9 28	22 42.53	- 4 5.6	1.572	2.517	9.6	20.9
10 8	22 41.09	- 3 34.3	1.455	2.346	14.0	18.5	10 8	22 35.90	- 4 49.8	1.623	2.499	13.7	21.1
168214	2006 JO ₄₆		9 6.7 293.°73	4.°3/ 11.4	18		440413	2005 QD ₃₄		9 6.7 347.°19	1.°3/ 7.7	17	
7 30	23 21.93	+ 9 29.5	1.916	2.691	16.6	20.1	7 30	23 26.43	- 2 59.7	1.650	2.482	16.5	20.4
8 9	23 19.26	+ 9 14.0	1.821	2.682	13.9	19.8	8 9	23 23.04	- 2 41.7	1.568	2.475	13.2	20.2
8 19	23 14.56	+ 8 35.2	1.745	2.674	10.7	19.6	8 19	23 17.25	- 2 36.1	1.505	2.468	9.2	20.0
8 29	23 8.26	+ 7 33.4	1.691	2.665	7.2	19.4	8 29	23 9.61	- 2 41.4	1.466	2.463	4.8	19.7
9 8	23 1.09	+ 6 11.9	1.663	2.657	4.5	19.2	9 8	23 0.97	- 2 54.1	1.452	2.458	1.3	19.4
9 18	22 53.90	+ 4 36.7	1.662	2.649	5.2	19.2	9 18	22 52.42	- 3 9.7	1.464	2.454	5.1	19.7
9 28	22 47.65	+ 2 56.5	1.688	2.640	8.4	19.4	9 28	22 45.05	- 3 23.2	1.501	2.451	9.6	20.0
10 8	22 43.12	+ 1 19.9	1.739	2.632	12.0	19.6	10 8	22 39.75	- 3 30.3	1.562	2.449	13.5	20.2
5023	Agapenor		9 6.7 317.°08	1.°9/ 10.2	18		481444	2006 WV ₁₄₅		9 6.7 233.°79	2.°9/ 9.9	18	
7 30	23 18.90	+ 4 28.6	4.222	4.982	8.4	17.6	7 30	23 25.32	+ 5 0.5	2.505	3.277	13.2	21.9
8 9	23 15.62	+ 4 32.0	4.122	4.979	6.9	17.5	8 9	23 21.37	+ 5 0.8	2.403	3.267	10.9	21.8
8 19	23 11.43	+ 4 27.3	4.046	4.976	5.1	17.3	8 19	23 15.73	+ 4 46.8	2.322	3.257	8.1	21.6
8 29	23 6.56	+ 4 15.1	3.996	4.973	3.3	17.2	8 29	23 8.77	+ 4 19.2	2.265	3.246	5.1	21.4
9 8	23 1.37	+ 3 56.7	3.974	4.970	2.0	17.1	9 8	23 1.10	+ 3 40.0	2.236	3.234	2.9	21.2
9 18	22 56.19	+ 3 34.0	3.982	4.967	2.6	17.2	9 18	22 53.40	+ 2 53.1	2.236	3.223	4.1	21.3
9 28	22 51.41	+ 3 9.2	4.020	4.964	4.3	17.3	9 28	22 46.42	+ 2 3.0	2.264	3.211	7.0	21.4
10 8	22 47.36	+ 2 44.5	4.085	4.962	6.1	17.4	10 8	22 40.81	+ 1 14.7	2.319	3.198	10.0	21.6
259627	2003 WU ₃₁		9 6.7 239.°24	1.°2/ 7.7	18		328928	2010 UJ ₁₀₀		9 6.7 217.°40	3.°9/ 11.8	18	
7 30	23 29.59	- 1 1.5	1.756	2.570	16.4	21.8	7 30	23 22.81	+ 10 7.5	2.683	3.427	13.1	21.2
8 9	23 25.49	- 1 11.2	1.661	2.558	13.2	21.5	8 9	23 19.29	+ 10 2.1	2.582	3.422	11.0	21.0
8 19	23 18.94	- 1 36.9	1.587	2.546	9.3	21.2	8 19	23 14.24	+ 9 40.4	2.503	3.416	8.5	20.8
8 29	23 10.42	- 2 16.4	1.537	2.533	4.8	21.0	8 29	23 8.04	+ 9 2.3	2.447	3.411	6.0	20.7
9 8	23 0.78	- 3 5.3	1.512	2.519	1.2	20.7	9 8	23 1.21	+ 8 9.9	2.418	3.405	4.1	20.5
9 18	22 51.08	- 3 57.3	1.516	2.505	5.2	20.9	9 18	22 54.40	+ 7 6.8	2.418	3.398	4.4	20.6
9 28	22 42.49	- 4 45.8	1.545	2.490	9.8	21.2	9 28	22 48.25	+ 5 58.0	2.446	3.392	6.6	20.7
10 8	22 35.94	- 5 24.8	1.599	2.475	13.9	21.4	10 8	22 43.36	+ 4 48.8	2.501	3.385	9.2	20.9
479257	2013 ES ₉₀		9 6.7 244.°87	4.°0/ 2.1	18		92037	1999 VV ₁₈₅		9 6.7 352.°47	0.°3/ 6.4	18	
7 30	23 28.69	- 17 0.0	2.523	3.359	11.4								

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
223434	2003 <i>SQ</i> ₂₇₉	9 6.7 41°22'	2°6'	9.7	18		49169	1998 <i>SL</i> ₅₉	9 6.7 40°43'	1°9'	5.4	18	
7 30	23 23.02	+ 4 12.5	2.318	3.104	13.8	20.3	7 30	23 27.67	- 7 30.0	1.198	2.062	19.5	18.6
8 9	23 19.63	+ 4 5.7	2.232	3.106	11.2	20.1	8 9	23 24.51	- 8 1.1	1.148	2.077	15.1	18.4
8 19	23 14.54	+ 3 43.7	2.167	3.108	8.2	19.9	8 19	23 18.40	- 8 46.5	1.116	2.092	10.1	18.2
8 29	23 8.19	+ 3 7.8	2.126	3.110	5.0	19.7	8 29	23 10.13	- 9 39.5	1.106	2.109	4.7	17.9
9 8	23 1.20	+ 2 21.1	2.112	3.113	2.6	19.6	9 8	23 0.95	-10 31.2	1.120	2.125	2.4	17.8
9 18	22 54.28	+ 1 27.9	2.126	3.115	4.0	19.7	9 18	22 52.25	-11 13.3	1.158	2.143	7.2	18.2
9 28	22 48.18	+ 0 33.4	2.169	3.117	7.1	19.9	9 28	22 45.34	-11 39.6	1.219	2.161	12.1	18.5
10 8	22 43.51	- 0 17.3	2.236	3.120	10.1	20.1	10 8	22 41.06	-11 47.2	1.301	2.179	16.3	18.8
185293	2006 <i>UY</i> ₂₂₇	9 6.7 251°28'	1°6'	5.1	18		439130	2011 <i>ST</i> ₂₃₄	9 6.7 41°37'	2°2'	5.0	18	
7 30	23 25.13	- 7 52.7	2.054	2.889	13.6	20.7	7 30	23 27.61	- 9 32.8	1.555	2.407	16.4	20.8
8 9	23 21.51	- 8 31.5	1.973	2.887	10.6	20.4	8 9	23 23.83	-10 0.1	1.499	2.421	12.7	20.6
8 19	23 15.93	- 9 20.2	1.915	2.885	7.0	20.2	8 19	23 17.63	-10 36.8	1.463	2.436	8.4	20.4
8 29	23 8.88	-10 14.4	1.882	2.882	3.3	20.0	8 29	23 9.70	-11 17.4	1.451	2.452	4.0	20.2
9 8	23 1.09	-11 8.4	1.876	2.880	2.0	19.9	9 8	23 1.02	-11 55.0	1.464	2.468	2.6	20.2
9 18	22 53.40	-11 56.5	1.898	2.878	5.5	20.1	9 18	22 52.70	-12 23.7	1.504	2.484	6.5	20.5
9 28	22 46.67	-12 33.8	1.947	2.876	9.1	20.4	9 28	22 45.81	-12 39.0	1.568	2.501	10.6	20.7
10 8	22 41.61	-12 57.0	2.020	2.873	12.4	20.6	10 8	22 41.08	-12 39.1	1.655	2.518	14.1	21.0
323330	2003 <i>UM</i> ₁₇₂	9 6.7 7°82'	7°2'	2.1	18		355578	2008 <i>CN</i> ₉₈	9 6.7 113°10'	0°6'	6.1	18	
7 30	23 19.31	-15 29.6	0.852	1.762	21.1	18.7	7 30	23 24.68	- 4 57.4	2.107	2.933	13.6	21.6
8 9	23 19.10	-16 37.7	0.808	1.763	16.4	18.5	8 9	23 21.07	- 5 31.1	2.028	2.936	10.6	21.4
8 19	23 15.34	-17 54.5	0.781	1.765	11.5	18.2	8 19	23 15.59	- 6 16.3	1.971	2.938	7.2	21.2
8 29	23 8.84	-19 7.0	0.772	1.770	7.6	18.0	8 29	23 8.72	- 7 9.1	1.940	2.940	3.3	21.0
9 8	23 1.10	-20 1.1	0.783	1.777	8.1	18.1	9 8	23 1.15	- 8 4.5	1.936	2.943	0.9	20.8
9 18	22 53.85	-20 26.6	0.814	1.786	12.2	18.3	9 18	22 53.71	- 8 56.7	1.960	2.945	4.8	21.1
9 28	22 48.71	-20 19.1	0.864	1.797	16.9	18.7	9 28	22 47.20	- 9 40.8	2.011	2.947	8.4	21.3
10 8	22 46.67	-19 40.5	0.930	1.810	21.0	19.0	10 8	22 42.29	-10 13.0	2.087	2.949	11.7	21.6
375217	2008 <i>FS</i> ₂₆	9 6.7 117°45'	1°1'	5.8	17		478590	2012 <i>TD</i> ₁₁₁	9 6.7 26°44'	5°6'	11.3	16	
7 30	23 30.67	- 6 31.4	1.702	2.535	16.1	21.2	7 30	23 23.64	+ 7 42.3	1.278	2.093	21.3	21.0
8 9	23 26.07	- 7 0.2	1.636	2.547	12.5	21.0	8 9	23 21.32	+ 8 9.5	1.218	2.104	17.7	20.8
8 19	23 19.10	- 7 40.7	1.590	2.559	8.4	20.8	8 19	23 16.28	+ 8 10.0	1.175	2.116	13.5	20.6
8 29	23 10.39	- 8 28.2	1.569	2.570	3.9	20.6	8 29	23 9.18	+ 7 43.4	1.151	2.130	9.2	20.4
9 8	23 0.89	- 9 16.4	1.575	2.581	1.5	20.4	9 8	23 1.10	+ 6 53.3	1.150	2.144	5.9	20.2
9 18	22 51.67	- 9 59.0	1.608	2.591	5.8	20.8	9 18	22 53.30	+ 5 46.9	1.172	2.160	6.7	20.3
9 28	22 43.77	-10 30.6	1.667	2.602	10.0	21.0	9 28	22 47.03	+ 4 34.0	1.218	2.176	10.4	20.6
10 8	22 37.99	-10 48.2	1.750	2.611	13.6	21.3	10 8	22 43.19	+ 3 24.9	1.286	2.193	14.3	20.9
476204	2007 <i>US</i> ₆₂	9 6.7 307°49'	1°1'	7.7	16		363427	2003 <i>SH</i> ₂₃	9 6.7 0°13'	4°1'	10.9	17	
7 30	23 23.74	- 0 49.6	1.696	2.524	16.3	21.7	7 30	23 20.29	+ 7 17.6	1.826	2.620	16.7	20.4
8 9	23 21.01	- 1 4.5	1.602	2.507	13.1	21.5	8 9	23 18.02	+ 7 19.3	1.744	2.618	13.8	20.2
8 19	23 15.96	- 1 36.5	1.528	2.490	9.2	21.2	8 19	23 13.74	+ 7 0.2	1.680	2.617	10.5	20.0
8 29	23 9.05	- 2 23.5	1.477	2.474	4.8	20.9	8 29	23 7.91	+ 6 20.7	1.638	2.616	6.9	19.8
9 8	23 1.07	- 3 20.5	1.451	2.458	1.1	20.6	9 8	23 1.27	+ 5 23.9	1.621	2.617	4.3	19.6
9 18	22 53.03	- 4 21.0	1.452	2.442	5.2	20.9	9 18	22 54.71	+ 4 15.5	1.630	2.618	5.1	19.7
9 28	22 46.02	- 5 17.5	1.478	2.427	9.8	21.1	9 28	22 49.14	+ 3 2.7	1.665	2.620	8.4	19.9
10 8	22 40.97	- 6 3.5	1.527	2.412	13.9	21.3	10 8	22 45.29	+ 1 53.1	1.725	2.623	11.8	20.1
470426	2007 <i>VN</i> ₂₄₂	9 6.7 343°24'	3°8'	4.9	18		399276	2014 <i>HN</i> ₈₃	9 6.7 208°45'	0°6'	6.1	18	
7 30	23 33.21	-15 49.0	1.346	2.208	17.9	19.8	7 30	23 24.91	- 4 47.2	2.043	2.870	14.0	21.3
8 9	23 29.00	-15 33.0	1.269	2.196	14.1	19.5	8 9	23 21.35	- 5 25.8	1.961	2.869	10.9	21.1
8 19	23 21.64	-15 18.2	1.211	2.184	9.8	19.2	8 19	23 15.85	- 6 17.0	1.900	2.867	7.3	20.9
8 29	23 11.80	-14 59.0	1.175	2.174	5.3	19.0	8 29	23 8.87	- 7 16.5	1.865	2.865	3.4	20.7
9 8	23 0.68	-14 29.9	1.164	2.165	4.1	18.9	9 8	23 1.14	- 8 18.9	1.857	2.863	1.0	20.5
9 18	22 49.76	-13 47.3	1.178	2.157	8.1	19.1	9 18	22 53.50	- 9 18.1	1.877	2.862	5.0	20.8
9 28	22 40.55	-12 50.2	1.216	2.150	12.8	19.3	9 28	22 46.80	-10 8.4	1.924	2.859	8.8	21.0
10 8	22 34.13	-11 39.6	1.275	2.145	17.1	19.6	10 8	22 41.77	-10 45.8	1.996	2.857	12.2	21.2
453518	2009 <i>UK</i> ₁₄₃	9 6.7 336°78'	2°4'	9.1	16		27548	2000 <i>JY</i> ₂₂	9 6.7 177°09'	1°6'	5.3	18	
7 30	23 21.27	+ 2 39.8	1.941	2.750	15.3	21.5	7 30	23 30.68	-10 6.8	2.182	3.008	13.2	19.0
8 9	23 18.71	+ 2 35.4	1.850	2.739	12.4	21.3	8 9	23 25.65	-10 19.8	2.101	3.009	10.3	18.8
8 19	23 14.17	+ 2 14.2	1.778	2.729	9.0	21.0	8 19	23 18.64	-10 39.0	2.043	3.010	6.9	18.6
8 29	23 8.11	+ 1 37.3	1.730	2.719	5.3	20.8	8 29	23 10.16	-11 0.7	2.011	3.011	3.3	18.3
9 8	23 1.22	+ 0 48.5	1.707	2.710	2.5	20.6	9 8	23 0.97	-11 20.5	2.007	3.011	1.9	18.2
9 18	22 54.33	- 0 7.3	1.711	2.702	4.5	20.7	9 18	22 51.92	-11 34.5	2.032	3.011	5.2	18.5
9 28	22 48.35	- 1 3.6	1.742	2.694	8.3	20.9	9 28	22 43.90	-11 39.4	2.084	3.011	8.7	18.7
10 8	22 44.02	- 1 54.4	1.797	2.687	11.9	21.1	10 8	22 37.60	-11 33.5	2.162	3.010	11.9	18.9
106286	2000 <i>UK</i> ₇₇	9 6.7 268°44'	0°5'	7.2	18		241705	2000 <i>SA</i> ₃₀₅	9 6.7 348°76'	4°4'	9.2	18	
7 30	23 24.62	- 1 6.6	1.783	2.606	15.8	20.1	7 30	23 22.25	+ 0 48.8	0.968	1.834	23.0	19.2
8 9	23 21.50	- 1 40.0	1.695	2.598	12.6	19.9	8 9	23 21.27	+ 1 41.9	0.900	1.823	18.9	18.9
8 19	23 16.17	- 2 30.8	1.627	2.589	8.7	19.6	8 19	23 16.92	+ 2 13.8	0.847	1.813	13.9	18.6
8 29	23 9.10	- 3 35.8	1.582	2.581	4.4	19.3	8 29	23 9.76	+ 2 23.1	0.812	1.806	8.5	18.3
9 8	23 1.08	- 4 49.1	1.565	2.572	0.6	19.0	9 8	23 1.01	+ 2 12.0	0.796	1.799	4.5	18.1
9 18	22 53.07	- 6 3.5	1.574	2.563	5.1	19.4	9 18	22 52.31	+ 1 46.4	0.802	1.795	7.3	18.2
9 28	22 46.10	- 7 11.2	1.610	2.554	9.5	19.6	9 28	22 45.41	+ 1 15.4	0.828	1.793	12.8	18.5
10 8	22 41.02	- 8 6.2	1.670	2.545	13.4	19.8	10 8	22 41.60	+ 0 48.3	0.873	1.792	18.0	18.8
381748	2009 <i>SU</i> ₁₀₁	9 6.7 316°99'	12°8'	20.5	18		71541	2000 <i>CK</i> ₁₁₅	9 6.7 142°46'	0°0'	6.6		

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
62188	2000 <i>SK</i> ₄₁		9 6.7 199°01	1.7°/ 4.8	18		304298	2006 <i>SF</i> ₁₀₀		9 6.8 7°26	0.3°/ 7.0	18	
7 30	23 24.96	- 8 44.6	2.265	3.098	12.6	19.6	7 30	23 23.11	- 2 10.9	1.690	2.523	16.1	20.6
8 9	23 21.19	- 9 25.8	2.184	3.097	9.7	19.4	8 9	23 20.34	- 2 39.8	1.614	2.524	12.7	20.4
8 19	23 15.63	-10 15.5	2.126	3.095	6.5	19.2	8 19	23 15.37	- 3 25.0	1.559	2.525	8.7	20.2
8 29	23 8.74	-11 9.5	2.094	3.094	3.1	19.0	8 29	23 8.73	- 4 22.8	1.527	2.526	4.3	19.9
9 8	23 1.18	-12 2.4	2.089	3.092	2.1	18.9	9 8	23 1.24	- 5 27.1	1.521	2.528	0.5	19.6
9 18	22 53.72	-12 49.0	2.113	3.091	5.2	19.1	9 18	22 53.87	- 6 30.8	1.541	2.530	5.1	20.0
9 28	22 47.13	-13 25.0	2.165	3.089	8.6	19.3	9 28	22 47.64	- 7 26.9	1.587	2.533	9.5	20.2
10 8	22 42.05	-13 47.7	2.241	3.087	11.6	19.5	10 8	22 43.31	- 8 9.9	1.657	2.536	13.3	20.5
157317	2004 <i>SK</i> ₄₅		9 6.7 48°92	1°6/ 7.9	17		367249	2007 <i>PC</i> ₂₈		9 6.8 334°69	3°7/10.7	17	
7 30	23 28.35	- 0 59.5	1.490	2.318	18.2	19.9	7 30	23 23.60	+ 6 11.5	2.301	3.076	14.1	20.5
8 9	23 24.59	- 0 56.0	1.425	2.330	14.5	19.7	8 9	23 20.19	+ 6 30.9	2.207	3.070	11.7	20.3
8 19	23 18.29	- 1 9.1	1.380	2.341	10.1	19.5	8 19	23 15.03	+ 6 35.3	2.133	3.064	8.9	20.1
8 29	23 10.08	- 1 36.6	1.357	2.353	5.3	19.3	8 29	23 8.51	+ 6 24.9	2.083	3.058	6.0	19.9
9 8	23 1.00	- 2 13.3	1.359	2.366	1.6	19.0	9 8	23 1.27	+ 6 1.1	2.059	3.052	3.9	19.7
9 18	22 52.21	- 2 53.2	1.388	2.378	5.3	19.3	9 18	22 54.04	+ 5 27.3	2.063	3.047	4.6	19.8
9 28	22 44.85	- 3 29.5	1.441	2.391	9.8	19.6	9 28	22 47.60	+ 4 47.8	2.094	3.042	7.4	20.0
10 8	22 39.76	- 3 56.9	1.517	2.404	13.8	19.9	10 8	22 42.60	+ 4 8.0	2.150	3.037	10.3	20.1
103801	2000 <i>DY</i> ₁₃		9 6.7 101°50	0°1/ 6.9	18		253626	2003 <i>UV</i> ₉₀		9 6.8 217°36	0°6/ 7.2	18	
7 30	23 25.18	- 2 45.0	1.937	2.760	14.8	20.8	7 30	23 25.91	- 0 21.6	1.549	2.377	17.6	20.5
8 9	23 21.64	- 3 14.6	1.859	2.763	11.6	20.6	8 9	23 22.82	- 1 3.5	1.469	2.375	14.0	20.2
8 19	23 16.08	- 3 58.2	1.802	2.765	7.9	20.3	8 19	23 17.23	- 2 6.2	1.409	2.373	9.7	20.0
8 29	23 9.00	- 4 52.2	1.769	2.768	3.8	20.1	8 29	23 9.69	- 3 25.9	1.371	2.370	4.8	19.7
9 8	23 1.16	- 5 51.3	1.764	2.771	0.5	19.8	9 8	23 1.10	- 4 55.1	1.360	2.367	0.7	19.4
9 18	22 53.45	- 6 49.3	1.786	2.774	4.7	20.2	9 18	22 52.59	- 6 24.8	1.375	2.364	5.6	19.7
9 28	22 46.76	- 7 40.3	1.835	2.777	8.7	20.4	9 28	22 45.33	- 7 45.4	1.415	2.361	10.4	20.0
10 8	22 41.81	- 8 19.7	1.909	2.780	12.2	20.7	10 8	22 40.24	- 8 50.0	1.479	2.357	14.6	20.2
64878	2001 <i>YB</i> ₆₇		9 6.7 231°52	6°5/29.9	18		402065	2003 <i>TE</i> ₁₀		9 6.8 330°60	10°8/13.0	16	
7 30	23 26.85	-24 3.5	2.296	3.145	11.9	19.8	7 30	23 31.68	+16 6.8	1.868	2.587	18.8	20.1
8 9	23 22.79	-25 19.6	2.227	3.139	9.6	19.7	8 9	23 27.49	+18 10.0	1.762	2.564	16.8	19.9
8 19	23 16.79	-26 34.5	2.181	3.133	7.5	19.5	8 19	23 20.65	+19 58.6	1.675	2.541	14.6	19.7
8 29	23 9.32	-27 41.1	2.161	3.127	6.5	19.4	8 29	23 11.50	+21 26.2	1.608	2.520	12.4	19.5
9 8	23 1.12	-28 32.8	2.168	3.121	7.2	19.5	9 8	23 0.81	+22 27.6	1.565	2.499	11.0	19.3
9 18	22 53.03	-29 4.7	2.201	3.115	9.2	19.6	9 18	22 49.66	+23 0.1	1.546	2.479	11.0	19.3
9 28	22 45.93	-29 14.6	2.259	3.108	11.5	19.7	9 28	22 39.38	+23 5.3	1.552	2.460	12.5	19.4
10 8	22 40.50	-29 2.8	2.338	3.101	13.8	19.9	10 8	22 31.14	+22 49.1	1.579	2.442	14.8	19.5
99929	2000 <i>FF</i> ₅₅		9 6.7 24°18	0°8/ 7.6	18		438923	2010 <i>CJ</i> ₈₄		9 6.8 97°73	1°4/ 5.1	17	
7 30	23 20.30	+ 1 40.1	1.603	2.431	17.1	18.5	7 30	23 26.08	- 5 18.6	1.990	2.818	14.3	21.5
8 9	23 18.21	+ 0 41.2	1.532	2.437	13.6	18.2	8 9	23 22.14	- 6 30.9	1.929	2.839	11.0	21.3
8 19	23 13.94	- 0 40.1	1.482	2.444	9.4	18.0	8 19	23 16.29	- 7 55.8	1.891	2.859	7.2	21.1
8 29	23 8.02	- 2 19.1	1.454	2.452	4.8	17.8	8 29	23 9.05	- 9 27.3	1.879	2.880	3.3	20.9
9 8	23 1.30	- 4 7.8	1.453	2.460	0.8	17.5	9 8	23 1.22	-10 57.9	1.895	2.900	1.9	20.8
9 18	22 54.75	- 5 56.2	1.479	2.469	5.1	17.8	9 18	22 53.63	-12 20.5	1.940	2.919	5.4	21.1
9 28	22 49.34	- 7 34.7	1.530	2.478	9.5	18.1	9 28	22 47.11	-13 29.1	2.012	2.938	9.0	21.4
10 8	22 45.84	- 8 56.0	1.605	2.488	13.4	18.4	10 8	22 42.31	-14 20.3	2.109	2.957	12.2	21.6
314014	2004 <i>VV</i> ₉₉		9 6.7 71°21	0°3/ 7.1	18		453608	2010 <i>NC</i> ₇₅		9 6.8 259°20	3°2/ 3.4	18	
7 30	23 24.76	- 2 41.6	2.207	3.022	13.5	21.2	7 30	23 27.68	-14 42.3	2.342	3.180	12.0	21.4
8 9	23 20.94	- 3 5.3	2.138	3.037	10.5	21.0	8 9	23 23.35	-15 16.7	2.253	3.168	9.4	21.2
8 19	23 15.38	- 3 40.7	2.092	3.053	7.2	20.9	8 19	23 17.14	-15 55.2	2.188	3.156	6.4	21.0
8 29	23 8.59	- 4 24.6	2.071	3.069	3.5	20.7	8 29	23 9.52	-16 33.1	2.148	3.143	3.8	20.8
9 8	23 1.24	- 5 12.5	2.077	3.084	0.5	20.4	9 8	23 1.15	-17 5.2	2.137	3.131	3.7	20.8
9 18	22 54.08	- 5 59.6	2.112	3.100	4.1	20.8	9 18	22 52.82	-17 27.2	2.154	3.118	6.3	20.9
9 28	22 47.85	- 6 41.2	2.175	3.116	7.6	21.0	9 28	22 45.37	-17 35.8	2.197	3.105	9.3	21.1
10 8	22 43.15	- 7 13.7	2.263	3.131	10.6	21.2	10 8	22 39.49	-17 29.7	2.265	3.091	12.2	21.3
350484	1999 <i>TP</i> ₁₀₉		9 6.8 332°74	8°6/14.8	18		284951	2010 <i>EW</i> ₁₂₆		9 6.8 188°43	3°0/ 9.8	18	
7 30	23 16.39	+15 27.1	1.369	2.150	21.8	20.1	7 30	23 27.71	+ 4 44.4	2.208	2.985	14.6	20.9
8 9	23 15.91	+15 54.2	1.275	2.129	19.1	19.8	8 9	23 23.43	+ 4 45.9	2.117	2.985	12.0	20.7
8 19	23 12.91	+15 49.1	1.196	2.109	15.8	19.6	8 19	23 17.23	+ 4 31.7	2.046	2.984	8.9	20.5
8 29	23 7.77	+15 6.9	1.135	2.089	12.3	19.3	8 29	23 9.57	+ 4 2.5	2.000	2.982	5.5	20.3
9 8	23 1.34	+13 47.1	1.094	2.071	9.4	19.1	9 8	23 1.14	+ 3 20.8	1.981	2.980	3.1	20.2
9 18	22 54.76	+11 54.9	1.076	2.054	8.8	19.0	9 18	22 52.75	+ 2 31.1	1.991	2.978	4.4	20.3
9 28	22 49.35	+ 9 41.3	1.080	2.039	11.3	19.1	9 28	22 45.25	+ 1 38.8	2.028	2.975	7.7	20.5
10 8	22 46.22	+ 7 21.8	1.107	2.025	15.1	19.3	10 8	22 39.35	+ 0 49.3	2.091	2.972	10.9	20.6
153193	2000 <i>VJ</i> ₄₂		9 6.8 8°56	2°5/ 5.2	18		4627	<i>Pinomogavero</i>		9 6.8 9°08	1°6/ 5.1	18	
7 30	23 24.36	-10 1.0	1.094	1.974	19.8	19.1	7 30	23 24.41	- 7 47.1	1.899	2.740	14.3	17.0
8 9	23 22.35	-10 11.1	1.038	1.976	15.4	18.8	8 9	23 21.11	- 8 26.2	1.824	2.741	11.1	16.8
8 19	23 17.21	-10 32.6	1.000	1.980	10.3	18.5	8 19	23 15.76	- 9 15.8	1.770	2.742	7.4	16.6
8 29	23 9.70	-10 59.2	0.982	1.985	5.0	18.3	8 29	23 8.88	-10 11.3	1.742	2.743	3.5	16.3
9 8	23 1.09	-11 23.1	0.987	1.991	3.0	18.2	9 8	23 1.24	-11 6.4	1.739	2.744	2.0	16.2
9 18	22 52.86	-11 37.0	1.014	2.000	7.8	18.5	9 18	22 53.73	-11 55.1	1.765	2.745	5.7	16.5
9 28	22 46.43	-11 35.5	1.063	2.010	12.9	18.8	9 28	22 47.26	-12 32.2	1.816	2.747	9.5	16.7
10 8	22 42.77	-11 16.7	1.132	2.021	17.3	19.1	10 8	22 42.56	-12 54.5	1.891	2.749	12.9	16.9
406270	2007 <i>EB</i> ₆₁		9 6.8 139°62	1°3/ 5.4	18		7958	<i>Leakey</i>		9 6.8 354°26	11°7/19.4	18	

