

EPHEMERIDES

12 29.0

12 29.0

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
47282	1999 VG ₁₆₇		12 29.0	50°17	2°8/28.7	18	53888	2000 FW ₄₀		12 29.0	129°00	1°4/28.8	18
11 27	7 2.83	+28 12.8	1.269	2.127	17.1	18.9	11 27	7 2.89	+24 54.5	1.728	2.568	14.1	18.6
12 7	6 56.43	+28 42.8	1.215	2.136	12.5	18.6	12 7	6 55.81	+25 34.9	1.665	2.579	10.2	18.4
12 17	6 46.66	+29 9.5	1.183	2.146	7.3	18.4	12 17	6 46.09	+26 16.1	1.627	2.589	5.8	18.2
12 27	6 34.84	+29 27.1	1.176	2.156	3.0	18.1	12 27	6 34.77	+26 53.5	1.617	2.599	1.7	17.9
1 6	6 22.83	+29 32.1	1.195	2.166	5.5	18.3	1 6	6 23.21	+27 23.5	1.637	2.609	4.2	18.1
1 16	6 12.48	+29 24.8	1.240	2.176	10.5	18.6	1 16	6 12.80	+27 44.6	1.685	2.618	8.6	18.4
1 26	6 5.25	+29 8.4	1.308	2.187	15.0	18.9	1 26	6 4.73	+27 57.6	1.759	2.626	12.5	18.7
2 5	6 1.81	+28 47.1	1.396	2.198	18.8	19.2	2 5	5 59.69	+28 4.5	1.855	2.634	15.7	18.9
518727	2009 FL ₆		12 29.0	175°08	0°5/28.9	18	377933	2006 GP ₃₉		12 29.0	222°28	2°9/29.7	18
11 27	6 59.67	+22 31.9	2.294	3.125	11.4	22.2	11 27	6 54.75	+11 34.0	2.858	3.668	10.0	21.4
12 7	6 53.05	+23 15.3	2.218	3.127	8.3	22.0	12 7	6 49.16	+11 38.7	2.768	3.659	7.6	21.3
12 17	6 44.40	+24 1.4	2.168	3.129	4.7	21.8	12 17	6 42.09	+11 51.1	2.704	3.649	5.0	21.1
12 27	6 34.47	+24 47.0	2.148	3.130	0.9	21.5	12 27	6 34.09	+12 11.2	2.670	3.639	3.1	20.9
1 6	6 24.24	+25 29.1	2.159	3.131	3.2	21.7	1 6	6 25.85	+12 38.2	2.667	3.629	3.8	21.0
1 16	6 14.73	+26 5.6	2.201	3.132	6.9	21.9	1 16	6 18.09	+13 10.6	2.694	3.618	6.2	21.1
1 26	6 6.88	+26 36.1	2.270	3.131	10.3	22.1	1 26	6 11.47	+13 47.1	2.750	3.606	8.9	21.3
2 5	6 1.32	+27 1.1	2.364	3.131	13.1	22.3	2 5	6 6.51	+14 26.0	2.831	3.594	11.2	21.4
413241	2003 SD ₂₁₀		12 29.0	103°63	6°3/30.1	18	370434	2002 VN ₆₄		12 29.0	91°71	8°7/26.8	17
11 27	6 55.49	+ 2 32.1	2.496	3.279	12.0	21.6	11 27	7 6.30	+49 48.4	2.451	3.228	12.4	20.5
12 7	6 49.61	+ 1 53.2	2.440	3.298	9.8	21.5	12 7	6 58.52	+51 16.2	2.399	3.239	10.6	20.4
12 17	6 42.25	+ 1 27.7	2.407	3.316	7.7	21.4	12 17	6 47.76	+52 28.1	2.372	3.249	9.2	20.3
12 27	6 34.08	+ 1 17.7	2.403	3.334	6.4	21.3	12 27	6 35.08	+53 16.8	2.370	3.259	8.7	20.3
1 6	6 25.87	+ 1 23.4	2.427	3.352	6.7	21.4	1 6	6 21.96	+53 38.7	2.396	3.269	9.2	20.4
1 16	6 18.35	+ 1 43.8	2.479	3.369	8.3	21.5	1 16	6 10.01	+53 34.1	2.447	3.280	10.6	20.5
1 26	6 12.20	+ 2 16.3	2.557	3.386	10.4	21.6	1 26	6 0.59	+53 7.2	2.521	3.290	12.3	20.6
2 5	6 7.87	+ 2 57.7	2.659	3.402	12.4	21.8	2 5	5 54.51	+52 24.6	2.616	3.299	13.9	20.8
373367	2012 LC ₆		12 29.0	116°84	2°7/29.6	17	321969	2010 UN ₂₈		12 29.0	78°70	0°2/28.9	18
11 27	6 54.88	+13 19.7	2.625	3.443	10.5	21.7	11 27	6 58.23	+22 39.3	1.951	2.791	12.7	21.0
12 7	6 49.21	+13 15.9	2.558	3.455	7.9	21.6	12 7	6 52.16	+22 58.0	1.885	2.799	9.2	20.8
12 17	6 42.06	+13 18.9	2.517	3.466	5.0	21.4	12 17	6 43.93	+23 18.6	1.845	2.808	5.2	20.6
12 27	6 34.06	+13 28.6	2.505	3.477	2.9	21.3	12 27	6 34.41	+23 38.8	1.833	2.816	0.9	20.3
1 6	6 25.95	+13 44.3	2.524	3.488	3.7	21.4	1 6	6 24.70	+23 56.4	1.850	2.824	3.5	20.5
1 16	6 18.49	+14 4.8	2.573	3.499	6.3	21.6	1 16	6 15.93	+24 10.4	1.897	2.832	7.5	20.8
1 26	6 12.34	+14 29.1	2.649	3.509	9.0	21.7	1 26	6 9.09	+24 20.9	1.970	2.841	11.1	21.0
2 5	6 7.97	+14 55.8	2.751	3.519	11.4	21.9	2 5	6 4.77	+24 28.7	2.065	2.849	14.2	21.3
64608	2001 XK ₂₃		12 29.0	123°18	3°6/28.5	18	386692	2009 WH ₁₇		12 29.0	331°69	0°2/29.0	18
11 27	7 4.51	+31 24.4	1.833	2.667	13.7	19.1	11 27	6 59.01	+23 21.5	1.250	2.113	16.9	21.5
12 7	6 56.92	+32 7.3	1.775	2.682	10.1	18.9	12 7	6 53.89	+23 27.3	1.178	2.103	12.4	21.2
12 17	6 46.67	+32 44.4	1.741	2.695	6.3	18.7	12 17	6 45.41	+23 35.3	1.128	2.094	7.1	20.9
12 27	6 34.85	+33 10.6	1.735	2.709	3.7	18.6	12 27	6 34.71	+23 42.5	1.102	2.085	1.2	20.5
1 6	6 22.87	+33 22.6	1.759	2.721	5.2	18.7	1 6	6 23.48	+23 46.4	1.102	2.077	4.8	20.7
1 16	6 12.14	+33 20.4	1.811	2.733	8.8	19.0	1 16	6 13.55	+23 46.3	1.128	2.070	10.6	21.0
1 26	6 3.84	+33 6.9	1.889	2.745	12.3	19.2	1 26	6 6.49	+23 43.2	1.176	2.064	15.7	21.3
2 5	5 58.62	+32 46.2	1.989	2.756	15.2	19.4	2 5	6 3.18	+23 39.0	1.243	2.058	19.9	21.5
229903	2009 WH ₁₄		12 29.0	15°20	1°2/29.2	17	327479	2005 YY ₅₈		12 29.0	60°02	0°0/28.9	18
11 27	6 55.88	+19 3.5	2.067	2.905	12.2	20.5	11 27	6 57.52	+22 6.2	1.954	2.796	12.7	20.7
12 7	6 50.38	+19 7.7	1.994	2.906	8.9	20.3	12 7	6 51.64	+22 23.0	1.890	2.804	9.1	20.5
12 17	6 42.90	+19 16.4	1.947	2.907	5.2	20.1	12 17	6 43.63	+22 42.2	1.851	2.813	5.1	20.3
12 27	6 34.22	+19 28.3	1.927	2.909	1.5	19.8	12 27	6 34.36	+23 1.5	1.840	2.823	0.9	20.0
1 6	6 25.32	+19 42.2	1.938	2.910	3.5	20.0	1 6	6 24.93	+23 19.0	1.858	2.832	3.4	20.2
1 16	6 17.21	+19 57.0	1.977	2.912	7.3	20.2	1 16	6 16.42	+23 33.6	1.905	2.841	7.5	20.5
1 26	6 10.81	+20 12.2	2.042	2.914	10.8	20.5	1 26	6 9.80	+23 45.3	1.979	2.851	11.1	20.7
2 5	6 6.71	+20 27.5	2.131	2.916	13.7	20.7	2 5	6 5.67	+23 54.6	2.075	2.860	14.1	21.0
273160	2006 HX ₅₄		12 29.0	214°86	4°4/29.9	18	140022	2001 SH ₅₃		12 29.0	150°14	3°3/28.5	18
11 27	6 54.20	+ 7 54.7	2.615	3.419	11.0	20.9	11 27	7 1.18	+31 50.6	2.215	3.044	11.8	20.5
12 7	6 48.82	+ 7 43.9	2.533	3.414	8.6	20.8	12 7	6 54.27	+32 29.9	2.146	3.051	8.7	20.3
12 17	6 41.90	+ 7 43.2	2.476	3.410	6.1	20.6	12 17	6 45.13	+33 4.2	2.104	3.057	5.5	20.1
12 27	6 34.05	+ 7 53.6	2.448	3.405	4.5	20.5	12 27	6 34.63	+33 29.2	2.090	3.062	3.3	20.0
1 6	6 25.99	+ 8 14.6	2.449	3.400	5.0	20.5	1 6	6 23.91	+33 42.4	2.106	3.068	4.7	20.1
1 16	6 18.47	+ 8 45.0	2.480	3.395	7.2	20.7	1 16	6 14.11	+33 43.4	2.152	3.072	7.8	20.3
1 26	6 12.21	+ 9 23.0	2.539	3.390	9.7	20.8	1 26	6 6.26	+33 34.0	2.225	3.077	10.8	20.5
2 5	6 7.70	+10 6.0	2.621	3.384	12.0	21.0	2 5	6 0.99	+33 17.5	2.320	3.081	13.5	20.7
227890	2007 EJ ₅₇		12 29.0	18°34	2°0/29.3	18	255337	2005 WC ₅₅		12 29.0	8°56	6°8/29.1	18
11 27	6 57.82	+18 31.3	1.114	1.981	18.3	20.4	11 27	6 56.23	+ 8 28.7	1.701	2.526	15.0	20.0
12 7	6 52.93	+18 32.8	1.060	1.986	13.4	20.1	12 7	6 50.83	+ 7 17.2	1.636	2.527	11.8	19.8
12 17	6 44.76	+18 43.1	1.027	1.992	7.8	19.8	12 17	6 43.23	+ 6 17.5	1.593	2.528	8.7	19.6
12 27	6 34.55	+19 0.6	1.017	1.999	2.5	19.5	12 27	6 34.31	+ 5 33.9	1.577	2.530	6.9	19.5
1 6	6 24.10	+19 22.6	1.032	2.007	5.2	19.7	1 6	6 25.21	+ 5 8.4	1.587	2.533	7.7	19.6
1 16	6 15.17	+19 46.8	1.072	2.016	10.8	20.0	1 16	6 17.05	+ 5 1.6	1.624	2.536	10.4	19.7
1 26	6 9.22	+20 11.7	1.133	2.026	15.7	20.4	1 26	6 10.85	+ 5 11.4	1.685	2.539	13.6	19.9
2 5	6 6.96	+20 36.2	1.213	2.037	19.8	20.7	2 5	6 7.19	+ 5 34.2	1.767	2.543	16.5	20.1
122291	2000 PN ₁₉		12 29.0	154°37	1°4/29.3	18	438008	2003 WR ₂₂		12 29.0	60°21	7°5/29.0	15
11 27	7 0.92	+17 49.1	2.034	2.862	12.8	20.5	11 27	7 9.12</					

EPHEMERIDES

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
196309	2003 <i>FD</i> ₂₄		12 29.0 199°34	0°4/29.1	18		320865	2008 <i>FZ</i> ₁₃₆		12 29.0 197°24	3°0/29.6	17	
11 27	7 1.11	+21 23.5	2.027	2.860	12.6	21.8	11 27	6 56.34	+13 7.4	2.477	3.294	11.1	22.3
12 7	6 54.28	+21 32.1	1.947	2.856	9.2	21.5	12 7	6 50.45	+13 1.4	2.395	3.292	8.3	22.2
12 17	6 45.18	+21 43.2	1.891	2.852	5.2	21.3	12 17	6 42.88	+13 2.7	2.340	3.289	5.4	22.0
12 27	6 34.65	+21 54.8	1.865	2.848	1.0	21.0	12 27	6 34.28	+13 11.3	2.314	3.285	3.1	21.8
1 6	6 23.81	+22 5.3	1.869	2.843	3.5	21.2	1 6	6 25.45	+13 26.6	2.318	3.282	4.0	21.9
1 16	6 13.82	+22 13.9	1.903	2.837	7.7	21.4	1 16	6 17.25	+13 47.7	2.352	3.277	6.9	22.0
1 26	6 5.72	+22 20.7	1.964	2.830	11.4	21.6	1 26	6 10.43	+14 13.1	2.414	3.273	9.8	22.2
2 5	6 0.19	+22 26.4	2.048	2.823	14.6	21.8	2 5	6 5.54	+14 41.5	2.500	3.268	12.4	22.4
412000	2012 <i>KG</i> ₁₆		12 29.0 1°22	4°1/29.4	17		231407	2006 <i>YU</i> ₁₀		12 29.0 23°29	0°4/28.9	18	
11 27	6 55.12	+12 22.1	1.995	2.824	13.0	20.4	11 27	6 59.80	+20 55.8	1.204	2.066	17.5	19.7
12 7	6 49.83	+11 51.5	1.923	2.823	9.9	20.2	12 7	6 54.41	+21 47.2	1.147	2.071	12.7	19.4
12 17	6 42.61	+11 29.6	1.875	2.823	6.6	20.0	12 17	6 45.67	+22 46.8	1.110	2.076	7.2	19.1
12 27	6 34.21	+11 17.6	1.854	2.823	4.3	19.9	12 27	6 34.79	+23 48.8	1.099	2.082	1.2	18.8
1 6	6 25.61	+11 15.8	1.862	2.823	5.2	19.9	1 6	6 23.50	+24 46.9	1.113	2.088	4.9	19.0
1 16	6 17.80	+11 23.7	1.898	2.824	8.2	20.1	1 16	6 13.64	+25 37.0	1.153	2.095	10.5	19.4
1 26	6 11.67	+11 40.0	1.960	2.825	11.5	20.3	1 26	6 6.73	+26 17.6	1.216	2.103	15.4	19.7
2 5	6 7.80	+12 2.5	2.044	2.826	14.4	20.5	2 5	6 3.58	+26 49.5	1.299	2.111	19.4	20.0
475460	2006 <i>RY</i> ₈₇		12 29.0 283°38	5°9/28.4	18		180964	2005 <i>MS</i> ₃₆		12 29.0 135°75	1°9/28.9	18	
11 27	7 4.86	+34 39.4	1.389	2.235	16.6	21.3	11 27	7 1.24	+29 13.0	2.217	3.048	11.7	20.7
12 7	6 58.25	+35 31.9	1.320	2.230	12.6	21.1	12 7	6 54.14	+29 18.4	2.150	3.058	8.6	20.5
12 17	6 47.93	+36 15.7	1.273	2.224	8.6	20.8	12 17	6 44.98	+29 19.4	2.109	3.067	5.0	20.3
12 27	6 35.16	+36 42.4	1.251	2.219	6.0	20.7	12 27	6 34.63	+29 13.6	2.097	3.076	2.0	20.1
1 6	6 21.85	+36 46.5	1.255	2.213	7.6	20.8	1 6	6 24.19	+28 59.9	2.116	3.085	3.7	20.2
1 16	6 10.04	+36 28.0	1.286	2.208	11.6	21.0	1 16	6 14.75	+28 39.1	2.164	3.093	7.2	20.5
1 26	6 1.45	+35 52.3	1.339	2.203	15.8	21.2	1 26	6 7.21	+28 13.1	2.240	3.101	10.4	20.7
2 5	5 56.97	+35 6.5	1.411	2.198	19.4	21.4	2 5	6 2.13	+27 44.8	2.340	3.109	13.1	20.9
348253	2004 <i>TT</i> ₉₇		12 29.0 98°33	0°7/29.1	15		462741	2010 <i>CR</i> ₂₅		12 29.0 340°79	1°5/28.9	16	
11 27	7 2.13	+20 50.7	1.724	2.563	14.2	21.8	11 27	6 56.75	+27 27.7	1.952	2.797	12.5	21.5
12 7	6 55.01	+20 57.1	1.670	2.583	10.3	21.6	12 7	6 51.27	+27 32.8	1.875	2.790	9.1	21.3
12 17	6 45.52	+21 6.6	1.641	2.602	5.8	21.4	12 17	6 43.54	+27 35.2	1.822	2.784	5.3	21.1
12 27	6 34.69	+21 17.2	1.639	2.621	1.2	21.1	12 27	6 34.40	+27 32.5	1.797	2.778	1.7	20.8
1 6	6 23.83	+21 27.1	1.667	2.640	3.8	21.4	1 6	6 25.00	+27 23.4	1.800	2.772	3.8	20.9
1 16	6 14.18	+21 35.8	1.723	2.658	8.2	21.7	1 16	6 16.51	+27 8.2	1.832	2.767	7.8	21.2
1 26	6 6.79	+21 43.3	1.805	2.676	12.0	21.9	1 26	6 9.95	+26 48.4	1.891	2.763	11.5	21.4
2 5	6 2.22	+21 50.2	1.910	2.693	15.2	22.2	2 5	6 5.98	+26 26.2	1.971	2.759	14.6	21.6
48324	2002 <i>NQ</i> ₄₀		12 29.0 49°15	1°0/29.2	18		163030	2001 <i>XM</i> ₁₀₇		12 29.0 87°23	0°0/29.0	18	
11 27	6 56.79	+19 55.2	1.930	2.771	12.8	19.0	11 27	7 6.23	+22 58.1	1.288	2.138	17.4	20.3
12 7	6 51.02	+20 1.2	1.876	2.789	9.3	18.8	12 7	6 58.52	+23 7.0	1.242	2.161	12.5	20.1
12 17	6 43.23	+20 11.1	1.845	2.807	5.3	18.6	12 17	6 47.68	+23 17.6	1.219	2.183	7.0	19.8
12 27	6 34.31	+20 23.3	1.843	2.825	1.3	18.4	12 27	6 35.09	+23 26.3	1.222	2.205	1.2	19.5
1 6	6 25.32	+20 36.5	1.870	2.844	3.5	18.6	1 6	6 22.56	+23 31.0	1.252	2.226	4.6	19.8
1 16	6 17.32	+20 49.5	1.926	2.862	7.4	18.8	1 16	6 11.81	+23 31.5	1.309	2.247	9.9	20.2
1 26	6 11.18	+21 2.2	2.008	2.881	10.8	19.1	1 26	6 4.11	+23 29.3	1.390	2.268	14.4	20.5
2 5	6 7.44	+21 14.3	2.113	2.900	13.8	19.3	2 5	6 0.04	+23 26.2	1.491	2.288	18.1	20.8
425268	2009 <i>WS</i> ₁₁₇		12 29.0 123°99	1°6/29.2	17		149565	2003 <i>WH</i> ₄₇		12 29.0 234°81	0°0/28.9	18	
11 27	6 56.80	+18 51.1	2.265	3.097	11.5	21.4	11 27	7 2.40	+22 33.2	1.521	2.367	15.4	21.2
12 7	6 50.85	+18 32.2	2.193	3.101	8.4	21.2	12 7	6 55.88	+22 41.3	1.444	2.361	11.2	21.0
12 17	6 43.10	+18 16.2	2.146	3.104	4.9	21.0	12 17	6 46.37	+22 51.9	1.391	2.354	6.4	20.7
12 27	6 34.29	+18 3.2	2.128	3.108	1.8	20.8	12 27	6 34.92	+23 2.2	1.364	2.347	1.1	20.3
1 6	6 25.35	+17 53.0	2.140	3.111	3.4	21.0	1 6	6 22.99	+23 9.8	1.365	2.339	4.3	20.5
1 16	6 17.18	+17 45.6	2.182	3.115	6.9	21.2	1 16	6 12.20	+23 13.9	1.394	2.332	9.5	20.8
1 26	6 10.61	+17 41.2	2.252	3.118	10.1	21.4	1 26	6 3.92	+23 15.3	1.448	2.324	14.1	21.0
2 5	6 6.17	+17 39.7	2.344	3.121	12.9	21.6	2 5	5 58.99	+23 15.4	1.522	2.315	17.9	21.3
76102	2000 <i>DP</i> ₁₀₂		12 29.0 26°35	4°8/28.3	18		115672	2003 <i>UW</i> ₁₄₄		12 29.0 352°06	0°1/29.0	18	
11 27	6 59.70	+35 46.3	2.027	2.859	12.6	18.8	11 27	6 57.21	+24 57.0	1.813	2.660	13.2	18.8
12 7	6 53.47	+36 28.4	1.961	2.863	9.6	18.6	12 7	6 51.63	+24 32.5	1.738	2.656	9.6	18.6
12 17	6 44.79	+37 2.2	1.920	2.866	6.6	18.4	12 17	6 43.72	+24 5.9	1.688	2.652	5.4	18.3
12 27	6 34.60	+37 22.8	1.907	2.870	4.8	18.3	12 27	6 34.43	+23 36.4	1.666	2.649	0.9	18.0
1 6	6 24.19	+37 27.4	1.922	2.874	5.9	18.4	1 6	6 24.95	+23 4.2	1.672	2.646	3.6	18.2
1 16	6 14.82	+37 16.1	1.965	2.879	8.8	18.6	1 16	6 16.46	+22 30.7	1.706	2.644	8.0	18.4
1 26	6 7.62	+36 51.8	2.033	2.884	11.8	18.8	1 26	6 10.03	+21 57.9	1.767	2.643	11.9	18.7
2 5	6 3.25	+36 18.8	2.123	2.888	14.4	19.0	2 5	6 6.26	+21 27.6	1.849	2.642	15.2	18.9
490429	2009 <i>SB</i> ₇₇		12 29.0 63°26	6°1/30.1	18		491092	2011 <i>SD</i> ₂₀		12 29.0 34°94	6°2/28.8	17	
11 27	6 55.18	+ 5 33.8	2.061	2.867	13.4	21.2	11 27	7 1.17	+14 27.4	1.206	2.057	18.2	20.2
12 7	6 49.75	+ 5 7.9	1.997	2.875	10.7	21.1	12 7	6 54.62	+12 43.5	1.170	2.082	13.7	20.0
12 17	6 42.51	+ 4 56.3	1.956	2.883	8.0	20.9	12 17	6 45.33	+11 10.1	1.156	2.108	9.2	19.8
12 27	6 34.21	+ 5 0.6	1.942	2.892	6.2	20.8	12 27	6 34.67	+ 9 52.8	1.166	2.134	6.3	19.8
1 6	6 25.76	+ 5 20.7	1.956	2.900	6.6	20.9	1 6	6 24.28	+ 8 55.6	1.203	2.162	7.7	19.9
1 16	6 18.09	+ 5 54.8	1.998	2.909	8.9	21.0	1 16	6 15.60	+ 8 19.9	1.265	2.190	11.5	20.2
1 26	6 12.02	+ 6 39.8	2.066	2.917	11.6	21.2	1 26	6 9.69	+ 8 3.9	1.349	2.220	15.3	20.5
2 5	6 8.10	+ 7 32.1	2.156	2.926	14.1	21.4	2 5	6 7.00	+ 8 3.6	1.453	2.249	18.5	20.8
522329	2016 <i>BT</i> ₁₀₅		12 29.0 279°16	5°4/30.2	18		259326	2003 <i>FY</i> ₇₄		12 29.0 325°63	4°5/29.8	18	
11													

EPHEMERIDES

12 29.0

12 29.0

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
475240	2005 <i>WK</i> ₁₇		12 29.0	70°35'	2.1°/28.7	16	170479	2003 <i>UY</i> ₂₆₁		12 29.0	50°44'	15.5°/28.8	18
11 27	7 5.19	+25 55.9	1.404	2.252	16.3	21.7	11 27	7 0.53	-9 48.7	1.550	2.296	19.7	19.6
12 7	6 57.65	+26 42.9	1.364	2.281	11.7	21.5	12 7	6 53.96	-12 32.9	1.516	2.314	17.7	19.6
12 17	6 47.14	+27 28.7	1.347	2.309	6.7	21.3	12 17	6 44.99	-14 46.2	1.501	2.332	16.2	19.5
12 27	6 35.00	+28 7.5	1.357	2.338	2.3	21.1	12 27	6 34.68	-16 19.5	1.509	2.351	15.5	19.5
1 6	6 22.92	+28 35.2	1.395	2.366	4.9	21.3	1 6	6 24.32	-17 8.4	1.539	2.370	15.8	19.6
1 16	6 12.51	+28 51.1	1.460	2.394	9.5	21.6	1 16	6 15.15	-17 14.3	1.589	2.389	16.9	19.7
1 26	6 4.99	+28 57.3	1.550	2.421	13.6	22.0	1 26	6 8.23	-16 43.6	1.658	2.409	18.3	19.9
2 5	6 0.93	+28 56.9	1.660	2.449	16.9	22.2	2 5	6 4.14	-15 45.6	1.743	2.428	19.8	20.0
193289	2000 <i>SL</i> ₂₃₂		12 29.0	38°37'	6.1°/27.6	18	411107	2009 <i>WA</i> ₅₁		12 29.0	342°11'	6.4°/27.9	16
11 27	7 2.93	+31 34.0	1.266	2.123	17.2	18.1	11 27	6 59.10	+37 18.0	1.693	2.533	14.4	20.5
12 7	6 56.80	+33 24.8	1.223	2.139	12.8	17.8	12 7	6 53.69	+38 18.7	1.620	2.523	11.2	20.3
12 17	6 47.05	+35 10.2	1.202	2.157	8.5	17.7	12 17	6 45.25	+39 10.2	1.571	2.514	8.1	20.1
12 27	6 35.03	+36 39.0	1.207	2.175	6.1	17.6	12 27	6 34.78	+39 45.3	1.547	2.506	6.4	19.9
1 6	6 22.69	+37 43.0	1.238	2.194	8.0	17.7	1 6	6 23.81	+39 59.3	1.550	2.498	7.7	20.0
1 16	6 12.02	+38 20.0	1.294	2.214	11.8	18.0	1 16	6 13.98	+39 51.5	1.579	2.491	10.7	20.1
1 26	6 4.64	+38 33.8	1.373	2.234	15.7	18.3	1 26	6 6.73	+39 25.4	1.632	2.485	14.0	20.3
2 5	6 1.29	+38 30.9	1.471	2.255	18.9	18.6	2 5	6 2.89	+38 46.8	1.705	2.480	17.0	20.5
362977	2013 <i>CU</i> ₃₇		12 29.0	272°25'	1.4°/29.0	18	457331	2008 <i>SC</i> ₁₇₂		12 29.0	90°47'	3.2°/28.7	17
11 27	7 0.59	+21 7.2	1.945	2.780	13.0	20.8	11 27	7 0.04	+33 8.8	2.310	3.139	11.4	21.2
12 7	6 54.10	+20 34.2	1.848	2.759	9.6	20.6	12 7	6 53.28	+33 26.9	2.250	3.153	8.5	21.0
12 17	6 45.21	+20 1.1	1.776	2.737	5.6	20.3	12 17	6 44.51	+33 38.2	2.215	3.167	5.4	20.9
12 27	6 34.73	+19 27.9	1.733	2.714	1.7	20.0	12 27	6 34.61	+33 39.8	2.209	3.181	3.3	20.8
1 6	6 23.79	+18 55.2	1.719	2.691	3.9	20.1	1 6	6 24.65	+33 30.3	2.233	3.195	4.4	20.9
1 16	6 13.64	+18 24.1	1.735	2.668	8.3	20.3	1 16	6 15.67	+33 10.3	2.287	3.208	7.3	21.1
1 26	6 5.41	+17 56.5	1.778	2.645	12.3	20.5	1 26	6 8.58	+32 42.4	2.367	3.222	10.2	21.3
2 5	5 59.83	+17 33.5	1.842	2.621	15.8	20.7	2 5	6 3.91	+32 9.7	2.471	3.235	12.6	21.5
4962	Vecherka		12 29.0	93°48'	8°0'/29.9	18 R	450050	2015 <i>RB</i> ₂₇		12 29.0	130°61'	6.3°/28.2	18
11 27	6 58.31	+2 55.5	1.841	2.638	15.2	16.6	11 27	7 6.65	+41 7.1	2.166	2.975	12.8	21.9
12 7	6 52.09	+1 56.7	1.786	2.653	12.3	16.4	12 7	6 58.45	+42 0.2	2.109	2.989	10.1	21.7
12 17	6 43.85	+1 14.9	1.754	2.668	9.7	16.3	12 17	6 47.59	+42 40.8	2.076	3.002	7.7	21.6
12 27	6 34.47	+0 53.7	1.748	2.683	8.1	16.2	12 27	6 35.15	+43 2.7	2.071	3.015	6.4	21.6
1 6	6 25.01	+0 54.0	1.769	2.697	8.5	16.3	1 6	6 22.55	+43 3.0	2.096	3.027	7.2	21.6
1 16	6 16.52	+1 14.5	1.817	2.712	10.6	16.4	1 16	6 11.22	+42 42.8	2.148	3.039	9.4	21.8
1 26	6 9.90	+1 51.6	1.889	2.726	13.1	16.6	1 26	6 2.34	+42 6.3	2.226	3.050	11.9	22.0
2 5	6 5.69	+2 40.4	1.982	2.739	15.6	16.8	2 5	5 56.56	+41 19.5	2.325	3.061	14.1	22.2
186324	2002 <i>DF</i> ₄		12 29.0	173°70'	3°9'/30.5	18	487129	2014 <i>OG</i> ₁₈₂		12 29.0	105°48'	1°8'/29.6	18
11 27	7 6.86	+7 53.2	1.217	2.044	19.7	19.4	11 27	6 58.26	+15 13.3	2.172	2.997	12.2	21.1
12 7	6 59.70	+9 31.2	1.145	2.045	15.0	19.1	12 7	6 51.99	+15 47.9	2.108	3.011	8.9	20.9
12 17	6 48.86	+11 40.4	1.094	2.046	9.6	18.8	12 17	6 43.82	+16 30.6	2.069	3.025	5.3	20.7
12 27	6 35.43	+14 15.0	1.071	2.047	4.5	18.5	12 27	6 34.51	+17 19.4	2.059	3.038	2.1	20.5
1 6	6 21.15	+17 2.9	1.076	2.047	5.8	18.6	1 6	6 25.03	+18 11.3	2.080	3.051	3.5	20.6
1 16	6 8.04	+19 50.0	1.110	2.047	11.3	18.9	1 16	6 16.33	+19 3.8	2.131	3.064	7.0	20.9
1 26	5 57.93	+22 25.1	1.170	2.047	16.6	19.2	1 26	6 9.30	+19 54.6	2.210	3.076	10.3	21.1
2 5	5 51.88	+24 42.4	1.251	2.047	21.0	19.5	2 5	6 4.48	+20 42.6	2.313	3.089	13.1	21.3
23826	1998 <i>QO</i> ₇₃		12 29.0	151°74'	6°2'/29.9	18	119255	2001 <i>RP</i> ₂₈		12 29.0	188°38'	0°6'/29.1	18
11 27	6 58.09	+4 28.8	2.301	3.092	12.7	19.1	11 27	7 2.04	+21 12.8	1.919	2.753	13.2	21.3
12 7	6 51.68	+3 48.2	2.234	3.101	10.2	19.0	12 7	6 55.04	+21 15.3	1.842	2.752	9.6	21.1
12 17	6 43.56	+3 20.5	2.192	3.110	7.8	18.8	12 17	6 45.69	+21 20.2	1.790	2.751	5.5	20.8
12 27	6 34.44	+3 7.9	2.177	3.118	6.3	18.7	12 27	6 34.85	+21 25.8	1.767	2.750	1.2	20.5
1 6	6 25.19	+3 11.0	2.191	3.125	6.7	18.8	1 6	6 23.73	+21 30.7	1.774	2.747	3.6	20.7
1 16	6 16.68	+3 28.8	2.234	3.132	8.7	18.9	1 16	6 13.55	+21 34.2	1.810	2.744	8.0	20.9
1 26	6 9.69	+3 59.0	2.304	3.138	11.2	19.1	1 26	6 5.39	+21 36.9	1.873	2.740	11.8	21.2
2 5	6 4.73	+4 38.3	2.396	3.143	13.4	19.3	2 5	5 59.92	+21 39.3	1.959	2.736	15.1	21.4
339085	2004 <i>RG</i> ₇₈		12 29.0	92°39'	4°8'/28.5	18	115971	2003 <i>WR</i> ₄₅		12 29.0	281°47'	3°3'/29.8	18
11 27	7 5.00	+33 42.1	1.635	2.473	14.9	20.6	11 27	6 54.82	+11 39.1	2.311	3.131	11.7	19.9
12 7	6 57.60	+34 32.5	1.582	2.488	11.2	20.4	12 7	6 49.51	+11 44.7	2.230	3.127	8.9	19.7
12 17	6 47.22	+35 14.7	1.552	2.503	7.3	20.2	12 17	6 42.45	+11 59.9	2.175	3.122	5.8	19.5
12 27	6 35.07	+35 42.1	1.549	2.518	4.9	20.1	12 27	6 34.29	+12 24.6	2.148	3.118	3.5	19.4
1 6	6 22.78	+35 51.2	1.574	2.533	6.3	20.2	1 6	6 25.88	+12 57.6	2.150	3.114	4.3	19.4
1 16	6 11.95	+35 42.4	1.627	2.547	9.8	20.4	1 16	6 18.08	+13 37.1	2.182	3.110	7.2	19.6
1 26	6 3.88	+35 19.8	1.704	2.561	13.3	20.7	1 26	6 11.72	+14 20.8	2.241	3.106	10.3	19.8
2 5	5 59.23	+34 48.7	1.803	2.575	16.4	20.9	2 5	6 7.35	+15 6.6	2.324	3.101	13.0	20.0
179251	2001 <i>UP</i> ₁₁₁		12 29.0	129°02'	1°9'/29.2	18	53855	2000 <i>FT</i> ₁₉		12 29.0	173°64'	0°6'/29.2	18
11 27	6 58.27	+17 57.9	2.065	2.897	12.4	20.9	11 27	7 1.55	+19 50.9	1.771	2.608	14.0	19.2
12 7	6 52.06	+17 45.2	1.996	2.904	9.1	20.7	12 7	6 54.87	+20 19.7	1.699	2.611	10.2	19.0
12 17	6 43.86	+17 36.9	1.952	2.910	5.4	20.5	12 17	6 45.67	+20 54.1	1.651	2.612	5.8	18.7
12 27	6 34.49	+17 32.7	1.937	2.916	2.1	20.3	12 27	6 34.86	+21 31.1	1.631	2.614	1.2	18.4
1 6	6 24.98	+17 32.0	1.951	2.922	3.7	20.4	1 6	6 23.71	+22 7.5	1.641	2.615	3.8	18.6
1 16	6 16.33	+17 34.4	1.995	2.928	7.4	20.7	1 16	6 13.53	+22 41.2	1.680	2.615	8.3	18.9
1 26	6 9.45	+17 39.7	2.066	2.933	10.9	20.9	1 26	6 5.49	+23 11.1	1.745	2.615	12.4	19.1
2 5	6 4.90	+17 47.4	2.160	2.939	13.8	21.1	2 5	6 0.30	+23 37.3	1.832	2.614	15.8	19.4
372943	2011 <i>BQ</i> ₇₁		12 29.0	242°24'	1°4'/29.2	17	313263	2001 <i>XD</i> ₆₉		12 29.0	9°97'	3°5'/28.3	17
11 27	6 56.05												

EPHEMERIDES

12 29.0

12 29.1

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
81217	2000 <i>FQ</i> ₁₉		12 29.0 354°74	7°7/30.7	18		26368	Alghunaim		12 29.1 82°48	2°8/28.8	18	
11 27	6 55.37	+ 4 8.0	1.512	2.332	16.8	18.9	11 27	7 4.09	+29 0.7	1.522	2.367	15.4	17.9
12 7	6 50.58	+ 3 53.6	1.444	2.329	13.5	18.7	12 7	6 56.95	+29 30.8	1.469	2.383	11.2	17.7
12 17	6 43.31	+ 4 0.5	1.396	2.326	10.2	18.5	12 17	6 46.88	+29 56.6	1.440	2.400	6.7	17.5
12 27	6 34.47	+ 4 31.1	1.372	2.324	7.9	18.4	12 27	6 35.12	+30 13.1	1.437	2.416	3.0	17.3
1 6	6 25.27	+ 5 24.4	1.374	2.323	8.3	18.4	1 6	6 23.27	+30 17.5	1.463	2.432	5.1	17.5
1 16	6 17.01	+ 6 36.6	1.402	2.323	11.1	18.6	1 16	6 12.91	+30 10.0	1.515	2.447	9.4	17.8
1 26	6 10.85	+ 8 1.7	1.454	2.323	14.5	18.8	1 26	6 5.29	+29 53.6	1.593	2.463	13.4	18.0
2 5	6 7.50	+ 9 32.9	1.527	2.323	17.7	19.0	2 5	6 1.04	+29 32.4	1.692	2.479	16.7	18.3
460977	2014 <i>WS</i> ₃₂₆		12 29.0 7°98	3°3/29.8	17		269626	2010 <i>XZ</i> ₇₅		12 29.1 50°09	0°6/29.2	18	
11 27	6 55.12	+12 27.7	2.122	2.948	12.4	20.8	11 27	6 58.12	+20 50.0	1.753	2.598	13.7	20.4
12 7	6 49.83	+12 34.2	2.048	2.948	9.3	20.6	12 7	6 52.24	+21 2.9	1.697	2.613	9.9	20.2
12 17	6 42.67	+12 50.6	1.998	2.948	6.0	20.4	12 17	6 44.09	+21 19.4	1.665	2.628	5.6	20.0
12 27	6 34.35	+13 16.5	1.976	2.949	3.4	20.3	12 27	6 34.64	+21 37.5	1.661	2.643	1.1	19.7
1 6	6 25.80	+13 50.4	1.984	2.950	4.4	20.3	1 6	6 25.07	+21 55.2	1.685	2.659	3.6	19.9
1 16	6 17.95	+14 30.2	2.021	2.951	7.5	20.5	1 16	6 16.59	+22 11.1	1.737	2.675	7.9	20.2
1 26	6 11.68	+15 13.8	2.084	2.952	10.7	20.7	1 26	6 10.18	+22 25.2	1.816	2.691	11.7	20.5
2 5	6 7.56	+15 58.9	2.171	2.953	13.6	20.9	2 5	6 6.42	+22 37.6	1.916	2.708	14.8	20.7
417335	2006 <i>DQ</i> ₅₉		12 29.0 111°93	4°9/28.5	17		314355	2005 <i>TA</i> ₁₅₇		12 29.1 182°65	1°2/28.9	17	
11 27	7 1.09	+38 0.9	2.339	3.159	11.6	21.0	11 27	6 59.31	+26 17.5	2.198	3.033	11.7	21.8
12 7	6 54.25	+38 34.2	2.273	3.165	9.0	20.8	12 7	6 52.91	+26 29.4	2.122	3.033	8.5	21.6
12 17	6 45.18	+38 58.1	2.232	3.171	6.4	20.6	12 17	6 44.44	+26 39.8	2.073	3.033	4.9	21.4
12 27	6 34.80	+39 8.1	2.220	3.177	4.9	20.6	12 27	6 34.71	+26 46.4	2.052	3.033	1.4	21.2
1 6	6 24.25	+39 2.3	2.236	3.183	5.8	20.6	1 6	6 24.76	+26 47.4	2.061	3.033	3.4	21.3
1 16	6 14.71	+38 41.2	2.282	3.188	8.1	20.8	1 16	6 15.65	+26 42.9	2.100	3.032	7.1	21.5
1 26	6 7.16	+38 7.9	2.353	3.194	10.7	21.0	1 26	6 8.32	+26 33.8	2.166	3.031	10.5	21.8
2 5	6 2.21	+37 26.7	2.448	3.199	13.1	21.1	2 5	6 3.39	+26 22.0	2.255	3.030	13.4	21.9
208871	2002 <i>TX</i> ₁₅		12 29.0 232°08	6°7/29.8	18		365518	2010 <i>RW</i> ₁₁₈		12 29.1 64°82	2°2/28.7	18	
11 27	6 57.09	+ 5 50.8	1.920	2.728	14.2	20.1	11 27	6 59.62	+27 16.6	1.865	2.707	13.1	21.0
12 7	6 51.39	+ 5 9.9	1.845	2.724	11.4	19.9	12 7	6 53.46	+27 56.8	1.799	2.713	9.6	20.8
12 17	6 43.61	+ 4 43.0	1.793	2.720	8.6	19.7	12 17	6 44.89	+28 36.0	1.758	2.719	5.6	20.5
12 27	6 34.54	+ 4 32.9	1.767	2.716	6.8	19.6	12 27	6 34.80	+29 9.6	1.745	2.724	2.3	20.3
1 6	6 25.19	+ 4 40.3	1.769	2.712	7.3	19.6	1 6	6 24.46	+29 34.6	1.761	2.730	4.3	20.5
1 16	6 16.62	+ 5 4.2	1.799	2.707	9.8	19.8	1 16	6 15.11	+29 49.8	1.805	2.736	8.2	20.7
1 26	6 9.78	+ 5 41.9	1.853	2.703	12.8	20.0	1 26	6 7.87	+29 56.0	1.875	2.742	11.8	21.0
2 5	6 5.31	+ 6 29.4	1.929	2.698	15.5	20.1	2 5	6 3.41	+29 55.6	1.968	2.748	14.9	21.2
68538	2001 <i>VN</i> ₁₂₅		12 29.1 237°60	1°3/29.2	18		116171	2003 <i>XX</i> ₂		12 29.1 171°96	1°0/28.8	18	
11 27	6 58.07	+19 31.8	2.139	2.972	12.0	19.9	11 27	7 0.99	+23 56.5	2.191	3.023	11.9	19.7
12 7	6 52.03	+19 22.9	2.055	2.964	8.8	19.7	12 7	6 54.18	+24 41.1	2.116	3.026	8.6	19.5
12 17	6 43.96	+19 17.1	1.997	2.957	5.1	19.5	12 17	6 45.21	+25 27.5	2.068	3.029	4.9	19.3
12 27	6 34.61	+19 13.8	1.967	2.949	1.6	19.2	12 27	6 34.87	+26 11.9	2.049	3.031	1.3	19.0
1 6	6 24.97	+19 12.2	1.968	2.940	3.5	19.3	1 6	6 24.21	+26 51.3	2.061	3.032	3.5	19.2
1 16	6 16.08	+19 12.1	1.998	2.932	7.3	19.6	1 16	6 14.34	+27 23.5	2.103	3.033	7.3	19.5
1 26	6 8.87	+19 13.5	2.055	2.923	10.9	19.8	1 26	6 6.24	+27 48.6	2.173	3.034	10.7	19.7
2 5	6 3.98	+19 16.6	2.135	2.914	13.9	20.0	2 5	6 0.60	+28 7.5	2.266	3.034	13.6	19.9
132724	2002 <i>PL</i> ₅		12 29.1 129°09	4°4/29.8	17		332931	2011 <i>CB</i> ₇₂		12 29.1 253°16	0°7/28.9	18	
11 27	6 54.99	+ 8 26.2	2.547	3.353	11.2	21.2	11 27	6 57.34	+23 20.9	2.244	3.080	11.4	20.5
12 7	6 49.39	+ 8 4.8	2.478	3.361	8.7	21.0	12 7	6 51.54	+23 59.8	2.165	3.077	8.3	20.3
12 17	6 42.29	+ 7 53.2	2.435	3.369	6.2	20.8	12 17	6 43.72	+24 41.2	2.111	3.073	4.7	20.1
12 27	6 34.31	+ 7 52.3	2.420	3.377	4.5	20.8	12 27	6 34.61	+25 21.8	2.087	3.070	1.0	19.8
1 6	6 26.21	+ 8 2.0	2.434	3.385	5.0	20.8	1 6	6 25.17	+25 58.9	2.094	3.066	3.3	20.0
1 16	6 18.74	+ 8 21.3	2.478	3.392	7.2	21.0	1 16	6 16.43	+26 30.6	2.130	3.063	7.0	20.2
1 26	6 12.60	+ 8 48.6	2.550	3.399	9.7	21.1	1 26	6 9.31	+26 56.5	2.193	3.059	10.4	20.4
2 5	6 8.25	+ 9 21.6	2.644	3.406	12.0	21.3	2 5	6 4.47	+27 17.0	2.280	3.055	13.2	20.6
460651	2014 <i>UN</i> ₁₃₄		12 29.1 324°51	5°8/28.9	18		519052	2010 <i>KX</i> ₇₉		12 29.1 93°48	0°7/28.9	18	
11 27	6 55.34	+10 33.8	1.861	2.688	13.8	20.2	11 27	6 59.37	+24 2.3	1.861	2.703	13.2	21.2
12 7	6 50.29	+ 9 25.4	1.774	2.670	10.8	20.0	12 7	6 53.21	+24 21.3	1.792	2.707	9.5	21.0
12 17	6 43.08	+ 8 24.9	1.711	2.652	7.8	19.7	12 17	6 44.72	+24 41.3	1.748	2.710	5.4	20.7
12 27	6 34.47	+ 7 35.8	1.675	2.635	5.9	19.6	12 27	6 34.78	+24 59.4	1.732	2.714	1.1	20.4
1 6	6 25.51	+ 7 1.0	1.667	2.618	6.9	19.6	1 6	6 24.60	+25 13.4	1.744	2.718	3.7	20.6
1 16	6 17.27	+ 6 41.6	1.686	2.602	9.8	19.8	1 16	6 15.40	+25 22.3	1.786	2.721	7.9	20.9
1 26	6 10.77	+ 6 37.3	1.730	2.587	13.2	19.9	1 26	6 8.24	+25 26.8	1.854	2.725	11.7	21.1
2 5	6 6.71	+ 6 45.7	1.794	2.572	16.2	20.1	2 5	6 3.77	+25 28.2	1.943	2.729	14.9	21.4
60244	1999 <i>VN</i> ₁₈₆		12 29.1 42°97	6°4/29.6	18		216844	2006 <i>XY</i> ₆₅		12 29.1 45°55	2°3/29.8	18	
11 27	6 59.56	+10 55.3	1.224	2.069	18.4	19.2	11 27	6 58.84	+14 0.2	1.579	2.417	15.3	19.2
12 7	6 53.85	+10 7.8	1.172	2.079	14.1	18.9	12 7	6 52.95	+14 52.2	1.525	2.434	11.3	18.9
12 17	6 45.21	+ 9 35.6	1.140	2.089	9.7	18.7	12 17	6 44.59	+15 56.9	1.494	2.452	6.8	18.7
12 27	6 34.83	+ 9 21.5	1.133	2.100	6.6	18.6	12 27	6 34.76	+17 10.9	1.490	2.470	2.7	18.5
1 6	6 24.31	+ 9 26.2	1.151	2.112	7.7	18.7	1 6	6 24.73	+18 29.0	1.515	2.488	4.3	18.7
1 16	6 15.23	+ 9 47.7	1.193	2.123	11.6	18.9	1 16	6 15.81	+19 46.2	1.569	2.507	8.6	19.0
1 26	6 8.84	+10 22.4	1.258	2.136	15.7	19.2	1 26	6 9.11	+20 58.9	1.648	2.526	12.6	19.2
2 5	6 5.80	+11 5.5	1.343	2.148	19.3	19.5	2 5	6 5.25	+22 4.9	1.750	2.545	15.9	19.5
351402	2005 <i>ET</i> ₂₅₀		12 29.1 232°40	1°1/29.3	18		40908	1999 <i>TW</i> ₁₅₁		12 29.1 213°59	7°7/29.9	18	
11 27	6 59.31												

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
168113	2006 <i>FB</i> ₃		12 29.1 170°34	5°2/30.1	18		265957	2006 <i>BL</i> ₂₆₃		12 29.1 144°05	6°6/28.5	17	
11 27	6 53.95	+ 3 2.2	3.068	3.846	10.1	21.1	11 27	7 4.04	+43 50.0	2.335	3.137	12.2	20.5
12 7	6 48.47	+ 2 35.1	2.993	3.849	8.2	21.0	12 7	6 56.59	+44 28.0	2.268	3.139	9.9	20.3
12 17	6 41.73	+ 2 18.9	2.943	3.852	6.4	20.9	12 17	6 46.63	+44 52.5	2.225	3.142	7.8	20.2
12 27	6 34.25	+ 2 14.9	2.922	3.855	5.3	20.8	12 27	6 35.16	+44 58.1	2.210	3.144	6.7	20.1
1 6	6 26.64	+ 2 23.4	2.930	3.857	5.6	20.8	1 6	6 23.52	+44 42.6	2.222	3.146	7.3	20.2
1 16	6 19.52	+ 2 43.6	2.968	3.859	7.1	20.9	1 16	6 13.04	+44 7.0	2.263	3.148	9.2	20.3
1 26	6 13.46	+ 3 13.7	3.033	3.860	8.9	21.0	1 26	6 4.84	+43 15.6	2.329	3.151	11.5	20.4
2 5	6 8.90	+ 3 51.4	3.122	3.861	10.8	21.2	2 5	5 59.56	+42 14.2	2.417	3.152	13.7	20.6
429425	2010 <i>UX</i> ₆₂		12 29.1 65°34	0°9/29.1	18		152179	2005 <i>QJ</i> ₄		12 29.1 58°85	1°4/28.9	18	
11 27	7 3.42	+21 55.6	1.228	2.084	17.6	20.5	11 27	7 4.56	+25 42.7	1.261	2.117	17.3	19.6
12 7	6 56.79	+21 40.2	1.175	2.095	12.8	20.2	12 7	6 57.44	+25 58.5	1.221	2.142	12.5	19.4
12 17	6 46.92	+21 27.2	1.143	2.107	7.3	19.9	12 17	6 47.18	+26 12.9	1.203	2.167	7.1	19.2
12 27	6 35.17	+21 15.1	1.136	2.119	1.6	19.6	12 27	6 35.23	+26 21.6	1.211	2.193	1.8	18.9
1 6	6 23.32	+21 3.0	1.156	2.131	4.8	19.9	1 6	6 23.42	+26 22.4	1.245	2.219	4.8	19.2
1 16	6 13.13	+20 51.5	1.202	2.143	10.3	20.2	1 16	6 13.42	+26 15.8	1.306	2.244	9.8	19.6
1 26	6 5.95	+20 41.8	1.271	2.155	15.1	20.5	1 26	6 6.48	+26 4.3	1.390	2.270	14.3	19.9
2 5	6 2.43	+20 35.0	1.359	2.167	19.0	20.8	2 5	6 3.13	+25 50.7	1.494	2.296	17.8	20.2
31445	1999 <i>CS</i> ₅		12 29.1 50°98	0°2/29.0	18		73738	1993 <i>RK</i> ₆		12 29.1 173°09	7°1/28.3	18	
11 27	7 0.77	+21 28.0	1.383	2.237	16.2	17.3	11 27	7 6.32	+42 50.3	2.050	2.858	13.4	19.1
12 7	6 54.76	+22 6.8	1.327	2.247	11.7	17.1	12 7	6 58.56	+43 38.8	1.983	2.860	10.8	18.9
12 17	6 45.79	+22 51.0	1.293	2.257	6.6	16.8	12 17	6 47.88	+44 13.4	1.940	2.861	8.4	18.8
12 27	6 34.99	+23 36.0	1.285	2.268	1.1	16.5	12 27	6 35.39	+44 27.3	1.923	2.862	7.2	18.7
1 6	6 23.93	+24 17.5	1.304	2.279	4.4	16.8	1 6	6 22.63	+44 17.4	1.935	2.863	7.9	18.8
1 16	6 14.21	+24 52.7	1.351	2.290	9.5	17.1	1 16	6 11.19	+43 44.8	1.973	2.863	10.1	18.9
1 26	6 7.14	+25 21.0	1.421	2.302	14.0	17.4	1 26	6 2.35	+42 54.2	2.037	2.863	12.7	19.1
2 5	6 3.44	+25 43.4	1.512	2.313	17.7	17.6	2 5	5 56.83	+41 52.7	2.122	2.863	15.2	19.3
308822	2006 <i>QK</i> ₁₇₀		12 29.1 104°68	0°1/29.1	17		143126	2002 <i>XV</i> ₃₂		12 29.1 84°43	3°4/28.4	18	
11 27	7 2.02	+20 10.1	2.222	3.047	11.9	21.2	11 27	7 2.59	+30 26.9	1.859	2.696	13.4	19.4
12 7	6 54.64	+20 58.5	2.167	3.073	8.6	21.0	12 7	6 55.58	+31 21.1	1.806	2.715	9.9	19.2
12 17	6 45.32	+21 50.5	2.139	3.099	4.8	20.8	12 17	6 46.07	+32 10.8	1.778	2.734	6.1	19.0
12 27	6 34.89	+22 42.9	2.142	3.124	0.8	20.6	12 27	6 35.06	+32 50.7	1.779	2.753	3.5	18.9
1 6	6 24.35	+23 32.4	2.176	3.149	3.1	20.8	1 6	6 23.91	+33 17.2	1.808	2.771	5.1	19.0
1 16	6 14.72	+24 16.7	2.241	3.173	6.8	21.1	1 16	6 13.95	+33 29.7	1.866	2.790	8.5	19.3
1 26	6 6.89	+24 55.2	2.335	3.196	10.0	21.3	1 26	6 6.27	+33 30.2	1.950	2.808	11.9	19.5
2 5	6 1.38	+25 28.2	2.452	3.218	12.7	21.5	2 5	6 1.52	+33 22.1	2.056	2.825	14.7	19.7
82886	2001 <i>QC</i> ₈₁		12 29.1 149°64	2°7/28.8	18		229007	2003 <i>XF</i> ₁₁		12 29.1 105°50	1°0/29.3	17	
11 27	7 2.20	+31 58.1	2.386	3.211	11.2	19.8	11 27	7 10.29	+18 30.3	2.652	3.450	11.0	22.5
12 7	6 54.84	+32 11.0	2.317	3.220	8.3	19.6	12 7	7 0.03	+18 46.4	2.603	3.495	8.0	22.4
12 17	6 45.46	+32 18.0	2.275	3.228	5.2	19.5	12 17	6 48.12	+19 4.9	2.584	3.539	4.6	22.2
12 27	6 34.92	+32 16.0	2.262	3.236	2.8	19.3	12 27	6 35.39	+19 23.7	2.599	3.580	1.3	22.0
1 6	6 24.27	+32 3.8	2.280	3.244	4.1	19.4	1 6	6 22.80	+19 41.6	2.649	3.619	2.9	22.2
1 16	6 14.57	+31 42.1	2.327	3.251	7.1	19.6	1 16	6 11.25	+19 57.7	2.733	3.657	6.1	22.5
1 26	6 6.73	+31 13.2	2.403	3.257	10.1	19.8	1 26	6 1.50	+20 12.0	2.848	3.693	9.0	22.7
2 5	6 1.29	+30 40.3	2.502	3.263	12.6	20.0	2 5	5 53.98	+20 25.2	2.990	3.727	11.3	22.9
435479	2008 <i>FG</i> ₁₁₉		12 29.1 265°92	3°7/28.5	18		37634	1993 <i>UZ</i>		12 29.1 9°70	21°0/27.4	18	R
11 27	7 3.42	+29 23.9	1.463	2.312	15.7	21.4	11 27	6 59.54	- 8 5.7	0.949	1.752	25.8	17.8
12 7	6 57.07	+30 15.2	1.388	2.303	11.7	21.1	12 7	6 54.50	-11 32.6	0.910	1.752	23.4	17.6
12 17	6 47.35	+31 4.6	1.335	2.294	7.2	20.9	12 17	6 45.91	-14 21.5	0.887	1.753	21.7	17.5
12 27	6 35.32	+31 45.0	1.309	2.285	3.8	20.6	12 27	6 35.08	-16 15.3	0.881	1.754	21.0	17.5
1 6	6 22.64	+32 11.0	1.309	2.276	5.9	20.7	1 6	6 23.86	-17 4.8	0.893	1.757	21.6	17.5
1 16	6 11.16	+32 20.7	1.337	2.267	10.5	21.0	1 16	6 14.20	-16 50.7	0.920	1.761	23.1	17.6
1 26	6 2.49	+32 16.5	1.388	2.258	15.0	21.2	1 26	6 7.70	-15 43.3	0.961	1.765	25.2	17.8
2 5	5 57.57	+32 2.8	1.459	2.248	18.8	21.4	2 5	6 5.18	-13 57.9	1.014	1.770	27.3	18.0
129593	1997 <i>UZ</i> ₂₄		12 29.1 250°72	4°8/29.7	18		455991	2005 <i>WD</i> ₁₆₂		12 29.1 56°28	0°3/29.0	17	
11 27	6 54.90	+ 8 15.4	2.408	3.215	11.7	20.3	11 27	6 58.68	+22 50.7	1.813	2.656	13.4	20.9
12 7	6 49.53	+ 7 47.8	2.324	3.208	9.2	20.1	12 7	6 52.66	+23 14.0	1.756	2.671	9.7	20.7
12 17	6 42.50	+ 7 30.4	2.266	3.200	6.6	19.9	12 17	6 44.38	+23 39.2	1.723	2.686	5.4	20.5
12 27	6 34.44	+ 7 24.3	2.235	3.192	4.9	19.8	12 27	6 34.78	+24 3.6	1.719	2.701	1.0	20.2
1 6	6 26.12	+ 7 30.2	2.234	3.183	5.5	19.8	1 6	6 25.05	+24 24.8	1.743	2.717	3.6	20.4
1 16	6 18.40	+ 7 47.1	2.261	3.175	7.8	19.9	1 16	6 16.38	+24 41.5	1.796	2.733	7.8	20.7
1 26	6 12.02	+ 8 13.6	2.316	3.167	10.5	20.1	1 26	6 9.76	+24 54.0	1.875	2.748	11.5	21.0
2 5	6 7.55	+ 8 47.1	2.393	3.158	13.0	20.3	2 5	6 5.79	+25 3.0	1.976	2.764	14.6	21.2
119705	2001 <i>XP</i> ₁₆₉		12 29.1 319°39	0°4/29.1	18		163841	2003 <i>SL</i> ₅₁		12 29.1 93°96	2°2/28.8	18	
11 27	6 58.53	+21 13.7	1.385	2.242	16.0	19.8	11 27	7 2.50	+27 42.6	1.746	2.587	14.0	20.7
12 7	6 53.42	+21 28.1	1.307	2.228	11.7	19.5	12 7	6 55.57	+28 13.7	1.689	2.601	10.1	20.5
12 17	6 45.24	+21 47.8	1.251	2.216	6.7	19.2	12 17	6 46.08	+28 42.2	1.656	2.616	5.9	20.3
12 27	6 34.96	+22 10.2	1.221	2.203	1.3	18.8	12 27	6 35.08	+29 4.0	1.651	2.631	2.3	20.1
1 6	6 24.08	+22 32.3	1.217	2.191	4.5	19.0	1 6	6 23.95	+29 16.2	1.675	2.645	4.4	20.2
1 16	6 14.26	+22 52.0	1.239	2.180	9.9	19.3	1 16	6 14.04	+29 18.5	1.728	2.659	8.5	20.5
1 26	6 7.00	+23 8.9	1.284	2.170	14.8	19.6	1 26	6 6.49	+29 12.9	1.806	2.673	12.2	20.8
2 5	6 3.18	+23 23.5	1.350	2.160	19.0	19.8	2 5	6 1.91	+29 2.1	1.906	2.687	15.3	21.0
418558	2008 <i>SH</i> ₁₂₅		12 29.1 104°29	0°0/28.9	14	C	516848	2011 <i>BZ</i> ₁₆₄		12 29.1 63°01	3°4/28.9	16	
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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
198851	2005 <i>JY</i> ₉₈		12 29.1 327°42	9°3/28.3	18		406216	2007 <i>AN</i> ₂₉		12 29.1 10°91	0°3/29.1	17	
11 27	6 55.06	+ 1 11.4	1.959	2.752	14.6	19.3	11 27	6 57.40	+22 44.2	1.560	2.413	14.7	21.3
12 7	6 50.00	- 0 28.0	1.879	2.736	12.3	19.1	12 7	6 52.17	+23 4.1	1.495	2.415	10.6	21.1
12 17	6 42.93	- 1 53.7	1.822	2.721	10.3	18.9	12 17	6 44.31	+23 26.9	1.453	2.418	6.0	20.8
12 27	6 34.56	- 2 59.6	1.791	2.707	9.3	18.8	12 27	6 34.83	+23 49.6	1.438	2.421	1.1	20.5
1 6	6 25.85	- 3 41.8	1.786	2.693	9.9	18.9	1 6	6 25.06	+24 9.6	1.450	2.425	4.0	20.7
1 16	6 17.81	- 3 59.1	1.806	2.680	11.8	18.9	1 16	6 16.39	+24 25.4	1.490	2.430	8.8	21.0
1 26	6 11.39	- 3 53.0	1.850	2.667	14.2	19.1	1 26	6 10.01	+24 37.0	1.554	2.435	13.0	21.3
2 5	6 7.24	- 3 27.8	1.913	2.655	16.6	19.2	2 5	6 6.62	+24 45.4	1.639	2.441	16.5	21.5
274227	2008 <i>KF</i> ₃₁		12 29.1 247°60	5°3/29.7	18		309576	2008 <i>AC</i> ₇₈		12 29.1 63°39	1°0/28.9	18	
11 27	7 0.03	+10 44.8	1.628	2.455	15.5	21.3	11 27	6 59.89	+24 35.7	1.728	2.573	13.9	20.4
12 7	6 54.00	+10 19.9	1.546	2.444	12.0	21.0	12 7	6 53.72	+24 58.3	1.667	2.582	10.0	20.2
12 17	6 45.37	+10 7.4	1.487	2.433	8.2	20.8	12 17	6 45.08	+25 21.4	1.629	2.591	5.7	20.0
12 27	6 35.00	+10 8.9	1.455	2.422	5.4	20.6	12 27	6 34.95	+25 41.7	1.618	2.601	1.3	19.7
1 6	6 24.16	+10 24.6	1.449	2.410	6.4	20.6	1 6	6 24.63	+25 56.8	1.637	2.610	3.9	19.9
1 16	6 14.18	+10 52.9	1.472	2.398	10.1	20.8	1 16	6 15.41	+26 5.8	1.683	2.619	8.3	20.2
1 26	6 6.31	+11 31.4	1.519	2.385	14.1	21.0	1 26	6 8.40	+26 9.5	1.756	2.629	12.1	20.5
2 5	6 1.34	+12 16.5	1.586	2.373	17.6	21.2	2 5	6 4.25	+26 9.5	1.850	2.639	15.4	20.7
191571	2003 <i>WX</i> ₁₇₀		12 29.1 37°44	3°8/30.1	18		289069	2004 <i>TU</i> ₂₁₀		12 29.1 237°10	0°4/29.0	18	
11 27	6 55.81	+10 47.0	1.865	2.692	13.8	19.0	11 27	7 1.44	+23 44.9	1.845	2.684	13.4	21.6
12 7	6 50.48	+11 5.7	1.805	2.704	10.4	18.8	12 7	6 54.92	+23 55.5	1.761	2.674	9.8	21.3
12 17	6 43.13	+11 37.4	1.769	2.718	6.8	18.6	12 17	6 45.85	+24 7.0	1.701	2.663	5.6	21.0
12 27	6 34.59	+12 20.9	1.760	2.731	4.0	18.5	12 27	6 35.11	+24 16.8	1.670	2.652	1.0	20.7
1 6	6 25.88	+13 13.9	1.780	2.745	4.8	18.6	1 6	6 23.94	+24 22.8	1.668	2.641	3.8	20.9
1 16	6 18.04	+14 13.0	1.828	2.760	8.1	18.8	1 16	6 13.66	+24 24.5	1.694	2.630	8.3	21.1
1 26	6 12.00	+15 14.8	1.903	2.775	11.4	19.0	1 26	6 5.47	+24 22.5	1.747	2.617	12.4	21.3
2 5	6 8.32	+16 16.1	2.000	2.790	14.4	19.2	2 5	6 0.12	+24 18.6	1.823	2.605	15.8	21.5
267524	2002 <i>OK</i> ₂₇		12 29.1 231°17	0°7/29.0	18		112266	2002 <i>LP</i> ₁₉		12 29.1 112°04	0°1/29.1	18	
11 27	6 57.66	+25 29.0	2.613	3.443	10.2	21.5	11 27	7 2.47	+23 29.7	2.026	2.858	12.7	19.5
12 7	6 51.55	+25 33.8	2.525	3.434	7.4	21.3	12 7	6 55.09	+23 20.6	1.968	2.877	9.1	19.3
12 17	6 43.67	+25 37.6	2.463	3.423	4.2	21.1	12 17	6 45.63	+23 11.1	1.935	2.896	5.1	19.1
12 27	6 34.69	+25 38.6	2.431	3.413	1.0	20.8	12 27	6 35.03	+22 59.9	1.932	2.914	0.9	18.8
1 6	6 25.46	+25 35.9	2.430	3.402	2.9	21.0	1 6	6 24.43	+22 46.6	1.959	2.932	3.3	19.0
1 16	6 16.86	+25 29.2	2.459	3.391	6.3	21.2	1 16	6 14.93	+22 31.6	2.016	2.950	7.3	19.3
1 26	6 9.70	+25 19.4	2.517	3.380	9.3	21.4	1 26	6 7.42	+22 16.2	2.100	2.966	10.8	19.6
2 5	6 4.55	+25 7.7	2.599	3.368	12.0	21.5	2 5	6 2.43	+22 1.7	2.208	2.982	13.7	19.8
51642	2001 <i>HG</i> ₅₅		12 29.1 104°26	4°6/29.9	18		75446	1999 <i>XV</i> ₁₃₃		12 29.1 285°47	4°9/29.1	18	
11 27	6 55.42	+ 7 52.9	2.513	3.316	11.4	19.1	11 27	7 5.13	+36 49.9	1.762	2.592	14.3	19.3
12 7	6 49.71	+ 7 29.7	2.451	3.332	8.9	19.0	12 7	6 57.79	+36 54.5	1.686	2.587	11.0	19.1
12 17	6 42.52	+ 7 16.8	2.414	3.346	6.4	18.8	12 17	6 47.48	+36 46.7	1.634	2.581	7.5	18.9
12 27	6 34.48	+ 7 15.1	2.406	3.361	4.7	18.7	12 27	6 35.39	+36 21.6	1.609	2.576	5.0	18.7
1 6	6 26.36	+ 7 24.6	2.427	3.375	5.2	18.8	1 6	6 23.07	+35 37.7	1.612	2.571	6.2	18.8
1 16	6 18.92	+ 7 44.1	2.477	3.390	7.3	19.0	1 16	6 12.13	+34 37.4	1.643	2.565	9.6	19.0
1 26	6 12.83	+ 8 11.9	2.555	3.403	9.7	19.1	1 26	6 3.85	+33 26.7	1.700	2.560	13.2	19.2
2 5	6 8.54	+ 8 45.5	2.656	3.417	11.9	19.3	2 5	5 58.93	+32 11.9	1.779	2.555	16.4	19.4
7059	Van Dokkum		12 29.1 131°82	1°2/28.9	18	R	495060	2011 <i>DX</i> ₄₄		12 29.1 295°25	0°2/29.1	18	
11 27	7 5.44	+24 44.7	1.605	2.445	15.0	18.0	11 27	6 56.92	+23 14.0	2.114	2.954	11.9	21.7
12 7	6 57.86	+25 15.5	1.545	2.458	10.9	17.8	12 7	6 51.42	+23 27.3	2.025	2.938	8.7	21.5
12 17	6 47.47	+25 46.7	1.509	2.471	6.2	17.5	12 17	6 43.79	+23 42.2	1.960	2.923	4.9	21.2
12 27	6 35.36	+26 13.9	1.501	2.483	1.6	17.3	12 27	6 34.75	+23 56.5	1.924	2.907	0.9	20.9
1 6	6 23.06	+26 33.8	1.522	2.494	4.3	17.5	1 6	6 25.32	+24 8.6	1.918	2.892	3.3	21.0
1 16	6 12.07	+26 45.4	1.571	2.505	8.9	17.8	1 16	6 16.58	+24 17.4	1.941	2.877	7.4	21.3
1 26	6 3.65	+26 50.1	1.646	2.515	13.1	18.0	1 26	6 9.53	+24 23.0	1.990	2.861	11.0	21.5
2 5	5 58.48	+26 50.1	1.742	2.524	16.5	18.3	2 5	6 4.87	+24 26.4	2.063	2.846	14.2	21.6
101633	1999 <i>CA</i> ₃₄		12 29.1 307°11	0°5/29.2	17		196007	2002 <i>RT</i> ₂₄₂		12 29.1 154°69	4°1/29.8	18	
11 27	6 58.07	+21 17.3	1.764	2.609	13.7	19.9	11 27	6 55.08	+ 9 50.3	2.466	3.277	11.3	20.8
12 7	6 52.50	+21 25.7	1.685	2.600	10.0	19.7	12 7	6 49.60	+ 9 32.3	2.392	3.280	8.7	20.7
12 17	6 44.48	+21 37.6	1.629	2.592	5.7	19.4	12 17	6 42.53	+ 9 23.5	2.343	3.282	6.1	20.5
12 27	6 34.86	+21 51.1	1.601	2.583	1.1	19.0	12 27	6 34.51	+ 9 24.7	2.322	3.285	4.2	20.4
1 6	6 24.84	+22 4.2	1.601	2.575	3.8	19.2	1 6	6 26.32	+ 9 35.7	2.331	3.287	4.8	20.4
1 16	6 15.71	+22 15.9	1.629	2.567	8.3	19.5	1 16	6 18.76	+ 9 55.6	2.370	3.289	7.2	20.6
1 26	6 8.62	+22 25.9	1.683	2.559	12.4	19.7	1 26	6 12.55	+10 22.8	2.436	3.291	9.9	20.8
2 5	6 4.29	+22 34.8	1.758	2.551	15.9	19.9	2 5	6 8.20	+10 55.0	2.525	3.292	12.3	20.9
289786	2005 <i>JX</i> ₁₀₅		12 29.1 325°71	3°7/29.3	17		487450	2014 <i>SQ</i> ₂₄		12 29.1 179°07	5°6/28.3	17	
11 27	6 55.93	+15 53.7	1.371	2.225	16.3	20.4	11 27	7 3.23	+39 41.8	2.290	3.104	12.0	21.5
12 7	6 51.54	+15 27.2	1.286	2.203	12.3	20.1	12 7	6 56.02	+40 24.9	2.219	3.105	9.4	21.3
12 17	6 44.21	+15 8.9	1.223	2.182	7.7	19.8	12 17	6 46.37	+40 57.6	2.174	3.106	7.0	21.2
12 27	6 34.84	+15 0.2	1.185	2.162	4.0	19.5	12 27	6 35.20	+41 14.5	2.156	3.106	5.6	21.1
1 6	6 24.84	+15 1.2	1.172	2.143	5.7	19.6	1 6	6 23.76	+41 13.0	2.167	3.106	6.5	21.1
1 16	6 15.75	+15 11.4	1.185	2.124	10.6	19.8	1 16	6 13.35	+40 53.5	2.207	3.106	8.8	21.3
1 26	6 9.04	+15 29.8	1.221	2.107	15.4	20.0	1 26	6 5.07	+40 19.3	2.272	3.105	11.3	21.4
2 5	6 5.62	+15 54.1	1.276	2.091	19.6	20.2	2 5	5 59.60	+39 35.4	2.360	3.104	13.7	21.6
243051	2007 <i>BB</i> ₆₅		12 29.1 6°40	3°2/29.0	18		362727	2011 <i>UH</i> ₂₆₆		12 29.1 47°01	2°2/28.7	18	
11 27													

EPHEMERIDES

12 29.1

12 29.1

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
304939	2007 <i>SP</i> ₁₈		12 29.1	82°26	0°0/28.9	17	116625	2004 <i>BT</i> ₁₁₈		12 29.1	82°44	9°4/27.4	17
11 27	7 0.89	+22 50.3	1.719	2.561	14.1	21.8	11 27	7 7.98	+52 56.5	2.446	3.209	12.8	19.1
12 7	6 54.35	+22 59.3	1.661	2.575	10.2	21.6	12 7	6 59.97	+54 10.3	2.394	3.217	11.2	19.0
12 17	6 45.40	+23 9.8	1.627	2.589	5.7	21.4	12 17	6 48.82	+55 5.9	2.364	3.225	9.9	19.0
12 27	6 35.04	+23 19.4	1.620	2.603	1.0	21.1	12 27	6 35.70	+55 36.4	2.359	3.233	9.4	18.9
1 6	6 24.56	+23 26.4	1.643	2.617	3.7	21.3	1 6	6 22.26	+55 38.6	2.380	3.241	9.8	19.0
1 16	6 15.25	+23 30.3	1.694	2.631	8.2	21.6	1 16	6 10.18	+55 13.5	2.426	3.249	11.0	19.1
1 26	6 8.17	+23 31.6	1.771	2.644	12.0	21.9	1 26	6 0.89	+54 26.0	2.495	3.257	12.6	19.2
2 5	6 3.91	+23 31.6	1.870	2.658	15.3	22.1	2 5	5 55.11	+53 23.2	2.583	3.265	14.1	19.3
66153	1998 <i>UV</i>		12 29.1	11°95	13°9/31.5	18	154720	2004 <i>MJ</i> ₇		12 29.1	106°90	3°9/28.9	18
11 27	7 18.96	+50 50.2	0.939	1.767	24.1	17.6	11 27	7 6.85	+33 12.5	1.745	2.576	14.4	19.6
12 7	7 10.36	+51 7.8	0.888	1.768	20.4	17.4	12 7	6 58.75	+33 35.1	1.691	2.595	10.7	19.4
12 17	6 55.35	+50 46.2	0.852	1.769	16.7	17.2	12 17	6 47.90	+33 49.1	1.661	2.614	6.8	19.2
12 27	6 36.76	+49 29.9	0.836	1.772	14.2	17.1	12 27	6 35.51	+33 49.7	1.660	2.632	4.0	19.1
1 6	6 18.68	+47 16.1	0.841	1.775	14.4	17.1	1 6	6 23.13	+33 35.0	1.687	2.650	5.4	19.2
1 16	6 4.68	+44 18.4	0.868	1.780	17.1	17.2	1 16	6 12.24	+33 6.6	1.743	2.667	9.0	19.4
1 26	5 56.65	+41 0.0	0.915	1.785	20.8	17.5	1 26	6 3.98	+32 28.7	1.824	2.683	12.5	19.7
2 5	5 54.70	+37 42.4	0.980	1.791	24.5	17.8	2 5	5 58.96	+31 46.4	1.928	2.699	15.5	19.9
431753	2008 <i>GH</i> ₇₄		12 29.1	109°23	2°3/29.5	18	400993	2011 <i>CZ</i> ₁₁₇		12 29.1	335°88	10°5/2.6	17
11 27	7 2.94	+16 3.5	1.678	2.510	14.9	21.6	11 27	7 4.67	- 4 22.7	0.971	1.779	24.9	20.2
12 7	6 55.77	+16 17.6	1.623	2.529	10.9	21.3	12 7	6 58.79	- 3 6.2	0.901	1.774	20.7	19.9
12 17	6 46.18	+16 40.1	1.591	2.548	6.5	21.1	12 17	6 48.80	- 0 54.6	0.846	1.770	15.9	19.6
12 27	6 35.18	+17 9.2	1.588	2.567	2.6	20.9	12 27	6 35.80	+ 2 15.2	0.814	1.766	11.7	19.4
1 6	6 24.08	+17 42.2	1.614	2.585	4.3	21.1	1 6	6 21.74	+ 6 12.6	0.806	1.763	10.8	19.3
1 16	6 14.17	+18 16.9	1.668	2.602	8.5	21.4	1 16	6 8.93	+10 35.2	0.825	1.761	14.5	19.5
1 26	6 6.50	+18 51.6	1.749	2.619	12.3	21.6	1 26	5 59.48	+14 57.1	0.869	1.759	19.7	19.8
2 5	6 1.69	+19 25.3	1.852	2.635	15.6	21.9	2 5	5 54.64	+18 58.6	0.934	1.757	24.5	20.1
473665	2015 <i>XT</i> ₃₄₇		12 29.1	69°75	0°9/29.3	18	24661	1988 <i>GQ</i>		12 29.1	256°22	2°4/29.6	18
11 27	6 57.90	+19 54.5	1.952	2.790	12.8	21.6	11 27	6 59.08	+14 40.1	2.122	2.945	12.5	18.6
12 7	6 52.03	+20 3.2	1.886	2.798	9.3	21.4	12 7	6 53.01	+14 56.6	2.024	2.926	9.4	18.4
12 17	6 44.06	+20 15.9	1.845	2.806	5.3	21.2	12 17	6 44.76	+15 22.1	1.951	2.905	5.8	18.1
12 27	6 34.83	+20 31.0	1.832	2.814	1.3	20.9	12 27	6 35.02	+15 55.6	1.907	2.885	2.7	17.9
1 6	6 25.42	+20 47.0	1.848	2.822	3.5	21.1	1 6	6 24.76	+16 35.2	1.894	2.863	4.0	17.9
1 16	6 16.91	+21 2.6	1.893	2.830	7.5	21.4	1 16	6 15.05	+17 18.7	1.910	2.842	7.8	18.1
1 26	6 10.25	+21 17.4	1.965	2.838	11.1	21.6	1 26	6 6.95	+18 4.0	1.954	2.819	11.5	18.3
2 5	6 6.04	+21 31.4	2.060	2.846	14.1	21.8	2 5	6 1.20	+18 49.3	2.020	2.797	14.7	18.5
275020	2009 <i>UN</i> ₂₆		12 29.1	59°34	1°7/29.3	16	177526	2004 <i>FC</i> ₁₆		12 29.1	255°52	0°9/28.9	18
11 27	7 3.19	+19 7.4	1.250	2.103	17.6	20.4	11 27	6 59.54	+23 58.6	2.094	2.930	12.2	20.4
12 7	6 56.40	+19 7.5	1.209	2.127	12.8	20.2	12 7	6 53.43	+24 34.1	2.004	2.916	8.9	20.1
12 17	6 46.64	+19 14.2	1.190	2.152	7.3	20.0	12 17	6 45.02	+25 11.9	1.940	2.901	5.1	19.9
12 27	6 35.27	+19 25.4	1.196	2.178	2.1	19.7	12 27	6 35.07	+25 48.6	1.905	2.887	1.2	19.6
1 6	6 23.98	+19 39.0	1.229	2.203	4.7	20.0	1 6	6 24.63	+26 21.1	1.899	2.872	3.6	19.7
1 16	6 14.38	+19 53.6	1.288	2.229	9.8	20.3	1 16	6 14.86	+26 47.5	1.923	2.856	7.6	19.9
1 26	6 7.66	+20 8.6	1.371	2.254	14.2	20.7	1 26	6 6.86	+27 7.6	1.975	2.841	11.4	20.1
2 5	6 4.36	+20 23.7	1.474	2.279	17.9	21.0	2 5	6 1.39	+27 22.3	2.049	2.825	14.5	20.3
139212	2001 <i>GE</i> ₃		12 29.1	160°25	5°5/27.2	18	418604	2008 <i>SY</i> ₂₇₀		12 29.1	133°77	3°4/28.4	18
11 27	7 7.41	+37 31.9	2.467	3.275	11.4	20.3	11 27	6 59.18	+33 6.2	2.516	3.342	10.7	21.5
12 7	6 59.13	+39 10.3	2.399	3.283	8.9	20.2	12 7	6 52.82	+33 49.9	2.447	3.348	8.0	21.3
12 17	6 48.25	+40 41.5	2.359	3.290	6.6	20.0	12 17	6 44.48	+34 28.5	2.404	3.354	5.2	21.2
12 27	6 35.61	+41 58.4	2.350	3.296	5.5	20.0	12 27	6 34.94	+34 58.2	2.391	3.359	3.5	21.1
1 6	6 22.41	+42 55.7	2.371	3.302	6.5	20.1	1 6	6 25.17	+35 16.4	2.408	3.365	4.6	21.1
1 16	6 9.97	+43 31.7	2.423	3.306	8.8	20.2	1 16	6 16.18	+35 22.6	2.454	3.370	7.2	21.3
1 26	5 59.52	+43 48.6	2.502	3.311	11.2	20.4	1 26	6 8.85	+35 18.3	2.527	3.375	9.8	21.5
2 5	5 51.87	+43 50.7	2.603	3.314	13.3	20.6	2 5	6 3.79	+35 6.2	2.624	3.379	12.2	21.7
220658	2004 <i>RO</i> ₁₄₈		12 29.1	86°44	0°5/29.2	18	117861	2005 <i>LB</i> ₂		12 29.1	223°61	0°8/28.9	18
11 27	6 58.00	+20 55.0	2.084	2.920	12.2	20.4	11 27	7 0.36	+22 54.0	2.142	2.975	12.0	20.5
12 7	6 51.99	+21 8.6	2.019	2.931	8.8	20.2	12 7	6 53.95	+23 42.9	2.057	2.968	8.8	20.3
12 17	6 44.00	+21 25.4	1.980	2.941	5.0	19.9	12 17	6 45.28	+24 35.3	1.999	2.960	5.0	20.1
12 27	6 34.83	+21 43.2	1.970	2.952	1.0	19.7	12 27	6 35.11	+25 27.5	1.969	2.951	1.1	19.8
1 6	6 25.51	+22 0.6	1.989	2.962	3.2	19.9	1 6	6 24.48	+26 15.8	1.970	2.942	3.5	20.0
1 16	6 17.05	+22 16.3	2.037	2.973	7.1	20.1	1 16	6 14.53	+26 57.6	2.002	2.933	7.5	20.2
1 26	6 10.36	+22 30.1	2.113	2.983	10.5	20.4	1 26	6 6.33	+27 32.2	2.061	2.924	11.1	20.4
2 5	6 6.00	+22 42.3	2.212	2.994	13.4	20.6	2 5	6 0.60	+28 0.2	2.143	2.914	14.1	20.6
401364	2013 <i>BF</i> ₄₃		12 29.1	177°24	1°0/29.3	18	352984	2009 <i>BN</i> ₉₃		12 29.1	358°00	0°9/29.1	17
11 27	6 59.66	+18 43.0	2.063	2.895	12.5	21.3	11 27	6 58.66	+25 35.9	1.306	2.168	16.4	20.5
12 7	6 53.30	+19 6.9	1.988	2.896	9.1	21.1	12 7	6 53.57	+25 32.4	1.241	2.164	12.0	20.3
12 17	6 44.82	+19 36.3	1.938	2.897	5.3	20.9	12 17	6 45.33	+25 27.3	1.197	2.162	6.9	20.0
12 27	6 34.99	+20 9.2	1.916	2.898	1.4	20.6	12 27	6 35.12	+25 18.1	1.178	2.161	1.5	19.6
1 6	6 24.86	+20 43.1	1.925	2.898	3.4	20.8	1 6	6 24.59	+25 3.4	1.186	2.161	4.6	19.8
1 16	6 15.52	+21 16.1	1.963	2.898	7.4	21.0	1 16	6 15.42	+24 43.8	1.219	2.161	10.0	20.1
1 26	6 7.96	+21 47.0	2.029	2.897	11.0	21.2	1 26	6 9.02	+24 21.8	1.275	2.163	14.7	20.4
2 5	6 2.82	+22 15.5	2.118	2.896	14.0	21.4	2 5	6 6.13	+23 59.8	1.351	2.165	18.7	20.7
345442	2006 <i>DE</i> ₁₈₂		12 29.1	24°74	0°4/29.1	16	389917	2012 <i>TH</i> ₉₁		12 29.1	343°55	1°0/28.9	18
11 27	7 0.												

