

EPHEMERIDES

8 26.9

8 27.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
459561	2013 <i>GM</i> ₉₂		8 26.9 35°49	3°3/29.1	17		515611	2014 <i>KF</i> ₁₉		8 27.0 178°54	1°5/25.5	18	
7 20	22 48.09	- 1 34.7	0.825	1.699	25.3	19.9	7 20	22 46.54	-11 53.2	2.072	2.914	13.3	21.8
7 30	22 45.36	- 1 29.7	0.798	1.728	20.0	19.7	7 30	22 42.64	-12 31.7	1.994	2.914	10.2	21.6
8 9	22 39.18	- 1 53.8	0.786	1.759	14.0	19.5	8 9	22 36.83	-13 19.0	1.939	2.914	6.7	21.4
8 19	22 30.64	- 2 42.5	0.791	1.791	7.6	19.3	8 19	22 29.58	-14 10.6	1.910	2.914	3.1	21.1
8 29	22 21.37	- 3 46.7	0.817	1.824	3.3	19.2	8 29	22 21.63	-15 1.2	1.908	2.914	2.1	21.1
9 8	22 13.13	- 4 54.3	0.864	1.859	7.2	19.6	9 8	22 13.86	-15 45.2	1.934	2.914	5.6	21.3
9 18	22 7.26	- 5 54.8	0.932	1.894	12.5	20.0	9 18	22 7.11	-16 18.6	1.986	2.914	9.2	21.5
9 28	22 4.55	- 6 40.9	1.019	1.930	17.1	20.4	9 28	22 2.06	-16 38.7	2.062	2.914	12.4	21.7
122522	2000 <i>QK</i> ₂₀₇		8 26.9 127°01	2°4/25.3	18		510974	2013 <i>GO</i> ₁₃₂		8 27.0 121°92	0°0/27.0	18	
7 20	22 53.35	-15 22.2	1.728	2.575	15.3	19.0	7 20	22 46.51	- 8 4.2	2.362	3.186	12.5	21.8
7 30	22 48.24	-15 36.7	1.656	2.578	11.8	18.8	7 30	22 42.30	- 8 25.2	2.285	3.193	9.7	21.6
8 9	22 40.70	-15 56.7	1.605	2.580	7.8	18.5	8 9	22 36.43	- 8 55.5	2.231	3.199	6.5	21.5
8 19	22 31.34	-16 17.4	1.579	2.582	3.8	18.3	8 19	22 29.35	- 9 32.2	2.203	3.206	2.9	21.2
8 29	22 21.15	-16 33.3	1.579	2.584	2.9	18.3	8 29	22 21.70	-10 11.3	2.203	3.212	0.7	21.1
9 8	22 11.29	-16 39.9	1.607	2.586	6.7	18.5	9 8	22 14.24	-10 48.6	2.231	3.218	4.3	21.4
9 18	22 2.83	-16 34.5	1.661	2.588	10.7	18.7	9 18	22 7.67	-11 20.4	2.287	3.224	7.7	21.6
9 28	21 56.63	-16 16.1	1.737	2.590	14.3	19.0	9 28	22 2.59	-11 43.9	2.369	3.230	10.6	21.8
425543	2010 <i>RM</i> ₅₁		8 26.9 312°81	3°1/25.2	18		237322	2009 <i>BV</i> ₈₅		8 27.0 76°96	1°2/28.1	16	
7 20	22 50.38	-15 5.3	1.247	2.120	18.4	20.8	7 20	22 48.15	- 4 48.8	1.893	2.715	15.1	21.0
7 30	22 47.08	-15 24.9	1.169	2.105	14.4	20.5	7 30	22 43.90	- 4 58.9	1.825	2.729	11.9	20.8
8 9	22 40.62	-15 53.7	1.110	2.090	9.7	20.2	8 9	22 37.64	- 5 22.3	1.779	2.743	8.2	20.6
8 19	22 31.55	-16 25.4	1.072	2.076	4.8	19.8	8 19	22 29.93	- 5 56.5	1.757	2.756	4.1	20.4
8 29	22 21.06	-16 52.1	1.057	2.063	3.8	19.7	8 29	22 21.56	- 6 36.9	1.761	2.770	1.3	20.2
9 8	22 10.73	-17 6.0	1.067	2.049	8.6	20.0	9 8	22 13.50	- 7 18.6	1.794	2.784	4.8	20.5
9 18	22 2.12	-17 2.8	1.099	2.037	13.8	20.2	9 18	22 6.58	- 7 56.5	1.852	2.797	8.6	20.8
9 28	21 56.42	-16 40.8	1.150	2.025	18.4	20.5	9 28	22 1.53	- 8 26.6	1.936	2.811	12.0	21.0
114612	2003 <i>DV</i> ₁₂		8 26.9 339°33	0°4/27.4	18		371954	2008 <i>FY</i> ₃₇		8 27.0 267°20	0°4/27.4	18	
7 20	22 42.81	- 4 50.4	1.899	2.732	14.7	19.8	7 20	22 47.57	- 5 20.6	1.650	2.485	16.5	21.5
7 30	22 39.15	- 5 35.9	1.816	2.728	11.5	19.6	7 30	22 44.19	- 5 55.7	1.554	2.466	13.1	21.3
8 9	22 35.95	- 6 37.5	1.755	2.724	7.8	19.4	8 9	22 38.34	- 6 49.1	1.478	2.447	8.9	21.0
8 19	22 28.84	- 7 51.6	1.718	2.721	3.7	19.1	8 19	22 30.46	- 7 57.6	1.425	2.427	4.2	20.7
8 29	22 21.77	- 9 12.1	1.708	2.718	0.8	18.9	8 29	22 21.39	- 9 14.9	1.398	2.407	0.9	20.4
9 8	22 14.82	-10 31.8	1.726	2.715	5.0	19.2	9 8	22 12.26	-10 33.0	1.398	2.387	6.0	20.7
9 18	22 8.87	-11 44.1	1.770	2.713	9.1	19.4	9 18	22 4.25	-11 43.7	1.423	2.366	10.8	20.9
9 28	22 4.65	-12 43.6	1.837	2.710	12.7	19.6	9 28	21 58.38	-12 40.6	1.471	2.345	15.2	21.1
432858	2011 <i>HB</i> ₇₇		8 27.0 13°66	3°3/30.0	16		182273	2001 <i>KA</i>		8 27.0 79°69	1°1/26.1	17	
7 20	22 40.07	+ 2 28.5	1.337	2.170	19.7	20.1	7 20	22 47.17	- 8 11.6	1.488	2.339	17.1	20.1
7 30	22 38.50	+ 1 53.0	1.269	2.174	15.9	19.9	7 30	22 43.78	- 9 8.6	1.423	2.346	13.2	19.9
8 9	22 34.51	+ 0 49.2	1.219	2.179	11.6	19.6	8 9	22 37.91	-10 22.0	1.378	2.354	8.7	19.6
8 19	22 28.63	+ 0 40.2	1.191	2.184	6.8	19.4	8 19	22 30.15	-11 45.6	1.356	2.361	3.8	19.4
8 29	22 21.84	+ 2 28.1	1.186	2.191	3.3	19.2	8 29	22 21.50	-13 10.8	1.361	2.369	1.9	19.3
9 8	22 15.31	- 4 23.3	1.205	2.199	5.9	19.4	9 8	22 13.17	-14 28.3	1.391	2.376	6.6	19.6
9 18	22 10.15	- 6 14.3	1.249	2.208	10.4	19.7	9 18	22 6.25	-15 31.2	1.446	2.384	11.2	19.9
9 28	22 7.22	- 7 51.2	1.316	2.217	14.7	19.9	9 28	22 1.62	-16 15.0	1.524	2.391	15.1	20.1
326882	2003 <i>UP</i> ₃₇₄		8 27.0 286°61	3°7/31.1	18		451220	2010 <i>AP</i> ₈₈		8 27.0 318°48	1°6/28.2	15	
7 20	22 42.98	+ 4 0.0	2.387	3.165	13.7	21.3	7 20	22 46.67	- 5 35.0	1.976	2.802	14.5	21.6
7 30	22 39.71	+ 3 54.7	2.289	3.156	11.3	21.1	7 30	22 43.00	- 5 20.3	1.877	2.782	11.6	21.4
8 9	22 34.81	+ 3 33.0	2.212	3.147	8.5	20.9	8 9	22 37.26	- 5 16.6	1.798	2.762	8.1	21.1
8 19	22 28.66	+ 2 55.2	2.159	3.138	5.7	20.7	8 19	22 29.87	- 5 22.4	1.743	2.742	4.3	20.9
8 29	22 21.84	+ 2 3.7	2.133	3.128	3.7	20.6	8 29	22 21.56	- 5 35.4	1.715	2.723	1.6	20.7
9 8	22 15.07	+ 1 2.7	2.134	3.119	4.7	20.6	9 8	22 13.25	- 5 51.7	1.714	2.704	4.9	20.8
9 18	22 9.05	+ 0 2.8	2.162	3.110	7.4	20.8	9 18	22 5.88	- 6 7.4	1.739	2.686	8.9	21.0
9 28	22 4.42	- 1 7.3	2.217	3.101	10.3	20.9	9 28	22 0.28	- 6 18.7	1.788	2.668	12.6	21.2
273695	2007 <i>EO</i> ₃₉		8 27.0 66°28	7°8/21.9	17		58988	1998 <i>RD</i> ₇₅		8 27.0 3°79	1°3/28.3	18	
7 20	22 57.05	-28 4.0	1.549	2.409	16.1	20.3	7 20	22 42.20	- 3 37.0	1.813	2.645	15.3	18.3
7 30	22 51.36	-28 53.0	1.501	2.421	12.9	20.2	7 30	22 39.54	- 3 59.7	1.736	2.645	12.1	18.1
8 9	22 42.81	-29 36.6	1.473	2.434	9.8	20.0	8 9	22 34.89	- 4 38.5	1.679	2.645	8.4	17.9
8 19	22 32.26	-30 5.9	1.469	2.447	7.9	19.9	8 19	22 28.75	- 5 30.5	1.647	2.646	4.3	17.7
8 29	22 20.99	-30 13.5	1.490	2.459	8.5	20.0	8 29	22 21.86	- 6 30.8	1.640	2.648	1.4	17.5
9 8	22 10.42	-29 55.9	1.535	2.472	10.9	20.2	9 8	22 15.16	- 7 33.1	1.659	2.651	4.9	17.7
9 18	22 1.75	-29 14.2	1.604	2.485	13.9	20.4	9 18	22 9.49	- 8 31.1	1.705	2.654	8.9	18.0
9 28	21 55.83	-28 11.9	1.693	2.498	16.7	20.6	9 28	22 5.61	- 9 19.6	1.774	2.658	12.5	18.2
156704	2002 <i>LQ</i> ₄₉		8 27.0 353°21	0°2/26.8	18		122006	2000 <i>FN</i> ₇₃		8 27.0 334°12	2°4/28.8	18	
7 20	22 42.17	- 7 30.9	1.880	2.723	14.4	19.5	7 20	22 40.05	- 2 14.9	1.168	2.029	20.2	19.8
7 30	22 39.47	- 8 7.1	1.800	2.719	11.2	19.2	7 30	22 39.08	- 2 23.5	1.087	2.011	16.3	19.5
8 9	22 34.83	- 8 56.7	1.743	2.716	7.5	19.0	8 9	22 35.31	- 2 57.0	1.023	1.994	11.6	19.2
8 19	22 28.71	- 9 55.7	1.709	2.713	3.4	18.8	8 19	22 29.19	- 3 53.9	0.978	1.979	6.3	18.8
8 29	22 21.84	-10 58.5	1.702	2.711	1.0	18.6	8 29	22 21.72	- 5 8.6	0.956	1.964	2.4	18.5
9 8	22 15.13	-11 58.7	1.722	2.710	5.2	18.9	9 8	22 14.30	- 6 31.3	0.956	1.951	6.7	18.8
9 18	22 9.42	-12 50.7	1.767	2.709	9.2	19.1	9 18	22 8.32	- 7 50.7	0.979	1.939	12.3	19.0
9 28	22 5.45	-13 30.1	1.836	2.708	12.7	19.3	9 28	22 4.99	- 8 57.1	1.021	1.929	17.3	19.3
391507	2007 <i>RP</i> ₁₃		8 27.0 339°07	1°6/27.9	18		228609	2002 <i>BW</i> ₁₈					

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
223911	2004 VR ₆₅		8 27.0 326°78	0°8/27.8	18		66584	1999 RM ₁₆₁		8 27.0 303°36	1°3/27.8	18	
7 20	22 43.07	- 5 7.9	2.016	2.846	14.1	20.1	7 20	22 53.25	- 7 57.0	1.671	2.502	16.4	18.6
7 30	22 40.09	- 5 33.0	1.927	2.836	11.1	19.9	7 30	22 48.47	- 7 26.1	1.580	2.490	13.1	18.3
8 9	22 35.24	- 6 11.9	1.860	2.827	7.6	19.6	8 9	22 41.12	- 7 4.4	1.511	2.478	9.0	18.1
8 19	22 28.93	- 7 2.1	1.817	2.819	3.7	19.4	8 19	22 31.73	- 6 50.6	1.465	2.466	4.5	17.8
8 29	22 21.86	- 7 58.9	1.801	2.810	0.9	19.2	8 29	22 21.23	- 6 42.1	1.445	2.454	1.4	17.5
9 8	22 14.88	- 8 56.6	1.812	2.802	4.7	19.4	9 8	22 10.82	- 6 35.6	1.453	2.443	5.7	17.8
9 18	22 8.82	- 9 49.7	1.850	2.795	8.6	19.7	9 18	22 1.70	- 6 27.8	1.486	2.432	10.3	18.0
9 28	22 4.40	-10 33.5	1.912	2.788	12.1	19.9	9 28	21 54.86	- 6 15.9	1.543	2.421	14.4	18.3
358871	2008 FG ₁₂₃		8 27.0 338°79	4°9/22.6	18		318230	2004 RO ₂₂₂		8 27.0 355°77	4°1/28.3	18	
7 20	22 47.81	-21 45.9	1.967	2.826	13.2	20.6	7 20	22 58.85	- 7 41.6	1.396	2.230	19.0	18.8
7 30	22 43.84	-22 33.6	1.895	2.822	10.3	20.4	7 30	22 53.22	- 5 48.8	1.314	2.221	15.3	18.6
8 9	22 37.74	-23 22.9	1.846	2.818	7.3	20.2	8 9	22 44.49	- 3 59.4	1.253	2.215	11.0	18.3
8 19	22 30.05	-24 7.6	1.822	2.814	5.1	20.1	8 19	22 33.31	- 2 16.0	1.215	2.210	6.5	18.0
8 29	22 21.59	-24 41.2	1.825	2.811	5.5	20.1	8 29	22 20.85	- 0 41.8	1.203	2.207	4.1	17.9
9 8	22 13.38	-24 59.0	1.853	2.808	8.1	20.2	9 8	22 8.66	+ 0 41.3	1.219	2.205	7.2	18.1
9 18	22 6.34	-24 58.7	1.906	2.805	11.2	20.4	9 18	21 58.19	+ 1 52.5	1.259	2.205	11.7	18.3
9 28	22 1.22	-24 40.3	1.982	2.802	14.0	20.6	9 28	21 50.57	+ 2 53.7	1.323	2.207	15.8	18.6
47238	1999 VB ₅₀		8 27.0 270°74	4°9/23.5	18		488125	2015 VC ₁₁₂		8 27.0 332°29	3°0/23.7	18	
7 20	22 52.00	-19 15.3	1.524	2.388	16.1	18.0	7 20	22 41.51	-13 24.8	1.874	2.735	13.7	20.5
7 30	22 47.79	-20 3.8	1.448	2.378	12.6	17.7	7 30	22 39.13	-14 43.6	1.792	2.723	10.5	20.3
8 9	22 40.79	-20 57.6	1.393	2.369	8.7	17.5	8 9	22 34.74	-16 13.9	1.733	2.712	6.9	20.1
8 19	22 31.57	-21 49.1	1.361	2.359	5.4	17.3	8 19	22 28.77	-17 49.3	1.698	2.701	3.7	19.9
8 29	22 21.20	-22 29.5	1.355	2.349	5.7	17.3	8 29	22 21.97	-19 21.5	1.691	2.691	3.8	19.8
9 8	22 11.06	-22 51.9	1.373	2.339	9.2	17.4	9 8	22 15.25	-20 42.5	1.711	2.681	7.2	20.0
9 18	22 2.44	-22 53.0	1.416	2.329	13.3	17.7	9 18	22 9.52	-21 46.4	1.755	2.672	10.9	20.2
9 28	21 56.38	-22 32.7	1.479	2.319	17.0	17.9	9 28	22 5.57	-22 29.5	1.822	2.664	14.2	20.4
263634	2008 GY ₆₀		8 27.0 131°48	1°1/26.1	17		349794	2009 BD ₇₄		8 27.0 283°64	1°5/28.1	18	
7 20	22 51.11	-10 10.0	1.747	2.586	15.5	21.7	7 20	22 51.96	- 6 10.7	1.895	2.715	15.2	21.2
7 30	22 46.44	-10 46.4	1.679	2.596	12.0	21.5	7 30	22 47.34	- 5 52.3	1.788	2.690	12.2	20.9
8 9	22 39.48	-11 34.1	1.633	2.606	7.9	21.3	8 9	22 40.35	- 5 44.4	1.702	2.665	8.5	20.7
8 19	22 30.83	-12 28.0	1.611	2.615	3.5	21.1	8 19	22 31.41	- 5 45.7	1.640	2.639	4.4	20.4
8 29	22 21.41	-13 21.9	1.616	2.624	1.8	21.0	8 29	22 21.31	- 5 53.8	1.605	2.614	1.6	20.1
9 8	22 12.30	-14 9.2	1.649	2.633	6.0	21.3	9 8	22 11.09	- 6 4.8	1.598	2.588	5.3	20.3
9 18	22 4.51	-14 45.2	1.708	2.641	10.1	21.5	9 18	22 1.87	- 6 14.9	1.618	2.562	9.7	20.5
9 28	21 58.83	-15 7.1	1.790	2.648	13.6	21.8	9 28	21 54.63	- 6 20.5	1.661	2.535	13.7	20.7
163958	2003 UY ₅₅		8 27.0 29°32	3°0/29.1	18		315819	2008 GV ₉₂		8 27.0 67°61	4°4/22.3	18	
7 20	22 50.86	- 2 54.9	1.687	2.506	16.9	19.6	7 20	22 46.00	-19 58.9	2.117	2.975	12.5	20.0
7 30	22 46.37	- 2 22.8	1.612	2.509	13.6	19.4	7 30	22 42.24	-21 8.6	2.055	2.981	9.6	19.9
8 9	22 39.53	- 2 4.5	1.556	2.513	9.7	19.2	8 9	22 36.58	-22 21.4	2.015	2.988	6.7	19.7
8 19	22 30.90	- 1 59.7	1.523	2.517	5.7	19.0	8 19	22 29.52	-23 30.9	2.002	2.995	4.6	19.6
8 29	22 21.40	- 2 6.0	1.516	2.521	3.0	18.8	8 29	22 21.81	-24 30.5	2.016	3.002	5.1	19.6
9 8	22 12.14	- 2 19.7	1.536	2.525	5.5	19.0	9 8	22 14.35	-25 15.0	2.056	3.009	7.6	19.8
9 18	22 4.18	- 2 36.2	1.581	2.530	9.5	19.2	9 18	22 7.94	-25 41.4	2.122	3.015	10.4	20.0
9 28	21 58.37	- 2 50.9	1.651	2.535	13.2	19.5	9 28	22 3.26	-25 49.1	2.211	3.022	13.0	20.2
236526	2006 HE ₁₁		8 27.0 188°51	7°5/19.6	18		286745	2002 GA ₁₄₉		8 27.0 141°96	1°4/28.3	17	
7 20	22 52.59	-29 39.1	2.074	2.924	13.0	21.2	7 20	22 49.14	- 2 31.8	1.625	2.448	17.2	21.4
7 30	22 47.56	-30 55.8	2.012	2.923	10.6	21.0	7 30	22 45.14	- 3 6.6	1.552	2.456	13.6	21.2
8 9	22 40.23	-32 8.6	1.973	2.923	8.5	20.9	8 9	22 38.77	- 4 0.9	1.499	2.463	9.4	21.0
8 19	22 31.18	-33 9.6	1.959	2.921	7.5	20.8	8 19	22 30.59	- 5 11.1	1.470	2.469	4.8	20.7
8 29	22 21.33	-33 51.4	1.971	2.920	8.3	20.9	8 29	22 21.54	- 6 30.8	1.467	2.475	1.5	20.5
9 8	22 11.78	-34 9.7	2.009	2.918	10.3	21.0	9 8	22 12.74	- 7 51.9	1.490	2.481	5.5	20.8
9 18	22 3.53	-34 3.4	2.070	2.915	12.7	21.2	9 18	22 5.24	- 9 6.5	1.540	2.486	9.9	21.1
9 28	21 57.39	-33 34.5	2.152	2.913	15.0	21.3	9 28	21 59.91	-10 8.5	1.614	2.491	13.9	21.3
346557	2008 UM ₃₄₆		8 27.0 287°32	0°6/27.5	18		364005	2005 UC ₄₆₀		8 27.0 305°03	3°9/30.9	18	
7 20	22 47.19	- 6 2.2	1.844	2.675	15.2	21.6	7 20	22 45.06	+ 2 55.2	2.167	2.953	14.6	21.4
7 30	22 43.69	- 6 20.7	1.739	2.648	12.1	21.3	7 30	22 41.50	+ 3 6.5	2.075	2.947	12.1	21.2
8 9	22 37.93	- 6 53.7	1.654	2.622	8.3	21.1	8 9	22 36.12	+ 3 1.7	2.004	2.941	9.1	21.0
8 19	22 30.29	- 7 39.0	1.593	2.595	4.0	20.7	8 19	22 29.35	+ 2 41.0	1.956	2.936	6.1	20.8
8 29	22 21.52	- 8 31.9	1.558	2.567	0.9	20.5	8 29	22 21.85	+ 2 6.1	1.934	2.930	4.0	20.6
9 8	22 12.64	- 9 26.3	1.550	2.540	5.5	20.7	9 8	22 14.41	+ 1 21.2	1.940	2.925	5.1	20.7
9 18	22 4.71	-10 16.1	1.569	2.512	10.0	20.9	9 18	22 7.85	+ 0 31.1	1.972	2.920	8.0	20.9
9 28	21 58.69	-10 55.8	1.611	2.485	14.1	21.1	9 28	22 2.85	- 0 18.9	2.029	2.914	11.1	21.0
42679	1998 HL ₁₃₈		8 27.0 75°38	2°6/24.9	18		380845	2006 BC ₃		8 27.0 162°65	3°5/30.4	18	
7 20	22 49.09	-11 25.1	1.382	2.243	17.6	19.4	7 20	22 49.60	+ 1 58.3	2.121	2.904	15.0	21.8
7 30	22 45.37	-12 32.4	1.328	2.258	13.5	19.2	7 30	22 44.95	+ 2 3.9	2.037	2.909	12.3	21.6
8 9	22 38.99	-13 53.2	1.295	2.274	8.8	18.9	8 9	22 38.38	+ 1 53.3	1.974	2.914	9.1	21.4
8 19	22 30.66	-15 19.3	1.285	2.290	4.1	18.7	8 19	22 30.36	+ 1 27.2	1.935	2.918	5.8	21.2
8 29	22 21.49	-16 41.0	1.300	2.305	3.3	18.7	8 29	22 21.61	+ 0 48.1	1.923	2.922	3.6	21.1
9 8	22 12.79	-17 49.1	1.341	2.321	7.7	19.0	9 8	22 13.01	+ 0 0.4	1.938	2.925	5.0	21.2
9 18	22 5.71	-18 37.9	1.406	2.336	12.1	19.3	9 18	22 5.41	- 0 50.7	1.982	2.927	8.1	21.4
9 28	22 1.10	-19 4.9	1.492	2.351	15.8	19.6	9 28	21 59.52	- 1 39.9	2.051	2.929	11.3	21.6
385592	2005 AX ₁₄		8 27.0 170°89	3°0/29.6	18		91715	1999 TA ₁₅₄		8 27.0 210°57	3°0/30.5	18	R
7 20	22 52.41	- 0											

EPHEMERIDES

8 27.0

8 27.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
208861	2002 <i>SH</i> ₃₂		8 27.0	16°05'	5°4'	1.7 18	380817	2005 <i>YM</i> ₁₂₆		8 27.1	209°47'	1°1'	26.2 15
7 20	22 43.28	+ 8 20.7	1.857	2.629	17.2	19.7	7 20	22 49.59	-10 38.2	1.806	2.648	15.0	22.3
7 30	22 40.40	+ 8 12.3	1.773	2.630	14.5	19.5	7 30	22 45.36	-11 5.2	1.728	2.646	11.6	22.1
8 9	22 35.52	+ 7 39.6	1.708	2.631	11.3	19.3	8 9	22 38.88	-11 42.6	1.670	2.644	7.7	21.9
8 19	22 29.11	+ 6 42.6	1.664	2.633	8.1	19.1	8 19	22 30.67	-12 26.2	1.637	2.641	3.4	21.6
8 29	22 21.92	+ 5 24.1	1.646	2.634	5.7	18.9	8 29	22 21.61	-13 10.3	1.631	2.639	1.7	21.5
9 8	22 14.86	+ 3 50.5	1.653	2.636	6.1	19.0	9 8	22 12.74	-13 49.1	1.652	2.636	5.9	21.8
9 18	22 8.82	+ 2 9.7	1.687	2.638	8.8	19.1	9 18	22 5.06	-14 17.9	1.699	2.634	10.0	22.0
9 28	22 4.57	+ 0 30.5	1.746	2.640	12.1	19.3	9 28	21 59.40	-14 33.7	1.769	2.631	13.6	22.2
362854	2012 <i>BJ</i> ₃₃		8 27.0	48°22'	5°9'	20.1 18	294838	2008 <i>CG</i> ₁₅₂		8 27.1	51°43'	2°1'	29.0 18
7 20	22 44.91	-23 24.9	2.089	2.952	12.4	19.9	7 20	22 45.91	- 2 4.0	1.896	2.713	15.3	20.7
7 30	22 41.52	-25 2.7	2.032	2.958	9.7	19.7	7 30	22 42.21	- 2 13.5	1.830	2.728	12.2	20.5
8 9	22 36.17	-26 41.7	1.999	2.965	7.2	19.6	8 9	22 36.58	- 2 38.5	1.785	2.744	8.6	20.3
8 19	22 29.36	-28 14.0	1.991	2.972	5.9	19.5	8 19	22 29.55	- 3 16.5	1.764	2.760	4.7	20.1
8 29	22 21.87	-29 31.9	2.011	2.979	6.7	19.6	8 29	22 21.90	- 4 3.6	1.769	2.776	2.1	20.0
9 8	22 14.60	-30 29.9	2.058	2.987	9.0	19.7	9 8	22 14.54	- 4 54.2	1.801	2.792	4.7	20.2
9 18	22 8.39	-31 5.0	2.128	2.994	11.6	19.9	9 18	22 8.28	- 5 43.0	1.860	2.809	8.3	20.5
9 28	22 3.96	-31 17.4	2.219	3.002	13.9	20.1	9 28	22 3.79	- 6 25.1	1.943	2.826	11.6	20.7
504352	2007 <i>TO</i> ₃₃₈		8 27.0	250°24'	1°3'	26.1 17	443043	2013 <i>ES</i> ₁₀₁		8 27.1	71°90'	1°8'	28.6 18
7 20	22 51.78	-10 49.7	1.584	2.430	16.5	22.7	7 20	22 48.18	- 4 4.2	2.129	2.942	14.0	20.6
7 30	22 47.55	-11 16.5	1.496	2.417	12.9	22.4	7 30	22 43.83	- 3 57.2	2.050	2.946	11.1	20.4
8 9	22 40.65	-11 55.5	1.428	2.403	8.6	22.2	8 9	22 37.62	- 4 1.9	1.993	2.951	7.8	20.2
8 19	22 31.58	-12 42.2	1.385	2.389	3.9	21.9	8 19	22 30.04	- 4 16.7	1.960	2.956	4.2	20.0
8 29	22 21.31	-13 30.0	1.367	2.375	2.0	21.7	8 29	22 21.79	- 4 38.8	1.954	2.961	1.8	19.8
9 8	22 11.09	-14 11.7	1.375	2.360	6.8	22.0	9 8	22 13.74	- 5 4.2	1.976	2.966	4.4	20.0
9 18	22 2.20	-14 41.6	1.409	2.345	11.6	22.2	9 18	22 6.67	- 5 29.1	2.026	2.971	8.0	20.3
9 28	21 55.68	-14 56.2	1.465	2.329	15.8	22.4	9 28	22 1.28	- 5 49.8	2.101	2.976	11.2	20.5
347011	2010 <i>DF</i> ₃₉		8 27.0	346°69'	2°6'	25.1 18	243867	2000 <i>WF</i> ₁₈₉		8 27.1	305°25'	4°2'	31.2 18
7 20	22 46.64	-13 46.8	1.485	2.351	16.4	20.5	7 20	22 44.70	+ 3 45.3	2.114	2.898	15.0	20.3
7 30	22 43.55	-14 21.9	1.413	2.345	12.7	20.3	7 30	22 41.30	+ 3 54.3	2.021	2.891	12.4	20.1
8 9	22 37.90	-15 6.9	1.361	2.341	8.4	20.0	8 9	22 36.06	+ 3 46.0	1.949	2.885	9.4	19.9
8 19	22 30.27	-15 55.9	1.332	2.337	4.1	19.7	8 19	22 29.38	+ 3 20.5	1.900	2.878	6.4	19.7
8 29	22 21.65	-16 41.3	1.329	2.333	3.3	19.7	8 29	22 21.94	+ 2 39.8	1.877	2.872	4.3	19.5
9 8	22 13.28	-17 16.3	1.350	2.331	7.4	19.9	9 8	22 14.57	+ 1 48.0	1.881	2.866	5.2	19.6
9 18	22 6.32	-17 35.8	1.395	2.329	11.8	20.2	9 18	22 8.08	+ 0 50.6	1.911	2.860	8.1	19.8
9 28	22 1.68	-17 37.8	1.461	2.327	15.7	20.4	9 28	22 3.19	- 0 6.7	1.967	2.854	11.3	19.9
127181	2002 <i>GQ</i> ₁₆₅		8 27.0	348°05'	0°8'	26.5 18	81116	2000 <i>EY</i> ₁₂₃		8 27.1	111°73'	0°8'	26.4 18
7 20	22 43.55	- 9 2.5	1.316	2.183	18.0	18.8	7 20	22 49.77	- 8 47.6	1.694	2.534	15.9	20.0
7 30	22 41.44	- 9 28.4	1.243	2.176	14.0	18.6	7 30	22 45.49	- 9 29.6	1.629	2.546	12.3	19.8
8 9	22 36.66	-10 10.1	1.189	2.169	9.4	18.3	8 9	22 38.93	-10 24.6	1.585	2.558	8.1	19.6
8 19	22 29.76	-11 3.0	1.157	2.163	4.2	18.0	8 19	22 30.67	-11 27.5	1.565	2.569	3.6	19.4
8 29	22 21.77	-11 59.5	1.149	2.158	1.6	17.8	8 29	22 21.66	-12 31.6	1.572	2.580	1.5	19.2
9 8	22 14.00	-12 51.3	1.165	2.154	6.9	18.1	9 8	22 12.96	-13 29.6	1.606	2.591	5.9	19.6
9 18	22 7.67	-13 31.3	1.204	2.151	11.9	18.4	9 18	22 5.59	-14 16.2	1.666	2.602	10.1	19.8
9 28	22 3.79	-13 54.7	1.263	2.150	16.3	18.6	9 28	22 0.32	-14 47.9	1.749	2.612	13.7	20.1
429472	2010 <i>XT</i> ₆₆		8 27.0	281°34'	4°5'	23.4 18	75867	2000 <i>CF</i> ₂₀		8 27.1	239°29'	0°1'	26.9 18
7 20	22 48.61	-15 58.8	1.517	2.382	16.1	21.2	7 20	22 46.63	- 6 35.0	2.366	3.185	12.6	20.7
7 30	22 45.40	-17 10.0	1.427	2.359	12.6	20.9	7 30	22 42.66	- 7 19.0	2.265	3.169	9.9	20.5
8 9	22 39.41	-18 33.4	1.357	2.336	8.6	20.6	8 9	22 36.91	- 8 15.7	2.187	3.153	6.7	20.3
8 19	22 31.11	-20 1.3	1.311	2.312	5.0	20.3	8 19	22 29.77	- 9 21.7	2.134	3.137	3.0	20.0
8 29	22 21.42	-21 23.3	1.291	2.288	5.4	20.3	8 29	22 21.86	-10 32.2	2.111	3.120	0.8	19.8
9 8	22 11.66	-22 29.6	1.296	2.264	9.3	20.5	9 8	22 13.94	-11 41.7	2.116	3.102	4.6	20.1
9 18	22 3.18	-23 13.3	1.324	2.240	13.8	20.7	9 18	22 6.79	-12 44.8	2.150	3.084	8.2	20.3
9 28	21 57.17	-23 31.4	1.373	2.215	17.9	20.8	9 28	22 1.12	-13 37.2	2.209	3.066	11.5	20.5
514362	2016 <i>QH</i> ₄₈		8 27.0	357°42'	4°8'	24.8 18	394584	2007 <i>VZ</i> ₁₁₂		8 27.1	248°92'	3°0'	24.2 18
7 20	22 53.02	-20 59.2	1.220	2.097	18.4	19.9	7 20	22 48.06	-15 56.3	2.049	2.898	13.2	21.3
7 30	22 49.03	-20 56.1	1.156	2.092	14.5	19.6	7 30	22 44.00	-16 42.3	1.967	2.891	10.2	21.1
8 9	22 41.79	-20 52.8	1.110	2.089	10.0	19.4	8 9	22 37.89	-17 34.7	1.908	2.883	6.8	20.9
8 19	22 32.07	-20 42.7	1.086	2.087	5.8	19.1	8 19	22 30.23	-18 28.2	1.875	2.876	3.7	20.7
8 29	22 21.24	-20 19.1	1.086	2.086	5.4	19.1	8 29	22 21.76	-19 16.7	1.868	2.868	3.6	20.7
9 8	22 10.94	-19 38.6	1.109	2.087	9.2	19.3	9 8	22 13.44	-19 54.7	1.890	2.860	6.7	20.9
9 18	22 2.64	-18 41.1	1.155	2.088	13.8	19.6	9 18	22 6.15	-20 18.5	1.937	2.852	10.1	21.1
9 28	21 57.36	-17 29.0	1.222	2.092	17.9	19.9	9 28	22 0.66	-20 26.3	2.007	2.844	13.2	21.3
91533	1999 <i>RY</i> ₁₉₉		8 27.0	131°23'	6°6'	1.7 18 R	288237	2003 <i>YN</i> ₈₂		8 27.1	260°80'	5°1'	22.9 18
7 20	22 50.62	+ 8 11.0	1.989	2.742	16.8	18.5	7 20	22 50.52	-18 44.6	1.579	2.443	15.7	20.8
7 30	22 45.93	+ 8 58.3	1.908	2.748	14.3	18.3	7 30	22 46.66	-19 52.2	1.500	2.430	12.2	20.5
8 9	22 39.14	+ 9 26.7	1.845	2.754	11.4	18.1	8 9	22 40.11	-21 7.1	1.442	2.418	8.5	20.3
8 19	22 30.75	+ 9 34.5	1.805	2.760	8.6	18.0	8 19	22 31.38	-22 21.3	1.408	2.405	5.5	20.1
8 29	22 21.55	+ 9 21.7	1.790	2.765	6.8	17.9	8 29	22 21.48	-23 25.0	1.399	2.391	6.0	20.1
9 8	22 12.50	+ 8 51.2	1.802	2.771	7.1	17.9	9 8	22 11.70	-24 10.3	1.416	2.378	9.4	20.3
9 18	22 4.51	+ 8 8.0	1.839	2.776	9.3	18.1	9 18	22 3.31	-24 32.5	1.457	2.364	13.4	20.5
9 28	21 58.39	+ 7 18.4	1.902	2.780	12.0	18.2	9 28	21 57.35	-24 30.7	1.518	2.350	17.0	20.7
174080	2002 <i>GY</i> ₃₆		8 27.0	44°76'	5°1'	22.5 18	74473	1999 <i>CY</i> _{55</}					

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8 27.1

8 27.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
266710	2009 <i>QH</i> ₃₇		8 27.1 205°82	0°5/26.4	18		375671	2009 <i>FE</i> ₅₄		8 27.1 21°03	6°2/23.3	17	
7 20	22 44.32	- 8 31.8	2.780	3.602	10.9	21.8	7 20	22 43.03	-17 33.1	0.843	1.754	21.4	19.5
7 30	22 40.52	- 9 15.3	2.690	3.597	8.4	21.6	7 30	22 41.97	-18 42.4	0.810	1.766	16.4	19.3
8 9	22 35.28	-10 7.9	2.624	3.593	5.6	21.4	8 9	22 37.37	-19 59.9	0.792	1.780	11.1	19.0
8 19	22 28.96	-11 6.3	2.585	3.588	2.5	21.2	8 19	22 30.15	-21 13.0	0.793	1.796	6.8	18.9
8 29	22 22.09	-12 6.5	2.574	3.583	1.0	21.1	8 29	22 21.93	-22 8.6	0.815	1.813	7.2	19.0
9 8	22 15.30	-13 4.0	2.594	3.578	4.1	21.3	9 8	22 14.52	-22 37.4	0.857	1.833	11.4	19.3
9 18	22 9.19	-13 55.0	2.641	3.572	7.1	21.5	9 18	22 9.36	-22 36.7	0.917	1.854	16.1	19.6
9 28	22 4.30	-14 36.4	2.715	3.566	9.8	21.7	9 28	22 7.37	-22 8.3	0.995	1.876	20.1	20.0
514615	2003 <i>XJ</i> ₂₁		8 27.1 335°47	8°6/20.6	18		195088	2002 <i>CW</i> ₁₁₂		8 27.1 190°04	1°1/26.1	18	
7 20	22 39.67	-23 0.3	1.102	2.007	17.9	19.3	7 20	22 49.52	-10 33.4	1.895	2.733	14.5	20.6
7 30	22 39.42	-24 16.1	1.020	1.971	14.4	18.9	7 30	22 45.22	-11 4.4	1.816	2.733	11.2	20.4
8 9	22 35.99	-25 39.1	0.956	1.936	10.8	18.6	8 9	22 38.77	-11 45.8	1.759	2.732	7.5	20.1
8 19	22 29.77	-26 58.1	0.911	1.904	8.7	18.4	8 19	22 30.68	-12 33.1	1.727	2.731	3.3	19.9
8 29	22 21.85	-27 58.9	0.888	1.873	10.0	18.3	8 29	22 21.78	-13 20.9	1.722	2.730	1.7	19.8
9 8	22 13.85	-28 29.6	0.884	1.844	13.9	18.5	9 8	22 13.06	-14 3.2	1.744	2.728	5.7	20.0
9 18	22 7.50	-28 23.7	0.899	1.817	18.4	18.6	9 18	22 5.48	-14 35.6	1.793	2.726	9.7	20.3
9 28	22 4.25	-27 40.8	0.930	1.793	22.8	18.8	9 28	21 59.82	-14 55.0	1.866	2.724	13.2	20.5
207483	2006 <i>HD</i> ₄₁		8 27.1 293°31	3°0/24.1	18		362825	2012 <i>AQ</i> ₁		8 27.1 162°43	3°2/23.3	18	
7 20	22 44.68	-12 45.2	1.735	2.593	14.8	20.2	7 20	22 46.63	-18 11.5	2.572	3.416	11.0	21.0
7 30	22 41.85	-14 1.4	1.648	2.577	11.4	19.9	7 30	22 42.43	-19 5.0	2.499	3.419	8.4	20.8
8 9	22 36.76	-15 30.9	1.583	2.562	7.6	19.7	8 9	22 36.62	-20 2.0	2.450	3.422	5.7	20.7
8 19	22 29.83	-17 7.4	1.543	2.546	3.9	19.4	8 19	22 29.62	-20 57.7	2.428	3.425	3.5	20.5
8 29	22 21.88	-18 41.8	1.529	2.530	3.8	19.4	8 29	22 22.06	-21 47.1	2.435	3.428	3.7	20.6
9 8	22 13.96	-20 5.2	1.542	2.515	7.6	19.6	9 8	22 14.67	-22 25.9	2.470	3.430	6.0	20.7
9 18	22 7.12	-21 10.7	1.579	2.500	11.7	19.8	9 18	22 8.11	-22 51.5	2.532	3.432	8.7	20.9
9 28	22 2.28	-21 54.3	1.639	2.484	15.3	20.0	9 28	22 2.99	-23 2.7	2.618	3.434	11.1	21.1
476705	2008 <i>TO</i> ₁₅₂		8 27.1 301°76	5°1/23.2	18		302127	2001 <i>QQ</i> ₁₈₃		8 27.1 6°96	1°1/26.1	18	
7 20	22 49.95	-19 39.5	1.573	2.439	15.6	22.3	7 20	22 46.98	-10 57.0	1.831	2.677	14.6	20.6
7 30	22 46.42	-20 27.5	1.480	2.411	12.3	22.0	7 30	22 43.30	-11 23.3	1.756	2.677	11.3	20.4
8 9	22 40.11	-21 21.5	1.408	2.384	8.6	21.7	8 9	22 37.50	-11 59.4	1.703	2.678	7.5	20.1
8 19	22 31.47	-22 14.2	1.359	2.356	5.6	21.5	8 19	22 30.11	-12 41.2	1.674	2.678	3.3	19.9
8 29	22 21.47	-22 56.8	1.335	2.329	5.9	21.4	8 29	22 21.94	-13 23.2	1.672	2.680	1.7	19.8
9 8	22 11.43	-23 21.7	1.336	2.301	9.5	21.6	9 8	22 13.99	-13 59.8	1.696	2.681	5.7	20.0
9 18	22 2.68	-23 24.5	1.361	2.274	13.7	21.7	9 18	22 7.17	-14 26.6	1.746	2.682	9.7	20.3
9 28	21 56.40	-23 4.2	1.406	2.247	17.6	21.9	9 28	22 2.27	-14 40.7	1.820	2.684	13.2	20.5
212891	2007 <i>VW</i> ₂₉₀		8 27.1 258°55	1°8/25.3	18		510522	2012 <i>CQ</i> ₂		8 27.1 237°22	1°2/25.7	18	
7 20	22 47.55	-12 38.8	2.138	2.978	13.0	21.0	7 20	22 44.23	-10 13.9	2.355	3.190	12.1	21.3
7 30	22 43.58	-13 19.0	2.045	2.964	10.1	20.8	7 30	22 40.74	-11 3.8	2.272	3.188	9.3	21.1
8 9	22 37.64	-14 8.0	1.975	2.949	6.7	20.5	8 9	22 35.59	-12 3.4	2.212	3.185	6.1	20.9
8 19	22 30.16	-15 1.4	1.930	2.934	3.1	20.3	8 19	22 29.19	-13 8.5	2.178	3.183	2.7	20.7
8 29	22 21.84	-15 53.7	1.913	2.919	2.4	20.2	8 29	22 22.16	-14 13.9	2.173	3.180	1.7	20.6
9 8	22 13.57	-16 39.2	1.925	2.903	5.8	20.4	9 8	22 15.24	-15 14.4	2.196	3.177	5.0	20.8
9 18	22 6.21	-17 13.7	1.962	2.887	9.5	20.6	9 18	22 9.14	-16 5.3	2.246	3.174	8.3	21.0
9 28	22 0.55	-17 34.4	2.024	2.871	12.7	20.8	9 28	22 4.48	-16 43.6	2.322	3.172	11.2	21.2
307148	2002 <i>CN</i> ₂₅₁		8 27.1 145°43	2°8/23.7	18		514973	2009 <i>CH</i> ₆₀		8 27.1 307°57	0°8/26.4	18	
7 20	22 46.82	-16 58.7	2.604	3.445	10.9	21.2	7 20	22 45.71	- 8 53.2	1.803	2.646	14.9	21.5
7 30	22 42.50	-17 53.3	2.534	3.453	8.4	21.1	7 30	22 42.44	- 9 31.5	1.720	2.640	11.6	21.3
8 9	22 36.61	-18 52.0	2.488	3.461	5.6	20.9	8 9	22 37.02	-10 22.9	1.659	2.633	7.7	21.1
8 19	22 29.57	-19 50.1	2.470	3.468	3.2	20.8	8 19	22 29.94	-11 23.0	1.623	2.627	3.4	20.8
8 29	22 22.00	-20 42.7	2.480	3.475	3.3	20.8	8 29	22 21.99	-12 25.7	1.613	2.621	1.4	20.6
9 8	22 14.61	-21 25.4	2.519	3.482	5.7	21.0	9 8	22 14.16	-13 24.1	1.629	2.615	5.7	20.9
9 18	22 8.06	-21 55.5	2.585	3.488	8.4	21.2	9 18	22 7.42	-14 12.6	1.672	2.610	9.9	21.1
9 28	22 2.93	-22 11.7	2.675	3.494	10.8	21.3	9 28	22 2.59	-14 47.0	1.738	2.604	13.6	21.4
273816	2007 <i>FA</i> ₃₉		8 27.1 78°26	6°8/22.7	17		253445	2003 <i>RQ</i> ₆		8 27.1 342°53	6°5/23.1	18	
7 20	22 58.22	-26 22.0	1.638	2.492	15.7	20.1	7 20	22 39.62	-18 21.4	0.899	1.811	20.2	19.5
7 30	22 52.15	-26 59.9	1.586	2.505	12.4	19.9	7 30	22 39.67	-19 17.1	0.835	1.793	15.8	19.1
8 9	22 43.36	-27 33.6	1.555	2.519	9.2	19.8	8 9	22 36.25	-20 23.4	0.788	1.776	11.0	18.8
8 19	22 32.67	-27 55.5	1.549	2.532	7.0	19.7	8 19	22 29.91	-21 29.8	0.759	1.761	7.0	18.5
8 29	22 21.29	-27 58.8	1.568	2.545	7.3	19.7	8 29	22 21.98	-22 22.6	0.750	1.748	7.6	18.5
9 8	22 10.57	-27 40.3	1.613	2.558	9.8	19.9	9 8	22 14.28	-22 50.1	0.760	1.738	12.1	18.7
9 18	22 1.67	-27 0.5	1.682	2.572	12.9	20.1	9 18	22 8.58	-22 46.3	0.788	1.729	17.4	19.0
9 28	21 55.37	-26 2.4	1.773	2.585	15.8	20.4	9 28	22 6.20	-22 10.8	0.832	1.723	22.1	19.2
375665	2009 <i>DS</i> ₁₄₁		8 27.1 160°78	0°2/27.5	18		164003	2003 <i>UE</i> ₁₇₄		8 27.1 11°75	0°9/26.5	18	
7 20	22 41.94	- 6 55.5	3.704	4.512	8.7	22.2	7 20	22 45.57	-10 25.5	1.257	2.128	18.4	19.2
7 30	22 38.27	- 7 18.4	3.618	4.516	6.7	22.1	7 30	22 43.00	-10 37.2	1.198	2.132	14.3	18.9
8 9	22 33.58	- 7 47.9	3.556	4.519	4.5	21.9	8 9	22 37.69	-11 1.9	1.157	2.136	9.5	18.7
8 19	22 28.14	- 8 22.0	3.522	4.523	2.1	21.8	8 19	22 30.29	-11 34.9	1.137	2.143	4.2	18.4
8 29	22 22.36	- 8 58.5	3.517	4.526	0.5	21.6	8 29	22 21.93	-12 9.4	1.141	2.150	1.6	18.3
9 8	22 16.65	- 9 34.5	3.542	4.529	2.9	21.8	9 8	22 13.98	-12 38.2	1.169	2.158	6.8	18.6
9 18	22 11.45	-10 7.7	3.596	4.532	5.2	22.0	9 18	22 7.64	-12 56.2	1.220	2.168	11.7	18.9
9 28	22 7.14	-10 35.9	3.678	4.535	7.3	22.1	9 28	22 3.84	-12 59.9	1.291	2.179	15.9	19.2
20212	Ekbaltooma		8 27.1 279°89	3°0/24.2	18		212876	2007 <i>VD</i> ₂₁₉		8 27.1 269°18			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
99524	2002 <i>EO</i> ₇₀		8 27.1	90°55'	2°5'/29.2	18	468435	2001 <i>UK</i> ₁₉₉		8 27.1	346°93'	13°3'/5.2	18
7 20	22 47.82	- 0 1.6	1.439	2.263	18.9	19.6	7 20	22 38.53	+12 58.9	1.097	1.901	24.8	20.1
7 30	22 44.42	- 0 31.6	1.372	2.274	15.2	19.4	7 30	22 38.19	+14 45.1	1.023	1.886	22.2	19.9
8 9	22 38.48	- 1 25.2	1.324	2.284	10.8	19.2	8 9	22 34.98	+16 1.6	0.962	1.872	19.2	19.7
8 19	22 30.63	- 2 39.2	1.298	2.294	6.0	18.9	8 19	22 29.30	+16 40.3	0.917	1.860	16.1	19.4
8 29	22 21.85	- 4 7.0	1.297	2.304	2.5	18.7	8 29	22 22.16	+16 35.5	0.889	1.851	13.9	19.3
9 8	22 13.39	- 5 39.0	1.321	2.313	5.7	19.0	9 8	22 15.00	+15 48.3	0.880	1.843	13.4	19.2
9 18	22 6.37	- 7 6.0	1.371	2.323	10.3	19.3	9 18	22 9.34	+14 26.6	0.890	1.837	15.0	19.3
9 28	22 1.67	- 8 20.1	1.444	2.333	14.5	19.6	9 28	22 6.48	+12 43.9	0.918	1.834	18.0	19.5
255410	2005 <i>XF</i> ₉		8 27.1	92°35'	2°8'/30.1	18	182860	2002 <i>CB</i> ₁₅₀		8 27.1	59°14'	0°7'/26.5	18
7 20	22 47.64	+ 0 27.0	2.420	3.205	13.3	20.3	7 20	22 50.27	-11 35.2	2.034	2.870	13.8	20.0
7 30	22 43.15	+ 0 33.8	2.347	3.222	10.7	20.2	7 30	22 45.49	-11 39.7	1.967	2.881	10.6	19.8
8 9	22 37.06	+ 0 27.4	2.296	3.239	7.8	20.0	8 9	22 38.77	-11 51.1	1.921	2.893	7.0	19.6
8 19	22 29.81	+ 0 9.0	2.269	3.255	4.8	19.9	8 19	22 30.64	-12 6.4	1.901	2.905	3.1	19.4
8 29	22 22.06	- 0 19.2	2.271	3.271	2.9	19.8	8 29	22 21.91	-12 21.6	1.908	2.917	1.3	19.3
9 8	22 14.52	- 0 53.5	2.301	3.288	4.2	19.9	9 8	22 13.49	-12 32.8	1.944	2.929	5.0	19.6
9 18	22 7.87	- 1 30.0	2.358	3.303	7.0	20.1	9 18	22 6.21	-12 37.3	2.006	2.941	8.7	19.8
9 28	22 2.68	- 2 4.6	2.442	3.319	9.8	20.3	9 28	22 0.74	-12 33.2	2.092	2.954	11.8	20.1
322586	2012 <i>BA</i> ₁₂		8 27.1	259°33'	5°1'/20.9	18	301975	2000 <i>HL</i>		8 27.1	244°80'	4°1'/23.8	18
7 20	22 45.27	-21 36.0	2.268	3.125	11.8	20.5	7 20	22 52.71	-20 30.0	2.038	2.886	13.3	20.9
7 30	22 41.78	-23 6.2	2.193	3.119	9.2	20.3	7 30	22 47.64	-21 0.5	1.959	2.879	10.3	20.7
8 9	22 36.42	-24 39.9	2.143	3.112	6.6	20.1	8 9	22 40.38	-21 32.6	1.901	2.872	7.2	20.5
8 19	22 29.63	-26 10.2	2.119	3.105	5.1	20.0	8 19	22 31.45	-22 1.0	1.870	2.865	4.5	20.3
8 29	22 22.09	-27 29.8	2.123	3.098	5.9	20.1	8 29	22 21.71	-22 20.1	1.865	2.858	4.6	20.3
9 8	22 14.64	-28 32.7	2.154	3.091	8.2	20.2	9 8	22 12.19	-22 25.5	1.888	2.851	7.4	20.5
9 18	22 8.10	-29 15.5	2.210	3.084	10.9	20.3	9 18	22 3.85	-22 15.3	1.937	2.843	10.6	20.7
9 28	22 3.18	-29 37.0	2.288	3.077	13.4	20.5	9 28	21 57.49	-21 49.5	2.010	2.836	13.6	20.9
42953	1999 <i>TK</i> ₁₀₉		8 27.1	180°96'	2°6'/29.0	18	428550	2008 <i>CP</i> ₆₄		8 27.1	215°02'	1°3'/28.2	17
7 20	22 51.70	- 2 21.1	1.665	2.481	17.2	18.8	7 20	22 50.99	- 4 5.1	1.892	2.707	15.4	22.5
7 30	22 47.21	- 2 13.0	1.585	2.482	13.8	18.6	7 30	22 46.48	- 4 21.3	1.801	2.700	12.3	22.3
8 9	22 40.28	- 2 21.3	1.525	2.482	9.8	18.3	8 9	22 39.74	- 4 52.6	1.730	2.692	8.6	22.0
8 19	22 31.45	- 2 44.5	1.487	2.482	5.5	18.1	8 19	22 31.22	- 5 36.6	1.684	2.683	4.4	21.8
8 29	22 21.66	- 3 19.3	1.476	2.482	2.6	17.9	8 29	22 21.75	- 6 29.0	1.665	2.673	1.4	21.5
9 8	22 12.04	- 4 0.0	1.491	2.481	5.5	18.1	9 8	22 12.34	- 7 23.8	1.674	2.663	5.1	21.8
9 18	22 3.71	- 4 41.0	1.532	2.480	9.8	18.3	9 18	22 4.00	- 8 15.2	1.709	2.653	9.3	22.0
9 28	21 57.57	- 5 16.4	1.597	2.479	13.7	18.6	9 28	21 57.59	- 8 58.0	1.770	2.641	13.1	22.2
111861	2002 <i>EJ</i> ₈₃		8 27.1	123°31'	2°1'/28.6	17	461446	2002 <i>GU</i> ₂₆		8 27.1	68°06'	18°2'/15.6	17
7 20	22 50.66	- 2 52.0	1.515	2.341	18.1	20.2	7 20	23 11.86	-51 25.9	1.336	2.149	20.7	20.6
7 30	22 46.55	- 3 0.2	1.444	2.348	14.4	20.0	7 30	23 4.42	-53 20.4	1.333	2.174	19.2	20.6
8 9	22 39.89	- 3 26.7	1.392	2.354	10.1	19.7	8 9	22 52.17	-54 43.1	1.345	2.198	18.4	20.6
8 19	22 31.28	- 4 9.2	1.363	2.361	5.4	19.5	8 19	22 36.71	-55 21.3	1.375	2.222	18.2	20.7
8 29	22 21.72	- 5 2.6	1.359	2.366	2.1	19.3	8 29	22 20.60	-55 7.9	1.423	2.247	18.8	20.8
9 8	22 12.45	- 5 59.6	1.381	2.372	5.7	19.5	9 8	22 6.48	-54 5.3	1.487	2.271	19.8	20.9
9 18	22 4.60	- 6 53.4	1.428	2.378	10.3	19.8	9 18	21 56.11	-52 22.1	1.568	2.295	21.1	21.1
9 28	21 59.08	- 7 37.8	1.499	2.383	14.3	20.1	9 28	21 50.21	-50 9.5	1.662	2.319	22.2	21.3
311477	2005 <i>UQ</i> ₅₁₁		8 27.1	138°47'	6°1'/6.1	18	248309	2005 <i>ND</i> ₁₇		8 27.1	5°01'	0°8'/26.7	18
7 20	22 45.73	+18 22.7	3.432	4.079	12.0	21.7	7 20	22 54.40	-13 24.8	1.655	2.499	16.0	19.6
7 30	22 41.32	+18 39.8	3.345	4.095	10.6	21.6	7 30	22 49.25	-12 58.2	1.581	2.500	12.5	19.3
8 9	22 35.68	+18 40.6	3.278	4.109	9.1	21.5	8 9	22 41.58	-12 36.6	1.527	2.500	8.3	19.1
8 19	22 29.17	+18 24.2	3.233	4.123	7.6	21.4	8 19	22 32.02	-12 17.0	1.497	2.501	3.8	18.8
8 29	22 22.23	+17 50.9	3.213	4.137	6.4	21.3	8 29	22 21.59	-11 56.5	1.495	2.503	1.4	18.7
9 8	22 15.41	+17 2.7	3.221	4.149	6.1	21.3	9 8	22 11.52	-11 32.0	1.519	2.506	5.9	19.0
9 18	22 9.19	+16 2.8	3.256	4.162	6.8	21.4	9 18	22 2.90	-11 1.9	1.569	2.509	10.2	19.2
9 28	22 4.04	+14 55.6	3.318	4.173	8.0	21.5	9 28	21 56.60	-10 25.4	1.643	2.513	14.0	19.5
63094	2000 <i>WP</i> ₁₄₂		8 27.1	160°48'	0°5'/27.7	18	444713	2007 <i>EE</i> ₁₈₆		8 27.1	299°32'	4°0'/23.7	18
7 20	22 44.46	- 4 42.8	2.421	3.236	12.5	19.0	7 20	22 50.20	-20 30.5	2.097	2.947	12.8	20.8
7 30	22 40.83	- 5 23.0	2.338	3.239	9.8	18.8	7 30	22 45.69	-20 59.8	2.013	2.935	10.0	20.6
8 9	22 35.62	- 6 15.7	2.277	3.241	6.6	18.6	8 9	22 39.07	-21 30.8	1.952	2.924	6.9	20.4
8 19	22 29.21	- 7 17.8	2.242	3.243	3.2	18.4	8 19	22 30.87	-21 58.5	1.916	2.912	4.4	20.2
8 29	22 22.22	- 8 24.8	2.236	3.245	0.7	18.2	8 29	22 21.86	-22 17.4	1.908	2.901	4.5	20.2
9 8	22 15.35	- 9 31.6	2.258	3.247	4.1	18.5	9 8	22 13.01	-22 23.2	1.927	2.889	7.2	20.4
9 18	22 9.27	-10 33.2	2.308	3.248	7.4	18.7	9 18	22 5.25	-22 14.0	1.971	2.878	10.4	20.5
9 28	22 4.59	-11 25.7	2.384	3.250	10.4	18.9	9 28	21 59.35	-21 49.3	2.039	2.867	13.4	20.7
365723	2010 <i>VK</i> ₁₈₆		8 27.1	18°94'	2°5'/29.4	18	26864	1993 <i>FT</i> ₂₄		8 27.1	227°01'	3°2'/30.6	18
7 20	22 47.22	- 1 55.8	2.190	2.994	14.0	20.7	7 20	22 46.95	+ 3 15.3	2.385	3.159	13.8	19.5
7 30	22 43.13	- 1 44.1	2.106	2.995	11.2	20.5	7 30	22 42.93	+ 2 56.4	2.281	3.147	11.3	19.3
8 9	22 37.23	- 1 44.9	2.043	2.996	8.1	20.3	8 9	22 37.14	+ 2 20.4	2.197	3.134	8.5	19.1
8 19	22 29.97	- 1 57.4	2.005	2.997	4.7	20.1	8 19	22 29.98	+ 1 28.0	2.138	3.121	5.4	18.9
8 29	22 22.04	- 2 19.1	1.994	2.998	2.5	20.0	8 29	22 22.06	+ 0 22.1	2.107	3.106	3.2	18.7
9 8	22 14.25	- 2 46.3	2.010	2.999	4.5	20.1	9 8	22 14.12	- 0 52.6	2.104	3.092	4.5	18.8
9 18	22 7.38	- 3 15.0	2.054	3.001	7.8	20.3	9 18	22 6.95	- 2 10.2	2.130	3.076	7.6	18.9
9 28	22 2.10	- 3 41.3	2.123	3.003	10.9	20.5	9 28	22 1.23	- 3 24.9	2.183	3.060	10.8	19.1
158722	2003 <i>KC</i> ₁₈												

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
250965	2006 <i>EY</i> ₃₈		8 27.1 56°73	5°5/30.9	17		354446	2003 <i>YT</i> ₁₄₂		8 27.1 317°59	8°0/20.9	18	
7 20	22 51.05	+ 2 37.0	1.195	2.019	22.1	20.3	7 20	22 48.39	-24 52.7	1.456	2.333	16.0	20.2
7 30	22 47.24	+ 3 7.3	1.142	2.037	18.1	20.1	7 30	22 45.65	-26 2.0	1.365	2.298	12.9	19.9
8 9	22 40.50	+ 3 12.0	1.106	2.056	13.5	19.9	8 9	22 39.91	-27 14.7	1.294	2.264	9.9	19.7
8 19	22 31.58	+ 2 50.8	1.089	2.075	8.8	19.7	8 19	22 31.59	-28 21.0	1.245	2.230	8.0	19.5
8 29	22 21.72	+ 2 7.6	1.095	2.094	5.6	19.6	8 29	22 21.69	-29 9.6	1.220	2.196	9.0	19.4
9 8	22 12.39	+ 1 10.1	1.125	2.113	7.2	19.7	9 8	22 11.69	-29 31.5	1.217	2.163	12.3	19.5
9 18	22 4.89	+ 0 7.4	1.178	2.133	11.3	20.0	9 18	22 3.11	-29 22.4	1.236	2.131	16.2	19.7
9 28	22 0.14	- 0 51.5	1.252	2.153	15.4	20.3	9 28	21 57.23	-28 42.8	1.274	2.100	20.0	19.8
348047	2003 <i>UM</i> ₁₄₄		8 27.1 312°42	3°2/24.7	18		370535	2003 <i>SJ</i> ₃₇₂		8 27.1 192°30	1°8/28.6	17	
7 20	22 46.89	-14 55.9	1.573	2.437	15.7	20.5	7 20	22 49.50	- 2 29.5	1.650	2.471	17.1	22.4
7 30	22 43.89	-15 35.7	1.485	2.417	12.2	20.2	7 30	22 45.57	- 2 50.1	1.569	2.471	13.6	22.1
8 9	22 38.34	-16 25.1	1.418	2.397	8.2	19.9	8 9	22 39.25	- 3 29.4	1.508	2.469	9.6	21.9
8 19	22 30.71	-17 18.2	1.374	2.377	4.2	19.6	8 19	22 31.05	- 4 24.8	1.470	2.468	5.1	21.6
8 29	22 21.90	-18 7.5	1.355	2.357	3.8	19.6	8 29	22 21.87	- 5 31.0	1.458	2.466	1.8	21.4
9 8	22 13.13	-18 45.5	1.361	2.339	7.8	19.8	9 8	22 12.84	- 6 40.7	1.473	2.464	5.4	21.6
9 18	22 5.60	-19 6.8	1.391	2.320	12.2	20.0	9 18	22 5.05	- 7 46.5	1.513	2.461	9.9	21.9
9 28	22 0.34	-19 9.0	1.443	2.302	16.2	20.2	9 28	21 59.40	- 8 42.2	1.577	2.458	14.0	22.1
450301	2004 <i>QZ</i> ₁₇		8 27.1 337°13	8°4/ 1.5	17		63296	2001 <i>EK</i>		8 27.1 110°70	0°1/27.1	18	
7 20	22 42.41	+ 6 55.8	1.525	2.324	19.2	19.6	7 20	22 50.90	- 6 52.1	1.653	2.487	16.5	19.7
7 30	22 40.52	+ 8 8.9	1.426	2.296	16.6	19.4	7 30	22 46.44	- 7 28.7	1.590	2.502	12.8	19.5
8 9	22 36.20	+ 9 3.1	1.344	2.270	13.6	19.1	8 9	22 39.65	- 8 19.9	1.547	2.516	8.6	19.2
8 19	22 29.79	+ 9 34.1	1.282	2.244	10.6	18.9	8 19	22 31.14	- 9 21.1	1.528	2.531	3.9	19.0
8 29	22 22.10	+ 9 39.6	1.242	2.221	8.6	18.7	8 29	22 21.87	-10 25.8	1.535	2.545	0.9	18.8
9 8	22 14.24	+ 9 20.8	1.224	2.198	9.0	18.7	9 8	22 12.95	-11 26.5	1.570	2.558	5.6	19.2
9 18	22 7.42	+ 8 42.5	1.229	2.177	11.7	18.7	9 18	22 5.39	-12 17.5	1.631	2.571	9.9	19.5
9 28	22 2.77	+ 7 52.3	1.255	2.158	15.2	18.9	9 28	21 59.99	-12 54.6	1.715	2.583	13.6	19.7
169575	2002 <i>GQ</i> ₇		8 27.1 157°11	0°3/27.4	17		100712	1998 <i>BW</i> ₁₉		8 27.1 9°52	2°9/28.8	18	
7 20	22 49.73	- 5 35.8	1.592	2.426	17.0	20.4	7 20	22 47.72	- 4 16.8	1.080	1.942	21.5	19.5
7 30	22 45.77	- 6 11.9	1.518	2.430	13.3	20.2	7 30	22 45.16	- 3 47.8	1.019	1.942	17.2	19.2
8 9	22 39.36	- 7 5.1	1.465	2.434	9.0	20.0	8 9	22 39.45	- 3 38.3	0.974	1.945	12.2	18.9
8 19	22 31.07	- 8 11.2	1.434	2.437	4.2	19.7	8 19	22 31.25	- 3 47.2	0.948	1.948	6.7	18.6
8 29	22 21.84	- 9 23.5	1.430	2.440	0.9	19.5	8 29	22 21.84	- 4 10.3	0.944	1.952	2.9	18.4
9 8	22 12.85	-10 33.9	1.453	2.442	5.8	19.8	9 8	22 12.80	- 4 40.5	0.963	1.957	6.9	18.7
9 18	22 5.17	-11 35.4	1.501	2.444	10.4	20.1	9 18	22 5.61	- 5 10.4	1.004	1.964	12.2	19.0
9 28	21 59.72	-12 22.6	1.573	2.446	14.4	20.3	9 28	22 1.36	- 5 33.2	1.065	1.971	17.0	19.3
103658	2000 <i>CL</i> ₄₂		8 27.1 191°10	0°1/27.2	17		42526	1994 <i>PA</i> ₃₆		8 27.1 9°18	0°3/27.4	18	
7 20	22 49.65	- 6 50.8	1.803	2.633	15.5	20.5	7 20	22 45.76	- 6 28.1	1.565	2.410	16.7	18.5
7 30	22 45.47	- 7 21.8	1.722	2.632	12.1	20.3	7 30	22 42.73	- 6 52.9	1.492	2.411	13.1	18.2
8 9	22 39.05	- 8 7.0	1.662	2.631	8.2	20.1	8 9	22 37.35	- 7 33.3	1.440	2.412	8.9	18.0
8 19	22 30.91	- 9 2.6	1.626	2.629	3.8	19.8	8 19	22 30.17	- 8 25.7	1.410	2.414	4.2	17.7
8 29	22 21.88	-10 2.9	1.618	2.627	0.9	19.6	8 29	22 22.10	- 9 23.8	1.406	2.416	0.9	17.5
9 8	22 13.01	-11 1.1	1.637	2.625	5.4	19.9	9 8	22 14.26	-10 20.5	1.428	2.418	5.7	17.8
9 18	22 5.30	-11 51.5	1.682	2.622	9.7	20.2	9 18	22 7.69	-11 9.2	1.474	2.421	10.2	18.1
9 28	21 59.58	-12 29.5	1.751	2.619	13.4	20.4	9 28	22 3.24	-11 45.2	1.544	2.425	14.2	18.4
482124	2010 <i>OD</i> ₁₂₄		8 27.1 294°41	7°6/19.7	18		106876	2000 <i>YN</i> ₃₄		8 27.1 153°87	0°1/27.0	18	
7 20	22 51.82	-31 10.5	2.126	2.976	12.7	20.8	7 20	22 47.78	- 6 34.0	2.483	3.296	12.2	20.4
7 30	22 47.11	-32 9.7	2.052	2.962	10.5	20.6	7 30	22 43.32	- 7 20.6	2.404	3.305	9.5	20.2
8 9	22 40.12	-33 4.0	2.001	2.948	8.5	20.4	8 9	22 37.25	- 8 18.1	2.348	3.314	6.3	20.0
8 19	22 31.38	-33 46.1	1.974	2.934	7.6	20.4	8 19	22 29.99	- 9 23.2	2.320	3.322	2.9	19.8
8 29	22 21.78	-34 9.2	1.973	2.920	8.4	20.4	8 29	22 22.16	-10 31.0	2.320	3.330	0.7	19.7
9 8	22 12.40	-34 9.4	1.997	2.907	10.3	20.5	9 8	22 14.48	-11 36.3	2.351	3.336	4.2	20.0
9 18	22 4.26	-33 45.7	2.045	2.893	12.7	20.6	9 18	22 7.65	-12 34.6	2.409	3.343	7.5	20.2
9 28	21 58.19	-33 0.0	2.113	2.880	15.0	20.8	9 28	22 2.25	-13 22.6	2.494	3.348	10.4	20.4
360704	2004 <i>TX</i> ₃₈		8 27.1 28°79	4°3/24.7	17		18615	1998 <i>DJ</i> ₅		8 27.1 19°30	6°5/21.3	18	
7 20	22 50.68	-16 21.5	1.023	1.910	20.4	20.2	7 20	22 42.97	-18 9.9	1.269	2.157	17.2	16.3
7 30	22 47.56	-16 56.8	0.975	1.918	15.8	19.9	7 30	22 41.14	-20 6.1	1.219	2.163	13.2	16.1
8 9	22 41.01	-17 40.8	0.944	1.927	10.6	19.7	8 9	22 36.55	-22 11.0	1.189	2.169	9.2	15.9
8 19	22 31.89	-18 24.6	0.933	1.937	5.6	19.4	8 19	22 29.86	-24 12.5	1.182	2.177	6.6	15.8
8 29	22 21.68	-18 58.0	0.944	1.947	5.1	19.4	8 29	22 22.19	-25 57.4	1.199	2.186	7.6	15.8
9 8	22 12.15	-19 13.3	0.978	1.959	9.6	19.7	9 8	22 14.89	-27 15.2	1.240	2.195	11.1	16.1
9 18	22 4.79	-19 7.3	1.033	1.971	14.5	20.1	9 18	22 9.20	-28 1.2	1.302	2.206	14.9	16.3
9 28	22 0.62	-18 40.2	1.107	1.984	18.8	20.4	9 28	22 6.03	-28 15.4	1.383	2.217	18.3	16.6
476633	2008 <i>SQ</i> ₂₁₇		8 27.1 327°59	1°4/25.9	18		307073	2002 <i>AE</i> ₄₅		8 27.1 133°50	3°3/23.4	18	
7 20	22 46.41	-10 33.4	1.551	2.407	16.3	21.4	7 20	22 45.86	-16 27.0	2.241	3.091	12.2	20.6
7 30	22 43.36	-11 9.4	1.473	2.400	12.7	21.2	7 30	22 42.12	-17 34.4	2.170	3.094	9.3	20.5
8 9	22 37.86	-11 58.5	1.416	2.393	8.4	20.9	8 9	22 36.60	-18 47.6	2.123	3.098	6.2	20.3
8 19	22 30.43	-12 55.6	1.382	2.387	3.8	20.6	8 19	22 29.73	-20 1.1	2.102	3.101	3.7	20.1
8 29	22 22.00	-13 53.6	1.373	2.381	2.1	20.5	8 29	22 22.23	-21 8.3	2.109	3.104	3.9	20.1
9 8	22 13.73	-14 44.9	1.390	2.375	6.7	20.8	9 8	22 14.89	-22 3.9	2.144	3.107	6.6	20.3
9 18	22 6.74	-15 23.6	1.431	2.370	11.2	21.0	9 18	22 8.48	-22 44.2	2.205	3.110	9.6	20.5
9 28	22 1.97	-15 45.9	1.495	2.365	15.2	21.3	9 28	22 3.68	-23 7.4	2.290	3.113	12.3	20.7
192342	1995 <i>SP</i> ₁₄		8 27.1 1										

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8 27.1

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
317199	2002 AX ₇₂	8 27.1 146°40		0°6/26.7 17			198339	2004 UW ₅	8 27.1 263°18		0°6/26.6 18		
7 20	22 52.70	- 9 3.6	1.546	2.388	17.1	21.1	7 20	22 48.95	- 9 4.9	1.951	2.784	14.3	20.9
7 30	22 48.13	- 9 30.0	1.476	2.394	13.3	20.9	7 30	22 44.96	- 9 32.2	1.853	2.766	11.2	20.6
8 9	22 40.97	-10 9.8	1.427	2.399	8.9	20.7	8 9	22 38.79	-10 11.4	1.777	2.748	7.6	20.4
8 19	22 31.83	-10 58.1	1.400	2.404	4.0	20.4	8 19	22 30.88	-10 58.9	1.725	2.729	3.4	20.1
8 29	22 21.74	-11 48.6	1.400	2.409	1.4	20.2	8 29	22 21.97	-11 49.4	1.701	2.709	1.2	19.9
9 8	22 11.97	-12 33.9	1.427	2.414	6.3	20.6	9 8	22 13.05	-12 37.2	1.704	2.690	5.5	20.2
9 18	22 3.66	-13 8.8	1.479	2.418	10.9	20.8	9 18	22 5.10	-13 16.8	1.734	2.670	9.7	20.4
9 28	21 57.73	-13 29.6	1.553	2.421	14.8	21.1	9 28	21 59.00	-13 44.5	1.787	2.650	13.5	20.6
221482	2006 BT ₂₅₃	8 27.1 254°66		0°1/27.2 18			388647	2007 TB ₁₉₃	8 27.1 344°54		2°4/25.2 18		
7 20	22 45.61	- 7 53.0	2.448	3.271	12.1	21.0	7 20	22 46.45	-13 8.1	1.618	2.477	15.6	20.7
7 30	22 41.78	- 8 13.9	2.358	3.265	9.4	20.9	7 30	22 43.28	-13 49.3	1.544	2.473	12.0	20.4
8 9	22 36.31	- 8 44.3	2.291	3.259	6.3	20.7	8 9	22 37.75	-14 40.7	1.491	2.469	8.0	20.2
8 19	22 29.60	- 9 21.4	2.250	3.252	2.9	20.4	8 19	22 30.39	-15 36.6	1.461	2.465	3.8	19.9
8 29	22 22.26	-10 1.5	2.237	3.246	0.7	20.2	8 29	22 22.10	-16 29.8	1.457	2.462	3.0	19.9
9 8	22 15.01	-10 40.5	2.252	3.240	4.2	20.5	9 8	22 14.02	-17 13.3	1.480	2.460	7.0	20.1
9 18	22 8.55	-11 14.5	2.295	3.234	7.6	20.7	9 18	22 7.21	-17 42.3	1.526	2.458	11.2	20.4
9 28	22 3.50	-11 40.4	2.364	3.227	10.6	20.9	9 28	22 2.54	-17 54.0	1.595	2.456	14.9	20.6
498525	2008 EC ₁₃₁	8 27.1 137°78		2°9/24.7 17			134752	2000 BQ ₃₅	8 27.1 62°45		0°2/26.9 18 R		
7 20	22 53.37	-15 13.9	1.848	2.691	14.6	22.1	7 20	22 49.59	- 8 49.4	1.748	2.586	15.5	19.5
7 30	22 48.19	-16 0.8	1.783	2.703	11.2	21.9	7 30	22 45.27	- 9 5.6	1.687	2.602	12.0	19.3
8 9	22 40.75	-16 54.3	1.741	2.714	7.4	21.7	8 9	22 38.79	- 9 32.8	1.647	2.618	8.0	19.1
8 19	22 31.64	-17 48.5	1.724	2.725	3.9	21.5	8 19	22 30.75	-10 7.3	1.631	2.634	3.6	18.9
8 29	22 21.80	-18 36.7	1.734	2.735	3.5	21.5	8 29	22 22.05	-10 44.0	1.642	2.651	0.9	18.7
9 8	22 12.30	-19 13.1	1.772	2.745	6.8	21.7	9 8	22 13.71	-11 17.3	1.680	2.668	5.3	19.1
9 18	22 4.12	-19 34.4	1.836	2.753	10.5	22.0	9 18	22 6.67	-11 43.0	1.743	2.684	9.4	19.4
9 28	21 58.04	-19 39.3	1.923	2.761	13.7	22.2	9 28	22 1.64	-11 58.1	1.831	2.701	12.8	19.6
480529	2015 MN ₁₃	8 27.1 54°21		5°4/22.0 18			54811	2001 MJ ₂₆	8 27.1 327°85		5°4/30.9 18		
7 20	22 47.89	-21 9.6	1.785	2.649	14.1	20.5	7 20	22 44.08	+ 2 34.4	1.320	2.147	20.2	18.3
7 30	22 44.15	-22 24.3	1.728	2.657	11.0	20.3	7 30	22 42.05	+ 2 59.7	1.236	2.133	16.8	18.0
8 9	22 38.15	-23 41.7	1.692	2.665	7.8	20.1	8 9	22 37.32	+ 3 1.2	1.169	2.120	12.8	17.7
8 19	22 30.48	-24 54.0	1.682	2.672	5.6	20.0	8 19	22 30.35	+ 2 37.7	1.121	2.107	8.5	17.5
8 29	22 22.07	-25 53.1	1.697	2.681	6.2	20.1	8 29	22 22.10	+ 1 51.0	1.096	2.096	5.5	17.3
9 8	22 13.97	-26 33.1	1.739	2.689	8.9	20.2	9 8	22 13.85	+ 0 47.5	1.094	2.085	7.0	17.3
9 18	22 7.17	-26 51.3	1.804	2.697	12.0	20.5	9 18	22 6.95	- 0 24.1	1.116	2.074	11.3	17.5
9 28	22 2.43	-26 47.8	1.891	2.706	14.8	20.7	9 28	22 2.51	- 1 33.7	1.158	2.065	15.8	17.8
443022	2013 EK ₁₃	8 27.1 316°56		1°0/26.3 18			104364	2000 FK ₂₆	8 27.1 326°96		0°4/26.8 18		
7 20	22 46.83	-10 37.9	1.953	2.795	14.0	21.1	7 20	22 44.77	- 7 32.7	1.764	2.607	15.2	19.0
7 30	22 43.16	-11 3.0	1.871	2.789	10.9	20.9	7 30	22 41.80	- 8 12.2	1.682	2.601	11.9	18.7
8 9	22 37.45	-11 37.9	1.810	2.784	7.2	20.6	8 9	22 36.68	- 9 6.2	1.622	2.595	8.0	18.5
8 19	22 30.18	-12 18.7	1.774	2.778	3.2	20.4	8 19	22 29.89	-10 10.6	1.585	2.589	3.6	18.2
8 29	22 22.13	-13 0.2	1.765	2.773	1.5	20.2	8 29	22 22.23	-11 19.3	1.575	2.584	1.1	18.0
9 8	22 14.22	-13 37.3	1.784	2.769	5.5	20.5	9 8	22 14.70	-12 24.8	1.591	2.579	5.6	18.3
9 18	22 7.35	-14 5.5	1.828	2.764	9.3	20.7	9 18	22 8.26	-13 21.0	1.633	2.575	9.8	18.6
9 28	22 2.27	-14 21.8	1.896	2.759	12.8	20.9	9 28	22 3.71	-14 3.2	1.699	2.570	13.6	18.8
100671	1997 WN ₅₇	8 27.1 350°59		6°6/1.9 18			418238	2008 DR ₃₀	8 27.1 179°18		0°5/26.7 17		
7 20	22 30.60	+ 6 30.4	1.083	1.930	22.4	17.7	7 20	22 50.20	- 7 45.4	1.756	2.589	15.7	22.4
7 30	22 31.84	+ 6 39.7	1.005	1.912	19.0	17.4	7 30	22 45.97	- 8 26.3	1.678	2.591	12.2	22.2
8 9	22 30.59	+ 6 13.9	0.943	1.896	14.9	17.1	8 9	22 39.45	- 9 21.4	1.621	2.591	8.2	22.0
8 19	22 27.27	+ 5 10.4	0.898	1.882	10.5	16.8	8 19	22 31.15	-10 26.2	1.588	2.592	3.7	21.7
8 29	22 22.79	+ 3 32.2	0.873	1.871	7.0	16.6	8 29	22 21.96	-11 34.3	1.583	2.592	1.2	21.5
9 8	22 18.40	+ 1 29.3	0.869	1.862	7.5	16.6	9 8	22 12.95	-12 38.3	1.605	2.591	5.8	21.9
9 18	22 15.38	- 0 43.8	0.886	1.857	11.6	16.8	9 18	22 5.14	-13 32.2	1.653	2.590	10.1	22.1
9 28	22 14.83	- 2 51.0	0.923	1.854	16.3	17.0	9 28	21 59.40	-14 11.6	1.725	2.588	13.8	22.3
185555	2008 AP ₈	8 27.1 185°80		0°5/27.6 17			251397	2007 XP ₂₂	8 27.1 300°71		6°6/22.0 18		
7 20	22 51.60	- 6 12.2	1.840	2.662	15.5	21.6	7 20	22 47.41	-19 6.6	1.286	2.167	17.4	20.3
7 30	22 46.95	- 6 32.8	1.758	2.663	12.2	21.4	7 30	22 45.07	-20 31.8	1.204	2.143	13.7	20.0
8 9	22 40.04	- 7 7.1	1.696	2.662	8.3	21.2	8 9	22 39.63	-22 8.6	1.141	2.120	9.7	19.8
8 19	22 31.39	- 7 52.0	1.660	2.661	4.0	20.9	8 19	22 31.53	-23 46.5	1.101	2.097	6.8	19.5
8 29	22 21.85	- 8 42.3	1.650	2.660	0.8	20.7	8 29	22 21.84	-25 12.5	1.084	2.074	7.7	19.5
9 8	22 12.48	- 9 32.1	1.669	2.658	5.2	21.0	9 8	22 12.10	-26 14.8	1.090	2.051	11.7	19.7
9 18	22 4.27	-10 15.9	1.714	2.655	9.5	21.2	9 18	22 3.89	-26 46.7	1.118	2.028	16.2	19.9
9 28	21 58.07	-10 49.4	1.783	2.651	13.2	21.4	9 28	21 58.53	-26 46.4	1.164	2.006	20.4	20.1
523720	2014 LN ₂₈	8 27.1 355°11		0°4/29.5 18			347966	2003 RG ₂₄	8 27.1 304°74		1°1/27.9 18		
7 20	22 29.05	- 2 58.2	15.896	16.679	2.3	20.7	7 20	22 48.71	- 6 36.2	1.644	2.481	16.4	20.8
7 30	22 27.86	- 3 4.3	15.795	16.672	1.8	20.6	7 30	22 45.35	- 6 30.3	1.537	2.450	13.2	20.5
8 9	22 26.48	- 3 12.1	15.718	16.666	1.3	20.6	8 9	22 39.43	- 6 37.6	1.451	2.419	9.2	20.2
8 19	22 24.96	- 3 21.4	15.668	16.659	0.7	20.5	8 19	22 31.33	- 6 56.3	1.387	2.389	4.6	19.9
8 29	22 23.37	- 3 31.7	15.648	16.653	0.4	20.5	8 29	22 21.89	- 7 22.8	1.349	2.358	1.2	19.6
9 8	22 21.80	- 3 42.7	15.657	16.646	0.7	20.5	9 8	22 12.24	- 7 51.9	1.336	2.327	5.9	19.8
9 18	22 20.32	- 3 53.9	15.695	16.640	1.2	20.6	9 18	22 3.64	- 8 18.0	1.349	2.297	10.8	20.0
9 28	22 18.99	- 4 4.8	15.762	16.633	1.8	20.6	9 28	21 57.21	- 8 36.2	1.384	2.267	15.3	20.2
431330	2006 XG ₁₈	8 27.1 294°77		2°6/25.2 18			358809	2008 EF ₈₃	8 27.1 69°06		4°1/31.5 18		
7 20	22 48.36	-12 56.4	1.467	2.329	16.8	21.3	7 20						