EPHEMERIDES

9 6.8

9 6.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
71937	2000 <i>WT</i> ₇₀		9 6.8 175°30	1.7/ 8.1	18		307566	2003 <i>FK</i> ₂₂		9 6.8 76°55	5.6/ 2.8	17	
7 30	23 31.86	- 0 19.4	1.732	2.540	16.8	19.9	7 30	23 36.83	-15 11.1	1.290	2.148	18.8	20.3
8 9	23 27.16	- 0 18.8	1.650	2.542	13.5	19.7	8 9	23 31.21	-16 25.4	1.258	2.183	14.4	20.1
8 19	23 20.01	- 0 33.9	1.589	2.544	9.5	19.5	8 19	23 22.62	-17 44.0	1.246	2.217	9.8	19.9
8 29	23 10.96	- 1 2.7	1.551	2.545	5.1	19.2	8 29	23 12.04	-18 56.4	1.257	2.250	6.2	19.8
9 8	23 0.94	- 1 40.9	1.540	2.546	1.7	19.0	9 8	23 0.86	-19 52.4	1.293	2.283	6.2	19.9
9 18	22 51.04	- 2 23.1	1.557	2.546	5.1	19.2	9 18	22 50.50	-20 25.6	1.355	2.315	9.6	20.2
9 28	22 42.38	- 3 3.1	1.600	2.546	9.4	19.5	9 28	22 42.18	-20 33.8	1.440	2.347	13.3	20.5
10 8	22 35.84	- 3 35.4	1.667	2.545	13.3	19.7	10 8	22 36.66	-20 18.7	1.546	2.378	16.6	20.8
316047	2009 <i>HN</i> ₂₅		9 6.8 128°20	4.7/ 2.9	17		159776	Eduardoröhl		9 6.8 9°65	0.5/ 6.2	18	
7 30	23 31.71	-14 27.0	1.559	2.413	16.3	21.0	7 30	23 15.38	+ 0 42.2	1.165	2.027	20.1	18.7
8 9	23 27.20	-15 30.7	1.499	2.422	12.6	20.7	8 9	23 15.15	- 0 48.3	1.103	2.030	15.8	18.4
8 19	23 20.06	-16 41.1	1.460	2.431	8.7	20.5	8 19	23 12.29	- 2 49.2	1.059	2.034	10.7	18.1
8 29	23 10.95	-17 49.8	1.445	2.440	5.3	20.4	8 29	23 7.39	- 5 12.6	1.037	2.039	5.0	17.8
9 8	23 0.96	-18 47.8	1.457	2.448	5.4	20.4	9 8	23 1.48	- 7 44.6	1.039	2.046	1.2	17.6
9 18	22 51.29	-19 28.0	1.494	2.456	8.7	20.6	9 18	22 55.77	-10 9.5	1.065	2.054	6.9	18.0
9 28	22 43.14	-19 46.3	1.556	2.464	12.4	20.9	9 28	22 51.49	-12 12.9	1.115	2.064	12.2	18.3
10 8	22 37.36	-19 42.3	1.640	2.471	15.8	21.1	10 8	22 49.52	-13 46.2	1.186	2.075	16.8	18.6
369503	2010 <i>VO</i> ₄₇		9 6.8 340°11	7.4/ 12.1	18		279204	2009 <i>UM</i> ₈		9 6.8 332°80	1.0/ 8.7	17	
7 30	23 22.20	+ 9 16.9	1.181	1.999	22.6	20.5	7 30	23 16.67	+ 1 40.2	4.090	4.872	8.3	20.4
8 9	23 20.77	+10 5.8	1.104	1.988	19.3	20.3	8 9	23 14.01	+ 1 9.1	3.993	4.869	6.6	20.2
8 19	23 16.36	+10 27.1	1.042	1.979	15.3	20.0	8 19	23 10.45	+ 0 29.3	3.919	4.866	4.7	20.1
8 29	23 9.47	+10 17.3	0.998	1.971	11.0	19.8	8 29	23 6.23	- 0 17.6	3.873	4.863	2.6	20.0
9 8	23 1.14	+ 9 36.7	0.974	1.964	7.8	19.6	9 8	23 1.69	- 1 9.2	3.855	4.860	1.0	19.8
9 18	22 52.76	+ 8 30.7	0.972	1.957	8.2	19.6	9 18	22 57.16	- 2 2.9	3.868	4.857	2.3	19.9
9 28	22 45.86	+ 7 9.9	0.993	1.952	11.9	19.8	9 28	22 53.04	- 2 55.8	3.911	4.855	4.4	20.1
10 8	22 41.65	+ 5 47.0	1.033	1.948	16.3	20.0	10 8	22 49.64	- 3 45.0	3.981	4.852	6.4	20.2
128300	2003 <i>YH</i> ₈₀		9 6.8 266°62	2.4/ 4.4	18		71872	2000 <i>VB</i> ₄₂		9 6.8 132°86	1.4/ 7.9	18	
7 30	23 26.75	-10 13.8	2.038	2.877	13.6	20.7	7 30	23 30.63	- 0 9.5	1.618	2.433	17.5	19.8
8 9	23 22.97	-10 55.6	1.945	2.861	10.6	20.5	8 9	23 26.27	- 0 21.9	1.546	2.442	14.0	19.6
8 19	23 17.10	-11 46.6	1.873	2.844	7.1	20.3	8 19	23 19.43	- 0 51.9	1.493	2.451	9.8	19.4
8 29	23 9.58	-12 41.8	1.827	2.827	3.6	20.0	8 29	23 10.70	- 1 36.5	1.464	2.460	5.2	19.1
9 8	23 1.15	-13 35.1	1.808	2.810	2.9	19.9	9 8	23 1.06	- 2 30.5	1.461	2.468	1.4	18.9
9 18	22 52.68	-14 20.6	1.817	2.792	6.2	20.1	9 18	22 51.64	- 3 27.0	1.485	2.475	5.2	19.2
9 28	22 45.15	-14 53.0	1.853	2.774	10.0	20.3	9 28	22 43.56	- 4 18.9	1.536	2.482	9.7	19.4
10 8	22 39.35	-15 9.6	1.912	2.757	13.4	20.5	10 8	22 37.67	- 5 0.4	1.610	2.489	13.6	19.7
270468	2002 <i>CB</i> ₂₉₅		9 6.8 67°18	6.8/ 31.7	18		443648	2014 <i>OO</i> ₃₁₆		9 6.8 250°56	4.2/ 1.6	18	
7 30	23 28.67	-19 58.5	1.602	2.465	15.4	19.6	7 30	23 23.88	-16 31.2	2.393	3.240	11.5	21.2
8 9	23 24.81	-21 17.7	1.549	2.474	12.1	19.4	8 9	23 20.37	-17 38.4	2.316	3.235	8.9	21.0
8 19	23 18.42	-22 38.3	1.518	2.484	8.9	19.3	8 19	23 15.12	-18 49.5	2.263	3.230	6.3	20.8
8 29	23 10.16	-23 50.8	1.511	2.493	6.9	19.2	8 29	23 8.57	-19 58.9	2.236	3.225	4.4	20.7
9 8	23 1.09	-24 46.0	1.529	2.503	7.6	19.3	9 8	23 1.36	-21 0.2	2.237	3.220	4.8	20.7
9 18	22 52.36	-25 17.8	1.572	2.512	10.2	19.4	9 18	22 54.23	-21 48.4	2.266	3.214	7.1	20.8
9 28	22 45.10	-25 23.6	1.638	2.522	13.3	19.7	9 28	22 47.92	-22 19.8	2.321	3.209	9.8	21.0
10 8	22 40.10	-25 4.7	1.725	2.532	16.2	19.9	10 8	22 43.07	-22 33.2	2.399	3.203	12.3	21.2
347980	2003 <i>SQ</i> ₉₁		9 6.8 273°95	3.0/ 9.9	18		344742	2003 <i>UW</i> ₂₂₅		9 6.8 253°14	4.2/ 3.0	18	
7 30	23 24.44	+ 5 59.7	2.075	2.857	15.3	21.8	7 30	23 30.89	-16 24.2	2.046	2.888	13.4	21.2
8 9	23 21.25	+ 5 39.6	1.961	2.832	12.6	21.6	8 9	23 26.18	-17 1.0	1.959	2.875	10.5	21.0
8 19	23 16.02	+ 4 59.3	1.867	2.806	9.5	21.3	8 19	23 19.26	-17 41.4	1.895	2.862	7.3	20.8
8 29	23 9.13	+ 3 59.3	1.797	2.780	5.9	21.1	8 29	23 10.62	-18 19.4	1.856	2.848	4.6	20.6
9 8	23 1.21	+ 2 42.8	1.753	2.754	3.1	20.8	9 8	23 1.07	-18 49.1	1.844	2.835	4.6	20.6
9 18	22 53.12	+ 1 15.4	1.737	2.727	4.7	20.9	9 18	22 51.58	-19 5.3	1.861	2.821	7.4	20.7
9 28	22 45.81	- 0 15.2	1.750	2.699	8.4	21.1	9 28	22 43.16	-19 4.8	1.903	2.806	10.8	20.9
10 8	22 40.11	- 1 41.2	1.787	2.671	12.2	21.2	10 8	22 36.62	-18 47.0	1.968	2.792	13.9	21.1
66171	1998 <i>VW</i> ₃₆		9 6.8 330°14	5.6/ 12.7	18		325491	2009 <i>RP</i> ₁₇		9 6.8 333°90	6.7/ 1.3	18	
7 30	23 21.68	+11 34.3	2.036	2.795	16.3	19.0	7 30	23 32.85	-25 6.8	2.020	2.864	13.5	19.8
8 9	23 19.03	+11 53.4	1.940	2.785	13.9	18.8	8 9	23 27.68	-25 36.6	1.947	2.856	10.9	19.6
8 19	23 14.44	+11 52.0	1.862	2.775	11.1	18.6	8 19	23 20.20	-26 2.1	1.896	2.849	8.4	19.4
8 29	23 8.31	+11 28.9	1.807	2.765	8.2	18.4	8 29	23 11.01	-26 16.8	1.870	2.842	6.8	19.3
9 8	23 1.34	+10 45.4	1.775	2.756	6.0	18.2	9 8	23 1.03	-26 14.8	1.870	2.835	7.2	19.3
9 18	22 54.34	+ 9 45.1	1.770	2.747	6.0	18.2	9 18	22 51.31	-25 52.7	1.897	2.829	9.3	19.5
9 28	22 48.19	+ 8 34.3	1.790	2.739	8.4	18.3	9 28	22 42.88	-25 9.9	1.948	2.823	12.0	19.6
10 8	22 43.67	+ 7 20.5	1.836	2.731	11.4	18.5	10 8	22 36.50	-24 8.4	2.023	2.818	14.6	19.8
316446	2010 <i>UT</i> ₅₃		9 6.8 260°83	1.5/ 9.7	16		82728	2001 <i>PW</i> ₅₅		9 6.8 41°62	0.6/ 6.3	17	
7 30	23 17.83	+ 3 22.2	4.459	5.226	7.9	21.2	7 30	23 25.47	- 3 47.6	1.262	2.117	19.3	20.2
8 9	23 14.81	+ 3 14.3	4.357	5.220	6.4	21.1	8 9	23 22.73	- 4 26.6	1.208	2.130	15.1	20.0
8 19	23 10.93	+ 2 58.8	4.278	5.214	4.7	20.9	8 19	23 17.23	- 5 24.3	1.172	2.145	10.1	19.8
8 29	23 6.44	+ 2 36.4	4.226	5.208	2.9	20.8	8 29	23 9.68	- 6 34.4	1.158	2.160	4.7	19.5
9 8	23 1.63	+ 2 8.7	4.202	5.202	1.5	20.7	9 8	23 1.22	- 7 48.0	1.169	2.176	1.2	19.3
9 18	22 56.83	+ 1 37.6	4.208	5.196	2.3	20.8	9 18	22 53.15	- 8 55.7	1.204	2.192	6.4	19.7
9 28	22 52.40	+ 1 5.3	4.244	5.189	4.1	20.9	9 28	22 46.68	- 9 49.1	1.263	2.209	11.4	20.0
10 8	22 48.64	+ 0 34.2	4.308	5.183	5.9	21.0	10 8	22 42.67	-10 23.6	1.343	2.226	15.6	20.3
137353	1999 <i>TW</i> ₁₀₄		9 6.8 6°36	3.6/ 9.3	18	R	133639	2003 <i>UL</i> ₁₄₆		9 6.8 29°84	4.7/ 11.8</		

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
127185	2002 <i>GL</i> ₁₇₁		9 6.8 199°37	5°8/ 2.0 18			449401	2013 <i>GW</i> ₁₃₂		9 6.8 93°99	4°9/ 2.0 18		
7 30	23 34.51	-21 5.9	1.903	2.747	14.2	20.0	7 30	23 29.97	-20 13.0	2.224	3.067	12.4	21.3
8 9	23 29.06	-21 45.1	1.832	2.746	11.3	19.8	8 9	23 25.14	-20 49.7	2.155	3.069	9.8	21.1
8 19	23 21.18	-22 23.5	1.783	2.744	8.3	19.6	8 19	23 18.34	-21 26.3	2.108	3.070	7.1	21.0
8 29	23 11.50	-22 54.2	1.759	2.742	6.1	19.5	8 29	23 10.10	-21 56.9	2.088	3.072	5.1	20.9
9 8	23 0.97	-23 10.6	1.762	2.740	6.4	19.5	9 8	23 1.21	-22 16.3	2.095	3.074	5.4	20.9
9 18	22 50.70	-23 8.3	1.792	2.738	8.8	19.7	9 18	22 52.54	-22 20.7	2.129	3.075	7.6	21.0
9 28	22 41.78	-22 45.7	1.847	2.735	11.9	19.8	9 28	22 44.95	-22 8.2	2.189	3.077	10.3	21.2
10 8	22 35.02	-22 4.1	1.925	2.732	14.8	20.0	10 8	22 39.10	-21 39.4	2.273	3.079	12.8	21.4
316970	2001 <i>FT</i> ₁₂₀		9 6.8 119°87	0°4/ 6.4 17			293064	2006 <i>WT</i> ₁₅₃		9 6.8 231°61	1°1/ 8.1 18		
7 30	23 29.87	- 3 31.7	1.787	2.609	15.9	21.2	7 30	23 24.76	+ 0 15.0	2.372	3.171	13.1	21.4
8 9	23 25.35	- 4 15.3	1.722	2.626	12.4	21.0	8 9	23 21.06	- 0 7.5	2.275	3.163	10.5	21.3
8 19	23 18.61	- 5 13.4	1.678	2.643	8.3	20.8	8 19	23 15.63	- 0 43.6	2.200	3.154	7.4	21.0
8 29	23 10.24	- 6 21.2	1.659	2.659	3.9	20.6	8 29	23 8.86	- 1 31.1	2.151	3.145	3.9	20.8
9 8	23 1.15	- 7 31.8	1.667	2.674	0.9	20.4	9 8	23 1.38	- 2 26.2	2.129	3.135	1.1	20.6
9 18	22 52.33	- 8 38.3	1.703	2.689	5.3	20.7	9 18	22 53.89	- 3 24.2	2.136	3.125	3.9	20.8
9 28	22 44.76	- 9 34.2	1.766	2.703	9.4	21.0	9 28	22 47.18	- 4 19.7	2.172	3.115	7.4	21.0
10 8	22 39.17	-10 15.4	1.854	2.716	12.9	21.3	10 8	22 41.88	- 5 8.1	2.233	3.105	10.6	21.2
356378	2010 <i>NX</i> ₁₁₃		9 6.8 26°89	1°8/ 8.8 18			251851	1999 <i>TG</i> ₃₃₃		9 6.8 159°45	0°4/ 6.4 18		
7 30	23 20.90	+ 3 40.7	1.841	2.650	16.0	20.2	7 30	23 25.44	- 5 17.2	2.402	3.220	12.4	21.4
8 9	23 18.44	+ 2 58.9	1.765	2.656	12.8	20.0	8 9	23 21.46	- 5 39.4	2.320	3.222	9.7	21.2
8 19	23 14.00	+ 1 56.5	1.709	2.662	9.2	19.8	8 19	23 15.80	- 6 10.9	2.260	3.224	6.5	21.0
8 29	23 8.09	+ 0 36.7	1.677	2.669	5.1	19.6	8 29	23 8.90	- 6 48.8	2.226	3.226	3.1	20.8
9 8	23 1.45	- 0 54.7	1.671	2.676	1.9	19.4	9 8	23 1.38	- 7 28.8	2.220	3.227	0.7	20.6
9 18	22 54.94	- 2 29.9	1.692	2.684	4.4	19.6	9 18	22 53.96	- 8 6.8	2.243	3.229	4.2	20.9
9 28	22 49.43	- 4 0.7	1.741	2.691	8.4	19.8	9 28	22 47.37	- 8 38.7	2.294	3.230	7.6	21.1
10 8	22 45.63	- 5 19.9	1.814	2.700	12.0	20.1	10 8	22 42.19	- 9 1.3	2.371	3.231	10.5	21.3
84688	2002 <i>VO</i> ₁₀₂		9 6.8 216°15	1°3/ 5.5 18			92887	2000 <i>QP</i> ₂₃₀		9 6.8 52°05	2°1/ 4.9 18		
7 30	23 27.86	- 8 17.3	2.069	2.899	13.7	20.3	7 30	23 25.86	- 7 9.3	1.474	2.327	17.1	19.4
8 9	23 23.66	- 8 40.2	1.987	2.897	10.7	20.1	8 9	23 22.72	- 8 3.2	1.415	2.338	13.2	19.2
8 19	23 17.44	- 9 11.7	1.927	2.895	7.1	19.9	8 19	23 17.09	- 9 11.0	1.376	2.350	8.8	18.9
8 29	23 9.71	- 9 48.0	1.892	2.893	3.4	19.6	8 29	23 9.61	-10 26.0	1.360	2.361	4.1	18.7
9 8	23 1.22	-10 24.0	1.885	2.890	1.7	19.5	9 8	23 1.29	-11 39.5	1.369	2.374	2.6	18.6
9 18	22 52.83	-10 54.9	1.906	2.888	5.3	19.7	9 18	22 53.26	-12 43.0	1.405	2.386	6.8	18.9
9 28	22 45.44	-11 16.4	1.954	2.885	9.0	20.0	9 28	22 46.63	-13 30.0	1.465	2.399	11.1	19.2
10 8	22 39.76	-11 25.9	2.026	2.882	12.3	20.2	10 8	22 42.22	-13 57.1	1.547	2.411	14.9	19.5
17324	3292 <i>T</i> ₋₁		9 6.8 111°19	0°6/ 7.3 18			190302	1996 <i>XE</i> ₂₁		9 6.8 3°31	7°5/ 12.4 18		
7 30	23 27.35	- 2 33.1	1.855	2.676	15.4	19.3	7 30	23 25.12	+ 9 57.3	1.382	2.177	21.0	19.1
8 9	23 23.46	- 2 46.4	1.777	2.678	12.2	19.1	8 9	23 22.58	+10 55.9	1.308	2.176	17.9	18.9
8 19	23 17.41	- 3 13.4	1.719	2.681	8.4	18.9	8 19	23 17.31	+11 30.5	1.250	2.176	14.2	18.7
8 29	23 9.73	- 3 51.2	1.686	2.684	4.2	18.7	8 29	23 9.86	+11 37.9	1.212	2.177	10.5	18.5
9 8	23 1.23	- 4 34.9	1.679	2.686	0.7	18.4	9 8	23 1.24	+11 18.3	1.195	2.179	7.8	18.3
9 18	22 52.87	- 5 19.0	1.700	2.689	4.8	18.7	9 18	22 52.67	+10 35.6	1.202	2.181	8.0	18.4
9 28	22 45.60	- 5 57.9	1.747	2.691	8.9	19.0	9 28	22 45.50	+ 9 37.8	1.232	2.185	10.9	18.5
10 8	22 40.20	- 6 27.1	1.819	2.694	12.5	19.2	10 8	22 40.72	+ 8 35.0	1.284	2.189	14.5	18.8
342558	2008 <i>UW</i> ₂₄₅		9 6.8 6°72	2°0/ 5.6 18			75475	1999 <i>XC</i> ₁₆₆		9 6.8 229°28	5°5/ 2.8 18		
7 30	23 23.72	- 9 27.3	1.072	1.954	20.0	19.6	7 30	23 35.25	-18 22.5	1.651	2.500	15.8	18.7
8 9	23 21.93	- 9 29.5	1.016	1.955	15.6	19.3	8 9	23 30.08	-19 0.2	1.576	2.494	12.5	18.5
8 19	23 17.01	- 9 43.4	0.977	1.957	10.5	19.1	8 19	23 22.14	-19 40.1	1.522	2.488	8.9	18.3
8 29	23 9.69	-10 3.5	0.959	1.962	5.0	18.8	8 29	23 12.08	-20 14.6	1.492	2.482	6.0	18.1
9 8	23 1.25	-10 22.2	0.962	1.968	2.5	18.7	9 8	23 0.94	-20 35.9	1.488	2.475	6.0	18.1
9 18	22 53.16	-10 32.6	0.988	1.976	7.6	19.0	9 18	22 50.01	-20 38.6	1.511	2.469	9.0	18.3
9 28	22 46.88	-10 29.3	1.036	1.986	12.8	19.3	9 28	22 40.58	-20 20.1	1.558	2.461	12.7	18.5
10 8	22 43.38	-10 9.8	1.103	1.997	17.3	19.6	10 8	22 33.57	-19 41.4	1.628	2.454	16.2	18.7
113476	2002 <i>SM</i> ₅₈		9 6.8 37°07	6°8/ 1.1 18			274903	2009 <i>SK</i> ₁₀₆		9 6.8 334°38	3°5/ 9.3 18		
7 30	23 28.33	-20 41.3	1.585	2.450	15.5	18.6	7 30	23 23.40	+ 2 59.8	1.298	2.131	20.1	20.4
8 9	23 24.55	-21 46.4	1.534	2.460	12.2	18.4	8 9	23 21.43	+ 3 11.2	1.218	2.121	16.5	20.1
8 19	23 18.25	-22 51.4	1.504	2.470	9.0	18.3	8 19	23 16.66	+ 2 59.7	1.155	2.112	12.1	19.9
8 29	23 10.12	-23 47.6	1.498	2.481	6.9	18.2	8 29	23 9.61	+ 2 25.5	1.112	2.103	7.3	19.6
9 8	23 1.21	-24 26.5	1.517	2.492	7.5	18.2	9 8	23 1.27	+ 1 32.9	1.092	2.095	3.5	19.3
9 18	22 52.68	-24 43.0	1.560	2.503	10.1	18.4	9 18	22 52.92	+ 0 29.1	1.096	2.088	6.0	19.5
9 28	22 45.65	-24 34.9	1.627	2.515	13.2	18.6	9 28	22 45.96	- 0 36.4	1.123	2.081	11.0	19.7
10 8	22 40.87	-24 3.9	1.714	2.528	16.0	18.9	10 8	22 41.46	- 1 34.0	1.171	2.076	15.7	20.0
516961	2012 <i>DE</i> ₄₈		9 6.8 311°05	1°2/ 5.7 18			391875	2008 <i>TE</i> ₁₁₂		9 6.8 335°39	7°1/ 2.9 18		
7 30	23 28.41	- 9 7.2	2.236	3.063	12.9	21.0	7 30	23 35.98	-22 13.6	1.391	2.252	17.5	20.1
8 9	23 23.93	- 9 12.5	2.150	3.059	10.1	20.8	8 9	23 31.20	-22 30.0	1.319	2.241	14.1	19.9
8 19	23 17.56	- 9 24.2	2.087	3.055	6.8	20.6	8 19	23 23.17	-22 43.3	1.266	2.231	10.4	19.6
8 29	23 9.76	- 9 39.2	2.050	3.050	3.2	20.4	8 29	23 12.64	-22 44.9	1.236	2.222	7.5	19.4
9 8	23 1.25	- 9 53.7	2.041	3.046	1.5	20.3	9 8	23 0.87	-22 27.0	1.229	2.213	7.6	19.4
9 18	22 52.84	-10 3.9	2.060	3.042	4.8	20.5	9 18	22 49.42	-21 45.5	1.248	2.205	10.6	19.6
9 28	22 45.36	-10 6.7	2.107	3.038	8.4	20.7	9 28	22 39.80	-20 40.0	1.290	2.198	14.4	19.8
10 8	22 39.48	-10 0.1	2.178	3.034	11.5	20.9	10 8	22 33.07	-19 14.4	1.353	2.192	18.1	20.0
70776	1999 <i>VH</i> ₃₉		9 6.8 218°30	1°6/ 8.2 18			311113	2004 <i>LB</i> ₁₅		9 6.8 2			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
162391	2000 CZ ₄₃		9 6.8 252°84	3°3/ 9.9 18			176662	2002 OX ₂₆		9 6.8 83°50	1°5/ 8.0 17		
7 30	23 27.90	+ 4 36.6	2.184	2.962	14.7	20.4	7 30	23 27.34	+ 0 34.5	1.473	2.299	18.5	20.9
8 9	23 23.78	+ 4 50.1	2.079	2.947	12.2	20.2	8 9	23 23.99	+ 0 15.0	1.403	2.305	14.8	20.7
8 19	23 17.65	+ 4 48.5	1.995	2.932	9.1	19.9	8 19	23 18.06	- 0 24.7	1.351	2.312	10.4	20.4
8 29	23 9.92	+ 4 31.9	1.935	2.916	5.8	19.7	8 29	23 10.15	- 1 21.6	1.322	2.318	5.5	20.2
9 8	23 1.26	+ 4 2.2	1.902	2.900	3.4	19.5	9 8	23 1.26	- 2 29.4	1.318	2.324	1.5	19.9
9 18	22 52.51	+ 3 22.9	1.897	2.883	4.7	19.6	9 18	22 52.57	- 3 40.0	1.340	2.331	5.4	20.2
9 28	22 44.58	+ 2 39.2	1.920	2.867	8.0	19.8	9 28	22 45.26	- 4 44.9	1.387	2.337	10.1	20.5
10 8	22 38.26	+ 1 56.6	1.968	2.849	11.4	19.9	10 8	22 40.23	- 5 37.2	1.457	2.343	14.3	20.8
68626	2002 BK ₁₆		9 6.8 60°71	0°1/ 6.7 18			477031	2009 AR ₁₄		9 6.8 275°45	2°5/ 4.3 18		
7 30	23 25.08	- 1 41.7	1.555	2.389	17.3	19.2	7 30	23 25.90	- 9 15.8	1.926	2.767	14.1	22.5
8 9	23 21.93	- 2 34.4	1.497	2.407	13.5	19.0	8 9	23 22.53	- 10 8.5	1.829	2.746	11.0	22.3
8 19	23 16.45	- 3 45.4	1.458	2.425	9.1	18.8	8 19	23 16.98	- 11 12.8	1.754	2.726	7.4	22.0
8 29	23 9.28	- 5 9.2	1.443	2.443	4.3	18.5	8 29	23 9.66	- 12 23.5	1.704	2.704	3.7	21.8
9 8	23 1.37	- 6 37.5	1.455	2.462	0.7	18.3	9 8	23 1.33	- 13 33.5	1.682	2.683	3.0	21.7
9 18	22 53.76	- 8 1.5	1.492	2.480	5.5	18.7	9 18	22 52.90	- 14 35.6	1.686	2.661	6.6	21.9
9 28	22 47.46	- 9 13.3	1.556	2.499	9.9	19.0	9 28	22 45.42	- 15 23.5	1.717	2.640	10.6	22.1
10 8	22 43.23	- 10 7.7	1.643	2.518	13.6	19.3	10 8	22 39.73	- 15 53.4	1.771	2.618	14.2	22.2
241575	1995 SH ₂₁		9 6.8 308°67	0°1/ 6.7 18			309184	2007 CG ₅₂		9 6.8 152°62	4°2/ 1.4 18		
7 30	23 28.77	- 6 1.3	1.961	2.787	14.5	20.2	7 30	23 25.87	- 18 11.0	2.606	3.447	10.9	20.6
8 9	23 24.56	- 5 57.1	1.872	2.778	11.5	20.0	8 9	23 21.71	- 19 12.6	2.538	3.453	8.5	20.5
8 19	23 18.20	- 6 2.1	1.804	2.769	7.8	19.7	8 19	23 15.93	- 20 15.9	2.494	3.458	6.0	20.4
8 29	23 10.16	- 6 13.7	1.760	2.760	3.8	19.5	8 29	23 8.97	- 21 15.7	2.478	3.463	4.3	20.3
9 8	23 1.24	- 6 28.1	1.744	2.751	0.6	19.2	9 8	23 1.46	- 22 6.5	2.490	3.468	4.7	20.3
9 18	22 52.36	- 6 41.4	1.756	2.743	4.9	19.5	9 18	22 54.08	- 22 44.2	2.530	3.472	6.7	20.4
9 28	22 44.50	- 6 49.5	1.794	2.735	8.9	19.8	9 28	22 47.53	- 23 6.0	2.597	3.477	9.1	20.6
10 8	22 38.46	- 6 49.2	1.857	2.727	12.5	20.0	10 8	22 42.38	- 23 11.4	2.687	3.480	11.4	20.8
483989	2006 CY ₁₀		9 6.8 92°07	3°8/ 4.2 17 C			189239	2004 QR ₁₂		9 6.8 11°97	9°8/ 29.8 18		
7 30	23 47.02	- 11 27.4	1.423	2.249	19.0	24.0	7 30	23 16.49	- 19 16.6	0.935	1.847	19.5	18.1
8 9	23 38.65	- 12 33.2	1.390	2.297	14.5	23.8	8 9	23 16.73	- 21 21.7	0.899	1.852	15.4	17.9
8 19	23 27.39	- 13 46.2	1.378	2.344	9.6	23.7	8 19	23 13.68	- 23 29.8	0.882	1.860	11.6	17.7
8 29	23 14.28	- 14 57.0	1.392	2.389	5.1	23.5	8 29	23 8.17	- 25 24.3	0.884	1.870	9.8	17.6
9 8	23 0.73	- 15 56.2	1.433	2.431	4.3	23.6	9 8	23 1.57	- 26 49.6	0.907	1.882	11.1	17.8
9 18	22 48.18	- 16 37.3	1.503	2.472	8.0	23.9	9 18	22 55.43	- 27 36.1	0.949	1.896	14.4	18.0
9 28	22 37.85	- 16 57.4	1.600	2.511	11.9	24.2	9 28	22 51.20	- 27 41.0	1.010	1.912	18.1	18.3
10 8	22 30.43	- 16 57.2	1.719	2.548	15.3	24.6	10 8	22 49.74	- 27 8.3	1.087	1.930	21.4	18.6
483305	2015 UD ₅₆		9 6.8 13°80	1°7/ 5.1 18			94258	2001 CZ ₃₆		9 6.8 258°52	1°6/ 8.6 18		
7 30	23 24.47	- 8 32.1	1.922	2.764	14.1	20.8	7 30	23 23.38	+ 1 35.5	2.399	3.194	13.1	20.0
8 9	23 21.14	- 9 4.2	1.848	2.766	11.0	20.6	8 9	23 19.99	+ 1 16.2	2.301	3.185	10.5	19.8
8 19	23 15.81	- 9 45.7	1.797	2.768	7.3	20.4	8 19	23 14.93	+ 0 42.8	2.225	3.175	7.5	19.6
8 29	23 8.97	- 10 32.0	1.770	2.771	3.5	20.2	8 29	23 8.56	- 0 2.8	2.174	3.166	4.2	19.4
9 8	23 1.42	- 11 17.3	1.770	2.775	2.1	20.1	9 8	23 1.51	- 0 57.2	2.151	3.156	1.6	19.2
9 18	22 54.01	- 11 56.2	1.797	2.778	5.6	20.3	9 18	22 54.44	- 1 55.8	2.156	3.146	3.8	19.3
9 28	22 47.64	- 12 24.0	1.851	2.782	9.3	20.6	9 28	22 48.12	- 2 53.2	2.190	3.136	7.2	19.5
10 8	22 43.01	- 12 37.8	1.928	2.787	12.6	20.8	10 8	22 43.17	- 3 44.6	2.249	3.126	10.4	19.7
67541	2000 SO ₁₇		9 6.8 123°16	2°6/ 8.9 17			170949	2005 BA ₆		9 6.8 212°65	1°0/ 5.9 17		
7 30	23 28.62	+ 3 0.0	1.505	2.317	18.8	19.8	7 30	23 30.92	- 6 2.7	1.663	2.495	16.4	21.8
8 9	23 24.95	+ 2 48.2	1.432	2.324	15.2	19.6	8 9	23 26.66	- 6 30.4	1.580	2.491	12.9	21.5
8 19	23 18.69	+ 2 14.7	1.378	2.331	10.9	19.3	8 19	23 19.85	- 7 11.6	1.518	2.485	8.7	21.3
8 29	23 10.45	+ 1 21.5	1.347	2.338	6.3	19.1	8 29	23 11.04	- 8 1.6	1.479	2.480	4.1	21.0
9 8	23 1.21	+ 0 14.2	1.340	2.344	2.6	18.9	9 8	23 1.17	- 8 54.2	1.467	2.473	1.4	20.8
9 18	22 52.15	- 0 59.7	1.359	2.350	5.4	19.1	9 18	22 51.36	- 9 42.2	1.482	2.467	6.0	21.1
9 28	22 44.47	- 2 11.2	1.404	2.356	9.9	19.3	9 28	22 42.80	- 10 19.4	1.523	2.459	10.6	21.3
10 8	22 39.07	- 3 12.5	1.473	2.361	14.1	19.6	10 8	22 36.42	- 10 41.7	1.587	2.452	14.6	21.6
101852	1999 JY ₉₇		9 6.8 75°64	3°2/ 3.4 18			276740	2004 EA ₆₆		9 6.8 202°34	0°8/ 7.5 18		
7 30	23 24.23	- 8 11.3	1.627	2.479	15.8	19.5	7 30	23 30.00	- 1 51.2	1.894	2.706	15.5	21.5
8 9	23 21.31	- 9 46.8	1.563	2.488	12.1	19.3	8 9	23 25.60	- 2 6.0	1.807	2.702	12.3	21.3
8 19	23 16.10	- 11 36.5	1.522	2.497	8.0	19.1	8 19	23 18.96	- 2 35.1	1.740	2.698	8.6	21.0
8 29	23 9.16	- 13 32.1	1.506	2.506	4.1	18.9	8 29	23 10.57	- 3 15.9	1.697	2.694	4.3	20.8
9 8	23 1.39	- 15 22.9	1.516	2.515	3.9	18.9	9 8	23 1.24	- 4 3.7	1.682	2.689	0.8	20.5
9 18	22 53.83	- 16 59.3	1.554	2.524	7.6	19.1	9 18	22 51.96	- 4 52.9	1.695	2.683	4.8	20.8
9 28	22 47.49	- 18 14.0	1.617	2.533	11.5	19.4	9 28	22 43.75	- 5 37.3	1.735	2.677	9.1	21.0
10 8	22 43.16	- 19 3.7	1.702	2.542	14.9	19.6	10 8	22 37.44	- 6 12.2	1.799	2.670	12.8	21.3
168779	2000 RX ₄₈		9 6.8 305°08	2°9/ 8.5 18			306927	2001 UR ₅₆		9 6.8 299°07	1°6/ 5.4 18		
7 30	23 28.77	- 0 19.1	1.299	2.135	19.9	19.4	7 30	23 26.77	- 8 43.6	1.928	2.766	14.2	21.0
8 9	23 25.90	+ 0 12.6	1.208	2.115	16.3	19.1	8 9	23 23.09	- 9 6.0	1.840	2.755	11.1	20.8
8 19	23 19.93	+ 0 27.4	1.134	2.095	11.8	18.8	8 19	23 17.25	- 9 37.6	1.774	2.744	7.5	20.6
8 29	23 11.32	+ 0 25.3	1.081	2.075	6.8	18.5	8 29	23 9.75	- 10 14.2	1.732	2.732	3.6	20.3
9 8	23 1.06	+ 0 8.9	1.051	2.055	2.9	18.2	9 8	23 1.36	- 10 50.6	1.717	2.721	2.0	20.2
9 18	22 50.58	- 0 16.8	1.045	2.036	6.4	18.3	9 18	22 52.99	- 11 21.3	1.729	2.710	5.7	20.4
9 28	22 41.46	- 0 44.5	1.062	2.018	11.8	18.6	9 28	22 45.63	- 11 41.7	1.767	2.700	9.6	20.6
10 8	22 35.02	- 1 6.9	1.101	2.000	16.9	18.8	10 8	22 40.08	- 11 48.8	1.829	2.689	13.2	20.8
228310	2000 JV ₄₄		9 6.8 176°18	2°9/ 4.1 18									