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
176700	2002 QW ₂₂		12 29.1 255°49	3°4/29.6	18		194540	2001 XP ₅₁		12 29.1 80°11	0°7/29.0	18	
11 27	7 0.79	+14 18.1	1.540	2.377	15.7	20.5	11 27	7 3.36	+23 36.4	1.514	2.359	15.5	20.7
12 7	6 54.81	+14 21.1	1.458	2.366	11.8	20.2	12 7	6 56.38	+24 0.7	1.463	2.379	11.1	20.5
12 17	6 46.00	+14 35.5	1.398	2.354	7.4	19.9	12 17	6 46.65	+24 26.3	1.436	2.399	6.3	20.3
12 27	6 35.27	+15 0.9	1.365	2.342	3.7	19.7	12 27	6 35.35	+24 49.5	1.436	2.419	1.3	20.0
1 6	6 23.96	+15 35.3	1.360	2.330	5.2	19.7	1 6	6 23.98	+25 7.4	1.465	2.438	4.1	20.2
1 16	6 13.55	+16 16.1	1.382	2.317	9.8	20.0	1 16	6 14.01	+25 19.0	1.521	2.458	8.9	20.6
1 26	6 5.41	+17 0.6	1.429	2.304	14.2	20.2	1 26	6 6.62	+25 25.3	1.602	2.477	13.0	20.9
2 5	6 0.40	+17 46.5	1.497	2.291	18.1	20.4	2 5	6 2.43	+25 28.1	1.704	2.496	16.4	21.1
474281	2001 UQ ₄₉		12 29.1 38°03	2°9/28.5	18		69872	1998 SY ₇₀		12 29.1 311°78	4°5/29.8	18	
11 27	7 2.09	+24 40.0	1.095	1.961	18.6	20.0	11 27	6 55.38	+ 9 55.5	2.158	2.975	12.5	19.0
12 7	6 56.27	+26 6.3	1.057	1.982	13.4	19.8	12 7	6 50.09	+ 9 35.4	2.081	2.973	9.7	18.8
12 17	6 46.89	+27 35.1	1.040	2.005	7.7	19.5	12 17	6 42.96	+ 9 25.8	2.029	2.970	6.7	18.6
12 27	6 35.39	+28 56.8	1.048	2.029	3.0	19.3	12 27	6 34.71	+ 9 27.5	2.004	2.967	4.6	18.5
1 6	6 23.77	+30 3.4	1.082	2.053	5.9	19.6	1 6	6 26.22	+ 9 40.6	2.008	2.965	5.3	18.5
1 16	6 13.98	+30 51.3	1.140	2.078	11.0	20.0	1 16	6 18.41	+10 3.9	2.041	2.963	8.0	18.7
1 26	6 7.50	+31 22.1	1.221	2.104	15.6	20.3	1 26	6 12.13	+10 35.4	2.100	2.960	11.0	18.9
2 5	6 5.00	+31 39.4	1.321	2.131	19.3	20.6	2 5	6 7.95	+11 12.5	2.181	2.958	13.7	19.0
11385	Beauvoir		12 29.1 199°16	0°3/29.2	18		23265	von Wurden		12 29.1 346°94	1°5/29.2	18	
11 27	6 57.00	+21 29.3	2.412	3.245	10.9	18.3	11 27	6 58.88	+20 4.2	1.483	2.334	15.4	18.7
12 7	6 51.16	+21 40.5	2.333	3.243	7.9	18.2	12 7	6 53.38	+19 54.2	1.413	2.331	11.3	18.5
12 17	6 43.53	+21 53.9	2.280	3.241	4.5	17.9	12 17	6 45.12	+19 48.5	1.365	2.328	6.6	18.2
12 27	6 34.79	+22 8.0	2.257	3.239	0.9	17.7	12 27	6 35.11	+19 46.1	1.343	2.325	1.9	17.9
1 6	6 25.82	+22 21.4	2.264	3.237	2.9	17.8	1 6	6 24.75	+19 46.0	1.349	2.323	4.4	18.1
1 16	6 17.52	+22 33.1	2.300	3.235	6.5	18.1	1 16	6 15.52	+19 47.6	1.381	2.321	9.3	18.3
1 26	6 10.71	+22 43.2	2.365	3.232	9.7	18.3	1 26	6 8.67	+19 51.1	1.438	2.320	13.8	18.6
2 5	6 5.97	+22 51.8	2.454	3.229	12.4	18.4	2 5	6 4.94	+19 56.4	1.515	2.319	17.5	18.8
176643	2002 NB ₁₁		12 29.1 162°90	0°4/29.2	18		106212	2000 UJ ₃₃		12 29.1 331°26	1°3/28.9	18	
11 27	7 4.36	+22 16.8	1.873	2.705	13.5	20.9	11 27	7 1.48	+23 49.7	1.252	2.111	17.2	19.4
12 7	6 56.79	+22 12.5	1.803	2.712	9.8	20.7	12 7	6 55.89	+24 27.0	1.184	2.106	12.6	19.1
12 17	6 46.80	+22 9.2	1.757	2.718	5.6	20.4	12 17	6 46.83	+25 8.2	1.137	2.102	7.2	18.8
12 27	6 35.38	+22 5.2	1.741	2.723	1.1	20.1	12 27	6 35.44	+25 48.0	1.116	2.098	1.7	18.5
1 6	6 23.76	+21 59.5	1.754	2.728	3.6	20.3	1 6	6 23.49	+26 21.2	1.121	2.095	5.0	18.7
1 16	6 13.21	+21 52.0	1.798	2.731	8.0	20.6	1 16	6 12.86	+26 45.4	1.151	2.091	10.6	19.0
1 26	6 4.82	+21 43.9	1.868	2.734	11.9	20.9	1 26	6 5.19	+27 0.8	1.204	2.089	15.7	19.3
2 5	5 59.23	+21 36.3	1.961	2.736	15.1	21.1	2 5	6 1.38	+27 9.7	1.276	2.086	19.8	19.5
331657	2002 PF ₃₃		12 29.1 153°01	2°9/29.6	18		365609	2010 UA ₂₂		12 29.1 140°22	0°8/29.0	18	
11 27	7 2.49	+14 56.8	1.780	2.607	14.3	22.1	11 27	6 59.28	+24 25.9	2.078	2.915	12.2	21.3
12 7	6 55.47	+14 54.9	1.713	2.616	10.7	21.9	12 7	6 53.05	+24 46.5	2.007	2.919	8.8	21.1
12 17	6 46.08	+15 1.5	1.670	2.624	6.6	21.7	12 17	6 44.69	+25 7.6	1.961	2.923	5.0	20.9
12 27	6 35.25	+15 16.0	1.654	2.631	3.2	21.5	12 27	6 35.02	+25 26.5	1.944	2.927	1.1	20.6
1 6	6 24.20	+15 36.8	1.668	2.637	4.6	21.6	1 6	6 25.12	+25 41.1	1.957	2.930	3.4	20.8
1 16	6 14.16	+16 2.4	1.711	2.643	8.5	21.9	1 16	6 16.08	+25 50.7	2.000	2.934	7.3	21.1
1 26	6 6.22	+16 31.1	1.781	2.648	12.3	22.1	1 26	6 8.88	+25 55.6	2.069	2.937	10.8	21.3
2 5	6 1.01	+17 1.4	1.873	2.652	15.6	22.3	2 5	6 4.15	+25 57.1	2.161	2.940	13.8	21.5
283294	2011 JA ₃₁		12 29.1 233°89	1°5/28.9	18		164006	Thierry		12 29.1 13°73	0°0/28.9	18	
11 27	7 2.83	+26 10.7	1.779	2.618	13.8	21.7	11 27	6 58.06	+23 3.6	1.249	2.113	16.9	19.8
12 7	6 56.11	+26 32.4	1.696	2.609	10.1	21.5	12 7	6 53.09	+23 2.5	1.192	2.117	12.3	19.5
12 17	6 46.65	+26 53.3	1.637	2.598	5.9	21.2	12 17	6 45.03	+23 3.5	1.156	2.122	7.0	19.3
12 27	6 35.38	+27 9.8	1.606	2.588	1.8	20.9	12 27	6 35.09	+23 4.1	1.145	2.128	1.2	18.9
1 6	6 23.63	+27 19.0	1.605	2.577	4.2	21.1	1 6	6 24.92	+23 2.8	1.160	2.135	4.5	19.2
1 16	6 12.82	+27 20.0	1.632	2.565	8.7	21.3	1 16	6 16.17	+22 59.3	1.200	2.143	9.9	19.5
1 26	6 4.26	+27 14.4	1.684	2.553	12.8	21.5	1 26	6 10.20	+22 54.5	1.263	2.153	14.7	19.8
2 5	5 58.74	+27 4.5	1.759	2.540	16.3	21.7	2 5	6 7.70	+22 49.5	1.345	2.163	18.6	20.1
281067	2006 KU ₁₃₀		12 29.1 7°01	7°6/28.1	17		431221	2006 SF ₂₅₉		12 29.1 91°17	3°7/29.5	16	
11 27	6 58.77	+ 7 25.0	1.891	2.701	14.3	19.5	11 27	7 3.83	+14 48.9	1.452	2.289	16.5	21.6
12 7	6 52.59	+ 5 28.8	1.823	2.702	11.5	19.4	12 7	6 56.59	+14 29.2	1.404	2.311	12.3	21.4
12 17	6 44.37	+ 3 42.2	1.780	2.704	8.9	19.2	12 17	6 46.70	+14 19.3	1.378	2.333	7.6	21.2
12 27	6 34.94	+ 2 11.0	1.766	2.706	7.6	19.1	12 27	6 35.36	+14 19.2	1.379	2.354	3.9	21.0
1 6	6 25.37	+ 0 59.7	1.780	2.708	8.4	19.2	1 6	6 24.03	+14 27.9	1.407	2.375	5.4	21.2
1 16	6 16.69	+ 0 10.6	1.821	2.711	10.8	19.3	1 16	6 14.12	+14 44.0	1.463	2.396	9.6	21.5
1 26	6 9.84	- 0 16.9	1.887	2.715	13.5	19.5	1 26	6 6.75	+15 5.7	1.544	2.416	13.6	21.7
2 5	6 5.39	- 0 25.8	1.973	2.719	16.0	19.7	2 5	6 2.49	+15 31.2	1.646	2.436	16.9	22.0
46551	1989 TC ₄		12 29.1 61°25	1°0/29.3	18		347575	2001 AC ₆		12 29.1 46°97	0°3/29.1	17	
11 27	7 0.12	+20 2.6	1.615	2.459	14.7	18.7	11 27	7 3.95	+25 2.5	1.249	2.105	17.4	19.3
12 7	6 53.87	+20 11.5	1.562	2.477	10.7	18.5	12 7	6 56.92	+24 44.5	1.212	2.133	12.5	19.1
12 17	6 45.17	+20 25.1	1.534	2.496	6.1	18.3	12 17	6 46.91	+24 25.1	1.196	2.161	7.0	18.9
12 27	6 35.08	+20 41.1	1.532	2.514	1.5	18.0	12 27	6 35.37	+24 2.6	1.207	2.189	1.3	18.6
1 6	6 24.92	+20 57.6	1.559	2.533	3.9	18.2	1 6	6 24.10	+23 36.9	1.244	2.219	4.4	18.9
1 16	6 15.97	+21 13.4	1.613	2.551	8.4	18.6	1 16	6 14.67	+23 9.8	1.307	2.248	9.6	19.3
1 26	6 9.29	+21 28.0	1.693	2.570	12.3	18.8	1 26	6 8.23	+22 43.8	1.395	2.278	14.0	19.6
2 5	6 5.46	+21 41.7	1.795	2.589	15.6	19.1	2 5	6 5.24	+22 20.7	1.502	2.308	17.6	19.9
514119	2015 FR ₁₇₃		12 29.1 188°01	0°4/29.1	18		95976	2004 LY ₁₇		12 29.1 112°10	0°9/28.9	18	
11 27	7 3.11	+22 6.6	1.656	2.496	14.6	22.4	11 27	7 3.80	+24 40.6	1.830	2.665	13	

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
456132	2006 <i>DF</i> ₁₀₆	12 29.1 230°39			1.4/28.9 18		490405	2009 <i>RP</i> ₃₄	12 29.1 338°62			5.8/29.7 17	
11 27	6 57.97	+27 25.9	2.627	3.457	10.2	22.2	11 27	6 55.50	+8 8.9	1.966	2.783	13.6	21.2
12 7	6 51.87	+27 43.2	2.540	3.448	7.4	22.0	12 7	6 50.32	+7 28.2	1.891	2.779	10.7	21.0
12 17	6 43.95	+27 58.6	2.479	3.438	4.3	21.8	12 17	6 43.17	+6 59.3	1.840	2.775	7.8	20.8
12 27	6 34.90	+28 10.0	2.448	3.428	1.6	21.6	12 27	6 34.80	+6 44.6	1.816	2.772	5.9	20.7
1 6	6 25.57	+28 15.8	2.447	3.417	3.2	21.7	1 6	6 26.17	+6 44.8	1.820	2.769	6.5	20.7
1 16	6 16.85	+28 15.4	2.477	3.407	6.4	21.9	1 16	6 18.30	+6 59.4	1.851	2.766	9.1	20.9
1 26	6 9.60	+28 9.6	2.535	3.396	9.4	22.1	1 26	6 12.08	+7 26.1	1.907	2.764	12.1	21.0
2 5	6 4.39	+28 0.2	2.617	3.384	12.0	22.3	2 5	6 8.13	+8 1.8	1.985	2.762	14.9	21.2
189764	2002 <i>AS</i> ₁₉₁	12 29.1 109°48			0.2/29.1 18		332595	2008 <i>SD</i> ₂₀₁	12 29.1 66°13			3.1/29.5 17	
11 27	7 3.36	+23 15.7	1.701	2.540	14.3	20.4	11 27	6 55.98	+14 16.0	2.237	3.063	11.8	21.1
12 7	6 56.15	+23 6.8	1.641	2.554	10.4	20.2	12 7	6 50.40	+13 51.4	2.169	3.070	8.9	20.9
12 17	6 46.45	+22 58.1	1.606	2.568	5.9	19.9	12 17	6 43.09	+13 33.4	2.126	3.077	5.7	20.7
12 27	6 35.33	+22 48.0	1.599	2.582	1.1	19.6	12 27	6 34.77	+13 22.5	2.111	3.084	3.3	20.6
1 6	6 24.15	+22 35.7	1.621	2.595	3.8	19.9	1 6	6 26.32	+13 18.8	2.126	3.091	4.2	20.7
1 16	6 14.22	+22 21.6	1.672	2.608	8.3	20.2	1 16	6 18.61	+13 22.0	2.170	3.098	7.2	20.9
1 26	6 6.61	+22 7.3	1.748	2.620	12.3	20.4	1 26	6 12.44	+13 31.1	2.241	3.105	10.3	21.1
2 5	6 1.94	+21 54.2	1.847	2.632	15.5	20.7	2 5	6 8.32	+13 44.8	2.335	3.112	12.9	21.3
13672	Tarski	12 29.1 136°16			1.1/29.3 18		130383	2000 <i>HA</i> ₆₁	12 29.1 156°63			0.9/29.2 18	
11 27	6 59.84	+19 53.0	1.948	2.784	13.0	19.1	11 27	7 5.16	+20 27.5	1.676	2.511	14.8	20.9
12 7	6 53.47	+19 53.7	1.880	2.790	9.4	18.9	12 7	6 57.61	+20 33.3	1.609	2.519	10.8	20.7
12 17	6 44.92	+19 58.1	1.836	2.796	5.4	18.7	12 17	6 47.39	+20 42.8	1.566	2.527	6.2	20.5
12 27	6 35.08	+20 4.7	1.820	2.802	1.5	18.4	12 27	6 35.56	+20 53.8	1.552	2.534	1.4	20.2
1 6	6 25.04	+20 12.4	1.834	2.807	3.6	18.6	1 6	6 23.49	+21 4.4	1.566	2.540	4.0	20.4
1 16	6 15.92	+20 20.4	1.878	2.813	7.6	18.9	1 16	6 12.60	+21 13.7	1.610	2.545	8.7	20.7
1 26	6 8.72	+20 28.6	1.948	2.818	11.3	19.1	1 26	6 4.07	+21 21.9	1.680	2.549	12.8	20.9
2 5	6 4.03	+20 37.0	2.040	2.823	14.4	19.3	2 5	5 58.59	+21 29.7	1.772	2.553	16.3	21.2
132848	2002 <i>RK</i> ₄₇	12 29.1 127°41			0.8/28.9 18		57380	2001 <i>RY</i> ₆₆	12 29.1 296°47			0.8/29.2 18	
11 27	6 57.58	+25 15.1	2.746	3.574	9.8	20.7	11 27	7 1.45	+22 15.5	1.501	2.349	15.4	18.8
12 7	6 51.35	+25 33.6	2.680	3.588	7.1	20.5	12 7	6 55.28	+21 56.6	1.427	2.344	11.3	18.5
12 17	6 43.55	+25 51.5	2.640	3.600	4.0	20.4	12 17	6 46.24	+21 38.5	1.376	2.339	6.5	18.2
12 27	6 34.82	+26 6.9	2.631	3.613	1.0	20.1	12 27	6 35.38	+21 20.3	1.352	2.334	1.4	17.9
1 6	6 25.98	+26 18.3	2.653	3.625	2.8	20.3	1 6	6 24.16	+21 1.7	1.355	2.329	4.3	18.1
1 16	6 17.83	+26 25.3	2.706	3.636	5.8	20.5	1 16	6 14.11	+20 43.3	1.385	2.324	9.4	18.4
1 26	6 11.08	+26 28.3	2.787	3.648	8.6	20.7	1 26	6 6.54	+20 26.6	1.441	2.320	13.9	18.6
2 5	6 6.21	+26 28.3	2.893	3.659	10.9	20.9	2 5	6 2.22	+20 12.9	1.516	2.315	17.7	18.9
156799	2003 <i>BD</i> ₁₈	12 29.1 16°15			0.6/29.2 18 R		514192	2015 <i>MO</i> ₁₀₁	12 29.1 175°14			2.0/29.5 18	
11 27	6 58.49	+21 27.7	1.112	1.981	18.1	19.5	11 27	7 0.92	+16 33.7	1.875	2.705	13.6	21.7
12 7	6 53.67	+21 32.9	1.058	1.985	13.2	19.2	12 7	6 54.38	+16 44.5	1.801	2.707	10.0	21.5
12 17	6 45.47	+21 43.2	1.024	1.990	7.5	18.9	12 17	6 45.54	+17 2.7	1.751	2.709	6.0	21.3
12 27	6 35.20	+21 55.9	1.014	1.997	1.5	18.5	12 27	6 35.24	+17 27.0	1.730	2.710	2.3	21.0
1 6	6 24.65	+22 8.2	1.029	2.005	4.9	18.8	1 6	6 24.64	+17 55.2	1.739	2.710	4.0	21.1
1 16	6 15.66	+22 18.9	1.068	2.014	10.6	19.1	1 16	6 14.93	+18 25.6	1.777	2.711	8.1	21.4
1 26	6 9.70	+22 28.0	1.130	2.024	15.7	19.5	1 26	6 7.17	+18 56.6	1.841	2.710	11.9	21.6
2 5	6 7.50	+22 36.0	1.210	2.035	19.8	19.7	2 5	6 2.03	+19 27.4	1.928	2.709	15.1	21.8
493419	2014 <i>WY</i> ₂₅₁	12 29.1 67°82			0.4/29.1 17		194920	2002 <i>AB</i> ₁₂₄	12 29.1 27°24			6.8/29.5 18	
11 27	6 59.37	+23 17.3	2.149	2.983	11.9	21.1	11 27	7 4.31	+37 34.8	1.041	1.902	19.7	18.4
12 7	6 52.79	+22 53.2	2.093	3.003	8.6	20.9	12 7	6 58.17	+37 46.0	1.003	1.918	15.1	18.2
12 17	6 44.37	+22 28.8	2.062	3.024	4.8	20.7	12 17	6 47.98	+37 38.9	0.984	1.936	10.3	18.0
12 27	6 34.96	+22 3.6	2.061	3.044	0.9	20.4	12 27	6 35.64	+37 7.1	0.987	1.956	7.0	17.8
1 6	6 25.57	+21 37.9	2.090	3.064	3.1	20.6	1 6	6 23.55	+36 10.2	1.014	1.977	8.2	18.0
1 16	6 17.19	+21 12.4	2.149	3.084	6.8	20.9	1 16	6 13.88	+34 54.4	1.065	1.999	12.2	18.3
1 26	6 10.60	+20 48.6	2.235	3.104	10.1	21.2	1 26	6 8.04	+33 29.3	1.138	2.022	16.4	18.6
2 5	6 6.30	+20 27.2	2.345	3.124	12.8	21.4	2 5	6 6.47	+32 3.7	1.229	2.046	20.1	18.9
372236	2008 <i>UL</i> ₁₁₆	12 29.1 138°26			2.4/28.8 18		433988	1999 <i>YK</i> ₂₃	12 29.1 38°47			2.1/29.3 16	
11 27	6 58.58	+30 57.3	2.619	3.446	10.3	21.5	11 27	7 0.72	+18 58.1	1.113	1.976	18.6	21.1
12 7	6 52.23	+31 16.8	2.548	3.453	7.5	21.4	12 7	6 55.09	+18 50.4	1.066	1.989	13.6	20.8
12 17	6 44.10	+31 32.0	2.505	3.460	4.6	21.2	12 17	6 46.17	+18 50.3	1.040	2.004	7.9	20.6
12 27	6 34.93	+31 40.2	2.491	3.466	2.5	21.1	12 27	6 35.35	+18 56.4	1.038	2.019	2.5	20.3
1 6	6 25.61	+31 40.0	2.507	3.472	3.7	21.1	1 6	6 24.44	+19 6.8	1.060	2.035	5.1	20.5
1 16	6 17.05	+31 31.5	2.554	3.478	6.5	21.3	1 16	6 15.21	+19 19.9	1.108	2.052	10.6	20.9
1 26	6 10.06	+31 16.1	2.628	3.483	9.2	21.5	1 26	6 9.02	+19 35.0	1.178	2.069	15.4	21.2
2 5	6 5.17	+30 56.0	2.726	3.489	11.6	21.7	2 5	6 6.50	+19 51.1	1.267	2.087	19.4	21.5
279421	2010 <i>GR</i> ₁₅₂	12 29.1 253°18			2.3/28.9 18		158153	2001 <i>KE</i> ₄₉	12 29.1 129°91			0.9/29.2 18	
11 27	6 58.67	+30 48.5	2.398	3.229	11.0	21.0	11 27	7 6.97	+20 46.3	1.559	2.395	15.6	21.1
12 7	6 52.47	+30 55.6	2.320	3.227	8.1	20.8	12 7	6 58.93	+20 49.1	1.502	2.413	11.3	20.9
12 17	6 44.32	+30 57.8	2.268	3.224	4.9	20.6	12 17	6 48.11	+20 55.3	1.468	2.429	6.5	20.7
12 27	6 34.99	+30 52.7	2.244	3.221	2.4	20.5	12 27	6 35.69	+21 2.4	1.463	2.445	1.5	20.4
1 6	6 25.47	+30 39.0	2.251	3.219	3.8	20.6	1 6	6 23.18	+21 8.7	1.486	2.460	4.1	20.6
1 16	6 16.76	+30 17.3	2.288	3.216	6.9	20.7	1 16	6 12.06	+21 13.7	1.538	2.473	9.0	20.9
1 26	6 9.74	+29 49.5	2.352	3.213	10.0	20.9	1 26	6 3.55	+21 17.8	1.616	2.486	13.2	21.2
2 5	6 4.99	+29 18.2	2.439	3.210	12.6	21.1	2 5	5 58.26	+21 22.1	1.715	2.498	16.6	21.4
414518	2009 <i>SU</i> ₄₃	12 29.1 173°88			1.1/29.3 17		213983	2004 <i>AH</i> ₁₀	12 29.1 208°12			3.1/29.9 18	
11 27	6 57.63	+19 45.1	2.572	3.398	10.5	22.2	11 27	6 58.63	+12 24.7	2.058	2.879	12.9	20.8
12 7	6 51												

EPHEMERIDES

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
404302	2013 <i>EZ</i> ₁₁₅	12 29.1 151°29	2°3/28.8	18			117067	2004 <i>KS</i> ₁₀	12 29.1 153°99	4°3/29.9	18		
11 27	7 1.07	+28 49.9	2.104	2.938	12.2	22.0	11 27	6 57.41	+9 29.8	2.281	3.090	12.2	20.6
12 7	6 54.42	+29 20.5	2.034	2.943	8.9	21.8	12 7	6 51.45	+9 17.1	2.209	3.096	9.4	20.4
12 17	6 45.53	+29 48.3	1.989	2.947	5.3	21.6	12 17	6 43.73	+9 14.7	2.162	3.102	6.5	20.2
12 27	6 35.26	+30 9.4	1.974	2.952	2.4	21.4	12 27	6 34.95	+9 23.5	2.144	3.107	4.5	20.1
1 6	6 24.74	+30 21.5	1.988	2.956	4.1	21.5	1 6	6 26.00	+9 42.7	2.155	3.111	5.1	20.2
1 16	6 15.15	+30 24.0	2.031	2.959	7.6	21.7	1 16	6 17.75	+10 11.1	2.195	3.115	7.6	20.3
1 26	6 7.49	+30 18.4	2.101	2.963	11.0	22.0	1 26	6 11.00	+10 46.6	2.263	3.119	10.5	20.5
2 5	6 2.42	+30 7.2	2.194	2.966	13.8	22.2	2 5	6 6.30	+11 26.7	2.354	3.123	13.1	20.7
301187	2008 <i>YR</i> ₁₄₇	12 29.1 174°01	2°1/28.9	18			13618	1995 <i>BF</i> ₂	12 29.1 266°63	3°5/28.7	18		
11 27	7 3.25	+29 36.2	2.123	2.952	12.3	21.2	11 27	6 59.96	+33 34.6	2.274	3.103	11.6	17.9
12 7	6 55.94	+29 44.6	2.049	2.955	9.0	21.0	12 7	6 53.65	+33 57.0	2.193	3.095	8.7	17.7
12 17	6 46.35	+29 48.2	2.000	2.957	5.4	20.8	12 17	6 45.12	+34 13.1	2.137	3.088	5.7	17.5
12 27	6 35.40	+29 44.2	1.980	2.959	2.3	20.6	12 27	6 35.22	+34 19.1	2.109	3.080	3.6	17.3
1 6	6 24.26	+29 31.0	1.991	2.960	4.0	20.7	1 6	6 25.02	+34 13.0	2.112	3.072	4.7	17.4
1 16	6 14.10	+29 9.4	2.032	2.961	7.6	20.9	1 16	6 15.67	+33 54.8	2.143	3.064	7.7	17.5
1 26	6 5.96	+28 41.8	2.100	2.961	11.0	21.2	1 26	6 8.18	+33 27.1	2.201	3.056	10.8	17.7
2 5	6 0.46	+28 11.1	2.191	2.960	13.9	21.4	2 5	6 3.20	+32 53.1	2.282	3.049	13.5	17.9
383537	2007 <i>DK</i> ₅₉	12 29.1 331°66	0°9/29.1	18			411755	2012 <i>BD</i> ₁₀₉	12 29.1 318°95	1°1/29.4	17		
11 27	7 1.33	+25 8.7	1.366	2.221	16.2	20.6	11 27	6 57.92	+18 56.3	1.928	2.766	13.0	21.5
12 7	6 55.51	+25 12.6	1.296	2.216	11.9	20.3	12 7	6 52.24	+19 10.5	1.853	2.764	9.5	21.3
12 17	6 46.51	+25 15.9	1.247	2.212	6.8	20.0	12 17	6 44.36	+19 30.2	1.802	2.763	5.5	21.0
12 27	6 35.47	+25 15.5	1.225	2.207	1.5	19.7	12 27	6 35.09	+19 53.6	1.780	2.762	1.6	20.8
1 6	6 24.00	+25 9.3	1.229	2.203	4.6	19.9	1 6	6 25.52	+20 18.8	1.787	2.760	3.6	20.9
1 16	6 13.83	+24 57.4	1.259	2.200	9.9	20.2	1 16	6 16.77	+20 43.9	1.822	2.759	7.7	21.2
1 26	6 6.41	+24 41.8	1.313	2.197	14.7	20.4	1 26	6 9.85	+21 8.2	1.884	2.758	11.4	21.4
2 5	6 2.56	+24 25.3	1.387	2.194	18.7	20.7	2 5	6 5.43	+21 31.2	1.969	2.757	14.6	21.6
110783	2001 <i>UO</i> ₃₂	12 29.1 61°13	0°7/29.3	18			49175	1998 <i>SG</i> ₆₅	12 29.1 85°52	1°4/29.3	18		
11 27	6 58.53	+19 37.2	1.859	2.698	13.3	19.4	11 27	7 1.99	+19 8.4	1.472	2.318	15.8	18.4
12 7	6 52.70	+20 1.7	1.789	2.702	9.7	19.2	12 7	6 55.53	+19 16.8	1.414	2.329	11.6	18.2
12 17	6 44.61	+20 31.6	1.744	2.706	5.6	18.9	12 17	6 46.31	+19 31.5	1.379	2.340	6.7	17.9
12 27	6 35.10	+21 4.4	1.727	2.710	1.3	18.6	12 27	6 35.44	+19 50.1	1.370	2.351	1.9	17.7
1 6	6 25.32	+21 37.6	1.739	2.713	3.6	18.8	1 6	6 24.37	+20 10.4	1.389	2.363	4.3	17.9
1 16	6 16.42	+22 9.1	1.780	2.717	7.8	19.1	1 16	6 14.57	+20 30.7	1.435	2.374	9.1	18.2
1 26	6 9.46	+22 37.8	1.847	2.721	11.6	19.3	1 26	6 7.28	+20 50.3	1.506	2.385	13.5	18.5
2 5	6 5.10	+23 3.6	1.937	2.725	14.8	19.5	2 5	6 3.16	+21 9.0	1.598	2.396	17.0	18.7
7322	Laurentina	12 29.1 94°70	6°6/28.3	18			459382	2012 <i>JY</i> ₆₁	12 29.1 157°51	3°7/28.5	18		
11 27	7 3.57	+44 11.7	2.439	3.239	11.8	17.3	11 27	6 59.87	+33 49.2	2.443	3.269	11.0	21.4
12 7	6 56.27	+44 59.2	2.381	3.249	9.6	17.2	12 7	6 53.44	+34 29.4	2.371	3.271	8.2	21.2
12 17	6 46.56	+45 33.5	2.347	3.260	7.6	17.1	12 17	6 44.95	+35 3.8	2.326	3.274	5.5	21.1
12 27	6 35.44	+45 49.5	2.341	3.270	6.6	17.0	12 27	6 35.19	+35 28.5	2.309	3.276	3.7	20.9
1 6	6 24.16	+45 44.8	2.362	3.281	7.2	17.1	1 6	6 25.18	+35 41.1	2.323	3.279	4.8	21.0
1 16	6 13.99	+45 20.4	2.411	3.291	9.0	17.2	1 16	6 15.97	+35 41.0	2.365	3.281	7.4	21.2
1 26	6 6.00	+44 40.0	2.486	3.301	11.1	17.4	1 26	6 8.51	+35 30.2	2.435	3.283	10.2	21.4
2 5	6 0.80	+43 48.9	2.583	3.311	13.1	17.5	2 5	6 3.41	+35 11.5	2.528	3.284	12.6	21.5
108558	2001 <i>LL</i> ₁₅	12 29.1 237°14	0°0/28.9	18			411852	2012 <i>DC</i> ₇₅	12 29.1 322°16	0°7/29.2	17		
11 27	6 57.21	+21 5.1	2.337	3.169	11.2	19.7	11 27	6 58.07	+20 51.6	1.986	2.824	12.6	21.7
12 7	6 51.47	+21 41.9	2.256	3.166	8.1	19.5	12 7	6 52.27	+20 52.9	1.911	2.823	9.2	21.5
12 17	6 43.83	+22 22.7	2.202	3.163	4.6	19.3	12 17	6 44.34	+20 57.1	1.861	2.822	5.3	21.2
12 27	6 34.97	+23 4.8	2.176	3.159	0.8	19.0	12 27	6 35.09	+21 2.9	1.839	2.821	1.2	21.0
1 6	6 25.79	+23 45.5	2.182	3.156	3.0	19.2	1 6	6 25.58	+21 8.9	1.847	2.820	3.4	21.1
1 16	6 17.23	+24 22.9	2.218	3.152	6.7	19.4	1 16	6 16.91	+21 14.6	1.883	2.820	7.5	21.4
1 26	6 10.21	+24 56.0	2.281	3.148	10.0	19.6	1 26	6 10.06	+21 19.9	1.946	2.819	11.2	21.6
2 5	6 5.32	+25 24.8	2.368	3.144	12.8	19.8	2 5	6 5.66	+21 25.1	2.032	2.818	14.3	21.8
91971	1999 <i>VO</i> ₉₂	12 29.1 160°62	0°9/29.0	18			301551	2009 <i>GD</i> ₂	12 29.1 297°62	6°5/27.7	17 R		
11 27	6 58.63	+25 9.9	2.297	3.131	11.3	19.3	11 27	7 2.84	+36 31.5	1.716	2.552	14.4	20.3
12 7	6 52.46	+25 26.7	2.223	3.134	8.2	19.1	12 7	6 56.73	+37 49.4	1.637	2.537	11.3	20.1
12 17	6 44.35	+25 43.2	2.175	3.136	4.7	18.9	12 17	6 47.36	+39 0.5	1.581	2.523	8.2	19.9
12 27	6 35.06	+25 57.0	2.157	3.139	1.2	18.6	12 27	6 35.69	+39 56.3	1.551	2.509	6.5	19.7
1 6	6 25.55	+26 6.4	2.168	3.141	3.2	18.8	1 6	6 23.25	+40 30.3	1.549	2.495	7.9	19.8
1 16	6 16.81	+26 11.0	2.210	3.143	6.8	19.0	1 16	6 11.82	+40 40.7	1.573	2.481	11.0	19.9
1 26	6 9.74	+26 11.2	2.279	3.144	10.0	19.2	1 26	6 2.99	+40 30.3	1.621	2.467	14.5	20.1
2 5	6 4.92	+26 8.4	2.371	3.146	12.8	19.4	2 5	5 57.76	+40 5.0	1.690	2.454	17.6	20.3
340150	2005 <i>YB</i> ₇₁	12 29.1 177°08	0°3/29.2	18			438493	2007 <i>HN</i> ₉₆	12 29.1 153°32	1°3/29.3	18		
11 27	7 1.80	+22 18.2	1.833	2.670	13.6	21.4	11 27	7 1.52	+18 59.4	1.991	2.821	12.9	22.7
12 7	6 55.10	+22 18.8	1.760	2.671	9.9	21.2	12 7	6 54.67	+19 5.1	1.921	2.829	9.4	22.5
12 17	6 45.98	+22 21.0	1.711	2.673	5.6	21.0	12 17	6 45.65	+19 15.3	1.877	2.836	5.5	22.3
12 27	6 35.36	+22 22.8	1.691	2.673	1.1	20.6	12 27	6 35.32	+19 28.3	1.861	2.843	1.6	22.0
1 6	6 24.47	+22 23.0	1.700	2.673	3.7	20.8	1 6	6 24.78	+19 42.8	1.876	2.849	3.6	22.2
1 16	6 14.58	+22 21.2	1.738	2.673	8.1	21.1	1 16	6 15.16	+19 57.6	1.920	2.854	7.6	22.4
1 26	6 6.79	+22 18.2	1.802	2.673	12.0	21.3	1 26	6 7.45	+20 12.3	1.992	2.859	11.2	22.7
2 5	6 1.77	+22 15.0	1.888	2.672	15.3	21.6	2 5	6 2.25	+20 26.8	2.086	2.864	14.3	22.9
25038	Matebezdok	12 29.1 163°52	1°3/29.3	18			265060	2003 <i>SV</i> ₃₈	12 29.1 48°21	5°9/28.9	17		
11 27	7 2.94	+19 46.0	1.830	2.									

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12 29.2

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
186511	2002 VE ₁₂		12 29.1	56°12	1°0/29.0	18	60368	2000 AQ ₁₁₉		12 29.2	302°65	4°3/29.9	18
11 27	7 4.22	+23 32.1	1.206	2.063	17.8	19.2	11 27	6 55.37	+10 7.8	2.131	2.949	12.6	19.2
12 7	6 57.44	+24 6.0	1.166	2.088	12.8	19.0	12 7	6 50.21	+9 56.6	2.049	2.942	9.7	19.0
12 17	6 47.43	+24 41.8	1.148	2.113	7.2	18.8	12 17	6 43.16	+9 56.2	1.991	2.934	6.7	18.8
12 27	6 35.62	+25 14.4	1.156	2.138	1.5	18.5	12 27	6 34.91	+10 7.4	1.961	2.927	4.5	18.7
1 6	6 23.87	+25 39.8	1.190	2.164	4.7	18.8	1 6	6 26.37	+10 29.7	1.960	2.919	5.2	18.7
1 16	6 13.90	+25 56.8	1.250	2.190	10.0	19.1	1 16	6 18.48	+11 1.7	1.988	2.912	8.0	18.9
1 26	6 7.02	+26 6.6	1.333	2.216	14.6	19.5	1 26	6 12.11	+11 41.0	2.041	2.905	11.1	19.1
2 5	6 3.81	+26 11.5	1.436	2.242	18.2	19.8	2 5	6 7.87	+12 25.1	2.118	2.898	14.0	19.2
450689	2006 WO		12 29.1	84°64	3°7/28.5	16	427171	2014 UX ₁₉₉		12 29.2	320°23	7°5/29.0	18
11 27	7 4.00	+31 17.8	1.934	2.766	13.2	21.9	11 27	6 55.23	+5 9.9	1.986	2.793	13.9	20.1
12 7	6 56.60	+32 14.6	1.886	2.792	9.7	21.7	12 7	6 50.23	+3 55.9	1.901	2.776	11.3	19.9
12 17	6 46.76	+33 5.9	1.864	2.817	6.1	21.6	12 17	6 43.23	+2 53.7	1.841	2.761	8.9	19.7
12 27	6 35.51	+33 46.4	1.870	2.842	3.7	21.5	12 27	6 34.93	+2 7.5	1.806	2.745	7.5	19.6
1 6	6 24.18	+34 12.7	1.906	2.867	5.1	21.6	1 6	6 26.29	+1 40.1	1.799	2.730	8.1	19.6
1 16	6 14.04	+34 24.3	1.970	2.891	8.3	21.9	1 16	6 18.31	+1 32.4	1.818	2.716	10.4	19.7
1 26	6 6.18	+34 23.6	2.061	2.914	11.5	22.1	1 26	6 11.92	+1 42.9	1.862	2.702	13.1	19.9
2 5	6 1.18	+34 14.2	2.174	2.938	14.2	22.3	2 5	6 7.77	+2 8.1	1.926	2.688	15.8	20.0
166334	2002 JN ₁₀₇		12 29.1	188°26	6°6/30.2	18	33374	1999 CE ₂		12 29.2	304°12	1°3/29.0	18
11 27	6 58.44	+2 45.5	2.304	3.087	12.9	21.7	11 27	7 0.88	+25 36.4	1.446	2.299	15.6	18.9
12 7	6 52.20	+2 13.3	2.227	3.086	10.5	21.6	12 7	6 55.25	+25 48.6	1.366	2.286	11.5	18.6
12 17	6 44.19	+1 55.4	2.173	3.085	8.2	21.4	12 17	6 46.47	+26 0.4	1.308	2.272	6.7	18.3
12 27	6 35.07	+1 54.1	2.147	3.083	6.7	21.3	12 27	6 35.56	+26 8.2	1.276	2.259	1.7	17.9
1 6	6 25.71	+2 9.7	2.150	3.080	7.1	21.3	1 6	6 24.06	+26 9.4	1.271	2.245	4.6	18.1
1 16	6 17.00	+2 41.2	2.181	3.077	9.0	21.4	1 16	6 13.66	+26 3.2	1.293	2.232	9.9	18.3
1 26	6 9.77	+3 25.6	2.239	3.073	11.5	21.6	1 26	6 5.87	+25 51.5	1.339	2.220	14.6	18.6
2 5	6 4.58	+4 19.2	2.320	3.068	13.8	21.8	2 5	6 1.57	+25 37.1	1.404	2.208	18.7	18.8
191367	2003 QD ₁₁₃		12 29.1	17°92	12°1/4.2	18	517252	2014 DD ₆₇		12 29.2	16°33	3°4/28.5	18
11 27	6 55.28	-9 51.2	1.496	2.254	19.8	18.7	11 27	7 1.18	+27 43.0	1.329	2.186	16.5	20.8
12 7	6 50.52	-9 39.2	1.443	2.267	17.2	18.6	12 7	6 55.60	+28 44.5	1.268	2.188	12.1	20.5
12 17	6 43.41	-8 51.2	1.409	2.281	14.6	18.5	12 17	6 46.68	+29 45.9	1.230	2.191	7.3	20.3
12 27	6 34.93	-7 24.3	1.396	2.296	12.7	18.4	12 27	6 35.59	+30 39.7	1.217	2.195	3.5	20.1
1 6	6 26.31	-5 21.8	1.407	2.313	12.1	18.4	1 6	6 24.05	+31 19.9	1.230	2.199	5.8	20.2
1 16	6 18.75	-2 51.4	1.443	2.331	13.2	18.5	1 16	6 13.87	+31 44.3	1.269	2.204	10.5	20.5
1 26	6 13.29	-0 4.8	1.504	2.351	15.3	18.7	1 26	6 6.59	+31 54.3	1.332	2.209	15.0	20.8
2 5	6 10.55	+2 46.4	1.587	2.371	17.7	18.9	2 5	6 3.03	+31 53.8	1.414	2.215	18.7	21.0
279635	2011 EN ₆₉		12 29.1	330°63	3°5/29.8	18	59410	1999 FH ₅₀		12 29.2	139°57	3°3/28.8	18
11 27	6 59.65	+13 59.3	1.392	2.236	16.7	20.6	11 27	7 4.92	+31 24.2	1.834	2.668	13.7	19.5
12 7	6 54.13	+14 6.9	1.322	2.233	12.5	20.3	12 7	6 57.47	+31 50.4	1.770	2.676	10.2	19.3
12 17	6 45.71	+14 27.7	1.273	2.230	7.9	20.0	12 17	6 47.37	+32 10.6	1.730	2.685	6.3	19.1
12 27	6 35.38	+15 0.9	1.250	2.227	3.9	19.8	12 27	6 35.68	+32 20.1	1.718	2.693	3.4	19.0
1 6	6 24.59	+15 43.8	1.254	2.225	5.4	19.9	1 6	6 23.80	+32 16.5	1.735	2.700	5.0	19.1
1 16	6 14.88	+16 33.0	1.284	2.223	10.0	20.1	1 16	6 13.14	+32 0.4	1.781	2.707	8.6	19.3
1 26	6 7.62	+17 25.0	1.338	2.220	14.6	20.4	1 26	6 4.88	+31 34.8	1.853	2.714	12.2	19.5
2 5	6 3.62	+18 16.9	1.413	2.219	18.5	20.6	2 5	6 59.68	+31 4.0	1.947	2.720	15.3	19.8
65339	2002 NJ ₂		12 29.1	120°06	0°6/29.1	17	248249	2005 GX ₁₉		12 29.2	188°31	3°6/29.6	18
11 27	6 58.70	+25 41.7	2.425	3.257	10.8	19.4	11 27	6 58.59	+12 34.5	2.236	3.053	12.2	21.0
12 7	6 52.34	+25 35.9	2.356	3.265	7.8	19.2	12 7	6 52.40	+12 15.4	2.158	3.052	9.2	20.8
12 17	6 44.22	+25 28.5	2.313	3.274	4.4	19.0	12 17	6 44.35	+12 4.1	2.105	3.051	6.1	20.6
12 27	6 35.07	+25 17.9	2.300	3.282	1.0	18.7	12 27	6 35.15	+12 1.3	2.080	3.050	3.7	20.5
1 6	6 25.83	+25 3.8	2.317	3.290	2.9	18.9	1 6	6 25.71	+12 6.9	2.086	3.048	4.6	20.5
1 16	6 17.39	+24 46.5	2.364	3.298	6.4	19.1	1 16	6 16.99	+12 20.0	2.121	3.045	7.6	20.7
1 26	6 10.57	+24 27.2	2.440	3.305	9.5	19.4	1 26	6 9.82	+12 39.5	2.183	3.042	10.7	20.9
2 5	6 5.87	+24 7.4	2.539	3.312	12.1	19.6	2 5	6 4.80	+13 3.7	2.268	3.039	13.5	21.1
84885	2003 FT ₃₂		12 29.2	178°05	0°4/29.2	18	123152	2000 TQ ₃₇		12 29.2	176°17	0°3/29.2	18
11 27	7 1.84	+21 18.2	2.050	2.881	12.6	21.0	11 27	7 2.03	+21 7.4	2.318	3.142	11.5	21.0
12 7	6 54.96	+21 29.9	1.975	2.883	9.2	20.8	12 7	6 54.90	+21 26.1	2.240	3.146	8.4	20.8
12 17	6 45.86	+21 44.2	1.924	2.885	5.2	20.6	12 17	6 45.78	+21 47.4	2.189	3.148	4.8	20.6
12 27	6 35.39	+21 59.2	1.903	2.885	1.0	20.3	12 27	6 35.42	+22 9.1	2.168	3.150	0.9	20.3
1 6	6 24.64	+22 12.9	1.912	2.886	3.4	20.4	1 6	6 24.80	+22 29.5	2.178	3.151	3.1	20.5
1 16	6 14.76	+22 24.5	1.951	2.885	7.5	20.7	1 16	6 14.93	+22 47.2	2.219	3.151	6.8	20.7
1 26	6 6.75	+22 33.9	2.018	2.884	11.1	20.9	1 26	6 6.74	+23 2.3	2.288	3.150	10.2	20.9
2 5	6 1.27	+22 41.9	2.107	2.882	14.2	21.1	2 5	6 0.83	+23 15.1	2.382	3.148	13.0	21.1
60641	2000 FP ₃₅		12 29.2	152°16	1°1/29.4	18	932	Hooveria		12 29.2	26°44	6°3/28.5	18
11 27	6 59.23	+18 52.1	2.170	3.000	12.0	19.4	11 27	7 3.94	+35 17.5	1.366	2.214	16.7	13.3
12 7	6 52.92	+19 3.6	2.099	3.006	8.8	19.2	12 7	6 57.70	+36 14.0	1.308	2.218	12.8	13.1
12 17	6 44.64	+19 19.5	2.053	3.012	5.1	19.0	12 17	6 47.89	+37 0.7	1.273	2.223	8.8	12.9
12 27	6 35.17	+19 38.4	2.036	3.017	1.5	18.7	12 27	6 35.82	+37 29.1	1.262	2.228	6.3	12.7
1 6	6 25.48	+19 58.7	2.049	3.022	3.3	18.9	1 6	6 23.41	+37 34.4	1.277	2.233	7.7	12.8
1 16	6 16.59	+20 19.0	2.092	3.026	7.0	19.1	1 16	6 12.60	+37 17.2	1.317	2.239	11.4	13.1
1 26	6 9.38	+20 38.7	2.163	3.030	10.4	19.3	1 26	6 4.99	+36 42.6	1.380	2.246	15.3	13.3
2 5	6 4.45	+20 57.5	2.257	3.034	13.3	19.6	2 5	6 1.33	+35 57.9	1.463	2.252	18.7	13.5
224032	2005 LT ₄₆		12 29.2	104°67	3°1/29.6	18	376043	2010 CP ₁₄₇		12 29.2	299°98	5°7/28.3	18
11 27	7 2.77	+15 13.7	1.595	2.428	15.4	20.8	11 27	7 1.17	+40 23.1	2.356	3.170	11.7	

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
177929	2005 <i>TE</i> ₂		12 29.2 242°11	2°0/28.9	18		312849	2011 <i>UY</i> ₈₁		12 29.2 359°42	0°0/29.0	18	
11 27	7 0.36	+28 34.2	2.119	2.954	12.1	20.7	11 27	6 59.47	+22 14.9	1.719	2.564	14.0	20.7
12 7	6 54.03	+28 51.9	2.037	2.946	8.9	20.5	12 7	6 53.63	+22 30.1	1.648	2.563	10.2	20.5
12 17	6 45.42	+29 6.7	1.979	2.938	5.3	20.3	12 17	6 45.29	+22 48.1	1.601	2.563	5.8	20.2
12 27	6 35.37	+29 15.4	1.951	2.930	2.2	20.0	12 27	6 35.38	+23 6.4	1.580	2.563	1.0	19.9
1 6	6 24.98	+29 16.1	1.952	2.921	3.9	20.1	1 6	6 25.14	+23 22.8	1.589	2.563	3.8	20.1
1 16	6 15.42	+29 8.3	1.982	2.912	7.6	20.4	1 16	6 15.88	+23 35.9	1.625	2.563	8.3	20.4
1 26	6 7.73	+28 53.8	2.039	2.903	11.1	20.6	1 26	6 8.76	+23 45.8	1.687	2.564	12.4	20.6
2 5	6 2.61	+28 35.0	2.119	2.894	14.1	20.7	2 5	6 4.48	+23 53.4	1.771	2.564	15.8	20.8
70598	1999 <i>TP</i> ₁₈₅		12 29.2 133°55	5°0/28.9	18		460847	2014 <i>WZ</i> ₁₀₀		12 29.2 313°43	3°2/28.2	18	
11 27	7 7.82	+38 25.7	2.197	3.008	12.5	20.0	11 27	6 58.81	+28 31.4	2.017	2.857	12.4	20.7
12 7	6 59.25	+38 49.5	2.137	3.024	9.7	19.9	12 7	6 53.26	+29 45.1	1.930	2.842	9.2	20.5
12 17	6 48.23	+39 1.9	2.102	3.039	6.8	19.7	12 17	6 45.21	+30 59.8	1.869	2.826	5.7	20.3
12 27	6 35.84	+38 58.3	2.095	3.053	5.1	19.7	12 27	6 35.40	+32 9.8	1.836	2.811	3.2	20.1
1 6	6 23.44	+38 36.9	2.119	3.067	5.9	19.7	1 6	6 24.96	+33 9.8	1.832	2.796	4.9	20.2
1 16	6 12.32	+37 59.5	2.172	3.080	8.4	19.9	1 16	6 15.17	+33 56.4	1.858	2.781	8.5	20.4
1 26	6 3.54	+37 10.4	2.252	3.092	11.2	20.1	1 26	6 7.24	+34 29.5	1.909	2.767	12.1	20.5
2 5	5 57.67	+36 15.0	2.355	3.103	13.6	20.3	2 5	6 2.04	+34 50.8	1.983	2.753	15.1	20.7
303518	2005 <i>ED</i> ₂₀₅		12 29.2 296°84	2°9/28.7	17		421692	2014 <i>PE</i> ₂		12 29.2 76°01	0°8/29.3	18	
11 27	7 0.97	+28 58.2	1.714	2.558	14.0	20.9	11 27	6 58.94	+20 16.8	1.893	2.732	13.1	21.2
12 7	6 54.95	+29 34.8	1.638	2.551	10.3	20.7	12 7	6 52.94	+20 26.9	1.829	2.741	9.5	21.0
12 17	6 46.15	+30 9.0	1.585	2.544	6.3	20.4	12 17	6 44.76	+20 40.8	1.790	2.751	5.5	20.8
12 27	6 35.52	+30 35.8	1.560	2.538	3.0	20.2	12 27	6 35.28	+20 56.7	1.779	2.761	1.3	20.5
1 6	6 24.43	+30 51.7	1.563	2.531	4.9	20.3	1 6	6 25.62	+21 12.9	1.797	2.770	3.5	20.7
1 16	6 14.36	+30 55.5	1.593	2.525	9.1	20.5	1 16	6 16.91	+21 28.3	1.843	2.780	7.6	21.0
1 26	6 6.61	+30 49.1	1.649	2.518	13.0	20.8	1 26	6 10.13	+21 42.5	1.917	2.790	11.3	21.2
2 5	6 1.97	+30 35.7	1.726	2.512	16.4	21.0	2 5	6 5.88	+21 55.5	2.012	2.800	14.4	21.5
218830	2006 <i>TD</i> ₈₅		12 29.2 190°79	4°1/28.7	18		398425	2011 <i>UD</i> ₈		12 29.2 170°80	4°0/29.5	18	
11 27	7 5.85	+31 46.6	1.590	2.429	15.2	20.8	11 27	6 59.36	+12 40.0	2.084	2.903	12.8	21.7
12 7	6 58.67	+32 24.2	1.519	2.429	11.3	20.5	12 7	6 53.03	+12 6.2	2.010	2.906	9.7	21.5
12 17	6 48.31	+32 55.7	1.473	2.428	7.2	20.3	12 17	6 44.75	+11 40.2	1.962	2.908	6.5	21.3
12 27	6 35.91	+33 15.0	1.453	2.427	4.2	20.1	12 27	6 35.28	+11 23.1	1.941	2.910	4.1	21.1
1 6	6 23.10	+33 18.3	1.461	2.425	5.9	20.2	1 6	6 25.61	+11 15.5	1.951	2.911	5.0	21.2
1 16	6 11.60	+33 5.4	1.496	2.423	9.9	20.4	1 16	6 16.74	+11 17.0	1.989	2.912	8.1	21.4
1 26	6 2.85	+32 40.0	1.557	2.421	14.0	20.7	1 26	6 9.58	+11 26.8	2.054	2.913	11.3	21.6
2 5	5 57.65	+32 7.5	1.638	2.418	17.4	20.9	2 5	6 4.69	+11 43.0	2.142	2.913	14.1	21.8
230594	2003 <i>EF</i> ₃₃		12 29.2 274°98	1°1/29.1	18		132568	2002 <i>JS</i> ₁₀₂		12 29.2 209°49	1°4/29.4	18	
11 27	7 1.79	+25 9.1	1.573	2.420	14.9	21.1	11 27	7 0.23	+18 46.2	2.070	2.900	12.5	21.1
12 7	6 55.68	+25 22.6	1.493	2.409	10.9	20.9	12 7	6 53.84	+18 48.1	1.987	2.895	9.2	20.9
12 17	6 46.63	+25 36.2	1.436	2.399	6.3	20.6	12 17	6 45.31	+18 54.3	1.930	2.889	5.4	20.7
12 27	6 35.62	+25 46.4	1.406	2.388	1.5	20.2	12 27	6 35.40	+19 3.9	1.902	2.883	1.7	20.4
1 6	6 24.10	+25 50.7	1.404	2.378	4.3	20.4	1 6	6 25.16	+19 15.5	1.904	2.876	3.6	20.5
1 16	6 13.63	+25 48.3	1.430	2.367	9.3	20.7	1 16	6 15.68	+19 28.1	1.935	2.869	7.5	20.8
1 26	6 5.60	+25 40.8	1.480	2.357	13.8	20.9	1 26	6 7.97	+19 41.4	1.994	2.862	11.2	21.0
2 5	6 0.85	+25 30.4	1.551	2.346	17.6	21.1	2 5	6 2.69	+19 55.1	2.076	2.854	14.3	21.2
494499	2016 <i>WZ</i> ₄₉		12 29.2 62°02	0°7/29.1	16		412759	2014 <i>OJ</i> ₃₈₀		12 29.2 142°92	0°5/29.2	18	
11 27	7 2.43	+23 10.3	1.382	2.234	16.3	21.5	11 27	6 59.96	+22 4.0	2.148	2.981	12.0	22.0
12 7	6 56.07	+23 42.1	1.330	2.249	11.8	21.3	12 7	6 53.46	+21 56.5	2.078	2.987	8.7	21.8
12 17	6 46.73	+24 16.7	1.299	2.263	6.7	21.0	12 17	6 44.98	+21 50.2	2.033	2.994	5.0	21.5
12 27	6 35.61	+24 49.5	1.295	2.278	1.4	20.7	12 27	6 35.32	+21 43.7	2.017	2.999	1.0	21.3
1 6	6 24.31	+25 16.9	1.319	2.293	4.4	21.0	1 6	6 25.51	+21 36.6	2.032	3.005	3.2	21.4
1 16	6 14.44	+25 37.2	1.369	2.308	9.4	21.3	1 16	6 16.56	+21 28.7	2.076	3.010	7.0	21.7
1 26	6 7.29	+25 50.8	1.443	2.323	13.8	21.6	1 26	6 9.39	+21 20.8	2.147	3.015	10.5	21.9
2 5	6 3.53	+25 59.6	1.538	2.339	17.5	21.9	2 5	6 4.56	+21 13.7	2.242	3.020	13.4	22.1
517316	2014 <i>JL</i> ₇		12 29.2 153°65	0°7/29.0	18		376585	2013 <i>PX</i> ₂₃		12 29.2 85°91	3°4/28.9	17	
11 27	7 1.03	+23 46.4	2.066	2.899	12.4	22.1	11 27	7 0.30	+34 8.8	2.397	3.222	11.2	21.1
12 7	6 54.40	+24 14.1	1.995	2.905	9.0	21.9	12 7	6 53.66	+34 27.1	2.335	3.236	8.3	21.0
12 17	6 45.58	+24 43.1	1.950	2.911	5.1	21.7	12 17	6 45.05	+34 38.3	2.300	3.249	5.4	20.8
12 27	6 35.41	+25 10.4	1.934	2.916	1.1	21.4	12 27	6 35.33	+34 39.3	2.293	3.262	3.5	20.7
1 6	6 24.98	+25 33.3	1.948	2.921	3.4	21.6	1 6	6 25.53	+34 28.8	2.316	3.276	4.5	20.8
1 16	6 15.42	+25 50.8	1.992	2.925	7.4	21.9	1 16	6 16.68	+34 7.5	2.369	3.289	7.2	21.0
1 26	6 7.75	+26 2.9	2.063	2.929	10.9	22.1	1 26	6 9.65	+33 37.8	2.448	3.302	9.9	21.2
2 5	6 2.59	+26 11.0	2.157	2.932	13.9	22.3	2 5	6 4.96	+33 2.9	2.552	3.315	12.3	21.4
268644	2006 <i>DA</i> ₁₃₂		12 29.2 45°34	1°0/29.0	17		485723	2012 <i>BD</i> ₁₅		12 29.2 18°85	6°8/30.0	17	
11 27	6 58.18	+24 42.8	1.968	2.809	12.6	20.4	11 27	7 4.97	+40 17.1	1.237	2.083	18.2	20.3
12 7	6 52.41	+25 8.1	1.903	2.817	9.1	20.2	12 7	6 58.35	+40 1.9	1.189	2.094	14.2	20.1
12 17	6 44.46	+25 33.9	1.862	2.824	5.2	19.9	12 17	6 48.06	+39 25.9	1.161	2.107	9.9	19.9
12 27	6 35.20	+25 57.3	1.850	2.832	1.3	19.7	12 27	6 35.85	+38 24.3	1.157	2.122	7.0	19.8
1 6	6 25.73	+26 15.9	1.867	2.840	3.5	19.9	1 6	6 23.91	+36 58.2	1.178	2.137	7.8	19.9
1 16	6 17.18	+26 28.8	1.913	2.848	7.5	20.1	1 16	6 14.17	+35 14.8	1.225	2.155	11.4	20.1
1 26	6 10.52	+26 36.4	1.985	2.857	11.0	20.4	1 26	6 7.95	+33 24.2	1.295	2.173	15.3	20.4
2 5	6 6.38	+26 39.8	2.080	2.865	14.0	20.6	2 5	6 5.68	+31 35.6	1.386	2.193	18.7	20.7
404461	2013 <i>GR</i> ₁₂₀		12 29.2 312°77	0°8/29.1	18		338320	2002 <i>VN</i> ₈₆		12 29.2 45°31	13°5/27.6	17	
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12 29.2

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
34004 Gregorini		12 29.2	99°13	0°8/29.1	18		168202 2006 <i>JP</i> ₂₆		12 29.2	181°79	1°4/29.0	18	
11 27	7 4.61	+24 52.5	1.743	2.580	14.2	18.3	11 27	7 2.47	+27 11.1	2.147	2.978	12.1	21.0
12 7	6 57.06	+25 4.8	1.691	2.603	10.2	18.1	12 7	6 55.43	+27 20.9	2.071	2.979	8.8	20.7
12 17	6 47.06	+25 16.2	1.664	2.625	5.8	17.9	12 17	6 46.18	+27 28.2	2.020	2.980	5.1	20.5
12 27	6 35.70	+25 24.0	1.665	2.647	1.3	17.6	12 27	6 35.58	+27 30.4	1.999	2.979	1.6	20.3
1 6	6 24.32	+25 26.2	1.695	2.668	3.8	17.8	1 6	6 24.74	+27 25.9	2.007	2.979	3.6	20.4
1 16	6 14.24	+25 23.0	1.754	2.689	8.1	18.1	1 16	6 14.80	+27 14.7	2.046	2.977	7.4	20.7
1 26	6 6.51	+25 15.9	1.840	2.709	11.9	18.4	1 26	6 6.77	+26 58.5	2.112	2.976	10.8	20.9
2 5	6 1.70	+25 6.9	1.948	2.729	15.0	18.7	2 5	6 1.27	+26 39.7	2.202	2.973	13.8	21.1
459737 2013 <i>QT</i> ₇		12 29.2	85°44	0°3/29.2	17		443064 2013 <i>FJ</i> ₂₅		12 29.2	334°07	7°1/30.7	17	
11 27	6 58.14	+24 42.4	2.296	3.130	11.3	21.4	11 27	6 56.06	+5 8.4	1.584	2.403	16.2	20.7
12 7	6 52.08	+24 34.7	2.225	3.136	8.2	21.2	12 7	6 51.29	+4 54.7	1.508	2.394	13.0	20.5
12 17	6 44.17	+24 26.1	2.181	3.142	4.6	21.0	12 17	6 44.07	+5 0.6	1.454	2.386	9.7	20.2
12 27	6 35.18	+24 15.3	2.165	3.148	0.9	20.7	12 27	6 35.24	+5 28.2	1.424	2.378	7.4	20.1
1 6	6 26.07	+24 1.7	2.180	3.154	3.0	20.9	1 6	6 25.98	+6 17.0	1.420	2.371	7.8	20.1
1 16	6 17.77	+23 45.8	2.225	3.160	6.6	21.1	1 16	6 17.54	+7 23.6	1.442	2.364	10.6	20.2
1 26	6 11.13	+23 28.5	2.297	3.165	9.9	21.3	1 26	6 11.10	+8 42.7	1.489	2.359	14.2	20.4
2 5	6 6.67	+23 11.3	2.392	3.171	12.6	21.5	2 5	6 7.41	+10 8.2	1.557	2.353	17.5	20.6
506161 2016 <i>ET</i> ₂₀₃		12 29.2	71°82	18°1/25.9	18		98697 2000 <i>XQ</i> ₂₇		12 29.2	69°04	4°8/29.3	18	
11 27	7 21.80	+54 27.6	1.120	1.920	22.7	20.7	11 27	7 6.76	+36 5.7	1.597	2.431	15.4	19.2
12 7	7 14.13	+57 23.1	1.087	1.929	20.3	20.6	12 7	6 59.12	+36 8.7	1.536	2.440	11.7	19.0
12 17	6 58.94	+59 46.0	1.071	1.938	18.6	20.5	12 17	6 48.42	+35 59.1	1.499	2.449	7.7	18.8
12 27	6 38.05	+61 14.5	1.075	1.947	18.1	20.5	12 27	6 35.99	+35 32.1	1.488	2.458	5.0	18.6
1 6	6 15.81	+61 37.1	1.098	1.956	18.9	20.6	1 6	6 23.55	+34 46.7	1.505	2.467	6.1	18.7
1 16	5 57.26	+60 58.2	1.139	1.965	20.6	20.8	1 16	6 12.73	+33 46.1	1.550	2.476	9.7	19.0
1 26	5 45.81	+59 34.5	1.197	1.974	22.7	20.9	1 26	6 4.80	+32 36.7	1.620	2.485	13.5	19.2
2 5	5 42.16	+57 45.4	1.268	1.983	24.7	21.1	2 5	6 0.37	+31 25.0	1.711	2.494	16.7	19.4
178954 2001 <i>QT</i> ₁₆₆		12 29.2	42°54	0°1/29.2	18		440200 2004 <i>HV</i> ₃₅		12 29.2	253°83	1°4/28.9	18	
11 27	6 59.63	+20 42.7	1.531	2.380	15.1	19.7	11 27	7 3.33	+24 50.0	1.750	2.589	14.0	21.8
12 7	6 53.85	+21 31.2	1.477	2.395	10.9	19.5	12 7	6 56.78	+25 25.8	1.659	2.571	10.3	21.5
12 17	6 45.44	+22 25.6	1.447	2.411	6.2	19.3	12 17	6 47.34	+26 3.7	1.591	2.553	6.0	21.2
12 27	6 35.43	+23 21.4	1.444	2.427	1.1	19.0	12 27	6 35.87	+26 39.5	1.552	2.533	1.7	20.9
1 6	6 25.21	+24 13.9	1.469	2.444	4.0	19.2	1 6	6 23.69	+27 9.0	1.542	2.514	4.3	21.0
1 16	6 16.18	+25 0.0	1.522	2.461	8.7	19.6	1 16	6 12.30	+27 30.0	1.560	2.494	9.0	21.3
1 26	6 9.51	+25 38.6	1.599	2.478	12.8	19.8	1 26	6 3.12	+27 42.9	1.604	2.473	13.4	21.5
2 5	6 5.85	+26 10.1	1.699	2.496	16.2	20.1	2 5	5 57.07	+27 49.6	1.670	2.452	17.1	21.7
73406 2002 <i>LT</i> ₂₅		12 29.2	151°59	3°5/29.4	18		200620 2001 <i>SO</i> ₇₉		12 29.2	219°19	1°7/28.9	18	
11 27	7 0.34	+13 57.7	2.147	2.965	12.5	19.4	11 27	6 58.42	+29 31.1	2.882	3.707	9.5	21.0
12 7	6 53.65	+13 23.3	2.077	2.973	9.4	19.2	12 7	6 52.14	+29 38.4	2.795	3.699	7.0	20.8
12 17	6 45.06	+12 55.4	2.032	2.981	6.1	19.0	12 17	6 44.20	+29 42.2	2.734	3.690	4.2	20.6
12 27	6 35.35	+12 35.0	2.017	2.988	3.6	18.8	12 27	6 35.24	+29 40.6	2.704	3.682	1.8	20.4
1 6	6 25.50	+12 22.5	2.031	2.994	4.6	18.9	1 6	6 26.07	+29 32.4	2.704	3.673	3.1	20.5
1 16	6 16.49	+12 17.9	2.075	3.000	7.7	19.1	1 16	6 17.51	+29 17.9	2.736	3.663	5.9	20.7
1 26	6 9.18	+12 20.6	2.147	3.005	10.9	19.3	1 26	6 10.32	+28 58.1	2.796	3.653	8.7	20.8
2 5	6 4.12	+12 29.3	2.241	3.010	13.7	19.5	2 5	6 5.03	+28 35.1	2.881	3.643	11.1	21.0
2628 Kopal		12 29.2	85°89	0°6/29.3	18		25497 Brauerman		12 29.2	17°22	1°5/29.3	18	
11 27	6 59.01	+21 2.0	2.063	2.898	12.3	17.2	11 27	6 59.04	+19 43.5	1.515	2.364	15.3	18.7
12 7	6 52.79	+21 5.1	2.002	2.913	8.9	17.0	12 7	6 53.49	+19 35.7	1.450	2.367	11.2	18.5
12 17	6 44.59	+21 10.7	1.967	2.928	5.1	16.8	12 17	6 45.29	+19 32.6	1.408	2.370	6.5	18.2
12 27	6 35.26	+21 17.4	1.960	2.942	1.1	16.6	12 27	6 35.45	+19 33.2	1.391	2.373	1.9	17.9
1 6	6 25.83	+21 23.9	1.983	2.957	3.2	16.8	1 6	6 25.35	+19 36.4	1.403	2.377	4.2	18.1
1 16	6 17.32	+21 29.6	2.036	2.971	7.1	17.0	1 16	6 16.39	+19 41.4	1.441	2.381	9.0	18.4
1 26	6 10.61	+21 34.7	2.115	2.986	10.5	17.3	1 26	6 9.75	+19 48.0	1.504	2.386	13.3	18.6
2 5	6 6.24	+21 39.4	2.218	3.000	13.4	17.5	2 5	6 6.13	+19 56.1	1.588	2.391	16.9	18.9
339232 2004 <i>UD</i>		12 29.2	109°26	11°2/28.0	17		141911 2002 <i>PQ</i> ₇₉		12 29.2	82°44	1°9/29.0	18	
11 27	7 9.29	+7 32.5	1.115	1.943	21.0	19.6	11 27	7 8.05	+27 8.0	1.448	2.290	16.2	19.8
12 7	7 1.16	+4 52.2	1.065	1.955	16.9	19.4	12 7	6 59.84	+27 27.9	1.406	2.320	11.7	19.6
12 17	6 49.65	+2 27.1	1.037	1.966	13.1	19.2	12 17	6 48.72	+27 44.5	1.388	2.349	6.7	19.4
12 27	6 36.18	+0 29.0	1.034	1.976	11.2	19.1	12 27	6 36.04	+27 53.4	1.397	2.378	2.2	19.2
1 6	6 22.67	-0 53.4	1.055	1.987	12.5	19.2	1 6	6 23.51	+27 52.4	1.434	2.406	4.6	19.4
1 16	6 10.97	-1 37.4	1.100	1.997	15.7	19.5	1 16	6 12.71	+27 42.3	1.499	2.434	9.2	19.7
1 26	6 2.48	-1 46.7	1.166	2.006	19.3	19.7	1 26	6 4.81	+27 26.2	1.590	2.461	13.3	20.0
2 5	5 57.85	-1 29.5	1.249	2.016	22.5	20.0	2 5	6 0.35	+27 7.5	1.701	2.488	16.6	20.3
310814 2002 <i>UQ</i> ₇₁		12 29.2	40°74	0°6/29.2	17		474791 2005 <i>QF</i> ₁₇₉		12 29.2	104°92	0°3/29.2	16	
11 27	7 0.67	+25 2.1	1.520	2.371	15.1	20.6	11 27	7 4.71	+22 56.4	1.657	2.495	14.7	22.5
12 7	6 54.57	+24 56.7	1.464	2.383	11.0	20.4	12 7	6 57.29	+23 17.3	1.603	2.516	10.6	22.3
12 17	6 45.80	+24 50.2	1.432	2.395	6.2	20.2	12 17	6 47.29	+23 39.8	1.574	2.535	6.0	22.1
12 27	6 35.49	+24 40.5	1.426	2.408	1.2	19.9	12 27	6 35.80	+24 0.6	1.572	2.555	1.1	21.8
1 6	6 25.09	+24 26.8	1.447	2.422	4.0	20.1	1 6	6 24.23	+24 17.2	1.600	2.574	3.8	22.0
1 16	6 16.03	+24 9.6	1.496	2.436	8.8	20.4	1 16	6 13.96	+24 28.6	1.656	2.592	8.4	22.3
1 26	6 9.43	+23 50.9	1.570	2.450	12.9	20.7	1 26	6 6.10	+24 35.6	1.738	2.609	12.4	22.6
2 5	6 5.91	+23 32.6	1.665	2.465	16.4	20.9	2 5	6 1.26	+24 39.8	1.843	2.627	15.6	22.9
250641 2005 <i>JB</i> ₁₁₈		12 29.2	176°71	2°4/29.6	18		240803 2005 <i>YJ</i> ₉₀		12 29.2	190°46	0°3/29.2	18	
11 27	6 58.79	+15 9.7	2.361	3.									