EPHEMERIDES

8 27.1

8 27.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
167270	2003 <i>UQ</i> ₁₄₆		8 27.1 252°67	2°3/29.6	18		352966	2009 <i>BS</i> ₄₈		8 27.1 311°97	2°0/25.2	17	
7 20	22 46.83	+ 0 13.7	2.323	3.113	13.6	21.4	7 20	22 42.08	- 8 34.7	1.539	2.398	16.2	20.7
7 30	22 42.97	- 0 6.2	2.213	3.094	11.1	21.2	7 30	22 40.32	- 9 53.5	1.439	2.368	12.7	20.4
8 9	22 37.29	- 0 42.0	2.125	3.073	8.0	20.9	8 9	22 36.12	-11 34.1	1.360	2.339	8.5	20.1
8 19	22 30.16	- 1 32.5	2.062	3.053	4.7	20.7	8 19	22 29.85	-13 30.7	1.304	2.310	3.9	19.8
8 29	22 22.19	- 2 34.6	2.026	3.031	2.4	20.5	8 29	22 22.30	-15 33.7	1.275	2.281	2.9	19.6
9 8	22 14.16	- 3 43.4	2.019	3.009	4.4	20.6	9 8	22 14.58	-17 31.2	1.271	2.252	7.7	19.8
9 18	22 6.87	- 4 53.2	2.041	2.986	7.9	20.8	9 18	22 7.90	-19 12.4	1.291	2.224	12.6	20.0
9 28	22 1.06	- 5 58.4	2.088	2.963	11.2	21.0	9 28	22 3.39	-20 29.7	1.333	2.197	17.1	20.2
44823	1999 <i>TG</i> ₂₄₂		8 27.1 151°81	0°9/26.4	18		252737	2002 <i>CW</i> ₃₀₆		8 27.2 275°31	2°0/30.4	16	
7 20	22 47.50	- 7 10.9	1.568	2.412	16.7	19.2	7 20	22 41.35	+ 0 35.5	4.360	5.127	8.1	20.5
7 30	22 44.14	- 8 11.6	1.495	2.415	13.0	19.0	7 30	22 37.77	+ 0 44.3	4.257	5.119	6.6	20.4
8 9	22 38.35	- 9 29.8	1.443	2.417	8.7	18.7	8 9	22 33.31	+ 0 45.7	4.177	5.112	4.9	20.3
8 19	22 30.69	-10 59.9	1.414	2.418	3.8	18.4	8 19	22 28.19	+ 0 40.5	4.124	5.105	3.1	20.1
8 29	22 22.08	-12 33.4	1.412	2.420	1.6	18.3	8 29	22 22.75	+ 0 29.4	4.100	5.098	2.0	20.0
9 8	22 13.67	-14 0.8	1.436	2.422	6.4	18.6	9 8	22 17.33	+ 0 14.3	4.106	5.090	2.7	20.1
9 18	22 6.56	-15 14.4	1.485	2.423	10.9	18.9	9 18	22 12.31	- 0 3.2	4.141	5.083	4.4	20.2
9 28	22 1.64	-16 9.2	1.558	2.424	14.9	19.1	9 28	22 8.01	- 0 21.1	4.203	5.076	6.1	20.3
483255	2015 <i>TS</i> ₇		8 27.1 262°14	3°3/23.3	18		449080	2012 <i>HF</i> ₇₅		8 27.2 232°93	6°6/18.1	18	
7 20	22 44.86	-16 42.4	2.314	3.165	11.8	20.7	7 20	22 50.61	-33 40.1	2.952	3.786	10.0	21.4
7 30	22 41.38	-17 50.7	2.236	3.160	9.1	20.6	7 30	22 45.62	-34 44.4	2.879	3.774	8.3	21.3
8 9	22 36.15	-19 5.1	2.181	3.155	6.1	20.4	8 9	22 38.88	-35 43.6	2.830	3.761	7.1	21.2
8 19	22 29.58	-20 20.0	2.152	3.151	3.6	20.2	8 19	22 30.84	-36 32.2	2.807	3.748	6.6	21.1
8 29	22 22.34	-21 29.2	2.152	3.146	3.9	20.2	8 29	22 22.15	-37 5.2	2.811	3.735	7.2	21.1
9 8	22 15.21	-22 27.1	2.179	3.141	6.6	20.4	9 8	22 13.58	-37 19.5	2.841	3.721	8.7	21.2
9 18	22 8.94	-23 9.9	2.233	3.136	9.5	20.6	9 18	22 5.89	-37 14.2	2.896	3.706	10.4	21.3
9 28	22 4.19	-23 35.6	2.310	3.131	12.2	20.7	9 28	21 59.71	-36 50.2	2.972	3.692	12.1	21.4
164854	1999 <i>TK</i> ₂₀₄		8 27.1 3°05	21°8/17.0	17		221471	2006 <i>BH</i> ₁₄₇		8 27.2 210°13	0°2/27.4	18	
7 20	23 16.82	-50 43.8	0.983	1.820	24.9	19.5	7 20	22 43.98	- 5 40.1	2.735	3.547	11.2	21.1
7 30	23 10.22	-52 24.8	0.954	1.819	23.3	19.4	7 30	22 40.38	- 6 23.8	2.643	3.543	8.8	21.0
8 9	22 57.18	-53 32.8	0.938	1.819	22.1	19.3	8 9	22 35.34	- 7 18.4	2.574	3.538	5.9	20.8
8 19	22 39.39	-53 47.8	0.936	1.819	21.9	19.3	8 19	22 29.21	- 8 21.1	2.532	3.534	2.8	20.6
8 29	22 20.22	-52 56.3	0.950	1.820	22.5	19.4	8 29	22 22.52	- 9 27.9	2.519	3.528	0.6	20.4
9 8	22 3.46	-50 59.1	0.979	1.821	23.9	19.5	9 8	22 15.89	-10 33.9	2.535	3.523	3.8	20.6
9 18	21 51.58	-48 8.7	1.023	1.822	25.8	19.6	9 18	22 9.93	-11 34.9	2.581	3.517	6.9	20.8
9 28	21 45.45	-44 42.4	1.082	1.825	27.7	19.8	9 28	22 5.20	-12 27.3	2.652	3.512	9.7	21.0
100749	1998 <i>EN</i> ₅		8 27.1 150°23	3°2/24.4	18		445519	2010 <i>XE</i> ₁₃		8 27.2 41°93	9°2/ 6.4	18	
7 20	22 50.04	-13 45.8	1.568	2.425	16.1	20.1	7 20	22 45.49	+17 25.6	2.034	2.736	17.9	19.8
7 30	22 46.13	-14 52.0	1.501	2.428	12.4	19.8	7 30	22 42.08	+18 16.4	1.960	2.747	15.9	19.6
8 9	22 39.69	-16 9.3	1.454	2.432	8.2	19.6	8 9	22 36.73	+18 42.9	1.903	2.759	13.6	19.5
8 19	22 31.31	-17 30.1	1.432	2.435	4.2	19.4	8 19	22 29.91	+18 42.5	1.866	2.772	11.4	19.4
8 29	22 21.98	-18 45.4	1.436	2.438	4.0	19.4	8 29	22 22.36	+18 14.5	1.850	2.784	9.7	19.3
9 8	22 12.93	-19 47.0	1.466	2.440	7.8	19.6	9 8	22 14.98	+17 21.8	1.859	2.797	9.2	19.3
9 18	22 5.28	-20 29.5	1.521	2.443	11.9	19.9	9 18	22 8.60	+16 10.0	1.892	2.811	10.1	19.4
9 28	21 59.93	-20 50.7	1.598	2.445	15.6	20.1	9 28	22 3.96	+14 46.8	1.948	2.824	11.9	19.5
478235	2011 <i>UR</i> ₃₃₅		8 27.1 34°32	2°1/25.7	18		397964	2008 <i>YT</i> ₁₁₈		8 27.2 234°34	2°4/24.8	18	
7 20	22 50.20	-13 51.4	1.474	2.334	16.8	20.4	7 20	22 46.83	-12 55.3	1.935	2.783	13.9	21.3
7 30	22 46.15	-14 7.3	1.419	2.348	12.9	20.2	7 30	22 43.22	-13 52.4	1.857	2.780	10.7	21.1
8 9	22 39.58	-14 30.9	1.384	2.362	8.5	20.0	8 9	22 37.55	-14 59.2	1.802	2.778	7.0	20.9
8 19	22 31.19	-14 57.2	1.372	2.377	4.0	19.7	8 19	22 30.31	-16 10.2	1.772	2.775	3.4	20.7
8 29	22 22.04	-15 19.8	1.386	2.392	2.7	19.7	8 29	22 22.26	-17 18.6	1.769	2.772	3.0	20.7
9 8	22 13.39	-15 33.6	1.425	2.408	6.8	20.0	9 8	22 14.37	-18 17.6	1.794	2.770	6.4	20.9
9 18	22 6.30	-15 35.3	1.488	2.425	11.0	20.3	9 18	22 7.53	-19 2.3	1.844	2.767	10.1	21.1
9 28	22 1.56	-15 23.5	1.574	2.442	14.7	20.5	9 28	22 2.51	-19 30.2	1.918	2.764	13.4	21.3
274908	2009 <i>SU</i> ₁₂₈		8 27.1 46°72	1°6/26.1	17		246958	1999 <i>SG</i> ₂₁		8 27.2 198°44	2°6/30.2	18	
7 20	22 49.68	-10 53.4	1.298	2.161	18.4	20.3	7 20	22 45.03	+ 1 12.7	2.562	3.346	12.7	20.9
7 30	22 46.07	-11 25.1	1.245	2.175	14.2	20.1	7 30	22 41.27	+ 1 2.3	2.470	3.344	10.3	20.7
8 9	22 39.69	-12 9.8	1.211	2.190	9.4	19.8	8 9	22 35.97	+ 0 37.9	2.400	3.342	7.6	20.6
8 19	22 31.29	-13 1.2	1.200	2.205	4.2	19.6	8 19	22 29.51	+ 0 0.8	2.354	3.340	4.7	20.4
8 29	22 22.02	-13 51.4	1.213	2.221	2.2	19.5	8 29	22 22.45	- 0 46.5	2.336	3.338	2.7	20.2
9 8	22 13.27	-14 32.6	1.250	2.237	7.1	19.9	9 8	22 15.48	- 1 40.1	2.347	3.335	4.0	20.3
9 18	22 6.23	-14 59.7	1.312	2.253	11.7	20.2	9 18	22 9.23	- 2 35.3	2.386	3.332	6.9	20.5
9 28	22 1.75	-15 10.0	1.394	2.270	15.7	20.5	9 28	22 4.30	- 3 27.8	2.451	3.329	9.7	20.7
52872	Okyrhoe		8 27.1 187°53	0°5/29.1	18		314536	2005 <i>YM</i> ₅₄		8 27.2 118°11	1°9/24.8	18	
7 20	22 32.81	- 3 24.1	10.119	10.902	3.5	21.4	7 20	22 45.42	-13 25.4	2.584	3.421	11.1	21.2
7 30	22 30.81	- 3 36.8	10.022	10.901	2.8	21.3	7 30	22 41.50	-14 18.5	2.514	3.431	8.5	21.1
8 9	22 28.48	- 3 52.4	9.950	10.900	1.9	21.2	8 9	22 36.06	-15 17.9	2.468	3.441	5.6	20.9
8 19	22 25.92	- 4 10.2	9.906	10.898	1.1	21.1	8 19	22 29.52	-16 19.3	2.449	3.451	2.7	20.7
8 29	22 23.25	- 4 29.6	9.891	10.897	0.5	21.1	8 29	22 22.46	-17 17.8	2.458	3.461	2.4	20.7
9 8	22 20.60	- 4 49.8	9.906	10.896	1.1	21.1	9 8	22 15.58	-18 8.8	2.497	3.471	5.0	20.9
9 18	22 18.10	- 5 10.0	9.952	10.894	1.9	21.2	9 18	22 9.50	-18 49.2	2.563	3.480	7.9	21.1
9 28	22 15.87	- 5 29.4	10.026	10.892	2.8	21.3	9 28	22 4.78	-19 16.7	2.654	3.489	10.4	21.3
206551	2003 <i>UW</i> ₂₃₄		8 27.1 339°62	1°8/26.1	18		389994	2012 <i>TC</i> ₂₉₅					

EPHEMERIDES

8 27.2

8 27.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
31117	1997 <i>QF</i> ₅		8 27.2 299°15	0°1/27.1	18		482970	2014 <i>KM</i> ₈₂		8 27.2 53°26	0°6/27.6	18	
7 20	22 46.88	- 7 14.6	1.520	2.368	17.0	19.3	7 20	22 53.71	- 9 11.0	2.113	2.932	13.9	20.0
7 30	22 43.94	- 7 40.3	1.433	2.353	13.4	19.0	7 30	22 48.14	- 8 46.4	2.039	2.943	10.9	19.8
8 9	22 38.45	- 8 22.3	1.365	2.338	9.1	18.7	8 9	22 40.61	- 8 28.9	1.988	2.953	7.4	19.6
8 19	22 30.88	- 9 17.2	1.320	2.324	4.2	18.4	8 19	22 31.65	- 8 16.8	1.963	2.964	3.5	19.4
8 29	22 22.15	-10 18.5	1.300	2.309	1.0	18.1	8 29	22 22.08	- 8 7.6	1.966	2.975	0.8	19.2
9 8	22 13.45	-11 18.4	1.305	2.295	6.2	18.5	9 8	22 12.81	- 7 58.8	1.997	2.986	4.5	19.5
9 18	22 5.97	-12 9.6	1.335	2.281	11.2	18.7	9 18	22 4.67	- 7 48.1	2.057	2.997	8.2	19.7
9 28	22 0.77	-12 46.7	1.387	2.268	15.5	18.9	9 28	21 58.36	- 7 33.5	2.142	3.009	11.4	19.9
86066	1999 <i>RR</i> ₂₇		8 27.2 321°97	2°1/25.7	18		425816	2011 <i>DD</i> ₂₄		8 27.2 184°52	2°8/24.6	17	
7 20	22 49.53	-15 1.4	1.715	2.569	15.1	19.0	7 20	22 50.84	-14 48.2	1.942	2.786	14.0	21.6
7 30	22 45.86	-15 4.4	1.615	2.540	11.8	18.7	7 30	22 46.33	-15 40.1	1.866	2.787	10.8	21.4
8 9	22 39.69	-15 13.0	1.536	2.512	8.0	18.4	8 9	22 39.64	-16 39.7	1.812	2.787	7.2	21.1
8 19	22 31.46	-15 23.4	1.480	2.484	3.9	18.1	8 19	22 31.31	-17 41.2	1.784	2.786	3.7	20.9
8 29	22 22.02	-15 30.3	1.450	2.456	2.7	17.9	8 29	22 22.15	-18 38.0	1.784	2.785	3.4	20.9
9 8	22 12.54	-15 29.0	1.446	2.429	6.8	18.1	9 8	22 13.18	-19 23.8	1.811	2.783	6.7	21.1
9 18	22 4.18	-15 16.1	1.468	2.403	11.2	18.3	9 18	22 5.35	-19 54.7	1.864	2.781	10.4	21.3
9 28	21 57.99	-14 50.1	1.511	2.378	15.3	18.5	9 28	21 59.46	-20 8.7	1.940	2.778	13.6	21.5
13060	1991 <i>EJ</i>		8 27.2 333°36	5°6/5.5	18		59357	1999 <i>CB</i> ₁₅₄		8 27.2 277°59	2°4/29.2	18	
7 20	22 41.74	+16 52.2	3.954	4.614	10.4	17.7	7 20	22 47.01	- 1 17.4	1.687	2.507	16.8	19.1
7 30	22 38.27	+17 28.5	3.851	4.608	9.2	17.6	7 30	22 43.81	- 1 29.3	1.593	2.491	13.6	18.9
8 9	22 33.76	+17 52.1	3.768	4.602	7.9	17.5	8 9	22 38.26	- 2 0.3	1.518	2.476	9.8	18.6
8 19	22 28.46	+18 2.0	3.707	4.597	6.7	17.4	8 19	22 30.80	- 2 49.1	1.465	2.461	5.5	18.3
8 29	22 22.74	+17 57.9	3.672	4.592	5.8	17.3	8 29	22 22.25	- 3 51.5	1.439	2.445	2.4	18.1
9 8	22 17.03	+17 40.9	3.662	4.587	5.6	17.3	9 8	22 13.67	- 5 1.0	1.438	2.430	5.4	18.3
9 18	22 11.75	+17 12.8	3.680	4.582	6.2	17.3	9 18	22 6.16	- 6 9.8	1.463	2.414	9.9	18.5
9 28	22 7.32	+16 36.6	3.723	4.577	7.3	17.4	9 28	22 0.70	- 7 11.0	1.512	2.398	14.1	18.7
431408	2007 <i>GM</i> ₆₅		8 27.2 57°69	4°8/23.8	16		151627	2002 <i>WB</i> ₁₂		8 27.2 222°54	2°7/24.4	18	
7 20	22 52.80	-19 37.7	1.519	2.382	16.2	21.3	7 20	22 48.32	-12 11.1	1.868	2.714	14.4	20.4
7 30	22 48.21	-20 20.1	1.465	2.395	12.5	21.1	7 30	22 44.57	-13 29.9	1.784	2.706	11.1	20.2
8 9	22 41.00	-21 5.4	1.433	2.408	8.6	20.9	8 9	22 38.62	-15 1.3	1.723	2.698	7.3	20.0
8 19	22 31.88	-21 46.4	1.424	2.421	5.3	20.7	8 19	22 30.91	-16 39.0	1.687	2.690	3.7	19.7
8 29	22 21.99	-22 15.4	1.440	2.435	5.4	20.8	8 29	22 22.24	-18 14.4	1.679	2.681	3.4	19.7
9 8	22 12.63	-22 27.2	1.482	2.448	8.6	21.0	9 8	22 13.64	-19 39.2	1.699	2.671	7.1	19.9
9 18	22 4.90	-22 20.0	1.548	2.462	12.2	21.2	9 18	22 6.10	-20 46.9	1.744	2.661	10.9	20.1
9 28	21 59.64	-21 54.4	1.635	2.476	15.6	21.5	9 28	22 0.49	-21 34.0	1.813	2.651	14.4	20.3
159153	2004 <i>XP</i> ₁₃₃		8 27.2 352°42	3°1/25.5	18		50585	2000 <i>EL</i> ₄₃		8 27.2 270°80	0°1/27.1	18	
7 20	22 43.28	-15 32.3	1.018	1.915	19.7	18.3	7 20	22 48.56	- 7 11.8	1.677	2.515	16.1	20.3
7 30	22 42.10	-15 34.8	0.954	1.903	15.4	18.0	7 30	22 45.09	- 7 42.9	1.582	2.497	12.7	20.0
8 9	22 37.67	-15 45.3	0.906	1.892	10.4	17.7	8 9	22 39.17	- 8 29.8	1.507	2.478	8.6	19.8
8 19	22 30.62	-15 58.0	0.879	1.884	5.1	17.4	8 19	22 31.25	- 9 28.9	1.456	2.460	4.0	19.4
8 29	22 22.24	-16 5.1	0.872	1.878	3.8	17.3	8 29	22 22.16	-10 34.3	1.431	2.441	1.0	19.2
9 8	22 14.19	-15 59.9	0.886	1.874	8.8	17.6	9 8	22 13.03	-11 38.4	1.433	2.421	6.0	19.5
9 18	22 8.00	-15 38.4	0.922	1.873	14.1	17.9	9 18	22 5.00	-12 34.0	1.460	2.402	10.7	19.7
9 28	22 4.83	-14 59.7	0.975	1.874	18.9	18.2	9 28	21 59.09	-13 16.0	1.510	2.382	14.9	19.9
79709	1998 <i>SD</i> ₁₀₂		8 27.2 346°33	2°7/29.2	17		235159	2003 <i>SG</i> ₃		8 27.2 324°94	1°6/26.0	18	
7 20	22 41.55	- 0 56.0	1.201	2.053	20.3	19.3	7 20	22 51.96	-13 17.7	1.765	2.610	15.1	19.9
7 30	22 40.24	- 1 12.0	1.127	2.045	16.4	19.0	7 30	22 47.37	-13 27.8	1.688	2.608	11.7	19.6
8 9	22 36.18	- 1 54.1	1.070	2.038	11.7	18.7	8 9	22 40.43	-13 45.0	1.632	2.606	7.8	19.4
8 19	22 29.90	- 3 0.4	1.033	2.032	6.6	18.4	8 19	22 31.70	-14 5.3	1.601	2.605	3.6	19.1
8 29	22 22.40	- 4 24.5	1.019	2.026	2.7	18.2	8 29	22 22.10	-14 23.6	1.596	2.603	2.1	19.0
9 8	22 15.06	- 5 56.0	1.028	2.022	6.4	18.4	9 8	22 12.75	-14 35.2	1.619	2.602	6.1	19.3
9 18	22 9.17	- 7 23.6	1.059	2.019	11.6	18.7	9 18	22 4.67	-14 36.8	1.667	2.601	10.2	19.5
9 28	22 5.83	- 8 37.6	1.112	2.018	16.4	18.9	9 28	21 58.71	-14 26.7	1.738	2.599	13.8	19.8
371896	2008 <i>CF</i> ₁₃₀		8 27.2 140°78	0°8/27.8	17		220213	2002 <i>VY</i> ₇₆		8 27.2 257°18	1°7/25.8	18	
7 20	22 52.08	- 5 51.3	1.741	2.566	16.2	21.8	7 20	22 49.20	-10 44.3	1.730	2.575	15.4	21.0
7 30	22 47.38	- 6 6.7	1.669	2.574	12.7	21.6	7 30	22 45.49	-11 30.0	1.640	2.561	12.0	20.7
8 9	22 40.37	- 6 36.2	1.617	2.582	8.7	21.4	8 9	22 39.37	-12 28.7	1.571	2.546	8.0	20.5
8 19	22 31.63	- 7 16.4	1.588	2.590	4.2	21.1	8 19	22 31.32	-13 35.6	1.527	2.531	3.7	20.2
8 29	22 22.05	- 8 2.6	1.587	2.597	1.0	20.9	8 29	22 22.17	-14 43.4	1.509	2.515	2.3	20.1
9 8	22 12.75	- 8 48.4	1.613	2.603	5.3	21.3	9 8	22 13.05	-15 44.5	1.517	2.500	6.6	20.3
9 18	22 4.73	- 9 28.6	1.666	2.609	9.5	21.5	9 18	22 5.05	-16 32.7	1.552	2.483	11.0	20.5
9 28	21 58.80	- 9 59.0	1.742	2.615	13.3	21.8	9 28	21 59.14	-17 4.0	1.609	2.467	14.9	20.7
170632	2003 <i>YK</i> ₇₀		8 27.2 244°22	2°4/24.4	18		261701	2005 <i>YR</i> ₂₃₈		8 27.2 33°07	1°1/26.0	18	
7 20	22 47.81	-14 3.3	2.379	3.216	11.9	20.9	7 20	22 45.55	-10 42.8	2.101	2.941	13.2	20.4
7 30	22 43.73	-15 2.5	2.282	3.199	9.2	20.7	7 30	22 42.00	-11 18.4	2.027	2.945	10.2	20.2
8 9	22 37.82	-16 10.1	2.209	3.182	6.1	20.5	8 9	22 36.63	-12 3.2	1.976	2.949	6.7	20.0
8 19	22 30.47	-17 21.1	2.162	3.164	3.2	20.3	8 19	22 29.90	-12 53.2	1.949	2.954	3.0	19.8
8 29	22 22.30	-18 29.7	2.144	3.145	3.0	20.2	8 29	22 22.52	-13 43.1	1.950	2.958	1.6	19.7
9 8	22 14.13	-19 30.1	2.155	3.126	6.0	20.4	9 8	22 15.33	-14 27.8	1.979	2.963	5.2	20.0
9 18	22 6.76	-20 17.9	2.193	3.106	9.2	20.6	9 18	22 9.10	-15 3.1	2.034	2.967	8.7	20.2
9 28	22 0.90	-20 50.2	2.256	3.086	12.2	20.7	9 28	22 4.51	-15 26.2	2.114	2.972	11.8	20.4
204858	2007 <i>RN</i> ₁₇₆		8 27.2 295°34	5°4/31.1	18		343519	2010 <i>EE</i> ₁₂₆					

EPHEMERIDES

8 27.2

8 27.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
357803	2005 <i>TP</i> ₁₂₉		8 27.2	13°26'	2°1/29.1	18	379846	2012 <i>BB</i> ₁₂₃		8 27.2	229°58'	0°9/26.2	18
7 20	22 44.39	- 2 2.7	1.775	2.599	15.9	20.9	7 20	22 45.91	-10 14.7	2.437	3.268	11.9	22.1
7 30	22 41.44	- 2 12.7	1.700	2.601	12.7	20.7	7 30	22 42.10	-10 51.0	2.350	3.262	9.2	21.9
8 9	22 36.43	- 2 39.5	1.644	2.604	9.0	20.5	8 9	22 36.64	-11 36.1	2.286	3.257	6.1	21.7
8 19	22 29.86	- 3 21.0	1.612	2.608	5.0	20.2	8 19	22 29.93	-12 26.4	2.248	3.252	2.7	21.5
8 29	22 22.53	- 4 12.9	1.605	2.612	2.1	20.1	8 29	22 22.57	-13 17.4	2.238	3.246	1.4	21.4
9 8	22 15.39	- 5 9.3	1.625	2.617	4.9	20.3	9 8	22 15.31	-14 4.5	2.257	3.240	4.7	21.6
9 18	22 9.33	- 6 3.9	1.671	2.622	8.8	20.5	9 18	22 8.84	-14 43.8	2.303	3.234	8.0	21.8
9 28	22 5.10	- 6 51.2	1.740	2.628	12.5	20.7	9 28	22 3.79	-15 12.2	2.375	3.228	10.9	22.0
77146	2001 <i>EC</i> ₆		8 27.2	151°73'	2°0/25.4	18	257548	1998 <i>SV</i> ₄₀		8 27.2	88°13'	2°0/25.4	18
7 20	22 51.06	-11 36.1	1.732	2.575	15.4	20.1	7 20	22 49.96	-15 12.7	2.299	3.137	12.3	20.2
7 30	22 46.69	-12 28.7	1.662	2.582	11.9	19.9	7 30	22 45.21	-15 29.5	2.225	3.142	9.5	20.0
8 9	22 39.98	-13 32.4	1.613	2.588	7.8	19.7	8 9	22 38.67	-15 50.6	2.174	3.147	6.3	19.9
8 19	22 31.50	-14 41.4	1.589	2.593	3.6	19.4	8 19	22 30.83	-16 12.4	2.149	3.152	3.1	19.7
8 29	22 22.17	-15 48.3	1.592	2.598	2.6	19.4	8 29	22 22.39	-16 30.7	2.152	3.157	2.4	19.6
9 8	22 13.10	-16 45.9	1.623	2.602	6.6	19.6	9 8	22 14.18	-16 42.0	2.184	3.161	5.3	19.8
9 18	22 5.31	-17 29.0	1.679	2.606	10.6	19.9	9 18	22 6.96	-16 44.0	2.243	3.166	8.5	20.0
9 28	21 59.64	-17 54.8	1.758	2.610	14.2	20.1	9 28	22 1.37	-16 35.3	2.326	3.171	11.4	20.2
269838	2000 <i>CY</i> ₂₀		8 27.2	224°04'	0°7/27.8	18	482208	2010 <i>VQ</i> ₁₉₉		8 27.2	246°10'	9°6/11.5	18
7 20	22 49.86	- 5 15.7	1.853	2.675	15.4	21.6	7 20	22 56.18	-46 35.6	2.953	3.748	10.9	22.2
7 30	22 45.75	- 5 40.1	1.763	2.667	12.2	21.4	7 30	22 50.46	-48 2.0	2.894	3.729	10.1	22.1
8 9	22 39.40	- 6 19.5	1.694	2.659	8.4	21.1	8 9	22 42.45	-49 16.9	2.857	3.711	9.6	22.1
8 19	22 31.29	- 7 11.0	1.649	2.650	4.1	20.9	8 19	22 32.66	-50 13.6	2.843	3.691	9.8	22.0
8 29	22 22.21	- 8 9.6	1.631	2.641	0.9	20.6	8 29	22 21.96	-50 46.6	2.853	3.672	10.5	22.1
9 8	22 13.20	- 9 8.9	1.641	2.631	5.2	20.9	9 8	22 11.41	-50 53.2	2.885	3.651	11.6	22.1
9 18	22 5.25	-10 2.7	1.678	2.621	9.5	21.1	9 18	22 2.03	-50 33.6	2.937	3.630	12.8	22.2
9 28	21 59.24	-10 46.0	1.738	2.610	13.3	21.4	9 28	21 54.67	-49 50.3	3.007	3.609	14.0	22.3
72694	2001 <i>FT</i> ₇₂		8 27.2	114°35'	2°0/24.9	18	446219	2013 <i>GB</i> ₅₆		8 27.2	128°61'	1°0/26.1	18
7 20	22 46.42	-14 15.0	2.456	3.295	11.6	19.1	7 20	22 46.95	-10 53.8	2.496	3.325	11.7	21.8
7 30	22 42.40	-14 54.0	2.382	3.300	8.9	19.0	7 30	22 42.76	-11 27.8	2.422	3.334	9.0	21.6
8 9	22 36.76	-15 38.7	2.332	3.306	5.8	18.8	8 9	22 36.98	-12 9.3	2.371	3.342	5.9	21.5
8 19	22 29.93	-16 25.0	2.308	3.311	2.9	18.6	8 19	22 30.05	-12 54.7	2.347	3.350	2.7	21.3
8 29	22 22.54	-17 8.3	2.313	3.316	2.4	18.6	8 29	22 22.58	-13 39.8	2.351	3.358	1.4	21.2
9 8	22 15.33	-17 44.3	2.345	3.320	5.2	18.8	9 8	22 15.29	-14 20.4	2.384	3.366	4.5	21.4
9 18	22 8.97	-18 10.0	2.405	3.325	8.2	19.0	9 18	22 8.83	-14 52.9	2.444	3.373	7.6	21.6
9 28	22 4.06	-18 23.6	2.490	3.330	10.9	19.2	9 28	22 3.80	-15 15.1	2.530	3.380	10.4	21.8
115230	2003 <i>ST</i> ₁₄₃		8 27.2	303°67'	0°8/27.9	18	51582	2001 <i>HU</i> ₉		8 27.2	12°58'	5°4/23.5	18
7 20	22 45.89	- 6 5.1	2.277	3.098	13.0	20.0	7 20	22 48.59	-18 16.5	1.242	2.122	18.0	18.3
7 30	22 42.22	- 6 12.6	2.184	3.087	10.2	19.8	7 30	22 45.68	-19 16.7	1.184	2.124	13.9	18.1
8 9	22 36.79	- 6 30.7	2.113	3.077	7.0	19.6	8 9	22 39.76	-20 24.0	1.146	2.126	9.5	17.9
8 19	22 30.01	- 6 57.3	2.067	3.067	3.5	19.3	8 19	22 31.54	-21 29.0	1.130	2.129	5.9	17.7
8 29	22 22.52	- 7 29.2	2.048	3.057	0.9	19.1	8 29	22 22.24	-22 21.5	1.137	2.133	6.2	17.7
9 8	22 15.09	- 8 2.3	2.058	3.048	4.3	19.4	9 8	22 13.37	-22 53.2	1.168	2.137	9.9	17.9
9 18	22 8.49	- 8 32.5	2.094	3.038	7.8	19.6	9 18	22 6.26	-23 0.5	1.220	2.142	14.2	18.2
9 28	22 3.39	- 8 56.4	2.156	3.029	11.1	19.8	9 28	22 1.92	-22 43.5	1.292	2.148	18.0	18.5
505719	2015 <i>AP</i> ₁₈₇		8 27.2	276°02'	0°6/26.7	18	70703	1999 <i>UO</i> ₃₈		8 27.2	140°70'	0°1/27.2	18
7 20	22 48.58	- 7 56.7	1.451	2.301	17.5	21.7	7 20	22 53.62	- 9 2.9	1.569	2.407	17.0	18.1
7 30	22 45.46	- 8 32.6	1.364	2.286	13.8	21.5	7 30	22 48.91	- 9 7.5	1.496	2.411	13.3	17.9
8 9	22 39.62	- 9 26.0	1.296	2.271	9.3	21.2	8 9	22 41.61	- 9 23.7	1.443	2.414	9.0	17.6
8 19	22 31.53	-10 32.5	1.251	2.256	4.3	20.8	8 19	22 32.32	- 9 48.2	1.414	2.417	4.1	17.3
8 29	22 22.15	-11 44.6	1.231	2.240	1.4	20.6	8 29	22 22.07	-10 15.7	1.411	2.420	0.9	17.1
9 8	22 12.78	-12 53.3	1.237	2.225	6.8	20.9	9 8	22 12.11	-10 40.6	1.434	2.423	5.9	17.5
9 18	22 4.72	-13 50.6	1.267	2.210	11.9	21.2	9 18	22 3.60	-10 58.2	1.483	2.425	10.5	17.7
9 28	21 59.08	-14 30.8	1.318	2.194	16.4	21.4	9 28	21 57.45	-11 5.4	1.555	2.428	14.5	18.0
50699	2000 <i>EC</i> ₁₂₉		8 27.2	278°21'	1°0/26.3	18	407083	2009 <i>ST</i> ₂₂₈		8 27.2	328°81'	2°3/25.4	18
7 20	22 46.71	- 9 41.8	1.916	2.757	14.3	19.4	7 20	22 50.19	-16 10.9	2.029	2.875	13.4	20.5
7 30	22 43.21	-10 20.4	1.832	2.750	11.1	19.2	7 30	22 45.77	-16 19.8	1.945	2.866	10.4	20.3
8 9	22 37.63	-11 10.6	1.769	2.742	7.4	19.0	8 9	22 39.27	-16 32.8	1.884	2.858	7.0	20.1
8 19	22 30.45	-12 8.3	1.731	2.735	3.3	18.7	8 19	22 31.19	-16 45.8	1.847	2.850	3.5	19.8
8 29	22 22.43	-13 7.6	1.720	2.728	1.6	18.6	8 29	22 22.32	-16 54.4	1.838	2.842	2.8	19.8
9 8	22 14.50	-14 2.3	1.736	2.721	5.6	18.8	9 8	22 13.62	-16 54.8	1.856	2.835	6.0	20.0
9 18	22 7.60	-14 47.0	1.778	2.714	9.6	19.0	9 18	22 6.01	-16 44.7	1.901	2.828	9.6	20.2
9 28	22 2.52	-15 18.0	1.844	2.706	13.1	19.3	9 28	22 0.25	-16 23.1	1.969	2.821	12.9	20.4
364543	2007 <i>GX</i> ₂		8 27.2	265°31'	2°6/30.3	18	288412	2004 <i>DC</i> ₃₆		8 27.2	136°56'	2°3/29.8	18
7 20	22 43.79	+ 1 40.2	2.347	3.136	13.5	21.1	7 20	22 44.96	+ 1 28.5	2.187	2.980	14.3	21.0
7 30	22 40.54	+ 1 18.5	2.252	3.130	11.0	20.9	7 30	22 41.50	+ 0 48.2	2.104	2.985	11.5	20.8
8 9	22 35.64	+ 0 40.4	2.179	3.124	8.1	20.7	8 9	22 36.30	- 0 10.2	2.041	2.990	8.3	20.6
8 19	22 29.48	- 0 12.6	2.130	3.118	4.9	20.5	8 19	22 29.79	- 1 24.3	2.004	2.995	4.8	20.4
8 29	22 22.65	- 1 17.4	2.109	3.111	2.7	20.4	8 29	22 22.63	- 2 49.6	1.994	2.999	2.3	20.2
9 8	22 15.89	- 2 28.8	2.115	3.105	4.2	20.5	9 8	22 15.60	- 4 19.7	2.013	3.004	4.3	20.4
9 18	22 9.88	- 3 41.3	2.150	3.099	7.3	20.7	9 18	22 9.45	- 5 48.0	2.060	3.008	7.7	20.6
9 28	22 5.28	- 4 49.5	2.210	3.092	10.4	20.8	9 28	22 4.83	- 7 8.4	2.133	3.012	10.9	20.8
431191	2006 <i>SH</i> ₈₈		8 27.2	263°37'	1°5/26.0	17	184279	2005 <i>AM</i> ₄₃		8 2			

EPHEMERIDES

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8 27.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
338801	2003 <i>UE</i> ₄₀₁		8 27.2 201°06	3°1/29.8	18		125951	2001 <i>XF</i> ₂₅₃		8 27.2 292°55	7°4/	1.0	18
7 20	22 48.74	- 0 15.0	1.904	2.707	15.8	21.2	7 20	22 50.80	+ 6 20.3	1.693	2.469	18.4	20.0
7 30	22 44.74	- 0 7.9	1.819	2.706	12.8	21.0	7 30	22 46.87	+ 7 24.9	1.597	2.455	15.8	19.7
8 9	22 38.64	- 0 16.9	1.755	2.705	9.3	20.8	8 9	22 40.44	+ 8 11.5	1.519	2.440	12.7	19.5
8 19	22 30.94	- 0 41.1	1.714	2.704	5.6	20.6	8 19	22 31.93	+ 8 36.9	1.463	2.425	9.5	19.3
8 29	22 22.39	- 1 17.7	1.700	2.703	3.1	20.4	8 29	22 22.18	+ 8 39.6	1.431	2.411	7.5	19.1
9 8	22 13.97	- 2 1.9	1.712	2.702	5.0	20.5	9 8	22 12.33	+ 8 21.6	1.423	2.397	8.1	19.1
9 18	22 6.60	- 2 48.2	1.751	2.701	8.7	20.8	9 18	22 3.57	+ 7 47.4	1.441	2.382	10.9	19.3
9 28	22 1.08	- 3 31.1	1.815	2.699	12.2	21.0	9 28	21 56.94	+ 7 4.3	1.481	2.368	14.3	19.4
24004	1999 <i>RQ</i> ₅₇		8 27.2 26°16	2°7/25.8	18 R		358715	2008 <i>BV</i> ₅		8 27.2 240°72	0°9/28.0	18	
7 20	22 57.33	-17 11.3	1.467	2.321	17.2	17.0	7 20	22 48.41	- 5 57.4	2.084	2.905	14.0	21.2
7 30	22 51.88	-16 59.1	1.402	2.327	13.3	16.7	7 30	22 44.29	- 6 2.5	2.000	2.903	11.1	21.0
8 9	22 43.59	-16 49.7	1.358	2.333	9.0	16.5	8 9	22 38.24	- 6 19.0	1.938	2.902	7.6	20.8
8 19	22 33.20	-16 38.4	1.336	2.339	4.4	16.3	8 19	22 30.73	- 6 44.6	1.900	2.900	3.8	20.6
8 29	22 21.92	-16 20.7	1.341	2.346	3.1	16.2	8 29	22 22.48	- 7 15.8	1.890	2.899	1.0	20.3
9 8	22 11.16	-15 53.1	1.372	2.354	7.2	16.5	9 8	22 14.37	- 7 48.1	1.907	2.898	4.5	20.6
9 18	22 2.16	-15 14.7	1.428	2.362	11.6	16.7	9 18	22 7.24	- 8 17.3	1.952	2.896	8.3	20.8
9 28	21 55.82	-14 26.0	1.506	2.370	15.4	17.0	9 28	22 1.79	- 8 39.7	2.021	2.894	11.7	21.0
315834	2008 <i>GD</i> ₁₂₉		8 27.2 50°75	0°3/26.9	18		317236	2002 <i>CB</i> ₂₀₁		8 27.2 187°91	0°3/27.0	17	
7 20	22 46.62	- 8 36.2	2.016	2.851	13.9	20.8	7 20	22 52.03	- 7 35.4	1.726	2.557	16.0	22.4
7 30	22 42.84	- 9 0.5	1.950	2.863	10.8	20.6	7 30	22 47.55	- 8 7.8	1.646	2.557	12.6	22.2
8 9	22 37.19	- 9 35.1	1.904	2.875	7.2	20.4	8 9	22 40.67	- 8 54.3	1.587	2.556	8.5	21.9
8 19	22 30.19	-10 16.5	1.884	2.888	3.2	20.2	8 19	22 31.92	- 9 50.8	1.551	2.555	3.9	21.6
8 29	22 22.58	-10 59.9	1.891	2.901	0.9	20.0	8 29	22 22.22	-10 51.2	1.543	2.553	1.0	21.4
9 8	22 15.22	-11 40.3	1.926	2.914	4.8	20.4	9 8	22 12.67	-11 48.5	1.562	2.550	5.7	21.8
9 18	22 8.91	-12 13.4	1.987	2.927	8.5	20.6	9 18	22 4.37	-12 36.6	1.608	2.547	10.2	22.0
9 28	22 4.29	-12 36.1	2.073	2.940	11.7	20.8	9 28	21 58.20	-13 11.4	1.677	2.543	14.0	22.2
212784	2007 <i>TV</i> ₂₁₂		8 27.2 86°83	0°7/26.8	17		139086	2001 <i>FL</i> ₂₅		8 27.2 157°41	1°0/26.4	18	
7 20	22 54.73	- 9 59.3	1.384	2.232	18.4	20.6	7 20	22 53.32	-10 30.4	1.785	2.619	15.4	19.8
7 30	22 49.91	-10 12.0	1.325	2.246	14.3	20.4	7 30	22 48.37	-10 55.7	1.711	2.625	12.0	19.6
8 9	22 42.30	-10 37.1	1.286	2.260	9.5	20.1	8 9	22 41.10	-11 31.3	1.659	2.630	8.0	19.4
8 19	22 32.62	-11 9.7	1.270	2.274	4.3	19.9	8 19	22 32.07	-12 12.9	1.631	2.635	3.6	19.1
8 29	22 22.05	-11 43.5	1.278	2.287	1.4	19.7	8 29	22 22.20	-12 54.7	1.631	2.639	1.6	19.0
9 8	22 11.98	-12 11.8	1.313	2.301	6.5	20.1	9 8	22 12.59	-13 31.0	1.658	2.643	5.8	19.3
9 18	22 3.63	-12 30.1	1.372	2.315	11.3	20.4	9 18	22 4.26	-13 57.3	1.712	2.646	10.0	19.5
9 28	21 57.91	-12 35.4	1.454	2.328	15.3	20.7	9 28	21 58.04	-14 10.9	1.789	2.649	13.6	19.8
453473	2009 <i>SJ</i> ₂₀₈		8 27.2 313°00	1°9/29.1	17		178284	1978 <i>WB</i> ₁		8 27.2 300°34	7°9/18.6	18	
7 20	22 44.02	- 2 18.9	2.105	2.919	14.1	21.9	7 20	22 48.79	-30 15.6	2.069	2.925	12.8	19.4
7 30	22 41.00	- 2 28.9	2.007	2.903	11.3	21.7	7 30	22 45.03	-31 37.1	1.994	2.908	10.5	19.2
8 9	22 36.12	- 2 53.4	1.929	2.887	8.1	21.5	8 9	22 38.99	-32 55.6	1.941	2.891	8.6	19.0
8 19	22 29.79	- 3 31.1	1.876	2.872	4.5	21.3	8 19	22 31.16	-34 3.3	1.914	2.873	7.9	19.0
8 29	22 22.65	- 4 18.4	1.849	2.856	1.9	21.0	8 29	22 22.38	-34 52.2	1.912	2.856	8.8	19.0
9 8	22 15.52	- 5 10.7	1.850	2.841	4.5	21.2	9 8	22 13.72	-35 17.1	1.934	2.839	10.8	19.1
9 18	22 9.21	- 6 2.6	1.877	2.827	8.2	21.4	9 18	22 6.20	-35 16.2	1.979	2.822	13.3	19.2
9 28	22 4.48	- 6 48.9	1.929	2.812	11.7	21.6	9 28	22 0.69	-34 50.4	2.044	2.805	15.6	19.3
246428	2007 <i>VD</i> ₆₅		8 27.2 326°45	2°2/29.1	18		99174	2001 <i>FR</i> ₁₆₃		8 27.2 232°11	2°4/24.3	18	
7 20	22 46.50	- 2 38.8	1.763	2.586	16.1	20.3	7 20	22 44.91	-14 13.2	2.413	3.256	11.6	19.7
7 30	22 43.22	- 2 38.4	1.678	2.579	12.9	20.0	7 30	22 41.39	-15 14.4	2.332	3.253	8.9	19.5
8 9	22 37.75	- 2 53.9	1.613	2.572	9.2	19.8	8 9	22 36.21	-16 22.8	2.275	3.249	5.9	19.3
8 19	22 30.57	- 3 23.8	1.570	2.566	5.1	19.6	8 19	22 29.77	-17 33.6	2.244	3.246	3.1	19.1
8 29	22 22.49	- 4 4.5	1.553	2.560	2.2	19.4	8 29	22 22.70	-18 41.2	2.242	3.243	2.9	19.1
9 8	22 14.50	- 4 50.4	1.563	2.555	5.1	19.5	9 8	22 15.72	-19 40.1	2.269	3.239	5.7	19.3
9 18	22 7.59	- 5 35.8	1.599	2.550	9.2	19.8	9 18	22 9.56	-20 26.4	2.322	3.236	8.7	19.5
9 28	22 2.60	- 6 15.2	1.658	2.545	13.0	20.0	9 28	22 4.83	-20 57.8	2.399	3.232	11.5	19.7
219967	2002 <i>JX</i> ₉₃		8 27.2 25°62	5°0/	1.2	18	137681	1999 <i>XT</i> ₄₆		8 27.2 309°39	5°1/30.9	17	
7 20	22 44.74	+ 5 45.6	2.043	2.819	15.7	19.3	7 20	22 46.82	+ 2 39.4	1.411	2.228	19.6	20.3
7 30	22 41.47	+ 6 2.5	1.964	2.824	13.1	19.1	7 30	22 44.11	+ 3 1.8	1.325	2.216	16.3	20.0
8 9	22 36.35	+ 6 0.8	1.904	2.830	10.2	18.9	8 9	22 38.75	+ 3 1.5	1.257	2.205	12.4	19.8
8 19	22 29.85	+ 5 40.2	1.866	2.837	7.2	18.7	8 19	22 31.19	+ 2 37.3	1.209	2.194	8.2	19.5
8 29	22 22.66	+ 5 2.7	1.854	2.843	5.1	18.6	8 29	22 22.37	+ 1 51.5	1.185	2.184	5.2	19.3
9 8	22 15.62	+ 4 12.3	1.869	2.850	5.6	18.7	9 8	22 13.57	+ 0 49.8	1.184	2.173	6.8	19.4
9 18	22 9.53	+ 3 14.7	1.909	2.858	8.2	18.9	9 18	22 6.05	- 0 19.3	1.207	2.163	11.0	19.6
9 28	22 5.06	+ 2 15.9	1.975	2.865	11.1	19.1	9 28	22 0.93	- 1 26.6	1.252	2.154	15.3	19.8
297054	2010 <i>HP</i> ₁₀₄		8 27.2 96°79	0°4/26.8	18		292180	2006 <i>SZ</i> ₁₈		8 27.2 193°59	0°3/26.9	18	
7 20	22 45.94	- 6 40.0	1.896	2.729	14.7	20.6	7 20	22 50.68	- 7 36.6	1.875	2.703	15.0	22.1
7 30	22 42.53	- 7 36.5	1.823	2.735	11.4	20.4	7 30	22 46.32	- 8 13.1	1.792	2.701	11.8	21.8
8 9	22 37.13	- 8 47.6	1.771	2.742	7.6	20.2	8 9	22 39.76	- 9 3.1	1.730	2.699	7.9	21.6
8 19	22 30.22	-10 8.7	1.744	2.748	3.4	19.9	8 19	22 31.49	-10 2.5	1.693	2.697	3.6	21.3
8 29	22 22.58	-11 33.1	1.745	2.754	1.1	19.8	8 29	22 22.33	-11 5.5	1.684	2.693	1.0	21.1
9 8	22 15.13	-12 53.2	1.774	2.760	5.3	20.1	9 8	22 13.30	-12 5.4	1.703	2.689	5.0	21.4
9 18	22 8.73	-14 2.8	1.829	2.766	9.2	20.3	9 18	22 5.38	-12 56.6	1.748	2.685	9.6	21.7
9 28	22 4.11	-14 57.5	1.908	2.772	12.7	20.6	9 28	21 59.40	-13 34.8	1.817	2.680	13.3	21.9
219285	2000 <i>CL</i> ₁₀₁		8 27.2 260°84	0°1/27.3	18		17892	Morecambewise		8 27.2			

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8 27.2

8 27.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
238181	2003 <i>SO</i> ₂₃₇		8 27.2 309°85	1.3°/28.3	18		315102	2007 <i>EO</i> ₈		8 27.2	2°84	2°4/25.1	18
7 20	22 45.28	- 3 49.9	1.679	2.512	16.3	20.1	7 20	22 49.28	-15 56.4	2.143	2.987	12.8	20.5
7 30	22 42.46	- 4 11.1	1.590	2.499	13.0	19.9	7 30	22 44.92	-16 17.2	2.067	2.987	9.9	20.3
8 9	22 37.36	- 4 49.8	1.522	2.487	9.1	19.6	8 9	22 38.63	-16 42.4	2.013	2.987	6.6	20.1
8 19	22 30.46	- 5 43.6	1.476	2.476	4.7	19.3	8 19	22 30.92	-17 7.9	1.985	2.987	3.4	19.9
8 29	22 22.55	- 6 47.4	1.455	2.464	1.3	19.1	8 29	22 22.54	-17 29.2	1.985	2.988	2.8	19.9
9 8	22 14.69	- 7 54.2	1.461	2.453	5.3	19.3	9 8	22 14.36	-17 42.1	2.012	2.988	5.8	20.1
9 18	22 7.91	- 8 56.7	1.493	2.442	9.9	19.5	9 18	22 7.22	-17 44.2	2.066	2.989	9.2	20.3
9 28	22 3.12	- 9 48.7	1.547	2.432	13.9	19.8	9 28	22 1.81	-17 34.2	2.143	2.990	12.2	20.5
69167	3082 <i>P-L</i>		8 27.2 316°30	2°5/29.0	18		476051	2007 <i>RQ</i> ₂₉₆		8 27.2 316°36	2°6/25.2	18	
7 20	22 50.41	- 3 27.3	1.740	2.559	16.4	18.5	7 20	22 49.85	-14 57.0	1.759	2.612	14.8	21.1
7 30	22 46.28	- 3 6.0	1.656	2.555	13.2	18.3	7 30	22 45.85	-15 25.4	1.682	2.606	11.5	20.9
8 9	22 39.83	- 2 58.5	1.592	2.550	9.4	18.1	8 9	22 39.54	-16 0.8	1.626	2.601	7.7	20.7
8 19	22 31.56	- 3 3.8	1.551	2.546	5.3	17.8	8 19	22 31.43	-16 38.2	1.594	2.597	3.8	20.4
8 29	22 22.34	- 3 19.3	1.535	2.542	2.5	17.6	8 29	22 22.43	-17 11.4	1.588	2.592	3.1	20.4
9 8	22 13.24	- 3 40.8	1.547	2.537	5.3	17.8	9 8	22 13.62	-17 34.9	1.609	2.587	6.8	20.6
9 18	22 5.31	- 4 3.6	1.584	2.534	9.4	18.0	9 18	22 6.03	-17 45.0	1.655	2.583	10.7	20.8
9 28	21 59.44	- 4 23.0	1.645	2.530	13.2	18.3	9 28	22 0.53	-17 40.0	1.724	2.579	14.2	21.0
429484	2011 <i>AU</i> ₃₀		8 27.2 191°01	0°3/27.4	17		142083	2002 <i>QK</i> ₄₇		8 27.2	3°49	7°9/22.9	18
7 20	22 51.10	- 6 46.4	1.920	2.743	14.9	22.5	7 20	22 41.60	-21 50.5	0.838	1.755	20.9	18.6
7 30	22 46.58	- 7 10.1	1.837	2.742	11.7	22.3	7 30	22 41.35	-22 42.5	0.794	1.751	16.4	18.3
8 9	22 39.90	- 7 46.7	1.774	2.741	8.0	22.1	8 9	22 37.43	-23 37.0	0.765	1.751	11.8	18.1
8 19	22 31.55	- 8 33.0	1.737	2.739	3.8	21.8	8 19	22 30.66	-24 22.1	0.755	1.753	8.3	17.9
8 29	22 22.35	- 9 24.0	1.727	2.736	0.7	21.6	8 29	22 22.61	-24 45.3	0.763	1.757	8.8	17.9
9 8	22 13.28	-10 13.8	1.744	2.733	5.1	21.9	9 8	22 15.19	-24 38.9	0.791	1.764	12.7	18.2
9 18	22 5.30	-10 57.2	1.789	2.729	9.2	22.2	9 18	22 10.00	-24 1.7	0.837	1.773	17.2	18.5
9 28	21 59.22	-11 30.1	1.858	2.725	12.8	22.4	9 28	22 8.12	-22 57.1	0.899	1.785	21.3	18.8
226812	2004 <i>RN</i> ₂₂₆		8 27.2 276°55	0°8/28.1	18		5374	Hokutosei		8 27.2 139°49	3°1/30.6	18	R
7 20	22 45.86	- 5 21.7	2.303	3.120	12.9	20.7	7 20	22 48.07	+ 1 29.5	2.634	3.408	12.6	16.9
7 30	22 42.18	- 5 37.3	2.213	3.114	10.2	20.5	7 30	22 43.58	+ 1 45.0	2.548	3.414	10.3	16.8
8 9	22 36.78	- 6 4.3	2.146	3.109	7.0	20.3	8 9	22 37.56	+ 1 48.2	2.484	3.419	7.7	16.6
8 19	22 30.07	- 6 40.4	2.104	3.104	3.5	20.1	8 19	22 30.39	+ 1 39.6	2.444	3.425	5.0	16.4
8 29	22 22.69	- 7 22.2	2.089	3.098	0.9	19.9	8 29	22 22.67	+ 1 20.8	2.433	3.430	3.2	16.3
9 8	22 15.39	- 8 5.0	2.103	3.093	4.2	20.1	9 8	22 15.07	+ 0 54.7	2.451	3.435	4.2	16.4
9 18	22 8.91	- 8 44.7	2.144	3.087	7.7	20.4	9 18	22 8.23	+ 0 24.6	2.496	3.440	6.7	16.6
9 28	22 3.91	- 9 17.4	2.210	3.082	10.9	20.5	9 28	22 2.73	- 0 5.6	2.568	3.445	9.4	16.8
131598	2001 <i>XK</i> ₆		8 27.2 183°54	12°7/14.1	17		387941	2005 <i>EE</i> ₆₆		8 27.2 105°33	8°8/19.0	16	
7 20	22 50.13	-27 16.1	1.149	2.038	18.6	19.4	7 20	22 55.61	-33 59.1	2.016	2.859	13.6	20.8
7 30	22 47.80	-31 1.8	1.104	2.038	15.3	19.2	7 30	22 50.11	-35 14.1	1.971	2.871	11.3	20.7
8 9	22 41.85	-34 49.6	1.082	2.038	13.0	19.1	8 9	22 42.19	-36 20.7	1.949	2.883	9.5	20.6
8 19	22 32.82	-38 17.2	1.083	2.038	13.0	19.1	8 19	22 32.55	-37 10.5	1.951	2.895	8.8	20.6
8 29	22 22.08	-41 3.5	1.108	2.038	15.1	19.2	8 29	22 22.23	-37 37.0	1.978	2.907	9.5	20.6
9 8	22 11.53	-42 56.3	1.154	2.037	18.2	19.4	9 8	22 12.40	-37 37.1	2.029	2.918	11.2	20.8
9 18	22 3.05	-43 53.9	1.218	2.036	21.3	19.6	9 18	22 4.09	-37 11.4	2.104	2.929	13.3	20.9
9 28	21 58.03	-44 2.4	1.295	2.035	24.0	19.8	9 28	21 58.06	-36 23.1	2.198	2.940	15.2	21.1
273652	2007 <i>DO</i> ₇₇		8 27.2 257°98	2°6/24.9	18		255183	2005 <i>UJ</i> ₂₅₆		8 27.2 277°59	0°3/26.9	18	
7 20	22 48.20	-12 29.7	1.692	2.544	15.3	20.7	7 20	22 46.04	- 8 8.7	2.189	3.019	13.1	21.5
7 30	22 44.76	-13 31.0	1.610	2.535	11.9	20.5	7 30	22 42.49	- 8 37.5	2.097	3.008	10.3	21.3
8 9	22 38.94	-14 44.6	1.548	2.525	7.9	20.2	8 9	22 37.10	- 9 17.3	2.027	2.996	6.9	21.0
8 19	22 31.21	-16 4.4	1.512	2.515	3.9	20.0	8 19	22 30.28	-10 5.0	1.982	2.985	3.2	20.8
8 29	22 22.45	-17 22.2	1.501	2.505	3.3	19.9	8 29	22 22.70	-10 56.1	1.964	2.973	0.8	20.6
9 8	22 13.77	-18 29.7	1.518	2.495	7.2	20.1	9 8	22 15.17	-11 45.2	1.975	2.962	4.7	20.8
9 18	22 6.26	-19 20.8	1.559	2.484	11.4	20.3	9 18	22 8.50	-12 27.8	2.012	2.951	8.5	21.1
9 28	22 0.86	-19 52.0	1.623	2.474	15.2	20.6	9 28	22 3.39	-13 0.2	2.074	2.939	11.8	21.2
403938	2012 <i>BS</i> ₂₀		8 27.2 98°11	2°7/29.8	18		350383	2012 <i>VM</i> ₄		8 27.2 326°58	4°7/30.2	18	
7 20	22 48.11	- 0 50.7	2.360	3.152	13.4	20.7	7 20	22 42.71	+ 0 5.1	1.308	2.148	19.6	19.7
7 30	22 43.78	- 0 38.1	2.277	3.158	10.8	20.6	7 30	22 41.28	+ 0 35.0	1.211	2.119	16.3	19.4
8 9	22 37.77	- 0 37.8	2.216	3.163	7.9	20.4	8 9	22 37.13	+ 0 44.5	1.131	2.090	12.3	19.1
8 19	22 30.50	- 0 49.1	2.180	3.169	4.8	20.2	8 19	22 30.62	+ 0 32.0	1.070	2.062	7.8	18.8
8 29	22 22.62	- 1 9.7	2.172	3.174	2.7	20.1	8 29	22 22.59	- 0 1.4	1.032	2.035	4.7	18.5
9 8	22 14.89	- 1 36.3	2.191	3.180	4.3	20.2	9 8	22 14.36	- 0 50.4	1.017	2.009	6.9	18.6
9 18	22 8.02	- 2 5.2	2.239	3.185	7.3	20.4	9 18	22 7.31	- 1 47.1	1.024	1.985	11.8	18.8
9 28	22 2.64	- 2 32.5	2.312	3.190	10.2	20.6	9 28	22 2.74	- 2 42.2	1.051	1.962	16.7	19.0
454970	2015 <i>TD</i> ₂₀₅		8 27.2 327°70	8°7/18.1	18		261651	2005 <i>YO</i> ₉₅		8 27.2 328°32	3°0/24.2	18	
7 20	22 51.09	-34 33.4	2.115	2.963	12.8	19.9	7 20	22 42.95	-13 42.6	1.803	2.664	14.2	20.4
7 30	22 46.71	-35 43.3	2.053	2.955	10.9	19.8	7 30	22 40.56	-14 48.6	1.719	2.649	10.9	20.2
8 9	22 40.02	-36 45.7	2.014	2.948	9.3	19.7	8 9	22 36.06	-16 5.7	1.656	2.635	7.3	19.9
8 19	22 31.61	-37 33.0	1.999	2.941	8.7	19.6	8 19	22 29.88	-17 27.8	1.618	2.621	3.8	19.7
8 29	22 22.39	-37 58.5	2.008	2.935	9.5	19.7	8 29	22 22.79	-18 47.1	1.607	2.608	3.7	19.7
9 8	22 13.46	-37 58.4	2.042	2.928	11.2	19.8	9 8	22 15.75	-19 55.7	1.621	2.595	7.2	19.8
9 18	22 5.82	-37 32.7	2.097	2.922	13.3	19.9	9 18	22 9.74	-20 47.8	1.661	2.583	11.0	20.1
9 28	22 0.29	-36 43.5	2.173	2.917	15.3	20.1	9 28	22 5.57	-21 20.1	1.722	2.572	14.5	20.2
83096	2001 <i>QF</i> ₂₃₄		8 27.2 322°11	0°5/27.7	18		14536	1997 <i>RY</i> ₂		8 27.2 353°			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
408752	1991 <i>TB</i> ₂		8 27.2 285°85	3°4/29.6	18		228378	2000 <i>WN</i> ₇₁		8 27.2 187°47	11°2/ 8.6	18	
7 20	23 4.07	+ 1 32.8	2.164	2.917	15.6	21.9	7 20	22 48.70	+23 2.7	2.097	2.746	18.8	20.1
7 30	22 57.45	+ 1 27.8	2.004	2.859	13.1	21.6	7 30	22 44.84	+24 5.4	2.010	2.746	17.1	19.9
8 9	22 47.96	+ 1 5.0	1.865	2.799	9.9	21.2	8 9	22 38.86	+24 42.8	1.936	2.746	15.2	19.8
8 19	22 35.76	+ 0 23.1	1.751	2.736	6.1	20.9	8 19	22 31.17	+24 50.4	1.881	2.745	13.3	19.6
8 29	22 21.43	- 0 36.7	1.668	2.670	3.4	20.6	8 29	22 22.54	+24 25.8	1.847	2.744	11.8	19.5
9 8	22 6.08	- 1 50.1	1.617	2.601	6.0	20.6	9 8	22 13.93	+23 30.2	1.835	2.743	11.2	19.5
9 18	21 51.02	- 3 10.4	1.597	2.529	10.7	20.7	9 18	22 6.29	+22 8.4	1.847	2.741	11.7	19.5
9 28	21 37.67	- 4 29.5	1.606	2.454	15.4	20.8	9 28	22 0.48	+20 28.5	1.882	2.739	13.1	19.6
107096	2001 <i>AC</i> ₃₀		8 27.2 181°96	3°4/24.5	18		389518	2010 <i>GX</i> ₁₄₄		8 27.2 294°82	5°2/23.1	18	
7 20	22 52.71	-15 22.9	1.692	2.542	15.4	19.7	7 20	22 51.73	-21 41.2	1.778	2.636	14.5	20.7
7 30	22 48.17	-16 16.0	1.620	2.543	11.9	19.5	7 30	22 47.40	-22 26.7	1.704	2.629	11.3	20.5
8 9	22 41.15	-17 17.3	1.569	2.544	8.0	19.3	8 9	22 40.63	-23 14.3	1.652	2.623	8.0	20.2
8 19	22 32.21	-18 20.2	1.542	2.544	4.3	19.0	8 19	22 31.97	-23 56.9	1.623	2.616	5.5	20.1
8 29	22 22.31	-19 16.8	1.543	2.543	4.0	19.0	8 29	22 22.39	-24 27.4	1.621	2.609	5.8	20.1
9 8	22 12.65	-20 0.3	1.570	2.542	7.6	19.2	9 8	22 13.04	-24 40.5	1.645	2.602	8.7	20.2
9 18	22 4.34	-20 26.3	1.622	2.540	11.5	19.5	9 18	22 5.01	-24 33.8	1.693	2.596	12.1	20.4
9 28	21 58.28	-20 33.3	1.696	2.538	15.0	19.7	9 28	21 59.17	-24 7.6	1.763	2.589	15.2	20.6
169877	2002 <i>RC</i> ₁₂₉		8 27.2 285°41	1°3/26.3	18		301154	2008 <i>YD</i> ₁₆		8 27.2 29°32	5°9/31.4	18	
7 20	22 55.34	-13 39.4	2.008	2.839	14.1	19.3	7 20	22 49.09	+ 2 51.2	1.383	2.197	20.1	19.7
7 30	22 50.10	-13 36.4	1.899	2.811	11.1	19.0	7 30	22 45.57	+ 3 44.0	1.325	2.212	16.6	19.5
8 9	22 42.48	-13 38.5	1.812	2.783	7.5	18.8	8 9	22 39.46	+ 4 15.3	1.285	2.227	12.7	19.3
8 19	22 32.89	-13 42.7	1.751	2.754	3.5	18.5	8 19	22 31.42	+ 4 23.8	1.264	2.244	8.7	19.2
8 29	22 22.14	-13 44.8	1.717	2.724	1.8	18.3	8 29	22 22.52	+ 4 11.1	1.268	2.261	6.1	19.1
9 8	22 11.29	-13 40.9	1.711	2.695	5.8	18.5	9 8	22 14.02	+ 3 42.0	1.295	2.280	7.1	19.2
9 18	22 1.44	-13 28.3	1.733	2.665	10.0	18.7	9 18	22 7.03	+ 3 3.4	1.346	2.299	10.4	19.4
9 28	21 53.56	-13 5.5	1.780	2.635	13.8	18.8	9 28	22 2.42	+ 2 22.7	1.419	2.319	14.0	19.7
282708	2006 <i>BC</i> ₁₂₂		8 27.2 66°95	0°2/27.0	16		475423	2006 <i>KH</i> ₁₀₀		8 27.2 105°39	5°3/ 1.7	18	
7 20	22 46.61	- 6 4.0	1.656	2.494	16.2	21.2	7 20	22 49.75	+ 7 40.6	2.121	2.874	15.9	21.1
7 30	22 43.30	- 6 57.3	1.591	2.506	12.6	21.0	7 30	22 45.20	+ 7 55.2	2.050	2.893	13.3	20.9
8 9	22 37.77	- 8 7.1	1.547	2.519	8.4	20.7	8 9	22 38.79	+ 7 50.5	1.997	2.912	10.4	20.8
8 19	22 30.60	- 9 28.0	1.527	2.531	3.8	20.5	8 19	22 31.02	+ 7 26.2	1.968	2.930	7.5	20.6
8 29	22 22.67	-10 52.7	1.534	2.543	1.0	20.3	8 29	22 22.62	+ 6 44.2	1.965	2.948	5.5	20.6
9 8	22 15.01	-12 12.9	1.567	2.556	5.6	20.7	9 8	22 14.46	+ 5 49.0	1.989	2.965	5.8	20.6
9 18	22 8.59	-13 21.6	1.626	2.568	9.8	20.9	9 18	22 7.32	+ 4 46.0	2.040	2.982	8.1	20.8
9 28	22 4.18	-14 14.3	1.709	2.581	13.5	21.2	9 28	22 1.88	+ 3 41.7	2.116	2.999	10.8	21.0
313934	2004 <i>RL</i> ₉₅		8 27.2 353°19	2°4/29.0	18		100924	Luctuymans		8 27.2 22°09	1°8/28.4	17	
7 20	22 48.79	- 4 4.4	1.809	2.631	15.8	20.3	7 20	22 45.36	- 4 28.3	1.030	1.899	21.7	19.1
7 30	22 44.92	- 3 36.5	1.726	2.627	12.6	20.1	7 30	22 43.42	- 4 28.2	0.979	1.908	17.2	18.9
8 9	22 38.87	- 3 20.7	1.664	2.624	9.0	19.9	8 9	22 38.40	- 4 50.3	0.944	1.919	11.9	18.6
8 19	22 31.14	- 3 16.5	1.626	2.621	5.1	19.7	8 19	22 31.04	- 5 31.2	0.929	1.931	6.1	18.3
8 29	22 22.54	- 3 21.5	1.613	2.619	2.4	19.5	8 29	22 22.62	- 6 23.8	0.935	1.944	1.8	18.1
9 8	22 14.10	- 3 32.1	1.627	2.618	5.1	19.7	9 8	22 14.70	- 7 18.5	0.964	1.958	6.7	18.5
9 18	22 6.77	- 3 44.5	1.667	2.617	9.0	19.9	9 18	22 8.63	- 8 6.5	1.014	1.974	12.0	18.8
9 28	22 1.37	- 3 54.5	1.731	2.617	12.6	20.1	9 28	22 5.39	- 8 41.2	1.085	1.991	16.7	19.2
374755	2006 <i>ST</i> ₂₃₃		8 27.2 263°94	4°1/30.5	17		97949	2000 <i>QN</i> ₁₂₇		8 27.2 349°76	3°2/29.7	18	
7 20	22 47.91	+ 2 13.9	1.570	2.378	18.4	21.6	7 20	22 32.52	+ 0 10.0	0.861	1.747	23.4	18.0
7 30	22 44.68	+ 2 15.6	1.483	2.371	15.1	21.4	7 30	22 34.02	- 0 4.3	0.796	1.733	19.1	17.7
8 9	22 38.99	+ 1 55.1	1.415	2.363	11.3	21.1	8 9	22 32.54	- 0 54.0	0.745	1.721	13.9	17.3
8 19	22 31.30	+ 1 12.6	1.368	2.356	7.1	20.9	8 19	22 28.54	- 2 18.2	0.711	1.711	8.0	17.0
8 29	22 22.50	+ 0 11.5	1.346	2.348	4.2	20.7	8 29	22 23.13	- 4 9.1	0.696	1.704	3.3	16.7
9 8	22 13.76	- 1 1.7	1.350	2.340	6.0	20.8	9 8	22 17.88	- 6 11.4	0.701	1.699	7.2	16.9
9 18	22 6.21	- 2 18.7	1.379	2.332	10.1	21.0	9 18	22 14.32	- 8 8.2	0.725	1.697	13.3	17.2
9 28	22 0.84	- 3 30.9	1.431	2.325	14.3	21.2	9 28	22 13.70	- 9 44.5	0.767	1.697	18.9	17.5
23572	1995 <i>AS</i> ₂		8 27.2 252°19	2°6/29.8	18		381766	2009 <i>SY</i> ₂₇₅		8 27.2 357°39	1°5/26.2	13 C	
7 20	22 47.19	- 0 49.8	2.366	3.159	13.3	19.1	7 20	22 42.67	-10 1.9	1.074	1.958	19.9	21.0
7 30	22 43.16	- 0 41.1	2.276	3.157	10.8	19.0	7 30	22 41.46	-10 32.6	1.011	1.953	15.5	20.7
8 9	22 37.42	- 0 45.0	2.207	3.155	7.8	18.8	8 9	22 37.23	-11 20.8	0.966	1.949	10.3	20.4
8 19	22 30.40	- 1 0.6	2.164	3.152	4.7	18.6	8 19	22 30.58	-12 20.4	0.941	1.947	4.7	20.1
8 29	22 22.72	- 1 25.8	2.147	3.150	2.6	18.4	8 29	22 22.71	-13 22.1	0.938	1.946	2.3	20.0
9 8	22 15.12	- 1 56.9	2.159	3.148	4.3	18.5	9 8	22 15.14	-14 15.5	0.957	1.947	7.8	20.3
9 18	22 8.34	- 2 30.2	2.198	3.145	7.3	18.7	9 18	22 9.27	-14 52.9	0.997	1.949	13.3	20.6
9 28	22 3.02	- 3 1.6	2.263	3.143	10.3	18.9	9 28	22 6.19	-15 9.6	1.057	1.953	18.0	20.9
198261	2004 <i>TJ</i> ₂₄₃		8 27.2 245°49	0°6/26.8	18		376215	2011 <i>DK</i> ₄₂		8 27.2 258°53	1°4/26.1	18	
7 20	22 50.16	- 9 33.1	1.947	2.779	14.4	21.3	7 20	22 49.90	-10 8.2	1.751	2.593	15.4	21.4
7 30	22 45.94	- 9 54.5	1.857	2.769	11.3	21.1	7 30	22 46.10	-10 48.9	1.658	2.576	12.0	21.2
8 9	22 39.56	-10 26.6	1.788	2.758	7.6	20.8	8 9	22 39.90	-11 42.9	1.585	2.559	8.1	20.9
8 19	22 31.48	-11 5.8	1.744	2.748	3.4	20.5	8 19	22 31.74	-12 45.7	1.537	2.541	3.7	20.6
8 29	22 22.48	-11 47.3	1.727	2.736	1.2	20.3	8 29	22 22.46	-13 50.4	1.516	2.523	2.0	20.4
9 8	22 13.55	-12 25.5	1.739	2.725	5.4	20.6	9 8	22 13.15	-14 49.7	1.521	2.505	6.4	20.7
9 18	22 5.65	-12 55.7	1.776	2.713	9.5	20.8	9 18	22 4.93	-15 37.3	1.552	2.486	10.8	20.9
9 28	21 59.62	-13 14.7	1.838	2.701	13.1	21.0	9 28	21 58.78	-16 9.0	1.606	2.467	14.8	21.1
441360	2008 <i>DV</i> ₇₅		8 27.2 42°27	1°4/26.1	18		63271	2001 <i>CN</i> ₃₄					

EPHEMERIDES

8 27.2

8 27.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
227324	2005 <i>TK</i> ₁₃₇		8 27.2 271°84	0°6/26.7	18		62428	2000 <i>SM</i> ₁₈₇		8 27.3 36°05	0°3/27.5	18	
7 20	22 48.82	- 8 33.0	1.690	2.531	15.9	21.4	7 20	22 47.18	- 6 19.0	1.453	2.300	17.7	19.3
7 30	22 45.31	- 9 4.8	1.598	2.515	12.5	21.2	7 30	22 44.08	- 6 46.3	1.388	2.307	13.8	19.1
8 9	22 39.39	- 9 50.8	1.527	2.500	8.4	20.9	8 9	22 38.50	- 7 30.4	1.343	2.315	9.4	18.9
8 19	22 31.51	-10 47.2	1.480	2.484	3.8	20.6	8 19	22 31.04	- 8 26.9	1.321	2.324	4.4	18.6
8 29	22 22.51	-11 47.8	1.459	2.468	1.3	20.4	8 29	22 22.69	- 9 29.0	1.323	2.333	0.8	18.4
9 8	22 13.51	-12 45.2	1.464	2.452	6.1	20.6	9 8	22 14.64	-10 28.7	1.351	2.342	5.9	18.8
9 18	22 5.64	-13 33.0	1.495	2.436	10.7	20.9	9 18	22 8.00	-11 19.4	1.404	2.352	10.5	19.1
9 28	21 59.86	-14 6.5	1.549	2.419	14.8	21.1	9 28	22 3.63	-11 56.0	1.479	2.362	14.5	19.3
175299	2005 <i>LR</i> ₄₂		8 27.2 154°87	0°9/28.1	17		339218	2004 <i>TH</i> ₂₉₉		8 27.3 309°26	1°5/28.2	16	
7 20	22 51.61	- 4 30.9	1.853	2.669	15.6	21.2	7 20	22 48.98	- 6 1.9	1.503	2.343	17.5	21.5
7 30	22 46.99	- 4 56.9	1.777	2.677	12.4	21.0	7 30	22 46.04	- 5 50.9	1.393	2.307	14.2	21.1
8 9	22 40.20	- 5 38.1	1.721	2.684	8.5	20.8	8 9	22 40.33	- 5 54.2	1.302	2.270	10.0	20.8
8 19	22 31.75	- 6 31.2	1.690	2.690	4.2	20.6	8 19	22 32.17	- 6 10.7	1.233	2.234	5.2	20.4
8 29	22 22.49	- 7 30.9	1.687	2.696	1.0	20.3	8 29	22 22.39	- 6 37.1	1.188	2.197	1.6	20.1
9 8	22 13.44	- 8 30.9	1.711	2.701	5.0	20.6	9 8	22 12.25	- 7 7.7	1.168	2.161	6.3	20.3
9 18	22 5.55	- 9 25.4	1.762	2.705	9.1	20.9	9 18	22 3.14	- 7 36.4	1.173	2.125	11.7	20.5
9 28	21 59.63	-10 9.5	1.838	2.709	12.8	21.1	9 28	21 56.38	- 7 57.3	1.199	2.089	16.7	20.7
346995	2010 <i>CW</i> ₁₆₆		8 27.3 152°32	0°3/27.5	17		51463	2001 <i>FJ</i> ₄₇		8 27.3 74°53	0°5/27.7	18	
7 20	22 48.64	- 6 0.3	2.191	3.008	13.5	22.3	7 20	22 50.78	- 5 28.7	1.439	2.278	18.2	19.0
7 30	22 44.36	- 6 34.2	2.113	3.015	10.6	22.1	7 30	22 46.76	- 5 59.0	1.384	2.297	14.2	18.8
8 9	22 38.27	- 7 20.3	2.056	3.021	7.2	21.9	8 9	22 40.19	- 6 46.6	1.347	2.317	9.6	18.6
8 19	22 30.81	- 8 15.3	2.026	3.027	3.4	21.7	8 19	22 31.77	- 7 46.9	1.333	2.336	4.6	18.4
8 29	22 22.70	- 9 14.5	2.023	3.033	0.6	21.5	8 29	22 22.56	- 8 52.6	1.345	2.355	0.9	18.1
9 8	22 14.75	-10 12.3	2.050	3.038	4.5	21.8	9 8	22 13.79	- 9 55.6	1.383	2.374	5.8	18.5
9 18	22 7.74	-11 4.0	2.103	3.043	8.1	22.0	9 18	22 6.55	-10 49.3	1.446	2.392	10.4	18.9
9 28	22 2.35	-11 45.7	2.183	3.047	11.3	22.2	9 28	22 1.68	-11 28.8	1.531	2.411	14.3	19.1
13787	Nagaishi		8 27.3 267°92	0°8/26.4	18		380826	2005 <i>YP</i> ₂₁₉		8 27.3 225°56	3°8/24.1	18	
7 20	22 45.80	-10 7.4	2.478	3.307	11.8	18.6	7 20	22 54.38	-19 6.3	2.049	2.891	13.4	21.5
7 30	22 42.09	-10 38.0	2.383	3.295	9.1	18.4	7 30	22 49.16	-19 42.1	1.964	2.882	10.5	21.3
8 9	22 36.74	-11 17.2	2.312	3.283	6.1	18.2	8 9	22 41.69	-20 21.3	1.902	2.872	7.2	21.1
8 19	22 30.13	-12 1.8	2.267	3.270	2.7	17.9	8 19	22 32.49	-20 58.2	1.865	2.862	4.3	20.9
8 29	22 22.84	-12 47.7	2.249	3.258	1.2	17.8	8 29	22 22.39	-21 27.0	1.856	2.851	4.3	20.9
9 8	22 15.59	-13 30.4	2.261	3.245	4.5	18.0	9 8	22 12.43	-21 42.7	1.875	2.840	7.2	21.1
9 18	22 9.10	-14 6.0	2.300	3.232	7.9	18.2	9 18	22 3.61	-21 42.8	1.921	2.829	10.6	21.2
9 28	22 3.99	-14 31.7	2.364	3.220	10.8	18.4	9 28	21 56.76	-21 26.8	1.989	2.816	13.7	21.4
473308	2015 <i>RM</i> ₈₉		8 27.3 276°34	2°5/25.1	17		6211	Tsubame		8 27.3 97°58	0°2/27.1	18	
7 20	22 55.34	-18 17.4	2.507	3.335	11.7	21.2	7 20	22 51.82	- 9 26.1	1.957	2.785	14.5	17.6
7 30	22 49.54	-18 22.6	2.401	3.312	9.1	21.0	7 30	22 46.98	- 9 31.3	1.885	2.795	11.3	17.4
8 9	22 41.77	-18 29.3	2.319	3.287	6.2	20.8	8 9	22 40.09	- 9 45.6	1.836	2.804	7.6	17.2
8 19	22 32.47	-18 33.9	2.264	3.263	3.4	20.6	8 19	22 31.68	-10 6.0	1.811	2.814	3.5	17.0
8 29	22 22.34	-18 32.7	2.238	3.238	2.9	20.5	8 29	22 22.57	-10 28.3	1.814	2.823	0.8	16.8
9 8	22 12.22	-18 22.5	2.241	3.213	5.7	20.6	9 8	22 13.75	-10 48.2	1.844	2.832	5.0	17.1
9 18	22 2.99	-18 1.7	2.273	3.188	8.9	20.8	9 18	22 6.08	-11 2.3	1.902	2.841	8.8	17.4
9 28	21 55.39	-17 29.9	2.331	3.162	11.8	21.0	9 28	22 0.29	-11 7.9	1.984	2.850	12.2	17.6
511069	2013 <i>TC</i> ₂₅		8 27.3 282°79	12°8/ 7.2	18		480585	2015 <i>MT</i> ₈₁		8 27.3 346°65	2°9/29.9	18	
7 20	22 49.22	+20 6.1	1.654	2.351	21.6	21.0	7 20	22 46.73	- 0 4.6	1.943	2.747	15.4	21.5
7 30	22 45.85	+21 34.3	1.570	2.346	19.6	20.8	7 30	22 43.20	- 0 6.7	1.859	2.746	12.5	21.3
8 9	22 39.90	+22 35.3	1.501	2.342	17.4	20.6	8 9	22 37.68	- 0 25.4	1.795	2.746	9.1	21.1
8 19	22 31.80	+23 2.9	1.448	2.337	15.1	20.5	8 19	22 30.62	- 0 59.5	1.755	2.745	5.4	20.9
8 29	22 22.46	+22 52.9	1.416	2.333	13.4	20.4	8 29	22 22.78	- 1 45.7	1.741	2.745	2.9	20.7
9 8	22 13.06	+22 5.9	1.405	2.328	12.8	20.3	9 8	22 15.06	- 2 38.8	1.754	2.744	4.8	20.8
9 18	22 4.86	+20 47.4	1.415	2.324	13.6	20.4	9 18	22 8.33	- 3 33.2	1.794	2.744	8.4	21.0
9 28	21 58.92	+19 7.5	1.448	2.319	15.5	20.5	9 28	22 3.35	- 4 23.1	1.858	2.744	11.9	21.3
66943	1999 <i>WF</i> ₁₇		8 27.3 299°15	2°7/25.1	18		521502	2015 <i>OU</i> ₉₅		8 27.3 63°20	1°1/28.3	18	
7 20	22 48.59	-14 10.1	1.673	2.529	15.3	19.1	7 20	22 48.96	- 5 43.3	2.113	2.930	13.9	21.3
7 30	22 45.25	-14 47.2	1.580	2.507	11.9	18.8	7 30	22 44.66	- 5 40.8	2.036	2.937	11.0	21.1
8 9	22 39.43	-15 34.2	1.508	2.485	8.0	18.5	8 9	22 38.49	- 5 49.2	1.981	2.943	7.6	20.9
8 19	22 31.57	-16 25.6	1.460	2.464	4.0	18.2	8 19	22 30.94	- 6 6.4	1.951	2.950	3.9	20.7
8 29	22 22.53	-17 14.3	1.438	2.442	3.3	18.2	8 29	22 22.73	- 6 29.3	1.948	2.957	1.2	20.5
9 8	22 13.48	-17 53.4	1.442	2.421	7.3	18.3	9 8	22 14.72	- 6 53.8	1.973	2.963	4.4	20.7
9 18	22 5.57	-18 17.5	1.470	2.400	11.7	18.6	9 18	22 7.71	- 7 16.1	2.025	2.970	8.0	21.0
9 28	21 59.83	-18 23.8	1.520	2.379	15.6	18.7	9 28	22 2.37	- 7 32.9	2.103	2.977	11.2	21.2
503196	2015 <i>HA</i> ₉		8 27.3 167°41	9°1/17.7	17		382136	2011 <i>KN</i> ₂₁		8 27.3 135°27	8°4/ 5.3	18	
7 20	22 59.74	-36 48.3	2.269	3.095	12.8	22.2	7 20	22 48.23	+16 3.4	2.032	2.738	17.8	20.5
7 30	22 53.28	-38 13.9	2.218	3.102	10.9	22.1	7 30	22 44.35	+16 34.4	1.950	2.746	15.7	20.3
8 9	22 44.37	-39 30.4	2.191	3.107	9.5	22.0	8 9	22 38.44	+16 40.9	1.885	2.753	13.2	20.1
8 19	22 33.65	-40 29.3	2.188	3.112	9.1	22.0	8 19	22 30.98	+16 20.5	1.840	2.760	10.7	20.0
8 29	22 22.13	-41 3.9	2.211	3.116	9.8	22.0	8 29	22 22.72	+15 33.1	1.818	2.767	8.9	19.9
9 8	22 11.01	-41 10.9	2.259	3.118	11.4	22.1	9 8	22 14.59	+14 22.2	1.822	2.773	8.5	19.9
9 18	22 1.35	-40 51.0	2.330	3.120	13.2	22.3	9 18	22 7.48	+12 54.3	1.851	2.779	9.7	20.0
9 28	21 53.98	-40 7.3	2.420	3.122	15.0	22.4	9 28	22 2.14	+11 17.8	1.904	2.785	11.9	20.1
209252	2003 <i>WR</i> ₁₄₆		8 27.3 269°64	1°1/26.1	18		131792	2002 <i>AC</i> ₄₁		8 27.3 221°44	0°7/27		