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
523565	2018 CA ₆		9 6.8 243°85	4°9/ 2.5 18			346734	2009 AM ₄₉		9 6.8 164°40	2°3/ 9.2 18		
7 30	23 31.06	-17 21.2	1.860	2.708	14.3	20.9	7 30	23 25.73	+ 3 18.5	2.091	2.883	14.9	21.0
8 9	23 26.54	-18 7.8	1.782	2.700	11.2	20.7	8 9	23 22.01	+ 3 5.3	2.006	2.885	12.0	20.8
8 19	23 19.63	-18 57.8	1.725	2.692	7.9	20.5	8 19	23 16.38	+ 2 35.5	1.941	2.887	8.7	20.6
8 29	23 10.89	-19 44.4	1.693	2.684	5.3	20.3	8 29	23 9.30	+ 1 50.8	1.901	2.889	5.1	20.4
9 8	23 1.21	-20 20.4	1.688	2.675	5.5	20.3	9 8	23 1.47	+ 0 55.1	1.887	2.890	2.3	20.2
9 18	22 51.65	-20 40.3	1.710	2.666	8.3	20.5	9 18	22 53.71	- 0 6.6	1.902	2.892	4.3	20.4
9 28	22 43.30	-20 40.5	1.757	2.657	11.7	20.7	9 28	22 46.89	- 1 8.0	1.944	2.893	7.8	20.6
10 8	22 37.00	-20 21.1	1.826	2.648	14.9	20.9	10 8	22 41.69	- 2 3.4	2.012	2.894	11.2	20.8
479534	2014 BS ₃₈		9 6.8 153°41	1°2/ 5.5 18			128092	2003 PJ ₆		9 6.8 265°55	3°4/ 10.2 18		
7 30	23 26.20	- 6 4.3	2.087	2.914	13.7	21.6	7 30	23 27.21	+ 4 51.4	2.425	3.197	13.6	19.5
8 9	23 22.34	- 6 52.6	2.010	2.919	10.7	21.4	8 9	23 22.95	+ 5 16.3	2.330	3.192	11.2	19.4
8 19	23 16.56	- 7 52.4	1.955	2.923	7.1	21.2	8 19	23 16.93	+ 5 28.2	2.255	3.187	8.5	19.2
8 29	23 9.34	- 8 59.0	1.927	2.927	3.3	21.0	8 29	23 9.55	+ 5 27.1	2.205	3.181	5.5	19.0
9 8	23 1.43	-10 6.5	1.926	2.931	1.6	20.9	9 8	23 1.44	+ 5 14.4	2.182	3.176	3.5	18.8
9 18	22 53.64	-11 8.6	1.953	2.935	5.2	21.1	9 18	22 53.33	+ 4 52.8	2.187	3.171	4.4	18.9
9 28	22 46.81	-12 0.0	2.008	2.938	8.8	21.4	9 28	22 46.00	+ 4 26.1	2.220	3.166	7.2	19.1
10 8	22 41.64	-12 37.1	2.088	2.941	12.0	21.6	10 8	22 40.12	+ 3 58.8	2.280	3.161	10.1	19.2
291404	2006 CV ₆₅		9 6.8 185°08	2°0/ 4.6 18			100810	1998 FW ₁₁₉		9 6.8 85°10	0°8/ 6.1 18		
7 30	23 28.48	- 9 40.2	2.318	3.144	12.5	22.0	7 30	23 30.74	- 4 35.7	1.461	2.298	18.0	20.3
8 9	23 23.95	-10 24.9	2.236	3.145	9.7	21.8	8 9	23 26.45	- 5 15.9	1.407	2.320	14.0	20.1
8 19	23 17.58	-11 17.6	2.176	3.144	6.5	21.6	8 19	23 19.57	- 6 11.5	1.372	2.341	9.4	19.9
8 29	23 9.82	-12 13.6	2.144	3.143	3.2	21.4	8 29	23 10.82	- 7 16.8	1.361	2.362	4.3	19.6
9 8	23 1.37	-13 7.4	2.140	3.141	2.4	21.3	9 8	23 1.29	- 8 23.7	1.376	2.382	1.3	19.5
9 18	22 53.00	-13 54.1	2.165	3.139	5.4	21.5	9 18	22 52.17	- 9 24.1	1.417	2.403	6.1	19.8
9 28	22 45.54	-14 29.2	2.218	3.136	8.7	21.7	9 28	22 44.61	-10 11.5	1.484	2.423	10.6	20.1
10 8	22 39.63	-14 50.4	2.296	3.133	11.7	21.9	10 8	22 39.39	-10 41.9	1.573	2.442	14.4	20.4
513139	2002 CM ₂₇₄		9 6.8 162°85	0°3/ 7.2 18			20520	1999 RC ₃₈		9 6.8 234°93	2°9/ 10.1 18		
7 30	23 26.82	- 3 23.2	2.794	3.594	11.3	22.9	7 30	23 24.17	+ 6 33.8	2.080	2.859	15.3	17.2
8 9	23 22.27	- 3 37.0	2.709	3.599	8.9	22.7	8 9	23 20.94	+ 6 5.1	1.982	2.851	12.6	17.0
8 19	23 16.24	- 3 59.5	2.646	3.604	6.1	22.6	8 19	23 15.75	+ 5 15.9	1.904	2.842	9.4	16.8
8 29	23 9.12	- 4 28.4	2.611	3.608	3.0	22.4	8 29	23 9.05	+ 4 7.3	1.851	2.834	5.8	16.6
9 8	23 1.47	- 5 0.8	2.605	3.612	0.4	22.2	9 8	23 1.51	+ 2 43.5	1.824	2.824	3.0	16.4
9 18	22 53.91	- 5 33.1	2.628	3.616	3.5	22.4	9 18	22 53.95	+ 1 10.6	1.825	2.815	4.4	16.4
9 28	22 47.07	- 6 1.9	2.681	3.619	6.5	22.6	9 28	22 47.26	- 0 23.5	1.855	2.805	8.0	16.6
10 8	22 41.48	- 6 24.3	2.761	3.621	9.2	22.8	10 8	22 42.17	- 1 51.3	1.910	2.795	11.5	16.8
178037	2006 RA ₆₆		9 6.8 102°98	1°6/ 5.6 17			515101	2010 VQ ₁₆₁		9 6.8 279°71	4°8/ 1.7 18		
7 30	23 32.29	- 7 42.6	1.578	2.416	16.9	20.7	7 30	23 27.24	-18 54.2	2.239	3.086	12.2	21.6
8 9	23 27.54	- 8 12.6	1.518	2.432	13.1	20.5	8 9	23 23.17	-19 42.7	2.158	3.076	9.6	21.4
8 19	23 20.26	- 8 53.9	1.477	2.447	8.8	20.3	8 19	23 17.16	-20 33.0	2.101	3.066	6.9	21.3
8 29	23 11.14	- 9 41.2	1.461	2.462	4.1	20.1	8 29	23 9.67	-21 19.2	2.070	3.056	5.0	21.1
9 8	23 1.20	-10 27.4	1.471	2.476	2.0	19.9	9 8	23 1.44	-21 55.4	2.066	3.046	5.3	21.1
9 18	22 51.62	-11 5.9	1.508	2.491	6.2	20.3	9 18	22 53.29	-22 17.0	2.089	3.036	7.6	21.3
9 28	22 43.52	-11 31.8	1.571	2.504	10.5	20.5	9 28	22 46.09	-22 21.1	2.138	3.026	10.4	21.4
10 8	22 37.71	-11 42.3	1.657	2.518	14.3	20.8	10 8	22 40.54	-22 7.1	2.209	3.016	13.1	21.6
123491	2000 WV ₁₇₀		9 6.8 205°27	1°9/ 4.4 18			116915	2004 GG ₁₄		9 6.8 135°24	4°6/ 2.6 18		
7 30	23 24.56	- 9 29.0	2.501	3.331	11.6	20.2	7 30	23 29.10	-14 14.8	1.694	2.547	15.2	19.9
8 9	23 20.80	-10 17.6	2.417	3.328	9.0	20.0	8 9	23 25.08	-15 24.8	1.630	2.553	11.8	19.7
8 19	23 15.40	-11 13.9	2.356	3.325	6.0	19.8	8 19	23 18.66	-16 41.8	1.588	2.559	8.1	19.5
8 29	23 8.77	-12 13.7	2.321	3.321	3.0	19.6	8 29	23 10.43	-17 57.8	1.571	2.565	5.1	19.3
9 8	23 1.52	-13 11.9	2.316	3.317	2.3	19.6	9 8	23 1.34	-19 4.1	1.579	2.570	5.2	19.4
9 18	22 54.32	-14 3.5	2.339	3.313	5.1	19.8	9 18	22 52.48	-19 53.6	1.615	2.575	8.3	19.6
9 28	22 47.90	-14 44.3	2.390	3.308	8.2	20.0	9 28	22 44.94	-20 21.9	1.675	2.580	11.9	19.8
10 8	22 42.83	-15 11.8	2.466	3.303	10.9	20.1	10 8	22 39.52	-20 28.0	1.757	2.584	15.1	20.0
448843	2011 UT ₉₈		9 6.8 302°05	1°3/ 5.8 18			278352	2007 JL ₂₃		9 6.8 89°72	0°5/ 6.3 18		
7 30	23 28.08	- 8 23.8	1.822	2.660	15.0	21.0	7 30	23 27.77	- 3 13.2	1.785	2.609	15.8	20.2
8 9	23 24.39	- 8 34.8	1.722	2.637	11.8	20.7	8 9	23 23.71	- 4 4.4	1.726	2.631	12.3	20.0
8 19	23 18.35	- 8 55.3	1.644	2.613	8.0	20.4	8 19	23 17.52	- 5 10.3	1.688	2.653	8.2	19.8
8 29	23 10.38	- 9 21.5	1.589	2.590	3.8	20.1	8 29	23 9.80	- 6 25.6	1.674	2.674	3.8	19.6
9 8	23 1.29	- 9 48.4	1.561	2.567	1.7	19.9	9 8	23 1.43	- 7 43.3	1.688	2.695	0.9	19.4
9 18	22 52.09	-10 10.6	1.561	2.544	5.9	20.2	9 18	22 53.36	- 8 56.1	1.730	2.716	5.2	19.8
9 28	22 43.91	-10 23.2	1.586	2.522	10.3	20.4	9 28	22 46.51	- 9 57.4	1.799	2.736	9.2	20.1
10 8	22 37.66	-10 23.2	1.634	2.499	14.2	20.6	10 8	22 41.57	-10 43.3	1.892	2.756	12.6	20.3
254395	2004 TP ₂₂₆		9 6.8 20°32	3°5/ 3.7 18			218486	2004 TH ₁₇		9 6.8 354°61	5°3/ 13.2 18		
7 30	23 26.53	-13 57.5	1.785	2.639	14.5	19.8	7 30	23 23.41	+12 49.7	2.366	3.102	14.8	20.0
8 9	23 22.89	-14 30.6	1.721	2.645	11.2	19.6	8 9	23 20.07	+13 3.8	2.274	3.102	12.7	19.8
8 19	23 17.05	-15 8.7	1.678	2.651	7.6	19.4	8 19	23 15.01	+12 59.1	2.202	3.102	10.2	19.6
8 29	23 9.60	-15 46.2	1.660	2.658	4.3	19.2	8 29	23 8.64	+12 34.9	2.151	3.102	7.6	19.5
9 8	23 1.42	-16 16.6	1.668	2.665	4.0	19.2	9 8	23 1.58	+11 52.5	2.126	3.102	5.6	19.3
9 18	22 53.49	-16 35.1	1.703	2.673	7.0	19.4	9 18	22 54.54	+10 55.2	2.128	3.102	5.6	19.3
9 28	22 46.77	-16 38.2	1.762	2.681	10.5	19.6	9 28	22 48.29	+ 9 48.4	2.158	3.102	7.5	19.5
10 8	22 41.99	-16 25.1	1.845	2.690	13.7	19.9	10 8	22 43.47	+ 8 38.6	2.213	3.102	10.0	19.6
382401	1994 UK ₃		9 6.8 312°40	1°6/ 5.6 18			171685	2000 RV ₉₀		9 6.8 4°45	5°8/ 10.9 18		
7 30	23 25.66	- 7 14.4	1.368	2.226									