EPHEMERIDES

12 29.2

12 29.2

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
202755	2007 <i>QW</i> ₁		12 29.2	95°46	0°4/29.2	18	508833	2001 <i>UM</i> ₁₄₁		12 29.2	35°31	2°4/29.4	16
11 27	6 57.11	+22 2.5	2.416	3.248	10.9	21.0	11 27	7 0.16	+18 28.0	1.195	2.054	17.8	20.8
12 7	6 51.26	+21 59.7	2.347	3.257	7.8	20.8	12 7	6 54.63	+18 13.2	1.146	2.067	13.1	20.5
12 17	6 43.71	+21 58.1	2.304	3.265	4.5	20.6	12 17	6 46.02	+18 6.0	1.118	2.081	7.7	20.3
12 27	6 35.15	+21 56.6	2.291	3.273	0.9	20.3	12 27	6 35.63	+18 5.4	1.115	2.095	2.8	20.0
1 6	6 26.48	+21 54.5	2.308	3.281	2.8	20.5	1 6	6 25.13	+18 10.4	1.137	2.111	5.0	20.2
1 16	6 18.54	+21 51.6	2.355	3.290	6.3	20.7	1 16	6 16.17	+18 19.7	1.185	2.127	10.2	20.6
1 26	6 12.12	+21 48.3	2.429	3.298	9.4	20.9	1 26	6 10.04	+18 32.5	1.255	2.144	14.8	20.9
2 5	6 7.73	+21 45.0	2.528	3.306	12.0	21.1	2 5	6 7.36	+18 47.6	1.345	2.161	18.7	21.2
193422	2000 <i>WT</i> ₈₈		12 29.2	32°90	7°6/29.9	18	352941	2009 <i>AL</i> ₄₅		12 29.2	11°24	2°1/29.5	17
11 27	7 7.66	+40 2.1	1.107	1.957	19.6	17.4	11 27	6 56.97	+18 5.6	1.213	2.075	17.4	20.9
12 7	7 0.45	+40 9.4	1.073	1.980	15.2	17.2	12 7	6 52.46	+18 6.7	1.155	2.078	12.8	20.7
12 17	6 49.28	+39 55.5	1.058	2.004	10.7	17.0	12 17	6 44.91	+18 16.7	1.119	2.082	7.6	20.4
12 27	6 36.13	+39 14.3	1.066	2.029	7.7	16.9	12 27	6 35.45	+18 34.2	1.106	2.087	2.6	20.1
1 6	6 23.44	+38 6.4	1.099	2.056	8.6	17.1	1 6	6 25.70	+18 56.9	1.119	2.094	4.9	20.3
1 16	6 13.31	+36 38.8	1.156	2.083	12.1	17.3	1 16	6 17.27	+19 22.4	1.157	2.102	10.1	20.6
1 26	6 7.06	+35 2.1	1.235	2.112	16.0	17.6	1 26	6 11.53	+19 49.0	1.218	2.110	14.9	20.9
2 5	6 5.02	+33 25.7	1.334	2.141	19.3	18.0	2 5	6 9.21	+20 15.3	1.298	2.120	18.9	21.2
58492	1996 <i>TC</i> ₄₄		12 29.2	13°84	2°8/28.9	17	354444	2003 <i>YN</i> ₁₁₄		12 29.2	40°28	0°3/29.3	18
11 27	6 59.41	+29 8.5	1.519	2.372	15.0	19.3	11 27	7 0.24	+20 32.1	1.336	2.191	16.5	19.7
12 7	6 53.93	+29 29.6	1.457	2.375	11.0	19.1	12 7	6 54.49	+21 4.9	1.291	2.211	12.0	19.5
12 17	6 45.60	+29 46.7	1.418	2.379	6.6	18.8	12 17	6 45.88	+21 43.5	1.267	2.231	6.8	19.3
12 27	6 35.52	+29 55.5	1.405	2.384	2.9	18.6	12 27	6 35.62	+22 24.0	1.270	2.252	1.3	19.0
1 6	6 25.21	+29 53.6	1.419	2.390	4.9	18.8	1 6	6 25.26	+23 2.3	1.299	2.274	4.2	19.2
1 16	6 16.15	+29 41.0	1.460	2.396	9.3	19.0	1 16	6 16.34	+23 35.9	1.355	2.297	9.2	19.6
1 26	6 9.63	+29 20.5	1.525	2.403	13.3	19.3	1 26	6 10.05	+24 4.0	1.435	2.319	13.6	19.9
2 5	6 6.32	+28 55.5	1.611	2.411	16.8	19.5	2 5	6 7.02	+24 27.0	1.535	2.343	17.2	20.2
360608	2004 <i>BF</i> ₈₃		12 29.2	349°99	4°8/30.4	18	220849	2004 <i>VZ</i> ₂₈		12 29.2	90°09	0°5/29.1	18
11 27	6 56.51	+10 0.8	1.442	2.280	16.5	20.5	11 27	6 58.77	+23 46.6	2.153	2.989	11.9	20.6
12 7	6 51.84	+10 17.1	1.370	2.274	12.7	20.2	12 7	6 52.69	+24 3.6	2.088	2.999	8.6	20.4
12 17	6 44.48	+10 51.4	1.320	2.269	8.5	20.0	12 17	6 44.62	+24 21.4	2.049	3.010	4.9	20.2
12 27	6 35.35	+11 43.6	1.294	2.265	5.2	19.8	12 27	6 35.39	+24 37.6	2.038	3.021	1.0	19.9
1 6	6 25.75	+12 50.5	1.295	2.262	6.0	19.8	1 6	6 25.99	+24 50.6	2.058	3.031	3.2	20.1
1 16	6 17.09	+14 7.2	1.323	2.260	10.0	20.0	1 16	6 17.46	+24 59.5	2.107	3.042	6.9	20.3
1 26	6 10.66	+15 28.4	1.375	2.258	14.2	20.3	1 26	6 10.67	+25 4.7	2.183	3.052	10.3	20.6
2 5	6 7.25	+16 49.1	1.448	2.258	17.9	20.5	2 5	6 6.20	+25 7.2	2.282	3.062	13.1	20.8
403377	2009 <i>JD</i> ₁₂		12 29.2	274°86	1°4/28.8	18	14360	<i>Ipatov</i>		12 29.2	112°84	6°9/30.8	18
11 27	7 0.83	+24 6.5	1.929	2.767	13.0	21.4	11 27	6 55.02	- 0 59.3	2.645	3.409	11.9	18.8
12 7	6 54.80	+24 58.7	1.834	2.746	9.5	21.1	12 7	6 49.57	- 1 32.0	2.582	3.422	10.0	18.7
12 17	6 46.16	+25 54.9	1.764	2.725	5.5	20.9	12 17	6 42.71	- 1 49.7	2.544	3.435	8.1	18.6
12 27	6 35.67	+26 50.8	1.723	2.704	1.6	20.5	12 27	6 35.04	- 1 50.4	2.532	3.447	7.0	18.5
1 6	6 24.48	+27 41.6	1.711	2.683	4.0	20.7	1 6	6 27.26	- 1 33.9	2.548	3.459	7.2	18.6
1 16	6 13.91	+28 24.4	1.728	2.661	8.4	20.9	1 16	6 20.09	- 1 1.6	2.593	3.471	8.5	18.7
1 26	6 5.24	+28 58.1	1.773	2.639	12.4	21.1	1 26	6 14.16	- 0 16.2	2.663	3.483	10.3	18.8
2 5	5 59.36	+29 23.8	1.839	2.617	15.9	21.3	2 5	6 9.92	+ 0 38.5	2.756	3.494	12.1	18.9
412894	2014 <i>QW</i> ₆₂		12 29.2	243°89	1°7/29.0	17	290000	2005 <i>PG</i> ₁₅		12 29.2	83°34	1°1/29.4	18
11 27	7 0.83	+27 42.7	1.973	2.810	12.7	21.6	11 27	6 59.43	+18 55.6	1.929	2.764	13.1	20.8
12 7	6 54.48	+27 51.7	1.894	2.805	9.3	21.3	12 7	6 53.26	+19 10.3	1.869	2.779	9.5	20.6
12 17	6 45.76	+27 57.9	1.840	2.800	5.5	21.1	12 17	6 44.98	+19 30.0	1.834	2.794	5.5	20.4
12 27	6 35.56	+27 58.5	1.814	2.795	1.9	20.9	12 27	6 35.46	+19 53.0	1.827	2.809	1.5	20.2
1 6	6 25.05	+27 51.7	1.818	2.789	3.9	21.0	1 6	6 25.81	+20 17.1	1.850	2.823	3.5	20.3
1 16	6 15.46	+27 37.7	1.850	2.784	7.8	21.2	1 16	6 17.10	+20 40.8	1.902	2.838	7.4	20.6
1 26	6 7.88	+27 18.3	1.910	2.778	11.5	21.4	1 26	6 10.28	+21 3.4	1.980	2.852	11.0	20.8
2 5	6 2.99	+26 56.0	1.991	2.773	14.7	21.6	2 5	6 5.94	+21 24.5	2.082	2.867	14.0	21.1
422452	2014 <i>SM</i> ₃₀₉		12 29.2	295°43	4°8/28.2	18	455557	2004 <i>NW</i> ₂₂		12 29.2	44°03	11°9/ 1.4	17
11 27	7 0.52	+35 47.0	2.205	3.032	11.9	20.4	11 27	7 26.35	+49 37.0	0.807	1.643	26.3	19.8
12 7	6 54.31	+36 40.0	2.131	3.029	9.2	20.3	12 7	7 15.18	+48 56.5	0.768	1.659	21.5	19.6
12 17	6 45.70	+37 26.1	2.082	3.025	6.4	20.1	12 17	6 57.73	+47 30.3	0.745	1.676	16.4	19.4
12 27	6 35.56	+38 0.2	2.061	3.022	4.8	20.0	12 27	6 37.64	+45 7.4	0.742	1.695	12.5	19.2
1 6	6 25.03	+38 18.7	2.069	3.018	5.9	20.0	1 6	6 19.26	+41 54.6	0.762	1.714	12.3	19.3
1 16	6 15.36	+38 21.0	2.105	3.015	8.5	20.2	1 16	6 5.74	+38 15.2	0.805	1.734	15.7	19.6
1 26	6 7.66	+38 9.2	2.167	3.011	11.4	20.4	1 26	5 58.37	+34 36.1	0.869	1.754	20.1	19.9
2 5	6 2.64	+37 47.1	2.251	3.008	13.9	20.5	2 5	5 56.82	+31 16.5	0.952	1.776	24.1	20.3
337709	2001 <i>UV</i> ₁₂		12 29.2	21°94	0°2/29.2	18	256679	2007 <i>YD</i> ₃₇		12 29.2	33°74	1°6/29.0	18
11 27	6 58.35	+21 47.2	1.057	1.929	18.6	19.6	11 27	7 2.35	+24 38.2	1.110	1.975	18.4	20.1
12 7	6 53.76	+22 19.2	1.011	1.939	13.5	19.3	12 7	6 56.74	+25 13.6	1.058	1.983	13.4	19.8
12 17	6 45.72	+22 57.3	0.984	1.950	7.7	19.1	12 17	6 47.49	+25 51.1	1.025	1.991	7.7	19.5
12 27	6 35.57	+23 36.6	0.980	1.963	1.4	18.7	12 27	6 35.96	+26 24.9	1.017	1.999	2.1	19.2
1 6	6 25.20	+24 12.3	1.001	1.977	4.9	19.0	1 6	6 24.12	+26 50.1	1.034	2.009	5.3	19.4
1 16	6 16.47	+24 41.6	1.047	1.993	10.7	19.4	1 16	6 13.95	+27 5.0	1.076	2.019	11.0	19.8
1 26	6 10.87	+25 4.1	1.114	2.009	15.7	19.7	1 26	6 7.06	+27 11.1	1.140	2.029	16.0	20.1
2 5	6 9.09	+25 20.6	1.199	2.027	19.8	20.0	2 5	6 4.19	+27 11.2	1.222	2.040	20.1	20.4
52129	4796 <i>P-L</i>		12 29.2	59°67	1°8/29.4	18	337748	2001 <i>UY</i> ₁₀₁		12 29.2	122°63	1°0/29.1	18
11 27	7 4.15</												

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
366213	2012 TY ₃₀		12 29.2 45°61	5°6/30.2	18		96572	1998 UN ₁₆		12 29.2 350°39	6°5/27.5	18	
11 27	6 59.37	+10 15.5	1.354	2.192	17.4	20.0	11 27	6 59.58	+35 41.8	1.678	2.520	14.4	17.5
12 7	6 53.81	+9 59.8	1.299	2.202	13.3	19.8	12 7	6 54.40	+37 11.9	1.609	2.513	11.1	17.3
12 17	6 45.52	+10 0.5	1.265	2.213	9.0	19.5	12 17	6 46.15	+38 36.0	1.563	2.507	8.0	17.1
12 27	6 35.58	+10 18.3	1.256	2.224	5.9	19.4	12 27	6 35.78	+39 45.4	1.544	2.502	6.5	17.0
1 6	6 25.45	+10 51.8	1.273	2.236	6.7	19.5	1 6	6 24.77	+40 33.8	1.552	2.498	7.8	17.1
1 16	6 16.55	+11 37.6	1.316	2.248	10.4	19.7	1 16	6 14.78	+40 58.7	1.586	2.495	10.9	17.3
1 26	6 10.10	+12 31.5	1.382	2.261	14.5	20.0	1 26	6 7.31	+41 2.6	1.643	2.492	14.2	17.5
2 5	6 6.76	+13 29.1	1.469	2.273	18.0	20.3	2 5	6 3.27	+40 50.4	1.721	2.491	17.1	17.7
3224	Irkutsk		12 29.2 240°76	1°6/29.4	18 R		406678	2008 EB ₁₁₁		12 29.2 205°65	2°1/28.8	17	
11 27	6 58.62	+18 36.0	2.270	3.098	11.6	16.4	11 27	7 0.58	+28 40.1	2.378	3.207	11.1	22.1
12 7	6 52.61	+18 27.3	2.181	3.087	8.6	16.2	12 7	6 54.08	+29 12.5	2.296	3.203	8.2	21.9
12 17	6 44.65	+18 22.2	2.117	3.075	5.1	16.0	12 17	6 45.51	+29 42.8	2.241	3.198	4.9	21.7
12 27	6 35.43	+18 20.3	2.082	3.062	1.8	15.7	12 27	6 35.63	+30 7.5	2.215	3.193	2.2	21.5
1 6	6 25.88	+18 20.8	2.078	3.050	3.4	15.8	1 6	6 25.41	+30 24.2	2.220	3.187	3.8	21.6
1 16	6 16.98	+18 23.3	2.103	3.037	7.1	16.0	1 16	6 15.91	+30 31.9	2.254	3.181	7.1	21.8
1 26	6 9.64	+18 27.8	2.156	3.023	10.5	16.2	1 26	6 8.09	+30 31.7	2.316	3.175	10.2	22.0
2 5	6 4.49	+18 34.1	2.233	3.009	13.5	16.4	2 5	6 2.58	+30 25.6	2.402	3.168	12.9	22.2
11534	1992 EB ₁₆		12 29.2 142°38	0°6/29.3	18		58676	1997 YN ₁₆		12 29.2 318°15	1°3/29.4	18	
11 27	6 58.37	+21 8.6	2.226	3.059	11.6	18.1	11 27	6 58.53	+19 22.6	1.385	2.240	16.1	18.2
12 7	6 52.36	+21 11.8	2.153	3.063	8.5	17.9	12 7	6 53.68	+19 30.8	1.304	2.223	11.9	17.9
12 17	6 44.45	+21 17.3	2.106	3.067	4.8	17.7	12 17	6 45.76	+19 46.2	1.245	2.208	7.0	17.6
12 27	6 35.38	+21 23.7	2.088	3.070	1.1	17.4	12 27	6 35.72	+20 7.1	1.210	2.192	1.9	17.3
1 6	6 26.12	+21 29.9	2.100	3.074	3.1	17.6	1 6	6 25.02	+20 30.8	1.203	2.177	4.5	17.4
1 16	6 17.63	+21 35.3	2.142	3.077	6.8	17.8	1 16	6 15.29	+20 55.2	1.221	2.163	10.0	17.7
1 26	6 10.78	+21 40.0	2.211	3.080	10.2	18.0	1 26	6 8.03	+21 19.2	1.263	2.150	14.9	17.9
2 5	6 6.15	+21 44.3	2.304	3.083	13.0	18.2	2 5	6 4.17	+21 42.2	1.324	2.137	19.1	18.1
280564	2004 TE ₂		12 29.2 138°04	0°4/29.3	18		187736	2008 FA ₁₁₄		12 29.2 180°62	5°5/29.9	18	
11 27	7 2.75	+21 40.5	1.936	2.768	13.1	21.7	11 27	7 1.45	+9 0.6	1.856	2.668	14.5	21.3
12 7	6 55.69	+21 46.5	1.870	2.780	9.5	21.5	12 7	6 54.83	+8 30.8	1.782	2.669	11.3	21.1
12 17	6 46.38	+21 54.6	1.830	2.791	5.4	21.3	12 17	6 45.98	+8 13.2	1.732	2.670	7.9	20.9
12 27	6 35.74	+22 2.8	1.819	2.801	1.1	21.0	12 27	6 35.71	+8 9.5	1.709	2.670	5.6	20.7
1 6	6 24.93	+22 9.7	1.837	2.811	3.4	21.2	1 6	6 25.17	+8 20.0	1.715	2.670	6.4	20.8
1 16	6 15.14	+22 14.5	1.885	2.820	7.6	21.5	1 16	6 15.49	+8 43.4	1.750	2.668	9.3	21.0
1 26	6 7.36	+22 17.8	1.961	2.829	11.3	21.7	1 26	6 7.71	+9 17.2	1.810	2.667	12.7	21.2
2 5	6 2.21	+22 20.3	2.059	2.837	14.4	21.9	2 5	6 2.49	+9 58.3	1.892	2.664	15.7	21.4
79036	3063 T ₋₂		12 29.2 5°82	9°8/27.9	18		486560	2013 HO ₇₄		12 29.2 111°18	0°8/29.3	17	
11 27	7 6.86	+44 59.6	1.580	2.398	16.3	18.5	11 27	6 59.55	+20 59.7	2.021	2.856	12.6	22.2
12 7	7 0.09	+46 16.3	1.520	2.398	13.5	18.3	12 7	6 53.33	+20 54.3	1.952	2.863	9.1	21.9
12 17	6 49.48	+47 15.6	1.483	2.398	11.0	18.1	12 17	6 45.05	+20 51.1	1.909	2.870	5.2	21.7
12 27	6 36.36	+47 47.2	1.469	2.399	9.8	18.1	12 27	6 35.53	+20 49.1	1.895	2.877	1.3	21.5
1 6	6 22.77	+47 45.9	1.481	2.400	10.6	18.1	1 6	6 25.85	+20 47.5	1.910	2.884	3.3	21.6
1 16	6 10.86	+47 12.8	1.517	2.402	12.9	18.3	1 16	6 17.07	+20 45.9	1.954	2.890	7.3	21.9
1 26	6 2.36	+46 14.8	1.575	2.404	15.7	18.4	1 26	6 10.12	+20 44.7	2.026	2.897	10.9	22.1
2 5	5 58.09	+45 1.5	1.652	2.406	18.3	18.6	2 5	6 5.59	+20 44.2	2.120	2.903	13.9	22.3
130359	2000 GQ ₆₅		12 29.2 193°93	6°7/30.2	18		267540	2002 PA ₉₄		12 29.2 155°39	5°3/28.7	18	
11 27	6 54.33	-3 17.8	3.236	3.978	10.4	20.2	11 27	7 3.05	+41 12.7	2.641	3.445	10.9	20.5
12 7	6 48.95	-4 2.9	3.157	3.976	8.9	20.1	12 7	6 55.78	+41 42.9	2.572	3.450	8.6	20.3
12 17	6 42.34	-4 35.2	3.103	3.973	7.5	20.0	12 17	6 46.41	+42 2.2	2.529	3.454	6.5	20.2
12 27	6 35.00	-4 52.4	3.076	3.969	6.8	19.9	12 27	6 35.79	+42 6.7	2.514	3.458	5.3	20.1
1 6	6 27.49	-4 53.6	3.077	3.965	6.9	19.9	1 6	6 25.01	+41 54.5	2.528	3.462	5.9	20.2
1 16	6 20.41	-4 39.3	3.106	3.961	8.0	20.0	1 16	6 15.18	+41 26.2	2.571	3.466	7.8	20.3
1 26	6 14.31	-4 11.1	3.162	3.956	9.4	20.1	1 26	6 7.24	+40 45.2	2.641	3.469	10.1	20.5
2 5	6 9.63	-3 32.0	3.240	3.951	11.0	20.2	2 5	6 1.77	+39 55.8	2.734	3.472	12.2	20.6
136277	2003 YL ₁₂₅		12 29.2 75°47	5°0/28.9	18		506096	2016 AP ₁₀₄		12 29.2 178°00	9°9/30.3	17	
11 27	7 7.55	+33 0.1	1.318	2.165	17.2	19.6	11 27	7 21.06	+44 53.6	1.155	1.977	20.8	20.9
12 7	7 0.17	+33 42.0	1.269	2.181	12.9	19.4	12 7	7 11.10	+45 5.5	1.092	1.978	16.9	20.7
12 17	6 49.26	+34 14.8	1.243	2.198	8.3	19.2	12 17	6 55.88	+44 49.3	1.049	1.979	12.9	20.4
12 27	6 36.28	+34 31.3	1.242	2.214	5.1	19.0	12 27	6 37.54	+43 53.0	1.029	1.979	10.1	20.3
1 6	6 23.22	+34 27.7	1.267	2.230	6.7	19.2	1 6	6 19.29	+42 13.7	1.033	1.979	10.8	20.3
1 16	6 12.01	+34 5.5	1.318	2.247	10.8	19.4	1 16	6 4.10	+40 0.5	1.063	1.979	14.2	20.5
1 26	6 4.10	+33 30.4	1.393	2.263	14.9	19.7	1 26	5 53.91	+37 30.6	1.116	1.978	18.4	20.8
2 5	6 0.13	+32 48.8	1.488	2.279	18.4	20.0	2 5	5 49.20	+35 0.2	1.188	1.977	22.2	21.0
247857	2003 UN ₃₆		12 29.2 134°98	6°9/28.8	18		328467	2008 WP ₄₂		12 29.2 109°63	5°6/27.4	17	
11 27	7 7.85	+41 34.1	1.885	2.699	14.2	20.2	11 27	7 4.19	+40 40.3	2.742	3.543	10.6	21.1
12 7	6 59.95	+42 14.3	1.822	2.705	11.3	20.1	12 7	6 56.70	+42 1.3	2.687	3.561	8.4	21.0
12 17	6 49.01	+42 40.0	1.782	2.711	8.5	19.9	12 17	6 47.01	+43 12.8	2.659	3.579	6.5	20.9
12 27	6 36.25	+42 44.7	1.769	2.716	7.0	19.8	12 27	6 35.92	+44 9.4	2.661	3.596	5.6	20.9
1 6	6 23.30	+42 25.5	1.784	2.721	7.8	19.9	1 6	6 24.51	+44 47.7	2.693	3.613	6.3	20.9
1 16	6 11.80	+41 44.1	1.826	2.726	10.2	20.0	1 16	6 13.89	+45 7.0	2.753	3.630	8.1	21.1
1 26	6 3.08	+40 46.2	1.893	2.731	13.1	20.2	1 26	6 5.08	+45 9.6	2.840	3.646	10.1	21.2
2 5	5 57.80	+39 38.8	1.982	2.735	15.7	20.4	2 5	5 58.75	+44 59.5	2.950	3.662	11.9	21.4
347486	1995 HD ₃		12 29.2 252°09	0°7/29.1	18		442993	2013 CQ ₁₇₇		12 29.2 61°92	6°2/29.4	17	
11 27	7 1.67	+23 43.3	1.782	2.622	13.8	21.4	11 27	7 7.96	+39 28.3				

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
13965	1991 <i>PL</i> ₈		12 29.2 166°34	0°5/29.1	18		192166	2007 <i>DJ</i> ₁₈		12 29.2 173°60	0°2/29.2	18	
11 27	6 57.71	+24 23.8	2.734	3.562	9.9	19.7	11 27	7 3.28	+23 17.7	2.009	2.840	12.8	21.6
12 7	6 51.66	+24 35.7	2.658	3.566	7.1	19.5	12 7	6 56.16	+23 29.4	1.935	2.844	9.3	21.4
12 17	6 44.00	+24 47.5	2.609	3.569	4.1	19.3	12 17	6 46.74	+23 42.1	1.886	2.846	5.3	21.2
12 27	6 35.36	+24 57.6	2.590	3.572	0.9	19.1	12 27	6 35.90	+23 53.3	1.866	2.849	1.0	20.9
1 6	6 26.55	+25 4.7	2.601	3.574	2.7	19.2	1 6	6 24.79	+24 1.1	1.876	2.850	3.4	21.1
1 16	6 18.36	+25 8.3	2.644	3.577	5.8	19.4	1 16	6 14.60	+24 5.0	1.917	2.851	7.6	21.3
1 26	6 11.55	+25 8.9	2.715	3.578	8.7	19.6	1 26	6 6.39	+24 5.5	1.984	2.850	11.3	21.6
2 5	6 6.62	+25 7.3	2.811	3.580	11.2	19.8	2 5	6 0.79	+24 4.1	2.074	2.850	14.4	21.8
307333	2002 <i>RW</i> ₂₈		12 29.2 79°88	6°5/29.9	18		442313	2011 <i>SG</i> ₉₇		12 29.2 26°41	7°7/28.4	17	
11 27	6 59.84	+7 19.9	1.771	2.583	15.0	20.9	11 27	7 2.62	+37 19.4	1.223	2.077	17.9	20.5
12 7	6 53.52	+6 29.1	1.718	2.602	11.8	20.8	12 7	6 57.03	+38 31.4	1.182	2.091	13.8	20.3
12 17	6 45.13	+5 52.5	1.689	2.621	8.7	20.6	12 17	6 47.69	+39 29.6	1.161	2.107	9.9	20.1
12 27	6 35.56	+5 32.6	1.686	2.639	6.6	20.5	12 27	6 36.08	+40 4.6	1.164	2.124	7.8	20.0
1 6	6 25.95	+5 30.1	1.712	2.658	7.2	20.6	1 6	6 24.33	+40 11.7	1.192	2.143	9.0	20.1
1 16	6 17.37	+5 43.8	1.764	2.676	9.7	20.8	1 16	6 14.48	+39 52.3	1.243	2.162	12.3	20.4
1 26	6 10.75	+6 10.9	1.841	2.694	12.7	21.0	1 26	6 8.08	+39 13.1	1.316	2.182	15.9	20.7
2 5	6 6.62	+6 47.5	1.940	2.712	15.4	21.3	2 5	6 5.77	+38 22.1	1.408	2.203	19.1	20.9
388142	2005 <i>WR</i> ₄₆		12 29.2 294°11	0°1/29.2	18		312431	2008 <i>GC</i> ₁₂₃		12 29.2 246°80	1°2/29.5	17	
11 27	7 1.00	+22 32.9	1.481	2.331	15.5	21.3	11 27	6 58.51	+18 41.7	1.963	2.798	12.9	21.4
12 7	6 55.34	+22 37.0	1.399	2.317	11.4	21.1	12 7	6 52.76	+18 54.9	1.887	2.797	9.4	21.1
12 17	6 46.65	+22 43.7	1.339	2.303	6.6	20.7	12 17	6 44.85	+19 13.6	1.836	2.796	5.5	20.9
12 27	6 35.91	+22 50.4	1.306	2.289	1.2	20.4	12 27	6 35.56	+19 36.2	1.813	2.795	1.6	20.6
1 6	6 24.57	+22 55.1	1.300	2.275	4.3	20.5	1 6	6 25.97	+20 0.7	1.820	2.793	3.5	20.8
1 16	6 14.24	+22 57.0	1.321	2.261	9.6	20.8	1 16	6 17.17	+20 25.6	1.855	2.792	7.6	21.0
1 26	6 6.37	+22 56.8	1.366	2.248	14.4	21.0	1 26	6 10.17	+20 49.8	1.917	2.791	11.3	21.2
2 5	6 1.86	+22 55.6	1.431	2.234	18.4	21.3	2 5	6 5.63	+21 12.9	2.002	2.789	14.4	21.4
262779	2006 <i>YM</i> ₁₃		12 29.2 56°29	3°1/28.8	18		402335	2005 <i>UY</i> ₂₈₇		12 29.2 68°61	2°4/28.8	18	
11 27	7 1.84	+29 52.9	1.700	2.543	14.2	20.7	11 27	7 0.39	+28 4.8	1.921	2.760	12.9	21.4
12 7	6 55.41	+30 29.1	1.647	2.560	10.4	20.5	12 7	6 54.24	+28 44.7	1.856	2.768	9.4	21.2
12 17	6 46.37	+31 0.9	1.618	2.576	6.3	20.3	12 17	6 45.71	+29 22.6	1.816	2.775	5.6	21.0
12 27	6 35.80	+31 23.4	1.616	2.593	3.2	20.1	12 27	6 35.72	+29 54.4	1.805	2.783	2.5	20.8
1 6	6 25.11	+31 34.0	1.643	2.610	4.9	20.3	1 6	6 25.47	+30 17.0	1.822	2.791	4.3	20.9
1 16	6 15.68	+31 32.5	1.697	2.627	8.7	20.5	1 16	6 16.19	+30 29.2	1.868	2.799	8.0	21.2
1 26	6 8.63	+31 21.2	1.777	2.645	12.3	20.8	1 26	6 8.97	+30 32.4	1.940	2.806	11.5	21.4
2 5	6 4.60	+31 3.6	1.878	2.662	15.3	21.0	2 5	6 4.47	+30 28.8	2.035	2.814	14.5	21.6
490524	2009 <i>US</i> ₁₃₉		12 29.2 34°53	3°3/29.3	18		25407	1999 <i>VM</i> ₃₄		12 29.2 345°96	4°8/29.0	18	
11 27	7 4.15	+30 44.6	1.080	1.944	18.9	20.3	11 27	6 59.36	+15 40.1	1.438	2.284	16.1	17.4
12 7	6 57.94	+30 41.9	1.037	1.960	13.9	20.0	12 7	6 53.87	+14 25.1	1.367	2.278	12.2	17.1
12 17	6 48.05	+30 30.4	1.014	1.977	8.3	19.8	12 17	6 45.65	+13 15.1	1.318	2.272	8.0	16.8
12 27	6 36.11	+30 5.7	1.015	1.994	3.6	19.6	12 27	6 35.72	+12 13.6	1.295	2.268	4.9	16.7
1 6	6 24.27	+29 27.3	1.041	2.013	5.8	19.8	1 6	6 25.48	+11 24.2	1.299	2.264	6.5	16.7
1 16	6 14.51	+28 38.8	1.091	2.033	11.0	20.1	1 16	6 16.38	+10 49.1	1.330	2.260	10.6	17.0
1 26	6 8.24	+27 46.3	1.164	2.053	15.7	20.5	1 26	6 9.63	+10 28.7	1.384	2.258	14.7	17.2
2 5	6 5.98	+26 54.9	1.256	2.074	19.6	20.8	2 5	6 5.96	+10 21.4	1.457	2.256	18.4	17.4
461073	2015 <i>AX</i>		12 29.2 307°52	3°5/30.0	18		434553	2005 <i>TC</i> ₁₀₀		12 29.2 179°46	1°2/29.1	18	
11 27	6 55.49	+11 36.9	2.185	3.006	12.2	20.8	11 27	7 4.62	+26 3.5	2.080	2.908	12.5	22.9
12 7	6 50.41	+11 47.8	2.100	2.997	9.3	20.6	12 7	6 57.14	+26 21.4	2.003	2.910	9.1	22.6
12 17	6 43.45	+11 51.1	2.040	2.988	6.2	20.4	12 17	6 47.31	+26 37.9	1.953	2.912	5.3	22.4
12 27	6 35.29	+12 22.6	2.008	2.979	3.7	20.2	12 27	6 36.03	+26 50.1	1.931	2.913	1.5	22.2
1 6	6 26.79	+12 57.2	2.005	2.970	4.5	20.3	1 6	6 24.46	+26 55.8	1.940	2.912	3.6	22.3
1 16	6 18.90	+13 38.8	2.031	2.961	7.5	20.4	1 16	6 13.81	+26 54.5	1.980	2.911	7.6	22.5
1 26	6 12.49	+14 25.2	2.084	2.952	10.7	20.6	1 26	6 5.16	+26 47.7	2.047	2.909	11.2	22.8
2 5	6 8.17	+15 13.9	2.161	2.944	13.6	20.8	2 5	5 59.16	+26 37.5	2.137	2.906	14.2	23.0
490206	2008 <i>UW</i> ₃₅₆		12 29.2 104°24	1°7/28.9	17		128398	2004 <i>LU</i> ₆		12 29.2 171°79	1°2/29.1	18	
11 27	6 58.47	+28 1.1	2.541	3.371	10.5	21.6	11 27	7 3.98	+25 46.4	1.951	2.783	13.1	21.2
12 7	6 52.30	+28 23.1	2.477	3.384	7.6	21.5	12 7	6 56.78	+26 7.4	1.878	2.787	9.5	21.0
12 17	6 44.38	+28 42.8	2.439	3.397	4.5	21.3	12 17	6 47.15	+26 27.5	1.830	2.790	5.5	20.8
12 27	6 35.44	+28 57.7	2.431	3.410	1.8	21.1	12 27	6 36.01	+26 43.4	1.811	2.792	1.6	20.5
1 6	6 26.37	+29 6.2	2.453	3.422	3.2	21.2	1 6	6 24.58	+26 52.9	1.822	2.794	3.7	20.7
1 16	6 18.07	+29 8.0	2.505	3.435	6.3	21.5	1 16	6 14.13	+26 55.3	1.862	2.795	7.9	20.9
1 26	6 11.31	+29 4.0	2.586	3.447	9.2	21.7	1 26	6 5.76	+26 51.8	1.930	2.795	11.6	21.2
2 5	6 6.62	+28 55.9	2.690	3.459	11.6	21.9	2 5	6 0.17	+26 44.6	2.020	2.795	14.7	21.4
271988	2005 <i>CD</i> ₁₇		12 29.2 224°48	2°2/29.0	18		210889	2001 <i>SR</i> ₁₀₅		12 29.2 61°14	2°3/29.3	18	
11 27	6 59.38	+30 8.3	2.376	3.207	11.1	20.8	11 27	7 4.90	+19 57.4	1.120	1.978	18.9	19.8
12 7	6 53.16	+30 16.4	2.298	3.204	8.1	20.6	12 7	6 58.21	+19 23.6	1.073	1.993	13.8	19.5
12 17	6 44.96	+30 20.1	2.245	3.202	4.9	20.4	12 17	6 48.15	+18 54.5	1.046	2.009	8.1	19.3
12 27	6 35.56	+30 16.9	2.222	3.200	2.3	20.2	12 27	6 36.18	+18 30.2	1.044	2.025	2.7	19.0
1 6	6 25.95	+30 5.7	2.229	3.197	3.7	20.3	1 6	6 24.20	+18 11.0	1.068	2.041	5.3	19.2
1 16	6 17.14	+29 46.7	2.265	3.194	6.9	20.5	1 16	6 14.03	+17 57.4	1.116	2.058	10.8	19.6
1 26	6 10.02	+29 21.7	2.329	3.191	10.0	20.7	1 26	6 7.04	+17 50.0	1.188	2.074	15.7	19.9
2 5	6 5.18	+28 53.3	2.416	3.189	12.7	20.9	2 5	6 3.82	+17 48.4	1.278	2.091	19.6	20.2
107726	2001 <i>FZ</i> ₂₆		12 29.2 170°70	11°1/30.9	18		122144	2000 <i>JY</i> ₄₂		12 29.2 145°31	1°2/29.1	18	
11 27	6 58.17												

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12 29.2

12 29.2

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
518012	2015 VY ₈₃		12 29.2 84°46'	6°7/30.5	18		181015	2005 NU ₇₇		12 29.2 94°17'	0°0/29.1	18	
11 27	6 58.75	+ 4 41.6	1.926	2.727	14.5	21.2	11 27	7 0.87	+23 36.5	1.940	2.777	12.9	20.8
12 7	6 52.64	+ 4 9.6	1.873	2.747	11.5	21.1	12 7	6 54.37	+23 27.1	1.876	2.787	9.4	20.6
12 17	6 44.62	+ 3 53.4	1.843	2.766	8.7	20.9	12 17	6 45.70	+23 17.5	1.836	2.797	5.3	20.4
12 27	6 35.52	+ 3 54.9	1.840	2.786	6.8	20.9	12 27	6 35.75	+23 6.5	1.825	2.807	1.0	20.1
1 6	6 26.35	+ 4 13.8	1.865	2.805	7.2	20.9	1 6	6 25.70	+22 53.5	1.843	2.817	3.4	20.3
1 16	6 18.11	+ 4 48.1	1.917	2.825	9.3	21.1	1 16	6 16.65	+22 38.7	1.891	2.827	7.5	20.6
1 26	6 11.64	+ 5 34.3	1.994	2.844	12.0	21.3	1 26	6 9.59	+22 23.5	1.965	2.837	11.1	20.8
2 5	6 7.47	+ 6 28.2	2.094	2.862	14.5	21.5	2 5	6 5.08	+22 9.0	2.062	2.846	14.2	21.0
381405	2008 HJ ₁₄		12 29.2 213°94'	0°8/29.2	18		69298	1992 DR ₉		12 29.2 264°21'	0°7/29.3	18	
11 27	7 3.97	+24 52.7	1.608	2.450	14.9	21.8	11 27	7 1.70	+21 29.0	1.625	2.468	14.7	20.0
12 7	6 57.24	+25 0.5	1.533	2.447	10.9	21.6	12 7	6 55.59	+21 26.6	1.543	2.457	10.8	19.8
12 17	6 47.61	+25 8.0	1.481	2.443	6.3	21.3	12 17	6 46.72	+21 26.9	1.484	2.446	6.3	19.5
12 27	6 36.12	+25 12.1	1.456	2.438	1.4	20.9	12 27	6 35.99	+21 28.4	1.453	2.435	1.4	19.1
1 6	6 24.22	+25 10.7	1.459	2.433	4.1	21.1	1 6	6 24.77	+21 29.3	1.449	2.423	4.0	19.3
1 16	6 13.44	+25 3.5	1.491	2.428	9.0	21.4	1 16	6 14.51	+21 29.3	1.473	2.412	9.0	19.6
1 26	6 5.11	+24 52.2	1.548	2.423	13.4	21.6	1 26	6 6.52	+21 28.8	1.523	2.400	13.4	19.8
2 5	6 0.01	+24 39.2	1.627	2.417	17.1	21.9	2 5	6 1.61	+21 28.7	1.593	2.388	17.2	20.0
128489	2004 PU ₁₃		12 29.2 92°61'	0°6/29.2	18		404180	2013 CG ₉₈		12 29.2 268°18'	1°4/29.1	17	
11 27	7 4.27	+24 6.5	1.651	2.490	14.7	20.1	11 27	7 1.24	+26 28.1	1.862	2.701	13.3	22.0
12 7	6 57.05	+24 20.2	1.598	2.511	10.6	19.9	12 7	6 55.08	+26 41.3	1.776	2.688	9.7	21.7
12 17	6 47.26	+24 34.2	1.570	2.531	6.0	19.7	12 17	6 46.35	+26 53.3	1.714	2.675	5.7	21.5
12 27	6 36.01	+24 45.4	1.569	2.551	1.2	19.4	12 27	6 35.92	+27 0.9	1.680	2.662	1.7	21.2
1 6	6 24.72	+24 51.8	1.597	2.571	3.8	19.6	1 6	6 25.03	+27 1.8	1.675	2.648	3.9	21.3
1 16	6 14.73	+24 53.0	1.654	2.590	8.4	19.9	1 16	6 15.00	+26 55.6	1.699	2.634	8.3	21.5
1 26	6 7.16	+24 50.4	1.736	2.609	12.3	20.2	1 26	6 7.04	+26 43.8	1.749	2.621	12.3	21.7
2 5	6 2.59	+24 45.7	1.841	2.627	15.5	20.5	2 5	6 1.94	+26 28.6	1.821	2.607	15.7	21.9
412345	2013 LL ₈		12 29.2 128°02'	0°1/29.3	18		262255	2006 SD ₃₁₈		12 29.2 43°68'	2°3/28.9	18	
11 27	6 58.66	+21 53.0	2.593	3.419	10.4	21.7	11 27	7 0.88	+27 43.2	1.785	2.628	13.6	20.5
12 7	6 52.34	+22 6.2	2.527	3.433	7.5	21.5	12 7	6 54.80	+28 20.5	1.717	2.630	10.0	20.3
12 17	6 44.39	+22 20.9	2.487	3.447	4.3	21.3	12 17	6 46.15	+28 56.3	1.673	2.633	5.9	20.1
12 27	6 35.48	+22 35.5	2.478	3.460	0.8	21.1	12 27	6 35.87	+29 26.1	1.656	2.635	2.5	19.9
1 6	6 26.46	+22 48.8	2.500	3.473	2.7	21.3	1 6	6 25.26	+29 46.7	1.668	2.638	4.4	20.0
1 16	6 18.14	+23 0.0	2.552	3.486	6.0	21.5	1 16	6 15.67	+29 56.8	1.708	2.641	8.5	20.3
1 26	6 11.27	+23 9.1	2.633	3.498	8.9	21.7	1 26	6 8.28	+29 57.9	1.774	2.644	12.2	20.5
2 5	6 6.34	+23 16.4	2.739	3.509	11.4	21.9	2 5	6 3.79	+29 52.5	1.862	2.647	15.4	20.7
221756	2007 EM ₂₂₁		12 29.2 134°69'	1°0/29.4	17		175744	1998 QK ₄₇		12 29.2 134°89'	1°9/29.6	18	
11 27	6 58.44	+19 57.7	2.160	2.992	12.0	21.5	11 27	7 0.66	+17 7.8	2.168	2.992	12.2	20.9
12 7	6 52.50	+20 0.3	2.087	2.996	8.7	21.3	12 7	6 54.00	+17 7.9	2.102	3.005	9.0	20.7
12 17	6 44.61	+20 6.3	2.041	3.000	5.0	21.1	12 17	6 45.42	+17 13.4	2.062	3.018	5.4	20.5
12 27	6 35.54	+20 14.4	2.022	3.004	1.4	20.8	12 27	6 35.71	+17 23.2	2.051	3.030	2.1	20.3
1 6	6 26.26	+20 23.4	2.034	3.008	3.2	21.0	1 6	6 25.87	+17 36.3	2.070	3.041	3.5	20.4
1 16	6 17.76	+20 32.6	2.075	3.011	7.0	21.2	1 16	6 16.86	+17 51.7	2.119	3.052	7.1	20.7
1 26	6 10.93	+20 41.8	2.144	3.014	10.4	21.4	1 26	6 9.56	+18 8.5	2.196	3.062	10.4	20.9
2 5	6 6.36	+20 50.8	2.236	3.017	13.3	21.6	2 5	6 4.53	+18 26.3	2.296	3.071	13.2	21.1
270869	2002 TE ₉₉		12 29.2 139°99'	2°2/28.9	18		444524	2006 SY ₁₀₇		12 29.2 34°76'	9°1/27.6	18	
11 27	6 59.19	+30 36.3	2.675	3.500	10.1	21.3	11 27	7 5.67	+42 19.0	1.560	2.386	16.1	20.2
12 7	6 52.81	+30 52.3	2.604	3.508	7.4	21.1	12 7	6 59.15	+43 53.5	1.510	2.395	13.0	20.1
12 17	6 44.68	+31 4.1	2.561	3.516	4.5	21.0	12 17	6 48.97	+45 12.8	1.482	2.405	10.4	19.9
12 27	6 35.54	+31 9.4	2.547	3.523	2.3	20.8	12 27	6 36.42	+46 6.7	1.479	2.415	9.1	19.9
1 6	6 26.26	+31 6.8	2.563	3.529	3.5	20.9	1 6	6 23.44	+46 29.5	1.502	2.426	10.1	20.0
1 16	6 17.72	+30 56.4	2.610	3.536	6.3	21.1	1 16	6 12.05	+46 21.6	1.549	2.437	12.5	20.1
1 26	6 10.72	+30 39.7	2.685	3.542	9.0	21.3	1 26	6 3.90	+45 49.0	1.619	2.449	15.3	20.3
2 5	6 5.76	+30 18.8	2.785	3.548	11.4	21.5	2 5	5 59.78	+45 0.1	1.708	2.461	17.8	20.5
355319	2007 SB ₁₆		12 29.2 36°47'	8°6/31.1	17		141684	2002 JS ₁₂₆		12 29.2 91°05'	3°2/28.7	18	
11 27	6 57.77	+ 3 46.8	1.311	2.135	18.7	20.7	11 27	7 7.16	+27 36.8	1.411	2.256	16.4	19.6
12 7	6 52.60	+ 3 16.4	1.266	2.152	15.0	20.5	12 7	6 59.71	+28 39.8	1.362	2.276	12.0	19.4
12 17	6 44.84	+ 3 9.9	1.241	2.170	11.3	20.4	12 17	6 49.03	+29 40.9	1.336	2.296	7.1	19.2
12 27	6 35.58	+ 3 29.6	1.239	2.189	8.9	20.3	12 27	6 36.41	+30 32.9	1.337	2.315	3.3	19.0
1 6	6 26.23	+ 4 14.2	1.262	2.209	9.1	20.3	1 6	6 23.59	+31 10.3	1.366	2.334	5.5	19.2
1 16	6 18.16	+ 5 19.1	1.310	2.230	11.7	20.5	1 16	6 12.34	+31 31.7	1.422	2.353	10.0	19.5
1 26	6 12.48	+ 6 37.4	1.381	2.251	15.0	20.8	1 26	6 4.05	+31 39.5	1.502	2.371	14.1	19.8
2 5	6 9.80	+ 8 1.9	1.472	2.272	18.1	21.1	2 5	5 59.41	+31 37.9	1.603	2.388	17.5	20.0
179310	2001 VN ₁₁₂		12 29.2 102°71'	2°2/28.9	18		207531	2006 KQ ₁₃		12 29.2 138°31'	1°5/29.6	18	
11 27	7 1.13	+28 36.2	1.998	2.834	12.6	20.3	11 27	7 1.24	+16 45.1	2.102	2.926	12.6	20.9
12 7	6 54.67	+28 58.2	1.932	2.842	9.2	20.1	12 7	6 54.54	+17 14.7	2.035	2.938	9.2	20.7
12 17	6 45.92	+29 16.9	1.891	2.849	5.5	19.9	12 17	6 45.80	+17 51.3	1.992	2.949	5.4	20.5
12 27	6 35.80	+29 29.2	1.878	2.857	2.3	19.7	12 27	6 35.80	+18 32.7	1.979	2.959	1.8	20.3
1 6	6 25.48	+29 32.8	1.895	2.864	4.0	19.8	1 6	6 25.58	+19 16.2	1.997	2.969	3.4	20.4
1 16	6 16.15	+29 27.7	1.940	2.871	7.7	20.1	1 16	6 16.18	+19 59.4	2.045	2.979	7.2	20.6
1 26	6 8.85	+29 15.6	2.012	2.879	11.2	20.3	1 26	6 8.53	+20 40.8	2.121	2.988	10.6	20.9
2 5	6 4.18	+28 59.1	2.107	2.886	14.1	20.5	2 5	6 3.24	+21 19.4	2.220	2.996	13.5	21.1
48343	2180 P-L		12 29.2 288°18'	3°7/29.7	18		306762	2001 AE ₅		12 29.2 37°64'	3°5/29.9	18	
11 27	6 56.23	+12 20.1	2.214	3.035	12.1	19.6	11 27	6 59.65	+14				

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12 29.2

12 29.3

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
443871	2001 <i>TU</i> ₅₀		12 29.2	42°07'	11.3/31.4	17	88626	2001 <i>RW</i> ₂₆		12 29.3	91°94'	1°0'/29.2	18
11 27	6 57.39	- 3 18.6	1.547	2.332	18.1	20.7	11 27	7 5.35	+24 49.9	1.587	2.428	15.1	19.9
12 7	6 52.00	- 4 31.6	1.506	2.352	15.4	20.6	12 7	6 57.94	+25 7.6	1.537	2.450	10.9	19.7
12 17	6 44.39	- 5 18.4	1.485	2.373	13.0	20.5	12 17	6 47.85	+25 25.0	1.510	2.471	6.2	19.4
12 27	6 35.54	- 5 34.1	1.486	2.394	11.5	20.5	12 27	6 36.23	+25 38.4	1.510	2.493	1.5	19.2
1 6	6 26.64	- 5 17.9	1.511	2.416	11.6	20.5	1 6	6 24.58	+25 45.5	1.540	2.513	4.0	19.4
1 16	6 18.86	- 4 32.9	1.560	2.438	13.1	20.7	1 16	6 14.33	+25 46.3	1.597	2.534	8.6	19.7
1 26	6 13.14	- 3 25.4	1.632	2.461	15.2	20.9	1 26	6 6.61	+25 42.2	1.681	2.554	12.6	20.0
2 5	6 10.04	- 2 3.3	1.722	2.484	17.4	21.1	2 5	6 2.03	+25 35.4	1.786	2.573	15.9	20.3
115433	2003 <i>TS</i> ₂		12 29.3	44°27'	0°6'/29.4	18	239046	Judysyd		12 29.3	317°14'	5°7'/28.3	18
11 27	6 57.96	+20 41.8	1.873	2.715	13.1	19.0	11 27	7 4.18	+34 21.8	1.548	2.390	15.4	20.3
12 7	6 52.34	+20 55.2	1.815	2.729	9.5	18.8	12 7	6 57.88	+35 26.1	1.480	2.386	11.8	20.1
12 17	6 44.59	+21 12.4	1.782	2.743	5.4	18.6	12 17	6 48.24	+36 23.5	1.434	2.383	8.0	19.8
12 27	6 35.60	+21 31.2	1.776	2.758	1.2	18.3	12 27	6 36.37	+37 6.0	1.414	2.380	5.8	19.7
1 6	6 26.47	+21 49.8	1.799	2.774	3.4	18.5	1 6	6 23.94	+37 27.9	1.421	2.377	7.2	19.8
1 16	6 18.30	+22 6.9	1.851	2.789	7.5	18.8	1 16	6 12.77	+37 28.2	1.455	2.374	10.8	20.0
1 26	6 12.04	+22 22.2	1.929	2.805	11.1	19.1	1 26	6 4.41	+37 10.6	1.512	2.372	14.6	20.2
2 5	6 8.26	+22 35.7	2.029	2.821	14.1	19.3	2 5	5 59.76	+36 41.0	1.590	2.369	17.9	20.4
112805	2002 <i>QL</i> ₂		12 29.3	289°90'	7°2'/30.9	18	91770	1999 <i>TE</i> ₂₀₀		12 29.3	39°43'	5°7'/28.9	17
11 27	6 57.83	+ 3 29.3	1.770	2.572	15.5	19.4	11 27	7 3.06	+38 6.7	1.833	2.662	13.9	19.1
12 7	6 52.46	+ 3 19.1	1.692	2.566	12.5	19.2	12 7	6 56.43	+38 39.3	1.775	2.671	10.8	19.0
12 17	6 44.81	+ 3 28.2	1.636	2.560	9.5	19.0	12 17	6 47.07	+39 0.2	1.740	2.681	7.7	18.8
12 27	6 35.68	+ 3 58.6	1.606	2.554	7.4	18.9	12 27	6 36.10	+39 4.2	1.732	2.691	5.8	18.7
1 6	6 26.15	+ 4 49.7	1.603	2.548	7.7	18.9	1 6	6 25.00	+38 48.9	1.752	2.702	6.7	18.8
1 16	6 17.37	+ 5 58.2	1.627	2.542	10.2	19.0	1 16	6 15.23	+38 15.7	1.799	2.713	9.4	19.0
1 26	6 10.43	+ 7 19.1	1.676	2.536	13.4	19.2	1 26	6 7.95	+37 29.1	1.871	2.724	12.5	19.2
2 5	6 6.02	+ 8 46.5	1.747	2.530	16.4	19.4	2 5	6 3.80	+36 34.9	1.965	2.736	15.2	19.4
421017	2013 <i>PJ</i> ₅₈		12 29.3	115°82'	1°8'/29.4	17	401529	2013 <i>EO</i> ₉₃		12 29.3	323°70'	1°5'/29.4	17
11 27	6 57.92	+17 51.9	2.524	3.348	10.7	21.7	11 27	6 58.21	+19 59.6	1.529	2.380	15.1	20.9
12 7	6 51.81	+17 31.1	2.458	3.361	7.9	21.5	12 7	6 53.21	+19 50.3	1.448	2.365	11.1	20.7
12 17	6 44.11	+17 13.7	2.418	3.373	4.7	21.4	12 17	6 45.45	+19 45.4	1.389	2.351	6.6	20.4
12 27	6 35.51	+16 59.6	2.407	3.385	2.0	21.2	12 27	6 35.85	+19 43.9	1.357	2.338	1.9	20.0
1 6	6 26.84	+16 49.0	2.427	3.397	3.2	21.3	1 6	6 25.74	+19 44.9	1.351	2.325	4.3	20.2
1 16	6 18.88	+16 41.6	2.478	3.409	6.3	21.5	1 16	6 16.56	+19 47.7	1.372	2.313	9.2	20.4
1 26	6 12.36	+16 37.6	2.556	3.420	9.2	21.7	1 26	6 9.64	+19 52.3	1.418	2.302	13.8	20.7
2 5	6 7.75	+16 36.7	2.659	3.431	11.7	21.9	2 5	6 5.79	+19 58.7	1.484	2.291	17.7	20.9
481201	2005 <i>UA</i> ₄₈₃		12 29.3	82°60'	1°1'/29.4	16	407416	2010 <i>TO</i> ₉₄		12 29.3	304°84'	0°2'/29.2	17
11 27	7 3.72	+19 26.8	1.490	2.332	15.9	21.5	11 27	6 59.58	+23 5.2	1.901	2.740	13.0	21.4
12 7	6 56.83	+19 39.6	1.439	2.352	11.5	21.3	12 7	6 53.68	+23 16.4	1.826	2.739	9.5	21.2
12 17	6 47.25	+19 58.2	1.412	2.373	6.6	21.0	12 17	6 45.48	+23 29.1	1.776	2.738	5.4	21.0
12 27	6 36.12	+20 19.8	1.411	2.393	1.7	20.8	12 27	6 35.83	+23 41.2	1.754	2.737	1.0	20.7
1 6	6 24.91	+20 42.0	1.439	2.413	4.1	21.0	1 6	6 25.88	+23 50.7	1.762	2.736	3.5	20.9
1 16	6 15.06	+21 3.0	1.494	2.433	8.9	21.3	1 16	6 16.81	+23 56.8	1.798	2.735	7.7	21.1
1 26	6 7.73	+21 22.5	1.575	2.452	13.0	21.6	1 26	6 9.69	+24 0.0	1.860	2.734	11.5	21.3
2 5	6 3.51	+21 40.3	1.677	2.471	16.5	21.9	2 5	6 5.18	+24 1.2	1.945	2.733	14.8	21.6
170015	2002 <i>UE</i> ₈		12 29.3	63°18'	1°3'/29.6	18	53446	1999 <i>XD</i> ₁₀₃		12 29.3	77°13'	1°8'/28.9	18
11 27	7 2.04	+17 31.9	1.618	2.456	15.0	19.2	11 27	7 4.95	+24 33.3	1.383	2.231	16.5	18.5
12 7	6 55.39	+18 7.3	1.573	2.484	10.9	19.0	12 7	6 58.12	+25 27.5	1.332	2.249	11.9	18.3
12 17	6 46.34	+18 50.2	1.552	2.512	6.3	18.8	12 17	6 48.17	+26 23.5	1.304	2.266	6.8	18.1
12 27	6 35.94	+19 37.5	1.559	2.540	1.8	18.6	12 27	6 36.33	+27 15.0	1.303	2.284	2.1	17.8
1 6	6 25.51	+20 25.3	1.594	2.568	3.8	18.8	1 6	6 24.28	+27 56.9	1.329	2.301	4.8	18.0
1 16	6 16.31	+21 10.8	1.658	2.596	8.2	19.1	1 16	6 13.71	+28 26.9	1.382	2.319	9.7	18.4
1 26	6 9.37	+21 52.3	1.748	2.624	12.1	19.4	1 26	6 5.97	+28 46.1	1.460	2.336	14.0	18.7
2 5	6 5.27	+22 29.3	1.860	2.652	15.2	19.7	2 5	6 1.75	+28 56.9	1.559	2.353	17.5	18.9
189445	1998 <i>TJ</i> ₇		12 29.3	100°53'	4°7'/29.4	17	395864	2013 <i>AG</i> ₁₄		12 29.3	51°67'	3°8'/30.4	18
11 27	7 5.95	+39 26.7	2.362	3.171	11.9	19.6	11 27	6 59.93	+10 59.4	1.532	2.364	16.1	20.1
12 7	6 57.84	+39 28.3	2.301	3.186	9.2	19.4	12 7	6 54.14	+11 34.7	1.473	2.376	12.1	19.8
12 17	6 47.57	+39 17.8	2.265	3.201	6.5	19.3	12 17	6 45.80	+12 26.2	1.437	2.388	7.8	19.6
12 27	6 36.16	+38 52.1	2.258	3.216	4.8	19.2	12 27	6 35.89	+13 31.7	1.427	2.401	4.2	19.4
1 6	6 24.82	+38 10.6	2.281	3.230	5.4	19.3	1 6	6 25.72	+14 46.9	1.444	2.414	5.1	19.5
1 16	6 14.70	+37 15.4	2.334	3.244	7.8	19.4	1 16	6 16.61	+16 6.5	1.490	2.427	9.1	19.8
1 26	6 6.73	+36 11.0	2.414	3.258	10.4	19.6	1 26	6 9.73	+17 25.8	1.562	2.440	13.1	20.1
2 5	6 1.40	+35 2.3	2.519	3.272	12.7	19.8	2 5	6 5.75	+18 41.1	1.655	2.454	16.5	20.3
269866	2000 <i>EY</i> ₅₉		12 29.3	333°29'	1°0'/29.1	18	354656	2005 <i>JX</i> ₁₄₇		12 29.3	247°86'	6°6'/30.1	18
11 27	6 56.36	+25 5.3	1.611	2.466	14.2	20.3	11 27	6 58.15	+ 4 43.4	2.097	2.894	13.6	21.5
12 7	6 51.91	+25 17.7	1.524	2.444	10.5	20.0	12 7	6 52.45	+ 4 9.6	2.009	2.880	11.0	21.3
12 17	6 44.74	+25 30.7	1.460	2.423	6.1	19.7	12 17	6 44.73	+ 3 49.6	1.945	2.866	8.4	21.1
12 27	6 35.71	+25 41.3	1.421	2.404	1.5	19.4	12 27	6 35.70	+ 3 46.0	1.907	2.852	6.7	21.0
1 6	6 26.10	+25 47.3	1.410	2.385	4.1	19.5	1 6	6 26.27	+ 3 59.6	1.897	2.837	7.2	21.0
1 16	6 17.34	+25 47.6	1.426	2.367	9.0	19.7	1 16	6 17.45	+ 4 29.5	1.916	2.822	9.4	21.1
1 26	6 10.75	+25 43.1	1.466	2.350	13.4	20.0	1 26	6 10.18	+ 5 13.1	1.960	2.806	12.3	21.2
2 5	6 7.20	+25 35.4	1.527	2.334	17.2	20.2	2 5	6 5.12	+ 6 6.4	2.027	2.791	15.1	21.4
240438	2003 <i>WB</i> ₁₆₅		12 29.3	95°71'	0°9'/29.4	18	71722	2000 <i>GB</i> ₁₆₉		12 29.3	19°78'	7°3'/27.0	17
11 27	7												

EPHEMERIDES

12 29.3

12 29.3

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
35355	1997 <i>SB</i> ₂		12 29.3 319°21	3°2/28.9	18		75505	1999 <i>XC</i> ₁₉₂		12 29.3 289°84	4°4/28.6	18	
11 27	7 3.85	+28 24.8	1.257	2.113	17.3	18.7	11 27	7 3.74	+30 44.8	1.434	2.283	16.0	18.6
12 7	6 57.96	+28 59.9	1.188	2.108	12.8	18.4	12 7	6 57.86	+31 36.5	1.352	2.267	12.0	18.4
12 17	6 48.42	+29 32.9	1.142	2.103	7.7	18.2	12 17	6 48.44	+32 25.5	1.293	2.250	7.7	18.1
12 27	6 36.44	+29 57.1	1.120	2.099	3.4	17.9	12 27	6 36.50	+33 4.3	1.259	2.234	4.5	17.8
1 6	6 23.87	+30 7.8	1.124	2.095	5.8	18.0	1 6	6 23.73	+33 26.7	1.252	2.218	6.4	17.9
1 16	6 12.73	+30 4.1	1.153	2.091	11.0	18.3	1 16	6 12.05	+33 30.9	1.271	2.202	11.0	18.1
1 26	6 4.71	+29 49.1	1.205	2.087	15.9	18.6	1 26	6 3.22	+33 19.5	1.314	2.186	15.5	18.3
2 5	6 0.73	+29 27.6	1.276	2.083	20.0	18.8	2 5	5 58.28	+32 57.5	1.376	2.170	19.5	18.6
405640	2005 <i>TY</i> ₉₀		12 29.3 110°82	1°4/29.1	15		304162	2006 <i>PS</i> ₆		12 29.3 73°95	0°6/29.2	18	
11 27	7 1.26	+26 41.1	2.174	3.006	11.9	22.3	11 27	7 1.87	+23 10.8	1.725	2.566	14.1	20.5
12 7	6 54.57	+27 3.2	2.113	3.022	8.6	22.1	12 7	6 55.35	+23 39.9	1.672	2.585	10.2	20.3
12 17	6 45.82	+27 23.5	2.077	3.036	5.0	21.9	12 17	6 46.39	+24 10.9	1.643	2.605	5.8	20.1
12 27	6 35.89	+27 39.4	2.070	3.051	1.7	21.7	12 27	6 36.03	+24 40.3	1.641	2.624	1.2	19.8
1 6	6 25.82	+27 48.8	2.093	3.065	3.5	21.9	1 6	6 25.55	+25 5.1	1.669	2.643	3.7	20.1
1 16	6 16.67	+27 51.4	2.147	3.078	7.0	22.1	1 16	6 16.21	+25 24.1	1.725	2.662	8.0	20.4
1 26	6 9.37	+27 48.3	2.227	3.092	10.3	22.3	1 26	6 9.10	+25 37.7	1.808	2.681	11.8	20.6
2 5	6 4.48	+27 41.3	2.331	3.105	13.0	22.6	2 5	6 4.81	+25 47.0	1.912	2.700	15.0	20.9
459714	2013 <i>PY</i> ₄₀		12 29.3 27°86	2°5/29.5	17		267847	2003 <i>UH</i> ₂₃₆		12 29.3 346°36	8°5/27.6	18	
11 27	6 56.82	+16 29.5	2.108	2.940	12.3	21.8	11 27	7 1.78	+42 36.7	1.744	2.568	14.7	19.6
12 7	6 51.36	+16 7.2	2.037	2.943	9.1	21.6	12 7	6 56.23	+43 55.0	1.675	2.560	12.0	19.4
12 17	6 44.02	+15 50.1	1.991	2.946	5.6	21.4	12 17	6 47.37	+45 0.3	1.630	2.552	9.6	19.2
12 27	6 35.55	+15 38.6	1.973	2.950	2.7	21.2	12 27	6 36.27	+45 44.0	1.609	2.546	8.5	19.1
1 6	6 26.91	+15 32.6	1.985	2.954	3.9	21.3	1 6	6 24.58	+46 0.5	1.615	2.540	9.4	19.2
1 16	6 19.04	+15 31.9	2.025	2.958	7.3	21.5	1 16	6 14.09	+45 49.5	1.645	2.534	11.8	19.3
1 26	6 12.81	+15 35.9	2.092	2.962	10.6	21.7	1 26	6 6.38	+45 15.3	1.698	2.530	14.6	19.5
2 5	6 8.76	+15 44.0	2.182	2.967	13.5	21.9	2 5	6 2.33	+44 25.0	1.770	2.527	17.2	19.7
53718	2000 <i>EB</i> ₁₇		12 29.3 275°01	1°7/29.1	18		14806	1981 <i>EV</i> ₂₅		12 29.3 66°57	4°9/30.1	18 R	
11 27	7 2.99	+26 12.5	1.568	2.414	15.0	19.8	11 27	6 58.86	+10 5.6	1.764	2.586	14.7	17.9
12 7	6 56.88	+26 33.0	1.482	2.397	11.1	19.5	12 7	6 52.98	+9 48.8	1.709	2.603	11.2	17.7
12 17	6 47.66	+26 53.3	1.418	2.380	6.5	19.2	12 17	6 44.98	+9 44.8	1.677	2.620	7.7	17.6
12 27	6 36.30	+27 9.1	1.382	2.363	2.0	18.9	12 27	6 35.76	+9 54.2	1.672	2.637	5.1	17.4
1 6	6 24.26	+27 17.0	1.373	2.346	4.6	19.0	1 6	6 26.44	+10 16.2	1.695	2.654	5.8	17.5
1 16	6 13.18	+27 16.0	1.391	2.328	9.6	19.3	1 16	6 18.11	+10 48.6	1.745	2.672	8.8	17.7
1 26	6 4.57	+27 7.8	1.435	2.311	14.2	19.5	1 26	6 11.71	+11 28.6	1.822	2.689	12.1	18.0
2 5	5 59.36	+26 55.1	1.499	2.293	18.1	19.7	2 5	6 7.80	+12 13.0	1.920	2.706	15.0	18.2
96480	1998 <i>HN</i> ₁₃₉		12 29.3 83°34	0°7/29.4	18		170960	2005 <i>CN</i> ₁		12 29.3 193°00	4°0/30.3	18	
11 27	7 4.99	+19 34.4	1.398	2.242	16.6	18.7	11 27	6 59.65	+10 4.1	2.079	2.890	13.1	20.6
12 7	6 57.93	+20 6.5	1.350	2.264	12.0	18.5	12 7	6 53.52	+10 13.7	1.999	2.889	10.1	20.4
12 17	6 47.97	+20 45.1	1.324	2.286	6.9	18.2	12 17	6 45.34	+10 35.5	1.944	2.887	6.8	20.2
12 27	6 36.32	+21 26.2	1.325	2.307	1.5	17.9	12 27	6 35.86	+11 9.3	1.917	2.885	4.2	20.0
1 6	6 24.56	+22 5.8	1.354	2.328	4.2	18.2	1 6	6 26.04	+11 53.4	1.920	2.882	4.9	20.0
1 16	6 14.26	+22 41.2	1.410	2.349	9.2	18.5	1 16	6 16.92	+12 45.2	1.952	2.879	8.0	20.2
1 26	6 6.66	+23 11.8	1.491	2.369	13.6	18.8	1 26	6 9.45	+13 41.8	2.012	2.876	11.3	20.4
2 5	6 2.39	+23 37.7	1.593	2.389	17.1	19.1	2 5	6 4.26	+14 40.1	2.095	2.872	14.2	20.6
131334	2001 <i>HD</i> ₃₄		12 29.3 208°71	1°8/29.5	18		75986	2000 <i>DO</i> ₃		12 29.3 328°02	4°1/28.5	18	
11 27	6 56.64	+16 44.1	2.879	3.698	9.7	21.2	11 27	6 59.27	+32 44.8	1.928	2.767	12.9	19.0
12 7	6 50.88	+16 33.1	2.792	3.692	7.2	21.0	12 7	6 53.77	+33 30.1	1.849	2.756	9.7	18.8
12 17	6 43.65	+16 26.0	2.732	3.686	4.4	20.8	12 17	6 45.71	+34 10.6	1.794	2.746	6.4	18.6
12 27	6 35.51	+16 22.5	2.702	3.679	2.0	20.6	12 27	6 35.94	+34 41.0	1.766	2.736	4.2	18.4
1 6	6 27.16	+16 22.4	2.703	3.672	3.0	20.7	1 6	6 25.71	+34 57.7	1.766	2.727	5.5	18.5
1 16	6 19.33	+16 25.4	2.735	3.664	5.8	20.9	1 16	6 16.36	+34 59.7	1.795	2.718	8.8	18.6
1 26	6 12.69	+16 31.0	2.795	3.656	8.6	21.0	1 26	6 9.09	+34 48.8	1.848	2.709	12.2	18.8
2 5	6 7.73	+16 38.9	2.880	3.648	10.9	21.2	2 5	6 4.68	+34 28.8	1.923	2.701	15.3	19.0
304891	2007 <i>RK</i> ₁₉₉		12 29.3 57°62	0°7/29.2	17		108432	2001 <i>KS</i> ₄₀		12 29.3 191°79	1°0/29.5	18	
11 27	7 4.50	+24 51.2	1.449	2.296	15.9	21.0	11 27	7 0.43	+18 9.2	2.218	3.044	11.9	20.2
12 7	6 57.35	+24 56.9	1.410	2.326	11.5	20.8	12 7	6 54.06	+18 41.1	2.137	3.042	8.8	20.0
12 17	6 47.49	+25 1.9	1.393	2.356	6.5	20.6	12 17	6 45.65	+19 19.2	2.082	3.040	5.1	19.7
12 27	6 36.20	+25 3.2	1.403	2.386	1.4	20.3	12 27	6 35.92	+20 1.1	2.057	3.038	1.4	19.5
1 6	6 25.06	+24 59.4	1.441	2.416	4.1	20.6	1 6	6 25.83	+20 44.2	2.062	3.035	3.2	19.6
1 16	6 15.50	+24 50.9	1.507	2.446	8.8	20.9	1 16	6 16.42	+21 26.2	2.098	3.032	7.0	19.8
1 26	6 8.61	+24 39.5	1.598	2.476	12.9	21.2	1 26	6 8.63	+22 5.7	2.161	3.028	10.5	20.0
2 5	6 4.91	+24 27.3	1.709	2.505	16.2	21.5	2 5	6 3.12	+22 41.9	2.249	3.024	13.4	20.2
252716	2002 <i>CT</i> ₁₇₃		12 29.3 347°70	9°0/31.7	17		335302	2005 <i>QN</i> ₁₃		12 29.3 91°37	1°5/29.2	18	
11 27	6 54.85	+0 6.7	1.562	2.365	17.2	19.4	11 27	7 6.57	+26 30.4	1.551	2.392	15.4	20.9
12 7	6 50.55	+0 5.4	1.488	2.356	14.3	19.2	12 7	6 58.88	+26 42.4	1.502	2.414	11.2	20.7
12 17	6 43.86	+0 7.5	1.434	2.349	11.4	19.0	12 17	6 48.42	+26 51.9	1.476	2.437	6.4	20.5
12 27	6 35.59	+0 48.5	1.404	2.342	9.3	18.9	12 27	6 36.41	+26 55.3	1.477	2.459	1.8	20.2
1 6	6 26.89	+1 57.0	1.399	2.336	9.4	18.9	1 6	6 24.41	+26 50.9	1.507	2.480	4.2	20.4
1 16	6 19.00	+3 28.7	1.419	2.332	11.6	19.0	1 16	6 13.92	+26 39.2	1.566	2.501	8.8	20.8
1 26	6 13.06	+5 16.4	1.463	2.328	14.7	19.2	1 26	6 6.08	+26 22.7	1.650	2.522	12.8	21.1
2 5	6 9.83	+7 12.0	1.529	2.325	17.7	19.4	2 5	6 1.49	+26 4.3	1.755	2.542	16.2	21.3
38064	1999 <i>FZ</i> ₁₀		12 29.3 112°91	3°4/28.9	18		244479	2002 <i>SA</i> ₂₆		12 29.3 126°44	0°4/29.2	18	
11 27	7 8.62	+30											

EPHEMERIDES

12 29.3

12 29.3

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
328535	2009 <i>RL</i> ₁₈		12 29.3	62°10'	0°5'/29.4	17	9466	Shishir		12 29.3	68°65'	4°2'/29.8	18
11 27	6 59.99	+20 57.3	1.912	2.749	13.1	21.0	11 27	7 3.19	+14 17.0	1.319	2.161	17.5	17.5
12 7	6 53.69	+21 9.1	1.863	2.774	9.4	20.8	12 7	6 56.60	+13 52.1	1.272	2.181	13.1	17.3
12 17	6 45.33	+21 23.9	1.839	2.799	5.4	20.6	12 17	6 47.20	+13 38.6	1.247	2.201	8.3	17.1
12 27	6 35.83	+21 39.7	1.842	2.825	1.1	20.3	12 27	6 36.21	+13 36.9	1.247	2.222	4.5	16.9
1 6	6 26.30	+21 54.7	1.876	2.850	3.3	20.6	1 6	6 25.20	+13 46.2	1.274	2.242	5.8	17.0
1 16	6 17.83	+22 8.1	1.938	2.875	7.3	20.9	1 16	6 15.66	+14 4.6	1.327	2.262	10.1	17.3
1 26	6 11.29	+22 19.6	2.027	2.900	10.8	21.1	1 26	6 8.78	+14 29.9	1.404	2.282	14.3	17.6
2 5	6 7.22	+22 29.6	2.139	2.926	13.6	21.4	2 5	6 5.14	+14 59.6	1.501	2.303	17.8	17.9
24624	1980 <i>FH</i> ₄		12 29.3	216°85'	0°6'/29.4	18	181127	2005 <i>QZ</i> ₁₂₄		12 29.3	292°59'	2°7'/28.9	17
11 27	7 3.40	+21 9.8	1.808	2.643	13.8	20.2	11 27	7 1.24	+29 59.6	1.930	2.768	13.0	20.4
12 7	6 56.64	+21 15.8	1.726	2.635	10.2	19.9	12 7	6 55.01	+30 23.3	1.857	2.766	9.6	20.2
12 17	6 47.29	+21 24.8	1.667	2.628	5.9	19.7	12 17	6 46.31	+30 42.9	1.808	2.765	5.9	20.0
12 27	6 36.25	+21 35.0	1.637	2.619	1.3	19.3	12 27	6 36.08	+30 54.5	1.787	2.764	2.9	19.8
1 6	6 24.76	+21 44.3	1.636	2.610	3.7	19.5	1 6	6 25.53	+30 55.8	1.795	2.763	4.5	19.9
1 16	6 14.16	+21 51.9	1.664	2.600	8.3	19.8	1 16	6 15.96	+30 46.6	1.831	2.762	8.2	20.1
1 26	6 5.65	+21 58.0	1.719	2.590	12.5	20.0	1 26	6 8.49	+30 29.0	1.894	2.761	11.7	20.3
2 5	6 0.01	+22 3.4	1.796	2.579	16.0	20.2	2 5	6 3.79	+30 6.1	1.979	2.760	14.8	20.5
225099	2008 <i>DM</i> ₃₂		12 29.3	174°33'	1°5'/29.1	18	376558	2013 <i>PQ</i> ₃		12 29.3	94°71'	4°7'/30.1	18
11 27	7 5.42	+26 17.2	1.870	2.703	13.5	21.7	11 27	6 55.96	+ 8 14.7	2.347	3.154	12.0	21.3
12 7	6 58.01	+26 41.2	1.797	2.706	9.9	21.5	12 7	6 50.57	+ 7 52.8	2.278	3.160	9.3	21.1
12 17	6 48.00	+27 4.0	1.749	2.709	5.7	21.2	12 17	6 43.54	+ 7 41.7	2.233	3.167	6.7	21.0
12 27	6 36.37	+27 21.8	1.730	2.711	1.8	21.0	12 27	6 35.54	+ 7 42.4	2.217	3.174	4.9	20.9
1 6	6 24.42	+27 32.0	1.740	2.712	4.0	21.1	1 6	6 27.38	+ 7 54.8	2.230	3.181	5.3	20.9
1 16	6 13.50	+27 34.0	1.780	2.712	8.2	21.4	1 16	6 19.88	+ 8 17.7	2.271	3.188	7.6	21.0
1 26	6 4.79	+27 29.2	1.847	2.712	12.0	21.6	1 26	6 13.79	+ 8 49.2	2.340	3.195	10.2	21.2
2 5	5 59.01	+27 20.2	1.935	2.711	15.3	21.8	2 5	6 9.60	+ 9 26.6	2.431	3.201	12.7	21.4
132985	2002 <i>TV</i> ₁₉₈		12 29.3	149°42'	2°0'/29.3	18	195657	Zhuangqinging		12 29.3	136°59'	0°8'/29.4	17
11 27	7 1.91	+18 57.4	2.136	2.962	12.3	19.7	11 27	6 58.41	+21 19.3	2.412	3.241	11.0	20.8
12 7	6 54.97	+18 22.0	2.065	2.969	9.1	19.5	12 7	6 52.35	+21 1.9	2.338	3.246	8.0	20.6
12 17	6 46.05	+17 48.8	2.020	2.976	5.4	19.3	12 17	6 44.55	+20 45.5	2.291	3.250	4.6	20.4
12 27	6 35.98	+17 18.3	2.004	2.983	2.2	19.1	12 27	6 35.73	+20 29.7	2.273	3.255	1.2	20.1
1 6	6 25.80	+16 51.2	2.018	2.989	3.7	19.3	1 6	6 26.77	+20 14.4	2.285	3.259	2.9	20.3
1 16	6 16.51	+16 28.2	2.063	2.994	7.3	19.5	1 16	6 18.54	+19 59.9	2.328	3.263	6.4	20.5
1 26	6 9.00	+16 10.1	2.135	2.999	10.7	19.7	1 26	6 11.85	+19 46.8	2.399	3.266	9.5	20.7
2 5	6 3.83	+15 56.9	2.231	3.004	13.6	19.9	2 5	6 7.20	+19 35.5	2.493	3.270	12.2	20.9
486367	2013 <i>DL</i> ₃		12 29.3	189°78'	1°3'/29.1	18	431670	2008 <i>CJ</i> ₁₁₂		12 29.3	254°44'	1°2'/29.1	18
11 27	7 1.76	+26 45.9	2.093	2.926	12.3	21.9	11 27	7 3.81	+24 45.4	1.495	2.341	15.6	21.7
12 7	6 55.14	+26 57.0	2.016	2.925	9.0	21.7	12 7	6 57.52	+25 10.0	1.416	2.331	11.5	21.4
12 17	6 46.29	+27 6.0	1.964	2.924	5.2	21.4	12 17	6 48.07	+25 36.2	1.359	2.321	6.6	21.1
12 27	6 36.05	+27 10.5	1.942	2.923	1.6	21.2	12 27	6 36.46	+25 59.5	1.329	2.311	1.7	20.7
1 6	6 25.54	+27 8.7	1.949	2.921	3.6	21.3	1 6	6 24.22	+26 16.4	1.326	2.300	4.5	20.9
1 16	6 15.91	+27 0.6	1.986	2.919	7.4	21.6	1 16	6 13.05	+26 25.3	1.351	2.289	9.7	21.2
1 26	6 8.18	+26 47.4	2.050	2.916	11.0	21.8	1 26	6 4.47	+26 27.3	1.401	2.278	14.4	21.4
2 5	6 2.99	+26 31.5	2.137	2.914	14.0	22.0	2 5	5 59.36	+26 24.8	1.470	2.266	18.3	21.7
77033	2001 <i>CJ</i> ₃₀		12 29.3	157°57'	1°9'/28.9	18	433419	2013 <i>TO</i> ₆₃		12 29.3	134°43'	2°5'/29.0	18
11 27	7 5.32	+25 37.4	1.664	2.503	14.6	19.5	11 27	7 7.72	+28 18.8	1.607	2.443	15.2	21.7
12 7	6 58.22	+26 24.1	1.597	2.508	10.7	19.3	12 7	6 59.92	+28 48.0	1.546	2.456	11.1	21.5
12 17	6 48.25	+27 11.5	1.553	2.513	6.2	19.0	12 17	6 49.16	+29 13.7	1.510	2.469	6.6	21.3
12 27	6 36.44	+27 54.5	1.537	2.518	2.1	18.8	12 27	6 36.61	+29 31.0	1.501	2.480	2.7	21.0
1 6	6 24.23	+28 28.6	1.551	2.522	4.4	19.0	1 6	6 23.87	+29 36.8	1.521	2.491	4.7	21.2
1 16	6 13.15	+28 51.9	1.593	2.526	8.9	19.2	1 16	6 12.50	+29 31.0	1.569	2.501	9.1	21.5
1 26	6 4.51	+29 5.3	1.661	2.529	13.0	19.5	1 26	6 3.81	+29 16.6	1.643	2.510	13.2	21.7
2 5	5 59.08	+29 11.3	1.750	2.531	16.4	19.7	2 5	5 58.49	+28 57.4	1.739	2.519	16.5	22.0
430408	1995 <i>MX</i> ₆		12 29.3	257°21'	4°9'/29.9	18	416042	2002 <i>ED</i> ₁₆₄		12 29.3	159°25'	5°1'/30.4	17
11 27	7 1.03	+11 45.8	1.456	2.290	16.6	21.0	11 27	6 56.80	+ 6 47.4	2.233	3.036	12.6	21.2
12 7	6 55.26	+11 32.1	1.382	2.285	12.7	20.7	12 7	6 51.29	+ 6 37.4	2.159	3.038	10.0	21.0
12 17	6 46.64	+11 32.1	1.329	2.279	8.5	20.5	12 17	6 44.01	+ 6 40.4	2.109	3.040	7.2	20.9
12 27	6 36.15	+11 46.6	1.302	2.273	5.1	20.3	12 27	6 35.64	+ 6 57.2	2.086	3.042	5.3	20.7
1 6	6 25.17	+12 14.7	1.302	2.268	6.2	20.3	1 6	6 27.04	+ 7 27.1	2.092	3.043	5.7	20.8
1 16	6 15.19	+12 54.0	1.328	2.262	10.3	20.5	1 16	6 19.09	+ 8 8.4	2.128	3.044	8.0	20.9
1 26	6 7.54	+13 41.1	1.379	2.256	14.6	20.8	1 26	6 12.61	+ 8 58.2	2.189	3.045	10.8	21.1
2 5	6 3.04	+14 32.4	1.450	2.250	18.4	21.0	2 5	6 8.16	+ 9 53.2	2.275	3.046	13.4	21.3
377808	2006 <i>AN</i> ₁₀₂		12 29.3	206°36'	3°1'/28.8	18	111824	2002 <i>DS</i> ₃		12 29.3	296°90'	15°4'/23.4	18
11 27	7 0.29	+35 5.2	3.157	3.970	9.1	22.2	11 27	7 15.58	+45 13.3	1.118	1.948	20.8	18.8
12 7	6 53.59	+35 26.8	3.071	3.963	6.9	22.0	12 7	7 9.30	+48 49.2	1.065	1.943	17.9	18.6
12 17	6 45.23	+35 42.5	3.012	3.956	4.6	21.9	12 17	6 56.58	+52 10.9	1.033	1.937	15.8	18.5
12 27	6 35.84	+35 49.6	2.984	3.949	3.2	21.8	12 27	6 38.32	+54 53.2	1.025	1.932	15.5	18.4
1 6	6 26.23	+35 46.4	2.986	3.941	3.9	21.8	1 6	6 17.46	+56 37.2	1.039	1.927	17.2	18.5
1 16	6 17.22	+35 33.1	3.019	3.932	6.1	21.9	1 16	5 58.32	+57 18.5	1.073	1.922	19.9	18.7
1 26	6 9.58	+35 11.1	3.081	3.923	8.4	22.1	1 26	5 44.81	+57 8.5	1.125	1.918	22.9	18.9
2 5	6 3.83	+34 43.0	3.167	3.913	10.5	22.2	2 5	5 38.72	+56 25.0	1.189	1.913	25.6	19.1
101318	1998 <i>SJ</i> ₁₅₁		12 29.3	98°70'	2°9'/28.9	18	145634	2516 <i>P-L</i>		12 29.3	66°20'	5°5'/28.8	18
11 27	7 4.15	+30 15.7											