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
5452	1937 <i>NN</i>		8 27.3	56°10	3°5/29.3	18 R	169822	2002 <i>QV₅₈</i>		8 27.3	348°65	2°7/29.6	18
7 20	22 55.60	- 2 25.5	1.120	1.960	22.2	15.7	7 20	22 45.85	- 0 50.1	1.710	2.528	16.7	20.4
7 30	22 50.96	- 1 56.5	1.075	1.985	17.8	15.5	7 30	22 42.81	- 0 55.8	1.629	2.526	13.5	20.1
8 9	22 43.19	- 1 48.9	1.048	2.010	12.6	15.3	8 9	22 37.59	- 1 19.7	1.567	2.523	9.7	19.9
8 19	22 33.17	- 2 1.2	1.040	2.036	7.2	15.1	8 19	22 30.65	- 2 0.5	1.528	2.521	5.6	19.7
8 29	22 22.32	- 2 28.6	1.056	2.062	3.5	14.9	8 29	22 22.83	- 2 54.0	1.514	2.520	2.7	19.5
9 8	22 12.21	- 3 3.8	1.096	2.088	6.6	15.2	9 8	22 15.14	- 3 54.2	1.527	2.519	5.1	19.7
9 18	22 4.18	- 3 39.3	1.159	2.115	11.4	15.6	9 18	22 8.55	- 4 54.3	1.565	2.518	9.2	19.9
9 28	21 59.11	- 4 8.6	1.244	2.141	15.7	15.9	9 28	22 3.90	- 5 47.8	1.626	2.517	13.0	20.1
421614	2014 <i>OH₂₄₄</i>		8 27.3	333°55	4°1/22.8	18	280935	2006 <i>BC₅₀</i>		8 27.3	62°01	0°9/26.6	16
7 20	22 45.33	-18 46.8	2.102	2.959	12.6	20.5	7 20	22 51.90	-10 21.4	1.563	2.408	16.7	20.9
7 30	22 42.07	-19 53.4	2.027	2.954	9.7	20.3	7 30	22 47.43	-10 39.7	1.507	2.427	12.9	20.7
8 9	22 36.90	-21 4.9	1.976	2.950	6.7	20.1	8 9	22 40.55	-11 8.8	1.472	2.445	8.6	20.5
8 19	22 30.27	-22 15.1	1.950	2.946	4.4	20.0	8 19	22 31.93	-11 44.0	1.460	2.464	3.8	20.2
8 29	22 22.90	-23 17.3	1.952	2.942	4.8	20.0	8 29	22 22.59	-12 19.5	1.474	2.483	1.4	20.1
9 8	22 15.66	-24 5.6	1.980	2.938	7.4	20.2	9 8	22 13.72	-12 49.4	1.515	2.502	5.9	20.5
9 18	22 9.40	-24 36.5	2.033	2.934	10.4	20.3	9 18	22 6.32	-13 9.4	1.581	2.521	10.2	20.8
9 28	22 4.82	-24 48.7	2.109	2.931	13.2	20.5	9 28	22 1.18	-13 17.1	1.670	2.540	13.8	21.0
19896	5366 <i>T-2</i>		8 27.3	88°76	3°7/31.0	18	121645	1999 <i>WQ₇</i>		8 27.3	213°41	0°2/27.0	18
7 20	22 46.82	+ 2 50.6	2.232	3.013	14.4	19.2	7 20	22 46.15	- 8 19.1	2.834	3.650	10.8	20.7
7 30	22 42.96	+ 2 59.1	2.150	3.019	11.8	19.0	7 30	22 42.12	- 8 48.0	2.741	3.644	8.4	20.5
8 9	22 37.35	+ 2 51.9	2.088	3.024	8.9	18.8	8 9	22 36.65	- 9 25.2	2.671	3.637	5.6	20.3
8 19	22 30.43	+ 2 29.4	2.050	3.030	5.9	18.6	8 19	22 30.09	-10 8.2	2.627	3.630	2.6	20.1
8 29	22 22.87	+ 1 53.9	2.039	3.036	3.8	18.5	8 29	22 22.97	-10 53.3	2.613	3.623	0.7	19.9
9 8	22 15.44	+ 1 9.3	2.055	3.041	4.8	18.6	9 8	22 15.90	-11 36.8	2.629	3.615	3.8	20.1
9 18	22 8.89	+ 0 20.4	2.099	3.047	7.6	18.8	9 18	22 9.50	-12 15.3	2.672	3.607	6.8	20.3
9 28	22 3.88	- 0 27.6	2.168	3.052	10.5	19.0	9 28	22 4.30	-12 45.8	2.742	3.598	9.5	20.5
221917	<i>Opites</i>		8 27.3	289°59	0°7/28.5	16	43463	2001 <i>AN₅</i>		8 27.3	104°44	3°8/30.0	18 R
7 20	22 43.12	- 5 57.5	4.383	5.177	7.6	20.0	7 20	22 51.95	+ 0 5.7	1.537	2.349	18.5	19.1
7 30	22 39.22	- 5 51.5	4.284	5.171	6.0	19.9	7 30	22 47.71	+ 0 22.1	1.466	2.357	15.1	18.9
8 9	22 34.42	- 5 50.6	4.209	5.165	4.2	19.8	8 9	22 40.93	+ 0 19.4	1.413	2.364	11.0	18.7
8 19	22 28.96	- 5 53.7	4.163	5.160	2.2	19.6	8 19	22 32.20	- 0 1.9	1.382	2.372	6.7	18.5
8 29	22 23.19	- 5 59.5	4.146	5.154	0.8	19.5	8 29	22 22.52	- 0 38.5	1.377	2.379	3.8	18.3
9 8	22 17.46	- 6 6.4	4.159	5.148	2.4	19.6	9 8	22 13.11	- 1 24.5	1.397	2.387	5.9	18.5
9 18	22 12.13	- 6 13.0	4.202	5.142	4.4	19.8	9 18	22 5.08	- 2 13.2	1.442	2.394	10.0	18.7
9 28	22 7.56	- 6 17.6	4.273	5.137	6.2	19.9	9 28	21 59.37	- 2 57.9	1.511	2.401	13.9	19.0
442885	2013 <i>BU₄₃</i>		8 27.3	219°09	1°6/25.8	18	66498	1999 <i>RR₆₇</i>		8 27.3	300°02	3°8/30.9	18
7 20	22 47.85	-11 52.4	2.046	2.886	13.5	22.0	7 20	22 44.44	+ 3 34.0	1.727	2.528	17.2	19.6
7 30	22 43.98	-12 29.1	1.967	2.885	10.4	21.8	7 30	22 41.80	+ 3 16.8	1.635	2.518	14.2	19.4
8 9	22 38.15	-13 14.7	1.911	2.884	6.9	21.6	8 9	22 36.99	+ 2 36.4	1.562	2.507	10.7	19.1
8 19	22 30.83	-14 4.8	1.880	2.883	3.2	21.4	8 19	22 30.43	+ 1 33.4	1.511	2.497	6.8	18.9
8 29	22 22.78	-14 54.0	1.876	2.882	2.0	21.3	8 29	22 22.88	+ 0 11.5	1.485	2.487	3.9	18.7
9 8	22 14.88	-15 36.7	1.900	2.881	5.6	21.5	9 8	22 15.36	- 1 22.0	1.486	2.477	5.5	18.8
9 18	22 7.99	-16 8.8	1.950	2.880	9.2	21.8	9 18	22 8.86	- 2 58.5	1.512	2.467	9.3	19.0
9 28	22 2.82	-16 27.7	2.024	2.879	12.4	22.0	9 28	22 4.27	- 4 29.3	1.563	2.457	13.2	19.2
329349	2001 <i>RK₁₁₆</i>		8 27.3	8°98	1°9/25.5	18	38037	1998 <i>RS₁₈</i>		8 27.3	34°50	0°7/26.7	18
7 20	22 47.06	-14 28.7	2.175	3.020	12.7	20.7	7 20	22 48.28	-10 39.4	1.875	2.717	14.5	19.1
7 30	22 43.20	-14 49.2	2.100	3.021	9.7	20.5	7 30	22 44.35	-10 52.4	1.809	2.727	11.2	18.9
8 9	22 37.53	-15 15.2	2.048	3.023	6.5	20.4	8 9	22 38.38	-11 14.2	1.765	2.737	7.5	18.7
8 19	22 30.51	-15 42.7	2.022	3.025	3.1	20.1	8 19	22 30.93	-11 41.3	1.744	2.748	3.4	18.4
8 29	22 22.86	-16 7.5	2.023	3.028	2.3	20.1	8 29	22 22.81	-12 9.0	1.751	2.760	1.2	18.3
9 8	22 15.41	-16 25.3	2.051	3.030	5.4	20.3	9 8	22 14.99	-12 32.5	1.784	2.771	5.2	18.6
9 18	22 8.93	-16 33.5	2.106	3.034	8.7	20.5	9 18	22 8.31	-12 48.4	1.844	2.783	9.0	18.9
9 28	22 4.07	-16 30.4	2.185	3.038	11.7	20.7	9 28	22 3.49	-12 54.1	1.927	2.796	12.4	19.1
390949	2005 <i>JO₁₇₁</i>		8 27.3	20°64	3°2/24.5	18	186766	2004 <i>DG</i>		8 27.3	195°67	4°0/30.5	18
7 20	22 48.96	-16 9.7	1.793	2.648	14.5	20.8	7 20	22 51.81	+ 1 46.4	1.875	2.664	16.5	20.6
7 30	22 45.11	-16 52.0	1.724	2.650	11.2	20.6	7 30	22 47.28	+ 2 2.5	1.787	2.662	13.6	20.4
8 9	22 39.03	-17 40.7	1.676	2.652	7.5	20.4	8 9	22 40.52	+ 2 1.4	1.719	2.660	10.1	20.2
8 19	22 31.27	-18 29.8	1.652	2.654	4.1	20.2	8 19	22 32.01	+ 1 43.0	1.674	2.657	6.5	19.9
8 29	22 22.70	-19 12.9	1.656	2.656	3.8	20.2	8 29	22 22.57	+ 1 9.6	1.655	2.654	4.1	19.8
9 8	22 14.39	-19 44.0	1.685	2.658	7.1	20.4	9 8	22 13.20	+ 0 25.6	1.664	2.651	5.5	19.9
9 18	22 7.29	-19 59.9	1.740	2.661	10.7	20.6	9 18	22 4.93	- 0 23.3	1.699	2.646	9.0	20.1
9 28	22 2.21	-19 59.0	1.817	2.663	14.0	20.8	9 28	21 58.59	- 1 11.0	1.758	2.642	12.6	20.3
346643	2008 <i>XV₁₄</i>		8 27.3	3°94	6°3/22.9	18	38050	1998 <i>VR₃₈</i>		8 27.3	285°27	6°1/10.1	18
7 20	22 46.28	-20 30.4	1.221	2.108	17.8	19.8	7 20	22 39.91	+25 24.2	4.565	5.141	9.9	17.4
7 30	22 44.03	-21 29.6	1.165	2.107	13.8	19.5	7 30	22 36.89	+25 46.0	4.459	5.135	9.1	17.3
8 9	22 38.80	-22 33.2	1.128	2.107	9.7	19.3	8 9	22 32.95	+25 54.2	4.370	5.130	8.1	17.2
8 19	22 31.29	-23 31.6	1.112	2.109	6.6	19.2	8 19	22 28.34	+25 47.5	4.302	5.124	7.2	17.1
8 29	22 22.70	-24 14.6	1.120	2.112	7.1	19.2	8 29	22 23.36	+25 25.7	4.256	5.118	6.5	17.1
9 8	22 14.53	-24 34.6	1.150	2.116	10.6	19.4	9 8	22 18.40	+24 49.7	4.235	5.112	6.1	17.1
9 18	22 8.11	-24 28.9	1.201	2.121	14.6	19.6	9 18	22 13.84	+24 1.3	4.240	5.106	6.3	17.1
9 28	22 4.41	-23 58.3	1.272	2.127	18.2	19.9	9 28	22 10.01	+23 3.3	4.270	5.101	6.9	17.1
41619	2000 <i>SM₁₅₃</i>		8 27.3	258°09	1°1/26.5	18	316274	2010 <i>PH₄₉</i>		8 27.3	226°80	4°3/22.5	18

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
119919	2002 <i>EG</i> ₈₅		8 27.3 102°87'	0°9/26.3	18		304166	2006 <i>PL</i> ₁₅		8 27.3 332°34'	0°8/27.9	18	
7 20	22 47.29	-10 21.8	2.333	3.163	12.4	20.7	7 20	22 47.46	-6 38.9	1.709	2.546	15.9	20.6
7 30	22 43.20	-10 55.3	2.262	3.174	9.5	20.5	7 30	22 44.12	-6 43.1	1.626	2.539	12.6	20.3
8 9	22 37.45	-11 36.9	2.213	3.184	6.3	20.3	8 9	22 38.52	-7 0.6	1.563	2.532	8.6	20.1
8 19	22 30.47	-12 23.2	2.191	3.194	2.8	20.1	8 19	22 31.13	-7 28.7	1.523	2.525	4.2	19.8
8 29	22 22.93	-13 9.6	2.196	3.204	1.3	20.0	8 29	22 22.81	-8 3.1	1.509	2.519	0.9	19.5
9 8	22 15.59	-13 51.4	2.231	3.214	4.6	20.3	9 8	22 14.61	-8 38.3	1.522	2.513	5.3	19.8
9 18	22 9.15	-14 25.0	2.292	3.224	7.9	20.5	9 18	22 7.54	-9 9.0	1.559	2.507	9.6	20.1
9 28	22 4.21	-14 48.0	2.379	3.234	10.8	20.7	9 28	22 2.47	-9 30.8	1.620	2.503	13.5	20.3
483223	2015 <i>RT</i> ₄₄		8 27.3 268°00'	2°9/30.7	18		306695	2000 <i>VL</i> ₁		8 27.3 178°76'	8°1/14.5	18	R
7 20	22 44.04	+3 5.1	2.377	3.158	13.6	21.7	7 20	22 55.65	-39 48.9	3.044	3.856	10.2	21.4
7 30	22 40.88	+2 37.1	2.273	3.144	11.2	21.5	7 30	22 49.81	-41 31.0	2.994	3.859	9.0	21.3
8 9	22 36.05	+1 51.4	2.189	3.130	8.3	21.3	8 9	22 41.98	-43 4.7	2.970	3.861	8.2	21.3
8 19	22 29.91	+0 49.0	2.131	3.115	5.2	21.0	8 19	22 32.63	-44 23.3	2.971	3.862	8.1	21.3
8 29	22 23.04	-0 26.8	2.099	3.100	3.0	20.9	8 29	22 22.51	-45 21.3	2.999	3.862	8.8	21.3
9 8	22 16.17	-1 51.0	2.096	3.086	4.3	20.9	9 8	22 12.50	-45 55.7	3.052	3.861	10.0	21.4
9 18	22 10.01	-3 17.3	2.121	3.071	7.4	21.1	9 18	22 3.46	-46 6.1	3.128	3.859	11.4	21.5
9 28	22 5.23	-4 39.6	2.173	3.056	10.6	21.3	9 28	21 56.14	-45 54.4	3.222	3.857	12.6	21.6
447384	2006 <i>BX</i> ₂₀		8 27.3 329°87'	1°1/26.2	18		274845	2009 <i>QB</i> ₃₈		8 27.3 327°45'	3°0/24.6	18	
7 20	22 43.89	-9 32.9	1.975	2.818	13.8	20.6	7 20	22 46.23	-15 59.2	1.938	2.793	13.5	20.4
7 30	22 41.07	-10 16.1	1.889	2.809	10.7	20.4	7 30	22 42.98	-16 36.8	1.854	2.781	10.5	20.2
8 9	22 36.32	-11 11.2	1.826	2.800	7.1	20.2	8 9	22 37.65	-17 20.9	1.792	2.768	7.0	20.0
8 19	22 30.06	-12 14.0	1.787	2.791	3.2	19.9	8 19	22 30.70	-18 6.3	1.755	2.756	3.8	19.8
8 29	22 23.02	-13 18.7	1.775	2.783	1.6	19.8	8 29	22 22.91	-18 47.1	1.744	2.745	3.5	19.7
9 8	22 16.06	-14 18.8	1.790	2.775	5.4	20.0	9 8	22 15.22	-19 17.8	1.760	2.734	6.7	19.9
9 18	22 10.02	-15 8.9	1.832	2.768	9.3	20.2	9 18	22 8.55	-19 34.5	1.801	2.723	10.3	20.1
9 28	22 5.67	-15 45.3	1.897	2.761	12.7	20.4	9 28	22 3.70	-19 35.5	1.864	2.713	13.6	20.3
314502	2005 <i>WB</i> ₂₀₈		8 27.3 217°67'	1°4/25.7	18		485238	2010 <i>VR</i> ₇₁		8 27.3 305°66'	5°0/1.0	18	
7 20	22 46.74	-12 11.2	2.641	3.470	11.1	22.0	7 20	22 44.43	+5 45.8	2.046	2.822	15.7	20.9
7 30	22 42.71	-12 48.6	2.552	3.465	8.6	21.8	7 30	22 41.58	+5 58.7	1.936	2.798	13.2	20.6
8 9	22 37.12	-13 32.8	2.487	3.458	5.7	21.6	8 9	22 36.77	+5 52.6	1.846	2.773	10.4	20.4
8 19	22 30.35	-14 20.5	2.449	3.452	2.6	21.4	8 19	22 30.35	+5 26.4	1.778	2.749	7.4	20.2
8 29	22 22.97	-15 7.4	2.439	3.445	1.8	21.3	8 29	22 22.97	+4 41.3	1.735	2.725	5.2	20.0
9 8	22 15.67	-15 49.2	2.458	3.438	4.7	21.5	9 8	22 15.48	+3 41.1	1.718	2.701	5.9	20.0
9 18	22 9.10	-16 22.6	2.506	3.430	7.7	21.7	9 18	22 8.78	+2 31.5	1.727	2.677	8.7	20.1
9 28	22 3.86	-16 45.1	2.578	3.423	10.4	21.9	9 28	22 3.69	+1 19.5	1.761	2.654	12.1	20.3
19562	1999 <i>JM</i> ₈₁		8 27.3 349°19'	9°3/1.7	18		75834	2000 <i>BF</i> ₂₆		8 27.3 187°47'	3°1/24.0	18	
7 20	22 47.74	+6 46.2	1.332	2.134	21.4	16.6	7 20	22 47.93	-15 13.9	2.086	2.933	13.0	20.2
7 30	22 45.06	+8 20.1	1.254	2.125	18.4	16.4	7 30	22 44.07	-16 19.5	2.010	2.933	10.0	20.0
8 9	22 39.57	+9 33.2	1.193	2.118	15.0	16.1	8 9	22 38.26	-17 32.7	1.958	2.932	6.7	19.8
8 19	22 31.77	+10 20.4	1.150	2.111	11.7	15.9	8 19	22 30.94	-18 47.5	1.931	2.931	3.7	19.6
8 29	22 22.64	+10 38.9	1.129	2.106	9.5	15.8	8 29	22 22.88	-19 57.2	1.932	2.930	3.7	19.6
9 8	22 13.55	+10 30.0	1.130	2.102	9.9	15.8	9 8	22 14.95	-20 55.5	1.961	2.929	6.7	19.8
9 18	22 5.84	+9 59.3	1.153	2.099	12.5	16.0	9 18	22 8.02	-21 38.2	2.016	2.928	10.0	20.0
9 28	22 0.67	+9 15.5	1.197	2.098	15.9	16.2	9 28	22 2.81	-22 3.2	2.094	2.926	13.0	20.2
232178	2002 <i>EV</i> ₆₄		8 27.3 212°05'	1°2/28.5	17		139252	2001 <i>HY</i> ₃₈		8 27.3 176°63'	3°6/30.4	18	
7 20	22 49.07	-3 24.0	2.228	3.033	13.7	22.0	7 20	22 49.14	+1 56.5	1.698	2.499	17.5	20.6
7 30	22 44.83	-3 47.7	2.134	3.026	10.9	21.8	7 30	22 45.41	+1 50.3	1.616	2.500	14.3	20.3
8 9	22 38.72	-4 25.3	2.061	3.019	7.6	21.6	8 9	22 39.38	+1 23.2	1.554	2.501	10.5	20.1
8 19	22 31.15	-5 14.5	2.014	3.011	4.0	21.4	8 19	22 31.54	+0 36.2	1.514	2.501	6.5	19.9
8 29	22 22.80	-6 11.3	1.994	3.003	1.2	21.2	8 29	22 22.75	-0 27.0	1.499	2.501	3.7	19.7
9 8	22 14.49	-7 10.5	2.003	2.993	4.4	21.4	9 8	22 14.10	-1 39.6	1.511	2.501	5.5	19.8
9 18	22 7.03	-8 6.8	2.040	2.984	8.1	21.6	9 18	22 6.61	-2 54.1	1.549	2.501	9.4	20.1
9 28	22 1.16	-8 55.7	2.103	2.973	11.4	21.8	9 28	22 1.17	-4 3.0	1.612	2.500	13.2	20.3
513857	2013 <i>GP</i> ₁₁₂		8 27.3 158°61'	3°3/31.3	18		114149	2002 <i>VJ</i> ₆₄		8 27.3 293°14'	9°4/2.9	18	
7 20	22 45.26	+3 57.0	2.581	3.349	13.0	21.6	7 20	22 48.70	+10 53.3	1.584	2.346	20.1	19.3
7 30	22 41.55	+3 44.9	2.492	3.353	10.7	21.5	7 30	22 45.58	+11 59.5	1.488	2.329	17.6	19.0
8 9	22 36.33	+3 17.4	2.425	3.356	8.0	21.3	8 9	22 39.86	+12 43.0	1.409	2.312	14.7	18.8
8 19	22 29.98	+2 35.4	2.382	3.359	5.3	21.2	8 19	22 31.94	+12 59.3	1.349	2.295	11.7	18.6
8 29	22 23.06	+1 41.3	2.366	3.362	3.3	21.0	8 29	22 22.66	+12 45.7	1.311	2.278	9.7	18.4
9 8	22 16.23	+0 39.4	2.379	3.365	4.2	21.1	9 8	22 13.21	+12 4.0	1.296	2.261	9.7	18.4
9 18	22 10.14	-0 25.6	2.420	3.367	6.7	21.3	9 18	22 4.85	+11 0.1	1.305	2.244	11.9	18.5
9 28	22 5.34	-1 28.8	2.488	3.369	9.4	21.4	9 28	21 58.73	+9 43.3	1.335	2.228	15.2	18.6
189120	2001 <i>WQ</i> ₇		8 27.3 238°33'	0°9/26.5	18		319372	2006 <i>DG</i> ₇₄		8 27.3 232°15'	0°4/27.8	18	
7 20	22 48.63	-8 48.9	1.844	2.680	14.9	20.5	7 20	22 44.83	-5 15.7	2.726	3.535	11.4	21.6
7 30	22 44.93	-9 32.8	1.757	2.672	11.6	20.3	7 30	22 41.21	-5 51.2	2.629	3.527	8.9	21.4
8 9	22 39.01	-10 30.1	1.692	2.664	7.8	20.0	8 9	22 36.13	-6 37.6	2.555	3.517	6.1	21.2
8 19	22 31.36	-11 36.5	1.651	2.655	3.5	19.7	8 19	22 29.92	-7 32.5	2.507	3.508	3.0	21.0
8 29	22 22.76	-12 45.6	1.637	2.646	1.5	19.6	8 29	22 23.12	-8 32.2	2.489	3.498	0.6	20.8
9 8	22 14.23	-13 50.2	1.651	2.636	5.8	19.9	9 8	22 16.35	-9 32.1	2.499	3.488	3.7	21.1
9 18	22 6.76	-14 44.3	1.691	2.626	10.0	20.1	9 18	22 10.23	-10 28.0	2.538	3.478	6.9	21.2
9 28	22 1.20	-15 23.7	1.754	2.616	13.7	20.3	9 28	22 5.33	-11 16.3	2.604	3.467	9.7	21.4
394617	2007 <i>VQ</i> ₃₃₀		8 27.3 302°58'	5°6/22.0	18		247160	2000 <i>YF</i> ₅₄		8 27.3 231°68'	11°9/6.8	18	
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EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
260251	2004 <i>RM</i> ₃₄₀		8 27.3 273°15	7°3/ 3.3	17		60881	2000 <i>HE</i> ₉₄		8 27.3 180°05	1°0/26.6	17	
7 20	22 48.81	+12 37.0	2.461	3.172	14.9	20.5	7 20	22 53.79	-9 39.4	1.545	2.386	17.1	20.2
7 30	22 44.61	+13 32.6	2.357	3.159	13.1	20.3	7 30	22 49.28	-10 7.9	1.470	2.387	13.4	20.0
8 9	22 38.60	+14 11.6	2.272	3.146	11.0	20.2	8 9	22 42.10	-10 49.5	1.415	2.388	8.9	19.7
8 19	22 31.15	+14 31.5	2.208	3.133	9.0	20.0	8 19	22 32.85	-11 39.6	1.384	2.388	4.1	19.5
8 29	22 22.86	+14 31.2	2.170	3.120	7.6	19.9	8 29	22 22.55	-12 31.2	1.379	2.388	1.6	19.3
9 8	22 14.49	+14 11.8	2.158	3.107	7.5	19.9	9 8	22 12.47	-13 17.1	1.400	2.387	6.4	19.6
9 18	22 6.84	+13 36.5	2.172	3.093	8.9	19.9	9 18	22 3.82	-13 51.6	1.447	2.385	11.1	19.9
9 28	22 0.64	+12 50.5	2.211	3.080	11.0	20.1	9 28	21 57.58	-14 11.3	1.516	2.384	15.2	20.1
500121	2012 <i>BW</i> ₁₄₉		8 27.3 150°89	1°5/28.6	17		448056	2008 <i>FV</i> ₉₄		8 27.3 44°15	2°5/29.9	15	
7 20	22 51.14	-2 54.0	1.683	2.501	16.9	22.1	7 20	22 44.37	+0 48.1	1.891	2.698	15.7	21.3
7 30	22 46.92	-3 19.2	1.608	2.507	13.5	21.9	7 30	22 41.31	+0 20.5	1.825	2.715	12.6	21.1
8 9	22 40.34	-4 2.4	1.553	2.514	9.4	21.7	8 9	22 36.37	-0 25.7	1.780	2.732	9.1	20.9
8 19	22 31.97	-5 0.4	1.521	2.519	4.9	21.4	8 19	22 30.07	-1 27.9	1.758	2.750	5.3	20.8
8 29	22 22.70	-6 7.8	1.516	2.525	1.5	21.2	8 29	22 23.14	-2 41.1	1.762	2.768	2.5	20.6
9 8	22 13.65	-7 17.3	1.538	2.529	5.2	21.5	9 8	22 16.46	-3 58.8	1.794	2.786	4.5	20.8
9 18	22 5.85	-8 21.7	1.587	2.534	9.6	21.8	9 18	22 10.82	-5 14.2	1.852	2.804	8.1	21.0
9 28	22 0.16	-9 15.3	1.659	2.537	13.5	22.0	9 28	22 6.88	-6 21.5	1.936	2.823	11.4	21.3
475083	2005 <i>UY</i> ₁₇₂		8 27.3 197°02	8°5/14.9	18		267272	2001 <i>RG</i> ₂₉		8 27.3 338°83	1°2/26.6	18	
7 20	22 56.15	-43 0.9	3.026	3.830	10.5	22.2	7 20	22 46.41	-10 59.1	1.204	2.077	18.9	20.0
7 30	22 50.15	-44 11.6	2.973	3.827	9.3	22.1	7 30	22 44.29	-11 9.1	1.129	2.064	14.9	19.7
8 9	22 42.16	-45 12.0	2.943	3.823	8.6	22.0	8 9	22 39.19	-11 32.6	1.072	2.053	10.0	19.4
8 19	22 32.69	-45 56.0	2.938	3.818	8.6	22.0	8 19	22 31.66	-12 5.1	1.036	2.042	4.6	19.0
8 29	22 22.57	-46 18.9	2.958	3.814	9.2	22.1	8 29	22 22.79	-12 39.5	1.023	2.032	1.9	18.8
9 8	22 12.70	-46 18.5	3.002	3.809	10.2	22.1	9 8	22 14.07	-13 8.0	1.033	2.023	7.4	19.1
9 18	22 3.96	-45 55.3	3.068	3.803	11.5	22.2	9 18	22 6.93	-13 24.5	1.065	2.016	12.8	19.4
9 28	21 57.04	-45 11.4	3.153	3.797	12.7	22.3	9 28	22 2.52	-13 25.0	1.117	2.010	17.5	19.7
215777	2004 <i>HR</i> ₃₇		8 27.3 163°22	7°0/19.4	18		371403	2006 <i>RQ</i> ₈₂		8 27.3 5°86	0°7/26.9	17	
7 20	22 50.95	-29 26.9	2.264	3.113	12.1	20.4	7 20	22 44.86	-10 25.6	0.943	1.834	21.5	20.3
7 30	22 46.40	-30 48.2	2.205	3.116	9.8	20.2	7 30	22 43.50	-10 22.9	0.889	1.833	16.8	20.1
8 9	22 39.79	-32 6.1	2.170	3.119	7.9	20.1	8 9	22 38.79	-10 35.6	0.850	1.834	11.3	19.8
8 19	22 31.64	-33 13.2	2.161	3.121	7.0	20.1	8 19	22 31.45	-10 59.0	0.831	1.837	5.2	19.4
8 29	22 22.78	-34 2.7	2.177	3.123	7.8	20.1	8 29	22 22.86	-11 25.5	0.832	1.842	1.5	19.2
9 8	22 14.15	-34 30.6	2.220	3.125	9.6	20.2	9 8	22 14.72	-11 46.8	0.855	1.848	7.7	19.6
9 18	22 6.63	-34 35.5	2.286	3.127	11.8	20.4	9 18	22 8.56	-11 56.7	0.898	1.856	13.4	20.0
9 28	22 0.98	-34 18.7	2.374	3.128	13.9	20.5	9 28	22 5.48	-11 51.2	0.960	1.866	18.3	20.3
101780	1999 <i>GP</i> ₈		8 27.3 170°59	3°5/24.5	18		253670	2003 <i>UL</i> ₁₉₅		8 27.3 321°64	2°5/25.8	18	
7 20	22 54.00	-15 32.2	1.688	2.536	15.5	19.9	7 20	22 47.88	-12 48.5	1.197	2.072	18.9	20.3
7 30	22 49.23	-16 27.5	1.617	2.539	12.0	19.7	7 30	22 45.58	-13 14.0	1.119	2.056	14.8	20.0
8 9	22 41.94	-17 30.9	1.568	2.542	8.1	19.5	8 9	22 40.18	-13 52.6	1.059	2.040	10.0	19.7
8 19	22 32.73	-18 35.6	1.544	2.545	4.4	19.3	8 19	22 32.18	-14 38.7	1.019	2.025	4.7	19.4
8 29	22 22.56	-19 33.5	1.546	2.546	4.1	19.2	8 29	22 22.70	-15 23.5	1.003	2.010	3.2	19.2
9 8	22 12.66	-20 17.6	1.576	2.547	7.6	19.5	9 8	22 13.29	-15 58.1	1.010	1.996	8.3	19.5
9 18	22 4.14	-20 43.8	1.631	2.548	11.6	19.7	9 18	22 5.47	-16 16.1	1.038	1.983	13.7	19.8
9 28	21 57.89	-20 50.7	1.708	2.548	15.0	19.9	9 28	22 0.51	-16 14.0	1.087	1.971	18.5	20.0
23387	1039 <i>T</i> ₋₃		8 27.3 16°43	2°3/26.1	18		376230	2011 <i>ER</i> ₄₁		8 27.3 247°86	1°6/26.0	18	
7 20	22 55.29	-15 59.0	1.458	2.314	17.2	18.0	7 20	22 51.58	-11 30.0	1.810	2.650	15.0	22.2
7 30	22 50.45	-15 48.8	1.391	2.317	13.3	17.8	7 30	22 47.37	-12 3.8	1.719	2.636	11.7	22.0
8 9	22 42.83	-15 42.8	1.345	2.321	8.9	17.6	8 9	22 40.78	-12 48.4	1.649	2.621	7.9	21.7
8 19	22 33.13	-15 36.8	1.322	2.326	4.3	17.3	8 19	22 32.27	-13 39.4	1.603	2.607	3.6	21.5
8 29	22 22.49	-15 25.7	1.325	2.331	2.8	17.2	8 29	22 22.69	-14 30.5	1.584	2.591	2.1	21.3
9 8	22 12.30	-15 5.9	1.353	2.338	7.0	17.5	9 8	22 13.13	-15 15.2	1.593	2.575	6.3	21.5
9 18	22 3.78	-14 35.8	1.407	2.344	11.4	17.8	9 18	22 4.68	-15 48.2	1.627	2.559	10.6	21.8
9 28	21 57.84	-13 55.1	1.482	2.352	15.3	18.1	9 28	21 58.27	-16 6.4	1.685	2.542	14.4	22.0
21282	Shimizuyuka		8 27.3 257°37	9°4/ 5.8	18		382104	2011 <i>GG</i> ₇₀		8 27.3 21°04	9°9/17.9	18	
7 20	22 47.15	+18 4.5	1.845	2.549	19.5	17.8	7 20	22 49.52	-29 34.7	1.505	2.378	15.8	20.1
7 30	22 44.06	+18 18.4	1.738	2.530	17.4	17.6	7 30	22 46.33	-31 33.0	1.456	2.380	13.0	20.0
8 9	22 38.66	+18 2.5	1.645	2.511	14.9	17.4	8 9	22 40.29	-33 27.2	1.429	2.383	10.7	19.8
8 19	22 31.33	+17 12.6	1.572	2.492	12.2	17.2	8 19	22 32.05	-35 5.5	1.425	2.386	9.9	19.8
8 29	22 22.82	+15 47.1	1.521	2.472	10.0	17.0	8 29	22 22.76	-36 16.6	1.445	2.389	11.1	19.9
9 8	22 14.17	+13 49.7	1.494	2.451	9.4	16.9	9 8	22 13.83	-36 54.3	1.487	2.392	13.4	20.0
9 18	22 6.46	+11 28.5	1.494	2.430	11.0	17.0	9 18	22 6.55	-36 57.6	1.549	2.396	16.1	20.2
9 28	22 0.71	+8 55.8	1.518	2.409	13.8	17.1	9 28	22 1.88	-36 29.5	1.629	2.400	18.6	20.4
50942	2000 <i>GR</i> ₇₁		8 27.3 310°70	0°0/27.3	18		342093	2008 <i>SL</i> ₅₅		8 27.3 60°32	1°4/26.3	16	
7 20	22 44.79	-7 33.3	2.364	3.189	12.4	18.3	7 20	22 50.94	-11 21.4	1.594	2.442	16.3	21.0
7 30	22 41.40	-7 58.7	2.275	3.182	9.7	18.1	7 30	22 46.83	-11 45.2	1.530	2.451	12.6	20.8
8 9	22 36.36	-8 34.4	2.208	3.176	6.5	17.9	8 9	22 40.29	-12 19.3	1.486	2.461	8.4	20.6
8 19	22 30.07	-9 17.6	2.167	3.169	3.0	17.7	8 19	22 31.95	-12 58.8	1.466	2.471	3.8	20.3
8 29	22 23.12	-10 4.2	2.153	3.163	0.6	17.5	8 29	22 22.79	-13 37.6	1.473	2.481	1.9	20.2
9 8	22 16.24	-10 49.6	2.168	3.156	4.3	17.8	9 8	22 13.98	-14 9.6	1.505	2.491	6.2	20.5
9 18	22 10.15	-11 29.7	2.210	3.150	7.7	18.0	9 18	22 6.56	-14 30.4	1.563	2.501	10.5	20.8
9 28	22 5.47	-12 1.0	2.277	3.144	10.8	18.2	9 28	22 1.36	-14 37.5	1.643	2.511	14.2	21.1
154927	2004 <i>SK</i> ₅₄		8 27.3 303°46	6°9/20.5	18		446576	2014 <i>OE</i> ₁₃₆		8 27.3 280°09	1°6/		

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
407921	2012 <i>CJ</i> ₁₆		8 27.3 96°09	2°0/24.9	18		400981	2010 <i>XT</i> ₇₁		8 27.3 223°76	3°1/30.7	18	
7 20	22 44.53	-11 49.6	2.356	3.195	12.0	21.2	7 20	22 46.54	+1 45.5	2.540	3.318	12.9	21.1
7 30	22 41.20	-13 0.5	2.280	3.199	9.2	21.0	7 30	22 42.63	+1 52.8	2.447	3.315	10.6	20.9
8 9	22 36.22	-14 20.4	2.229	3.203	6.0	20.8	8 9	22 37.14	+1 46.7	2.375	3.312	7.9	20.7
8 19	22 30.01	-15 44.5	2.204	3.207	2.9	20.6	8 19	22 30.45	+1 27.9	2.327	3.309	5.1	20.6
8 29	22 23.18	-17 6.5	2.208	3.211	2.5	20.6	8 29	22 23.13	+0 58.1	2.307	3.305	3.2	20.4
9 8	22 16.48	-18 20.5	2.240	3.215	5.4	20.8	9 8	22 15.87	+0 20.7	2.315	3.302	4.2	20.5
9 18	22 10.59	-19 22.0	2.300	3.219	8.6	21.0	9 18	22 9.34	-0 20.4	2.351	3.298	6.9	20.7
9 28	22 6.14	-20 7.9	2.384	3.223	11.4	21.2	9 28	22 4.15	-1 1.0	2.413	3.294	9.7	20.8
342148	2008 <i>SX</i> ₁₃₈		8 27.3 5°25	2°5/25.4	18		59978	1999 <i>SR</i> ₅		8 27.3 31°34	19°3/22.9	18	
7 20	22 44.00	-11 51.4	1.227	2.105	18.3	20.1	7 20	23 23.98	-46 15.2	0.930	1.772	25.6	18.2
7 30	22 42.18	-12 38.3	1.166	2.104	14.2	19.9	7 30	23 15.39	-47 12.0	0.894	1.776	23.0	18.0
8 9	22 37.58	-13 39.6	1.123	2.105	9.4	19.6	8 9	23 0.55	-47 38.1	0.871	1.781	20.7	17.9
8 19	22 30.83	-14 48.1	1.102	2.107	4.4	19.3	8 19	22 41.31	-47 13.2	0.865	1.786	19.4	17.8
8 29	22 23.01	-15 54.4	1.104	2.110	3.2	19.3	8 29	22 21.06	-45 44.5	0.877	1.793	19.5	17.9
9 8	22 15.51	-16 49.1	1.130	2.115	7.9	19.6	9 8	22 3.43	-43 15.1	0.907	1.799	21.1	18.0
9 18	22 9.57	-17 25.5	1.178	2.120	12.7	19.8	9 18	21 50.71	-40 0.5	0.956	1.806	23.5	18.2
9 28	22 6.16	-17 40.6	1.247	2.127	16.9	20.1	9 28	21 43.67	-36 20.3	1.021	1.814	26.0	18.4
108888	2001 <i>OQ</i> ₁₁₁		8 27.3 302°44	0°4/27.6	18		261135	2005 <i>TB</i> ₅₁		8 27.3 246°34	9°2/13.5	18	
7 20	22 52.02	-7 59.4	1.556	2.395	17.1	19.7	7 20	22 49.91	-38 30.1	2.485	3.320	11.6	20.2
7 30	22 47.90	-7 58.2	1.478	2.392	13.5	19.4	7 30	22 45.86	-40 25.0	2.430	3.312	10.2	20.1
8 9	22 41.19	-8 9.6	1.419	2.389	9.2	19.2	8 9	22 39.64	-42 12.0	2.399	3.304	9.3	20.0
8 19	22 32.46	-8 30.6	1.383	2.386	4.4	18.9	8 19	22 31.71	-43 42.9	2.393	3.295	9.4	20.0
8 29	22 22.68	-8 56.7	1.373	2.383	0.8	18.6	8 29	22 22.87	-44 50.8	2.412	3.287	10.3	20.1
9 8	22 13.09	-9 22.1	1.390	2.380	5.8	19.0	9 8	22 14.10	-45 31.7	2.454	3.278	11.7	20.1
9 18	22 4.86	-9 41.9	1.431	2.378	10.5	19.2	9 18	22 6.39	-45 44.8	2.517	3.269	13.3	20.3
9 28	21 58.94	-9 52.2	1.495	2.375	14.6	19.5	9 28	22 0.57	-45 31.9	2.598	3.260	14.9	20.4
379227	2009 <i>SJ</i> ₂₃₀		8 27.3 317°13	2°5/25.2	16		236497	2006 <i>GU</i> ₂₀		8 27.3 230°03	0°8/26.6	18 R	
7 20	22 45.59	-10 52.4	1.406	2.270	17.2	20.4	7 20	22 48.69	-9 3.9	2.006	2.839	14.0	21.5
7 30	22 43.27	-11 58.0	1.329	2.260	13.4	20.2	7 30	22 44.80	-9 42.3	1.919	2.831	11.0	21.3
8 9	22 38.30	-13 20.5	1.271	2.251	8.9	19.9	8 9	22 38.86	-10 32.4	1.853	2.824	7.3	21.0
8 19	22 31.21	-14 52.7	1.237	2.241	4.2	19.6	8 19	22 31.33	-11 30.4	1.812	2.816	3.3	20.8
8 29	22 22.94	-16 24.9	1.227	2.233	3.3	19.5	8 29	22 22.95	-12 30.6	1.799	2.808	1.3	20.6
9 8	22 14.76	-17 46.4	1.242	2.224	7.8	19.8	9 8	22 14.64	-13 26.9	1.814	2.799	5.3	20.9
9 18	22 7.93	-18 49.3	1.281	2.216	12.6	20.0	9 18	22 7.30	-14 14.0	1.856	2.791	9.3	21.1
9 28	22 3.47	-19 28.9	1.341	2.208	16.8	20.3	9 28	22 1.73	-14 48.2	1.921	2.782	12.8	21.3
384469	2010 <i>CV</i> ₂		8 27.3 124°60	1°0/26.4	18		106307	2000 <i>UD</i> ₉₂		8 27.3 344°63	0°2/27.5	18	
7 20	22 48.33	-9 9.2	1.867	2.704	14.7	21.2	7 20	22 47.22	-7 49.2	1.931	2.764	14.5	20.1
7 30	22 44.54	-9 55.6	1.794	2.709	11.4	21.0	7 30	22 43.66	-8 1.8	1.849	2.761	11.3	19.8
8 9	22 38.66	-10 54.2	1.742	2.715	7.6	20.8	8 9	22 38.08	-8 25.7	1.789	2.758	7.7	19.6
8 19	22 31.20	-12 0.4	1.716	2.720	3.4	20.6	8 19	22 30.95	-8 57.9	1.753	2.755	3.6	19.4
8 29	22 22.97	-13 7.5	1.717	2.725	1.6	20.5	8 29	22 23.04	-9 34.1	1.743	2.753	0.7	19.1
9 8	22 14.93	-14 9.1	1.745	2.730	5.6	20.7	9 8	22 15.26	-10 9.2	1.761	2.751	4.9	19.4
9 18	22 8.00	-14 59.6	1.799	2.734	9.5	21.0	9 18	22 8.51	-10 38.7	1.805	2.749	8.9	19.7
9 28	22 2.94	-15 35.4	1.878	2.739	13.0	21.2	9 28	22 3.53	-10 59.1	1.873	2.748	12.4	19.9
402390	2005 <i>YZ</i> ₇₈		8 27.3 104°88	3°9/22.7	18		342600	2008 <i>UW</i> ₃₁₀		8 27.3 347°25	13°5/10.5	18	
7 20	22 46.32	-19 8.6	2.341	3.192	11.7	21.2	7 20	22 46.24	+24 37.8	1.749	2.412	21.6	20.3
7 30	22 42.63	-20 17.1	2.272	3.196	9.0	21.0	7 30	22 43.49	+25 58.3	1.668	2.409	19.9	20.1
8 9	22 37.20	-21 29.3	2.228	3.200	6.2	20.8	8 9	22 38.33	+26 49.6	1.599	2.407	18.0	20.0
8 19	22 30.47	-22 39.4	2.210	3.203	4.1	20.7	8 19	22 31.21	+27 5.5	1.547	2.405	16.0	19.8
8 29	22 23.12	-23 41.5	2.219	3.207	4.5	20.8	8 29	22 22.97	+26 42.1	1.512	2.403	14.3	19.7
9 8	22 15.92	-24 30.4	2.257	3.211	6.9	20.9	9 8	22 14.73	+25 40.0	1.498	2.402	13.5	19.7
9 18	22 9.63	-25 3.0	2.320	3.215	9.6	21.1	9 18	22 7.62	+24 4.7	1.506	2.401	13.8	19.7
9 28	22 4.87	-25 18.4	2.406	3.219	12.1	21.3	9 28	22 2.63	+22 6.3	1.535	2.400	15.1	19.8
322363	2011 <i>KY</i> ₂₉		8 27.3 80°73	0°2/27.5	18		181610	2006 <i>WW</i> ₁₀₀		8 27.3 271°17	3°9/30.9	18	
7 20	22 50.78	-7 10.1	1.704	2.537	16.1	20.8	7 20	22 47.89	+2 29.8	2.128	2.912	14.9	20.5
7 30	22 46.49	-7 29.3	1.641	2.552	12.6	20.6	7 30	22 44.01	+2 46.7	2.039	2.910	12.3	20.3
8 9	22 39.96	-8 1.6	1.598	2.566	8.5	20.3	8 9	22 38.25	+2 47.9	1.970	2.907	9.3	20.1
8 19	22 31.78	-8 43.3	1.579	2.581	4.0	20.1	8 19	22 31.04	+2 33.5	1.925	2.905	6.2	19.9
8 29	22 22.86	-9 28.8	1.586	2.596	0.7	19.9	8 29	22 23.06	+2 5.3	1.906	2.902	4.0	19.8
9 8	22 14.28	-10 12.1	1.621	2.610	5.3	20.3	9 8	22 15.15	+1 26.9	1.914	2.900	5.1	19.8
9 18	22 7.00	-10 48.3	1.681	2.625	9.4	20.5	9 18	22 8.15	+0 43.1	1.949	2.897	8.0	20.0
9 28	22 1.78	-11 13.5	1.766	2.639	13.0	20.8	9 28	22 2.76	-0 0.7	2.009	2.895	11.2	20.2
304556	2006 <i>UE</i> ₃₃₇		8 27.3 346°45	0°7/26.7	18		158098	2000 <i>WZ</i> ₁₉₀		8 27.3 331°91	10°5/17.6	18	
7 20	22 46.02	-8 54.5	1.845	2.687	14.7	20.7	7 20	22 48.78	-30 21.8	1.447	2.323	16.1	19.0
7 30	22 42.83	-9 27.7	1.766	2.684	11.4	20.5	7 30	22 46.03	-32 15.0	1.389	2.314	13.4	18.8
8 9	22 37.57	-10 13.0	1.708	2.681	7.6	20.3	8 9	22 40.29	-34 4.8	1.353	2.306	11.2	18.7
8 19	22 30.73	-11 6.6	1.675	2.679	3.5	20.0	8 19	22 32.17	-35 38.6	1.339	2.299	10.5	18.6
8 29	22 23.06	-12 2.5	1.668	2.677	1.2	19.8	8 29	22 22.82	-36 44.8	1.347	2.291	11.7	18.7
9 8	22 15.54	-12 54.7	1.688	2.675	5.4	20.1	9 8	22 13.75	-37 16.0	1.378	2.285	14.2	18.8
9 18	22 9.08	-13 37.6	1.734	2.674	9.5	20.4	9 18	22 6.35	-37 11.1	1.428	2.279	17.0	19.0
9 28	22 4.44	-14 7.6	1.803	2.673	13.0	20.6	9 28	22 1.68	-36 33.0	1.496	2.274	19.7	19.1
494251	2016 <i>QO</i> ₂₀		8 27.3 109°92	3°7/30.6	17		53570	2000 <i>CR</i> ₃₆		8 27.3 200°15	0°2/27.5</		

EPHEMERIDES

8 27.3

8 27.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
99315	2001 <i>TF</i> ₄₆		8 27.3 154°41'	14.3°/ 8.1 17			144005	2004 <i>AB</i> ₈		8 27.3 219°72'	1°9'/25.7 18		
7 20	22 53.18	+21 22.6	1.398	2.100	24.8	19.8	7 20	22 51.78	-11 48.8	1.879	2.716	14.6	20.9
7 30	22 49.43	+22 55.7	1.327	2.105	22.5	19.6	7 30	22 47.42	-12 34.4	1.792	2.708	11.4	20.6
8 9	22 42.64	+23 56.2	1.267	2.110	19.9	19.4	8 9	22 40.76	-13 30.8	1.727	2.700	7.6	20.4
8 19	22 33.33	+24 16.3	1.224	2.113	17.3	19.3	8 19	22 32.30	-14 32.9	1.687	2.690	3.6	20.1
8 29	22 22.59	+23 50.9	1.199	2.117	15.2	19.2	8 29	22 22.86	-15 34.2	1.674	2.680	2.4	20.0
9 8	22 11.91	+22 41.6	1.194	2.120	14.3	19.1	9 8	22 13.48	-16 27.8	1.690	2.670	6.3	20.3
9 18	22 2.78	+20 56.3	1.210	2.122	15.1	19.2	9 18	22 5.20	-17 8.6	1.731	2.658	10.4	20.5
9 28	21 56.41	+18 48.5	1.247	2.124	17.1	19.3	9 28	21 58.90	-17 33.4	1.796	2.647	14.0	20.7
343287	2010 <i>AL</i> ₄₅		8 27.3 69°90'	3°0'/29.6 16			240401	2003 <i>UY</i> ₁₆₈		8 27.3 313°58'	1°2'/26.5 18		
7 20	22 52.21	- 1 55.4	1.648	2.462	17.4	20.8	7 20	22 47.51	-10 44.2	1.568	2.422	16.2	20.1
7 30	22 47.71	- 1 35.7	1.581	2.475	14.0	20.6	7 30	22 44.63	-11 4.2	1.475	2.400	12.8	19.8
8 9	22 40.85	- 1 32.0	1.534	2.489	10.0	20.4	8 9	22 39.21	-11 36.4	1.403	2.379	8.6	19.5
8 19	22 32.25	- 1 43.2	1.510	2.502	5.9	20.1	8 19	22 31.70	-12 16.9	1.353	2.358	4.0	19.2
8 29	22 22.85	- 2 6.2	1.511	2.516	3.0	20.0	8 29	22 22.96	-12 59.5	1.329	2.337	1.8	19.0
9 8	22 13.76	- 2 36.2	1.539	2.530	5.4	20.2	9 8	22 14.20	-13 37.3	1.329	2.317	6.5	19.2
9 18	22 6.02	- 3 7.7	1.593	2.543	9.3	20.5	9 18	22 6.59	-14 4.6	1.355	2.297	11.3	19.5
9 28	22 0.43	- 3 35.6	1.670	2.557	13.0	20.7	9 28	22 1.21	-14 17.3	1.402	2.278	15.6	19.7
302148	2001 <i>SV</i> ₁₁₈		8 27.3 352°17'	3°1'/30.1 18			22404	1995 <i>ME</i> ₄		8 27.3 275°92'	2°2'/31.4 17		
7 20	22 45.95	+ 0 0.2	1.784	2.595	16.3	20.4	7 20	22 39.79	+ 3 0.6	4.560	5.315	7.9	19.5
7 30	22 42.86	+ 0 2.2	1.701	2.593	13.3	20.2	7 30	22 36.76	+ 2 59.3	4.454	5.306	6.5	19.4
8 9	22 37.66	- 0 13.5	1.639	2.591	9.7	20.0	8 9	22 32.90	+ 2 49.9	4.371	5.297	4.9	19.2
8 19	22 30.82	- 0 46.0	1.599	2.589	5.9	19.7	8 19	22 28.43	+ 2 32.9	4.314	5.288	3.3	19.1
8 29	22 23.12	- 1 31.8	1.584	2.588	3.1	19.6	8 29	22 23.65	+ 2 9.4	4.286	5.279	2.2	19.0
9 8	22 15.54	- 2 25.5	1.596	2.587	5.1	19.7	9 8	22 18.89	+ 1 41.1	4.287	5.270	2.7	19.1
9 18	22 9.01	- 3 20.8	1.633	2.586	8.9	19.9	9 18	22 14.48	+ 1 10.0	4.317	5.261	4.1	19.2
9 28	22 4.35	- 4 11.6	1.695	2.586	12.5	20.2	9 28	22 10.74	+ 0 38.4	4.375	5.252	5.8	19.3
449540	2014 <i>HK</i> ₁₁₄		8 27.3 21°63'	3°1'/30.3 15			167443	2003 <i>XX</i> ₆		8 27.3 285°92'	4°8'/23.9 18		
7 20	22 40.78	+ 1 56.8	1.351	2.185	19.5	20.2	7 20	22 55.26	-21 59.9	1.865	2.714	14.3	19.8
7 30	22 39.22	+ 1 26.1	1.299	2.203	15.7	20.0	7 30	22 50.20	-22 25.2	1.780	2.700	11.2	19.6
8 9	22 35.33	+ 0 29.6	1.264	2.222	11.3	19.8	8 9	22 42.66	-22 51.2	1.718	2.686	8.0	19.4
8 19	22 29.72	- 0 49.2	1.250	2.243	6.7	19.6	8 19	22 33.18	-23 11.7	1.680	2.673	5.3	19.2
8 29	22 23.36	- 2 23.1	1.260	2.265	3.2	19.5	8 29	22 22.69	-23 20.6	1.668	2.659	5.3	19.2
9 8	22 17.37	- 4 2.2	1.294	2.288	5.4	19.7	9 8	22 12.39	-23 13.3	1.684	2.645	8.2	19.3
9 18	22 12.71	- 5 36.3	1.353	2.313	9.7	20.0	9 18	22 3.37	-22 48.3	1.725	2.632	11.6	19.5
9 28	22 10.15	- 6 57.4	1.435	2.339	13.6	20.3	9 28	21 56.55	-22 6.2	1.788	2.618	14.9	19.7
66041	1998 <i>QZ</i> ₇₇		8 27.3 68°04'	1°7'/28.8 18			86545	2000 <i>DC</i> ₁₀₉		8 27.3 60°41'	1°3'/26.6 17		
7 20	22 51.61	- 4 59.1	2.289	3.093	13.4	18.7	7 20	22 54.18	-11 9.7	1.247	2.106	19.3	20.3
7 30	22 46.66	- 4 36.6	2.205	3.096	10.7	18.5	7 30	22 50.11	-11 22.6	1.183	2.110	15.1	20.0
8 9	22 39.88	- 4 23.4	2.144	3.100	7.5	18.4	8 9	22 42.95	-11 48.1	1.137	2.114	10.1	19.8
8 19	22 31.75	- 4 18.6	2.108	3.103	4.1	18.1	8 19	22 33.39	-12 21.0	1.113	2.118	4.6	19.5
8 29	22 22.95	- 4 20.1	2.100	3.107	1.7	18.0	8 29	22 22.66	-12 54.1	1.113	2.122	1.9	19.3
9 8	22 14.32	- 4 25.2	2.121	3.110	4.2	18.2	9 8	22 12.33	-13 20.0	1.138	2.126	7.2	19.6
9 18	22 6.62	- 4 30.9	2.169	3.114	7.6	18.4	9 18	22 3.79	-13 33.6	1.186	2.131	12.4	20.0
9 28	22 0.53	- 4 34.3	2.244	3.117	10.6	18.6	9 28	21 58.11	-13 32.2	1.255	2.135	16.8	20.2
285434	1999 <i>VZ</i> ₁₃₀		8 27.3 304°81'	1°3'/26.4 17			192491	1998 <i>HU</i> ₂₇		8 27.3 104°95'	0°7'/27.9 18		
7 20	22 48.65	-10 29.9	1.346	2.208	18.0	22.1	7 20	22 50.04	- 6 15.4	1.777	2.605	15.7	20.2
7 30	22 45.96	-10 52.6	1.258	2.187	14.2	21.8	7 30	22 45.99	- 6 27.7	1.701	2.609	12.4	20.0
8 9	22 40.36	-11 29.9	1.188	2.166	9.6	21.5	8 9	22 39.72	- 6 53.5	1.646	2.612	8.5	19.8
8 19	22 32.31	-12 17.5	1.140	2.145	4.4	21.1	8 19	22 31.77	- 7 29.6	1.615	2.616	4.1	19.5
8 29	22 22.80	-13 7.9	1.116	2.125	2.0	20.9	8 29	22 22.98	- 8 11.4	1.610	2.620	0.8	19.3
9 8	22 13.21	-13 52.8	1.116	2.105	7.3	21.2	9 8	22 14.40	- 8 53.2	1.633	2.623	5.1	19.6
9 18	22 5.00	-14 25.0	1.140	2.085	12.7	21.4	9 18	22 7.00	- 9 29.8	1.681	2.627	9.3	19.8
9 28	21 59.38	-14 40.0	1.184	2.066	17.5	21.7	9 28	22 1.57	- 9 56.9	1.754	2.630	13.0	20.1
477013	2008 <i>YA</i> ₁₅₁		8 27.3 277°44'	2°5'/29.5 18			334716	2003 <i>GC</i> ₄₈		8 27.3 235°93'	1°0'/28.4 18		
7 20	22 49.41	- 1 23.5	2.002	2.805	15.1	22.2	7 20	22 48.39	- 2 44.4	2.051	2.860	14.6	22.0
7 30	22 45.59	- 1 22.8	1.890	2.778	12.3	21.9	7 30	22 44.62	- 3 25.8	1.951	2.846	11.7	21.7
8 9	22 39.60	- 1 37.4	1.799	2.751	9.0	21.7	8 9	22 38.83	- 4 24.5	1.873	2.832	8.1	21.5
8 19	22 31.82	- 2 6.6	1.731	2.723	5.2	21.4	8 19	22 31.40	- 5 37.7	1.819	2.818	4.2	21.2
8 29	22 22.92	- 2 48.0	1.690	2.695	2.6	21.2	8 29	22 23.05	- 7 0.5	1.794	2.803	1.1	21.0
9 8	22 13.86	- 3 36.8	1.676	2.666	5.0	21.3	9 8	22 14.67	- 8 25.8	1.797	2.787	4.7	21.2
9 18	22 5.61	- 4 27.5	1.689	2.637	9.0	21.5	9 18	22 7.16	- 9 46.8	1.827	2.771	8.8	21.4
9 28	21 59.11	- 5 14.3	1.727	2.608	12.9	21.6	9 28	22 1.34	-10 57.3	1.883	2.754	12.5	21.6
516258	2016 <i>UL</i> ₁₄₆		8 27.3 318°55'	8°4'/ 3.6 18			510207	2011 <i>CP</i> ₈₉		8 27.3 54°74'	2°9'/29.7 17		
7 20	22 46.70	+11 45.3	1.798	2.547	18.5	20.8	7 20	22 48.03	- 0 12.3	1.515	2.336	18.3	21.3
7 30	22 43.62	+12 35.7	1.707	2.538	16.1	20.6	7 30	22 44.78	- 0 20.9	1.444	2.342	14.8	21.1
8 9	22 38.31	+13 3.5	1.634	2.530	13.4	20.4	8 9	22 39.09	- 0 50.5	1.392	2.349	10.7	20.8
8 19	22 31.20	+13 5.5	1.580	2.522	10.7	20.2	8 19	22 31.53	- 1 39.1	1.363	2.356	6.2	20.6
8 29	22 23.06	+12 40.7	1.550	2.514	8.7	20.0	8 29	22 23.05	- 2 42.0	1.358	2.363	3.0	20.4
9 8	22 14.92	+11 51.9	1.543	2.507	8.6	20.0	9 8	22 14.81	- 3 51.5	1.378	2.371	5.5	20.6
9 18	22 7.78	+10 44.9	1.561	2.500	10.4	20.1	9 18	22 7.89	- 4 59.8	1.424	2.378	9.8	20.9
9 28	22 2.56	+ 9 28.0	1.603	2.493	13.2	20.3	9 28	22 3.16	- 5 59.7	1.493	2.386	13.8	21.2
336096	2008 <i>HQ</i> ₅		8 27.3 164°86'	0°8'/28.1 17			357297	2002 <i>VT</i>					

EPHEMERIDES

8 27.3

8 27.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
334480	2002 <i>PF</i> ₁₉₇		8 27.3 102°06'	2°2/29.4	18		392147	2009 <i>HC</i> ₃₉		8 27.4 62°96'	2°4/24.9	16	
7 20	22 49.64	- 1 29.5	1.983	2.786	15.2	21.0	7 20	22 48.23	-12 51.0	1.881	2.727	14.2	20.8
7 30	22 45.36	- 1 37.2	1.911	2.800	12.2	20.8	7 30	22 44.31	-13 52.7	1.829	2.752	10.9	20.6
8 9	22 39.12	- 2 0.1	1.860	2.814	8.7	20.6	8 9	22 38.41	-15 2.6	1.801	2.776	7.1	20.4
8 19	22 31.43	- 2 36.2	1.834	2.827	4.9	20.4	8 19	22 31.10	-16 14.6	1.797	2.800	3.5	20.2
8 29	22 23.08	- 3 21.9	1.834	2.840	2.2	20.2	8 29	22 23.21	-17 21.9	1.821	2.824	2.9	20.3
9 8	22 14.97	- 4 11.9	1.863	2.853	4.5	20.4	9 8	22 15.67	-18 18.3	1.872	2.849	6.2	20.5
9 18	22 7.92	- 5 0.9	1.918	2.866	8.1	20.7	9 18	22 9.32	-18 59.9	1.950	2.873	9.6	20.8
9 28	22 2.63	- 5 44.0	1.998	2.878	11.5	20.9	9 28	22 4.80	-19 24.6	2.050	2.897	12.6	21.0
17611	Jožkakubík		8 27.3 200°29'	4°0/23.4	18		476231	2007 <i>VT</i> ₂₅		8 27.4 345°81'	4°5/31.0	16	
7 20	22 50.83	-21 1.4	2.310	3.155	12.0	18.3	7 20	22 45.17	+ 2 27.8	1.576	2.388	18.1	20.9
7 30	22 46.17	-21 41.7	2.235	3.153	9.3	18.2	7 30	22 42.60	+ 2 41.6	1.494	2.382	15.0	20.7
8 9	22 39.62	-22 23.4	2.183	3.152	6.5	18.0	8 9	22 37.71	+ 2 34.2	1.430	2.377	11.3	20.5
8 19	22 31.67	-23 1.5	2.158	3.150	4.3	17.8	8 19	22 30.96	+ 2 5.5	1.387	2.372	7.4	20.2
8 29	22 23.04	-23 30.6	2.160	3.148	4.5	17.9	8 29	22 23.21	+ 1 18.3	1.369	2.368	4.6	20.1
9 8	22 14.60	-23 46.9	2.190	3.146	6.9	18.0	9 8	22 15.55	+ 0 18.3	1.375	2.365	6.0	20.1
9 18	22 7.16	-23 48.2	2.246	3.144	9.7	18.2	9 18	22 9.04	- 0 47.0	1.406	2.362	9.7	20.3
9 28	22 1.40	-23 34.1	2.325	3.142	12.3	18.4	9 28	22 4.61	- 1 49.8	1.460	2.361	13.6	20.6
119341	2001 <i>SL</i> ₁₆₈		8 27.3 50°29'	4°5/30.9	18		511277	2014 <i>DA</i> ₂₀		8 27.4 119°58'	1°6/29.1	17	
7 20	22 48.10	+ 2 43.8	1.467	2.278	19.3	18.9	7 20	22 46.59	- 0 56.0	2.129	2.931	14.3	21.1
7 30	22 44.86	+ 2 51.6	1.401	2.289	15.8	18.7	7 30	22 42.94	- 1 37.1	2.052	2.941	11.4	20.9
8 9	22 39.15	+ 2 36.3	1.353	2.300	11.8	18.5	8 9	22 37.49	- 2 34.8	1.996	2.951	8.0	20.7
8 19	22 31.56	+ 1 58.6	1.326	2.311	7.6	18.3	8 19	22 30.71	- 3 46.2	1.965	2.960	4.4	20.5
8 29	22 23.07	+ 1 2.4	1.323	2.323	4.6	18.1	8 29	22 23.28	- 5 6.2	1.961	2.969	1.6	20.3
9 8	22 14.86	- 0 5.3	1.345	2.335	6.0	18.3	9 8	22 16.01	- 6 28.6	1.987	2.978	4.2	20.5
9 18	22 8.03	- 1 16.1	1.392	2.347	9.9	18.5	9 18	22 9.66	- 7 47.0	2.040	2.986	7.8	20.8
9 28	22 3.44	- 2 22.0	1.462	2.360	13.8	18.8	9 28	22 4.90	- 8 56.1	2.119	2.995	11.1	21.0
129240	2005 <i>QK</i> ₅		8 27.3 317°46'	0°2/27.2	18		249715	2000 <i>QE</i> ₁₇₉		8 27.4 24°83'	4°9/30.3	17	
7 20	22 47.77	- 8 52.9	1.323	2.183	18.3	19.7	7 20	22 47.75	- 0 12.4	1.001	1.856	23.3	19.8
7 30	22 45.27	- 9 0.3	1.237	2.164	14.5	19.5	7 30	22 45.52	+ 0 24.7	0.949	1.865	19.0	19.6
8 9	22 39.89	- 9 22.7	1.169	2.145	9.9	19.1	8 9	22 40.06	+ 0 36.2	0.912	1.875	13.9	19.4
8 19	22 32.11	- 9 56.5	1.123	2.127	4.7	18.8	8 19	22 32.12	+ 0 22.1	0.893	1.886	8.6	19.1
8 29	22 22.92	-10 35.9	1.100	2.109	1.1	18.5	8 29	22 23.01	- 0 13.6	0.895	1.899	4.9	19.0
9 8	22 13.71	-11 13.2	1.101	2.092	6.8	18.8	9 8	22 14.37	- 1 2.8	0.919	1.913	7.2	19.2
9 18	22 5.88	-11 41.7	1.126	2.076	12.2	19.1	9 18	22 7.66	- 1 55.7	0.965	1.927	12.1	19.5
9 28	22 0.63	-11 56.2	1.171	2.061	17.0	19.3	9 28	22 3.93	- 2 43.0	1.030	1.943	16.7	19.8
397646	2007 <i>XD</i> ₄₈		8 27.3 289°09'	3°4/24.2	18		254552	2005 <i>EF</i> ₂₄₅		8 27.4 194°10'	2°3/25.5	17	
7 20	22 47.91	-15 57.6	1.907	2.760	13.8	21.3	7 20	22 53.43	-13 5.8	1.818	2.658	15.0	21.4
7 30	22 44.45	-16 50.2	1.820	2.745	10.7	21.1	7 30	22 48.71	-13 49.2	1.739	2.656	11.6	21.1
8 9	22 38.80	-17 50.7	1.754	2.730	7.2	20.8	8 9	22 41.64	-14 42.1	1.681	2.654	7.7	20.9
8 19	22 31.42	-18 53.2	1.714	2.714	4.1	20.6	8 19	22 32.73	-15 38.9	1.648	2.651	3.8	20.7
8 29	22 23.09	-19 50.9	1.700	2.699	4.0	20.6	8 29	22 22.88	-16 32.9	1.643	2.648	2.8	20.6
9 8	22 14.79	-20 37.0	1.713	2.683	7.2	20.7	9 8	22 13.18	-17 17.6	1.665	2.643	6.6	20.8
9 18	22 7.52	-21 7.2	1.751	2.668	10.9	20.9	9 18	22 4.70	-17 48.3	1.713	2.639	10.6	21.0
9 28	22 2.14	-21 19.1	1.811	2.653	14.3	21.1	9 28	21 58.30	-18 2.8	1.785	2.633	14.1	21.3
25783	Brandontyler		8 27.3 331°24'	4°3/23.5	18		511629	2015 <i>BX</i> ₁₀₁		8 27.4 217°10'	0°0/27.4	17	
7 20	22 44.24	-15 36.5	1.529	2.400	15.7	17.5	7 20	22 50.49	- 6 12.6	1.905	2.727	15.0	22.4
7 30	22 42.08	-16 51.2	1.452	2.387	12.1	17.2	7 30	22 46.39	- 6 52.8	1.814	2.720	11.9	22.2
8 9	22 37.46	-18 17.0	1.396	2.375	8.2	17.0	8 9	22 40.08	- 7 48.2	1.745	2.711	8.1	21.9
8 19	22 30.87	-19 46.3	1.363	2.364	4.8	16.8	8 19	22 32.03	- 8 55.1	1.700	2.702	3.8	21.7
8 29	22 23.19	-21 9.3	1.356	2.353	5.1	16.7	8 29	22 23.02	-10 7.5	1.683	2.693	0.7	21.4
9 8	22 15.61	-22 16.7	1.373	2.343	8.7	16.9	9 8	22 14.04	-11 18.5	1.694	2.682	5.3	21.7
9 18	22 9.27	-23 2.3	1.414	2.333	12.8	17.1	9 18	22 6.07	-12 21.7	1.732	2.671	9.5	22.0
9 28	22 5.13	-23 23.4	1.475	2.325	16.5	17.4	9 28	22 0.00	-13 11.9	1.794	2.659	13.3	22.2
304200	2006 <i>QJ</i> ₁₀₂		8 27.4 332°18'	0°8/27.9	18		271781	2004 <i>TZ</i> ₂₆		8 27.4 40°36'	1°8/28.8	16	
7 20	22 49.41	- 6 35.1	1.921	2.747	14.8	21.0	7 20	22 47.36	- 2 52.7	1.475	2.309	18.1	20.5
7 30	22 45.39	- 6 38.6	1.839	2.745	11.7	20.8	7 30	22 44.29	- 3 9.5	1.409	2.318	14.4	20.3
8 9	22 39.28	- 6 53.8	1.779	2.744	8.0	20.6	8 9	22 38.77	- 3 45.5	1.362	2.327	10.1	20.1
8 19	22 31.59	- 7 18.4	1.742	2.743	4.0	20.4	8 19	22 31.41	- 4 37.8	1.338	2.337	5.3	19.8
8 29	22 23.08	- 7 48.3	1.732	2.742	0.9	20.1	8 29	22 23.16	- 5 40.5	1.338	2.347	1.8	19.6
9 8	22 14.72	- 8 18.9	1.750	2.741	4.8	20.4	9 8	22 15.19	- 6 45.7	1.364	2.357	5.5	19.9
9 18	22 7.42	- 8 45.7	1.794	2.740	8.8	20.7	9 18	22 8.58	- 7 46.2	1.415	2.368	10.0	20.2
9 28	22 1.95	- 9 5.0	1.863	2.739	12.4	20.9	9 28	22 4.18	- 8 35.5	1.488	2.379	14.0	20.4
75125	1999 <i>VY</i> ₆₄		8 27.4 238°96'	4°4/23.9	18		479261	2013 <i>EP</i> ₁₁₀		8 27.4 159°56'	3°8/22.6	18	
7 20	22 52.61	-17 42.3	1.603	2.460	15.8	19.7	7 20	22 47.83	-19 50.0	2.620	3.463	10.8	22.0
7 30	22 48.47	-18 36.0	1.528	2.454	12.3	19.5	7 30	22 43.65	-20 57.8	2.550	3.468	8.3	21.8
8 9	22 41.68	-19 36.5	1.473	2.448	8.4	19.3	8 9	22 37.85	-22 8.3	2.504	3.473	5.8	21.7
8 19	22 32.80	-20 36.5	1.443	2.442	5.0	19.1	8 19	22 30.85	-23 16.4	2.486	3.478	4.0	21.5
8 29	22 22.84	-21 27.7	1.439	2.435	5.0	19.0	8 29	22 23.27	-24 16.5	2.496	3.482	4.3	21.6
9 8	22 13.06	-22 2.8	1.460	2.428	8.5	19.2	9 8	22 15.83	-25 4.3	2.535	3.485	6.5	21.7
9 18	22 4.68	-22 17.8	1.506	2.421	12.5	19.5	9 18	22 9.21	-25 36.9	2.600	3.488	8.9	21.9
9 28	21 58.66	-22 11.9	1.573	2.414	16.1	19.7	9 28	22 4.00	-25 53.4	2.689	3.491	11.3	22.1
387933	2005 <i>CD</i> ₃₄		8 27.4 232°72'	2°1/25.3	18		424502	2008 <i>DD</i> ₆₈		8 27.4 153°29'	2°5/		

EPHEMERIDES

8 27.4

8 27.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
91001	1998 BY ₈		8 27.4 233°65	0°4/27.7	18		212869	2007 VW ₁₅₂		8 27.4 238°53	2°9/24.6	18	
7 20	22 54.47	- 8 34.9	1.905	2.727	15.0	19.3	7 20	22 48.95	-15 29.2	1.998	2.846	13.5	20.3
7 30	22 49.43	- 8 26.9	1.815	2.720	11.9	19.1	7 30	22 45.03	-16 15.5	1.922	2.844	10.4	20.1
8 9	22 42.09	- 8 28.2	1.747	2.713	8.1	18.8	8 9	22 39.05	-17 8.5	1.867	2.842	7.0	19.8
8 19	22 32.96	- 8 36.6	1.703	2.705	3.9	18.6	8 19	22 31.51	-18 2.8	1.838	2.839	3.7	19.6
8 29	22 22.86	- 8 48.5	1.687	2.697	0.7	18.3	8 29	22 23.19	-18 52.4	1.837	2.837	3.4	19.6
9 8	22 12.87	- 8 59.9	1.699	2.689	5.1	18.6	9 8	22 15.02	-19 31.5	1.862	2.835	6.5	19.8
9 18	22 4.00	- 9 7.3	1.738	2.680	9.3	18.9	9 18	22 7.91	-19 56.4	1.913	2.832	10.0	20.0
9 28	21 57.13	- 9 7.8	1.802	2.671	13.0	19.1	9 28	22 2.61	-20 5.3	1.988	2.830	13.1	20.2
5986	Xenophon		8 27.4	4°19 6°6/	1.3 18		380763	2005 TQ ₈₇		8 27.4 279°79	2°1/25.7	18	
7 20	22 45.57	+ 5 25.6	1.270	2.086	21.5	16.1	7 20	22 50.45	-12 27.7	1.648	2.498	15.8	21.7
7 30	22 43.41	+ 5 58.4	1.199	2.085	18.0	15.8	7 30	22 46.84	-13 2.6	1.557	2.480	12.4	21.5
8 9	22 38.52	+ 6 4.4	1.144	2.085	14.0	15.6	8 9	22 40.68	-13 48.8	1.486	2.461	8.3	21.2
8 19	22 31.42	+ 5 41.7	1.109	2.086	9.9	15.4	8 19	22 32.44	-14 41.3	1.439	2.443	4.0	20.9
8 29	22 23.16	+ 4 52.2	1.094	2.088	6.9	15.2	8 29	22 23.00	-15 33.0	1.418	2.424	2.7	20.8
9 8	22 15.07	+ 3 42.5	1.103	2.090	7.6	15.3	9 8	22 13.54	-16 16.8	1.423	2.406	6.9	21.0
9 18	22 8.43	+ 2 22.3	1.135	2.094	11.2	15.5	9 18	22 5.26	-16 47.0	1.454	2.387	11.5	21.2
9 28	22 4.29	+ 1 2.5	1.188	2.098	15.3	15.7	9 28	21 59.18	-17 0.2	1.506	2.368	15.5	21.4
225048	2007 GV ₁₈		8 27.4	55°54 3°6/31.5	18		186805	2004 EW ₆₁		8 27.4 251°25	1°7/28.9	18	
7 20	22 44.94	+ 3 57.0	2.373	3.147	13.8	20.6	7 20	22 48.67	- 2 14.8	1.705	2.524	16.7	21.4
7 30	22 41.53	+ 3 54.9	2.287	3.150	11.4	20.4	7 30	22 45.27	- 2 38.7	1.614	2.513	13.4	21.1
8 9	22 36.50	+ 3 36.7	2.221	3.154	8.6	20.2	8 9	22 39.51	- 3 21.7	1.542	2.502	9.5	20.9
8 19	22 30.26	+ 3 3.1	2.180	3.157	5.8	20.0	8 19	22 31.86	- 4 21.6	1.493	2.490	5.1	20.6
8 29	22 23.41	+ 2 16.3	2.165	3.161	3.7	19.9	8 29	22 23.13	- 5 33.4	1.470	2.478	1.7	20.3
9 8	22 16.66	+ 1 20.5	2.178	3.164	4.5	20.0	9 8	22 14.39	- 6 49.8	1.474	2.466	5.3	20.5
9 18	22 10.70	+ 0 20.7	2.218	3.168	7.1	20.2	9 18	22 6.74	- 8 2.9	1.504	2.453	9.8	20.8
9 28	22 6.13	- 0 38.1	2.285	3.171	10.0	20.3	9 28	22 1.11	- 9 6.0	1.558	2.441	14.0	21.0
136585	1992 SG ₁₉		8 27.4	271°16 0°4/27.7	18		79217	1994 JR ₄		8 27.4 343°50	2°0/28.7	18 R	
7 20	22 51.92	- 8 16.2	2.179	2.998	13.5	19.8	7 20	22 43.10	- 3 51.0	1.123	1.988	20.6	18.5
7 30	22 47.30	- 8 14.7	2.073	2.976	10.7	19.5	7 30	22 41.90	- 3 51.3	1.050	1.976	16.6	18.2
8 9	22 40.62	- 8 22.2	1.989	2.954	7.4	19.3	8 9	22 37.75	- 4 13.8	0.993	1.966	11.7	17.9
8 19	22 32.29	- 8 36.7	1.931	2.932	3.6	19.0	8 19	22 31.18	- 4 56.9	0.956	1.957	6.2	17.5
8 29	22 23.00	- 8 54.7	1.900	2.909	0.7	18.7	8 29	22 23.26	- 5 54.6	0.940	1.949	2.0	17.3
9 8	22 13.65	- 9 12.6	1.897	2.886	4.7	19.0	9 8	22 15.44	- 6 57.7	0.947	1.943	6.6	17.5
9 18	22 5.16	- 9 26.7	1.923	2.863	8.6	19.2	9 18	22 9.17	- 7 56.6	0.976	1.938	12.2	17.8
9 28	21 58.35	- 9 33.9	1.973	2.840	12.2	19.4	9 28	22 5.61	- 8 42.8	1.025	1.934	17.2	18.1
163834	2003 SM ₃₆		8 27.4	44°91 3°9/25.1	18		478778	2012 UR ₁₃₂		8 27.4 310°32	1°5/28.4	18	
7 20	22 56.65	-19 11.8	1.515	2.371	16.6	19.2	7 20	22 49.00	- 5 43.5	1.579	2.415	17.0	20.5
7 30	22 51.37	-19 22.2	1.458	2.383	12.9	19.0	7 30	22 45.77	- 5 33.5	1.485	2.396	13.6	20.2
8 9	22 43.40	-19 34.5	1.423	2.396	8.8	18.8	8 9	22 40.01	- 5 37.5	1.411	2.378	9.6	20.0
8 19	22 33.49	-19 43.0	1.410	2.410	4.9	18.6	8 19	22 32.15	- 5 53.8	1.359	2.359	5.0	19.7
8 29	22 22.81	-19 41.7	1.424	2.424	4.4	18.6	8 29	22 23.06	- 6 19.0	1.332	2.341	1.5	19.4
9 8	22 12.70	-19 27.0	1.463	2.438	7.7	18.8	9 8	22 13.94	- 6 47.8	1.331	2.324	5.7	19.6
9 18	22 4.30	-18 57.7	1.528	2.453	11.6	19.1	9 18	22 5.96	- 7 14.4	1.355	2.306	10.5	19.8
9 28	21 58.44	-18 14.8	1.614	2.468	15.1	19.3	9 28	22 0.19	- 7 33.9	1.401	2.290	14.8	20.1
385795	2006 BJ ₂₆₅		8 27.4	263°20 0°2/27.2	18		18307	1981 ER ₁₀		8 27.4 344°06	2°4/28.8	18 R	
7 20	22 52.40	- 9 7.4	1.955	2.782	14.6	22.5	7 20	22 45.60	- 4 0.1	1.118	1.979	20.9	17.5
7 30	22 47.95	- 9 18.9	1.852	2.761	11.5	22.2	7 30	22 43.86	- 3 48.7	1.046	1.970	16.8	17.2
8 9	22 41.22	- 9 40.9	1.771	2.739	7.8	22.0	8 9	22 39.09	- 3 58.3	0.991	1.962	11.9	16.9
8 19	22 32.62	-10 10.5	1.715	2.717	3.7	21.7	8 19	22 31.80	- 4 27.4	0.955	1.955	6.5	16.5
8 29	22 22.94	-10 43.3	1.686	2.695	0.9	21.4	8 29	22 23.14	- 5 10.9	0.941	1.949	2.4	16.3
9 8	22 13.18	-11 14.2	1.684	2.672	5.4	21.7	9 8	22 14.62	- 6 0.8	0.949	1.944	6.7	16.5
9 18	22 4.39	-11 38.6	1.710	2.649	9.7	21.9	9 18	22 7.72	- 6 48.1	0.980	1.941	12.2	16.8
9 28	21 57.49	-11 53.0	1.760	2.625	13.5	22.1	9 28	22 3.62	- 7 25.1	1.030	1.938	17.2	17.1
139025	2001 DR ₇₁		8 27.4	101°17 0°2/27.6	18		212795	Fangjiancheng		8 27.4 325°26	1°5/26.3	18	
7 20	22 50.35	- 5 12.1	1.583	2.415	17.2	20.0	7 20	22 45.20	- 8 38.0	1.178	2.049	19.4	20.1
7 30	22 46.42	- 5 57.8	1.519	2.429	13.4	19.8	7 30	22 43.50	- 9 26.1	1.103	2.037	15.2	19.8
8 9	22 40.10	- 7 0.9	1.476	2.444	9.1	19.6	8 9	22 38.83	-10 34.9	1.046	2.027	10.2	19.5
8 19	22 32.01	- 8 16.4	1.456	2.458	4.3	19.3	8 19	22 31.70	-11 58.5	1.011	2.016	4.7	19.1
8 29	22 23.09	- 9 37.1	1.462	2.472	0.8	19.1	8 29	22 23.18	-13 26.8	0.998	2.006	2.2	19.0
9 8	22 14.49	-10 54.5	1.496	2.486	5.6	19.5	9 8	22 14.76	-14 47.9	1.009	1.997	7.8	19.3
9 18	22 7.25	-12 1.5	1.555	2.499	10.0	19.8	9 18	22 7.88	-15 52.2	1.042	1.989	13.3	19.6
9 28	22 2.18	-12 53.0	1.638	2.512	13.9	20.1	9 28	22 3.72	-16 33.3	1.094	1.982	18.2	19.8
319062	2005 WZ ₂₄		8 27.4	330°36 2°9/30.1	18		516074	2015 TB ₂₈₃		8 27.4 268°03	3°9/31.7	18	
7 20	22 46.96	- 0 18.3	2.093	2.893	14.6	21.2	7 20	22 45.01	+ 4 45.1	2.345	3.116	14.1	21.5
7 30	22 43.37	- 0 9.3	2.005	2.889	11.9	21.0	7 30	22 41.68	+ 4 41.4	2.252	3.112	11.7	21.3
8 9	22 37.89	- 0 14.9	1.937	2.885	8.7	20.8	8 9	22 36.68	+ 4 20.7	2.179	3.109	8.9	21.2
8 19	22 30.97	- 0 34.3	1.893	2.882	5.3	20.6	8 19	22 30.41	+ 3 43.4	2.130	3.105	6.0	21.0
8 29	22 23.29	- 1 5.0	1.876	2.879	3.0	20.5	8 29	22 23.47	+ 2 51.7	2.108	3.102	4.0	20.8
9 8	22 15.68	- 1 43.0	1.886	2.875	4.6	20.6	9 8	22 16.58	+ 1 49.9	2.113	3.098	4.7	20.9
9 18	22 8.98	- 2 23.5	1.922	2.872	8.0	20.8	9 18	22 10.46	+ 0 43.2	2.146	3.095	7.3	21.0
9 28	22 3.89	- 3 1.6	1.984	2.870	11.3	21.0	9 28	22 5.75	- 0 22.7	2.204	3.091	10.2	21.2
203698	2002 OT ₂₁		8 27.4	69°87 2°2/29.2	18		191075	2002 CM ₂₀₈		8 27.4 317°00	0°1/27.3	18	
7 20	22 50.34	- 3 1.0	1.825										