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
364512	2007 <i>EE</i> ₁₀₀		9 6.8 157°19	0°1/ 6.6 18			350504	1999 <i>XR</i> ₅₄		9 6.8 344°59	12°4/27.2 18		
7 30	23 24.68	- 4 7.3	2.616	3.427	11.7	22.1	7 30	23 21.49	-28 5.0	1.147	2.041	18.1	19.0
8 9	23 20.76	- 4 35.9	2.533	3.431	9.2	21.9	8 9	23 20.65	-29 51.5	1.090	2.024	15.3	18.8
8 19	23 15.30	- 5 14.2	2.473	3.435	6.2	21.7	8 19	23 16.50	-31 33.3	1.052	2.009	13.1	18.6
8 29	23 8.73	- 5 59.1	2.440	3.439	2.9	21.5	8 29	23 9.69	-32 55.4	1.034	1.995	12.5	18.5
9 8	23 1.60	- 6 46.8	2.435	3.442	0.5	21.3	9 8	23 1.50	-33 44.3	1.036	1.983	13.8	18.6
9 18	22 54.55	- 7 33.0	2.459	3.445	3.8	21.6	9 18	22 53.53	-33 51.8	1.058	1.973	16.5	18.7
9 28	22 48.25	- 8 13.7	2.512	3.448	7.0	21.8	9 28	22 47.40	-33 16.1	1.097	1.965	19.7	18.9
10 8	22 43.24	- 8 45.6	2.591	3.451	9.8	22.0	10 8	22 44.22	-32 2.0	1.152	1.958	22.7	19.0
107591	2001 <i>DA</i> ₁₀₂		9 6.8 335°23	5°5/ 2.7 18			479938	2014 <i>HT</i> ₁₄₅		9 6.8 348°01	4°0/ 2.9 18		
7 30	23 24.02	-13 33.8	1.155	2.039	18.7	18.6	7 30	23 25.29	-13 13.0	1.756	2.612	14.6	20.6
8 9	23 22.32	-14 37.8	1.087	2.027	14.7	18.3	8 9	23 22.11	-14 15.9	1.685	2.610	11.3	20.4
8 19	23 17.49	-15 53.7	1.038	2.017	10.1	18.1	8 19	23 16.68	-15 26.7	1.636	2.609	7.7	20.2
8 29	23 10.13	-17 11.7	1.009	2.007	6.2	17.8	8 29	23 9.53	-16 38.3	1.611	2.607	4.6	20.0
9 8	23 1.40	-18 19.5	1.003	1.998	6.4	17.8	9 8	23 1.54	-17 42.8	1.612	2.606	4.6	20.0
9 18	22 52.79	-19 6.7	1.020	1.991	10.5	18.0	9 18	22 53.68	-18 33.1	1.640	2.605	7.8	20.2
9 28	22 45.84	-19 26.3	1.058	1.984	15.2	18.3	9 28	22 46.97	-19 4.2	1.693	2.605	11.4	20.4
10 8	22 41.68	-19 16.8	1.114	1.978	19.5	18.5	10 8	22 42.21	-19 14.4	1.768	2.604	14.6	20.6
483206	2015 <i>PS</i> ₃₀₆		9 6.8 39°41	7°2/31.9 16			508013	2015 <i>BC</i> ₃₁₆		9 6.8 240°86	2°4/ 4.8 17		
7 30	23 28.07	-20 1.4	1.399	2.272	16.7	19.9	7 30	23 29.82	- 8 52.1	1.681	2.522	15.9	22.4
8 9	23 24.47	-21 22.0	1.367	2.298	13.1	19.8	8 9	23 25.89	- 9 36.1	1.594	2.511	12.4	22.2
8 19	23 18.22	-22 41.8	1.356	2.324	9.5	19.6	8 19	23 19.43	-10 32.2	1.528	2.499	8.4	21.9
8 29	23 10.15	-23 50.6	1.368	2.351	7.3	19.6	8 29	23 10.95	-11 34.9	1.487	2.487	4.1	21.6
9 8	23 1.44	-24 39.4	1.404	2.379	7.9	19.7	9 8	23 1.34	-12 36.7	1.471	2.474	2.9	21.5
9 18	22 53.32	-25 2.9	1.464	2.407	10.6	19.9	9 18	22 51.73	-13 29.8	1.483	2.461	6.9	21.7
9 28	22 46.88	-24 59.7	1.546	2.436	13.6	20.2	9 28	22 43.30	-14 8.0	1.521	2.448	11.3	22.0
10 8	22 42.82	-24 32.3	1.649	2.465	16.4	20.4	10 8	22 37.03	-14 27.6	1.581	2.434	15.2	22.2
504907	2011 <i>AD</i> ₅₃		9 6.8 184°43	3°0/ 3.8 17			130106	1999 <i>XT</i> ₄₇		9 6.8 224°86	7°5/14.8 18		
7 30	23 29.56	-11 17.1	1.975	2.812	14.0	22.1	7 30	23 25.56	+16 35.4	2.003	2.724	17.6	19.7
8 9	23 25.16	-12 14.5	1.898	2.813	10.8	21.9	8 9	23 22.19	+17 6.5	1.912	2.722	15.4	19.5
8 19	23 18.60	-13 20.4	1.843	2.813	7.3	21.7	8 19	23 16.71	+17 14.4	1.838	2.720	12.7	19.3
8 29	23 10.41	-14 28.9	1.814	2.812	3.9	21.5	8 29	23 9.58	+16 56.6	1.784	2.718	10.1	19.2
9 8	23 1.39	-15 32.7	1.813	2.811	3.5	21.5	9 8	23 1.53	+16 13.4	1.755	2.715	8.0	19.1
9 18	22 52.48	-16 25.6	1.840	2.809	6.7	21.7	9 18	22 53.47	+15 8.0	1.750	2.713	7.6	19.0
9 28	22 44.66	-17 2.5	1.893	2.806	10.3	21.9	9 28	22 46.38	+13 46.7	1.772	2.710	9.2	19.1
10 8	22 38.69	-17 21.4	1.970	2.803	13.5	22.1	10 8	22 41.05	+12 18.3	1.819	2.708	11.8	19.3
438288	2006 <i>AE</i> ₆₇		9 6.8 114°07	0°6/ 7.5 17			355664	2008 <i>EB</i> ₁₁₈		9 6.8 224°25	0°5/ 7.3 18		
7 30	23 28.33	- 1 8.7	2.008	2.816	14.8	21.9	7 30	23 25.18	- 2 10.2	2.178	2.991	13.7	22.2
8 9	23 23.97	- 1 37.8	1.938	2.832	11.7	21.7	8 9	23 21.55	- 2 33.1	2.091	2.989	10.8	22.0
8 19	23 17.64	- 2 21.2	1.890	2.849	8.1	21.5	8 19	23 16.08	- 3 8.7	2.026	2.986	7.5	21.7
8 29	23 9.88	- 3 15.4	1.868	2.864	4.0	21.3	8 29	23 9.20	- 3 54.2	1.986	2.983	3.7	21.5
9 8	23 1.47	- 4 15.2	1.873	2.880	0.7	21.1	9 8	23 1.60	- 4 45.4	1.973	2.980	0.5	21.3
9 18	22 53.27	- 5 14.9	1.906	2.894	4.4	21.4	9 18	22 54.05	- 5 37.0	1.989	2.977	4.2	21.5
9 28	22 46.15	- 6 8.5	1.967	2.909	8.2	21.7	9 28	22 47.38	- 6 23.8	2.032	2.974	8.0	21.8
10 8	22 40.77	- 6 51.8	2.053	2.923	11.5	21.9	10 8	22 42.26	- 7 1.5	2.100	2.971	11.3	22.0
431333	2006 <i>XM</i> ₂₉		9 6.8 253°21	4°9/ 2.4 18			45073	Doyanrose		9 6.8 322°06	2°8/ 5.2 18		
7 30	23 28.16	-14 22.6	1.627	2.484	15.6	21.5	7 30	23 29.64	-11 6.5	1.261	2.126	18.7	17.9
8 9	23 24.66	-15 34.3	1.550	2.475	12.1	21.3	8 9	23 26.56	-11 16.3	1.183	2.112	14.7	17.6
8 19	23 18.60	-16 54.7	1.494	2.466	8.4	21.0	8 19	23 20.34	-11 35.7	1.122	2.098	10.0	17.3
8 29	23 10.53	-18 15.5	1.463	2.457	5.4	20.8	8 29	23 11.53	-11 58.9	1.084	2.085	5.0	17.0
9 8	23 1.37	-19 27.4	1.458	2.448	5.6	20.8	9 8	23 1.28	-12 18.5	1.069	2.072	3.3	16.8
9 18	22 52.28	-20 22.0	1.478	2.438	9.0	21.0	9 18	22 51.06	-12 27.4	1.077	2.061	8.0	17.1
9 28	22 44.46	-20 53.7	1.523	2.429	12.8	21.2	9 28	22 42.45	-12 20.4	1.109	2.050	13.2	17.4
10 8	22 38.84	-21 1.0	1.589	2.419	16.3	21.4	10 8	22 36.62	-11 55.7	1.161	2.039	17.8	17.6
299737	2006 <i>RT</i> ₆₈		9 6.8 311°54	1°8/ 5.2 18			209672	2005 <i>CD</i> ₆₄		9 6.8 305°82	5°2/ 8.9 18		
7 30	23 28.01	- 9 23.2	1.944	2.781	14.2	20.7	7 30	23 40.64	+ 0 58.3	1.643	2.433	18.4	19.9
8 9	23 23.96	- 9 46.0	1.865	2.779	11.1	20.5	8 9	23 34.93	+ 2 31.8	1.530	2.405	15.4	19.6
8 19	23 17.79	-10 17.0	1.807	2.777	7.4	20.2	8 19	23 26.06	+ 3 58.8	1.438	2.377	11.7	19.3
8 29	23 10.02	-10 52.0	1.775	2.775	3.6	20.0	8 29	23 14.40	+ 5 16.6	1.369	2.350	7.7	19.0
9 8	23 1.45	-11 25.7	1.769	2.774	2.1	19.9	9 8	23 0.87	+ 6 22.6	1.328	2.322	5.2	18.8
9 18	22 53.00	-11 52.8	1.792	2.772	5.7	20.1	9 18	22 46.82	+ 7 15.2	1.314	2.295	7.2	18.8
9 28	22 45.63	-12 9.3	1.840	2.770	9.5	20.4	9 28	22 33.86	+ 7 55.6	1.328	2.268	11.5	19.0
10 8	22 40.07	-12 12.7	1.913	2.769	12.9	20.6	10 8	22 23.38	+ 8 27.3	1.366	2.242	15.8	19.2
78924	2003 <i>SD</i> ₁₁₁		9 6.8 329°38	8°7/ 1.2 17			24496	2001 <i>AV</i> ₁₇		9 6.8 242°69	0°0/ 6.7 18		
7 30	23 30.26	-21 44.0	1.184	2.064	18.6	19.0	7 30	23 26.47	- 2 51.0	2.215	3.027	13.5	19.9
8 9	23 27.31	-22 43.3	1.119	2.052	15.0	18.7	8 9	23 22.65	- 3 27.3	2.113	3.011	10.7	19.7
8 19	23 20.93	-23 43.4	1.072	2.041	11.3	18.5	8 19	23 16.91	- 4 17.2	2.034	2.996	7.3	19.5
8 29	23 11.78	-24 32.7	1.046	2.030	8.9	18.3	8 29	23 9.66	- 5 17.6	1.981	2.979	3.6	19.2
9 8	23 1.21	-24 59.5	1.042	2.020	9.5	18.3	9 8	23 1.54	- 6 23.5	1.955	2.962	0.5	18.9
9 18	22 50.88	-24 56.1	1.060	2.011	12.7	18.5	9 18	22 53.36	- 7 29.1	1.958	2.945	4.6	19.2
9 28	22 42.46	-24 20.1	1.099	2.003	16.8	18.7	9 28	22 45.99	- 8 28.6	1.989	2.927	8.4	19.4
10 8	22 37.10	-23 14.8	1.156	1.996	20.5	18.9	10 8	22 40.16	- 9 16.9	2.046	2.908	11.9	19.6
319626	2006 <i>SC</i> ₃₂₈		9 6.8 37°69	3°1/ 4.7 17			511014	2013 <i>PD</i> ₇₁		9 6.8			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
155471	1998 SC ₉₇		9 6.8 298°18	0°0/ 6.7 18			316444	2010 UJ ₄₉		9 6.9 241°49	1°2/ 5.5 18		
7 30	23 22.35	- 2 42.4	2.193	3.013	13.4	20.2	7 30	23 24.66	- 7 15.4	2.306	3.134	12.5	21.2
8 9	23 19.45	- 3 18.6	2.094	2.997	10.6	20.0	8 9	23 21.06	- 7 52.1	2.221	3.130	9.8	21.0
8 19	23 14.74	- 4 8.5	2.017	2.981	7.2	19.7	8 19	23 15.71	- 8 38.0	2.158	3.126	6.5	20.8
8 29	23 8.62	- 5 9.1	1.966	2.965	3.5	19.5	8 29	23 9.03	- 9 29.5	2.122	3.122	3.1	20.6
9 8	23 1.70	- 6 15.3	1.942	2.949	0.5	19.2	9 8	23 1.69	- 10 21.5	2.113	3.118	1.6	20.5
9 18	22 54.74	- 7 21.5	1.945	2.933	4.5	19.5	9 18	22 54.39	- 11 9.0	2.133	3.114	4.8	20.7
9 28	22 48.57	- 8 21.6	1.977	2.917	8.3	19.7	9 28	22 47.93	- 11 47.4	2.180	3.110	8.2	20.9
10 8	22 43.86	- 9 10.8	2.033	2.902	11.7	19.9	10 8	22 42.93	- 12 13.7	2.252	3.105	11.3	21.1
66120	1998 SF ₇₄		9 6.8 285°75	1°2/ 5.9 18			167482	2003 YH ₅₇		9 6.9 109°73	6°7/30.6 18		
7 30	23 26.43	- 5 22.1	1.588	2.429	16.6	19.7	7 30	23 28.38	- 22 31.4	2.000	2.853	13.2	19.6
8 9	23 23.52	- 6 0.0	1.491	2.407	13.2	19.4	8 9	23 24.23	- 23 55.9	1.947	2.863	10.5	19.4
8 19	23 18.03	- 6 54.4	1.414	2.384	9.0	19.1	8 19	23 17.94	- 25 19.4	1.916	2.873	8.1	19.3
8 29	23 10.39	- 8 1.3	1.360	2.361	4.2	18.8	8 29	23 10.10	- 26 33.8	1.911	2.882	6.7	19.2
9 8	23 1.45	- 9 13.2	1.332	2.338	1.6	18.6	9 8	23 1.56	- 27 31.5	1.932	2.891	7.5	19.3
9 18	22 52.34	- 10 21.8	1.329	2.314	6.5	18.8	9 18	22 53.26	- 28 7.5	1.979	2.900	9.6	19.4
9 28	22 44.33	- 11 18.7	1.352	2.291	11.4	19.1	9 28	22 46.15	- 28 19.5	2.050	2.909	12.1	19.6
10 8	22 38.48	- 11 58.0	1.398	2.268	15.8	19.3	10 8	22 40.93	- 28 8.4	2.142	2.918	14.5	19.8
312770	2010 UF ₅₆		9 6.8 275°14	0°4/ 6.0 16			333764	2011 CV ₄₁		9 6.9 70°43	1°9/ 8.4 17		
7 30	23 18.39	- 7 0.0	4.519	5.330	7.1	21.3	7 30	23 28.45	+ 0 57.5	1.532	2.351	18.2	20.9
8 9	23 15.30	- 7 18.2	4.425	5.325	5.5	21.2	8 9	23 24.69	+ 0 47.8	1.469	2.366	14.5	20.7
8 19	23 11.36	- 7 40.7	4.356	5.320	3.7	21.1	8 19	23 18.47	+ 0 19.2	1.424	2.382	10.3	20.5
8 29	23 6.81	- 8 5.8	4.315	5.315	1.7	20.9	8 29	23 10.41	+ 0 25.6	1.403	2.397	5.6	20.3
9 8	23 1.96	- 8 31.6	4.303	5.310	0.6	20.8	9 8	23 1.52	+ 1 21.0	1.406	2.412	1.9	20.1
9 18	22 57.13	- 8 56.0	4.322	5.305	2.5	21.0	9 18	22 52.91	+ 2 20.0	1.436	2.427	5.1	20.3
9 28	22 52.67	- 9 17.0	4.370	5.300	4.4	21.1	9 28	22 45.69	+ 3 15.0	1.492	2.443	9.5	20.6
10 8	22 48.89	- 9 33.2	4.445	5.295	6.2	21.2	10 8	22 40.66	+ 3 59.8	1.571	2.458	13.5	20.9
432907	2011 QH ₈		9 6.8 38°37	1°4/ 8.2 16			375664	2009 DZ ₁₂₇		9 6.9 134°98	0°5/ 7.6 18		
7 30	23 23.31	+ 1 51.6	1.345	2.180	19.4	20.5	7 30	23 21.24	- 1 52.7	3.434	4.230	9.5	21.8
8 9	23 20.88	+ 1 11.9	1.294	2.202	15.4	20.3	8 9	23 17.75	- 2 13.3	3.348	4.235	7.5	21.7
8 19	23 15.93	+ 0 9.0	1.262	2.224	10.7	20.1	8 19	23 13.13	- 2 41.8	3.286	4.241	5.1	21.5
8 29	23 9.17	+ 1 12.2	1.251	2.247	5.6	19.9	8 29	23 7.70	- 3 16.5	3.251	4.246	2.6	21.4
9 8	23 1.65	+ 2 43.1	1.265	2.272	1.4	19.7	9 8	23 1.88	- 3 54.8	3.245	4.252	0.5	21.2
9 18	22 54.50	+ 4 13.9	1.304	2.296	5.3	20.0	9 18	22 56.11	- 4 33.6	3.269	4.257	2.8	21.4
9 28	22 48.82	+ 5 35.0	1.369	2.321	10.0	20.4	9 28	22 50.88	- 5 10.0	3.322	4.262	5.3	21.6
10 8	22 45.35	+ 6 39.5	1.455	2.347	14.0	20.7	10 8	22 46.58	- 5 41.4	3.402	4.267	7.5	21.8
469727	2005 NK ₁		9 6.8 294°06	19°1/13.5 18			149714	2004 JZ ₁₄		9 6.9 36°61	1°7/ 5.4 18		
7 30	23 58.79	- 36 24.5	1.321	2.142	20.4	20.5	7 30	23 24.06	- 5 12.3	1.331	2.188	18.3	19.7
8 9	23 54.65	- 41 18.2	1.211	2.074	19.3	20.2	8 9	23 21.66	- 6 13.1	1.272	2.198	14.2	19.4
8 19	23 44.32	- 46 39.1	1.125	2.002	19.4	19.9	8 19	23 16.62	- 7 31.8	1.233	2.207	9.5	19.2
8 29	23 26.06	- 51 57.4	1.067	1.925	21.4	19.8	8 29	23 9.59	- 9 1.3	1.216	2.218	4.4	18.9
9 8	22 58.95	- 56 32.9	1.034	1.844	25.1	19.8	9 8	23 1.63	- 10 31.5	1.223	2.229	2.2	18.8
9 18	22 24.55	- 59 47.9	1.022	1.757	29.6	19.8	9 18	22 53.94	- 11 52.0	1.256	2.240	7.0	19.2
9 28	21 48.33	- 61 24.4	1.026	1.665	34.3	19.8	9 28	22 47.73	- 12 54.6	1.313	2.252	11.7	19.5
10 8	21 17.11	- 61 33.6	1.036	1.567	38.8	19.8	10 8	22 43.84	- 13 34.9	1.391	2.264	15.7	19.7
71147	1999 XZ ₁₈₃		9 6.8 238°71	6°2/12.4 18			50151	2000 AU ₁₄₀		9 6.9 248°59	2°0/ 8.7 18		
7 30	23 29.13	+ 11 13.3	2.073	2.817	16.4	19.3	7 30	23 27.44	+ 2 13.5	1.822	2.625	16.3	20.3
8 9	23 24.92	+ 11 57.3	1.977	2.811	14.0	19.1	8 9	23 23.90	+ 1 55.3	1.723	2.610	13.3	20.0
8 19	23 18.56	+ 12 23.2	1.899	2.804	11.3	18.9	8 19	23 18.05	+ 1 18.1	1.643	2.595	9.6	19.8
8 29	23 10.50	+ 12 29.1	1.844	2.797	8.4	18.7	8 29	23 10.33	+ 0 23.4	1.588	2.579	5.4	19.5
9 8	23 1.46	+ 12 15.1	1.814	2.790	6.4	18.6	9 8	23 1.52	+ 0 44.4	1.558	2.563	2.0	19.2
9 18	22 52.36	+ 11 43.5	1.811	2.783	6.6	18.6	9 18	22 52.60	- 1 58.8	1.556	2.546	4.9	19.4
9 28	22 44.17	+ 10 59.2	1.835	2.775	8.8	18.7	9 28	22 44.66	- 3 11.9	1.581	2.529	9.3	19.6
10 8	22 37.73	+ 10 8.8	1.883	2.767	11.7	18.9	10 8	22 38.63	- 4 16.4	1.630	2.512	13.3	19.8
135351	2001 TU ₆₈		9 6.8 109°12	2°5/ 4.6 18			77978	2002 JD ₂₁		9 6.9 68°97	2°2/ 5.3 18		
7 30	23 30.07	- 12 14.0	2.092	2.927	13.4	19.6	7 30	23 32.22	- 8 37.5	1.317	2.169	18.8	19.2
8 9	23 25.33	- 12 37.0	2.020	2.933	10.4	19.4	8 9	23 27.93	- 9 8.0	1.265	2.187	14.5	19.0
8 19	23 18.59	- 13 5.2	1.971	2.940	7.0	19.2	8 19	23 20.76	- 9 50.5	1.232	2.205	9.7	18.8
8 29	23 10.38	- 13 34.1	1.948	2.946	3.6	19.0	8 29	23 11.51	- 10 38.5	1.222	2.223	4.6	18.6
9 8	23 1.50	- 13 58.7	1.952	2.952	2.8	19.0	9 8	23 1.39	- 11 23.6	1.237	2.242	2.6	18.5
9 18	22 52.82	- 14 14.8	1.984	2.959	5.8	19.2	9 18	22 51.77	- 11 58.6	1.277	2.260	7.1	18.8
9 28	22 45.23	- 14 19.3	2.044	2.965	9.2	19.4	9 28	22 43.89	- 12 18.2	1.342	2.278	11.7	19.1
10 8	22 39.39	- 14 10.9	2.128	2.970	12.3	19.6	10 8	22 38.62	- 12 20.3	1.428	2.296	15.7	19.4
365797	2011 BW ₁₅		9 6.8 301°85	6°4/30.9 17			171466	6862 P-L		9 6.9 8°05	0°6/ 7.3 17		
7 30	23 17.26	- 3 11.5	0.954	1.839	21.6	20.1	7 30	23 18.46	- 0 54.7	0.928	1.807	22.6	19.7
8 9	23 17.67	- 6 48.5	0.876	1.821	16.7	19.7	8 9	23 18.28	- 1 21.5	0.873	1.807	18.0	19.4
8 19	23 14.85	- 11 18.4	0.819	1.804	11.0	19.3	8 19	23 14.87	- 2 16.2	0.833	1.810	12.4	19.1
8 29	23 9.15	- 16 22.9	0.787	1.787	6.6	19.0	8 29	23 8.93	- 3 33.5	0.812	1.813	6.2	18.8
9 8	23 1.62	- 21 29.4	0.780	1.771	8.9	19.1	9 8	23 1.72	- 5 3.0	0.812	1.819	0.8	18.5
9 18	22 53.84	- 26 2.4	0.798	1.755	15.0	19.4	9 18	22 54.77	- 6 31.2	0.832	1.826	7.0	18.9
9 28	22 47.69	- 29 35.9	0.838	1.739	20.9	19.6	9 28	22 49.64	- 7 45.2	0.874	1.835	12.9	19.3
10 8	22 44.65	- 32 1.5	0.895	1.724	25.9	19.9	10 8	22 47.36	- 8 36.6	0.935	1.845	18.1	19.6
218523	2004 TH ₂₇₄		9 6.8 19°25	9°2/17.6 18			512775	2016 UY ₆₄		9 6.9 54°48	1°7/ 8.3 18		

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
313943	2004 RR ₁₅₁		9 6.9 339°17	1°0/ 7.8 18			34277	Davidxingwu		9 6.9 21°10	1°2/ 5.8 18		
7 30	23 25.59	- 1 40.2	2.129	2.941	14.0	21.2	7 30	23 25.74	- 7 14.2	1.828	2.668	14.9	18.8
8 9	23 21.93	- 1 46.2	2.044	2.939	11.1	21.0	8 9	23 22.30	- 7 39.6	1.756	2.671	11.6	18.6
8 19	23 16.38	- 2 4.5	1.979	2.937	7.8	20.8	8 19	23 16.74	- 8 15.6	1.705	2.675	7.8	18.3
8 29	23 9.40	- 2 32.9	1.940	2.936	4.0	20.5	8 29	23 9.60	- 8 57.8	1.678	2.679	3.6	18.1
9 8	23 1.68	- 3 7.7	1.928	2.934	1.0	20.3	9 8	23 1.68	- 9 40.6	1.677	2.683	1.6	18.0
9 18	22 54.04	- 3 44.6	1.943	2.933	4.2	20.6	9 18	22 53.93	-10 18.2	1.704	2.688	5.5	18.2
9 28	22 47.29	- 4 18.6	1.986	2.932	7.9	20.8	9 28	22 47.29	-10 45.8	1.756	2.693	9.4	18.5
10 8	22 42.13	- 4 45.7	2.054	2.930	11.2	21.0	10 8	22 42.47	-11 0.3	1.833	2.698	12.9	18.7
159402	1999 AP ₁₀		9 6.9 341°88	7°6/ 5.5 18 R			429592	2011 EV ₆₁		9 6.9 113°11	5°5/ 2.1 17		
7 30	23 2.95	-19 28.4	0.594	1.542	21.8	17.0	7 30	23 30.75	-17 21.9	1.693	2.547	15.2	21.4
8 9	23 7.56	-19 10.5	0.487	1.465	18.1	16.3	8 9	23 26.40	-18 26.2	1.633	2.555	11.9	21.2
8 19	23 9.13	-18 40.0	0.393	1.390	13.8	15.6	8 19	23 19.59	-19 34.1	1.595	2.563	8.4	21.0
8 29	23 7.23	-17 35.9	0.312	1.316	9.3	14.8	8 29	23 10.97	-20 37.3	1.582	2.571	5.8	20.9
9 8	23 1.78	-15 19.9	0.242	1.247	7.8	14.1	9 8	23 1.52	-21 27.6	1.594	2.578	6.1	20.9
9 18	22 52.96	-10 45.4	0.183	1.183	12.9	13.5	9 18	22 52.36	-21 58.8	1.633	2.586	8.9	21.1
9 28	22 41.77	- 1 46.5	0.135	1.126	21.6	13.1	9 28	22 44.59	-22 7.9	1.696	2.593	12.2	21.4
10 8	22 29.04	+15 27.1	0.098	1.079	33.9	12.6	10 8	22 39.01	-21 55.0	1.781	2.600	15.3	21.6
159904	2004 VC ₉		9 6.9 268°62	2°5/ 3.9 18			515375	2013 EN ₇₃		9 6.9 167°24	0°7/ 5.9 18		
7 30	23 23.94	-11 5.4	2.414	3.251	11.8	20.2	7 30	23 24.73	- 5 9.3	2.547	3.362	11.9	22.8
8 9	23 20.50	-11 55.8	2.324	3.240	9.1	20.0	8 9	23 20.90	- 5 54.0	2.464	3.366	9.2	22.6
8 19	23 15.35	-12 53.5	2.258	3.228	6.1	19.8	8 19	23 15.50	- 6 48.7	2.404	3.369	6.2	22.4
8 29	23 8.90	-13 54.0	2.218	3.216	3.3	19.6	8 29	23 8.93	- 7 49.8	2.372	3.372	2.9	22.2
9 8	23 1.75	-14 51.9	2.206	3.204	2.9	19.5	9 8	23 1.78	- 8 52.6	2.368	3.374	1.0	22.1
9 18	22 54.62	-15 41.9	2.222	3.192	5.6	19.7	9 18	22 54.70	- 9 52.0	2.393	3.376	4.2	22.3
9 28	22 48.24	-16 19.8	2.266	3.180	8.7	19.9	9 28	22 48.38	-10 43.7	2.447	3.377	7.4	22.5
10 8	22 43.27	-16 43.1	2.333	3.168	11.6	20.1	10 8	22 43.39	-11 24.2	2.526	3.378	10.2	22.7
405491	2004 XF ₁₀₃		9 6.9 265°05	2°8/ 9.8 17			298676	2004 CU ₁₁₆		9 6.9 234°53	1°8/ 4.7 18		
7 30	23 27.34	+ 3 51.7	2.709	3.477	12.4	21.2	7 30	23 24.19	- 6 48.4	2.142	2.974	13.2	20.9
8 9	23 23.01	+ 4 8.3	2.595	3.458	10.2	21.0	8 9	23 20.91	- 7 57.1	2.055	2.967	10.3	20.7
8 19	23 17.01	+ 4 13.5	2.504	3.438	7.6	20.8	8 19	23 15.75	- 9 18.4	1.990	2.959	6.9	20.5
8 29	23 9.71	+ 4 7.3	2.437	3.417	4.9	20.6	8 29	23 9.14	-10 47.1	1.951	2.951	3.3	20.2
9 8	23 1.65	+ 3 51.2	2.399	3.397	2.8	20.5	9 8	23 1.75	-12 16.4	1.940	2.943	2.3	20.1
9 18	22 53.48	+ 3 27.7	2.390	3.376	4.0	20.5	9 18	22 54.37	-13 39.0	1.958	2.935	5.7	20.4
9 28	22 45.94	+ 3 0.3	2.410	3.355	6.7	20.6	9 28	22 47.84	-14 48.6	2.004	2.926	9.3	20.6
10 8	22 39.66	+ 2 33.1	2.456	3.333	9.6	20.8	10 8	22 42.87	-15 41.3	2.074	2.918	12.5	20.8
97397	2000 AG ₁₀₆		9 6.9 226°55	4°0/ 1.6 18			505887	2015 DL ₁₄₅		9 6.9 272°01	4°8/ 10.4 17		
7 30	23 24.22	-16 17.6	2.536	3.380	11.1	19.7	7 30	23 28.09	+ 6 7.1	1.498	2.298	19.4	22.2
8 9	23 20.62	-17 25.7	2.457	3.374	8.6	19.5	8 9	23 24.94	+ 6 28.8	1.407	2.287	16.2	21.9
8 19	23 15.37	-18 37.9	2.402	3.369	6.0	19.3	8 19	23 19.07	+ 6 28.4	1.334	2.275	12.3	21.6
8 29	23 8.88	-19 48.6	2.374	3.363	4.2	19.2	8 29	23 10.95	+ 6 4.8	1.282	2.262	8.1	21.4
9 8	23 1.76	-20 51.8	2.374	3.357	4.5	19.2	9 8	23 1.50	+ 5 20.0	1.253	2.250	5.0	21.2
9 18	22 54.68	-21 42.7	2.403	3.351	6.7	19.3	9 18	22 51.93	+ 4 19.6	1.250	2.238	6.3	21.2
9 28	22 48.38	-22 17.6	2.458	3.344	9.3	19.5	9 28	22 43.58	+ 3 12.0	1.271	2.225	10.4	21.4
10 8	22 43.44	-22 35.2	2.536	3.338	11.8	19.7	10 8	22 37.55	+ 2 6.5	1.316	2.213	14.8	21.6
424218	2007 RP ₈₀		9 6.9 49°52	0°2/ 6.9 16			364547	2007 GX ₁₈		9 6.9 199°13	3°5/ 11.4 18		
7 30	23 35.74	- 6 15.7	1.434	2.268	18.5	20.4	7 30	23 23.20	+ 8 26.4	2.558	3.315	13.3	21.2
8 9	23 30.29	- 5 54.2	1.384	2.294	14.4	20.2	8 9	23 19.78	+ 8 21.2	2.464	3.314	11.1	21.1
8 19	23 22.14	- 5 43.8	1.354	2.320	9.8	20.0	8 19	23 14.79	+ 7 59.8	2.390	3.312	8.5	20.9
8 29	23 12.10	- 5 41.3	1.347	2.347	4.7	19.8	8 29	23 8.62	+ 7 22.7	2.341	3.311	5.8	20.7
9 8	23 1.37	- 5 42.5	1.366	2.373	0.6	19.6	9 8	23 1.82	+ 6 32.2	2.318	3.310	3.7	20.6
9 18	22 51.22	- 5 43.0	1.412	2.401	5.6	20.0	9 18	22 55.06	+ 5 32.1	2.324	3.308	4.2	20.6
9 28	22 42.81	- 5 38.9	1.483	2.428	10.1	20.3	9 28	22 49.00	+ 4 27.4	2.358	3.306	6.7	20.8
10 8	22 36.91	- 5 27.4	1.577	2.455	13.9	20.6	10 8	22 44.23	+ 3 23.8	2.419	3.305	9.4	20.9
379207	2009 ST ₁₀₁		9 6.9 359°47	3°0/ 4.7 17			117102	2004 OF ₃		9 6.9 14°01	0°5/ 7.5 18		
7 30	23 17.62	- 8 7.7	0.949	1.845	20.8	19.6	7 30	23 20.84	- 1 55.0	2.668	3.478	11.5	19.1
8 9	23 17.63	- 8 52.6	0.892	1.840	16.2	19.4	8 9	23 17.82	- 2 18.4	2.585	3.480	9.1	19.0
8 19	23 14.47	- 9 56.3	0.852	1.836	10.9	19.1	8 19	23 13.38	- 2 52.4	2.524	3.483	6.3	18.8
8 29	23 8.76	-11 10.5	0.831	1.835	5.3	18.8	8 29	23 7.91	- 3 34.4	2.490	3.486	3.2	18.6
9 8	23 1.78	-12 23.0	0.831	1.835	3.7	18.7	9 8	23 1.92	- 4 20.8	2.483	3.490	0.5	18.4
9 18	22 55.02	-13 21.9	0.852	1.838	8.9	19.0	9 18	22 56.00	- 5 7.8	2.505	3.494	3.4	18.6
9 28	22 50.05	-13 57.8	0.893	1.843	14.4	19.3	9 28	22 50.76	- 5 51.2	2.555	3.498	6.5	18.9
10 8	22 47.89	-14 6.7	0.952	1.849	19.1	19.6	10 8	22 46.71	- 6 27.4	2.631	3.502	9.2	19.0
117953	6511 P-L		9 6.9 344°88	0°3/ 6.6 18			141807	2002 NM ₃₈		9 6.9 27°32	4°4/ 10.1 18		
7 30	23 19.99	- 5 3.0	1.051	1.930	20.5	19.1	7 30	23 23.26	+ 4 31.4	0.972	1.823	24.0	18.8
8 9	23 19.38	- 5 8.0	0.979	1.915	16.3	18.7	8 9	23 21.72	+ 4 48.5	0.927	1.839	19.5	18.5
8 19	23 15.68	- 5 31.8	0.924	1.902	11.2	18.4	8 19	23 16.98	+ 4 35.7	0.897	1.857	14.3	18.3
8 29	23 9.40	- 6 10.4	0.888	1.890	5.4	18.1	8 29	23 9.85	+ 3 54.5	0.886	1.876	8.8	18.1
9 8	23 1.68	- 6 56.3	0.873	1.880	0.9	17.7	9 8	23 1.68	+ 2 51.6	0.895	1.897	4.6	17.9
9 18	22 53.99	- 7 40.2	0.880	1.872	7.2	18.1	9 18	22 53.98	+ 1 37.5	0.925	1.919	6.6	18.1
9 28	22 47.91	- 8 12.8	0.908	1.865	13.0	18.4	9 28	22 48.20	+ 0 24.3	0.978	1.942	11.5	18.5
10 8	22 44.63	- 8 27.7	0.955	1.861	18.2	18.7	10 8	22 45.24	- 0 37.8	1.051	1.966	16.1	18.8
34530	2000 ST ₂₁₂		9 6.9 342°92	6°9/ 30.9 18			216579	2002 FU ₂₉		9 6.9 119°41	5°3/ 31.1 18		
7 30	23 24.77	-21 9.5	1.754	2.620	14.2								