EPHEMERIDES

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
137979	2000 <i>CG</i> ₄₇		12 29.3 232°18	2°8/29.3 18			489489	2007 <i>GN</i> ₅₉		12 29.3 214°59	2°2/28.9 17		
11 27	7 4.17	+31 50.4	1.921	2.753	13.2	19.5	11 27	6 59.87	+30 10.6	2.725	3.549	10.0	23.0
12 7	6 57.11	+31 46.2	1.843	2.749	9.9	19.3	12 7	6 53.51	+30 36.4	2.639	3.542	7.4	22.8
12 17	6 47.50	+31 34.4	1.789	2.745	6.1	19.0	12 17	6 45.31	+30 59.1	2.579	3.534	4.5	22.6
12 27	6 36.32	+31 11.9	1.764	2.740	3.0	18.8	12 27	6 35.94	+31 15.7	2.550	3.526	2.3	22.4
1 6	6 24.91	+30 37.8	1.768	2.736	4.5	18.9	1 6	6 26.29	+31 24.3	2.551	3.517	3.5	22.5
1 16	6 14.60	+29 53.6	1.801	2.731	8.2	19.1	1 16	6 17.24	+31 24.4	2.583	3.508	6.4	22.7
1 26	6 6.53	+29 3.1	1.861	2.727	11.9	19.3	1 26	6 9.66	+31 17.1	2.643	3.498	9.2	22.8
2 5	6 1.37	+28 10.7	1.943	2.722	15.1	19.6	2 5	6 4.13	+31 4.4	2.728	3.488	11.7	23.0
414012	2007 <i>GT</i> ₇₄		12 29.3 186°23	0°9/29.1 18			269926	2000 <i>NR</i> ₂₈		12 29.3 159°95	1°0/29.5 18		
11 27	6 58.91	+25 30.8	2.464	3.294	10.7	21.9	11 27	7 2.68	+19 14.7	2.252	3.074	11.9	22.3
12 7	6 52.83	+25 48.2	2.386	3.294	7.8	21.7	12 7	6 55.56	+19 28.1	2.180	3.083	8.7	22.1
12 17	6 44.90	+26 5.1	2.334	3.294	4.5	21.5	12 17	6 46.47	+19 45.4	2.133	3.091	5.0	21.9
12 27	6 35.83	+26 19.2	2.311	3.293	1.2	21.3	12 27	6 36.16	+20 4.9	2.117	3.098	1.4	21.7
1 6	6 26.52	+26 28.9	2.319	3.292	3.0	21.4	1 6	6 25.64	+20 24.8	2.131	3.105	3.2	21.8
1 16	6 17.89	+26 33.7	2.358	3.291	6.4	21.6	1 16	6 15.91	+20 44.0	2.177	3.110	6.9	22.1
1 26	6 10.79	+26 34.0	2.424	3.289	9.6	21.8	1 26	6 7.88	+21 2.0	2.251	3.115	10.2	22.3
2 5	6 5.81	+26 31.1	2.514	3.287	12.2	22.0	2 5	6 2.15	+21 18.8	2.348	3.118	13.1	22.5
296714	2009 <i>SL</i> ₃₃₅		12 29.3 173°36	1°3/29.5 18			439822	2015 <i>KX</i> ₇₁		12 29.3 128°41	3°2/29.9 18		
11 27	7 2.97	+19 38.0	1.584	2.424	15.2	21.9	11 27	7 2.43	+13 40.4	1.835	2.658	14.2	21.2
12 7	6 56.48	+19 39.2	1.513	2.425	11.1	21.6	12 7	6 55.62	+13 42.2	1.772	2.672	10.6	21.0
12 17	6 47.26	+19 45.4	1.466	2.427	6.5	21.4	12 17	6 46.56	+13 53.7	1.734	2.685	6.7	20.8
12 27	6 36.30	+19 54.8	1.446	2.427	1.8	21.1	12 27	6 36.18	+14 14.1	1.724	2.698	3.5	20.7
1 6	6 24.99	+20 5.8	1.454	2.428	4.1	21.2	1 6	6 25.61	+14 41.7	1.743	2.711	4.6	20.8
1 16	6 14.77	+20 17.2	1.490	2.428	8.9	21.5	1 16	6 16.03	+15 14.5	1.791	2.722	8.2	21.0
1 26	6 6.90	+20 28.7	1.552	2.428	13.3	21.8	1 26	6 8.44	+15 50.5	1.866	2.733	11.8	21.3
2 5	6 2.10	+20 40.5	1.634	2.428	16.9	22.0	2 5	6 3.45	+16 27.7	1.963	2.744	14.9	21.5
463844	2014 <i>TV</i> ₈₄		12 29.3 228°80	1°7/28.9 18			518007	2015 <i>VQ</i> ₄₁		12 29.3 148°47	0°1/29.3 18		
11 27	6 58.47	+26 57.1	2.527	3.357	10.5	21.2	11 27	7 1.49	+21 29.3	2.397	3.221	11.2	22.0
12 7	6 52.59	+27 36.8	2.444	3.352	7.7	21.0	12 7	6 54.68	+22 8.4	2.326	3.232	8.1	21.8
12 17	6 44.82	+28 16.0	2.388	3.346	4.5	20.8	12 17	6 45.96	+22 50.4	2.282	3.242	4.6	21.6
12 27	6 35.83	+28 51.8	2.361	3.340	1.8	20.6	12 27	6 36.07	+23 32.5	2.269	3.251	0.9	21.4
1 6	6 26.50	+29 21.4	2.365	3.334	3.4	20.7	1 6	6 25.93	+24 11.9	2.286	3.260	2.9	21.6
1 16	6 17.77	+29 43.5	2.399	3.328	6.6	20.9	1 16	6 16.52	+24 46.9	2.335	3.268	6.5	21.8
1 26	6 10.52	+29 58.2	2.461	3.322	9.6	21.1	1 26	6 8.70	+25 16.9	2.413	3.275	9.7	22.0
2 5	6 5.37	+30 6.8	2.547	3.315	12.2	21.3	2 5	6 3.05	+25 42.2	2.515	3.282	12.4	22.2
154192	2002 <i>GT</i> ₁₄₀		12 29.3 184°98	1°9/29.6 18			33171	1998 <i>EF</i> ₁₄		12 29.3 60°59	0°1/29.3 18		
11 27	6 57.55	+16 54.4	2.478	3.301	10.9	20.8	11 27	6 59.48	+21 45.1	1.852	2.693	13.3	18.5
12 7	6 51.75	+16 49.1	2.399	3.301	8.1	20.7	12 7	6 53.60	+22 1.7	1.789	2.702	9.7	18.3
12 17	6 44.24	+16 48.5	2.346	3.301	4.9	20.5	12 17	6 45.47	+22 21.1	1.750	2.711	5.5	18.0
12 27	6 35.71	+16 52.2	2.322	3.300	2.1	20.3	12 27	6 35.98	+22 41.1	1.738	2.721	1.1	17.7
1 6	6 26.96	+16 59.5	2.329	3.299	3.3	20.4	1 6	6 26.28	+22 59.6	1.756	2.731	3.4	17.9
1 16	6 18.84	+17 9.6	2.366	3.298	6.4	20.6	1 16	6 17.54	+23 15.3	1.803	2.741	7.6	18.2
1 26	6 12.12	+17 22.1	2.431	3.297	9.5	20.7	1 26	6 10.77	+23 28.2	1.875	2.751	11.4	18.5
2 5	6 7.35	+17 36.4	2.520	3.295	12.1	20.9	2 5	6 6.60	+23 38.7	1.971	2.761	14.5	18.7
516580	2007 <i>EE</i> ₁₂₈		12 29.3 280°04	1°0/29.4 18			2370	van Altena		12 29.3 113°95	4°0/28.8 18		
11 27	7 1.51	+20 35.9	1.536	2.382	15.3	21.9	11 27	7 4.41	+34 4.5	2.112	2.937	12.5	17.7
12 7	6 55.72	+20 37.3	1.452	2.368	11.3	21.6	12 7	6 57.08	+34 41.2	2.054	2.953	9.4	17.5
12 17	6 47.00	+20 43.0	1.392	2.353	6.6	21.3	12 17	6 47.40	+35 10.5	2.020	2.968	6.2	17.4
12 27	6 36.29	+20 51.3	1.357	2.339	1.6	20.9	12 27	6 36.33	+35 27.9	2.015	2.983	4.1	17.3
1 6	6 24.98	+21 0.4	1.350	2.325	4.2	21.1	1 6	6 25.13	+35 31.0	2.039	2.997	5.2	17.4
1 16	6 14.61	+21 9.0	1.371	2.310	9.4	21.3	1 16	6 15.02	+35 20.0	2.093	3.011	8.1	17.6
1 26	6 6.58	+21 17.2	1.416	2.296	14.1	21.6	1 26	6 7.05	+34 57.9	2.173	3.025	11.1	17.8
2 5	6 1.77	+21 25.5	1.481	2.282	18.0	21.8	2 5	6 1.82	+34 28.6	2.276	3.038	13.7	18.0
342082	2008 <i>SY</i> ₄₀		12 29.3 41°03	2°6/29.1 18			143666	2003 <i>SR</i> ₁₀₉		12 29.3 43°01	4°5/29.1 18		
11 27	7 3.05	+27 41.7	1.228	2.088	17.4	20.4	11 27	7 6.11	+32 19.9	1.212	2.066	18.0	19.2
12 7	6 57.00	+28 10.0	1.183	2.105	12.7	20.1	12 7	6 59.56	+32 41.9	1.157	2.073	13.4	19.0
12 17	6 47.64	+28 35.2	1.160	2.122	7.5	19.9	12 17	6 49.27	+32 54.8	1.123	2.080	8.5	18.7
12 27	6 36.36	+28 52.2	1.161	2.141	2.9	19.7	12 27	6 36.71	+32 52.1	1.113	2.088	4.7	18.5
1 6	6 25.02	+28 57.6	1.188	2.160	5.2	19.9	1 6	6 23.95	+32 31.0	1.129	2.096	6.5	18.7
1 16	6 15.37	+28 51.7	1.240	2.180	10.2	20.2	1 16	6 13.01	+31 53.6	1.170	2.105	11.1	18.9
1 26	6 8.80	+28 37.5	1.316	2.200	14.6	20.5	1 26	6 5.49	+31 5.8	1.234	2.114	15.7	19.2
2 5	6 5.90	+28 18.7	1.411	2.221	18.3	20.8	2 5	6 2.05	+30 14.4	1.317	2.123	19.5	19.5
243024	2006 <i>UJ</i> ₂₀₇		12 29.3 163°02	4°5/29.2 18			21812	1999 <i>TZ</i> ₂₂		12 29.3 357°06	1°1/29.5 18		
11 27	7 6.16	+37 8.5	2.199	3.015	12.4	20.6	11 27	6 57.67	+19 38.0	1.840	2.681	13.3	19.2
12 7	6 58.33	+37 20.9	2.127	3.019	9.5	20.5	12 7	6 52.38	+19 45.4	1.767	2.680	9.8	19.0
12 17	6 48.10	+37 22.9	2.081	3.023	6.5	20.3	12 17	6 44.84	+19 57.5	1.718	2.679	5.7	18.8
12 27	6 36.45	+37 10.4	2.063	3.026	4.5	20.2	12 27	6 35.87	+20 13.0	1.696	2.678	1.6	18.5
1 6	6 24.68	+36 41.9	2.075	3.029	5.4	20.2	1 6	6 26.61	+20 30.0	1.703	2.678	3.6	18.6
1 16	6 14.05	+35 58.9	2.117	3.032	8.2	20.4	1 16	6 18.19	+20 47.3	1.739	2.678	7.8	18.9
1 26	6 5.61	+35 5.6	2.185	3.034	11.1	20.6	1 26	6 11.66	+21 4.1	1.800	2.678	11.6	19.1
2 5	5 59.98	+34 7.0	2.277	3.036	13.8	20.8	2 5	6 7.69	+21 20.2	1.884	2.679	14.9	19.3
214404	2005 <i>NS</i> ₆₇		12 29.3 107°71	1°4/29.0 18			261030	2005 <i>SJ</i> ₁₃₅		12 29.3 88°85	1°3/29.1 18		
11 27	7 1.70	+2											

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
117064	2004 <i>KM</i> ₅		12 29.3 315°77	4.3/29.5	18		517010	2012 <i>TN</i> ₂₉₉		12 29.3 35°21	5.0/28.7	18	
11 27	7 0.69	+14 45.6	1.422	2.265	16.5	19.4	11 27	7 3.67	+32 7.5	1.329	2.182	16.8	20.9
12 7	6 55.04	+14 6.5	1.350	2.260	12.5	19.2	12 7	6 57.66	+33 3.1	1.275	2.190	12.6	20.7
12 17	6 46.54	+13 36.0	1.300	2.255	8.0	18.9	12 17	6 48.19	+33 52.2	1.243	2.198	8.1	20.5
12 27	6 36.22	+13 15.8	1.276	2.250	4.6	18.7	12 27	6 36.56	+34 27.1	1.235	2.208	5.1	20.3
1 6	6 25.48	+13 6.8	1.278	2.246	6.0	18.8	1 6	6 24.61	+34 42.8	1.254	2.217	6.8	20.4
1 16	6 15.84	+13 8.8	1.307	2.241	10.3	19.0	1 16	6 14.22	+34 39.1	1.298	2.227	10.9	20.7
1 26	6 8.60	+13 20.6	1.359	2.237	14.7	19.2	1 26	6 6.91	+34 20.1	1.365	2.238	15.0	21.0
2 5	6 4.54	+13 40.0	1.432	2.234	18.5	19.5	2 5	6 3.43	+33 51.5	1.452	2.249	18.5	21.2
329693	2003 <i>UU</i> ₂₂₇		12 29.3 0°13	2.9/29.5	17		220031	2002 <i>QF</i> ₁₀₇		12 29.3 172°01	0.6/29.3	18	
11 27	6 57.13	+16 22.9	1.948	2.782	13.0	19.7	11 27	7 4.86	+24 29.0	1.630	2.470	14.8	21.4
12 7	6 51.79	+15 49.3	1.875	2.781	9.7	19.5	12 7	6 57.88	+24 34.5	1.560	2.472	10.8	21.1
12 17	6 44.40	+15 21.0	1.826	2.781	6.1	19.3	12 17	6 48.09	+24 39.9	1.513	2.474	6.2	20.8
12 27	6 35.78	+14 58.7	1.805	2.781	3.1	19.1	12 27	6 36.54	+24 42.2	1.493	2.476	1.3	20.5
1 6	6 26.95	+14 43.1	1.813	2.781	4.4	19.2	1 6	6 24.68	+24 39.6	1.503	2.477	4.0	20.7
1 16	6 18.93	+14 34.3	1.849	2.782	7.9	19.4	1 16	6 13.99	+24 32.0	1.540	2.477	8.8	21.0
1 26	6 12.66	+14 32.0	1.911	2.783	11.4	19.6	1 26	6 5.73	+24 21.0	1.603	2.477	13.1	21.3
2 5	6 8.74	+14 35.3	1.995	2.784	14.4	19.8	2 5	6 0.62	+24 8.8	1.688	2.477	16.6	21.5
146980	2002 <i>NV</i> ₄₉		12 29.3 135°01	0.5/29.4	18		471983	2013 <i>TG</i> ₁₄₃		12 29.3 68°85	5.1/28.6	16	
11 27	7 4.78	+20 30.6	1.720	2.554	14.5	20.3	11 27	7 6.75	+31 44.4	1.293	2.143	17.3	21.4
12 7	6 57.55	+20 54.1	1.657	2.567	10.5	20.1	12 7	6 59.93	+32 49.4	1.243	2.156	12.9	21.2
12 17	6 47.77	+21 22.0	1.619	2.579	6.0	19.9	12 17	6 49.49	+33 48.1	1.215	2.170	8.3	21.0
12 27	6 36.43	+21 51.3	1.608	2.591	1.3	19.6	12 27	6 36.82	+34 31.8	1.212	2.184	5.2	20.8
1 6	6 24.85	+22 19.0	1.628	2.602	3.7	19.8	1 6	6 23.86	+34 54.8	1.235	2.198	6.9	21.0
1 16	6 14.39	+22 43.5	1.676	2.612	8.3	20.1	1 16	6 12.62	+34 57.0	1.284	2.212	11.1	21.3
1 26	6 6.20	+23 4.4	1.750	2.621	12.3	20.3	1 26	6 4.66	+34 42.6	1.357	2.226	15.3	21.5
2 5	6 0.93	+23 22.2	1.847	2.630	15.6	20.6	2 5	6 0.69	+34 17.8	1.449	2.241	18.8	21.8
53332	1999 <i>JL</i> ₃₆		12 29.3 284°63	1°8/29.5	18		122428	2000 <i>QO</i> ₁₀₈		12 29.3 138°89	1°4/29.1	18	
11 27	6 58.80	+18 17.0	1.935	2.770	13.0	19.6	11 27	7 0.86	+26 28.2	2.249	3.081	11.6	20.5
12 7	6 53.24	+18 9.8	1.843	2.752	9.7	19.4	12 7	6 54.38	+26 54.3	2.180	3.089	8.4	20.3
12 17	6 45.39	+18 7.4	1.776	2.735	5.8	19.1	12 17	6 45.86	+27 19.2	2.137	3.097	4.9	20.1
12 27	6 36.00	+18 9.4	1.737	2.717	2.1	18.8	12 27	6 36.10	+27 40.0	2.123	3.104	1.6	19.9
1 6	6 26.15	+18 14.8	1.727	2.699	3.8	18.9	1 6	6 26.14	+27 54.7	2.140	3.111	3.4	20.0
1 16	6 16.98	+18 22.9	1.745	2.682	8.0	19.1	1 16	6 16.99	+28 2.5	2.186	3.118	6.9	20.3
1 26	6 9.59	+18 33.4	1.790	2.664	11.9	19.3	1 26	6 9.60	+28 4.1	2.260	3.124	10.2	20.5
2 5	6 4.72	+18 45.7	1.857	2.646	15.3	19.5	2 5	6 4.54	+28 1.3	2.357	3.130	12.9	20.7
457790	2009 <i>QE</i> ₂₀		12 29.3 17°66	19°7/6.8	17		35925	1999 <i>JP</i> ₁₀₄		12 29.3 264°85	6°7/30.3	18	
11 27	7 0.15	-16 15.9	0.985	1.744	27.9	20.4	11 27	6 59.24	+6 15.6	1.711	2.524	15.5	17.9
12 7	6 55.38	-16 57.7	0.935	1.746	25.3	20.2	12 7	6 53.69	+5 50.8	1.629	2.512	12.4	17.7
12 17	6 47.03	-16 45.5	0.897	1.748	22.8	20.1	12 17	6 45.71	+5 42.2	1.569	2.501	9.2	17.5
12 27	6 36.35	-15 28.1	0.874	1.752	20.6	19.9	12 27	6 36.11	+5 52.2	1.535	2.490	6.9	17.3
1 6	6 25.17	-13 4.2	0.869	1.756	19.7	19.9	1 6	6 26.03	+6 21.2	1.528	2.478	7.4	17.3
1 16	6 15.44	-9 43.2	0.883	1.761	20.4	20.0	1 16	6 16.71	+7 7.1	1.547	2.466	10.3	17.5
1 26	6 8.82	-5 44.7	0.916	1.767	22.4	20.1	1 26	6 9.29	+8 6.0	1.592	2.454	13.8	17.7
2 5	6 6.20	-1 31.8	0.968	1.774	25.1	20.3	2 5	6 4.55	+9 13.0	1.658	2.442	17.1	17.8
264291	1998 <i>SD</i> ₃₇		12 29.3 240°58	5°0/28.4	18		88973	2001 <i>TA</i> ₅₉		12 29.3 204°77	1°6/29.1	17	
11 27	7 2.05	+37 31.6	2.299	3.119	11.8	20.2	11 27	7 0.95	+27 0.8	2.038	2.874	12.4	20.3
12 7	6 55.54	+38 17.3	2.223	3.115	9.1	20.0	12 7	6 54.69	+27 20.3	1.962	2.873	9.1	20.1
12 17	6 46.65	+38 54.8	2.172	3.110	6.6	19.8	12 17	6 46.15	+27 38.3	1.911	2.871	5.3	19.8
12 27	6 36.25	+39 19.0	2.149	3.105	5.1	19.7	12 27	6 36.17	+27 51.5	1.888	2.869	1.8	19.6
1 6	6 25.48	+39 26.8	2.155	3.101	6.0	19.8	1 6	6 25.89	+27 57.9	1.895	2.867	3.7	19.7
1 16	6 15.57	+39 18.0	2.189	3.096	8.4	19.9	1 16	6 16.47	+27 56.9	1.931	2.865	7.6	20.0
1 26	6 7.62	+38 55.2	2.250	3.091	11.1	20.1	1 26	6 8.96	+27 49.9	1.994	2.862	11.2	20.2
2 5	6 2.34	+38 22.5	2.333	3.086	13.6	20.3	2 5	6 4.04	+27 38.8	2.080	2.860	14.2	20.4
206514	2003 <i>UK</i> ₁₃₂		12 29.3 73°76	0°0/29.2	18		57155	2001 <i>QM</i> ₈		12 29.3 71°42	2°5/29.2	18	
11 27	7 4.99	+23 33.6	1.659	2.497	14.7	19.8	11 27	7 5.40	+28 51.8	1.428	2.275	16.1	18.7
12 7	6 57.48	+23 31.6	1.616	2.528	10.6	19.6	12 7	6 58.44	+29 2.8	1.374	2.289	11.8	18.5
12 17	6 47.55	+23 29.9	1.596	2.558	6.0	19.4	12 17	6 48.41	+29 8.9	1.342	2.302	7.0	18.3
12 27	6 36.37	+23 26.3	1.605	2.588	1.1	19.2	12 27	6 36.60	+29 5.9	1.336	2.316	2.7	18.0
1 6	6 25.30	+23 19.8	1.643	2.617	3.7	19.4	1 6	6 24.68	+28 52.0	1.358	2.330	4.9	18.2
1 16	6 15.62	+23 10.7	1.710	2.647	8.1	19.7	1 16	6 14.31	+28 28.4	1.407	2.344	9.5	18.5
1 26	6 8.35	+23 0.5	1.802	2.675	11.9	20.0	1 26	6 6.79	+27 58.5	1.481	2.358	13.8	18.8
2 5	6 3.97	+22 50.5	1.917	2.704	15.0	20.3	2 5	6 2.75	+27 26.6	1.575	2.371	17.3	19.1
198070	2004 <i>RQ</i> ₃₃₃		12 29.3 109°23	4°2/28.7	18		110803	2001 <i>UR</i> ₄₁		12 29.3 111°89	0°5/29.4	18	
11 27	7 7.71	+33 4.1	1.892	2.718	13.7	20.4	11 27	6 59.76	+20 57.6	1.973	2.809	12.8	20.4
12 7	6 59.63	+33 53.5	1.840	2.741	10.2	20.3	12 7	6 53.75	+21 10.0	1.903	2.814	9.3	20.2
12 17	6 48.91	+34 35.6	1.814	2.763	6.6	20.1	12 17	6 45.57	+21 25.7	1.858	2.818	5.3	19.9
12 27	6 36.65	+35 4.7	1.816	2.785	4.2	20.0	12 27	6 36.07	+21 42.8	1.841	2.823	1.2	19.6
1 6	6 24.29	+35 17.6	1.847	2.806	5.5	20.1	1 6	6 26.31	+21 59.4	1.854	2.828	3.3	19.8
1 16	6 13.24	+35 14.7	1.908	2.826	8.7	20.4	1 16	6 17.43	+22 14.4	1.895	2.833	7.4	20.1
1 26	6 4.63	+34 59.1	1.995	2.846	11.9	20.6	1 26	6 10.39	+22 27.5	1.964	2.837	11.1	20.3
2 5	5 59.10	+34 35.4	2.103	2.865	14.7	20.8	2 5	6 5.83	+22 38.9	2.055	2.842	14.1	20.5
199502	2006 <i>DH</i> ₁₁₀		12 29.3 216°38	2°6/28.8	18		148111	1999 <i>RF</i> ₂₀₉		12 29.3 103°47	1°4/29.4	18	
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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
460118	2014 <i>PE</i> ₂₉		12 29.3 152°73	1.8/29.1	17		43652	2002 <i>EQ</i> ₈₈		12 29.3 11°73	7°9/30.6	18	
11 27	7 0.96	+27 50.1	2.096	2.930	12.2	22.0	11 27	6 55.93	+3 14.0	1.759	2.565	15.4	18.9
12 7	6 54.61	+28 6.2	2.023	2.933	8.9	21.8	12 7	6 51.06	+2 33.6	1.694	2.567	12.6	18.7
12 17	6 46.06	+28 19.8	1.976	2.935	5.3	21.6	12 17	6 44.08	+2 11.1	1.650	2.569	9.8	18.6
12 27	6 36.16	+28 27.9	1.957	2.937	2.0	21.3	12 27	6 35.80	+2 9.6	1.631	2.572	8.0	18.5
1 6	6 26.02	+28 28.8	1.968	2.939	3.7	21.5	1 6	6 27.27	+2 29.7	1.639	2.576	8.3	18.5
1 16	6 16.77	+28 22.2	2.009	2.941	7.4	21.7	1 16	6 19.57	+3 9.4	1.672	2.580	10.5	18.6
1 26	6 9.41	+28 9.7	2.076	2.943	10.8	21.9	1 26	6 13.66	+4 4.7	1.730	2.584	13.3	18.8
2 5	6 4.57	+27 53.5	2.166	2.945	13.8	22.1	2 5	6 10.17	+5 10.2	1.809	2.589	16.0	19.0
515258	2012 <i>PF</i> ₃		12 29.3 50°07	3°8/29.8	18		302541	2002 <i>NL</i> ₄₄		12 29.3 78°61	1°4/29.4	18	
11 27	7 0.86	+14 33.0	1.350	2.195	17.0	21.6	11 27	7 3.05	+20 7.0	1.744	2.580	14.2	20.6
12 7	6 55.10	+14 21.7	1.294	2.205	12.7	21.3	12 7	6 56.04	+19 49.3	1.694	2.604	10.3	20.4
12 17	6 46.53	+14 22.0	1.261	2.217	8.0	21.1	12 17	6 46.78	+19 34.7	1.668	2.628	6.0	20.2
12 27	6 36.26	+14 33.5	1.252	2.228	4.1	20.9	12 27	6 36.30	+19 22.6	1.671	2.652	1.8	20.0
1 6	6 25.78	+14 54.7	1.270	2.240	5.4	21.0	1 6	6 25.84	+19 12.5	1.702	2.675	3.8	20.1
1 16	6 16.59	+15 23.4	1.314	2.252	9.9	21.3	1 16	6 16.60	+19 4.7	1.762	2.698	7.9	20.4
1 26	6 9.93	+15 56.9	1.382	2.265	14.2	21.6	1 26	6 9.54	+18 59.3	1.849	2.721	11.7	20.7
2 5	6 6.46	+16 32.9	1.471	2.278	17.8	21.9	2 5	6 5.19	+18 56.6	1.957	2.744	14.7	21.0
400672	2009 <i>OO</i> ₃		12 29.3 132°17	6°1/31.1	18		344089	1999 <i>JN</i> ₄₇		12 29.3 198°81	3°5/29.6	18	
11 27	6 57.66	+2 7.8	2.404	3.183	12.6	21.0	11 27	7 1.56	+14 49.6	1.937	2.761	13.5	20.8
12 7	6 51.78	+1 59.0	2.337	3.194	10.2	20.8	12 7	6 55.06	+14 16.3	1.858	2.758	10.2	20.6
12 17	6 44.27	+2 5.4	2.294	3.205	7.9	20.7	12 17	6 46.36	+13 49.2	1.805	2.756	6.5	20.4
12 27	6 35.81	+2 28.1	2.278	3.215	6.3	20.6	12 27	6 36.27	+13 29.4	1.779	2.752	3.7	20.2
1 6	6 27.19	+3 6.4	2.291	3.225	6.5	20.6	1 6	6 25.89	+13 17.3	1.783	2.748	4.8	20.3
1 16	6 19.23	+3 58.2	2.333	3.234	8.2	20.8	1 16	6 16.36	+13 13.2	1.816	2.744	8.3	20.5
1 26	6 12.65	+5 0.0	2.402	3.243	10.5	20.9	1 26	6 8.67	+13 16.3	1.875	2.739	11.9	20.7
2 5	6 7.98	+6 7.9	2.495	3.252	12.7	21.1	2 5	6 3.48	+13 25.7	1.957	2.734	15.1	20.9
355372	2007 <i>TD</i> ₃₃₁		12 29.3 132°52	0°5/29.4	18		484317	2007 <i>TV</i> ₁₂₀		12 29.3 9°08	9°1/29.8	18	
11 27	7 2.32	+21 44.4	2.102	2.931	12.4	21.6	11 27	6 57.37	+5 16.8	1.402	2.227	17.6	20.7
12 7	6 55.38	+21 42.1	2.037	2.944	9.0	21.4	12 7	6 52.50	+3 55.6	1.342	2.228	14.3	20.5
12 17	6 46.40	+21 41.4	1.997	2.957	5.1	21.2	12 17	6 45.06	+2 52.1	1.303	2.230	11.1	20.3
12 27	6 36.22	+21 40.8	1.987	2.969	1.1	20.9	12 27	6 36.02	+2 11.9	1.288	2.233	9.2	20.2
1 6	6 25.92	+21 39.4	2.007	2.981	3.2	21.1	1 6	6 26.72	+1 58.0	1.298	2.237	9.8	20.3
1 16	6 16.55	+21 36.8	2.057	2.992	7.1	21.4	1 16	6 18.50	+2 9.7	1.331	2.241	12.4	20.4
1 26	6 9.02	+21 33.7	2.134	3.002	10.5	21.6	1 26	6 12.51	+2 43.0	1.387	2.247	15.7	20.6
2 5	6 3.91	+21 30.8	2.235	3.012	13.4	21.8	2 5	6 9.44	+3 32.0	1.463	2.253	18.7	20.8
337459	2001 <i>RW</i> ₁₀₇		12 29.3 110°07	0°6/29.3	18		191905	2005 <i>CF</i> ₅₇		12 29.3 336°72	0°7/29.2	18	
11 27	7 5.26	+24 10.4	1.718	2.554	14.4	21.9	11 27	6 57.82	+24 39.5	1.934	2.777	12.7	20.4
12 7	6 57.86	+24 25.1	1.662	2.573	10.4	21.7	12 7	6 52.55	+24 51.4	1.856	2.770	9.3	20.2
12 17	6 47.92	+24 40.0	1.630	2.591	5.9	21.5	12 17	6 45.01	+25 3.6	1.802	2.764	5.3	19.9
12 27	6 36.51	+24 52.0	1.626	2.609	1.3	21.2	12 27	6 36.03	+25 13.9	1.775	2.758	1.2	19.6
1 6	6 25.01	+24 59.0	1.652	2.626	3.8	21.4	1 6	6 26.70	+25 20.3	1.778	2.752	3.5	19.8
1 16	6 14.75	+25 0.7	1.707	2.642	8.2	21.7	1 16	6 18.20	+25 22.3	1.809	2.746	7.6	20.0
1 26	6 6.84	+24 58.2	1.788	2.659	12.1	22.0	1 26	6 11.56	+25 20.4	1.866	2.742	11.4	20.2
2 5	6 1.89	+24 53.5	1.891	2.674	15.3	22.3	2 5	6 7.47	+25 15.8	1.945	2.737	14.6	20.5
505635	2014 <i>KG</i> ₁₀₂		12 29.3 158°85	13°6/28.0	17		285301	1998 <i>TU</i> ₁₉		12 29.3 64°74	2°1/29.1	18	
11 27	7 7.90	+2 6.9	1.170	1.980	21.3	21.9	11 27	7 1.94	+27 22.0	1.706	2.549	14.1	20.6
12 7	7 0.51	-0 36.6	1.115	1.984	17.9	21.7	12 7	6 55.71	+27 50.7	1.644	2.557	10.3	20.4
12 17	6 49.75	-3 0.4	1.081	1.987	15.0	21.5	12 17	6 46.84	+28 17.5	1.605	2.565	6.1	20.1
12 27	6 36.90	-4 51.7	1.069	1.990	13.6	21.4	12 27	6 36.37	+28 38.4	1.593	2.573	2.3	19.9
1 6	6 23.71	-6 1.7	1.082	1.993	14.5	21.5	1 6	6 25.65	+28 50.5	1.610	2.581	4.3	20.1
1 16	6 12.01	-6 28.4	1.117	1.994	17.1	21.6	1 16	6 16.06	+28 53.1	1.654	2.589	8.5	20.3
1 26	6 3.29	-6 16.6	1.172	1.996	20.3	21.9	1 26	6 8.76	+28 48.0	1.725	2.597	12.4	20.6
2 5	5 58.32	-5 36.0	1.242	1.997	23.2	22.1	2 5	6 4.44	+28 37.7	1.816	2.605	15.6	20.8
254810	2005 <i>QG</i> ₁₁₅		12 29.3 118°46	1°1/29.2	18		493149	2014 <i>TH</i> ₆₅		12 29.3 95°04	5°5/29.9	17	
11 27	7 0.78	+25 52.4	2.062	2.897	12.3	20.9	11 27	6 57.21	+7 27.7	2.239	3.044	12.6	20.9
12 7	6 54.44	+26 3.8	1.993	2.904	9.0	20.7	12 7	6 51.56	+6 45.2	2.174	3.053	9.9	20.8
12 17	6 45.94	+26 14.2	1.949	2.910	5.2	20.5	12 17	6 44.21	+6 13.7	2.132	3.061	7.3	20.6
12 27	6 36.15	+26 20.8	1.934	2.916	1.4	20.2	12 27	6 35.86	+5 55.3	2.119	3.070	5.6	20.5
1 6	6 26.15	+26 22.3	1.949	2.922	3.4	20.4	1 6	6 27.36	+5 50.6	2.134	3.079	6.1	20.6
1 16	6 17.07	+26 18.3	1.993	2.928	7.3	20.7	1 16	6 19.59	+5 59.1	2.177	3.087	8.2	20.7
1 26	6 9.88	+26 9.9	2.065	2.934	10.8	20.9	1 26	6 13.31	+5 16.9	2.247	3.096	10.8	20.9
2 5	6 5.17	+25 59.1	2.159	2.940	13.7	21.1	2 5	6 9.03	+6 47.2	2.339	3.104	13.3	21.1
55895	1998 <i>AP</i>		12 29.3 308°83	2°7/29.9	18		142182	2002 <i>RW</i> ₄₅		12 29.3 60°63	0°8/29.2	18	
11 27	6 57.66	+14 49.0	1.771	2.607	14.0	18.7	11 27	7 6.54	+23 40.3	1.217	2.071	18.0	19.7
12 7	6 52.61	+15 2.1	1.683	2.591	10.5	18.5	12 7	6 59.32	+24 5.4	1.180	2.100	12.9	19.5
12 17	6 45.14	+15 25.6	1.619	2.575	6.6	18.2	12 17	6 48.90	+24 31.8	1.165	2.129	7.3	19.3
12 27	6 36.04	+15 58.7	1.582	2.560	3.0	17.9	12 27	6 36.74	+24 55.0	1.176	2.158	1.6	19.0
1 6	6 26.39	+16 39.3	1.573	2.545	4.4	18.0	1 6	6 24.70	+25 11.6	1.213	2.187	4.6	19.3
1 16	6 17.44	+17 24.7	1.592	2.530	8.5	18.2	1 16	6 14.50	+25 20.8	1.276	2.217	9.8	19.7
1 26	6 10.35	+18 12.3	1.637	2.515	12.6	18.4	1 26	6 7.41	+25 24.4	1.363	2.246	14.3	20.0
2 5	6 5.91	+18 59.9	1.704	2.501	16.1	18.6	2 5	6 3.95	+25 24.5	1.470	2.275	17.9	20.4
375588	2008 <i>VK</i> ₁₉		12 29.3 174°91	4°9/29.3	18		45699	2000 <i>EO</i> ₁₉₉		12 29.3 47°82	6°2/29.8	18	
11 27	6 57.88	+8 3.7	2.777	3.57									

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
476509	2008 <i>GX</i> ₄₈		12 29.3 234°39'	4.8/28.9	18		104302	2000 <i>ED</i> ₁₇₈		12 29.3 2°27'	0.9/29.2	18	
11 27	7 6.84	+33 27.3	1.522	2.361	15.7	21.6	11 27	6 59.92	+23 25.4	1.152	2.018	17.8	19.5
12 7	6 59.90	+34 3.5	1.448	2.356	11.9	21.4	12 7	6 55.19	+23 52.8	1.091	2.017	13.1	19.2
12 17	6 49.54	+34 31.8	1.398	2.351	7.8	21.1	12 17	6 46.98	+24 24.2	1.051	2.016	7.5	18.9
12 27	6 36.94	+34 45.5	1.374	2.345	4.9	21.0	12 27	6 36.47	+24 54.9	1.034	2.016	1.6	18.5
1 6	6 23.82	+34 40.5	1.377	2.339	6.4	21.0	1 6	6 25.48	+25 20.5	1.042	2.018	4.9	18.7
1 16	6 12.05	+34 16.9	1.407	2.333	10.5	21.2	1 16	6 15.90	+25 38.9	1.075	2.020	10.7	19.1
1 26	6 3.18	+33 39.5	1.461	2.327	14.6	21.5	1 26	6 9.33	+25 50.3	1.130	2.023	15.8	19.4
2 5	5 58.07	+32 54.4	1.536	2.321	18.2	21.7	2 5	6 6.63	+25 56.5	1.204	2.027	20.0	19.6
274809	2008 <i>XQ</i> ₃₂		12 29.3 136°25'	0.5/29.3	18		372722	2009 <i>XN</i> ₂₁		12 29.3 130°10'	0.2/29.4	17	
11 27	6 58.07	+24 53.1	2.616	3.445	10.2	21.5	11 27	6 57.85	+20 39.6	2.441	3.270	10.9	20.8
12 7	6 52.12	+24 57.5	2.543	3.451	7.4	21.4	12 7	6 52.10	+21 8.3	2.367	3.275	7.9	20.6
12 17	6 44.51	+25 1.3	2.497	3.457	4.2	21.2	12 17	6 44.58	+21 40.4	2.320	3.280	4.5	20.4
12 27	6 35.93	+25 3.0	2.481	3.463	0.9	20.9	12 27	6 35.97	+22 13.9	2.302	3.285	0.9	20.1
1 6	6 27.19	+25 1.6	2.495	3.468	2.7	21.1	1 6	6 27.12	+22 46.6	2.315	3.289	2.8	20.3
1 16	6 19.13	+24 57.0	2.540	3.474	6.0	21.3	1 16	6 18.91	+23 16.8	2.358	3.294	6.3	20.5
1 26	6 12.50	+24 49.7	2.613	3.479	8.9	21.5	1 26	6 12.16	+23 43.9	2.430	3.298	9.4	20.7
2 5	6 7.82	+24 40.9	2.710	3.484	11.4	21.7	2 5	6 7.43	+24 7.8	2.525	3.302	12.1	20.9
81300	2000 <i>GW</i> ₂		12 29.3 97°28'	7.4/1.2	18		286922	2002 <i>PT</i> ₁₀₄		12 29.3 228°34'	7.4/29.3	17	
11 27	7 4.14	- 0 7.5	1.803	2.578	16.3	18.4	11 27	7 14.09	+46 46.8	2.309	3.089	13.0	21.4
12 7	6 56.76	+ 0 18.0	1.749	2.604	13.2	18.3	12 7	7 4.49	+47 7.9	2.222	3.076	10.8	21.3
12 17	6 47.22	+ 1 6.6	1.719	2.630	10.0	18.1	12 17	6 51.86	+47 11.8	2.159	3.063	8.7	21.1
12 27	6 36.44	+ 2 18.2	1.714	2.655	7.7	18.0	12 27	6 37.37	+46 51.9	2.123	3.050	7.4	21.0
1 6	6 25.58	+ 3 49.0	1.739	2.679	7.7	18.1	1 6	6 22.65	+46 5.6	2.117	3.035	7.9	21.0
1 16	6 15.77	+ 5 33.3	1.794	2.703	9.8	18.3	1 16	6 9.33	+44 54.8	2.139	3.020	9.9	21.1
1 26	6 7.98	+ 7 24.1	1.875	2.726	12.6	18.5	1 26	5 58.75	+43 25.9	2.189	3.005	12.3	21.2
2 5	6 2.77	+ 9 15.2	1.981	2.749	15.2	18.7	2 5	5 51.60	+41 47.0	2.261	2.988	14.7	21.4
385043	2012 <i>TC</i> ₃₂₃		12 29.3 104°80'	4.1/30.0	18		148263	2000 <i>FM</i> ₃₄		12 29.3 265°73'	0.4/29.4	18	
11 27	7 1.78	+12 19.1	1.638	2.465	15.4	20.8	11 27	7 0.62	+20 0.9	2.067	2.898	12.5	20.3
12 7	6 55.40	+12 10.3	1.578	2.478	11.6	20.6	12 7	6 54.64	+20 32.6	1.969	2.877	9.2	20.1
12 17	6 46.59	+12 13.3	1.541	2.490	7.6	20.4	12 17	6 46.31	+21 10.2	1.896	2.856	5.3	19.8
12 27	6 36.34	+12 28.0	1.531	2.502	4.4	20.2	12 27	6 36.35	+21 51.1	1.852	2.834	1.1	19.5
1 6	6 25.90	+12 53.2	1.548	2.514	5.4	20.3	1 6	6 25.78	+22 32.4	1.838	2.812	3.4	19.6
1 16	6 16.53	+13 26.6	1.594	2.526	9.0	20.5	1 16	6 15.76	+23 11.4	1.854	2.790	7.6	19.8
1 26	6 9.31	+14 5.5	1.665	2.537	12.8	20.8	1 26	6 7.43	+23 46.9	1.897	2.767	11.6	20.0
2 5	6 4.87	+14 47.3	1.758	2.548	16.0	21.0	2 5	6 1.59	+24 18.5	1.963	2.744	14.9	20.2
450576	2006 <i>PF</i> ₃		12 29.3 112°94'	3.9/29.2	18		426443	2013 <i>QK</i> ₄₆		12 29.3 16°93'	4.5/29.4	18	
11 27	7 6.35	+34 49.0	2.052	2.874	12.9	21.6	11 27	6 57.77	+12 9.0	2.174	2.993	12.4	20.3
12 7	6 58.49	+35 4.0	1.993	2.891	9.7	21.4	12 7	6 52.06	+11 10.9	2.101	2.994	9.5	20.1
12 17	6 48.24	+35 9.9	1.960	2.907	6.4	21.3	12 17	6 44.55	+10 19.7	2.053	2.996	6.6	19.9
12 27	6 36.64	+35 2.8	1.954	2.923	4.0	21.2	12 27	6 35.96	+ 9 37.6	2.034	2.997	4.6	19.8
1 6	6 25.01	+34 41.4	1.979	2.939	5.1	21.2	1 6	6 27.21	+ 9 6.1	2.044	2.999	5.4	19.9
1 16	6 14.62	+34 7.2	2.033	2.954	8.1	21.5	1 16	6 19.19	+ 8 46.1	2.082	3.001	8.0	20.0
1 26	6 6.51	+33 23.9	2.113	2.968	11.2	21.7	1 26	6 12.74	+ 8 37.1	2.147	3.003	11.0	20.2
2 5	6 1.23	+32 36.1	2.217	2.982	13.9	21.9	2 5	6 8.39	+ 8 37.5	2.235	3.006	13.6	20.4
24254	1999 <i>XB</i> ₁₂₂		12 29.3 18°91'	1.1/29.3	18		453206	2008 <i>GX</i> ₁₀₅		12 29.3 216°67'	1.3/29.1	17	
11 27	7 3.35	+23 48.5	1.472	2.319	15.7	17.0	11 27	7 0.26	+25 31.9	2.005	2.842	12.6	21.7
12 7	6 56.82	+22 50.1	1.406	2.322	11.5	16.8	12 7	6 54.27	+26 1.9	1.930	2.841	9.2	21.5
12 17	6 47.49	+21 48.7	1.364	2.326	6.6	16.5	12 17	6 46.00	+26 32.3	1.880	2.840	5.3	21.3
12 27	6 36.51	+20 45.2	1.348	2.330	1.7	16.2	12 27	6 36.26	+26 59.6	1.858	2.839	1.6	21.0
1 6	6 25.41	+19 42.2	1.360	2.334	4.3	16.4	1 6	6 26.19	+27 21.0	1.866	2.838	3.6	21.2
1 16	6 15.66	+18 43.1	1.400	2.339	9.3	16.7	1 16	6 16.94	+27 35.4	1.903	2.837	7.6	21.4
1 26	6 8.48	+17 51.2	1.465	2.345	13.7	17.0	1 26	6 9.59	+27 43.3	1.966	2.836	11.2	21.6
2 5	6 4.49	+17 8.3	1.551	2.351	17.4	17.2	2 5	6 4.80	+27 46.1	2.052	2.835	14.3	21.8
231017	2005 <i>EH</i> ₈₀		12 29.3 338°42'	4.2/28.4	18		329434	2002 <i>OR</i>		12 29.3 168°00'	1.7/29.5	18	
11 27	6 58.60	+31 27.4	1.790	2.634	13.5	19.4	11 27	7 4.94	+19 8.2	1.945	2.770	13.4	21.5
12 7	6 53.58	+32 29.1	1.711	2.623	10.1	19.2	12 7	6 57.48	+18 52.4	1.872	2.776	9.8	21.3
12 17	6 45.84	+33 28.1	1.657	2.612	6.6	19.0	12 17	6 47.73	+18 39.8	1.824	2.782	5.8	21.1
12 27	6 36.25	+34 18.4	1.630	2.601	4.3	18.8	12 27	6 36.59	+18 29.8	1.805	2.786	2.0	20.8
1 6	6 26.09	+34 54.9	1.630	2.592	5.8	18.9	1 6	6 25.22	+18 21.9	1.817	2.789	3.8	21.0
1 16	6 16.78	+35 15.6	1.658	2.583	9.3	19.1	1 16	6 14.83	+18 16.1	1.858	2.791	7.8	21.2
1 26	6 9.64	+35 21.6	1.710	2.575	12.9	19.3	1 26	6 6.44	+18 12.8	1.927	2.793	11.6	21.5
2 5	6 5.51	+35 16.2	1.784	2.567	16.1	19.5	2 5	6 0.69	+18 12.2	2.019	2.793	14.8	21.7
76736	2000 <i>JA</i> ₅₅		12 29.3 284°67'	3.9/29.7	18		257820	2000 <i>GU</i> ₈₄		12 29.3 202°56'	7.4/31.3	18	
11 27	6 56.47	+11 58.9	2.333	3.151	11.7	19.5	11 27	6 54.65	- 8 5.4	3.359	4.070	10.6	21.9
12 7	6 51.21	+11 30.0	2.239	3.133	9.0	19.3	12 7	6 49.37	- 8 37.7	3.278	4.065	9.3	21.7
12 17	6 44.14	+11 8.4	2.171	3.115	6.1	19.1	12 17	6 42.88	- 8 55.1	3.220	4.059	8.2	21.7
12 27	6 35.89	+10 55.5	2.130	3.097	4.0	19.0	12 27	6 35.65	- 8 55.3	3.188	4.053	7.5	21.6
1 6	6 27.29	+10 51.6	2.119	3.079	4.8	19.0	1 6	6 28.24	- 8 37.6	3.183	4.046	7.5	21.6
1 16	6 19.23	+10 56.6	2.137	3.060	7.6	19.1	1 16	6 21.23	- 8 3.0	3.205	4.038	8.3	21.6
1 26	6 12.56	+11 9.7	2.181	3.042	10.6	19.3	1 26	6 15.15	- 7 13.5	3.253	4.031	9.6	21.7
2 5	6 7.87	+11 29.1	2.249	3.024	13.4	19.4	2 5	6 10.44	- 6 12.7	3.324	4.022	10.9	21.8
24329	2000 <i>AR</i> ₅₆		12 29.3 97°37'	0.6/29.5	18		313274	2001 <i>YW</i> ₁₅₄		12 29.3 311°90'	5.8/29.2	18	
11 27	6 58.16												

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12 29.3

12 29.4

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
227654	2006 <i>BA</i> ₁₅₀		12 29.3 47°43'	1.7°/28.9	17		379916	2012 <i>JL</i> ₆₅		12 29.4 155°14'	1.7°/29.1	18	
11 27	6 59.68	+25 39.2	2.006	2.844	12.5	19.8	11 27	7 6.01	+26 8.1	1.716	2.552	14.4	21.5
12 7	6 53.85	+26 26.7	1.937	2.849	9.1	19.6	12 7	6 58.71	+26 40.0	1.649	2.559	10.5	21.3
12 17	6 45.76	+27 15.0	1.893	2.853	5.3	19.4	12 17	6 48.64	+27 11.3	1.606	2.566	6.1	21.1
12 27	6 36.24	+28 0.0	1.878	2.858	1.9	19.2	12 27	6 36.83	+27 37.5	1.591	2.572	2.0	20.8
1 6	6 26.39	+28 38.2	1.892	2.863	3.8	19.3	1 6	6 24.70	+27 55.3	1.605	2.577	4.2	21.0
1 16	6 17.38	+29 7.7	1.935	2.868	7.6	19.6	1 16	6 13.71	+28 3.7	1.648	2.582	8.6	21.2
1 26	6 10.24	+29 28.5	2.005	2.873	11.1	19.8	1 26	6 5.11	+28 4.1	1.718	2.586	12.6	21.5
2 5	6 5.65	+29 42.1	2.097	2.878	14.1	20.0	2 5	6 59.64	+27 59.3	1.809	2.589	16.0	21.7
40129	1998 <i>QY</i> ₄₅		12 29.3 124°34'	3°2'/29.0	18		418448	2008 <i>QN</i> ₄₅		12 29.4 89°59'	2°2'/29.2	17	
11 27	7 1.89	+33 11.1	2.384	3.208	11.3	18.7	11 27	7 1.30	+30 31.1	2.320	3.148	11.4	21.3
12 7	6 55.11	+33 28.7	2.317	3.217	8.4	18.5	12 7	6 54.62	+30 33.7	2.258	3.163	8.4	21.1
12 17	6 46.31	+33 40.0	2.275	3.226	5.4	18.4	12 17	6 46.00	+30 31.2	2.222	3.177	5.0	21.0
12 27	6 36.33	+33 41.7	2.263	3.235	3.2	18.2	12 27	6 36.30	+30 21.4	2.214	3.192	2.3	20.8
1 6	6 26.21	+33 32.3	2.281	3.243	4.3	18.3	1 6	6 26.54	+30 3.4	2.237	3.206	3.6	20.9
1 16	6 17.00	+33 12.5	2.329	3.251	7.1	18.5	1 16	6 17.72	+29 38.1	2.290	3.220	6.8	21.1
1 26	6 9.59	+32 44.4	2.403	3.259	10.0	18.7	1 26	6 10.70	+29 7.7	2.371	3.234	9.8	21.4
2 5	6 4.56	+32 11.3	2.502	3.267	12.5	18.9	2 5	6 5.99	+28 34.7	2.475	3.248	12.4	21.6
261486	2005 <i>VG</i> ₁₃₄		12 29.3 143°71'	0°9'/29.2	17		82170	2001 <i>HR</i> ₇		12 29.4 183°40'	2°4'/29.7	18	
11 27	6 59.83	+24 12.6	2.148	2.982	11.9	21.3	11 27	7 3.16	+16 32.5	1.895	2.721	13.7	20.8
12 7	6 53.80	+24 43.1	2.075	2.985	8.7	21.1	12 7	6 56.33	+16 23.9	1.819	2.722	10.2	20.6
12 17	6 45.67	+25 14.7	2.027	2.988	5.0	20.8	12 17	6 47.18	+16 21.5	1.767	2.722	6.2	20.4
12 27	6 36.23	+25 44.6	2.009	2.991	1.2	20.6	12 27	6 36.56	+16 24.9	1.743	2.721	2.7	20.2
1 6	6 26.50	+26 10.1	2.020	2.993	3.3	20.7	1 6	6 25.63	+16 33.2	1.750	2.720	4.2	20.3
1 16	6 17.54	+26 30.0	2.061	2.996	7.1	21.0	1 16	6 15.58	+16 45.4	1.785	2.718	8.1	20.5
1 26	6 10.33	+26 44.2	2.130	2.998	10.5	21.2	1 26	6 7.48	+17 0.7	1.848	2.716	11.9	20.7
2 5	6 5.49	+26 53.8	2.221	3.001	13.4	21.4	2 5	6 1.99	+17 18.4	1.933	2.712	15.1	20.9
11440	Massironi		12 29.3 11°48'	4°3'/30.0	18		150438	2000 <i>GG</i> ₁₁₇		12 29.4 316°16'	1°9'/29.5	18	
11 27	6 55.02	+9 58.8	2.343	3.157	11.8	17.6	11 27	7 0.04	+19 14.0	1.307	2.162	16.8	20.5
12 7	6 50.03	+9 36.6	2.269	3.158	9.1	17.4	12 7	6 55.10	+19 4.9	1.228	2.147	12.5	20.1
12 17	6 43.41	+9 23.9	2.220	3.160	6.3	17.2	12 17	6 46.94	+19 2.0	1.170	2.133	7.5	19.8
12 27	6 35.78	+9 21.7	2.199	3.161	4.4	17.1	12 27	6 36.57	+19 4.5	1.138	2.119	2.4	19.5
1 6	6 27.96	+9 30.0	2.206	3.163	5.0	17.1	1 6	6 25.53	+19 10.8	1.131	2.105	4.8	19.6
1 16	6 20.76	+9 47.9	2.243	3.165	7.4	17.3	1 16	6 15.54	+19 20.1	1.149	2.093	10.3	19.9
1 26	6 14.93	+10 13.6	2.306	3.167	10.1	17.5	1 26	6 8.17	+19 31.8	1.191	2.080	15.4	20.1
2 5	6 11.01	+10 45.0	2.392	3.169	12.7	17.6	2 5	6 4.35	+19 45.4	1.252	2.069	19.8	20.4
287897	2003 <i>ST</i> ₃₈₂		12 29.3 132°67'	4°5'/30.3	17		339850	2005 <i>TA</i> ₂₈		12 29.4 65°36'	4°8'/28.7	18	
11 27	6 56.67	+8 17.8	2.403	3.207	11.8	21.8	11 27	7 5.75	+31 46.8	1.398	2.245	16.4	20.0
12 7	6 51.16	+8 2.4	2.331	3.213	9.2	21.6	12 7	6 59.08	+32 45.5	1.346	2.258	12.3	19.7
12 17	6 44.03	+7 57.6	2.285	3.219	6.5	21.4	12 17	6 49.04	+33 38.0	1.315	2.270	7.9	19.5
12 27	6 35.91	+8 4.4	2.266	3.224	4.7	21.3	12 27	6 36.93	+34 16.8	1.311	2.283	4.9	19.4
1 6	6 27.61	+8 22.3	2.277	3.230	5.1	21.4	1 6	6 24.54	+34 36.8	1.334	2.297	6.5	19.5
1 16	6 19.95	+8 50.1	2.317	3.235	7.4	21.5	1 16	6 13.70	+34 37.7	1.382	2.310	10.5	19.8
1 26	6 13.66	+9 25.7	2.384	3.240	10.1	21.7	1 26	6 5.87	+34 23.4	1.455	2.323	14.5	20.1
2 5	6 9.26	+10 6.5	2.475	3.244	12.5	21.9	2 5	6 1.79	+33 59.5	1.547	2.336	17.9	20.3
70527	1999 <i>TQ</i> ₁₁₅		12 29.3 143°96'	0°8'/29.3	18		274554	2008 <i>SG</i> ₂₆₅		12 29.4 147°76'	3°3'/28.6	18	
11 27	7 3.43	+25 18.4	2.078	2.908	12.5	20.0	11 27	7 0.25	+32 26.1	2.526	3.351	10.7	20.4
12 7	6 56.34	+25 26.0	2.010	2.918	9.1	19.8	12 7	6 54.00	+33 13.8	2.455	3.355	8.0	20.2
12 17	6 47.06	+25 32.6	1.968	2.928	5.2	19.6	12 17	6 45.77	+33 57.1	2.410	3.359	5.2	20.1
12 27	6 36.50	+25 35.6	1.955	2.937	1.2	19.4	12 27	6 36.29	+34 32.3	2.394	3.363	3.4	20.0
1 6	6 25.76	+25 33.8	1.972	2.945	3.3	19.5	1 6	6 26.53	+34 56.3	2.408	3.366	4.4	20.0
1 16	6 15.99	+25 27.1	2.019	2.953	7.2	19.8	1 16	6 17.47	+35 8.5	2.452	3.369	7.1	20.2
1 26	6 8.15	+25 16.8	2.094	2.960	10.8	20.0	1 26	6 10.04	+35 10.0	2.523	3.373	9.8	20.4
2 5	6 2.85	+25 4.5	2.191	2.967	13.7	20.3	2 5	6 4.84	+35 3.2	2.618	3.375	12.2	20.6
504476	2008 <i>EN</i> ₇₆		12 29.4 209°94'	18°3'/27.4	17		90613	6187 <i>P-L</i>		12 29.4 190°73'	3°5'/29.8	18	
11 27	7 27.13	+57 51.7	1.208	1.985	22.7	21.5	11 27	7 1.87	+13 7.1	2.110	2.925	12.9	20.4
12 7	7 18.55	+60 5.9	1.161	1.984	20.6	21.3	12 7	6 55.20	+12 49.6	2.029	2.923	9.7	20.2
12 17	7 2.01	+61 47.4	1.131	1.982	19.0	21.2	12 17	6 46.47	+12 40.0	1.974	2.921	6.4	20.0
12 27	6 39.57	+62 35.0	1.120	1.981	18.3	21.2	12 27	6 36.44	+12 38.9	1.948	2.919	3.7	19.8
1 6	6 15.94	+62 16.9	1.127	1.979	18.9	21.2	1 6	6 26.12	+12 45.8	1.951	2.915	4.6	19.9
1 16	5 56.42	+60 57.3	1.153	1.977	20.5	21.3	1 16	6 16.53	+13 0.0	1.984	2.911	7.9	20.1
1 26	5 44.34	+58 53.6	1.196	1.975	22.6	21.4	1 26	6 8.64	+13 20.2	2.045	2.906	11.2	20.3
2 5	5 40.19	+56 26.1	1.253	1.973	24.8	21.6	2 5	6 3.07	+13 44.9	2.129	2.900	14.2	20.5
212145	2005 <i>EM</i> ₂₈₀		12 29.4 244°83'	2°5'/29.8	18		248255	2005 <i>GP</i> ₅₀		12 29.4 172°09'	2°0'/29.6	18	
11 27	6 59.80	+15 29.6	1.985	2.812	13.1	21.2	11 27	7 0.17	+17 26.8	1.970	2.801	13.0	20.6
12 7	6 53.93	+15 34.6	1.898	2.802	9.8	21.0	12 7	6 54.10	+17 20.7	1.896	2.802	9.6	20.4
12 17	6 45.85	+15 47.6	1.837	2.791	6.1	20.7	12 17	6 45.88	+17 20.1	1.846	2.803	5.8	20.1
12 27	6 36.29	+16 7.7	1.803	2.780	2.8	20.5	12 27	6 36.33	+17 24.4	1.825	2.804	2.3	19.9
1 6	6 26.31	+16 33.6	1.798	2.769	4.0	20.6	1 6	6 26.51	+17 32.6	1.833	2.805	3.8	20.0
1 16	6 17.01	+17 3.5	1.823	2.757	7.9	20.8	1 16	6 17.51	+17 43.9	1.870	2.805	7.6	20.2
1 26	6 9.44	+17 35.8	1.874	2.745	11.6	21.0	1 26	6 10.33	+17 57.6	1.934	2.805	11.3	20.5
2 5	6 4.31	+18 9.1	1.949	2.733	14.9	21.2	2 5	6 5.58	+18 12.9	2.020	2.805	14.4	20.7
254751	2005 <i>PU</i> ₁₂		12 29.4 58°85'	0°8'/29.5	18		418565	2008 <i>SN</i> ₁₅₀		12 29.4 328°54'	5°7'/28.3	18	
11 27	7 0.26	+19 11.2											

EPHEMERIDES

12 29.4

12 29.4

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
189712	2001 <i>TE</i> ₁₈₃		12 29.4 159°07	1.3/29.5	18		495709	2016 <i>CL</i> ₇₀		12 29.4 321°64	6°0/31.7	18	
11 27	7 3.87	+20 7.8	1.991	2.818	13.0	20.4	11 27	6 58.14	+2 27.2	2.064	2.852	14.0	20.0
12 7	6 56.69	+19 54.6	1.920	2.825	9.6	20.2	12 7	6 52.66	+3 2.9	1.975	2.842	11.3	19.8
12 17	6 47.31	+19 43.8	1.874	2.832	5.6	20.0	12 17	6 45.13	+3 59.2	1.910	2.833	8.5	19.6
12 27	6 36.60	+19 34.7	1.857	2.838	1.7	19.7	12 27	6 36.23	+5 16.2	1.873	2.823	6.3	19.5
1 6	6 25.70	+19 26.7	1.870	2.843	3.5	19.9	1 6	6 26.89	+6 51.4	1.864	2.814	6.4	19.5
1 16	6 15.75	+19 19.8	1.914	2.848	7.6	20.1	1 16	6 18.12	+8 39.7	1.885	2.805	8.7	19.6
1 26	6 7.74	+19 14.5	1.984	2.852	11.2	20.4	1 26	6 10.89	+10 35.2	1.935	2.797	11.7	19.8
2 5	6 2.29	+19 11.3	2.078	2.855	14.3	20.6	2 5	6 5.89	+12 31.8	2.009	2.788	14.7	20.0
774	<i>Armor</i>		12 29.4 178°72	1°0/29.5	18		483045	2015 <i>HY</i> ₁₅₀		12 29.4 140°15	1°8/29.1	18	
11 27	6 58.01	+19 51.5	2.733	3.556	10.0	14.4	11 27	7 5.74	+27 15.3	1.951	2.780	13.2	22.5
12 7	6 52.04	+19 44.6	2.653	3.557	7.3	14.2	12 7	6 58.19	+27 39.2	1.886	2.793	9.6	22.3
12 17	6 44.52	+19 39.9	2.600	3.558	4.3	14.0	12 17	6 48.22	+28 0.9	1.847	2.806	5.6	22.1
12 27	6 36.06	+19 36.8	2.578	3.559	1.3	13.8	12 27	6 36.80	+28 16.5	1.837	2.818	2.0	21.9
1 6	6 27.41	+19 34.7	2.586	3.559	2.7	13.9	1 6	6 25.19	+28 23.9	1.858	2.829	3.9	22.1
1 16	6 19.37	+19 33.5	2.625	3.558	5.8	14.1	1 16	6 14.67	+28 22.6	1.907	2.839	7.8	22.3
1 26	6 12.63	+19 33.1	2.692	3.558	8.7	14.3	1 26	6 6.30	+28 14.6	1.984	2.848	11.4	22.6
2 5	6 7.70	+19 33.6	2.785	3.556	11.2	14.5	2 5	6 0.72	+28 2.3	2.084	2.857	14.4	22.8
97735	2000 <i>HD</i> ₁₂		12 29.4 200°75	0°5/29.4	18		286620	2002 <i>ET</i> ₁		12 29.4 142°23	15°1/3.9	18	
11 27	7 5.52	+21 52.5	1.492	2.334	15.9	19.9	11 27	7 3.94	-11 33.0	1.266	2.016	23.1	20.2
12 7	6 58.69	+21 53.6	1.418	2.332	11.7	19.6	12 7	6 57.70	-11 52.4	1.204	2.019	20.4	20.0
12 17	6 48.80	+21 57.4	1.367	2.329	6.7	19.3	12 17	6 48.31	-11 29.8	1.158	2.022	17.7	19.9
12 27	6 36.93	+22 1.5	1.343	2.326	1.4	19.0	12 27	6 36.86	-10 18.0	1.132	2.024	15.7	19.8
1 6	6 24.61	+22 4.0	1.347	2.322	4.2	19.2	1 6	6 24.93	-8 17.1	1.127	2.026	15.1	19.7
1 16	6 13.45	+22 4.3	1.379	2.318	9.4	19.4	1 16	6 14.19	-5 35.2	1.146	2.028	16.4	19.8
1 26	6 4.87	+22 3.3	1.436	2.313	14.1	19.7	1 26	6 6.12	-2 26.7	1.188	2.030	18.9	20.0
2 5	5 59.68	+22 2.3	1.513	2.308	18.0	19.9	2 5	6 1.56	+0 52.4	1.251	2.032	21.8	20.2
77504	2001 <i>HX</i> ₄₅		12 29.4 259°60	3°6/28.6	18		311659	2006 <i>SS</i> ₈		12 29.4 125°03	3°7/29.8	18	
11 27	7 2.82	+30 0.4	1.824	2.662	13.6	19.6	11 27	7 0.50	+12 59.7	2.181	2.996	12.5	21.2
12 7	6 56.60	+30 58.0	1.745	2.654	10.1	19.4	12 7	6 54.00	+12 29.3	2.116	3.010	9.4	21.0
12 17	6 47.60	+31 53.6	1.691	2.647	6.4	19.1	12 17	6 45.67	+12 6.5	2.078	3.024	6.2	20.9
12 27	6 36.71	+32 41.4	1.665	2.640	3.6	19.0	12 27	6 36.30	+11 52.0	2.067	3.037	3.8	20.7
1 6	6 25.25	+33 16.4	1.668	2.632	5.3	19.0	1 6	6 26.81	+11 46.1	2.087	3.049	4.6	20.8
1 16	6 14.68	+33 36.8	1.699	2.624	9.0	19.3	1 16	6 18.16	+11 48.3	2.137	3.061	7.5	21.0
1 26	6 6.32	+33 43.6	1.755	2.617	12.8	19.5	1 26	6 11.14	+11 57.6	2.213	3.073	10.6	21.2
2 5	6 1.02	+33 40.2	1.833	2.609	16.0	19.7	2 5	6 6.30	+12 12.5	2.313	3.084	13.2	21.4
447667	2006 <i>WC</i> ₁₈₅		12 29.4 45°65	3°4/28.9	17		422865	2002 <i>PY</i> ₁₀₅		12 29.4 148°17	3°9/29.8	18	R
11 27	7 2.28	+31 1.6	1.731	2.571	14.1	20.9	11 27	7 3.48	+13 46.9	1.705	2.531	15.0	21.6
12 7	6 56.07	+31 33.5	1.667	2.577	10.4	20.7	12 7	6 56.65	+13 24.1	1.639	2.539	11.3	21.4
12 17	6 47.15	+32 0.2	1.628	2.584	6.5	20.5	12 17	6 47.39	+13 10.3	1.596	2.546	7.3	21.2
12 27	6 36.59	+32 17.0	1.615	2.590	3.6	20.3	12 27	6 36.65	+13 6.3	1.581	2.553	4.1	21.0
1 6	6 25.76	+32 21.0	1.631	2.597	5.1	20.5	1 6	6 25.68	+13 11.5	1.594	2.560	5.2	21.1
1 16	6 16.10	+32 12.1	1.674	2.604	8.8	20.7	1 16	6 15.75	+13 25.0	1.635	2.566	9.0	21.3
1 26	6 8.79	+31 53.1	1.743	2.612	12.5	20.9	1 26	6 7.95	+13 45.3	1.703	2.571	12.7	21.6
2 5	6 4.53	+31 27.7	1.833	2.619	15.6	21.2	2 5	6 2.93	+14 10.3	1.792	2.576	16.0	21.8
292829	2006 <i>UB</i> ₂₇₄		12 29.4 82°00	2°1/29.5	18		479610	2014 <i>DJ</i> ₂₀		12 29.4 11°38	10°6/29.0	16	
11 27	7 1.12	+18 27.9	1.870	2.703	13.5	20.9	11 27	7 0.61	+40 55.9	0.924	1.791	21.1	19.9
12 7	6 54.69	+18 3.1	1.811	2.719	9.9	20.7	12 7	6 56.86	+42 4.8	0.882	1.795	16.9	19.7
12 17	6 46.13	+17 42.5	1.777	2.734	5.9	20.5	12 17	6 48.35	+42 52.3	0.858	1.802	12.9	19.5
12 27	6 36.37	+17 26.0	1.770	2.749	2.4	20.3	12 27	6 36.87	+43 6.5	0.855	1.810	10.7	19.4
1 6	6 26.52	+17 13.6	1.793	2.765	3.9	20.4	1 6	6 25.13	+42 42.2	0.872	1.821	11.7	19.5
1 16	6 17.71	+17 5.4	1.845	2.780	7.7	20.7	1 16	6 15.78	+41 43.2	0.910	1.834	15.0	19.7
1 26	6 10.85	+17 1.4	1.923	2.795	11.3	21.0	1 26	6 10.71	+40 20.8	0.967	1.849	18.9	20.0
2 5	6 6.50	+17 1.2	2.024	2.810	14.3	21.2	2 5	6 10.49	+38 46.8	1.041	1.865	22.4	20.3
315662	2008 <i>DO</i> ₆₀		12 29.4 81°28	0°6/29.5	18		386661	2009 <i>UE</i> ₄₇		12 29.4 357°94	1°4/29.2	18	
11 27	7 0.04	+20 39.5	1.882	2.719	13.3	21.0	11 27	7 0.21	+24 53.9	1.166	2.032	17.7	21.0
12 7	6 54.09	+20 51.5	1.815	2.726	9.7	20.8	12 7	6 55.47	+25 18.1	1.103	2.028	13.0	20.7
12 17	6 45.90	+21 7.2	1.773	2.734	5.6	20.6	12 17	6 47.22	+25 44.1	1.061	2.026	7.5	20.4
12 27	6 36.34	+21 24.6	1.759	2.741	1.3	20.3	12 27	6 36.67	+26 7.1	1.043	2.025	2.0	20.1
1 6	6 26.55	+21 41.9	1.773	2.748	3.4	20.5	1 6	6 25.60	+26 23.1	1.050	2.025	5.0	20.3
1 16	6 17.68	+21 57.8	1.817	2.755	7.6	20.7	1 16	6 15.95	+26 30.5	1.081	2.025	10.7	20.6
1 26	6 10.74	+22 12.0	1.887	2.762	11.3	21.0	1 26	6 9.32	+26 30.7	1.135	2.027	15.8	20.9
2 5	6 6.35	+22 24.6	1.980	2.770	14.5	21.2	2 5	6 6.57	+26 26.2	1.207	2.030	20.0	21.1
82784	2001 <i>QK</i> ₂₀		12 29.4 4°65	5°5/30.3	18		210645	2000 <i>HH</i> ₂₀		12 29.4 138°59	1°0/29.2	18	
11 27	6 57.62	+9 10.7	1.700	2.524	15.0	18.8	11 27	7 1.70	+25 40.9	2.583	3.407	10.5	22.1
12 7	6 52.48	+8 51.8	1.630	2.524	11.7	18.6	12 7	6 54.79	+26 4.3	2.517	3.422	7.6	21.9
12 17	6 45.05	+8 46.9	1.583	2.524	8.2	18.4	12 17	6 46.11	+26 26.8	2.478	3.436	4.4	21.7
12 27	6 36.19	+8 57.5	1.561	2.525	5.7	18.2	12 27	6 36.39	+26 46.0	2.468	3.450	1.3	21.5
1 6	6 27.02	+9 22.9	1.567	2.526	6.3	18.3	1 6	6 26.52	+27 0.1	2.491	3.462	2.9	21.7
1 16	6 18.71	+10 1.0	1.600	2.527	9.4	18.5	1 16	6 17.41	+27 8.6	2.544	3.475	6.1	21.9
1 26	6 12.30	+10 48.7	1.658	2.529	12.9	18.7	1 26	6 9.84	+27 12.0	2.626	3.486	9.1	22.1
2 5	6 8.48	+11 41.8	1.738	2.531	16.0	18.9	2 5	6 4.34	+27 11.7	2.732	3.497	11.6	22.3
485374	2011 <i>EN</i> ₃₀		12 29.4 172°64	1°1/29.6	18		181624	2006 <i>WO</i> ₁₉₁		12 29.4 132°13	1°0/29.2	18	
11 27	6 57.08	+18 12.2											

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
455008	2015 <i>TV</i> ₂₆₅	12 29.4 321°06		2°3/29.5 18			418489	2008 <i>RA</i> ₁₁₇	12 29.4 63°89		3°5/29.8 17		
11 27	6 59.84	+18 30.3	1.629	2.471	14.7	21.2	11 27	6 56.88	+12 49.7	2.241	3.062	12.0	21.5
12 7	6 54.30	+18 6.9	1.552	2.464	10.9	21.0	12 7	6 51.44	+12 25.5	2.172	3.069	9.1	21.3
12 17	6 46.20	+17 48.2	1.499	2.458	6.6	20.7	12 17	6 44.27	+12 9.1	2.129	3.076	6.0	21.2
12 27	6 36.45	+17 34.1	1.472	2.452	2.6	20.5	12 27	6 36.07	+12 1.1	2.113	3.083	3.7	21.0
1 6	6 26.32	+17 24.6	1.473	2.446	4.4	20.6	1 6	6 27.71	+12 1.6	2.127	3.090	4.5	21.1
1 16	6 17.14	+17 19.7	1.502	2.440	8.9	20.8	1 16	6 20.06	+12 9.8	2.170	3.097	7.3	21.3
1 26	6 10.10	+17 19.4	1.556	2.435	13.1	21.1	1 26	6 13.91	+12 24.7	2.240	3.104	10.2	21.5
2 5	6 5.93	+17 23.1	1.630	2.430	16.7	21.3	2 5	6 9.79	+12 44.6	2.333	3.112	12.9	21.7
318797	2005 <i>SQ</i> ₁₃₇	12 29.4 111°36		1°0/29.2 18			247999	2004 <i>DN</i> ₅₅	12 29.4 91°77		2°3/29.2 18		
11 27	7 0.61	+25 25.5	2.054	2.889	12.4	21.4	11 27	7 2.83	+29 18.3	1.837	2.674	13.5	20.9
12 7	6 54.42	+25 40.5	1.984	2.895	9.0	21.2	12 7	6 56.29	+29 30.5	1.769	2.680	9.9	20.7
12 17	6 46.07	+25 55.0	1.940	2.901	5.2	21.0	12 17	6 47.23	+29 38.3	1.726	2.685	6.0	20.5
12 27	6 36.40	+26 6.3	1.925	2.907	1.4	20.7	12 27	6 36.66	+29 38.4	1.711	2.690	2.5	20.3
1 6	6 26.51	+26 12.7	1.939	2.912	3.4	20.9	1 6	6 25.87	+29 28.9	1.725	2.695	4.2	20.4
1 16	6 17.51	+26 13.7	1.982	2.918	7.3	21.1	1 16	6 16.17	+29 10.5	1.767	2.700	8.2	20.7
1 26	6 10.37	+26 10.1	2.053	2.923	10.8	21.4	1 26	6 8.69	+28 45.5	1.835	2.705	11.9	20.9
2 5	6 5.71	+26 3.6	2.146	2.928	13.7	21.6	2 5	6 4.07	+28 17.1	1.926	2.710	15.0	21.1
458430	2011 <i>AQ</i> ₄₂	12 29.4 269°64		1°1/29.2 18			324088	2005 <i>WJ</i> ₁₂₁	12 29.4 29°88		2°2/29.6 17		
11 27	6 59.16	+25 12.3	2.231	3.065	11.6	21.6	11 27	6 58.72	+17 36.2	1.899	2.734	13.2	20.5
12 7	6 53.42	+25 36.6	2.142	3.053	8.5	21.4	12 7	6 53.10	+17 18.1	1.829	2.737	9.8	20.3
12 17	6 45.57	+26 1.4	2.080	3.040	4.9	21.1	12 17	6 45.35	+17 5.0	1.783	2.740	5.9	20.1
12 27	6 36.32	+26 24.0	2.046	3.027	1.4	20.8	12 27	6 36.29	+16 57.0	1.764	2.743	2.5	19.9
1 6	6 26.67	+26 42.0	2.042	3.015	3.3	21.0	1 6	6 27.02	+16 53.7	1.775	2.746	3.9	20.0
1 16	6 17.67	+26 54.4	2.068	3.002	7.1	21.2	1 16	6 18.61	+16 54.7	1.814	2.750	7.8	20.2
1 26	6 10.30	+27 1.2	2.120	2.989	10.6	21.4	1 26	6 12.03	+16 59.6	1.879	2.753	11.4	20.5
2 5	6 5.26	+27 3.8	2.196	2.976	13.6	21.6	2 5	6 7.89	+17 7.8	1.966	2.757	14.5	20.7
276110	2002 <i>GO</i> ₆	12 29.4 103°18		15°4/30.3 18			241129	2007 <i>PL</i> ₃₅	12 29.4 66°77		6°9/28.7 18		
11 27	7 5.15	- 5 44.4	1.258	2.036	21.9	19.9	11 27	7 8.42	+38 47.3	1.610	2.437	15.6	19.1
12 7	6 58.29	- 8 1.3	1.216	2.050	19.1	19.8	12 7	7 0.75	+39 50.8	1.568	2.462	12.1	19.0
12 17	6 48.45	- 9 46.9	1.192	2.063	16.8	19.6	12 17	6 49.89	+40 40.7	1.550	2.486	8.8	18.8
12 27	6 36.87	-10 51.0	1.189	2.077	15.5	19.6	12 27	6 37.17	+41 9.4	1.557	2.511	7.0	18.8
1 6	6 25.11	-11 9.1	1.208	2.090	15.8	19.7	1 6	6 24.39	+41 13.3	1.592	2.535	7.9	18.9
1 16	6 14.78	-10 43.5	1.249	2.102	17.3	19.8	1 16	6 13.30	+40 53.9	1.653	2.559	10.6	19.1
1 26	6 7.14	- 9 42.0	1.308	2.115	19.5	20.0	1 26	6 5.22	+40 16.9	1.738	2.584	13.7	19.3
2 5	6 2.88	- 8 16.0	1.384	2.126	21.8	20.2	2 5	6 0.77	+39 29.6	1.844	2.608	16.3	19.6
74994	1999 <i>TH</i> ₂₇₁	12 29.4 139°00		1°3/29.3 18			40125	1998 <i>QU</i> ₃₈	12 29.4 114°94		4°6/30.2 18		
11 27	7 7.39	+26 36.3	1.815	2.645	14.0	20.0	11 27	6 57.35	+ 8 40.9	2.354	3.159	12.0	19.4
12 7	6 59.45	+26 42.9	1.751	2.659	10.2	19.8	12 7	6 51.68	+ 8 19.7	2.287	3.170	9.3	19.2
12 17	6 48.95	+26 46.9	1.713	2.672	5.9	19.6	12 17	6 44.38	+ 8 9.0	2.245	3.180	6.6	19.1
12 27	6 36.96	+26 45.1	1.703	2.685	1.7	19.3	12 27	6 36.10	+ 8 9.7	2.231	3.189	4.7	19.0
1 6	6 24.83	+26 36.2	1.724	2.697	3.8	19.5	1 6	6 27.67	+ 8 21.5	2.246	3.199	5.2	19.0
1 16	6 13.93	+26 20.6	1.774	2.707	8.1	19.8	1 16	6 19.93	+ 8 43.5	2.291	3.208	7.5	19.2
1 26	6 5.38	+26 0.7	1.850	2.717	11.9	20.0	1 26	6 13.60	+ 9 13.5	2.362	3.218	10.1	19.4
2 5	5 59.79	+25 39.1	1.949	2.726	15.1	20.3	2 5	6 9.21	+ 9 49.2	2.457	3.226	12.6	19.5
494432	2016 <i>UE</i> ₈₉	12 29.4 134°79		4°5/28.8 16			197325	2003 <i>WF</i> ₁₅₁	12 29.4 10°95		11°8/ 3.8 17		
11 27	7 7.81	+32 51.6	1.670	2.503	14.9	22.4	11 27	6 55.82	-10 7.3	1.693	2.438	18.3	18.6
12 7	7 0.24	+33 38.3	1.609	2.513	11.2	22.2	12 7	6 51.15	-10 6.3	1.631	2.443	16.1	18.5
12 17	6 49.62	+34 18.1	1.572	2.523	7.3	22.0	12 17	6 44.29	- 9 32.9	1.587	2.448	13.8	18.3
12 27	6 37.11	+34 44.4	1.561	2.532	4.6	21.9	12 27	6 36.10	- 8 23.8	1.565	2.455	12.2	18.3
1 6	6 24.31	+34 53.5	1.580	2.541	6.0	22.0	1 6	6 27.66	- 6 40.3	1.567	2.463	11.8	18.2
1 16	6 12.86	+34 45.2	1.626	2.549	9.6	22.2	1 16	6 20.09	- 4 28.2	1.594	2.473	12.8	18.3
1 26	6 4.10	+34 23.5	1.697	2.556	13.3	22.5	1 26	6 14.38	- 1 56.9	1.646	2.483	14.7	18.5
2 5	5 58.77	+33 53.4	1.790	2.563	16.4	22.7	2 5	6 11.15	+ 0 43.1	1.721	2.494	17.0	18.7
485806	2012 <i>DN</i> ₄₀	12 29.4 187°19		0°1/29.4 17			197374	2003 <i>XQ</i> ₃₆	12 29.4 65°34		4°4/28.5 17		
11 27	6 59.19	+22 23.4	2.295	3.126	11.4	22.2	11 27	7 1.29	+34 39.3	2.195	3.023	12.0	20.0
12 7	6 53.22	+22 28.0	2.218	3.126	8.3	22.0	12 7	6 55.04	+35 32.7	2.132	3.031	9.1	19.9
12 17	6 45.34	+22 34.0	2.166	3.126	4.7	21.8	12 17	6 46.50	+36 19.6	2.094	3.040	6.2	19.7
12 27	6 36.27	+22 39.9	2.143	3.125	0.9	21.5	12 27	6 36.54	+36 55.0	2.084	3.048	4.4	19.6
1 6	6 26.96	+22 44.5	2.150	3.124	2.9	21.6	1 6	6 26.30	+37 15.8	2.104	3.057	5.5	19.7
1 16	6 18.37	+22 47.1	2.187	3.123	6.6	21.9	1 16	6 16.96	+37 21.4	2.152	3.066	8.1	19.9
1 26	6 11.37	+22 48.2	2.252	3.122	10.0	22.1	1 26	6 9.57	+37 13.9	2.226	3.074	10.9	20.1
2 5	6 6.56	+22 48.3	2.341	3.120	12.8	22.3	2 5	6 4.78	+36 56.7	2.322	3.083	13.5	20.3
471996	2013 <i>WL</i> ₁₀	12 29.4 56°87		1°9/29.5 18			421913	2014 <i>QB</i> ₂₂₈	12 29.4 44°45		0°9/29.3 17		
11 27	7 4.82	+20 15.3	1.186	2.040	18.2	21.0	11 27	6 59.92	+25 0.4	1.882	2.722	13.1	21.1
12 7	6 58.21	+19 49.8	1.141	2.059	13.3	20.7	12 7	6 54.07	+25 13.0	1.816	2.729	9.5	20.9
12 17	6 48.42	+19 28.9	1.117	2.079	7.8	20.5	12 17	6 45.95	+25 25.3	1.774	2.735	5.5	20.7
12 27	6 36.85	+19 12.1	1.118	2.099	2.4	20.2	12 27	6 36.43	+25 34.9	1.760	2.742	1.3	20.4
1 6	6 25.31	+18 58.9	1.145	2.119	4.9	20.4	1 6	6 26.70	+25 40.0	1.775	2.749	3.5	20.6
1 16	6 15.48	+18 49.6	1.198	2.140	10.2	20.8	1 16	6 17.93	+25 40.1	1.819	2.757	7.6	20.8
1 26	6 8.66	+18 44.7	1.274	2.160	14.8	21.1	1 26	6 11.15	+25 36.1	1.889	2.764	11.3	21.1
2 5	6 5.42	+18 44.0	1.369	2.181	18.6	21.4	2 5	6 6.99	+25 29.5	1.982	2.772	14.5	21.3
43888	1995 <i>OV</i> ₈	12 29.4 166°02		3°5/29.9 18			70579	1999 <i>TM</i> ₁₆₄	12 29.4 232°68		5°0/29.7 18		
11 27	7 3.26	+13 29.2	1.835	2.656	14.2								