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
243253	2007 <i>WS</i> ₁₉		8 27.4 357°08	1°8/25.9	18		332477	2008 <i>ED</i> ₈₃		8 27.4 112°27	2°3/29.1	17	R
7 20	22 46.29	-11 3.5	1.652	2.506	15.6	20.2	7 20	22 53.35	-3 11.7	1.626	2.444	17.4	20.7
7 30	22 43.36	-11 47.5	1.579	2.504	12.1	20.0	7 30	22 48.76	-3 3.2	1.555	2.453	13.9	20.5
8 9	22 38.15	-12 43.5	1.526	2.503	8.0	19.8	8 9	22 41.73	-3 10.5	1.503	2.461	9.9	20.3
8 19	22 31.18	-13 46.3	1.497	2.502	3.7	19.5	8 19	22 32.84	-3 31.9	1.474	2.470	5.4	20.0
8 29	22 23.32	-14 48.7	1.494	2.501	2.3	19.4	8 29	22 23.06	-4 3.6	1.471	2.478	2.3	19.9
9 8	22 15.64	-15 43.4	1.518	2.501	6.4	19.7	9 8	22 13.54	-4 40.1	1.495	2.487	5.3	20.1
9 18	22 9.15	-16 24.9	1.566	2.502	10.6	19.9	9 18	22 5.37	-5 15.7	1.545	2.494	9.6	20.4
9 28	22 4.69	-16 49.7	1.636	2.503	14.3	20.2	9 28	21 59.42	-5 45.4	1.618	2.502	13.5	20.6
117713	Kövesligethy		8 27.4 101°29	1°8/25.9	17		448630	2010 <i>VB</i> ₁₉		8 27.4 318°55	2°3/30.9	17	
7 20	22 53.82	-11 34.9	1.565	2.410	16.7	20.8	7 20	22 56.97	-51 16.5	0.943	1.802	24.0	19.7
7 30	22 49.13	-12 14.7	1.507	2.427	12.9	20.6	7 30	22 56.18	-54 53.0	0.925	1.794	23.5	19.6
8 9	22 41.92	-13 5.3	1.469	2.443	8.5	20.4	8 9	22 49.35	-57 53.8	0.922	1.786	23.9	19.6
8 19	22 32.87	-14 0.8	1.455	2.459	3.9	20.1	8 19	22 37.17	-59 58.3	0.933	1.778	25.0	19.7
8 29	22 23.01	-14 53.8	1.467	2.474	2.4	20.1	8 29	22 22.21	-60 52.1	0.957	1.771	26.5	19.7
9 8	22 13.58	-15 37.6	1.506	2.489	6.6	20.4	9 8	22 8.30	-60 33.2	0.991	1.765	28.2	19.9
9 18	22 5.64	-16 7.5	1.571	2.504	10.8	20.7	9 18	21 58.61	-59 9.7	1.034	1.759	29.9	20.0
9 28	22 0.02	-16 21.3	1.658	2.518	14.4	20.9	9 28	21 54.69	-56 54.9	1.084	1.753	31.4	20.1
475461	2006 <i>RM</i> ₁₁₅		8 27.4 210°55	4°6/23.2	18		76612	2000 <i>GB</i> ₁₆₇		8 27.4 169°66	2°7/29.6	18	
7 20	22 54.04	-23 4.8	2.286	3.127	12.2	21.1	7 20	22 54.53	-2 9.0	2.273	3.060	14.0	20.0
7 30	22 48.74	-23 39.8	2.209	3.123	9.6	20.9	7 30	22 49.03	-1 39.8	2.185	3.062	11.3	19.8
8 9	22 41.42	-24 14.5	2.155	3.119	6.9	20.8	8 9	22 41.60	-1 21.6	2.118	3.064	8.2	19.6
8 19	22 32.60	-24 43.6	2.127	3.115	4.8	20.6	8 19	22 32.72	-1 14.0	2.078	3.066	4.9	19.4
8 29	22 23.06	-25 1.9	2.127	3.111	5.1	20.6	8 29	22 23.09	-1 15.3	2.065	3.068	2.7	19.3
9 8	22 13.73	-25 5.7	2.154	3.106	7.3	20.8	9 8	22 13.59	-1 22.9	2.081	3.069	4.5	19.4
9 18	22 5.48	-24 53.5	2.209	3.101	10.1	20.9	9 18	22 5.05	-1 33.7	2.126	3.070	7.8	19.6
9 28	21 59.03	-24 25.6	2.286	3.096	12.7	21.1	9 28	21 58.18	-1 44.1	2.197	3.070	10.9	19.8
452639	2005 <i>UY</i> ₆		8 27.4 104°42	0°8/26.5	16		23069	Kapps		8 27.4 339°06	0°9/26.5	18	
7 20	23 2.88	-9 43.4	2.798	3.582	11.7	23.9	7 20	22 46.51	-10 7.0	2.171	3.006	13.0	19.0
7 30	22 54.68	-10 31.1	2.742	3.628	9.0	23.8	7 30	22 42.96	-10 37.3	2.090	3.004	10.1	18.8
8 9	22 44.89	-11 25.4	2.711	3.671	5.9	23.7	8 9	22 37.60	-11 17.0	2.031	3.002	6.7	18.6
8 19	22 34.03	-12 22.1	2.712	3.713	2.7	23.5	8 19	22 30.87	-12 2.5	1.997	3.000	3.1	18.4
8 29	22 22.82	-13 16.9	2.745	3.753	1.2	23.4	8 29	22 23.46	-12 49.0	1.990	2.999	1.3	18.3
9 8	22 12.01	-14 5.7	2.811	3.790	4.2	23.7	9 8	22 16.16	-13 31.5	2.012	2.997	4.9	18.5
9 18	22 2.29	-14 45.4	2.910	3.827	7.1	24.0	9 18	22 9.76	-14 5.8	2.060	2.996	8.4	18.7
9 28	21 54.20	-15 14.4	3.036	3.861	9.5	24.2	9 28	22 4.93	-14 28.9	2.133	2.995	11.6	18.9
243330	2008 <i>TT</i> ₁₈		8 27.4 281°50	1°9/25.8	18		314556	2005 <i>YU</i> ₁₅₅		8 27.4 162°39	5°5/2.7	18	
7 20	22 50.63	-12 38.0	1.825	2.669	14.7	21.2	7 20	22 49.40	+10 13.0	2.911	3.624	12.8	20.7
7 30	22 46.79	-13 8.4	1.726	2.646	11.6	20.9	7 30	22 44.71	+10 50.9	2.818	3.628	11.0	20.5
8 9	22 40.57	-13 48.8	1.648	2.622	7.8	20.6	8 9	22 38.55	+11 14.6	2.746	3.631	9.0	20.4
8 19	22 32.40	-14 34.7	1.595	2.599	3.7	20.3	8 19	22 31.27	+11 22.8	2.697	3.635	7.0	20.3
8 29	22 23.08	-15 20.0	1.568	2.575	2.4	20.2	8 29	22 23.40	+11 15.8	2.676	3.638	5.6	20.2
9 8	22 13.68	-15 58.3	1.569	2.551	6.5	20.4	9 8	22 15.58	+10 55.2	2.682	3.640	5.7	20.2
9 18	22 5.30	-16 24.7	1.595	2.526	10.8	20.6	9 18	22 8.43	+10 24.0	2.716	3.643	7.1	20.3
9 28	21 58.94	-16 36.0	1.643	2.502	14.6	20.8	9 28	22 2.51	+9 46.4	2.776	3.645	9.0	20.4
336579	2009 <i>SL</i> ₁₈₃		8 27.4 94°71	1°3/28.3	17		424434	2008 <i>CB</i> ₇		8 27.4 167°88	1°3/26.3	17	
7 20	22 53.24	-5 33.2	1.629	2.455	17.0	20.9	7 20	22 50.70	-9 21.9	1.701	2.541	15.8	21.8
7 30	22 48.63	-5 31.8	1.561	2.466	13.5	20.7	7 30	22 46.73	-10 12.4	1.627	2.543	12.3	21.6
8 9	22 41.59	-5 44.5	1.513	2.477	9.3	20.5	8 9	22 40.41	-11 16.7	1.573	2.546	8.2	21.4
8 19	22 32.75	-6 8.7	1.489	2.488	4.7	20.2	8 19	22 32.27	-12 29.3	1.544	2.548	3.7	21.1
8 29	22 23.06	-6 40.0	1.490	2.499	1.3	20.0	8 29	22 23.21	-13 42.9	1.542	2.549	1.9	21.0
9 8	22 13.69	-7 12.8	1.519	2.510	5.3	20.3	9 8	22 14.33	-14 49.6	1.566	2.551	6.2	21.3
9 18	22 5.69	-7 41.9	1.573	2.520	9.6	20.6	9 18	22 6.68	-15 43.4	1.617	2.551	10.4	21.5
9 28	21 59.90	-8 3.2	1.651	2.531	13.5	20.9	9 28	22 1.12	-16 20.5	1.691	2.552	14.2	21.8
208875	2002 <i>TV</i> ₄₃		8 27.4 3°54	4°4/31.3	18		353857	2012 <i>VP</i> ₉₂		8 27.4 8°30	2°3/25.5	18	
7 20	22 43.49	+3 17.8	1.532	2.345	18.5	19.1	7 20	22 46.86	-12 9.0	1.519	2.379	16.4	20.4
7 30	22 41.33	+3 18.3	1.455	2.344	15.3	18.9	7 30	22 44.00	-12 54.7	1.451	2.380	12.6	20.1
8 9	22 36.88	+2 55.3	1.397	2.344	11.5	18.7	8 9	22 38.69	-13 52.1	1.403	2.381	8.4	19.9
8 19	22 30.63	+2 9.4	1.360	2.345	7.5	18.5	8 19	22 31.49	-14 55.2	1.379	2.383	4.0	19.6
8 29	22 23.45	+1 4.2	1.347	2.347	4.5	18.3	8 29	22 23.37	-15 56.2	1.379	2.385	2.9	19.6
9 8	22 16.42	-0 13.3	1.359	2.350	5.8	18.4	9 8	22 15.49	-16 47.4	1.406	2.388	7.0	19.8
9 18	22 10.57	-1 34.5	1.395	2.353	9.6	18.6	9 18	22 8.92	-17 23.3	1.456	2.392	11.3	20.1
9 28	22 6.77	-2 50.8	1.455	2.357	13.5	18.9	9 28	22 4.56	-17 40.9	1.528	2.396	15.1	20.4
15730	1990 <i>UA</i> ₁		8 27.4 252°39	6°5/2.7	18		38222	1999 <i>NP</i> ₃₁		8 27.4 13°41	2°2/25.7	18	R
7 20	22 47.67	+10 4.9	2.105	2.848	16.3	17.4	7 20	22 46.99	-11 40.2	1.406	2.270	17.2	18.2
7 30	22 44.08	+10 28.9	2.005	2.837	14.0	17.2	7 30	22 44.26	-12 23.4	1.341	2.272	13.3	18.0
8 9	22 38.52	+10 32.7	1.924	2.826	11.4	17.0	8 9	22 38.95	-13 19.5	1.296	2.275	8.8	17.7
8 19	22 31.37	+10 14.3	1.864	2.814	8.7	16.8	8 19	22 31.64	-14 22.1	1.274	2.279	4.1	17.5
8 29	22 23.31	+9 34.1	1.828	2.802	6.7	16.7	8 29	22 23.36	-15 23.0	1.276	2.283	2.8	17.4
9 8	22 15.21	+8 35.4	1.819	2.790	6.8	16.6	9 8	22 15.36	-16 14.1	1.304	2.288	7.1	17.7
9 18	22 7.95	+7 23.7	1.836	2.778	8.9	16.7	9 18	22 8.79	-16 49.5	1.355	2.293	11.7	18.0
9 28	22 2.35	+6 6.2	1.879	2.765	11.8	16.9	9 28	22 4.57	-17 6.2	1.427	2.300	15.6	18.2
266480	2008 <i>CS</i> ₄₄		8 27.4 125°96	1°7/25.9	18		469847	2005 <i>TJ</i> ₁₀₈		8 27.4 279°48	1°2/28.3	17	
7 20	22 52.												

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
474192	1999 YS ₁₈		8 27.4 292°35	1.2/26.4	18		3237	Victorplatt		8 27.4 70°36	4.0/31.2	18	
7 20	22 47.87	-9 53.3	1.797	2.640	15.0	22.1	7 20	22 48.46	+2 40.8	2.158	2.939	14.8	15.3
7 30	22 44.67	-10 28.6	1.698	2.617	11.8	21.9	7 30	22 44.45	+3 0.0	2.077	2.945	12.2	15.2
8 9	22 39.18	-11 17.0	1.620	2.594	7.9	21.6	8 9	22 38.60	+3 3.6	2.016	2.951	9.2	15.0
8 19	22 31.81	-12 14.4	1.566	2.570	3.7	21.3	8 19	22 31.37	+2 51.9	1.980	2.958	6.1	14.8
8 29	22 23.31	-13 14.7	1.539	2.547	1.7	21.1	8 29	22 23.46	+2 26.7	1.969	2.964	4.0	14.7
9 8	22 14.73	-14 10.9	1.538	2.523	6.1	21.3	9 8	22 15.69	+1 51.6	1.986	2.971	5.0	14.8
9 18	22 7.13	-14 56.8	1.562	2.500	10.5	21.5	9 18	22 8.84	+1 11.2	2.030	2.978	7.8	15.0
9 28	22 1.47	-15 28.0	1.610	2.477	14.5	21.7	9 28	22 3.59	+0 30.5	2.099	2.984	10.8	15.2
137549	1999 VW ₇₇		8 27.4 316°02	2.9/25.6	18		477932	2011 QN ₆₂		8 27.4 98°39	0.6/27.9	18	
7 20	22 48.13	-13 31.4	1.228	2.102	18.5	19.9	7 20	22 51.83	-7 21.1	1.970	2.792	14.7	21.3
7 30	22 45.96	-13 58.2	1.141	2.078	14.6	19.6	7 30	22 47.16	-7 23.1	1.897	2.801	11.5	21.1
8 9	22 40.67	-14 37.7	1.073	2.054	9.9	19.3	8 9	22 40.45	-7 35.8	1.845	2.810	7.8	20.9
8 19	22 32.71	-15 24.3	1.027	2.031	4.9	18.9	8 19	22 32.23	-7 56.3	1.819	2.820	3.8	20.7
8 29	22 23.13	-16 9.1	1.003	2.009	3.5	18.8	8 29	22 23.31	-8 21.0	1.819	2.829	0.7	20.5
9 8	22 13.45	-16 43.1	1.002	1.987	8.6	19.0	9 8	22 14.62	-8 45.5	1.848	2.838	4.7	20.8
9 18	22 5.27	-16 59.5	1.023	1.966	14.0	19.2	9 18	22 7.05	-9 5.8	1.903	2.847	8.5	21.1
9 28	21 59.91	-16 54.8	1.063	1.946	18.9	19.4	9 28	22 1.32	-9 18.8	1.983	2.855	11.9	21.3
10245	Inselsberg		8 27.4 151°98	2.8/30.5	18		432830	2011 HT ₁₅		8 27.4 20°32	3.5/25.4	17	
7 20	22 47.14	+1 50.0	2.212	2.998	14.4	18.1	7 20	22 51.85	-16 46.2	1.238	2.112	18.5	19.7
7 30	22 43.39	+1 32.6	2.127	3.002	11.7	17.9	7 30	22 48.28	-16 58.5	1.184	2.119	14.3	19.5
8 9	22 37.87	+0 58.5	2.064	3.006	8.6	17.8	8 9	22 41.71	-17 16.5	1.149	2.128	9.6	19.3
8 19	22 31.02	+0 9.0	2.024	3.010	5.3	17.6	8 19	22 32.93	-17 33.9	1.135	2.138	5.0	19.0
8 29	22 23.49	-0 52.4	2.012	3.014	2.9	17.4	8 29	22 23.19	-17 43.6	1.145	2.149	4.0	19.0
9 8	22 16.07	-2 0.6	2.028	3.017	4.4	17.5	9 8	22 14.00	-17 40.2	1.179	2.161	8.1	19.3
9 18	22 9.53	-3 9.7	2.071	3.020	7.6	17.7	9 18	22 6.64	-17 21.4	1.236	2.174	12.6	19.6
9 28	22 4.51	-4 14.3	2.140	3.023	10.7	17.9	9 28	22 2.02	-16 47.2	1.314	2.188	16.6	19.9
220194	2002 VK ₁₇		8 27.4 268°48	3.7/24.3	18		340384	2006 DL ₂₀₇		8 27.4 319°27	2.6/29.6	18	
7 20	22 51.11	-15 39.0	1.695	2.549	15.3	20.4	7 20	22 46.98	-1 13.8	1.638	2.459	17.2	20.6
7 30	22 47.38	-16 34.8	1.605	2.530	11.9	20.2	7 30	22 44.01	-1 17.8	1.553	2.452	13.9	20.4
8 9	22 41.10	-17 40.5	1.536	2.511	8.1	19.9	8 9	22 38.72	-1 40.5	1.487	2.445	10.0	20.2
8 19	22 32.73	-18 49.4	1.491	2.491	4.5	19.6	8 19	22 31.57	-2 20.5	1.444	2.438	5.8	19.9
8 29	22 23.14	-19 53.3	1.472	2.472	4.3	19.6	8 29	22 23.42	-3 13.9	1.425	2.431	2.6	19.7
9 8	22 13.52	-20 44.3	1.480	2.452	8.0	19.8	9 8	22 15.33	-4 14.3	1.433	2.425	5.3	19.8
9 18	22 5.07	-21 16.8	1.512	2.431	12.2	20.0	9 18	22 8.37	-5 14.5	1.466	2.419	9.6	20.1
9 28	21 58.81	-21 28.5	1.566	2.411	16.0	20.2	9 28	22 3.45	-6 7.9	1.522	2.414	13.7	20.3
2384	Schulhof		8 27.4 101°99	4.9/23.8	18 R		19392	Oyamada		8 27.4 179°66	1.5/28.5	18	
7 20	22 57.25	-22 6.8	1.828	2.675	14.6	16.2	7 20	22 54.27	-5 18.6	1.602	2.426	17.3	18.8
7 30	22 51.53	-22 39.7	1.769	2.687	11.4	16.0	7 30	22 49.67	-5 11.8	1.523	2.427	13.8	18.5
8 9	22 43.41	-23 12.6	1.731	2.699	8.0	15.8	8 9	22 42.50	-5 19.4	1.464	2.427	9.6	18.3
8 19	22 33.58	-23 39.0	1.719	2.711	5.3	15.7	8 19	22 33.32	-5 39.1	1.428	2.427	5.0	18.0
8 29	22 23.03	-23 53.0	1.733	2.723	5.4	15.7	8 29	22 23.10	-6 7.1	1.419	2.427	1.6	17.8
9 8	22 12.94	-23 50.7	1.775	2.734	8.0	15.9	9 8	22 13.06	-6 37.7	1.435	2.427	5.5	18.1
9 18	22 4.32	-23 31.0	1.842	2.745	11.2	16.1	9 18	22 4.37	-7 5.8	1.478	2.426	10.1	18.3
9 28	21 57.96	-22 55.1	1.931	2.756	14.2	16.3	9 28	21 57.97	-7 26.5	1.544	2.425	14.2	18.6
62974	2000 VA ₆₂		8 27.4 153°97	3.5/31.2	18		172709	2004 BZ ₄₈		8 27.4 161°07	0.6/26.8	18	
7 20	22 47.76	+3 5.2	2.459	3.230	13.5	19.7	7 20	22 48.07	-8 28.8	2.182	3.009	13.2	20.6
7 30	22 43.69	+3 13.4	2.371	3.233	11.1	19.5	7 30	22 44.16	-9 8.9	2.103	3.012	10.3	20.4
8 9	22 37.98	+3 7.1	2.305	3.237	8.4	19.3	8 9	22 38.42	-9 59.9	2.046	3.015	6.9	20.2
8 19	22 31.05	+2 46.7	2.263	3.240	5.6	19.2	8 19	22 31.30	-10 58.0	2.014	3.017	3.1	19.9
8 29	22 23.50	+2 14.2	2.248	3.243	3.6	19.1	8 29	22 23.50	-11 58.1	2.011	3.020	1.0	19.8
9 8	22 16.04	+1 32.9	2.261	3.246	4.5	19.1	9 8	22 15.82	-12 54.6	2.036	3.022	4.8	20.1
9 18	22 9.36	+0 47.2	2.302	3.248	7.1	19.3	9 18	22 9.07	-13 42.8	2.088	3.023	8.4	20.3
9 28	22 4.09	+0 1.7	2.369	3.250	9.8	19.5	9 28	22 3.90	-14 19.3	2.165	3.025	11.5	20.5
181486	2006 TT ₁₀₁		8 27.4 153°99	4.3/24.3	17		343747	2011 FX ₃₄		8 27.4 37°06	1.0/26.7	16	
7 20	22 54.71	-18 11.5	1.601	2.456	15.9	20.7	7 20	22 47.13	-8 18.8	1.331	2.190	18.3	20.9
7 30	22 50.03	-18 54.5	1.534	2.458	12.4	20.5	7 30	22 44.36	-9 3.2	1.276	2.203	14.2	20.6
8 9	22 42.71	-19 42.6	1.487	2.461	8.5	20.3	8 9	22 38.98	-10 4.0	1.240	2.217	9.4	20.4
8 19	22 33.37	-20 28.9	1.464	2.463	5.0	20.1	8 19	22 31.64	-11 14.9	1.227	2.232	4.2	20.2
8 29	22 23.07	-21 5.5	1.468	2.465	4.8	20.1	8 29	22 23.44	-12 27.3	1.238	2.247	1.6	20.0
9 8	22 13.09	-21 26.4	1.497	2.467	8.2	20.3	9 8	22 15.63	-13 32.3	1.274	2.263	6.5	20.4
9 18	22 4.59	-21 28.8	1.551	2.468	12.1	20.5	9 18	22 9.34	-14 23.1	1.334	2.279	11.2	20.7
9 28	21 58.50	-21 12.3	1.627	2.469	15.6	20.8	9 28	22 5.43	-14 55.6	1.415	2.296	15.2	21.0
316034	2009 FL ₆₇		8 27.4 121°63	1.3/28.3	17		404458	2013 GB ₁₁₆		8 27.4 97°86	5.3/21.8	18	
7 20	22 52.09	-4 46.1	1.448	2.282	18.4	21.2	7 20	22 49.89	-24 40.6	2.310	3.160	11.8	21.1
7 30	22 48.16	-4 56.6	1.377	2.287	14.6	21.0	7 30	22 45.52	-25 37.6	2.247	3.165	9.3	21.0
8 9	22 41.56	-5 24.5	1.325	2.291	10.1	20.8	8 9	22 39.28	-26 33.7	2.208	3.171	6.9	20.8
8 19	22 32.89	-6 6.9	1.295	2.295	5.1	20.5	8 19	22 31.67	-27 23.2	2.195	3.176	5.4	20.8
8 29	22 23.16	-6 58.2	1.290	2.299	1.3	20.2	8 29	22 23.43	-28 0.2	2.208	3.181	5.8	20.8
9 8	22 13.69	-7 50.9	1.311	2.303	5.8	20.6	9 8	22 15.43	-28 20.9	2.249	3.186	7.9	20.9
9 18	22 5.66	-8 38.2	1.357	2.307	10.6	20.8	9 18	22 8.45	-28 23.6	2.314	3.192	10.3	21.1
9 28	22 0.06	-9 14.4	1.425	2.310	14.9	21.1	9 28	22 3.16	-28 8.6	2.402	3.197	12.6	21.3
342556	2008 UT ₂₄₄		8 27.4 329°72	11.1/3.3	18		270567	2002 JF ₁₆		8 27.4 88°45	6.5/20.9	18	
7 20	22 49.55	+11 49.9	1.502	2.262	21.1	20.1	7 20	22 54.16	-29 59.1	2.364	3.205</		

EPHEMERIDES

8 27.4

8 27.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
322033	2010 VZ ₂₈		8 27.4 301°23	1°3/26.2	18		268967	2007 EY ₂₀		8 27.4 58°32	2°0/26.0	17	
7 20	22 46.26	-10 43.9	2.062	2.902	13.4	21.3	7 20	22 53.21	-12 49.6	1.457	2.310	17.3	20.4
7 30	22 43.03	-11 19.7	1.968	2.886	10.5	21.0	7 30	22 48.80	-13 15.1	1.404	2.329	13.3	20.2
8 9	22 37.84	-12 5.8	1.897	2.870	7.0	20.8	8 9	22 41.79	-13 50.0	1.372	2.348	8.8	20.0
8 19	22 31.11	-12 58.5	1.850	2.854	3.2	20.5	8 19	22 32.91	-14 28.3	1.363	2.367	4.1	19.8
8 29	22 23.53	-13 52.2	1.831	2.839	1.7	20.4	8 29	22 23.26	-15 3.4	1.380	2.386	2.5	19.8
9 8	22 15.95	-14 41.3	1.839	2.823	5.4	20.6	9 8	22 14.13	-15 29.2	1.422	2.406	6.7	20.1
9 18	22 9.26	-15 20.9	1.874	2.808	9.2	20.8	9 18	22 6.60	-15 41.9	1.489	2.426	11.0	20.4
9 28	22 4.23	-15 47.5	1.932	2.793	12.7	21.0	9 28	22 1.49	-15 39.9	1.578	2.445	14.7	20.7
268887	2007 BS ₁₈		8 27.4 235°10	1°2/26.4	18		96479	1998 HS ₁₃₂		8 27.4 178°93	2°4/25.4	18	
7 20	22 51.33	-10 16.9	1.847	2.683	14.9	21.6	7 20	22 53.62	-13 11.8	1.846	2.684	14.8	20.0
7 30	22 47.19	-10 50.5	1.759	2.673	11.7	21.4	7 30	22 48.87	-14 0.8	1.769	2.686	11.5	19.8
8 9	22 40.76	-11 35.6	1.691	2.663	7.8	21.1	8 9	22 41.81	-14 59.0	1.715	2.687	7.6	19.6
8 19	22 32.51	-12 27.9	1.649	2.652	3.6	20.8	8 19	22 32.97	-16 0.9	1.686	2.688	3.8	19.3
8 29	22 23.26	-13 21.6	1.633	2.641	1.7	20.7	8 29	22 23.23	-16 59.6	1.684	2.688	2.9	19.3
9 8	22 14.06	-14 10.1	1.645	2.630	5.9	20.9	9 8	22 13.67	-17 48.3	1.710	2.687	6.6	19.5
9 18	22 5.95	-14 48.1	1.683	2.618	10.1	21.2	9 18	22 5.32	-18 22.6	1.762	2.686	10.4	19.7
9 28	21 59.80	-15 12.2	1.745	2.606	13.8	21.4	9 28	21 59.01	-18 40.2	1.838	2.683	13.9	20.0
478978	2012 XL ₁₀₈		8 27.4 245°10	8°5/ 4.5	18		390897	2005 BA ₂₅		8 27.4 109°82	5°8/20.4	18	
7 20	22 49.34	+14 38.6	2.135	2.843	17.0	21.1	7 20	22 49.98	-21 44.2	2.100	2.952	12.8	21.1
7 30	22 45.43	+15 32.0	2.038	2.836	15.0	20.9	7 30	22 45.81	-23 46.2	2.048	2.970	9.9	21.0
8 9	22 39.48	+16 4.9	1.959	2.828	12.7	20.8	8 9	22 39.61	-25 50.5	2.022	2.987	7.3	20.8
8 19	22 31.90	+16 13.9	1.901	2.820	10.5	20.6	8 19	22 31.89	-27 48.5	2.022	3.003	5.8	20.8
8 29	22 23.38	+15 57.8	1.866	2.812	8.9	20.5	8 29	22 23.45	-29 31.1	2.052	3.020	6.6	20.9
9 8	22 14.80	+15 18.2	1.856	2.803	8.6	20.5	9 8	22 15.22	-30 52.0	2.108	3.035	8.9	21.0
9 18	22 7.09	+14 19.7	1.871	2.795	9.9	20.5	9 18	22 8.09	-31 48.0	2.190	3.051	11.5	21.2
9 28	22 1.07	+13 9.2	1.911	2.786	12.1	20.7	9 28	22 2.77	-32 19.2	2.293	3.066	13.8	21.4
381551	2008 TX ₅₉		8 27.4 313°93	4°1/31.1	18		452243	2015 TG ₃		8 27.4 226°51	2°9/31.1	18	
7 20	22 44.88	+ 3 27.8	1.621	2.426	18.0	20.6	7 20	22 45.04	+ 3 14.9	2.699	3.469	12.4	21.6
7 30	22 42.45	+ 3 18.0	1.532	2.417	14.9	20.4	7 30	22 41.54	+ 2 56.2	2.599	3.462	10.2	21.4
8 9	22 37.72	+ 2 44.4	1.461	2.407	11.2	20.1	8 9	22 36.55	+ 2 22.5	2.520	3.454	7.6	21.2
8 19	22 31.15	+ 1 47.4	1.412	2.397	7.2	19.9	8 19	22 30.44	+ 1 34.7	2.466	3.446	4.9	21.1
8 29	22 23.53	+ 0 30.6	1.387	2.388	4.2	19.7	8 29	22 23.72	+ 0 35.4	2.439	3.438	3.0	20.9
9 8	22 15.92	- 0 58.9	1.388	2.380	5.7	19.8	9 8	22 17.02	- 0 31.3	2.442	3.430	3.9	21.0
9 18	22 9.40	- 2 32.0	1.415	2.371	9.6	20.0	9 18	22 10.96	- 1 40.6	2.473	3.421	6.6	21.1
9 28	22 4.89	- 3 59.6	1.465	2.363	13.7	20.2	9 28	22 6.12	- 2 47.7	2.531	3.412	9.3	21.3
444225	2005 US ₅		8 27.4 281°58	14°3/ 9.3	17		371367	2006 PM ₃₄		8 27.4 5°62	7°8/23.2	17	
7 20	22 43.46	+22 57.1	1.172	1.903	27.4	21.5	7 20	22 41.18	-20 59.2	0.793	1.712	21.4	19.2
7 30	22 42.62	+23 35.4	1.080	1.884	25.1	21.2	7 30	22 41.36	-21 53.3	0.751	1.711	16.8	18.9
8 9	22 38.67	+23 29.1	0.998	1.864	22.3	20.9	8 9	22 37.81	-22 51.2	0.725	1.712	11.9	18.7
8 19	22 31.93	+22 26.9	0.930	1.845	19.0	20.6	8 19	22 31.35	-23 40.7	0.716	1.716	8.2	18.5
8 29	22 23.34	+20 20.5	0.878	1.825	15.9	20.4	8 29	22 23.58	-24 8.9	0.727	1.722	8.7	18.6
9 8	22 14.44	+17 11.5	0.846	1.805	14.3	20.2	9 8	22 16.44	-24 7.4	0.756	1.731	12.6	18.8
9 18	22 6.92	+13 13.7	0.835	1.785	15.4	20.2	9 18	22 11.55	-23 34.7	0.802	1.743	17.2	19.1
9 28	22 2.34	+ 8 51.8	0.846	1.765	18.8	20.3	9 28	22 9.97	-22 34.0	0.865	1.756	21.4	19.5
255168	2005 US ₂₀₅		8 27.4 250°43	0°2/27.6	18		509067	2005 TG ₁₂₅		8 27.4 268°78	1°2/28.4	18	
7 20	22 47.02	- 7 4.8	2.347	3.167	12.6	21.7	7 20	22 49.61	- 4 26.5	1.753	2.576	16.1	22.5
7 30	22 43.28	- 7 28.4	2.256	3.160	9.9	21.5	7 30	22 46.06	- 4 40.8	1.656	2.560	12.9	22.3
8 9	22 37.83	- 8 2.6	2.187	3.152	6.7	21.3	8 9	22 40.15	- 5 11.2	1.580	2.543	9.0	22.0
8 19	22 31.05	- 8 44.7	2.143	3.145	3.2	21.1	8 19	22 32.32	- 5 55.5	1.526	2.526	4.7	21.7
8 29	22 23.58	- 9 30.7	2.128	3.137	0.6	20.8	8 29	22 23.37	- 6 49.2	1.499	2.508	1.2	21.5
9 8	22 16.16	-10 16.1	2.140	3.129	4.3	21.1	9 8	22 14.36	- 7 45.9	1.499	2.491	5.3	21.7
9 18	22 9.53	-10 56.5	2.181	3.122	7.8	21.3	9 18	22 6.38	- 8 39.1	1.525	2.473	9.8	21.9
9 28	22 4.36	-11 28.4	2.246	3.114	10.9	21.5	9 28	22 0.40	- 9 23.0	1.574	2.455	14.0	22.1
440595	2005 VG ₈		8 27.4 348°19	0°7/28.1	15		271130	2003 SV ₆₃		8 27.4 344°49	5°7/31.6	17	
7 20	22 45.91	- 5 49.2	1.821	2.654	15.2	21.5	7 20	22 50.25	+ 3 49.2	1.978	2.756	16.1	20.4
7 30	22 42.90	- 6 3.8	1.739	2.650	12.0	21.2	7 30	22 46.17	+ 4 49.5	1.888	2.750	13.5	20.2
8 9	22 37.80	- 6 32.2	1.678	2.646	8.3	21.0	8 9	22 40.00	+ 5 35.2	1.817	2.743	10.6	20.0
8 19	22 31.10	- 7 11.6	1.641	2.642	4.1	20.8	8 19	22 32.17	+ 6 4.6	1.769	2.738	7.7	19.8
8 29	22 23.57	- 7 57.5	1.630	2.639	0.8	20.5	8 29	22 23.42	+ 6 17.4	1.747	2.733	5.8	19.7
9 8	22 16.15	- 8 44.2	1.645	2.637	4.9	20.8	9 8	22 14.70	+ 6 15.2	1.751	2.728	6.4	19.7
9 18	22 9.76	- 9 26.1	1.686	2.635	9.0	21.0	9 18	22 6.95	+ 6 1.7	1.781	2.725	9.0	19.8
9 28	22 5.19	- 9 58.7	1.751	2.633	12.7	21.3	9 28	22 0.97	+ 5 41.8	1.836	2.721	12.0	20.0
142032	2002 QN ₇		8 27.4 46°22	2°9/25.5	18		222162	2000 AD ₃₀		8 27.4 240°71	1°1/28.6	18	
7 20	22 51.02	-13 5.8	1.234	2.102	18.8	19.5	7 20	22 47.70	- 4 33.5	2.837	3.635	11.2	21.1
7 30	22 47.62	-13 49.2	1.182	2.115	14.5	19.3	7 30	22 43.53	- 4 43.1	2.732	3.621	8.9	20.9
8 9	22 41.28	-14 44.1	1.149	2.128	9.6	19.1	8 9	22 37.87	- 5 2.3	2.651	3.607	6.2	20.7
8 19	22 32.76	-15 43.1	1.138	2.142	4.7	18.8	8 19	22 31.07	- 5 29.4	2.595	3.592	3.3	20.5
8 29	22 23.28	-16 37.1	1.151	2.156	3.5	18.8	8 29	22 23.64	- 6 2.0	2.569	3.577	1.1	20.3
9 8	22 14.30	-17 17.7	1.188	2.170	7.9	19.1	9 8	22 16.20	- 6 36.6	2.571	3.562	3.5	20.4
9 18	22 7.10	-17 40.1	1.248	2.185	12.6	19.4	9 18	22 9.39	- 7 9.9	2.603	3.546	6.6	20.6
9 28	22 2.60	-17 42.6	1.328	2.201	16.6	19.7	9 28	22 3.77	- 7 38.8	2.661	3.529	9.4	20.8
396232	2014 BZ ₂₃		8 27.4 157°12	4°0/31.4	18		47467	1999 YF ₁₃		8 27.4 170°45	4°1/23.9	18	
7 20	22 51.63	+ 3											

EPHEMERIDES

8 27.4

8 27.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
264999	2003 <i>EO</i> ₃₀		8 27.4 234°85	3°8/31.2	16		180665	2004 <i>GF</i> ₆₀		8 27.5 258°54	1°1/28.6	18	
7 20	22 46.55	+ 8 54.2	1.224	2.025	22.9	20.4	7 20	22 47.52	- 3 18.2	2.326	3.131	13.2	20.9
7 30	22 44.56	+ 7 26.3	1.139	2.020	19.1	20.1	7 30	22 43.84	- 3 46.8	2.219	3.111	10.6	20.7
8 9	22 39.63	+ 5 12.0	1.069	2.015	14.3	19.8	8 9	22 38.34	- 4 29.6	2.133	3.091	7.4	20.4
8 19	22 32.24	+ 2 12.1	1.021	2.009	8.8	19.5	8 19	22 31.41	- 5 24.5	2.073	3.070	3.9	20.2
8 29	22 23.40	- 1 23.4	0.998	2.002	4.1	19.2	8 29	22 23.63	- 6 27.7	2.041	3.049	1.1	19.9
9 8	22 14.55	- 5 15.0	1.001	1.996	6.5	19.3	9 8	22 15.78	- 7 33.8	2.037	3.028	4.2	20.1
9 18	22 7.15	- 8 59.5	1.031	1.989	12.2	19.6	9 18	22 8.66	- 8 37.5	2.061	3.006	7.9	20.3
9 28	22 2.43	- 12 17.2	1.086	1.982	17.6	19.9	9 28	22 2.99	- 9 33.7	2.111	2.983	11.3	20.5
399266	2014 <i>HX</i> ₄₇		8 27.4 210°56	2°8/30.5	18		266754	2009 <i>SA</i> ₇₇		8 27.5 264°40	2°3/24.8	18	
7 20	22 47.43	+ 1 54.8	2.313	3.095	13.9	22.2	7 20	22 46.61	- 14 58.5	2.495	3.334	11.4	21.3
7 30	22 43.65	+ 1 37.3	2.218	3.090	11.4	22.0	7 30	22 42.93	- 15 42.7	2.408	3.326	8.8	21.1
8 9	22 38.12	+ 1 3.3	2.143	3.085	8.4	21.8	8 9	22 37.59	- 16 32.9	2.345	3.317	5.9	20.9
8 19	22 31.24	+ 0 14.0	2.093	3.079	5.2	21.6	8 19	22 31.00	- 17 24.9	2.307	3.309	3.1	20.7
8 29	22 23.62	- 0 47.4	2.071	3.073	2.9	21.4	8 29	22 23.74	- 18 13.7	2.299	3.300	2.7	20.7
9 8	22 16.04	- 1 56.1	2.076	3.066	4.3	21.5	9 8	22 16.55	- 18 54.9	2.318	3.291	5.4	20.9
9 18	22 9.25	- 3 6.5	2.110	3.059	7.5	21.7	9 18	22 10.13	- 19 25.0	2.365	3.282	8.4	21.0
9 28	22 3.92	- 4 13.0	2.170	3.052	10.6	21.9	9 28	22 5.11	- 19 41.9	2.435	3.273	11.2	21.2
334363	2002 <i>AZ</i> ₃₁		8 27.4 232°99	1°9/28.9	18		8951	1997 <i>FO</i>		8 27.5 77°93	4°8/22.8	18	R
7 20	22 53.44	- 3 50.0	2.083	2.885	14.6	22.1	7 20	22 50.63	- 22 26.9	2.159	3.009	12.5	17.1
7 30	22 48.58	- 3 39.0	1.985	2.874	11.8	21.9	7 30	22 46.23	- 23 15.9	2.094	3.014	9.8	16.9
8 9	22 41.60	- 3 39.9	1.908	2.863	8.4	21.7	8 9	22 39.87	- 24 5.6	2.052	3.019	7.0	16.8
8 19	22 32.92	- 3 51.6	1.856	2.850	4.6	21.4	8 19	22 32.05	- 24 50.0	2.035	3.024	5.0	16.7
8 29	22 23.30	- 4 11.5	1.831	2.838	1.9	21.2	8 29	22 23.57	- 25 23.4	2.046	3.029	5.3	16.7
9 8	22 13.68	- 4 35.8	1.834	2.824	4.7	21.4	9 8	22 15.33	- 25 41.6	2.083	3.034	7.6	16.8
9 18	22 5.00	- 5 0.3	1.866	2.811	8.5	21.6	9 18	22 8.18	- 25 42.6	2.146	3.039	10.4	17.0
9 28	21 58.09	- 5 21.1	1.922	2.797	12.1	21.8	9 28	22 2.82	- 25 26.6	2.232	3.044	12.9	17.2
29589	1998 <i>FV</i> ₉₈		8 27.4 237°78	0°8/28.2	18		496204	2011 <i>SF</i> ₄		8 27.5 40°19	0°2/27.3	18	
7 20	22 50.52	- 6 28.6	2.339	3.149	13.0	18.6	7 20	22 50.08	- 8 59.7	1.814	2.650	15.2	21.7
7 30	22 46.01	- 6 28.0	2.244	3.141	10.3	18.4	7 30	22 46.10	- 9 12.3	1.740	2.653	11.9	21.5
8 9	22 39.69	- 6 36.9	2.172	3.133	7.1	18.2	8 9	22 39.94	- 9 35.6	1.687	2.657	8.0	21.3
8 19	22 31.96	- 6 53.5	2.125	3.125	3.6	18.0	8 19	22 32.15	- 10 6.4	1.658	2.660	3.7	21.1
8 29	22 23.49	- 7 14.8	2.107	3.116	0.9	17.7	8 29	22 23.55	- 10 39.7	1.655	2.664	0.8	20.9
9 8	22 15.08	- 7 37.3	2.117	3.107	4.2	18.0	9 8	22 15.16	- 11 10.5	1.679	2.668	5.2	21.2
9 18	22 7.49	- 7 57.5	2.155	3.098	7.7	18.2	9 18	22 7.92	- 11 34.3	1.730	2.673	9.3	21.4
9 28	22 1.44	- 8 12.1	2.218	3.088	10.9	18.4	9 28	22 2.61	- 11 47.9	1.804	2.677	12.9	21.7
167584	2004 <i>BK</i> ₉₀		8 27.4 200°39	0°7/26.7	18		237079	2008 <i>SH</i> ₂₈₄		8 27.5 251°80	5°9/23.7	18	
7 20	22 47.82	- 8 33.7	2.358	3.181	12.5	20.4	7 20	22 23.189	- 25 55.2	1.875	2.714	14.6	20.2
7 30	22 43.91	- 9 19.6	2.270	3.178	9.7	20.2	7 30	22 55.42	- 26 15.2	1.796	2.707	11.7	19.9
8 9	22 38.26	- 10 16.2	2.206	3.174	6.5	20.0	8 9	22 46.29	- 26 31.8	1.739	2.699	8.6	19.7
8 19	22 31.29	- 11 19.8	2.167	3.170	3.0	19.8	8 19	22 35.13	- 26 38.2	1.707	2.692	6.3	19.6
8 29	22 23.62	- 12 25.4	2.157	3.166	1.1	19.6	8 29	22 23.02	- 26 28.3	1.703	2.684	6.4	19.6
9 8	22 16.03	- 13 27.5	2.177	3.161	4.6	19.9	9 8	22 11.24	- 25 58.7	1.725	2.676	8.9	19.7
9 18	22 9.24	- 14 21.5	2.223	3.156	8.1	20.1	9 18	22 0.98	- 25 9.5	1.774	2.668	12.1	19.9
9 28	22 3.93	- 15 3.8	2.296	3.151	11.1	20.3	9 28	21 53.17	- 24 3.2	1.845	2.660	15.1	20.1
519775	2013 <i>EN</i> ₁₅₇		8 27.4 355°98	1°1/28.5	16		342302	2008 <i>TL</i> ₅₃		8 27.5 294°37	1°3/26.5	18	
7 20	22 42.37	- 2 31.9	1.794	2.623	15.6	20.4	7 20	22 50.99	- 11 15.8	1.645	2.491	16.0	21.7
7 30	22 40.20	- 3 16.8	1.713	2.619	12.4	20.2	7 30	22 47.46	- 11 33.8	1.545	2.465	12.6	21.5
8 9	22 36.03	- 4 20.7	1.652	2.617	8.6	20.0	8 9	22 41.33	- 12 3.0	1.465	2.439	8.6	21.2
8 19	22 30.33	- 5 40.1	1.616	2.615	4.4	19.7	8 19	22 33.01	- 12 39.5	1.409	2.413	4.0	20.8
8 29	22 23.82	- 7 8.8	1.605	2.614	1.1	19.5	8 29	22 23.37	- 13 17.5	1.378	2.386	1.8	20.6
9 8	22 17.41	- 8 39.2	1.621	2.614	4.8	19.7	9 8	22 13.58	- 13 50.5	1.373	2.360	6.5	20.8
9 18	22 11.98	- 10 3.3	1.663	2.614	9.0	20.0	9 18	22 4.90	- 14 12.9	1.394	2.334	11.3	21.1
9 28	22 8.30	- 11 14.9	1.730	2.615	12.7	20.2	9 28	21 58.41	- 14 21.1	1.437	2.308	15.6	21.3
111848	2002 <i>EA</i> ₄₀		8 27.5 6°66	2°3/26.5	17		325014	2008 <i>CX</i> ₅		8 27.5 102°69	0°2/27.3	18	
7 20	22 49.28	- 14 39.3	0.902	1.796	21.8	18.3	7 20	22 57.50	- 9 26.1	1.657	2.485	16.7	20.1
7 30	22 47.29	- 14 23.8	0.849	1.796	17.1	18.0	7 30	22 51.87	- 9 29.8	1.595	2.504	13.0	19.9
8 9	22 41.64	- 14 17.1	0.813	1.797	11.5	17.7	8 9	22 43.78	- 9 44.0	1.555	2.522	8.7	19.7
8 19	22 33.14	- 14 13.6	0.795	1.801	5.4	17.4	8 19	22 33.90	- 10 4.9	1.538	2.540	4.0	19.4
8 29	22 23.32	- 14 6.5	0.798	1.806	2.8	17.3	8 29	22 23.27	- 10 27.7	1.548	2.558	0.8	19.2
9 8	22 14.07	- 13 49.9	0.822	1.813	8.4	17.6	9 8	22 13.07	- 10 47.4	1.586	2.575	5.5	19.6
9 18	22 7.03	- 13 20.8	0.866	1.822	14.1	18.0	9 18	22 4.37	- 11 0.1	1.651	2.591	9.8	19.9
9 28	22 3.34	- 12 38.5	0.929	1.833	19.0	18.3	9 28	21 57.97	- 11 3.4	1.739	2.607	13.5	20.2
401452	2013 <i>CL</i> ₁₃₉		8 27.5 309°34	1°5/26.0	18		34616	2000 <i>UO</i> ₃₈		8 27.5 11°35	1°4/26.3	18	
7 20	22 47.19	- 11 13.7	2.052	2.892	13.5	20.9	7 20	22 48.23	- 11 50.7	1.749	2.598	15.1	18.8
7 30	22 43.68	- 11 54.0	1.971	2.889	10.4	20.7	7 30	22 44.76	- 12 10.8	1.678	2.600	11.7	18.6
8 9	22 38.24	- 12 43.9	1.913	2.886	6.9	20.5	8 9	22 39.10	- 12 40.1	1.628	2.602	7.8	18.4
8 19	22 31.32	- 13 39.2	1.880	2.884	3.2	20.3	8 19	22 31.77	- 13 14.2	1.602	2.606	3.6	18.1
8 29	22 23.65	- 14 34.2	1.874	2.881	1.9	20.2	8 29	22 23.65	- 13 47.8	1.601	2.609	1.8	18.0
9 8	22 16.10	- 15 23.3	1.896	2.879	5.4	20.4	9 8	22 15.75	- 14 15.3	1.628	2.613	5.8	18.3
9 18	22 9.50	- 16 1.8	1.944	2.876	9.1	20.6	9 18	22 9.03	- 14 32.8	1.679	2.618	9.8	18.6
9 28	22 4.57	- 16 26.8	2.016	2.874	12.4	20.9	9 28	22 4.27	- 14 37.7	1.754	2.623	13.3	18.8
25941	2001 <i>EB</i> ₉		8 27.5 9°51	0°6/26									

EPHEMERIDES

8 27.5

8 27.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
217326	2004 <i>RT</i> ₅₀		8 27.5 352°93		0°4/27.1 18		23828	1998 <i>QK</i> ₇₆		8 27.5 25°81		9°0/ 5.1 18	
7 20	22 43.61	- 7 13.2	1.762	2.606	15.2	19.9	7 20	22 44.06	+13 23.7	1.435	2.200	21.7	17.5
7 30	22 41.23	- 7 54.6	1.683	2.601	11.9	19.7	7 30	22 41.98	+13 59.2	1.371	2.211	18.8	17.4
8 9	22 36.78	- 8 50.8	1.625	2.598	8.0	19.5	8 9	22 37.48	+14 3.8	1.322	2.223	15.6	17.2
8 19	22 30.73	- 9 57.7	1.591	2.595	3.7	19.2	8 19	22 31.11	+13 34.6	1.291	2.236	12.2	17.0
8 29	22 23.84	-11 9.0	1.583	2.592	0.9	19.0	8 29	22 23.81	+12 32.7	1.281	2.250	9.7	16.9
9 8	22 17.07	-12 17.3	1.601	2.591	5.4	19.3	9 8	22 16.76	+11 4.3	1.294	2.264	9.1	16.9
9 18	22 11.33	-13 16.3	1.645	2.590	9.5	19.6	9 18	22 11.02	+ 9 19.2	1.331	2.280	10.9	17.1
9 28	22 7.40	-14 1.2	1.713	2.590	13.2	19.8	9 28	22 7.48	+ 7 29.1	1.390	2.296	13.8	17.3
392947	2012 <i>WC</i> ₁₃		8 27.5 259°56		2°5/29.7 18		298085	2002 <i>QU</i> ₁₄₂		8 27.5 281°58		4°7/31.9 18	
7 20	22 47.83	- 0 46.5	1.896	2.703	15.7	22.0	7 20	22 46.59	+ 5 12.3	1.957	2.736	16.2	21.2
7 30	22 44.35	- 0 55.9	1.810	2.700	12.7	21.8	7 30	22 43.44	+ 5 18.1	1.861	2.725	13.6	21.0
8 9	22 38.82	- 1 22.4	1.744	2.697	9.1	21.6	8 9	22 38.26	+ 5 4.0	1.783	2.714	10.5	20.8
8 19	22 31.68	- 2 4.4	1.702	2.694	5.3	21.3	8 19	22 31.46	+ 4 29.5	1.728	2.703	7.2	20.6
8 29	22 23.68	- 2 58.1	1.686	2.691	2.5	21.2	8 29	22 23.74	+ 3 36.6	1.699	2.692	4.9	20.4
9 8	22 15.76	- 3 57.8	1.697	2.688	4.8	21.3	9 8	22 16.01	+ 2 30.0	1.696	2.681	5.6	20.4
9 18	22 8.84	- 4 57.5	1.734	2.685	8.6	21.5	9 18	22 9.17	+ 1 16.2	1.719	2.670	8.7	20.6
9 28	22 3.70	- 5 51.1	1.796	2.682	12.2	21.7	9 28	22 4.05	+ 0 2.4	1.767	2.659	12.1	20.8
353342	2010 <i>UJ</i> ₇₇		8 27.5 270°16		2°3/31.8 17		104636	2000 <i>GK</i> ₁₁₇		8 27.5 315°03		1°9/29.2 18	
7 20	22 40.89	+ 3 36.4	4.426	5.176	8.2	21.0	7 20	22 46.12	- 1 50.9	1.832	2.649	15.8	19.9
7 30	22 37.74	+ 3 39.1	4.326	5.174	6.8	20.9	7 30	22 43.13	- 2 11.4	1.745	2.643	12.7	19.7
8 9	22 33.73	+ 3 33.4	4.250	5.172	5.2	20.7	8 9	22 38.06	- 2 49.5	1.679	2.638	9.0	19.4
8 19	22 29.11	+ 3 19.8	4.199	5.170	3.5	20.6	8 19	22 31.35	- 3 43.0	1.636	2.632	5.0	19.2
8 29	22 24.17	+ 2 59.3	4.177	5.168	2.4	20.5	8 29	22 23.76	- 4 47.5	1.619	2.627	1.9	19.0
9 8	22 19.26	+ 2 33.6	4.184	5.166	2.8	20.6	9 8	22 16.24	- 5 56.5	1.629	2.622	4.8	19.2
9 18	22 14.72	+ 2 4.8	4.220	5.164	4.2	20.7	9 18	22 9.71	- 7 3.2	1.665	2.617	8.9	19.4
9 28	22 10.88	+ 1 35.0	4.284	5.162	5.9	20.8	9 28	22 4.98	- 8 1.5	1.726	2.612	12.6	19.6
429095	2009 <i>SU</i> ₈		8 27.5 302°74		1°3/29.9 16		211494	2003 <i>NO</i> ₁₀		8 27.5 33°47		2°4/29.2 17	
7 20	22 39.69	- 1 10.4	4.289	5.070	8.0	21.6	7 20	22 47.05	- 1 26.9	1.162	2.010	21.1	20.6
7 30	22 36.86	- 1 29.0	4.190	5.066	6.4	21.5	7 30	22 44.77	- 1 44.4	1.102	2.017	16.9	20.3
8 9	22 33.17	- 1 55.4	4.116	5.061	4.6	21.4	8 9	22 39.59	- 2 27.3	1.059	2.026	12.0	20.1
8 19	22 28.85	- 2 28.4	4.067	5.057	2.7	21.3	8 19	22 32.16	- 3 32.3	1.036	2.035	6.5	19.8
8 29	22 24.21	- 3 6.2	4.048	5.053	1.3	21.1	8 29	22 23.63	- 4 52.1	1.037	2.045	2.4	19.6
9 8	22 19.61	- 3 46.7	4.059	5.049	2.4	21.2	9 8	22 15.44	- 6 16.1	1.060	2.055	6.2	19.9
9 18	22 15.38	- 4 27.5	4.098	5.045	4.3	21.4	9 18	22 8.89	- 7 33.8	1.107	2.066	11.4	20.2
9 28	22 11.85	- 5 6.2	4.166	5.040	6.1	21.5	9 28	22 5.00	- 8 37.0	1.175	2.077	16.0	20.5
372760	2010 <i>CJ</i> ₂₉		8 27.5 205°70		0°4/26.9 17		80297	1999 <i>XS</i> ₅₉		8 27.5 235°73		0°8/28.2 18	
7 20	22 45.67	-10 3.6	3.352	4.167	9.3	21.5	7 20	22 51.53	- 5 8.8	1.828	2.648	15.7	21.1
7 30	22 41.70	-10 24.2	3.260	4.163	7.2	21.4	7 30	22 47.44	- 5 27.9	1.734	2.637	12.5	20.8
8 9	22 36.52	-10 50.6	3.192	4.159	4.8	21.2	8 9	22 41.06	- 6 2.0	1.661	2.625	8.7	20.6
8 19	22 30.45	-11 20.5	3.152	4.154	2.2	21.0	8 19	22 32.81	- 6 48.6	1.612	2.612	4.4	20.3
8 29	22 23.92	-11 51.3	3.140	4.149	0.7	20.9	8 29	22 23.50	- 7 43.0	1.590	2.599	0.9	20.0
9 8	22 17.46	-12 20.1	3.159	4.144	3.3	21.1	9 8	22 14.19	- 8 38.7	1.595	2.586	5.2	20.3
9 18	22 11.54	-12 44.5	3.207	4.139	5.9	21.3	9 18	22 5.91	- 9 29.8	1.627	2.572	9.6	20.5
9 28	22 6.63	-13 2.3	3.281	4.133	8.2	21.4	9 28	21 59.60	-10 11.1	1.683	2.558	13.5	20.8
165046	2000 <i>EG</i> ₁₈		8 27.5 187°40		4°5/22.9 18		18087	<i>Yamanaka</i>		8 27.5 151°96		0°4/27.2 18	
7 20	22 51.97	-21 28.2	2.219	3.065	12.4	20.4	7 20	22 52.91	- 8 34.7	1.932	2.757	14.8	20.2
7 30	22 47.30	-22 22.1	2.146	3.064	9.7	20.2	7 30	22 48.17	- 9 0.3	1.857	2.764	11.5	20.0
8 9	22 40.63	-23 17.8	2.096	3.064	6.9	20.1	8 9	22 41.29	- 9 37.0	1.803	2.771	7.8	19.7
8 19	22 32.46	-24 9.4	2.073	3.063	4.8	19.9	8 19	22 32.80	-10 21.2	1.775	2.777	3.6	19.5
8 29	22 23.56	-24 50.9	2.076	3.061	5.1	19.9	8 29	22 23.52	-11 7.7	1.774	2.783	0.9	19.3
9 8	22 14.83	-25 17.6	2.108	3.059	7.5	20.1	9 8	22 14.46	-11 50.7	1.801	2.788	5.1	19.6
9 18	22 7.14	-25 27.2	2.165	3.057	10.3	20.3	9 18	22 6.53	-12 25.8	1.855	2.793	9.1	19.9
9 28	22 1.21	-25 19.2	2.245	3.055	12.9	20.4	9 28	22 0.50	-12 49.6	1.933	2.797	12.5	20.1
469392	2001 <i>TY</i> ₂₃		8 27.5 326°38		4°7/30.8 18		206964	2004 <i>SE</i> ₄₁		8 27.5 323°43		2°4/26.1 18	
7 20	22 43.49	+ 1 35.1	1.292	2.127	20.2	20.8	7 20	22 49.32	-12 49.9	1.111	1.988	19.8	20.3
7 30	22 42.07	+ 1 53.0	1.203	2.106	16.8	20.5	7 30	22 47.12	-13 7.9	1.035	1.973	15.6	20.0
8 9	22 37.95	+ 1 47.0	1.131	2.087	12.7	20.2	8 9	22 41.61	-13 39.1	0.977	1.959	10.6	19.7
8 19	22 31.52	+ 1 15.8	1.078	2.068	8.2	19.9	8 19	22 33.30	-14 17.7	0.940	1.945	5.0	19.3
8 29	22 23.69	+ 0 21.6	1.048	2.050	4.8	19.7	8 29	22 23.41	-14 55.0	0.924	1.932	3.0	19.2
9 8	22 15.76	- 0 48.6	1.040	2.033	6.7	19.7	9 8	22 13.59	-15 22.2	0.931	1.919	8.4	19.4
9 18	22 9.07	- 2 5.4	1.055	2.018	11.4	19.9	9 18	22 5.49	-15 32.8	0.960	1.908	14.1	19.7
9 28	22 4.84	- 3 18.6	1.092	2.003	16.2	20.2	9 28	22 0.44	-15 23.8	1.007	1.898	19.1	20.0
422840	2002 <i>EC</i> ₅₆		8 27.5 65°97		1°3/29.0 18		214735	2006 <i>TU</i> ₃₇		8 27.5 24°41		1°8/26.1 18	
7 20	22 48.02	+ 3 25.9	1.632	2.431	18.1	20.1	7 20	22 48.65	-12 31.5	1.616	2.470	15.8	20.2
7 30	22 44.57	+ 1 30.9	1.571	2.458	14.4	19.9	7 30	22 45.23	-12 57.5	1.552	2.477	12.2	20.0
8 9	22 38.92	- 0 52.1	1.530	2.485	10.0	19.7	8 9	22 39.48	-13 32.7	1.509	2.485	8.1	19.7
8 19	22 31.67	- 3 35.9	1.515	2.512	5.2	19.5	8 19	22 31.99	-14 12.1	1.489	2.493	3.8	19.5
8 29	22 23.72	- 6 29.4	1.530	2.538	1.3	19.3	8 29	22 23.69	-14 49.6	1.496	2.502	2.3	19.4
9 8	22 16.10	- 9 19.0	1.573	2.565	5.1	19.7	9 8	22 15.70	-15 19.3	1.527	2.512	6.3	19.7
9 18	22 9.74	-11 52.8	1.646	2.591	9.5	20.0	9 18	22 9.01	-15 37.1	1.584	2.522	10.4	20.0
9 28	22 5.39	-14 2.5	1.745	2.618	13.2	20.3	9 28	22 4.43	-15 40.6	1.664	2.533	14.0	20.2
63305	<i>Bobkepple</i>		8 27.5 13°66		1°3/28.8 18		290856	2005 <i>WB</i> ₄₂		8 27.5 177°22			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
448102	2008 <i>KJ</i> ₁₈		8 27.5 59°12	0°8/26.5	17		10040	1984 <i>QM</i>		8 27.5 18°17	0°9/27.9	18	
7 20	22 46.49	- 7 30.4	2.022	2.853	14.0	20.5	7 20	22 49.16	- 7 52.9	0.940	1.819	22.5	16.7
7 30	22 42.96	- 8 37.7	1.968	2.880	10.8	20.3	7 30	22 46.99	- 7 34.6	0.889	1.825	17.8	16.5
8 9	22 37.63	- 9 57.2	1.935	2.906	7.1	20.2	8 9	22 41.37	- 7 34.0	0.853	1.832	12.2	16.2
8 19	22 31.03	-11 23.4	1.928	2.932	3.2	20.0	8 19	22 33.08	- 7 48.0	0.837	1.840	6.0	15.9
8 29	22 23.88	-12 49.7	1.950	2.958	1.3	19.9	8 29	22 23.54	- 8 10.2	0.841	1.850	1.1	15.6
9 8	22 17.01	-14 9.4	1.999	2.984	5.0	20.2	9 8	22 14.53	- 8 32.8	0.867	1.862	7.1	16.1
9 18	22 11.16	-15 17.1	2.076	3.011	8.5	20.5	9 18	22 7.60	- 8 49.0	0.913	1.874	12.9	16.4
9 28	22 6.95	-16 9.4	2.178	3.037	11.5	20.7	9 28	22 3.84	- 8 53.5	0.979	1.888	17.9	16.8
224145	2005 <i>QZ</i> ₄₇		8 27.5 288°21	2°8/25.3	18		84000	2002 <i>NG</i> ₂₇		8 27.5 331°27	0°5/27.8	18	
7 20	22 49.91	-13 22.0	1.561	2.417	16.2	20.4	7 20	22 42.84	- 6 12.9	1.130	2.001	20.0	18.7
7 30	22 46.67	-14 6.4	1.473	2.400	12.7	20.1	7 30	22 41.92	- 6 28.1	1.049	1.981	16.0	18.4
8 9	22 40.81	-15 2.5	1.406	2.383	8.5	19.8	8 9	22 38.05	- 7 4.8	0.985	1.963	11.1	18.0
8 19	22 32.79	-16 4.4	1.362	2.365	4.3	19.5	8 19	22 31.65	- 8 0.0	0.941	1.945	5.4	17.7
8 29	22 23.53	-17 4.3	1.344	2.348	3.4	19.4	8 29	22 23.76	- 9 6.7	0.919	1.929	0.9	17.3
9 8	22 14.25	-17 53.9	1.351	2.331	7.5	19.6	9 8	22 15.82	-10 14.6	0.919	1.914	7.0	17.6
9 18	22 6.20	-18 27.4	1.382	2.314	12.1	19.9	9 18	22 9.35	-11 13.6	0.941	1.900	12.9	17.9
9 28	22 0.44	-18 41.3	1.435	2.297	16.2	20.1	9 28	22 5.62	-11 55.8	0.982	1.888	18.1	18.2
252912	2002 <i>LT</i> ₁₇		8 27.5 38°90	3°5/25.0	17		155770	2000 <i>SF</i> ₂₃₈		8 27.5 346°79	11°2/19.1	18	
7 20	22 49.53	-13 30.5	1.183	2.058	19.1	19.9	7 20	22 46.48	-29 23.0	1.145	2.038	18.2	18.8
7 30	22 46.68	-14 28.2	1.131	2.068	14.7	19.7	7 30	22 45.02	-30 56.7	1.088	2.026	15.1	18.6
8 9	22 40.84	-15 38.3	1.098	2.079	9.8	19.4	8 9	22 40.18	-32 26.7	1.051	2.015	12.4	18.4
8 19	22 32.72	-16 52.3	1.087	2.091	4.9	19.2	8 19	22 32.59	-33 39.5	1.033	2.005	11.2	18.3
8 29	22 23.58	-17 59.5	1.099	2.103	4.2	19.2	8 29	22 23.62	-34 22.1	1.036	1.997	12.4	18.3
9 8	22 14.92	-18 50.5	1.135	2.115	8.6	19.5	9 8	22 15.00	-34 26.7	1.059	1.991	15.2	18.5
9 18	22 8.03	-19 20.2	1.193	2.129	13.2	19.8	9 18	22 8.33	-33 52.5	1.101	1.986	18.5	18.6
9 28	22 3.88	-19 26.7	1.272	2.142	17.3	20.1	9 28	22 4.75	-32 43.9	1.159	1.983	21.7	18.9
41975	2000 <i>YU</i> ₁₂		8 27.5 111°14	1°7/29.0	18		219309	2000 <i>ED</i> ₃		8 27.5 207°85	0°1/27.4	18	
7 20	22 50.52	- 3 10.1	1.928	2.739	15.3	19.1	7 20	22 51.11	- 7 3.1	1.853	2.679	15.3	21.6
7 30	22 46.29	- 3 18.7	1.854	2.749	12.2	18.9	7 30	22 47.02	- 7 34.2	1.767	2.675	12.0	21.4
8 9	22 40.01	- 3 41.9	1.801	2.758	8.6	18.7	8 9	22 40.70	- 8 19.2	1.703	2.670	8.2	21.2
8 19	22 32.21	- 4 17.3	1.772	2.768	4.6	18.5	8 19	22 32.63	- 9 14.4	1.663	2.666	3.8	20.9
8 29	22 23.68	- 5 0.9	1.769	2.777	1.7	18.3	8 29	22 23.62	-10 14.3	1.651	2.660	0.7	20.6
9 8	22 15.35	- 5 47.5	1.795	2.786	4.6	18.5	9 8	22 14.70	-11 12.3	1.666	2.654	5.3	21.0
9 18	22 8.10	- 6 31.9	1.847	2.795	8.4	18.7	9 18	22 6.84	-12 2.5	1.707	2.648	9.5	21.2
9 28	22 2.67	- 7 9.4	1.924	2.804	11.9	19.0	9 28	22 0.92	-12 40.5	1.773	2.641	13.3	21.4
206534	2003 <i>UL</i> ₁₇₆		8 27.5 289°87	0°1/27.5	18		267606	2002 <i>RP</i> ₉₂		8 27.5 311°62	3°4/25.4	18	
7 20	22 49.59	- 8 1.6	1.799	2.633	15.3	21.0	7 20	22 51.29	-15 23.3	1.328	2.196	17.8	20.0
7 30	22 46.03	- 8 14.1	1.703	2.615	12.1	20.8	7 30	22 48.25	-15 47.6	1.245	2.177	14.0	19.7
8 9	22 40.16	- 8 39.0	1.627	2.597	8.3	20.5	8 9	22 42.16	-16 21.2	1.181	2.159	9.5	19.4
8 19	22 32.43	- 9 13.5	1.576	2.578	4.0	20.2	8 19	22 33.53	-16 57.7	1.138	2.141	4.9	19.1
8 29	22 23.61	- 9 52.8	1.551	2.560	0.7	19.9	8 29	22 23.45	-17 29.2	1.120	2.124	3.9	18.9
9 8	22 14.76	-10 31.3	1.552	2.542	5.4	20.2	9 8	22 13.38	-17 47.9	1.125	2.107	8.4	19.2
9 18	22 6.93	-11 3.6	1.579	2.524	9.8	20.4	9 18	22 4.82	-17 49.0	1.153	2.091	13.4	19.4
9 28	22 1.05	-11 25.5	1.630	2.506	13.8	20.6	9 28	21 58.98	-17 30.5	1.202	2.075	17.9	19.6
82279	2001 <i>KE</i> ₂₆		8 27.5 38°80	4°8/30.9	18		36517	2000 <i>QZ</i> ₇₄		8 27.5 357°17	0°6/28.1	18	
7 20	22 49.77	+ 1 40.7	1.346	2.165	20.3	19.2	7 20	22 46.33	- 5 46.8	1.805	2.638	15.3	19.3
7 30	22 46.55	+ 2 5.6	1.281	2.174	16.6	19.0	7 30	22 43.29	- 6 6.2	1.726	2.636	12.1	19.1
8 9	22 40.63	+ 2 8.0	1.233	2.182	12.4	18.8	8 9	22 38.16	- 6 39.9	1.668	2.635	8.3	18.9
8 19	22 32.63	+ 1 47.8	1.205	2.192	8.0	18.6	8 19	22 31.42	- 7 24.7	1.633	2.634	4.1	18.6
8 29	22 23.60	+ 1 8.2	1.201	2.202	4.9	18.4	8 29	22 23.86	- 8 15.8	1.624	2.634	0.8	18.4
9 8	22 14.86	+ 0 15.7	1.221	2.212	6.4	18.5	9 8	22 16.42	- 9 7.1	1.642	2.634	4.9	18.7
9 18	22 7.61	+ 0 41.7	1.266	2.222	10.5	18.8	9 18	22 10.04	- 9 53.0	1.686	2.634	9.0	18.9
9 28	22 2.82	- 1 35.7	1.332	2.233	14.6	19.1	9 28	22 5.48	-10 28.9	1.753	2.635	12.7	19.2
369688	2012 <i>BZ</i> ₇₂		8 27.5 98°09	0°7/27.9	15		348090	2003 <i>WX</i> ₁₃₈		8 27.5 313°23	7°5/20.6	18	
7 20	22 55.28	- 6 47.9	1.506	2.338	17.9	21.4	7 20	22 49.40	-25 21.7	1.673	2.541	14.7	20.0
7 30	22 50.48	- 6 51.6	1.443	2.352	14.1	21.2	7 30	22 46.19	-26 45.7	1.603	2.530	11.8	19.8
8 9	22 43.06	- 7 9.4	1.399	2.366	9.6	20.9	8 9	22 40.40	-28 10.9	1.554	2.518	9.1	19.6
8 19	22 33.69	- 7 38.1	1.378	2.379	4.7	20.7	8 19	22 32.56	-29 28.0	1.529	2.508	7.5	19.5
8 29	22 23.43	- 8 12.4	1.383	2.393	0.9	20.4	8 29	22 23.65	-30 27.3	1.528	2.497	8.4	19.5
9 8	22 13.56	- 8 46.1	1.415	2.406	5.6	20.8	9 8	22 14.87	-31 2.0	1.552	2.487	11.0	19.6
9 18	22 5.21	- 9 13.9	1.472	2.419	10.2	21.1	9 18	22 7.43	-31 9.2	1.599	2.477	14.1	19.8
9 28	21 59.27	- 9 31.9	1.552	2.431	14.2	21.4	9 28	22 2.27	-30 49.5	1.665	2.467	17.0	20.0
380921	2006 <i>GP</i> ₂		8 27.5 173°68	10°1/12.6	18		142316	2002 <i>RB</i> ₁₆₆		8 27.5 23°75	1°1/28.3	17	
7 20	22 58.00	-43 11.6	2.575	3.384	12.0	21.2	7 20	22 46.48	- 4 39.6	1.138	1.999	20.6	20.2
7 30	22 52.37	-45 9.7	2.535	3.388	10.8	21.1	7 30	22 44.38	- 4 57.2	1.081	2.006	16.3	20.0
8 9	22 44.28	-46 56.0	2.519	3.391	10.1	21.1	8 9	22 39.37	- 5 36.6	1.041	2.014	11.3	19.7
8 19	22 34.29	-48 22.4	2.527	3.394	10.2	21.1	8 19	22 32.09	- 6 33.7	1.021	2.024	5.6	19.4
8 29	22 23.30	-49 22.3	2.559	3.395	11.0	21.2	8 29	22 23.75	- 7 40.5	1.024	2.034	1.2	19.2
9 8	22 12.49	-49 52.5	2.614	3.396	12.2	21.3	9 8	22 15.77	- 8 47.2	1.051	2.045	6.4	19.5
9 18	22 2.96	-49 53.6	2.690	3.396	13.6	21.4	9 18	22 9.47	- 9 45.0	1.100	2.057	11.7	19.9
9 28	21 55.60	-49 28.7	2.782	3.396	14.8	21.5	9 28	22 5.83	-10 27.2	1.170	2.070	16.2	20.2
224146	2005 <i>QV</i> ₅₀		8 27.5 55°49	1°4/26.4	17		48113	2001 <i>FJ</i> ₇₇	</				

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
137674	1999 XA ₄₂		8 27.5 253°30	0°3/27.3	18		285174	1996 FY ₅		8 27.5 49°07	0°3/27.9	17	
7 20	22 52.74	- 7 52.4	1.931	2.754	14.9	21.7	7 20	22 45.22	- 3 7.2	1.699	2.528	16.3	20.1
7 30	22 48.43	- 8 20.4	1.826	2.732	11.8	21.4	7 30	22 42.50	- 4 14.3	1.629	2.537	12.8	19.9
8 9	22 41.80	- 9 1.8	1.742	2.709	8.0	21.1	8 9	22 37.65	- 5 41.2	1.580	2.547	8.7	19.7
8 19	22 33.25	- 9 53.3	1.683	2.686	3.8	20.8	8 19	22 31.20	- 7 23.0	1.555	2.556	4.2	19.5
8 29	22 23.53	-10 49.7	1.652	2.661	0.9	20.6	8 29	22 23.96	- 9 11.6	1.557	2.566	0.6	19.2
9 8	22 13.66	-11 44.7	1.648	2.636	5.5	20.8	9 8	22 16.92	-10 57.7	1.586	2.577	5.2	19.6
9 18	22 4.72	-12 32.2	1.671	2.610	9.9	21.0	9 18	22 10.98	-12 32.9	1.642	2.587	9.5	19.9
9 28	21 57.68	-13 7.8	1.719	2.583	13.8	21.2	9 28	22 6.94	-13 51.0	1.721	2.598	13.2	20.1
280086	2002 CQ ₃₁₆		8 27.5 143°49	2°2/29.5	18		514279	2015 RS ₁₁₇		8 27.5 340°25	2°6/24.7	18	
7 20	22 50.03	- 1 24.8	1.910	2.715	15.7	21.6	7 20	22 42.98	-11 21.2	1.820	2.675	14.3	20.3
7 30	22 46.00	- 1 34.1	1.831	2.720	12.6	21.4	7 30	22 40.80	-12 43.4	1.740	2.667	11.0	20.1
8 9	22 39.90	- 1 59.6	1.772	2.725	9.0	21.2	8 9	22 36.57	-14 19.3	1.682	2.659	7.3	19.9
8 19	22 32.22	- 2 39.5	1.736	2.730	5.1	21.0	8 19	22 30.74	-16 2.6	1.649	2.652	3.6	19.6
8 29	22 23.73	- 3 29.8	1.728	2.734	2.3	20.8	8 29	22 24.04	-17 44.5	1.643	2.646	3.2	19.6
9 8	22 15.40	- 4 25.0	1.746	2.738	4.7	21.0	9 8	22 17.40	-19 16.4	1.663	2.640	6.8	19.8
9 18	22 8.12	- 5 19.3	1.792	2.742	8.5	21.2	9 18	22 11.74	-20 31.5	1.710	2.634	10.6	20.0
9 28	22 2.66	- 6 7.2	1.863	2.745	12.0	21.5	9 28	22 7.85	-21 25.6	1.779	2.630	14.1	20.3
519223	2010 UT ₁₀₉		8 27.5 57°31	1°8/26.4	17		68880	2002 JM ₄₉		8 27.5 52°71	3°8/31.4	18	
7 20	22 55.42	-12 56.0	1.337	2.193	18.4	21.0	7 20	22 47.06	+ 3 14.6	2.284	3.061	14.2	19.5
7 30	22 50.97	-13 6.0	1.277	2.202	14.3	20.8	7 30	22 43.38	+ 3 25.7	2.199	3.064	11.8	19.4
8 9	22 43.59	-13 25.5	1.236	2.211	9.6	20.5	8 9	22 37.99	+ 3 21.3	2.134	3.067	8.9	19.2
8 19	22 34.00	-13 49.1	1.217	2.221	4.5	20.3	8 19	22 31.30	+ 3 1.7	2.093	3.071	6.0	19.0
8 29	22 23.43	-14 10.5	1.223	2.231	2.3	20.1	8 29	22 23.96	+ 2 28.8	2.079	3.074	3.9	18.9
9 8	22 13.30	-14 23.4	1.254	2.240	7.0	20.5	9 8	22 16.71	+ 1 46.5	2.092	3.078	4.7	18.9
9 18	22 4.92	-14 24.3	1.309	2.251	11.8	20.8	9 18	22 10.28	+ 0 59.2	2.132	3.081	7.4	19.1
9 28	21 59.23	-14 11.4	1.386	2.261	15.9	21.0	9 28	22 5.33	+ 0 12.0	2.198	3.085	10.3	19.3
476157	2007 TU ₃₅₄		8 27.5 342°04	14°0/18.3	16		388641	2007 TU ₁₅₄		8 27.5 315°86	0°8/26.9	18	
7 20	22 51.47	-36 38.7	1.149	2.030	19.1	19.6	7 20	22 49.74	-10 22.3	1.701	2.545	15.6	20.6
7 30	22 49.35	-37 52.0	1.088	2.008	16.7	19.4	7 30	22 46.20	-10 35.7	1.617	2.535	12.3	20.4
8 9	22 43.34	-38 52.4	1.044	1.988	14.7	19.2	8 9	22 40.29	-10 59.8	1.553	2.526	8.3	20.1
8 19	22 34.16	-39 26.0	1.018	1.969	14.0	19.1	8 19	22 32.52	-11 30.9	1.513	2.516	3.8	19.9
8 29	22 23.38	-39 20.0	1.012	1.953	15.0	19.1	8 29	22 23.73	-12 3.8	1.498	2.507	1.3	19.7
9 8	22 13.05	-38 28.7	1.024	1.938	17.3	19.2	9 8	22 15.04	-12 32.8	1.511	2.499	5.8	19.9
9 18	22 5.00	-36 54.3	1.054	1.925	20.3	19.3	9 18	22 7.51	-12 53.2	1.548	2.491	10.2	20.2
9 28	22 0.51	-34 44.2	1.101	1.915	23.2	19.5	9 28	22 2.03	-13 1.6	1.608	2.483	14.1	20.4
339131	2004 RP ₃₃₇		8 27.5 3°66	1°3/26.7	18		121914	2000 DB ₆₉		8 27.5 264°38	2°2/30.3	18	
7 20	22 44.87	-10 54.9	1.090	1.972	19.8	20.5	7 20	22 44.37	+ 1 39.8	2.590	3.372	12.6	19.9
7 30	22 43.35	-11 5.0	1.030	1.970	15.5	20.2	7 30	22 41.21	+ 1 5.2	2.485	3.358	10.3	19.7
8 9	22 38.81	-11 29.2	0.988	1.970	10.4	19.9	8 9	22 36.52	+ 0 14.6	2.401	3.344	7.5	19.5
8 19	22 31.89	-12 2.5	0.966	1.972	4.8	19.6	8 19	22 30.63	- 0 50.4	2.342	3.330	4.5	19.3
8 29	22 23.80	-12 37.1	0.966	1.975	1.9	19.4	8 29	22 24.07	- 2 6.5	2.312	3.316	2.3	19.1
9 8	22 16.06	-13 5.1	0.989	1.980	7.3	19.8	9 8	22 17.50	- 3 28.9	2.311	3.302	3.8	19.2
9 18	22 10.03	-13 20.4	1.033	1.987	12.6	20.1	9 18	22 11.57	- 4 51.8	2.338	3.287	6.8	19.3
9 28	22 6.74	-13 19.4	1.096	1.995	17.2	20.4	9 28	22 6.87	- 6 9.9	2.392	3.272	9.8	19.5
151693	2003 AH ₅₅		8 27.5 127°42	1°4/26.4	17		517875	2015 RS ₂₅₈		8 27.5 251°22	4°2/23.1	18	
7 20	22 54.02	-11 30.1	1.879	2.711	14.8	20.6	7 20	22 50.28	-22 5.0	2.468	3.312	11.4	21.8
7 30	22 49.05	-11 58.4	1.811	2.723	11.5	20.4	7 30	22 45.85	-22 45.8	2.389	3.306	8.9	21.6
8 9	22 41.89	-12 35.7	1.765	2.735	7.6	20.2	8 9	22 39.63	-23 27.4	2.334	3.300	6.3	21.4
8 19	22 33.12	-13 17.4	1.743	2.747	3.5	19.9	8 19	22 32.07	-24 5.1	2.304	3.294	4.4	21.3
8 29	22 23.60	-13 57.9	1.750	2.757	1.8	19.8	8 29	22 23.84	-24 33.7	2.303	3.288	4.6	21.3
9 8	22 14.37	-14 31.8	1.784	2.768	5.6	20.1	9 8	22 15.74	-24 49.5	2.329	3.281	6.8	21.4
9 18	22 6.37	-14 55.3	1.845	2.778	9.5	20.4	9 18	22 8.54	-24 50.5	2.381	3.275	9.4	21.6
9 28	22 0.35	-15 6.2	1.930	2.787	12.9	20.6	9 28	22 2.90	-24 36.2	2.457	3.268	11.9	21.7
468041	2013 QP ₅₈		8 27.5 21°55	2°6/26.2	17		108793	2001 OJ ₆₆		8 27.5 240°86	2°2/29.2	18	
7 20	22 51.70	-14 16.1	1.027	1.909	20.8	20.4	7 20	22 51.71	- 2 58.8	1.782	2.595	16.3	19.7
7 30	22 48.75	-14 21.8	0.977	1.917	16.1	20.1	7 30	22 47.62	- 2 53.7	1.693	2.588	13.1	19.5
8 9	22 42.43	-14 37.3	0.944	1.926	10.8	19.9	8 9	22 41.21	- 3 3.6	1.624	2.581	9.4	19.2
8 19	22 33.54	-14 56.2	0.931	1.936	5.2	19.6	8 19	22 32.95	- 3 27.4	1.578	2.573	5.2	19.0
8 29	22 23.54	-15 10.6	0.940	1.947	3.1	19.5	8 29	22 23.67	- 4 1.6	1.558	2.565	2.2	18.8
9 8	22 14.16	-15 13.9	0.972	1.960	8.2	19.9	9 8	22 14.43	- 4 41.2	1.566	2.557	5.1	18.9
9 18	22 6.85	-15 2.5	1.025	1.973	13.4	20.2	9 18	22 6.29	- 5 20.6	1.599	2.549	9.3	19.2
9 28	22 2.63	-14 35.6	1.097	1.988	17.9	20.5	9 28	22 0.14	- 5 54.5	1.657	2.541	13.2	19.4
71321	2000 AB ₈₃		8 27.5 211°15	0°4/28.1	18		62778	2000 UU ₂₁		8 27.5 354°26	3°8/31.3	18	
7 20	22 46.23	- 5 37.7	2.744	3.552	11.3	20.1	7 20	22 44.39	+ 3 26.4	1.891	2.686	16.2	19.2
7 30	22 42.47	- 6 6.1	2.651	3.547	8.9	20.0	7 30	22 41.73	+ 3 17.5	1.806	2.684	13.3	19.0
8 9	22 37.25	- 6 44.7	2.581	3.542	6.1	19.8	8 9	22 37.11	+ 2 48.4	1.740	2.682	10.0	18.8
8 19	22 30.92	- 7 31.1	2.537	3.537	3.0	19.6	8 19	22 30.97	+ 1 59.8	1.697	2.680	6.5	18.6
8 29	22 24.01	- 8 21.7	2.522	3.532	0.5	19.4	8 29	22 24.03	+ 0 55.2	1.680	2.679	3.9	18.4
9 8	22 17.15	- 9 12.6	2.536	3.526	3.6	19.6	9 8	22 17.17	- 0 19.8	1.688	2.679	5.0	18.5
9 18	22 10.94	- 9 59.8	2.579	3.520	6.7	19.8	9 18	22 11.25	- 1 38.0	1.724	2.678	8.4	18.7
9 28	22 5.96	-10 39.9	2.648	3.514	9.5	20.0	9 28	22 7.03	- 2 52.4	1.783	2.679	11.8	18.9
453673	2010 VY ₂₈		8 27.5 183°97	8°1/14.7	18		523650	2011 GQ ₆₁		8 27.5 252°11	13°2/27.6	18	
7 20	22 55.22	-											