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
487087	2014 <i>OD</i> ₁₂₁		9 6.9 236°63	3°9/ 2.1 18			255307	2005 <i>WR</i>		9 6.9 346°88	5°0/11.4 18		
7 30	23 24.54	-15 38.2	2.389	3.235	11.6	21.6	7 30	23 21.30	+ 7 46.5	1.655	2.451	18.0	19.3
8 9	23 20.96	-16 40.6	2.313	3.231	9.0	21.4	8 9	23 19.26	+ 8 7.0	1.568	2.442	15.1	19.1
8 19	23 15.65	-17 47.2	2.259	3.227	6.3	21.2	8 19	23 14.96	+ 8 5.8	1.499	2.434	11.6	18.8
8 29	23 9.04	-18 52.7	2.232	3.224	4.1	21.1	8 29	23 8.88	+ 7 42.2	1.451	2.427	8.0	18.6
9 8	23 1.78	-19 50.9	2.233	3.220	4.4	21.1	9 8	23 1.82	+ 6 58.2	1.427	2.420	5.3	18.4
9 18	22 54.59	-20 36.9	2.262	3.216	6.7	21.2	9 18	22 54.74	+ 5 58.9	1.428	2.415	5.9	18.5
9 28	22 48.24	-21 7.0	2.318	3.212	9.5	21.4	9 28	22 48.71	+ 4 51.7	1.454	2.410	9.2	18.6
10 8	22 43.34	-21 19.8	2.396	3.208	12.1	21.6	10 8	22 44.61	+ 3 45.1	1.504	2.407	12.9	18.9
506828	2007 <i>TE</i> ₈₂		9 6.9 339°62	3°4/ 4.9 17			353529	2011 <i>SQ</i> ₁₄₂		9 6.9 17°86	1°8/ 5.4 18		
7 30	23 25.37	-10 56.5	1.015	1.901	20.6	21.0	7 30	23 27.02	- 8 41.5	1.694	2.540	15.6	20.8
8 9	23 23.81	-11 14.6	0.947	1.888	16.2	20.7	8 9	23 23.49	- 9 6.1	1.624	2.542	12.1	20.6
8 19	23 18.80	-11 45.2	0.896	1.877	11.0	20.4	8 19	23 17.66	- 9 40.7	1.574	2.545	8.1	20.4
8 29	23 10.95	-12 21.3	0.864	1.866	5.6	20.1	8 29	23 10.10	-10 20.4	1.548	2.549	3.9	20.1
9 8	23 1.52	-12 53.2	0.853	1.857	3.9	20.0	9 8	23 1.69	-10 59.1	1.548	2.552	2.1	20.0
9 18	22 52.20	-13 11.8	0.864	1.849	9.1	20.2	9 18	22 53.47	-11 30.9	1.574	2.557	6.0	20.3
9 28	22 44.73	-13 10.5	0.896	1.843	14.7	20.5	9 28	22 46.47	-11 50.9	1.626	2.561	10.1	20.6
10 8	22 40.36	-12 47.0	0.946	1.838	19.7	20.8	10 8	22 41.47	-11 56.5	1.701	2.566	13.8	20.8
72585	2001 <i>FT</i> ₁		9 6.9 47°65	2°0/ 4.8 18			198102	2004 <i>SX</i> ₄₇		9 6.9 26°63	6°5/ 3.2 18		
7 30	23 26.19	-10 22.9	2.120	2.958	13.1	19.1	7 30	23 36.80	-21 12.6	1.416	2.274	17.4	19.0
8 9	23 22.31	-10 52.3	2.051	2.966	10.2	18.9	8 9	23 31.55	-21 31.6	1.359	2.280	13.8	18.7
8 19	23 16.57	-11 28.5	2.004	2.974	6.8	18.7	8 19	23 23.27	-21 48.3	1.321	2.287	10.0	18.5
8 29	23 9.47	-12 7.2	1.982	2.982	3.4	18.5	8 29	23 12.78	-21 54.6	1.307	2.294	7.0	18.4
9 8	23 1.74	-12 43.1	1.989	2.991	2.4	18.4	9 8	23 1.38	-21 43.6	1.317	2.302	7.0	18.4
9 18	22 54.19	-13 11.8	2.022	3.000	5.5	18.7	9 18	22 50.51	-21 11.6	1.352	2.310	9.8	18.6
9 28	22 47.64	-13 29.6	2.083	3.008	8.8	18.9	9 28	22 41.51	-20 18.6	1.411	2.319	13.5	18.9
10 8	22 42.71	-13 34.5	2.168	3.018	11.8	19.1	10 8	22 35.28	-19 7.6	1.491	2.328	16.8	19.1
519739	2013 <i>CJ</i> ₂₂₆		9 6.9 96°84	0°7/ 6.1 18			268861	2006 <i>XC</i> ₆₉		9 6.9 175°25	6°3/ 1.3 17		
7 30	23 26.23	- 5 49.9	2.340	3.160	12.6	21.9	7 30	23 32.36	-20 9.4	1.793	2.643	14.6	20.5
8 9	23 22.10	- 6 21.4	2.272	3.175	9.8	21.7	8 9	23 27.65	-21 15.1	1.727	2.645	11.6	20.3
8 19	23 16.30	- 7 2.1	2.226	3.191	6.6	21.6	8 19	23 20.48	-22 22.1	1.684	2.646	8.5	20.1
8 29	23 9.30	- 7 48.3	2.207	3.207	3.0	21.4	8 29	23 11.45	-23 22.1	1.665	2.647	6.4	20.0
9 8	23 1.76	- 8 35.6	2.215	3.222	1.0	21.2	9 8	23 1.53	-24 7.2	1.673	2.647	6.9	20.0
9 18	22 54.41	- 9 19.2	2.253	3.237	4.3	21.5	9 18	22 51.85	-24 31.4	1.706	2.648	9.5	20.2
9 28	22 47.95	- 9 55.0	2.319	3.252	7.6	21.7	9 28	22 43.51	-24 32.1	1.764	2.647	12.6	20.4
10 8	22 42.95	-10 20.3	2.409	3.266	10.5	21.9	10 8	22 37.35	-24 10.2	1.844	2.647	15.5	20.6
382098	2011 <i>GT</i> ₅₈		9 6.9 74°70	3°1/ 4.3 18			45389	2000 <i>AP</i> ₁₂₈		9 6.9 73°34	5°3/ 12.5 18		
7 30	23 29.20	-11 16.9	1.628	2.478	15.9	20.9	7 30	23 27.75	+10 44.5	2.428	3.165	14.5	18.7
8 9	23 25.26	-11 58.6	1.562	2.484	12.3	20.7	8 9	23 23.42	+11 25.1	2.341	3.171	12.3	18.6
8 19	23 18.89	-12 49.1	1.517	2.490	8.3	20.5	8 19	23 17.31	+11 50.0	2.274	3.177	9.8	18.4
8 29	23 10.67	-13 41.9	1.496	2.495	4.3	20.2	8 29	23 9.87	+11 58.2	2.231	3.183	7.3	18.3
9 8	23 1.59	-14 29.6	1.501	2.501	3.6	20.2	9 8	23 1.74	+11 50.1	2.214	3.188	5.5	18.2
9 18	22 52.75	-15 5.7	1.532	2.507	7.1	20.4	9 18	22 53.65	+11 28.0	2.224	3.194	5.6	18.2
9 28	22 45.25	-15 25.6	1.589	2.513	11.1	20.7	9 28	22 46.38	+10 55.9	2.261	3.200	7.5	18.3
10 8	22 39.90	-15 27.3	1.667	2.519	14.7	20.9	10 8	22 40.57	+10 18.8	2.325	3.206	9.9	18.5
68941	2002 <i>PX</i> ₁₂₄		9 6.9 334°92	0°3/ 6.6 18			160029	1998 <i>FM</i> ₁₀₁		9 6.9 99°56	0°6/ 7.4 17		
7 30	23 18.11	- 1 30.9	1.400	2.253	17.8	18.9	7 30	23 33.18	- 3 34.6	1.903	2.714	15.5	19.9
8 9	23 17.17	- 2 23.6	1.314	2.235	14.2	18.6	8 9	23 27.85	- 3 33.4	1.837	2.733	12.2	19.7
8 19	23 13.78	- 3 39.8	1.247	2.219	9.7	18.3	8 19	23 20.35	- 3 43.6	1.792	2.752	8.3	19.5
8 29	23 8.39	- 5 15.2	1.202	2.203	4.7	18.0	8 29	23 11.30	- 4 2.6	1.773	2.770	4.1	19.3
9 8	23 1.86	- 7 1.2	1.181	2.188	0.8	17.7	9 8	23 1.57	- 4 26.2	1.781	2.788	0.7	19.1
9 18	22 55.28	- 8 46.6	1.185	2.175	6.3	18.0	9 18	22 52.13	- 4 49.9	1.817	2.805	4.6	19.4
9 28	22 49.86	-10 20.1	1.214	2.163	11.4	18.3	9 28	22 43.94	- 5 9.5	1.881	2.822	8.5	19.7
10 8	22 46.59	-11 33.1	1.264	2.152	16.0	18.5	10 8	22 37.70	- 5 21.4	1.970	2.839	11.9	20.0
306574	2000 <i>DG</i> ₆₉		9 6.9 95°97	0°7/ 7.5 17			12618	<i>Cellarius</i>		9 6.9 123°92	3°2/ 11.3 18		
7 30	23 29.38	+ 0 3.2	1.365	2.195	19.5	20.5	7 30	23 23.23	+ 8 58.5	2.604	3.356	13.2	18.9
8 9	23 25.73	- 0 38.6	1.305	2.211	15.4	20.2	8 9	23 19.72	+ 8 33.8	2.519	3.367	11.0	18.7
8 19	23 19.35	- 1 42.3	1.263	2.226	10.6	20.0	8 19	23 14.70	+ 7 52.1	2.455	3.377	8.3	18.6
8 29	23 10.92	- 3 3.2	1.244	2.242	5.3	19.8	8 29	23 8.57	+ 6 54.4	2.415	3.387	5.5	18.4
9 8	23 1.56	- 4 32.5	1.249	2.257	0.8	19.5	9 8	23 1.91	+ 5 44.1	2.403	3.396	3.4	18.3
9 18	22 52.53	- 6 0.3	1.281	2.271	5.8	19.9	9 18	22 55.34	+ 4 25.5	2.420	3.406	3.9	18.3
9 28	22 45.07	- 7 17.1	1.339	2.286	10.7	20.2	9 28	22 49.51	+ 3 4.5	2.466	3.415	6.4	18.5
10 8	22 40.04	- 8 16.1	1.418	2.300	15.0	20.5	10 8	22 44.95	+ 1 46.7	2.540	3.424	9.1	18.7
77032	2001 <i>CA</i> ₃₀		9 6.9 185°55	1°2/ 5.9 18			305240	2007 <i>XE</i> ₃₁		9 6.9 316°96	1°9/ 8.4 14 C		
7 30	23 33.35	- 7 30.3	1.893	2.716	15.1	20.1	7 30	23 24.62	- 0 9.6	1.658	2.483	16.8	21.5
8 9	23 28.24	- 7 51.6	1.811	2.716	11.8	19.9	8 9	23 21.96	- 0 5.6	1.561	2.463	13.6	21.2
8 19	23 20.81	- 8 22.8	1.750	2.716	8.0	19.6	8 19	23 16.91	- 0 18.0	1.484	2.443	9.7	20.9
8 29	23 11.59	- 8 59.9	1.715	2.715	3.8	19.4	8 29	23 9.90	- 0 45.5	1.429	2.423	5.4	20.6
9 8	23 1.47	- 9 37.4	1.707	2.713	1.5	19.2	9 8	23 1.73	- 1 24.5	1.399	2.404	1.9	20.4
9 18	22 51.47	-10 9.8	1.728	2.711	5.6	19.5	9 18	22 53.44	- 2 9.3	1.394	2.386	5.1	20.5
9 28	22 42.63	-10 32.4	1.776	2.708	9.7	19.7	9 28	22 46.18	- 2 53.2	1.416	2.368	9.7	20.8
10 8	22 35.79	-10 42.4	1.848	2.704	13.3	20.0	10 8	22 40.92	- 3 29.8	1.460	2.351	14.0	21.0
281764	<i>Schwetzingen</i>		9 6.9 43°27	0°0/ 6.9 18			379591	2011 <i>CZ</i> ₁		9 6.9 200°66	0°1/ 6.7 17		

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
224982	2007 <i>ER</i> ₈₀	9 6.9 279°48	1°0/ 7.7 18				362928	2012 <i>DP</i> ₆₈	9 6.9 26°93	0°8/ 5.9 18			
7 30	23 26.91	- 1 0.1	1.617	2.443	17.1	21.1	7 30	23 22.02	- 4 18.9	2.089	2.919	13.6	20.4
8 9	23 23.81	- 1 15.5	1.524	2.427	13.7	20.8	8 9	23 19.19	- 5 14.5	2.013	2.923	10.6	20.2
8 19	23 18.19	- 1 48.9	1.449	2.411	9.7	20.6	8 19	23 14.56	- 6 23.2	1.959	2.926	7.1	20.0
8 29	23 10.52	- 2 37.8	1.398	2.395	5.0	20.2	8 29	23 8.59	- 7 40.6	1.930	2.930	3.3	19.8
9 8	23 1.66	- 3 37.1	1.372	2.379	1.0	19.9	9 8	23 1.95	- 9 0.2	1.928	2.935	1.2	19.6
9 18	22 52.69	- 4 39.8	1.372	2.362	5.4	20.2	9 18	22 55.41	-10 15.7	1.955	2.939	4.9	19.9
9 28	22 44.82	- 5 37.8	1.398	2.346	10.2	20.4	9 28	22 49.76	-11 20.8	2.009	2.944	8.5	20.1
10 8	22 39.07	- 6 24.4	1.447	2.330	14.6	20.7	10 8	22 45.64	-12 11.4	2.088	2.949	11.7	20.4
355465	2007 <i>VA</i> ₂₇₄	9 6.9 350°76	9°2/11.6 18				282290	2002 <i>PU</i> ₁₂₈	9 6.9 3°76	7°9/31.3 18			
7 30	23 24.71	+ 7 12.9	1.165	1.989	22.5	19.4	7 30	23 24.79	-20 57.6	1.361	2.241	16.7	19.1
8 9	23 22.99	+ 9 7.6	1.088	1.975	19.3	19.1	8 9	23 22.45	-22 16.3	1.307	2.240	13.3	18.9
8 19	23 18.16	+10 44.5	1.027	1.963	15.6	18.9	8 19	23 17.30	-23 36.3	1.272	2.240	10.0	18.7
8 29	23 10.69	+11 57.2	0.984	1.952	11.9	18.6	8 29	23 10.04	-24 46.7	1.260	2.242	8.0	18.6
9 8	23 1.63	+12 42.0	0.962	1.944	9.4	18.5	9 8	23 1.77	-25 37.1	1.271	2.244	8.8	18.7
9 18	22 52.44	+12 58.4	0.962	1.939	9.9	18.5	9 18	22 53.80	-26 0.5	1.305	2.247	11.6	18.8
9 28	22 44.74	+12 51.2	0.982	1.935	12.9	18.7	9 28	22 47.40	-25 54.1	1.360	2.252	15.0	19.1
10 8	22 39.83	+12 29.6	1.022	1.933	16.8	18.9	10 8	22 43.46	-25 19.8	1.434	2.257	18.1	19.3
119839	2002 <i>CX</i> ₁₇	9 6.9 82°28	1°0/ 7.9 18				356207	2009 <i>RT</i> ₂₀	9 6.9 286°26	1°2/ 4.8 16			
7 30	23 27.81	- 1 59.4	2.159	2.966	14.0	20.0	7 30	23 19.58	-10 50.5	4.285	5.107	7.3	21.1
8 9	23 23.57	- 1 58.9	2.080	2.973	11.1	19.8	8 9	23 16.33	-11 11.8	4.189	5.096	5.6	21.0
8 19	23 17.46	- 2 9.7	2.022	2.979	7.7	19.6	8 19	23 12.15	-11 36.3	4.118	5.085	3.8	20.9
8 29	23 9.95	- 2 29.9	1.990	2.985	4.0	19.4	8 29	23 7.31	-12 2.0	4.075	5.074	1.9	20.7
9 8	23 1.76	- 2 56.1	1.984	2.991	1.0	19.2	9 8	23 2.12	-12 26.6	4.061	5.063	1.4	20.7
9 18	22 53.70	- 3 24.1	2.008	2.997	4.1	19.5	9 18	22 56.95	-12 48.1	4.077	5.052	3.1	20.8
9 28	22 46.59	- 3 49.7	2.059	3.003	7.7	19.7	9 28	22 52.18	-13 4.4	4.123	5.041	5.0	20.9
10 8	22 41.09	- 4 9.2	2.135	3.009	10.9	19.9	10 8	22 48.13	-13 14.0	4.194	5.030	6.8	21.0
287349	2002 <i>TP</i> ₃₈₄	9 6.9 44°59	4°7/10.9 17				240173	2002 <i>PH</i> ₁₈₁	9 6.9 166°00	3°0/ 3.8 18			
7 30	23 25.56	+ 7 17.3	1.368	2.176	20.5	20.0	7 30	23 26.41	-10 58.2	1.913	2.758	14.1	20.8
8 9	23 22.88	+ 7 22.2	1.302	2.185	17.0	19.8	8 9	23 22.82	-11 55.4	1.839	2.758	10.9	20.6
8 19	23 17.53	+ 7 0.7	1.252	2.195	12.8	19.6	8 19	23 17.14	-13 1.4	1.787	2.759	7.3	20.4
8 29	23 10.13	+ 6 13.2	1.223	2.204	8.3	19.3	8 29	23 9.86	-14 10.4	1.761	2.760	3.9	20.2
9 8	23 1.73	+ 5 4.2	1.217	2.215	4.9	19.2	9 8	23 1.80	-15 15.0	1.762	2.760	3.5	20.2
9 18	22 53.54	+ 3 41.8	1.236	2.226	6.0	19.3	9 18	22 53.85	-16 8.8	1.790	2.760	6.7	20.4
9 28	22 46.79	+ 2 16.4	1.279	2.237	10.0	19.5	9 28	22 46.97	-16 46.8	1.844	2.761	10.3	20.6
10 8	22 42.38	+ 0 57.8	1.346	2.248	14.2	19.8	10 8	22 41.89	-17 6.6	1.921	2.761	13.5	20.8
288363	2004 <i>CN</i> ₁₁	9 6.9 234°87	1°4/ 8.0 17				379887	2012 <i>HC</i> ₆₇	9 6.9 43°84	5°1/ 3.4 17			
7 30	23 29.95	- 0 33.3	1.769	2.581	16.4	21.6	7 30	23 31.34	-15 20.1	1.322	2.187	17.9	20.4
8 9	23 25.90	- 0 39.3	1.677	2.571	13.2	21.3	8 9	23 27.45	-16 4.0	1.267	2.196	14.0	20.2
8 19	23 19.45	- 1 1.2	1.605	2.562	9.3	21.1	8 19	23 20.61	-16 53.3	1.232	2.205	9.6	20.0
8 29	23 11.07	- 1 37.0	1.557	2.552	5.0	20.8	8 29	23 11.59	-17 39.7	1.219	2.215	5.9	19.8
9 8	23 1.61	- 2 22.5	1.535	2.541	1.4	20.5	9 8	23 1.59	-18 14.1	1.230	2.225	5.7	19.8
9 18	22 52.11	- 3 11.8	1.540	2.530	5.0	20.8	9 18	22 52.03	-18 29.9	1.266	2.235	9.2	20.1
9 28	22 43.70	- 3 58.3	1.572	2.518	9.5	21.0	9 28	22 44.21	-18 23.9	1.326	2.245	13.2	20.3
10 8	22 37.30	- 4 36.3	1.628	2.507	13.5	21.2	10 8	22 39.03	-17 56.6	1.406	2.256	16.9	20.6
446203	2013 <i>GW</i> ₉	9 6.9 131°02	3°3/ 3.4 18				221595	2006 <i>WE</i> ₃₄	9 6.9 69°50	2°5/ 9.1 17			
7 30	23 28.25	-14 54.1	2.315	3.153	12.2	21.3	7 30	23 27.08	+ 3 30.5	1.446	2.262	19.2	20.2
8 9	23 23.81	-15 30.5	2.243	3.157	9.4	21.2	8 9	23 23.84	+ 3 11.2	1.383	2.277	15.5	20.0
8 19	23 17.55	-16 10.4	2.194	3.162	6.5	21.0	8 19	23 18.05	+ 2 28.8	1.337	2.291	11.1	19.8
8 29	23 9.97	-16 48.9	2.172	3.166	3.8	20.8	8 29	23 10.34	+ 1 26.1	1.314	2.305	6.4	19.6
9 8	23 1.77	-17 21.0	2.177	3.170	3.7	20.8	9 8	23 1.75	+ 0 9.4	1.316	2.320	2.6	19.4
9 18	22 53.73	-17 42.6	2.211	3.174	6.2	21.0	9 18	22 53.42	- 1 12.8	1.343	2.334	5.3	19.6
9 28	22 46.64	-17 50.7	2.271	3.178	9.1	21.2	9 28	22 46.51	- 2 31.0	1.396	2.349	9.8	19.9
10 8	22 41.13	-17 44.5	2.356	3.182	11.8	21.4	10 8	22 41.86	- 3 37.4	1.472	2.364	13.9	20.2
137533	1999 <i>VQ</i> ₆₁	9 6.9 20°52	2°5/ 8.7 18				294905	2008 <i>DW</i> ₂₆	9 6.9 320°17	2°6/ 4.7 18			
7 30	23 24.17	+ 1 12.2	1.116	1.967	21.6	19.3	7 30	23 25.76	- 7 45.8	1.425	2.282	17.4	20.4
8 9	23 22.28	+ 1 13.5	1.057	1.973	17.4	19.0	8 9	23 23.08	- 8 45.0	1.352	2.277	13.6	20.1
8 19	23 17.37	+ 0 50.5	1.015	1.980	12.4	18.8	8 19	23 17.74	- 9 59.8	1.299	2.274	9.1	19.9
8 29	23 10.13	+ 0 5.6	0.992	1.988	6.9	18.5	8 29	23 10.30	-11 23.5	1.268	2.270	4.4	19.6
9 8	23 1.75	- 0 54.5	0.991	1.997	2.5	18.3	9 8	23 1.75	-12 46.2	1.263	2.266	3.2	19.5
9 18	22 53.64	- 2 0.6	1.014	2.007	6.1	18.5	9 18	22 53.31	-13 58.3	1.283	2.263	7.5	19.8
9 28	22 47.23	- 3 2.3	1.059	2.018	11.4	18.8	9 28	22 46.23	-14 51.9	1.327	2.260	12.2	20.0
10 8	22 43.50	- 3 51.0	1.125	2.030	16.1	19.2	10 8	22 41.46	-15 22.8	1.393	2.257	16.3	20.3
155727	2000 <i>RN</i> ₄₀	9 6.9 349°52	7°3/13.2 18				307098	2002 <i>BK</i> ₂₄	9 6.9 141°33	1°1/ 6.0 18			
7 30	23 16.00	+11 24.0	1.176	1.993	22.7	18.8	7 30	23 33.91	- 8 31.4	1.907	2.731	14.9	20.1
8 9	23 15.97	+11 49.6	1.099	1.982	19.4	18.6	8 9	23 28.58	- 8 35.7	1.831	2.737	11.7	19.9
8 19	23 13.22	+11 42.6	1.036	1.972	15.5	18.3	8 19	23 20.98	- 8 47.9	1.777	2.743	7.9	19.7
8 29	23 8.23	+10 59.6	0.992	1.963	11.3	18.0	8 29	23 11.69	- 9 4.2	1.748	2.748	3.7	19.5
9 8	23 1.97	+ 9 42.6	0.967	1.957	7.9	17.8	9 8	23 1.60	- 9 20.3	1.747	2.753	1.4	19.3
9 18	22 55.69	+ 7 59.2	0.965	1.952	7.8	17.8	9 18	22 51.71	- 9 31.6	1.775	2.758	5.3	19.6
9 28	22 50.79	+ 6 2.3	0.984	1.949	11.2	18.0	9 28	22 43.04	- 9 34.9	1.830	2.763	9.3	19.8
10 8	22 48.34	+ 4 7.0	1.024	1.947	15.6	18.3	10 8	22 36.37	- 9 27.8	1.909	2.767	12.8	20.1
480556	2015 <i>MZ</i> ₆₂	9 6.9 43°91	0°9/ 7.7 17				476717	2008 <i>TZ</i> ₁₈₅	9 6.9 307°76				