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
3301	Jansje		12 29.4 210°15	2°0/29.7	18	R	413466	2005 EA ₃₁₃		12 29.4 30°28	8°6/28.9	17	
11 27	7 3.64	+17 10.4	1.725	2.556	14.6	17.0	11 27	7 5.51	+45 11.5	1.784	2.595	15.0	20.1
12 7	6 57.04	+17 18.0	1.645	2.551	10.8	16.8	12 7	6 58.76	+46 5.2	1.735	2.608	12.3	19.9
12 17	6 47.81	+17 33.1	1.588	2.545	6.5	16.5	12 17	6 48.84	+46 41.3	1.708	2.622	9.9	19.8
12 27	6 36.83	+17 54.2	1.559	2.539	2.4	16.3	12 27	6 37.04	+46 52.7	1.706	2.636	8.6	19.8
1 6	6 25.38	+18 19.3	1.559	2.531	4.2	16.4	1 6	6 25.12	+46 36.6	1.730	2.651	9.2	19.8
1 16	6 14.80	+18 46.4	1.587	2.524	8.7	16.6	1 16	6 14.79	+45 54.9	1.780	2.667	11.2	20.0
1 26	6 6.33	+19 14.3	1.642	2.515	12.9	16.8	1 26	6 7.37	+44 54.0	1.853	2.683	13.6	20.2
2 5	6 0.77	+19 42.2	1.719	2.506	16.5	17.1	2 5	6 3.50	+43 41.4	1.947	2.700	16.0	20.4
412694	2014 OS ₂₅₈		12 29.4 266°15	0°7/29.6	17		172758	2004 DC ₁₈		12 29.4 352°95	1°8/29.2	17	
11 27	7 0.65	+18 22.1	1.921	2.753	13.2	21.1	11 27	7 0.20	+26 27.6	1.523	2.375	15.1	20.0
12 7	6 54.81	+19 4.9	1.832	2.740	9.8	20.8	12 7	6 54.90	+26 52.3	1.453	2.371	11.1	19.8
12 17	6 46.54	+19 56.1	1.768	2.727	5.7	20.6	12 17	6 46.71	+27 16.5	1.406	2.369	6.5	19.5
12 27	6 36.60	+20 52.7	1.732	2.714	1.4	20.3	12 27	6 36.66	+27 36.1	1.385	2.366	2.2	19.2
1 6	6 26.08	+21 50.9	1.726	2.700	3.5	20.4	1 6	6 26.19	+27 47.8	1.392	2.365	4.4	19.4
1 16	6 16.20	+22 47.1	1.749	2.686	7.9	20.6	1 16	6 16.82	+27 50.8	1.425	2.364	9.2	19.6
1 26	6 8.12	+23 39.1	1.799	2.672	11.9	20.8	1 26	6 9.89	+27 46.4	1.482	2.363	13.5	19.9
2 5	6 2.66	+24 26.0	1.873	2.658	15.3	21.0	2 5	6 6.17	+27 37.1	1.560	2.364	17.1	20.1
334052	2001 OM ₄		12 29.4 72°23	5°0/29.2	18		13683	1997 PV ₃		12 29.4 156°06	1°5/29.5	18	
11 27	7 10.65	+34 26.1	1.426	2.263	16.7	20.9	11 27	6 58.45	+18 57.0	2.439	3.265	11.0	18.4
12 7	7 2.26	+34 57.4	1.388	2.293	12.5	20.8	12 7	6 52.54	+18 39.1	2.364	3.268	8.1	18.2
12 17	6 50.65	+35 17.4	1.372	2.322	8.2	20.6	12 17	6 44.91	+18 24.0	2.314	3.271	4.8	18.0
12 27	6 37.32	+35 19.9	1.382	2.352	5.1	20.5	12 27	6 36.27	+18 11.5	2.294	3.274	1.8	17.8
1 6	6 24.18	+35 2.8	1.419	2.381	6.4	20.6	1 6	6 27.46	+18 1.4	2.304	3.276	3.1	17.9
1 16	6 12.98	+34 28.9	1.484	2.409	10.1	20.9	1 16	6 19.33	+17 53.7	2.345	3.278	6.4	18.1
1 26	6 4.98	+33 44.0	1.573	2.438	13.8	21.2	1 26	6 12.67	+17 48.7	2.413	3.281	9.5	18.3
2 5	6 0.68	+32 54.5	1.683	2.465	16.9	21.5	2 5	6 7.98	+17 46.2	2.506	3.282	12.1	18.5
167248	2003 UL ₉₉		12 29.4 87°02	9°0/31.1	18		256046	2006 UY ₈₉		12 29.4 177°75	2°2/29.0	17	
11 27	7 0.95	- 0 32.7	1.849	2.626	15.8	19.8	11 27	7 2.03	+28 40.5	2.105	2.937	12.2	21.2
12 7	6 54.46	- 1 29.7	1.803	2.651	13.2	19.7	12 7	6 55.57	+29 8.7	2.030	2.938	9.0	21.0
12 17	6 46.00	- 2 6.4	1.779	2.675	10.7	19.6	12 17	6 46.84	+29 34.4	1.981	2.939	5.4	20.8
12 27	6 36.44	- 2 19.3	1.780	2.699	9.1	19.5	12 27	6 36.67	+29 53.8	1.961	2.939	2.4	20.6
1 6	6 26.85	- 2 7.9	1.808	2.723	9.3	19.6	1 6	6 26.19	+30 4.4	1.970	2.939	4.0	20.7
1 16	6 18.26	- 1 34.4	1.862	2.746	10.9	19.7	1 16	6 16.58	+30 5.7	2.009	2.939	7.6	20.9
1 26	6 11.54	- 0 43.4	1.941	2.769	13.2	19.9	1 26	6 8.86	+29 59.1	2.074	2.939	11.0	21.1
2 5	6 7.20	+ 0 19.3	2.041	2.792	15.4	20.1	2 5	6 3.72	+29 47.0	2.163	2.938	13.9	21.3
233801	2008 UW ₁₁₃		12 29.4 347°01	3°4/28.8	18		290710	2005 UP ₄₁₂		12 29.4 88°22	2°5/29.7	18	
11 27	6 59.30	+31 38.6	2.024	2.862	12.4	20.6	11 27	6 59.36	+16 27.0	2.041	2.869	12.7	21.1
12 7	6 53.76	+32 12.9	1.950	2.858	9.3	20.3	12 7	6 53.38	+16 10.7	1.977	2.881	9.4	20.9
12 17	6 45.86	+32 42.5	1.900	2.854	5.9	20.1	12 17	6 45.46	+16 0.2	1.937	2.892	5.8	20.7
12 27	6 36.45	+33 3.5	1.878	2.851	3.5	20.0	12 27	6 36.38	+15 55.3	1.926	2.903	2.7	20.5
1 6	6 26.71	+33 12.8	1.884	2.848	4.8	20.1	1 6	6 27.17	+15 55.8	1.944	2.914	3.9	20.6
1 16	6 17.83	+33 10.1	1.919	2.846	8.1	20.3	1 16	6 18.81	+16 0.9	1.992	2.925	7.4	20.9
1 26	6 10.90	+32 57.1	1.979	2.844	11.4	20.5	1 26	6 12.19	+16 10.0	2.066	2.936	10.7	21.1
2 5	6 6.62	+32 36.8	2.062	2.842	14.3	20.6	2 5	6 7.84	+16 22.3	2.163	2.947	13.6	21.3
176619	2002 GP ₁₁₂		12 29.4 124°18	2°4/28.9	18		56708	2000 MZ		12 29.4 158°98	0°1/29.4	18	
11 27	7 7.82	+27 2.1	1.677	2.512	14.8	20.2	11 27	7 4.52	+24 10.5	1.801	2.636	13.9	19.5
12 7	7 0.08	+27 54.2	1.620	2.529	10.8	20.0	12 7	6 57.48	+24 0.4	1.731	2.641	10.1	19.3
12 17	6 49.49	+28 45.0	1.587	2.545	6.4	19.8	12 17	6 47.94	+23 49.6	1.684	2.645	5.8	19.0
12 27	6 37.16	+29 28.8	1.582	2.561	2.6	19.6	12 27	6 36.88	+23 36.1	1.666	2.649	1.1	18.7
1 6	6 24.58	+30 1.2	1.606	2.576	4.6	19.8	1 6	6 25.60	+23 19.4	1.677	2.652	3.6	18.9
1 16	6 13.27	+30 20.8	1.660	2.590	8.8	20.1	1 16	6 15.41	+23 0.0	1.718	2.655	8.1	19.2
1 26	6 4.48	+30 29.2	1.739	2.603	12.7	20.3	1 26	6 7.41	+22 39.7	1.785	2.657	12.0	19.4
2 5	5 58.93	+30 29.8	1.840	2.616	15.9	20.6	2 5	6 2.26	+22 20.3	1.874	2.659	15.4	19.6
8860	Rohloff		12 29.4 139°93	7°5/28.3	18		452475	2004 BW ₁₅		12 29.4 348°10	6°9/31.5	18	
11 27	7 8.72	+42 3.6	1.905	2.716	14.2	17.0	11 27	6 58.09	+ 4 2.4	1.533	2.347	16.9	20.0
12 7	7 1.03	+43 8.9	1.844	2.722	11.4	16.8	12 7	6 53.16	+ 4 21.4	1.459	2.342	13.6	19.8
12 17	6 50.17	+44 0.6	1.806	2.728	8.9	16.7	12 17	6 45.67	+ 5 4.0	1.406	2.338	10.0	19.5
12 27	6 37.31	+44 31.1	1.795	2.734	7.5	16.6	12 27	6 36.48	+ 6 11.1	1.377	2.334	7.2	19.4
1 6	6 24.08	+44 36.0	1.811	2.740	8.3	16.7	1 6	6 26.79	+ 7 39.8	1.375	2.331	7.4	19.4
1 16	6 12.18	+44 16.0	1.854	2.745	10.6	16.8	1 16	6 17.95	+ 9 24.2	1.401	2.329	10.4	19.5
1 26	6 3.05	+43 36.2	1.922	2.749	13.3	17.0	1 26	6 11.17	+11 16.8	1.451	2.327	14.1	19.7
2 5	5 57.44	+42 43.6	2.010	2.754	15.8	17.2	2 5	6 7.25	+13 10.3	1.524	2.326	17.5	20.0
453732	2011 BN ₅₅		12 29.4 135°81	0°3/29.4	17		478562	2012 TG ₆₀		12 29.4 10°05	7°8/28.3	18	
11 27	7 0.59	+25 12.4	2.272	3.103	11.5	21.3	11 27	7 1.96	+35 45.0	1.131	1.992	18.5	20.0
12 7	6 54.20	+24 58.3	2.198	3.107	8.4	21.2	12 7	6 57.27	+37 7.8	1.079	1.994	14.3	19.8
12 17	6 45.89	+24 42.4	2.151	3.111	4.8	20.9	12 17	6 48.51	+38 20.6	1.047	1.997	10.2	19.6
12 27	6 36.45	+24 23.7	2.132	3.114	1.0	20.7	12 27	6 37.05	+39 12.1	1.038	2.002	7.8	19.4
1 6	6 26.85	+24 1.9	2.144	3.118	3.0	20.8	1 6	6 25.07	+39 35.0	1.053	2.008	9.3	19.5
1 16	6 18.09	+23 37.6	2.186	3.122	6.7	21.1	1 16	6 14.83	+39 28.9	1.091	2.015	13.1	19.8
1 26	6 11.03	+23 12.3	2.256	3.125	10.0	21.3	1 26	6 8.19	+38 59.6	1.150	2.023	17.1	20.0
2 5	6 6.22	+22 47.7	2.349	3.128	12.8	21.5	2 5	6 5.98	+38 15.6	1.226	2.033	20.7	20.3
296867	2009 XC ₉		12 29.4 8°25	1°6/29.4	18		270158	2001 SP ₁₃₇		12 29.4 101°26	0°0/29.2	18	R
11 27	6 52.27	+26 52.0	0.749	1.648	21.1	18.5	11 27	7 5.36	+22 40.6	1.667			

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
405692	2005 <i>UH</i> ₃₃₈	12 29.4 147°31'		2°2/29.7 18			88834	2001 <i>SJ</i> ₁₆₉	12 29.4 211°63'		0°1/29.4 18		
11 27	6 59.08	+16 39.4	2.153	2.979	12.2	21.8	11 27	7 0.35	+22 38.8	2.067	2.901	12.4	20.5
12 7	6 53.20	+16 31.5	2.079	2.983	9.0	21.6	12 7	6 54.34	+22 53.3	1.989	2.899	9.0	20.3
12 17	6 45.38	+16 29.2	2.031	2.986	5.5	21.4	12 17	6 46.15	+23 9.7	1.935	2.896	5.2	20.1
12 27	6 36.39	+16 32.1	2.012	2.990	2.4	21.2	12 27	6 36.59	+23 25.8	1.911	2.893	1.0	19.8
1 6	6 27.18	+16 39.5	2.022	2.993	3.7	21.3	1 6	6 26.69	+23 39.8	1.916	2.890	3.2	19.9
1 16	6 18.73	+16 50.6	2.062	2.996	7.1	21.5	1 16	6 17.58	+23 50.6	1.950	2.887	7.3	20.2
1 26	6 11.90	+17 4.5	2.129	2.998	10.5	21.7	1 26	6 10.24	+23 58.3	2.012	2.884	10.9	20.4
2 5	6 7.27	+17 20.5	2.219	3.001	13.4	21.9	2 5	6 5.33	+24 3.7	2.096	2.880	14.0	20.6
112012	2002 <i>GL</i> ₁₅₉	12 29.4 78°52'		4°6/29.0 18			200034	2007 <i>RG</i> ₃₀	12 29.4 26°61'		8°9/ 1.1 18		
11 27	7 10.23	+32 9.8	1.331	2.174	17.3	19.0	11 27	6 55.48	- 5 22.7	2.271	3.021	14.1	19.9
12 7	7 2.25	+32 55.3	1.289	2.199	12.9	18.8	12 7	6 50.49	- 5 47.1	2.202	3.023	12.1	19.7
12 17	6 50.82	+33 32.3	1.270	2.225	8.2	18.6	12 17	6 43.82	- 5 51.0	2.155	3.026	10.3	19.6
12 27	6 37.45	+33 53.5	1.277	2.250	4.8	18.5	12 27	6 36.13	- 5 31.5	2.132	3.030	9.1	19.6
1 6	6 24.11	+33 55.4	1.310	2.274	6.4	18.7	1 6	6 28.22	- 4 48.7	2.135	3.033	9.0	19.6
1 16	6 12.68	+33 39.4	1.370	2.299	10.5	19.0	1 16	6 20.93	- 3 44.8	2.165	3.037	10.2	19.6
1 26	6 4.54	+33 10.8	1.454	2.323	14.5	19.3	1 26	6 15.05	- 2 24.3	2.220	3.040	12.0	19.8
2 5	6 0.29	+32 35.6	1.558	2.346	17.8	19.5	2 5	6 11.08	- 0 52.7	2.298	3.044	14.0	19.9
113467	2002 <i>SO</i> ₅₄	12 29.4 174°20'		4°8/30.1 18			474889	2005 <i>SA</i> ₁₇₁	12 29.4 66°17'		0°8/29.4 18		
11 27	6 56.38	+ 7 52.1	2.450	3.253	11.7	20.0	11 27	7 5.43	+24 49.0	1.356	2.205	16.7	21.3
12 7	6 51.03	+ 7 24.0	2.374	3.253	9.2	19.9	12 7	6 58.56	+24 56.4	1.308	2.225	12.1	21.0
12 17	6 44.08	+ 7 6.1	2.323	3.254	6.7	19.7	12 17	6 48.67	+25 3.3	1.283	2.245	6.9	20.8
12 27	6 36.14	+ 6 59.8	2.300	3.254	5.0	19.6	12 27	6 37.07	+25 6.6	1.283	2.266	1.5	20.5
1 6	6 28.00	+ 7 5.4	2.306	3.255	5.4	19.6	1 6	6 25.44	+25 4.1	1.311	2.286	4.3	20.8
1 16	6 20.46	+ 7 22.0	2.341	3.255	7.6	19.8	1 16	6 15.39	+24 56.3	1.366	2.306	9.3	21.1
1 26	6 14.24	+ 7 48.0	2.403	3.255	10.1	19.9	1 26	6 8.17	+24 45.1	1.445	2.326	13.7	21.4
2 5	6 9.87	+ 8 20.9	2.488	3.255	12.5	20.1	2 5	6 4.37	+24 32.7	1.545	2.347	17.3	21.7
490948	2011 <i>CO</i> ₉₈	12 29.4 117°88'		0°2/29.4 17			331076	2009 <i>WE</i> ₇₂	12 29.4 163°03'		3°4/29.8 17		
11 27	6 59.63	+23 22.3	2.353	3.183	11.2	21.2	11 27	6 57.77	+12 59.0	2.422	3.238	11.4	21.6
12 7	6 53.45	+23 9.0	2.282	3.190	8.1	21.0	12 7	6 52.06	+12 33.5	2.347	3.241	8.6	21.4
12 17	6 45.46	+22 55.5	2.237	3.197	4.6	20.8	12 17	6 44.68	+12 14.9	2.297	3.243	5.7	21.2
12 27	6 36.41	+22 40.9	2.221	3.203	0.9	20.5	12 27	6 36.29	+12 3.8	2.276	3.245	3.5	21.1
1 6	6 27.23	+22 25.0	2.235	3.209	2.8	20.7	1 6	6 27.72	+12 0.4	2.285	3.247	4.3	21.1
1 16	6 18.83	+22 8.0	2.280	3.216	6.4	20.9	1 16	6 19.80	+12 4.3	2.323	3.248	7.0	21.3
1 26	6 12.02	+21 50.9	2.353	3.222	9.6	21.1	1 26	6 13.27	+12 14.6	2.389	3.250	9.8	21.5
2 5	6 7.35	+21 34.7	2.449	3.228	12.3	21.3	2 5	6 8.67	+12 30.1	2.479	3.251	12.4	21.7
514843	2008 <i>DE</i> ₃₇	12 29.4 201°70'		11°2/27.9 18			63823	2001 <i>RL</i> ₇₀	12 29.4 64°72'		2°8/29.3 18		
11 27	7 21.29	+54 9.8	2.052	2.804	15.3	22.2	11 27	7 5.95	+29 29.1	1.402	2.249	16.4	19.8
12 7	7 11.03	+55 26.8	1.984	2.800	13.4	22.1	12 7	6 59.03	+29 40.8	1.350	2.265	12.0	19.6
12 17	6 56.31	+56 22.1	1.937	2.795	11.9	22.0	12 17	6 48.99	+29 47.0	1.320	2.280	7.2	19.3
12 27	6 38.61	+56 44.8	1.915	2.789	11.2	21.9	12 27	6 37.15	+29 43.2	1.316	2.296	3.0	19.1
1 6	6 20.32	+56 29.3	1.919	2.782	11.7	22.0	1 6	6 25.22	+29 27.6	1.340	2.311	5.0	19.3
1 16	6 3.98	+55 37.1	1.947	2.774	13.2	22.0	1 16	6 14.90	+29 1.5	1.390	2.327	9.6	19.6
1 26	5 51.57	+54 16.3	1.998	2.765	15.1	22.1	1 26	6 7.46	+28 28.9	1.465	2.343	13.8	19.9
2 5	5 43.96	+52 38.0	2.069	2.756	17.0	22.3	2 5	6 3.54	+27 54.0	1.560	2.359	17.3	20.1
365028	2008 <i>RP</i> ₁₄₅	12 29.4 46°06'		1°5/29.3 17			216749	2005 <i>NR</i> ₃₉	12 29.4 189°48'		0°0/29.3 18		
11 27	7 0.63	+28 22.7	2.054	2.890	12.4	20.4	11 27	7 1.29	+20 34.5	2.196	3.023	12.0	20.8
12 7	6 54.43	+28 16.7	1.988	2.898	9.0	20.2	12 7	6 54.97	+21 21.6	2.116	3.022	8.7	20.6
12 17	6 46.11	+28 6.8	1.946	2.905	5.3	20.0	12 17	6 46.52	+22 13.9	2.062	3.021	5.0	20.4
12 27	6 36.55	+27 51.0	1.933	2.913	1.8	19.8	12 27	6 36.69	+23 7.8	2.037	3.020	1.0	20.1
1 6	6 26.86	+27 28.7	1.949	2.922	3.5	19.9	1 6	6 26.46	+24 0.1	2.044	3.018	3.1	20.3
1 16	6 18.15	+27 0.8	1.995	2.930	7.2	20.2	1 16	6 16.89	+24 47.9	2.081	3.016	7.0	20.5
1 26	6 11.36	+26 29.6	2.067	2.939	10.7	20.4	1 26	6 8.97	+25 30.0	2.146	3.013	10.5	20.7
2 5	6 7.05	+25 57.3	2.163	2.947	13.6	20.6	2 5	6 3.39	+26 6.3	2.235	3.011	13.5	20.9
484393	2007 <i>WM</i> ₁₅	12 29.4 16°36'		1°5/29.6 17			99816	2002 <i>LH</i> ₄₉	12 29.4 42°30'		1°3/29.5 17		
11 27	6 58.44	+19 46.4	1.270	2.130	16.9	21.2	11 27	6 59.31	+20 53.1	2.014	2.850	12.6	19.2
12 7	6 53.73	+19 42.4	1.214	2.136	12.4	20.9	12 7	6 53.43	+20 25.5	1.947	2.857	9.2	19.0
12 17	6 46.05	+19 44.5	1.180	2.143	7.3	20.6	12 17	6 45.54	+19 59.5	1.905	2.865	5.4	18.8
12 27	6 36.56	+19 51.3	1.170	2.151	2.1	20.3	12 27	6 36.47	+19 35.0	1.892	2.873	1.6	18.6
1 6	6 26.81	+20 0.9	1.185	2.161	4.5	20.5	1 6	6 27.27	+19 12.2	1.908	2.881	3.4	18.7
1 16	6 18.38	+20 12.2	1.226	2.171	9.6	20.9	1 16	6 18.97	+18 51.9	1.952	2.889	7.2	19.0
1 26	6 12.56	+20 24.5	1.291	2.183	14.3	21.2	1 26	6 12.47	+18 34.7	2.024	2.898	10.8	19.2
2 5	6 10.03	+20 37.2	1.375	2.195	18.1	21.4	2 5	6 8.32	+18 21.1	2.119	2.907	13.7	19.4
369223	2008 <i>UL</i> ₁₁₉	12 29.4 115°79'		1°0/29.3 17			319411	2006 <i>HJ</i> ₂₅	12 29.4 345°98'		3°1/29.8 18		
11 27	6 59.17	+26 24.0	2.521	3.350	10.6	21.5	11 27	7 1.64	+16 31.8	1.165	2.021	18.4	20.4
12 7	6 53.07	+26 32.4	2.452	3.359	7.7	21.3	12 7	6 56.44	+16 24.1	1.100	2.018	13.8	20.1
12 17	6 45.23	+26 39.2	2.410	3.369	4.4	21.1	12 17	6 47.84	+16 27.2	1.055	2.015	8.5	19.8
12 27	6 36.37	+26 42.6	2.397	3.378	1.3	20.9	12 27	6 36.99	+16 40.7	1.034	2.013	3.6	19.5
1 6	6 27.37	+26 41.4	2.415	3.387	2.9	21.1	1 6	6 25.60	+17 2.4	1.037	2.011	5.5	19.6
1 16	6 19.11	+26 35.6	2.463	3.396	6.2	21.3	1 16	6 15.51	+17 30.1	1.066	2.010	10.9	19.9
1 26	6 12.37	+26 26.0	2.538	3.405	9.1	21.5	1 26	6 8.31	+18 1.5	1.117	2.009	16.1	20.2
2 5	6 7.67	+26 14.0	2.639	3.413	11.7	21.7	2 5	6 4.86	+18 34.6	1.187	2.008	20.4	20.5
224883	2007 <i>BX</i> ₇₈	12 29.4 44°32'		2°7/29.8 18			109207	2001 <i>QQ</i> ₈₂	12 29.4 83°43'		2°6/29.9 18		
11 27	7 1.74	+16 53.9	1.248	2.100	17.7	20.1							

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
269337	2008 <i>TC</i> ₃₀	12 29.4 133°90		0°4/29.4 17			374783	2006 <i>TM</i> ₂₆	12 29.4 49°60		5°1/28.9 18		
11 27	6 59.05	+24 6.2	2.630	3.457	10.2	21.9	11 27	7 6.63	+31 35.9	1.151	2.008	18.5	20.3
12 7	6 52.93	+24 17.2	2.561	3.467	7.4	21.7	12 7	7 0.18	+32 32.4	1.108	2.026	13.8	20.0
12 17	6 45.15	+24 28.2	2.518	3.477	4.2	21.5	12 17	6 49.93	+33 21.5	1.087	2.044	8.8	19.8
12 27	6 36.40	+24 37.6	2.504	3.487	0.9	21.3	12 27	6 37.42	+33 54.7	1.089	2.063	5.2	19.7
1 6	6 27.50	+24 44.2	2.522	3.496	2.6	21.4	1 6	6 24.78	+34 7.0	1.117	2.082	7.0	19.8
1 16	6 19.27	+24 47.5	2.571	3.505	5.9	21.6	1 16	6 14.08	+33 59.1	1.169	2.102	11.4	20.2
1 26	6 12.48	+24 47.9	2.647	3.513	8.8	21.8	1 26	6 6.87	+33 36.0	1.244	2.122	15.7	20.5
2 5	6 7.62	+24 46.2	2.749	3.521	11.3	22.0	2 5	6 3.81	+33 4.4	1.337	2.142	19.4	20.8
67643	2000 <i>SK</i> ₂₁₈	12 29.4 98°21		0°0/29.3 18			154482	2003 <i>EX</i> ₂₅	12 29.4 212°51		2°1/29.1 18		
11 27	7 7.41	+20 52.1	1.456	2.295	16.3	18.3	11 27	7 4.25	+27 18.6	1.769	2.606	14.0	20.6
12 7	6 59.87	+21 29.1	1.406	2.318	11.8	18.1	12 7	6 57.64	+27 47.9	1.692	2.603	10.3	20.4
12 17	6 49.41	+22 11.0	1.379	2.341	6.7	17.9	12 17	6 48.28	+28 16.0	1.639	2.599	6.1	20.1
12 27	6 37.25	+22 53.3	1.380	2.363	1.3	17.6	12 27	6 37.12	+28 38.4	1.614	2.594	2.3	19.9
1 6	6 24.96	+23 31.8	1.409	2.384	4.1	17.8	1 6	6 25.50	+28 51.8	1.618	2.589	4.3	20.0
1 16	6 14.11	+24 4.2	1.467	2.405	9.0	18.1	1 16	6 14.87	+28 55.4	1.650	2.584	8.6	20.2
1 26	6 5.95	+24 30.3	1.550	2.425	13.3	18.4	1 26	6 6.49	+28 50.6	1.709	2.578	12.6	20.5
2 5	6 1.12	+24 51.1	1.654	2.445	16.8	18.7	2 5	6 1.16	+28 40.3	1.789	2.572	16.0	20.7
494043	2016 <i>BU</i> ₂₃	12 29.4 192°09		2°9/30.3 18			141537	2002 <i>GY</i> ₁₀	12 29.4 153°61		3°0/28.9 18		
11 27	6 57.75	+11 58.0	2.353	3.168	11.7	21.0	11 27	7 7.98	+29 18.8	1.765	2.596	14.3	20.7
12 7	6 52.19	+12 22.7	2.273	3.167	8.9	20.8	12 7	7 0.28	+30 2.7	1.699	2.605	10.5	20.5
12 17	6 44.84	+12 57.6	2.219	3.167	5.7	20.6	12 17	6 49.74	+30 43.4	1.657	2.613	6.4	20.3
12 27	6 36.37	+13 41.7	2.193	3.166	3.1	20.4	12 27	6 37.40	+31 15.1	1.644	2.621	3.2	20.1
1 6	6 27.60	+14 32.8	2.198	3.166	3.8	20.5	1 6	6 24.72	+31 34.1	1.661	2.628	4.9	20.2
1 16	6 19.41	+15 28.3	2.233	3.165	6.8	20.7	1 16	6 13.22	+31 39.5	1.706	2.634	8.8	20.5
1 26	6 12.63	+16 25.7	2.296	3.164	9.9	20.8	1 26	6 4.17	+31 33.6	1.777	2.639	12.6	20.7
2 5	6 7.84	+17 22.7	2.384	3.163	12.6	21.0	2 5	5 58.33	+31 20.3	1.870	2.643	15.8	20.9
5721	1984 <i>SO</i> ₅	12 29.4 53°78		2°0/29.8 18			5287	Heishu	12 29.4 28°79		4°0/30.2 18		
11 27	7 0.16	+17 8.3	1.646	2.485	14.7	17.3	11 27	6 58.51	+13 16.3	1.344	2.190	17.0	15.9
12 7	6 54.42	+17 15.0	1.586	2.497	10.9	17.1	12 7	6 53.55	+13 15.1	1.292	2.203	12.8	15.7
12 17	6 46.26	+17 29.3	1.550	2.508	6.5	16.8	12 17	6 45.90	+13 27.4	1.262	2.217	8.2	15.5
12 27	6 36.65	+17 49.8	1.540	2.520	2.5	16.6	12 27	6 36.63	+13 52.9	1.257	2.232	4.4	15.3
1 6	6 26.83	+18 14.5	1.559	2.532	4.0	16.7	1 6	6 27.17	+14 29.0	1.278	2.248	5.4	15.4
1 16	6 18.06	+18 41.4	1.605	2.544	8.3	17.0	1 16	6 18.94	+15 12.5	1.324	2.264	9.6	15.7
1 26	6 11.40	+19 9.1	1.677	2.556	12.3	17.3	1 26	6 13.11	+15 59.8	1.395	2.282	13.8	16.0
2 5	6 7.50	+19 36.5	1.771	2.569	15.6	17.5	2 5	6 10.32	+16 47.9	1.486	2.300	17.3	16.3
521970	2015 <i>VM</i> ₁₆₁	12 29.4 320°69		0°7/29.3 17			103177	1999 <i>XU</i> ₂₃₄	12 29.4 46°85		4°6/29.9 18		
11 27	7 0.31	+23 24.7	1.891	2.730	13.1	21.6	11 27	7 0.33	+13 4.3	1.483	2.320	16.2	19.2
12 7	6 54.53	+23 54.5	1.816	2.729	9.6	21.4	12 7	6 54.64	+12 33.0	1.428	2.333	12.2	18.9
12 17	6 46.38	+24 26.7	1.766	2.727	5.5	21.2	12 17	6 46.43	+12 12.9	1.395	2.346	8.0	18.7
12 27	6 36.71	+24 58.0	1.744	2.726	1.2	20.9	12 27	6 36.74	+12 5.4	1.388	2.360	4.8	18.6
1 6	6 26.66	+25 25.6	1.751	2.725	3.5	21.0	1 6	6 26.89	+12 10.0	1.408	2.374	5.8	18.7
1 16	6 17.45	+25 47.7	1.787	2.724	7.8	21.3	1 16	6 18.22	+12 25.6	1.455	2.388	9.6	18.9
1 26	6 10.17	+26 4.2	1.849	2.723	11.6	21.5	1 26	6 11.82	+12 49.8	1.526	2.403	13.4	19.2
2 5	6 5.55	+26 16.1	1.933	2.722	14.8	21.7	2 5	6 8.30	+13 19.7	1.617	2.418	16.7	19.5
442891	2013 <i>BN</i> ₆₀	12 29.4 40°64		7°0/29.6 17			115600	2003 <i>UR</i> ₉₉	12 29.4 357°44		7°7/27.5 18		
11 27	7 8.93	+41 10.9	1.623	2.445	15.8	20.9	11 27	7 5.45	+37 55.6	1.581	2.415	15.5	19.5
12 7	7 1.32	+41 28.1	1.560	2.450	12.5	20.7	12 7	6 59.30	+39 36.0	1.517	2.414	12.2	19.3
12 17	6 50.37	+41 28.5	1.521	2.455	9.2	20.5	12 17	6 49.60	+41 7.8	1.476	2.413	9.2	19.1
12 27	6 37.47	+41 5.8	1.506	2.460	7.1	20.4	12 27	6 37.44	+42 20.4	1.462	2.412	7.7	19.0
1 6	6 24.49	+40 18.0	1.519	2.466	7.8	20.4	1 6	6 24.54	+43 6.6	1.474	2.412	9.0	19.1
1 16	6 13.22	+39 8.6	1.558	2.472	10.7	20.6	1 16	6 12.86	+43 24.3	1.511	2.412	11.9	19.2
1 26	6 5.03	+37 44.9	1.623	2.478	14.0	20.8	1 26	6 4.10	+43 17.4	1.572	2.413	15.1	19.4
2 5	6 0.55	+36 15.4	1.708	2.484	17.0	21.0	2 5	5 59.23	+42 53.0	1.652	2.413	18.0	19.6
6035	Citlaltépetl	12 29.4 215°39		11°7/31.6 18 R			113145	2002 <i>RK</i> ₉₃	12 29.4 127°19		1°6/29.3 18		
11 27	7 0.99	-10 9.6	2.062	2.781	16.2	18.6	11 27	7 0.25	+28 45.5	2.489	3.317	10.7	20.1
12 7	6 54.77	-11 5.0	1.984	2.773	14.5	18.4	12 7	6 53.94	+28 48.7	2.418	3.324	7.8	19.9
12 17	6 46.44	-11 36.1	1.926	2.764	12.8	18.3	12 17	6 45.80	+28 48.5	2.373	3.330	4.6	19.7
12 27	6 36.73	-11 37.8	1.891	2.754	11.8	18.2	12 27	6 36.60	+28 42.8	2.357	3.337	1.8	19.5
1 6	6 26.61	-11 7.7	1.880	2.744	11.9	18.2	1 6	6 27.26	+28 30.7	2.372	3.343	3.2	19.6
1 16	6 17.14	-10 7.4	1.895	2.732	13.0	18.2	1 16	6 18.71	+28 12.6	2.417	3.349	6.4	19.8
1 26	6 9.31	-8 41.8	1.933	2.720	14.8	18.3	1 26	6 11.75	+27 50.1	2.490	3.355	9.3	20.0
2 5	6 3.78	-6 58.3	1.991	2.708	16.8	18.5	2 5	6 6.92	+27 25.2	2.587	3.360	11.9	20.2
451101	2009 <i>DR</i> ₁₆	12 29.4 290°71		5°6/29.3 17			40038	1998 <i>KT</i> ₂₂	12 29.4 233°01		2°9/28.8 18		
11 27	7 6.49	+37 39.1	1.713	2.541	14.8	21.3	11 27	7 3.63	+28 16.1	1.864	2.700	13.4	18.8
12 7	6 59.57	+37 57.4	1.634	2.531	11.5	21.1	12 7	6 57.22	+29 12.7	1.784	2.693	9.9	18.6
12 17	6 49.47	+38 3.5	1.578	2.521	8.0	20.9	12 17	6 48.10	+30 9.0	1.729	2.686	6.1	18.3
12 27	6 37.35	+37 51.3	1.548	2.512	5.8	20.7	12 27	6 37.12	+30 59.3	1.702	2.679	3.0	18.1
1 6	6 24.81	+37 18.1	1.546	2.502	6.8	20.7	1 6	6 25.57	+31 38.9	1.704	2.671	4.8	18.2
1 16	6 13.56	+36 25.6	1.571	2.492	10.1	20.9	1 16	6 14.85	+32 5.5	1.735	2.663	8.7	18.4
1 26	6 5.03	+35 19.3	1.622	2.482	13.7	21.1	1 26	6 6.27	+32 19.8	1.792	2.655	12.5	18.6
2 5	6 0.01	+34 6.3	1.694	2.473	17.0	21.3	2 5	6 0.65	+32 24.5	1.871	2.647	15.7	18.8
428517	2007 <i>YW</i> ₆₉	12 29.4 332°90		0°7/29.3 18			403640	2010 <i>TS</i> ₂	12 29.4 70°77		1°1/29.3 15		
11 27	7 1.66	+22 11.5	1.181	2.042	17.8	20.7	11 27	7 1.56	+25 59.9				

EPHEMERIDES

12 29.4

12 29.5

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
418614	2008 <i>SJ</i> ₂₉₁		12 29.4	82°90	0°8/29.4	18	461024	2014 <i>WV</i> ₄₃₀		12 29.4	53°36	3°8/29.7	17
11 27	7 2.61	+27 9.7	2.316	3.142	11.5	20.3	11 27	6 58.33	+13 35.5	2.078	2.901	12.7	20.9
12 7	6 55.53	+26 50.9	2.259	3.165	8.3	20.1	12 7	6 52.65	+12 54.6	2.014	2.912	9.6	20.7
12 17	6 46.63	+26 28.8	2.229	3.187	4.8	20.0	12 17	6 45.13	+12 20.8	1.975	2.922	6.3	20.5
12 27	6 36.78	+26 2.4	2.228	3.210	1.2	19.7	12 27	6 36.54	+11 55.5	1.964	2.933	3.9	20.4
1 6	6 26.96	+25 31.7	2.258	3.231	3.0	19.9	1 6	6 27.83	+11 39.4	1.982	2.945	4.8	20.4
1 16	6 18.12	+24 58.1	2.319	3.253	6.4	20.2	1 16	6 19.94	+11 32.4	2.029	2.956	7.7	20.6
1 26	6 11.07	+24 23.4	2.408	3.275	9.5	20.4	1 26	6 13.69	+11 33.8	2.102	2.967	10.8	20.9
2 5	6 6.25	+23 49.7	2.521	3.296	12.1	20.6	2 5	6 9.62	+11 42.0	2.198	2.979	13.5	21.1
518774	2009 <i>WL</i> ₂₃₇		12 29.4	94°32	4°5/28.4	18	249280	2008 <i>SK</i> ₂₆₇		12 29.4	19°23	2°9/29.7	17
11 27	7 3.64	+35 14.8	2.331	3.151	11.6	21.3	11 27	6 57.34	+16 6.2	1.867	2.703	13.4	20.2
12 7	6 56.70	+36 18.6	2.276	3.170	8.8	21.2	12 7	6 52.20	+15 40.9	1.801	2.708	10.0	20.0
12 17	6 47.53	+37 15.5	2.247	3.188	6.1	21.1	12 17	6 44.98	+15 22.0	1.759	2.714	6.2	19.8
12 27	6 37.00	+38 0.1	2.246	3.207	4.5	21.0	12 27	6 36.52	+15 9.9	1.744	2.721	3.1	19.6
1 6	6 26.23	+38 29.4	2.276	3.225	5.5	21.1	1 6	6 27.87	+15 4.7	1.758	2.727	4.3	19.7
1 16	6 16.37	+38 42.6	2.335	3.242	7.9	21.3	1 16	6 20.09	+15 6.0	1.799	2.735	7.9	19.9
1 26	6 8.44	+38 41.8	2.420	3.260	10.5	21.5	1 26	6 14.10	+15 13.0	1.867	2.743	11.4	20.1
2 5	6 3.04	+38 30.6	2.528	3.277	12.8	21.6	2 5	6 10.49	+15 24.4	1.957	2.751	14.5	20.4
494664	2001 <i>TZ</i> ₁₈		12 29.4	45°39	9°0/28.7	18	456166	2006 <i>GD</i> ₅₁		12 29.4	281°34	0°4/29.6	18
11 27	7 9.51	+42 23.8	1.450	2.276	17.1	20.1	11 27	6 58.51	+20 2.4	2.207	3.038	11.8	20.4
12 7	7 2.02	+43 45.5	1.420	2.306	13.7	20.0	12 7	6 53.02	+20 35.2	2.122	3.030	8.6	20.2
12 17	6 50.87	+44 48.4	1.412	2.337	10.6	19.9	12 17	6 45.51	+21 13.2	2.062	3.022	5.0	20.0
12 27	6 37.65	+45 23.3	1.428	2.368	9.0	19.9	12 27	6 36.65	+21 53.9	2.031	3.014	1.1	19.7
1 6	6 24.47	+45 26.4	1.470	2.399	9.8	20.0	1 6	6 27.39	+22 34.6	2.031	3.005	3.0	19.8
1 16	6 13.31	+45 0.6	1.536	2.431	12.1	20.2	1 16	6 18.74	+23 13.2	2.060	2.997	6.9	20.1
1 26	6 5.61	+44 13.5	1.625	2.463	14.9	20.4	1 26	6 11.64	+23 48.2	2.117	2.989	10.4	20.3
2 5	6 1.94	+43 14.0	1.734	2.495	17.3	20.7	2 5	6 6.78	+24 19.5	2.197	2.981	13.4	20.5
161350	2003 <i>SM</i> ₁₄₀		12 29.4	92°35	2°3/29.9	18	273179	2006 <i>HZ</i> ₈₄		12 29.4	5°09	5°4/29.9	17
11 27	7 3.44	+15 39.0	1.885	2.709	13.8	20.5	11 27	6 56.39	+10 17.9	1.781	2.608	14.3	19.8
12 7	6 56.40	+15 49.3	1.835	2.737	10.2	20.4	12 7	6 51.60	+9 32.8	1.713	2.608	11.1	19.6
12 17	6 47.25	+16 7.2	1.810	2.764	6.2	20.2	12 17	6 44.68	+8 58.8	1.668	2.609	7.9	19.5
12 27	6 36.93	+16 31.2	1.813	2.790	2.6	20.0	12 27	6 36.47	+8 38.2	1.649	2.611	5.6	19.3
1 6	6 26.57	+16 59.3	1.845	2.817	3.9	20.1	1 6	6 28.02	+8 32.0	1.657	2.613	6.3	19.4
1 16	6 17.26	+17 29.6	1.908	2.842	7.6	20.4	1 16	6 20.40	+8 39.6	1.692	2.616	9.2	19.5
1 26	6 9.94	+18 0.6	1.997	2.867	11.1	20.7	1 26	6 14.57	+8 59.1	1.752	2.620	12.4	19.8
2 5	6 5.13	+18 31.2	2.110	2.891	14.0	20.9	2 5	6 11.14	+9 27.5	1.834	2.625	15.4	20.0
226939	2004 <i>TO</i> ₃₁₀		12 29.4	103°91	0°2/29.5	17	443635	2014 <i>NW</i> ₆₁		12 29.5	165°18	1°5/29.1	18
11 27	7 0.62	+23 22.2	2.197	3.028	11.8	20.0	11 27	7 1.99	+24 47.1	2.009	2.843	12.7	21.1
12 7	6 54.31	+23 6.7	2.128	3.036	8.6	19.8	12 7	6 55.73	+25 38.3	1.935	2.845	9.2	20.9
12 17	6 46.07	+22 51.0	2.085	3.045	4.9	19.6	12 17	6 47.13	+26 31.4	1.887	2.847	5.4	20.7
12 27	6 36.71	+22 34.2	2.070	3.053	1.0	19.4	12 27	6 36.99	+27 22.1	1.867	2.848	1.7	20.4
1 6	6 27.21	+22 16.0	2.086	3.061	3.0	19.5	1 6	6 26.44	+28 6.4	1.878	2.849	3.7	20.6
1 16	6 18.57	+21 57.0	2.132	3.068	6.8	19.8	1 16	6 16.69	+28 42.1	1.917	2.850	7.7	20.8
1 26	6 11.65	+21 38.1	2.205	3.076	10.1	20.0	1 26	6 8.83	+29 8.8	1.984	2.851	11.3	21.1
2 5	6 7.00	+21 20.6	2.302	3.084	13.0	20.2	2 5	6 3.58	+29 28.0	2.074	2.852	14.3	21.3
257292	2009 <i>HK</i> ₄₅		12 29.4	263°60	0°6/29.5	18	197385	2003 <i>YM</i> ₅		12 29.5	1°56	4°5/30.1	17
11 27	7 1.59	+21 24.4	2.054	2.885	12.5	21.3	11 27	6 55.98	+11 53.7	1.758	2.591	14.3	20.1
12 7	6 55.45	+21 21.6	1.957	2.865	9.3	21.1	12 7	6 51.37	+11 29.0	1.688	2.590	10.9	19.9
12 17	6 46.99	+21 21.0	1.884	2.843	5.4	20.8	12 17	6 44.60	+11 15.0	1.641	2.589	7.4	19.7
12 27	6 36.94	+21 21.1	1.840	2.822	1.3	20.5	12 27	6 36.48	+11 13.1	1.621	2.589	4.7	19.5
1 6	6 26.36	+21 20.7	1.825	2.800	3.4	20.6	1 6	6 28.08	+11 23.1	1.627	2.591	5.5	19.6
1 16	6 16.43	+21 19.3	1.841	2.777	7.6	20.8	1 16	6 20.50	+11 43.7	1.661	2.592	8.7	19.8
1 26	6 8.24	+21 17.5	1.883	2.754	11.6	21.0	1 26	6 14.72	+12 12.8	1.720	2.595	12.2	20.0
2 5	6 2.56	+21 15.8	1.948	2.731	14.9	21.2	2 5	6 11.40	+12 47.5	1.800	2.598	15.4	20.2
339170	2004 <i>TQ</i> ₈₉		12 29.4	5°05	1°0/29.6	16	96692	1999 <i>JJ</i> ₇₃		12 29.5	191°31	0°0/29.4	18
11 27	6 59.18	+20 20.0	1.231	2.092	17.3	20.8	11 27	7 5.61	+21 39.7	1.745	2.578	14.3	20.6
12 7	6 54.54	+20 27.2	1.169	2.091	12.7	20.5	12 7	6 58.61	+22 9.5	1.668	2.577	10.5	20.3
12 17	6 46.74	+20 40.9	1.128	2.092	7.4	20.2	12 17	6 48.89	+22 43.4	1.615	2.575	6.1	20.1
12 27	6 36.90	+20 58.7	1.111	2.093	1.8	19.9	12 27	6 37.36	+23 18.1	1.590	2.573	1.2	19.7
1 6	6 26.63	+21 17.9	1.120	2.096	4.5	20.0	1 6	6 25.36	+23 49.9	1.595	2.570	3.7	19.9
1 16	6 17.65	+21 36.5	1.154	2.099	10.0	20.4	1 16	6 14.29	+24 16.8	1.629	2.566	8.5	20.2
1 26	6 11.39	+21 53.8	1.211	2.104	14.9	20.7	1 26	6 5.43	+24 38.4	1.690	2.561	12.7	20.4
2 5	6 8.64	+22 9.6	1.287	2.110	19.0	20.9	2 5	5 59.57	+24 55.7	1.772	2.556	16.2	20.7
291714	2006 <i>JL</i> ₂₀		12 29.4	116°54	1°7/28.9	18	328452	2008 <i>TB</i> ₁₂₂		12 29.5	140°91	4°1/29.8	17
11 27	6 59.70	+25 59.0	2.438	3.268	10.9	20.6	11 27	6 58.02	+10 43.4	2.538	3.345	11.2	20.6
12 7	6 53.72	+26 51.6	2.366	3.273	7.9	20.4	12 7	6 52.19	+10 1.1	2.466	3.351	8.6	20.5
12 17	6 45.81	+27 44.5	2.320	3.279	4.6	20.2	12 17	6 44.81	+9 26.3	2.419	3.357	6.0	20.3
12 27	6 36.69	+28 34.4	2.305	3.284	1.8	20.0	12 27	6 36.50	+9 0.3	2.402	3.362	4.2	20.2
1 6	6 27.25	+29 17.8	2.320	3.290	3.4	20.1	1 6	6 28.06	+8 44.1	2.414	3.368	4.8	20.3
1 16	6 18.47	+29 53.1	2.365	3.295	6.6	20.4	1 16	6 20.25	+8 37.6	2.456	3.373	7.1	20.4
1 26	6 11.22	+30 20.0	2.439	3.300	9.6	20.6	1 26	6 13.77	+8 40.0	2.526	3.378	9.7	20.6
2 5	6 6.12	+30 39.5	2.536	3.305	12.2	20.8	2 5	6 9.12	+8 49.8	2.619	3.382	12.0	20.8
457360	2008 <i>SN</i> ₂₆₉		12 29.4	311°35	4°6/29.9	18	156815	2003 <i>BJ</i> ₅₂		12 29.5	312°58	0°0/29.3	18
11 27	6												

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
47802	2000 <i>EZ</i> ₅₆		12 29.5 312°27	2.7/29.8	18		340935	2007 <i>EP</i> ₂₁		12 29.5 113°20	4.4/30.2	18	
11 27	6 57.24	+15 39.6	2.082	2.912	12.4	19.1	11 27	7 2.59	+11 56.4	1.646	2.471	15.4	21.4
12 7	6 52.11	+15 25.8	1.998	2.902	9.3	18.8	12 7	6 56.20	+11 44.2	1.584	2.482	11.7	21.2
12 17	6 44.98	+15 18.5	1.938	2.892	5.9	18.6	12 17	6 47.38	+11 43.9	1.546	2.493	7.7	21.0
12 27	6 36.57	+15 17.7	1.906	2.882	2.9	18.4	12 27	6 37.08	+11 55.9	1.534	2.504	4.6	20.8
1 6	6 27.83	+15 23.0	1.904	2.873	4.0	18.5	1 6	6 26.57	+12 19.0	1.550	2.515	5.5	20.9
1 16	6 19.74	+15 33.8	1.930	2.864	7.5	18.7	1 16	6 17.10	+12 51.0	1.594	2.525	9.1	21.1
1 26	6 13.23	+15 49.1	1.982	2.855	11.0	18.8	1 26	6 9.77	+13 29.3	1.664	2.535	12.8	21.4
2 5	6 8.96	+16 7.7	2.058	2.847	14.0	19.0	2 5	6 5.21	+14 11.0	1.756	2.545	16.1	21.6
40534	1999 <i>RT</i> ₁₀₂		12 29.5 178°24	2.4/29.6	18		226975	2004 <i>XM</i> ₁₆		12 29.5 274°78	1.9/29.1	18	
11 27	7 5.03	+17 38.1	1.787	2.614	14.3	18.5	11 27	7 13.62	+26 1.0	1.097	1.947	19.7	19.1
12 7	6 57.93	+17 15.5	1.712	2.616	10.6	18.2	12 7	7 5.55	+24 12.6	1.021	1.938	14.7	18.8
12 17	6 48.36	+16 57.7	1.662	2.618	6.5	18.0	12 17	6 53.27	+22 9.9	0.966	1.929	8.6	18.4
12 27	6 37.25	+16 44.6	1.640	2.619	2.7	17.8	12 27	6 38.31	+19 55.7	0.938	1.920	2.5	18.0
1 6	6 25.84	+16 36.0	1.648	2.619	4.3	17.9	1 6	6 22.92	+17 38.1	0.937	1.910	5.9	18.2
1 16	6 15.41	+16 31.8	1.684	2.618	8.5	18.1	1 16	6 9.44	+15 28.7	0.962	1.901	12.5	18.6
1 26	6 7.09	+16 32.1	1.748	2.617	12.4	18.3	1 26	5 59.67	+13 37.4	1.011	1.892	18.3	18.9
2 5	6 1.56	+16 36.5	1.833	2.615	15.8	18.6	2 5	5 54.42	+12 8.7	1.079	1.883	23.1	19.1
266816	2009 <i>TO</i> ₆		12 29.5 44°27	4.6/29.1	17		66684	1999 <i>TY</i> ₃₆		12 29.5 287°74	13.6/31.9	18	
11 27	7 3.11	+35 6.3	1.828	2.661	13.8	20.0	11 27	6 58.13	- 9 49.3	1.668	2.412	18.6	18.5
12 7	6 56.67	+35 33.2	1.772	2.675	10.4	19.8	12 7	6 52.99	-11 10.1	1.611	2.415	16.6	18.3
12 17	6 47.63	+35 50.9	1.740	2.688	7.0	19.7	12 17	6 45.57	-12 2.3	1.572	2.418	14.8	18.2
12 27	6 37.09	+35 54.8	1.735	2.703	4.7	19.6	12 27	6 36.73	-12 19.5	1.555	2.422	13.7	18.2
1 6	6 26.42	+35 43.0	1.758	2.717	5.7	19.7	1 6	6 27.60	-11 59.3	1.560	2.426	13.7	18.2
1 16	6 17.01	+35 16.4	1.809	2.732	8.8	19.9	1 16	6 19.36	-11 3.8	1.587	2.430	14.8	18.3
1 26	6 9.96	+34 38.9	1.885	2.747	12.0	20.1	1 26	6 13.04	- 9 39.1	1.635	2.435	16.5	18.4
2 5	6 5.87	+33 55.1	1.983	2.762	14.8	20.3	2 5	6 9.31	- 7 54.3	1.702	2.440	18.5	18.5
132026	2002 <i>CO</i> ₁₁₄		12 29.5 219°86	1.7/29.1	18		421451	2014 <i>MN</i> ₆₁		12 29.5 210°61	1.7/29.4	17	
11 27	7 3.29	+25 40.3	1.851	2.687	13.5	20.2	11 27	7 3.92	+29 2.9	2.164	2.991	12.1	21.4
12 7	6 56.92	+26 20.2	1.772	2.682	9.9	19.9	12 7	6 56.94	+28 54.0	2.082	2.987	8.9	21.2
12 17	6 47.93	+27 1.0	1.717	2.677	5.8	19.7	12 17	6 47.74	+28 40.2	2.025	2.983	5.3	20.9
12 27	6 37.20	+27 38.6	1.691	2.672	2.0	19.4	12 27	6 37.16	+28 19.4	1.998	2.978	1.9	20.7
1 6	6 25.97	+28 9.0	1.694	2.666	4.0	19.5	1 6	6 26.34	+27 50.8	2.001	2.973	3.5	20.8
1 16	6 15.60	+28 30.4	1.726	2.660	8.3	19.8	1 16	6 16.42	+27 15.6	2.034	2.967	7.3	21.0
1 26	6 7.31	+28 43.2	1.784	2.653	12.2	20.0	1 26	6 8.40	+26 36.3	2.095	2.961	10.8	21.2
2 5	6 1.90	+28 49.3	1.864	2.647	15.5	20.2	2 5	6 2.93	+25 55.9	2.179	2.955	13.8	21.4
288407	2004 <i>DB</i> ₂₇		12 29.5 237°50	0.7/29.6	18		326260	2012 <i>DE</i> ₆₇		12 29.5 190°49	1.0/29.6	17	
11 27	7 3.74	+20 11.8	1.790	2.623	14.0	21.7	11 27	6 59.39	+19 44.6	2.107	2.939	12.2	21.4
12 7	6 57.30	+20 26.5	1.702	2.611	10.4	21.4	12 7	6 53.64	+19 50.6	2.030	2.938	9.0	21.2
12 17	6 48.19	+20 46.3	1.638	2.597	6.1	21.1	12 17	6 45.85	+20 0.6	1.979	2.938	5.2	21.0
12 27	6 37.26	+21 8.7	1.602	2.584	1.5	20.8	12 27	6 36.79	+20 13.0	1.956	2.938	1.5	20.7
1 6	6 25.74	+21 31.4	1.595	2.569	3.7	20.9	1 6	6 27.44	+20 26.6	1.963	2.937	3.2	20.8
1 16	6 15.00	+21 52.4	1.617	2.554	8.4	21.2	1 16	6 18.83	+20 40.3	1.999	2.937	7.1	21.1
1 26	6 6.30	+22 11.4	1.665	2.538	12.7	21.4	1 26	6 11.90	+20 53.6	2.063	2.936	10.6	21.3
2 5	6 0.48	+22 28.5	1.735	2.522	16.3	21.6	2 5	6 7.27	+21 6.4	2.149	2.935	13.6	21.5
364312	2006 <i>UD</i> ₄₇		12 29.5 329°16	7.1/27.5	17		272002	2005 <i>CN</i> ₅₀		12 29.5 283°49	0.3/29.4	18	
11 27	7 3.58	+36 48.2	1.660	2.495	14.8	20.9	11 27	6 58.89	+23 59.7	2.331	3.164	11.2	21.0
12 7	6 57.88	+38 23.5	1.587	2.486	11.6	20.7	12 7	6 53.30	+24 4.5	2.235	3.144	8.2	20.8
12 17	6 48.85	+39 52.1	1.538	2.478	8.6	20.5	12 17	6 45.70	+24 9.6	2.164	3.124	4.7	20.6
12 27	6 37.43	+41 4.8	1.516	2.470	7.1	20.4	12 27	6 36.77	+24 13.4	2.122	3.105	1.0	20.2
1 6	6 25.21	+41 54.2	1.520	2.462	8.3	20.4	1 6	6 27.43	+24 14.5	2.110	3.085	3.0	20.4
1 16	6 13.98	+42 17.7	1.550	2.455	11.4	20.6	1 16	6 18.66	+24 12.4	2.128	3.065	6.8	20.6
1 26	6 5.41	+42 17.9	1.604	2.448	14.7	20.8	1 26	6 11.42	+24 7.6	2.174	3.045	10.2	20.8
2 5	6 0.50	+42 0.9	1.678	2.442	17.7	21.0	2 5	6 6.37	+24 1.2	2.243	3.024	13.2	20.9
227971	2007 <i>HY</i> ₃₆		12 29.5 203°75	4.1/28.6	18		9204	Mörrike		12 29.5 344°23	1.5/29.5	18	
11 27	7 2.08	+34 37.1	2.378	3.200	11.3	20.4	11 27	7 2.81	+21 23.4	1.347	2.198	16.7	16.9
12 7	6 55.68	+35 23.2	2.301	3.198	8.6	20.2	12 7	6 57.02	+20 53.8	1.277	2.195	12.3	16.7
12 17	6 47.06	+36 3.4	2.251	3.196	5.9	20.0	12 17	6 48.13	+20 25.9	1.230	2.192	7.2	16.4
12 27	6 37.02	+36 33.2	2.229	3.193	4.1	19.9	12 27	6 37.27	+19 59.4	1.208	2.190	2.1	16.1
1 6	6 26.62	+36 49.5	2.237	3.191	5.1	20.0	1 6	6 26.02	+19 34.6	1.213	2.188	4.5	16.2
1 16	6 16.98	+36 51.7	2.274	3.188	7.7	20.2	1 16	6 16.04	+19 12.5	1.244	2.186	9.9	16.5
1 26	6 9.13	+36 41.6	2.337	3.185	10.5	20.3	1 26	6 8.71	+18 54.6	1.299	2.185	14.7	16.8
2 5	6 3.74	+36 22.3	2.424	3.181	13.0	20.5	2 5	6 4.81	+18 41.7	1.374	2.184	18.7	17.0
153039	2000 <i>QH</i> ₄		12 29.5 189°35	1.1/29.6	18		181998	1999 <i>VC</i> ₂₁₂		12 29.5 178°18	2.9/29.7	18	
11 27	7 3.02	+19 23.2	2.140	2.964	12.4	21.6	11 27	7 4.13	+16 49.2	1.679	2.510	14.9	20.7
12 7	6 56.25	+19 27.0	2.059	2.963	9.1	21.4	12 7	6 57.42	+16 22.7	1.606	2.511	11.1	20.4
12 17	6 47.34	+19 34.7	2.004	2.961	5.4	21.2	12 17	6 48.15	+16 2.1	1.557	2.512	6.9	20.2
12 27	6 37.07	+19 44.8	1.978	2.959	1.6	20.9	12 27	6 37.26	+15 47.6	1.536	2.513	3.2	20.0
1 6	6 26.49	+19 55.9	1.982	2.956	3.3	21.1	1 6	6 26.07	+15 39.3	1.543	2.513	4.7	20.0
1 16	6 16.66	+20 7.2	2.017	2.952	7.2	21.3	1 16	6 15.89	+15 37.1	1.578	2.513	8.9	20.3
1 26	6 8.58	+20 18.3	2.080	2.947	10.8	21.5	1 26	6 7.89	+15 40.5	1.640	2.512	12.9	20.5
2 5	6 2.87	+20 29.4	2.166	2.942	13.8	21.7	2 5	6 2.77	+15 48.8	1.723	2.510	16.4	20.8
343837	2011 <i>HB</i> ₃₀		12 29.5 216°18	1.5/29.7	18		491974	2013 <i>EZ</i> ₁₂		12 29.5 20°54	9.9/1.3	17	
11 27	7 3.25	+1											

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
365924	2011 YQ ₃₃		12 29.5 207°78	1.8°/29.2	17		18056	1999 TV ₁₅		12 29.5 226°90	2.8°/29.8	18	
11 27	7 1.45	+26 43.1	1.991	2.827	12.7	21.5	11 27	7 3.03	+16 7.7	1.591	2.425	15.4	17.8
12 7	6 55.38	+27 14.0	1.916	2.826	9.3	21.3	12 7	6 56.88	+16 1.0	1.513	2.420	11.5	17.5
12 17	6 46.97	+27 44.3	1.866	2.825	5.5	21.1	12 17	6 47.99	+16 2.7	1.458	2.414	7.1	17.3
12 27	6 37.05	+28 10.3	1.844	2.824	2.0	20.8	12 27	6 37.30	+16 12.2	1.430	2.408	3.2	17.0
1 6	6 26.77	+28 29.2	1.851	2.823	3.8	20.9	1 6	6 26.11	+16 28.3	1.430	2.402	4.7	17.1
1 16	6 17.33	+28 39.8	1.887	2.821	7.7	21.2	1 16	6 15.87	+16 49.4	1.458	2.395	9.2	17.3
1 26	6 9.81	+28 43.0	1.950	2.820	11.3	21.4	1 26	6 7.84	+17 14.1	1.511	2.388	13.5	17.6
2 5	6 4.92	+28 40.6	2.036	2.818	14.4	21.6	2 5	6 2.84	+17 41.0	1.585	2.381	17.2	17.8
211374	Anthonyrose		12 29.5 241°84	4.6°/28.3	18		282057	1999 TH ₁₉₃		12 29.5 51°40	1.3°/29.5	17	
11 27	7 4.53	+33 35.6	2.034	2.861	12.8	20.7	11 27	7 5.43	+27 4.5	1.389	2.238	16.4	19.9
12 7	6 57.94	+34 41.0	1.951	2.851	9.8	20.5	12 7	6 58.54	+26 56.2	1.345	2.261	11.9	19.7
12 17	6 48.62	+35 42.2	1.894	2.841	6.6	20.3	12 17	6 48.74	+26 44.4	1.324	2.286	6.9	19.5
12 27	6 37.42	+36 32.5	1.864	2.830	4.7	20.1	12 27	6 37.38	+26 26.6	1.328	2.310	1.9	19.3
1 6	6 25.58	+37 7.3	1.864	2.819	5.9	20.2	1 6	6 26.12	+26 2.1	1.360	2.335	4.2	19.5
1 16	6 14.53	+37 24.5	1.893	2.807	9.0	20.3	1 16	6 16.48	+25 32.8	1.420	2.360	9.0	19.8
1 26	6 5.57	+37 25.8	1.947	2.796	12.3	20.5	1 26	6 9.63	+25 1.6	1.503	2.385	13.3	20.1
2 5	5 59.56	+37 15.2	2.024	2.784	15.2	20.7	2 5	6 6.10	+24 31.4	1.608	2.410	16.7	20.4
17586	1995 AT ₂		12 29.5 333°83	2.1°/29.2	18		335400	2005 TY ₂₁		12 29.5 109°18	3.4°/29.0	18	
11 27	7 4.50	+26 20.9	1.278	2.133	17.2	18.6	11 27	7 7.85	+30 1.4	1.674	2.508	14.8	21.1
12 7	6 58.65	+26 51.0	1.211	2.130	12.7	18.3	12 7	7 0.26	+30 46.9	1.619	2.527	10.9	20.9
12 17	6 49.27	+27 21.2	1.165	2.128	7.5	18.0	12 17	6 49.81	+31 27.8	1.589	2.544	6.7	20.7
12 27	6 37.55	+27 46.0	1.145	2.126	2.5	17.7	12 27	6 37.63	+31 58.4	1.586	2.562	3.5	20.6
1 6	6 25.28	+28 0.9	1.150	2.124	5.1	17.9	1 6	6 25.27	+32 14.9	1.612	2.579	5.1	20.7
1 16	6 14.35	+28 4.6	1.182	2.122	10.5	18.2	1 16	6 14.25	+32 17.2	1.667	2.595	9.0	21.0
1 26	6 6.42	+27 59.2	1.236	2.121	15.4	18.4	1 26	6 5.81	+32 8.0	1.747	2.611	12.7	21.2
2 5	6 2.34	+27 48.2	1.310	2.119	19.5	18.7	2 5	6 0.63	+31 51.4	1.848	2.626	15.8	21.5
418508	2008 SY ₂₆		12 29.5 201°30	4.4°/28.8	18		113713	2002 TO ₁₃₂		12 29.5 79°33	3.0°/29.9	18	
11 27	7 2.58	+37 5.8	2.557	3.372	10.9	21.8	11 27	6 57.71	+14 15.7	2.308	3.129	11.7	19.1
12 7	6 55.93	+37 39.9	2.480	3.369	8.4	21.6	12 7	6 52.15	+13 52.0	2.240	3.138	8.8	18.9
12 17	6 47.17	+38 6.2	2.428	3.367	5.9	21.4	12 17	6 44.90	+13 34.7	2.196	3.146	5.7	18.8
12 27	6 37.08	+38 20.7	2.405	3.364	4.4	21.3	12 27	6 36.64	+13 24.4	2.182	3.154	3.2	18.6
1 6	6 26.71	+38 21.0	2.412	3.360	5.2	21.4	1 6	6 28.23	+13 21.1	2.196	3.162	4.0	18.7
1 16	6 17.11	+38 7.1	2.448	3.357	7.5	21.5	1 16	6 20.52	+13 24.2	2.241	3.170	6.9	18.9
1 26	6 9.26	+37 41.3	2.511	3.353	10.1	21.7	1 26	6 14.28	+13 33.1	2.312	3.178	9.9	19.1
2 5	6 3.79	+37 7.2	2.597	3.349	12.4	21.8	2 5	6 10.03	+13 46.5	2.407	3.186	12.5	19.3
279513	2011 AB ₇₇		12 29.5 167°42	0.6°/29.4	18		195944	2002 RJ ₁₃₄		12 29.5 42°21	4.9°/31.0	18	
11 27	7 0.81	+25 50.4	2.493	3.319	10.8	21.0	11 27	6 58.40	+7 41.8	1.807	2.622	14.7	19.1
12 7	6 54.38	+25 41.8	2.416	3.322	7.8	20.8	12 7	6 52.89	+7 56.2	1.759	2.647	11.3	18.9
12 17	6 46.16	+25 31.4	2.365	3.324	4.5	20.6	12 17	6 45.38	+8 26.2	1.734	2.673	7.8	18.8
12 27	6 36.87	+25 17.6	2.345	3.327	1.1	20.3	12 27	6 36.74	+9 11.1	1.736	2.700	5.2	18.7
1 6	6 27.41	+25 0.2	2.355	3.328	2.8	20.5	1 6	6 28.01	+10 8.2	1.767	2.727	5.6	18.8
1 16	6 18.69	+24 39.5	2.395	3.330	6.2	20.7	1 16	6 20.24	+11 13.6	1.825	2.754	8.3	19.0
1 26	6 11.53	+24 16.8	2.464	3.331	9.3	20.9	1 26	6 14.30	+12 23.2	1.910	2.781	11.4	19.2
2 5	6 6.46	+23 53.7	2.558	3.332	12.0	21.1	2 5	6 10.71	+13 33.2	2.018	2.809	14.2	19.5
230017	2000 GE ₁₆₄		12 29.5 236°55	1.4°/29.0	18		329516	2002 RK ₂₆₇		12 29.5 120°88	0.6°/29.3	18	
11 27	6 59.53	+25 36.5	2.738	3.563	9.9	20.4	11 27	6 58.99	+23 21.6	2.415	3.245	10.9	20.8
12 7	6 53.57	+26 24.5	2.647	3.552	7.3	20.2	12 7	6 53.20	+23 55.4	2.343	3.251	7.9	20.6
12 17	6 45.80	+27 13.7	2.583	3.541	4.3	20.0	12 17	6 45.57	+24 31.0	2.296	3.256	4.5	20.4
12 27	6 36.82	+28 0.7	2.549	3.529	1.5	19.8	12 27	6 36.79	+25 5.7	2.279	3.261	1.1	20.1
1 6	6 27.43	+28 42.9	2.547	3.517	3.0	19.9	1 6	6 27.75	+25 37.1	2.293	3.266	2.9	20.3
1 16	6 18.51	+29 18.4	2.576	3.505	6.2	20.1	1 16	6 19.37	+26 3.7	2.336	3.271	6.4	20.5
1 26	6 10.89	+29 46.5	2.634	3.493	9.1	20.2	1 26	6 12.49	+26 25.2	2.408	3.276	9.5	20.7
2 5	6 5.21	+30 8.1	2.716	3.480	11.6	20.4	2 5	6 7.69	+26 42.1	2.504	3.281	12.2	20.9
370348	2002 RX ₂₆₇		12 29.5 230°35	4.0°/28.8	18		287689	2003 QN ₂₁		12 29.5 74°52	16.1°/6.3	18	
11 27	7 1.56	+35 39.7	2.549	3.367	10.8	20.9	11 27	7 0.50	-21 56.7	1.816	2.467	20.2	20.2
12 7	6 55.21	+36 14.0	2.467	3.361	8.3	20.8	12 7	6 54.54	-22 52.0	1.771	2.482	18.7	20.1
12 17	6 46.77	+36 41.5	2.412	3.355	5.7	20.6	12 17	6 46.39	-23 11.1	1.742	2.498	17.4	20.0
12 27	6 37.01	+36 58.5	2.385	3.348	4.1	20.5	12 27	6 36.95	-22 48.3	1.730	2.513	16.4	20.0
1 6	6 26.92	+37 2.4	2.389	3.341	4.9	20.5	1 6	6 27.39	-21 42.6	1.738	2.528	16.1	20.0
1 16	6 17.56	+36 53.1	2.421	3.334	7.4	20.7	1 16	6 18.82	-19 57.6	1.766	2.543	16.4	20.0
1 26	6 9.88	+36 32.5	2.481	3.327	10.0	20.8	1 26	6 12.23	-17 41.5	1.815	2.558	17.2	20.1
2 5	6 4.52	+36 3.9	2.564	3.320	12.4	21.0	2 5	6 8.18	-15 4.9	1.883	2.573	18.4	20.3
459361	2012 JE ₂		12 29.5 319°86	2.5°/28.9	18		60738	2000 GK ₈₇		12 29.5 202°78	1.1°/29.7	18	
11 27	7 0.22	+27 46.5	2.026	2.863	12.4	20.6	11 27	7 0.62	+19 12.5	2.214	3.041	11.9	19.7
12 7	6 54.58	+28 38.3	1.948	2.858	9.2	20.3	12 7	6 54.51	+19 21.6	2.132	3.038	8.8	19.5
12 17	6 46.57	+29 30.0	1.895	2.853	5.5	20.1	12 17	6 46.39	+19 34.9	2.076	3.034	5.2	19.2
12 27	6 37.00	+30 16.9	1.870	2.848	2.6	19.9	12 27	6 36.98	+19 51.0	2.049	3.030	1.5	19.0
1 6	6 26.96	+30 55.0	1.875	2.844	4.2	20.0	1 6	6 27.24	+20 8.4	2.052	3.025	3.1	19.1
1 16	6 17.68	+31 22.4	1.909	2.839	7.9	20.2	1 16	6 18.18	+20 25.9	2.085	3.020	6.9	19.3
1 26	6 10.26	+31 39.4	1.969	2.835	11.4	20.4	1 26	6 10.74	+20 42.9	2.145	3.015	10.4	19.5
2 5	6 5.44	+31 47.7	2.051	2.831	14.4	20.6	2 5	6 5.53	+20 59.3	2.229	3.009	13.4	19.7
376639	2013 PS ₇₀		12 29.5 131°87	4.2°/30.4	17		350862	2002 NS ₅₈		12 29.5 337°47	8.8°/1.9	18	
11 27	6 57.18	+8 54.1	2.514	3.318	11.4	22.0	11 27	7 0.87					