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
296491	2009 <i>JH</i> ₁		8 27.5 62°31'	1.1/26.8	17		479928	2014 <i>HZ</i> ₁₂₅		8 27.5 236°00'	2.5/25.2	18	
7 20	22 52.44	- 8 57.0	1.264	2.120	19.3	20.8	7 20	22 50.14	-14 47.6	2.014	2.858	13.6	21.9
7 30	22 48.64	- 9 34.4	1.215	2.139	15.0	20.6	7 30	22 46.10	-15 25.9	1.935	2.855	10.5	21.7
8 9	22 42.00	-10 27.4	1.184	2.159	9.9	20.4	8 9	22 40.00	-16 11.1	1.879	2.852	7.0	21.5
8 19	22 33.27	-11 29.5	1.175	2.179	4.5	20.1	8 19	22 32.33	-16 58.2	1.848	2.850	3.6	21.3
8 29	22 23.67	-12 32.1	1.190	2.199	1.6	20.0	8 29	22 23.87	-17 41.5	1.844	2.847	3.0	21.2
9 8	22 14.60	-13 26.5	1.231	2.219	6.7	20.4	9 8	22 15.54	-18 15.5	1.868	2.844	6.2	21.4
9 18	22 7.27	-14 6.7	1.295	2.240	11.6	20.7	9 18	22 8.26	-18 36.8	1.917	2.841	9.7	21.6
9 28	22 2.57	-14 29.2	1.381	2.260	15.7	21.0	9 28	22 2.77	-18 43.2	1.991	2.838	12.9	21.8
254244	2004 <i>RT</i> ₁₄₇		8 27.5 341°05'	3.1/24.8	18		261608	2005 <i>XD</i> ₁₀₆		8 27.5 174°06'	1.7/25.5	18	
7 20	22 51.10	-17 54.7	2.120	2.964	12.9	20.1	7 20	22 47.50	-13 29.8	2.778	3.607	10.6	21.8
7 30	22 46.70	-18 19.7	2.043	2.962	10.0	19.9	7 30	22 43.43	-14 8.0	2.696	3.609	8.2	21.6
8 9	22 40.31	-18 48.0	1.989	2.961	6.8	19.7	8 9	22 37.89	-14 51.8	2.639	3.610	5.4	21.4
8 19	22 32.43	-19 15.1	1.960	2.959	3.8	19.5	8 19	22 31.25	-15 37.6	2.609	3.611	2.7	21.3
8 29	22 23.81	-19 36.0	1.958	2.957	3.5	19.5	8 29	22 24.08	-16 21.6	2.608	3.612	2.0	21.2
9 8	22 15.39	-19 46.5	1.984	2.956	6.3	19.6	9 8	22 17.00	-16 59.6	2.635	3.612	4.6	21.4
9 18	22 8.01	-19 44.3	2.037	2.955	9.6	19.8	9 18	22 10.64	-17 28.8	2.691	3.613	7.4	21.6
9 28	22 2.40	-19 28.6	2.113	2.954	12.5	20.0	9 28	22 5.55	-17 47.3	2.772	3.613	9.9	21.7
447124	2004 <i>VQ</i> ₈		8 27.5 328°55'	7.5/ 3.3	17		366940	2005 <i>VP</i> ₄₉		8 27.5 97°86'	4.7/ 1.4	18	
7 20	22 41.38	+10 13.3	1.724	2.495	18.4	20.7	7 20	22 47.75	+ 5 54.4	2.263	3.025	14.8	20.7
7 30	22 39.86	+10 39.8	1.615	2.466	16.0	20.5	7 30	22 43.98	+ 6 12.1	2.177	3.028	12.4	20.5
8 9	22 36.20	+10 41.8	1.524	2.437	13.1	20.2	8 9	22 38.44	+ 6 12.9	2.111	3.032	9.6	20.4
8 19	22 30.72	+10 16.2	1.453	2.409	10.2	20.0	8 19	22 31.58	+ 5 56.5	2.068	3.035	6.8	20.2
8 29	22 24.10	+ 9 22.5	1.404	2.382	7.9	19.8	8 29	22 24.02	+ 5 24.3	2.051	3.038	4.9	20.1
9 8	22 17.30	+ 8 4.1	1.378	2.356	7.8	19.7	9 8	22 16.55	+ 4 39.9	2.061	3.042	5.3	20.1
9 18	22 11.35	+ 6 28.1	1.377	2.330	10.2	19.8	9 18	22 9.91	+ 3 48.1	2.099	3.045	7.7	20.3
9 28	22 7.26	+ 4 44.3	1.400	2.306	13.6	19.9	9 28	22 4.78	+ 2 54.3	2.162	3.048	10.4	20.5
401572	2013 <i>FJ</i> ₁₇		8 27.5 169°76'	0°8/26.7	18		348099	2003 <i>YY</i> ₄		8 27.5 243°63'	5.7/21.1	18	
7 20	22 49.07	-10 30.6	2.631	3.452	11.4	22.0	7 20	22 50.00	-22 58.6	2.121	2.974	12.6	20.9
7 30	22 44.69	-10 56.8	2.548	3.454	8.9	21.8	7 30	22 46.13	-24 24.1	2.042	2.963	10.0	20.8
8 9	22 38.75	-11 30.3	2.489	3.457	5.9	21.6	8 9	22 40.13	-25 52.6	1.987	2.951	7.4	20.6
8 19	22 31.65	-12 8.0	2.456	3.459	2.7	21.4	8 19	22 32.45	-27 16.8	1.957	2.939	5.8	20.5
8 29	22 23.97	-12 46.0	2.453	3.461	1.1	21.3	8 29	22 23.86	-28 28.6	1.954	2.927	6.5	20.5
9 8	22 16.41	-13 20.6	2.478	3.462	4.2	21.5	9 8	22 15.31	-29 21.9	1.978	2.914	8.9	20.6
9 18	22 9.62	-13 48.4	2.532	3.464	7.3	21.7	9 18	22 7.75	-29 53.1	2.027	2.901	11.7	20.8
9 28	22 4.17	-14 7.3	2.611	3.464	10.0	21.9	9 28	22 1.99	-30 1.6	2.098	2.888	14.4	20.9
385803	2006 <i>DL</i> ₂₃		8 27.5 160°40'	1°5/26.3	16		211510	2003 <i>QP</i> ₃₈		8 27.5 30°75'	1.4/28.7	18	
7 20	22 55.12	-13 16.2	2.056	2.885	13.9	21.5	7 20	22 44.74	- 1 47.0	1.074	1.933	21.7	19.3
7 30	22 49.81	-13 30.4	1.978	2.889	10.8	21.3	7 30	22 43.18	- 2 29.9	1.020	1.943	17.3	19.1
8 9	22 42.40	-13 50.9	1.924	2.893	7.2	21.1	8 9	22 38.66	- 3 40.8	0.983	1.954	12.0	18.8
8 19	22 33.41	-14 13.9	1.895	2.897	3.4	20.8	8 19	22 31.86	- 5 14.6	0.965	1.966	6.2	18.6
8 29	22 23.67	-14 34.8	1.893	2.900	1.9	20.7	8 29	22 23.98	- 7 1.1	0.970	1.979	1.5	18.3
9 8	22 14.14	-14 49.4	1.921	2.903	5.4	21.0	9 8	22 16.48	- 8 46.9	0.998	1.993	6.4	18.7
9 18	22 5.75	-14 54.8	1.975	2.906	9.1	21.2	9 18	22 10.68	-10 20.3	1.049	2.008	11.9	19.0
9 28	21 59.23	-14 49.5	2.055	2.908	12.3	21.4	9 28	22 7.57	-11 32.9	1.121	2.023	16.6	19.4
315869	2008 <i>HH</i> ₇₀		8 27.5 187°60'	7°5/ 6.8	18		48766	1997 <i>JY</i> ₁₃		8 27.5 206°28'	0°2/27.3	18	
7 20	22 45.20	+18 39.3	2.519	3.191	15.4	20.5	7 20	22 51.92	- 7 32.2	1.895	2.720	15.0	19.3
7 30	22 41.94	+18 47.0	2.423	3.191	13.7	20.3	7 30	22 47.65	- 8 3.6	1.809	2.715	11.8	19.1
8 9	22 37.04	+18 32.1	2.344	3.191	11.7	20.2	8 9	22 41.17	- 8 48.2	1.743	2.710	8.0	18.8
8 19	22 30.90	+17 52.9	2.286	3.190	9.7	20.0	8 19	22 32.95	- 9 42.4	1.703	2.705	3.8	18.6
8 29	22 24.10	+16 49.6	2.252	3.190	8.0	19.9	8 29	22 23.79	-10 40.6	1.689	2.699	0.8	18.3
9 8	22 17.35	+15 25.4	2.244	3.189	7.5	19.9	9 8	22 14.70	-11 36.4	1.704	2.692	5.2	18.6
9 18	22 11.35	+13 45.7	2.263	3.188	8.4	20.0	9 18	22 6.66	-12 24.3	1.746	2.685	9.4	18.9
9 28	22 6.71	+11 57.7	2.308	3.187	10.2	20.1	9 28	22 0.53	-13 0.0	1.811	2.677	13.1	19.1
22296	1989 <i>TW</i> ₄		8 27.5 303°54'	6°1/23.3	18		137567	1999 <i>VZ</i> ₁₀₄		8 27.5 197°40'	0°9/28.3	18	
7 20	22 51.26	-19 40.0	1.318	2.192	17.5	18.7	7 20	22 52.11	- 4 38.7	1.927	2.740	15.2	21.2
7 30	22 48.35	-20 40.1	1.240	2.175	13.8	18.4	7 30	22 47.74	- 5 0.7	1.839	2.737	12.1	20.9
8 9	22 42.32	-21 47.7	1.181	2.157	9.8	18.2	8 9	22 41.20	- 5 37.3	1.773	2.734	8.4	20.7
8 19	22 33.70	-22 53.7	1.144	2.140	6.5	17.9	8 19	22 32.95	- 6 25.9	1.731	2.730	4.3	20.5
8 29	22 23.59	-23 47.2	1.131	2.123	6.8	17.9	8 29	22 23.79	- 7 21.7	1.716	2.726	1.0	20.2
9 8	22 13.54	-24 18.9	1.141	2.107	10.6	18.1	9 8	22 14.70	- 8 18.7	1.730	2.721	4.8	20.5
9 18	22 5.05	-24 24.2	1.173	2.091	15.0	18.3	9 18	22 6.65	- 9 11.1	1.771	2.715	9.0	20.7
9 28	21 59.37	-24 2.5	1.224	2.075	19.1	18.5	9 28	22 0.47	- 9 54.0	1.836	2.709	12.7	20.9
370275	2002 <i>QM</i> ₆₄		8 27.5 357°77'	1°6/26.7	18		50686	2000 <i>EZ</i> ₁₁₃		8 27.5 357°58'	2°2/25.9	18	
7 20	22 50.76	-12 32.9	1.139	2.012	19.8	20.3	7 20	22 46.89	-11 21.8	1.274	2.144	18.3	17.4
7 30	22 47.97	-12 31.9	1.074	2.009	15.5	20.0	7 30	22 44.64	-12 4.2	1.207	2.141	14.2	17.2
8 9	22 41.98	-12 41.8	1.027	2.006	10.4	19.7	8 9	22 39.59	-13 1.3	1.159	2.139	9.5	16.9
8 19	22 33.46	-12 57.7	1.000	2.005	4.9	19.4	8 19	22 32.32	-14 6.6	1.133	2.138	4.5	16.6
8 29	22 23.66	-13 13.0	0.996	2.004	2.1	19.2	8 29	22 23.90	-15 11.1	1.130	2.137	2.8	16.5
9 8	22 14.17	-13 20.8	1.015	2.005	7.5	19.6	9 8	22 15.72	-16 5.4	1.152	2.138	7.6	16.8
9 18	22 6.49	-13 16.7	1.056	2.007	12.8	19.9	9 18	22 9.05	-16 42.9	1.196	2.139	12.5	17.1
9 28	22 1.73	-12 58.5	1.118	2.010	17.5	20.2	9 28	22 4.92	-17 0.0	1.261	2.141	16.8	17.4
100050	Carloshernandez		8 27.5 320°02'	1°3/26.6	18		446968	2003 <i>UP</i> ₁₉₀		8 27			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
112926	2002 <i>QJ</i> ₆₆		8 27.5 75°54	0°6/27.1	18		324919	2007 <i>VC</i> ₃₀₉		8 27.5 211°17	2°4/29.4	17	
7 20	22 49.98	- 9 15.7	1.859	2.694	14.9	20.6	7 20	22 54.32	- 2 4.3	1.861	2.662	16.2	22.0
7 30	22 46.07	- 9 38.8	1.783	2.696	11.6	20.4	7 30	22 49.62	- 2 1.6	1.769	2.656	13.1	21.8
8 9	22 40.03	-10 12.7	1.729	2.699	7.8	20.2	8 9	22 42.58	- 2 14.4	1.696	2.649	9.4	21.6
8 19	22 32.37	-10 53.9	1.699	2.702	3.6	20.0	8 19	22 33.68	- 2 41.4	1.648	2.641	5.4	21.3
8 29	22 23.91	-11 37.1	1.696	2.705	1.0	19.8	8 29	22 23.74	- 3 19.5	1.626	2.633	2.4	21.1
9 8	22 15.63	-12 16.7	1.720	2.708	5.2	20.1	9 8	22 13.81	- 4 3.5	1.633	2.623	5.1	21.3
9 18	22 8.45	-12 48.0	1.770	2.711	9.3	20.3	9 18	22 4.95	- 4 47.9	1.666	2.613	9.2	21.5
9 28	22 3.15	-13 7.8	1.844	2.714	12.8	20.6	9 28	21 58.07	- 5 27.2	1.724	2.603	13.0	21.7
221449	2006 <i>AB</i> ₈₇		8 27.5 242°73	1°1/28.8	18		364123	2006 <i>BM</i> ₆₈		8 27.5 269°80	0°4/27.3	17	
7 20	22 45.27	- 2 50.7	2.464	3.268	12.6	20.4	7 20	22 53.24	- 8 50.1	1.341	2.191	18.7	21.4
7 30	22 41.95	- 3 23.8	2.371	3.263	10.0	20.2	7 30	22 49.64	- 9 2.4	1.262	2.183	14.8	21.1
8 9	22 37.04	- 4 10.3	2.301	3.258	7.0	20.0	8 9	22 43.06	- 9 29.7	1.202	2.175	10.1	20.8
8 19	22 30.92	- 5 7.9	2.256	3.253	3.7	19.8	8 19	22 34.04	-10 8.0	1.163	2.166	4.8	20.5
8 29	22 24.16	- 6 12.5	2.239	3.248	1.1	19.6	8 29	22 23.67	-10 50.8	1.149	2.158	1.0	20.2
9 8	22 17.44	- 7 19.3	2.251	3.242	3.8	19.8	9 8	22 13.38	-11 30.3	1.159	2.150	6.7	20.6
9 18	22 11.44	- 8 23.3	2.291	3.237	7.1	20.0	9 18	22 4.61	-12 0.1	1.194	2.142	12.0	20.9
9 28	22 6.76	- 9 19.8	2.357	3.232	10.2	20.2	9 28	21 58.50	-12 15.7	1.250	2.133	16.6	21.1
395780	2012 <i>VD</i> ₈₉		8 27.5 272°71	3°9/30.9	18		207985	1997 <i>WL</i> ₁₁		8 27.5 352°74	4°5/30.4	18	
7 20	22 49.49	+ 2 32.5	2.087	2.868	15.3	21.6	7 20	22 41.92	- 0 27.9	0.957	1.824	23.1	19.8
7 30	22 45.76	+ 2 41.8	1.975	2.844	12.7	21.4	7 30	22 41.52	- 0 0.3	0.892	1.816	19.0	19.5
8 9	22 39.96	+ 2 34.4	1.882	2.819	9.6	21.2	8 9	22 37.95	+ 0 0.7	0.841	1.809	14.1	19.2
8 19	22 32.44	+ 2 9.9	1.813	2.794	6.3	20.9	8 19	22 31.74	- 0 25.8	0.809	1.804	8.6	18.9
8 29	22 23.88	+ 1 30.0	1.771	2.769	4.0	20.7	8 29	22 24.07	- 1 15.9	0.795	1.801	4.6	18.7
9 8	22 15.15	+ 0 38.5	1.755	2.743	5.2	20.7	9 8	22 16.55	- 2 20.4	0.803	1.799	7.2	18.8
9 18	22 7.18	- 0 19.2	1.767	2.716	8.6	20.9	9 18	22 10.75	- 3 28.1	0.831	1.799	12.6	19.1
9 28	22 0.87	- 1 16.7	1.804	2.690	12.2	21.1	9 28	22 7.91	- 4 27.9	0.877	1.801	17.8	19.4
136651	1995 <i>HT</i> ₃		8 27.5 294°23	0°6/28.1	18		346473	2008 <i>TH</i> ₁₆₈		8 27.5 328°68	8°7/18.9	18	
7 20	22 46.77	- 5 6.4	1.946	2.771	14.7	20.2	7 20	22 46.32	-24 39.9	1.456	2.336	15.8	19.8
7 30	22 43.59	- 5 35.5	1.858	2.764	11.6	20.0	7 30	22 44.24	-26 43.7	1.392	2.325	12.7	19.6
8 9	22 38.40	- 6 19.3	1.791	2.756	8.0	19.7	8 9	22 39.39	-28 51.5	1.349	2.315	9.9	19.4
8 19	22 31.65	- 7 14.8	1.749	2.749	4.0	19.5	8 19	22 32.30	-30 51.1	1.329	2.306	8.7	19.3
8 29	22 24.04	- 8 17.2	1.733	2.742	0.7	19.2	8 29	22 23.98	-32 29.6	1.334	2.297	10.0	19.4
9 8	22 16.49	- 9 20.1	1.744	2.735	4.7	19.5	9 8	22 15.77	-33 37.5	1.362	2.289	12.8	19.5
9 18	22 9.88	-10 17.7	1.782	2.728	8.8	19.7	9 18	22 8.98	-34 10.6	1.411	2.281	16.1	19.7
9 28	22 4.98	-11 4.9	1.844	2.722	12.4	19.9	9 28	22 4.68	-34 9.8	1.478	2.274	19.1	19.9
93685	2000 <i>VG</i> ₁₅		8 27.5 29°70	5°4/1.3	18		183916	2004 <i>CP</i> ₁₀₃		8 27.6 286°00	3°3/30.3	18	
7 20	22 46.75	+ 5 41.4	1.563	2.357	19.0	18.7	7 20	22 47.41	+ 1 11.7	1.534	2.349	18.4	20.3
7 30	22 43.97	+ 5 51.1	1.489	2.362	15.9	18.5	7 30	22 44.74	+ 1 0.3	1.444	2.337	15.1	20.1
8 9	22 38.84	+ 5 36.4	1.432	2.367	12.2	18.3	8 9	22 39.58	+ 0 25.7	1.372	2.324	11.1	19.8
8 19	22 31.89	+ 4 57.1	1.396	2.373	8.4	18.1	8 19	22 32.37	- 0 31.3	1.321	2.312	6.7	19.5
8 29	22 24.01	+ 3 55.9	1.384	2.378	5.6	17.9	8 29	22 23.97	- 1 46.5	1.295	2.300	3.4	19.3
9 8	22 16.29	+ 2 39.6	1.398	2.385	6.3	18.0	9 8	22 15.52	- 3 12.4	1.295	2.288	5.7	19.4
9 18	22 9.78	+ 1 16.4	1.436	2.391	9.6	18.2	9 18	22 8.22	- 4 39.6	1.319	2.276	10.2	19.6
9 28	22 5.34	- 0 4.6	1.497	2.398	13.3	18.4	9 28	22 3.08	- 5 59.2	1.367	2.264	14.6	19.9
314440	2005 <i>UT</i> ₅₃₀		8 27.5 303°91	3°4/31.2	18		261467	2005 <i>VU</i> ₉₂		8 27.6 316°72	1°0/28.5	18	
7 20	22 44.95	+ 3 5.3	2.102	2.890	15.0	21.2	7 20	22 45.61	- 4 20.1	1.990	2.812	14.5	21.3
7 30	22 42.04	+ 2 54.1	2.006	2.880	12.3	20.9	7 30	22 42.68	- 4 42.0	1.898	2.801	11.5	21.0
8 9	22 37.31	+ 2 24.4	1.931	2.870	9.3	20.7	8 9	22 37.80	- 5 18.5	1.828	2.791	8.0	20.8
8 19	22 31.12	+ 1 37.0	1.878	2.861	6.0	20.5	8 19	22 31.40	- 6 7.1	1.781	2.781	4.1	20.5
8 29	22 24.14	+ 0 34.8	1.852	2.851	3.6	20.4	8 29	22 24.16	- 7 3.6	1.762	2.771	1.0	20.3
9 8	22 17.16	- 0 37.2	1.852	2.842	4.7	20.4	9 8	22 16.95	- 8 2.2	1.769	2.761	4.6	20.5
9 18	22 11.01	- 1 52.5	1.880	2.833	7.9	20.6	9 18	22 10.62	- 8 57.0	1.803	2.752	8.5	20.8
9 28	22 6.39	- 3 4.8	1.933	2.824	11.3	20.8	9 28	22 5.94	- 9 43.2	1.861	2.743	12.1	21.0
135990	2002 <i>UL</i> ₃₂		8 27.5 349°27	7°5/21.8	18		51189	2000 <i>HA</i> ₉₁		8 27.6 248°05	5°7/2.3	18	
7 20	22 48.88	-24 37.9	1.440	2.317	16.2	18.8	7 20	22 47.91	+ 8 24.7	2.139	2.890	15.8	18.9
7 30	22 46.09	-25 41.8	1.377	2.310	12.9	18.6	7 30	22 44.35	+ 8 44.8	2.044	2.884	13.5	18.7
8 9	22 40.51	-26 46.0	1.333	2.303	9.7	18.4	8 9	22 38.88	+ 8 45.5	1.967	2.877	10.8	18.5
8 19	22 32.73	-27 41.3	1.312	2.298	7.6	18.2	8 19	22 31.90	+ 8 25.8	1.912	2.870	8.0	18.4
8 29	22 23.88	-28 18.1	1.314	2.293	8.2	18.3	8 29	22 24.08	+ 7 46.5	1.883	2.863	6.0	18.2
9 8	22 15.30	-28 30.0	1.340	2.289	11.1	18.4	9 8	22 16.26	+ 6 51.2	1.880	2.856	6.2	18.2
9 18	22 8.27	-28 15.0	1.388	2.287	14.5	18.6	9 18	22 9.27	+ 5 45.2	1.903	2.848	8.4	18.4
9 28	22 3.77	-27 34.6	1.455	2.285	17.7	18.8	9 28	22 3.88	+ 4 35.3	1.952	2.841	11.3	18.5
95405	2002 <i>CN</i> ₂₁₀		8 27.5 63°91	1°2/26.4	18		283852	2003 <i>UF</i> ₂₃₃		8 27.6 2°90	0°9/28.2	18	
7 20	22 48.33	-11 1.6	2.094	2.930	13.4	20.1	7 20	22 49.51	- 6 39.2	1.569	2.408	17.0	19.9
7 30	22 44.49	-11 33.7	2.025	2.940	10.4	19.9	7 30	22 46.13	- 6 38.5	1.494	2.407	13.4	19.7
8 9	22 38.80	-12 14.5	1.978	2.950	6.9	19.7	8 9	22 40.33	- 6 51.6	1.439	2.407	9.3	19.4
8 19	22 31.75	-12 59.8	1.956	2.960	3.2	19.5	8 19	22 32.63	- 7 15.8	1.406	2.407	4.6	19.1
8 29	22 24.06	-13 44.8	1.962	2.970	1.6	19.4	8 29	22 23.97	- 7 46.6	1.399	2.408	1.0	18.9
9 8	22 16.57	-14 24.2	1.995	2.980	5.0	19.7	9 8	22 15.49	- 8 18.2	1.417	2.410	5.4	19.2
9 18	22 10.08	-14 54.4	2.056	2.990	8.6	19.9	9 18	22 8.28	- 8 45.3	1.461	2.412	9.9	19.5
9 28	22 5.23	-15 12.7	2.140	3.000	11.6	20.1	9 28	22 3.23	- 9 3.6	1.527	2.414	13.9	19.7
438116	2005 <i>NX</i> ₄₄		8 27.5 228°93	7°5/5.9	15		466067	2011 <i>WB</i> ₇₃					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V	
479123	2013 <i>BR</i> ₂₂	8 27.6 246°76' 1.4°/28.9 18						26736	Rojeski	8 27.6 24°46' 4.8°/31.2 18				
7 20	22 48.22	- 3 17.0	2.164	2.972	14.0	21.7	7 20	22 47.33	+ 2 36.7	1.296	2.119	20.7	18.6	
7 30	22 44.53	- 3 33.3	2.070	2.963	11.2	21.5	7 30	22 44.86	+ 2 49.3	1.229	2.124	17.1	18.4	
8 9	22 38.97	- 4 3.6	1.997	2.954	7.9	21.3	8 9	22 39.70	+ 2 36.5	1.179	2.130	12.8	18.2	
8 19	22 31.93	- 4 45.6	1.948	2.945	4.2	21.1	8 19	22 32.41	+ 1 58.7	1.149	2.136	8.2	17.9	
8 29	22 24.09	- 5 35.9	1.927	2.936	1.4	20.9	8 29	22 24.05	+ 0 59.8	1.142	2.143	4.9	17.8	
9 8	22 16.26	- 6 29.3	1.934	2.926	4.3	21.0	9 8	22 15.91	- 0 12.5	1.159	2.151	6.4	17.9	
9 18	22 9.28	- 7 20.7	1.969	2.916	8.0	21.3	9 18	22 9.24	- 1 28.6	1.199	2.159	10.6	18.1	
9 28	22 3.87	- 8 5.4	2.028	2.906	11.4	21.5	9 28	22 5.01	- 2 39.0	1.262	2.168	14.9	18.4	
412420	2014 <i>DV</i> ₉₇	8 27.6 215°07' 0.3°/27.8 18						33730	1999 <i>NH</i> ₂₃	8 27.6 16°80' 3.6°/23.9 18				
7 20	22 49.42	- 5 48.3	2.229	3.043	13.4	22.4	7 20	22 45.91	-15 14.5	1.871	2.728	13.9	18.2	
7 30	22 45.40	- 6 22.5	2.136	3.036	10.6	22.2	7 30	22 43.00	-16 29.9	1.802	2.730	10.7	18.0	
8 9	22 39.52	- 7 9.5	2.065	3.028	7.3	22.0	8 9	22 38.04	-17 53.9	1.756	2.732	7.2	17.8	
8 19	22 32.18	- 8 6.4	2.020	3.021	3.5	21.8	8 19	22 31.51	-19 19.7	1.735	2.735	4.1	17.7	
8 29	22 24.05	- 9 8.5	2.003	3.012	0.5	21.5	8 29	22 24.20	-20 39.2	1.741	2.739	4.2	17.7	
9 8	22 15.95	-10 10.3	2.014	3.003	4.4	21.8	9 8	22 17.05	-21 45.5	1.774	2.742	7.2	17.9	
9 18	22 8.68	-11 6.5	2.053	2.994	8.2	22.0	9 18	22 10.94	-22 33.6	1.832	2.746	10.7	18.1	
9 28	22 2.98	-11 52.8	2.118	2.984	11.5	22.2	9 28	22 6.65	-23 1.5	1.912	2.750	13.7	18.3	
273871	2007 <i>GD</i> ₇₅	8 27.6 33°55' 3.9°/24.5 17						318542	2005 <i>GH</i> ₃	8 27.6 87°46' 4.3°/24.3 17				
7 20	22 50.05	-16 2.6	1.514	2.377	16.3	20.2	7 20	22 55.00	-16 36.6	1.486	2.342	16.9	20.8	
7 30	22 46.65	-16 57.5	1.452	2.382	12.6	19.9	7 30	22 50.36	-17 41.0	1.437	2.363	13.0	20.6	
8 9	22 40.70	-18 0.4	1.410	2.387	8.5	19.7	8 9	22 43.07	-18 52.0	1.408	2.383	8.7	20.4	
8 19	22 32.80	-19 4.0	1.392	2.393	4.8	19.5	8 19	22 33.85	-20 1.5	1.404	2.403	5.0	20.3	
8 29	22 23.97	-19 59.8	1.399	2.398	4.5	19.5	8 29	22 23.83	-21 0.3	1.425	2.423	4.9	20.3	
9 8	22 15.43	-20 40.6	1.431	2.405	8.0	19.7	9 8	22 14.32	-21 41.7	1.473	2.442	8.3	20.6	
9 18	22 8.32	-21 2.3	1.487	2.411	12.0	20.0	9 18	22 6.44	-22 2.3	1.544	2.461	12.1	20.8	
9 28	22 3.51	-21 3.5	1.565	2.418	15.5	20.2	9 28	22 1.02	-22 2.0	1.637	2.480	15.5	21.1	
432760	2011 <i>FQ</i> ₇	8 27.6 113°52' 5.7°/23.2 17						222013	1998 <i>RF</i> ₄₅	8 27.6 357°87' 1.6°/28.9 18				
7 20	22 57.06	-23 22.0	1.817	2.665	14.6	21.3	7 20	22 40.94	- 3 13.9	1.461	2.308	17.6	19.5	
7 30	22 51.63	-24 10.6	1.759	2.677	11.5	21.2	7 30	22 39.64	- 3 31.9	1.386	2.303	14.0	19.2	
8 9	22 43.77	-24 58.7	1.723	2.688	8.3	21.0	8 9	22 36.06	- 4 9.7	1.330	2.299	9.9	19.0	
8 19	22 34.14	-25 39.2	1.712	2.700	5.9	20.9	8 19	22 30.67	- 5 4.4	1.296	2.296	5.2	18.7	
8 29	22 23.75	-26 5.3	1.728	2.710	6.2	20.9	8 29	22 24.34	- 6 10.3	1.286	2.295	1.6	18.5	
9 8	22 13.79	-26 12.5	1.770	2.721	8.7	21.1	9 8	22 18.15	- 7 19.6	1.301	2.295	5.3	18.7	
9 18	22 5.28	-25 59.7	1.837	2.731	11.7	21.3	9 18	22 13.11	- 8 24.2	1.339	2.297	9.9	19.0	
9 28	21 59.03	-25 28.2	1.927	2.741	14.6	21.5	9 28	22 10.12	- 9 17.3	1.400	2.301	14.1	19.2	
145128	2005 <i>GG</i> ₁₄₉	8 27.6 316°29' 0.7°/26.9 18						84414	2002 <i>TG</i> ₁₉₅	8 27.6 189°62' 3.1°/24.4 18				
7 20	22 46.78	- 8 13.9	1.799	2.639	15.1	19.9	7 20	22 51.64	-17 45.2	2.374	3.212	12.0	20.1	
7 30	22 43.62	- 8 54.9	1.715	2.632	11.8	19.7	7 30	22 46.98	-18 27.0	2.295	3.211	9.3	20.0	
8 9	22 38.61	- 9 49.8	1.653	2.625	7.9	19.4	8 9	22 40.48	-19 12.6	2.240	3.210	6.3	19.8	
8 19	22 31.82	-10 54.4	1.615	2.618	3.7	19.2	8 19	22 32.60	-19 57.4	2.210	3.208	3.7	19.6	
8 29	22 24.12	-12 2.4	1.603	2.612	1.2	19.0	8 29	22 24.03	-20 36.1	2.209	3.206	3.6	19.6	
9 8	22 16.49	-13 6.8	1.618	2.606	5.5	19.3	9 8	22 15.59	-21 4.3	2.237	3.203	6.1	19.8	
9 18	22 9.90	-14 1.4	1.659	2.600	9.7	19.5	9 18	22 8.08	-21 19.4	2.291	3.200	9.1	19.9	
9 28	22 5.15	-14 41.6	1.723	2.594	13.4	19.7	9 28	22 2.16	-21 20.2	2.370	3.197	11.8	20.1	
340164	2005 <i>YY</i> ₁₃₈	8 27.6 47°43' 6.2°/31.8 17						274900	2009 <i>SJ</i> ₉₁	8 27.6 242°54' 2.0°/29.3 18				
7 20	22 54.05	+ 3 33.3	1.505	2.300	19.6	20.0	7 20	22 50.37	- 1 55.3	1.877	2.685	15.8	22.0	
7 30	22 49.65	+ 4 34.9	1.440	2.313	16.3	19.8	7 30	22 46.58	- 2 7.8	1.781	2.673	12.8	21.7	
8 9	22 42.66	+ 5 16.8	1.393	2.327	12.6	19.6	8 9	22 40.57	- 2 37.0	1.706	2.661	9.1	21.5	
8 19	22 33.71	+ 5 37.1	1.367	2.341	8.9	19.4	8 19	22 32.79	- 3 21.4	1.654	2.648	5.1	21.2	
8 29	22 23.82	+ 5 36.1	1.366	2.355	6.4	19.3	8 29	22 23.98	- 4 17.2	1.628	2.635	2.0	21.0	
9 8	22 14.22	+ 5 17.7	1.389	2.370	7.2	19.4	9 8	22 15.15	- 5 18.4	1.630	2.622	4.9	21.2	
9 18	22 6.07	+ 4 47.5	1.437	2.386	10.3	19.6	9 18	22 7.28	- 6 18.7	1.659	2.608	9.1	21.4	
9 28	22 0.26	+ 4 12.7	1.508	2.401	13.7	19.9	9 28	22 1.28	- 7 12.0	1.712	2.594	12.9	21.6	
54613	2000 <i>RD</i> ₈₀	8 27.6 117°84' 4.4°/31.8 18						79869	1998 <i>YG</i> ₅	8 27.6 244°42' 3.0°/24.3 18				
7 20	22 50.27	+ 4 10.9	2.259	3.025	14.7	18.7	7 20	22 48.22	-15 0.1	2.162	3.006	12.8	19.8	
7 30	22 45.94	+ 4 37.3	2.175	3.031	12.2	18.5	7 30	22 44.61	-16 5.2	2.076	2.997	9.9	19.6	
8 9	22 39.79	+ 4 48.3	2.111	3.037	9.4	18.4	8 9	22 39.06	-17 18.6	2.014	2.987	6.6	19.4	
8 19	22 32.27	+ 4 43.6	2.072	3.043	6.5	18.2	8 19	22 32.01	-18 34.7	1.977	2.977	3.7	19.2	
8 29	22 24.06	+ 4 24.5	2.058	3.048	4.6	18.1	8 29	22 24.12	-19 46.6	1.969	2.967	3.6	19.2	
9 8	22 15.95	+ 3 54.2	2.072	3.054	5.2	18.1	9 8	22 16.28	-20 48.2	1.988	2.957	6.5	19.3	
9 18	22 8.73	+ 3 16.8	2.114	3.059	7.7	18.3	9 18	22 9.32	-21 34.8	2.033	2.946	9.8	19.5	
9 28	22 3.06	+ 2 37.4	2.181	3.065	10.5	18.5	9 28	22 3.99	-22 3.9	2.102	2.936	12.9	19.7	
66618	1999 <i>RT</i> ₂₀₁	8 27.6 15°97' 9.3°/ 3.1 18						12439	Okasaki	8 27.6 100°34' 0.9°/26.6 18				
7 20	22 46.99	+ 8 16.0	1.226	2.030	22.8	18.3	7 20	22 48.36	-10 30.5	2.403	3.229	12.2	17.9	
7 30	22 44.74	+ 9 36.9	1.166	2.037	19.5	18.1	7 30	22 44.28	-11 3.2	2.332	3.242	9.4	17.7	
8 9	22 39.68	+10 30.8	1.122	2.045	15.9	17.9	8 9	22 38.56	-11 43.8	2.284	3.254	6.2	17.5	
8 19	22 32.41	+10 53.5	1.095	2.055	12.3	17.7	8 19	22 31.66	-12 28.7	2.263	3.266	2.9	17.3	
8 29	22 24.03	+10 44.0	1.089	2.067	9.7	17.6	8 29	22 24.20	-13 13.6	2.269	3.277	1.3	17.2	
9 8	22 15.92	+10 6.7	1.105	2.080	9.7	17.6	9 8	22 16.93	-13 54.0	2.305	3.289	4.5	17.5	
9 18	22 9.34	+ 9 9.6	1.143	2.094	12.0	17.8	9 18	22 10.51	-14 26.4	2.368	3.300	7.7	17.7	
9 28	22 5.33	+ 8 3.5	1.201	2.109	15.3	18.1	9 28	22 5.54	-14 48.5	2.456	3.312	10.5	17.9	
254949	2005 <i>SP</i> ₁₉₂	8 27.6 36°62' 0.4°/27.9 18						242480	2004 <i>TZ</i> ₁₅₇	8 27.6 283°36' 6.9°/ 2.7 18				
7 20	22 47.39	- 6 18.8	1.694	2.530	16.0	20.2	7 20	22 47.48	+ 9 31.2	1.826	2.585	17.9	21.0	
7 30	22 44.14	- 6 41.1	1.633	2.545	12.5	20.0	7 30	22 44.50</						

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
512619	2016 <i>TK</i> ₃₇		8 27.6 231°30	1.6/28.9	18		434232	2003 <i>SO</i> ₂₉₅		8 27.6	3°24	4°7/31.2	18
7 20	22 50.98	- 3 59.8	2.082	2.890	14.4	22.0	7 20	22 42.81	+ 1 51.0	1.236	2.074	20.7	20.6
7 30	22 46.75	- 4 0.6	1.990	2.883	11.6	21.8	7 30	22 41.50	+ 2 8.8	1.168	2.072	17.1	20.3
8 9	22 40.51	- 4 14.0	1.919	2.876	8.2	21.6	8 9	22 37.54	+ 2 1.5	1.117	2.072	12.8	20.1
8 19	22 32.70	- 4 38.4	1.872	2.869	4.4	21.3	8 19	22 31.47	+ 1 29.1	1.085	2.074	8.2	19.8
8 29	22 24.03	- 5 10.6	1.853	2.861	1.6	21.1	8 29	22 24.30	+ 0 35.2	1.075	2.076	4.9	19.7
9 8	22 15.40	- 5 46.2	1.862	2.853	4.5	21.3	9 8	22 17.31	- 0 32.5	1.087	2.081	6.4	19.8
9 18	22 7.69	- 6 20.7	1.898	2.845	8.3	21.5	9 18	22 11.72	- 1 44.4	1.123	2.086	10.7	20.0
9 28	22 1.68	- 6 49.8	1.959	2.836	11.8	21.7	9 28	22 8.53	- 2 51.0	1.180	2.094	15.0	20.3
218095	2002 <i>JC</i> ₁₂₃		8 27.6 48°90	0°8/26.7	18		24599	5099 <i>T</i> ₋₃		8 27.6 203°34	1°7/25.6	18	
7 20	22 45.51	- 8 17.7	2.181	3.012	13.1	20.2	7 20	22 46.49	-11 39.7	2.413	3.247	11.9	19.4
7 30	22 42.34	- 9 10.5	2.104	3.016	10.2	20.0	7 30	22 42.99	-12 34.8	2.331	3.246	9.2	19.2
8 9	22 37.42	-10 14.9	2.050	3.020	6.8	19.8	8 9	22 37.82	-13 38.6	2.272	3.244	6.1	19.0
8 19	22 31.18	-11 26.7	2.021	3.025	3.1	19.5	8 19	22 31.41	-14 46.7	2.240	3.242	2.9	18.8
8 29	22 24.29	-12 40.2	2.021	3.029	1.2	19.4	8 29	22 24.34	-15 54.0	2.235	3.240	2.1	18.7
9 8	22 17.52	-13 49.4	2.048	3.034	4.8	19.7	9 8	22 17.35	-16 54.8	2.260	3.238	5.1	18.9
9 18	22 11.61	-14 49.1	2.102	3.038	8.3	19.9	9 18	22 11.13	-17 45.1	2.312	3.236	8.2	19.1
9 28	22 7.21	-15 35.6	2.182	3.043	11.4	20.1	9 28	22 6.33	-18 21.9	2.388	3.234	11.1	19.3
353498	2011 <i>SA</i> ₈₅		8 27.6 90°59	1°1/26.5	18		290949	2005 <i>WZ</i> ₁₆₈		8 27.6 99°45	3°6/31.5	18	
7 20	22 48.35	-10 16.3	2.027	2.863	13.8	21.0	7 20	22 47.16	+ 3 20.4	2.326	3.101	14.1	20.7
7 30	22 44.69	-10 53.5	1.949	2.864	10.7	20.8	7 30	22 43.52	+ 3 24.9	2.240	3.104	11.6	20.5
8 9	22 39.09	-11 41.0	1.894	2.865	7.1	20.6	8 9	22 38.19	+ 3 13.8	2.174	3.107	8.8	20.3
8 19	22 32.00	-12 34.6	1.863	2.866	3.3	20.4	8 19	22 31.58	+ 2 47.5	2.132	3.110	5.8	20.2
8 29	22 24.17	-13 28.6	1.860	2.868	1.5	20.2	8 29	22 24.31	+ 2 8.2	2.117	3.113	3.7	20.0
9 8	22 16.47	-14 17.5	1.884	2.869	5.2	20.5	9 8	22 17.13	+ 1 19.8	2.130	3.116	4.6	20.1
9 18	22 9.75	-14 56.7	1.935	2.870	8.9	20.7	9 18	22 10.76	+ 0 27.0	2.170	3.119	7.3	20.3
9 28	22 4.73	-15 23.0	2.010	2.871	12.2	20.9	9 28	22 5.82	- 0 25.0	2.235	3.122	10.1	20.5
75452	1999 <i>XP</i> ₁₄₂		8 27.6 53°73	17°0/11.9	18		160208	2002 <i>CY</i> ₇₇		8 27.6 134°95	2°1/25.2	18	
7 20	22 59.38	+25 8.4	1.427	2.088	25.8	17.9	7 20	22 47.10	-12 41.5	2.336	3.172	12.2	21.1
7 30	22 54.47	+27 51.7	1.378	2.110	23.8	17.8	7 30	22 43.48	-13 41.2	2.260	3.177	9.4	20.9
8 9	22 46.36	+30 1.8	1.342	2.133	21.6	17.7	8 9	22 38.16	-14 48.9	2.209	3.181	6.2	20.7
8 19	22 35.65	+31 29.5	1.322	2.156	19.5	17.7	8 19	22 31.56	-16 0.0	2.183	3.186	3.1	20.5
8 29	22 23.56	+32 8.3	1.319	2.180	17.9	17.6	8 29	22 24.32	-17 8.7	2.186	3.190	2.5	20.5
9 8	22 11.70	+31 58.2	1.334	2.204	17.0	17.6	9 8	22 17.20	-18 9.4	2.218	3.194	5.4	20.7
9 18	22 1.59	+31 5.5	1.368	2.228	17.1	17.7	9 18	22 10.92	-18 58.1	2.277	3.198	8.5	20.9
9 28	21 54.44	+29 42.0	1.420	2.252	18.0	17.9	9 28	22 6.12	-19 32.1	2.360	3.201	11.4	21.1
117725	2005 <i>GU</i> ₁₂		8 27.6 157°19	1°8/26.2	17		118361	1999 <i>FX</i> ₄		8 27.6 227°99	1°6/26.1	18	
7 20	22 53.46	-11 23.5	1.620	2.462	16.3	20.6	7 20	22 52.95	-12 7.0	2.046	2.877	13.8	21.0
7 30	22 49.18	-12 0.1	1.548	2.466	12.7	20.4	7 30	22 48.42	-12 39.8	1.954	2.866	10.8	20.8
8 9	22 42.38	-12 48.1	1.496	2.469	8.5	20.1	8 9	22 41.73	-13 21.7	1.885	2.855	7.3	20.6
8 19	22 33.64	-13 42.1	1.469	2.472	4.0	19.9	8 19	22 33.34	-14 8.3	1.841	2.843	3.4	20.3
8 29	22 23.93	-14 35.1	1.468	2.475	2.2	19.8	8 29	22 24.01	-14 54.2	1.824	2.831	2.1	20.2
9 8	22 14.44	-15 20.0	1.493	2.477	6.4	20.0	9 8	22 14.71	-15 33.8	1.836	2.818	5.7	20.4
9 18	22 6.30	-15 51.9	1.544	2.479	10.8	20.3	9 18	22 6.40	-16 2.6	1.875	2.805	9.6	20.6
9 28	22 0.40	-16 7.8	1.618	2.481	14.6	20.5	9 28	21 59.89	-16 18.1	1.938	2.791	13.0	20.8
248001	2004 <i>DS</i> ₇₁		8 27.6 199°77	3°5/31.4	18		160063	1999 <i>VV</i> ₂₀₄		8 27.6 236°04	0°2/27.8	18	
7 20	22 48.79	+ 3 37.6	2.476	3.241	13.6	21.0	7 20	22 47.51	- 6 57.5	2.647	3.459	11.6	22.0
7 30	22 44.72	+ 3 38.6	2.380	3.238	11.2	20.8	7 30	22 43.64	- 7 20.9	2.550	3.449	9.1	21.8
8 9	22 38.97	+ 3 24.4	2.305	3.235	8.5	20.6	8 9	22 38.21	- 7 53.9	2.476	3.439	6.2	21.6
8 19	22 31.94	+ 2 55.4	2.254	3.231	5.7	20.5	8 19	22 31.59	- 8 34.0	2.428	3.429	3.0	21.4
8 29	22 24.22	+ 2 13.6	2.231	3.226	3.6	20.3	8 29	22 24.32	- 9 17.9	2.409	3.419	0.5	21.2
9 8	22 16.52	+ 1 22.7	2.236	3.221	4.5	20.4	9 8	22 17.07	-10 1.4	2.419	3.408	3.8	21.4
9 18	22 9.57	+ 0 27.3	2.269	3.216	7.1	20.5	9 18	22 10.50	-10 40.7	2.457	3.397	7.0	21.6
9 28	22 4.00	- 0 27.6	2.328	3.210	10.0	20.7	9 28	22 5.21	-11 12.6	2.521	3.385	9.9	21.8
71607	2000 <i>DO</i> ₁₀₂		8 27.6 297°57	2°6/24.9	18		168943	2000 <i>YG</i> ₁₁₈		8 27.6 288°58	2°8/25.5	18	
7 20	22 47.75	-15 38.0	2.259	3.103	12.3	19.0	7 20	22 50.06	-12 26.5	1.423	2.283	17.3	20.1
7 30	22 44.16	-16 17.1	2.170	3.090	9.5	18.8	7 30	22 47.19	-13 15.2	1.336	2.265	13.6	19.8
8 9	22 38.72	-17 2.1	2.104	3.077	6.4	18.5	8 9	22 41.50	-14 18.2	1.269	2.247	9.2	19.5
8 19	22 31.86	-17 48.7	2.063	3.064	3.4	18.3	8 19	22 33.45	-15 29.4	1.225	2.228	4.5	19.2
8 29	22 24.23	-18 31.6	2.051	3.052	3.1	18.3	8 29	22 23.99	-16 39.9	1.205	2.210	3.4	19.1
9 8	22 16.64	-19 5.8	2.065	3.039	5.9	18.5	9 8	22 14.47	-17 40.1	1.210	2.192	7.9	19.3
9 18	22 9.91	-19 28.0	2.106	3.027	9.2	18.6	9 18	22 6.26	-18 22.7	1.239	2.174	12.9	19.5
9 28	22 4.73	-19 36.0	2.171	3.014	12.2	18.8	9 28	22 0.53	-18 43.7	1.288	2.156	17.3	19.7
250007	2002 <i>AR</i> ₉		8 27.6 252°06	3°3/30.5	18		516822	2010 <i>RA</i> ₁₇₆		8 27.6 273°80	0°4/27.3	18	
7 20	22 50.91	+ 0 17.9	2.292	3.075	14.0	20.6	7 20	22 50.87	-10 3.6	2.197	3.022	13.2	21.2
7 30	22 46.51	+ 0 43.1	2.197	3.069	11.5	20.4	7 30	22 46.56	-10 9.5	2.107	3.015	10.4	21.0
8 9	22 40.26	+ 0 55.7	2.122	3.062	8.6	20.3	8 9	22 40.34	-10 23.3	2.040	3.007	7.0	20.8
8 19	22 32.58	+ 0 55.7	2.073	3.056	5.5	20.1	8 19	22 32.63	-10 42.5	1.997	3.000	3.3	20.5
8 29	22 24.11	+ 0 44.6	2.050	3.049	3.4	19.9	8 29	22 24.15	-11 3.3	1.983	2.992	0.8	20.3
9 8	22 15.67	+ 0 25.3	2.055	3.042	4.6	20.0	9 8	22 15.75	-11 21.7	1.997	2.985	4.6	20.6
9 18	22 8.05	+ 0 1.3	2.088	3.036	7.6	20.2	9 18	22 8.25	-11 34.5	2.038	2.977	8.3	20.8
9 28	22 1.96	- 0 23.2	2.147	3.029	10.7	20.3	9 28	22 2.39	-11 39.1	2.103	2.970	11.6	21.0
27120	Isabelhawkins		8 27.6 8°36	2°3/26.1	18		513874	2013 <i>JY</i> ₅₂		8 27.6 118°72			

EPHEMERIDES

8 27.6

8 27.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
505122	2012 <i>EY</i> ₁₀		8 27.6 189°46	0°1/27.6 17			328199	2008 <i>EX</i> ₃₈		8 27.6 266°63	0°7/26.9 18		
7 20	22 52.30	- 6 45.4	1.660	2.490	16.6	22.1	7 20	22 46.38	- 7 49.1	2.149	2.978	13.4	20.7
7 30	22 48.28	- 7 16.9	1.581	2.490	13.1	21.8	7 30	22 43.17	- 8 40.1	2.060	2.970	10.4	20.5
8 9	22 41.81	- 8 3.8	1.521	2.489	8.9	21.6	8 9	22 38.13	- 9 44.1	1.992	2.961	7.0	20.3
8 19	22 33.43	- 9 2.3	1.486	2.488	4.2	21.3	8 19	22 31.64	-10 57.0	1.950	2.953	3.2	20.0
8 29	22 24.03	-10 5.9	1.477	2.486	0.7	21.0	8 29	22 24.37	-12 13.2	1.935	2.944	1.1	19.8
9 8	22 14.75	-11 7.3	1.494	2.484	5.6	21.4	9 8	22 17.12	-13 26.3	1.949	2.935	4.9	20.1
9 18	22 6.70	-12 0.0	1.538	2.482	10.2	21.7	9 18	22 10.70	-14 30.4	1.990	2.926	8.6	20.3
9 28	22 0.79	-12 39.2	1.605	2.479	14.1	21.9	9 28	22 5.84	-15 21.4	2.055	2.918	12.0	20.5
389565	2010 <i>VR</i> ₁₀₉		8 27.6 292°03	0°5/28.5 16			519913	2013 <i>QJ</i> ₉₆		8 27.6 299°67	2°2/26.3 18		
7 20	22 40.47	- 5 16.1	4.307	5.105	7.7	21.8	7 20	22 54.40	-13 45.7	1.388	2.245	17.8	20.9
7 30	22 37.58	- 5 37.3	4.209	5.099	6.0	21.6	7 30	22 50.57	-13 56.6	1.307	2.233	14.0	20.6
8 9	22 33.82	- 6 4.8	4.135	5.093	4.2	21.5	8 9	22 43.75	-14 16.4	1.246	2.222	9.5	20.3
8 19	22 29.43	- 6 37.2	4.089	5.087	2.1	21.3	8 19	22 34.49	-14 40.3	1.207	2.210	4.6	20.0
8 29	22 24.71	- 7 12.6	4.072	5.081	0.5	21.2	8 29	22 23.89	-15 1.4	1.192	2.199	2.7	19.9
9 8	22 20.03	- 7 48.7	4.085	5.075	2.3	21.3	9 8	22 13.39	-15 13.4	1.203	2.188	7.4	20.1
9 18	22 15.71	- 8 23.4	4.127	5.069	4.4	21.5	9 18	22 4.39	-15 11.9	1.237	2.178	12.4	20.4
9 28	22 12.09	- 8 54.5	4.196	5.064	6.2	21.6	9 28	21 58.06	-14 55.0	1.293	2.168	16.8	20.6
386667	2009 <i>UO</i> ₁₀₁		8 27.6 298°75	2°1/26.0 18			216651	2003 <i>TB</i> ₄₉		8 27.6 73°71	2°5/29.3 17		
7 20	22 48.74	-11 7.8	1.495	2.351	16.8	21.4	7 20	22 56.11	- 3 6.5	1.378	2.203	19.6	20.1
7 30	22 46.07	-11 49.3	1.401	2.327	13.2	21.1	7 30	22 51.34	- 2 53.6	1.323	2.225	15.7	19.9
8 9	22 40.71	-12 45.7	1.327	2.304	9.0	20.8	8 9	22 43.83	- 2 58.8	1.287	2.246	11.0	19.7
8 19	22 33.09	-13 52.0	1.276	2.280	4.3	20.5	8 19	22 34.32	- 3 19.9	1.272	2.268	6.1	19.5
8 29	22 24.08	-15 0.2	1.249	2.256	2.6	20.3	8 29	22 23.95	- 3 52.3	1.282	2.289	2.5	19.3
9 8	22 14.92	-16 1.3	1.248	2.233	7.3	20.6	9 8	22 14.08	- 4 29.7	1.318	2.311	5.7	19.6
9 18	22 6.94	-16 47.9	1.271	2.210	12.3	20.8	9 18	22 5.88	- 5 5.7	1.379	2.332	10.2	19.9
9 28	22 1.28	-17 15.2	1.315	2.187	16.7	21.0	9 28	22 0.23	- 5 34.8	1.463	2.353	14.3	20.2
518216	2016 <i>QR</i> ₈₉		8 27.6 295°39	8°0/20.6 18			289815	2005 <i>JL</i> ₁₈₂		8 27.6 186°38	0°3/27.9 17		
7 20	22 53.24	-27 42.8	1.707	2.567	14.8	21.6	7 20	22 53.21	- 6 17.3	1.848	2.668	15.6	22.1
7 30	22 49.24	-28 58.3	1.640	2.560	12.0	21.4	7 30	22 48.74	- 6 42.6	1.765	2.668	12.3	21.9
8 9	22 42.56	-30 11.9	1.595	2.553	9.5	21.3	8 9	22 42.00	- 7 21.9	1.703	2.667	8.4	21.7
8 19	22 33.80	-31 14.5	1.573	2.545	8.1	21.2	8 19	22 33.50	- 8 11.8	1.665	2.666	4.1	21.4
8 29	22 23.99	-31 57.0	1.576	2.538	8.8	21.2	8 29	22 24.07	- 9 7.1	1.655	2.665	0.6	21.1
9 8	22 14.39	-32 13.6	1.603	2.531	11.2	21.3	9 8	22 14.74	-10 1.5	1.672	2.662	5.1	21.5
9 18	22 6.23	-32 2.7	1.653	2.524	14.1	21.5	9 18	22 6.53	-10 49.2	1.716	2.659	9.3	21.7
9 28	22 0.45	-31 26.2	1.723	2.517	16.9	21.7	9 28	22 0.28	-11 25.9	1.785	2.655	13.1	21.9
514524	2016 <i>WO</i> ₅₂		8 27.6 194°18	3°7/31.5 18			96972	1999 <i>TE</i> ₁₉₃		8 27.6 122°66	6°9/4.7 18		
7 20	22 48.71	+ 3 15.8	2.438	3.207	13.7	21.4	7 20	22 47.86	+14 0.1	2.485	3.187	15.0	19.6
7 30	22 44.67	+ 3 27.4	2.346	3.206	11.3	21.2	7 30	22 44.04	+14 34.3	2.397	3.192	13.1	19.5
8 9	22 38.96	+ 3 24.4	2.274	3.204	8.6	21.0	8 9	22 38.55	+14 49.5	2.327	3.197	11.0	19.3
8 19	22 31.97	+ 3 7.1	2.227	3.203	5.8	20.8	8 19	22 31.79	+14 44.3	2.279	3.202	8.8	19.2
8 29	22 24.29	+ 2 37.1	2.207	3.201	3.8	20.7	8 29	22 24.36	+14 18.4	2.256	3.206	7.3	19.1
9 8	22 16.67	+ 1 57.8	2.214	3.199	4.6	20.7	9 8	22 16.99	+13 34.4	2.258	3.211	7.0	19.1
9 18	22 9.80	+ 1 13.4	2.250	3.197	7.2	20.9	9 18	22 10.39	+12 36.4	2.287	3.215	8.2	19.2
9 28	22 4.34	+ 0 28.6	2.311	3.195	10.0	21.1	9 28	22 5.18	+11 30.4	2.342	3.219	10.1	19.3
462117	2007 <i>RD</i> ₅₃		8 27.6 88°27	4°3/30.9 17			118437	1999 <i>TB</i> ₂₈₅		8 27.6 243°00	6°4/19.9 18		
7 20	22 52.50	+ 2 35.7	1.397	2.205	20.2	21.0	7 20	22 52.03	-29 51.3	2.587	3.427	11.0	20.3
7 30	22 48.64	+ 2 39.4	1.334	2.220	16.6	20.7	7 30	22 47.40	-30 54.6	2.511	3.416	9.0	20.2
8 9	22 42.12	+ 2 19.0	1.289	2.236	12.3	20.5	8 9	22 40.88	-31 54.7	2.458	3.404	7.2	20.0
8 19	22 33.56	+ 1 35.3	1.265	2.251	7.7	20.3	8 19	22 32.91	-32 45.7	2.432	3.392	6.4	20.0
8 29	22 24.05	+ 0 33.0	1.265	2.266	4.5	20.2	8 29	22 24.19	-33 21.9	2.432	3.380	7.0	20.0
9 8	22 14.86	+ 0 40.3	1.290	2.281	6.1	20.3	9 8	22 15.59	-33 39.4	2.459	3.367	8.7	20.1
9 18	22 7.19	+ 1 55.4	1.340	2.295	10.2	20.6	9 18	22 7.90	-33 36.8	2.511	3.355	10.8	20.2
9 28	22 1.95	+ 3 4.0	1.413	2.309	14.2	20.9	9 28	22 1.83	-33 14.8	2.585	3.342	12.8	20.3
12136	Martinryle		8 27.6 15°95	0°5/27.8 18			18719	1998 <i>HH</i> ₁₃₈		8 27.6 97°42	5°4/22.0 18		
7 20	22 55.90	-10 37.4	1.372	2.220	18.5	16.6	7 20	22 50.66	-23 43.9	2.139	2.991	12.6	18.4
7 30	22 51.41	- 9 59.4	1.306	2.224	14.6	16.3	7 30	22 46.50	-24 47.6	2.076	2.996	9.9	18.2
8 9	22 44.04	- 9 29.9	1.258	2.230	10.0	16.1	8 9	22 40.32	-25 51.6	2.036	3.000	7.3	18.1
8 19	22 34.48	- 9 6.8	1.233	2.236	4.8	15.8	8 19	22 32.64	-26 49.2	2.022	3.005	5.6	18.0
8 29	22 23.90	- 8 47.0	1.233	2.243	0.8	15.5	8 29	22 24.26	-27 34.0	2.034	3.010	6.0	18.0
9 8	22 13.71	- 8 27.2	1.259	2.251	6.0	15.9	9 8	22 16.10	-28 1.5	2.073	3.014	8.2	18.2
9 18	22 5.17	- 8 4.8	1.309	2.260	10.8	16.2	9 18	22 9.02	-28 9.6	2.137	3.019	10.9	18.3
9 28	21 59.26	- 7 37.6	1.381	2.269	15.1	16.5	9 28	22 3.73	-27 58.5	2.223	3.024	13.3	18.5
178378	1997 <i>GB</i> ₂₅		8 27.6 33°52	1°2/28.4 17			212360	2006 <i>FD</i> ₆		8 27.6 57°45	2°4/25.7 17		
7 20	22 48.19	- 4 34.4	1.176	2.031	20.5	19.8	7 20	22 49.18	- 8 59.4	1.182	2.047	19.7	19.1
7 30	22 45.68	- 4 51.0	1.122	2.044	16.2	19.6	7 30	22 46.48	-10 20.0	1.132	2.063	15.2	18.9
8 9	22 40.30	- 5 28.4	1.085	2.057	11.2	19.3	8 9	22 40.86	-11 59.6	1.100	2.079	10.0	18.6
8 19	22 32.74	- 6 22.7	1.069	2.071	5.6	19.1	8 19	22 33.03	-13 48.8	1.090	2.095	4.6	18.4
8 29	22 24.19	- 7 26.1	1.077	2.086	1.2	18.8	8 29	22 24.20	-15 35.4	1.105	2.111	3.1	18.3
9 8	22 16.06	- 8 29.4	1.107	2.102	6.1	19.2	9 8	22 15.81	-17 7.2	1.144	2.128	7.9	18.7
9 18	22 9.59	- 9 24.2	1.162	2.118	11.3	19.6	9 18	22 9.14	-18 16.3	1.206	2.145	12.8	19.0
9 28	22 5.72	-10 4.4	1.237	2.135	15.7	19.9	9 28	22 5.12	-18 59.1	1.289	2.162	16.9	19.3
319354	2006 <i>CZ</i> ₅₁		8 27.6 322°										