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
168456	1999 <i>FC</i> ₄	9 6.9 298°22 0°9/ 7.7 18					179816	2002 <i>TF</i> ₈₆	9 6.9 72°21 0°6/ 6.5 17				
7 30	23 26.26	- 2 7.8	1.863	2.684	15.3	20.5	7 30	23 32.19	- 6 9.5	1.443	2.283	18.1	19.8
8 9	23 22.98	- 2 13.2	1.763	2.664	12.3	20.3	8 9	23 27.84	- 6 18.2	1.380	2.294	14.2	19.6
8 19	23 17.47	- 2 32.5	1.683	2.644	8.6	20.0	8 19	23 20.77	- 6 39.7	1.337	2.306	9.6	19.4
8 29	23 10.15	- 3 3.7	1.627	2.624	4.5	19.7	8 29	23 11.66	- 7 9.7	1.317	2.318	4.5	19.1
9 8	23 1.77	- 3 42.9	1.597	2.604	0.9	19.4	9 8	23 1.63	- 7 42.0	1.322	2.329	1.0	18.9
9 18	22 53.28	- 4 24.6	1.594	2.584	4.9	19.7	9 18	22 51.93	- 8 10.3	1.353	2.341	6.0	19.3
9 28	22 45.72	- 5 3.0	1.617	2.564	9.2	19.9	9 28	22 43.80	- 8 29.1	1.410	2.353	10.7	19.6
10 8	22 39.99	- 5 32.9	1.664	2.544	13.2	20.1	10 8	22 38.10	- 8 35.1	1.489	2.364	14.7	19.9
342804	2008 <i>WX</i> ₁₄₀	9 6.9 358°19 2°2/ 4.9 18					323637	2004 <i>XE</i> ₄₀	9 6.9 267°09 4°3/ 1.5 18				
7 30	23 12.57	- 3 35.1	1.031	1.919	20.2	19.0	7 30	23 25.50	-17 50.2	2.494	3.338	11.2	20.6
8 9	23 13.44	- 4 57.3	0.969	1.912	15.7	18.7	8 9	23 21.77	-18 49.8	2.405	3.322	8.8	20.4
8 19	23 11.53	- 6 47.2	0.925	1.907	10.5	18.4	8 19	23 16.29	-19 52.5	2.341	3.306	6.3	20.2
8 29	23 7.40	- 8 55.9	0.901	1.905	4.8	18.1	8 29	23 9.46	-20 53.0	2.303	3.290	4.5	20.1
9 8	23 2.12	-11 8.7	0.899	1.904	2.9	18.0	9 8	23 1.90	-21 45.3	2.293	3.273	4.9	20.1
9 18	22 56.97	-13 9.9	0.919	1.906	8.3	18.3	9 18	22 54.35	-22 24.7	2.311	3.257	7.1	20.2
9 28	22 53.31	-14 45.8	0.961	1.909	13.8	18.6	9 28	22 47.56	-22 47.6	2.355	3.240	9.8	20.4
10 8	22 52.11	-15 49.0	1.022	1.915	18.4	18.9	10 8	22 42.21	-22 52.8	2.422	3.223	12.3	20.5
295070	2008 <i>EG</i> ₁₂₅	9 6.9 35°82 1°0/ 6.4 17					439524	2014 <i>BE</i> ₅₁	9 6.9 93°75 2°9/ 4.2 16				
7 30	23 34.60	- 8 48.8	1.073	1.937	21.3	18.8	7 30	23 29.40	-11 18.1	1.841	2.683	14.7	21.3
8 9	23 30.28	- 8 27.3	1.028	1.955	16.7	18.6	8 9	23 25.07	-12 6.4	1.781	2.699	11.3	21.1
8 19	23 22.61	- 8 16.8	1.001	1.975	11.2	18.4	8 19	23 18.58	-13 2.2	1.743	2.714	7.6	20.9
8 29	23 12.52	- 8 13.0	0.994	1.996	5.3	18.1	8 29	23 10.52	-13 59.5	1.731	2.729	4.0	20.7
9 8	23 1.52	- 8 9.9	1.010	2.017	1.4	17.9	9 8	23 1.78	-14 51.4	1.745	2.744	3.4	20.7
9 18	22 51.21	- 8 2.5	1.050	2.040	6.9	18.4	9 18	22 53.32	-15 32.2	1.787	2.759	6.6	21.0
9 28	22 43.08	- 7 46.8	1.114	2.063	12.2	18.7	9 28	22 46.09	-15 57.6	1.854	2.773	10.1	21.2
10 8	22 37.99	- 7 20.8	1.198	2.087	16.6	19.1	10 8	22 40.78	-16 6.0	1.945	2.788	13.3	21.4
293742	2007 <i>RB</i> ₄₄	9 6.9 314°36 2°3/ 8.9 18					82700	2001 <i>PJ</i> ₃₈	9 6.9 51°19 10°4/ 31.6 18				
7 30	23 26.53	+ 1 57.8	1.846	2.651	16.1	21.1	7 30	23 37.10	-27 16.5	1.241	2.108	18.8	18.1
8 9	23 23.03	+ 1 56.0	1.761	2.649	13.0	20.9	8 9	23 31.97	-28 28.3	1.213	2.132	15.3	18.0
8 19	23 17.36	+ 1 37.5	1.697	2.648	9.4	20.7	8 19	23 23.54	-29 30.9	1.203	2.156	12.2	17.9
8 29	23 10.02	+ 1 3.7	1.656	2.647	5.4	20.5	8 29	23 12.87	-30 12.4	1.215	2.180	10.5	17.9
9 8	23 1.80	+ 0 18.5	1.641	2.645	2.3	20.2	9 8	23 1.52	-30 23.9	1.249	2.205	11.0	18.0
9 18	22 53.64	- 0 32.9	1.654	2.644	4.6	20.4	9 18	22 51.09	-30 2.6	1.306	2.230	13.3	18.2
9 28	22 46.52	- 1 24.0	1.692	2.643	8.6	20.6	9 28	22 42.92	-29 10.6	1.385	2.256	16.1	18.4
10 8	22 41.24	- 2 8.9	1.756	2.642	12.3	20.9	10 8	22 37.78	-27 54.0	1.482	2.281	18.8	18.7
223942	2004 <i>XG</i> ₂₆	9 6.9 314°28 3°2/ 3.6 18					509993	2009 <i>UZ</i> ₁₅₄	9 6.9 300°11 4°8/ 3.2 18				
7 30	23 24.83	-13 11.6	2.095	2.942	12.9	19.9	7 30	23 28.32	-14 10.8	1.479	2.341	16.6	21.5
8 9	23 21.52	-13 53.7	2.009	2.929	10.1	19.7	8 9	23 25.25	-15 0.2	1.394	2.322	13.0	21.2
8 19	23 16.24	-14 42.1	1.945	2.916	6.9	19.5	8 19	23 19.37	-15 58.5	1.329	2.303	9.0	20.9
8 29	23 9.46	-15 31.6	1.907	2.904	3.9	19.3	8 29	23 11.19	-16 58.1	1.288	2.284	5.5	20.7
9 8	23 1.87	-16 16.2	1.896	2.892	3.7	19.2	9 8	23 1.69	-17 49.8	1.271	2.265	5.4	20.6
9 18	22 54.32	-16 50.7	1.911	2.880	6.6	19.4	9 18	22 52.14	-18 25.3	1.279	2.247	9.1	20.8
9 28	22 47.67	-17 10.7	1.953	2.868	9.9	19.6	9 28	22 43.91	-18 38.7	1.310	2.229	13.4	21.0
10 8	22 42.66	-17 14.4	2.018	2.857	13.0	19.8	10 8	22 38.10	-18 28.3	1.362	2.211	17.4	21.2
204503	2005 <i>CB</i> ₃₇	9 6.9 331°50 9°9/ 27.6 18					11422	Allienthal	9 6.9 35°20 2°3/ 8.8 18				
7 30	23 21.18	-22 55.6	1.346	2.232	16.4	19.3	7 30	23 25.88	+ 1 41.2	1.459	2.284	18.6	17.7
8 9	23 19.97	-25 4.6	1.280	2.215	13.4	19.0	8 9	23 22.95	+ 1 36.1	1.392	2.292	15.0	17.5
8 19	23 15.91	-27 17.5	1.236	2.199	10.8	18.9	8 19	23 17.50	+ 1 10.7	1.343	2.301	10.7	17.2
8 29	23 9.52	-29 20.5	1.214	2.183	10.0	18.8	8 29	23 10.14	+ 0 27.2	1.317	2.310	6.0	17.0
9 8	23 1.85	-30 59.5	1.215	2.169	11.5	18.8	9 8	23 1.84	- 0 29.1	1.314	2.319	2.3	16.8
9 18	22 54.22	-32 3.9	1.238	2.155	14.4	18.9	9 18	22 53.76	- 1 30.7	1.337	2.329	5.2	17.0
9 28	22 48.03	-32 28.9	1.280	2.143	17.7	19.1	9 28	22 47.02	- 2 29.6	1.385	2.339	9.8	17.3
10 8	22 44.36	-32 15.8	1.340	2.131	20.8	19.3	10 8	22 42.50	- 3 18.7	1.456	2.350	13.9	17.6
99350	2001 <i>XO</i> ₁₀₈	9 6.9 171°01 0°4/ 6.6 17					34622	2000 <i>UK</i> ₅₈	9 6.9 51°80 4°0/ 11.2 18				
7 30	23 32.59	- 5 6.0	1.593	2.422	17.1	19.9	7 30	23 24.77	+ 7 38.4	2.081	2.854	15.5	18.5
8 9	23 28.08	- 5 23.9	1.517	2.425	13.5	19.7	8 9	23 21.39	+ 7 44.9	1.998	2.859	12.9	18.3
8 19	23 20.94	- 5 55.4	1.461	2.427	9.2	19.5	8 19	23 16.11	+ 7 33.0	1.935	2.863	9.8	18.2
8 29	23 11.78	- 6 36.6	1.429	2.429	4.4	19.2	8 29	23 9.39	+ 7 3.2	1.895	2.868	6.6	18.0
9 8	23 1.59	- 7 21.4	1.423	2.430	0.9	18.9	9 8	23 1.94	+ 6 18.0	1.880	2.873	4.2	17.8
9 18	22 51.55	- 8 3.0	1.444	2.431	5.8	19.3	9 18	22 54.57	+ 5 21.7	1.893	2.878	4.8	17.9
9 28	22 42.88	- 8 35.5	1.491	2.431	10.4	19.6	9 28	22 48.12	+ 4 20.5	1.933	2.883	7.7	18.1
10 8	22 36.50	- 8 54.7	1.561	2.431	14.5	19.8	10 8	22 43.27	+ 3 20.8	1.998	2.888	10.8	18.3
162374	2000 <i>AC</i> ₁₇₅	9 6.9 213°56 0°8/ 7.8 18					238537	2004 <i>VY</i> ₈	9 6.9 303°61 1°3/ 7.8 18				
7 30	23 26.28	- 0 16.4	2.478	3.274	12.7	20.9	7 30	23 31.16	- 3 25.8	1.609	2.435	17.1	20.4
8 9	23 22.28	- 0 47.9	2.380	3.266	10.1	20.7	8 9	23 27.19	- 3 1.9	1.516	2.420	13.8	20.1
8 19	23 16.59	- 1 32.7	2.304	3.257	7.1	20.5	8 19	23 20.55	- 2 49.7	1.443	2.404	9.7	19.8
8 29	23 9.58	- 2 28.4	2.254	3.248	3.7	20.3	8 29	23 11.73	- 2 47.9	1.392	2.389	5.1	19.5
9 8	23 1.87	- 3 30.9	2.232	3.239	0.8	20.0	9 8	23 1.64	- 2 53.3	1.368	2.374	1.3	19.2
9 18	22 54.14	- 4 35.1	2.240	3.229	3.8	20.3	9 18	22 51.47	- 3 1.9	1.369	2.360	5.4	19.5
9 28	22 47.14	- 5 35.9	2.277	3.218	7.3	20.5	9 28	22 42.50	- 3 8.7	1.397	2.345	10.2	19.7
10 8	22 41.52	- 6 28.6	2.340	3.206	10.4	20.6	10 8	22 35.76	- 3 9.4	1.447	2.331	14.5	20.0
80801	Yiwu	9 6.9 43°04 0°3/ 7.1 18					145254	2005 <i>JP</i> ₁₁₉	9 6.9 230°97 1°0/ 7.9 18				
7 30	23 27.46												

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
148428	2000 <i>WV</i> ₁₆₀		9 6.9 140°02	2°5/ 3.4	18		298696	2004 <i>EM</i> ₁₄		9 6.9 110°53	3°9/ 3.1	18	
7 30	23 25.59	-12 23.1	2.856	3.684	10.4	20.3	7 30	23 29.58	-15 43.7	2.112	2.954	13.1	20.6
8 9	23 21.39	-13 19.6	2.786	3.696	8.0	20.1	8 9	23 25.03	-16 26.5	2.047	2.963	10.1	20.5
8 19	23 15.77	-14 20.9	2.741	3.708	5.4	20.0	8 19	23 18.49	-17 12.6	2.004	2.971	7.0	20.3
8 29	23 9.13	-15 22.5	2.723	3.719	3.0	19.8	8 29	23 10.51	-17 56.3	1.987	2.980	4.4	20.1
9 8	23 2.00	-16 19.9	2.735	3.730	2.9	19.8	9 8	23 1.88	-18 31.8	1.998	2.989	4.3	20.2
9 18	22 54.99	-17 8.7	2.777	3.740	5.1	20.0	9 18	22 53.48	-18 54.7	2.036	2.997	6.9	20.3
9 28	22 48.71	-17 46.0	2.847	3.750	7.6	20.2	9 28	22 46.16	-19 2.0	2.101	3.005	9.9	20.5
10 8	22 43.65	-18 9.9	2.941	3.759	9.9	20.4	10 8	22 40.58	-18 53.2	2.189	3.013	12.6	20.7
107439	2001 <i>DL</i> ₁₆		9 6.9 138°84	1°6/ 5.4	18		160004	2007 <i>GP</i> ₂₄		9 6.9 29°27	1°3/ 5.8	18	
7 30	23 32.21	- 9 39.4	2.277	3.097	13.0	20.5	7 30	23 25.07	- 5 26.4	1.485	2.334	17.2	20.1
8 9	23 26.85	- 9 59.2	2.204	3.109	10.0	20.3	8 9	23 22.32	- 6 12.3	1.418	2.338	13.4	19.9
8 19	23 19.61	-10 25.5	2.154	3.120	6.7	20.1	8 19	23 17.10	- 7 14.1	1.372	2.344	9.0	19.6
8 29	23 11.00	-10 54.4	2.131	3.130	3.2	19.9	8 29	23 9.98	- 8 25.9	1.348	2.349	4.2	19.4
9 8	23 1.78	-11 21.3	2.137	3.141	1.9	19.9	9 8	23 1.95	- 9 39.4	1.350	2.356	1.8	19.2
9 18	22 52.75	-11 42.4	2.171	3.150	5.0	20.1	9 18	22 54.11	-10 46.2	1.377	2.362	6.3	19.5
9 28	22 44.75	-11 54.5	2.234	3.159	8.3	20.3	9 28	22 47.59	-11 38.9	1.429	2.369	10.8	19.8
10 8	22 38.41	-11 55.6	2.322	3.168	11.3	20.5	10 8	22 43.23	-12 13.1	1.504	2.376	14.8	20.1
507231	2011 <i>AP</i> ₃₆		9 6.9 212°88	2°6/ 4.3	17		487088	2014 <i>OA</i> ₁₂₃		9 6.9 235°82	2°2/ 9.3	17	
7 30	23 28.77	- 9 6.3	1.945	2.779	14.3	22.7	7 30	23 27.65	+ 2 6.7	2.585	3.365	12.7	21.8
8 9	23 24.76	-10 9.1	1.859	2.773	11.1	22.5	8 9	23 23.31	+ 2 17.4	2.485	3.356	10.3	21.7
8 19	23 18.56	-11 23.4	1.796	2.765	7.5	22.2	8 19	23 17.28	+ 2 16.6	2.406	3.347	7.5	21.5
8 29	23 10.66	-12 43.4	1.758	2.757	3.8	22.0	8 29	23 9.97	+ 2 5.1	2.352	3.338	4.5	21.3
9 8	23 1.82	-14 1.5	1.748	2.749	3.1	21.9	9 8	23 1.95	+ 1 44.8	2.327	3.328	2.3	21.1
9 18	22 53.00	-15 10.3	1.767	2.740	6.5	22.1	9 18	22 53.91	+ 1 18.8	2.331	3.319	3.8	21.2
9 28	22 45.20	-16 3.7	1.812	2.730	10.3	22.3	9 28	22 46.58	+ 0 50.8	2.363	3.309	6.8	21.4
10 8	22 39.23	-16 38.4	1.880	2.719	13.8	22.5	10 8	22 40.59	+ 0 24.8	2.422	3.298	9.7	21.5
513127	1998 <i>VR</i> ₂		9 6.9 338°75	5°6/ 3.4	18		142450	2002 <i>TV</i>		9 6.9 271°80	1°3/ 5.8	18	
7 30	23 22.57	-14 40.3	1.038	1.931	19.6	19.9	7 30	23 26.59	- 5 13.3	1.579	2.421	16.7	20.2
8 9	23 21.69	-15 16.2	0.966	1.911	15.5	19.6	8 9	23 23.61	- 5 59.4	1.492	2.408	13.2	19.9
8 19	23 17.47	-16 1.5	0.911	1.893	10.8	19.3	8 19	23 18.11	- 7 2.3	1.426	2.396	8.9	19.7
8 29	23 10.45	-16 47.1	0.876	1.876	6.5	19.0	8 29	23 10.57	- 8 17.0	1.382	2.384	4.2	19.4
9 8	23 1.84	-17 21.9	0.862	1.860	6.3	18.9	9 8	23 1.87	- 9 35.8	1.365	2.371	1.7	19.2
9 18	22 53.25	-17 36.1	0.870	1.847	10.6	19.1	9 18	22 53.14	-10 49.8	1.374	2.358	6.4	19.4
9 28	22 46.39	-17 23.8	0.897	1.835	15.8	19.3	9 28	22 45.58	-11 50.7	1.408	2.345	11.2	19.7
10 8	22 42.55	-16 44.2	0.942	1.825	20.5	19.6	10 8	22 40.16	-12 33.1	1.464	2.333	15.4	19.9
475379	2006 <i>FX</i> ₁₃		9 6.9 59°58	3°1/10.3	16		196316	2003 <i>FZ</i> ₃₄		9 6.9 192°45	0°2/ 6.5	17	
7 30	23 23.62	+ 7 14.2	1.677	2.471	17.9	21.1	7 30	23 18.16	- 5 40.2	4.551	5.357	7.2	20.6
8 9	23 20.85	+ 6 37.1	1.608	2.485	14.6	20.9	8 9	23 15.19	- 6 2.2	4.461	5.357	5.6	20.4
8 19	23 15.91	+ 5 35.3	1.557	2.499	10.8	20.7	8 19	23 11.40	- 6 29.0	4.395	5.357	3.7	20.3
8 29	23 9.34	+ 4 11.4	1.529	2.513	6.6	20.5	8 29	23 7.01	- 6 58.9	4.358	5.357	1.8	20.2
9 8	23 2.01	+ 2 31.4	1.527	2.528	3.3	20.4	9 8	23 2.33	- 7 30.0	4.349	5.356	0.4	20.0
9 18	22 54.87	+ 0 44.1	1.551	2.542	4.8	20.5	9 18	22 57.68	- 8 0.0	4.371	5.356	2.4	20.2
9 28	22 48.89	- 1 0.9	1.603	2.557	8.7	20.8	9 28	22 53.39	- 8 27.1	4.423	5.356	4.3	20.4
10 8	22 44.80	- 2 34.9	1.679	2.572	12.4	21.0	10 8	22 49.77	- 8 49.3	4.501	5.355	6.1	20.5
398464	2011 <i>UX</i> ₁₀₄		9 6.9 284°47	3°1/10.0	18		445250	2009 <i>QR</i> ₄₆		9 6.9 350°14	3°5/ 4.4	18	
7 30	23 25.21	+ 4 51.1	2.000	2.789	15.6	20.9	7 30	23 28.18	-14 36.7	1.639	2.496	15.5	19.9
8 9	23 21.91	+ 4 51.5	1.908	2.782	12.8	20.7	8 9	23 24.65	-14 46.9	1.563	2.487	12.1	19.7
8 19	23 16.59	+ 4 34.5	1.836	2.776	9.5	20.5	8 19	23 18.64	-15 1.1	1.507	2.480	8.3	19.4
8 29	23 9.70	+ 4 0.5	1.787	2.770	6.0	20.2	8 29	23 10.74	-15 13.9	1.476	2.474	4.6	19.2
9 8	23 1.96	+ 3 12.6	1.764	2.764	3.3	20.1	9 8	23 1.88	-15 19.7	1.470	2.469	3.9	19.2
9 18	22 54.21	+ 2 15.7	1.769	2.758	4.6	20.1	9 18	22 53.17	-15 13.7	1.489	2.464	7.3	19.4
9 28	22 47.37	+ 1 15.9	1.801	2.752	8.1	20.3	9 28	22 45.76	-14 53.1	1.534	2.461	11.2	19.6
10 8	22 42.20	+ 0 19.8	1.857	2.746	11.6	20.5	10 8	22 40.49	-14 17.4	1.600	2.459	14.8	19.8
314570	2005 <i>YN</i> ₁₈₇		9 6.9 100°38	3°3/10.6	18		444988	2008 <i>FM</i> ₈₂		9 6.9 84°33	0°4/ 7.4	18	
7 30	23 25.72	+ 5 47.3	2.386	3.156	13.8	21.2	7 30	23 25.13	- 1 35.1	2.217	3.027	13.6	21.7
8 9	23 21.86	+ 5 56.8	2.300	3.161	11.4	21.0	8 9	23 21.42	- 2 9.3	2.148	3.043	10.7	21.6
8 19	23 16.30	+ 5 51.5	2.235	3.166	8.6	20.8	8 19	23 15.99	- 2 56.3	2.101	3.060	7.3	21.4
8 29	23 9.47	+ 5 31.9	2.194	3.170	5.6	20.7	8 29	23 9.31	- 3 52.7	2.079	3.076	3.6	21.2
9 8	23 2.00	+ 5 0.3	2.180	3.175	3.4	20.5	9 8	23 2.07	- 4 53.7	2.085	3.092	0.5	20.9
9 18	22 54.59	+ 4 20.2	2.194	3.180	4.2	20.6	9 18	22 54.99	- 5 54.0	2.120	3.108	4.0	21.3
9 28	22 47.99	+ 3 36.2	2.236	3.184	7.0	20.8	9 28	22 48.83	- 6 48.2	2.183	3.124	7.5	21.5
10 8	22 42.81	+ 2 53.2	2.304	3.189	9.8	21.0	10 8	22 44.17	- 7 32.4	2.271	3.140	10.6	21.7
167728	2004 <i>VD</i> ₈₆		9 6.9 89°15	1°0/ 6.1	17		326325	1999 <i>XL</i> ₂₁₇		9 6.9 226°83	2°3/ 3.7	18	
7 30	23 29.97	- 5 17.8	1.366	2.211	18.6	20.9	7 30	23 24.96	-12 7.5	2.916	3.745	10.2	21.9
8 9	23 26.36	- 5 50.7	1.301	2.219	14.6	20.6	8 9	23 21.04	-12 55.1	2.824	3.734	7.9	21.8
8 19	23 19.94	- 6 39.8	1.255	2.226	9.8	20.4	8 19	23 15.65	-13 48.1	2.755	3.723	5.3	21.6
8 29	23 11.37	- 7 39.6	1.232	2.233	4.6	20.1	8 29	23 9.16	-14 42.6	2.715	3.711	2.9	21.4
9 8	23 1.77	- 8 41.9	1.234	2.241	1.5	19.9	9 8	23 2.08	-15 34.1	2.703	3.699	2.7	21.4
9 18	22 52.43	- 9 38.2	1.261	2.248	6.5	20.3	9 18	22 55.01	-16 18.5	2.721	3.687	5.0	21.5
9 28	22 44.64	-10 21.3	1.313	2.255	11.4	20.6	9 28	22 48.57	-16 52.5	2.766	3.674	7.6	21.7
10 8	22 39.33	-10 46.6	1.387	2.262	15.6	20.8	10 8	22 43.29	-17 13.8	2.838	3.661	10.1	21.8
86204	1999 <i>TQ</i> ₂		9 6.9 325°13	5°2/31.6	18		291220	2006 <i>BD</i>		9 6.9 268°55	0°6/ 6.2	1	