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
392315	2010 <i>ES</i> ₇		12 29.5 182°74	11°1/29.9	18		102405	1999 <i>TP</i> ₁₇₂		12 29.5 43°96	1°7/29.7	18	R
11 27	7 0.46	-9 2.0	2.284	3.003	14.8	20.8	11 27	7 6.03	+19 13.0	0.969	1.833	20.6	18.6
12 7	6 54.23	-10 35.4	2.218	3.003	13.2	20.7	12 7	6 59.45	+19 15.1	0.942	1.865	14.9	18.4
12 17	6 46.15	-11 48.7	2.173	3.004	11.8	20.6	12 17	6 49.39	+19 25.6	0.936	1.899	8.6	18.1
12 27	6 36.93	-12 36.4	2.152	3.003	11.1	20.5	12 27	6 37.55	+19 41.4	0.952	1.933	2.5	17.9
1 6	6 27.43	-12 55.9	2.157	3.002	11.3	20.6	1 6	6 26.01	+19 59.3	0.993	1.968	5.0	18.2
1 16	6 18.57	-12 47.1	2.186	3.001	12.3	20.6	1 16	6 16.59	+20 17.6	1.058	2.004	10.6	18.6
1 26	6 11.19	-12 13.2	2.238	2.999	13.8	20.7	1 26	6 10.57	+20 35.4	1.146	2.040	15.5	19.0
2 5	6 5.88	-11 19.8	2.309	2.997	15.4	20.8	2 5	6 8.38	+20 52.3	1.252	2.076	19.3	19.4
150694	2001 <i>OM</i> ₉₆		12 29.5 140°80	1°9/29.4	18		487099	2014 <i>OM</i> ₁₃₉		12 29.5 172°24	1°9/29.9	18	
11 27	7 7.74	+28 50.9	2.034	2.858	12.9	20.4	11 27	7 0.15	+16 46.2	2.116	2.941	12.4	21.9
12 7	6 59.69	+28 56.8	1.969	2.873	9.5	20.2	12 7	6 54.18	+16 51.0	2.040	2.943	9.2	21.7
12 17	6 49.30	+28 58.2	1.930	2.886	5.6	20.0	12 17	6 46.21	+17 2.1	1.989	2.944	5.6	21.5
12 27	6 37.54	+28 52.2	1.920	2.899	2.2	19.8	12 27	6 36.96	+17 18.4	1.967	2.946	2.3	21.3
1 6	6 25.68	+28 37.3	1.941	2.911	3.8	19.9	1 6	6 27.44	+17 38.6	1.974	2.946	3.5	21.4
1 16	6 14.95	+28 14.5	1.992	2.923	7.5	20.2	1 16	6 18.64	+18 1.2	2.012	2.947	7.2	21.6
1 26	6 6.37	+27 46.4	2.070	2.933	11.0	20.4	1 26	6 11.50	+18 25.2	2.076	2.947	10.6	21.8
2 5	6 0.54	+27 16.1	2.172	2.943	14.0	20.6	2 5	6 6.63	+18 49.7	2.164	2.947	13.6	22.0
268269	2005 <i>OB</i> ₂₁		12 29.5 144°94	3°4/29.2	18		279319	2009 <i>XM</i> ₆		12 29.5 269°75	2°0/29.5	18	
11 27	7 7.90	+31 21.1	1.743	2.574	14.4	21.2	11 27	6 59.29	+18 25.4	2.481	3.304	10.9	20.3
12 7	7 0.31	+31 46.2	1.678	2.583	10.7	21.0	12 7	6 53.39	+17 49.9	2.385	3.287	8.1	20.0
12 17	6 49.87	+32 5.1	1.637	2.591	6.7	20.7	12 17	6 45.70	+17 16.2	2.315	3.270	5.0	19.8
12 27	6 37.69	+32 12.9	1.623	2.598	3.6	20.6	12 27	6 36.87	+16 44.9	2.274	3.252	2.2	19.6
1 6	6 25.26	+32 6.9	1.639	2.605	5.0	20.7	1 6	6 27.73	+16 16.5	2.265	3.235	3.4	19.7
1 16	6 14.10	+31 47.8	1.683	2.612	8.9	20.9	1 16	6 19.16	+15 52.0	2.285	3.217	6.7	19.8
1 26	6 5.47	+31 19.0	1.753	2.618	12.6	21.2	1 26	6 11.98	+15 31.9	2.334	3.199	9.9	20.0
2 5	6 0.05	+30 44.9	1.845	2.623	15.8	21.4	2 5	6 6.79	+15 16.6	2.407	3.181	12.7	20.2
30628	4644 <i>P-L</i>		12 29.5 342°45	2°8/29.9	18		108574	2001 <i>MR</i> ₄		12 29.5 216°56	3°4/28.9	18	
11 27	6 59.55	+15 33.5	1.904	2.734	13.4	19.1	11 27	7 6.60	+30 33.7	1.855	2.686	13.7	20.2
12 7	6 53.91	+15 22.7	1.830	2.734	10.0	18.8	12 7	6 59.51	+31 14.2	1.773	2.678	10.3	19.9
12 17	6 46.10	+15 19.1	1.780	2.734	6.3	18.6	12 17	6 49.56	+31 51.2	1.716	2.671	6.4	19.7
12 27	6 36.94	+15 22.8	1.757	2.734	3.1	18.4	12 27	6 37.69	+32 19.0	1.687	2.662	3.5	19.5
1 6	6 27.47	+15 32.8	1.764	2.734	4.2	18.5	1 6	6 25.26	+32 33.8	1.687	2.653	5.0	19.6
1 16	6 18.81	+15 48.2	1.799	2.734	7.9	18.7	1 16	6 13.78	+32 34.5	1.716	2.643	8.9	19.8
1 26	6 11.95	+16 7.8	1.860	2.733	11.5	18.9	1 26	6 4.58	+32 23.2	1.771	2.633	12.7	20.0
2 5	6 7.53	+16 30.2	1.943	2.733	14.7	19.1	2 5	5 58.50	+32 3.9	1.848	2.622	16.0	20.2
145952	1999 <i>XL</i> ₂₀₁		12 29.5 44°11	4°2/29.3	18		434599	2005 <i>UG</i> ₂₇₇		12 29.5 106°92	1°1/29.4	18	
11 27	7 6.41	+31 47.5	1.210	2.065	18.0	18.9	11 27	7 6.47	+25 2.5	1.694	2.529	14.6	21.9
12 7	6 59.99	+32 7.9	1.160	2.076	13.4	18.7	12 7	6 59.08	+25 24.1	1.639	2.549	10.6	21.7
12 17	6 49.92	+32 19.8	1.131	2.089	8.4	18.4	12 17	6 49.07	+25 45.3	1.608	2.568	6.1	21.5
12 27	6 37.70	+32 17.2	1.125	2.102	4.4	18.3	12 27	6 37.54	+26 2.5	1.605	2.586	1.6	21.2
1 6	6 25.35	+31 57.5	1.146	2.115	6.1	18.4	1 6	6 25.88	+26 13.1	1.631	2.604	3.8	21.4
1 16	6 14.82	+31 22.8	1.192	2.129	10.8	18.7	1 16	6 15.48	+26 16.8	1.686	2.622	8.2	21.7
1 26	6 7.61	+30 38.7	1.261	2.143	15.3	19.0	1 26	6 7.47	+26 14.9	1.767	2.639	12.2	22.0
2 5	6 4.37	+29 51.2	1.349	2.158	19.0	19.3	2 5	6 2.48	+26 9.5	1.870	2.655	15.4	22.2
483572	2004 <i>DJ</i> ₅₇		12 29.5 311°98	3°9/29.1	17		3987	Wujek		12 29.5 87°51	2°0/29.2	18	
11 27	7 2.30	+31 34.5	1.580	2.426	14.9	21.6	11 27	7 2.75	+27 22.5	1.884	2.721	13.3	16.5
12 7	6 56.86	+32 0.0	1.492	2.404	11.3	21.4	12 7	6 56.33	+27 54.2	1.823	2.733	9.7	16.3
12 17	6 48.25	+32 20.2	1.427	2.384	7.2	21.1	12 17	6 47.51	+28 24.2	1.786	2.745	5.7	16.1
12 27	6 37.43	+32 29.5	1.388	2.363	4.0	20.8	12 27	6 37.24	+28 48.5	1.778	2.757	2.2	15.9
1 6	6 25.90	+32 24.2	1.376	2.343	5.6	20.9	1 6	6 26.74	+29 4.5	1.798	2.769	4.0	16.1
1 16	6 15.34	+32 3.9	1.390	2.323	9.9	21.1	1 16	6 17.27	+29 11.3	1.848	2.781	7.8	16.3
1 26	6 7.29	+31 31.6	1.429	2.304	14.3	21.3	1 26	6 9.89	+29 10.2	1.923	2.793	11.4	16.6
2 5	6 2.71	+30 52.4	1.488	2.286	18.1	21.5	2 5	6 5.25	+29 3.7	2.021	2.804	14.5	16.8
367000	2006 <i>AY</i> ₈		12 29.5 58°33	2°5/30.1	18		337403	2001 <i>QT</i> ₂₀₇		12 29.5 92°46	0°5/29.6	18	
11 27	6 58.91	+14 21.5	1.943	2.771	13.3	20.8	11 27	7 5.56	+20 48.4	1.595	2.432	15.3	21.2
12 7	6 53.35	+14 40.2	1.878	2.781	9.9	20.6	12 7	6 58.44	+21 6.3	1.544	2.454	11.1	21.0
12 17	6 45.73	+15 8.3	1.838	2.791	6.2	20.4	12 17	6 48.71	+21 28.2	1.516	2.476	6.4	20.8
12 27	6 36.85	+15 44.5	1.825	2.802	2.9	20.2	12 27	6 37.47	+21 51.2	1.515	2.498	1.4	20.5
1 6	6 27.74	+16 26.5	1.842	2.813	3.9	20.3	1 6	6 26.13	+22 12.6	1.544	2.519	3.7	20.7
1 16	6 19.45	+17 11.6	1.887	2.823	7.5	20.6	1 16	6 16.07	+22 31.0	1.601	2.539	8.4	21.0
1 26	6 12.90	+17 57.5	1.959	2.834	11.0	20.8	1 26	6 8.41	+22 46.3	1.683	2.559	12.4	21.3
2 5	6 8.71	+18 42.4	2.055	2.845	14.0	21.0	2 5	6 3.77	+22 59.3	1.788	2.579	15.8	21.6
372088	2008 <i>SJ</i> ₅₇		12 29.5 70°70	1°1/29.7	17		291570	2006 <i>FJ</i> ₃₂		12 29.5 187°10	4°3/28.5	18	
11 27	6 58.32	+19 36.1	2.235	3.066	11.7	21.4	11 27	7 2.29	+39 11.4	3.142	3.944	9.4	21.4
12 7	6 52.73	+19 36.2	2.165	3.072	8.5	21.2	12 7	6 55.48	+39 50.7	3.064	3.943	7.3	21.2
12 17	6 45.30	+19 39.9	2.120	3.079	5.0	21.0	12 17	6 46.86	+40 22.3	3.014	3.942	5.4	21.1
12 27	6 36.76	+19 46.0	2.104	3.086	1.5	20.8	12 27	6 37.11	+40 42.6	2.992	3.941	4.3	21.0
1 6	6 28.03	+19 53.6	2.118	3.092	3.0	20.9	1 6	6 27.09	+40 49.6	3.001	3.938	4.9	21.1
1 16	6 20.03	+20 1.9	2.162	3.099	6.6	21.1	1 16	6 17.70	+40 43.1	3.040	3.936	6.7	21.2
1 26	6 13.60	+20 10.6	2.232	3.105	9.9	21.3	1 26	6 9.78	+40 24.9	3.106	3.933	8.8	21.3
2 5	6 9.30	+20 19.6	2.327	3.112	12.7	21.6	2 5	6 3.88	+39 58.0	3.196	3.929	10.7	21.5
7962	1994 <i>WG</i> ₃		12 29.5 71°94	0°3/29.6	18		104882	2000 <i>HK</i> ₁₀₃		12 29.5 54°43	0°1/29.5	18	
11 27	7 7.74	+20 36.8											

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
481801	2008 <i>TS</i> ₉₇		12 29.5 309°58	1°9/29.6 18			234599	2001 <i>YZ</i> ₁₂₅		12 29.5 55°40	5°2/28.6 18		
11 27	7 1.85	+19 58.4	1.478	2.325	15.7	20.7	11 27	7 5.89	+31 56.4	1.392	2.239	16.5	19.7
12 7	6 56.24	+19 32.2	1.401	2.315	11.7	20.5	12 7	6 59.49	+33 8.9	1.341	2.252	12.4	19.4
12 17	6 47.73	+19 9.1	1.346	2.306	7.0	20.2	12 17	6 49.69	+34 15.8	1.312	2.265	8.1	19.2
12 27	6 37.32	+18 49.1	1.317	2.298	2.4	19.9	12 27	6 37.74	+35 8.5	1.308	2.279	5.2	19.1
1 6	6 26.44	+18 32.1	1.315	2.289	4.5	20.0	1 6	6 25.45	+35 41.2	1.332	2.293	6.8	19.2
1 16	6 16.59	+18 18.7	1.340	2.281	9.5	20.3	1 16	6 14.65	+35 52.8	1.382	2.307	10.7	19.5
1 26	6 9.14	+18 9.5	1.390	2.273	14.1	20.5	1 26	6 6.85	+35 46.9	1.455	2.322	14.6	19.8
2 5	6 4.87	+18 4.8	1.460	2.265	18.0	20.7	2 5	6 2.81	+35 29.1	1.548	2.336	17.9	20.0
235351	2003 <i>UD</i> ₂₇₃		12 29.5 40°83	6°9/27.9 17			271572	2004 <i>LE</i> ₁		12 29.5 183°69	2°6/29.0 18		
11 27	7 4.09	+40 48.1	2.074	2.890	13.0	20.5	11 27	7 5.57	+27 51.6	1.763	2.598	14.1	21.3
12 7	6 57.65	+42 2.2	2.013	2.895	10.4	20.3	12 7	6 58.75	+28 37.2	1.690	2.599	10.4	21.1
12 17	6 48.45	+43 5.4	1.976	2.901	8.0	20.2	12 17	6 49.12	+29 21.8	1.641	2.599	6.3	20.8
12 27	6 37.46	+43 50.8	1.967	2.908	6.9	20.1	12 27	6 37.64	+29 59.9	1.620	2.598	2.8	20.6
1 6	6 26.06	+44 14.2	1.985	2.914	7.7	20.2	1 6	6 25.69	+30 27.3	1.628	2.598	4.6	20.7
1 16	6 15.68	+44 15.1	2.030	2.921	9.8	20.3	1 16	6 14.74	+30 42.6	1.665	2.596	8.8	21.0
1 26	6 7.62	+43 57.0	2.100	2.928	12.3	20.5	1 26	6 6.10	+30 47.0	1.728	2.594	12.7	21.2
2 5	6 2.62	+43 25.2	2.191	2.935	14.7	20.7	2 5	6 0.56	+30 43.5	1.812	2.592	16.0	21.4
107832	2001 <i>FE</i> ₇₀		12 29.5 165°43	6°1/30.7 18			367408	2008 <i>QS</i> ₃₀		12 29.5 96°13	5°4/29.4 16		
11 27	6 59.76	+4 42.4	2.202	2.993	13.2	20.1	11 27	7 6.27	+40 52.3	2.329	3.136	12.1	20.5
12 7	6 53.75	+4 18.6	2.130	2.997	10.6	19.9	12 7	6 58.65	+41 7.3	2.267	3.147	9.5	20.4
12 17	6 45.90	+4 8.8	2.081	3.001	8.0	19.7	12 17	6 48.72	+41 9.9	2.229	3.158	7.0	20.3
12 27	6 36.92	+4 14.6	2.059	3.004	6.2	19.6	12 27	6 37.51	+40 56.0	2.219	3.169	5.5	20.2
1 6	6 27.70	+4 36.1	2.066	3.007	6.5	19.7	1 6	6 26.25	+40 24.5	2.238	3.180	6.0	20.2
1 16	6 19.17	+5 11.6	2.102	3.010	8.6	19.8	1 16	6 16.16	+39 37.0	2.286	3.191	8.2	20.4
1 26	6 12.15	+5 58.2	2.164	3.012	11.3	20.0	1 26	6 8.23	+38 37.8	2.362	3.202	10.7	20.6
2 5	6 7.22	+6 52.3	2.249	3.013	13.8	20.1	2 5	6 3.02	+37 32.2	2.460	3.213	13.0	20.8
368344	2002 <i>QQ</i> ₈₄		12 29.5 47°25	2°3/29.4 16			69290	1990 <i>UQ</i> ₄		12 29.5 52°28	1°6/29.8 18		
11 27	7 2.36	+30 25.0	1.915	2.750	13.1	20.6	11 27	7 4.24	+18 33.1	1.122	1.979	18.9	18.7
12 7	6 55.87	+30 22.3	1.861	2.769	9.6	20.4	12 7	6 58.26	+18 50.0	1.077	1.997	13.8	18.5
12 17	6 47.13	+30 13.9	1.831	2.789	5.8	20.2	12 17	6 48.92	+19 16.1	1.053	2.015	8.1	18.2
12 27	6 37.15	+29 57.3	1.830	2.808	2.5	20.0	12 27	6 37.58	+19 48.1	1.052	2.034	2.3	17.9
1 6	6 27.17	+29 32.0	1.858	2.828	4.0	20.2	1 6	6 26.10	+20 22.0	1.077	2.053	4.7	18.1
1 16	6 18.35	+28 59.4	1.914	2.848	7.6	20.4	1 16	6 16.27	+20 54.9	1.128	2.072	10.3	18.5
1 26	6 11.65	+28 22.2	1.997	2.869	11.0	20.7	1 26	6 9.50	+21 25.3	1.201	2.092	15.2	18.8
2 5	6 7.59	+27 43.6	2.103	2.889	13.9	20.9	2 5	6 6.45	+21 52.6	1.293	2.112	19.1	19.2
99185	2001 <i>FQ</i> ₁₈₈		12 29.5 176°73	2°1/29.9 18			305028	2007 <i>TD</i> ₄₀₀		12 29.5 64°17	6°9/28.1 18		
11 27	7 1.24	+15 32.9	2.016	2.840	13.0	19.9	11 27	7 8.01	+36 48.0	1.593	2.425	15.5	20.0
12 7	6 55.09	+15 51.2	1.939	2.841	9.7	19.6	12 7	7 0.88	+38 24.2	1.549	2.446	12.0	19.8
12 17	6 46.80	+16 17.8	1.888	2.842	5.9	19.4	12 17	6 50.44	+39 49.9	1.528	2.467	8.7	19.7
12 27	6 37.13	+16 51.3	1.865	2.843	2.5	19.2	12 27	6 37.91	+40 55.8	1.533	2.488	7.0	19.6
1 6	6 27.11	+17 29.4	1.871	2.843	3.7	19.3	1 6	6 25.05	+41 36.1	1.566	2.509	8.1	19.7
1 16	6 17.84	+18 9.7	1.908	2.843	7.5	19.5	1 16	6 13.66	+41 50.2	1.626	2.530	10.9	20.0
1 26	6 10.30	+18 50.4	1.971	2.843	11.1	19.7	1 26	6 5.21	+41 42.6	1.709	2.551	14.0	20.2
2 5	6 5.17	+19 30.1	2.058	2.842	14.2	19.9	2 5	6 0.44	+41 20.2	1.812	2.573	16.7	20.4
286313	2001 <i>WT</i> ₆₃		12 29.5 36°77	2°4/29.1 17			404708	2014 <i>JT</i> ₅		12 29.5 148°86	1°6/29.1 18		
11 27	7 1.64	+28 3.2	1.904	2.742	13.1	20.8	11 27	7 3.48	+26 6.8	2.401	3.224	11.2	21.4
12 7	6 55.66	+28 40.3	1.832	2.743	9.6	20.5	12 7	6 56.53	+26 55.0	2.330	3.234	8.2	21.3
12 17	6 47.23	+29 15.7	1.786	2.744	5.8	20.3	12 17	6 47.55	+27 43.2	2.287	3.244	4.8	21.1
12 27	6 37.23	+29 45.3	1.767	2.745	2.5	20.1	12 27	6 37.31	+28 27.4	2.274	3.254	1.8	20.9
1 6	6 26.86	+30 5.9	1.777	2.747	4.2	20.2	1 6	6 26.77	+29 4.6	2.292	3.262	3.4	21.0
1 16	6 17.41	+30 16.3	1.816	2.748	8.0	20.5	1 16	6 16.97	+29 33.3	2.342	3.270	6.7	21.2
1 26	6 9.99	+30 17.6	1.881	2.750	11.7	20.7	1 26	6 8.83	+29 53.6	2.419	3.278	9.8	21.4
2 5	6 5.32	+30 12.3	1.968	2.752	14.8	20.9	2 5	6 2.95	+30 6.9	2.521	3.284	12.4	21.6
441154	2007 <i>TU</i> ₂₂₆		12 29.5 69°16	3°1/29.0 17			189130	2001 <i>XT</i> ₁₈₉		12 29.5 68°55	0°7/29.5 18		
11 27	7 3.74	+29 17.7	1.668	2.509	14.5	21.8	11 27	7 9.19	+23 35.5	1.447	2.286	16.4	18.8
12 7	6 57.41	+29 59.7	1.606	2.517	10.7	21.6	12 7	7 0.95	+22 56.3	1.407	2.319	11.9	18.6
12 17	6 48.29	+30 38.6	1.568	2.526	6.5	21.4	12 17	6 50.01	+22 16.6	1.390	2.351	6.8	18.4
12 27	6 37.44	+31 9.0	1.558	2.535	3.3	21.2	12 27	6 37.75	+21 36.0	1.400	2.383	1.5	18.1
1 6	6 26.28	+31 27.4	1.575	2.543	4.9	21.3	1 6	6 25.76	+20 55.6	1.440	2.414	4.0	18.4
1 16	6 16.28	+31 32.8	1.620	2.552	8.9	21.6	1 16	6 15.47	+20 17.6	1.507	2.446	8.8	18.7
1 26	6 8.69	+31 27.3	1.691	2.561	12.7	21.8	1 26	6 7.93	+19 44.3	1.600	2.477	12.9	19.0
2 5	6 4.22	+31 14.4	1.783	2.570	15.9	22.1	2 5	6 3.62	+19 16.9	1.714	2.507	16.3	19.3
523409	2017 <i>DZ</i> ₁₂₁		12 29.5 173°01	2°4/28.9 18			523438	2017 <i>EG</i> ₂₅		12 29.5 224°01	4°4/30.4 18		
11 27	7 0.31	+31 47.5	3.128	3.945	9.0	22.8	11 27	6 57.08	+8 30.2	2.442	3.246	11.7	21.7
12 7	6 53.90	+32 14.8	3.051	3.948	6.7	22.6	12 7	6 51.76	+8 19.9	2.360	3.242	9.1	21.5
12 17	6 45.90	+32 38.3	3.001	3.951	4.3	22.5	12 17	6 44.78	+8 20.2	2.303	3.237	6.5	21.4
12 27	6 36.93	+32 55.2	2.981	3.953	2.5	22.3	12 27	6 36.75	+8 31.9	2.273	3.233	4.6	21.2
1 6	6 27.76	+33 4.0	2.993	3.955	3.4	22.4	1 6	6 28.45	+8 54.5	2.273	3.228	5.0	21.2
1 16	6 19.15	+33 4.4	3.036	3.956	5.7	22.6	1 16	6 20.69	+9 26.7	2.303	3.223	7.3	21.4
1 26	6 11.84	+32 57.2	3.107	3.957	8.1	22.7	1 26	6 14.25	+10 6.3	2.360	3.218	10.0	21.6
2 5	6 6.34	+32 44.4	3.203	3.957	10.2	22.9	2 5	6 9.67	+10 50.9	2.440	3.213	12.6	21.7
79052	5142 <i>T-2</i>		12 29.5 263°66	3°7/29.3 18			270620	2002 <i>PD</i> ₂₇		12 29.5 113°71	2°8/30.0 18		
11 27	7 6.03	+33 37.0	2.										

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
246007	2006 <i>TO</i> ₁₄		12 29.5 173°35	0°6/29.5 18			302651	2002 <i>RP</i> ₂₄₀		12 29.5 70°37	0°4/29.6 18		
11 27	7 3.02	+25 23.1	2.226	3.053	11.8	20.9	11 27	7 2.43	+22 18.6	1.697	2.537	14.3	21.2
12 7	6 56.24	+25 22.4	2.150	3.056	8.6	20.7	12 7	6 56.18	+22 15.0	1.636	2.549	10.4	21.0
12 17	6 47.39	+25 20.3	2.099	3.058	5.0	20.5	12 17	6 47.48	+22 13.2	1.599	2.560	6.0	20.7
12 27	6 37.28	+25 15.0	2.078	3.060	1.2	20.2	12 27	6 37.32	+22 11.4	1.590	2.572	1.3	20.4
1 6	6 26.94	+25 5.4	2.087	3.061	3.1	20.3	1 6	6 27.00	+22 8.5	1.609	2.584	3.6	20.6
1 16	6 17.43	+24 51.7	2.127	3.062	6.9	20.6	1 16	6 17.78	+22 4.3	1.656	2.596	8.1	20.9
1 26	6 9.69	+24 35.2	2.194	3.062	10.3	20.8	1 26	6 10.75	+21 59.4	1.729	2.608	12.0	21.2
2 5	6 4.32	+24 17.7	2.285	3.062	13.2	21.0	2 5	6 6.52	+21 54.9	1.825	2.620	15.3	21.4
477341	2009 <i>UJ</i> ₁₆		12 29.5 85°28	3°4/29.8 18			439105	2011 <i>SZ</i> ₆₆		12 29.5 84°80	0°2/29.5 17		
11 27	7 4.44	+15 57.0	1.422	2.260	16.7	21.2	11 27	7 5.74	+23 40.6	1.857	2.688	13.7	21.7
12 7	6 57.85	+15 34.1	1.367	2.275	12.4	21.0	12 7	6 58.21	+23 45.8	1.810	2.718	9.9	21.5
12 17	6 48.49	+15 19.9	1.335	2.290	7.7	20.8	12 17	6 48.45	+23 51.1	1.789	2.749	5.6	21.3
12 27	6 37.50	+15 14.5	1.329	2.305	3.7	20.6	12 27	6 37.50	+23 54.3	1.796	2.778	1.2	21.1
1 6	6 26.37	+15 17.2	1.350	2.320	5.1	20.7	1 6	6 26.59	+23 54.0	1.833	2.807	3.3	21.3
1 16	6 16.56	+15 27.0	1.398	2.335	9.5	21.0	1 16	6 16.90	+23 50.3	1.900	2.836	7.4	21.6
1 26	6 9.26	+15 42.5	1.471	2.349	13.7	21.3	1 26	6 9.39	+23 44.3	1.993	2.864	11.0	21.9
2 5	6 5.12	+16 2.2	1.564	2.364	17.3	21.5	2 5	6 4.56	+23 37.3	2.110	2.891	14.0	22.1
366627	2003 <i>SH</i> ₁₀		12 29.5 61°88	1°1/29.4 17			416363	2003 <i>SS</i> ₃₉₁		12 29.5 44°06	5°9/28.4 17		
11 27	7 0.29	+26 7.5	2.081	2.917	12.2	21.3	11 27	7 3.27	+37 51.7	2.012	2.836	13.0	21.2
12 7	6 54.35	+26 19.4	2.016	2.926	8.9	21.2	12 7	6 56.99	+38 55.8	1.951	2.844	10.2	21.1
12 17	6 46.33	+26 30.0	1.976	2.936	5.2	20.9	12 17	6 48.07	+39 50.8	1.915	2.852	7.4	20.9
12 27	6 37.07	+26 37.0	1.964	2.946	1.5	20.7	12 27	6 37.47	+40 30.3	1.907	2.860	5.9	20.8
1 6	6 27.62	+26 38.8	1.982	2.955	3.3	20.9	1 6	6 26.53	+40 50.5	1.926	2.869	6.8	20.9
1 16	6 19.06	+26 35.2	2.029	2.965	7.1	21.1	1 16	6 16.63	+40 51.0	1.973	2.877	9.3	21.1
1 26	6 12.32	+26 27.2	2.103	2.975	10.5	21.3	1 26	6 8.96	+40 34.8	2.045	2.886	12.1	21.3
2 5	6 7.99	+26 16.4	2.200	2.985	13.4	21.6	2 5	6 4.25	+40 6.7	2.138	2.896	14.6	21.5
413221	2003 <i>QM</i> ₈₇		12 29.5 90°64	1°7/29.1 18			449155	2013 <i>AP</i> ₁₂₀		12 29.5 292°08	0°8/29.7 18		
11 27	7 2.11	+26 42.4	2.386	3.212	11.2	21.4	11 27	7 0.95	+19 45.9	1.701	2.541	14.3	21.0
12 7	6 55.41	+27 25.7	2.332	3.238	8.1	21.3	12 7	6 55.37	+20 5.9	1.622	2.534	10.5	20.7
12 17	6 46.84	+28 7.8	2.305	3.262	4.8	21.1	12 17	6 47.21	+20 31.8	1.567	2.527	6.2	20.5
12 27	6 37.16	+28 45.2	2.307	3.287	1.9	20.9	12 27	6 37.32	+21 1.5	1.539	2.521	1.5	20.1
1 6	6 27.36	+29 15.3	2.341	3.311	3.3	21.1	1 6	6 26.93	+21 32.0	1.539	2.514	3.7	20.3
1 16	6 18.39	+29 37.1	2.405	3.334	6.5	21.3	1 16	6 17.39	+22 1.2	1.567	2.507	8.4	20.6
1 26	6 11.09	+29 51.1	2.496	3.358	9.5	21.5	1 26	6 9.92	+22 27.9	1.621	2.501	12.6	20.8
2 5	6 6.01	+29 58.9	2.612	3.380	11.9	21.8	2 5	6 5.30	+22 52.0	1.697	2.495	16.2	21.0
322545	2011 <i>YM</i> ₃₅		12 29.5 46°16	0°6/29.4 18			252940	2002 <i>PP</i> ₂₁		12 29.5 185°71	1°0/29.4 18		
11 27	7 0.84	+22 47.4	1.785	2.626	13.7	20.5	11 27	7 3.50	+26 4.4	2.323	3.148	11.5	21.7
12 7	6 55.10	+23 21.7	1.718	2.631	10.0	20.3	12 7	6 56.59	+26 13.5	2.243	3.148	8.4	21.5
12 17	6 46.93	+23 59.1	1.675	2.637	5.7	20.1	12 17	6 47.62	+26 21.0	2.189	3.148	4.9	21.3
12 27	6 37.22	+24 36.1	1.660	2.643	1.3	19.8	12 27	6 37.37	+26 24.8	2.165	3.146	1.4	21.1
1 6	6 27.18	+25 9.4	1.674	2.648	3.6	20.0	1 6	6 26.85	+26 23.3	2.172	3.144	3.1	21.2
1 16	6 18.06	+25 37.1	1.716	2.655	7.9	20.3	1 16	6 17.10	+26 16.4	2.209	3.142	6.8	21.4
1 26	6 10.99	+25 58.7	1.784	2.661	11.8	20.5	1 26	6 9.05	+26 5.1	2.274	3.139	10.1	21.6
2 5	6 6.65	+26 15.2	1.875	2.667	15.1	20.7	2 5	6 3.33	+25 51.4	2.363	3.135	12.9	21.8
27051	1998 <i>SM</i> ₅		12 29.5 296°46	8°1/30.6 18			48418	1988 <i>EA</i> ₁		12 29.5 222°23	5°3/30.5 18		
11 27	6 58.47	+ 3 29.2	1.724	2.528	15.8	19.1	11 27	6 59.74	+ 6 13.3	2.353	3.145	12.4	19.7
12 7	6 53.43	+ 2 48.2	1.642	2.514	12.9	18.8	12 7	6 53.81	+ 5 55.2	2.263	3.135	9.9	19.5
12 17	6 46.03	+ 2 24.8	1.581	2.501	10.1	18.6	12 17	6 46.03	+ 5 49.3	2.198	3.124	7.3	19.3
12 27	6 37.06	+ 2 22.6	1.545	2.488	8.2	18.5	12 27	6 37.07	+ 5 57.0	2.161	3.113	5.5	19.2
1 6	6 27.59	+ 2 43.0	1.536	2.475	8.6	18.5	1 6	6 27.74	+ 6 18.4	2.154	3.100	5.9	19.2
1 16	6 18.82	+ 3 24.5	1.552	2.462	11.0	18.6	1 16	6 18.95	+ 6 52.1	2.175	3.088	8.1	19.3
1 26	6 11.87	+ 4 23.3	1.593	2.449	14.1	18.8	1 26	6 11.54	+ 7 35.8	2.224	3.074	10.9	19.5
2 5	6 7.49	+ 5 33.7	1.654	2.437	17.2	18.9	2 5	6 6.13	+ 8 26.4	2.297	3.060	13.5	19.6
459796	2013 <i>RQ</i> ₆₄		12 29.5 97°71	0°7/29.6 17			249912	2001 <i>SW</i> ₁₇₀		12 29.5 76°19	0°3/29.5 17		
11 27	6 58.34	+20 35.1	2.401	3.229	11.0	21.5	11 27	7 2.38	+24 1.5	1.831	2.668	13.6	20.9
12 7	6 52.69	+20 39.3	2.330	3.237	8.0	21.4	12 7	6 56.02	+24 1.1	1.770	2.682	9.8	20.7
12 17	6 45.30	+20 46.2	2.286	3.244	4.7	21.2	12 17	6 47.34	+24 0.6	1.734	2.695	5.6	20.5
12 27	6 36.87	+20 54.5	2.270	3.252	1.2	20.9	12 27	6 37.31	+23 58.3	1.726	2.708	1.2	20.2
1 6	6 28.25	+21 3.1	2.285	3.259	2.8	21.1	1 6	6 27.15	+23 52.9	1.746	2.721	3.4	20.4
1 16	6 20.32	+21 11.3	2.330	3.266	6.2	21.3	1 16	6 18.04	+23 44.5	1.796	2.734	7.6	20.7
1 26	6 13.87	+21 19.0	2.402	3.274	9.4	21.5	1 26	6 11.00	+23 34.2	1.872	2.748	11.4	21.0
2 5	6 9.43	+21 26.2	2.499	3.281	12.0	21.7	2 5	6 6.64	+23 23.4	1.970	2.761	14.5	21.2
427012	2014 <i>SN</i> ₂₀₈		12 29.5 105°50	5°9/30.6 18			227090	2005 <i>MU</i> ₁₇		12 29.5 68°08	1°2/29.7 18		
11 27	6 57.27	+ 4 9.7	2.416	3.204	12.3	21.1	11 27	7 5.68	+19 8.3	1.339	2.184	17.1	20.5
12 7	6 51.79	+ 3 36.6	2.351	3.215	9.9	20.9	12 7	6 58.83	+19 23.8	1.295	2.209	12.5	20.3
12 17	6 44.73	+ 3 16.4	2.310	3.226	7.6	20.8	12 17	6 49.07	+19 46.1	1.274	2.234	7.2	20.1
12 27	6 36.75	+ 3 11.0	2.297	3.237	6.1	20.7	12 27	6 37.66	+20 12.2	1.278	2.260	2.0	19.8
1 6	6 28.62	+ 3 20.4	2.312	3.247	6.3	20.8	1 6	6 26.23	+20 38.7	1.310	2.285	4.2	20.1
1 16	6 21.13	+ 3 43.6	2.355	3.258	8.1	20.9	1 16	6 16.31	+21 3.9	1.369	2.310	9.2	20.4
1 26	6 14.99	+ 4 18.3	2.425	3.268	10.4	21.1	1 26	6 9.12	+21 26.8	1.453	2.335	13.6	20.7
2 5	6 10.70	+ 5 1.1	2.519	3.278	12.6	21.2	2 5	6 5.26	+21 47.5	1.557	2.360	17.2	21.0
310332	2011 <i>UP</i> ₁₈₁		12 29.5 130°30	3°7/28.9 18			259489	2003 <i>ST</i> ₂₂₇		12 29.5 86°63	2°8/29.3 18 R		
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12 29.5

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
295533	2008 <i>RV</i> ₁₃₁		12 29.5	61°48'	2°2'/29.3	18	460623	2014 <i>UJ</i> ₈₆		12 29.5	64°85'	5°1'/29.9	16
11 27	7 6.03	+26 57.1	1.378	2.226	16.6	20.5	11 27	6 58.21	+9 15.0	2.196	3.005	12.6	21.7
12 7	6 59.22	+27 29.2	1.333	2.249	12.1	20.3	12 7	6 52.63	+8 24.6	2.129	3.013	9.9	21.6
12 17	6 49.35	+27 59.2	1.311	2.272	7.1	20.1	12 17	6 45.30	+7 43.8	2.087	3.021	7.1	21.4
12 27	6 37.73	+28 22.0	1.315	2.295	2.6	19.9	12 27	6 36.93	+7 14.8	2.073	3.029	5.3	21.3
1 6	6 26.05	+28 34.3	1.346	2.318	4.7	20.1	1 6	6 28.42	+6 58.7	2.088	3.037	5.8	21.4
1 16	6 15.94	+28 35.9	1.404	2.342	9.4	20.4	1 16	6 20.63	+6 55.2	2.131	3.045	8.1	21.5
1 26	6 8.68	+28 29.1	1.486	2.365	13.6	20.7	1 26	6 14.35	+7 3.3	2.200	3.054	10.9	21.7
2 5	6 4.86	+28 17.4	1.590	2.389	17.0	21.0	2 5	6 10.12	+7 20.3	2.292	3.062	13.3	21.9
353065	2009 <i>DZ</i> ₇₅		12 29.5	33°69'	1°4'/29.7	18	366663	2003 <i>SS</i> ₃₉₃		12 29.5	137°89'	3°9'/30.4	17
11 27	7 0.82	+19 2.6	1.308	2.162	16.9	20.5	11 27	6 57.61	+10 14.4	2.376	3.186	11.8	21.2
12 7	6 55.52	+19 13.8	1.257	2.175	12.4	20.2	12 7	6 52.17	+10 8.6	2.302	3.190	9.1	21.0
12 17	6 47.30	+19 32.5	1.227	2.189	7.2	20.0	12 17	6 45.05	+10 12.6	2.253	3.193	6.2	20.9
12 27	6 37.33	+19 56.1	1.222	2.203	2.1	19.7	12 27	6 36.89	+10 26.8	2.232	3.197	4.0	20.7
1 6	6 27.14	+20 22.0	1.243	2.218	4.3	19.9	1 6	6 28.52	+10 50.3	2.241	3.201	4.6	20.8
1 16	6 18.29	+20 47.7	1.291	2.234	9.3	20.2	1 16	6 20.76	+11 21.8	2.279	3.204	7.1	20.9
1 26	6 12.03	+21 12.1	1.362	2.251	13.9	20.5	1 26	6 14.38	+11 59.2	2.344	3.207	9.9	21.1
2 5	6 9.03	+21 34.7	1.454	2.268	17.6	20.8	2 5	6 9.91	+12 40.1	2.434	3.211	12.5	21.3
193028	2000 <i>EX</i> ₇₀		12 29.5	292°35'	5°6'/28.4	18	70278	1999 <i>RK</i> ₁₁₀		12 29.5	106°71'	3°0'/29.5	18
11 27	7 2.89	+37 55.2	2.181	3.001	12.3	19.5	11 27	7 6.70	+32 2.2	1.745	2.578	14.3	18.4
12 7	6 56.79	+38 46.6	2.092	2.982	9.7	19.3	12 7	6 59.43	+31 56.3	1.677	2.583	10.7	18.2
12 17	6 48.06	+39 30.2	2.027	2.964	7.1	19.1	12 17	6 49.42	+31 42.2	1.633	2.588	6.6	17.9
12 27	6 37.52	+40 0.1	1.990	2.945	5.6	19.0	12 27	6 37.79	+31 16.5	1.616	2.593	3.2	17.7
1 6	6 26.40	+40 12.3	1.982	2.926	6.5	19.0	1 6	6 26.00	+30 38.3	1.629	2.598	4.6	17.8
1 16	6 16.03	+40 5.9	2.001	2.907	9.1	19.1	1 16	6 15.50	+29 50.0	1.670	2.603	8.6	18.1
1 26	6 7.67	+39 43.2	2.046	2.889	12.0	19.3	1 26	6 7.48	+28 55.8	1.737	2.607	12.4	18.3
2 5	6 2.16	+39 8.9	2.113	2.870	14.7	19.4	2 5	6 2.58	+28 0.4	1.826	2.612	15.7	18.5
357680	2005 <i>MN</i> ₁₇		12 29.5	267°19'	3°1'/30.3	18	183039	2002 <i>QG</i> ₂₅		12 29.5	65°14'	2°8'/29.9	18
11 27	7 0.47	+12 40.0	2.058	2.876	13.0	21.3	11 27	7 4.19	+16 16.1	1.297	2.142	17.6	19.9
12 7	6 54.74	+12 57.1	1.959	2.855	9.9	21.1	12 7	6 57.88	+16 16.1	1.248	2.160	13.0	19.7
12 17	6 46.78	+13 25.4	1.885	2.835	6.4	20.8	12 17	6 48.62	+16 26.4	1.221	2.179	7.9	19.5
12 27	6 37.26	+14 4.4	1.839	2.813	3.4	20.6	12 27	6 37.63	+16 45.4	1.219	2.198	3.3	19.3
1 6	6 27.16	+14 52.0	1.823	2.792	4.3	20.6	1 6	6 26.51	+17 10.6	1.244	2.217	4.9	19.4
1 16	6 17.56	+15 45.6	1.837	2.770	7.9	20.8	1 16	6 16.83	+17 39.6	1.295	2.236	9.7	19.7
1 26	6 9.53	+16 42.3	1.877	2.748	11.6	21.0	1 26	6 9.84	+18 10.5	1.371	2.255	14.1	20.1
2 5	6 3.87	+17 39.7	1.942	2.725	14.9	21.1	2 5	6 6.18	+18 41.5	1.466	2.274	17.8	20.3
25221	1998 <i>TJ</i> ₁₀		12 29.5	17°04'	0°9'/29.4	17	354417	2003 <i>WD</i> ₁₀		12 29.5	79°50'	0°3'/29.5	17
11 27	6 59.05	+24 41.6	1.739	2.585	13.8	18.4	11 27	7 5.98	+25 0.0	1.706	2.542	14.5	21.0
12 7	6 53.85	+24 59.7	1.674	2.590	10.0	18.1	12 7	6 58.59	+24 45.4	1.656	2.566	10.5	20.8
12 17	6 46.23	+25 18.4	1.633	2.595	5.8	17.9	12 17	6 48.78	+24 29.3	1.629	2.590	6.0	20.6
12 27	6 37.12	+25 34.9	1.619	2.601	1.4	17.6	12 27	6 37.64	+24 10.0	1.631	2.613	1.3	20.3
1 6	6 27.73	+25 46.9	1.633	2.608	3.6	17.8	1 6	6 26.55	+23 47.3	1.662	2.637	3.5	20.5
1 16	6 19.33	+25 53.5	1.675	2.615	7.9	18.1	1 16	6 16.78	+23 22.3	1.722	2.660	7.9	20.9
1 26	6 13.00	+25 55.2	1.743	2.623	11.8	18.3	1 26	6 9.36	+22 57.1	1.808	2.682	11.8	21.1
2 5	6 9.38	+25 53.5	1.832	2.632	15.1	18.6	2 5	6 4.81	+22 33.4	1.916	2.705	14.9	21.4
132599	2002 <i>JX</i> ₁₄₃		12 29.5	142°68'	1°7'/29.1	18	15191	4234 <i>T-2</i>		12 29.5	166°09'	1°9'/29.2	18
11 27	7 4.50	+25 30.1	2.028	2.857	12.7	20.4	11 27	6 59.64	+28 53.4	2.729	3.554	10.0	18.6
12 7	6 57.60	+26 22.9	1.960	2.867	9.3	20.2	12 7	6 53.63	+29 16.6	2.653	3.557	7.3	18.4
12 17	6 48.33	+27 16.6	1.917	2.876	5.4	20.0	12 17	6 45.89	+29 37.2	2.604	3.559	4.4	18.2
12 27	6 37.55	+28 6.5	1.904	2.884	2.0	19.7	12 27	6 37.09	+29 52.9	2.584	3.562	2.0	18.1
1 6	6 26.43	+28 48.7	1.922	2.892	3.8	19.9	1 6	6 28.07	+30 2.0	2.595	3.564	3.2	18.1
1 16	6 16.17	+29 21.1	1.969	2.900	7.6	20.1	1 16	6 19.68	+30 3.8	2.637	3.566	6.1	18.3
1 26	6 7.88	+29 44.0	2.043	2.907	11.1	20.4	1 26	6 12.70	+29 59.4	2.706	3.567	8.8	18.5
2 5	6 2.23	+29 59.1	2.141	2.913	14.1	20.6	2 5	6 7.68	+29 50.3	2.800	3.568	11.2	18.7
460006	2014 <i>OE</i> ₁₀₈		12 29.5	121°69'	0°1'/29.5	18	405674	2005 <i>UN</i> ₁₉₂		12 29.5	124°99'	1°0'/29.4	17
11 27	7 1.34	+21 51.4	2.038	2.870	12.6	21.5	11 27	7 1.13	+25 19.0	2.133	2.965	12.1	22.0
12 7	6 55.21	+22 21.9	1.969	2.878	9.2	21.3	12 7	6 55.02	+25 38.4	2.062	2.971	8.8	21.8
12 17	6 46.91	+22 55.6	1.925	2.885	5.3	21.1	12 17	6 46.81	+25 57.7	2.016	2.976	5.1	21.6
12 27	6 37.26	+23 29.6	1.909	2.892	1.1	20.8	12 27	6 37.29	+26 14.0	1.999	2.981	1.4	21.4
1 6	6 27.32	+24 1.2	1.924	2.898	3.2	20.9	1 6	6 27.52	+26 25.4	2.012	2.986	3.3	21.5
1 16	6 18.20	+24 28.6	1.968	2.905	7.2	21.2	1 16	6 18.56	+26 31.3	2.055	2.991	7.0	21.8
1 26	6 10.88	+24 51.4	2.039	2.911	10.8	21.4	1 26	6 11.39	+26 32.1	2.125	2.995	10.5	22.0
2 5	6 6.01	+25 10.0	2.134	2.917	13.8	21.7	2 5	6 6.60	+26 29.4	2.218	3.000	13.4	22.2
275127	2009 <i>VN</i> ₆₆		12 29.5	75°27'	0°7'/29.4	17	443716	2015 <i>KC</i> ₁₄₈		12 29.5	165°89'	1°9'/29.2	18
11 27	7 0.73	+25 9.5	2.115	2.949	12.1	21.4	11 27	7 5.59	+27 13.6	2.088	2.914	12.5	22.3
12 7	6 54.61	+25 17.3	2.053	2.962	8.8	21.2	12 7	6 58.37	+27 48.8	2.015	2.920	9.2	22.1
12 17	6 46.48	+25 24.4	2.016	2.976	5.1	21.0	12 17	6 48.79	+28 22.6	1.968	2.925	5.5	21.8
12 27	6 37.16	+25 28.7	2.008	2.990	1.2	20.8	12 27	6 37.71	+28 51.0	1.950	2.930	2.1	21.6
1 6	6 27.70	+25 28.9	2.029	3.003	3.1	20.9	1 6	6 26.31	+29 11.1	1.963	2.933	3.8	21.8
1 16	6 19.15	+25 24.9	2.080	3.017	6.9	21.2	1 16	6 15.79	+29 21.9	2.006	2.936	7.5	22.0
1 26	6 12.38	+25 17.6	2.159	3.031	10.2	21.4	1 26	6 7.23	+29 24.4	2.076	2.938	11.0	22.2
2 5	6 7.97	+25 8.2	2.260	3.044	13.1	21.7	2 5	6 1.32	+29 21.0	2.169	2.940	14.0	22.4
35753	1999 <i>GE</i> ₄₅		12 29.5	190°15'	1°4'/29.3	18	477235	2009 <i>RA</i> ₂₀		12 29.5	122°02'	12°2'/1.3	16
11 27	7 4.11												

EPHEMERIDES

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
69927	1998 <i>TN</i> ₃₂		12 29.5	45° 95'	5° 1/30.1	18	425047	2009 <i>QE</i> ₈		12 29.6	196° 87'	3° 2/29.2	15
11 27	6 58.55	+10 19.3	1.910	2.730	13.8	18.7	11 27	7 9.94	+32 31.6	2.365	3.176	11.8	23.1
12 7	6 53.07	+9 34.8	1.851	2.743	10.7	18.5	12 7	7 1.47	+32 58.2	2.279	3.172	8.8	22.9
12 17	6 45.62	+9 1.0	1.816	2.756	7.5	18.3	12 17	6 50.58	+33 18.7	2.218	3.167	5.7	22.7
12 27	6 37.04	+8 39.8	1.808	2.770	5.3	18.2	12 27	6 38.13	+33 29.0	2.189	3.160	3.3	22.5
1 6	6 28.34	+8 31.8	1.828	2.783	5.9	18.3	1 6	6 25.29	+33 26.5	2.190	3.152	4.4	22.6
1 16	6 20.50	+8 36.5	1.875	2.798	8.6	18.5	1 16	6 13.30	+33 11.1	2.223	3.143	7.6	22.8
1 26	6 14.41	+8 52.1	1.949	2.812	11.6	18.7	1 26	6 3.27	+32 45.4	2.285	3.133	10.7	22.9
2 5	6 10.59	+9 15.8	2.044	2.827	14.3	18.9	2 5	5 55.91	+32 13.3	2.370	3.121	13.5	23.1
457415	2008 <i>TQ</i> ₁₆₃		12 29.5	53° 26'	1° 9/29.8	16	43748	1981 <i>ET</i> ₃₇		12 29.6	176° 60'	1° 7/29.8	18
11 27	6 58.57	+17 54.8	2.109	2.940	12.3	21.4	11 27	7 5.30	+18 29.3	1.984	2.807	13.3	20.5
12 7	6 53.01	+17 41.8	2.045	2.951	9.0	21.2	12 7	6 58.11	+18 24.1	1.908	2.810	9.8	20.3
12 17	6 45.57	+17 33.5	2.006	2.962	5.4	21.0	12 17	6 48.63	+18 23.2	1.856	2.812	5.9	20.1
12 27	6 37.04	+17 29.4	1.995	2.974	2.2	20.8	12 27	6 37.72	+18 25.7	1.834	2.814	2.1	19.8
1 6	6 28.35	+17 29.0	2.013	2.985	3.4	20.9	1 6	6 26.50	+18 30.5	1.842	2.815	3.6	19.9
1 16	6 20.47	+17 32.0	2.061	2.997	7.0	21.2	1 16	6 16.15	+18 36.9	1.880	2.814	7.7	20.2
1 26	6 14.24	+17 37.7	2.135	3.009	10.3	21.4	1 26	6 7.72	+18 44.7	1.945	2.813	11.4	20.4
2 5	6 10.18	+17 45.7	2.233	3.021	13.1	21.6	2 5	6 1.86	+18 53.8	2.034	2.811	14.6	20.6
457535	2008 <i>WV</i> ₉₉		12 29.5	281° 65'	3° 7/29.9	18	506105	2016 <i>AM</i> ₁₉₄		12 29.6	28° 62'	16° 6/1.5	17
11 27	6 57.26	+12 9.8	2.359	3.174	11.6	21.1	11 27	7 25.08	+54 12.6	0.895	1.712	25.8	20.6
12 7	6 51.98	+11 41.6	2.278	3.170	8.9	20.9	12 7	7 16.41	+54 56.1	0.851	1.717	22.4	20.4
12 17	6 44.99	+11 20.9	2.222	3.166	6.0	20.7	12 17	7 0.36	+54 57.6	0.822	1.723	19.1	20.2
12 27	6 36.93	+11 8.6	2.195	3.162	3.9	20.6	12 27	6 40.09	+53 58.1	0.810	1.730	16.9	20.1
1 6	6 28.62	+11 5.2	2.197	3.158	4.5	20.6	1 6	6 20.42	+51 52.7	0.818	1.737	16.8	20.2
1 16	6 20.91	+11 10.2	2.228	3.154	7.2	20.8	1 16	6 5.48	+48 55.0	0.846	1.746	18.8	20.3
1 26	6 14.59	+11 22.6	2.287	3.150	10.1	20.9	1 26	5 57.28	+45 30.0	0.894	1.755	22.0	20.5
2 5	6 10.20	+11 40.8	2.369	3.146	12.8	21.1	2 5	5 55.67	+42 1.2	0.959	1.765	25.2	20.8
474272	2001 <i>TR</i> ₁₈₈		12 29.5	73° 73'	1° 4/29.4	16	285293	1998 <i>SX</i> ₁₇₃		12 29.6	225° 69'	0° 3/29.5	18
11 27	7 7.83	+25 55.3	1.462	2.304	16.1	21.3	11 27	7 4.88	+23 15.4	1.775	2.609	14.1	22.0
12 7	7 0.28	+26 10.9	1.419	2.332	11.7	21.1	12 7	6 58.27	+23 28.7	1.691	2.601	10.3	21.8
12 17	6 49.87	+26 24.8	1.400	2.360	6.7	20.9	12 17	6 48.96	+23 43.8	1.631	2.591	6.0	21.5
12 27	6 37.91	+26 33.1	1.407	2.388	1.9	20.7	12 27	6 37.83	+23 57.8	1.599	2.582	1.3	21.2
1 6	6 26.00	+26 33.9	1.442	2.416	4.2	20.9	1 6	6 26.18	+24 8.3	1.597	2.571	3.7	21.3
1 16	6 15.68	+26 27.3	1.505	2.443	8.9	21.2	1 16	6 15.40	+24 14.2	1.623	2.561	8.4	21.6
1 26	6 8.10	+26 15.6	1.593	2.470	13.0	21.5	1 26	6 6.76	+24 16.2	1.676	2.549	12.6	21.8
2 5	6 3.81	+26 1.6	1.703	2.497	16.3	21.8	2 5	6 1.08	+24 15.8	1.750	2.537	16.2	22.0
174129	2002 <i>LZ</i> ₂₃		12 29.5	211° 86'	0° 1/29.5	18	121454	1999 <i>TA</i> ₂₀₂		12 29.6	23° 29'	5° 5/29.2	17
11 27	7 6.53	+24 2.3	1.742	2.575	14.3	20.4	11 27	7 3.57	+36 44.3	1.678	2.513	14.7	19.4
12 7	6 59.43	+23 56.2	1.661	2.570	10.6	20.1	12 7	6 57.47	+37 15.0	1.618	2.520	11.3	19.3
12 17	6 49.57	+23 49.6	1.603	2.563	6.1	19.8	12 17	6 48.47	+37 34.7	1.582	2.527	7.9	19.1
12 27	6 37.91	+23 40.3	1.573	2.556	1.3	19.5	12 27	6 37.70	+37 38.1	1.571	2.535	5.6	19.0
1 6	6 25.82	+23 27.1	1.573	2.548	3.7	19.7	1 6	6 26.72	+37 22.4	1.588	2.544	6.6	19.0
1 16	6 14.72	+23 10.4	1.602	2.539	8.5	19.9	1 16	6 17.07	+36 49.0	1.631	2.553	9.7	19.2
1 26	6 5.89	+22 51.8	1.657	2.530	12.8	20.2	1 26	6 10.00	+36 2.4	1.699	2.563	13.0	19.5
2 5	6 0.09	+22 33.5	1.734	2.520	16.4	20.4	2 5	6 6.19	+35 8.5	1.788	2.573	16.0	19.7
168595	2000 <i>AP</i> ₃₅		12 29.5	25° 20'	0° 4/29.5	18	501554	2014 <i>LN</i> ₂₄		12 29.6	289° 35'	11° 4/31.0	17
11 27	7 1.91	+24 40.4	1.380	2.234	16.2	19.1	11 27	7 22.39	+46 52.3	1.045	1.870	22.4	20.8
12 7	6 56.34	+24 31.2	1.322	2.241	11.8	18.9	12 7	7 13.58	+46 59.5	0.974	1.859	18.6	20.5
12 17	6 47.82	+24 21.4	1.286	2.249	6.8	18.6	12 17	6 58.68	+46 34.4	0.921	1.848	14.6	20.3
12 27	6 37.54	+24 8.9	1.276	2.258	1.4	18.3	12 27	6 39.87	+45 21.3	0.889	1.837	11.7	20.1
1 6	6 27.04	+23 52.9	1.292	2.268	4.1	18.5	1 6	6 20.70	+43 15.1	0.880	1.826	12.1	20.1
1 16	6 17.89	+23 34.1	1.335	2.278	9.2	18.8	1 16	6 4.73	+40 26.0	0.895	1.816	15.6	20.2
1 26	6 11.36	+23 14.2	1.402	2.289	13.7	19.1	1 26	5 54.28	+37 15.4	0.933	1.806	20.2	20.4
2 5	6 8.10	+22 55.3	1.489	2.301	17.4	19.4	2 5	5 49.90	+34 4.6	0.989	1.796	24.5	20.7
418681	2008 <i>TB</i> ₁₇₂		12 29.5	88° 82'	0° 5/29.7	16	131424	2001 <i>OZ</i> ₇₉		12 29.6	176° 55'	0° 3/29.6	18
11 27	6 58.89	+20 56.7	2.389	3.218	11.1	21.7	11 27	6 58.20	+21 37.4	2.890	3.712	9.5	21.2
12 7	6 53.10	+21 4.3	2.324	3.231	8.1	21.5	12 7	6 52.45	+21 42.9	2.810	3.714	7.0	21.0
12 17	6 45.59	+21 14.2	2.285	3.244	4.7	21.4	12 17	6 45.19	+21 49.9	2.757	3.715	4.0	20.8
12 27	6 37.06	+21 25.3	2.275	3.257	1.1	21.1	12 27	6 37.02	+21 57.3	2.734	3.716	0.9	20.6
1 6	6 28.38	+21 36.1	2.295	3.270	2.7	21.3	1 6	6 28.65	+22 4.1	2.742	3.717	2.4	20.7
1 16	6 20.42	+21 46.0	2.346	3.283	6.2	21.5	1 16	6 20.82	+22 9.7	2.782	3.717	5.4	20.9
1 26	6 13.97	+21 54.7	2.424	3.295	9.3	21.7	1 26	6 14.22	+22 14.2	2.850	3.717	8.2	21.1
2 5	6 9.53	+22 2.6	2.526	3.308	11.9	21.9	2 5	6 9.33	+22 17.9	2.943	3.716	10.6	21.3
410436	2008 <i>BX</i> ₄₅		12 29.5	275° 60'	5° 2/29.2	17	56881	2000 <i>QE</i> ₁₂₂		12 29.6	16° 52'	7° 0/30.7	18
11 27	7 5.86	+37 3.7	1.899	2.723	13.7	21.4	11 27	6 55.55	+ 2 42.7	2.195	2.986	13.2	18.7
12 7	6 59.05	+37 26.1	1.819	2.714	10.6	21.1	12 7	6 50.80	+ 1 59.1	2.128	2.990	10.8	18.5
12 17	6 49.38	+37 37.9	1.763	2.706	7.4	20.9	12 17	6 44.34	+ 1 30.2	2.083	2.993	8.6	18.4
12 27	6 37.88	+37 34.0	1.734	2.697	5.3	20.8	12 27	6 36.85	+ 1 18.6	2.064	2.998	7.1	18.3
1 6	6 25.98	+37 11.6	1.733	2.688	6.2	20.8	1 6	6 29.16	+ 1 25.2	2.073	3.002	7.4	18.3
1 16	6 15.19	+36 31.6	1.760	2.679	9.3	21.0	1 16	6 22.11	+ 1 48.9	2.108	3.007	9.1	18.4
1 26	6 6.81	+35 38.4	1.813	2.671	12.6	21.2	1 26	6 16.48	+ 2 26.9	2.169	3.013	11.4	18.6
2 5	6 1.59	+34 37.9	1.888	2.662	15.7	21.4	2 5	6 12.79	+ 3 15.2	2.253	3.018	13.7	18.7
75746	2000 <i>AD</i> ₁₅₃		12 29.6	277° 75'	11° 3/1.3	18	486618	2013 <i>LQ</i> ₅		12 29.6	136°		

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
355284	2007 <i>RB</i> ₈₅		12 29.6 355°65	9.4/29.1	17		109510	2001 <i>QM</i> ₂₃₅		12 29.6 44°61	0°0/29.4	18	R
11 27	7 7.73	+43 28.7	1.414	2.241	17.4	20.2	11 27	7 3.96	+22 46.3	1.208	2.065	17.8	19.2
12 7	7 1.46	+44 20.9	1.351	2.238	14.2	20.0	12 7	6 58.02	+22 52.5	1.162	2.083	13.0	19.0
12 17	6 51.18	+44 54.9	1.310	2.236	11.2	19.8	12 17	6 48.87	+23 1.5	1.137	2.101	7.4	18.7
12 27	6 38.32	+45 0.9	1.291	2.234	9.4	19.7	12 27	6 37.84	+23 10.1	1.137	2.120	1.5	18.4
1 6	6 25.01	+44 34.2	1.298	2.233	10.2	19.8	1 6	6 26.72	+23 15.9	1.163	2.139	4.3	18.7
1 16	6 13.50	+43 36.9	1.328	2.233	12.9	19.9	1 16	6 17.20	+23 18.3	1.214	2.159	9.8	19.0
1 26	6 5.51	+42 17.2	1.381	2.234	16.1	20.1	1 26	6 10.61	+23 18.2	1.289	2.179	14.4	19.4
2 5	6 1.83	+40 45.5	1.454	2.235	19.2	20.3	2 5	6 7.59	+23 17.1	1.384	2.200	18.3	19.7
200026	2007 <i>PD</i> ₂		12 29.6 112°46	1°0/29.4	18		299044	2005 <i>BC</i> ₄		12 29.6 248°08	1°9/29.8	18	
11 27	6 59.39	+25 44.0	2.460	3.289	10.8	20.7	11 27	7 1.70	+17 37.4	1.954	2.782	13.2	20.6
12 7	6 53.55	+26 0.1	2.388	3.296	7.8	20.5	12 7	6 55.73	+17 36.0	1.865	2.769	9.8	20.4
12 17	6 45.91	+26 15.6	2.343	3.302	4.5	20.3	12 17	6 47.44	+17 40.3	1.800	2.756	6.0	20.1
12 27	6 37.18	+26 28.3	2.327	3.308	1.3	20.1	12 27	6 37.59	+17 49.6	1.763	2.743	2.3	19.9
1 6	6 28.25	+26 36.5	2.341	3.315	2.9	20.2	1 6	6 27.25	+18 2.6	1.756	2.729	3.8	20.0
1 16	6 20.02	+26 39.9	2.386	3.321	6.2	20.5	1 16	6 17.60	+18 18.3	1.778	2.714	7.9	20.2
1 26	6 13.30	+26 38.9	2.458	3.327	9.3	20.7	1 26	6 9.73	+18 35.7	1.826	2.700	11.8	20.4
2 5	6 8.64	+26 34.8	2.554	3.332	11.9	20.9	2 5	6 4.38	+18 54.4	1.898	2.685	15.1	20.6
356005	2009 <i>BK</i> ₇₂		12 29.6 111°72	4°8/30.7	18		108856	2001 <i>OT</i> ₉₅		12 29.6 95°50	1°7/29.9	17	
11 27	7 1.53	+ 8 36.6	1.953	2.760	14.0	21.0	11 27	6 57.97	+16 51.9	2.475	3.297	10.9	20.2
12 7	6 55.23	+ 8 31.5	1.892	2.776	10.9	20.8	12 7	6 52.42	+16 57.1	2.407	3.308	8.1	20.1
12 17	6 46.91	+ 8 39.6	1.854	2.792	7.6	20.6	12 17	6 45.24	+17 7.4	2.365	3.319	4.9	19.9
12 27	6 37.39	+ 9 1.3	1.844	2.807	5.1	20.5	12 27	6 37.09	+17 22.1	2.352	3.330	2.0	19.7
1 6	6 27.70	+ 9 35.3	1.863	2.821	5.5	20.6	1 6	6 28.77	+17 40.0	2.369	3.341	3.0	19.8
1 16	6 18.86	+10 19.0	1.911	2.835	8.3	20.7	1 16	6 21.10	+17 59.9	2.417	3.352	6.1	20.0
1 26	6 11.80	+11 9.4	1.986	2.849	11.4	21.0	1 26	6 14.82	+18 21.0	2.492	3.362	9.1	20.2
2 5	6 7.08	+12 3.2	2.084	2.863	14.2	21.2	2 5	6 10.42	+18 42.5	2.592	3.373	11.7	20.4
173058	2006 <i>SY</i> ₅₃		12 29.6 109°82	2°1/29.7	18		263282	2008 <i>BU</i> ₃₅		12 29.6 205°69	3°0/29.1	17	
11 27	6 58.14	+16 44.3	2.834	3.650	9.9	19.9	11 27	7 3.49	+32 13.5	2.451	3.272	11.1	21.1
12 7	6 52.28	+16 14.8	2.766	3.664	7.3	19.8	12 7	6 56.75	+32 39.8	2.368	3.267	8.3	20.9
12 17	6 45.03	+15 48.7	2.725	3.677	4.5	19.6	12 17	6 47.89	+33 1.2	2.312	3.262	5.3	20.7
12 27	6 36.99	+15 26.5	2.714	3.689	2.3	19.5	12 27	6 37.67	+33 14.1	2.284	3.256	3.1	20.6
1 6	6 28.86	+15 8.4	2.734	3.702	3.1	19.5	1 6	6 27.13	+33 16.2	2.287	3.250	4.2	20.6
1 16	6 21.35	+14 54.7	2.785	3.714	5.7	19.7	1 16	6 17.32	+33 7.4	2.320	3.243	7.1	20.8
1 26	6 15.09	+14 45.3	2.864	3.727	8.3	19.9	1 26	6 9.21	+32 49.3	2.381	3.236	10.1	21.0
2 5	6 10.49	+14 39.9	2.968	3.739	10.6	20.1	2 5	6 3.46	+32 25.0	2.465	3.228	12.7	21.2
305255	2007 <i>YP</i> ₈		12 29.6 74°09	2°0/29.4	18		281898	2011 <i>BP</i> ₂₅		12 29.6 74°52	2°0/30.1	18	
11 27	7 3.53	+28 1.0	1.747	2.586	14.0	20.8	11 27	6 59.00	+15 17.1	2.137	2.961	12.4	20.1
12 7	6 57.20	+28 13.9	1.679	2.590	10.3	20.6	12 7	6 53.48	+15 41.3	2.063	2.965	9.2	19.9
12 17	6 48.25	+28 23.6	1.636	2.595	6.1	20.3	12 17	6 46.00	+16 13.7	2.014	2.968	5.6	19.7
12 27	6 37.68	+28 26.9	1.620	2.600	2.3	20.1	12 27	6 37.29	+16 53.0	1.994	2.972	2.4	19.5
1 6	6 26.85	+28 21.7	1.632	2.604	4.1	20.2	1 6	6 28.27	+17 36.8	2.003	2.975	3.4	19.6
1 16	6 17.11	+28 8.1	1.673	2.609	8.3	20.5	1 16	6 19.94	+18 22.5	2.042	2.979	7.0	19.8
1 26	6 9.63	+27 48.4	1.739	2.613	12.2	20.7	1 26	6 13.18	+19 8.2	2.109	2.983	10.4	20.1
2 5	6 5.09	+27 25.5	1.827	2.618	15.5	20.9	2 5	6 8.62	+19 52.2	2.199	2.986	13.3	20.3
271041	2003 <i>EY</i> ₃		12 29.6 2°64	21°1/29.7	17		410540	2008 <i>FK</i> ₆₀		12 29.6 295°44	3°3/30.1	18	
11 27	7 27.55	+60 1.1	0.985	1.774	25.9	19.7	11 27	6 59.49	+13 59.7	1.847	2.675	13.8	21.0
12 7	7 20.39	+62 4.8	0.944	1.773	23.8	19.5	12 7	6 54.34	+13 55.9	1.749	2.651	10.6	20.7
12 17	7 4.03	+63 28.5	0.917	1.772	22.1	19.4	12 17	6 46.77	+14 1.7	1.674	2.626	6.8	20.4
12 27	6 41.11	+63 48.6	0.906	1.772	21.2	19.4	12 27	6 37.50	+14 17.2	1.626	2.601	3.6	20.2
1 6	6 17.55	+62 52.8	0.911	1.773	21.4	19.4	1 6	6 27.58	+14 41.7	1.607	2.576	4.7	20.2
1 16	5 59.35	+60 48.3	0.932	1.774	22.8	19.5	1 16	6 18.22	+15 13.4	1.616	2.551	8.6	20.4
1 26	5 49.64	+57 56.8	0.970	1.776	24.8	19.6	1 26	6 10.60	+15 50.3	1.651	2.527	12.6	20.5
2 5	5 48.23	+54 42.2	1.021	1.779	27.1	19.8	2 5	6 5.55	+16 30.2	1.707	2.502	16.2	20.7
521555	2015 <i>OY</i> ₁₀₂		12 29.6 22°20	4°7/29.9	18		266911	2009 <i>WV</i> ₂₄₈		12 29.6 126°03	1°2/29.9	18	
11 27	6 59.99	+12 14.4	1.724	2.551	14.7	20.6	11 27	6 58.92	+17 37.1	2.294	3.120	11.6	20.0
12 7	6 54.45	+11 35.4	1.655	2.553	11.3	20.4	12 7	6 53.33	+18 0.5	2.219	3.123	8.5	19.8
12 17	6 46.62	+11 6.2	1.609	2.555	7.6	20.2	12 17	6 45.89	+18 30.0	2.169	3.126	5.1	19.6
12 27	6 37.37	+10 48.6	1.589	2.557	4.9	20.1	12 27	6 37.28	+19 3.6	2.149	3.129	1.7	19.4
1 6	6 27.83	+10 43.1	1.597	2.559	5.8	20.1	1 6	6 28.38	+19 39.5	2.158	3.132	3.0	19.5
1 16	6 19.20	+10 49.4	1.633	2.562	9.1	20.3	1 16	6 20.13	+20 15.5	2.198	3.135	6.5	19.7
1 26	6 12.50	+11 5.8	1.694	2.564	12.7	20.5	1 26	6 13.37	+20 50.4	2.265	3.138	9.8	19.9
2 5	6 8.39	+11 29.8	1.776	2.567	15.8	20.8	2 5	6 8.69	+21 23.2	2.357	3.140	12.6	20.1
449703	2014 <i>MT</i> ₆		12 29.6 192°81	4°8/30.5	18		450650	2006 <i>UT</i> ₇₇		12 29.6 25°79	0°5/29.5	18	
11 27	7 0.15	+ 7 15.8	2.431	3.224	12.0	22.6	11 27	7 1.57	+24 17.8	1.702	2.545	14.2	21.3
12 7	6 54.05	+ 7 1.3	2.348	3.222	9.5	22.4	12 7	6 55.81	+24 22.9	1.634	2.548	10.3	21.1
12 17	6 46.22	+ 6 58.0	2.291	3.220	6.9	22.3	12 17	6 47.50	+24 28.2	1.590	2.551	6.0	20.8
12 27	6 37.28	+ 7 6.9	2.262	3.216	5.0	22.1	12 27	6 37.62	+24 31.6	1.572	2.555	1.3	20.5
1 6	6 28.06	+ 7 27.9	2.262	3.212	5.4	22.1	1 6	6 27.45	+24 31.2	1.583	2.558	3.6	20.7
1 16	6 19.41	+ 7 59.6	2.293	3.208	7.6	22.3	1 16	6 18.30	+24 26.7	1.622	2.562	8.1	21.0
1 26	6 12.13	+ 8 39.7	2.351	3.202	10.3	22.4	1 26	6 11.31	+24 19.3	1.687	2.567	12.2	21.2
2 5	6 6.79	+ 9 25.5	2.433	3.196	12.8	22.6	2 5	6 7.17	+24 10.4	1.773	2.571	15.6	21.4
177482	2004 <i>EV</i> ₁₆		12 29.6 230°12	6°3/28.2	18		278070	2007 <i>AP</i>		12 29.6 329°55	1°0/29.5	18	
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Table with columns for date (2020/21), coordinates (alpha_2000, delta_2000), and parameters (Delta, r, beta, V). It lists data for various astronomical objects including Nuwa, 101981, 174381, 329130, 373072, 474245, 491526, 28649, 294521, 175282, 354992, 394496, 102740, 334121, 485122, 139075, and 419320. Each entry includes a grid of values for different time intervals.