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
289220	2004 <i>XX</i> ₄₀		8 27.6 303°23	1°3/26.6	18		71613	2000 <i>ET</i> ₁₂		8 27.6 189°25	4°4/22.5	18	
7 20	22 49.95	-11 1.3	1.605	2.454	16.2	20.3	7 20	22 49.31	-22 42.5	2.548	3.393	11.0	19.7
7 30	22 46.75	-11 22.2	1.514	2.435	12.7	20.0	7 30	22 45.14	-23 34.9	2.476	3.393	8.6	19.5
8 9	22 41.02	-11 54.9	1.442	2.417	8.6	19.7	8 9	22 39.27	-24 28.0	2.428	3.392	6.2	19.4
8 19	22 33.19	-12 35.1	1.394	2.398	4.0	19.4	8 19	22 32.13	-25 16.7	2.405	3.392	4.6	19.3
8 29	22 24.16	-13 16.8	1.372	2.380	1.8	19.2	8 29	22 24.37	-25 55.9	2.411	3.391	4.9	19.3
9 8	22 15.08	-13 53.3	1.375	2.363	6.4	19.4	9 8	22 16.75	-26 21.6	2.444	3.390	6.9	19.4
9 18	22 7.16	-14 19.0	1.403	2.345	11.1	19.7	9 18	22 9.99	-26 31.8	2.503	3.389	9.3	19.6
9 28	22 1.43	-14 30.2	1.453	2.328	15.3	19.9	9 28	22 4.71	-26 26.0	2.586	3.388	11.6	19.7
98083	2000 <i>RG</i> ₆₈		8 27.6 62°59	2°6/26.1	18		132517	2002 <i>JD</i> ₄₉		8 27.6 44°56	2°2/26.1	17	
7 20	22 55.76	-13 51.7	1.277	2.137	18.9	18.7	7 20	22 52.57	-13 34.1	1.492	2.346	16.9	19.5
7 30	22 51.53	-14 13.4	1.217	2.145	14.7	18.5	7 30	22 48.52	-13 56.6	1.436	2.360	13.1	19.3
8 9	22 44.25	-14 44.7	1.176	2.153	9.8	18.3	8 9	22 41.92	-14 27.4	1.400	2.375	8.7	19.1
8 19	22 34.64	-15 19.5	1.158	2.161	4.8	18.0	8 19	22 33.45	-15 1.2	1.387	2.390	4.2	18.9
8 29	22 23.95	-15 49.8	1.163	2.170	3.1	17.9	8 29	22 24.17	-15 31.4	1.400	2.406	2.7	18.8
9 8	22 13.70	-16 8.8	1.194	2.178	7.6	18.2	9 8	22 15.32	-15 52.2	1.438	2.422	6.7	19.1
9 18	22 5.26	-16 12.6	1.248	2.187	12.4	18.5	9 18	22 7.98	-16 0.1	1.501	2.438	10.9	19.4
9 28	21 59.62	-15 59.8	1.323	2.196	16.6	18.8	9 28	22 2.98	-15 53.6	1.586	2.455	14.5	19.7
360928	2005 <i>TH</i> ₆₆		8 27.6 262°84	4°3/1.4	18		141908	2002 <i>PC</i> ₇₇		8 27.6 32°26	2°6/26.1	18	
7 20	22 46.18	+ 6 1.0	2.273	3.037	14.7	21.6	7 20	22 54.54	-14 26.0	1.223	2.089	19.1	19.5
7 30	22 42.90	+ 6 0.8	2.179	3.033	12.3	21.4	7 30	22 50.68	-14 37.9	1.166	2.097	14.9	19.3
8 9	22 37.89	+ 5 42.4	2.105	3.029	9.5	21.2	8 9	22 43.72	-14 58.5	1.127	2.105	10.0	19.0
8 19	22 31.53	+ 5 5.9	2.054	3.024	6.6	21.1	8 19	22 34.40	-15 21.8	1.109	2.113	4.9	18.8
8 29	22 24.44	+ 4 13.4	2.029	3.020	4.5	20.9	8 29	22 24.02	-15 40.4	1.116	2.122	3.1	18.7
9 8	22 17.39	+ 3 9.1	2.031	3.015	5.0	21.0	9 8	22 14.12	-15 48.1	1.146	2.132	7.7	19.0
9 18	22 11.11	+ 1 58.4	2.061	3.011	7.6	21.1	9 18	22 6.06	-15 41.4	1.200	2.142	12.5	19.3
9 28	22 6.28	+ 0 47.5	2.116	3.006	10.5	21.3	9 28	22 0.84	-15 19.5	1.275	2.153	16.7	19.6
296206	2009 <i>CE</i> ₁		8 27.6 269°82	1°5/28.8	18		126395	2002 <i>BG</i> ₄		8 27.6 107°80	7°9/19.8	18	
7 20	22 50.28	- 4 28.0	1.919	2.735	15.2	20.1	7 20	22 55.05	-28 50.6	1.927	2.777	13.8	19.3
7 30	22 46.37	- 4 29.4	1.835	2.733	12.1	19.9	7 30	22 50.15	-30 28.6	1.884	2.796	11.2	19.2
8 9	22 40.37	- 4 44.2	1.771	2.731	8.5	19.7	8 9	22 42.87	-32 2.2	1.865	2.814	8.9	19.1
8 19	22 32.74	- 5 10.3	1.731	2.728	4.5	19.5	8 19	22 33.87	-33 22.5	1.870	2.831	7.9	19.1
8 29	22 24.25	- 5 44.3	1.717	2.726	1.5	19.2	8 29	22 24.12	-34 21.4	1.901	2.849	8.6	19.2
9 8	22 15.86	- 6 21.1	1.731	2.723	4.6	19.5	9 8	22 14.76	-34 54.5	1.958	2.865	10.6	19.3
9 18	22 8.48	- 6 56.0	1.772	2.721	8.6	19.7	9 18	22 6.80	-35 0.9	2.038	2.882	12.9	19.5
9 28	22 2.92	- 7 24.4	1.837	2.718	12.2	19.9	9 28	22 1.02	-34 43.0	2.138	2.897	15.1	19.7
142179	2002 <i>RL</i> ₄₃		8 27.6 265°90	2°2/25.8	18		198349	2004 <i>VD</i> ₅		8 27.6 67°59	9°3/20.3	17	
7 20	22 51.70	-12 5.2	1.658	2.504	15.9	20.0	7 20	22 57.74	-32 7.0	1.683	2.535	15.4	19.6
7 30	22 48.08	-12 48.0	1.567	2.487	12.4	19.7	7 30	22 52.68	-33 17.3	1.632	2.541	12.8	19.4
8 9	22 41.90	-13 43.2	1.496	2.470	8.4	19.4	8 9	22 44.79	-34 20.2	1.603	2.547	10.5	19.3
8 19	22 33.61	-14 45.4	1.449	2.452	4.1	19.1	8 19	22 34.83	-35 6.0	1.596	2.553	9.3	19.3
8 29	22 24.09	-15 47.3	1.428	2.434	2.7	19.0	8 29	22 23.97	-35 26.8	1.614	2.559	10.0	19.3
9 8	22 14.52	-16 41.1	1.434	2.416	6.9	19.2	9 8	22 13.62	-35 18.6	1.655	2.565	12.0	19.5
9 18	22 6.09	-17 20.5	1.465	2.397	11.5	19.4	9 18	22 4.99	-34 42.1	1.719	2.572	14.5	19.6
9 28	21 59.84	-17 42.0	1.518	2.379	15.5	19.6	9 28	21 58.96	-33 41.1	1.802	2.578	16.9	19.8
40158	1998 <i>QP</i> ₈₈		8 27.6 357°08	5°2/1.6	18		468012	2013 <i>BP</i> ₁₆		8 27.6 238°38	0°2/28.1	17	
7 20	22 42.92	+ 5 53.0	1.734	2.526	17.5	18.3	7 20	22 40.75	- 6 57.4	4.613	5.415	7.2	22.1
7 30	22 40.89	+ 6 1.1	1.651	2.522	14.7	18.1	7 30	22 37.75	- 7 15.8	4.519	5.412	5.6	22.0
8 9	22 36.80	+ 5 46.7	1.587	2.519	11.4	17.9	8 9	22 33.93	- 7 39.3	4.448	5.409	3.8	21.9
8 19	22 31.09	+ 5 9.4	1.543	2.518	8.0	17.7	8 19	22 29.53	- 8 6.7	4.406	5.405	1.9	21.7
8 29	22 24.52	+ 4 11.6	1.524	2.516	5.4	17.6	8 29	22 24.83	- 8 36.1	4.392	5.402	0.3	21.5
9 8	22 18.02	+ 2 58.9	1.529	2.516	5.9	17.6	9 8	22 20.16	- 9 5.5	4.409	5.399	2.2	21.7
9 18	22 12.51	+ 1 38.7	1.560	2.517	8.9	17.8	9 18	22 15.84	- 9 33.1	4.455	5.395	4.2	21.9
9 28	22 8.80	+ 0 19.4	1.615	2.519	12.3	18.0	9 28	22 12.18	- 9 57.1	4.529	5.392	5.9	22.0
86038	1999 <i>NY</i> ₃₈		8 27.6 278°94	0°8/28.3	18		186296	2002 <i>CV</i> ₈₀		8 27.6 160°88	0°7/26.8	18	
7 20	22 50.94	- 6 58.0	2.186	3.002	13.6	18.2	7 20	22 48.99	-10 1.8	2.686	3.504	11.3	21.4
7 30	22 46.66	- 6 53.0	2.094	2.994	10.8	18.0	7 30	22 44.70	-10 30.7	2.605	3.509	8.7	21.2
8 9	22 40.45	- 6 57.5	2.023	2.985	7.5	17.7	8 9	22 38.88	-11 7.0	2.547	3.514	5.8	21.0
8 19	22 32.75	- 7 9.8	1.978	2.977	3.8	17.5	8 19	22 31.94	-11 47.7	2.515	3.518	2.7	20.8
8 29	22 24.26	- 7 26.8	1.960	2.969	0.8	17.3	8 29	22 24.44	-12 29.1	2.513	3.522	1.0	20.7
9 8	22 15.81	- 7 44.8	1.970	2.961	4.3	17.5	9 8	22 17.05	-13 7.2	2.540	3.525	4.0	20.9
9 18	22 8.25	- 8 0.4	2.007	2.952	8.0	17.7	9 18	22 10.41	-13 38.8	2.595	3.528	7.1	21.1
9 28	22 2.31	- 8 10.3	2.070	2.944	11.4	17.9	9 28	22 5.07	-14 1.4	2.677	3.531	9.8	21.3
76631	2000 <i>HX</i> ₄		8 27.6 70°79	3°7/24.2	18		103448	2000 <i>AL</i> ₁₉₂		8 27.6 151°90	1°9/29.9	18	
7 20	22 49.65	-16 42.9	1.879	2.731	14.0	19.3	7 20	22 48.75	- 0 10.2	2.390	3.177	13.4	20.5
7 30	22 45.88	-17 42.2	1.816	2.740	10.8	19.1	7 30	22 44.70	- 0 37.8	2.306	3.185	10.8	20.3
8 9	22 39.99	-18 47.6	1.775	2.749	7.3	18.9	8 9	22 38.99	- 1 20.2	2.244	3.192	7.7	20.1
8 19	22 32.52	-19 52.6	1.759	2.758	4.3	18.7	8 19	22 32.02	- 2 15.4	2.208	3.199	4.4	19.9
8 29	22 24.30	-20 50.1	1.770	2.767	4.2	18.7	8 29	22 24.43	- 3 19.6	2.199	3.205	2.0	19.8
9 8	22 16.33	-21 34.3	1.808	2.776	7.1	18.9	9 8	22 16.95	- 4 27.8	2.220	3.211	3.9	19.9
9 18	22 9.51	-22 1.4	1.871	2.785	10.5	19.2	9 18	22 10.28	- 5 34.7	2.269	3.216	7.1	20.1
9 28	22 4.59	-22 10.4	1.957	2.794	13.5	19.4	9 28	22 5.03	- 6 35.4	2.344	3.221	10.1	20.3
390544	2000 <i>CM</i> ₁₀₃		8 27.6 203°99	0°7/26.7	18		80695	2000 <i>CP</i>		8 27.6 261°31			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
330873	2009 RQ ₁		8 27.6 356°26	1.2°/28.4	17		486952	2014 MB ₆₀		8 27.6	4.73 14°0'	9.1 17	
7 20	22 41.68	- 5 27.8	1.002	1.881	21.4	19.7	7 20	22 51.61	+23 22.4	1.863	2.517	20.7	20.5
7 30	22 41.25	- 5 29.1	0.938	1.874	17.1	19.4	7 30	22 47.94	+25 36.9	1.786	2.517	19.1	20.3
8 9	22 37.77	- 5 52.5	0.890	1.868	11.9	19.1	8 9	22 41.80	+27 27.9	1.725	2.518	17.4	20.2
8 19	22 31.78	- 6 35.2	0.861	1.865	6.1	18.8	8 19	22 33.61	+28 48.4	1.681	2.521	15.8	20.1
8 29	22 24.46	- 7 30.1	0.853	1.863	1.3	18.5	8 29	22 24.19	+29 33.1	1.657	2.524	14.6	20.0
9 8	22 17.34	- 8 27.3	0.867	1.863	6.7	18.8	9 8	22 14.66	+29 40.8	1.653	2.528	14.1	20.0
9 18	22 11.89	- 9 17.1	0.901	1.865	12.5	19.2	9 18	22 6.17	+29 14.4	1.670	2.533	14.4	20.0
9 28	22 9.24	- 9 51.7	0.954	1.869	17.6	19.5	9 28	21 59.77	+28 20.9	1.706	2.539	15.4	20.1
332672	2009 BJ ₂₉		8 27.6 348°64	4.3°/23.8	18		311451	2005 UZ ₃₁₇		8 27.6	72°49	5.7°/22.1	18
7 20	22 44.86	-15 9.8	1.426	2.299	16.5	20.4	7 20	22 52.23	-25 22.2	2.154	3.003	12.6	20.6
7 30	22 42.96	-16 25.2	1.356	2.293	12.8	20.1	7 30	22 47.72	-26 14.7	2.091	3.007	10.0	20.4
8 9	22 38.50	-17 52.3	1.307	2.287	8.6	19.9	8 9	22 41.15	-27 5.7	2.051	3.011	7.5	20.3
8 19	22 32.01	-19 22.8	1.281	2.282	5.0	19.6	8 19	22 33.08	-27 49.1	2.035	3.016	5.8	20.2
8 29	22 24.43	-20 46.4	1.279	2.278	5.1	19.6	8 29	22 24.31	-28 18.8	2.047	3.020	6.3	20.2
9 8	22 17.01	-21 53.7	1.302	2.275	8.8	19.9	9 8	22 15.80	-28 30.9	2.085	3.024	8.3	20.4
9 18	22 10.90	-22 38.2	1.348	2.272	12.9	20.1	9 18	22 8.41	-28 23.9	2.148	3.028	10.9	20.5
9 28	22 7.07	-22 57.6	1.414	2.271	16.7	20.3	9 28	22 2.87	-27 58.6	2.233	3.032	13.3	20.7
181844	1998 TG ₂₉		8 27.6 81°02	4.2°/24.7	17		173187	1998 HU ₅₃		8 27.6	70°38	0.6°/26.9	18
7 20	22 55.45	-18 0.8	1.519	2.376	16.6	20.1	7 20	22 50.93	- 8 40.8	2.064	2.889	14.0	20.6
7 30	22 50.87	-18 41.0	1.460	2.385	12.9	19.9	7 30	22 46.43	- 9 20.5	2.013	2.920	10.8	20.4
8 9	22 43.59	-19 26.2	1.421	2.394	8.8	19.7	8 9	22 40.10	-10 10.1	1.984	2.952	7.1	20.3
8 19	22 34.29	-20 9.1	1.405	2.404	5.1	19.5	8 19	22 32.51	-11 5.3	1.980	2.983	3.3	20.1
8 29	22 24.09	-20 42.3	1.415	2.413	4.8	19.5	8 29	22 24.42	-12 0.7	2.005	3.014	1.0	20.0
9 8	22 14.30	-20 59.7	1.451	2.422	8.1	19.7	9 8	22 16.68	-12 51.0	2.058	3.045	4.7	20.3
9 18	22 6.08	-20 58.8	1.511	2.432	12.0	20.0	9 18	22 10.03	-13 32.1	2.138	3.075	8.1	20.6
9 28	22 0.33	-20 39.5	1.592	2.441	15.5	20.2	9 28	22 5.07	-14 1.4	2.243	3.105	11.1	20.8
479281	2013 GR ₂₂		8 27.6 114°47	10.1°/14.1	18		113210	2002 RF ₁₁₇		8 27.6	9°45	7°9'	2.9 18
7 20	23 0.69	-47 40.4	2.768	3.556	11.8	21.2	7 20	22 43.92	+ 8 24.2	1.181	1.992	23.0	18.9
7 30	22 54.22	-48 59.6	2.744	3.573	10.7	21.1	7 30	22 42.58	+ 8 58.4	1.114	1.993	19.6	18.6
8 9	22 45.44	-50 4.1	2.742	3.590	10.2	21.1	8 9	22 38.45	+ 9 1.1	1.063	1.995	15.7	18.4
8 19	22 35.03	-50 47.6	2.762	3.606	10.2	21.1	8 19	22 32.06	+ 8 29.4	1.029	1.999	11.6	18.2
8 29	22 23.99	-51 5.6	2.806	3.622	10.7	21.2	8 29	22 24.48	+ 7 24.9	1.016	2.004	8.4	18.0
9 8	22 13.44	-50 56.6	2.871	3.638	11.6	21.3	9 8	22 17.07	+ 5 55.4	1.024	2.009	8.4	18.0
9 18	22 4.37	-50 22.3	2.956	3.653	12.6	21.4	9 18	22 11.14	+ 4 12.4	1.055	2.016	11.5	18.2
9 28	21 57.50	-49 26.2	3.059	3.668	13.6	21.5	9 28	22 7.75	+ 2 29.0	1.107	2.024	15.5	18.5
95108	2002 AL ₁₁₈		8 27.6 255°65	3.7°/23.8	18		198552	2004 XP ₁₃₄		8 27.6	240°50	3.1°/25.0	18
7 20	22 48.43	-14 25.5	1.823	2.675	14.4	19.9	7 20	22 52.51	-15 59.5	1.900	2.745	14.2	20.6
7 30	22 45.62	-15 50.9	1.739	2.664	11.2	19.6	7 30	22 48.25	-16 37.2	1.819	2.739	11.1	20.4
8 9	22 39.95	-17 28.0	1.678	2.653	7.6	19.4	8 9	22 41.73	-17 21.3	1.760	2.733	7.5	20.2
8 19	22 32.66	-19 9.7	1.641	2.641	4.3	19.2	8 19	22 33.46	-18 6.4	1.726	2.726	4.0	19.9
8 29	22 24.34	-20 46.9	1.632	2.630	4.4	19.2	8 29	22 24.26	-18 46.3	1.718	2.719	3.5	19.9
9 8	22 16.02	-22 10.7	1.650	2.618	7.8	19.3	9 8	22 15.19	-19 15.4	1.738	2.712	6.8	20.1
9 18	22 8.73	-23 14.9	1.694	2.606	11.5	19.5	9 18	22 7.23	-19 30.0	1.784	2.705	10.4	20.3
9 28	22 3.37	-23 56.3	1.760	2.594	14.9	19.7	9 28	22 1.23	-19 28.5	1.852	2.698	13.8	20.5
399924	2005 YO ₇₇		8 27.6 198°46	2.7°/30.6	18		91612	1999 TJ ₃₀		8 27.6	13°19	3.6°/31.2	18
7 20	22 48.86	+ 0 26.9	2.630	3.408	12.5	21.5	7 20	22 44.76	+ 2 43.7	1.838	2.638	16.4	19.7
7 30	22 44.68	+ 0 35.3	2.536	3.406	10.2	21.3	7 30	22 42.16	+ 2 35.9	1.760	2.641	13.4	19.5
8 9	22 38.94	+ 0 31.6	2.465	3.404	7.6	21.2	8 9	22 37.58	+ 2 8.2	1.700	2.644	10.0	19.3
8 19	22 32.01	+ 0 16.5	2.418	3.402	4.7	21.0	8 19	22 31.47	+ 1 21.6	1.663	2.648	6.4	19.1
8 29	22 24.46	- 0 8.2	2.399	3.399	2.8	20.8	8 29	22 24.59	+ 0 19.6	1.651	2.652	3.7	19.0
9 8	22 16.95	- 0 39.4	2.408	3.396	3.9	20.9	9 8	22 17.82	- 0 51.7	1.666	2.657	4.9	19.0
9 18	22 10.15	- 1 13.4	2.446	3.393	6.7	21.1	9 18	22 12.04	- 2 5.3	1.707	2.662	8.3	19.3
9 28	22 4.65	- 1 46.6	2.511	3.390	9.4	21.3	9 28	22 7.98	- 3 14.5	1.772	2.668	11.8	19.5
433765	2015 BP ₂₆		8 27.6 230°29	0.4°/27.3	17		342443	2008 UE ₉₈		8 27.6	286°60	9.6°/18.3	18
7 20	22 50.04	- 6 39.3	1.667	2.501	16.4	21.8	7 20	22 53.29	-31 36.7	1.731	2.589	14.8	20.3
7 30	22 46.62	- 7 26.2	1.583	2.495	12.9	21.5	7 30	22 49.51	-33 13.0	1.664	2.576	12.4	20.1
8 9	22 40.81	- 8 30.2	1.519	2.488	8.8	21.3	8 9	22 42.94	-34 45.4	1.618	2.563	10.4	20.0
8 19	22 33.08	- 9 46.8	1.479	2.482	4.1	21.0	8 19	22 34.15	-36 3.3	1.596	2.549	9.7	19.9
8 29	22 24.28	-11 8.9	1.465	2.474	1.0	20.7	8 29	22 24.15	-36 57.0	1.598	2.536	10.6	19.9
9 8	22 15.52	-12 28.1	1.478	2.467	5.8	21.1	9 8	22 14.31	-37 20.1	1.622	2.523	12.8	20.0
9 18	22 7.90	-13 36.8	1.517	2.459	10.4	21.3	9 18	22 5.89	-37 11.2	1.669	2.509	15.5	20.2
9 28	22 2.35	-14 29.6	1.579	2.451	14.4	21.6	9 28	21 59.95	-36 32.7	1.734	2.496	18.0	20.3
423917	2006 SS ₃₃₉		8 27.6 196°15	4.6°/24.1	17		289159	2004 VZ ₂₆		8 27.6	292°99	12.4°/11.0	18
7 20	22 55.10	-18 41.8	1.641	2.494	15.7	21.2	7 20	23 0.72	-49 26.8	2.307	3.100	13.7	20.3
7 30	22 50.60	-19 33.0	1.570	2.493	12.2	21.0	7 30	22 55.21	-50 55.0	2.256	3.083	12.8	20.2
8 9	22 43.47	-20 29.4	1.520	2.492	8.5	20.8	8 9	22 46.70	-52 7.4	2.224	3.067	12.4	20.1
8 19	22 34.30	-21 23.9	1.493	2.490	5.2	20.6	8 19	22 35.86	-52 55.3	2.214	3.051	12.6	20.1
8 29	22 24.10	-22 8.2	1.494	2.488	5.2	20.6	8 29	22 23.90	-53 11.9	2.225	3.035	13.3	20.1
9 8	22 14.12	-22 35.9	1.520	2.486	8.4	20.8	9 8	22 12.31	-52 54.4	2.255	3.019	14.5	20.2
9 18	22 5.54	-22 43.7	1.570	2.483	12.2	21.0	9 18	22 2.44	-52 4.3	2.304	3.002	15.8	20.3
9 28	21 59.32	-22 31.3	1.643	2.481	15.6	21.2	9 28	21 55.32	-50 45.8	2.369	2.987	17.1	20.4
385457	2003 ST ₂₈₅		8 27.6 126°11	0.9°/26.9	16		4811	Semashko		8 27.6	32°02	3.3°/25.9	18
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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
201709	2003 <i>UC</i> ₁₆₄		8 27.6 271°91	1°9/25.8	18		187297	2005 <i>TE</i> ₁₄₂		8 27.7 190°55	5°0/22.5	18	
7 20	22 48.92	-11 42.0	1.867	2.711	14.5	20.1	7 20	22 51.89	-23 55.9	2.331	3.176	11.9	20.7
7 30	22 45.50	-12 29.1	1.784	2.703	11.3	19.9	7 30	22 47.36	-24 46.8	2.260	3.175	9.4	20.5
8 9	22 39.92	-13 27.3	1.722	2.695	7.5	19.7	8 9	22 40.90	-25 37.6	2.212	3.175	6.9	20.3
8 19	22 32.63	-14 31.4	1.684	2.688	3.6	19.4	8 19	22 33.01	-26 22.5	2.190	3.174	5.2	20.2
8 29	22 24.43	-15 34.9	1.674	2.680	2.4	19.3	8 29	22 24.43	-26 56.0	2.196	3.173	5.5	20.3
9 8	22 16.29	-16 31.0	1.690	2.672	6.1	19.6	9 8	22 16.03	-27 13.9	2.228	3.172	7.6	20.4
9 18	22 9.17	-17 14.3	1.733	2.664	10.1	19.8	9 18	22 8.62	-27 14.5	2.287	3.171	10.2	20.6
9 28	22 3.91	-17 41.5	1.799	2.657	13.6	20.0	9 28	22 2.90	-26 57.9	2.368	3.169	12.6	20.7
18154	2000 <i>PA</i>		8 27.6 343°33	1°7/26.1	18		115879	2003 <i>UV</i> ₂₈₂		8 27.7 203°97	7°1/19.3	18	
7 20	22 47.53	-11 33.4	1.819	2.666	14.6	18.7	7 20	22 53.00	-29 27.0	2.332	3.175	12.0	20.6
7 30	22 44.42	-12 10.2	1.741	2.662	11.4	18.4	7 30	22 48.42	-30 53.3	2.264	3.171	9.8	20.4
8 9	22 39.17	-12 57.4	1.684	2.658	7.6	18.2	8 9	22 41.75	-32 17.0	2.221	3.167	7.9	20.3
8 19	22 32.26	-13 50.3	1.651	2.655	3.6	18.0	8 19	22 33.47	-33 30.7	2.203	3.161	7.1	20.2
8 29	22 24.49	-14 42.8	1.644	2.651	2.1	17.8	8 29	22 24.35	-34 27.4	2.212	3.156	7.8	20.3
9 8	22 16.85	-15 28.6	1.664	2.649	5.9	18.1	9 8	22 15.36	-35 2.3	2.247	3.150	9.7	20.4
9 18	22 10.25	-16 2.9	1.710	2.646	9.9	18.3	9 18	22 7.39	-35 13.7	2.306	3.143	11.9	20.5
9 28	22 5.52	-16 22.4	1.779	2.644	13.4	18.5	9 28	22 1.23	-35 2.5	2.387	3.136	14.0	20.7
62421	2000 <i>SJ</i> ₁₈₄		8 27.6 160°02	5°2/22.7	18		171646	2000 <i>FL</i> ₁₄		8 27.7 285°17	1°6/26.3	18	
7 20	22 52.93	-24 5.7	2.221	3.066	12.4	19.7	7 20	22 50.23	-12 1.7	1.911	2.751	14.3	20.6
7 30	22 48.22	-24 52.9	2.152	3.068	9.8	19.5	7 30	22 46.47	-12 29.2	1.825	2.742	11.2	20.4
8 9	22 41.49	-25 39.7	2.106	3.069	7.2	19.4	8 9	22 40.55	-13 6.0	1.762	2.734	7.5	20.2
8 19	22 33.27	-26 20.1	2.086	3.070	5.3	19.3	8 19	22 32.95	-13 47.7	1.722	2.726	3.5	19.9
8 29	22 24.35	-26 48.3	2.093	3.072	5.7	19.3	8 29	22 24.43	-14 28.8	1.710	2.717	2.0	19.8
9 8	22 15.64	-27 0.5	2.127	3.073	7.8	19.4	9 8	22 16.00	-15 3.9	1.725	2.709	5.7	20.0
9 18	22 8.02	-26 54.9	2.187	3.074	10.5	19.6	9 18	22 8.59	-15 28.5	1.766	2.701	9.7	20.2
9 28	22 2.18	-26 32.0	2.269	3.074	13.0	19.8	9 28	22 3.03	-15 39.8	1.830	2.693	13.2	20.4
78791	2002 <i>VO</i> ₁₂₃		8 27.6 301°63	3°7/30.3	18		147918	Chiayi		8 27.7 252°76	1°0/26.9	18	
7 20	22 51.45	-0 42.0	1.859	2.660	16.2	19.1	7 20	22 54.18	-10 29.8	1.793	2.625	15.4	21.4
7 30	22 47.53	-0 8.7	1.763	2.647	13.3	18.9	7 30	22 49.85	-10 51.2	1.697	2.609	12.2	21.2
8 9	22 41.36	+0 10.7	1.687	2.634	9.9	18.7	8 9	22 43.05	-11 23.7	1.622	2.591	8.3	20.9
8 19	22 33.36	+0 15.9	1.635	2.621	6.2	18.4	8 19	22 34.23	-12 3.4	1.571	2.574	3.9	20.6
8 29	22 24.31	+0 8.2	1.607	2.609	3.7	18.3	8 29	22 24.23	-12 44.8	1.547	2.555	1.5	20.4
9 8	22 15.23	-0 9.3	1.607	2.596	5.4	18.3	9 8	22 14.16	-13 21.7	1.550	2.536	5.9	20.6
9 18	22 7.13	-0 32.0	1.633	2.584	9.1	18.5	9 18	22 5.17	-13 49.0	1.579	2.517	10.4	20.9
9 28	22 0.91	-0 55.1	1.683	2.572	12.8	18.7	9 28	21 58.25	-14 3.3	1.632	2.497	14.4	21.1
303152	2004 <i>EQ</i> ₅		8 27.6 160°83	1°1/28.9	18		45829	2000 <i>QR</i> ₁₆₆		8 27.7 37°49	2°2/29.1	18	
7 20	22 46.75	-1 37.6	2.219	3.022	13.8	20.6	7 20	22 54.41	-5 17.7	1.583	2.407	17.5	18.4
7 30	22 43.36	-2 26.9	2.134	3.024	11.0	20.4	7 30	22 49.76	-4 42.9	1.524	2.426	13.9	18.2
8 9	22 38.22	-3 32.6	2.071	3.027	7.7	20.2	8 9	22 42.70	-4 21.0	1.485	2.446	9.8	18.0
8 19	22 31.76	-4 51.7	2.032	3.029	4.1	20.0	8 19	22 33.88	-4 10.8	1.469	2.466	5.3	17.8
8 29	22 24.59	-6 18.9	2.022	3.031	1.1	19.8	8 29	22 24.33	-4 9.6	1.479	2.486	2.2	17.7
9 8	22 17.51	-7 47.8	2.041	3.033	4.1	20.0	9 8	22 15.19	-4 13.5	1.515	2.507	5.2	17.9
9 18	22 11.25	-9 12.1	2.088	3.034	7.7	20.3	9 18	22 7.48	-4 18.5	1.577	2.529	9.3	18.2
9 28	22 6.48	-10 26.2	2.161	3.036	10.9	20.5	9 28	22 1.99	-4 20.8	1.663	2.551	12.9	18.5
358408	2007 <i>BU</i> ₇₉		8 27.6 51°10	0°9/28.4	18		362411	2010 <i>PO</i> ₂₆		8 27.7 285°40	2°6/30.2	18	
7 20	22 52.07	-7 5.5	2.051	2.869	14.3	20.2	7 20	22 47.40	-0 5.4	2.086	2.884	14.7	21.3
7 30	22 47.51	-6 54.3	1.978	2.878	11.3	20.0	7 30	22 44.08	-0 10.8	1.992	2.876	12.0	21.1
8 9	22 40.99	-6 52.8	1.926	2.888	7.8	19.8	8 9	22 38.85	-0 32.1	1.918	2.867	8.8	20.9
8 19	22 33.04	-6 59.0	1.899	2.898	3.9	19.6	8 19	22 32.13	-1 8.1	1.869	2.858	5.3	20.7
8 29	22 24.41	-7 9.9	1.899	2.908	0.9	19.4	8 29	22 24.59	-1 56.0	1.845	2.850	2.7	20.5
9 8	22 15.99	-7 21.9	1.927	2.919	4.4	19.6	9 8	22 17.05	-2 50.7	1.850	2.841	4.5	20.6
9 18	22 8.62	-7 31.7	1.983	2.929	8.0	19.9	9 18	22 10.36	-3 47.0	1.881	2.833	8.0	20.8
9 28	22 3.00	-7 36.4	2.063	2.940	11.3	20.1	9 28	22 5.26	-4 39.1	1.937	2.824	11.4	21.0
347992	2003 <i>SB</i> ₁₄₈		8 27.7 5°19	7°6/23.7	17		160905	2001 <i>TL</i> ₂₀₆		8 27.7 133°36	0°9/28.4	17	
7 20	22 47.94	-21 48.6	0.885	1.790	21.1	19.5	7 20	22 51.89	-4 42.2	1.848	2.665	15.7	20.6
7 30	22 46.68	-22 32.2	0.838	1.789	16.7	19.3	7 30	22 47.66	-5 5.9	1.774	2.674	12.4	20.4
8 9	22 41.64	-23 18.1	0.807	1.789	11.9	19.0	8 9	22 41.27	-5 44.4	1.721	2.682	8.6	20.2
8 19	22 33.66	-23 55.1	0.794	1.792	8.2	18.8	8 19	22 33.25	-6 34.5	1.692	2.691	4.3	20.0
8 29	22 24.32	-24 11.5	0.802	1.796	8.3	18.9	8 29	22 24.43	-7 31.1	1.689	2.699	0.9	19.7
9 8	22 15.57	-24 0.0	0.829	1.803	12.1	19.1	9 8	22 15.80	-8 28.0	1.715	2.706	4.8	20.0
9 18	22 9.09	-23 19.5	0.875	1.811	16.7	19.4	9 18	22 8.29	-9 19.5	1.767	2.714	8.9	20.3
9 28	22 5.99	-22 13.4	0.938	1.821	20.9	19.7	9 28	22 2.69	-10 0.9	1.844	2.720	12.5	20.5
124011	2001 <i>FK</i> ₉₄		8 27.7 5°83	5°3/22.2	18		15022	1998 <i>SM</i> ₁₄₄		8 27.7 257°28	1°2/28.6	18	
7 20	22 49.75	-23 44.9	2.198	3.049	12.3	19.6	7 20	22 51.06	-4 11.4	1.800	2.618	16.0	19.7
7 30	22 45.81	-24 41.8	2.130	3.050	9.7	19.4	7 30	22 47.38	-4 28.4	1.702	2.602	12.8	19.5
8 9	22 39.92	-25 38.9	2.085	3.050	7.1	19.2	8 9	22 41.37	-5 1.5	1.624	2.585	9.0	19.2
8 19	22 32.56	-26 30.2	2.066	3.050	5.4	19.1	8 19	22 33.44	-5 48.6	1.569	2.568	4.7	18.9
8 29	22 24.50	-27 9.5	2.074	3.051	5.8	19.2	8 29	22 24.38	-6 45.2	1.542	2.551	1.2	18.6
9 8	22 16.62	-27 32.5	2.108	3.051	8.0	19.3	9 8	22 15.24	-7 44.9	1.541	2.533	5.1	18.9
9 18	22 9.76	-27 37.0	2.167	3.052	10.6	19.5	9 18	22 7.08	-8 41.1	1.566	2.515	9.6	19.1
9 28	22 4.62	-27 23.1	2.248	3.053	13.1	19.6	9 28	22 0.87	-9 28.1	1.616	2.496	13.7	19.3
293241	2007 <i>BH</i> ₇₅		8 27.7 279°94	1°3/26.5	18		167759	2004 <i>XQ</i> ₁₀₉		8 27.7 296°14	5°2/24.1	18	
7 20	22 51.77	-13											

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
148074	1998 <i>WR</i> ₃₂		8 27.7 301°58	3°5/25.1	18		391899	2008 <i>UC</i> ₉₇		8 27.7 280°83	11°6/15.9	18	
7 20	22 50.08	-14 37.1	1.446	2.309	16.9	20.2	7 20	22 58.85	-38 42.4	1.833	2.670	14.9	20.9
7 30	22 47.24	-15 23.5	1.361	2.291	13.2	19.9	7 30	22 54.12	-40 18.3	1.762	2.648	13.2	20.7
8 9	22 41.61	-16 21.2	1.295	2.272	9.0	19.6	8 9	22 46.27	-41 45.0	1.713	2.626	11.9	20.6
8 19	22 33.66	-17 24.0	1.252	2.254	4.8	19.4	8 19	22 35.87	-42 51.5	1.686	2.603	11.7	20.5
8 29	22 24.35	-18 22.8	1.234	2.236	4.1	19.3	8 29	22 24.07	-43 27.9	1.681	2.580	12.7	20.5
9 8	22 15.00	-19 9.1	1.240	2.219	8.2	19.5	9 8	22 12.40	-43 28.7	1.699	2.557	14.5	20.6
9 18	22 6.96	-19 36.6	1.270	2.202	12.9	19.7	9 18	22 2.35	-42 53.7	1.737	2.534	16.8	20.7
9 28	22 1.37	-19 42.4	1.320	2.185	17.2	19.9	9 28	21 55.07	-41 46.8	1.793	2.511	19.0	20.8
286578	2002 <i>CH</i> ₂₂₁		8 27.7 94°55	2°5/25.8	18		276931	2004 <i>TN</i> ₁₆₁		8 27.7 340°07	1°6/28.9	18	
7 20	22 57.33	-15 47.5	1.836	2.674	14.9	20.4	7 20	22 47.83	- 4 7.3	1.487	2.324	17.8	20.0
7 30	22 51.77	-16 5.4	1.776	2.691	11.6	20.2	7 30	22 45.16	- 4 13.9	1.407	2.318	14.3	19.8
8 9	22 43.92	-16 28.0	1.737	2.707	7.7	20.0	8 9	22 39.99	- 4 38.3	1.347	2.312	10.0	19.5
8 19	22 34.44	-16 50.5	1.723	2.724	3.9	19.8	8 19	22 32.82	- 5 18.1	1.308	2.307	5.3	19.2
8 29	22 24.27	-17 7.6	1.736	2.740	2.9	19.8	8 29	22 24.55	- 6 8.5	1.294	2.302	1.6	19.0
9 8	22 14.51	-17 15.2	1.778	2.756	6.2	20.0	9 8	22 16.37	- 7 2.4	1.305	2.298	5.5	19.2
9 18	22 6.11	-17 11.0	1.846	2.772	9.9	20.3	9 18	22 9.42	- 7 52.6	1.340	2.295	10.2	19.5
9 28	21 59.84	-16 54.4	1.937	2.788	13.1	20.5	9 28	22 4.68	- 8 33.1	1.398	2.292	14.5	19.7
254501	2005 <i>EU</i> ₆₁		8 27.7 210°13	0°8/26.9	17		396078	2013 <i>CS</i> ₈₄		8 27.7 20°53	1°7/26.2	18	
7 20	22 52.22	- 8 12.5	1.701	2.534	16.1	21.3	7 20	22 48.70	-11 35.8	1.874	2.717	14.4	21.0
7 30	22 48.31	- 8 55.9	1.617	2.530	12.7	21.1	7 30	22 45.24	-12 13.7	1.800	2.719	11.2	20.8
8 9	22 41.97	- 9 54.1	1.555	2.525	8.5	20.9	8 9	22 39.69	-13 1.4	1.747	2.720	7.5	20.6
8 19	22 33.69	-11 2.7	1.516	2.519	4.0	20.6	8 19	22 32.55	-13 54.2	1.719	2.722	3.5	20.4
8 29	22 24.36	-12 14.7	1.504	2.513	1.3	20.4	8 29	22 24.61	-14 46.2	1.718	2.725	2.1	20.3
9 8	22 15.09	-13 22.2	1.519	2.507	5.9	20.7	9 8	22 16.82	-15 31.4	1.743	2.727	5.7	20.5
9 18	22 6.99	-14 18.7	1.561	2.500	10.4	20.9	9 18	22 10.11	-16 5.1	1.795	2.730	9.6	20.8
9 28	22 0.98	-14 59.4	1.625	2.492	14.3	21.1	9 28	22 5.22	-16 24.5	1.870	2.732	13.0	21.0
480155	2015 <i>FB</i> ₂₈₆		8 27.7 7°74	7°7/20.3	18		83320	2001 <i>RO</i> ₁₂₄		8 27.7 57°27	0°3/27.4	18	
7 20	22 42.98	-20 9.4	1.252	2.143	17.2	19.6	7 20	22 48.50	- 7 48.1	1.924	2.755	14.6	20.0
7 30	22 41.88	-22 20.8	1.200	2.144	13.4	19.3	7 30	22 44.99	- 8 19.5	1.850	2.760	11.4	19.8
8 9	22 37.98	-24 40.2	1.169	2.146	9.8	19.1	8 9	22 39.47	- 9 3.2	1.796	2.765	7.7	19.6
8 19	22 31.88	-26 54.1	1.160	2.150	7.8	19.0	8 19	22 32.43	- 9 55.4	1.767	2.770	3.6	19.4
8 29	22 24.66	-28 48.0	1.176	2.154	9.0	19.1	8 29	22 24.63	-10 50.7	1.765	2.775	0.8	19.2
9 8	22 17.70	-30 11.1	1.214	2.160	12.2	19.3	9 8	22 16.99	-11 43.1	1.791	2.780	4.9	19.5
9 18	22 12.26	-30 58.4	1.273	2.167	15.8	19.6	9 18	22 10.37	-12 27.6	1.842	2.785	8.8	19.7
9 28	22 9.34	-31 10.4	1.349	2.175	19.1	19.8	9 28	22 5.50	-13 0.3	1.918	2.790	12.3	20.0
448057	2008 <i>FW</i> ₁₀₀		8 27.7 35°71	2°0/25.7	18		188522	2004 <i>RY</i> ₉₁		8 27.7 309°21	4°1/31.9	18	
7 20	22 47.16	-12 10.5	1.990	2.834	13.7	21.0	7 20	22 46.43	+ 4 8.7	2.141	2.919	15.0	20.1
7 30	22 43.88	-12 59.1	1.920	2.840	10.6	20.9	7 30	22 43.30	+ 4 15.8	2.046	2.911	12.5	19.9
8 9	22 38.67	-13 56.7	1.872	2.845	7.0	20.7	8 9	22 38.33	+ 4 5.4	1.971	2.903	9.6	19.7
8 19	22 32.02	-14 58.6	1.849	2.852	3.4	20.4	8 19	22 31.91	+ 3 37.5	1.919	2.895	6.5	19.5
8 29	22 24.65	-15 58.5	1.853	2.858	2.4	20.4	8 29	22 24.70	+ 2 54.2	1.893	2.887	4.3	19.4
9 8	22 17.46	-16 50.5	1.884	2.865	5.7	20.6	9 8	22 17.49	+ 1 59.5	1.893	2.880	5.0	19.4
9 18	22 11.26	-17 30.1	1.942	2.872	9.2	20.8	9 18	22 11.10	+ 0 58.8	1.921	2.873	7.9	19.6
9 28	22 6.75	-17 54.9	2.023	2.879	12.4	21.1	9 28	22 6.23	- 0 1.9	1.974	2.865	11.0	19.7
22969	1999 <i>VD</i> ₆		8 27.7 300°85	0°8/26.9	18		468342	2016 <i>ER</i> ₇₃		8 27.7 128°61	3°6/25.0	17	
7 20	22 47.24	- 9 44.7	2.124	2.958	13.3	19.0	7 20	22 55.67	-14 37.5	1.445	2.299	17.4	21.3
7 30	22 43.98	-10 14.1	2.029	2.942	10.4	18.7	7 30	22 51.26	-15 35.0	1.384	2.308	13.5	21.1
8 9	22 38.82	-10 53.9	1.955	2.925	7.0	18.5	8 9	22 44.04	-16 42.4	1.343	2.318	9.1	20.9
8 19	22 32.15	-11 40.8	1.906	2.909	3.3	18.2	8 19	22 34.67	-17 51.9	1.325	2.326	4.8	20.7
8 29	22 24.62	-12 29.8	1.885	2.894	1.2	18.1	8 29	22 24.29	-18 54.4	1.333	2.335	4.2	20.6
9 8	22 17.09	-13 15.7	1.891	2.878	5.0	18.3	9 8	22 14.25	-19 41.8	1.367	2.342	8.0	20.9
9 18	22 10.38	-13 53.7	1.924	2.862	8.8	18.5	9 18	22 5.81	-20 9.4	1.425	2.350	12.3	21.2
9 28	22 5.27	-14 20.2	1.981	2.847	12.2	18.7	9 28	21 59.91	-20 15.9	1.504	2.357	16.1	21.4
310649	2002 <i>CJ</i> ₂₉₆		8 27.7 191°50	0°6/26.9	18		220980	2005 <i>NY</i> ₉		8 27.7 21°80	7°6/3.2	17	
7 20	22 48.82	- 9 47.8	2.769	3.585	11.0	22.7	7 20	22 40.87	+ 9 4.4	0.998	1.827	25.2	19.3
7 30	22 44.61	-10 17.9	2.680	3.584	8.6	22.5	7 30	22 40.46	+ 9 16.8	0.949	1.839	21.3	19.0
8 9	22 38.90	-10 55.5	2.615	3.582	5.7	22.3	8 9	22 37.11	+ 8 50.6	0.913	1.853	16.8	18.8
8 19	22 32.07	-11 37.9	2.577	3.579	2.7	22.1	8 19	22 31.48	+ 7 44.8	0.893	1.869	12.0	18.6
8 29	22 24.65	-12 21.2	2.568	3.576	0.9	22.0	8 29	22 24.78	+ 6 4.5	0.894	1.886	8.2	18.5
9 8	22 17.29	-13 1.7	2.588	3.573	4.0	22.2	9 8	22 18.45	+ 4 2.1	0.916	1.906	8.1	18.6
9 18	22 10.63	-13 35.8	2.637	3.569	7.0	22.4	9 18	22 13.79	+ 1 52.9	0.959	1.926	11.5	18.8
9 28	22 5.22	-14 1.2	2.711	3.565	9.7	22.6	9 28	22 11.77	- 0 8.0	1.023	1.948	15.7	19.2
474632	2004 <i>TO</i> ₃₄₂		8 27.7 326°18	5°0/31.4	18		364035	2005 <i>WD</i> ₄₀		8 27.7 119°99	2°6/24.8	18	
7 20	22 44.65	+ 2 51.8	1.412	2.232	19.5	20.9	7 20	22 49.04	-15 46.4	2.415	3.253	11.8	21.4
7 30	22 42.94	+ 3 8.9	1.321	2.213	16.3	20.6	7 30	22 44.98	-16 31.5	2.343	3.260	9.1	21.2
8 9	22 38.69	+ 3 2.5	1.248	2.196	12.4	20.3	8 9	22 39.24	-17 21.7	2.296	3.267	6.1	21.0
8 19	22 32.28	+ 2 31.5	1.194	2.179	8.3	20.1	8 19	22 32.25	-18 12.3	2.274	3.274	3.3	20.9
8 29	22 24.59	+ 1 37.8	1.164	2.163	5.2	19.8	8 29	22 24.67	-18 58.4	2.281	3.280	3.0	20.9
9 8	22 16.79	+ 0 27.6	1.157	2.148	6.5	19.9	9 8	22 17.24	-19 35.6	2.315	3.287	5.5	21.1
9 18	22 10.15	- 0 50.3	1.173	2.134	10.7	20.1	9 18	22 10.68	-20 0.8	2.377	3.293	8.5	21.3
9 28	22 5.75	- 2 6.1	1.212	2.121	15.1	20.3	9 28	22 5.59	-20 12.5	2.464	3.299	11.1	21.4
76586	2000 <i>GW</i> ₁₄₁		8 27.7 18°01	2°5/24.5	18		93141	2000 <i>SY</i> ₇₂					

EPHEMERIDES

8 27.7

8 27.7

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
51727	2001 <i>KV</i> ₄₁		8 27.7 325°75	6°4/21.8	18		361974	2008 <i>KM</i> ₁₂		8 27.7 13°30	6°0/21.9	18	
7 20	22 47.49	-21 42.4	1.611	2.482	15.1	18.1	7 20	22 49.95	-24 32.3	1.965	2.822	13.3	20.3
7 30	22 44.95	-23 2.4	1.536	2.468	11.9	17.9	7 30	22 46.23	-25 33.8	1.902	2.824	10.5	20.1
8 9	22 39.88	-24 27.4	1.483	2.455	8.7	17.7	8 9	22 40.36	-26 35.0	1.862	2.826	7.8	20.0
8 19	22 32.79	-25 48.7	1.453	2.442	6.5	17.5	8 19	22 32.87	-27 28.9	1.847	2.829	6.1	19.9
8 29	22 24.58	-26 56.5	1.447	2.429	7.2	17.6	8 29	22 24.62	-28 8.6	1.857	2.832	6.6	19.9
9 8	22 16.44	-27 42.8	1.467	2.417	10.2	17.7	9 8	22 16.60	-28 29.4	1.893	2.835	8.9	20.0
9 18	22 9.55	-28 3.4	1.509	2.406	13.6	17.9	9 18	22 9.75	-28 29.3	1.954	2.839	11.6	20.2
9 28	22 4.88	-27 57.8	1.571	2.396	16.9	18.1	9 28	22 4.80	-28 9.0	2.036	2.843	14.2	20.4
187527	2006 <i>US</i> ₄₅		8 27.7 254°89	2°0/26.1	18		509601	2008 <i>EH</i> ₂₄		8 27.7 74°45	4°7/23.2	18	
7 20	22 52.28	-11 33.4	1.752	2.593	15.4	21.2	7 20	22 52.45	-21 56.0	2.104	2.952	12.9	21.0
7 30	22 48.45	-12 16.3	1.659	2.577	12.1	21.0	7 30	22 47.81	-22 49.0	2.053	2.972	10.0	20.9
8 9	22 42.16	-13 11.3	1.587	2.560	8.1	20.7	8 9	22 41.19	-23 42.4	2.025	2.991	7.1	20.7
8 19	22 33.87	-14 13.5	1.540	2.543	3.9	20.4	8 19	22 33.18	-24 30.2	2.022	3.011	5.0	20.6
8 29	22 24.41	-15 16.0	1.519	2.525	2.4	20.3	8 29	22 24.60	-25 6.6	2.047	3.031	5.2	20.7
9 8	22 14.88	-16 11.3	1.525	2.508	6.5	20.5	9 8	22 16.35	-25 27.5	2.098	3.050	7.5	20.9
9 18	22 6.43	-16 53.3	1.557	2.489	10.9	20.7	9 18	22 9.27	-25 31.3	2.175	3.070	10.2	21.1
9 28	22 0.06	-17 18.5	1.611	2.470	14.9	20.9	9 28	22 4.00	-25 18.2	2.275	3.089	12.7	21.3
61444	Katokimiko		8 27.7 11°07	1°5/26.6	18		398117	2009 <i>VP</i> ₈₀		8 27.7 301°28	0°1/27.9	18	
7 20	22 40.37	- 7 55.9	1.010	1.897	20.7	17.7	7 20	22 44.42	- 2 53.9	2.246	3.057	13.4	20.3
7 30	22 40.13	- 8 49.5	0.958	1.901	16.1	17.5	7 30	22 41.80	- 4 10.5	2.134	3.032	10.7	20.0
8 9	22 36.93	-10 4.9	0.924	1.907	10.7	17.2	8 9	22 37.40	- 5 46.6	2.044	3.007	7.4	19.8
8 19	22 31.42	-11 34.5	0.909	1.915	4.9	16.9	8 19	22 31.55	- 7 38.6	1.981	2.981	3.6	19.5
8 29	22 24.81	-13 6.5	0.916	1.925	2.1	16.8	8 29	22 24.82	- 9 40.5	1.946	2.956	0.5	19.2
9 8	22 18.55	-14 28.5	0.946	1.937	7.6	17.2	9 8	22 17.95	-11 43.9	1.941	2.930	4.6	19.5
9 18	22 13.94	-15 30.8	0.996	1.951	12.9	17.5	9 18	22 11.75	-13 40.8	1.965	2.905	8.5	19.7
9 28	22 11.96	-16 8.3	1.066	1.966	17.5	17.8	9 28	22 6.97	-15 23.9	2.015	2.880	12.1	19.8
11162	1998 <i>BG</i> ₈		8 27.7 313°78	2°6/25.7	18		227518	2005 <i>YS</i> ₃₉		8 27.7 239°17	0°8/28.5	18	
7 20	22 48.51	-12 39.8	1.480	2.340	16.7	17.3	7 20	22 48.67	- 5 45.2	2.425	3.235	12.6	20.6
7 30	22 45.88	-13 21.6	1.396	2.325	13.1	17.0	7 30	22 44.75	- 5 54.7	2.335	3.231	10.0	20.4
8 9	22 40.62	-14 15.9	1.333	2.310	8.8	16.7	8 9	22 39.15	- 6 14.4	2.267	3.227	6.9	20.2
8 19	22 33.19	-15 17.2	1.292	2.295	4.3	16.4	8 19	22 32.28	- 6 42.2	2.224	3.223	3.5	20.0
8 29	22 24.53	-16 17.3	1.275	2.281	3.1	16.3	8 29	22 24.73	- 7 15.2	2.209	3.219	0.8	19.8
9 8	22 15.87	-17 7.8	1.284	2.267	7.4	16.6	9 8	22 17.24	- 7 49.2	2.223	3.214	3.9	20.0
9 18	22 8.47	-17 42.4	1.317	2.254	12.1	16.8	9 18	22 10.52	- 8 20.5	2.265	3.210	7.3	20.2
9 28	22 3.39	-17 57.5	1.370	2.241	16.3	17.0	9 28	22 5.21	- 8 45.8	2.332	3.205	10.3	20.4
187309	2005 <i>UW</i> ₁₅		8 27.7 140°59	1°8/25.8	18		405846	2006 <i>BS</i> ₂₄₈		8 27.7 333°27	0°5/27.3	18	
7 20	22 49.18	-13 4.5	2.281	3.116	12.5	21.1	7 20	22 50.92	-10 53.4	2.078	2.909	13.7	20.7
7 30	22 45.22	-13 40.5	2.204	3.118	9.6	20.9	7 30	22 46.80	-10 52.1	1.991	2.902	10.7	20.5
8 9	22 39.48	-14 23.4	2.149	3.120	6.4	20.7	8 9	22 40.69	-10 58.1	1.927	2.896	7.2	20.3
8 19	22 32.41	-15 9.3	2.120	3.123	3.1	20.5	8 19	22 33.05	-11 8.8	1.887	2.890	3.4	20.0
8 29	22 24.07	-15 53.2	2.120	3.125	2.2	20.5	8 29	22 24.61	-11 20.6	1.875	2.884	0.9	19.8
9 8	22 17.07	-16 30.5	2.147	3.127	5.2	20.7	9 8	22 16.27	-11 29.7	1.890	2.879	4.8	20.1
9 18	22 10.35	-16 57.5	2.201	3.129	8.4	20.9	9 18	22 8.90	-11 33.0	1.932	2.874	8.5	20.3
9 28	22 5.17	-17 12.3	2.280	3.131	11.4	21.1	9 28	22 3.23	-11 28.3	1.999	2.869	11.9	20.5
511306	2014 <i>DH</i> ₈₇		8 27.7 198°28	1°2/26.7	18		479211	2013 <i>CH</i> ₁₃₀		8 27.7 278°75	1°0/28.7	18	
7 20	22 54.58	-12 15.7	2.070	2.898	13.8	21.7	7 20	22 47.55	- 3 31.0	2.055	2.868	14.4	21.7
7 30	22 49.63	-12 26.9	1.987	2.896	10.8	21.5	7 30	22 44.38	- 4 1.7	1.950	2.848	11.6	21.4
8 9	22 42.58	-12 45.2	1.925	2.894	7.3	21.3	8 9	22 39.22	- 4 48.5	1.866	2.827	8.1	21.2
8 19	22 33.92	-13 7.1	1.889	2.891	3.4	21.0	8 19	22 32.44	- 5 49.1	1.807	2.805	4.2	20.9
8 29	22 24.44	-13 28.1	1.881	2.889	1.5	20.9	8 29	22 24.69	- 6 59.0	1.775	2.784	1.0	20.6
9 8	22 15.10	-13 44.0	1.901	2.886	5.2	21.1	9 8	22 16.85	- 8 12.0	1.770	2.762	4.6	20.8
9 18	22 6.81	-13 51.8	1.948	2.882	9.0	21.4	9 18	22 9.79	- 9 21.8	1.793	2.740	8.7	21.0
9 28	22 0.34	-13 49.3	2.020	2.879	12.3	21.6	9 28	22 4.35	-10 22.3	1.840	2.719	12.4	21.2
10822	Yasunori		8 27.7 359°23	2°4/26.1	18		485509	2011 <i>SA</i> ₂₇₀		8 27.7 307°15	3°8/24.1	18	
7 20	22 50.46	-11 59.0	1.202	2.071	19.2	16.9	7 20	22 47.16	-15 17.9	1.723	2.582	14.8	21.0
7 30	22 47.78	-12 32.5	1.137	2.070	15.0	16.6	7 30	22 44.51	-16 25.8	1.636	2.565	11.5	20.7
8 9	22 42.04	-13 20.0	1.090	2.069	10.1	16.3	8 9	22 39.53	-17 44.4	1.571	2.547	7.8	20.5
8 19	22 33.87	-14 14.9	1.064	2.068	4.8	16.0	8 19	22 32.65	-19 7.0	1.530	2.530	4.5	20.2
8 29	22 24.45	-15 8.2	1.061	2.068	2.9	15.9	8 29	22 24.69	-20 25.0	1.515	2.514	4.5	20.2
9 8	22 15.28	-15 51.0	1.082	2.069	7.8	16.2	9 8	22 16.70	-21 30.1	1.526	2.497	7.9	20.4
9 18	22 7.78	-16 17.0	1.126	2.070	12.9	16.5	9 18	22 9.77	-22 16.3	1.562	2.481	11.8	20.6
9 28	22 3.04	-16 23.0	1.190	2.072	17.4	16.8	9 28	22 4.84	-22 40.6	1.619	2.466	15.4	20.8
20349	1998 <i>HU</i> ₁₂₃		8 27.7 273°81	1°8/25.8	18		35362	1997 <i>TZ</i> ₂₆		8 27.7 355°08	0°1/27.7	18	
7 20	22 47.36	- 8 57.7	1.825	2.665	14.9	17.8	7 20	22 39.27	- 3 37.6	1.114	1.984	20.3	18.0
7 30	22 44.50	-10 13.8	1.731	2.649	11.6	17.5	7 30	22 39.16	- 4 40.0	1.046	1.978	16.1	17.7
8 9	22 39.43	-11 46.6	1.659	2.632	7.8	17.3	8 9	22 36.31	- 6 11.1	0.995	1.972	11.0	17.5
8 19	22 32.56	-13 30.8	1.612	2.616	3.7	17.0	8 19	22 31.22	- 8 5.2	0.964	1.968	5.3	17.1
8 29	22 24.64	-15 17.9	1.592	2.599	2.4	16.8	8 29	22 24.91	-10 11.1	0.957	1.966	0.8	16.8
9 8	22 16.63	-16 58.7	1.600	2.582	6.4	17.1	9 8	22 18.73	-12 14.3	0.972	1.966	6.9	17.2
9 18	22 9.56	-18 25.0	1.634	2.565	10.7	17.3	9 18	22 13.99	-14 1.3	1.009	1.966	12.5	17.5
9 28	22 4.34	-19 31.4	1.692	2.547	14.4	17.5	9 28	22 11.75	-15 22.9	1.067	1.969	17.3	17.8
41039	1999 <i>UX</i> ₅₆		8 27.7 240°54	4°3/22.8	18 R		521779	2015 <i>SE</i> ₂₇		8 27.7 280°17			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
248983	2007 <i>EE</i> ₄₄		8 27.7 243°48	0°2/27.5	18		512795	2016 <i>UO</i> ₈₂		8 27.7 72°47	1°0/26.8	18	R
7 20	22 49.54	- 8 57.9	2.494	3.311	12.1	20.9	7 20	22 49.89	-10 5.0	1.905	2.741	14.5	21.2
7 30	22 45.43	- 9 14.2	2.399	3.302	9.5	20.7	7 30	22 46.16	-10 36.2	1.829	2.743	11.3	21.0
8 9	22 39.63	- 9 38.9	2.327	3.292	6.4	20.5	8 9	22 40.34	-11 18.0	1.774	2.745	7.6	20.8
8 19	22 32.54	-10 9.5	2.281	3.283	3.0	20.3	8 19	22 32.93	-12 6.2	1.745	2.748	3.5	20.5
8 29	22 24.75	-10 42.3	2.263	3.273	0.6	20.1	8 29	22 24.72	-12 55.4	1.742	2.750	1.4	20.4
9 8	22 16.98	-11 13.5	2.274	3.262	4.1	20.3	9 8	22 16.67	-13 39.6	1.766	2.753	5.3	20.7
9 18	22 9.96	-11 39.6	2.313	3.252	7.5	20.5	9 18	22 9.67	-14 14.3	1.817	2.755	9.2	20.9
9 28	22 4.34	-11 57.6	2.378	3.241	10.5	20.7	9 28	22 4.48	-14 36.2	1.891	2.757	12.7	21.1
91547	1999 <i>RZ</i> ₂₀₉		8 27.7 345°75	0°9/27.0	18		93362	2000 <i>SQ</i> ₂₆₃		8 27.7 263°59	5°0/24.2	18	
7 20	22 51.85	-12 8.8	1.866	2.705	14.7	18.6	7 20	22 57.77	-21 43.9	1.789	2.636	14.9	20.4
7 30	22 47.76	-12 5.9	1.784	2.700	11.5	18.4	7 30	22 52.67	-22 13.6	1.707	2.625	11.8	20.2
8 9	22 41.46	-12 10.1	1.724	2.695	7.7	18.2	8 9	22 44.96	-22 44.5	1.647	2.615	8.4	19.9
8 19	22 33.47	-12 18.1	1.688	2.691	3.6	17.9	8 19	22 35.21	-23 10.1	1.611	2.604	5.5	19.8
8 29	22 24.61	-12 26.1	1.678	2.687	1.3	17.7	8 29	22 24.38	-23 23.8	1.602	2.593	5.4	19.7
9 8	22 15.89	-12 29.9	1.696	2.684	5.3	18.0	9 8	22 13.71	-23 20.5	1.619	2.582	8.3	19.9
9 18	22 8.28	-12 26.6	1.740	2.681	9.3	18.3	9 18	22 4.38	-22 58.6	1.661	2.570	11.9	20.1
9 28	22 2.59	-12 14.2	1.807	2.679	12.9	18.5	9 28	21 57.35	-22 18.7	1.726	2.559	15.2	20.3
4508	Takatsuki		8 27.7 81°15	1°5/26.7	18		295411	2008 <i>JH</i> ₂₈		8 27.7 327°74	1°9/25.9	18	
7 20	22 53.36	- 9 46.2	1.299	2.153	19.0	16.8	7 20	22 45.99	-11 32.9	1.948	2.794	13.9	20.8
7 30	22 49.69	-10 24.8	1.239	2.163	14.8	16.6	7 30	22 43.19	-12 21.1	1.863	2.784	10.8	20.6
8 9	22 43.13	-11 18.7	1.198	2.173	9.9	16.3	8 9	22 38.41	-13 20.1	1.801	2.775	7.2	20.3
8 19	22 34.34	-12 21.6	1.179	2.183	4.6	16.1	8 19	22 32.06	-14 25.1	1.763	2.766	3.4	20.1
8 29	22 24.49	-13 24.8	1.184	2.193	2.0	15.9	8 29	22 24.86	-15 29.9	1.752	2.758	2.3	20.0
9 8	22 14.99	-14 19.5	1.215	2.202	7.0	16.3	9 8	22 17.71	-16 27.8	1.768	2.750	5.8	20.2
9 18	22 7.15	-14 59.2	1.269	2.212	11.9	16.6	9 18	22 11.49	-17 13.7	1.809	2.742	9.6	20.4
9 28	22 1.94	-15 20.6	1.345	2.222	16.1	16.8	9 28	22 6.97	-17 44.1	1.874	2.735	13.0	20.6
65331	2002 <i>LW</i> ₃₅		8 27.7 308°23	4°4/22.5	18		326171	2012 <i>BS</i> ₁₁₂		8 27.7 201°09	0°1/27.8	18	
7 20	22 47.04	-19 46.9	2.272	3.124	11.9	19.3	7 20	22 48.98	- 7 47.9	2.613	3.425	11.7	21.5
7 30	22 43.73	-21 1.6	2.198	3.120	9.3	19.1	7 30	22 44.88	- 8 4.1	2.524	3.423	9.2	21.3
8 9	22 38.60	-22 20.6	2.147	3.117	6.5	18.9	8 9	22 39.20	- 8 29.0	2.458	3.421	6.3	21.1
8 19	22 32.08	-23 37.5	2.122	3.113	4.6	18.8	8 19	22 32.33	- 9 0.0	2.417	3.418	3.0	20.9
8 29	22 24.82	-24 45.9	2.125	3.110	5.0	18.8	8 29	22 24.85	- 9 33.9	2.406	3.415	0.4	20.7
9 8	22 17.65	-25 40.1	2.155	3.107	7.3	19.0	9 8	22 17.44	-10 7.0	2.423	3.412	3.8	20.9
9 18	22 11.35	-26 16.6	2.211	3.104	10.1	19.1	9 18	22 10.75	-10 35.9	2.468	3.409	7.0	21.1
9 28	22 6.60	-26 34.0	2.290	3.101	12.7	19.3	9 28	22 5.38	-10 57.7	2.540	3.405	9.9	21.3
435673	2008 <i>TM</i> ₁₈		8 27.7 343°24	7°1/23.2	18		241267	2007 <i>TM</i> ₃₉₃		8 27.7 266°79	3°7/24.4	18	
7 20	22 51.76	-23 32.6	1.299	2.177	17.5	20.3	7 20	22 50.98	-17 3.7	1.883	2.733	14.1	20.3
7 30	22 48.84	-24 17.8	1.232	2.167	14.0	20.0	7 30	22 47.14	-17 53.8	1.808	2.731	10.9	20.1
8 9	22 42.80	-25 3.9	1.184	2.157	10.2	19.8	8 9	22 41.09	-18 50.0	1.755	2.728	7.5	19.8
8 19	22 34.28	-25 41.5	1.158	2.149	7.5	19.6	8 19	22 33.33	-19 46.3	1.727	2.726	4.3	19.7
8 29	22 24.49	-26 1.3	1.154	2.142	7.8	19.6	8 29	22 24.71	-20 35.7	1.726	2.724	4.2	19.6
9 8	22 14.97	-25 56.6	1.174	2.135	10.9	19.8	9 8	22 16.23	-21 12.3	1.752	2.721	7.2	19.8
9 18	22 7.17	-25 25.7	1.215	2.130	14.8	20.0	9 18	22 8.86	-21 32.5	1.802	2.719	10.7	20.0
9 28	22 2.17	-24 30.6	1.276	2.126	18.5	20.2	9 28	22 3.43	-21 34.8	1.876	2.716	13.9	20.2
11257	Rodiionta		8 27.7 301°49	0°3/27.9	18		53547	2000 <i>BF</i> ₈		8 27.7 284°18	1°2/26.9	18	
7 20	22 47.71	- 5 27.3	1.378	2.225	18.4	18.0	7 20	22 54.39	-11 31.0	1.519	2.365	17.1	19.2
7 30	22 45.48	- 5 57.0	1.290	2.208	14.7	17.7	7 30	22 50.42	-11 39.3	1.435	2.354	13.5	18.9
8 9	22 40.53	- 6 47.4	1.220	2.191	10.2	17.4	8 9	22 43.68	-11 57.9	1.371	2.343	9.2	18.6
8 19	22 33.27	- 7 55.2	1.172	2.174	5.0	17.1	8 19	22 34.71	-12 22.8	1.330	2.333	4.3	18.3
8 29	22 24.62	- 9 13.4	1.147	2.157	0.7	16.7	8 29	22 24.50	-12 48.3	1.314	2.322	1.6	18.1
9 8	22 15.89	-10 32.5	1.148	2.141	6.3	17.0	9 8	22 14.34	-13 8.2	1.324	2.312	6.4	18.4
9 18	22 8.39	-11 43.2	1.173	2.125	11.7	17.3	9 18	22 5.53	-13 17.9	1.358	2.301	11.3	18.7
9 28	22 3.30	-12 37.8	1.219	2.109	16.5	17.5	9 28	21 59.13	-13 14.5	1.415	2.291	15.5	18.9
431337	2006 <i>XO</i> ₅₅		8 27.7 252°69	1°5/26.5	17		470995	2009 <i>SK</i> ₁₃₀		8 27.7 306°59	1°0/28.5	18	
7 20	22 52.09	-10 37.9	1.759	2.597	15.5	22.1	7 20	22 46.58	- 4 11.4	1.416	2.260	18.2	21.1
7 30	22 48.27	-11 15.4	1.668	2.584	12.1	21.9	7 30	22 44.62	- 4 35.4	1.320	2.235	14.7	20.8
8 9	22 42.05	-12 5.3	1.598	2.569	8.2	21.6	8 9	22 40.00	- 5 20.7	1.241	2.210	10.4	20.5
8 19	22 33.86	-13 3.0	1.552	2.555	3.9	21.3	8 19	22 33.08	- 6 25.2	1.184	2.185	5.3	20.1
8 29	22 24.55	-14 2.0	1.532	2.540	1.9	21.2	8 29	22 24.72	- 7 43.1	1.151	2.161	1.0	19.7
9 8	22 15.21	-14 55.1	1.540	2.525	6.2	21.4	9 8	22 16.15	- 9 5.2	1.143	2.137	6.1	20.0
9 18	22 6.94	-15 36.5	1.573	2.509	10.6	21.7	9 18	22 8.70	-10 22.0	1.159	2.114	11.5	20.3
9 28	22 0.72	-16 2.3	1.630	2.493	14.5	21.9	9 28	22 3.57	-11 25.0	1.196	2.091	16.4	20.5
13451	6103 <i>P-L</i>		8 27.7 292°41	1°1/26.7	18		200501	2001 <i>AX</i> ₁₂		8 27.7 274°95	0°5/28.1	18	
7 20	22 49.45	-11 32.8	2.226	3.058	12.9	19.7	7 20	22 50.45	- 6 19.9	1.852	2.676	15.3	20.5
7 30	22 45.69	-11 52.4	2.126	3.038	10.1	19.5	7 30	22 46.88	- 6 35.4	1.754	2.660	12.2	20.3
8 9	22 40.00	-12 20.1	2.047	3.017	6.8	19.3	8 9	22 41.06	- 7 4.6	1.678	2.643	8.5	20.0
8 19	22 32.80	-12 52.7	1.994	2.997	3.2	19.0	8 19	22 33.41	- 7 45.0	1.625	2.626	4.2	19.7
8 29	22 24.72	-13 25.7	1.969	2.977	1.5	18.8	8 29	22 24.69	- 8 32.1	1.599	2.609	0.6	19.4
9 8	22 16.60	-13 54.8	1.971	2.956	5.0	19.0	9 8	22 15.92	- 9 20.0	1.600	2.592	5.1	19.7
9 18	22 9.29	-14 15.9	2.001	2.936	8.7	19.2	9 18	22 8.10	-10 2.9	1.628	2.574	9.4	19.9
9 28	22 3.55	-14 26.3	2.055	2.916	12.0	19.4	9 28	22 2.15	-10 36.1	1.679	2.557	13.4	20.1
479763	2014 <i>EG</i> ₂₆		8 27.7 248°51	1°7/26.2	18		383237	2006 <i>BW</i> ₇₁		8 27.7 209°24	1°8/26.1		

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
436603	2011 <i>KF</i> ₁₂		8 27.7 68°59'	8.5/4.6	16		181329	2006 <i>QZ</i> ₉₇		8 27.7 317°39'	6.7/2.6	18	
7 20	22 50.81	+12 49.4	1.741	2.478	19.4	20.5	7 20	22 43.83	+8 28.2	1.657	2.437	18.6	19.5
7 30	22 47.09	+13 38.4	1.670	2.491	16.8	20.3	7 30	22 42.11	+8 46.2	1.549	2.408	16.1	19.2
8 9	22 41.10	+14 2.6	1.616	2.504	13.9	20.1	8 9	22 38.10	+8 39.4	1.458	2.380	13.0	19.0
8 19	22 33.35	+13 59.4	1.581	2.517	11.1	20.0	8 19	22 32.13	+8 4.9	1.386	2.352	9.7	18.7
8 29	22 24.72	+13 28.4	1.570	2.531	8.9	19.9	8 29	22 24.91	+7 2.6	1.338	2.324	7.1	18.5
9 8	22 16.26	+12 33.7	1.582	2.544	8.6	19.9	9 8	22 17.45	+5 37.0	1.314	2.297	7.2	18.4
9 18	22 8.97	+11 22.0	1.620	2.557	10.2	20.0	9 18	22 10.87	+3 55.8	1.314	2.271	10.2	18.5
9 28	22 3.68	+10 2.0	1.681	2.571	12.7	20.2	9 28	22 6.23	+2 9.8	1.338	2.245	14.1	18.7
101596	1999 <i>BR</i> ₂₇		8 27.7 183°16'	3.5/30.9	18		264369	2000 <i>CH</i> ₁₃₂		8 27.7 215°14'	0.2/27.6	17	
7 20	22 52.48	+2 4.3	2.081	2.859	15.4	20.7	7 20	22 53.06	-7 49.1	1.871	2.695	15.2	21.9
7 30	22 48.05	+2 6.6	1.992	2.860	12.7	20.5	7 30	22 48.80	-8 13.7	1.783	2.689	12.0	21.6
8 9	22 41.60	+1 52.0	1.922	2.860	9.4	20.3	8 9	22 42.29	-8 51.0	1.717	2.683	8.2	21.4
8 19	22 33.57	+1 21.3	1.877	2.859	6.0	20.1	8 19	22 33.98	-9 37.5	1.674	2.676	3.9	21.1
8 29	22 24.70	+0 36.9	1.859	2.858	3.5	20.0	8 29	22 24.69	-10 28.1	1.659	2.669	0.7	20.9
9 8	22 15.88	-0 16.5	1.868	2.857	4.8	20.0	9 8	22 15.44	-11 16.6	1.672	2.661	5.2	21.2
9 18	22 8.00	-1 13.3	1.905	2.854	8.1	20.2	9 18	22 7.24	-11 57.7	1.711	2.653	9.5	21.4
9 28	22 1.83	-2 7.9	1.968	2.851	11.5	20.4	9 28	22 0.97	-12 27.2	1.774	2.644	13.2	21.6
10573	Piani		8 27.7 26°29'	3.6/31.2	18		300831	2007 <i>XE</i> ₂₅		8 27.7 316°58'	3.5/24.6	18	
7 20	22 43.04	+5 8.5	1.266	2.087	21.2	17.7	7 20	22 47.67	-14 54.9	1.672	2.531	15.2	20.5
7 30	22 41.71	+4 16.5	1.201	2.095	17.4	17.5	7 30	22 44.96	-15 52.8	1.590	2.518	11.8	20.2
8 9	22 37.80	+3 50.8	1.152	2.104	12.9	17.3	8 9	22 39.88	-17 0.9	1.528	2.505	8.0	20.0
8 19	22 31.88	+0 54.4	1.125	2.114	7.9	17.0	8 19	22 32.89	-18 12.8	1.491	2.492	4.4	19.7
8 29	22 24.95	-1 24.0	1.120	2.125	3.8	16.8	8 29	22 24.84	-19 20.3	1.479	2.480	4.1	19.7
9 8	22 18.25	-3 51.0	1.141	2.137	5.7	17.0	9 8	22 16.82	-20 15.5	1.493	2.468	7.6	19.9
9 18	22 12.92	-6 12.2	1.187	2.149	10.4	17.3	9 18	22 9.92	-20 53.0	1.532	2.457	11.6	20.1
9 28	22 9.90	-8 15.6	1.256	2.162	14.9	17.6	9 28	22 5.07	-21 9.9	1.592	2.446	15.3	20.3
265265	2004 <i>FT</i> ₂₁		8 27.7 222°94'	1.6/29.1	18		58857	1998 <i>HP</i> ₉₄		8 27.7 283°14'	4.8/23.2	18	
7 20	22 53.00	-3 27.8	1.870	2.679	15.8	21.9	7 20	22 52.26	-22 16.2	2.136	2.984	12.8	18.6
7 30	22 48.77	-3 35.4	1.777	2.671	12.7	21.6	7 30	22 47.89	-23 1.1	2.064	2.982	10.0	18.4
8 9	22 42.28	-3 58.2	1.705	2.662	9.0	21.4	8 9	22 41.47	-23 46.9	2.014	2.980	7.2	18.2
8 19	22 33.97	-4 34.2	1.657	2.653	4.9	21.1	8 19	22 33.50	-24 27.9	1.989	2.978	5.0	18.1
8 29	22 24.64	-5 19.7	1.636	2.644	1.6	20.9	8 29	22 24.78	-24 58.3	1.991	2.976	5.3	18.1
9 8	22 15.30	-6 8.9	1.642	2.634	4.9	21.1	9 8	22 16.23	-25 13.5	2.020	2.974	7.6	18.2
9 18	22 6.98	-6 56.3	1.675	2.623	9.1	21.3	9 18	22 8.75	-25 11.7	2.075	2.972	10.5	18.4
9 28	22 0.57	-7 36.5	1.732	2.612	12.9	21.5	9 28	22 3.06	-24 52.6	2.153	2.970	13.2	18.6
217272	2004 <i>AQ</i> ₂		8 27.7 105°05'	2.4/25.6	18		344056	1992 <i>HT</i> ₃		8 27.7 70°94'	18.3/4.8	16	
7 20	22 50.69	-10 53.5	1.546	2.396	16.7	20.1	7 20	23 26.89	-65 42.4	1.927	2.633	18.7	19.9
7 30	22 47.26	-12 0.8	1.480	2.403	12.9	19.9	7 30	23 18.49	-67 27.0	1.928	2.643	18.4	19.9
8 9	22 41.35	-13 22.1	1.435	2.410	8.6	19.7	8 9	23 3.72	-68 41.2	1.943	2.652	18.4	19.9
8 19	22 33.51	-14 50.3	1.413	2.417	4.1	19.4	8 19	22 44.21	-69 14.2	1.973	2.662	18.6	20.0
8 29	22 24.71	-16 16.5	1.418	2.423	2.9	19.4	8 29	22 23.29	-68 59.3	2.016	2.672	19.0	20.0
9 8	22 16.14	-17 31.4	1.449	2.430	7.0	19.7	9 8	22 4.76	-67 57.6	2.072	2.682	19.6	20.1
9 18	22 8.89	-18 28.8	1.505	2.436	11.3	19.9	9 18	21 51.15	-66 16.0	2.140	2.692	20.1	20.2
9 28	22 3.86	-19 5.3	1.583	2.442	15.0	20.2	9 28	21 43.31	-64 4.1	2.219	2.703	20.6	20.3
49074	1998 <i>RE</i> ₅₈		8 27.7 344°86'	1.0/28.5	18		429113	2009 <i>SJ</i> ₁₉₇		8 27.7 317°82'	3.7/4.2	17	
7 20	22 38.90	-4 24.4	1.007	1.887	21.2	17.9	7 20	22 40.67	+11 43.5	4.341	5.038	9.1	20.6
7 30	22 39.25	-4 42.7	0.935	1.871	17.1	17.6	7 30	22 37.89	+11 43.1	4.237	5.034	7.8	20.5
8 9	22 36.64	-5 27.0	0.878	1.857	12.0	17.3	8 9	22 34.24	+11 31.4	4.154	5.031	6.4	20.4
8 19	22 31.54	-6 34.5	0.841	1.844	6.1	16.9	8 19	22 29.94	+11 8.3	4.095	5.027	5.0	20.3
8 29	22 24.98	-7 57.3	0.824	1.833	1.1	16.6	8 29	22 25.31	+10 34.7	4.063	5.024	3.9	20.2
9 8	22 18.46	-9 23.4	0.828	1.824	6.9	16.9	9 8	22 20.70	+9 52.2	4.059	5.021	3.8	20.2
9 18	22 13.46	-10 40.4	0.853	1.818	12.9	17.2	9 18	22 16.45	+9 3.3	4.083	5.018	4.7	20.3
9 28	22 11.22	-11 38.4	0.896	1.813	18.2	17.5	9 28	22 12.90	+8 10.9	4.135	5.014	6.1	20.4
120549	1995 <i>BL</i> ₁₀		8 27.7 293°34'	1.0/26.9	18		476072	2007 <i>TV</i> ₈		8 27.7 4°70'	3.0/30.2	18	
7 20	22 50.63	-9 44.1	1.563	2.409	16.7	20.5	7 20	22 46.67	-0 18.9	1.552	2.374	17.9	21.0
7 30	22 47.51	-10 7.7	1.471	2.390	13.2	20.2	7 30	22 44.15	-0 20.7	1.476	2.374	14.5	20.7
8 9	22 41.77	-10 44.9	1.398	2.371	9.0	19.9	8 9	22 39.29	-0 42.7	1.419	2.375	10.6	20.5
8 19	22 33.85	-11 31.8	1.348	2.351	4.2	19.6	8 19	22 32.59	-1 23.3	1.383	2.376	6.3	20.3
8 29	22 24.64	-12 22.1	1.323	2.332	1.4	19.3	8 29	22 24.92	-2 18.4	1.372	2.377	3.1	20.1
9 8	22 15.34	-13 8.5	1.324	2.313	6.3	19.6	9 8	22 17.38	-3 21.4	1.386	2.380	5.3	20.2
9 18	22 7.19	-13 44.5	1.350	2.294	11.2	19.8	9 18	22 11.01	-4 24.6	1.425	2.383	9.5	20.5
9 28	22 1.28	-14 5.7	1.397	2.275	15.6	20.1	9 28	22 6.70	-5 21.1	1.487	2.386	13.5	20.7
203033	2000 <i>BD</i> ₃₃		8 27.7 101°62'	1.1/28.7	18		225088	2007 <i>OR</i> ₁₀		8 27.7 106°19'	0.0/27.0	15	
7 20	22 52.93	-5 17.9	2.062	2.871	14.5	20.5	7 20	22 27.36	-11 33.8	87.694	88.509	0.4	21.3
7 30	22 48.21	-5 21.5	1.992	2.887	11.5	20.3	7 30	22 27.02	-11 35.5	87.612	88.515	0.3	21.3
8 9	22 41.56	-5 36.7	1.943	2.902	7.9	20.1	8 9	22 26.66	-11 37.4	87.555	88.522	0.2	21.3
8 19	22 33.48	-6 1.2	1.919	2.917	4.1	19.9	8 19	22 26.27	-11 39.4	87.526	88.528	0.1	21.3
8 29	22 24.74	-6 31.5	1.922	2.931	1.1	19.7	8 29	22 25.87	-11 41.4	87.525	88.534	0.0	21.3
9 8	22 16.23	-7 3.0	1.954	2.945	4.3	20.0	9 8	22 25.47	-11 43.4	87.554	88.540	0.1	21.3
9 18	22 8.77	-7 31.7	2.013	2.959	7.9	20.2	9 18	22 25.09	-11 45.3	87.612	88.547	0.2	21.3
9 28	22 3.05	-7 54.0	2.098	2.973	11.2	20.5	9 28	22 24.73	-11 46.9	87.697	88.553	0.3	21.3
262320	2006 <i>TF</i> ₂₆		8 27.7 67°94'	4.0/30.9	17		305601	2008 <i>YC</i> ₁₃₄		8 27.7 6°70'	2.3/29.0	17	
7 20	2												

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
174031	2002 AR ₂₇		8 27.7 94°55'	2°8/30.1	18		487286	2014 QL ₂₅		8 27.7 344°60'	2°0/29.7	17	
7 20	22 55.96	- 1 47.9	2.341	3.121	13.8	19.6	7 20	22 48.81	- 2 51.9	2.397	3.196	13.0	21.6
7 30	22 50.32	- 1 15.2	2.266	3.138	11.2	19.5	7 30	22 44.92	- 2 42.5	2.308	3.194	10.5	21.4
8 9	22 42.87	- 0 53.3	2.212	3.154	8.1	19.3	8 9	22 39.34	- 2 44.3	2.241	3.192	7.5	21.2
8 19	22 34.11	- 0 42.0	2.184	3.171	5.0	19.1	8 19	22 32.49	- 2 56.0	2.198	3.191	4.3	21.0
8 29	22 24.73	- 0 39.6	2.185	3.187	2.8	19.0	8 29	22 24.97	- 3 15.4	2.184	3.189	2.0	20.9
9 8	22 15.57	- 0 43.8	2.215	3.202	4.3	19.1	9 8	22 17.52	- 3 39.2	2.197	3.188	3.9	21.0
9 18	22 7.37	- 0 51.5	2.273	3.218	7.2	19.4	9 18	22 10.84	- 4 3.9	2.238	3.187	7.1	21.2
9 28	22 0.79	- 0 59.4	2.358	3.233	10.1	19.6	9 28	22 5.58	- 4 25.9	2.305	3.186	10.1	21.4
187831	1999 VC ₉₅		8 27.7 338°82'	2°4/30.0	18		221447	2006 AJ ₇₅		8 27.7 169°41'	0°7/26.9	18	
7 20	22 45.64	- 1 0.5	1.869	2.682	15.6	20.3	7 20	22 46.89	- 8 52.2	2.764	3.582	11.0	20.8
7 30	22 43.01	- 1 7.0	1.781	2.674	12.7	20.0	7 30	22 43.19	- 9 36.2	2.680	3.584	8.6	20.6
8 9	22 38.36	- 1 30.4	1.712	2.666	9.2	19.8	8 9	22 38.05	-10 28.9	2.620	3.586	5.7	20.4
8 19	22 32.12	- 2 9.3	1.667	2.659	5.4	19.6	8 19	22 31.84	-11 27.1	2.586	3.588	2.6	20.2
8 29	22 25.00	- 3 0.2	1.647	2.653	2.5	19.4	8 29	22 25.07	-12 26.6	2.581	3.590	0.9	20.1
9 8	22 17.92	- 3 57.5	1.654	2.647	4.6	19.5	9 8	22 18.37	-13 23.0	2.606	3.591	3.9	20.3
9 18	22 11.77	- 4 55.2	1.686	2.641	8.5	19.7	9 18	22 12.33	-14 12.4	2.659	3.592	6.9	20.5
9 28	22 7.33	- 5 47.2	1.743	2.636	12.2	19.9	9 28	22 7.51	-14 52.0	2.738	3.593	9.6	20.7
285448	1999 WK ₁₉		8 27.7 184°99'	6°6/ 3.7	18		25539	Roberthelm		8 27.7 175°17'	2°2/25.6	18	
7 20	22 49.26	+11 36.3	2.150	2.878	16.4	20.8	7 20	22 49.69	-12 22.7	1.945	2.786	14.1	19.3
7 30	22 45.57	+11 57.5	2.059	2.878	14.1	20.7	7 30	22 46.05	-13 15.2	1.868	2.787	10.9	19.1
8 9	22 39.95	+11 57.6	1.986	2.878	11.6	20.5	8 9	22 40.33	-14 17.6	1.814	2.787	7.3	18.8
8 19	22 32.84	+11 35.1	1.935	2.878	8.9	20.3	8 19	22 33.02	-15 24.5	1.785	2.787	3.6	18.6
8 29	22 24.90	+10 50.4	1.908	2.877	7.0	20.2	8 29	22 24.89	-16 29.4	1.783	2.788	2.6	18.6
9 8	22 16.99	+ 9 47.1	1.908	2.876	6.8	20.2	9 8	22 16.88	-17 25.8	1.808	2.788	6.0	18.8
9 18	22 9.94	+ 8 31.1	1.934	2.875	8.6	20.3	9 18	22 9.90	-18 8.8	1.860	2.788	9.7	19.0
9 28	22 4.50	+ 7 9.5	1.986	2.873	11.2	20.5	9 28	22 4.70	-18 35.6	1.935	2.787	13.0	19.2
195475	2002 GQ ₁₂₆		8 27.7 163°91'	0°2/27.9	16 R		128182	2003 RO ₁₈		8 27.7 75°90'	2°6/30.5	18	
7 20	22 51.22	- 6 37.3	2.017	2.835	14.5	21.6	7 20	22 48.51	+ 0 8.6	2.329	3.116	13.7	19.7
7 30	22 47.10	- 7 4.3	1.936	2.839	11.4	21.4	7 30	22 44.65	+ 0 10.3	2.251	3.127	11.1	19.5
8 9	22 40.97	- 7 43.8	1.877	2.842	7.8	21.2	8 9	22 39.12	- 0 1.7	2.195	3.138	8.1	19.4
8 19	22 33.30	- 8 32.6	1.843	2.844	3.8	20.9	8 19	22 32.36	- 0 26.2	2.163	3.149	5.0	19.2
8 29	22 24.84	- 9 25.8	1.837	2.847	0.5	20.7	8 29	22 24.99	- 1 0.7	2.158	3.160	2.7	19.1
9 8	22 16.50	-10 17.7	1.859	2.849	4.6	21.0	9 8	22 17.77	- 1 41.2	2.181	3.172	4.0	19.2
9 18	22 9.16	-11 3.2	1.907	2.850	8.5	21.3	9 18	22 11.38	- 2 23.3	2.232	3.183	7.0	19.4
9 28	22 3.55	-11 38.4	1.981	2.851	12.0	21.5	9 28	22 6.43	- 3 2.8	2.309	3.194	9.9	19.6
21083	1991 TH ₁₄		8 27.7 338°52'	2°8/25.6	18		218080	2002 GY ₁₀₁		8 27.7 211°27'	1°0/26.5	18	
7 20	22 40.48	-11 15.8	1.145	2.031	18.8	18.1	7 20	22 46.94	- 9 32.6	2.396	3.223	12.2	20.5
7 30	22 40.31	-12 6.5	1.065	2.009	14.7	17.8	7 30	22 43.51	-10 22.2	2.311	3.221	9.5	20.3
8 9	22 37.30	-13 16.0	1.004	1.987	9.9	17.4	8 9	22 38.41	-11 21.9	2.249	3.219	6.3	20.1
8 19	22 31.88	-14 38.1	0.962	1.968	4.8	17.1	8 19	22 32.06	-12 27.7	2.214	3.217	2.9	19.9
8 29	22 25.02	-16 2.1	0.943	1.950	3.5	17.0	8 29	22 25.03	-13 34.6	2.206	3.214	1.4	19.7
9 8	22 18.13	-17 16.1	0.947	1.934	8.5	17.2	9 8	22 18.07	-14 37.1	2.228	3.212	4.6	20.0
9 18	22 12.62	-18 10.3	0.971	1.919	14.0	17.4	9 18	22 11.87	-15 30.6	2.277	3.209	7.9	20.2
9 28	22 9.74	-18 38.6	1.014	1.907	18.8	17.7	9 28	22 7.07	-16 12.0	2.351	3.207	10.9	20.4
299921	2006 TM ₄		8 27.7 255°23'	2°2/25.9	18		445784	2011 YD ₅₇		8 27.7 293°33'	2°3/29.7	16	
7 20	22 55.13	-15 38.8	2.171	3.002	13.1	20.9	7 20	22 50.20	- 2 39.1	2.116	2.919	14.4	21.7
7 30	22 50.11	-15 49.5	2.080	2.992	10.3	20.7	7 30	22 46.32	- 2 26.2	2.021	2.909	11.7	21.5
8 9	22 43.01	-16 4.5	2.012	2.981	7.0	20.5	8 9	22 40.49	- 2 25.7	1.947	2.899	8.4	21.2
8 19	22 34.28	-16 20.0	1.969	2.970	3.5	20.3	8 19	22 33.11	- 2 36.8	1.897	2.889	4.9	21.0
8 29	22 24.70	-16 31.6	1.955	2.959	2.5	20.2	8 29	22 24.88	- 2 57.1	1.874	2.880	2.3	20.8
9 8	22 15.20	-16 35.5	1.968	2.948	5.6	20.4	9 8	22 16.66	- 3 23.0	1.879	2.870	4.4	20.9
9 18	22 6.68	-16 29.3	2.010	2.937	9.2	20.6	9 18	22 9.29	- 3 50.3	1.910	2.860	8.0	21.2
9 28	21 59.94	-16 11.7	2.076	2.925	12.4	20.8	9 28	22 3.55	- 4 14.8	1.967	2.851	11.4	21.3
44280	1998 QE ₇₇		8 27.7 358°24'	8°0/ 3.4	18		224266	2005 SH ₂₆₆		8 27.7 320°05'	1°1/28.5	18	
7 20	22 40.10	+ 8 36.4	1.221	2.034	22.3	17.4	7 20	22 53.45	- 7 0.3	1.477	2.314	17.9	20.3
7 30	22 39.65	+ 9 14.5	1.149	2.028	19.1	17.2	7 30	22 49.69	- 6 45.8	1.396	2.307	14.3	20.0
8 9	22 36.60	+ 9 22.0	1.093	2.024	15.5	17.0	8 9	22 43.22	- 6 44.3	1.334	2.301	10.0	19.8
8 19	22 31.43	+ 8 56.0	1.054	2.022	11.6	16.8	8 19	22 34.55	- 6 53.9	1.294	2.295	5.1	19.5
8 29	22 25.10	+ 7 57.2	1.035	2.022	8.6	16.6	8 29	22 24.68	- 7 10.6	1.280	2.289	1.2	19.2
9 8	22 18.86	+ 6 32.3	1.038	2.023	8.4	16.6	9 8	22 14.90	- 7 29.2	1.290	2.283	5.7	19.5
9 18	22 13.94	+ 4 52.1	1.063	2.026	11.2	16.8	9 18	22 6.47	- 7 44.7	1.326	2.278	10.6	19.8
9 28	22 11.37	+ 3 9.3	1.109	2.031	15.1	17.0	9 28	22 0.43	- 7 52.6	1.384	2.273	14.9	20.0
387944	2005 ER ₁₄₀		8 27.7 89°38'	0°8/28.4	16		391504	2007 RP ₂		8 27.7 343°50'	3°3/29.2	18	
7 20	22 57.02	- 6 59.8	2.016	2.825	14.8	21.8	7 20	22 53.58	- 6 31.7	1.284	2.130	19.6	19.8
7 30	22 51.32	- 6 51.4	1.954	2.849	11.7	21.6	7 30	22 50.28	- 5 20.4	1.201	2.115	15.9	19.5
8 9	22 43.61	- 6 52.9	1.912	2.872	8.0	21.5	8 9	22 43.91	- 4 18.2	1.137	2.102	11.5	19.2
8 19	22 34.45	- 7 2.1	1.896	2.895	4.0	21.3	8 19	22 34.99	- 3 26.1	1.093	2.090	6.6	18.9
8 29	22 24.70	- 7 15.8	1.909	2.918	0.9	21.1	8 29	22 24.60	- 2 43.9	1.073	2.079	3.3	18.7
9 8	22 15.29	- 7 30.0	1.950	2.940	4.4	21.4	9 8	22 14.23	- 2 10.1	1.077	2.070	6.5	18.8
9 18	22 7.08	- 7 41.5	2.018	2.962	8.1	21.6	9 18	22 5.34	- 1 42.2	1.105	2.063	11.6	19.1
9 28	22 0.75	- 7 47.6	2.112	2.984	11.3	21.9	9 28	21 59.18	- 1 16.5	1.154	2.057	16.2	19.4
141629	2002 JM ₄₃		8 27.7 43°23'	0°2/27.9	17		475901	2007 DU ₅₉		8 27.7 190°30'	0°6/27.0	18	
7 20	22 54.65	- 8 38.1	1.1										