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
263417	2008 <i>DN</i> ₄₅		9 6.9 183°40	0°9/ 6.0 18			25585	1999 <i>XK</i> ₂₂₄		9 6.9 162°67	0°1/ 6.8 18		
7 30	23 29.75	- 5 12.4	1.879	2.702	15.1	21.6	7 30	23 24.97	- 4 4.8	2.847	3.653	11.0	20.2
8 9	23 25.52	- 5 54.1	1.797	2.703	11.9	21.4	8 9	23 20.98	- 4 30.2	2.762	3.657	8.6	20.0
8 19	23 19.08	- 6 49.2	1.738	2.703	8.0	21.1	8 19	23 15.57	- 5 4.4	2.701	3.661	5.8	19.8
8 29	23 10.92	- 7 53.1	1.703	2.703	3.8	20.9	8 29	23 9.12	- 5 44.7	2.666	3.664	2.8	19.6
9 8	23 1.88	- 8 59.4	1.696	2.702	1.3	20.7	9 8	23 2.15	- 6 27.6	2.660	3.667	0.4	19.4
9 18	22 52.93	-10 1.3	1.716	2.700	5.4	21.0	9 18	22 55.25	- 7 9.5	2.684	3.670	3.5	19.7
9 28	22 45.07	-10 52.5	1.764	2.698	9.6	21.2	9 28	22 49.03	- 7 46.6	2.736	3.673	6.5	19.9
10 8	22 39.10	-11 29.0	1.836	2.695	13.2	21.4	10 8	22 43.99	- 8 16.1	2.816	3.675	9.1	20.1
378664	2008 <i>GL</i> ₁₀₇		9 6.9 33°32	4°7/ 3.0 17			388203	2006 <i>DJ</i> ₂₁₆		9 6.9 238°90	2°5/ 9.7 18		
7 30	23 26.44	-12 22.5	1.339	2.207	17.6	20.8	7 30	23 25.13	+ 5 12.2	2.018	2.805	15.5	22.2
8 9	23 23.70	-13 36.9	1.280	2.212	13.6	20.5	8 9	23 21.89	+ 4 42.4	1.920	2.795	12.7	22.0
8 19	23 18.19	-15 2.2	1.242	2.218	9.2	20.3	8 19	23 16.64	+ 3 52.4	1.842	2.785	9.3	21.8
8 29	23 10.56	-16 28.9	1.226	2.224	5.4	20.1	8 29	23 9.80	+ 2 43.5	1.789	2.775	5.6	21.5
9 8	23 1.93	-17 46.0	1.235	2.230	5.4	20.1	9 8	23 2.06	+ 1 20.1	1.761	2.764	2.6	21.3
9 18	22 53.57	-18 44.3	1.269	2.237	9.1	20.4	9 18	22 54.28	- 0 11.3	1.762	2.753	4.4	21.4
9 28	22 46.75	-19 18.0	1.325	2.244	13.3	20.6	9 28	22 47.37	- 1 42.7	1.791	2.741	8.2	21.6
10 8	22 42.37	-19 25.7	1.402	2.252	17.0	20.9	10 8	22 42.12	- 3 6.6	1.846	2.729	11.9	21.8
394996	2009 <i>BT</i> ₆₆		9 6.9 307°36	1°1/ 7.9 18			220822	2004 <i>TU</i> ₃₁₀		9 6.9 341°94	15°0/ 23.8 18		
7 30	23 25.78	- 0 43.4	1.831	2.649	15.7	21.4	7 30	23 44.88	-48 22.5	1.832	2.622	16.7	19.3
8 9	23 22.52	- 0 57.9	1.746	2.644	12.5	21.2	8 9	23 38.26	-49 28.3	1.787	2.611	15.7	19.2
8 19	23 17.10	- 1 28.1	1.681	2.640	8.8	20.9	8 19	23 28.03	-50 12.6	1.761	2.602	15.1	19.1
8 29	23 10.00	- 2 11.6	1.639	2.635	4.6	20.7	8 29	23 15.21	-50 24.2	1.753	2.593	15.1	19.1
9 8	23 2.00	- 3 3.6	1.624	2.630	1.1	20.4	9 8	23 1.47	-49 56.0	1.765	2.584	15.8	19.2
9 18	22 54.04	- 3 58.2	1.635	2.626	4.7	20.7	9 18	22 48.61	-48 46.4	1.797	2.577	16.9	19.2
9 28	22 47.10	- 4 48.9	1.674	2.622	8.9	20.9	9 28	22 38.18	-46 59.1	1.847	2.570	18.3	19.3
10 8	22 41.98	- 5 30.3	1.736	2.618	12.7	21.1	10 8	22 31.09	-44 41.9	1.914	2.564	19.7	19.4
514847	2008 <i>EM</i> ₁₂		9 6.9 183°37	1°5/ 5.2 18			309109	2006 <i>WM</i> ₉₃		9 6.9 359°00	7°4/ 30.5 18		
7 30	23 25.37	- 7 34.2	2.318	3.145	12.5	22.2	7 30	23 27.80	-23 50.3	1.861	2.719	13.8	20.6
8 9	23 21.67	- 8 18.9	2.236	3.145	9.7	22.0	8 9	23 24.15	-25 5.5	1.800	2.718	11.2	20.4
8 19	23 16.23	- 9 13.0	2.177	3.145	6.5	21.8	8 19	23 18.19	-26 19.2	1.762	2.718	8.7	20.3
8 29	23 9.48	-10 12.2	2.145	3.145	3.1	21.6	8 29	23 10.51	-27 22.8	1.748	2.717	7.4	20.2
9 8	23 2.07	-11 11.3	2.140	3.144	1.8	21.5	9 8	23 2.01	-28 8.4	1.759	2.717	8.1	20.3
9 18	22 54.73	-12 4.9	2.164	3.144	4.9	21.7	9 18	22 53.71	-28 30.9	1.795	2.718	10.3	20.4
9 28	22 48.23	-12 48.5	2.216	3.143	8.3	21.9	9 28	22 46.65	-28 28.0	1.855	2.718	13.0	20.6
10 8	22 43.19	-13 19.0	2.293	3.142	11.3	22.1	10 8	22 41.60	-28 1.1	1.935	2.719	15.5	20.8
60816	2000 <i>HO</i> ₃₄		9 6.9 167°96	0°5/ 6.5 17 R			281777	2009 <i>ST</i> ₁₅₄		9 6.9 293°38	1°2/ 6.0 18		
7 30	23 32.31	- 4 41.2	1.535	2.366	17.6	20.7	7 30	23 28.35	- 6 44.8	1.509	2.354	17.2	21.6
8 9	23 27.99	- 5 6.0	1.460	2.369	13.9	20.5	8 9	23 25.23	- 7 5.8	1.417	2.335	13.6	21.3
8 19	23 21.00	- 5 46.0	1.406	2.372	9.4	20.2	8 19	23 19.39	- 7 40.8	1.346	2.317	9.3	21.0
8 29	23 11.92	- 6 36.7	1.374	2.374	4.5	20.0	8 29	23 11.30	- 8 25.5	1.297	2.298	4.4	20.7
9 8	23 1.78	- 7 31.3	1.369	2.376	0.9	19.7	9 8	23 1.89	- 9 13.2	1.273	2.279	1.6	20.4
9 18	22 51.79	- 8 22.4	1.390	2.377	6.0	20.1	9 18	22 52.36	- 9 56.5	1.275	2.261	6.5	20.7
9 28	22 43.21	- 9 3.1	1.437	2.378	10.7	20.3	9 28	22 44.05	-10 28.4	1.301	2.243	11.5	20.9
10 8	22 36.97	- 9 29.1	1.507	2.378	14.9	20.6	10 8	22 38.04	-10 44.2	1.350	2.225	16.0	21.2
185003	2006 <i>PC</i> ₉		9 6.9 14°47	2°9/ 4.7 17			304240	2006 <i>RK</i> ₂₀		9 6.9 354°77	5°0/ 10.7 18		
7 30	23 18.67	- 6 13.1	0.933	1.824	21.4	19.3	7 30	23 25.61	+ 5 16.1	1.520	2.328	18.8	19.7
8 9	23 18.46	- 7 22.4	0.884	1.829	16.6	19.0	8 9	23 22.88	+ 5 59.7	1.440	2.323	15.7	19.5
8 19	23 15.05	- 8 54.0	0.853	1.836	11.0	18.8	8 19	23 17.63	+ 6 24.1	1.378	2.319	11.9	19.2
8 29	23 9.17	-10 37.9	0.841	1.844	5.2	18.5	8 29	23 10.38	+ 6 28.3	1.337	2.317	8.0	19.0
9 8	23 2.11	-12 19.5	0.850	1.854	3.6	18.4	9 8	23 2.03	+ 6 13.5	1.320	2.315	5.2	18.9
9 18	22 55.41	-13 45.0	0.881	1.866	8.9	18.8	9 18	22 53.70	+ 5 43.7	1.327	2.314	6.2	18.9
9 28	22 50.53	-14 44.2	0.932	1.879	14.2	19.1	9 28	22 46.60	+ 5 5.6	1.359	2.314	9.8	19.1
10 8	22 48.43	-15 12.9	1.002	1.893	18.8	19.5	10 8	22 41.66	+ 4 26.6	1.413	2.315	13.7	19.4
161523	2004 <i>SQ</i> ₆₀		9 6.9 6°71	0°7/ 7.7 18			222426	2001 <i>OX</i> ₁₄		9 6.9 132°36	7°4/ 9.8 18		
7 30	23 20.94	+ 0 43.5	1.936	2.754	15.0	19.7	7 30	23 45.65	+ 3 30.2	1.174	1.976	23.6	19.3
8 9	23 18.58	- 0 7.5	1.855	2.754	11.9	19.5	8 9	23 39.55	+ 5 22.1	1.102	1.980	19.8	19.1
8 19	23 14.31	- 1 16.7	1.795	2.755	8.3	19.2	8 19	23 29.56	+ 6 59.2	1.046	1.984	15.2	18.8
8 29	23 8.62	- 2 40.4	1.760	2.756	4.2	19.0	8 29	23 16.34	+ 8 15.8	1.012	1.988	10.5	18.6
9 8	23 2.18	- 4 12.3	1.751	2.758	0.7	18.7	9 8	23 1.32	+ 9 8.2	1.001	1.991	7.5	18.4
9 18	22 55.82	- 5 44.9	1.770	2.761	4.4	19.0	9 18	22 46.41	+ 9 36.1	1.015	1.994	9.0	18.5
9 28	22 50.38	- 7 10.5	1.817	2.763	8.4	19.3	9 28	22 33.59	+ 9 44.5	1.053	1.998	13.3	18.8
10 8	22 46.54	- 8 22.9	1.888	2.766	12.0	19.5	10 8	22 24.28	+ 9 41.6	1.113	2.000	17.7	19.1
389309	2009 <i>SK</i> ₂₅		9 6.9 258°36	1°0/ 8.9 17			374863	2006 <i>VQ</i> ₄₂		9 6.9 311°73	6°8/ 1.7 18		
7 30	23 17.99	+ 1 5.2	4.478	5.256	7.7	21.4	7 30	23 26.28	-16 36.1	1.274	2.152	17.7	20.3
8 9	23 15.10	+ 0 49.9	4.379	5.253	6.2	21.3	8 9	23 24.25	-17 46.4	1.191	2.127	14.1	20.0
8 19	23 11.37	+ 0 27.5	4.304	5.249	4.4	21.2	8 19	23 19.10	-19 6.4	1.127	2.102	10.1	19.7
8 29	23 7.03	- 0 1.0	4.256	5.245	2.5	21.0	8 29	23 11.30	-20 26.1	1.085	2.078	7.1	19.5
9 8	23 2.38	- 0 33.6	4.237	5.241	1.0	20.9	9 8	23 1.91	-21 33.3	1.066	2.054	7.7	19.5
9 18	22 57.75	- 1 8.4	4.248	5.237	2.1	21.0	9 18	22 52.37	-22 17.0	1.070	2.031	11.5	19.6
9 28	22 53.47	- 1 43.0	4.289	5.234	4.0	21.1	9 28	22 44.30	-22 30.3	1.096	2.008	16.0	19.8
10 8	22 49.86	- 2 15.3	4.357	5.230	5.8	21.3	10 8	22 38.96	-22 12.0	1.139	1.987	20.3	20.0
141831	2002 <i>OV</i> ₄		9 6.9 42°35	3°8/ 10.2 17			301417	2009 <i>DS</i> ₄₉		9 6			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
66187	1998 XS ₇₃		9 6.9 240°53	1.5°/ 9.2	17	R	165607	2001 FS ₆₆		9 6.9 170°03	5.4°/ 2.3	18	R
7 30	23 22.23	+ 1 45.0	3.626	4.400	9.4	18.7	7 30	23 32.03	-19 18.3	1.883	2.731	14.2	19.8
8 9	23 18.62	+ 1 40.4	3.521	4.391	7.6	18.6	8 9	23 27.33	-20 3.2	1.814	2.731	11.2	19.6
8 19	23 13.89	+ 1 27.0	3.439	4.381	5.5	18.4	8 19	23 20.31	-20 49.3	1.768	2.732	8.0	19.4
8 29	23 8.31	+ 1 6.0	3.384	4.371	3.2	18.3	8 29	23 11.54	-21 29.6	1.746	2.732	5.7	19.2
9 8	23 2.30	+ 0 39.2	3.358	4.361	1.5	18.1	9 8	23 1.96	-21 57.3	1.751	2.732	5.9	19.3
9 18	22 56.27	+ 0 8.8	3.362	4.350	2.7	18.2	9 18	22 52.59	-22 7.5	1.782	2.733	8.5	19.4
9 28	22 50.71	- 0 22.2	3.395	4.340	5.0	18.4	9 28	22 44.48	-21 58.1	1.839	2.733	11.6	19.6
10 8	22 46.02	- 0 51.2	3.455	4.329	7.2	18.5	10 8	22 38.42	-21 29.3	1.917	2.733	14.5	19.8
35653	1998 MF ₃₀		9 6.9 35°71	5.2°/ 1.3	18		395430	2011 SU ₂₀₉		9 6.9 287°01	1.4°/ 5.8	18	
7 30	23 25.39	-18 4.7	2.026	2.881	13.0	17.7	7 30	23 28.97	- 8 16.6	1.917	2.750	14.5	21.2
8 9	23 21.99	-19 15.7	1.963	2.885	10.2	17.5	8 9	23 24.89	- 8 35.1	1.837	2.748	11.3	21.0
8 19	23 16.59	-20 29.6	1.923	2.889	7.3	17.4	8 19	23 18.65	- 9 2.7	1.778	2.746	7.6	20.8
8 29	23 9.71	-21 39.1	1.908	2.894	5.3	17.2	8 29	23 10.76	- 9 35.3	1.744	2.744	3.6	20.5
9 8	23 2.13	-22 37.3	1.920	2.899	5.8	17.3	9 8	23 2.04	-10 7.9	1.737	2.743	1.7	20.4
9 18	22 54.72	-23 18.5	1.958	2.903	8.2	17.4	9 18	22 53.43	-10 35.2	1.758	2.741	5.4	20.7
9 28	22 48.35	-23 39.5	2.022	2.908	11.0	17.6	9 28	22 45.89	-10 52.9	1.805	2.739	9.4	20.9
10 8	22 43.70	-23 39.8	2.107	2.914	13.7	17.8	10 8	22 40.18	-10 58.3	1.876	2.737	12.8	21.1
180146	2003 GL ₈		9 6.9 231°28	0.4°/ 7.4	18		350386	2012 VF ₁₀		9 6.9 191°59	5.8°/ 13.5	18	
7 30	23 25.53	- 2 26.0	2.267	3.079	13.3	20.8	7 30	23 26.72	+13 47.4	2.263	2.990	15.7	21.1
8 9	23 21.88	- 2 48.9	2.178	3.074	10.5	20.6	8 9	23 22.92	+14 1.5	2.169	2.989	13.5	20.9
8 19	23 16.45	- 3 24.0	2.110	3.070	7.2	20.4	8 19	23 17.23	+13 55.4	2.092	2.987	10.9	20.8
8 29	23 9.65	- 4 8.5	2.068	3.065	3.6	20.2	8 29	23 10.07	+13 27.9	2.039	2.985	8.2	20.6
9 8	23 2.14	- 4 58.3	2.053	3.060	0.4	19.9	9 8	23 2.12	+12 40.1	2.010	2.983	6.1	20.5
9 18	22 54.65	- 5 48.4	2.067	3.055	4.1	20.2	9 18	22 54.17	+11 35.7	2.009	2.980	6.0	20.5
9 28	22 47.99	- 6 33.8	2.109	3.050	7.7	20.4	9 28	22 47.05	+10 20.4	2.035	2.977	7.9	20.6
10 8	22 42.80	- 7 10.4	2.175	3.045	11.0	20.6	10 8	22 41.48	+ 9 1.5	2.087	2.974	10.6	20.7
226472	2003 SD ₁₇₄		9 6.9 24°79	1.9°/ 9.1	18		168638	Waltersiegmond		9 6.9 53°28	0.1°/ 6.8	18	
7 30	23 23.00	+ 2 34.7	2.202	3.000	14.0	20.3	7 30	23 27.60	- 4 25.5	1.790	2.619	15.6	20.5
8 9	23 19.93	+ 2 16.8	2.119	3.002	11.3	20.1	8 9	23 23.86	- 4 42.1	1.720	2.627	12.2	20.3
8 19	23 15.11	+ 1 43.5	2.057	3.005	8.1	19.9	8 19	23 17.94	- 5 11.4	1.670	2.635	8.3	20.1
8 29	23 9.00	+ 0 56.7	2.019	3.008	4.7	19.7	8 29	23 10.40	- 5 49.6	1.644	2.644	4.0	19.9
9 8	23 2.22	+ 0 0.2	2.008	3.012	1.9	19.5	9 8	23 2.09	- 6 31.4	1.645	2.652	0.5	19.6
9 18	22 55.51	- 1 0.9	2.025	3.015	3.9	19.7	9 18	22 53.96	- 7 11.3	1.673	2.661	5.0	20.0
9 28	22 49.64	- 2 0.8	2.069	3.019	7.3	19.9	9 28	22 46.99	- 7 43.9	1.727	2.670	9.1	20.2
10 8	22 45.23	- 2 54.3	2.139	3.023	10.5	20.1	10 8	22 41.90	- 8 5.4	1.805	2.679	12.7	20.5
93508	2000 TM ₅₆		9 6.9 220°38	2°1/ 9.3	18		182349	2001 QN ₃₉		9 6.9 43°12	1.7°/ 5.7	17	
7 30	23 25.87	+ 4 28.1	2.190	2.973	14.6	20.8	7 30	23 27.51	- 6 10.9	1.206	2.066	19.6	19.9
8 9	23 22.30	+ 3 53.0	2.091	2.965	11.9	20.6	8 9	23 24.58	- 6 52.7	1.158	2.085	15.2	19.7
8 19	23 16.83	+ 2 59.3	2.013	2.956	8.6	20.4	8 19	23 18.76	- 7 50.6	1.129	2.103	10.1	19.4
8 29	23 9.88	+ 1 48.8	1.959	2.947	5.0	20.1	8 29	23 10.85	- 8 57.5	1.121	2.123	4.7	19.2
9 8	23 2.11	+ 0 25.7	1.933	2.937	2.1	19.9	9 8	23 2.05	-10 3.8	1.137	2.143	2.1	19.1
9 18	22 54.30	- 1 3.7	1.936	2.926	4.1	20.0	9 18	22 53.71	-11 0.5	1.178	2.164	7.0	19.4
9 28	22 47.31	- 2 32.3	1.967	2.915	7.8	20.2	9 28	22 47.09	-11 40.4	1.242	2.185	11.8	19.8
10 8	22 41.86	- 3 53.1	2.025	2.904	11.3	20.4	10 8	22 43.03	-12 0.2	1.327	2.207	15.9	20.1
271680	2004 RY ₈₀		9 6.9 20°66	2°0/ 8.5	17	R	131084	2000 YE ₁₂₃		9 6.9 208°58	3.7°/ 11.1	18	
7 30	23 24.69	+ 0 44.5	1.319	2.157	19.5	20.4	7 30	23 26.68	+ 8 11.2	2.280	3.039	14.7	20.5
8 9	23 22.34	+ 0 39.6	1.254	2.163	15.7	20.1	8 9	23 22.86	+ 8 4.4	2.182	3.034	12.3	20.3
8 19	23 17.30	+ 0 13.4	1.207	2.169	11.1	19.9	8 19	23 17.17	+ 7 39.5	2.104	3.028	9.4	20.1
8 29	23 10.19	- 0 31.3	1.181	2.177	6.1	19.6	8 29	23 10.05	+ 6 56.7	2.049	3.022	6.3	19.9
9 8	23 2.07	- 1 28.7	1.179	2.185	2.0	19.4	9 8	23 2.13	+ 5 58.5	2.022	3.015	3.9	19.8
9 18	22 54.17	- 2 30.6	1.201	2.194	5.5	19.7	9 18	22 54.19	+ 4 49.4	2.022	3.008	4.6	19.8
9 28	22 47.71	- 3 28.2	1.248	2.204	10.4	20.0	9 28	22 47.06	+ 3 35.7	2.051	3.000	7.5	20.0
10 8	22 43.61	- 4 14.3	1.316	2.214	14.7	20.2	10 8	22 41.44	+ 2 23.7	2.107	2.992	10.6	20.2
260697	2005 JV ₁₁₁		9 6.9 58°54	3°6/ 9.9	17		129759	1999 FU ₆₀		9 6.9 88°63	2°0/ 8.7	17	
7 30	23 28.43	+ 4 50.5	1.326	2.141	20.7	20.6	7 30	23 32.05	+ 2 35.1	1.472	2.282	19.2	20.2
8 9	23 25.12	+ 4 50.8	1.269	2.159	16.8	20.4	8 9	23 27.58	+ 2 10.3	1.417	2.308	15.4	20.0
8 19	23 19.08	+ 4 26.4	1.229	2.178	12.3	20.2	8 19	23 20.54	+ 1 23.8	1.381	2.334	10.9	19.8
8 29	23 10.99	+ 3 39.1	1.210	2.197	7.5	20.0	8 29	23 11.64	+ 0 19.2	1.367	2.359	6.0	19.6
9 8	23 1.99	+ 2 34.4	1.214	2.216	3.8	19.8	9 8	23 1.96	- 0 56.5	1.379	2.384	2.1	19.4
9 18	22 53.34	+ 1 20.7	1.244	2.235	5.7	20.0	9 18	22 52.70	- 2 14.9	1.418	2.409	5.2	19.7
9 28	22 46.26	+ 0 7.8	1.298	2.255	10.1	20.3	9 28	22 44.99	- 3 27.3	1.483	2.433	9.6	20.0
10 8	22 41.62	- 0 55.8	1.376	2.274	14.2	20.6	10 8	22 39.61	- 4 27.0	1.572	2.456	13.6	20.3
300927	2008 CE ₇₁		9 6.9 273°68	3°3/ 10.4	18		19469	1998 HV ₄₅		9 6.9 337°97	8°5/ 15.6	18	
7 30	23 25.17	+ 6 6.5	2.156	2.933	14.9	20.8	7 30	23 19.20	+17 17.1	1.475	2.234	21.4	16.6
8 9	23 21.89	+ 6 3.3	2.048	2.914	12.4	20.6	8 9	23 18.10	+17 35.1	1.386	2.223	18.8	16.4
8 19	23 16.65	+ 5 42.3	1.960	2.895	9.3	20.4	8 19	23 14.55	+17 20.4	1.313	2.212	15.6	16.2
8 29	23 9.84	+ 5 3.7	1.896	2.875	6.0	20.2	8 29	23 8.97	+16 29.1	1.257	2.203	12.2	15.9
9 8	23 2.11	+ 4 10.1	1.858	2.855	3.5	20.0	9 8	23 2.24	+15 1.8	1.223	2.194	9.4	15.8
9 18	22 54.25	+ 3 5.9	1.847	2.835	4.6	20.0	9 18	22 55.45	+13 4.0	1.212	2.187	8.6	15.7
9 28	22 47.17	+ 1 57.2	1.864	2.815	7.9	20.2	9 28	22 49.82	+10 46.9	1.225	2.180	10.6	15.8
10 8	22 41.62	+ 0 50.9	1.907	2.794	11.4	20.3	10 8	22 46.33	+ 8 25.1	1.261	2.174	14.1	16.0
480469	2015 LX ₈		9 6.9 293°54	9°0/ 30.2	18		472813	2015 FO ₁₆₂		9 6.9 241°64	3°3/ 3.9	17	
7 30	23 31.99	-26 0.5	1.626										

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
44337	1998 <i>RE</i> ₆₅	9 6.9 314°25	0°6/ 7.5 18				461157	2015 <i>TD</i> ₁₁₇	9 6.9 338°32	7°5/29.2 17			
7 30	23 25.88	- 2 13.3	1.737	2.564	16.0	19.1	7 30	23 20.11	-20 17.3	1.690	2.565	14.2	20.8
8 9	23 22.78	- 2 27.5	1.651	2.556	12.8	18.9	8 9	23 18.52	-22 9.5	1.618	2.550	11.3	20.6
8 19	23 17.41	- 2 56.9	1.585	2.548	8.9	18.6	8 19	23 14.64	-24 6.6	1.569	2.535	8.7	20.4
8 29	23 10.25	- 3 38.7	1.542	2.540	4.5	18.4	8 29	23 8.95	-25 58.5	1.545	2.522	7.5	20.3
9 8	23 2.11	- 4 28.0	1.525	2.533	0.7	18.1	9 8	23 2.27	-27 34.1	1.545	2.509	8.6	20.3
9 18	22 53.98	- 5 18.6	1.535	2.525	5.0	18.4	9 18	22 55.60	-28 44.9	1.570	2.497	11.3	20.5
9 28	22 46.92	- 6 3.8	1.571	2.518	9.4	18.6	9 28	22 50.03	-29 25.8	1.617	2.486	14.3	20.6
10 8	22 41.78	- 6 38.5	1.630	2.512	13.3	18.8	10 8	22 46.42	-29 36.2	1.684	2.476	17.2	20.8
449375	2013 <i>GG</i> ₉₄	9 6.9 131°93	2°4/10.1 18				168693	2000 <i>GV</i> ₅₉	9 6.9 133°97	2°0/ 4.7 18			
7 30	23 24.48	+ 5 9.8	2.525	3.298	13.1	21.8	7 30	23 29.09	-10 19.0	2.417	3.241	12.1	20.8
8 9	23 20.82	+ 4 52.0	2.440	3.306	10.7	21.6	8 9	23 24.40	-10 57.5	2.347	3.254	9.4	20.6
8 19	23 15.59	+ 4 19.3	2.377	3.314	7.9	21.4	8 19	23 17.99	-11 42.3	2.300	3.267	6.3	20.5
8 29	23 9.20	+ 3 32.9	2.339	3.321	4.8	21.3	8 29	23 10.34	-12 29.2	2.280	3.279	3.1	20.3
9 8	23 2.24	+ 2 36.2	2.329	3.329	2.5	21.1	9 8	23 2.13	-13 13.2	2.289	3.291	2.3	20.2
9 18	22 55.36	+ 1 33.6	2.347	3.336	3.7	21.2	9 18	22 54.09	-13 49.9	2.327	3.302	5.1	20.5
9 28	22 49.24	+ 0 30.1	2.394	3.342	6.5	21.4	9 28	22 46.96	-14 15.9	2.393	3.312	8.1	20.7
10 8	22 44.43	- 0 29.1	2.468	3.349	9.4	21.6	10 8	22 41.32	-14 29.4	2.484	3.322	10.9	20.9
68302	2001 <i>FH</i> ₉₆	9 6.9 279°80	0°7/ 6.0 18				504711	2009 <i>SP</i> ₁₇₁	9 6.9 216°83	22°3/23.7 18			
7 30	23 22.00	- 3 15.3	2.346	3.166	12.6	19.7	7 30	23 42.69	+37 52.5	1.224	1.825	31.8	22.4
8 9	23 19.10	- 4 21.6	2.260	3.163	9.9	19.5	8 9	23 38.95	+39 38.5	1.133	1.815	30.3	22.2
8 19	23 14.54	- 5 41.4	2.196	3.161	6.6	19.3	8 19	23 30.55	+40 46.1	1.047	1.801	28.5	21.9
8 29	23 8.74	- 7 10.7	2.158	3.158	3.1	19.1	8 29	23 17.57	+40 57.8	0.971	1.784	26.3	21.7
9 8	23 2.29	- 8 43.2	2.149	3.156	1.0	18.9	9 8	23 1.20	+39 56.0	0.906	1.764	24.1	21.4
9 18	22 55.87	-10 12.6	2.170	3.153	4.5	19.2	9 18	22 43.71	+37 28.2	0.857	1.741	22.6	21.2
9 28	22 50.21	-11 32.6	2.218	3.151	8.0	19.4	9 28	22 28.08	+33 36.4	0.826	1.715	22.5	21.1
10 8	22 45.90	-12 38.6	2.292	3.148	11.0	19.6	10 8	22 16.72	+28 41.5	0.816	1.685	24.2	21.1
311540	2005 <i>YW</i> ₁₉₉	9 6.9 129°38	3°6/11.5 18				474678	2005 <i>ED</i> ₃₁	9 6.9 227°09	1°4/ 5.5 18			
7 30	23 26.96	+ 8 7.5	2.807	3.551	12.6	20.8	7 30	23 29.19	- 8 7.0	2.440	3.258	12.2	22.4
8 9	23 22.56	+ 8 21.3	2.722	3.563	10.4	20.7	8 9	23 24.68	- 8 39.6	2.342	3.246	9.6	22.2
8 19	23 16.68	+ 8 21.5	2.658	3.574	8.0	20.6	8 19	23 18.36	- 9 20.5	2.267	3.233	6.5	22.0
8 29	23 9.70	+ 8 8.2	2.619	3.585	5.5	20.4	8 29	23 10.62	-10 6.3	2.219	3.219	3.1	21.8
9 8	23 2.19	+ 7 43.1	2.608	3.595	3.7	20.3	9 8	23 2.10	-10 52.2	2.200	3.204	1.7	21.7
9 18	22 54.75	+ 7 8.8	2.625	3.605	4.1	20.4	9 18	22 53.55	-11 33.5	2.209	3.189	4.8	21.9
9 28	22 48.03	+ 6 29.3	2.671	3.615	6.2	20.5	9 28	22 45.78	-12 6.0	2.248	3.173	8.2	22.0
10 8	22 42.54	+ 5 48.8	2.744	3.624	8.6	20.7	10 8	22 39.47	-12 26.8	2.311	3.157	11.3	22.2
288707	2004 <i>RN</i> ₆	9 6.9 28°56	5°0/ 3.9 18				486385	2013 <i>EA</i> ₂₇	9 6.9 255°50	1°6/ 5.3 18			
7 30	23 34.94	-18 50.9	1.493	2.349	16.8	19.2	7 30	23 25.96	- 8 13.5	2.166	2.998	13.1	21.5
8 9	23 29.78	-18 56.8	1.446	2.368	13.1	19.0	8 9	23 22.33	- 8 50.6	2.081	2.992	10.2	21.3
8 19	23 21.94	-19 1.9	1.419	2.387	9.2	18.9	8 19	23 16.82	- 9 36.9	2.018	2.987	6.9	21.1
8 29	23 12.26	-19 0.1	1.415	2.407	5.8	18.7	8 29	23 9.88	-10 28.4	1.981	2.981	3.3	20.9
9 8	23 1.91	-18 45.8	1.437	2.429	5.4	18.8	9 8	23 2.18	-11 19.5	1.972	2.976	1.9	20.8
9 18	22 52.17	-18 16.2	1.484	2.451	8.3	19.0	9 18	22 54.53	-12 5.0	1.990	2.970	5.2	21.0
9 28	22 44.17	-17 30.8	1.557	2.474	11.8	19.2	9 28	22 47.77	-12 40.2	2.036	2.964	8.8	21.2
10 8	22 38.64	-16 31.5	1.651	2.497	15.0	19.5	10 8	22 42.57	-13 2.1	2.106	2.958	12.0	21.4
449669	2014 <i>KS</i> ₈₄	9 6.9 173°38	18°2/19.2 17				298281	2002 <i>XD</i> ₉₄	9 6.9 311°58	1°9/ 8.8 18			
7 30	23 37.47	-41 31.1	1.204	2.055	20.3	20.9	7 30	23 24.34	+ 1 55.8	1.886	2.694	15.7	20.5
8 9	23 34.02	-44 33.4	1.179	2.056	18.8	20.8	8 9	23 21.38	+ 1 38.4	1.798	2.688	12.7	20.3
8 19	23 26.14	-47 12.7	1.173	2.057	18.2	20.8	8 19	23 16.36	+ 1 3.2	1.730	2.683	9.1	20.0
8 29	23 14.71	-49 10.5	1.185	2.058	18.7	20.8	8 29	23 9.72	+ 0 12.4	1.686	2.677	5.1	19.8
9 8	23 1.60	-50 14.1	1.215	2.058	20.1	20.9	9 8	23 2.21	- 0 49.6	1.667	2.672	1.9	19.6
9 18	22 49.12	-50 19.8	1.261	2.058	21.9	21.0	9 18	22 54.71	- 1 56.8	1.676	2.667	4.5	19.7
9 28	22 39.41	-49 32.0	1.320	2.058	23.7	21.2	9 28	22 48.18	- 3 2.1	1.712	2.662	8.5	20.0
10 8	22 33.71	-48 1.2	1.391	2.058	25.4	21.4	10 8	22 43.37	- 3 59.2	1.772	2.657	12.2	20.2
404888	2014 <i>KU</i> ₇₃	9 6.9 11°22	0°6/ 7.6 17				79619	1998 <i>RA</i> ₆₂	9 6.9 353°23	0°7/ 7.4 18			
7 30	23 21.03	+ 0 1.1	1.721	2.549	16.1	20.7	7 30	23 25.12	- 3 13.5	1.184	2.042	20.1	19.2
8 9	23 18.89	- 0 42.7	1.646	2.552	12.8	20.5	8 9	23 23.13	- 3 12.1	1.114	2.037	16.0	18.9
8 19	23 14.67	- 1 45.2	1.592	2.555	8.9	20.2	8 19	23 18.14	- 3 29.0	1.061	2.032	11.1	18.7
8 29	23 8.88	- 3 2.7	1.561	2.559	4.5	20.0	8 29	23 10.76	- 4 1.1	1.029	2.029	5.6	18.4
9 8	23 2.28	- 4 28.4	1.556	2.563	0.6	19.7	9 8	23 2.09	- 4 42.2	1.020	2.027	0.8	18.0
9 18	22 55.79	- 5 54.4	1.578	2.568	4.8	20.0	9 18	22 53.54	- 5 24.4	1.034	2.026	6.3	18.4
9 28	22 50.35	- 7 12.4	1.626	2.574	9.1	20.3	9 28	22 46.55	- 5 59.2	1.070	2.026	11.7	18.7
10 8	22 46.69	- 8 16.3	1.697	2.581	12.8	20.6	10 8	22 42.21	- 6 20.6	1.127	2.027	16.5	19.0
349013	2006 <i>UM</i> ₂₈₅	9 6.9 256°21	0°4/ 7.3 17				11649	1997 <i>BR</i> ₆	9 6.9 283°56	0°6/ 7.4 18			
7 30	23 28.74	- 2 14.1	1.690	2.513	16.6	21.7	7 30	23 30.29	- 3 29.8	1.511	2.343	17.8	17.8
8 9	23 25.20	- 2 34.4	1.597	2.500	13.3	21.5	8 9	23 26.77	- 3 28.5	1.419	2.327	14.3	17.5
8 19	23 19.19	- 3 11.2	1.524	2.486	9.2	21.2	8 19	23 20.49	- 3 42.0	1.346	2.310	10.0	17.2
8 29	23 11.17	- 4 1.6	1.474	2.472	4.6	20.9	8 29	23 11.90	- 4 8.0	1.295	2.294	5.0	16.9
9 8	23 2.01	- 5 0.1	1.450	2.458	0.6	20.6	9 8	23 1.96	- 4 41.6	1.270	2.277	0.7	16.5
9 18	22 52.75	- 5 59.8	1.454	2.443	5.3	20.9	9 18	22 51.88	- 5 16.7	1.270	2.261	5.8	16.9
9 28	22 44.60	- 6 53.3	1.483	2.428	10.1	21.1	9 28	22 43.04	- 5 46.5	1.296	2.244	10.9	17.1
10 8	22 38.50	- 7 34.6	1.536	2.413	14.3	21.4	10 8	22 36.54	- 6 5.6	1.344	2.227	15.5	17.3
218057	2002 <i>ET</i> ₄₁	9 6.9 68°38	2°3/ 9.1 18				337257	2000 <i>SJ</i> ₉₈	9 6.9 320°97				