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
326326	1999 <i>XN</i> ₂₂₃	12 29.6	332°41	0°7/29.8	18		418843	2008 <i>WW</i> ₅₁	12 29.6	28°42	0°9/29.7	16	
11 27	6 59.15	+19 3.1	2.120	2.951	12.2	20.3	11 27	6 58.99	+21 3.5	1.820	2.662	13.5	20.6
12 7	6 53.71	+19 35.0	2.042	2.949	9.0	20.1	12 7	6 53.67	+20 52.4	1.760	2.673	9.8	20.4
12 17	6 46.22	+20 12.8	1.989	2.948	5.2	19.9	12 17	6 46.18	+20 43.9	1.724	2.685	5.7	20.2
12 27	6 37.40	+20 54.1	1.964	2.946	1.3	19.6	12 27	6 37.41	+20 37.2	1.715	2.697	1.5	19.9
1 6	6 28.22	+21 36.3	1.970	2.944	3.1	19.7	1 6	6 28.48	+20 31.6	1.735	2.710	3.4	20.1
1 16	6 19.69	+22 16.9	2.005	2.943	7.0	20.0	1 16	6 20.52	+20 26.9	1.783	2.724	7.5	20.4
1 26	6 12.78	+22 54.6	2.067	2.942	10.5	20.2	1 26	6 14.47	+20 23.4	1.857	2.738	11.2	20.6
2 5	6 8.14	+23 28.6	2.153	2.940	13.5	20.4	2 5	6 10.91	+20 21.2	1.953	2.752	14.3	20.9
311766	2006 <i>TX</i> ₁₂₂	12 29.6	39°83	7°0/29.4	17		97538	2000 <i>DM</i> ₃₅	12 29.6	345°77	1°7/29.9	18	
11 27	7 7.04	+39 31.0	1.528	2.360	16.1	20.9	11 27	6 58.29	+18 8.7	1.982	2.817	12.8	19.9
12 7	7 0.27	+40 8.0	1.479	2.374	12.6	20.7	12 7	6 53.16	+18 8.8	1.905	2.813	9.5	19.7
12 17	6 50.20	+40 30.2	1.451	2.389	9.2	20.5	12 17	6 45.94	+18 14.3	1.853	2.810	5.7	19.4
12 27	6 38.21	+40 30.9	1.449	2.405	7.0	20.4	12 27	6 37.38	+18 24.3	1.828	2.808	2.1	19.2
1 6	6 26.14	+40 7.4	1.473	2.421	7.9	20.5	1 6	6 28.49	+18 37.7	1.832	2.805	3.5	19.3
1 16	6 15.75	+39 22.2	1.523	2.438	10.7	20.7	1 16	6 20.34	+18 53.2	1.864	2.803	7.4	19.5
1 26	6 8.39	+38 21.9	1.597	2.455	14.0	21.0	1 26	6 13.89	+19 10.2	1.923	2.801	11.0	19.7
2 5	6 4.66	+37 13.7	1.691	2.473	16.9	21.2	2 5	6 9.78	+19 27.8	2.005	2.800	14.1	19.9
178922	2001 <i>QE</i> ₂₄	12 29.6	65°68	4°7/29.2	18		220942	2005 <i>JB</i> ₁₁₂	12 29.6	214°76	0°1/29.6	18	
11 27	7 6.74	+34 35.8	1.732	2.564	14.5	19.5	11 27	7 5.37	+23 2.6	1.565	2.406	15.3	21.4
12 7	6 59.53	+35 11.0	1.686	2.587	10.9	19.3	12 7	6 58.91	+23 12.4	1.490	2.402	11.3	21.2
12 17	6 49.58	+35 37.0	1.663	2.611	7.3	19.1	12 17	6 49.50	+23 24.3	1.437	2.398	6.5	20.9
12 27	6 38.08	+35 48.5	1.667	2.634	4.8	19.0	12 27	6 38.15	+23 35.4	1.412	2.394	1.4	20.5
1 6	6 26.55	+35 43.2	1.699	2.658	5.8	19.1	1 6	6 26.31	+23 43.1	1.414	2.389	3.9	20.7
1 16	6 16.43	+35 22.1	1.759	2.682	9.0	19.4	1 16	6 15.51	+23 46.5	1.445	2.384	9.0	21.0
1 26	6 8.86	+34 49.3	1.844	2.705	12.3	19.6	1 26	6 7.14	+23 46.5	1.500	2.379	13.5	21.2
2 5	6 4.44	+34 9.9	1.951	2.728	15.1	19.9	2 5	6 2.01	+23 44.7	1.577	2.374	17.3	21.5
263222	2008 <i>AA</i> ₄₅	12 29.6	15°08	6°5/31.5	18		35665	1998 <i>RF</i> ₁₈	12 29.6	203°24	0°6/29.5	18	
11 27	6 58.98	+4 58.1	1.587	2.400	16.5	20.1	11 27	7 5.80	+24 29.1	1.765	2.599	14.1	19.5
12 7	6 53.96	+5 9.2	1.519	2.403	13.1	19.9	12 7	6 58.95	+24 36.7	1.687	2.596	10.4	19.3
12 17	6 46.51	+5 41.4	1.473	2.406	9.6	19.7	12 17	6 49.42	+24 44.3	1.632	2.592	6.0	19.0
12 27	6 37.49	+6 35.4	1.452	2.409	6.9	19.5	12 27	6 38.13	+24 49.1	1.605	2.588	1.4	18.7
1 6	6 28.09	+7 48.5	1.457	2.413	7.0	19.6	1 6	6 26.40	+24 49.1	1.608	2.583	3.7	18.8
1 16	6 19.56	+9 15.9	1.490	2.418	9.9	19.7	1 16	6 15.65	+24 43.9	1.640	2.577	8.3	19.1
1 26	6 13.03	+10 51.3	1.548	2.423	13.4	19.9	1 26	6 7.12	+24 34.9	1.698	2.571	12.5	19.3
2 5	6 9.22	+12 28.3	1.628	2.429	16.6	20.2	2 5	6 1.56	+24 24.1	1.778	2.565	16.0	19.6
521969	2015 <i>VJ</i> ₁₆₁	12 29.6	329°57	1°1/29.4	17		233891	2008 <i>XA</i> ₅₄	12 29.6	144°67	1°1/29.8	18	
11 27	7 0.86	+24 33.3	1.757	2.599	13.8	21.6	11 27	6 57.99	+18 52.2	2.620	3.443	10.4	21.2
12 7	6 55.41	+25 2.1	1.680	2.594	10.1	21.3	12 7	6 52.46	+18 54.1	2.544	3.447	7.6	21.1
12 17	6 47.39	+25 32.5	1.628	2.589	5.9	21.1	12 17	6 45.33	+18 59.4	2.494	3.451	4.5	20.9
12 27	6 37.69	+26 1.0	1.602	2.584	1.6	20.8	12 27	6 37.24	+19 7.4	2.474	3.455	1.5	20.7
1 6	6 27.52	+26 24.6	1.605	2.580	3.8	20.9	1 6	6 28.94	+19 17.0	2.485	3.458	2.7	20.8
1 16	6 18.22	+26 41.4	1.637	2.575	8.2	21.2	1 16	6 21.24	+19 27.7	2.526	3.462	5.9	21.0
1 26	6 10.99	+26 51.8	1.693	2.571	12.3	21.4	1 26	6 14.85	+19 38.8	2.595	3.465	8.8	21.2
2 5	6 6.59	+26 57.2	1.772	2.568	15.7	21.6	2 5	6 10.28	+19 50.3	2.689	3.468	11.3	21.3
113882	2002 <i>TF</i> ₂₆₄	12 29.6	62°44	0°1/29.6	18		358673	2007 <i>XG</i> ₅₁	12 29.6	213°96	3°3/30.3	18	
11 27	7 2.87	+23 20.1	1.668	2.509	14.5	19.6	11 27	6 59.86	+12 35.5	2.179	2.995	12.5	20.9
12 7	6 56.65	+23 25.0	1.611	2.524	10.5	19.4	12 7	6 54.13	+12 36.0	2.097	2.991	9.5	20.7
12 17	6 47.94	+23 31.1	1.578	2.539	6.0	19.2	12 17	6 46.44	+12 45.8	2.039	2.986	6.2	20.5
12 27	6 37.76	+23 35.9	1.572	2.555	1.3	18.9	12 27	6 37.49	+13 4.7	2.009	2.981	3.5	20.3
1 6	6 27.44	+23 38.0	1.595	2.571	3.5	19.1	1 6	6 28.20	+13 31.6	2.010	2.976	4.3	20.4
1 16	6 18.27	+23 36.8	1.646	2.586	8.0	19.4	1 16	6 19.53	+14 4.8	2.039	2.970	7.4	20.5
1 26	6 11.33	+23 33.4	1.723	2.602	12.0	19.7	1 26	6 12.39	+14 42.4	2.096	2.965	10.7	20.7
2 5	6 7.24	+23 28.9	1.822	2.618	15.3	19.9	2 5	6 7.41	+15 22.4	2.177	2.959	13.6	20.9
453655	2010 <i>TV</i> ₁₂₃	12 29.6	352°10	4°4/28.8	17		494401	2016 <i>UA</i> ₅₉	12 29.6	137°65	2°5/29.5	18	
11 27	7 1.65	+31 42.7	1.599	2.445	14.8	21.0	11 27	7 8.47	+29 30.7	1.688	2.521	14.7	21.7
12 7	6 56.37	+32 35.2	1.530	2.441	11.1	20.8	12 7	7 0.89	+29 42.2	1.623	2.530	10.9	21.5
12 17	6 48.10	+33 23.3	1.483	2.438	7.2	20.5	12 17	6 50.46	+29 48.6	1.583	2.540	6.6	21.2
12 27	6 37.85	+34 0.8	1.462	2.435	4.5	20.4	12 27	6 38.32	+29 45.8	1.570	2.549	2.8	21.0
1 6	6 27.07	+34 23.1	1.469	2.433	5.9	20.4	1 6	6 25.97	+29 31.9	1.586	2.557	4.5	21.1
1 16	6 17.37	+34 28.7	1.502	2.431	9.7	20.6	1 16	6 14.91	+29 7.7	1.631	2.565	8.7	21.4
1 26	6 10.13	+34 19.9	1.560	2.430	13.6	20.9	1 26	6 6.39	+28 36.7	1.702	2.572	12.6	21.7
2 5	6 6.18	+34 0.9	1.638	2.430	16.9	21.1	2 5	6 1.08	+28 2.8	1.795	2.579	16.0	21.9
22821	1999 <i>RS</i> ₃₃	12 29.6	114°48	2°6/29.3	18		233227	2005 <i>YK</i> ₃₈	12 29.6	19°19	6°4/28.6	18	
11 27	7 9.07	+28 8.8	1.620	2.455	15.2	19.4	11 27	7 5.01	+34 8.1	1.308	2.158	17.2	19.4
12 7	7 1.36	+28 47.5	1.565	2.473	11.1	19.2	12 7	6 59.39	+35 21.1	1.250	2.161	13.1	19.1
12 17	6 50.73	+29 23.4	1.534	2.491	6.7	19.0	12 17	6 50.07	+36 26.6	1.215	2.165	9.0	18.9
12 27	6 38.37	+29 51.0	1.530	2.509	2.9	18.8	12 27	6 38.30	+37 15.3	1.204	2.170	6.4	18.8
1 6	6 25.80	+30 6.7	1.556	2.526	4.7	19.0	1 6	6 25.99	+37 40.6	1.218	2.176	7.9	18.9
1 16	6 14.60	+30 10.0	1.609	2.542	8.9	19.3	1 16	6 15.19	+37 41.5	1.257	2.182	11.7	19.1
1 26	6 6.02	+30 3.5	1.689	2.557	12.8	19.5	1 26	6 7.56	+37 22.5	1.319	2.188	15.6	19.4
2 5	6 0.73	+29 50.8	1.790	2.572	16.1	19.8	2 5	6 3.97	+36 50.5	1.400	2.195	19.1	19.6
384666	2011 <i>FE</i> ₃₅	12 29.6	20°98	3°0/30.1	18		294185	2007 <i>TB</i> ₄₀₁	12 29.6	92°92	2°2/29.9	18	
11 27													

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
418460	2008 RA ₄₀		12 29.6	86°57'	3°9/30.4	16	481803	2008 TW ₁₀₈		12 29.6	36°51'	3°1/29.1	18
11 27	6 58.14	+10 46.0	2.289	3.101	12.1	21.7	11 27	7 3.73	+27 24.1	1.254	2.111	17.3	20.8
12 7	6 52.65	+10 30.7	2.223	3.112	9.3	21.5	12 7	6 58.14	+28 17.0	1.204	2.124	12.7	20.6
12 17	6 45.47	+10 24.8	2.182	3.123	6.3	21.4	12 17	6 49.18	+29 8.8	1.176	2.138	7.6	20.3
12 27	6 37.29	+10 29.0	2.169	3.134	4.1	21.2	12 27	6 38.12	+29 52.7	1.173	2.152	3.3	20.1
1 6	6 28.93	+10 42.6	2.185	3.146	4.6	21.3	1 6	6 26.78	+30 23.3	1.196	2.167	5.4	20.3
1 16	6 21.27	+11 4.6	2.231	3.156	7.2	21.5	1 16	6 16.94	+30 39.2	1.245	2.183	10.2	20.6
1 26	6 15.05	+11 33.1	2.303	3.167	10.0	21.7	1 26	6 10.09	+30 42.4	1.316	2.200	14.7	20.9
2 5	6 10.80	+12 5.9	2.400	3.178	12.6	21.9	2 5	6 6.94	+30 36.7	1.408	2.217	18.3	21.2
95711	2003 AK		12 29.6	307°58'	3°7/30.9	18 R	518984	2010 JH ₆		12 29.6	95°52'	3°1/29.1	18
11 27	7 4.23	+9 32.8	1.376	2.203	17.8	18.0	11 27	7 4.59	+30 19.9	1.922	2.754	13.2	21.5
12 7	6 59.07	+10 41.5	1.263	2.163	13.9	17.7	12 7	6 57.87	+30 58.0	1.862	2.768	9.8	21.3
12 17	6 50.32	+12 20.2	1.172	2.123	9.2	17.3	12 17	6 48.68	+31 31.8	1.827	2.782	6.1	21.1
12 27	6 38.52	+14 28.5	1.106	2.082	4.5	16.9	12 27	6 38.00	+31 56.8	1.820	2.796	3.2	21.0
1 6	6 24.94	+17 0.2	1.068	2.041	5.5	16.8	1 6	6 27.10	+32 10.1	1.843	2.809	4.6	21.1
1 16	6 11.41	+19 43.9	1.059	2.001	11.2	17.0	1 16	6 17.26	+32 11.3	1.894	2.823	8.1	21.3
1 26	5 59.97	+22 27.5	1.076	1.960	17.2	17.2	1 26	6 9.57	+32 2.4	1.972	2.836	11.4	21.5
2 5	5 52.21	+25 2.0	1.115	1.921	22.4	17.4	2 5	6 4.69	+31 46.6	2.071	2.849	14.3	21.8
118571	2000 GB ₅		12 29.6	247°99'	3°9/29.0	18	142974	2002 VO ₈₃		12 29.6	26°23'	0°2/29.7	18
11 27	7 6.53	+31 6.1	1.702	2.537	14.5	19.7	11 27	7 2.68	+19 54.6	1.278	2.131	17.3	19.4
12 7	6 59.93	+31 49.3	1.619	2.525	10.9	19.4	12 7	6 57.34	+20 38.9	1.216	2.135	12.7	19.1
12 17	6 50.23	+32 28.9	1.559	2.513	7.0	19.2	12 17	6 48.77	+21 32.2	1.177	2.140	7.4	18.8
12 27	6 38.36	+32 58.4	1.526	2.500	4.0	19.0	12 27	6 38.07	+22 29.6	1.162	2.145	1.6	18.5
1 6	6 25.81	+33 13.5	1.522	2.487	5.5	19.0	1 6	6 26.88	+23 25.7	1.174	2.150	4.3	18.7
1 16	6 14.22	+33 12.7	1.546	2.474	9.6	19.2	1 16	6 16.92	+24 16.0	1.213	2.157	9.8	19.0
1 26	6 5.08	+32 58.4	1.595	2.460	13.6	19.5	1 26	6 9.69	+24 58.7	1.275	2.163	14.7	19.3
2 5	5 59.30	+32 35.3	1.665	2.446	17.1	19.7	2 5	6 6.02	+25 33.9	1.357	2.170	18.7	19.6
481330	2006 BY ₅₁		12 29.6	353°74'	0°9/29.5	18	74419	1999 AA ₁₃		12 29.6	318°38'	1°3/29.9	18
11 27	7 1.21	+24 41.8	1.256	2.116	17.1	21.3	11 27	6 58.01	+18 11.4	2.057	2.890	12.4	18.7
12 7	6 56.40	+24 52.3	1.189	2.111	12.6	21.0	12 7	6 53.01	+18 26.3	1.972	2.880	9.2	18.5
12 17	6 48.26	+25 3.7	1.144	2.108	7.3	20.7	12 17	6 45.93	+18 47.3	1.911	2.869	5.5	18.2
12 27	6 37.94	+25 12.5	1.123	2.105	1.8	20.4	12 27	6 37.46	+19 13.0	1.878	2.859	1.8	18.0
1 6	6 27.10	+25 16.0	1.127	2.103	4.5	20.6	1 6	6 28.57	+19 41.6	1.874	2.849	3.3	18.1
1 16	6 17.55	+25 13.3	1.157	2.102	10.0	20.9	1 16	6 20.31	+20 11.2	1.899	2.839	7.2	18.3
1 26	6 10.80	+25 6.0	1.210	2.102	15.0	21.2	1 26	6 13.65	+20 40.4	1.952	2.829	10.9	18.5
2 5	6 7.69	+24 56.2	1.283	2.103	19.1	21.4	2 5	6 9.29	+21 8.5	2.027	2.820	14.1	18.7
344012	2011 UE ₁₅₃		12 29.6	196°45'	0°0/29.4	18	266202	2006 WO ₂₀		12 29.6	249°70'	1°6/29.9	18
11 27	7 2.08	+22 6.2	2.028	2.860	12.7	21.3	11 27	7 3.98	+18 26.8	1.631	2.466	15.0	21.5
12 7	6 55.95	+22 23.0	1.950	2.858	9.3	21.0	12 7	6 57.90	+18 33.4	1.545	2.454	11.2	21.2
12 17	6 47.57	+22 42.5	1.897	2.857	5.4	20.8	12 17	6 48.99	+18 46.7	1.482	2.441	6.7	20.9
12 27	6 37.76	+23 2.2	1.872	2.855	1.1	20.5	12 27	6 38.13	+19 5.4	1.446	2.427	2.2	20.6
1 6	6 27.59	+23 20.1	1.878	2.852	3.2	20.7	1 6	6 26.64	+19 27.0	1.439	2.413	4.1	20.7
1 16	6 18.19	+23 34.8	1.912	2.850	7.3	20.9	1 16	6 15.96	+19 49.9	1.460	2.399	8.9	20.9
1 26	6 10.60	+23 46.4	1.974	2.847	11.0	21.1	1 26	6 7.45	+20 12.9	1.506	2.385	13.5	21.2
2 5	6 5.49	+23 55.5	2.059	2.844	14.2	21.3	2 5	6 2.00	+20 35.6	1.574	2.370	17.3	21.4
486593	2013 JB ₄₀		12 29.6	259°22'	3°0/30.2	18	7761	1990 SL		12 29.6	144°39'	4°5/28.2	18
11 27	6 59.78	+13 43.0	2.141	2.961	12.5	22.2	11 27	7 10.87	+32 18.0	2.101	2.917	12.9	18.7
12 7	6 54.22	+13 45.0	2.049	2.946	9.5	21.9	12 7	7 2.59	+33 52.1	2.037	2.931	9.7	18.5
12 17	6 46.59	+13 55.8	1.982	2.932	6.1	21.7	12 17	6 51.54	+35 22.0	1.999	2.944	6.5	18.3
12 27	6 37.57	+14 15.1	1.943	2.917	3.2	21.5	12 27	6 38.66	+36 40.3	1.992	2.956	4.5	18.2
1 6	6 28.10	+14 41.8	1.933	2.901	4.1	21.5	1 6	6 25.24	+37 41.0	2.016	2.968	5.8	18.3
1 16	6 19.19	+15 14.1	1.953	2.886	7.5	21.7	1 16	6 12.73	+38 21.9	2.070	2.978	8.7	18.5
1 26	6 11.81	+15 50.4	2.000	2.870	11.0	21.9	1 26	6 2.41	+38 44.6	2.152	2.988	11.8	18.8
2 5	6 6.65	+16 28.7	2.070	2.854	14.1	22.1	2 5	5 55.09	+38 53.2	2.256	2.997	14.4	19.0
281359	2007 VN ₃₀₁		12 29.6	57°54'	4°5/30.6	18	482242	2011 GH ₇₂		12 29.6	220°10'	2°0/29.2	18
11 27	7 5.38	+11 7.1	1.489	2.313	16.8	19.4	11 27	7 5.60	+25 59.8	1.795	2.629	13.9	22.1
12 7	6 58.22	+11 6.0	1.457	2.354	12.6	19.2	12 7	6 58.99	+26 46.7	1.714	2.622	10.3	21.8
12 17	6 48.69	+11 18.9	1.448	2.395	8.3	19.1	12 17	6 49.59	+27 35.0	1.656	2.615	6.1	21.6
12 27	6 37.95	+11 44.9	1.465	2.435	4.8	19.0	12 27	6 38.26	+28 19.6	1.627	2.607	2.3	21.3
1 6	6 27.36	+12 21.4	1.510	2.475	5.5	19.1	1 6	6 26.32	+28 56.0	1.628	2.599	4.2	21.4
1 16	6 18.18	+13 5.1	1.582	2.515	9.0	19.4	1 16	6 15.22	+29 21.9	1.657	2.590	8.6	21.7
1 26	6 11.38	+13 52.6	1.681	2.555	12.6	19.7	1 26	6 6.30	+29 37.6	1.712	2.581	12.7	21.9
2 5	6 7.44	+14 40.8	1.801	2.594	15.6	20.0	2 5	6 0.40	+29 45.3	1.790	2.571	16.1	22.1
308212	2005 ED ₉₆		12 29.6	17°45'	2°0/29.7	18	212794	2007 TM ₂₄₃		12 29.6	42°35'	8°8/29.7	18
11 27	7 0.52	+20 47.0	1.175	2.038	17.8	18.9	11 27	7 10.32	+43 11.1	1.417	2.241	17.5	19.4
12 7	6 55.68	+20 8.8	1.122	2.044	13.1	18.7	12 7	7 3.01	+43 53.5	1.371	2.258	14.1	19.3
12 17	6 47.68	+19 34.0	1.089	2.052	7.8	18.4	12 17	6 51.93	+44 16.4	1.347	2.275	10.8	19.1
12 27	6 37.79	+19 3.0	1.081	2.062	2.6	18.1	12 27	6 38.69	+44 11.4	1.347	2.292	8.9	19.0
1 6	6 27.70	+18 36.6	1.097	2.073	4.8	18.3	1 6	6 25.45	+43 35.9	1.372	2.310	9.5	19.1
1 16	6 19.08	+18 15.9	1.139	2.085	10.1	18.6	1 16	6 14.27	+42 33.7	1.422	2.329	12.0	19.3
1 26	6 13.25	+18 1.5	1.203	2.098	14.9	18.9	1 26	6 6.61	+41 13.6	1.496	2.348	15.1	19.6
2 5	6 10.88	+17 53.3	1.287	2.112	18.8	19.2	2 5	6 3.03	+39 45.1	1.589	2.367	17.9	19.8
403646	2010 TP ₄₅		12 29.6	187°98'	0°8/29.7	18	398173	2010 HZ ₂₄		12 29.6	168°73'	1°6/29.9	18
11 27	7 1.15	+20 36.7	2.130	2.960	12.2	21.7	11 27	7 1.84	+1				

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
115328	2003 SR ₂₂₂		12 29.6	41°46'	1.4°/29.4	18	249272	2008 SS ₁₈₇		12 29.6	54°47'	1.6°/29.8	17
11 27	7 0.51	+26 9.0	1.908	2.748	13.0	18.7	11 27	6 59.34	+18 51.2	2.076	2.908	12.4	20.1
12 7	6 54.84	+26 29.6	1.848	2.759	9.5	18.5	12 7	6 53.72	+18 40.8	2.014	2.921	9.1	20.0
12 17	6 46.92	+26 49.4	1.812	2.772	5.5	18.3	12 17	6 46.18	+18 34.4	1.977	2.934	5.4	19.8
12 27	6 37.65	+27 5.3	1.803	2.784	1.7	18.0	12 27	6 37.51	+18 31.5	1.968	2.948	1.9	19.5
1 6	6 28.19	+27 15.2	1.824	2.797	3.5	18.2	1 6	6 28.71	+18 31.3	1.988	2.961	3.3	19.7
1 16	6 19.68	+27 18.5	1.873	2.810	7.4	18.4	1 16	6 20.74	+18 33.5	2.037	2.975	6.9	19.9
1 26	6 13.13	+27 16.2	1.949	2.824	11.0	18.7	1 26	6 14.45	+18 37.6	2.114	2.989	10.3	20.2
2 5	6 9.14	+27 10.0	2.047	2.838	14.0	18.9	2 5	6 10.39	+18 43.5	2.213	3.003	13.1	20.4
410594	2008 HZ ₂		12 29.6	205°70'	3°3'/28.9	17	439203	2012 MO ₁₁		12 29.6	171°85'	9°2'/30.2	17
11 27	7 3.41	+31 29.5	2.270	3.096	11.7	21.4	11 27	7 3.72	- 1 14.6	2.068	2.829	14.9	21.8
12 7	6 56.94	+32 13.6	2.191	3.092	8.8	21.3	12 7	6 56.89	- 2 34.1	1.998	2.833	12.6	21.6
12 17	6 48.19	+32 54.0	2.137	3.088	5.6	21.1	12 17	6 48.04	- 3 36.6	1.952	2.837	10.5	21.5
12 27	6 37.95	+33 26.2	2.112	3.084	3.4	20.9	12 27	6 37.92	- 4 17.3	1.933	2.840	9.3	21.4
1 6	6 27.29	+33 47.1	2.118	3.080	4.5	21.0	1 6	6 27.54	- 4 33.9	1.940	2.842	9.6	21.4
1 16	6 17.37	+33 55.6	2.152	3.075	7.6	21.1	1 16	6 17.91	- 4 26.4	1.975	2.843	11.2	21.5
1 26	6 9.25	+33 53.0	2.214	3.070	10.7	21.3	1 26	6 9.97	- 3 57.9	2.034	2.843	13.4	21.7
2 5	6 3.63	+33 42.1	2.299	3.064	13.4	21.5	2 5	6 4.31	- 3 13.5	2.114	2.843	15.6	21.8
14118	1998 QF ₄₅		12 29.6	36°12'	9°1'/31.3	18	197228	2003 WT ₄₀		12 29.6	45°92'	2°4'/29.3	18
11 27	6 59.14	+ 2 30.1	1.463	2.272	17.8	17.7	11 27	7 2.03	+28 34.0	1.825	2.665	13.5	19.5
12 7	6 54.08	+ 1 40.5	1.410	2.284	14.6	17.6	12 7	6 55.98	+29 5.6	1.776	2.686	9.9	19.3
12 17	6 46.57	+ 1 12.9	1.378	2.297	11.4	17.4	12 17	6 47.57	+29 34.0	1.751	2.709	5.9	19.1
12 27	6 37.59	+ 1 11.1	1.370	2.310	9.3	17.3	12 27	6 37.81	+29 55.3	1.753	2.732	2.6	19.0
1 6	6 28.40	+ 1 35.4	1.387	2.324	9.5	17.4	1 6	6 27.94	+30 7.3	1.785	2.755	4.1	19.1
1 16	6 20.29	+ 2 22.9	1.428	2.338	11.7	17.5	1 16	6 19.18	+30 9.4	1.844	2.778	7.8	19.4
1 26	6 14.31	+ 3 27.9	1.492	2.353	14.7	17.7	1 26	6 12.56	+30 3.3	1.929	2.802	11.3	19.7
2 5	6 11.11	+ 4 43.4	1.577	2.368	17.5	18.0	2 5	6 8.64	+29 51.7	2.037	2.825	14.2	19.9
240169	2002 PM ₁₂₈		12 29.6	142°67'	0°6'/29.7	18	60284	1999 XY ₁₀₂		12 29.6	284°80'	1°4'/29.3	18
11 27	7 3.09	+20 55.7	2.212	3.036	12.0	21.6	11 27	7 2.65	+23 20.2	1.762	2.601	13.9	18.7
12 7	6 56.38	+20 58.7	2.143	3.047	8.8	21.4	12 7	6 56.93	+24 21.6	1.678	2.589	10.3	18.4
12 17	6 47.69	+21 4.0	2.100	3.058	5.1	21.2	12 17	6 48.47	+25 28.5	1.617	2.578	6.0	18.2
12 27	6 37.82	+21 10.3	2.086	3.068	1.3	20.9	12 27	6 38.08	+26 35.8	1.585	2.566	1.8	17.9
1 6	6 27.75	+21 16.2	2.103	3.077	3.0	21.1	1 6	6 26.98	+27 38.1	1.582	2.555	4.0	18.0
1 16	6 18.50	+21 21.1	2.150	3.086	6.7	21.3	1 16	6 16.60	+28 31.3	1.607	2.544	8.6	18.2
1 26	6 10.96	+21 25.2	2.225	3.094	10.1	21.5	1 26	6 8.26	+29 14.0	1.659	2.532	12.7	18.5
2 5	6 5.70	+21 28.9	2.323	3.102	12.9	21.7	2 5	6 2.87	+29 47.2	1.733	2.521	16.3	18.7
6584	Ludekpesek		12 29.6	215°51'	2°9'/30.0	18	82129	2001 FW ₉₉		12 29.6	265°19'	2°8'/29.1	18
11 27	7 3.81	+15 37.4	1.640	2.470	15.2	17.4	11 27	7 5.40	+26 49.1	1.477	2.323	15.8	19.6
12 7	6 57.60	+15 31.4	1.562	2.466	11.4	17.1	12 7	6 59.38	+27 46.4	1.401	2.315	11.7	19.4
12 17	6 48.72	+15 34.1	1.507	2.461	7.1	16.9	12 17	6 50.06	+28 45.4	1.348	2.308	7.1	19.1
12 27	6 38.08	+15 45.1	1.479	2.456	3.3	16.6	12 27	6 38.43	+29 39.6	1.322	2.301	3.1	18.8
1 6	6 26.95	+16 2.9	1.479	2.450	4.6	16.7	1 6	6 26.06	+30 22.7	1.322	2.293	5.2	18.9
1 16	6 16.71	+16 26.1	1.507	2.444	9.0	16.9	1 16	6 14.70	+30 51.6	1.350	2.285	10.0	19.2
1 26	6 8.63	+16 52.9	1.561	2.438	13.2	17.2	1 26	6 5.98	+31 7.2	1.403	2.278	14.5	19.4
2 5	6 3.47	+17 22.0	1.637	2.431	16.8	17.4	2 5	6 0.84	+31 12.4	1.475	2.270	18.3	19.7
10359	1993 TU ₃₆		12 29.6	102°13'	0°4'/29.5	18	261055	2005 ST ₁₇₈		12 29.6	280°86'	2°9'/29.3	17
11 27	7 5.72	+21 31.6	1.693	2.527	14.6	17.3	11 27	7 3.04	+30 38.8	1.960	2.793	13.0	20.7
12 7	6 58.81	+22 19.3	1.635	2.545	10.7	17.1	12 7	6 56.87	+30 58.1	1.883	2.789	9.7	20.4
12 17	6 49.29	+23 11.5	1.602	2.562	6.1	16.8	12 17	6 48.22	+31 12.7	1.830	2.786	6.0	20.2
12 27	6 38.17	+24 3.5	1.597	2.579	1.3	16.6	12 27	6 37.99	+31 18.8	1.806	2.782	3.0	20.0
1 6	6 26.79	+24 51.2	1.621	2.596	3.6	16.8	1 6	6 27.40	+31 14.2	1.810	2.778	4.4	20.1
1 16	6 16.51	+25 31.7	1.675	2.612	8.2	17.1	1 16	6 17.72	+30 58.9	1.843	2.775	8.0	20.3
1 26	6 8.49	+26 4.5	1.755	2.628	12.1	17.3	1 26	6 10.11	+30 35.2	1.902	2.771	11.6	20.5
2 5	6 3.43	+26 30.5	1.857	2.644	15.4	17.6	2 5	6 5.24	+30 6.3	1.984	2.767	14.7	20.7
370610	2003 XR ₁₆		12 29.6	26°67'	1°7'/30.1	17	120556	1995 CG ₁₀		12 29.6	81°08'	1°8'/29.9	18 R
11 27	6 58.65	+16 1.9	1.902	2.734	13.3	20.1	11 27	7 5.31	+18 18.4	1.544	2.380	15.7	20.1
12 7	6 53.49	+16 36.8	1.835	2.741	9.9	19.8	12 7	6 58.46	+18 20.7	1.494	2.403	11.5	19.9
12 17	6 46.18	+17 20.9	1.792	2.749	5.9	19.6	12 17	6 49.04	+18 29.4	1.468	2.426	6.8	19.7
12 27	6 37.53	+18 11.7	1.777	2.757	2.2	19.4	12 27	6 38.13	+18 42.7	1.468	2.449	2.3	19.4
1 6	6 28.58	+19 6.1	1.791	2.765	3.5	19.5	1 6	6 27.14	+18 58.7	1.497	2.471	4.0	19.6
1 16	6 20.40	+20 0.8	1.834	2.774	7.4	19.8	1 16	6 17.44	+19 16.0	1.554	2.493	8.5	19.9
1 26	6 13.98	+20 53.4	1.904	2.783	11.0	20.0	1 26	6 10.12	+19 33.7	1.636	2.515	12.6	20.2
2 5	6 9.96	+21 42.3	1.997	2.793	14.1	20.2	2 5	6 5.78	+19 51.4	1.740	2.536	15.9	20.5
231388	2006 KB ₁₇		12 29.6	12°32'	2°1'/30.2	18	216628	2002 YX ₃₀		12 29.6	26°21'	1°0'/29.9	18
11 27	6 58.17	+15 23.6	2.096	2.923	12.5	19.7	11 27	7 0.90	+16 43.1	1.496	2.339	15.8	19.5
12 7	6 53.00	+15 44.9	2.021	2.924	9.3	19.5	12 7	6 55.65	+17 45.7	1.434	2.347	11.6	19.2
12 17	6 45.86	+16 14.7	1.971	2.926	5.7	19.3	12 17	6 47.65	+19 0.4	1.396	2.356	6.8	19.0
12 27	6 37.47	+16 51.4	1.949	2.927	2.4	19.0	12 27	6 37.89	+20 22.6	1.383	2.365	1.8	18.7
1 6	6 28.76	+17 32.9	1.957	2.929	3.5	19.1	1 6	6 27.70	+21 45.9	1.399	2.375	3.8	18.9
1 16	6 20.72	+18 16.8	1.993	2.931	7.0	19.4	1 16	6 18.51	+23 5.0	1.443	2.386	8.7	19.2
1 26	6 14.26	+19 1.0	2.057	2.934	10.5	19.6	1 26	6 11.59	+24 16.3	1.513	2.397	13.0	19.5
2 5	6 10.00	+19 43.8	2.145	2.936	13.5	19.8	2 5	6 7.72	+25 18.2	1.604	2.409	16.6	19.7
355468	2007 VE ₂₉₈		12 29.6	68°77'	5°9'/31.2	18	522148	2016 AH ₂₅₀		12 29.6	29°39'	1°7'/29.9	16
11 27	7 1.26	+ 6 19.3	1.661	2.471	16.0	20.7	11 27	6 59.1					

EPHEMERIDES

12 29.6

12 29.6

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
46593	1992 YP ₁		12 29.6 325°13	1.5°/29.4	18		44514	1998 XE ₆₅		12 29.6 24°75	5°4/29.7	18	
11 27	7 3.27	+24 22.6	1.327	2.181	16.7	18.0	11 27	7 6.49	+36 39.4	1.505	2.342	16.0	17.9
12 7	6 57.95	+25 0.0	1.255	2.174	12.3	17.7	12 7	6 59.92	+36 48.8	1.445	2.348	12.3	17.7
12 17	6 49.26	+25 40.8	1.205	2.168	7.2	17.4	12 17	6 50.12	+36 45.3	1.407	2.355	8.3	17.5
12 27	6 38.27	+26 19.8	1.180	2.162	2.0	17.1	12 27	6 38.41	+36 23.6	1.394	2.362	5.6	17.3
1 6	6 26.60	+26 52.1	1.182	2.157	4.7	17.2	1 6	6 26.55	+35 42.0	1.409	2.369	6.5	17.4
1 16	6 16.07	+27 15.0	1.210	2.152	10.1	17.5	1 16	6 16.24	+34 43.6	1.449	2.378	10.1	17.6
1 26	6 8.29	+27 28.7	1.261	2.147	15.0	17.8	1 26	6 8.86	+33 34.5	1.515	2.387	13.8	17.9
2 5	6 4.19	+27 35.5	1.331	2.143	19.1	18.0	2 5	6 5.03	+32 21.6	1.601	2.396	17.1	18.1
104606	2000 GS ₉₉		12 29.6 235°15	3°8/30.1	18		336100	2008 HL ₄₄		12 29.6 131°91	1°0/29.8	18	
11 27	6 57.69	+10 47.0	2.692	3.497	10.7	20.1	11 27	7 5.80	+19 33.0	1.854	2.680	13.9	22.0
12 7	6 52.28	+10 19.2	2.603	3.488	8.3	20.0	12 7	6 58.64	+19 42.5	1.791	2.696	10.2	21.8
12 17	6 45.31	+9 58.6	2.540	3.478	5.7	19.8	12 17	6 49.14	+19 56.4	1.752	2.710	6.0	21.6
12 27	6 37.37	+9 46.4	2.505	3.468	3.9	19.7	12 27	6 38.21	+20 12.7	1.742	2.724	1.7	21.3
1 6	6 29.16	+9 42.8	2.501	3.457	4.4	19.7	1 6	6 27.08	+20 29.4	1.762	2.737	3.5	21.5
1 16	6 21.43	+9 47.7	2.526	3.447	6.7	19.8	1 16	6 16.97	+20 45.4	1.812	2.749	7.7	21.7
1 26	6 14.90	+10 0.1	2.579	3.436	9.4	20.0	1 26	6 8.92	+21 0.2	1.889	2.761	11.5	22.0
2 5	6 10.08	+10 18.4	2.657	3.424	11.8	20.1	2 5	6 3.57	+21 14.1	1.988	2.771	14.7	22.2
477853	2011 GN ₃₆		12 29.6 304°78	9°0/29.7	18		47269	1999 VH ₁₃₅		12 29.6 321°82	4°4/30.2	18	
11 27	7 0.41	+6 33.1	1.357	2.183	18.0	21.3	11 27	7 1.10	+13 32.5	1.293	2.138	17.6	17.6
12 7	6 55.65	+5 16.3	1.273	2.162	14.7	21.0	12 7	6 56.22	+13 20.6	1.219	2.129	13.5	17.3
12 17	6 47.89	+4 14.1	1.210	2.141	11.3	20.8	12 17	6 48.22	+13 22.1	1.166	2.120	8.8	17.1
12 27	6 38.00	+3 32.7	1.169	2.120	9.2	20.6	12 27	6 38.09	+13 37.6	1.137	2.112	4.8	16.8
1 6	6 27.33	+3 16.6	1.154	2.099	9.9	20.6	1 6	6 27.32	+14 5.9	1.134	2.105	5.9	16.9
1 16	6 17.44	+3 26.7	1.162	2.079	13.1	20.7	1 16	6 17.56	+14 44.3	1.157	2.097	10.6	17.1
1 26	6 9.84	+4 0.3	1.192	2.059	17.1	20.9	1 26	6 10.31	+15 29.5	1.202	2.090	15.4	17.3
2 5	6 5.50	+4 51.6	1.241	2.040	20.9	21.0	2 5	6 6.49	+16 18.0	1.267	2.084	19.5	17.6
112007	2002 GG ₁₅₃		12 29.6 88°47	3°5/28.8	18		459810	2013 SN ₈		12 29.6 61°32	0°1/29.6	18	
11 27	7 6.91	+28 52.9	1.724	2.558	14.4	19.3	11 27	7 0.32	+24 14.2	2.225	3.056	11.7	20.9
12 7	6 59.86	+30 9.1	1.670	2.578	10.6	19.1	12 7	6 54.42	+24 4.0	2.155	3.064	8.5	20.7
12 17	6 50.00	+31 23.3	1.642	2.597	6.6	18.9	12 17	6 46.61	+23 53.3	2.111	3.071	4.9	20.5
12 27	6 38.38	+32 28.2	1.641	2.616	3.6	18.8	12 27	6 37.68	+23 40.8	2.096	3.079	1.0	20.2
1 6	6 26.44	+33 18.6	1.670	2.634	5.2	18.9	1 6	6 28.58	+23 26.1	2.111	3.086	2.9	20.4
1 16	6 15.66	+33 52.4	1.727	2.653	8.9	19.2	1 16	6 20.29	+23 9.5	2.156	3.094	6.6	20.6
1 26	6 7.29	+34 11.1	1.810	2.671	12.5	19.5	1 26	6 13.67	+22 52.0	2.228	3.102	9.9	20.8
2 5	6 2.07	+34 18.2	1.914	2.688	15.5	19.7	2 5	6 9.25	+22 35.0	2.324	3.109	12.7	21.0
277288	2005 SA ₈₉		12 29.6 150°55	2°1/29.9	18		185978	2001 MO ₉		12 29.6 146°20	2°6/30.1	18	
11 27	7 5.13	+17 18.8	1.998	2.818	13.3	22.2	11 27	7 4.80	+15 9.6	2.147	2.960	12.7	20.8
12 7	6 58.01	+17 11.1	1.929	2.829	9.8	22.0	12 7	6 57.62	+15 3.2	2.079	2.974	9.5	20.6
12 17	6 48.71	+17 8.7	1.885	2.839	6.0	21.8	12 17	6 48.45	+15 3.4	2.037	2.987	5.9	20.4
12 27	6 38.09	+17 10.9	1.870	2.849	2.4	21.6	12 27	6 38.07	+15 9.9	2.024	3.000	2.9	20.2
1 6	6 27.26	+17 16.6	1.885	2.857	3.7	21.7	1 6	6 27.52	+15 21.6	2.042	3.011	3.9	20.3
1 16	6 17.33	+17 25.2	1.931	2.865	7.5	22.0	1 16	6 17.80	+15 37.4	2.090	3.021	7.2	20.5
1 26	6 9.28	+17 36.1	2.003	2.872	11.1	22.2	1 26	6 9.82	+15 56.4	2.166	3.031	10.5	20.8
2 5	6 3.73	+17 48.8	2.099	2.878	14.1	22.4	2 5	6 4.15	+16 17.5	2.266	3.039	13.4	21.0
28881	2000 KG ₄₈		12 29.6 92°80	2°5/30.2	18		377494	2005 EA ₁₄₄		12 29.6 296°57	2°1/29.4	18	
11 27	7 0.45	+14 56.2	1.911	2.737	13.5	18.3	11 27	7 5.16	+26 28.4	1.323	2.175	16.9	21.0
12 7	6 54.78	+15 6.7	1.840	2.742	10.1	18.1	12 7	6 59.41	+26 54.7	1.250	2.167	12.5	20.7
12 17	6 46.94	+15 26.2	1.793	2.746	6.3	17.8	12 17	6 50.16	+27 21.0	1.198	2.160	7.4	20.4
12 27	6 37.73	+15 53.5	1.774	2.751	2.9	17.6	12 27	6 38.52	+27 41.9	1.171	2.152	2.5	20.1
1 6	6 28.22	+16 26.7	1.784	2.755	3.9	17.7	1 6	6 26.20	+27 53.4	1.171	2.145	4.9	20.2
1 16	6 19.50	+17 3.6	1.823	2.760	7.7	18.0	1 16	6 15.09	+27 54.0	1.197	2.138	10.3	20.5
1 26	6 12.56	+17 42.2	1.888	2.764	11.3	18.2	1 26	6 6.85	+27 45.9	1.246	2.131	15.2	20.8
2 5	6 8.06	+18 20.7	1.977	2.768	14.4	18.4	2 5	6 2.42	+27 32.4	1.315	2.124	19.4	21.0
63420	2001 KB ₆₅		12 29.6 68°65	1°0/29.9	18		109434	2001 QV ₁₉₆		12 29.6 274°12	5°0/29.3	18	
11 27	7 10.16	+14 33.8	1.359	2.188	17.8	18.1	11 27	7 6.65	+36 38.8	1.934	2.757	13.5	19.3
12 7	7 2.32	+16 17.6	1.316	2.221	13.0	17.9	12 7	6 59.81	+36 58.1	1.846	2.741	10.5	19.1
12 17	6 51.42	+18 15.8	1.296	2.254	7.6	17.7	12 17	6 50.09	+37 7.4	1.782	2.726	7.3	18.9
12 27	6 38.67	+20 19.8	1.304	2.286	2.0	17.4	12 27	6 38.47	+37 1.4	1.745	2.710	5.1	18.7
1 6	6 25.74	+22 19.8	1.343	2.318	4.1	17.6	1 6	6 26.35	+36 37.2	1.737	2.694	6.0	18.7
1 16	6 14.28	+24 8.1	1.411	2.350	9.2	18.0	1 16	6 15.24	+35 55.7	1.757	2.678	9.2	18.9
1 26	6 5.63	+25 41.1	1.505	2.381	13.6	18.4	1 26	6 6.47	+35 1.0	1.803	2.662	12.6	19.1
2 5	6 0.47	+26 58.5	1.621	2.412	17.1	18.7	2 5	6 0.85	+33 58.9	1.872	2.646	15.8	19.2
404942	2014 MJ ₂₀		12 29.6 273°93	3°9/29.7	17		447528	2006 SS ₁₅₉		12 29.6 45°36	3°0/30.1	17	
11 27	7 1.40	+14 51.3	1.896	2.721	13.7	20.5	11 27	7 0.86	+15 36.5	1.574	2.412	15.4	20.9
12 7	6 55.51	+14 1.5	1.814	2.714	10.4	20.3	12 7	6 55.29	+15 25.8	1.519	2.427	11.4	20.7
12 17	6 47.38	+13 17.1	1.757	2.706	6.8	20.1	12 17	6 47.29	+15 24.0	1.486	2.441	7.1	20.5
12 27	6 37.83	+12 39.9	1.727	2.699	4.1	19.9	12 27	6 37.84	+15 30.8	1.480	2.457	3.4	20.3
1 6	6 27.94	+12 11.5	1.727	2.691	5.1	20.0	1 6	6 28.21	+15 44.8	1.501	2.472	4.6	20.4
1 16	6 18.84	+11 52.6	1.755	2.684	8.5	20.2	1 16	6 19.68	+16 4.6	1.549	2.488	8.6	20.7
1 26	6 11.54	+11 43.4	1.808	2.676	12.1	20.4	1 26	6 13.30	+16 28.4	1.623	2.504	12.5	21.0
2 5	6 6.72	+11 42.6	1.885	2.669	15.3	20.6	2 5	6 9.68	+16 54.4	1.718	2.521	15.8	21.2
489150	2006 DU ₁₇₇		12 29.6 82°58	4°8/29.0	18		82849	2001 QN ₅₂		12 29.6 131°74	0°3/29.7	18	
11 27	7 3.64												

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
1725 CrAO			12 29.6	99°23	0°6/29.8	18	494996 2010 HD76			12 29.7	257°39	10°2/31.6	18
11 27	7 0.70	+20 40.6	2.111	2.941	12.3	15.9	11 27	6 56.39	-12 0.4	2.674	3.370	13.4	21.5
12 7	6 54.81	+20 52.8	2.043	2.950	9.0	15.7	12 7	6 51.42	-12 54.2	2.595	3.360	12.1	21.3
12 17	6 46.90	+21 8.3	2.000	2.959	5.2	15.5	12 17	6 44.89	-13 28.1	2.537	3.349	10.9	21.2
12 27	6 37.77	+21 25.2	1.985	2.967	1.3	15.2	12 27	6 37.38	-13 38.4	2.501	3.338	10.2	21.2
1 6	6 28.40	+21 42.0	2.001	2.976	3.0	15.4	1 6	6 29.58	-13 23.4	2.490	3.328	10.3	21.1
1 16	6 19.83	+21 57.5	2.046	2.984	6.9	15.6	1 16	6 22.23	-12 43.7	2.503	3.317	11.0	21.2
1 26	6 12.95	+22 11.3	2.118	2.992	10.3	15.9	1 26	6 16.05	-11 42.4	2.540	3.305	12.3	21.3
2 5	6 8.37	+22 23.5	2.213	3.000	13.2	16.1	2 5	6 11.56	-10 24.5	2.598	3.294	13.7	21.3
520757 2014 RN68			12 29.6	96°57	5°6/30.7	18	102415 1999 TH183			12 29.7	355°41	0°6/29.6	18
11 27	6 57.89	+5 33.8	2.351	3.144	12.4	21.9	11 27	7 2.32	+23 14.2	1.593	2.438	14.9	19.7
12 7	6 52.49	+5 3.3	2.284	3.154	9.9	21.7	12 7	6 56.71	+23 39.6	1.522	2.437	10.9	19.4
12 17	6 45.46	+4 45.2	2.242	3.164	7.4	21.6	12 17	6 48.33	+24 8.0	1.474	2.436	6.3	19.2
12 27	6 37.45	+4 41.0	2.227	3.174	5.8	21.5	12 27	6 38.15	+24 35.9	1.453	2.435	1.4	18.8
1 6	6 29.28	+4 51.0	2.241	3.183	6.1	21.5	1 6	6 27.51	+24 59.8	1.460	2.435	3.8	19.0
1 16	6 21.75	+5 13.9	2.284	3.193	8.0	21.7	1 16	6 17.87	+25 18.1	1.494	2.435	8.6	19.3
1 26	6 15.61	+5 47.6	2.353	3.202	10.4	21.8	1 26	6 10.50	+25 30.9	1.554	2.435	12.9	19.5
2 5	6 11.35	+6 28.8	2.445	3.211	12.7	22.0	2 5	6 6.19	+25 39.2	1.634	2.436	16.6	19.8
228941 2003 TU16			12 29.7	63°89	2°3/29.9	18	396852 2004 RO339			12 29.7	106°37	9°9/29.1	17
11 27	7 0.19	+17 24.1	2.070	2.898	12.6	20.3	11 27	7 11.33	+9 3.7	1.108	1.937	21.0	20.3
12 7	6 54.33	+16 56.4	2.008	2.911	9.3	20.2	12 7	7 3.50	+6 47.9	1.059	1.951	16.7	20.1
12 17	6 46.56	+16 33.4	1.970	2.924	5.7	20.0	12 17	6 52.22	+4 46.6	1.030	1.964	12.5	19.9
12 27	6 37.69	+16 15.2	1.960	2.938	2.6	19.8	12 27	6 38.94	+3 9.5	1.026	1.977	10.0	19.8
1 6	6 28.69	+16 1.9	1.980	2.951	3.7	19.9	1 6	6 25.56	+2 3.6	1.047	1.990	11.1	19.9
1 16	6 20.54	+15 53.7	2.029	2.964	7.2	20.1	1 16	6 13.93	+1 30.8	1.092	2.002	14.5	20.1
1 26	6 14.09	+15 50.3	2.106	2.978	10.5	20.4	1 26	6 5.48	+1 27.9	1.158	2.014	18.4	20.4
2 5	6 9.87	+15 51.1	2.205	2.991	13.3	20.6	2 5	6 0.88	+1 47.7	1.242	2.025	21.8	20.7
477255 2009 SX58			12 29.7	292°72	4°6/29.3	18	41254 1999 X743			12 29.7	138°30	1°7/29.8	18
11 27	7 6.88	+32 42.9	1.437	2.280	16.3	21.5	11 27	7 0.54	+18 34.6	2.345	3.169	11.5	19.6
12 7	7 0.58	+33 14.7	1.365	2.274	12.3	21.2	12 7	6 54.48	+18 12.5	2.272	3.174	8.5	19.4
12 17	6 50.78	+33 39.2	1.314	2.268	8.0	20.9	12 17	6 46.64	+17 53.5	2.225	3.180	5.1	19.2
12 27	6 38.66	+33 49.9	1.289	2.262	4.8	20.7	12 27	6 37.75	+17 37.5	2.207	3.186	2.0	19.0
1 6	6 25.95	+33 42.6	1.291	2.256	6.2	20.8	1 6	6 28.67	+17 24.6	2.219	3.191	3.2	19.1
1 16	6 14.56	+33 17.5	1.319	2.251	10.5	21.0	1 16	6 20.31	+17 14.7	2.261	3.196	6.5	19.3
1 26	6 6.11	+32 39.2	1.371	2.245	14.8	21.3	1 26	6 13.48	+17 8.1	2.332	3.201	9.7	19.5
2 5	6 1.45	+31 53.8	1.443	2.240	18.6	21.5	2 5	6 8.70	+17 4.5	2.426	3.205	12.4	19.7
344078 1998 QB29			12 29.7	108°51	4°5/30.3	18	392500 2011 OS27			12 29.7	201°73	2°8/29.3	18
11 27	7 5.38	+12 1.8	1.699	2.517	15.3	21.4	11 27	7 6.67	+30 35.2	2.045	2.870	12.8	21.6
12 7	6 58.32	+11 36.8	1.644	2.538	11.7	21.2	12 7	6 59.51	+30 59.0	1.964	2.866	9.6	21.4
12 17	6 48.93	+11 22.7	1.613	2.558	7.7	21.0	12 17	6 49.80	+31 18.4	1.908	2.862	6.0	21.2
12 27	6 38.19	+11 20.3	1.609	2.578	4.7	20.9	12 27	6 38.45	+31 29.0	1.881	2.857	3.0	21.0
1 6	6 27.35	+11 29.0	1.633	2.597	5.5	21.0	1 6	6 26.70	+31 28.4	1.884	2.851	4.4	21.0
1 16	6 17.63	+11 47.5	1.686	2.615	8.9	21.2	1 16	6 15.84	+31 16.3	1.916	2.845	8.0	21.2
1 26	6 10.04	+12 13.5	1.765	2.633	12.4	21.5	1 26	6 7.05	+30 55.0	1.975	2.837	11.5	21.4
2 5	6 5.17	+12 44.5	1.867	2.650	15.5	21.7	2 5	6 1.06	+30 28.1	2.057	2.830	14.6	21.6
22514 1998 DN5			12 29.7	309°08	2°9/29.7	18	401961 2002 RO278			12 29.7	41°19	7°8/29.0	17
11 27	7 1.55	+18 16.4	1.467	2.312	15.9	17.9	11 27	7 6.63	+44 14.4	1.954	2.761	14.0	20.3
12 7	6 56.38	+17 39.8	1.381	2.294	12.0	17.6	12 7	6 59.76	+45 5.3	1.904	2.776	11.4	20.1
12 17	6 48.27	+17 7.2	1.317	2.276	7.4	17.3	12 17	6 49.97	+45 40.6	1.876	2.791	9.1	20.0
12 27	6 38.13	+16 39.5	1.280	2.258	3.3	17.0	12 27	6 38.46	+45 54.0	1.874	2.807	7.8	20.0
1 6	6 27.36	+16 17.6	1.269	2.241	5.0	17.1	1 6	6 26.79	+45 42.7	1.899	2.823	8.3	20.0
1 16	6 17.47	+16 2.3	1.284	2.224	9.8	17.3	1 16	6 16.51	+45 8.2	1.950	2.839	10.3	20.2
1 26	6 9.90	+15 54.2	1.324	2.208	14.5	17.5	1 26	6 8.86	+44 15.7	2.026	2.856	12.6	20.4
2 5	6 5.51	+15 52.8	1.383	2.192	18.6	17.8	2 5	6 4.46	+43 12.0	2.123	2.872	14.9	20.6
144854 2004 KA10			12 29.7	250°20	2°5/29.6	18	177227 2003 UV232			12 29.7	358°04	1°6/29.8	18
11 27	7 2.68	+18 11.0	2.092	2.916	12.6	19.8	11 27	7 4.15	+19 50.8	1.314	2.163	17.1	20.4
12 7	6 56.32	+17 23.2	2.004	2.906	9.4	19.6	12 7	6 58.38	+19 40.7	1.246	2.162	12.7	20.1
12 17	6 47.83	+16 37.2	1.942	2.896	5.9	19.3	12 17	6 49.42	+19 36.0	1.201	2.162	7.5	19.8
12 27	6 38.00	+15 54.2	1.909	2.886	2.8	19.1	12 27	6 38.39	+19 35.4	1.180	2.162	2.3	19.5
1 6	6 27.85	+15 15.5	1.906	2.875	4.0	19.2	1 6	6 26.90	+19 37.3	1.186	2.162	4.5	19.6
1 16	6 18.44	+14 42.5	1.933	2.865	7.7	19.4	1 16	6 16.65	+19 41.1	1.219	2.162	9.9	19.9
1 26	6 10.75	+14 16.2	1.987	2.854	11.2	19.6	1 26	6 9.09	+19 46.7	1.275	2.162	14.7	20.2
2 5	6 5.41	+13 56.8	2.064	2.843	14.3	19.8	2 5	6 5.02	+19 54.1	1.350	2.163	18.8	20.5
490946 2011 CP96			12 29.7	198°38	0°0/29.5	18	439097 2011 SF12			12 29.7	38°65	9°1/30.7	17
11 27	7 5.86	+23 18.9	1.684	2.519	14.6	22.2	11 27	7 1.76	+5 29.6	1.264	2.090	19.1	19.7
12 7	6 59.13	+23 17.5	1.608	2.518	10.8	21.9	12 7	6 56.05	+4 8.5	1.230	2.116	15.3	19.5
12 17	6 49.66	+23 17.0	1.555	2.515	6.3	21.6	12 17	6 47.72	+3 9.0	1.216	2.144	11.7	19.4
12 27	6 38.41	+23 14.9	1.530	2.513	1.3	21.3	12 27	6 37.97	+2 35.9	1.226	2.172	9.3	19.3
1 6	6 26.75	+23 9.9	1.534	2.509	3.7	21.5	1 6	6 28.29	+2 30.4	1.259	2.202	9.7	19.4
1 16	6 16.12	+23 1.7	1.567	2.506	8.5	21.8	1 16	6 20.03	+2 49.9	1.318	2.231	12.2	19.7
1 26	6 7.76	+22 51.6	1.625	2.502	12.8	22.0	1 26	6 14.25	+3 29.0	1.398	2.262	15.3	19.9
2 5	6 2.44	+22 41.3	1.706	2.497	16.4	22.2	2 5	6 11.47	+4 20.8	1.498	2.292	18.1	20.2
464541 2016 CF27			12 29.7	29°39	4°5/29.2	16	520661 2014 QK381			12 29.7	170°57	5°0/30.6	18
11 27	7 2.97	+34 46.8	1.862	2.695	13.6	21.1	11 27	6 59.23	+6 6.3	2.608	3.396	11.5	22.1
12 7	6 56.94	+											

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
217578	2008 AC ₁₂₈	12 29.7 183°83	1°0/29.6 18				201318	2002 TA ₁₁₇	12 29.7 85°47	0°9/29.8 18			
11 27	7 7.87	+26 6.6	1.632	2.467	15.0	20.9	11 27	6 59.80	+20 52.9	2.332	3.160	11.4	19.6
12 7	7 0.68	+26 4.0	1.558	2.468	11.1	20.6	12 7	6 53.99	+20 37.1	2.261	3.167	8.3	19.5
12 17	6 50.58	+25 59.0	1.508	2.468	6.5	20.3	12 17	6 46.39	+20 23.1	2.217	3.175	4.9	19.3
12 27	6 38.64	+25 48.9	1.486	2.468	1.7	20.0	12 27	6 37.74	+20 10.3	2.201	3.182	1.4	19.0
1 6	6 26.33	+25 32.0	1.492	2.467	3.9	20.2	1 6	6 28.92	+19 58.4	2.215	3.190	2.9	19.1
1 16	6 15.19	+25 9.2	1.527	2.465	8.7	20.5	1 16	6 20.85	+19 47.5	2.260	3.197	6.4	19.4
1 26	6 6.52	+24 43.0	1.588	2.463	13.1	20.7	1 26	6 14.30	+19 38.1	2.332	3.205	9.6	19.6
2 5	6 1.08	+24 16.3	1.670	2.461	16.7	21.0	2 5	6 9.82	+19 30.4	2.428	3.212	12.3	19.8
242038	2002 RZ ₃₈	12 29.7 170°81	0°6/29.6 18				504958	2011 FN ₈₇	12 29.7 320°52	21°7/29.4 17			
11 27	7 3.97	+25 3.7	2.497	3.317	10.9	22.1	11 27	7 2.23	-12 43.6	1.057	1.823	25.9	20.7
12 7	6 56.98	+25 10.3	2.419	3.322	8.0	21.9	12 7	6 57.44	-15 39.1	1.008	1.817	24.0	20.5
12 17	6 48.11	+25 16.0	2.368	3.326	4.6	21.7	12 17	6 49.13	-17 56.0	0.975	1.812	22.4	20.4
12 27	6 38.09	+25 18.9	2.347	3.329	1.1	21.4	12 27	6 38.41	-19 18.7	0.958	1.807	21.7	20.3
1 6	6 27.84	+25 17.7	2.358	3.332	2.8	21.6	1 6	6 27.01	-19 38.4	0.957	1.803	22.0	20.3
1 16	6 18.32	+25 12.3	2.400	3.334	6.3	21.8	1 16	6 16.80	-18 55.1	0.971	1.799	23.2	20.4
1 26	6 10.37	+25 3.6	2.470	3.335	9.4	22.0	1 26	6 9.48	-17 18.0	1.001	1.795	25.0	20.5
2 5	6 4.57	+24 52.9	2.565	3.335	12.1	22.2	2 5	6 6.01	-15 2.2	1.043	1.792	27.1	20.7
450066	2015 RQ ₄₆	12 29.7 147°72	1°5/29.9 18				51288	2000 KH ₂₀	12 29.7 302°81	0°0/29.5 18			
11 27	7 2.81	+19 2.9	1.914	2.744	13.4	21.9	11 27	6 59.13	+22 51.6	2.179	3.013	11.8	19.3
12 7	6 56.52	+18 55.8	1.843	2.749	9.9	21.7	12 7	6 53.84	+22 57.0	2.091	3.000	8.7	19.1
12 17	6 47.99	+18 52.8	1.796	2.753	5.9	21.4	12 17	6 46.49	+23 3.8	2.028	2.988	5.0	18.8
12 27	6 38.08	+18 53.2	1.777	2.758	2.0	21.2	12 27	6 37.79	+23 10.4	1.993	2.975	1.1	18.5
1 6	6 27.89	+18 55.9	1.788	2.762	3.5	21.3	1 6	6 28.71	+23 15.4	1.988	2.963	3.0	18.7
1 16	6 18.58	+19 0.3	1.828	2.766	7.6	21.6	1 16	6 20.25	+23 18.2	2.012	2.951	6.9	18.9
1 26	6 11.17	+19 6.2	1.895	2.769	11.3	21.8	1 26	6 13.40	+23 19.0	2.064	2.939	10.5	19.1
2 5	6 6.28	+19 13.5	1.984	2.772	14.5	22.0	2 5	6 8.80	+23 18.3	2.138	2.928	13.6	19.3
383174	2005 VR ₁₂₄	12 29.7 359°01	4°7/30.2 18				2996	Bowman	12 29.7 182°08	1°6/29.5 18 R			
11 27	6 58.73	+13 51.9	1.145	2.002	18.6	20.2	11 27	7 2.68	+27 16.9	2.037	2.870	12.6	16.6
12 7	6 54.67	+13 30.9	1.082	1.998	14.2	19.9	12 7	6 56.50	+27 30.7	1.962	2.870	9.2	16.4
12 17	6 47.39	+13 23.7	1.039	1.996	9.2	19.6	12 17	6 48.03	+27 42.6	1.911	2.870	5.5	16.1
12 27	6 38.00	+13 31.5	1.020	1.995	5.1	19.4	12 27	6 38.13	+27 49.5	1.889	2.870	1.9	15.9
1 6	6 28.10	+13 53.4	1.024	1.995	6.2	19.4	1 6	6 27.91	+27 49.6	1.897	2.870	3.6	16.0
1 16	6 19.41	+14 26.7	1.053	1.996	11.0	19.7	1 16	6 18.55	+27 42.7	1.934	2.869	7.4	16.3
1 26	6 13.41	+15 7.9	1.103	1.999	15.8	20.0	1 26	6 11.09	+27 30.1	1.998	2.869	11.0	16.5
2 5	6 10.95	+15 53.1	1.173	2.003	20.0	20.3	2 5	6 6.18	+27 14.1	2.084	2.868	14.0	16.7
74868	1999 TC ₉₃	12 29.7 55°82	2°4/29.2 18				189937	2003 SK ₂₇₀	12 29.7 59°74	5°3/30.9 18			
11 27	7 6.22	+25 2.1	1.216	2.070	17.9	18.5	11 27	6 58.73	+7 19.8	2.037	2.843	13.6	19.6
12 7	7 0.07	+26 3.6	1.167	2.086	13.1	18.3	12 7	6 53.29	+7 5.6	1.980	2.861	10.6	19.4
12 17	6 50.43	+27 7.4	1.141	2.103	7.7	18.0	12 17	6 46.02	+7 4.8	1.947	2.879	7.6	19.3
12 27	6 38.62	+28 5.9	1.139	2.120	2.7	17.8	12 27	6 37.68	+7 18.4	1.941	2.897	5.5	19.2
1 6	6 26.50	+28 52.7	1.164	2.137	5.1	18.0	1 6	6 29.20	+7 45.5	1.963	2.916	5.8	19.2
1 16	6 15.94	+29 25.0	1.215	2.154	10.3	18.3	1 16	6 21.52	+8 23.9	2.013	2.934	8.1	19.4
1 26	6 8.48	+29 44.1	1.289	2.172	14.9	18.7	1 26	6 15.45	+9 10.5	2.090	2.953	10.9	19.6
2 5	6 4.84	+29 53.2	1.382	2.190	18.7	19.0	2 5	6 11.51	+10 2.0	2.190	2.971	13.5	19.8
303195	2004 GB ₁₅	12 29.7 319°36	0°0/29.5 18				281179	2007 EB ₇₉	12 29.7 282°25	2°4/29.5 18			
11 27	7 2.04	+25 10.2	1.456	2.307	15.7	19.3	11 27	7 5.73	+28 48.7	1.525	2.367	15.5	20.3
12 7	6 57.04	+24 37.7	1.358	2.276	11.7	19.0	12 7	6 59.46	+28 58.2	1.449	2.361	11.5	20.1
12 17	6 48.85	+24 0.8	1.283	2.245	6.9	18.6	12 17	6 50.06	+29 3.5	1.396	2.355	7.0	19.8
12 27	6 38.35	+23 18.4	1.232	2.215	1.5	18.2	12 27	6 38.60	+29 0.5	1.370	2.350	2.8	19.5
1 6	6 27.01	+22 30.5	1.209	2.185	4.2	18.3	1 6	6 26.65	+28 46.6	1.371	2.344	4.7	19.6
1 16	6 16.52	+21 39.6	1.212	2.156	9.8	18.5	1 16	6 15.87	+28 22.3	1.400	2.338	9.4	19.9
1 26	6 8.47	+20 49.3	1.240	2.128	15.0	18.7	1 26	6 7.69	+27 51.0	1.453	2.332	13.8	20.1
2 5	6 3.88	+20 3.1	1.287	2.101	19.5	18.9	2 5	6 2.95	+27 16.6	1.527	2.326	17.6	20.4
134130	Apáczai	12 29.7 241°98	1°7/29.5 18				72621	2001 FJ ₂₅	12 29.7 65°33	5°4/29.5 18			
11 27	7 2.25	+29 40.2	2.733	3.553	10.1	20.6	11 27	7 9.14	+36 34.8	1.591	2.421	15.6	18.2
12 7	6 55.76	+29 37.6	2.638	3.539	7.5	20.4	12 7	7 1.62	+37 0.7	1.543	2.442	11.9	18.0
12 17	6 47.44	+29 30.7	2.569	3.524	4.5	20.2	12 17	6 51.04	+37 14.6	1.518	2.463	8.1	17.8
12 27	6 37.97	+29 17.7	2.530	3.509	1.9	20.0	12 27	6 38.75	+37 10.6	1.519	2.484	5.6	17.7
1 6	6 28.19	+28 57.7	2.523	3.493	3.1	20.0	1 6	6 26.44	+36 46.9	1.547	2.505	6.5	17.8
1 16	6 19.03	+28 31.1	2.546	3.477	6.1	20.2	1 16	6 15.77	+36 5.9	1.603	2.526	9.7	18.1
1 26	6 11.31	+27 59.5	2.598	3.460	9.1	20.4	1 26	6 7.98	+35 13.0	1.684	2.547	13.1	18.3
2 5	6 5.61	+27 25.3	2.675	3.444	11.7	20.5	2 5	6 3.64	+34 14.7	1.786	2.568	16.1	18.6
189673	2001 RK ₁₅₅	12 29.7 113°51	0°6/29.8 18				444612	2006 UN ₃₃₆	12 29.7 64°68	3°0/29.1 18			
11 27	7 5.06	+19 21.6	1.678	2.511	14.8	20.4	11 27	7 4.06	+28 24.3	1.741	2.580	14.1	20.6
12 7	6 58.42	+19 55.2	1.616	2.524	10.8	20.2	12 7	6 57.80	+29 21.4	1.684	2.594	10.4	20.4
12 17	6 49.19	+20 35.3	1.578	2.537	6.3	20.0	12 17	6 48.89	+30 16.7	1.652	2.609	6.3	20.2
12 27	6 38.35	+21 18.4	1.567	2.549	1.5	19.7	12 27	6 38.32	+31 4.5	1.647	2.623	3.1	20.0
1 6	6 27.20	+22 0.8	1.586	2.561	3.6	19.9	1 6	6 27.45	+31 40.5	1.670	2.638	4.7	20.1
1 16	6 17.10	+22 39.9	1.633	2.573	8.2	20.2	1 16	6 17.67	+32 3.1	1.722	2.653	8.5	20.4
1 26	6 9.21	+23 14.4	1.707	2.584	12.3	20.5	1 26	6 10.16	+32 13.6	1.799	2.668	12.2	20.6
2 5	6 4.22	+23 44.3	1.803	2.595	15.6	20.7	2 5	6 5.61	+32 14.9	1.899	2.683	15.2	20.9
389613	2011 HR ₄₂	12 29.7 8°13	2°7/30.2 18				324797	2007 HG ₂₀	12 29.7 184°34	3°8/30.1 17			
11 27	7 2.01	+15 19.0	1.355	2.199	17.0	20.5	11 27	6 58.99	+12 1.2	2.277			

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
133517	2003 <i>SM</i> ₃₀₄		12 29.7 113°72	4°0/30.5	18		460610	2014 <i>UC</i> ₆₆		12 29.7 214°28	2°9/29.9	18	
11 27	6 58.54	+ 9 55.8	2.422	3.228	11.7	19.9	11 27	6 59.24	+14 36.2	2.543	3.357	10.9	21.2
12 7	6 52.98	+ 9 42.7	2.354	3.238	9.0	19.7	12 7	6 53.52	+14 4.3	2.459	3.353	8.3	21.1
12 17	6 45.80	+ 9 39.2	2.310	3.248	6.2	19.6	12 17	6 46.15	+13 37.2	2.401	3.349	5.4	20.9
12 27	6 37.65	+ 9 45.7	2.295	3.258	4.2	19.4	12 27	6 37.76	+13 16.0	2.373	3.344	3.1	20.7
1 6	6 29.32	+10 1.9	2.310	3.268	4.6	19.5	1 6	6 29.13	+13 0.9	2.375	3.339	3.9	20.8
1 16	6 21.63	+10 26.5	2.354	3.278	7.0	19.7	1 16	6 21.08	+12 52.2	2.406	3.334	6.6	20.9
1 26	6 15.30	+10 57.5	2.426	3.287	9.7	19.8	1 26	6 14.35	+12 49.6	2.466	3.329	9.5	21.1
2 5	6 10.85	+11 32.9	2.522	3.297	12.1	20.0	2 5	6 9.48	+12 52.3	2.550	3.323	12.1	21.3
281193	2007 <i>EK</i> ₂₁₃		12 29.7 199°46	0°6/29.6	18		16149	1999 <i>XS</i> ₂₁₅		12 29.7 106°44	4°2/30.5	18	
11 27	7 5.28	+24 10.2	1.941	2.771	13.2	22.1	11 27	6 58.41	+10 15.9	2.266	3.076	12.2	18.2
12 7	6 58.52	+24 25.1	1.861	2.768	9.7	21.9	12 7	6 53.04	+ 9 59.6	2.193	3.080	9.5	18.1
12 17	6 49.28	+24 40.7	1.805	2.764	5.7	21.6	12 17	6 45.91	+ 9 53.3	2.145	3.084	6.5	17.9
12 27	6 38.44	+24 54.1	1.778	2.760	1.3	21.3	12 27	6 37.71	+ 9 57.5	2.125	3.088	4.4	17.8
1 6	6 27.17	+25 3.1	1.781	2.755	3.4	21.5	1 6	6 29.28	+10 11.9	2.133	3.093	4.8	17.8
1 16	6 16.75	+25 7.0	1.813	2.750	7.7	21.7	1 16	6 21.49	+10 35.4	2.171	3.097	7.4	18.0
1 26	6 8.32	+25 6.3	1.873	2.744	11.6	22.0	1 26	6 15.14	+11 6.1	2.237	3.101	10.3	18.2
2 5	6 2.61	+25 2.9	1.955	2.737	14.9	22.2	2 5	6 10.78	+11 41.5	2.325	3.105	12.9	18.4
67364	2000 <i>KQ</i> ₇₁		12 29.7 276°42	4°5/30.8	18		493996	2016 <i>AF</i> ₁₀₆		12 29.7 132°80	1°6/30.1	17	
11 27	6 57.40	+ 7 47.5	2.372	3.174	12.0	19.6	11 27	6 58.83	+16 16.3	2.539	3.357	10.8	21.1
12 7	6 52.31	+ 7 44.8	2.289	3.169	9.4	19.4	12 7	6 53.24	+16 34.2	2.465	3.364	8.0	21.0
12 17	6 45.51	+ 7 54.0	2.231	3.164	6.7	19.2	12 17	6 46.00	+16 58.1	2.417	3.370	4.9	20.8
12 27	6 37.61	+ 8 15.7	2.200	3.159	4.8	19.1	12 27	6 37.73	+17 26.7	2.398	3.377	2.0	20.6
1 6	6 29.41	+ 8 49.0	2.198	3.153	5.1	19.1	1 6	6 29.24	+17 58.5	2.410	3.383	2.9	20.7
1 16	6 21.73	+ 9 32.3	2.226	3.148	7.4	19.3	1 16	6 21.33	+18 31.7	2.453	3.388	6.0	20.9
1 26	6 15.38	+10 22.9	2.281	3.143	10.2	19.4	1 26	6 14.75	+19 5.1	2.524	3.394	9.0	21.1
2 5	6 10.92	+11 17.9	2.359	3.138	12.8	19.6	2 5	6 10.03	+19 37.7	2.619	3.400	11.6	21.3
415323	2013 <i>HG</i> ₁₇		12 29.7 193°21	4°4/28.6	14 C		461493	2002 <i>VH</i> ₁₄₀		12 29.7 58°01	0°3/29.8	17	
11 27	7 5.14	+38 11.4	2.971	3.773	9.9	22.9	11 27	6 59.05	+21 7.9	2.266	3.097	11.5	21.0
12 7	6 57.96	+38 58.7	2.890	3.770	7.7	22.7	12 7	6 53.60	+21 25.1	2.195	3.103	8.4	20.8
12 17	6 48.78	+39 38.8	2.836	3.767	5.6	22.6	12 17	6 46.28	+21 45.3	2.149	3.109	4.9	20.6
12 27	6 38.32	+40 7.6	2.811	3.763	4.4	22.5	12 27	6 37.80	+22 6.8	2.132	3.114	1.1	20.4
1 6	6 27.49	+40 22.4	2.818	3.758	5.1	22.5	1 6	6 29.08	+22 27.6	2.145	3.120	2.8	20.5
1 16	6 17.29	+40 22.6	2.854	3.752	7.0	22.7	1 16	6 21.05	+22 46.6	2.188	3.126	6.5	20.8
1 26	6 8.62	+40 10.1	2.918	3.746	9.2	22.8	1 26	6 14.55	+23 3.2	2.258	3.132	9.8	21.0
2 5	6 2.11	+39 47.9	3.007	3.740	11.3	23.0	2 5	6 10.17	+23 17.6	2.352	3.139	12.6	21.2
488127	2015 <i>VP</i> ₁₁₆		12 29.7 26°23	0°5/29.5	18		293562	2007 <i>HD</i> ₅₁		12 29.7 233°89	1°6/29.9	18	
11 27	7 2.23	+21 14.2	1.771	2.608	14.0	20.5	11 27	6 59.43	+17 33.4	2.387	3.210	11.3	21.7
12 7	6 56.49	+22 12.2	1.699	2.610	10.2	20.3	12 7	6 53.85	+17 34.7	2.301	3.203	8.4	21.5
12 17	6 48.21	+23 16.6	1.651	2.612	5.9	20.0	12 17	6 46.44	+17 40.9	2.240	3.195	5.1	21.3
12 27	6 38.22	+24 22.7	1.631	2.614	1.3	19.7	12 27	6 37.85	+17 51.2	2.209	3.188	2.0	21.1
1 6	6 27.75	+25 25.6	1.641	2.616	3.6	19.9	1 6	6 28.94	+18 4.6	2.207	3.180	3.1	21.1
1 16	6 18.10	+26 21.5	1.679	2.618	8.1	20.2	1 16	6 20.59	+18 20.2	2.236	3.172	6.5	21.3
1 26	6 10.47	+27 8.7	1.744	2.620	12.1	20.4	1 26	6 13.66	+18 37.1	2.292	3.164	9.8	21.5
2 5	6 5.64	+27 47.5	1.831	2.623	15.4	20.7	2 5	6 8.74	+18 54.8	2.373	3.155	12.6	21.7
69280	1990 <i>RB</i> ₇		12 29.7 73°45	2°5/30.1	18		203211	2001 <i>DP</i> ₁₁₀		12 29.7 356°03	3°1/31.0	18	
11 27	7 2.86	+15 59.4	1.657	2.489	15.0	18.7	11 27	7 5.06	+ 8 59.3	1.538	2.355	16.7	19.8
12 7	6 56.69	+16 2.2	1.602	2.507	11.1	18.5	12 7	6 58.90	+10 33.3	1.459	2.353	12.8	19.5
12 17	6 48.14	+16 13.4	1.570	2.525	6.8	18.3	12 17	6 49.81	+12 31.6	1.403	2.352	8.2	19.3
12 27	6 38.17	+16 32.0	1.565	2.543	2.9	18.1	12 27	6 38.65	+14 49.6	1.375	2.351	3.8	19.0
1 6	6 28.04	+16 56.0	1.589	2.561	4.1	18.2	1 6	6 26.74	+17 18.4	1.378	2.351	4.6	19.0
1 16	6 18.99	+17 23.3	1.641	2.579	8.2	18.5	1 16	6 15.60	+19 47.5	1.411	2.351	9.2	19.3
1 26	6 12.07	+17 52.3	1.719	2.597	12.1	18.8	1 26	6 6.67	+22 8.3	1.472	2.351	13.7	19.6
2 5	6 7.87	+18 21.6	1.819	2.615	15.3	19.0	2 5	6 0.88	+24 15.3	1.557	2.352	17.5	19.8
339948	2005 <i>UO</i> ₁₂₅		12 29.7 220°05	1°5/29.8	18		133799	2003 <i>WV</i> ₁₃₈		12 29.7 198°70	3°5/29.7	18	
11 27	7 4.54	+19 25.7	1.851	2.680	13.8	21.3	11 27	7 0.44	+13 7.0	2.752	3.557	10.5	19.6
12 7	6 58.03	+19 14.9	1.767	2.672	10.2	21.0	12 7	6 54.24	+12 13.8	2.668	3.555	8.0	19.4
12 17	6 49.03	+19 7.8	1.707	2.664	6.1	20.8	12 17	6 46.52	+11 25.2	2.611	3.552	5.4	19.3
12 27	6 38.40	+19 3.5	1.675	2.656	2.0	20.5	12 27	6 37.87	+10 42.6	2.584	3.548	3.6	19.2
1 6	6 27.32	+19 1.1	1.673	2.647	3.7	20.6	1 6	6 29.03	+10 7.3	2.588	3.545	4.2	19.2
1 16	6 17.05	+19 0.4	1.700	2.637	8.1	20.8	1 16	6 20.75	+ 9 40.3	2.622	3.541	6.6	19.3
1 26	6 8.76	+19 1.4	1.753	2.627	12.1	21.0	1 26	6 13.72	+ 9 21.6	2.686	3.537	9.2	19.5
2 5	6 3.18	+19 4.3	1.829	2.616	15.6	21.3	2 5	6 8.44	+ 9 10.5	2.774	3.533	11.5	19.7
27858	1995 <i>BZ</i> ₁		12 29.7 33°60	0°8/29.6	18		274708	2008 <i>UG</i> ₁₀₁		12 29.7 33°88	1°7/29.5	18	
11 27	7 2.85	+22 24.1	1.177	2.037	18.0	18.1	11 27	7 0.60	+27 36.8	2.132	2.967	12.0	20.9
12 7	6 57.62	+23 5.2	1.128	2.050	13.1	17.9	12 7	6 54.90	+27 52.3	2.062	2.970	8.8	20.7
12 17	6 49.05	+23 51.6	1.099	2.063	7.6	17.6	12 17	6 47.10	+28 5.7	2.016	2.975	5.2	20.5
12 27	6 38.40	+24 37.8	1.095	2.078	1.7	17.3	12 27	6 38.01	+28 14.4	1.999	2.979	1.9	20.3
1 6	6 27.44	+25 18.6	1.117	2.093	4.5	17.5	1 6	6 28.66	+28 16.4	2.011	2.983	3.4	20.4
1 16	6 17.97	+25 50.9	1.164	2.109	10.0	17.9	1 16	6 20.13	+28 11.6	2.052	2.988	7.0	20.7
1 26	6 11.44	+26 14.6	1.234	2.126	14.8	18.2	1 26	6 13.37	+28 1.2	2.121	2.993	10.4	20.9
2 5	6 8.58	+26 31.2	1.324	2.143	18.7	18.5	2 5	6 8.98	+27 47.0	2.212	2.998	13.3	21.1
66304	1999 <i>JV</i> ₃₇		12 29.7 87°60	0°4/29.7	18		99491	2002 <i>CN</i> ₂₂₇		12 29.7 139°44	0°5/29.7	18	
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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
76374	2000 <i>EM</i> ₁₈₃	12 29.7 136°40		3°8/28.9 18			249891	2001 <i>RS</i> ₆₁	12 29.7 93°46		0°7/29.6 18		
11 27	7 2.53	+34 5.7	2.442	3.264	11.1	19.4	11 27	7 3.78	+23 47.5	1.994	2.825	12.9	21.3
12 7	6 56.26	+34 50.9	2.372	3.268	8.4	19.2	12 7	6 57.16	+24 12.8	1.937	2.845	9.4	21.1
12 17	6 47.89	+35 30.6	2.327	3.272	5.7	19.1	12 17	6 48.37	+24 39.2	1.905	2.864	5.4	20.9
12 27	6 38.20	+36 0.4	2.311	3.276	3.9	19.0	12 27	6 38.30	+25 3.5	1.902	2.884	1.3	20.7
1 6	6 28.19	+36 17.8	2.325	3.281	4.8	19.0	1 6	6 28.06	+25 23.4	1.928	2.903	3.2	20.9
1 16	6 18.93	+36 21.9	2.368	3.284	7.3	19.2	1 16	6 18.80	+25 37.9	1.984	2.921	7.1	21.1
1 26	6 11.38	+36 14.4	2.438	3.288	10.1	19.4	1 26	6 11.45	+25 47.3	2.068	2.940	10.6	21.4
2 5	6 6.17	+35 58.2	2.531	3.292	12.5	19.5	2 5	6 6.63	+25 52.8	2.174	2.958	13.6	21.6
300476	2007 <i>TG</i> ₁₁₇	12 29.7 128°59		1°7/29.4 18			420904	2013 <i>LM</i> ₃₅	12 29.7 140°14		2°4/30.4 18		
11 27	7 4.88	+26 18.9	1.988	2.818	12.9	21.4	11 27	6 58.59	+12 27.9	3.147	3.948	9.4	22.0
12 7	6 58.12	+26 55.2	1.923	2.830	9.5	21.2	12 7	6 52.74	+12 35.3	3.076	3.962	7.1	21.9
12 17	6 49.01	+27 30.9	1.883	2.841	5.6	21.0	12 17	6 45.60	+12 49.2	3.032	3.976	4.6	21.7
12 27	6 38.44	+28 2.2	1.871	2.851	2.0	20.8	12 27	6 37.70	+13 9.1	3.018	3.989	2.6	21.6
1 6	6 27.58	+28 25.8	1.890	2.862	3.7	20.9	1 6	6 29.65	+13 34.0	3.036	4.001	3.1	21.6
1 16	6 17.65	+28 40.8	1.938	2.871	7.5	21.2	1 16	6 22.09	+14 2.8	3.086	4.013	5.3	21.8
1 26	6 9.72	+28 47.9	2.013	2.881	11.1	21.4	1 26	6 15.61	+14 34.2	3.165	4.025	7.7	22.0
2 5	6 4.44	+28 49.0	2.110	2.889	14.1	21.6	2 5	6 10.63	+15 7.0	3.269	4.035	9.8	22.1
58274	1993 <i>TY</i> ₃₁	12 29.7 27°19		8°5/31.0 18			195779	2002 <i>PM</i> ₁₅₇	12 29.7 183°23		2°6/29.4 18		
11 27	6 58.82	+4 34.4	1.423	2.243	17.7	17.8	11 27	7 2.28	+31 36.4	2.476	3.299	10.9	20.6
12 7	6 54.03	+3 43.3	1.370	2.253	14.3	17.7	12 7	6 55.96	+31 50.0	2.399	3.300	8.1	20.5
12 17	6 46.75	+3 12.4	1.338	2.264	11.0	17.5	12 17	6 47.67	+31 58.7	2.347	3.300	5.1	20.3
12 27	6 37.95	+3 5.5	1.329	2.276	8.7	17.4	12 27	6 38.17	+31 59.6	2.325	3.299	2.7	20.1
1 6	6 28.93	+3 23.1	1.345	2.289	9.0	17.4	1 6	6 28.43	+31 51.3	2.333	3.299	3.8	20.2
1 16	6 20.99	+4 2.6	1.386	2.303	11.4	17.6	1 16	6 19.44	+31 33.9	2.370	3.298	6.7	20.4
1 26	6 15.21	+4 58.9	1.450	2.318	14.6	17.9	1 26	6 12.09	+31 9.2	2.436	3.297	9.6	20.6
2 5	6 12.23	+6 5.4	1.534	2.333	17.6	18.1	2 5	6 6.97	+30 40.0	2.525	3.296	12.2	20.7
81516	2000 <i>GA</i> ₁₇₉	12 29.7 287°40		7°2/30.9 18			362674	2011 <i>UE</i> ₅₃	12 29.7 316°40		3°7/30.2 17		
11 27	6 59.42	+3 58.7	1.876	2.674	14.9	20.2	11 27	6 59.54	+14 25.7	1.579	2.417	15.3	20.8
12 7	6 54.33	+3 35.5	1.783	2.654	12.2	20.0	12 7	6 54.79	+14 10.7	1.494	2.401	11.7	20.5
12 17	6 46.97	+3 29.3	1.713	2.634	9.3	19.8	12 17	6 47.39	+14 5.5	1.431	2.385	7.6	20.2
12 27	6 38.04	+3 42.7	1.668	2.614	7.4	19.6	12 27	6 38.17	+14 10.8	1.394	2.369	4.0	20.0
1 6	6 28.54	+4 16.4	1.651	2.595	7.6	19.6	1 6	6 28.34	+14 26.1	1.384	2.354	5.1	20.0
1 16	6 19.59	+5 8.7	1.661	2.575	10.1	19.7	1 16	6 19.27	+14 49.8	1.401	2.339	9.3	20.2
1 26	6 12.28	+6 15.5	1.696	2.555	13.3	19.9	1 26	6 12.24	+15 20.1	1.442	2.325	13.6	20.4
2 5	6 7.39	+7 31.8	1.753	2.535	16.4	20.0	2 5	6 8.09	+15 54.6	1.504	2.312	17.4	20.6
139491	2001 <i>PF</i> ₂₆	12 29.7 58°51		6°8/31.9 18			515904	2015 <i>PX</i> ₁₂₆	12 29.7 191°14		0°8/29.6 18		
11 27	7 2.40	+3 25.6	1.662	2.461	16.5	19.8	11 27	7 5.51	+24 47.3	2.008	2.836	12.9	22.5
12 7	6 56.17	+3 30.5	1.620	2.492	13.1	19.7	12 7	6 58.64	+25 0.1	1.928	2.835	9.5	22.3
12 17	6 47.76	+3 55.9	1.599	2.523	9.7	19.6	12 17	6 49.37	+25 12.9	1.874	2.833	5.5	22.1
12 27	6 38.15	+4 41.9	1.604	2.554	7.2	19.5	12 27	6 38.56	+25 22.8	1.849	2.830	1.4	21.8
1 6	6 28.50	+5 45.6	1.636	2.585	7.2	19.6	1 6	6 27.37	+25 27.8	1.853	2.827	3.3	21.9
1 16	6 19.94	+7 2.1	1.697	2.616	9.5	19.8	1 16	6 17.03	+25 27.5	1.888	2.824	7.5	22.2
1 26	6 13.41	+8 26.0	1.783	2.647	12.5	20.0	1 26	6 8.64	+25 22.6	1.949	2.819	11.3	22.4
2 5	6 9.44	+9 51.6	1.892	2.678	15.2	20.3	2 5	6 2.89	+25 15.1	2.034	2.814	14.5	22.6
354232	2002 <i>ND</i> ₄₅	12 29.7 119°01		5°0/30.9 18			249888	2001 <i>RD</i> ₃₄	12 29.7 204°89		3°5/29.5 17		
11 27	7 1.79	+7 17.3	2.067	2.867	13.6	21.3	11 27	7 6.15	+33 31.8	2.032	2.857	12.9	20.6
12 7	6 55.56	+7 15.7	2.003	2.881	10.7	21.2	12 7	6 59.16	+33 39.4	1.955	2.855	9.7	20.4
12 17	6 47.41	+7 28.0	1.964	2.896	7.6	21.0	12 17	6 49.67	+33 39.2	1.903	2.853	6.3	20.2
12 27	6 38.09	+7 54.3	1.952	2.910	5.3	20.9	12 27	6 38.62	+33 27.3	1.878	2.850	3.7	20.0
1 6	6 28.58	+8 33.4	1.969	2.924	5.6	21.0	1 6	6 27.29	+33 2.3	1.883	2.848	4.7	20.1
1 16	6 19.84	+9 22.7	2.015	2.937	8.1	21.1	1 16	6 16.98	+32 25.1	1.917	2.845	8.0	20.2
1 26	6 12.77	+10 18.8	2.089	2.950	11.0	21.3	1 26	6 8.81	+31 39.3	1.978	2.842	11.4	20.5
2 5	6 7.91	+11 18.3	2.186	2.962	13.7	21.5	2 5	6 3.45	+30 49.2	2.063	2.839	14.4	20.7
196057	2002 <i>TN</i> ₁₂	12 29.7 89°34		2°0/30.1 17			448487	2010 <i>JN</i> ₇₅	12 29.7 116°33		5°2/30.6 16		
11 27	6 58.95	+16 10.6	2.367	3.189	11.4	20.7	11 27	7 2.25	+7 25.3	2.266	3.060	12.8	22.8
12 7	6 53.38	+16 13.7	2.301	3.201	8.5	20.5	12 7	6 55.68	+6 53.6	2.208	3.081	10.0	22.6
12 17	6 46.10	+16 22.7	2.260	3.213	5.2	20.3	12 17	6 47.38	+6 33.3	2.174	3.102	7.3	22.5
12 27	6 37.80	+16 36.8	2.248	3.225	2.3	20.2	12 27	6 38.10	+6 25.9	2.169	3.122	5.4	22.4
1 6	6 29.34	+16 54.9	2.266	3.237	3.2	20.2	1 6	6 28.73	+6 31.3	2.194	3.141	5.7	22.4
1 16	6 21.54	+17 15.8	2.314	3.249	6.4	20.5	1 16	6 20.13	+6 48.5	2.247	3.160	7.9	22.6
1 26	6 15.19	+17 38.4	2.389	3.261	9.4	20.7	1 26	6 13.09	+7 15.3	2.328	3.178	10.5	22.8
2 5	6 10.80	+18 1.7	2.489	3.273	12.0	20.9	2 5	6 8.10	+7 49.1	2.432	3.195	12.9	23.0
262998	2007 <i>EW</i> ₁₀₆	12 29.7 291°63		0°7/29.9 17			329339	2001 <i>JP</i> ₄	12 29.7 183°42		2°1/29.0 18		
11 27	7 0.17	+19 50.7	2.025	2.857	12.6	20.4	11 27	7 1.72	+28 20.1	2.844	3.664	9.8	21.1
12 7	6 54.72	+20 9.6	1.944	2.852	9.3	20.1	12 7	6 55.44	+29 14.2	2.763	3.664	7.2	21.0
12 17	6 47.10	+20 33.4	1.888	2.847	5.5	19.9	12 17	6 47.37	+30 7.4	2.710	3.664	4.4	20.8
12 27	6 38.05	+21 0.2	1.860	2.842	1.4	19.6	12 27	6 38.14	+30 56.2	2.687	3.663	2.2	20.6
1 6	6 28.61	+21 27.7	1.862	2.837	3.1	19.7	1 6	6 28.54	+31 37.8	2.696	3.662	3.4	20.7
1 16	6 19.85	+21 54.1	1.893	2.832	7.2	20.0	1 16	6 19.44	+32 10.3	2.737	3.661	6.1	20.9
1 26	6 12.80	+22 18.5	1.950	2.827	10.9	20.2	1 26	6 11.67	+32 33.9	2.806	3.659	8.8	21.1
2 5	6 8.13	+22 40.6	2.031	2.822	14.1	20.4	2 5	6 5.83	+32 49.6	2.899	3.657	11.1	21.2
354397	2003 <i>TJ</i> ₅₇	12 29.7 36°30		1°0/29.7 17			276206	2002 <i>QF</i> ₇₁	12 29.7 185°02		3°3/29.3 18		
11 27	7 5.60	+27 29.4	1.473	2.318	15.8	20.7	11 27	7 2.99	+34 27.1				