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
119286	2001 <i>RD</i> ₁₀₉		8 27.7 61°17'	0°1'/27.8 17			145748	1995 <i>UP</i> ₅₀		8 27.8 255°57'	1°9'/26.2 18		
7 20	22 51.07	- 6 15.6	1.430	2.272	18.2	20.1	7 20	22 52.20	-11 21.6	1.704	2.546	15.7	21.0
7 30	22 47.61	- 6 46.9	1.371	2.286	14.3	19.9	7 30	22 48.51	-12 3.8	1.615	2.532	12.3	20.8
8 9	22 41.59	- 7 35.2	1.332	2.301	9.7	19.7	8 9	22 42.34	-12 58.6	1.546	2.518	8.3	20.5
8 19	22 33.65	- 8 35.6	1.315	2.317	4.6	19.4	8 19	22 34.14	-14 0.7	1.501	2.504	4.0	20.2
8 29	22 24.83	- 9 40.9	1.323	2.332	0.6	19.2	8 29	22 24.78	-15 3.2	1.482	2.489	2.4	20.1
9 8	22 16.35	-10 43.0	1.356	2.348	5.7	19.6	9 8	22 15.38	-15 58.5	1.490	2.473	6.5	20.3
9 18	22 9.32	-11 35.0	1.415	2.364	10.4	19.9	9 18	22 7.09	-16 40.5	1.524	2.458	11.0	20.6
9 28	22 4.59	-12 12.3	1.496	2.379	14.4	20.2	9 28	22 0.92	-17 5.5	1.580	2.442	14.9	20.8
117099	2004 <i>NB</i> ₂₇		8 27.7 292°27'	1°2'/26.5 18			56470	2000 <i>GH</i> ₁₀₆		8 27.8 151°32'	4°1'/30.9 18		
7 20	22 46.13	- 9 4.8	2.131	2.964	13.3	19.6	7 20	22 52.11	+ 2 4.3	1.437	2.246	19.7	19.5
7 30	22 43.22	- 9 59.6	2.036	2.949	10.4	19.4	7 30	22 48.65	+ 2 7.7	1.362	2.249	16.2	19.3
8 9	22 38.43	-11 7.1	1.963	2.934	7.0	19.1	8 9	22 42.51	+ 1 47.8	1.303	2.251	12.1	19.1
8 19	22 32.16	-12 23.2	1.916	2.919	3.2	18.9	8 19	22 34.22	+ 1 4.8	1.266	2.253	7.6	18.8
8 29	22 25.03	-13 41.8	1.896	2.904	1.6	18.7	8 29	22 24.78	+ 0 2.8	1.253	2.255	4.2	18.6
9 8	22 17.88	-14 56.3	1.904	2.889	5.2	18.9	9 8	22 15.47	- 1 10.8	1.265	2.257	6.0	18.8
9 18	22 11.52	-16 0.8	1.940	2.874	9.0	19.1	9 18	22 7.52	- 2 27.2	1.303	2.259	10.3	19.0
9 28	22 6.71	-16 51.0	1.999	2.859	12.3	19.3	9 28	22 1.94	- 3 37.6	1.363	2.260	14.6	19.3
522831	2016 <i>NU</i> ₈₂		8 27.7 58°06'	6°3'/ 1.8 18			454552	2014 <i>OU</i> ₃₈₅		8 27.8 268°27'	3°3'/31.1 17		
7 20	22 52.68	+ 6 3.6	1.698	2.472	18.5	20.2	7 20	22 48.46	+ 1 39.9	2.407	3.185	13.6	21.1
7 30	22 48.54	+ 6 51.3	1.629	2.486	15.6	20.0	7 30	22 44.70	+ 1 51.4	2.313	3.181	11.1	20.9
8 9	22 42.09	+ 7 18.5	1.578	2.500	12.2	19.8	8 9	22 39.25	+ 1 49.2	2.240	3.177	8.4	20.7
8 19	22 33.88	+ 7 23.8	1.549	2.514	8.9	19.7	8 19	22 32.50	+ 1 33.6	2.192	3.172	5.4	20.6
8 29	22 24.80	+ 7 7.9	1.544	2.528	6.5	19.6	8 29	22 25.05	+ 1 6.4	2.170	3.168	3.4	20.4
9 8	22 15.94	+ 6 34.8	1.565	2.543	6.9	19.6	9 8	22 17.63	+ 0 31.0	2.176	3.164	4.3	20.5
9 18	22 8.30	+ 5 50.2	1.610	2.558	9.5	19.8	9 18	22 10.95	- 0 8.5	2.210	3.159	7.1	20.6
9 28	22 2.73	+ 5 1.4	1.680	2.573	12.6	20.0	9 28	22 5.66	- 0 47.8	2.269	3.155	10.0	20.8
162112	1998 <i>RH</i> ₇₉		8 27.7 275°85'	7°3'/21.3 18			245399	2005 <i>GQ</i> ₁₇₈		8 27.8 3°82'	4°0'/23.9 18		
7 20	22 57.81	-28 41.9	2.050	2.892	13.4	20.0	7 20	22 50.19	-17 43.9	1.908	2.760	13.9	20.7
7 30	22 52.71	-29 37.1	1.959	2.867	11.0	19.8	7 30	22 46.53	-18 44.2	1.837	2.760	10.8	20.5
8 9	22 45.08	-30 30.1	1.891	2.842	8.7	19.6	8 9	22 40.72	-19 50.2	1.788	2.760	7.4	20.3
8 19	22 35.40	-31 13.1	1.848	2.817	7.3	19.5	8 19	22 33.25	-20 55.5	1.763	2.760	4.5	20.1
8 29	22 24.57	-31 38.5	1.831	2.792	7.9	19.5	8 29	22 24.95	-21 53.0	1.766	2.760	4.6	20.1
9 8	22 13.74	-31 41.0	1.840	2.766	10.1	19.6	9 8	22 16.79	-22 36.5	1.795	2.760	7.4	20.3
9 18	22 4.10	-31 18.9	1.874	2.740	12.9	19.7	9 18	22 9.73	-23 2.3	1.850	2.760	10.8	20.5
9 28	21 56.61	-30 33.7	1.929	2.714	15.6	19.8	9 28	22 4.56	-23 9.0	1.927	2.761	13.8	20.7
42050	2000 <i>YN</i> ₁₀₇		8 27.8 49°85'	3°1'/30.7 18			206057	2002 <i>QB</i> ₁₀₀		8 27.8 198°03'	1°5'/26.5 18		
7 20	22 49.88	+ 0 11.2	2.188	2.977	14.4	19.5	7 20	22 52.53	-12 20.0	1.977	2.811	14.1	20.9
7 30	22 45.90	+ 0 27.8	2.104	2.980	11.8	19.3	7 30	22 48.21	-12 41.6	1.897	2.811	11.0	20.7
8 9	22 40.08	+ 0 30.6	2.041	2.983	8.7	19.1	8 9	22 41.79	-13 11.1	1.839	2.810	7.4	20.5
8 19	22 32.87	+ 0 20.3	2.002	2.987	5.5	18.9	8 19	22 33.75	-13 44.6	1.806	2.809	3.5	20.3
8 29	22 24.95	- 0 1.3	1.990	2.990	3.2	18.8	8 29	22 24.89	-14 17.1	1.801	2.808	1.8	20.1
9 8	22 17.12	- 0 30.5	2.005	2.994	4.5	18.9	9 8	22 16.16	-14 43.5	1.823	2.807	5.5	20.4
9 18	22 10.17	- 1 3.2	2.048	2.998	7.6	19.1	9 18	22 8.49	-15 0.3	1.871	2.806	9.2	20.6
9 28	22 4.79	- 1 34.8	2.116	3.002	10.7	19.3	9 28	22 2.65	-15 5.1	1.944	2.804	12.6	20.8
195087	2002 <i>CB</i> ₁₁₂		8 27.8 158°48'	3°4'/31.7 17			137803	1999 <i>YR</i> ₁		8 27.8 289°80'	1°7'/29.0 18		
7 20	22 46.43	+ 6 11.4	1.833	2.612	17.1	19.5	7 20	22 50.04	- 3 34.5	1.506	2.337	18.0	20.1
7 30	22 43.65	+ 5 16.6	1.745	2.612	14.2	19.3	7 30	22 47.20	- 3 41.3	1.410	2.316	14.5	19.8
8 9	22 38.81	+ 3 55.1	1.676	2.613	10.7	19.1	8 9	22 41.71	- 4 6.7	1.332	2.295	10.4	19.5
8 19	22 32.35	+ 2 8.6	1.631	2.613	6.8	18.9	8 19	22 33.97	- 4 49.3	1.276	2.274	5.6	19.2
8 29	22 25.02	+ 0 2.9	1.612	2.613	3.7	18.7	8 29	22 24.83	- 5 44.7	1.245	2.253	1.7	18.9
9 8	22 17.74	- 2 13.0	1.621	2.614	4.9	18.7	9 8	22 15.52	- 6 45.8	1.239	2.232	5.7	19.1
9 18	22 11.44	- 4 28.5	1.659	2.614	8.6	19.0	9 18	22 7.31	- 7 44.6	1.257	2.212	10.8	19.3
9 28	22 6.91	- 6 33.8	1.722	2.614	12.4	19.2	9 28	22 1.37	- 8 33.9	1.298	2.191	15.5	19.5
353541	2011 <i>SE</i> ₁₇₅		8 27.8 314°86'	2°5'/25.7 18			130626	2000 <i>SO</i> ₄₉		8 27.8 6°25'	2°7'/29.7 18		
7 20	22 50.26	-14 16.1	1.769	2.619	14.9	20.7	7 20	22 50.77	- 1 51.3	1.317	2.150	19.9	19.8
7 30	22 46.80	-14 47.3	1.686	2.608	11.6	20.4	7 30	22 47.84	- 1 49.9	1.244	2.150	16.1	19.5
8 9	22 41.04	-15 26.7	1.624	2.598	7.8	20.2	8 9	22 42.08	- 2 9.8	1.189	2.150	11.6	19.2
8 19	22 33.44	-16 9.2	1.586	2.589	4.0	19.9	8 19	22 34.07	- 2 49.4	1.155	2.151	6.6	19.0
8 29	22 24.86	-16 48.7	1.575	2.579	3.0	19.8	8 29	22 24.84	- 3 43.9	1.144	2.151	2.7	18.7
9 8	22 16.36	-17 19.1	1.589	2.570	6.6	20.1	9 8	22 15.76	- 4 45.4	1.158	2.152	5.9	18.9
9 18	22 8.97	-17 36.2	1.629	2.561	10.6	20.3	9 18	22 8.13	- 5 45.3	1.196	2.153	10.9	19.2
9 28	22 3.57	-17 37.7	1.692	2.553	14.2	20.5	9 28	22 3.01	- 6 36.0	1.255	2.155	15.4	19.5
300861	2007 <i>YJ</i> ₅₁		8 27.8 105°64'	1°2'/26.6 18			298282	2002 <i>XL</i> ₉₈		8 27.8 310°84'	3°7'/24.5 18		
7 20	22 49.11	-10 24.2	2.036	2.870	13.8	21.0	7 20	22 48.61	-16 2.7	1.728	2.585	14.8	20.6
7 30	22 45.48	-11 1.7	1.958	2.871	10.7	20.8	7 30	22 45.69	-16 55.4	1.642	2.569	11.6	20.3
8 9	22 39.89	-11 49.2	1.901	2.872	7.2	20.6	8 9	22 40.41	-17 56.8	1.577	2.553	7.9	20.1
8 19	22 32.82	-12 42.7	1.870	2.873	3.3	20.4	8 19	22 33.22	-19 0.7	1.537	2.537	4.5	19.8
8 29	22 24.98	-13 36.6	1.866	2.874	1.6	20.3	8 29	22 24.96	-19 59.3	1.522	2.521	4.3	19.8
9 8	22 17.26	-14 25.2	1.890	2.875	5.2	20.5	9 8	22 16.70	-20 45.5	1.533	2.506	7.6	20.0
9 18	22 10.50	-15 4.1	1.940	2.876	8.9	20.7	9 18	22 9.52	-21 14.0	1.568	2.491	11.6	20.2
9 28	22 5.43	-15 30.1	2.015	2.877	12.2	20.9	9 28	22 4.36	-21 22.6	1.626	2.476	15.2	20.4
37163	Huachucaclub		8 27.8 19°96'	0°2'/27.9 18 R			71473	2000 <i>BG</i> ₁₆		8 27.8 213°40			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
12311	Ingemyr		8 27.8 296°08	3°6/24.8	18		284593	2007 TG ₂₄₁		8 27.8 349°82	4°3/31.6	18	
7 20	22 50.86	-16 6.4	1.725	2.579	15.0	18.5	7 20	22 45.93	+ 3 13.5	1.606	2.411	18.1	20.5
7 30	22 47.53	-16 50.7	1.633	2.558	11.8	18.2	7 30	22 43.59	+ 3 17.3	1.524	2.407	15.0	20.3
8 9	22 41.72	-17 43.5	1.562	2.537	8.1	18.0	8 9	22 38.97	+ 2 58.9	1.460	2.403	11.4	20.0
8 19	22 33.88	-18 38.7	1.515	2.516	4.5	17.7	8 19	22 32.53	+ 2 18.3	1.417	2.400	7.4	19.8
8 29	22 24.86	-19 28.9	1.495	2.495	4.1	17.6	8 29	22 25.10	+ 1 18.7	1.398	2.398	4.5	19.6
9 8	22 15.78	-20 7.1	1.500	2.474	7.6	17.8	9 8	22 17.72	+ 0 6.5	1.405	2.396	5.6	19.7
9 18	22 7.79	-20 28.3	1.529	2.454	11.7	18.0	9 18	22 11.43	- 1 10.4	1.436	2.394	9.4	19.9
9 28	22 1.89	-20 30.1	1.581	2.433	15.5	18.2	9 28	22 7.12	- 2 23.7	1.491	2.394	13.2	20.1
181490	2006 TK ₁₁₀		8 27.8 109°77	4°1/31.2	18		180690	2004 HG ₁₅		8 27.8 257°30	0°1/27.8	18	
7 20	22 51.81	+ 2 32.3	1.616	2.413	18.4	20.5	7 20	22 49.64	- 7 30.6	2.084	2.907	13.9	21.2
7 30	22 48.05	+ 2 38.4	1.542	2.421	15.1	20.3	7 30	22 45.89	- 7 50.1	1.998	2.903	11.0	21.0
8 9	22 41.89	+ 2 23.3	1.487	2.429	11.3	20.1	8 9	22 40.21	- 8 20.8	1.933	2.899	7.5	20.8
8 19	22 33.86	+ 1 47.6	1.453	2.437	7.2	19.9	8 19	22 33.02	- 8 59.8	1.894	2.895	3.6	20.5
8 29	22 24.88	+ 0 54.5	1.444	2.444	4.3	19.7	8 29	22 25.04	- 9 42.7	1.881	2.891	0.5	20.3
9 8	22 16.07	- 0 9.5	1.461	2.451	5.6	19.8	9 8	22 17.12	-10 24.5	1.897	2.887	4.5	20.6
9 18	22 8.50	- 1 17.0	1.504	2.458	9.4	20.1	9 18	22 10.12	-11 0.7	1.939	2.883	8.4	20.8
9 28	22 3.04	- 2 20.4	1.570	2.465	13.2	20.3	9 28	22 4.77	-11 27.5	2.006	2.879	11.8	21.0
27414	2000 EY ₁₃₉		8 27.8 69°62	5°0/22.9	18		33653	1999 JR ₈₄		8 27.8 169°90	3°4/31.4	18	
7 20	22 50.38	-19 48.2	1.850	2.706	14.1	17.8	7 20	22 49.04	+ 4 15.2	2.019	2.795	15.9	18.5
7 30	22 46.68	-21 2.3	1.791	2.716	10.9	17.6	7 30	22 45.48	+ 3 49.0	1.932	2.798	13.1	18.3
8 9	22 40.79	-22 20.2	1.755	2.726	7.7	17.4	8 9	22 39.96	+ 3 1.9	1.864	2.800	9.8	18.1
8 19	22 33.27	-23 34.5	1.744	2.737	5.2	17.3	8 19	22 32.91	+ 1 55.3	1.820	2.802	6.3	17.9
8 29	22 24.97	-24 37.4	1.760	2.747	5.6	17.4	8 29	22 25.06	+ 0 32.9	1.803	2.803	3.6	17.8
9 8	22 16.93	-25 22.8	1.802	2.757	8.2	17.6	9 8	22 17.27	- 0 58.7	1.814	2.804	4.7	17.8
9 18	22 10.08	-25 47.6	1.868	2.768	11.3	17.8	9 18	22 10.41	- 2 32.1	1.853	2.805	8.1	18.0
9 28	22 5.18	-25 51.5	1.957	2.778	14.1	18.0	9 28	22 5.21	- 3 59.9	1.917	2.805	11.5	18.3
6298	Sawaoka		8 27.8 290°62	1°1/26.7	18		444701	2007 EZ ₈₁		8 27.8 204°20	1°2/29.2	18	
7 20	22 49.70	-11 14.3	2.278	3.107	12.7	18.7	7 20	22 46.68	- 2 30.2	2.530	3.328	12.4	21.7
7 30	22 45.97	-11 38.2	2.169	3.080	10.0	18.5	7 30	22 43.24	- 3 2.7	2.438	3.326	9.9	21.5
8 9	22 40.32	-12 10.7	2.083	3.053	6.8	18.2	8 9	22 38.22	- 3 48.3	2.369	3.323	7.0	21.3
8 19	22 33.11	-12 48.7	2.022	3.025	3.2	18.0	8 19	22 32.02	- 4 44.8	2.325	3.321	3.8	21.1
8 29	22 24.98	-13 27.8	1.990	2.998	1.5	17.8	8 29	22 25.19	- 5 48.4	2.309	3.318	1.2	20.9
9 8	22 16.74	-14 3.1	1.985	2.970	5.0	18.0	9 8	22 18.39	- 6 54.3	2.323	3.315	3.6	21.1
9 18	22 9.23	-14 30.5	2.007	2.942	8.7	18.1	9 18	22 12.29	- 7 57.6	2.364	3.311	6.9	21.3
9 28	22 3.24	-14 47.0	2.054	2.914	12.1	18.3	9 28	22 7.48	- 8 54.0	2.433	3.308	9.9	21.5
379257	2009 UR ₂		8 27.8 253°90	4°5/23.9	18		445527	2011 AL ₁₃		8 27.8 241°92	2°6/30.6	17	
7 20	22 52.13	-17 32.2	1.693	2.548	15.2	20.7	7 20	22 50.42	+ 0 5.1	2.893	3.663	11.7	21.4
7 30	22 48.46	-18 36.1	1.615	2.539	11.9	20.5	7 30	22 45.97	+ 0 18.7	2.784	3.649	9.6	21.3
8 9	22 42.29	-19 47.8	1.558	2.531	8.2	20.3	8 9	22 40.01	+ 0 21.7	2.698	3.634	7.1	21.1
8 19	22 34.11	-20 59.9	1.525	2.522	5.0	20.0	8 19	22 32.88	+ 0 14.7	2.637	3.620	4.5	20.9
8 29	22 24.85	-22 3.8	1.518	2.513	5.1	20.0	8 29	22 25.07	- 0 1.0	2.605	3.605	2.6	20.7
9 8	22 15.65	-22 51.8	1.538	2.504	8.3	20.2	9 8	22 17.22	- 0 23.0	2.602	3.589	3.7	20.8
9 18	22 7.68	-23 19.4	1.582	2.495	12.1	20.4	9 18	22 9.97	- 0 48.2	2.628	3.573	6.4	21.0
9 28	22 1.88	-23 25.1	1.647	2.485	15.6	20.6	9 28	22 3.89	- 1 13.4	2.681	3.557	9.0	21.1
104431	2000 FP ₆₄		8 27.8 81°46	1°9/29.2	17		387902	2004 VZ ₈₂		8 27.8 280°38	1°3/26.7	18	
7 20	22 55.17	- 4 2.6	1.584	2.403	17.7	20.1	7 20	22 50.90	-10 31.0	1.782	2.622	15.2	22.3
7 30	22 50.55	- 3 55.1	1.520	2.419	14.1	19.9	7 30	22 47.41	-11 1.1	1.688	2.604	12.0	22.0
8 9	22 43.47	- 4 3.0	1.476	2.436	9.9	19.7	8 9	22 41.57	-11 43.0	1.615	2.586	8.1	21.8
8 19	22 34.56	- 4 24.1	1.456	2.452	5.4	19.5	8 19	22 33.81	-12 32.7	1.565	2.568	3.8	21.5
8 29	22 24.80	- 4 54.4	1.460	2.468	1.9	19.3	8 29	22 24.93	-13 24.3	1.542	2.550	1.7	21.3
9 8	22 15.39	- 5 28.2	1.492	2.485	5.1	19.6	9 8	22 15.98	-14 11.0	1.546	2.532	5.9	21.5
9 18	22 7.37	- 6 0.0	1.549	2.501	9.4	19.9	9 18	22 8.05	-14 47.3	1.575	2.514	10.3	21.7
9 28	22 1.60	- 6 25.2	1.630	2.516	13.3	20.1	9 28	22 2.10	-15 9.2	1.627	2.495	14.3	22.0
338478	2003 GS ₅₃		8 27.8 175°00	8°7/ 5.3	16		6246	Komurotoru		8 27.8 254°93	12°4/12.9	18	R
7 20	22 49.34	+16 46.2	1.321	2.067	24.1	21.0	7 20	23 4.28	-44 9.8	2.064	2.874	14.5	18.0
7 30	22 46.88	+16 24.9	1.240	2.068	21.1	20.8	7 30	22 58.52	-45 58.0	1.998	2.852	13.2	17.8
8 9	22 41.56	+15 21.3	1.172	2.070	17.4	20.5	8 9	22 49.47	-47 34.3	1.953	2.828	12.5	17.8
8 19	22 33.88	+13 31.4	1.122	2.071	13.3	20.3	8 19	22 37.69	-48 47.6	1.930	2.804	12.6	17.7
8 29	22 24.87	+10 57.3	1.094	2.071	9.8	20.1	8 29	22 24.38	-49 28.4	1.930	2.780	13.5	17.7
9 8	22 15.93	+ 7 49.9	1.091	2.071	8.9	20.1	9 8	22 11.16	-49 31.8	1.951	2.754	15.1	17.8
9 18	22 8.41	+ 4 26.6	1.113	2.070	11.5	20.2	9 18	21 59.62	-48 58.2	1.992	2.728	16.9	17.9
9 28	22 3.47	+ 1 7.3	1.160	2.069	15.6	20.5	9 28	21 51.01	-47 52.3	2.048	2.701	18.6	18.0
140773	2001 UY ₁₂₈		8 27.8 35°59	7°5/22.6	18		382516	2001 SE ₁₂₃		8 27.8 357°77	2°9/29.5	18	
7 20	22 57.42	-28 11.8	1.672	2.526	15.4	19.3	7 20	22 46.86	- 4 2.7	1.112	1.972	21.1	19.8
7 30	22 52.40	-28 54.4	1.619	2.536	12.4	19.1	7 30	22 45.22	- 3 33.5	1.045	1.967	17.0	19.6
8 9	22 44.72	-29 31.9	1.588	2.545	9.5	19.0	8 9	22 40.55	- 3 23.5	0.994	1.963	12.2	19.3
8 19	22 35.12	-29 56.6	1.580	2.556	7.7	18.9	8 19	22 33.43	- 3 31.9	0.963	1.961	6.9	19.0
8 29	22 24.73	-30 1.5	1.596	2.566	8.0	18.9	8 29	22 24.99	- 3 55.0	0.953	1.961	2.9	18.8
9 8	22 14.87	-29 43.3	1.638	2.577	10.2	19.1	9 8	22 16.72	- 4 26.0	0.966	1.962	6.4	19.0
9 18	22 6.64	-29 2.2	1.704	2.588	13.0	19.3	9 18	22 10.06	- 4 57.5	1.001	1.964	11.7	19.3
9 28	22 0.86	-28 1.4	1.790	2.600	15.7	19.5	9 28	22 6.14	- 5 22.2	1.055	1.968	16.5	19.6
365036	2008 SR ₁₇₇		8 27.8 337°76	0°6/27.6	18		510921	2013 EJ ₁₈		8 27.8 201°12	0°6/28.3	18	
7 20	22 55.57	-14 33.4	1.145	2.014</									

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
314526	2005 YW ₁₆		8 27.8 191°66	1°3/26.2	18		500826	2013 GP ₁₃₀		8 27.8 51°87	5°7/31.6	17	
7 20	22 47.84	-11 21.6	2.642	3.468	11.2	21.6	7 20	22 52.50	+ 2 59.6	1.188	2.008	22.4	20.3
7 30	22 44.06	-12 2.8	2.558	3.467	8.7	21.4	7 30	22 49.31	+ 3 32.9	1.128	2.020	18.5	20.0
8 9	22 38.74	-12 51.5	2.496	3.465	5.8	21.2	8 9	22 43.13	+ 3 40.4	1.085	2.032	14.0	19.8
8 19	22 32.26	-13 44.3	2.462	3.464	2.7	21.0	8 19	22 34.59	+ 3 21.2	1.061	2.044	9.3	19.6
8 29	22 25.17	-14 36.7	2.456	3.462	1.6	21.0	8 29	22 24.90	+ 2 38.3	1.059	2.057	5.9	19.5
9 8	22 18.16	-15 24.4	2.478	3.460	4.4	21.2	9 8	22 15.55	+ 1 39.2	1.080	2.070	7.1	19.6
9 18	22 11.85	-16 3.7	2.529	3.458	7.4	21.3	9 18	22 7.89	+ 0 33.3	1.125	2.084	11.2	19.8
9 28	22 6.83	-16 32.1	2.606	3.456	10.1	21.5	9 28	22 2.96	- 0 29.6	1.191	2.098	15.5	20.1
340549	2006 KU ₃₄		8 27.8 199°66	1°4/29.3	18		514825	2007 WW ₆₁		8 27.8 334°13	7°4/ 3.4	18	
7 20	22 50.88	- 2 38.8	2.417	3.210	13.1	22.6	7 20	22 48.50	+10 15.4	1.853	2.604	17.9	20.8
7 30	22 46.59	- 2 59.1	2.322	3.206	10.5	22.4	7 30	22 45.38	+10 56.9	1.765	2.600	15.5	20.7
8 9	22 40.56	- 3 32.5	2.249	3.202	7.4	22.2	8 9	22 40.09	+11 16.8	1.694	2.596	12.7	20.5
8 19	22 33.17	- 4 17.0	2.202	3.196	4.1	22.0	8 19	22 33.09	+11 12.5	1.644	2.593	9.8	20.3
8 29	22 25.05	- 5 9.2	2.183	3.191	1.4	21.8	8 29	22 25.11	+10 44.0	1.618	2.589	7.7	20.2
9 8	22 16.95	- 6 4.3	2.193	3.184	3.9	22.0	9 8	22 17.13	+ 9 54.5	1.616	2.586	7.6	20.2
9 18	22 9.62	- 6 57.7	2.231	3.177	7.3	22.2	9 18	22 10.11	+ 8 49.7	1.639	2.583	9.6	20.3
9 28	22 3.72	- 7 45.0	2.296	3.169	10.4	22.4	9 28	22 4.92	+ 7 37.5	1.687	2.581	12.5	20.4
105560	2000 RA ₅₆		8 27.8 315°78	0°6/28.4	18		16721	1995 WF ₃		8 27.8 214°16	5°2/22.1	18	R
7 20	22 47.87	- 5 47.4	1.949	2.774	14.7	19.8	7 20	22 54.16	-23 57.5	2.382	3.222	11.9	19.5
7 30	22 44.71	- 6 5.0	1.860	2.765	11.6	19.6	7 30	22 49.34	-25 1.0	2.302	3.214	9.4	19.4
8 9	22 39.52	- 6 36.0	1.793	2.757	8.1	19.3	8 9	22 42.52	-26 5.3	2.245	3.205	7.0	19.2
8 19	22 32.75	- 7 17.7	1.749	2.749	4.0	19.1	8 19	22 34.15	-27 4.3	2.215	3.196	5.4	19.1
8 29	22 25.11	- 8 5.8	1.732	2.742	0.7	18.8	8 29	22 24.97	-27 51.7	2.213	3.187	5.8	19.1
9 8	22 17.51	- 8 54.7	1.742	2.734	4.6	19.1	9 8	22 15.86	-28 22.7	2.238	3.176	7.9	19.2
9 18	22 10.83	- 9 39.0	1.779	2.727	8.6	19.3	9 18	22 7.68	-28 34.8	2.289	3.165	10.5	19.4
9 28	22 5.86	-10 14.3	1.839	2.720	12.3	19.5	9 28	22 1.20	-28 28.0	2.363	3.153	13.0	19.5
426397	2013 PR ₃₄		8 27.8 64°09	2°2/29.6	17		508554	2016 UP ₄₇		8 27.8 291°73	0°6/27.3	18	
7 20	22 49.76	- 0 43.3	1.352	2.181	19.7	21.2	7 20	22 53.50	-10 32.7	1.874	2.705	14.9	20.7
7 30	22 46.84	- 1 10.1	1.288	2.191	15.8	21.0	7 30	22 49.12	-10 37.6	1.792	2.703	11.7	20.4
8 9	22 41.27	- 2 0.7	1.242	2.202	11.3	20.8	8 9	22 42.51	-10 51.3	1.732	2.701	7.9	20.2
8 19	22 33.64	- 3 11.9	1.217	2.213	6.2	20.5	8 19	22 34.19	-11 10.6	1.697	2.699	3.7	20.0
8 29	22 25.00	- 4 36.7	1.216	2.224	2.2	20.3	8 29	22 24.97	-11 31.2	1.688	2.697	1.0	19.7
9 8	22 16.62	- 6 5.5	1.241	2.235	5.6	20.6	9 8	22 15.89	-11 48.5	1.707	2.696	5.2	20.0
9 18	22 9.68	- 7 28.5	1.290	2.246	10.4	20.9	9 18	22 7.93	-11 58.8	1.752	2.694	9.3	20.3
9 28	22 5.13	- 8 38.0	1.362	2.258	14.7	21.2	9 28	22 1.90	-11 59.5	1.821	2.692	12.9	20.5
401611	2013 GO ₃₄		8 27.8 35°38	7°1/19.7	18		128725	2004 RL ₁₄₀		8 27.8 311°05	2°4/25.4	18	
7 20	22 49.33	-27 15.5	2.083	2.940	12.7	20.1	7 20	22 47.12	-13 24.6	2.016	2.862	13.4	19.7
7 30	22 45.84	-28 48.8	2.025	2.942	10.2	19.9	7 30	22 44.15	-14 12.4	1.926	2.847	10.5	19.5
8 9	22 40.25	-30 20.6	1.990	2.945	8.1	19.8	8 9	22 39.18	-15 9.5	1.859	2.833	7.0	19.2
8 19	22 33.06	-31 43.0	1.981	2.948	7.1	19.8	8 19	22 32.63	-16 11.1	1.816	2.818	3.6	19.0
8 29	22 25.08	-32 48.2	1.997	2.951	7.8	19.8	8 29	22 25.18	-17 10.8	1.800	2.804	2.8	18.9
9 8	22 17.26	-33 31.1	2.039	2.954	9.8	19.9	9 8	22 17.74	-18 2.5	1.812	2.790	6.1	19.1
9 18	22 10.52	-33 49.6	2.104	2.958	12.2	20.1	9 18	22 11.19	-18 41.3	1.849	2.777	9.8	19.3
9 28	22 5.62	-33 44.3	2.190	2.961	14.4	20.3	9 28	22 6.32	-19 4.2	1.909	2.763	13.1	19.5
508846	2002 CG ₁₅₀		8 27.8 89°65	0°1/27.7	18		428512	2007 YN ₄₁		8 27.8 298°64	1°7/26.6	18	
7 20	22 54.58	- 9 41.5	2.317	3.130	13.0	21.1	7 20	22 49.93	-10 2.5	1.335	2.193	18.3	21.5
7 30	22 49.29	- 9 39.3	2.248	3.148	10.1	20.9	7 30	22 47.64	-10 38.1	1.238	2.165	14.5	21.2
8 9	22 42.22	- 9 44.3	2.202	3.166	6.8	20.7	8 9	22 42.37	-11 31.3	1.161	2.137	10.0	20.8
8 19	22 33.88	- 9 53.9	2.183	3.184	3.2	20.5	8 19	22 34.49	-12 37.5	1.104	2.109	4.8	20.4
8 29	22 24.99	-10 5.1	2.191	3.201	0.5	20.3	8 29	22 24.90	-13 48.6	1.072	2.080	2.3	20.2
9 8	22 16.35	-10 14.6	2.229	3.218	4.1	20.7	9 8	22 15.01	-14 54.4	1.064	2.052	7.6	20.4
9 18	22 8.71	-10 19.8	2.295	3.235	7.5	20.9	9 18	22 6.32	-15 46.0	1.079	2.024	13.2	20.7
9 28	22 2.68	-10 18.8	2.387	3.252	10.4	21.1	9 28	22 0.23	-16 17.1	1.114	1.997	18.3	20.9
298220	2002 UF ₆		8 27.8 297°85	7°6/20.5	18		112930	2002 QW ₆₇		8 27.8 127°01	1°9/29.6	18	
7 20	22 52.19	-26 41.7	1.815	2.674	14.2	19.9	7 20	22 52.99	- 2 24.7	2.260	3.052	13.9	20.7
7 30	22 48.67	-27 58.9	1.729	2.649	11.5	19.7	7 30	22 48.20	- 2 25.6	2.184	3.066	11.2	20.5
8 9	22 42.57	-29 17.1	1.666	2.625	9.0	19.5	8 9	22 41.59	- 2 39.1	2.129	3.079	7.9	20.3
8 19	22 34.35	-30 27.4	1.626	2.600	7.7	19.4	8 19	22 33.65	- 3 3.4	2.100	3.092	4.5	20.2
8 29	22 24.89	-31 20.7	1.611	2.575	8.5	19.4	8 29	22 25.07	- 3 35.6	2.098	3.104	1.9	20.0
9 8	22 15.39	-31 49.9	1.621	2.551	10.9	19.5	9 8	22 16.66	- 4 11.7	2.125	3.116	4.0	20.2
9 18	22 7.05	-31 51.8	1.654	2.527	14.0	19.6	9 18	22 9.19	- 4 47.3	2.180	3.127	7.4	20.4
9 28	22 0.92	-31 27.0	1.707	2.503	17.0	19.8	9 28	22 3.29	- 5 18.7	2.261	3.138	10.4	20.6
270138	2001 RE ₁₃₉		8 27.8 321°43	0°8/28.5	17		341143	2007 PM ₁₄		8 27.8 63°78	1°7/28.9	18	
7 20	22 46.72	- 3 33.0	1.462	2.300	18.0	21.2	7 20	22 56.64	- 6 7.8	1.754	2.570	16.4	20.1
7 30	22 44.50	- 4 10.1	1.380	2.292	14.4	20.9	7 30	22 51.65	- 5 39.1	1.676	2.574	13.1	19.8
8 9	22 39.78	- 5 8.8	1.317	2.284	10.0	20.6	8 9	22 44.26	- 5 21.2	1.619	2.578	9.2	19.6
8 19	22 33.01	- 6 25.6	1.276	2.277	5.1	20.3	8 19	22 35.04	- 5 13.0	1.585	2.582	4.9	19.4
8 29	22 25.09	- 7 53.6	1.260	2.269	0.9	20.0	8 29	22 24.88	- 5 11.8	1.578	2.586	1.7	19.2
9 8	22 17.20	- 9 23.2	1.269	2.263	5.7	20.3	9 8	22 14.92	- 5 14.3	1.598	2.590	5.0	19.4
9 18	22 10.50	-10 45.2	1.303	2.256	10.6	20.6	9 18	22 6.21	- 5 16.8	1.645	2.594	9.2	19.7
9 28	22 6.01	-11 51.9	1.359	2.250	15.1	20.9	9 28	21 59.61	- 5 16.0	1.717	2.599	12.9	19.9
250271	2003 FO ₄₅		8 27.8 45°49	0°4/27.4	18		439744	2015 FA ₂₉₇		8 27.8 104°85	3°2/31.3	18	
7 20	22 50.45	- 9											

EPHEMERIDES

8 27.8

8 27.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
20266	Danielchoi		8 27.8 203°47	0°3/27.5	18		340355	2006 <i>DM</i> ₉₁		8 27.8 241°08	0°2/27.6	18	R
7 20	22 52.03	- 6 55.4	1.633	2.465	16.7	18.6	7 20	22 50.81	- 7 29.1	1.978	2.802	14.5	21.7
7 30	22 48.37	- 7 34.4	1.553	2.463	13.2	18.4	7 30	22 47.05	- 8 0.2	1.886	2.792	11.5	21.5
8 9	22 42.24	- 8 29.8	1.492	2.461	9.0	18.1	8 9	22 41.18	- 8 44.3	1.815	2.781	7.8	21.3
8 19	22 34.16	- 9 37.1	1.455	2.458	4.3	17.8	8 19	22 33.64	- 9 38.1	1.769	2.771	3.7	21.0
8 29	22 25.01	-10 49.4	1.445	2.454	0.8	17.6	8 29	22 25.15	-10 36.2	1.750	2.760	0.7	20.7
9 8	22 15.93	-11 58.8	1.461	2.451	5.7	17.9	9 8	22 16.65	-11 32.6	1.759	2.748	5.0	21.0
9 18	22 8.05	-12 58.3	1.503	2.447	10.3	18.2	9 18	22 9.09	-12 21.7	1.795	2.737	9.1	21.3
9 28	22 2.31	-13 42.6	1.568	2.442	14.4	18.4	9 28	22 3.28	-12 59.2	1.855	2.725	12.7	21.5
15216	1981 <i>EX</i> ₁₄		8 27.8 60°46	3°8/31.6	18		349356	2007 <i>VJ</i> ₁₄₆		8 27.8 248°20	0°1/27.7	18	
7 20	22 47.93	+ 3 40.5	1.868	2.655	16.6	19.7	7 20	22 51.09	- 8 17.5	2.056	2.879	14.1	21.8
7 30	22 44.71	+ 3 33.2	1.793	2.666	13.6	19.5	7 30	22 47.12	- 8 33.0	1.968	2.873	11.1	21.6
8 9	22 39.48	+ 3 5.7	1.738	2.676	10.2	19.3	8 9	22 41.13	- 8 59.1	1.901	2.867	7.6	21.3
8 19	22 32.73	+ 2 19.1	1.706	2.687	6.7	19.1	8 19	22 33.58	- 9 32.8	1.860	2.861	3.6	21.1
8 29	22 25.22	+ 1 16.9	1.699	2.698	4.0	19.0	8 29	22 25.17	-10 10.0	1.845	2.855	0.5	20.8
9 8	22 17.87	+ 0 4.9	1.719	2.708	5.0	19.1	9 8	22 16.82	-10 45.5	1.859	2.848	4.7	21.1
9 18	22 11.53	- 1 9.8	1.765	2.719	8.2	19.3	9 18	22 9.41	-11 15.2	1.899	2.842	8.6	21.3
9 28	22 6.95	- 2 20.4	1.836	2.731	11.6	19.5	9 28	22 3.69	-11 35.5	1.964	2.835	12.0	21.6
41481	Musashifuchu		8 27.8 315°86	4°5/30.9	18		376148	2011 <i>BM</i> ₃₁		8 27.8 231°27	2°1/26.1	17	
7 20	22 46.67	+ 1 44.9	1.250	2.081	20.9	18.5	7 20	22 53.12	-12 15.5	1.688	2.531	15.8	21.0
7 30	22 45.00	+ 1 55.2	1.165	2.066	17.4	18.2	7 30	22 49.20	-12 54.4	1.607	2.526	12.3	20.8
8 9	22 40.48	+ 1 39.8	1.096	2.051	13.1	17.9	8 9	22 42.81	-13 44.1	1.547	2.520	8.3	20.5
8 19	22 33.53	+ 0 57.8	1.047	2.037	8.3	17.6	8 19	22 34.47	-14 39.4	1.511	2.514	4.0	20.3
8 29	22 25.10	- 0 7.8	1.020	2.023	4.6	17.4	8 29	22 25.05	-15 33.4	1.501	2.508	2.5	20.2
9 8	22 16.57	- 1 28.9	1.016	2.010	6.6	17.4	9 8	22 15.72	-16 19.0	1.518	2.501	6.5	20.4
9 18	22 9.34	- 2 55.2	1.035	1.998	11.5	17.7	9 18	22 7.59	-16 51.0	1.561	2.494	10.8	20.6
9 28	22 4.66	- 4 15.5	1.075	1.986	16.4	17.9	9 28	22 1.59	-17 6.4	1.626	2.487	14.6	20.9
362831	2012 <i>AF</i> ₁₇		8 27.8 160°07	4°0/31.9	18		432692	2011 <i>BG</i> ₈₀		8 27.8 211°42	0°4/27.4	17	
7 20	22 50.74	+ 4 1.2	2.606	3.362	13.2	20.6	7 20	22 52.29	- 7 42.5	1.884	2.709	15.1	22.1
7 30	22 46.33	+ 4 26.1	2.515	3.365	11.0	20.4	7 30	22 48.28	- 8 18.7	1.797	2.703	11.9	21.9
8 9	22 40.31	+ 4 37.7	2.446	3.367	8.4	20.3	8 9	22 42.05	- 9 8.5	1.731	2.698	8.1	21.6
8 19	22 33.07	+ 4 35.8	2.401	3.370	5.9	20.1	8 19	22 34.07	-10 7.9	1.690	2.692	3.8	21.3
8 29	22 25.20	+ 4 21.5	2.383	3.372	4.1	20.0	8 29	22 25.11	-11 11.3	1.676	2.685	0.8	21.1
9 8	22 17.37	+ 3 57.3	2.393	3.374	4.6	20.0	9 8	22 16.20	-12 11.9	1.690	2.678	5.2	21.4
9 18	22 10.27	+ 3 26.6	2.431	3.376	6.9	20.2	9 18	22 8.30	-13 3.7	1.730	2.671	9.4	21.6
9 28	22 4.50	+ 2 53.6	2.496	3.377	9.4	20.4	9 28	22 2.29	-13 42.5	1.795	2.662	13.2	21.9
34390	2000 <i>RJ</i> ₆₆		8 27.8 84°64	3°1/30.9	18		133998	2004 <i>VE</i> ₇		8 27.8 327°04	0°9/27.2	18	
7 20	22 48.38	+ 3 12.2	1.745	2.540	17.3	17.9	7 20	22 46.65	- 7 50.2	1.130	1.999	20.1	20.0
7 30	22 45.20	+ 2 36.0	1.673	2.552	14.1	17.8	7 30	22 45.25	- 8 25.1	1.054	1.987	16.0	19.7
8 9	22 39.88	+ 1 36.9	1.620	2.565	10.4	17.6	8 9	22 40.78	- 9 21.2	0.996	1.975	10.9	19.4
8 19	22 32.95	+ 0 17.3	1.590	2.577	6.3	17.3	8 19	22 33.72	-10 33.6	0.959	1.963	5.2	19.0
8 29	22 25.22	- 1 17.4	1.586	2.590	3.2	17.2	8 29	22 25.15	-11 53.2	0.944	1.953	1.5	18.7
9 8	22 17.67	- 2 59.0	1.610	2.602	4.8	17.3	9 8	22 16.60	-13 8.3	0.951	1.943	7.4	19.1
9 18	22 11.22	- 4 38.7	1.660	2.615	8.6	17.6	9 18	22 9.57	-14 9.0	0.981	1.934	13.2	19.4
9 28	22 6.65	- 6 8.7	1.735	2.627	12.3	17.8	9 28	22 5.33	-14 48.4	1.029	1.926	18.2	19.6
510615	2012 <i>TD</i> ₁₀₄		8 27.8 172°38	1°9/29.5	17		153250	2001 <i>BL</i> ₂₁		8 27.8 243°10	0°2/28.0	18	
7 20	22 51.17	- 2 27.6	1.959	2.765	15.3	22.0	7 20	22 46.57	- 5 38.9	2.388	3.203	12.6	19.9
7 30	22 47.21	- 2 34.9	1.876	2.766	12.3	21.8	7 30	22 43.31	- 6 19.5	2.299	3.199	9.9	19.7
8 9	22 41.19	- 2 57.1	1.813	2.767	8.8	21.6	8 9	22 38.40	- 7 12.3	2.233	3.196	6.8	19.5
8 19	22 33.58	- 3 32.4	1.774	2.768	4.9	21.4	8 19	22 32.22	- 8 14.5	2.192	3.192	3.3	19.2
8 29	22 25.13	- 4 17.2	1.761	2.769	1.9	21.2	8 29	22 25.38	- 9 21.3	2.179	3.189	0.4	19.0
9 8	22 16.77	- 5 6.2	1.777	2.769	4.5	21.4	9 8	22 18.57	-10 27.6	2.195	3.185	4.0	19.3
9 18	22 9.39	- 5 54.0	1.819	2.769	8.3	21.6	9 18	22 12.50	-11 28.2	2.239	3.181	7.5	19.5
9 28	22 3.78	- 6 35.7	1.886	2.769	11.9	21.8	9 28	22 7.80	-12 19.1	2.308	3.178	10.5	19.7
12216	1981 <i>WF</i> ₉		8 27.8 348°69	4°6/31.3	18		319042	2005 <i>VU</i> ₇₅		8 27.8 279°61	2°5/25.6	18	
7 20	22 45.19	+ 2 18.7	1.214	2.047	21.3	17.6	7 20	22 51.86	-15 43.2	2.184	3.022	12.9	20.9
7 30	22 43.76	+ 2 26.8	1.139	2.041	17.6	17.4	7 30	22 47.65	-16 7.4	2.096	3.012	10.0	20.6
8 9	22 39.54	+ 2 7.9	1.081	2.036	13.2	17.1	8 9	22 41.46	-16 36.6	2.030	3.001	6.8	20.4
8 19	22 33.01	+ 1 21.7	1.042	2.031	8.5	16.8	8 19	22 33.73	-17 6.9	1.990	2.991	3.6	20.2
8 29	22 25.20	+ 0 12.1	1.025	2.028	4.8	16.6	8 29	22 25.18	-17 33.3	1.978	2.980	2.8	20.1
9 8	22 17.44	- 1 12.2	1.031	2.025	6.5	16.7	9 8	22 16.70	-17 51.4	1.993	2.970	5.8	20.3
9 18	22 11.08	- 2 40.3	1.060	2.024	11.1	16.9	9 18	22 9.14	-17 58.3	2.035	2.960	9.2	20.5
9 28	22 7.24	- 4 1.2	1.109	2.023	15.8	17.2	9 28	22 3.24	-17 52.3	2.101	2.949	12.3	20.7
445488	2010 <i>VE</i> ₁₇₅		8 27.8 104°34	4°4/ 1.9	18		24768	1993 <i>FC</i> ₁₃		8 27.8 143°08	1°8/26.2	18	
7 20	22 47.03	+ 6 41.8	2.402	3.156	14.2	21.1	7 20	22 53.89	-11 24.8	1.807	2.642	15.2	19.0
7 30	22 43.61	+ 6 44.3	2.314	3.160	11.9	20.9	7 30	22 49.48	-12 10.4	1.736	2.650	11.8	18.8
8 9	22 38.55	+ 6 29.5	2.247	3.164	9.3	20.8	8 9	22 42.79	-13 6.6	1.687	2.658	7.9	18.6
8 19	22 32.26	+ 5 57.5	2.202	3.168	6.6	20.6	8 19	22 34.37	-14 8.0	1.663	2.666	3.8	18.4
8 29	22 25.32	+ 5 10.2	2.184	3.172	4.6	20.5	8 29	22 25.11	-15 7.8	1.666	2.673	2.2	18.3
9 8	22 18.45	+ 4 11.4	2.194	3.176	4.9	20.5	9 8	22 16.05	-15 59.5	1.697	2.679	6.0	18.6
9 18	22 12.33	+ 3 6.3	2.230	3.179	7.1	20.7	9 18	22 8.18	-16 38.1	1.754	2.685	10.0	18.8
9 28	22 7.58	+ 2 0.4	2.294	3.183	9.8	20.9	9 28	22 2.32	-17 1.1	1.834	2.691	13.4	19.0
139085	2001 <i>FE</i> ₂₅		8 27.8 71°25	1°6/26.8	18		337313	2001 <i>AP</i> ₄₇		8 27.8 274°20	3°6/25.8		

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
206308	2003 <i>HY</i> ₁₂		8 27.8 141°59	0°5/27.5	17		394654	2008 <i>AS</i> ₁₂₀		8 27.8 91°44	1°4/26.5	18	
7 20	22 52.33	- 6 29.0	1.459	2.298	18.0	20.5	7 20	22 49.74	-11 2.5	2.075	2.908	13.6	21.5
7 30	22 48.82	- 7 16.5	1.389	2.303	14.2	20.2	7 30	22 45.96	-11 41.4	2.002	2.916	10.5	21.3
8 9	22 42.66	- 8 22.5	1.337	2.307	9.6	20.0	8 9	22 40.27	-12 29.6	1.952	2.923	7.0	21.1
8 19	22 34.42	- 9 41.7	1.309	2.312	4.5	19.7	8 19	22 33.14	-13 22.6	1.927	2.930	3.3	20.9
8 29	22 25.10	-11 5.8	1.306	2.316	1.0	19.5	8 29	22 25.32	-14 15.1	1.930	2.937	1.7	20.8
9 8	22 15.96	-12 25.5	1.330	2.320	6.1	19.8	9 8	22 17.66	-15 1.6	1.960	2.944	5.2	21.0
9 18	22 8.20	-13 32.7	1.378	2.323	11.0	20.1	9 18	22 10.96	-15 37.9	2.017	2.951	8.7	21.3
9 28	22 2.78	-14 22.0	1.449	2.326	15.2	20.4	9 28	22 5.93	-16 1.3	2.099	2.958	11.9	21.5
353549	2011 <i>SR</i> ₁₈₈		8 27.8 321°26	0°0/27.8	18		51474	2001 <i>FG</i> ₅₅		8 27.8 105°05	0°3/27.6	18	
7 20	22 51.49	- 8 36.6	1.850	2.680	15.1	20.9	7 20	22 56.96	- 8 51.0	1.656	2.484	16.7	19.2
7 30	22 47.65	- 8 41.2	1.766	2.675	11.9	20.7	7 30	22 51.93	- 9 5.4	1.593	2.501	13.1	19.0
8 9	22 41.61	- 8 56.4	1.703	2.670	8.2	20.5	8 9	22 44.45	- 9 31.5	1.550	2.517	8.8	18.8
8 19	22 33.86	- 9 19.5	1.664	2.666	3.9	20.2	8 19	22 35.17	-10 5.2	1.532	2.534	4.2	18.5
8 29	22 25.19	- 9 46.1	1.652	2.662	0.5	19.9	8 29	22 25.07	-10 41.1	1.540	2.549	0.7	18.3
9 8	22 16.61	-10 11.4	1.666	2.657	5.0	20.2	9 8	22 15.32	-11 13.5	1.575	2.565	5.4	18.7
9 18	22 9.08	-10 31.1	1.707	2.653	9.1	20.5	9 18	22 6.97	-11 37.8	1.637	2.580	9.7	19.0
9 28	22 3.45	-10 41.9	1.772	2.650	12.8	20.7	9 28	22 0.84	-11 50.9	1.722	2.594	13.4	19.2
365472	2010 <i>PL</i> ₁₇		8 27.8 51°30	16°0/ 7.3	18		337223	2000 <i>EN</i> ₁		8 27.8 181°77	0°0/27.9	18	
7 20	23 1.61	+19 48.4	1.393	2.090	25.0	19.6	7 20	22 52.76	- 8 1.3	2.656	3.460	11.8	22.4
7 30	22 56.65	+22 37.6	1.331	2.102	22.8	19.4	7 30	22 47.88	- 8 17.5	2.567	3.461	9.2	22.3
8 9	22 48.39	+24 59.7	1.285	2.114	20.4	19.3	8 9	22 41.37	- 8 41.9	2.501	3.462	6.3	22.1
8 19	22 37.35	+26 44.5	1.255	2.126	18.2	19.2	8 19	22 33.64	- 9 12.2	2.461	3.462	3.0	21.9
8 29	22 24.70	+27 44.1	1.245	2.139	16.6	19.1	8 29	22 25.27	- 9 44.9	2.451	3.461	0.4	21.6
9 8	22 12.05	+27 56.8	1.255	2.152	16.0	19.1	9 8	22 16.98	-10 16.5	2.471	3.459	3.8	21.9
9 18	22 1.03	+27 27.5	1.284	2.165	16.7	19.2	9 18	22 9.44	-10 43.7	2.519	3.457	7.0	22.1
9 28	21 52.98	+26 27.2	1.333	2.179	18.1	19.4	9 28	22 3.26	-11 3.7	2.594	3.454	9.8	22.3
68423	2001 <i>QD</i> ₃₁₅		8 27.8 236°83	0°2/28.0	18		312383	2008 <i>EW</i> ₉₂		8 27.8 116°92	5°6/22.1	18	
7 20	22 52.34	- 6 15.1	1.970	2.787	14.8	20.5	7 20	22 51.94	-24 20.9	2.184	3.032	12.5	20.4
7 30	22 48.31	- 6 42.6	1.873	2.774	11.8	20.3	7 30	22 47.70	-25 23.7	2.120	3.036	9.9	20.3
8 9	22 42.10	- 7 23.9	1.797	2.760	8.1	20.0	8 9	22 41.46	-26 26.4	2.079	3.040	7.3	20.1
8 19	22 34.14	- 8 16.3	1.746	2.746	4.0	19.8	8 19	22 33.72	-27 22.4	2.063	3.045	5.7	20.0
8 29	22 25.15	- 9 14.7	1.721	2.731	0.5	19.5	8 29	22 25.26	-28 5.5	2.075	3.049	6.1	20.1
9 8	22 16.10	-10 13.0	1.725	2.716	4.9	19.8	9 8	22 17.00	-28 31.0	2.113	3.052	8.2	20.2
9 18	22 7.97	-11 5.4	1.757	2.700	9.1	20.0	9 18	22 9.79	-28 37.2	2.176	3.056	10.8	20.4
9 28	22 1.63	-11 47.0	1.812	2.683	12.9	20.2	9 28	22 4.35	-28 24.2	2.261	3.060	13.2	20.6
171720	2000 <i>US</i> ₉₂		8 27.8 350°98	5°9/31.8	18		209399	2004 <i>EW</i> ₇₈		8 27.8 97°07	1°4/26.5	18	
7 20	22 45.84	+ 3 3.5	1.113	1.949	22.6	19.6	7 20	22 50.46	-11 11.9	2.056	2.890	13.7	20.6
7 30	22 44.54	+ 3 35.9	1.042	1.943	18.9	19.3	7 30	22 46.52	-11 49.7	1.986	2.899	10.6	20.4
8 9	22 40.23	+ 3 41.0	0.986	1.938	14.5	19.0	8 9	22 40.64	-12 36.6	1.937	2.908	7.1	20.2
8 19	22 33.44	+ 3 17.1	0.949	1.934	9.7	18.8	8 19	22 33.33	-13 28.1	1.914	2.917	3.3	20.0
8 29	22 25.24	+ 2 26.3	0.932	1.931	6.2	18.6	8 29	22 25.32	-14 18.9	1.919	2.926	1.8	19.9
9 8	22 17.10	+ 1 16.2	0.937	1.930	7.4	18.6	9 8	22 17.49	-15 3.4	1.951	2.935	5.2	20.1
9 18	22 10.49	+ 0 2.5	0.964	1.929	11.8	18.9	9 18	22 10.66	-15 37.7	2.010	2.943	8.8	20.4
9 28	22 6.60	- 1 18.2	1.011	1.929	16.5	19.1	9 28	22 5.52	-15 59.0	2.093	2.952	11.9	20.6
514769	2007 <i>EG</i> ₁₈₃		8 27.8 230°62	0°1/27.7	18		295757	2008 <i>UT</i> ₁₄₆		8 27.8 275°19	2°2/26.0	18	
7 20	22 47.48	- 6 31.8	2.595	3.407	11.8	22.4	7 20	22 52.15	-13 21.7	1.781	2.625	15.0	21.2
7 30	22 43.92	- 7 13.8	2.499	3.398	9.3	22.2	7 30	22 48.32	-13 53.8	1.701	2.620	11.7	21.0
8 9	22 38.78	- 8 7.0	2.425	3.388	6.3	22.0	8 9	22 42.15	-14 34.7	1.641	2.614	7.9	20.7
8 19	22 32.42	- 9 8.3	2.378	3.379	3.0	21.7	8 19	22 34.17	-15 19.5	1.606	2.608	3.9	20.5
8 29	22 25.39	-10 13.6	2.359	3.369	0.5	21.5	8 29	22 25.21	-16 2.0	1.597	2.603	2.6	20.4
9 8	22 18.36	-11 17.9	2.370	3.358	3.9	21.8	9 8	22 16.34	-16 36.1	1.615	2.597	6.3	20.6
9 18	22 11.99	-12 16.7	2.409	3.348	7.2	22.0	9 18	22 8.61	-16 57.4	1.659	2.592	10.3	20.8
9 28	22 6.89	-13 6.0	2.474	3.337	10.2	22.1	9 28	22 2.89	-17 3.6	1.726	2.586	14.0	21.0
170753	2004 <i>CW</i> ₄		8 27.8 140°84	2°5/25.5	18		263151	2007 <i>VJ</i> ₂₄₅		8 27.8 303°22	5°3/23.9	18	
7 20	22 51.14	-14 18.4	2.035	2.875	13.6	20.4	7 20	22 52.08	-17 35.4	1.315	2.185	17.8	20.1
7 30	22 47.14	-14 59.4	1.960	2.878	10.5	20.2	7 30	22 49.20	-18 40.1	1.243	2.176	14.0	19.9
8 9	22 41.12	-15 47.6	1.908	2.880	7.1	20.0	8 9	22 43.28	-19 54.4	1.191	2.167	9.7	19.6
8 19	22 33.57	-16 38.0	1.881	2.882	3.6	19.8	8 19	22 34.88	-21 9.4	1.160	2.159	6.0	19.4
8 29	22 25.25	-17 24.8	1.881	2.884	2.8	19.8	8 29	22 25.11	-22 14.1	1.154	2.150	6.0	19.3
9 8	22 17.08	-18 2.6	1.909	2.886	6.0	20.0	9 8	22 15.45	-22 59.0	1.172	2.142	9.8	19.5
9 18	22 9.92	-18 27.7	1.963	2.888	9.4	20.2	9 18	22 7.34	-23 18.8	1.212	2.134	14.2	19.8
9 28	22 4.52	-18 38.1	2.040	2.890	12.6	20.4	9 28	22 1.94	-23 12.4	1.271	2.126	18.3	20.0
477108	2009 <i>BA</i> ₁₇₄		8 27.8 317°17	1°2/26.8	18		510500	2011 <i>YK</i> ₄₉		8 27.8 310°66	2°1/31.3	16	
7 20	22 47.82	- 9 28.5	1.646	2.493	15.9	20.6	7 20	22 43.52	+ 1 11.8	4.146	4.907	8.6	20.9
7 30	22 45.17	-10 6.4	1.560	2.481	12.5	20.4	7 30	22 40.20	+ 1 19.6	4.043	4.900	7.0	20.8
8 9	22 40.16	-10 58.4	1.495	2.469	8.5	20.1	8 9	22 35.94	+ 1 19.6	3.962	4.893	5.2	20.7
8 19	22 33.26	-11 59.9	1.454	2.457	4.0	19.8	8 19	22 30.98	+ 1 12.1	3.908	4.886	3.4	20.5
8 29	22 25.28	-13 4.2	1.438	2.446	1.6	19.6	8 29	22 25.65	+ 0 58.4	3.882	4.879	2.1	20.4
9 8	22 17.32	-14 3.7	1.447	2.435	6.0	19.9	9 8	22 20.33	+ 0 39.9	3.886	4.872	2.7	20.5
9 18	22 10.44	-14 51.9	1.482	2.425	10.5	20.1	9 18	22 15.40	+ 0 18.9	3.919	4.865	4.4	20.6
9 28	22 5.58	-15 24.2	1.540	2.415	14.5	20.4	9 28	22 11.20	- 0 2.7	3.979	4.859	6.3	20.7
444115	2004 <i>TM</i> ₁₄₃												

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
374033	2004 <i>FF</i> ₁₁₁		8 27.8 144°60	3°9/31.7	17		429456	2010 <i>VD</i> ₂₀₅		8 27.8 310°05	0°3/27.7	18	
7 20	22 52.14	+ 4 26.1	2.008	2.778	16.2	21.3	7 20	22 55.59	-10 13.8	1.337	2.186	18.8	20.8
7 30	22 47.90	+ 4 17.4	1.928	2.788	13.4	21.1	7 30	22 51.84	-10 3.0	1.257	2.176	14.9	20.5
8 9	22 41.65	+ 3 49.0	1.867	2.798	10.1	20.9	8 9	22 45.04	-10 3.4	1.195	2.167	10.3	20.2
8 19	22 33.86	+ 3 1.8	1.829	2.807	6.6	20.8	8 19	22 35.74	-10 11.9	1.156	2.159	5.0	19.9
8 29	22 25.28	+ 1 59.0	1.818	2.815	4.1	20.6	8 29	22 25.04	-10 23.3	1.140	2.150	0.8	19.6
9 8	22 16.83	+ 0 46.1	1.835	2.823	5.0	20.7	9 8	22 14.42	-10 32.0	1.150	2.142	6.4	19.9
9 18	22 9.38	- 0 30.3	1.880	2.831	8.1	20.9	9 18	22 5.31	-10 33.4	1.184	2.134	11.8	20.2
9 28	22 3.67	- 1 43.3	1.950	2.837	11.4	21.1	9 28	21 58.90	-10 24.1	1.238	2.127	16.4	20.5
252907	2002 <i>JE</i> ₁₃₆		8 27.8 122°59	0°2/28.0	18		434088	2002 <i>CV</i> ₇₂		8 27.8 189°21	1°8/25.9	16	
7 20	22 48.99	- 6 59.0	2.509	3.320	12.2	21.2	7 20	22 49.80	- 9 50.9	1.948	2.782	14.3	20.9
7 30	22 45.01	- 7 22.8	2.431	3.329	9.5	21.1	7 30	22 46.28	-11 0.0	1.868	2.782	11.1	20.7
8 9	22 39.46	- 7 56.3	2.375	3.337	6.5	20.9	8 9	22 40.67	-12 22.3	1.810	2.781	7.4	20.4
8 19	22 32.73	- 8 36.6	2.345	3.346	3.1	20.7	8 19	22 33.45	-13 52.2	1.777	2.780	3.5	20.2
8 29	22 25.43	- 9 20.1	2.344	3.354	0.4	20.5	8 29	22 25.36	-15 22.3	1.772	2.779	2.2	20.1
9 8	22 18.25	-10 2.5	2.371	3.361	3.8	20.8	9 8	22 17.34	-16 44.8	1.795	2.777	5.9	20.4
9 18	22 11.85	-10 40.1	2.427	3.369	7.0	21.0	9 18	22 10.29	-17 53.5	1.845	2.775	9.7	20.6
9 28	22 6.80	-11 9.9	2.508	3.376	9.9	21.2	9 28	22 5.00	-18 44.5	1.919	2.772	13.1	20.8
470560	2008 <i>FC</i> ₆₇		8 27.8 88°83	2°4/29.9	17		71013	1999 <i>XG</i> ₅₀		8 27.8 333°41	1°2/28.8	18	
7 20	22 52.21	- 0 48.8	1.606	2.417	17.9	21.9	7 20	22 48.19	- 4 49.8	1.550	2.386	17.3	19.3
7 30	22 48.35	- 1 4.1	1.540	2.433	14.4	21.7	7 30	22 45.56	- 4 57.7	1.467	2.377	13.8	19.0
8 9	22 42.12	- 1 38.9	1.494	2.448	10.3	21.5	8 9	22 40.50	- 5 22.3	1.403	2.369	9.7	18.7
8 19	22 34.12	- 2 30.7	1.470	2.464	5.8	21.3	8 19	22 33.48	- 6 1.1	1.362	2.361	5.1	18.5
8 29	22 25.26	- 3 34.3	1.472	2.479	2.4	21.1	8 29	22 25.36	- 6 49.4	1.345	2.354	1.2	18.2
9 8	22 16.68	- 4 42.5	1.501	2.494	5.0	21.3	9 8	22 17.27	- 7 40.3	1.353	2.347	5.3	18.4
9 18	22 9.38	- 5 47.9	1.556	2.509	9.2	21.6	9 18	22 10.34	- 8 27.3	1.387	2.341	10.0	18.7
9 28	22 4.19	- 6 44.2	1.634	2.524	13.0	21.8	9 28	22 5.52	- 9 4.4	1.442	2.335	14.2	18.9
291145	2005 <i>YW</i> ₂₃₇		8 27.8 194°26	0°4/28.3	18		275002	2009 <i>TK</i> ₃₄		8 27.9 345°16	5°3/24.0	16	
7 20	22 47.79	- 5 51.3	2.634	3.441	11.8	21.8	7 20	22 47.97	-17 10.9	1.210	2.092	18.3	20.6
7 30	22 44.08	- 6 18.2	2.544	3.440	9.3	21.6	7 30	22 46.12	-18 13.7	1.144	2.084	14.3	20.3
8 9	22 38.85	- 6 55.4	2.478	3.438	6.4	21.4	8 9	22 41.26	-19 26.6	1.097	2.077	9.9	20.0
8 19	22 32.47	- 7 40.4	2.437	3.437	3.2	21.2	8 19	22 33.94	-20 40.4	1.071	2.071	6.0	19.8
8 29	22 25.48	- 8 29.6	2.425	3.435	0.4	21.0	8 29	22 25.30	-21 44.1	1.068	2.065	6.0	19.8
9 8	22 18.54	- 9 18.8	2.442	3.432	3.6	21.3	9 8	22 16.84	-22 27.7	1.087	2.061	9.9	20.0
9 18	22 12.28	-10 4.0	2.487	3.430	6.8	21.5	9 18	22 9.97	-22 45.9	1.129	2.058	14.4	20.2
9 28	22 7.29	-10 41.9	2.558	3.428	9.7	21.6	9 28	22 5.82	-22 37.5	1.189	2.056	18.5	20.5
429689	2011 <i>HT</i> ₃₈		8 27.8 69°27	0°7/28.5	17		138268	2000 <i>GR</i> ₁₅		8 27.9 213°13	1°9/29.7	18	
7 20	22 48.50	- 3 8.9	1.647	2.472	16.9	21.0	7 20	22 52.62	- 1 21.2	2.124	2.916	14.7	20.6
7 30	22 45.48	- 3 56.9	1.577	2.482	13.4	20.8	7 30	22 48.34	- 1 38.4	2.026	2.908	11.9	20.4
8 9	22 40.21	- 5 4.2	1.527	2.491	9.3	20.6	8 9	22 42.03	- 2 11.2	1.950	2.899	8.6	20.1
8 19	22 33.22	- 6 26.6	1.500	2.500	4.7	20.4	8 19	22 34.12	- 2 58.0	1.898	2.890	4.9	19.9
8 29	22 25.38	- 7 57.0	1.500	2.510	0.8	20.1	8 29	22 25.28	- 3 55.2	1.873	2.880	2.0	19.7
9 8	22 17.71	- 9 26.8	1.526	2.519	5.0	20.4	9 8	22 16.42	- 4 57.4	1.877	2.869	4.4	19.8
9 18	22 11.20	-10 48.0	1.579	2.529	9.4	20.7	9 18	22 8.42	- 5 58.8	1.909	2.857	8.2	20.1
9 28	22 6.66	-11 54.5	1.655	2.538	13.3	21.0	9 28	22 2.07	- 6 54.0	1.967	2.845	11.7	20.3
259699	2003 <i>YY</i> ₂₈		8 27.8 264°01	4°9/23.9	18		514248	2015 <i>PP</i> ₅₂		8 27.9 8°61	8°3/21.7	18	
7 20	22 52.25	-17 6.4	1.513	2.374	16.4	20.4	7 20	22 58.97	-31 43.8	1.835	2.680	14.6	20.9
7 30	22 48.94	-18 17.8	1.438	2.366	12.8	20.1	7 30	22 53.65	-32 27.6	1.775	2.681	12.1	20.7
8 9	22 42.90	-19 38.7	1.383	2.358	8.9	19.9	8 9	22 45.70	-33 4.2	1.737	2.682	9.7	20.6
8 19	22 34.65	-21 0.8	1.352	2.350	5.5	19.7	8 19	22 35.81	-33 25.7	1.722	2.684	8.4	20.5
8 29	22 25.18	-22 14.1	1.346	2.341	5.5	19.6	8 29	22 25.08	-33 25.4	1.732	2.685	8.8	20.5
9 8	22 15.78	-23 9.6	1.365	2.333	9.0	19.8	9 8	22 14.79	-33 0.0	1.766	2.688	10.8	20.7
9 18	22 7.72	-23 42.1	1.408	2.324	13.1	20.0	9 18	22 6.06	-32 10.3	1.825	2.690	13.3	20.8
9 28	22 2.07	-23 49.8	1.472	2.315	16.8	20.3	9 28	21 59.74	-30 59.6	1.905	2.693	15.7	21.0
341117	2007 <i>LJ</i> ₁₄		8 27.8 12°20	3°6/30.7	16		441305	2008 <i>AG</i> ₃₈		8 27.9 289°13	1°1/26.7	18	
7 20	22 45.64	+ 0 56.6	1.332	2.163	19.9	20.8	7 20	22 47.91	- 8 49.1	1.948	2.783	14.3	21.9
7 30	22 43.78	+ 0 54.6	1.264	2.165	16.2	20.6	7 30	22 44.99	- 9 38.9	1.847	2.760	11.3	21.6
8 9	22 39.36	+ 0 28.5	1.213	2.169	11.9	20.3	8 9	22 39.96	-10 43.0	1.767	2.738	7.6	21.4
8 19	22 32.91	- 0 20.5	1.183	2.174	7.3	20.1	8 19	22 33.20	-11 57.4	1.712	2.715	3.6	21.1
8 29	22 25.41	- 1 27.5	1.175	2.180	3.7	19.9	8 29	22 25.40	-13 15.7	1.684	2.692	1.5	20.9
9 8	22 18.09	- 2 44.1	1.192	2.186	5.7	20.0	9 8	22 17.48	-14 30.5	1.683	2.669	5.6	21.1
9 18	22 12.10	- 4 0.9	1.232	2.194	10.2	20.3	9 18	22 10.39	-15 35.3	1.709	2.646	9.8	21.3
9 28	22 8.39	- 5 9.3	1.295	2.203	14.5	20.6	9 28	22 5.02	-16 25.0	1.758	2.623	13.5	21.5
373737	2002 <i>TF</i> ₃₃		8 27.8 322°97	1°7/29.0	18		103811	2000 <i>DE</i> ₁₉		8 27.9 146°33	0°9/28.7	18	
7 20	22 46.68	- 4 6.3	1.250	2.101	19.7	20.5	7 20	22 51.98	- 5 28.7	2.158	2.967	14.0	20.9
7 30	22 45.08	- 4 8.4	1.164	2.083	15.9	20.2	7 30	22 47.64	- 5 38.9	2.078	2.973	11.1	20.7
8 9	22 40.61	- 4 31.1	1.096	2.065	11.4	19.9	8 9	22 41.40	- 6 0.7	2.019	2.978	7.7	20.5
8 19	22 33.69	- 5 13.0	1.048	2.048	6.1	19.5	8 19	22 33.74	- 6 31.7	1.985	2.983	3.9	20.3
8 29	22 25.29	- 6 9.0	1.022	2.031	1.7	19.2	8 29	22 25.35	- 7 8.2	1.978	2.988	0.9	20.1
9 8	22 16.78	- 7 10.6	1.020	2.016	6.2	19.4	9 8	22 17.08	- 7 45.7	2.000	2.992	4.2	20.4
9 18	22 9.58	- 8 8.8	1.041	2.001	11.8	19.7	9 18	22 9.75	- 8 19.8	2.050	2.996	7.8	20.6
9 28	22 4.94	- 8 55.4	1.082	1.988	16.8	20.0	9 28	22 4.04	- 8 47.0	2.125	3.000	11.1	20.8
160693	2000 <i>HO</i> ₅₅		8 27.8 18°15	3°2/26.2	17		296006	2008 <i>YL</i> ₁₀₉					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
442327	2011 <i>SO</i> ₁₄₄		8 27.9 265°05	3°6/24.6	18		425914	2011 <i>FJ</i> ₁₄₁		8 27.9 71°77	5°4/23.9	16	
7 20	22 53.27	-18 20.8	2.098	2.940	13.2	21.5	7 20	22 56.57	-21 21.7	1.616	2.470	15.8	21.0
7 30	22 48.95	-18 57.6	2.009	2.926	10.3	21.3	7 30	22 51.83	-22 7.8	1.561	2.483	12.4	20.8
8 9	22 42.49	-19 38.7	1.942	2.912	7.1	21.1	8 9	22 44.50	-22 55.5	1.527	2.496	8.7	20.6
8 19	22 34.34	-20 19.0	1.900	2.897	4.3	20.9	8 19	22 35.27	-23 37.1	1.516	2.509	5.9	20.5
8 29	22 25.27	-20 52.4	1.886	2.883	4.0	20.8	8 29	22 25.20	-24 5.4	1.532	2.522	5.9	20.5
9 8	22 16.23	-21 14.1	1.899	2.868	6.8	21.0	9 8	22 15.56	-24 15.3	1.573	2.534	8.7	20.7
9 18	22 8.16	-21 20.9	1.939	2.853	10.2	21.2	9 18	22 7.46	-24 5.0	1.639	2.547	12.1	20.9
9 28	22 1.89	-21 11.6	2.001	2.838	13.3	21.3	9 28	22 1.72	-23 35.8	1.726	2.560	15.2	21.2
470838	2008 <i>XN</i> ₁		8 27.9 337°44	10°6/4.5	18		92000	1999 <i>VN</i> ₁₄₄		8 27.9 159°07	9°2/15.4	18	
7 20	22 48.58	+12 25.2	1.499	2.258	21.2	19.9	7 20	23 0.28	-44 46.7	2.868	3.663	11.2	20.0
7 30	22 46.15	+13 51.6	1.413	2.247	18.7	19.7	7 30	22 54.06	-45 56.4	2.826	3.669	10.1	19.9
8 9	22 41.11	+14 54.5	1.344	2.236	15.9	19.5	8 9	22 45.68	-46 54.0	2.806	3.673	9.4	19.9
8 19	22 33.88	+15 28.5	1.292	2.227	13.1	19.3	8 19	22 35.75	-47 33.3	2.810	3.678	9.3	19.9
8 29	22 25.31	+15 30.0	1.261	2.218	11.1	19.1	8 29	22 25.16	-47 49.6	2.838	3.682	9.8	19.9
9 8	22 16.62	+15 0.1	1.253	2.211	10.7	19.1	9 8	22 14.91	-47 41.0	2.889	3.686	10.8	20.0
9 18	22 9.07	+14 4.4	1.266	2.204	12.4	19.2	9 18	22 5.93	-47 8.3	2.961	3.690	12.0	20.1
9 28	22 3.77	+12 52.3	1.301	2.198	15.2	19.3	9 28	21 58.94	-46 14.5	3.053	3.693	13.2	20.2
46901	1998 <i>RQ</i> ₆₀		8 27.9 358°92	2°5/29.9	18		384698	2011 <i>HH</i> ₁₁		8 27.9 45°40	7°0/21.6	16	
7 20	22 49.84	- 1 48.8	1.734	2.548	16.6	18.9	7 20	22 51.23	-22 44.5	1.582	2.448	15.5	21.1
7 30	22 46.51	- 1 44.4	1.653	2.547	13.5	18.7	7 30	22 47.96	-24 18.1	1.525	2.453	12.2	20.9
8 9	22 40.94	- 1 56.5	1.592	2.546	9.7	18.5	8 9	22 42.08	-25 54.4	1.490	2.458	9.0	20.7
8 19	22 33.62	- 2 23.7	1.553	2.546	5.6	18.2	8 19	22 34.21	-27 23.6	1.478	2.462	7.1	20.6
8 29	22 25.37	- 3 2.6	1.540	2.546	2.6	18.0	8 29	22 25.34	-28 35.6	1.492	2.468	7.8	20.7
9 8	22 17.20	- 3 47.8	1.553	2.546	4.9	18.2	9 8	22 16.73	-29 23.1	1.530	2.473	10.5	20.9
9 18	22 10.12	- 4 33.4	1.593	2.547	9.0	18.4	9 18	22 9.53	-29 43.2	1.591	2.478	13.6	21.1
9 28	22 4.97	- 5 13.7	1.656	2.548	12.7	18.7	9 28	22 4.63	-29 36.5	1.672	2.484	16.6	21.3
348777	2006 <i>KX</i> ₅₀		8 27.9 334°55	7°9/4.6	18		378295	2007 <i>EP</i> ₁₅₇		8 27.9 288°26	1°1/27.0	18	
7 20	22 48.22	+13 2.8	1.873	2.607	18.3	20.8	7 20	22 50.31	- 8 55.8	1.560	2.405	16.8	21.4
7 30	22 45.20	+13 34.0	1.786	2.605	16.0	20.6	7 30	22 47.45	- 9 31.9	1.465	2.384	13.3	21.1
8 9	22 40.05	+13 41.0	1.715	2.604	13.3	20.4	8 9	22 41.99	-10 23.9	1.390	2.362	9.1	20.8
8 19	22 33.21	+13 21.3	1.665	2.603	10.5	20.3	8 19	22 34.33	-11 27.6	1.338	2.341	4.3	20.5
8 29	22 25.42	+12 34.9	1.637	2.601	8.4	20.1	8 29	22 25.32	-12 36.2	1.310	2.319	1.5	20.2
9 8	22 17.64	+11 25.4	1.635	2.600	8.0	20.1	9 8	22 16.15	-13 41.0	1.309	2.298	6.4	20.5
9 18	22 10.83	+ 9 59.6	1.657	2.599	9.7	20.2	9 18	22 8.08	-14 34.6	1.333	2.276	11.4	20.7
9 28	22 5.82	+ 8 26.2	1.704	2.599	12.3	20.4	9 28	22 2.22	-15 11.5	1.378	2.255	15.8	20.9
96128	2220 <i>T</i> ₋₃		8 27.9 326°90	2°6/30.3	18		90481	Wollstonecraft		8 27.9 200°45	3°6/1.1	18	
7 20	22 46.63	- 0 46.0	1.952	2.760	15.3	20.0	7 20	22 49.83	+ 4 55.0	2.719	3.469	12.8	21.0
7 30	22 43.84	- 0 47.2	1.859	2.749	12.4	19.8	7 30	22 45.69	+ 4 53.2	2.619	3.465	10.7	20.9
8 9	22 39.07	- 1 4.4	1.786	2.738	9.1	19.6	8 9	22 39.98	+ 4 36.6	2.539	3.460	8.2	20.7
8 19	22 32.72	- 1 36.7	1.736	2.727	5.4	19.3	8 19	22 33.08	+ 4 5.5	2.484	3.454	5.6	20.5
8 29	22 25.49	- 2 21.0	1.712	2.717	2.6	19.1	8 29	22 25.52	+ 3 21.7	2.456	3.448	3.7	20.4
9 8	22 18.25	- 3 12.4	1.714	2.707	4.6	19.2	9 8	22 17.95	+ 2 28.6	2.457	3.441	4.3	20.4
9 18	22 11.87	- 4 5.1	1.743	2.698	8.3	19.4	9 18	22 11.03	+ 1 30.4	2.487	3.434	6.6	20.6
9 28	22 7.15	- 4 53.6	1.796	2.689	11.9	19.6	9 28	22 5.35	+ 0 32.0	2.544	3.426	9.2	20.7
129069	2004 <i>VD</i> ₅₃		8 27.9 315°43	0°0/27.9	18		75866	2000 <i>CA</i> ₂₀		8 27.9 235°70	2°8/30.5	18	
7 20	22 46.90	- 7 15.7	2.014	2.844	14.1	20.1	7 20	22 50.04	+ 0 7.8	2.056	2.849	15.1	19.9
7 30	22 44.04	- 7 38.7	1.918	2.827	11.1	19.9	7 30	22 46.37	+ 0 6.6	1.964	2.844	12.3	19.7
8 9	22 39.20	- 8 14.2	1.843	2.810	7.7	19.6	8 9	22 40.72	- 0 10.6	1.893	2.839	9.0	19.5
8 19	22 32.80	- 8 59.3	1.792	2.793	3.7	19.3	8 19	22 33.52	- 0 42.7	1.845	2.833	5.5	19.2
8 29	22 25.49	- 9 49.6	1.767	2.777	0.5	19.1	8 29	22 25.46	- 1 26.8	1.824	2.827	2.9	19.1
9 8	22 18.14	-10 39.4	1.770	2.761	4.7	19.4	9 8	22 17.41	- 2 18.3	1.830	2.822	4.5	19.2
9 18	22 11.63	-11 23.4	1.800	2.746	8.7	19.6	9 18	22 10.24	- 3 11.7	1.864	2.816	8.0	19.4
9 28	22 6.75	-11 57.3	1.853	2.731	12.3	19.8	9 28	22 4.72	- 4 1.4	1.922	2.809	11.5	19.6
380255	2001 <i>XJ</i> ₂₆		8 27.9 185°85	6°2/20.7	18		420771	2013 <i>GL</i> ₃₂		8 27.9 34°08	7°6/24.2	17	
7 20	22 53.88	-25 19.0	2.261	3.104	12.3	20.5	7 20	22 56.08	-22 8.2	0.921	1.813	21.7	20.0
7 30	22 49.32	-26 50.4	2.192	3.104	9.8	20.3	7 30	22 52.88	-22 56.5	0.886	1.828	17.0	19.8
8 9	22 42.67	-28 22.3	2.147	3.103	7.5	20.2	8 9	22 45.85	-23 45.6	0.868	1.846	12.1	19.6
8 19	22 34.40	-29 47.1	2.129	3.102	6.2	20.1	8 19	22 36.04	-24 23.7	0.869	1.864	8.2	19.4
8 29	22 25.29	-30 57.4	2.139	3.100	6.9	20.1	8 29	22 25.18	-24 39.9	0.891	1.883	8.2	19.5
9 8	22 16.27	-31 47.6	2.175	3.098	9.0	20.2	9 8	22 15.25	-24 28.7	0.934	1.904	11.7	19.8
9 18	22 8.25	-32 15.1	2.237	3.094	11.4	20.4	9 18	22 7.79	-23 50.3	0.997	1.925	15.9	20.1
9 28	22 2.02	-32 20.0	2.320	3.090	13.7	20.6	9 28	22 3.76	-22 49.1	1.078	1.948	19.8	20.4
38499	1999 <i>TT</i> ₁₆₁		8 27.9 39°51	1°2/26.6	18		304379	2006 <i>SU</i> ₃₈₃		8 27.9 211°88	1°1/26.7	18	
7 20	22 48.81	-10 53.8	2.094	2.928	13.4	19.3	7 20	22 48.98	- 9 46.5	2.273	3.100	12.8	21.9
7 30	22 45.27	-11 27.4	2.018	2.932	10.4	19.1	7 30	22 45.34	-10 32.5	2.187	3.096	10.0	21.7
8 9	22 39.85	-12 10.1	1.965	2.936	7.0	18.9	8 9	22 39.91	-11 28.9	2.124	3.092	6.7	21.5
8 19	22 33.02	-12 58.0	1.937	2.940	3.3	18.7	8 19	22 33.09	-12 31.6	2.086	3.088	3.1	21.3
8 29	22 25.47	-13 45.8	1.936	2.944	1.6	18.6	8 29	22 25.53	-13 35.4	2.076	3.084	1.4	21.1
9 8	22 18.06	-14 28.3	1.963	2.948	5.0	18.8	9 8	22 18.02	-14 34.6	2.095	3.080	4.8	21.4
9 18	22 11.59	-15 1.5	2.016	2.952	8.6	19.1	9 18	22 11.32	-15 24.6	2.142	3.075	8.3	21.6
9 28	22 6.73	-15 22.5	2.094	2.957	11.7	19.3	9 28	22 6.12	-16 1.9	2.213	3.070	11.4	21.8
193570	2001 <i>AR</i> ₃₆		8 27.9 230°19	1°4/30.3	16		221799	2008 <i>CM</i> ₂₃		8 2			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
169003	2001 <i>DG</i> ₃₃	8 27.9 153°44'		2°0'/26.0 18			145498	2005 <i>YQ</i> ₁₉₀	8 27.9 29°21'		0°4'/27.6 18		
7 20	22 55.35	-12 7.3	1.940	2.770	14.5	20.8	7 20	22 48.35	-8 33.8	1.902	2.736	14.6	20.2
7 30	22 50.52	-12 55.8	1.868	2.779	11.3	20.6	7 30	22 45.07	-8 55.9	1.833	2.745	11.4	20.0
8 9	22 43.50	-13 53.7	1.818	2.788	7.6	20.4	8 9	22 39.80	-9 29.2	1.785	2.754	7.7	19.8
8 19	22 34.82	-14 55.8	1.794	2.796	3.7	20.1	8 19	22 33.05	-10 9.9	1.761	2.763	3.6	19.6
8 29	22 25.32	-15 55.5	1.797	2.803	2.4	20.1	8 29	22 25.59	-10 53.1	1.764	2.773	0.7	19.4
9 8	22 16.01	-16 46.5	1.829	2.809	5.9	20.3	9 8	22 18.32	-11 33.4	1.794	2.784	4.8	19.7
9 18	22 7.84	-17 24.5	1.887	2.814	9.6	20.6	9 18	22 12.08	-12 6.3	1.850	2.795	8.6	20.0
9 28	22 1.59	-17 47.0	1.970	2.819	13.0	20.8	9 28	22 7.57	-12 28.4	1.930	2.806	12.0	20.2
393211	2013 <i>DF</i> ₂	8 27.9 264°78'		0°0'/27.9 17			355634	2008 <i>EV</i> ₁₇	8 27.9 59°70'		5°9'/24.1 18		
7 20	22 41.69	-7 46.7	4.551	5.354	7.2	21.6	7 20	23 4.88	-27 41.5	2.016	2.845	14.1	20.0
7 30	22 38.75	-8 8.5	4.452	5.346	5.6	21.4	7 30	22 57.63	-27 52.2	1.961	2.863	11.2	19.8
8 9	22 34.98	-8 35.4	4.377	5.338	3.8	21.3	8 9	22 48.04	-27 57.3	1.928	2.882	8.4	19.7
8 19	22 30.58	-9 6.0	4.330	5.330	1.8	21.1	8 19	22 36.86	-27 51.0	1.921	2.900	6.2	19.6
8 29	22 25.87	-9 38.3	4.312	5.322	0.2	21.0	8 29	22 25.14	-27 28.9	1.942	2.919	6.2	19.6
9 8	22 21.17	-10 10.3	4.325	5.314	2.3	21.2	9 8	22 14.03	-26 49.3	1.991	2.938	8.2	19.8
9 18	22 16.82	-10 40.0	4.367	5.306	4.2	21.3	9 18	22 4.51	-25 53.2	2.067	2.956	10.9	20.0
9 28	22 13.12	-11 5.7	4.436	5.298	6.0	21.4	9 28	21 57.27	-24 43.5	2.167	2.975	13.4	20.2
119331	2001 <i>SS</i> ₁₃₆	8 27.9 253°86'		3°1'/30.7 18			115368	2003 <i>SZ</i> ₂₅₁	8 27.9 272°31'		7°5'/21.0 18		
7 20	22 50.35	+1 19.6	1.879	2.673	16.3	20.4	7 20	22 55.85	-28 23.4	1.934	2.783	13.8	19.7
7 30	22 46.94	+1 10.0	1.779	2.658	13.4	20.2	7 30	22 51.37	-29 28.5	1.856	2.768	11.3	19.6
8 9	22 41.33	+0 41.2	1.699	2.644	9.9	19.9	8 9	22 44.37	-30 31.5	1.801	2.754	8.9	19.4
8 19	22 33.91	+0 6.2	1.641	2.628	6.1	19.7	8 19	22 35.37	-31 24.3	1.770	2.739	7.6	19.3
8 29	22 25.43	-1 9.0	1.609	2.613	3.2	19.4	8 29	22 25.31	-31 58.8	1.764	2.724	8.2	19.3
9 8	22 16.84	-2 21.4	1.605	2.597	5.0	19.5	9 8	22 15.34	-32 9.8	1.784	2.709	10.4	19.4
9 18	22 9.15	-3 36.4	1.627	2.580	8.9	19.7	9 18	22 6.62	-31 55.4	1.827	2.694	13.2	19.5
9 28	22 3.26	-4 46.6	1.674	2.563	12.8	19.9	9 28	22 0.07	-31 17.2	1.891	2.679	15.8	19.7
482773	2013 <i>GM</i> ₉₅	8 27.9 163°30'		0°2'/28.1 18			188600	2005 <i>PC</i> ₃	8 27.9 340°96'		1°3'/26.9 18		
7 20	22 47.84	-4 57.8	2.677	3.480	11.7	21.7	7 20	22 44.32	-8 48.6	1.143	2.018	19.6	19.3
7 30	22 44.11	-5 47.8	2.592	3.485	9.2	21.5	7 30	22 43.40	-9 22.0	1.069	2.005	15.5	19.0
8 9	22 38.89	-6 49.5	2.529	3.489	6.3	21.3	8 9	22 39.56	-10 14.9	1.013	1.993	10.5	18.7
8 19	22 32.54	-7 59.8	2.493	3.493	3.1	21.1	8 19	22 33.26	-11 22.2	0.977	1.982	5.0	18.4
8 29	22 25.62	-9 14.2	2.486	3.496	0.4	20.9	8 29	22 25.56	-12 34.8	0.963	1.972	1.8	18.1
9 8	22 18.76	-10 27.6	2.510	3.499	3.7	21.2	9 8	22 17.90	-13 41.9	0.972	1.964	7.3	18.4
9 18	22 12.58	-11 35.5	2.562	3.502	6.8	21.4	9 18	22 11.71	-14 34.2	1.002	1.957	12.9	18.7
9 28	22 7.63	-12 33.9	2.640	3.504	9.6	21.6	9 28	22 8.17	-15 5.5	1.052	1.951	17.8	19.0
120778	1998 <i>DQ</i> ₃₄	8 27.9 132°16'		1°4'/26.5 17			261795	2006 <i>BO</i> ₁₈₈	8 27.9 344°35'		2°9'/24.9 18		
7 20	22 54.54	-11 43.6	2.194	3.017	13.3	21.3	7 20	22 47.31	-15 10.2	2.067	2.915	13.1	20.1
7 30	22 49.54	-12 18.4	2.125	3.032	10.3	21.1	7 30	22 44.26	-16 0.6	1.989	2.911	10.1	19.9
8 9	22 42.65	-13 1.1	2.078	3.046	6.9	20.9	8 9	22 39.29	-16 58.2	1.933	2.907	6.8	19.7
8 19	22 34.35	-13 47.3	2.058	3.060	3.3	20.7	8 19	22 32.85	-17 57.8	1.903	2.903	3.7	19.5
8 29	22 25.40	-14 32.0	2.066	3.073	1.7	20.6	8 29	22 25.63	-18 53.3	1.899	2.900	3.3	19.4
9 8	22 16.67	-15 10.3	2.103	3.086	5.0	20.9	9 8	22 18.50	-19 38.9	1.923	2.897	6.2	19.6
9 18	22 8.95	-15 38.8	2.168	3.097	8.4	21.1	9 18	22 12.29	-20 10.7	1.972	2.895	9.6	19.8
9 28	22 2.93	-15 55.2	2.257	3.109	11.4	21.3	9 28	22 7.71	-20 26.3	2.045	2.892	12.6	20.0
472761	2015 <i>FZ</i> ₁₁₈	8 27.9 79°83'		5°0'/23.9 17			431769	2008 <i>HQ</i> ₅₄	8 27.9 56°61'		2°4'/26.1 17		
7 20	22 54.16	-18 37.5	1.552	2.410	16.2	20.4	7 20	22 52.51	-11 46.5	1.373	2.229	18.0	21.0
7 30	22 50.10	-19 42.6	1.497	2.423	12.6	20.2	7 30	22 48.98	-12 34.4	1.320	2.246	13.9	20.8
8 9	22 43.44	-20 52.9	1.463	2.436	8.7	20.1	8 9	22 42.76	-13 34.5	1.287	2.263	9.3	20.5
8 19	22 34.84	-22 0.1	1.452	2.448	5.5	19.9	8 19	22 34.54	-14 39.8	1.277	2.280	4.5	20.3
8 29	22 25.35	-22 55.6	1.467	2.461	5.5	19.9	8 29	22 25.43	-15 41.6	1.292	2.298	2.8	20.3
9 8	22 16.23	-23 32.6	1.508	2.473	8.6	20.1	9 8	22 16.74	-16 31.9	1.332	2.316	7.0	20.6
9 18	22 8.58	-23 48.0	1.573	2.485	12.2	20.4	9 18	22 9.61	-17 5.6	1.396	2.334	11.4	20.9
9 28	22 3.27	-23 41.7	1.659	2.498	15.5	20.6	9 28	22 4.90	-17 20.4	1.482	2.352	15.3	21.2
280584	2004 <i>TT</i> ₃₀₃	8 27.9 341°99'		2°3'/29.7 18			474500	2003 <i>UC</i> ₄₉	8 27.9 299°32'		3°9'/24.6 18		
7 20	22 48.05	-2 1.8	1.476	2.306	18.3	20.8	7 20	22 50.64	-16 5.2	1.716	2.570	15.1	21.2
7 30	22 45.58	-2 6.1	1.396	2.300	14.8	20.6	7 30	22 47.60	-16 57.2	1.617	2.542	11.8	20.9
8 9	22 40.60	-2 30.1	1.335	2.295	10.6	20.3	8 9	22 42.06	-17 58.9	1.540	2.514	8.2	20.6
8 19	22 33.61	-3 12.2	1.295	2.291	6.0	20.0	8 19	22 34.39	-19 4.3	1.486	2.486	4.7	20.3
8 29	22 25.50	-4 7.8	1.279	2.287	2.4	19.8	8 29	22 25.42	-20 5.2	1.458	2.457	4.4	20.3
9 8	22 17.45	-5 9.7	1.289	2.283	5.4	20.0	9 8	22 16.28	-20 53.8	1.456	2.429	8.0	20.4
9 18	22 10.60	-6 10.1	1.322	2.280	10.1	20.2	9 18	22 8.14	-21 24.2	1.479	2.401	12.1	20.6
9 28	22 5.94	-7 1.9	1.379	2.278	14.3	20.5	9 28	22 2.09	-21 33.5	1.523	2.373	16.0	20.8
80719	2000 <i>CG</i> ₂₄	8 27.9 318°78'		0°4'/27.5 18			327999	2007 <i>GL</i> ₆₄	8 27.9 100°09'		3°8'/1.4 18		
7 20	22 46.14	-6 9.2	1.674	2.513	16.1	18.8	7 20	22 46.97	+5 11.7	2.473	3.234	13.7	20.6
7 30	22 43.85	-7 0.9	1.587	2.502	12.7	18.5	7 30	22 43.60	+5 10.6	2.384	3.237	11.4	20.4
8 9	22 39.31	-8 10.8	1.521	2.491	8.7	18.3	8 9	22 38.64	+4 53.4	2.316	3.239	8.8	20.3
8 19	22 32.96	-9 34.4	1.478	2.481	4.1	18.0	8 19	22 32.48	+4 20.5	2.271	3.242	6.0	20.1
8 29	22 25.59	-11 4.6	1.462	2.471	0.9	17.7	8 29	22 25.69	+3 33.8	2.253	3.245	4.0	20.0
9 8	22 18.20	-12 32.5	1.471	2.462	5.6	18.0	9 8	22 18.96	+2 37.3	2.263	3.248	4.5	20.0
9 18	22 11.84	-13 50.3	1.507	2.453	10.1	18.3	9 18	22 12.94	+1 35.7	2.300	3.251	6.8	20.2
9 28	22 7.39	-14 51.6	1.565	2.444	14.1	18.5	9 28	22 8.24	+0 34.3	2.364	3.253	9.5	20.4
126462	2002 <i>CP</i> ₃₅	8 27.9 81°36'		2°9'/30.4 17			96845	1999 <i>RU</i> ₂₀₉	8 27.9 285°60'		2°2		