EPHEMERIDES

9 6.9

9 6.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
126919	2002 <i>ES</i> ₁₃₁		9 6.9 346°53	1°5/ 5.9 18			382993	2005 <i>ED</i> ₁₉₀		9 6.9 193°79	0°3/ 7.3 18		
7 30	23 28.77	- 8 22.1	1.466	2.317	17.3	19.3	7 30	23 27.12	- 2 8.7	2.290	3.096	13.3	22.1
8 9	23 25.43	- 8 31.5	1.391	2.312	13.6	19.0	8 9	23 23.12	- 2 40.8	2.201	3.095	10.5	21.9
8 19	23 19.40	- 8 51.8	1.336	2.308	9.2	18.8	8 19	23 17.31	- 3 25.6	2.134	3.092	7.2	21.7
8 29	23 11.27	- 9 18.4	1.303	2.304	4.4	18.5	8 29	23 10.13	- 4 20.2	2.092	3.090	3.6	21.5
9 8	23 2.05	- 9 45.3	1.295	2.301	1.8	18.3	9 8	23 2.22	- 5 20.1	2.079	3.086	0.4	21.2
9 18	22 52.96	-10 6.2	1.313	2.298	6.4	18.6	9 18	22 54.34	- 6 19.8	2.095	3.082	4.1	21.5
9 28	22 45.25	-10 15.9	1.355	2.297	11.1	18.9	9 28	22 47.30	- 7 14.0	2.139	3.078	7.8	21.7
10 8	22 39.87	-10 11.4	1.419	2.295	15.3	19.1	10 8	22 41.75	- 7 58.5	2.208	3.073	11.0	21.9
260169	2004 <i>RQ</i> ₈₄		9 6.9 10°15	13°2/21.7 18			9785	Senjikan		9 6.9 139°47	0°8/ 6.2 18		
7 30	23 26.07	-38 25.5	1.677	2.528	15.4	19.1	7 30	23 28.29	- 6 13.5	2.030	2.855	14.1	18.1
8 9	23 23.52	-40 37.5	1.647	2.531	14.0	19.0	8 9	23 24.21	- 6 38.0	1.952	2.859	11.0	17.9
8 19	23 18.13	-42 33.9	1.638	2.534	13.2	19.0	8 19	23 18.12	- 7 12.9	1.896	2.862	7.4	17.7
8 29	23 10.62	-44 3.2	1.650	2.539	13.4	19.0	8 29	23 10.52	- 7 54.4	1.866	2.866	3.5	17.5
9 8	23 2.13	-44 57.1	1.683	2.544	14.5	19.1	9 8	23 2.18	- 8 37.4	1.862	2.869	1.1	17.3
9 18	22 53.98	-45 12.0	1.735	2.550	16.1	19.2	9 18	22 53.96	- 9 16.7	1.887	2.872	4.9	17.6
9 28	22 47.45	-44 49.0	1.805	2.557	17.7	19.3	9 28	22 46.76	- 9 47.6	1.939	2.875	8.7	17.8
10 8	22 43.39	-43 53.1	1.890	2.564	19.3	19.5	10 8	22 41.26	-10 6.9	2.016	2.878	12.0	18.0
9323	Hirohisasato		9 6.9 259°21	3°3/ 4.0 18 R			175276	2005 <i>JD</i> ₁₇₉		9 6.9 1°04	4°5/ 2.7 18		
7 30	23 28.85	-10 35.7	1.713	2.559	15.4	18.7	7 30	23 26.49	-14 45.9	1.771	2.627	14.5	19.9
8 9	23 25.31	-11 32.5	1.624	2.543	12.1	18.4	8 9	23 23.19	-15 45.9	1.702	2.626	11.3	19.7
8 19	23 19.28	-12 41.0	1.555	2.527	8.2	18.1	8 19	23 17.62	-16 52.0	1.655	2.626	7.8	19.4
8 29	23 11.25	-13 54.8	1.511	2.510	4.4	17.9	8 29	23 10.34	-17 57.1	1.632	2.626	4.9	19.3
9 8	23 2.06	-15 5.8	1.494	2.493	3.8	17.8	9 8	23 2.22	-18 53.6	1.635	2.626	5.0	19.3
9 18	22 52.79	-16 5.7	1.503	2.476	7.5	18.0	9 18	22 54.24	-19 34.7	1.665	2.627	8.0	19.5
9 28	22 44.64	-16 47.9	1.538	2.458	11.7	18.2	9 28	22 47.43	-19 56.4	1.719	2.628	11.4	19.7
10 8	22 38.57	-17 9.2	1.595	2.440	15.5	18.4	10 8	22 42.57	-19 57.3	1.796	2.629	14.6	19.9
428014	2006 <i>BE</i> ₁₃₄		9 6.9 88°06	2°8/ 4.3 17			384282	Evgeniyegorov		9 6.9 337°00	1°0/ 6.3 18		
7 30	23 28.93	- 9 47.5	1.786	2.627	15.1	21.4	7 30	23 21.96	- 6 13.4	1.098	1.974	20.1	20.0
8 9	23 24.81	-10 49.8	1.731	2.648	11.6	21.2	8 9	23 21.04	- 6 22.8	1.021	1.956	15.9	19.7
8 19	23 18.52	-12 1.4	1.697	2.668	7.7	21.0	8 19	23 17.01	- 6 49.5	0.960	1.938	11.0	19.3
8 29	23 10.67	-13 15.7	1.689	2.688	4.0	20.8	8 29	23 10.36	- 7 29.2	0.920	1.922	5.3	19.0
9 8	23 2.15	-14 24.9	1.708	2.708	3.3	20.8	9 8	23 2.20	- 8 14.3	0.901	1.908	1.5	18.7
9 18	22 53.92	-15 22.3	1.754	2.727	6.6	21.1	9 18	22 53.96	- 8 55.4	0.904	1.895	7.4	19.0
9 28	22 46.95	-16 3.1	1.826	2.746	10.2	21.4	9 28	22 47.27	- 9 23.8	0.929	1.884	13.2	19.3
10 8	22 41.90	-16 25.4	1.921	2.765	13.4	21.6	10 8	22 43.35	- 9 33.4	0.972	1.874	18.4	19.5
109484	2001 <i>QN</i> ₂₂₃		9 6.9 69°09	0°9/ 7.7 17 R			213485	2002 <i>FD</i> ₁₅		9 6.9 209°64	5°5/ 2.7 17		
7 30	23 30.67	- 1 28.7	1.449	2.277	18.6	19.7	7 30	23 34.08	-16 49.8	1.615	2.465	16.0	20.2
8 9	23 26.60	- 1 44.0	1.393	2.298	14.7	19.5	8 9	23 29.46	-17 46.3	1.542	2.461	12.6	19.9
8 19	23 19.95	- 2 16.8	1.356	2.319	10.1	19.3	8 19	23 22.09	-18 47.8	1.489	2.457	8.9	19.7
8 29	23 11.41	- 3 3.4	1.342	2.339	5.1	19.1	8 29	23 12.58	-19 46.1	1.461	2.452	5.9	19.5
9 8	23 2.07	- 3 57.1	1.353	2.360	0.9	18.9	9 8	23 1.97	-20 32.3	1.459	2.447	6.1	19.5
9 18	22 53.10	- 4 50.7	1.390	2.381	5.3	19.2	9 18	22 51.51	-20 59.4	1.483	2.441	9.2	19.7
9 28	22 45.66	- 5 37.1	1.453	2.402	9.9	19.6	9 28	22 42.48	-21 3.8	1.532	2.435	12.9	19.9
10 8	22 40.54	- 6 11.1	1.539	2.422	13.9	19.9	10 8	22 35.84	-20 45.3	1.602	2.428	16.4	20.1
361809	2008 <i>CD</i> ₄₈		9 6.9 266°58	0°2/ 7.2 18			437533	2013 <i>YE</i> ₁₁₅		9 6.9 336°91	7°3/30.6 18		
7 30	23 26.53	- 1 14.5	2.584	3.381	12.2	22.1	7 30	23 22.40	-16 40.8	1.384	2.264	16.5	20.5
8 9	23 22.69	- 2 1.4	2.461	3.349	9.8	21.9	8 9	23 20.75	-18 41.2	1.319	2.256	12.9	20.2
8 19	23 17.09	- 3 2.5	2.360	3.316	6.8	21.7	8 19	23 16.41	-20 51.4	1.275	2.248	9.4	20.0
8 29	23 10.08	- 4 15.5	2.286	3.283	3.4	21.4	8 29	23 9.92	-22 59.2	1.255	2.242	7.4	19.9
9 8	23 2.20	- 5 35.9	2.242	3.249	0.3	21.1	9 8	23 2.27	-24 50.8	1.259	2.235	8.5	19.9
9 18	22 54.11	- 6 58.2	2.227	3.214	4.1	21.3	9 18	22 54.71	-26 15.2	1.287	2.230	11.8	20.1
9 28	22 46.60	- 8 16.2	2.242	3.178	7.7	21.5	9 28	22 48.51	-27 5.8	1.337	2.225	15.5	20.3
10 8	22 40.37	- 9 24.6	2.284	3.142	11.0	21.7	10 8	22 44.67	-27 22.0	1.405	2.221	18.8	20.5
364079	2005 <i>YZ</i> ₅₀		9 6.9 304°15	3°2/ 3.5 18			266068	2006 <i>RX</i> ₁₀		9 6.9 324°75	0°7/ 7.5 18		
7 30	23 23.82	-11 44.8	2.050	2.897	13.2	20.7	7 30	23 20.89	- 1 41.7	1.140	2.003	20.4	20.4
8 9	23 20.91	-12 42.5	1.959	2.880	10.2	20.5	8 9	23 20.17	- 1 55.7	1.054	1.980	16.4	20.1
8 19	23 16.02	-13 49.1	1.891	2.863	7.0	20.3	8 19	23 16.44	- 2 33.3	0.985	1.957	11.6	19.7
8 29	23 9.57	-14 59.0	1.849	2.847	3.9	20.1	8 29	23 10.14	- 3 32.1	0.936	1.936	5.9	19.4
9 8	23 2.26	-16 5.4	1.834	2.830	3.7	20.0	9 8	23 2.23	- 4 45.1	0.908	1.915	0.8	18.9
9 18	22 54.92	-17 1.7	1.845	2.814	6.7	20.2	9 18	22 54.11	- 6 2.2	0.903	1.896	6.7	19.3
9 28	22 48.45	-17 42.7	1.883	2.798	10.2	20.4	9 28	22 47.37	- 7 11.4	0.919	1.877	12.8	19.5
10 8	22 43.60	-18 5.3	1.944	2.782	13.4	20.5	10 8	22 43.33	- 8 3.0	0.955	1.861	18.2	19.8
224994	2007 <i>EN</i> ₁₂₈		9 6.9 251°38	0°0/ 6.8 18			509177	2006 <i>HA</i> ₇₈		9 6.9 18°95	4°1/ 3.8 18		
7 30	23 28.84	- 3 32.5	1.788	2.612	15.8	21.6	7 30	23 27.86	-13 26.0	1.454	2.317	16.8	20.5
8 9	23 25.13	- 3 55.0	1.696	2.600	12.5	21.4	8 9	23 24.65	-14 8.1	1.393	2.321	13.0	20.3
8 19	23 19.06	- 4 32.1	1.624	2.587	8.7	21.1	8 19	23 18.79	-14 57.6	1.351	2.326	8.9	20.1
8 29	23 11.11	- 5 20.6	1.576	2.575	4.2	20.8	8 29	23 10.95	-15 47.1	1.333	2.331	5.1	19.9
9 8	23 2.09	- 6 15.0	1.554	2.562	0.5	20.5	9 8	23 2.17	-16 28.5	1.340	2.337	4.6	19.9
9 18	22 53.02	- 7 8.9	1.560	2.548	5.3	20.8	9 18	22 53.67	-16 54.9	1.371	2.343	8.1	20.1
9 28	22 45.00	- 7 55.7	1.593	2.535	9.7	21.1	9 28	22 46.63	-17 2.2	1.427	2.351	12.2	20.4
10 8	22 38.93	- 8 30.2	1.649	2.521	13.7	21.3	10 8	22 41.90	-16 49.4	1.503	2.358	15.8	20.6
54977	2001 <i>PQ</i> ₄₉		9 6.9 230°18	6°2/15.6 18			105964	2000 <i>SX</i> ₂₅₈		9 6.9 13°79	0°1/ 6.9 18		

EPHEMERIDES

9 6.9

9 7.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
510334	2011 <i>SP</i> ₇₂		9 6.9 77°49	2.2/ 9.3	18		507113	2009 <i>SR</i> ₄₁		9 7.0 219°01	1.1/ 8.0	17	
7 30	23 25.27	+ 3 37.7	1.892	2.691	16.0	22.0	7 30	23 29.17	- 0 8.0	1.986	2.790	15.2	22.3
8 9	23 21.99	+ 3 14.7	1.817	2.700	12.9	21.8	8 9	23 25.14	- 0 30.8	1.892	2.781	12.2	22.0
8 19	23 16.68	+ 2 33.1	1.762	2.710	9.3	21.6	8 19	23 18.96	- 1 9.5	1.818	2.773	8.6	21.8
8 29	23 9.87	+ 1 35.0	1.730	2.719	5.4	21.4	8 29	23 11.08	- 2 1.7	1.769	2.763	4.5	21.5
9 8	23 2.31	+ 0 25.3	1.725	2.729	2.3	21.2	9 8	23 2.25	- 3 2.7	1.747	2.753	1.1	21.3
9 18	22 54.89	- 0 49.6	1.748	2.739	4.4	21.4	9 18	22 53.39	- 4 6.5	1.753	2.743	4.5	21.5
9 28	22 48.50	- 2 2.5	1.797	2.748	8.1	21.6	9 28	22 45.47	- 5 6.6	1.787	2.731	8.7	21.7
10 8	22 43.84	- 3 6.9	1.872	2.758	11.7	21.9	10 8	22 39.31	- 5 57.2	1.846	2.720	12.4	21.9
393022	2012 <i>XG</i> ₁₅₅		9 7.0 58°24	4.4/ 2.9	18		512788	2016 <i>UT</i> ₇₃		9 7.0 186°60	1.6/ 5.5	18	
7 30	23 27.84	-14 43.5	1.818	2.670	14.4	20.7	7 30	23 28.48	- 8 14.9	1.955	2.788	14.3	21.6
8 9	23 24.17	-15 42.6	1.750	2.672	11.2	20.5	8 9	23 24.51	- 8 44.2	1.876	2.788	11.1	21.4
8 19	23 18.26	-16 47.6	1.703	2.673	7.7	20.3	8 19	23 18.43	- 9 23.1	1.819	2.787	7.5	21.2
8 29	23 10.66	-17 51.6	1.681	2.675	4.8	20.2	8 29	23 10.77	-10 7.1	1.787	2.787	3.6	20.9
9 8	23 2.23	-18 47.0	1.685	2.676	4.9	20.2	9 8	23 2.30	-10 50.7	1.782	2.787	1.9	20.8
9 18	22 53.97	-19 27.5	1.716	2.678	7.8	20.4	9 18	22 53.93	-11 28.3	1.805	2.786	5.5	21.1
9 28	22 46.86	-19 48.9	1.772	2.679	11.2	20.6	9 28	22 46.61	-11 55.3	1.854	2.786	9.3	21.3
10 8	22 41.69	-19 50.1	1.850	2.681	14.3	20.8	10 8	22 41.07	-12 8.8	1.928	2.785	12.7	21.5
24253	1999 <i>XX</i> ₁₂₀		9 7.0 349°27	4.2/ 4.1	18		180431	2004 <i>BR</i> ₉₆		9 7.0 145°78	0.8/ 7.7	17	
7 30	23 30.26	-13 9.9	1.325	2.190	18.0	17.9	7 30	23 29.73	- 1 36.9	1.627	2.449	17.2	20.7
8 9	23 26.91	-13 47.0	1.258	2.187	14.1	17.7	8 9	23 25.90	- 1 52.5	1.551	2.452	13.7	20.5
8 19	23 20.58	-14 32.7	1.210	2.185	9.6	17.4	8 19	23 19.60	- 2 24.7	1.494	2.455	9.5	20.2
8 29	23 11.93	-15 19.3	1.184	2.183	5.4	17.2	8 29	23 11.41	- 3 10.3	1.461	2.458	4.9	20.0
9 8	23 2.10	-15 57.8	1.183	2.181	4.7	17.2	9 8	23 2.23	- 4 3.7	1.453	2.460	0.8	19.7
9 18	22 52.48	-16 20.9	1.206	2.180	8.6	17.4	9 18	22 53.18	- 4 58.2	1.473	2.463	5.1	20.0
9 28	22 44.48	-16 23.7	1.252	2.180	13.1	17.6	9 28	22 45.39	- 5 46.8	1.518	2.465	9.7	20.3
10 8	22 39.09	-16 5.2	1.318	2.180	17.2	17.9	10 8	22 39.71	- 6 24.0	1.587	2.467	13.7	20.6
47444	1999 <i>XA</i> ₂₀₅		9 7.0 194°04	3°0/ 4.1	18		105773	2000 <i>SC</i> ₁₁₁		9 7.0 249°93	3°5/ 3.5	18	
7 30	23 30.73	-13 21.5	2.257	3.089	12.7	19.2	7 30	23 29.65	-15 31.0	2.257	3.094	12.5	19.9
8 9	23 25.97	-13 56.4	2.176	3.087	9.8	19.0	8 9	23 25.19	-16 3.5	2.174	3.087	9.7	19.7
8 19	23 19.27	-14 36.2	2.118	3.085	6.7	18.8	8 19	23 18.79	-16 39.5	2.113	3.080	6.7	19.5
8 29	23 11.11	-15 16.1	2.086	3.082	3.8	18.6	8 29	23 10.91	-17 13.9	2.079	3.073	4.1	19.3
9 8	23 2.21	-15 50.9	2.083	3.079	3.3	18.6	9 8	23 2.29	-17 41.5	2.073	3.065	3.9	19.3
9 18	22 53.42	-16 16.0	2.107	3.076	6.0	18.7	9 18	22 53.75	-17 58.1	2.094	3.058	6.5	19.4
9 28	22 45.58	-16 28.1	2.160	3.072	9.2	18.9	9 28	22 46.14	-18 0.6	2.143	3.050	9.5	19.6
10 8	22 39.39	-16 25.8	2.236	3.068	12.1	19.1	10 8	22 40.18	-17 48.2	2.215	3.042	12.4	19.8
9722	Levi-Montalcini		9 7.0 243°56	0°4/ 6.6	18		19102	1981 <i>EH</i> ₈		9 7.0 169°12	1°8/ 8.5	18	
7 30	23 29.76	- 4 37.7	1.868	2.691	15.3	19.1	7 30	23 33.52	+ 0 2.2	1.776	2.578	16.7	19.6
8 9	23 25.79	- 5 3.9	1.774	2.678	12.1	18.9	8 9	23 28.67	+ 0 6.6	1.695	2.582	13.5	19.4
8 19	23 19.50	- 5 43.5	1.699	2.664	8.3	18.7	8 19	23 21.40	- 0 4.4	1.633	2.585	9.6	19.2
8 29	23 11.37	- 6 33.2	1.650	2.649	4.0	18.4	8 29	23 12.26	- 0 28.9	1.595	2.588	5.3	18.9
9 8	23 2.18	- 7 27.3	1.627	2.635	0.8	18.1	9 8	23 2.14	- 1 3.1	1.584	2.590	1.9	18.7
9 18	22 52.92	- 8 19.6	1.633	2.619	5.3	18.4	9 18	22 52.12	- 1 41.9	1.601	2.591	4.9	18.9
9 28	22 44.66	- 9 3.8	1.665	2.603	9.7	18.6	9 28	22 43.31	- 2 19.4	1.645	2.592	9.1	19.2
10 8	22 38.29	- 9 35.3	1.721	2.587	13.6	18.8	10 8	22 36.57	- 2 50.2	1.713	2.592	13.0	19.4
130060	1999 <i>VO</i> ₁₈₅		9 7.0 78°03	3°8/ 10.8	18		360729	2004 <i>TK</i> ₂₄₇		9 7.0 332°86	5°6/ 31.8	18	
7 30	23 26.00	+ 7 7.2	1.817	2.601	17.1	19.4	7 30	23 21.58	-16 16.3	1.753	2.621	14.1	19.5
8 9	23 22.68	+ 7 0.4	1.742	2.611	14.1	19.2	8 9	23 19.57	-17 44.3	1.676	2.606	11.1	19.3
8 19	23 17.23	+ 6 32.4	1.685	2.621	10.6	19.0	8 19	23 15.35	-19 19.8	1.620	2.592	7.9	19.1
8 29	23 10.17	+ 5 44.2	1.652	2.631	6.8	18.8	8 29	23 9.38	-20 54.5	1.589	2.578	5.8	18.9
9 8	23 2.32	+ 4 39.8	1.644	2.641	4.0	18.7	9 8	23 2.46	-22 18.9	1.584	2.565	6.5	18.9
9 18	22 54.61	+ 3 25.1	1.662	2.651	4.9	18.7	9 18	22 55.55	-23 24.8	1.604	2.553	9.3	19.1
9 28	22 47.99	+ 2 8.0	1.708	2.661	8.3	19.0	9 28	22 49.67	-24 6.5	1.648	2.542	12.7	19.3
10 8	22 43.19	+ 0 55.9	1.778	2.671	11.8	19.2	10 8	22 45.67	-24 22.3	1.712	2.531	15.8	19.4
231746	1999 <i>TO</i> ₄₉		9 7.0 40°49	2°6/ 4.9	18		76576	2000 <i>GP</i> ₁₁₈		9 7.0 309°02	1°2/ 8.1	18	
7 30	23 28.71	-10 11.3	1.639	2.487	15.9	20.6	7 30	23 25.64	- 0 27.2	1.830	2.647	15.7	19.9
8 9	23 25.03	-10 46.0	1.571	2.491	12.4	20.4	8 9	23 22.52	- 0 41.2	1.742	2.640	12.6	19.7
8 19	23 18.93	-11 30.0	1.524	2.496	8.3	20.2	8 19	23 17.24	- 1 11.2	1.675	2.633	8.9	19.4
8 29	23 11.02	-12 17.7	1.501	2.501	4.2	19.9	8 29	23 10.26	- 1 54.8	1.631	2.627	4.7	19.2
9 8	23 2.23	-13 2.0	1.503	2.506	3.0	19.9	9 8	23 2.37	- 2 47.4	1.614	2.620	1.2	18.9
9 18	22 53.65	-13 36.7	1.532	2.511	6.7	20.1	9 18	22 54.48	- 3 43.1	1.623	2.614	4.6	19.1
9 28	22 46.35	-13 56.8	1.587	2.516	10.7	20.4	9 28	22 47.60	- 4 35.3	1.659	2.608	8.9	19.4
10 8	22 41.16	-14 0.2	1.663	2.522	14.3	20.6	10 8	22 42.53	- 5 18.3	1.719	2.603	12.7	19.6
388243	2006 <i>KU</i> ₄₂		9 7.0 193°79	6°5/ 31.1	18		32213	Joshuachoe		9 7.0 47°63	0°5/ 7.5	18	
7 30	23 31.32	-23 8.8	2.128	2.972	12.9	21.8	7 30	23 26.46	- 2 31.2	1.989	2.806	14.6	19.1
8 9	23 26.66	-24 19.0	2.060	2.971	10.3	21.6	8 9	23 22.87	- 2 47.9	1.909	2.809	11.6	18.9
8 19	23 19.85	-25 28.3	2.015	2.969	7.9	21.4	8 19	23 17.30	- 3 17.7	1.851	2.812	8.0	18.6
8 29	23 11.42	-26 29.3	1.996	2.967	6.6	21.4	8 29	23 10.22	- 3 57.6	1.817	2.814	4.0	18.4
9 8	23 2.19	-27 14.8	2.004	2.964	7.2	21.4	9 8	23 2.39	- 4 43.1	1.810	2.817	0.5	18.1
9 18	22 53.12	-27 39.9	2.038	2.961	9.3	21.5	9 18	22 54.65	- 5 29.0	1.831	2.820	4.4	18.5
9 28	22 45.15	-27 42.4	2.097	2.957	11.8	21.7	9 28	22 47.89	- 6 9.7	1.878	2.823	8.3	18.7
10 8	22 39.05	-27 23.0	2.177	2.953	14.3	21.8	10 8	22 42.82	- 6 40.9	1.951	2.826	11.8	18.9
54900	2001 <i>OL</i> ₇₄		9 7.0 31°98	3°8/ 4.1	18		381726	2009 <i>RW</i> ₁₂		9 7.0 339°25	1°1/ 6.3	18	