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
448099	2008 <i>KF</i> ₁₃		8 27.9 76°45'	1°0'/26.9	18		50654	2000 <i>EH</i> ₉₃		8 27.9 183°90'	3°2'/31.1	18	
7 20	22 49.76	-10 23.8	2.199	3.027	13.1	21.7	7 20	22 52.47	+ 1 25.8	2.415	3.186	13.7	19.7
7 30	22 45.86	-10 55.8	2.130	3.040	10.2	21.5	7 30	22 47.92	+ 1 38.3	2.323	3.186	11.3	19.5
8 9	22 40.19	-11 36.4	2.084	3.053	6.8	21.3	8 9	22 41.62	+ 1 37.4	2.252	3.186	8.4	19.4
8 19	22 33.21	-12 21.9	2.064	3.066	3.2	21.1	8 19	22 33.95	+ 1 23.4	2.205	3.185	5.4	19.2
8 29	22 25.61	-13 7.4	2.071	3.079	1.3	21.0	8 29	22 25.56	+ 0 58.0	2.186	3.184	3.3	19.0
9 8	22 18.20	-13 48.2	2.106	3.092	4.7	21.3	9 8	22 17.21	+ 0 24.7	2.195	3.183	4.3	19.1
9 18	22 11.72	-14 20.4	2.169	3.105	8.1	21.5	9 18	22 9.64	- 0 12.6	2.233	3.181	7.2	19.3
9 28	22 6.79	-14 41.5	2.256	3.118	11.1	21.7	9 28	22 3.53	- 0 49.5	2.297	3.178	10.1	19.5
204953	2008 <i>WN</i> ₄		8 27.9 58°51'	4°8'/24.2	16		272261	2005 <i>QZ</i> ₁₆₈		8 27.9 262°98'	5°9'/1.6	18	
7 20	22 54.37	-19 25.0	1.597	2.454	15.9	20.4	7 20	22 51.60	+ 6 10.4	1.800	2.571	17.7	20.7
7 30	22 50.20	-20 13.6	1.540	2.465	12.3	20.2	7 30	22 48.10	+ 6 39.4	1.700	2.556	15.1	20.4
8 9	22 43.48	-21 6.0	1.504	2.476	8.6	20.0	8 9	22 42.26	+ 6 48.2	1.619	2.541	11.9	20.2
8 19	22 34.87	-21 54.7	1.491	2.487	5.4	19.9	8 19	22 34.47	+ 6 35.2	1.558	2.526	8.6	20.0
8 29	22 25.41	-22 32.1	1.504	2.498	5.3	19.9	8 29	22 25.49	+ 6 0.6	1.523	2.511	6.1	19.8
9 8	22 16.31	-22 52.5	1.543	2.510	8.3	20.1	9 8	22 16.38	+ 5 8.2	1.513	2.495	6.6	19.8
9 18	22 8.66	-22 53.4	1.606	2.521	11.8	20.4	9 18	22 8.19	+ 4 4.1	1.528	2.479	9.6	19.9
9 28	22 3.31	-22 35.1	1.691	2.533	15.1	20.6	9 28	22 1.92	+ 2 56.2	1.568	2.463	13.2	20.1
265809	2005 <i>XN</i> ₃₅		8 27.9 264°57'	5°4'/2.6	17		4882	Divari		8 27.9 288°43'	2°4'/29.9	18	
7 20	22 48.83	+ 8 39.0	2.472	3.208	14.3	21.2	7 20	22 49.26	- 1 14.5	1.647	2.464	17.3	17.1
7 30	22 45.20	+ 9 3.9	2.366	3.195	12.2	21.0	7 30	22 46.37	- 1 25.4	1.557	2.453	14.0	16.8
8 9	22 39.85	+ 9 12.3	2.279	3.181	9.9	20.8	8 9	22 41.11	- 1 55.8	1.486	2.442	10.2	16.6
8 19	22 33.13	+ 9 3.1	2.215	3.167	7.4	20.7	8 19	22 33.90	- 2 44.0	1.437	2.431	5.8	16.3
8 29	22 25.61	+ 8 36.5	2.177	3.153	5.7	20.5	8 29	22 25.57	- 3 46.1	1.413	2.420	2.4	16.0
9 8	22 18.02	+ 7 55.2	2.166	3.139	5.8	20.5	9 8	22 17.21	- 4 55.0	1.416	2.410	5.1	16.2
9 18	22 11.09	+ 7 3.1	2.183	3.125	7.7	20.6	9 18	22 9.89	- 6 3.2	1.444	2.399	9.6	16.4
9 28	22 5.51	+ 6 5.8	2.225	3.110	10.2	20.8	9 28	22 4.59	- 7 3.5	1.495	2.388	13.8	16.7
266537	2008 <i>FP</i> ₈₄		8 27.9 24°13'	1°8'/26.7	17		482780	2013 <i>HV</i> ₆₉		8 27.9 229°13'	4°1'/1.9	18	
7 20	22 49.94	-11 1.6	1.136	2.008	19.9	19.7	7 20	22 48.54	+ 7 0.8	2.702	3.443	13.1	22.9
7 30	22 47.55	-11 28.5	1.083	2.016	15.5	19.4	7 30	22 44.79	+ 6 58.5	2.594	3.431	11.1	22.7
8 9	22 42.11	-12 10.0	1.047	2.026	10.4	19.2	8 9	22 39.48	+ 6 40.0	2.507	3.419	8.7	22.6
8 19	22 34.34	-12 59.4	1.032	2.036	4.9	18.9	8 19	22 32.94	+ 6 5.4	2.444	3.407	6.2	22.4
8 29	22 25.47	-13 48.3	1.039	2.048	2.3	18.8	8 29	22 25.71	+ 5 16.0	2.407	3.394	4.3	22.2
9 8	22 17.02	-14 27.8	1.070	2.060	7.3	19.1	9 8	22 18.42	+ 4 15.2	2.399	3.381	4.6	22.2
9 18	22 10.30	-14 52.1	1.124	2.073	12.4	19.5	9 18	22 11.74	+ 3 7.6	2.420	3.367	6.8	22.4
9 28	22 6.30	-14 58.1	1.197	2.088	16.7	19.8	9 28	22 6.29	+ 1 58.5	2.468	3.352	9.4	22.5
144378	2004 <i>DK</i> ₆₀		8 27.9 269°80'	0°4'/28.3	18		224283	2005 <i>TU</i> ₇₁		8 27.9 10°68'	7°0'/23.4	18	
7 20	22 49.95	- 6 18.0	2.004	2.824	14.5	20.6	7 20	22 50.95	-21 20.0	1.151	2.036	18.8	19.3
7 30	22 46.38	- 6 36.4	1.914	2.817	11.5	20.4	7 30	22 48.56	-22 20.9	1.099	2.038	14.8	19.1
8 9	22 40.79	- 7 7.4	1.846	2.810	7.9	20.1	8 9	22 42.94	-23 25.5	1.064	2.041	10.6	18.9
8 19	22 33.61	- 7 48.5	1.802	2.802	3.9	19.9	8 19	22 34.81	-24 23.3	1.051	2.045	7.4	18.7
8 29	22 25.56	- 8 35.1	1.785	2.795	0.5	19.6	8 29	22 25.48	-25 3.5	1.060	2.050	7.7	18.7
9 8	22 17.53	- 9 22.0	1.796	2.787	4.6	19.9	9 8	22 16.58	-25 18.3	1.091	2.056	11.0	18.9
9 18	22 10.41	-10 3.9	1.833	2.780	8.6	20.1	9 18	22 9.53	-25 5.6	1.143	2.064	15.1	19.2
9 28	22 4.99	-10 36.7	1.895	2.772	12.1	20.3	9 28	22 5.37	-24 26.9	1.214	2.072	18.8	19.5
121068	1999 <i>CT</i> ₁₄₇		8 27.9 327°52'	1°2'/26.8	18		507380	2012 <i>DA</i> ₁₀₀		8 27.9 203°77'	0°4'/28.2	17	
7 20	22 47.68	-10 47.4	1.981	2.821	13.9	19.7	7 20	22 51.87	- 4 42.4	1.615	2.441	17.1	22.1
7 30	22 44.67	-11 13.8	1.893	2.809	10.9	19.5	7 30	22 48.39	- 5 21.7	1.533	2.439	13.6	21.8
8 9	22 39.66	-11 50.1	1.826	2.798	7.3	19.3	8 9	22 42.45	- 6 19.7	1.471	2.436	9.4	21.6
8 19	22 33.08	-12 32.6	1.784	2.787	3.5	19.0	8 19	22 34.53	- 7 32.4	1.433	2.433	4.7	21.3
8 29	22 25.63	-13 16.3	1.768	2.776	1.5	18.9	8 29	22 25.51	- 8 53.3	1.420	2.430	0.6	21.0
9 8	22 18.20	-13 55.5	1.779	2.766	5.2	19.1	9 8	22 16.55	-10 13.7	1.434	2.426	5.4	21.4
9 18	22 11.68	-14 25.8	1.816	2.756	9.1	19.3	9 18	22 8.75	-11 25.7	1.474	2.422	10.2	21.6
9 28	22 6.84	-14 44.0	1.877	2.747	12.6	19.5	9 28	22 3.09	-12 23.3	1.538	2.417	14.3	21.9
469615	2004 <i>PT</i> ₁₀₇		8 27.9 0°80'	0°2'/31.3	15		37652	1994 <i>JS</i> ₁		8 27.9 114°11'	1°9'/30.2	18	
7 20	22 29.52	- 0 33.1	37.454	38.214	1.0	21.7	7 20	22 51.93	+ 1 32.7	2.337	3.110	14.0	19.3
7 30	22 28.83	- 0 34.6	37.355	38.214	0.8	21.7	7 30	22 47.37	+ 0 41.4	2.267	3.136	11.3	19.2
8 9	22 28.07	- 0 36.9	37.281	38.214	0.6	21.7	8 9	22 41.13	- 0 26.6	2.218	3.161	8.1	19.0
8 19	22 27.24	- 0 39.9	37.234	38.214	0.4	21.7	8 19	22 33.67	- 1 48.4	2.195	3.184	4.6	18.8
8 29	22 26.39	- 0 43.5	37.215	38.214	0.2	21.6	8 29	22 25.64	- 3 19.1	2.202	3.207	1.9	18.7
9 8	22 25.54	- 0 47.5	37.226	38.214	0.3	21.6	9 8	22 17.81	- 4 52.3	2.238	3.230	3.8	18.8
9 18	22 24.73	- 0 51.7	37.265	38.214	0.5	21.7	9 18	22 10.88	- 6 21.7	2.304	3.251	7.0	19.1
9 28	22 23.97	- 0 56.0	37.333	38.214	0.7	21.7	9 28	22 5.44	- 7 42.2	2.397	3.272	10.0	19.3
498961	2009 <i>BM</i> ₁₀₀		8 27.9 343°76'	1°3'/26.9	17		316511	2010 <i>VT</i> ₁₅₆		8 27.9 235°53'	3°8'/23.9	18	
7 20	22 43.73	- 7 28.1	1.003	1.885	21.2	20.8	7 20	22 51.66	-20 14.2	2.409	3.250	11.7	20.7
7 30	22 43.27	- 8 16.0	0.936	1.875	16.7	20.5	7 30	22 47.38	-20 54.8	2.330	3.245	9.2	20.5
8 9	22 39.66	- 9 28.6	0.885	1.867	11.4	20.2	8 9	22 41.27	-21 37.7	2.274	3.241	6.4	20.3
8 19	22 33.38	-10 59.8	0.854	1.859	5.3	19.8	8 19	22 33.80	-22 17.9	2.244	3.237	4.2	20.2
8 29	22 25.60	-12 38.3	0.844	1.853	1.9	19.6	8 29	22 25.62	-22 50.4	2.241	3.232	4.2	20.2
9 8	22 17.90	-14 10.0	0.856	1.848	7.9	20.0	9 8	22 17.54	-23 11.2	2.267	3.227	6.5	20.3
9 18	22 11.84	-15 23.1	0.889	1.845	13.9	20.3	9 18	22 10.34	-23 17.7	2.319	3.222	9.2	20.5
9 28	22 8.69	-16 10.2	0.940	1.842	19.0	20.6	9 28	22 4.69	-23 9.3	2.395	3.218	11.8	20.7
285489	2000 <i>CL</i> ₉₉		8 27.9 266°85'	0°3'/28.1	18		390042	2012 <i>UB</i> ₅₉					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
171823	2001 <i>FS</i> ₂₅		8 27.9 221°61	0°8/28.5	18		9639	Scherer		8 27.9 312°06	1°8/29.2	18	
7 20	22 56.01	- 6 23.5	1.792	2.609	16.1	20.1	7 20	22 50.70	- 3 28.1	1.500	2.330	18.1	17.5
7 30	22 51.43	- 6 25.8	1.702	2.602	12.8	19.9	7 30	22 47.67	- 3 34.5	1.419	2.324	14.6	17.2
8 9	22 44.43	- 6 40.8	1.632	2.594	9.0	19.6	8 9	22 42.08	- 3 59.2	1.357	2.319	10.3	16.9
8 19	22 35.47	- 7 6.3	1.586	2.585	4.6	19.4	8 19	22 34.41	- 4 40.2	1.316	2.314	5.6	16.7
8 29	22 25.41	- 7 38.1	1.567	2.577	0.8	19.1	8 29	22 25.58	- 5 32.5	1.301	2.309	1.8	16.4
9 8	22 15.36	- 8 11.0	1.576	2.567	5.1	19.4	9 8	22 16.80	- 6 29.1	1.310	2.304	5.4	16.6
9 18	22 6.41	- 8 39.9	1.611	2.557	9.5	19.6	9 18	22 9.25	- 7 22.6	1.345	2.300	10.2	16.9
9 28	21 59.51	- 9 0.6	1.670	2.547	13.5	19.8	9 28	22 3.93	- 8 6.7	1.402	2.296	14.5	17.2
447683	2007 <i>BB</i> ₄		8 27.9 220°47	1°8/29.9	18		4496	Kamimachi		8 27.9 206°90	0°3/28.3	18	
7 20	22 49.87	- 2 2.8	2.512	3.302	12.7	21.9	7 20	22 49.25	- 5 38.3	2.146	2.962	13.8	17.8
7 30	22 45.88	- 2 7.4	2.416	3.296	10.3	21.8	7 30	22 45.68	- 6 9.6	2.060	2.960	10.9	17.6
8 9	22 40.24	- 2 24.0	2.341	3.290	7.4	21.6	8 9	22 40.25	- 6 54.0	1.995	2.958	7.5	17.4
8 19	22 33.32	- 2 51.2	2.292	3.283	4.3	21.4	8 19	22 33.37	- 7 48.3	1.956	2.956	3.7	17.2
8 29	22 25.70	- 3 26.4	2.271	3.277	1.9	21.2	8 29	22 25.73	- 8 48.0	1.943	2.953	0.4	16.9
9 8	22 18.10	- 4 6.0	2.278	3.269	3.7	21.3	9 8	22 18.13	- 9 47.5	1.959	2.951	4.3	17.2
9 18	22 11.19	- 4 45.8	2.313	3.262	6.9	21.5	9 18	22 11.39	- 10 41.4	2.003	2.948	8.1	17.4
9 28	22 5.64	- 5 22.1	2.375	3.254	9.9	21.7	9 28	22 6.21	- 11 25.6	2.071	2.945	11.4	17.6
137784	1999 <i>XV</i> ₂₂₈		8 27.9 280°72	0°3/28.2	18		174071	2002 <i>ER</i> ₉₉		8 27.9 226°46	5°0/24.1	18	
7 20	22 52.54	- 7 0.0	1.561	2.396	17.2	20.6	7 20	22 55.30	- 18 1.8	1.502	2.359	16.7	20.0
7 30	22 49.20	- 7 10.6	1.468	2.379	13.8	20.3	7 30	22 51.41	- 19 4.2	1.429	2.355	13.1	19.8
8 9	22 43.20	- 7 36.2	1.395	2.362	9.6	20.0	8 9	22 44.68	- 20 14.3	1.377	2.350	9.1	19.6
8 19	22 35.00	- 8 14.0	1.344	2.345	4.8	19.7	8 19	22 35.68	- 21 23.8	1.349	2.345	5.7	19.4
8 29	22 25.48	- 8 59.1	1.318	2.328	0.6	19.3	8 29	22 25.46	- 22 23.1	1.345	2.340	5.6	19.3
9 8	22 15.84	- 9 44.4	1.318	2.310	5.7	19.7	9 8	22 15.39	- 23 4.2	1.367	2.335	9.0	19.5
9 18	22 7.35	- 10 23.6	1.343	2.293	10.7	19.9	9 18	22 6.75	- 23 22.5	1.413	2.329	13.1	19.8
9 28	22 1.09	- 10 51.2	1.391	2.276	15.2	20.1	9 28	22 0.61	- 23 17.4	1.480	2.323	16.8	20.0
354225	2002 <i>HY</i>		8 27.9 41°01	8°0/24.2	17		477560	2010 <i>GX</i> ₁₀₉		8 27.9 115°61	3°3/24.9	18	
7 20	23 10.90	- 31 52.3	1.643	2.475	16.7	18.9	7 20	22 51.90	- 15 44.5	1.929	2.773	14.0	21.1
7 30	23 2.46	- 32 2.7	1.611	2.510	13.5	18.8	7 30	22 47.94	- 16 37.7	1.860	2.779	10.9	20.9
8 9	22 51.26	- 32 2.5	1.599	2.545	10.4	18.7	8 9	22 41.85	- 17 37.7	1.813	2.785	7.3	20.8
8 19	22 38.35	- 31 44.6	1.612	2.581	8.3	18.7	8 19	22 34.15	- 18 38.6	1.792	2.791	4.1	20.6
8 29	22 25.14	- 31 4.5	1.652	2.617	8.2	18.8	8 29	22 25.66	- 19 33.5	1.797	2.797	3.7	20.6
9 8	22 13.08	- 30 2.1	1.718	2.653	10.1	18.9	9 8	22 17.35	- 20 16.7	1.830	2.802	6.7	20.8
9 18	22 3.23	- 28 41.2	1.809	2.689	12.6	19.2	9 18	22 10.14	- 20 44.3	1.889	2.808	10.1	21.0
9 28	21 56.25	- 27 6.9	1.923	2.726	15.1	19.4	9 28	22 4.78	- 20 54.7	1.970	2.813	13.2	21.2
252118	2000 <i>WU</i> ₆₅		8 27.9 359°65	0°8/28.7	18		253378	2003 <i>HJ</i> ₅₅		8 27.9 327°61	0°3/28.2	18	
7 20	22 48.82	- 5 21.4	2.055	2.873	14.3	21.2	7 20	22 47.01	- 5 16.2	2.089	2.910	14.0	20.7
7 30	22 45.40	- 5 35.9	1.972	2.873	11.3	21.0	7 30	22 44.01	- 5 55.3	2.004	2.907	11.0	20.5
8 9	22 40.07	- 6 3.0	1.911	2.872	7.9	20.8	8 9	22 39.15	- 6 48.4	1.940	2.904	7.6	20.3
8 19	22 33.28	- 6 40.2	1.873	2.872	4.0	20.5	8 19	22 32.87	- 7 52.4	1.901	2.902	3.7	20.1
8 29	22 25.72	- 7 23.5	1.863	2.872	0.8	20.3	8 29	22 25.82	- 9 2.2	1.889	2.899	0.4	19.8
9 8	22 18.24	- 8 7.9	1.880	2.873	4.3	20.5	9 8	22 18.82	- 10 11.5	1.905	2.897	4.4	20.1
9 18	22 11.66	- 8 48.5	1.924	2.873	8.1	20.8	9 18	22 12.66	- 11 14.6	1.949	2.895	8.2	20.3
9 28	22 6.70	- 9 21.2	1.993	2.874	11.5	21.0	9 28	22 8.05	- 12 6.8	2.017	2.893	11.6	20.5
9835	1984 <i>UD</i>		8 27.9 303°86	5°2/23.9	18		13761	Dorristaylor		8 27.9 149°82	0°3/28.2	18	
7 20	22 53.37	- 20 36.4	1.731	2.586	14.9	17.5	7 20	22 53.06	- 5 42.6	1.836	2.655	15.7	18.7
7 30	22 49.76	- 21 19.1	1.636	2.560	11.8	17.2	7 30	22 48.92	- 6 12.9	1.760	2.661	12.4	18.5
8 9	22 43.54	- 22 6.1	1.563	2.534	8.5	17.0	8 9	22 42.57	- 6 57.7	1.704	2.668	8.5	18.3
8 19	22 35.16	- 22 50.6	1.514	2.508	5.6	16.7	8 19	22 34.53	- 7 53.6	1.673	2.673	4.2	18.0
8 29	22 25.48	- 23 24.9	1.490	2.482	5.7	16.7	8 29	22 25.62	- 8 55.0	1.669	2.679	0.5	17.7
9 8	22 15.70	- 23 42.2	1.492	2.456	8.8	16.8	9 8	22 16.86	- 9 55.3	1.692	2.683	4.9	18.1
9 18	22 7.05	- 23 39.0	1.517	2.430	12.6	17.0	9 18	22 9.19	- 10 48.5	1.742	2.688	9.0	18.4
9 28	22 0.60	- 23 14.4	1.565	2.405	16.2	17.2	9 28	22 3.44	- 11 30.3	1.817	2.692	12.7	18.6
329278	1999 <i>VA</i> ₁₀₇		8 27.9 289°56	9°2/20.7	18		513754	2012 <i>VJ</i> ₁₁₀		8 27.9 236°18	1°3/26.8	18	
7 20	22 55.41	- 27 25.1	1.455	2.321	16.6	20.8	7 20	22 50.67	- 10 5.6	1.969	2.802	14.3	22.0
7 30	22 51.91	- 28 50.7	1.384	2.306	13.6	20.6	7 30	22 47.03	- 10 45.5	1.884	2.796	11.2	21.8
8 9	22 45.27	- 30 16.3	1.332	2.292	10.8	20.4	8 9	22 41.30	- 11 36.6	1.821	2.790	7.5	21.6
8 19	22 36.04	- 31 30.6	1.304	2.277	9.2	20.3	8 19	22 33.94	- 12 34.8	1.782	2.784	3.5	21.3
8 29	22 25.38	- 32 22.2	1.299	2.263	10.1	20.3	8 29	22 25.69	- 13 34.1	1.770	2.778	1.6	21.2
9 8	22 14.81	- 32 43.0	1.317	2.248	12.8	20.4	9 8	22 17.48	- 14 28.3	1.786	2.772	5.4	21.4
9 18	22 5.85	- 32 30.6	1.356	2.234	16.1	20.6	9 18	22 10.23	- 15 12.3	1.829	2.765	9.3	21.6
9 28	21 59.67	- 31 47.5	1.414	2.220	19.3	20.8	9 28	22 4.73	- 15 42.4	1.896	2.759	12.8	21.8
296689	2009 <i>SD</i> ₂₄₂		8 27.9 4°10	4°8/1.4	18		510679	2012 <i>UY</i> ₄₈		8 27.9 345°40	0°9/28.7	18	
7 20	22 48.88	+ 4 30.0	2.067	2.841	15.6	19.9	7 20	22 49.50	- 4 43.6	1.679	2.507	16.5	21.5
7 30	22 45.46	+ 4 58.7	1.981	2.841	13.1	19.7	7 30	22 46.42	- 5 2.9	1.599	2.505	13.2	21.3
8 9	22 40.14	+ 5 10.7	1.915	2.841	10.1	19.5	8 9	22 41.04	- 5 38.4	1.539	2.503	9.2	21.0
8 19	22 33.33	+ 5 5.4	1.871	2.841	7.1	19.4	8 19	22 33.86	- 6 27.3	1.502	2.501	4.7	20.8
8 29	22 25.72	+ 4 43.9	1.852	2.842	5.0	19.2	8 29	22 25.71	- 7 24.2	1.491	2.500	0.9	20.5
9 8	22 18.16	+ 4 9.6	1.861	2.844	5.5	19.3	9 8	22 17.65	- 8 22.5	1.506	2.499	5.0	20.8
9 18	22 11.48	+ 3 27.3	1.895	2.846	8.1	19.4	9 18	22 10.69	- 9 15.7	1.547	2.498	9.4	21.1
9 28	22 6.40	+ 2 42.5	1.954	2.848	11.1	19.6	9 28	22 5.70	- 9 58.2	1.611	2.498	13.4	21.3
88106	2000 <i>WD</i> ₈₉												

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
411623	2011 <i>UM</i> ₃₈		8 27.9 330°72	1.2°/27.1	17		1344	Caubeta		8 27.9 126°55	4°0/24.9	18	
7 20	22 51.77	- 8 47.2	1.225	2.083	19.6	21.4	7 20	22 56.93	-16 9.3	1.548	2.397	16.6	16.4
7 30	22 49.08	- 9 21.6	1.154	2.080	15.5	21.2	7 30	22 52.36	-17 5.8	1.487	2.408	12.9	16.2
8 9	22 43.34	-10 14.0	1.102	2.077	10.5	20.9	8 9	22 45.11	-18 10.1	1.446	2.418	8.8	16.0
8 19	22 35.12	-11 18.9	1.071	2.075	5.0	20.6	8 19	22 35.81	-19 14.5	1.429	2.428	5.0	15.8
8 29	22 25.56	-12 27.5	1.064	2.073	1.6	20.3	8 29	22 25.54	-20 10.4	1.438	2.437	4.5	15.8
9 8	22 16.13	-13 29.8	1.080	2.071	7.1	20.7	9 8	22 15.59	-20 50.7	1.474	2.446	7.9	16.0
9 18	22 8.28	-14 17.7	1.120	2.069	12.5	21.0	9 18	22 7.14	-21 11.5	1.534	2.455	11.9	16.3
9 28	22 3.14	-14 46.2	1.180	2.068	17.1	21.2	9 28	22 1.09	-21 11.9	1.616	2.463	15.4	16.5
344685	2003 <i>SH</i> ₂₇₂		8 27.9 343°73	2°4/29.7	18		436627	2011 <i>MF</i> ₅		8 27.9 27°33	9°5/3.7	18	
7 20	22 48.38	- 3 2.7	1.459	2.293	18.3	20.4	7 20	22 52.44	+ 9 7.6	1.328	2.110	22.4	19.6
7 30	22 45.94	- 2 52.7	1.378	2.285	14.8	20.1	7 30	22 49.16	+10 39.6	1.271	2.125	19.2	19.4
8 9	22 40.95	- 3 0.4	1.316	2.278	10.6	19.9	8 9	22 43.11	+11 46.0	1.230	2.141	15.8	19.3
8 19	22 33.91	- 3 24.5	1.275	2.271	6.0	19.6	8 19	22 34.92	+12 22.3	1.208	2.158	12.4	19.1
8 29	22 25.72	- 4 1.3	1.259	2.266	2.4	19.3	8 29	22 25.66	+12 27.1	1.207	2.177	9.9	19.0
9 8	22 17.57	- 4 44.7	1.266	2.261	5.4	19.5	9 8	22 16.70	+12 3.8	1.228	2.196	9.8	19.1
9 18	22 10.63	- 5 27.7	1.299	2.257	10.1	19.8	9 18	22 9.25	+11 19.4	1.272	2.216	11.8	19.3
9 28	22 5.91	- 6 4.1	1.353	2.254	14.4	20.0	9 28	22 4.29	+10 23.6	1.338	2.237	14.6	19.5
521302	2015 <i>KC</i> ₁₆₉		8 27.9 75°03	5°0/1.7	16		362828	2012 <i>AS</i> ₈		8 27.9 60°81	4°6/22.5	18	
7 20	22 52.47	+ 5 35.9	2.044	2.805	16.2	20.9	7 20	22 47.81	-19 3.6	2.172	3.023	12.4	20.4
7 30	22 48.10	+ 6 2.2	1.975	2.826	13.5	20.7	7 30	22 44.62	-20 34.3	2.107	3.030	9.6	20.3
8 9	22 41.81	+ 6 10.4	1.926	2.846	10.4	20.6	8 9	22 39.56	-22 9.8	2.067	3.036	6.8	20.1
8 19	22 34.10	+ 6 0.3	1.900	2.867	7.4	20.4	8 19	22 33.08	-23 43.2	2.052	3.043	4.7	20.0
8 29	22 25.71	+ 5 33.7	1.900	2.887	5.2	20.3	8 29	22 25.88	-25 6.9	2.066	3.050	5.2	20.0
9 8	22 17.53	+ 4 54.3	1.927	2.908	5.6	20.4	9 8	22 18.80	-26 14.9	2.107	3.057	7.6	20.2
9 18	22 10.38	+ 4 7.3	1.980	2.928	8.0	20.6	9 18	22 12.64	-27 3.3	2.173	3.064	10.3	20.4
9 28	22 4.93	+ 3 18.5	2.059	2.948	10.8	20.8	9 28	22 8.07	-27 30.8	2.262	3.071	12.9	20.6
478836	2012 <i>VG</i> ₄₀		8 27.9 5°88	5°3/23.5	18		124118	2001 <i>JK</i> ₈		8 27.9 232°72	6°9/19.7	18	
7 20	22 52.48	-20 37.2	1.680	2.539	15.1	20.5	7 20	22 52.63	-31 21.0	2.508	3.348	11.3	19.4
7 30	22 48.82	-21 33.6	1.614	2.539	11.8	20.3	7 30	22 48.26	-32 28.1	2.443	3.345	9.4	19.3
8 9	22 42.68	-22 33.5	1.569	2.539	8.4	20.1	8 9	22 41.96	-33 30.7	2.401	3.341	7.7	19.2
8 19	22 34.64	-23 29.4	1.547	2.540	5.7	19.9	8 19	22 34.22	-34 22.8	2.385	3.338	6.9	19.1
8 29	22 25.64	-24 13.4	1.551	2.541	5.9	19.9	8 29	22 25.75	-34 58.4	2.396	3.335	7.5	19.2
9 8	22 16.87	-24 39.4	1.581	2.542	8.7	20.1	9 8	22 17.44	-35 14.0	2.431	3.331	9.1	19.3
9 18	22 9.39	-24 44.5	1.635	2.543	12.1	20.3	9 18	22 10.10	-35 8.5	2.491	3.328	11.1	19.4
9 28	22 4.10	-24 28.6	1.710	2.545	15.3	20.5	9 28	22 4.41	-34 42.8	2.573	3.324	13.0	19.5
386966	2011 <i>WC</i> ₅₁		8 27.9 240°47	1°3/25.5	16		11884	1990 <i>RD</i> ₆		8 27.9 18°95	1°7/27.1	18	
7 20	22 42.76	-15 5.2	4.461	5.285	7.0	21.6	7 20	22 57.83	-14 43.1	1.342	2.197	18.4	17.0
7 30	22 39.64	-15 33.5	4.374	5.283	5.4	21.5	7 30	22 53.36	-14 21.5	1.280	2.203	14.4	16.8
8 9	22 35.66	-16 4.4	4.312	5.281	3.6	21.3	8 9	22 45.91	-14 5.3	1.236	2.210	9.8	16.5
8 19	22 31.04	-16 36.0	4.278	5.279	1.9	21.2	8 19	22 36.23	-13 50.8	1.215	2.218	4.7	16.3
8 29	22 26.10	-17 6.1	4.274	5.276	1.5	21.2	8 29	22 25.52	-13 33.4	1.218	2.227	2.0	16.1
9 8	22 21.19	-17 32.4	4.299	5.274	3.1	21.3	9 8	22 15.24	-13 9.5	1.247	2.237	6.6	16.4
9 18	22 16.66	-17 53.3	4.353	5.272	4.9	21.4	9 18	22 6.69	-12 37.2	1.301	2.247	11.3	16.7
9 28	22 12.83	-18 7.5	4.434	5.269	6.6	21.5	9 28	22 0.83	-11 56.1	1.376	2.259	15.5	17.0
52504	1996 <i>FQ</i> ₂		8 27.9 153°16	0°1/27.9	18		5504	Lanzerotti		8 27.9 127°33	7°7/20.8	18	
7 20	22 53.99	- 7 1.1	1.887	2.706	15.3	20.7	7 20	22 55.96	-28 21.9	1.870	2.720	14.2	16.9
7 30	22 49.59	- 7 25.6	1.810	2.712	12.1	20.5	7 30	22 51.38	-29 41.1	1.814	2.726	11.5	16.8
8 9	22 43.01	- 8 2.9	1.754	2.718	8.2	20.3	8 9	22 44.33	-30 57.1	1.780	2.732	9.1	16.6
8 19	22 34.75	- 8 49.5	1.723	2.723	4.0	20.0	8 19	22 35.42	-32 1.3	1.771	2.738	7.8	16.6
8 29	22 25.65	- 9 40.2	1.719	2.728	0.5	19.7	8 29	22 25.63	-32 45.7	1.787	2.744	8.4	16.6
9 8	22 16.69	-10 29.1	1.742	2.733	4.9	20.1	9 8	22 16.13	-33 5.5	1.829	2.749	10.5	16.8
9 18	22 8.82	-11 11.1	1.793	2.737	8.9	20.4	9 18	22 7.99	-32 59.5	1.893	2.754	13.0	16.9
9 28	22 2.85	-11 42.1	1.868	2.740	12.5	20.6	9 28	22 2.07	-32 29.7	1.979	2.759	15.5	17.1
358339	2006 <i>VM</i> ₁₀₃		8 27.9 305°09	0°8/27.2	18		350191	2011 <i>UG</i> ₄₀₂		8 27.9 286°36	0°5/26.9	17	
7 20	22 48.38	- 9 10.0	1.895	2.731	14.6	21.1	7 20	22 42.29	-10 30.7	4.254	5.068	7.5	21.1
7 30	22 45.41	- 9 42.0	1.802	2.716	11.5	20.9	7 30	22 39.34	-10 59.0	4.162	5.064	5.8	21.0
8 9	22 40.33	-10 26.4	1.730	2.700	7.8	20.6	8 9	22 35.50	-11 31.9	4.094	5.060	3.9	20.8
8 19	22 33.55	-11 19.4	1.682	2.685	3.7	20.3	8 19	22 31.00	-12 7.6	4.055	5.056	1.8	20.7
8 29	22 25.78	-12 15.6	1.661	2.670	1.2	20.1	8 29	22 26.16	-12 43.8	4.044	5.052	0.7	20.6
9 8	22 17.98	-13 8.6	1.666	2.655	5.3	20.4	9 8	22 21.34	-13 18.2	4.063	5.049	2.7	20.7
9 18	22 11.09	-13 52.7	1.698	2.640	9.5	20.6	9 18	22 16.90	-13 48.6	4.112	5.045	4.7	20.9
9 28	22 5.96	-14 23.9	1.753	2.626	13.2	20.8	9 28	22 13.18	-14 13.3	4.187	5.041	6.6	21.0
315789	2008 <i>FC</i> ₁₃₀		8 27.9 185°80	4°9/22.9	18		476968	2008 <i>YO</i> ₁₃		8 27.9 299°38	2°3/26.0	18	
7 20	22 52.87	-23 6.2	2.318	3.161	12.0	21.0	7 20	22 49.58	-11 48.3	1.678	2.527	15.6	21.1
7 30	22 48.43	-23 57.7	2.246	3.161	9.5	20.8	7 30	22 46.81	-12 33.0	1.580	2.502	12.3	20.8
8 9	22 42.06	-24 49.8	2.198	3.160	6.9	20.6	8 9	22 41.59	-13 30.9	1.502	2.476	8.4	20.5
8 19	22 34.25	-25 36.7	2.175	3.160	5.1	20.5	8 19	22 34.31	-14 37.1	1.448	2.451	4.1	20.2
8 29	22 25.71	-26 12.9	2.179	3.159	5.3	20.5	8 29	22 25.74	-15 44.3	1.420	2.426	2.7	20.1
9 8	22 17.33	-26 33.9	2.211	3.159	7.4	20.7	9 8	22 17.01	-16 44.4	1.417	2.400	6.8	20.3
9 18	22 9.91	-26 37.9	2.269	3.158	10.1	20.8	9 18	22 9.26	-17 30.6	1.440	2.375	11.4	20.5
9 28	22 4.16	-26 24.6	2.350	3.156	12.5	21.0	9 28	22 3.56	-17 58.5	1.484	2.351	15.5	20.7
55807	1994 <i>PM</i> ₃₈		8 27.9 35°84	2°1/29.3	18		99426	2002 <i>AX</i> ₁₉₀		8 27.9 239°30	4°7/24.1	18	

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
180160	2003 <i>GR</i> ₅₄		8 27.9 65°31'	0.7/28.7	18		66155	1998 <i>UR</i> ₂₄		8 27.9 321°17'	1.2/26.8	18	
7 20	22 47.83	- 4 16.1	2.092	2.907	14.1	20.2	7 20	22 47.34	-10 38.5	1.938	2.779	14.1	19.2
7 30	22 44.59	- 4 50.9	2.014	2.912	11.2	20.0	7 30	22 44.60	-11 8.3	1.843	2.760	11.1	18.9
8 9	22 39.53	- 5 40.0	1.957	2.918	7.8	19.8	8 9	22 39.80	-11 48.8	1.770	2.742	7.5	18.7
8 19	22 33.08	- 6 40.1	1.925	2.924	3.9	19.6	8 19	22 33.34	-12 36.4	1.720	2.723	3.6	18.4
8 29	22 25.92	- 7 46.4	1.920	2.930	0.7	19.4	8 29	22 25.93	-13 25.7	1.697	2.706	1.6	18.2
9 8	22 18.86	- 8 52.9	1.943	2.935	4.2	19.7	9 8	22 18.48	-14 10.7	1.701	2.688	5.4	18.4
9 18	22 12.69	- 9 54.1	1.993	2.941	7.9	19.9	9 18	22 11.89	-14 46.4	1.731	2.672	9.4	18.6
9 28	22 8.08	-10 45.3	2.069	2.947	11.2	20.1	9 28	22 7.01	-15 9.0	1.784	2.655	13.1	18.8
53312	1999 <i>JZ</i>		8 27.9 259°13'	10.9/11.9	18		60745	2000 <i>GQ</i> ₉₃		8 27.9 209°98'	7.1/20.0	18	
7 20	23 1.42	-44 50.4	2.493	3.294	12.5	19.0	7 20	22 54.76	-29 34.1	2.285	3.127	12.2	19.4
7 30	22 55.96	-46 34.3	2.424	3.269	11.5	18.9	7 30	22 50.15	-30 51.1	2.217	3.122	10.0	19.2
8 9	22 47.74	-48 7.6	2.378	3.243	10.9	18.8	8 9	22 43.40	-32 5.2	2.172	3.117	8.1	19.1
8 19	22 37.24	-49 21.4	2.355	3.216	11.1	18.8	8 19	22 35.00	-33 9.2	2.152	3.112	7.1	19.1
8 29	22 25.41	-50 8.1	2.355	3.188	11.9	18.8	8 29	22 25.75	-33 56.0	2.159	3.106	7.8	19.1
9 8	22 13.55	-50 23.3	2.377	3.160	13.3	18.9	9 8	22 16.62	-34 21.3	2.192	3.099	9.6	19.2
9 18	22 2.94	-50 6.8	2.418	3.131	14.8	18.9	9 18	22 8.55	-34 23.3	2.248	3.093	11.9	19.3
9 28	21 54.68	-49 21.7	2.477	3.102	16.2	19.0	9 28	22 2.31	-34 3.2	2.326	3.086	14.0	19.5
79713	1998 <i>SV</i> ₁₀₄		8 27.9 76°15'	4.6/24.5	18		112558	2002 <i>PS</i> ₄₆		8 27.9 354°40'	0.5/28.2	18	
7 20	22 54.37	-17 25.0	1.486	2.345	16.7	19.0	7 20	22 48.11	- 8 55.2	1.022	1.900	21.2	18.2
7 30	22 50.51	-18 22.7	1.426	2.352	13.0	18.8	7 30	22 46.70	- 8 33.9	0.957	1.892	16.9	17.9
8 9	22 43.94	-19 27.2	1.386	2.360	8.9	18.6	8 9	22 42.01	- 8 27.6	0.908	1.886	11.7	17.6
8 19	22 35.30	-20 30.6	1.370	2.368	5.3	18.4	8 19	22 34.63	- 8 33.5	0.878	1.882	5.8	17.3
8 29	22 25.67	-21 24.0	1.379	2.376	5.1	18.4	8 29	22 25.79	- 8 46.4	0.869	1.879	0.7	16.9
9 8	22 16.35	-22 0.2	1.414	2.384	8.4	18.6	9 8	22 17.12	- 8 59.4	0.882	1.878	6.8	17.3
9 18	22 8.53	-22 15.5	1.472	2.392	12.4	18.9	9 18	22 10.21	- 9 6.2	0.916	1.879	12.6	17.6
9 28	22 3.13	-22 9.4	1.552	2.400	15.9	19.1	9 28	22 6.25	- 9 2.2	0.969	1.881	17.7	17.9
407960	2012 <i>DA</i> ₂₀		8 27.9 199°55'	3.7/24.1	18		292741	2006 <i>UH</i> ₁₇₂		8 27.9 262°73'	2.6/30.4	18	
7 20	22 54.47	-21 47.7	2.642	3.474	11.1	20.8	7 20	22 51.05	- 1 3.8	2.281	3.070	13.9	20.5
7 30	22 49.39	-22 14.9	2.562	3.472	8.7	20.6	7 30	22 47.02	- 0 49.7	2.189	3.066	11.3	20.3
8 9	22 42.58	-22 42.3	2.506	3.469	6.1	20.5	8 9	22 41.17	- 0 48.1	2.117	3.062	8.3	20.1
8 19	22 34.49	-23 5.8	2.477	3.467	4.1	20.3	8 19	22 33.91	- 0 58.4	2.070	3.057	5.1	19.9
8 29	22 25.77	-23 21.1	2.476	3.465	4.1	20.3	8 29	22 25.88	- 1 18.5	2.049	3.052	2.7	19.8
9 8	22 17.19	-23 25.1	2.504	3.462	6.1	20.5	9 8	22 17.88	- 1 45.2	2.057	3.048	4.2	19.9
9 18	22 9.48	-23 16.2	2.559	3.459	8.6	20.6	9 18	22 10.66	- 2 14.4	2.093	3.043	7.4	20.1
9 28	22 3.26	-22 54.3	2.639	3.456	11.0	20.8	9 28	22 4.95	- 2 42.1	2.154	3.039	10.5	20.2
221058	2005 <i>QU</i> ₁₄₂		8 27.9 344°89'	7.5/23.7	18		286871	2002 <i>OD</i> ₁₅		8 27.9 2°12'	8.7/3.1	18	
7 20	22 49.71	-22 20.5	1.065	1.957	19.4	19.0	7 20	22 49.15	+ 8 10.2	1.437	2.222	20.8	19.5
7 30	22 48.13	-23 4.4	1.001	1.944	15.5	18.7	7 30	22 46.62	+ 9 26.6	1.362	2.220	17.9	19.3
8 9	22 43.07	-23 51.2	0.954	1.932	11.3	18.4	8 9	22 41.50	+10 20.4	1.304	2.220	14.7	19.1
8 19	22 35.14	-24 30.7	0.926	1.921	8.0	18.2	8 19	22 34.26	+10 47.5	1.264	2.220	11.4	18.9
8 29	22 25.68	-24 51.5	0.920	1.912	8.1	18.2	8 29	22 25.84	+10 46.4	1.247	2.222	9.0	18.8
9 8	22 16.44	-24 45.7	0.935	1.905	11.7	18.4	9 8	22 17.47	+10 19.8	1.252	2.225	9.0	18.8
9 18	22 9.09	-24 10.8	0.970	1.899	16.2	18.6	9 18	22 10.34	+ 9 33.9	1.280	2.228	11.3	19.0
9 28	22 4.88	-23 9.1	1.022	1.896	20.3	18.8	9 28	22 5.49	+ 8 37.5	1.330	2.233	14.4	19.2
340162	2005 <i>YD</i> ₁₂₀		8 27.9 117°84'	1.7/26.4	18		153275	2001 <i>DA</i> ₁₀		8 27.9 61°65'	3.8/23.7	18	
7 20	22 51.92	-10 44.5	1.839	2.675	15.0	20.9	7 20	22 48.82	-18 9.9	2.237	3.084	12.3	19.9
7 30	22 48.04	-11 35.3	1.769	2.684	11.6	20.7	7 30	22 45.33	-19 13.6	2.168	3.089	9.5	19.8
8 9	22 41.99	-12 37.3	1.722	2.693	7.8	20.5	8 9	22 40.01	-20 21.8	2.123	3.093	6.6	19.6
8 19	22 34.30	-13 45.1	1.699	2.701	3.7	20.3	8 19	22 33.33	-21 28.8	2.103	3.098	4.2	19.4
8 29	22 25.80	-14 51.9	1.703	2.710	2.1	20.2	8 29	22 25.97	-22 28.5	2.111	3.103	4.2	19.5
9 8	22 17.47	-15 51.0	1.734	2.718	5.8	20.4	9 8	22 18.73	-23 15.6	2.146	3.107	6.7	19.6
9 18	22 10.27	-16 37.1	1.792	2.726	9.7	20.7	9 18	22 12.39	-23 46.7	2.207	3.112	9.5	19.8
9 28	22 4.95	-17 7.4	1.874	2.733	13.1	20.9	9 28	22 7.61	-24 0.7	2.292	3.117	12.2	20.0
409214	2003 <i>WV</i> ₈₇		8 27.9 200°05'	1.6/26.3	17		191863	2004 <i>XG</i> ₁₉		8 27.9 246°64'	3.0/25.8	17	
7 20	22 55.15	-11 33.5	2.465	3.279	12.3	22.5	7 20	22 55.28	-13 43.2	1.562	2.409	16.6	21.0
7 30	22 50.11	-12 21.2	2.371	3.274	9.6	22.3	7 30	22 51.39	-14 26.9	1.477	2.398	13.1	20.7
8 9	22 43.22	-13 17.4	2.301	3.267	6.4	22.1	8 9	22 44.76	-15 21.7	1.413	2.386	8.9	20.4
8 19	22 34.88	-14 18.2	2.259	3.260	3.1	21.8	8 19	22 35.86	-16 21.5	1.372	2.373	4.6	20.2
8 29	22 25.74	-15 18.4	2.245	3.251	1.9	21.7	8 29	22 25.66	-17 18.3	1.357	2.361	3.4	20.1
9 8	22 16.60	-16 12.6	2.262	3.242	5.0	21.9	9 8	22 15.44	-18 4.0	1.367	2.348	7.4	20.3
9 18	22 8.25	-16 56.7	2.307	3.231	8.3	22.1	9 18	22 6.50	-18 33.0	1.403	2.334	12.0	20.5
9 28	22 1.41	-17 27.9	2.378	3.219	11.3	22.3	9 28	21 59.93	-18 42.5	1.461	2.320	16.1	20.7
389464	2010 <i>EY</i> ₃₁		8 27.9 130°41'	1.3/26.9	16		220683	2004 <i>RJ</i> ₂₂₇		8 27.9 71°33'	0.0/27.9	18	
7 20	22 53.37	-11 4.0	1.968	2.797	14.4	22.1	7 20	22 50.97	- 8 14.7	2.211	3.030	13.3	20.2
7 30	22 49.02	-11 32.1	1.894	2.804	11.2	21.9	7 30	22 46.88	- 8 26.8	2.138	3.040	10.5	20.0
8 9	22 42.59	-12 9.5	1.842	2.811	7.5	21.7	8 9	22 40.99	- 8 48.3	2.087	3.051	7.1	19.8
8 19	22 34.58	-12 51.8	1.816	2.818	3.6	21.5	8 19	22 33.77	- 9 16.2	2.061	3.062	3.4	19.6
8 29	22 25.80	-13 33.9	1.816	2.824	1.6	21.4	8 29	22 25.92	- 9 46.9	2.063	3.072	0.4	19.4
9 8	22 17.18	-14 10.3	1.845	2.830	5.2	21.6	9 8	22 18.24	-10 16.0	2.093	3.083	4.2	19.7
9 18	22 9.64	-14 37.1	1.900	2.836	9.0	21.9	9 18	22 11.47	-10 40.1	2.150	3.094	7.7	20.0
9 28	22 3.91	-14 51.7	1.979	2.842	12.3	22.1	9 28	22 6.27	-10 56.1	2.233	3.104	10.8	20.2
77343	2001 <i>FN</i> ₁₀₂		8 27.9 192°77'	0.1/27.9	17		70888	1999 <i>VA</i> ₁₆₇					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
319386	2006 <i>DH</i> ₂₀₂		8 27.9 159°82	1.8/26.1	18		326147	2012 <i>BA</i> ₅₄		8 27.9 145°39	1.6/26.7	17	
7 20	22 51.80	-14 37.7	2.522	3.350	11.6	20.6	7 20	22 54.89	-10 11.5	1.658	2.494	16.4	21.9
7 30	22 47.36	-14 57.9	2.441	3.351	9.0	20.5	7 30	22 50.65	-10 57.5	1.588	2.501	12.8	21.6
8 9	22 41.25	-15 22.7	2.384	3.353	6.1	20.3	8 9	22 43.96	-11 56.2	1.538	2.508	8.6	21.4
8 19	22 33.90	-15 48.8	2.353	3.354	3.1	20.1	8 19	22 35.36	-13 2.1	1.512	2.515	4.1	21.2
8 29	22 25.92	-16 12.3	2.350	3.355	2.1	20.0	8 29	22 25.81	-14 7.9	1.514	2.521	2.0	21.0
9 8	22 18.06	-16 29.5	2.376	3.356	4.8	20.2	9 8	22 16.45	-15 5.9	1.542	2.527	6.1	21.3
9 18	22 11.01	-16 38.0	2.430	3.357	7.8	20.4	9 18	22 8.37	-15 50.6	1.596	2.532	10.4	21.6
9 28	22 5.40	-16 36.3	2.509	3.358	10.5	20.6	9 28	22 2.45	-16 18.7	1.673	2.537	14.2	21.8
328185	2008 <i>DX</i> ₄₀		8 27.9 84°48	0°5/27.6	17		263639	2008 <i>GF</i> ₇₃		8 27.9 176°05	0°1/27.9	17	
7 20	22 52.61	- 6 12.2	1.545	2.377	17.5	20.6	7 20	22 53.91	- 6 55.0	1.846	2.666	15.5	22.3
7 30	22 48.84	- 7 6.9	1.487	2.397	13.7	20.4	7 30	22 49.69	- 7 25.7	1.765	2.668	12.3	22.1
8 9	22 42.66	- 8 18.5	1.449	2.417	9.2	20.2	8 9	22 43.22	- 8 10.3	1.705	2.670	8.4	21.9
8 19	22 34.66	- 9 41.3	1.435	2.437	4.3	20.0	8 19	22 35.00	- 9 4.9	1.670	2.671	4.1	21.6
8 29	22 25.84	-11 7.1	1.447	2.456	0.9	19.8	8 29	22 25.85	-10 3.9	1.662	2.671	0.5	21.3
9 8	22 17.34	-12 27.0	1.486	2.475	5.6	20.2	9 8	22 16.79	-11 0.9	1.681	2.671	5.0	21.7
9 18	22 10.20	-13 34.1	1.550	2.494	10.0	20.5	9 18	22 8.82	-11 50.1	1.727	2.671	9.2	21.9
9 28	22 5.22	-14 23.8	1.638	2.513	13.8	20.8	9 28	22 2.77	-12 27.2	1.798	2.670	13.0	22.2
359569	2010 <i>TD</i> ₁₂₁		8 27.9 82°62	0°4/27.5	18		201902	2004 <i>BL</i> ₆₄		8 27.9 81°89	0°6/27.5	17	
7 20	22 50.25	- 8 31.8	2.145	2.968	13.6	21.5	7 20	22 56.13	- 8 19.2	1.543	2.376	17.5	20.6
7 30	22 46.39	- 9 0.1	2.074	2.980	10.6	21.3	7 30	22 51.50	- 8 52.7	1.491	2.401	13.6	20.5
8 9	22 40.70	- 9 38.5	2.025	2.992	7.1	21.1	8 9	22 44.40	- 9 39.6	1.458	2.426	9.1	20.3
8 19	22 33.65	-10 23.6	2.001	3.003	3.4	20.9	8 19	22 35.49	-10 34.8	1.449	2.451	4.3	20.0
8 29	22 25.96	-11 10.6	2.005	3.015	0.7	20.7	8 29	22 25.82	-11 31.2	1.466	2.475	1.0	19.9
9 8	22 18.43	-11 54.6	2.037	3.026	4.4	21.0	9 8	22 16.58	-12 21.9	1.510	2.499	5.6	20.2
9 18	22 11.84	-12 31.2	2.097	3.038	8.0	21.3	9 18	22 8.81	-13 1.5	1.580	2.523	10.0	20.5
9 28	22 6.83	-12 57.6	2.181	3.049	11.1	21.5	9 28	22 3.32	-13 26.8	1.673	2.546	13.7	20.8
380534	2004 <i>HQ</i> ₃₅		8 27.9 126°39	2°7/30.6	17		517870	2015 <i>RN</i> ₂₅₆		8 27.9 233°57	0°9/29.0	18	
7 20	22 51.93	+ 1 29.2	1.859	2.650	16.5	21.5	7 20	22 48.12	- 4 2.4	2.540	3.342	12.3	22.2
7 30	22 48.01	+ 1 5.0	1.784	2.662	13.4	21.4	7 30	22 44.59	- 4 25.6	2.446	3.336	9.8	22.0
8 9	22 41.98	+ 0 21.2	1.729	2.674	9.8	21.2	8 9	22 39.46	- 5 0.5	2.373	3.329	6.9	21.8
8 19	22 34.33	- 0 40.3	1.697	2.685	5.9	21.0	8 19	22 33.11	- 5 45.0	2.326	3.323	3.6	21.6
8 29	22 25.88	- 1 54.8	1.691	2.696	2.8	20.8	8 29	22 26.09	- 6 35.7	2.307	3.316	0.9	21.4
9 8	22 17.59	- 3 15.4	1.714	2.706	4.6	20.9	9 8	22 19.08	- 7 28.2	2.317	3.309	3.6	21.6
9 18	22 10.36	- 4 35.0	1.763	2.716	8.4	21.2	9 18	22 12.75	- 8 18.2	2.355	3.302	6.9	21.8
9 28	22 4.96	- 5 46.8	1.838	2.726	11.9	21.4	9 28	22 7.71	- 9 1.6	2.419	3.295	9.9	22.0
478520	2012 <i>SG</i> ₅₆		8 27.9 36°44	3°4/25.9	17		185914	2000 <i>SJ</i> ₂₀₃		8 27.9 346°28	0°4/28.4	18	
7 20	22 58.32	-17 45.9	1.506	2.358	16.9	20.4	7 20	22 49.07	- 6 32.2	1.872	2.700	15.1	20.6
7 30	22 53.49	-17 53.0	1.444	2.365	13.2	20.1	7 30	22 45.89	- 6 46.5	1.790	2.696	11.9	20.3
8 9	22 45.91	-18 3.6	1.401	2.374	9.0	19.9	8 9	22 40.64	- 7 13.6	1.728	2.693	8.2	20.1
8 19	22 36.26	-18 12.2	1.382	2.382	4.9	19.7	8 19	22 33.76	- 7 50.8	1.690	2.690	4.1	19.9
8 29	22 25.69	-18 13.0	1.389	2.392	3.8	19.7	8 29	22 26.02	- 8 33.6	1.678	2.688	0.5	19.6
9 8	22 15.52	-18 1.8	1.421	2.401	7.3	19.9	9 8	22 18.35	- 9 16.4	1.694	2.686	4.7	19.9
9 18	22 6.95	-17 36.7	1.478	2.411	11.4	20.2	9 18	22 11.66	- 9 54.2	1.735	2.684	8.7	20.1
9 28	22 0.89	-16 58.2	1.558	2.421	15.1	20.4	9 28	22 6.73	-10 22.7	1.800	2.683	12.4	20.4
112193	2002 <i>JA</i> ₁₀₉		8 27.9 193°45	0°1/28.1	18		388953	2008 <i>TA</i> ₃₂		8 27.9 279°93	0°8/28.7	18	
7 20	22 52.21	- 2 9.6	1.958	2.760	15.4	20.0	7 20	22 50.18	- 4 51.0	1.804	2.626	15.8	21.8
7 30	22 48.33	- 3 34.1	1.867	2.758	12.3	19.8	7 30	22 47.04	- 5 12.8	1.705	2.608	12.7	21.6
8 9	22 42.31	- 5 19.9	1.797	2.756	8.5	19.6	8 9	22 41.63	- 5 50.7	1.627	2.590	8.9	21.3
8 19	22 34.58	- 7 22.5	1.753	2.752	4.2	19.3	8 19	22 34.35	- 6 42.1	1.573	2.572	4.6	21.0
8 29	22 25.88	- 9 33.8	1.738	2.748	0.4	19.0	8 29	22 25.94	- 7 42.4	1.544	2.554	0.8	20.7
9 8	22 17.15	-11 44.0	1.754	2.743	5.0	19.3	9 8	22 17.43	- 8 44.8	1.543	2.536	5.0	21.0
9 18	22 9.35	-13 43.8	1.798	2.737	9.2	19.6	9 18	22 9.84	- 9 42.8	1.568	2.517	9.5	21.2
9 28	22 3.31	-15 26.0	1.868	2.730	13.0	19.8	9 28	22 4.12	-10 30.6	1.616	2.499	13.5	21.4
185985	2001 <i>NG</i> ₁₀		8 27.9 359°92	0°7/27.6	18		27870	<i>Jillwatson</i>		8 27.9 54°84	2°1/29.5	18	
7 20	22 48.84	-10 47.0	1.051	1.930	20.7	19.0	7 20	22 54.01	- 3 23.0	1.313	2.147	20.0	18.6
7 30	22 47.16	-10 36.4	0.989	1.925	16.3	18.7	7 30	22 50.34	- 3 19.1	1.257	2.164	15.9	18.4
8 9	22 42.25	-10 38.9	0.944	1.923	11.2	18.4	8 9	22 43.89	- 3 34.4	1.219	2.181	11.3	18.2
8 19	22 34.73	-10 50.8	0.918	1.922	5.4	18.1	8 19	22 35.35	- 4 6.2	1.202	2.199	6.1	18.0
8 29	22 25.86	-11 5.6	0.913	1.923	1.1	17.8	8 29	22 25.86	- 4 49.2	1.209	2.217	2.1	17.8
9 8	22 17.25	-11 16.4	0.931	1.925	7.0	18.2	9 8	22 16.76	- 5 36.1	1.241	2.235	5.6	18.1
9 18	22 10.40	-11 17.8	0.970	1.929	12.6	18.5	9 18	22 9.25	- 6 19.7	1.297	2.254	10.3	18.4
9 28	22 6.45	-11 6.2	1.029	1.935	17.4	18.8	9 28	22 4.24	- 6 54.1	1.376	2.273	14.5	18.7
362584	2010 <i>VK</i> ₁₆₈		8 27.9 351°37	4°5/23.0	18		200376	2000 <i>QL</i> ₉₉		8 27.9 324°03	3°5/25.8	18	
7 20	22 48.24	-19 8.8	2.078	2.931	12.8	20.4	7 20	22 50.90	-15 29.9	1.333	2.201	17.7	19.4
7 30	22 45.11	-20 22.6	2.006	2.929	10.0	20.2	7 30	22 48.50	-15 52.5	1.248	2.180	14.0	19.1
8 9	22 40.02	-21 41.4	1.958	2.928	7.0	20.0	8 9	22 43.12	-16 24.1	1.181	2.159	9.6	18.8
8 19	22 33.41	-22 58.5	1.934	2.927	4.8	19.9	8 19	22 35.23	-16 58.8	1.136	2.139	5.1	18.5
8 29	22 26.02	-24 6.8	1.938	2.926	5.1	19.9	8 29	22 25.85	-17 28.7	1.115	2.119	3.9	18.3
9 8	22 18.72	-25 0.2	1.969	2.926	7.6	20.0	9 8	22 16.40	-17 46.2	1.117	2.101	8.2	18.5
9 18	22 12.37	-25 35.0	2.025	2.925	10.5	20.2	9 18	22 8.32	-17 46.2	1.142	2.083	13.1	18.7
9 28	22 7.68	-25 49.9	2.103	2.925	13.3	20.4	9 28	22 2.85	-17 26.6	1.188	2.067	17.6	19.0
515012	2009 <i>SK</i> ₆₈		8 27.9 350°45	0°0/27.9	18		474527	2003 <i>UM</i> ₃₃₂		8 27.			

EPHEMERIDES

8 27.9

8 28.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
427709	2004 <i>FH</i> ₁₀₄		8 27.9 193°03	0°8/27.3	17		245835	2006 <i>KP</i> ₁₅		8 28.0 353°91	3°9/24.7	18	
7 20	22 54.56	- 9 17.1	1.850	2.677	15.3	22.5	7 20	22 51.20	-16 28.2	1.709	2.563	15.1	20.6
7 30	22 50.24	- 9 46.3	1.768	2.675	12.0	22.3	7 30	22 47.83	-17 22.5	1.637	2.562	11.8	20.4
8 9	22 43.64	-10 27.3	1.706	2.674	8.1	22.1	8 9	22 42.11	-18 24.2	1.587	2.561	8.0	20.2
8 19	22 35.24	-11 16.1	1.669	2.671	3.9	21.8	8 19	22 34.54	-19 26.6	1.561	2.560	4.7	20.0
8 29	22 25.88	-12 6.9	1.660	2.669	1.1	21.6	8 29	22 26.02	-20 22.2	1.561	2.560	4.3	20.0
9 8	22 16.59	-12 53.6	1.678	2.666	5.4	21.9	9 8	22 17.65	-21 4.0	1.587	2.559	7.5	20.2
9 18	22 8.39	-13 30.9	1.722	2.662	9.5	22.1	9 18	22 10.46	-21 27.9	1.638	2.559	11.2	20.4
9 28	22 2.14	-13 55.5	1.791	2.658	13.2	22.4	9 28	22 5.33	-21 32.4	1.711	2.560	14.6	20.6
100138	1993 <i>SN</i> ₁₄		8 27.9 5°31	0°9/27.4	18		19926	1979 <i>YQ</i>		8 28.0 311°10	6°5/22.4	18	
7 20	22 50.08	-10 25.4	1.418	2.273	17.6	19.1	7 20	22 49.47	-20 29.0	1.490	2.361	16.1	16.8
7 30	22 47.30	-10 33.5	1.350	2.273	13.8	18.8	7 30	22 47.23	-21 48.3	1.402	2.335	12.8	16.5
8 9	22 41.90	-10 53.4	1.300	2.274	9.4	18.6	8 9	22 42.22	-23 16.2	1.335	2.309	9.3	16.3
8 19	22 34.46	-11 21.1	1.273	2.276	4.5	18.3	8 19	22 34.82	-24 43.5	1.291	2.283	6.8	16.1
8 29	22 25.98	-11 50.7	1.270	2.279	1.2	18.1	8 29	22 25.97	-25 59.2	1.272	2.258	7.4	16.0
9 8	22 17.70	-12 15.7	1.292	2.283	6.0	18.4	9 8	22 16.96	-26 53.5	1.276	2.233	10.7	16.1
9 18	22 10.79	-12 31.4	1.337	2.288	10.7	18.7	9 18	22 9.16	-27 20.2	1.302	2.209	14.7	16.3
9 28	22 6.18	-12 34.3	1.405	2.293	14.9	19.0	9 28	22 3.77	-27 17.8	1.348	2.185	18.5	16.5
26581	2000 <i>EP</i> ₁₀₇		8 27.9 79°44	3°1/25.5	18		166753	2002 <i>UJ</i> ₆		8 28.0 232°16	6°5/20.7	18	
7 20	22 54.90	-16 47.1	1.880	2.723	14.4	17.8	7 20	22 54.77	-28 3.0	2.365	3.205	11.9	20.3
7 30	22 50.34	-17 16.4	1.814	2.732	11.2	17.6	7 30	22 50.15	-29 13.2	2.287	3.194	9.7	20.2
8 9	22 43.55	-17 50.3	1.770	2.740	7.6	17.4	8 9	22 43.46	-30 21.9	2.233	3.182	7.6	20.0
8 19	22 35.12	-18 23.6	1.750	2.749	4.2	17.2	8 19	22 35.14	-31 22.2	2.204	3.170	6.5	19.9
8 29	22 25.92	-18 50.7	1.757	2.758	3.5	17.2	8 29	22 25.95	-32 7.6	2.203	3.158	7.1	19.9
9 8	22 16.97	-19 6.8	1.792	2.767	6.5	17.4	9 8	22 16.82	-32 33.2	2.228	3.145	9.0	20.0
9 18	22 9.24	-19 9.2	1.852	2.776	10.0	17.6	9 18	22 8.65	-32 37.3	2.277	3.132	11.3	20.2
9 28	22 3.48	-18 57.2	1.936	2.785	13.2	17.8	9 28	22 2.22	-32 20.2	2.349	3.119	13.6	20.3
473154	2015 <i>KR</i> ₂₀		8 27.9 134°67	6°1/ 2.9	18		252798	2002 <i>FP</i> ₁₆		8 28.0 170°50	4°6/ 2.1	17	
7 20	22 51.88	+ 8 51.7	2.005	2.751	16.9	21.0	7 20	22 51.70	+ 9 37.6	1.892	2.639	17.7	20.6
7 30	22 47.94	+ 9 16.1	1.923	2.758	14.4	20.8	7 30	22 47.98	+ 8 48.7	1.802	2.643	14.9	20.4
8 9	22 41.96	+ 9 19.9	1.858	2.765	11.5	20.7	8 9	22 42.11	+ 7 31.5	1.729	2.647	11.6	20.2
8 19	22 34.40	+ 9 2.1	1.816	2.771	8.6	20.5	8 19	22 34.53	+ 5 46.9	1.680	2.649	7.9	20.0
8 29	22 25.99	+ 8 23.5	1.798	2.777	6.4	20.4	8 29	22 26.02	+ 3 39.3	1.658	2.651	4.9	19.8
9 8	22 17.66	+ 7 28.2	1.807	2.783	6.4	20.4	9 8	22 17.56	+ 1 17.6	1.664	2.653	5.3	19.9
9 18	22 10.29	+ 6 22.1	1.842	2.788	8.6	20.5	9 18	22 10.10	+ 1 7.6	1.700	2.653	8.6	20.1
9 28	22 4.64	+ 5 12.1	1.903	2.794	11.4	20.7	9 28	22 4.46	+ 3 25.4	1.762	2.653	12.2	20.3
487147	2014 <i>OB</i> ₂₁₈		8 27.9 267°93	4°8/22.3	18		517441	2014 <i>OM</i> ₁₂₇		8 28.0 242°91	2°4/25.3	18	
7 20	22 49.74	-22 17.5	2.400	3.246	11.6	20.9	7 20	22 50.01	-15 39.9	2.586	3.419	11.2	21.7
7 30	22 46.11	-23 23.8	2.318	3.236	9.1	20.7	7 30	22 46.09	-16 18.5	2.497	3.410	8.7	21.5
8 9	22 40.64	-24 32.4	2.261	3.225	6.6	20.5	8 9	22 40.51	-17 2.3	2.432	3.401	5.9	21.4
8 19	22 33.75	-25 37.5	2.230	3.215	5.0	20.4	8 19	22 33.66	-17 47.2	2.393	3.392	3.2	21.2
8 29	22 26.08	-26 32.9	2.226	3.204	5.4	20.4	8 29	22 26.13	-18 28.7	2.382	3.383	2.7	21.1
9 8	22 18.44	-27 13.7	2.249	3.194	7.5	20.5	9 8	22 18.62	-19 2.5	2.400	3.374	5.2	21.3
9 18	22 11.62	-27 36.8	2.298	3.183	10.1	20.7	9 18	22 11.85	-19 25.6	2.445	3.364	8.1	21.4
9 28	22 6.32	-27 41.4	2.369	3.172	12.6	20.8	9 28	22 6.43	-19 36.1	2.515	3.354	10.8	21.6
3691	Bede		8 27.9 71°34	8°1/26.9	18		306943	2001 <i>UR</i> ₁₃₁		8 28.0 358°35	5°3/24.4	18	
7 20	23 39.55	-28 8.1	0.794	1.640	28.6	16.5	7 20	22 50.96	-18 24.6	1.258	2.135	18.1	19.6
7 30	23 26.51	-27 36.3	0.766	1.678	22.7	16.3	7 30	22 48.47	-19 14.7	1.196	2.132	14.2	19.3
8 9	23 8.11	-26 51.2	0.754	1.716	16.2	16.1	8 9	22 42.96	-20 11.7	1.152	2.130	9.9	19.1
8 19	22 46.48	-25 40.9	0.762	1.753	10.2	16.0	8 19	22 35.08	-21 7.0	1.130	2.129	6.1	18.9
8 29	22 24.78	-24 1.1	0.795	1.790	8.2	16.0	8 29	22 25.97	-21 50.8	1.131	2.129	5.9	18.9
9 8	22 6.12	-21 58.1	0.852	1.826	11.9	16.4	9 8	22 17.12	-22 15.2	1.156	2.129	9.5	19.1
9 18	21 52.32	-19 44.1	0.933	1.861	16.8	16.8	9 18	22 9.89	-22 16.3	1.203	2.131	13.8	19.3
9 28	21 43.91	-17 29.1	1.033	1.895	21.0	17.2	9 28	22 5.34	-21 53.9	1.269	2.134	17.7	19.6
297237	1981 <i>EA</i> ₄₈		8 28.0 184°34	0°1/28.1	18		469631	2004 <i>RR</i> ₃₃₆		8 28.0 356°06	2°3/29.6	18	
7 20	22 53.20	- 7 55.6	2.538	3.343	12.2	22.0	7 20	22 43.47	- 3 35.1	1.100	1.964	20.9	20.9
7 30	22 48.49	- 8 9.1	2.449	3.343	9.6	21.8	7 30	22 42.83	- 3 25.4	1.032	1.957	16.9	20.6
8 9	22 42.08	- 8 31.2	2.382	3.343	6.6	21.6	8 9	22 39.29	- 3 37.6	0.981	1.951	12.1	20.3
8 19	22 34.39	- 8 59.5	2.342	3.342	3.2	21.4	8 19	22 33.38	- 4 10.1	0.948	1.948	6.7	20.0
8 29	22 26.02	- 9 30.6	2.331	3.341	0.3	21.1	8 29	22 26.16	- 4 57.7	0.937	1.946	2.4	19.8
9 8	22 17.72	-10 0.7	2.349	3.339	3.9	21.4	9 8	22 19.05	- 5 51.8	0.948	1.945	6.1	20.0
9 18	22 10.18	-10 26.5	2.396	3.337	7.2	21.6	9 18	22 13.43	- 6 43.3	0.981	1.947	11.5	20.3
9 28	22 4.06	-10 45.1	2.469	3.334	10.1	21.8	9 28	22 10.41	- 7 24.0	1.034	1.950	16.4	20.6
46168	2001 <i>FK</i> ₈₆		8 28.0 102°01	0°3/27.6	18		283327	1997 <i>JN</i> ₅		8 28.0 14°58	0°9/27.2	18	
7 20	22 49.65	- 8 23.5	2.679	3.490	11.5	20.2	7 20	22 48.55	- 8 6.6	1.665	2.506	16.0	20.5
7 30	22 45.52	- 8 54.3	2.609	3.509	8.9	20.0	7 30	22 45.76	- 8 53.6	1.591	2.507	12.6	20.3
8 9	22 39.94	- 9 33.4	2.563	3.527	6.0	19.9	8 9	22 40.70	- 9 55.5	1.538	2.509	8.5	20.0
8 19	22 33.29	-10 17.6	2.544	3.545	2.8	19.7	8 19	22 33.87	-11 7.4	1.508	2.511	4.0	19.8
8 29	22 26.16	-11 3.2	2.553	3.562	0.6	19.5	8 29	22 26.11	-12 22.3	1.504	2.513	1.3	19.6
9 8	22 19.17	-11 46.2	2.591	3.580	3.7	19.8	9 8	22 18.48	-13 32.2	1.527	2.516	5.6	19.9
9 18	22 12.94	-12 23.2	2.658	3.597	6.7	20.0	9 18	22 11.95	-14 30.5	1.575	2.519	10.0	20.1
9 28	22 7.98	-12 51.7	2.752	3.613	9.3	20.2	9 28	22 7.39	-15 12.6	1.646	2.522	13.7	20.4
310707	2002 <i>LN</i> ₃₁		8 28.0 152°68	7°4/ 9.7	18		253542	2003 <i>SF</i> ₂₃₃		8 28.0 345			