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
393485	2002 <i>PB</i> ₈₀		12 29.7 134°69	7°1/30.8	18		203568	2002 <i>CL</i> ₁₅₀		12 29.7 162°81	0°6/29.8	18	
11 27	7 1.35	+ 2 44.4	2.182	2.962	13.7	21.8	11 27	7 4.17	+20 23.2	2.112	2.936	12.5	20.9
12 7	6 55.16	+ 1 56.8	2.118	2.974	11.1	21.7	12 7	6 57.49	+20 39.8	2.038	2.942	9.2	20.7
12 17	6 47.16	+ 1 24.0	2.077	2.985	8.7	21.6	12 17	6 48.67	+21 0.0	1.990	2.947	5.4	20.5
12 27	6 38.07	+ 1 8.6	2.064	2.996	7.2	21.5	12 27	6 38.50	+21 21.8	1.970	2.952	1.3	20.2
1 6	6 28.82	+ 1 11.4	2.079	3.007	7.4	21.5	1 6	6 28.02	+21 43.2	1.981	2.956	3.1	20.3
1 16	6 20.29	+ 1 31.4	2.121	3.017	9.2	21.6	1 16	6 18.32	+22 2.6	2.023	2.960	7.0	20.6
1 26	6 13.32	+ 2 5.8	2.190	3.026	11.6	21.8	1 26	6 10.39	+22 19.8	2.092	2.962	10.6	20.8
2 5	6 8.43	+ 2 50.7	2.281	3.035	13.9	22.0	2 5	6 4.86	+22 34.9	2.184	2.965	13.6	21.0
357468	2004 <i>EA</i> ₉₆		12 29.7 252°69	4°9/30.9	18		260328	2004 <i>TJ</i> ₁₈₂		12 29.7 54°26	0°9/29.6	17	
11 27	7 0.54	+ 7 8.6	2.281	3.077	12.6	21.3	11 27	7 1.46	+24 43.4	1.934	2.770	13.0	21.1
12 7	6 54.83	+ 7 8.7	2.182	3.058	10.0	21.1	12 7	6 55.70	+25 4.9	1.868	2.779	9.5	20.9
12 17	6 47.16	+ 7 21.8	2.108	3.039	7.2	20.9	12 17	6 47.68	+25 26.9	1.827	2.787	5.5	20.7
12 27	6 38.14	+ 7 49.0	2.062	3.020	5.1	20.7	12 27	6 38.28	+25 46.6	1.815	2.796	1.5	20.4
1 6	6 28.63	+ 8 29.4	2.046	3.000	5.5	20.7	1 6	6 28.62	+26 1.6	1.831	2.805	3.3	20.6
1 16	6 19.58	+ 9 21.1	2.059	2.980	8.0	20.8	1 16	6 19.85	+26 10.9	1.876	2.814	7.4	20.8
1 26	6 11.90	+10 21.1	2.099	2.959	11.0	21.0	1 26	6 12.99	+26 15.2	1.948	2.824	11.0	21.1
2 5	6 6.28	+11 25.9	2.164	2.938	13.9	21.1	2 5	6 8.67	+26 15.7	2.042	2.833	14.0	21.3
442236	2011 <i>LC</i> ₁₈		12 29.7 198°51	1°4/29.5	15		2170	Byelorussia		12 29.7 64°81	0°6/29.8	18	R
11 27	7 6.05	+26 9.0	2.057	2.883	12.7	22.9	11 27	7 5.97	+21 49.7	1.385	2.230	16.7	17.2
12 7	6 59.07	+26 31.4	1.975	2.880	9.4	22.7	12 7	6 59.38	+21 46.8	1.336	2.250	12.1	17.0
12 17	6 49.67	+26 53.2	1.918	2.876	5.5	22.5	12 17	6 49.90	+21 46.9	1.309	2.271	7.0	16.8
12 27	6 38.68	+27 10.8	1.891	2.871	1.8	22.2	12 27	6 38.75	+21 47.8	1.309	2.291	1.6	16.5
1 6	6 27.26	+27 21.8	1.893	2.866	3.5	22.3	1 6	6 27.52	+21 47.8	1.335	2.311	4.0	16.7
1 16	6 16.65	+27 25.4	1.926	2.860	7.5	22.5	1 16	6 17.72	+21 46.7	1.389	2.332	9.0	17.1
1 26	6 7.97	+27 22.4	1.985	2.853	11.2	22.8	1 26	6 10.57	+21 45.1	1.468	2.352	13.4	17.4
2 5	6 1.94	+27 15.1	2.068	2.845	14.4	23.0	2 5	6 6.70	+21 43.8	1.567	2.372	17.0	17.7
191608	2004 <i>HP</i> ₁₀		12 29.7 260°83	5°9/28.2	18	R	490968	2011 <i>EL</i> ₅		12 29.7 144°10	3°3/30.6	18	
11 27	7 7.88	+33 24.0	1.604	2.439	15.3	19.9	11 27	6 58.13	+ 9 58.4	2.981	3.777	10.0	22.2
12 7	7 1.52	+34 51.4	1.524	2.427	11.8	19.7	12 7	6 52.52	+ 9 55.8	2.908	3.788	7.7	22.1
12 17	6 51.64	+36 15.9	1.468	2.415	8.1	19.4	12 17	6 45.58	+10 1.3	2.862	3.798	5.3	21.9
12 27	6 39.19	+37 28.0	1.438	2.403	5.9	19.3	12 27	6 37.83	+10 14.8	2.845	3.808	3.5	21.8
1 6	6 25.77	+38 19.8	1.437	2.391	7.4	19.3	1 6	6 29.92	+10 35.8	2.859	3.817	3.8	21.8
1 16	6 13.25	+38 47.9	1.462	2.378	11.0	19.5	1 16	6 22.51	+11 3.2	2.904	3.826	5.9	22.0
1 26	6 3.41	+38 54.3	1.511	2.365	14.9	19.7	1 26	6 16.20	+11 35.3	2.977	3.835	8.2	22.2
2 5	5 57.33	+38 44.7	1.580	2.352	18.3	19.9	2 5	6 11.44	+12 10.5	3.076	3.843	10.3	22.3
370584	2003 <i>UD</i> ₃₆₃		12 29.7 325°25	4°0/28.8	18		449324	2013 <i>FL</i> ₁₄		12 29.7 85°92	0°3/29.7	18	
11 27	7 2.14	+32 19.0	2.107	2.937	12.3	20.8	11 27	7 2.40	+22 14.0	1.856	2.692	13.5	20.7
12 7	6 56.37	+33 16.6	2.031	2.933	9.3	20.6	12 7	6 56.51	+22 47.0	1.787	2.697	9.9	20.5
12 17	6 48.18	+34 10.4	1.980	2.929	6.1	20.4	12 17	6 48.24	+23 23.6	1.742	2.702	5.7	20.2
12 27	6 38.38	+34 55.3	1.957	2.926	4.0	20.3	12 27	6 38.44	+24 0.5	1.725	2.707	1.3	19.9
1 6	6 28.09	+35 27.2	1.963	2.923	5.2	20.3	1 6	6 28.28	+24 34.4	1.737	2.712	3.3	20.1
1 16	6 18.56	+35 44.5	1.998	2.919	8.2	20.5	1 16	6 18.98	+25 3.3	1.778	2.717	7.6	20.4
1 26	6 10.93	+35 48.4	2.059	2.916	11.3	20.7	1 26	6 11.64	+25 26.6	1.845	2.722	11.5	20.6
2 5	6 5.93	+35 41.9	2.143	2.913	14.1	20.9	2 5	6 6.95	+25 45.1	1.936	2.727	14.7	20.8
390741	2003 <i>SK</i> ₈₁		12 29.7 118°73	3°9/30.1	18		323191	2003 <i>QC</i> ₁₅		12 29.7 127°32	3°7/30.4	18	
11 27	7 3.60	+13 30.9	1.908	2.726	13.9	21.2	11 27	6 59.24	+10 56.3	2.504	3.310	11.4	21.6
12 7	6 57.02	+12 54.0	1.845	2.740	10.5	21.0	12 7	6 53.52	+10 39.8	2.435	3.321	8.7	21.4
12 17	6 48.32	+12 25.0	1.806	2.752	6.9	20.8	12 17	6 46.22	+10 31.6	2.391	3.331	5.9	21.3
12 27	6 38.38	+12 5.1	1.795	2.765	4.2	20.7	12 27	6 37.97	+10 32.5	2.376	3.341	3.9	21.2
1 6	6 28.28	+11 54.7	1.813	2.777	5.0	20.7	1 6	6 29.56	+10 41.9	2.392	3.351	4.3	21.2
1 16	6 19.10	+11 53.5	1.860	2.788	8.2	20.9	1 16	6 21.76	+10 59.1	2.436	3.361	6.7	21.4
1 26	6 11.79	+12 0.5	1.934	2.800	11.6	21.2	1 26	6 15.31	+11 22.4	2.509	3.370	9.4	21.6
2 5	6 6.93	+12 14.1	2.030	2.810	14.5	21.4	2 5	6 10.69	+11 50.2	2.606	3.379	11.8	21.7
85925	1999 <i>CV</i> ₁₀₉		12 29.7 359°79	0°5/29.7	18		55620	2002 <i>TK</i> ₁₂₁		12 29.7 164°63	4°6/30.0	18	
11 27	7 4.09	+23 32.1	1.354	2.205	16.6	18.9	11 27	7 2.03	+11 36.6	2.027	2.840	13.4	19.8
12 7	6 58.36	+23 5.1	1.287	2.204	12.3	18.6	12 7	6 55.89	+10 49.5	1.953	2.843	10.3	19.6
12 17	6 49.51	+22 37.5	1.241	2.203	7.2	18.3	12 17	6 47.73	+10 10.8	1.904	2.845	7.1	19.4
12 27	6 38.68	+22 8.4	1.221	2.203	1.6	18.0	12 27	6 38.32	+ 9 42.2	1.883	2.847	4.8	19.3
1 6	6 27.48	+21 37.8	1.227	2.203	4.2	18.1	1 6	6 28.65	+ 9 25.0	1.891	2.849	5.5	19.3
1 16	6 17.56	+21 7.3	1.260	2.204	9.5	18.4	1 16	6 19.76	+ 9 19.2	1.927	2.850	8.3	19.5
1 26	6 10.31	+20 39.1	1.317	2.205	14.3	18.7	1 26	6 12.56	+ 9 23.9	1.991	2.851	11.5	19.7
2 5	6 6.48	+20 15.1	1.394	2.207	18.3	19.0	2 5	6 7.66	+ 9 37.0	2.076	2.852	14.4	19.9
32458	2000 <i>SF</i> ₈₇		12 29.7 162°72	4°5/28.8	18		174410	2002 <i>VT</i> ₈₀		12 29.7 69°54	3°0/30.2	18	
11 27	7 8.53	+34 26.1	2.178	2.994	12.5	18.8	11 27	7 4.51	+15 0.1	1.731	2.556	14.8	20.6
12 7	7 0.93	+35 24.2	2.109	3.001	9.5	18.6	12 7	6 57.68	+14 51.5	1.688	2.588	11.0	20.4
12 17	6 50.77	+36 16.0	2.064	3.008	6.5	18.5	12 17	6 48.68	+14 51.5	1.668	2.620	6.8	20.2
12 27	6 38.95	+36 55.7	2.049	3.013	4.5	18.3	12 27	6 38.49	+14 59.3	1.677	2.652	3.3	20.1
1 6	6 26.72	+37 19.4	2.064	3.018	5.5	18.4	1 6	6 28.32	+15 13.7	1.714	2.684	4.3	20.2
1 16	6 15.41	+37 26.3	2.109	3.022	8.3	18.6	1 16	6 19.32	+15 33.2	1.780	2.715	7.9	20.5
1 26	6 6.18	+37 18.6	2.180	3.025	11.3	18.8	1 26	6 12.40	+15 56.0	1.872	2.746	11.5	20.8
2 5	5 59.78	+37 0.6	2.274	3.027	13.9	19.0	2 5	6 8.08	+16 20.9	1.987	2.776	14.4	21.0
167877	2005 <i>EH</i> ₃₅		12 29.7 299°06	2°7/30.0	17		114709	2003 <i>GU</i> ₅		12 29.7 290°42	4°4/28.9	18	
11 27	7 1.08												

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
168156	2006 <i>HZ</i> ₄₆		12 29.7 133°03	0°3/29.8	18		326623	2002 <i>RO</i> ₁₉₆		12 29.7 118°71	2°4/30.1	18	
11 27	7 4.12	+21 11.6	2.016	2.844	12.9	21.2	11 27	6 59.43	+15 3.1	2.726	3.538	10.4	21.0
12 7	6 57.49	+21 27.4	1.950	2.855	9.4	21.0	12 7	6 53.54	+14 45.7	2.660	3.554	7.7	20.8
12 17	6 48.68	+21 46.2	1.908	2.866	5.5	20.7	12 17	6 46.20	+14 33.3	2.620	3.568	4.9	20.7
12 27	6 38.53	+22 5.8	1.895	2.877	1.3	20.5	12 27	6 38.01	+14 26.2	2.610	3.583	2.6	20.5
1 6	6 28.14	+22 24.1	1.912	2.887	3.1	20.6	1 6	6 29.70	+14 24.0	2.630	3.597	3.3	20.6
1 16	6 18.62	+22 40.0	1.959	2.897	7.1	20.9	1 16	6 22.02	+14 26.5	2.681	3.611	5.9	20.8
1 26	6 10.96	+22 53.2	2.033	2.906	10.8	21.1	1 26	6 15.60	+14 33.0	2.761	3.625	8.6	21.0
2 5	6 5.79	+23 4.2	2.131	2.914	13.8	21.4	2 5	6 10.91	+14 42.7	2.865	3.638	10.9	21.2
493416	2014 <i>WD</i> ₂₁₈		12 29.7 254°89	1°9/29.9	17		394522	2007 <i>TH</i> ₃₆₁		12 29.7 102°37	1°0/29.9	15	
11 27	6 59.71	+18 9.0	2.313	3.138	11.5	21.7	11 27	7 3.90	+20 2.6	1.881	2.710	13.6	21.9
12 7	6 54.12	+17 48.7	2.231	3.133	8.6	21.5	12 7	6 57.38	+20 3.2	1.820	2.726	9.9	21.7
12 17	6 46.69	+17 31.8	2.174	3.129	5.2	21.3	12 17	6 48.63	+20 7.5	1.783	2.741	5.8	21.5
12 27	6 38.11	+17 18.4	2.146	3.124	2.2	21.1	12 27	6 38.55	+20 13.9	1.775	2.757	1.7	21.3
1 6	6 29.25	+17 8.4	2.147	3.119	3.3	21.2	1 6	6 28.30	+20 21.2	1.797	2.771	3.3	21.4
1 16	6 21.03	+17 1.8	2.179	3.115	6.7	21.4	1 16	6 19.04	+20 28.5	1.847	2.786	7.4	21.7
1 26	6 14.30	+16 58.5	2.238	3.110	9.9	21.6	1 26	6 11.74	+20 35.8	1.925	2.800	11.1	21.9
2 5	6 9.62	+16 58.4	2.321	3.105	12.8	21.7	2 5	6 7.00	+20 43.1	2.025	2.814	14.2	22.2
362889	2012 <i>BA</i> ₁₁₆		12 29.7 91°84	1°4/29.6	17		414924	2011 <i>AC</i> ₄₁		12 29.7 107°20	0°5/29.6	18	
11 27	7 3.19	+27 10.4	1.958	2.792	13.0	21.0	11 27	7 1.62	+22 45.6	2.266	3.094	11.6	20.5
12 7	6 56.99	+27 14.8	1.886	2.795	9.5	20.8	12 7	6 55.58	+23 23.7	2.199	3.105	8.5	20.4
12 17	6 48.47	+27 16.7	1.839	2.797	5.6	20.6	12 17	6 47.56	+24 4.3	2.158	3.116	4.9	20.2
12 27	6 38.50	+27 13.7	1.819	2.800	1.8	20.4	12 27	6 38.33	+24 44.2	2.145	3.127	1.2	19.9
1 6	6 28.27	+27 4.2	1.829	2.803	3.5	20.5	1 6	6 28.83	+25 20.7	2.164	3.138	2.9	20.1
1 16	6 18.96	+26 48.5	1.868	2.805	7.5	20.7	1 16	6 20.05	+25 52.0	2.212	3.149	6.5	20.3
1 26	6 11.62	+26 28.4	1.934	2.808	11.2	21.0	1 26	6 12.88	+26 17.6	2.289	3.159	9.8	20.5
2 5	6 6.90	+26 6.1	2.022	2.811	14.3	21.2	2 5	6 7.93	+26 38.1	2.389	3.169	12.6	20.7
173387	2000 <i>CG</i> ₅₀		12 29.7 311°28	4°6/29.7	17		356154	2009 <i>HO</i> ₁₂		12 29.7 355°42	1°5/29.9	18	
11 27	7 6.42	+35 11.3	1.655	2.489	15.0	19.3	11 27	6 59.21	+18 55.3	1.296	2.153	16.9	20.4
12 7	7 0.05	+35 18.3	1.574	2.477	11.5	19.1	12 7	6 54.98	+19 3.5	1.228	2.148	12.5	20.2
12 17	6 50.54	+35 14.7	1.516	2.466	7.7	18.8	12 17	6 47.71	+19 19.8	1.182	2.144	7.5	19.9
12 27	6 38.99	+34 55.4	1.484	2.455	4.8	18.6	12 27	6 38.42	+19 42.4	1.160	2.141	2.3	19.5
1 6	6 26.98	+34 18.1	1.480	2.444	5.9	18.7	1 6	6 28.60	+20 8.7	1.163	2.140	4.3	19.7
1 16	6 16.16	+33 24.5	1.503	2.433	9.6	18.8	1 16	6 19.86	+20 36.1	1.192	2.139	9.6	20.0
1 26	6 7.95	+32 19.8	1.551	2.423	13.6	19.1	1 26	6 13.63	+21 3.1	1.245	2.140	14.5	20.2
2 5	6 3.16	+31 10.5	1.621	2.413	17.1	19.3	2 5	6 10.73	+21 28.5	1.317	2.141	18.5	20.5
149014	2002 <i>AQ</i> ₄₆		12 29.7 264°22	1°0/29.9	17		249846	2001 <i>PU</i> ₄₆		12 29.8 121°02	5°2/28.8	18	
11 27	7 0.79	+19 58.1	2.039	2.870	12.6	20.5	11 27	7 7.53	+37 6.9	2.176	2.990	12.5	21.3
12 7	6 55.18	+20 0.8	1.959	2.867	9.3	20.3	12 7	7 0.20	+38 1.7	2.116	3.005	9.7	21.2
12 17	6 47.43	+20 7.3	1.904	2.863	5.5	20.0	12 17	6 50.35	+38 47.7	2.082	3.018	6.9	21.0
12 27	6 38.30	+20 16.3	1.878	2.859	1.6	19.8	12 27	6 38.95	+39 19.3	2.075	3.032	5.2	20.9
1 6	6 28.82	+20 26.4	1.880	2.855	3.2	19.9	1 6	6 27.27	+39 33.1	2.098	3.045	6.1	21.0
1 16	6 20.06	+20 36.8	1.912	2.851	7.2	20.1	1 16	6 16.62	+39 29.1	2.150	3.057	8.5	21.2
1 26	6 13.00	+20 46.9	1.970	2.847	10.9	20.3	1 26	6 8.12	+39 10.3	2.228	3.069	11.2	21.4
2 5	6 8.31	+20 57.0	2.052	2.843	14.0	20.5	2 5	6 2.43	+38 41.3	2.328	3.081	13.7	21.6
116328	2003 <i>YL</i> ₇₃		12 29.7 68°85	1°1/29.6	18		216318	2007 <i>TB</i> ₂₄₁		12 29.8 13°73	9°6/31.2	18	
11 27	7 8.74	+24 20.7	1.259	2.108	17.8	19.2	11 27	6 58.58	+ 2 34.1	1.394	2.208	18.3	20.1
12 7	7 1.66	+24 44.1	1.217	2.133	12.9	19.0	12 7	6 54.07	+ 1 37.0	1.335	2.212	15.1	19.9
12 17	6 51.32	+25 8.4	1.196	2.157	7.5	18.8	12 17	6 46.96	+ 1 2.0	1.297	2.216	11.9	19.7
12 27	6 39.12	+25 28.8	1.200	2.182	1.9	18.5	12 27	6 38.23	+ 0 54.0	1.281	2.220	9.8	19.6
1 6	6 26.88	+25 42.1	1.232	2.207	4.4	18.8	1 6	6 29.16	+ 1 14.1	1.289	2.226	10.0	19.6
1 16	6 16.33	+25 47.6	1.290	2.231	9.6	19.1	1 16	6 21.09	+ 1 59.8	1.321	2.233	12.3	19.8
1 26	6 8.81	+25 47.0	1.372	2.256	14.1	19.5	1 26	6 15.20	+ 3 5.5	1.376	2.240	15.4	20.0
2 5	6 4.93	+25 43.0	1.474	2.280	17.8	19.8	2 5	6 12.19	+ 4 23.6	1.450	2.248	18.4	20.2
187588	2006 <i>WV</i> ₈₈		12 29.7 309°95	2°8/29.3	17		411120	2009 <i>WL</i> ₁₃₄		12 29.8 62°37	4°0/30.4	18	
11 27	7 2.56	+29 13.4	1.805	2.643	13.7	20.4	11 27	6 59.85	+11 45.5	2.012	2.830	13.3	20.8
12 7	6 56.96	+29 46.7	1.724	2.634	10.2	20.1	12 7	6 54.25	+11 23.9	1.955	2.847	10.1	20.6
12 17	6 48.69	+30 17.6	1.667	2.624	6.3	19.9	12 17	6 46.75	+11 12.1	1.921	2.865	6.8	20.4
12 27	6 38.60	+30 41.6	1.638	2.615	3.0	19.7	12 27	6 38.15	+11 10.7	1.914	2.882	4.3	20.3
1 6	6 27.99	+30 55.3	1.637	2.606	4.6	19.7	1 6	6 29.43	+11 19.3	1.937	2.900	4.9	20.4
1 16	6 18.24	+30 57.5	1.664	2.598	8.5	20.0	1 16	6 21.53	+11 36.7	1.988	2.917	7.7	20.6
1 26	6 10.61	+30 49.6	1.716	2.589	12.4	20.2	1 26	6 15.29	+12 1.1	2.066	2.935	10.8	20.8
2 5	6 5.90	+30 34.8	1.790	2.581	15.7	20.4	2 5	6 11.25	+12 30.1	2.166	2.952	13.5	21.0
179611	2002 <i>OS</i> ₂₃		12 29.7 143°12	3°7/29.6	18		447594	2006 <i>UM</i> ₆₂		12 29.8 143°21	1°1/29.6	18	
11 27	7 8.52	+34 43.5	2.179	2.995	12.5	20.5	11 27	7 3.99	+25 42.5	2.336	3.160	11.5	22.2
12 7	7 0.69	+34 52.7	2.111	3.005	9.4	20.3	12 7	6 57.24	+26 4.7	2.267	3.171	8.4	22.1
12 17	6 50.51	+34 53.3	2.068	3.015	6.2	20.2	12 17	6 48.50	+26 26.2	2.224	3.182	4.9	21.9
12 27	6 38.95	+34 41.6	2.054	3.024	3.8	20.0	12 27	6 38.55	+26 44.3	2.211	3.192	1.5	21.6
1 6	6 27.26	+34 16.2	2.071	3.032	4.7	20.1	1 6	6 28.37	+26 57.0	2.228	3.201	3.0	21.8
1 16	6 16.66	+33 38.5	2.117	3.040	7.7	20.3	1 16	6 18.98	+27 3.7	2.276	3.210	6.5	22.0
1 26	6 8.19	+32 52.0	2.191	3.048	10.8	20.5	1 26	6 11.26	+27 5.1	2.352	3.218	9.8	22.2
2 5	6 2.44	+32 1.1	2.288	3.055	13.5	20.7	2 5	6 5.81	+27 2.5	2.452	3.226	12.5	22.4
25767	Stevennyoyce		12 29.7 168°49	4°4/30.6	18		203686	2002 <i>NQ</i> ₃₈		12 29.8 306°28	9°8/31.1	17	
11 27	7 1.08												

EPHEMERIDES

12 29.8

12 29.8

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
275310	2010 <i>TR</i> ₃₆		12 29.8 133°32'	4.3/30.6	16		457379	2008 <i>TK</i> ₃₄		12 29.8 243°64'	6.7/30.8	17	
11 27	7 7.67	+10 56.2	1.782	2.590	15.1	21.8	11 27	6 57.63	+2 14.7	2.417	3.196	12.5	21.5
12 7	7 0.14	+10 51.8	1.721	2.609	11.6	21.6	12 7	6 52.52	+1 31.8	2.339	3.193	10.3	21.3
12 17	6 50.25	+10 59.5	1.684	2.627	7.7	21.4	12 17	6 45.77	+1 2.4	2.285	3.190	8.2	21.2
12 27	6 38.95	+11 19.3	1.676	2.644	4.6	21.2	12 27	6 37.99	+0 49.1	2.257	3.187	6.9	21.1
1 6	6 27.45	+11 49.5	1.696	2.660	5.3	21.3	1 6	6 29.94	+0 52.8	2.257	3.183	7.1	21.1
1 16	6 16.99	+12 27.7	1.746	2.675	8.6	21.5	1 16	6 22.43	+1 12.9	2.285	3.180	8.7	21.2
1 26	6 8.61	+13 11.1	1.823	2.689	12.2	21.8	1 26	6 16.21	+1 46.9	2.339	3.176	10.9	21.3
2 5	6 2.94	+13 57.0	1.923	2.701	15.3	22.0	2 5	6 11.82	+2 31.6	2.416	3.173	13.1	21.5
399260	2014 <i>HO</i> ₄₁		12 29.8 277°87'	0.6/29.9	18		251129	2006 <i>SW</i> ₄₁₃		12 29.8 128°07'	1.9/29.7	18	
11 27	7 3.22	+20 48.1	1.636	2.475	14.8	21.6	11 27	7 6.53	+29 54.6	2.083	2.908	12.6	20.8
12 7	6 57.59	+20 59.4	1.550	2.461	11.0	21.3	12 7	6 59.23	+29 45.1	2.015	2.918	9.3	20.6
12 17	6 49.15	+21 15.5	1.487	2.448	6.5	21.0	12 17	6 49.69	+29 30.0	1.971	2.927	5.6	20.4
12 27	6 38.77	+21 34.2	1.452	2.434	1.6	20.6	12 27	6 38.83	+29 7.0	1.957	2.936	2.2	20.2
1 6	6 27.75	+21 53.0	1.444	2.420	3.7	20.8	1 6	6 27.84	+28 35.7	1.973	2.945	3.6	20.3
1 16	6 17.53	+22 10.1	1.464	2.406	8.7	21.0	1 16	6 17.90	+27 57.4	2.019	2.953	7.3	20.5
1 26	6 9.46	+22 25.2	1.510	2.392	13.2	21.3	1 26	6 10.00	+27 15.0	2.093	2.961	10.7	20.7
2 5	6 4.42	+22 38.5	1.577	2.378	17.1	21.5	2 5	6 4.70	+26 31.8	2.190	2.969	13.6	20.9
210524	1998 <i>TK</i> ₂₅		12 29.8 116°89'	0.9/29.6	18		520130	2014 <i>BL</i> ₆₇		12 29.8 226°92'	1.0/29.7	18	
11 27	7 4.34	+24 55.0	1.943	2.774	13.1	21.1	11 27	7 5.98	+25 48.9	1.799	2.633	13.9	21.6
12 7	6 57.79	+25 13.0	1.878	2.786	9.6	20.9	12 7	6 59.36	+25 54.1	1.717	2.625	10.3	21.3
12 17	6 48.94	+25 31.1	1.837	2.796	5.6	20.7	12 17	6 50.05	+25 58.0	1.658	2.617	6.1	21.1
12 27	6 38.67	+25 46.2	1.825	2.807	1.5	20.4	12 27	6 38.96	+25 57.8	1.627	2.609	1.7	20.8
1 6	6 28.16	+25 56.2	1.843	2.817	3.3	20.6	1 6	6 27.39	+25 51.5	1.626	2.600	3.7	20.9
1 16	6 18.60	+26 0.5	1.890	2.827	7.4	20.9	1 16	6 16.74	+25 39.0	1.653	2.591	8.2	21.1
1 26	6 11.03	+25 59.9	1.964	2.837	11.1	21.1	1 26	6 8.24	+25 22.1	1.707	2.582	12.4	21.4
2 5	6 6.07	+25 56.0	2.061	2.846	14.1	21.3	2 5	6 2.69	+25 3.1	1.783	2.572	15.9	21.6
457827	2009 <i>SF</i> ₆₀		12 29.8 192°48'	3.9/29.2	18		44927	1999 <i>VX</i> ₃₆		12 29.8 86°17'	2.6/29.9	18	
11 27	7 4.19	+34 44.1	2.274	3.095	11.8	21.4	11 27	7 7.84	+17 55.0	1.454	2.289	16.6	18.6
12 7	6 57.68	+35 11.6	2.199	3.094	9.0	21.2	12 7	7 0.56	+17 30.0	1.405	2.312	12.2	18.4
12 17	6 48.89	+35 32.2	2.148	3.094	6.1	21.0	12 17	6 50.55	+17 11.2	1.379	2.336	7.4	18.2
12 27	6 38.67	+35 41.6	2.126	3.093	4.0	20.9	12 27	6 39.02	+16 58.3	1.380	2.359	3.0	18.0
1 6	6 28.13	+35 37.7	2.133	3.092	4.9	20.9	1 6	6 27.46	+16 51.0	1.409	2.382	4.5	18.1
1 16	6 18.45	+35 20.5	2.170	3.090	7.7	21.1	1 16	6 17.31	+16 48.9	1.466	2.404	9.0	18.4
1 26	6 10.66	+34 52.4	2.233	3.089	10.6	21.3	1 26	6 9.72	+16 51.7	1.547	2.426	13.2	18.7
2 5	6 5.40	+34 17.2	2.320	3.087	13.3	21.4	2 5	6 5.26	+16 58.5	1.650	2.447	16.6	19.0
187742	2351 <i>T</i> ₋₃		12 29.8 142°89'	3.1/30.1	18		139671	2001 <i>QN</i> ₂₀₀		12 29.8 249°86'	16.0/28.2	18	
11 27	7 5.38	+15 49.2	1.726	2.551	14.8	20.6	11 27	7 6.48	-2 54.0	1.184	1.977	22.1	19.4
12 7	6 58.65	+15 26.5	1.659	2.560	11.1	20.4	12 7	7 0.40	-5 41.1	1.123	1.971	19.4	19.2
12 17	6 49.48	+15 10.8	1.616	2.568	7.0	20.2	12 17	6 50.95	-8 4.6	1.082	1.965	17.1	19.0
12 27	6 38.79	+15 2.4	1.600	2.576	3.4	20.0	12 27	6 39.20	-9 50.8	1.062	1.959	16.0	19.0
1 6	6 27.85	+15 1.0	1.613	2.583	4.6	20.1	1 6	6 26.79	-10 50.3	1.063	1.953	16.7	19.0
1 16	6 17.91	+15 5.8	1.654	2.589	8.5	20.3	1 16	6 15.52	-11 0.6	1.085	1.946	18.8	19.1
1 26	6 10.08	+15 16.2	1.722	2.595	12.4	20.6	1 26	6 6.98	-10 27.3	1.125	1.940	21.6	19.2
2 5	6 5.00	+15 30.9	1.812	2.600	15.7	20.8	2 5	6 2.11	-9 21.3	1.180	1.933	24.3	19.4
411109	2009 <i>WS</i> ₇₁		12 29.8 51°10'	2.5/29.1	17		137708	1999 <i>XK</i> ₈₉		12 29.8 17°30'	0.0/29.7	18	
11 27	7 1.91	+27 58.7	2.081	2.914	12.3	20.6	11 27	7 3.42	+20 15.7	1.274	2.126	17.4	19.5
12 7	6 56.11	+28 52.9	2.012	2.919	9.1	20.4	12 7	6 58.17	+20 57.4	1.210	2.128	12.8	19.2
12 17	6 48.04	+29 46.3	1.968	2.925	5.5	20.1	12 17	6 49.63	+21 47.8	1.168	2.131	7.5	18.9
12 27	6 38.49	+30 34.5	1.953	2.930	2.7	20.0	12 27	6 38.90	+22 42.2	1.151	2.134	1.7	18.6
1 6	6 28.57	+31 13.5	1.967	2.935	4.1	20.1	1 6	6 27.61	+23 35.1	1.161	2.137	4.2	18.8
1 16	6 19.42	+31 41.5	2.010	2.941	7.5	20.3	1 16	6 17.51	+24 22.2	1.196	2.141	9.8	19.1
1 26	6 12.09	+31 58.9	2.081	2.946	10.9	20.5	1 26	6 10.14	+25 1.9	1.255	2.145	14.7	19.4
2 5	6 7.28	+32 7.7	2.174	2.952	13.7	20.7	2 5	6 6.37	+25 34.4	1.334	2.150	18.8	19.7
189726	2001 <i>VD</i> ₅₅		12 29.8 111°42'	0.7/29.8	18		322991	2002 <i>OU</i> ₁₁		12 29.8 88°60'	5.7/30.4	18	
11 27	7 6.46	+22 1.9	1.686	2.520	14.7	20.0	11 27	6 59.30	+6 19.9	2.335	3.129	12.4	20.4
12 7	6 59.47	+21 49.5	1.625	2.533	10.8	19.8	12 7	6 53.65	+5 30.9	2.273	3.143	9.9	20.2
12 17	6 49.93	+21 38.6	1.588	2.547	6.3	19.5	12 17	6 46.36	+4 53.2	2.235	3.156	7.4	20.1
12 27	6 38.88	+21 27.8	1.578	2.560	1.5	19.2	12 27	6 38.11	+4 29.1	2.225	3.170	5.8	20.0
1 6	6 27.67	+21 16.5	1.597	2.572	3.6	19.4	1 6	6 29.73	+4 19.3	2.243	3.183	6.2	20.0
1 16	6 17.62	+21 4.7	1.645	2.585	8.1	19.7	1 16	6 22.04	+4 23.4	2.290	3.197	8.1	20.2
1 26	6 9.84	+20 53.6	1.720	2.597	12.2	20.0	1 26	6 15.76	+4 39.6	2.364	3.210	10.5	20.4
2 5	6 4.97	+20 44.2	1.816	2.608	15.5	20.2	2 5	6 11.39	+5 5.1	2.460	3.223	12.7	20.5
79086	Gorgasali		12 29.8 158°02'	10.8/29.0	18		116531	2004 <i>BA</i> ₅₅		12 29.8 195°76'	1.3/29.7	18	
11 27	7 29.68	+63 17.4	2.812	3.490	13.1	20.2	11 27	7 7.71	+26 35.7	1.813	2.643	14.0	20.2
12 7	7 17.32	+64 18.8	2.760	3.499	12.0	20.2	12 7	7 0.56	+26 41.8	1.734	2.641	10.3	20.0
12 17	7 0.60	+64 57.6	2.728	3.506	11.2	20.1	12 17	6 50.71	+26 45.8	1.680	2.639	6.1	19.7
12 27	6 41.22	+65 5.4	2.719	3.513	10.8	20.1	12 27	6 39.11	+26 44.6	1.654	2.635	1.8	19.4
1 6	6 21.71	+64 38.9	2.734	3.520	10.9	20.1	1 6	6 27.10	+26 36.0	1.658	2.631	3.7	19.5
1 16	6 4.56	+63 40.1	2.773	3.526	11.6	20.2	1 16	6 16.08	+26 20.5	1.690	2.627	8.2	19.8
1 26	5 51.52	+62 16.2	2.835	3.531	12.6	20.3	1 26	6 7.30	+25 59.9	1.749	2.621	12.3	20.0
2 5	5 43.25	+60 36.2	2.916	3.535	13.7	20.4	2 5	6 1.49	+25 37.2	1.831	2.616	15.7	20.3
103895	2000 <i>DF</i> ₅₅		12 29.8 181°47'	3.4/30.5	18		180153	2003 <i>GK</i> ₂₅		12 29.8 253°59'	6.9/28.4	17	
11 27	7 1.21	+11 54.2</											

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
420223	2011 <i>HO</i> ₂₈		12 29.8 284°66	10°6/29.9	18		77635	2001 <i>KO</i> ₅₅		12 29.8 305°94	7°3/30.5	18	R
11 27	6 57.94	- 8 53.0	2.423	3.143	14.0	20.8	11 27	6 59.76	+ 6 13.3	1.654	2.467	15.9	19.2
12 7	6 52.85	-10 20.9	2.345	3.131	12.6	20.7	12 7	6 54.86	+ 5 28.3	1.572	2.454	12.8	19.0
12 17	6 46.04	-11 30.6	2.288	3.119	11.3	20.6	12 17	6 47.50	+ 4 58.6	1.512	2.441	9.7	18.8
12 27	6 38.09	-12 16.8	2.255	3.106	10.7	20.5	12 27	6 38.47	+ 4 47.7	1.476	2.427	7.5	18.6
1 6	6 29.80	-12 36.7	2.247	3.094	10.9	20.5	1 6	6 28.91	+ 4 57.2	1.467	2.415	8.0	18.6
1 16	6 21.98	-12 30.0	2.263	3.082	11.8	20.5	1 16	6 20.06	+ 5 26.1	1.483	2.402	10.7	18.7
1 26	6 15.44	-11 59.0	2.301	3.069	13.3	20.6	1 26	6 13.10	+ 6 11.3	1.524	2.390	14.1	18.9
2 5	6 10.75	-11 8.4	2.359	3.057	14.9	20.7	2 5	6 8.80	+ 7 7.7	1.586	2.378	17.4	19.1
434407	2005 <i>JF</i> ₃₉		12 29.8 237°09	1°3/29.6	18		318962	2005 <i>UB</i> ₂₄₉		12 29.8 150°37	0°9/29.9	17	
11 27	7 7.03	+25 0.4	1.716	2.549	14.5	22.1	11 27	7 1.23	+19 56.2	2.152	2.980	12.2	21.8
12 7	7 0.40	+25 26.5	1.628	2.537	10.7	21.9	12 7	6 55.39	+19 59.2	2.078	2.983	8.9	21.6
12 17	6 50.83	+25 53.8	1.564	2.523	6.4	21.6	12 17	6 47.54	+20 5.7	2.028	2.986	5.3	21.3
12 27	6 39.21	+26 18.3	1.528	2.509	1.8	21.2	12 27	6 38.44	+20 14.4	2.007	2.988	1.5	21.1
1 6	6 26.88	+26 36.4	1.521	2.495	4.0	21.4	1 6	6 29.07	+20 24.2	2.016	2.991	3.0	21.2
1 16	6 15.38	+26 46.5	1.542	2.479	8.8	21.6	1 16	6 20.42	+20 34.0	2.054	2.993	6.8	21.5
1 26	6 6.12	+26 49.4	1.590	2.463	13.2	21.8	1 26	6 13.41	+20 43.6	2.120	2.995	10.3	21.7
2 5	6 0.01	+26 47.3	1.659	2.447	16.9	22.0	2 5	6 8.65	+20 53.0	2.210	2.997	13.2	21.9
439314	2012 <i>VG</i> ₈₅		12 29.8 165°44	0°7/29.7	18		212172	2005 <i>GQ</i> ₅₂		12 29.8 160°95	2°6/30.1	18	
11 27	7 5.34	+23 54.5	1.864	2.695	13.6	21.6	11 27	7 2.18	+15 51.6	2.118	2.939	12.6	20.9
12 7	6 58.72	+24 18.0	1.791	2.699	10.0	21.4	12 7	6 56.04	+15 37.8	2.044	2.943	9.4	20.7
12 17	6 49.61	+24 42.8	1.743	2.702	5.8	21.1	12 17	6 47.91	+15 30.1	1.995	2.946	5.9	20.5
12 27	6 38.89	+25 5.8	1.723	2.705	1.4	20.8	12 27	6 38.53	+15 28.4	1.974	2.950	2.9	20.3
1 6	6 27.80	+25 24.2	1.733	2.708	3.5	21.0	1 6	6 28.89	+15 32.1	1.983	2.953	3.8	20.4
1 16	6 17.61	+25 36.8	1.772	2.710	7.8	21.3	1 16	6 20.00	+15 40.5	2.021	2.956	7.2	20.6
1 26	6 9.48	+25 44.0	1.838	2.711	11.7	21.5	1 26	6 12.76	+15 52.9	2.087	2.958	10.6	20.8
2 5	6 4.12	+25 47.2	1.926	2.712	15.0	21.7	2 5	6 7.77	+16 8.2	2.177	2.960	13.6	21.0
162934	2001 <i>OD</i> ₉₃		12 29.8 130°77	6°1/29.5	18		160862	2001 <i>GD</i> ₅		12 29.8 198°30	7°8/31.4	18	
11 27	7 7.83	+44 15.6	2.563	3.353	11.6	20.0	11 27	6 57.33	- 8 9.4	3.231	3.937	11.1	21.2
12 7	7 0.20	+44 36.9	2.494	3.358	9.4	19.8	12 7	6 51.99	- 8 55.2	3.151	3.933	9.8	21.1
12 17	6 50.27	+44 45.0	2.450	3.363	7.3	19.7	12 17	6 45.38	- 9 26.0	3.094	3.929	8.6	21.0
12 27	6 39.00	+44 35.4	2.433	3.368	6.1	19.6	12 27	6 37.97	- 9 39.0	3.064	3.924	7.9	21.0
1 6	6 27.60	+44 6.5	2.446	3.372	6.6	19.7	1 6	6 30.34	- 9 33.3	3.059	3.918	7.9	21.0
1 16	6 17.27	+43 19.7	2.487	3.377	8.3	19.8	1 16	6 23.11	- 9 9.2	3.082	3.912	8.7	21.0
1 26	6 9.02	+42 19.0	2.555	3.381	10.4	19.9	1 26	6 16.84	- 8 29.0	3.130	3.906	10.0	21.1
2 5	6 3.43	+41 9.7	2.646	3.385	12.5	20.1	2 5	6 11.97	- 7 36.1	3.201	3.898	11.3	21.2
178731	2000 <i>SM</i> ₃₄₀		12 29.8 173°64	1°6/30.1	18		129726	1998 <i>VP</i> ₃₇		12 29.8 124°22	4°2/30.3	18	
11 27	7 1.07	+17 8.7	2.319	3.139	11.7	20.8	11 27	7 3.01	+11 26.7	2.171	2.978	12.8	19.8
12 7	6 55.15	+17 16.7	2.241	3.141	8.7	20.6	12 7	6 56.45	+10 51.3	2.107	2.994	9.8	19.6
12 17	6 47.36	+17 30.3	2.189	3.143	5.3	20.4	12 17	6 48.04	+10 24.6	2.069	3.009	6.7	19.5
12 27	6 38.39	+17 48.3	2.165	3.144	2.0	20.2	12 27	6 38.55	+10 7.6	2.059	3.024	4.4	19.4
1 6	6 29.13	+18 9.4	2.172	3.145	3.1	20.3	1 6	6 28.93	+10 0.8	2.079	3.038	5.0	19.4
1 16	6 20.50	+18 32.2	2.210	3.146	6.6	20.5	1 16	6 20.11	+10 3.8	2.129	3.051	7.7	19.6
1 26	6 13.37	+18 55.8	2.275	3.146	9.8	20.7	1 26	6 12.92	+10 15.2	2.205	3.064	10.6	19.8
2 5	6 8.32	+19 19.3	2.364	3.146	12.6	20.9	2 5	6 7.90	+10 33.1	2.305	3.077	13.2	20.0
175967	2000 <i>KL</i> ₅₄		12 29.8 192°98	3°0/30.6	18		427120	2014 <i>UA</i> ₉₆		12 29.8 62°90	0°1/29.8	18	
11 27	7 1.13	+11 56.4	2.394	3.201	11.8	20.5	11 27	7 0.99	+21 58.8	2.067	2.899	12.4	21.4
12 7	6 55.16	+12 9.6	2.311	3.199	9.0	20.3	12 7	6 55.20	+22 12.6	2.007	2.915	9.0	21.2
12 17	6 47.37	+12 32.3	2.252	3.197	5.9	20.2	12 17	6 47.40	+22 28.8	1.972	2.932	5.2	21.0
12 27	6 38.40	+13 3.9	2.223	3.194	3.3	20.0	12 27	6 38.42	+22 45.2	1.966	2.948	1.2	20.8
1 6	6 29.10	+13 42.9	2.224	3.191	3.9	20.0	1 6	6 29.26	+23 0.1	1.989	2.965	2.9	21.0
1 16	6 20.35	+14 27.1	2.256	3.187	6.8	20.2	1 16	6 20.96	+23 12.5	2.042	2.981	6.8	21.2
1 26	6 12.99	+15 14.4	2.317	3.183	9.9	20.4	1 26	6 14.40	+23 22.3	2.121	2.998	10.2	21.5
2 5	6 7.62	+16 2.6	2.401	3.178	12.6	20.6	2 5	6 10.14	+23 30.1	2.224	3.014	13.1	21.7
259480	2003 <i>SN</i> ₂₀₀		12 29.8 42°77	15°3/ 2.5	18		227155	2005 <i>QD</i> ₆		12 29.8 143°77	0°3/29.8	18	
11 27	7 29.16	+56 5.6	1.068	1.860	24.1	19.3	11 27	7 7.56	+23 34.0	1.936	2.761	13.4	21.6
12 7	7 18.41	+56 36.8	1.037	1.883	20.9	19.2	12 7	7 0.13	+23 43.4	1.869	2.774	9.8	21.4
12 17	6 1.33	+56 27.1	1.023	1.907	17.8	19.1	12 17	6 50.32	+23 53.4	1.828	2.786	5.7	21.2
12 27	6 41.29	+55 22.7	1.027	1.931	15.8	19.0	12 27	6 39.07	+24 1.4	1.816	2.798	1.3	20.9
1 6	6 22.59	+53 23.1	1.053	1.957	15.5	19.1	1 6	6 27.59	+24 5.6	1.833	2.808	3.3	21.1
1 16	6 8.50	+50 41.8	1.101	1.983	16.9	19.3	1 16	6 17.13	+24 5.6	1.881	2.818	7.5	21.4
1 26	6 0.44	+47 39.4	1.170	2.010	19.3	19.5	1 26	6 8.72	+24 2.4	1.956	2.827	11.2	21.6
2 5	5 58.20	+44 34.5	1.258	2.037	21.8	19.8	2 5	6 3.02	+23 57.4	2.054	2.835	14.3	21.8
461840	2006 <i>DD</i> ₁₃₈		12 29.8 298°76	2°0/30.2	17		132558	2002 <i>JN</i> ₈₈		12 29.8 169°20	1°8/30.0	18	
11 27	6 59.23	+16 26.4	2.085	2.913	12.5	22.1	11 27	7 3.54	+17 46.1	2.270	3.088	12.0	21.7
12 7	6 54.10	+16 34.7	1.999	2.902	9.4	21.8	12 7	6 56.93	+17 37.9	2.194	3.093	8.9	21.5
12 17	6 46.90	+16 50.2	1.936	2.891	5.8	21.6	12 17	6 48.39	+17 34.1	2.143	3.097	5.4	21.3
12 27	6 38.32	+17 12.0	1.902	2.880	2.4	21.4	12 27	6 38.65	+17 34.0	2.121	3.100	2.1	21.0
1 6	6 29.31	+17 38.5	1.897	2.870	3.5	21.4	1 6	6 28.65	+17 36.8	2.130	3.103	3.3	21.1
1 16	6 20.89	+18 7.9	1.921	2.859	7.2	21.6	1 16	6 19.38	+17 42.1	2.170	3.105	6.8	21.4
1 26	6 14.05	+18 38.8	1.972	2.849	10.8	21.8	1 26	6 11.70	+17 49.3	2.238	3.106	10.1	21.6
2 5	6 9.45	+19 9.9	2.046	2.839	14.0	22.0	2 5	6 6.21	+17 58.3	2.329	3.107	12.9	21.8
33985	2000 <i>NG</i> ₂₅		12 29.8 17°80	5°3/30.3	18		178790	2001 <i>DY</i> ₁		12 29.8 168°69	0°4/29.7	18	
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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
397956	2008 YH ₉₃	12 29.8 258°78	1°2/30.1	18			157853	1998 TL ₁₃	12 29.8 69°71	1°1/29.6	18		
11 27	7 3.23	+16 50.7	1.773	2.602	14.3	21.3	11 27	7 2.08	+25 25.6	2.087	2.919	12.3	20.7
12 7	6 57.42	+17 40.0	1.690	2.595	10.6	21.1	12 7	6 56.02	+25 46.2	2.028	2.936	9.0	20.5
12 17	6 49.02	+18 40.0	1.632	2.589	6.4	20.8	12 17	6 47.89	+26 6.4	1.995	2.954	5.2	20.3
12 27	6 38.85	+19 47.6	1.601	2.582	1.9	20.5	12 27	6 38.54	+26 23.4	1.990	2.971	1.5	20.1
1 6	6 28.05	+20 58.0	1.600	2.575	3.5	20.6	1 6	6 29.03	+26 35.4	2.015	2.989	3.2	20.2
1 16	6 17.95	+22 6.8	1.628	2.568	8.1	20.9	1 16	6 20.42	+26 41.5	2.069	3.006	6.9	20.5
1 26	6 9.79	+23 10.8	1.683	2.561	12.3	21.1	1 26	6 13.61	+26 42.6	2.150	3.024	10.2	20.7
2 5	6 4.40	+24 8.7	1.761	2.554	15.9	21.3	2 5	6 9.17	+26 40.1	2.255	3.041	13.1	20.9
255108	2005 UD ₈₇	12 29.8 55°37	1°1/29.9	18			200170	1999 FL ₅₁	12 29.8 329°68	0°3/29.8	18		
11 27	7 1.25	+19 49.5	1.889	2.723	13.4	20.9	11 27	6 59.65	+24 4.9	1.952	2.791	12.8	19.8
12 7	6 55.60	+19 50.8	1.821	2.729	9.8	20.7	12 7	6 54.59	+24 3.5	1.868	2.780	9.4	19.6
12 17	6 47.74	+19 56.3	1.777	2.735	5.8	20.5	12 17	6 47.26	+24 2.3	1.808	2.768	5.5	19.3
12 27	6 38.52	+20 4.6	1.761	2.742	1.7	20.2	12 27	6 38.45	+23 59.6	1.775	2.758	1.2	19.0
1 6	6 29.03	+20 14.3	1.774	2.749	3.3	20.4	1 6	6 29.23	+23 54.3	1.772	2.747	3.2	19.2
1 16	6 20.40	+20 24.4	1.816	2.756	7.4	20.6	1 16	6 20.75	+23 46.1	1.796	2.737	7.4	19.4
1 26	6 13.62	+20 34.6	1.884	2.763	11.2	20.9	1 26	6 14.06	+23 35.8	1.848	2.728	11.3	19.6
2 5	6 9.34	+20 44.7	1.975	2.770	14.3	21.1	2 5	6 9.85	+23 24.6	1.921	2.719	14.5	19.8
490459	2009 SD ₂₆₆	12 29.8 50°02	8°1/28.9	18			480842	2012 FQ ₆₄	12 29.8 105°18	4°6/29.0	17		
11 27	7 9.84	+38 36.8	1.324	2.162	17.7	20.9	11 27	7 4.53	+35 23.8	2.120	2.943	12.5	21.2
12 7	7 3.29	+39 51.1	1.272	2.171	14.0	20.7	12 7	6 58.15	+36 7.6	2.050	2.946	9.6	21.0
12 17	6 52.76	+40 52.1	1.242	2.181	10.3	20.5	12 17	6 49.31	+36 44.0	2.005	2.949	6.6	20.9
12 27	6 39.67	+41 29.4	1.236	2.191	8.2	20.4	12 27	6 38.90	+37 8.2	1.989	2.952	4.7	20.7
1 6	6 26.13	+41 37.1	1.255	2.201	9.2	20.5	1 6	6 28.14	+37 16.9	2.001	2.955	5.6	20.8
1 16	6 14.35	+41 15.9	1.298	2.212	12.4	20.7	1 16	6 18.30	+37 9.8	2.041	2.958	8.3	21.0
1 26	6 6.07	+40 32.7	1.364	2.223	15.9	21.0	1 26	6 10.49	+36 49.5	2.108	2.961	11.3	21.2
2 5	6 2.06	+39 36.4	1.449	2.234	19.1	21.2	2 5	6 5.41	+36 20.1	2.196	2.963	13.9	21.4
420208	2011 GW ₈₇	12 29.8 326°97	0°8/30.0	18			489438	2006 WN ₉₉	12 29.8 30°89	1°6/29.9	18		
11 27	6 59.31	+18 33.5	2.069	2.900	12.5	20.3	11 27	7 1.57	+19 11.9	1.776	2.612	14.0	21.4
12 7	6 54.21	+19 7.3	1.986	2.893	9.2	20.1	12 7	6 55.97	+19 1.2	1.706	2.615	10.3	21.2
12 17	6 47.00	+19 47.9	1.928	2.886	5.4	19.9	12 17	6 48.03	+18 54.9	1.660	2.618	6.2	21.0
12 27	6 38.38	+20 33.2	1.898	2.880	1.5	19.6	12 27	6 38.62	+18 52.4	1.641	2.621	2.1	20.7
1 6	6 29.32	+21 20.0	1.898	2.874	3.1	19.7	1 6	6 28.91	+18 52.7	1.650	2.624	3.6	20.8
1 16	6 20.87	+22 5.7	1.928	2.868	7.1	19.9	1 16	6 20.10	+18 55.3	1.688	2.628	7.9	21.1
1 26	6 14.02	+22 48.6	1.984	2.862	10.7	20.1	1 26	6 13.26	+19 0.0	1.752	2.632	11.8	21.3
2 5	6 9.47	+23 27.6	2.064	2.857	13.9	20.3	2 5	6 9.03	+19 6.4	1.838	2.636	15.1	21.6
133739	2003 VT ₆	12 29.8 258°68	1°1/29.6	18			336803	2011 CH ₁₁₁	12 29.8 209°71	0°0/29.7	18		
11 27	7 0.75	+25 54.7	2.468	3.296	10.8	20.7	11 27	7 6.47	+23 11.6	1.741	2.574	14.4	21.6
12 7	6 55.04	+26 11.5	2.377	3.282	8.0	20.5	12 7	6 59.75	+23 8.2	1.661	2.570	10.6	21.3
12 17	6 47.39	+26 28.0	2.311	3.269	4.7	20.3	12 17	6 50.34	+23 5.6	1.606	2.565	6.2	21.1
12 27	6 38.46	+26 41.7	2.274	3.255	1.4	20.0	12 27	6 39.15	+23 1.7	1.577	2.559	1.4	20.7
1 6	6 29.13	+26 50.8	2.268	3.241	2.9	20.1	1 6	6 27.52	+22 54.9	1.578	2.554	3.6	20.9
1 16	6 20.37	+26 54.6	2.292	3.227	6.4	20.3	1 16	6 16.82	+22 45.3	1.608	2.547	8.3	21.1
1 26	6 13.06	+26 53.6	2.344	3.213	9.7	20.5	1 26	6 8.32	+22 34.0	1.664	2.540	12.5	21.4
2 5	6 7.85	+26 48.9	2.420	3.199	12.5	20.7	2 5	6 2.78	+22 22.8	1.742	2.533	16.1	21.6
488349	2016 WT ₄	12 29.8 49°57	2°4/30.0	17			122031	2000 GU ₆₁	12 29.8 170°17	1°2/29.6	18		
11 27	7 4.57	+18 30.2	1.283	2.132	17.5	21.0	11 27	7 6.51	+25 28.6	1.909	2.738	13.4	20.8
12 7	6 58.56	+18 11.1	1.236	2.150	12.9	20.8	12 7	6 59.59	+25 51.3	1.836	2.742	9.9	20.6
12 17	6 49.59	+17 58.7	1.210	2.169	7.8	20.5	12 17	6 50.15	+26 13.7	1.787	2.745	5.8	20.3
12 27	6 38.92	+17 52.7	1.209	2.189	2.9	20.3	12 27	6 39.10	+26 32.6	1.767	2.748	1.7	20.0
1 6	6 28.14	+17 51.9	1.234	2.209	4.6	20.5	1 6	6 27.68	+26 45.1	1.776	2.750	3.6	20.2
1 16	6 18.82	+17 55.7	1.286	2.229	9.5	20.8	1 16	6 17.18	+26 50.5	1.815	2.751	7.8	20.4
1 26	6 12.17	+18 3.3	1.362	2.250	14.0	21.1	1 26	6 8.75	+26 49.7	1.881	2.752	11.6	20.7
2 5	6 8.83	+18 13.9	1.458	2.271	17.6	21.4	2 5	6 3.11	+26 44.7	1.970	2.752	14.8	20.9
359472	2010 NZ ₁₁₄	12 29.8 177°86	6°0/30.9	18			254708	2005 NU ₁₆	12 29.8 96°62	0°0/29.7	18		
11 27	7 0.08	+ 4 57.9	2.218	3.008	13.1	21.2	11 27	7 2.95	+23 20.1	1.905	2.739	13.3	21.0
12 7	6 54.44	+ 4 31.8	2.142	3.009	10.6	21.0	12 7	6 56.89	+23 13.4	1.832	2.742	9.7	20.7
12 17	6 46.97	+ 4 19.3	2.090	3.010	8.0	20.9	12 17	6 48.53	+23 7.2	1.784	2.744	5.6	20.5
12 27	6 38.35	+ 4 22.1	2.065	3.011	6.2	20.7	12 27	6 38.73	+22 59.8	1.764	2.746	1.3	20.2
1 6	6 29.45	+ 4 40.5	2.068	3.011	6.4	20.8	1 6	6 28.65	+22 50.5	1.773	2.748	3.2	20.4
1 16	6 21.17	+ 5 13.0	2.100	3.011	8.5	20.9	1 16	6 19.46	+22 39.3	1.811	2.751	7.5	20.6
1 26	6 14.36	+ 5 56.8	2.159	3.010	11.1	21.1	1 26	6 12.22	+22 27.1	1.876	2.753	11.3	20.9
2 5	6 9.58	+ 6 48.5	2.240	3.009	13.6	21.2	2 5	6 7.56	+22 15.1	1.963	2.755	14.5	21.1
352896	2008 YK ₆₂	12 29.8 247°33	2°3/30.2	18			421069	2013 QU ₂₃	12 29.8 114°34	3°5/29.4	17		
11 27	7 2.34	+16 0.7	1.914	2.739	13.6	21.0	11 27	7 3.61	+34 36.8	2.476	3.294	11.1	21.8
12 7	6 56.55	+16 7.4	1.827	2.729	10.2	20.7	12 7	6 57.04	+34 57.2	2.408	3.303	8.4	21.7
12 17	6 48.43	+16 22.1	1.764	2.718	6.3	20.5	12 17	6 48.47	+35 10.8	2.367	3.312	5.6	21.5
12 27	6 38.71	+16 43.9	1.728	2.706	2.7	20.2	12 27	6 38.70	+35 14.1	2.354	3.321	3.6	21.4
1 6	6 28.48	+17 11.1	1.722	2.695	3.9	20.3	1 6	6 28.75	+35 5.7	2.371	3.330	4.4	21.5
1 16	6 18.91	+17 41.7	1.745	2.683	7.9	20.5	1 16	6 19.64	+34 45.8	2.417	3.338	7.0	21.7
1 26	6 11.11	+18 14.2	1.795	2.670	11.8	20.7	1 26	6 12.27	+34 16.7	2.491	3.347	9.7	21.8
2 5	6 5.83	+18 47.2	1.867	2.658	15.2	20.9	2 5	6 7.20	+33 41.8	2.589	3.355	12.1	22.0
4285	Hulkower	12 29.8 238°76	5°5/30.9	18 R			248262	Liuxiaobo	12 29.8 264°79	3°1/28.9	18		
11 27	7 0.72	+ 6 30.4	2.148	2.945	13.3	17.4	11 27	7 1.87	+31 26.1	2.514			

EPHEMERIDES

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
5613	Donskoj		12 29.8	28°61'	1°0'	29.7 18	328448	2008 <i>TN</i> ₁₀₀		12 29.8	110°82'	10°6'	1.6 18
11 27	7 0.75	+25 4.9	1.786	2.628	13.6	17.0	11 27	6 58.41	-12 52.5	2.572	3.260	14.0	20.7
12 7	6 55.40	+25 18.8	1.725	2.638	10.0	16.8	12 7	6 53.00	-13 55.2	2.516	3.273	12.6	20.6
12 17	6 47.69	+25 32.8	1.688	2.648	5.8	16.6	12 17	6 46.06	-14 36.5	2.481	3.285	11.4	20.6
12 27	6 38.54	+25 44.0	1.677	2.659	1.5	16.3	12 27	6 38.20	-14 52.6	2.468	3.296	10.7	20.5
1 6	6 29.17	+25 50.6	1.696	2.671	3.4	16.5	1 6	6 30.17	-14 42.4	2.480	3.308	10.6	20.5
1 16	6 20.77	+25 52.0	1.742	2.683	7.6	16.8	1 16	6 22.73	-14 6.9	2.516	3.319	11.3	20.6
1 26	6 14.40	+25 49.0	1.814	2.695	11.4	17.0	1 26	6 16.58	-13 9.8	2.574	3.330	12.4	20.7
2 5	6 10.67	+25 43.0	1.909	2.708	14.6	17.3	2 5	6 12.18	-11 56.4	2.654	3.341	13.6	20.8
240708	2005 <i>GP</i> ₇₈		12 29.8	177°14'	4°0'	30.9 18	72010	2000 <i>XZ</i> ₈		12 29.8	68°49'	6°4'	29.2 18
11 27	7 1.69	+9 37.7	2.123	2.928	13.1	20.6	11 27	7 11.00	+34 52.3	1.266	2.109	18.1	19.0
12 7	6 55.76	+9 50.5	2.045	2.930	10.1	20.4	12 7	7 3.95	+35 54.7	1.219	2.126	13.8	18.8
12 17	6 47.82	+10 15.7	1.991	2.931	6.9	20.2	12 17	6 53.05	+36 46.6	1.194	2.143	9.4	18.6
12 27	6 38.59	+10 53.2	1.965	2.931	4.3	20.1	12 27	6 39.78	+37 18.8	1.194	2.160	6.5	18.5
1 6	6 29.01	+11 41.0	1.969	2.932	4.7	20.1	1 6	6 26.27	+37 26.0	1.219	2.178	7.7	18.6
1 16	6 20.07	+12 36.4	2.002	2.932	7.6	20.3	1 16	6 14.60	+37 9.3	1.270	2.195	11.5	18.8
1 26	6 12.70	+13 36.3	2.064	2.931	10.9	20.5	1 26	6 6.41	+36 34.9	1.344	2.213	15.4	19.1
2 5	6 7.54	+14 37.7	2.149	2.930	13.8	20.7	2 5	6 2.38	+35 50.4	1.437	2.230	18.8	19.4
227125	2005 <i>ON</i> ₃		12 29.8	116°81'	0°6'	29.7 18	492975	2014 <i>SP</i> ₁₄₈		12 29.8	354°40'	1°8'	30.3 18
11 27	7 8.40	+23 15.7	1.809	2.636	14.1	21.0	11 27	6 59.07	+15 57.0	2.093	2.919	12.5	20.5
12 7	7 0.84	+23 45.5	1.752	2.658	10.3	20.8	12 7	6 53.95	+16 20.4	2.015	2.918	9.3	20.3
12 17	6 50.78	+24 16.7	1.720	2.679	6.0	20.6	12 17	6 46.83	+16 51.9	1.962	2.917	5.7	20.0
12 27	6 39.23	+24 45.9	1.717	2.699	1.4	20.3	12 27	6 38.40	+17 30.1	1.937	2.916	2.3	19.8
1 6	6 27.50	+25 9.9	1.744	2.718	3.4	20.5	1 6	6 29.62	+18 12.6	1.942	2.915	3.3	19.9
1 16	6 16.89	+25 27.5	1.800	2.737	7.8	20.8	1 16	6 21.47	+18 57.0	1.976	2.915	7.0	20.1
1 26	6 8.51	+25 39.3	1.883	2.754	11.6	21.1	1 26	6 14.89	+19 41.1	2.037	2.915	10.5	20.3
2 5	6 2.98	+25 46.6	1.989	2.771	14.7	21.3	2 5	6 10.51	+20 23.4	2.122	2.915	13.5	20.5
327789	2006 <i>UM</i> ₂₂₀		12 29.8	113°37'	3°0'	29.5 18	92538	2000 <i>OF</i> ₁₈		12 29.8	154°77'	0°8'	29.7 18
11 27	7 11.30	+30 6.5	1.641	2.471	15.2	21.5	11 27	7 6.11	+24 19.1	2.023	2.849	12.9	20.4
12 7	7 3.24	+30 32.4	1.587	2.492	11.3	21.3	12 7	6 59.13	+24 42.0	1.952	2.858	9.4	20.2
12 17	6 52.25	+30 52.8	1.557	2.511	6.9	21.1	12 17	6 49.83	+25 5.6	1.907	2.865	5.5	19.9
12 27	6 39.55	+31 2.8	1.554	2.530	3.3	20.9	12 27	6 39.07	+25 26.7	1.890	2.872	1.4	19.7
1 6	6 26.73	+30 59.6	1.580	2.549	4.8	21.0	1 6	6 28.00	+25 43.0	1.904	2.878	3.3	19.8
1 16	6 15.33	+30 43.9	1.635	2.567	8.8	21.3	1 16	6 17.82	+25 53.3	1.948	2.884	7.3	20.1
1 26	6 6.61	+30 19.3	1.715	2.584	12.7	21.6	1 26	6 9.57	+25 58.3	2.019	2.889	11.0	20.3
2 5	6 1.20	+29 50.1	1.818	2.600	15.9	21.8	2 5	6 3.92	+25 59.5	2.113	2.893	14.0	20.5
57632	2001 <i>TB</i> ₁₈₂		12 29.8	266°49'	2°0'	29.6 18	454069	2012 <i>OX</i> ₂		12 29.8	107°45'	0°0'	29.6 17
11 27	7 5.94	+27 16.7	1.687	2.524	14.5	19.7	11 27	7 20.52	+29 49.1	1.012	1.859	21.3	20.7
12 7	6 59.75	+27 38.4	1.597	2.507	10.8	19.4	12 7	7 11.07	+28 5.6	0.951	1.865	15.8	20.4
12 17	6 50.56	+27 58.9	1.530	2.489	6.5	19.1	12 17	6 57.15	+26 4.4	0.911	1.872	9.3	20.1
12 27	6 39.27	+28 13.9	1.491	2.471	2.4	18.8	12 27	6 40.67	+23 47.1	0.896	1.878	2.1	19.7
1 6	6 27.24	+28 20.1	1.480	2.453	4.3	18.9	1 6	6 24.25	+21 22.1	0.908	1.884	5.3	19.9
1 16	6 16.05	+28 16.4	1.497	2.435	9.0	19.1	1 16	6 10.37	+19 2.6	0.947	1.890	12.1	20.3
1 26	6 7.14	+28 4.4	1.540	2.416	13.4	19.3	1 26	6 0.71	+17 0.1	1.010	1.895	17.9	20.6
2 5	6 1.44	+27 47.3	1.604	2.397	17.2	19.5	2 5	5 55.82	+15 20.2	1.091	1.901	22.5	21.0
510428	2011 <i>UU</i> ₃₃₄		12 29.8	118°49'	5°2'	30.9 15	115440	2003 <i>TV</i> ₆		12 29.8	53°81'	2°6'	29.1 18
11 27	7 3.25	+6 34.1	2.259	3.048	13.0	22.9	11 27	6 59.20	+30 39.5	2.783	3.607	9.8	18.2
12 7	6 56.54	+6 18.4	2.200	3.070	10.2	22.7	12 7	6 53.71	+31 26.0	2.720	3.621	7.3	18.1
12 17	6 48.09	+6 15.2	2.167	3.093	7.4	22.6	12 17	6 46.54	+32 9.7	2.684	3.635	4.6	17.9
12 27	6 38.63	+6 25.5	2.161	3.114	5.4	22.5	12 27	6 38.34	+32 47.2	2.677	3.649	2.7	17.8
1 6	6 29.05	+6 48.5	2.185	3.134	5.6	22.5	1 6	6 29.91	+33 16.2	2.701	3.664	3.6	17.9
1 16	6 20.26	+7 22.5	2.239	3.154	7.8	22.7	1 16	6 22.09	+33 35.7	2.755	3.678	6.1	18.1
1 26	6 13.02	+8 4.7	2.321	3.173	10.4	22.9	1 26	6 15.63	+33 46.2	2.836	3.693	8.6	18.3
2 5	6 7.85	+8 52.0	2.426	3.191	12.8	23.1	2 5	6 11.07	+33 49.4	2.942	3.708	10.8	18.5
250493	2004 <i>FN</i> ₁₃		12 29.8	315°33'	8°4'	30.6 17	363498	2003 <i>TD</i> ₅₁		12 29.8	198°83'	0°2'	29.8 18
11 27	6 59.31	+3 34.1	1.715	2.517	15.9	20.1	11 27	7 2.10	+24 57.0	2.305	3.132	11.5	20.3
12 7	6 54.43	+2 36.6	1.636	2.507	13.1	19.9	12 7	6 55.97	+24 40.2	2.225	3.131	8.4	20.1
12 17	6 47.24	+1 55.6	1.580	2.497	10.3	19.7	12 17	6 47.90	+24 21.8	2.172	3.131	4.9	19.9
12 27	6 38.49	+1 35.5	1.548	2.487	8.5	19.6	12 27	6 38.64	+24 0.9	2.148	3.130	1.1	19.6
1 6	6 29.29	+1 38.3	1.542	2.478	8.9	19.6	1 6	6 29.16	+23 37.1	2.154	3.129	2.8	19.7
1 16	6 20.80	+2 3.5	1.562	2.468	11.1	19.7	1 16	6 20.43	+23 11.1	2.190	3.128	6.5	20.0
1 26	6 14.11	+2 47.5	1.605	2.460	14.1	19.9	1 26	6 13.33	+22 44.4	2.255	3.127	9.8	20.2
2 5	6 9.96	+3 45.2	1.669	2.451	17.1	20.1	2 5	6 8.43	+22 18.5	2.343	3.126	12.7	20.4
139542	2001 <i>QH</i> ₄₀		12 29.8	64°86'	0°0'	29.6 18	171074	2005 <i>EL</i> ₁₇₁		12 29.8	176°19'	0°5'	29.9 18
11 27	7 4.88	+22 53.8	1.695	2.531	14.5	20.1	11 27	7 3.97	+22 6.1	1.971	2.801	13.1	20.5
12 7	6 58.26	+23 1.2	1.647	2.557	10.5	19.9	12 7	6 57.60	+21 57.4	1.895	2.802	9.6	20.3
12 17	6 49.25	+23 10.1	1.623	2.583	6.1	19.7	12 17	6 48.96	+21 50.1	1.844	2.803	5.6	20.0
12 27	6 38.88	+23 18.0	1.626	2.609	1.3	19.4	12 27	6 38.90	+21 42.7	1.822	2.803	1.4	19.7
1 6	6 28.47	+23 23.3	1.659	2.634	3.4	19.6	1 6	6 28.53	+21 34.6	1.829	2.804	3.2	19.9
1 16	6 19.26	+23 25.6	1.720	2.660	7.7	20.0	1 16	6 19.03	+21 25.6	1.865	2.804	7.4	20.1
1 26	6 12.26	+23 25.4	1.807	2.686	11.6	20.2	1 26	6 11.40	+21 16.4	1.929	2.804	11.1	20.4
2 5	6 8.05	+23 23.9	1.916	2.711	14.7	20.5	2 5	6 6.30	+21 8.1	2.015	2.803	14.3	20.6
204491	2005 <i>BR</i> ₂₈		12 29.8	291°31'	2°4'	30.0 18	294886	2008 <i>DV</i> ₇		12 29.8	187°69'	2°3'	29.6 17
11 27	7 2.14	+17 43.8	1.663	2.49									

EPHEMERIDES

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	
157300	2004 <i>SD</i> ₁₅	12 29.8 131°75' 1°5'/30.1 18						77494	2001 <i>HM</i> ₃₆	12 29.8 204°86' 3°3'/29.2 18				
11 27	7 5.15	+17 29.7	1.952	2.774	13.5	21.1	11 27	7 2.74	+33 30.5	2.642	3.460	10.5	19.6	
12 7	6 58.37	+17 48.9	1.886	2.788	9.9	20.9	12 7	6 56.48	+34 3.8	2.561	3.457	7.9	19.4	
12 17	6 49.36	+18 14.5	1.846	2.801	6.0	20.7	12 17	6 48.26	+34 32.1	2.507	3.453	5.3	19.2	
12 27	6 38.99	+18 44.6	1.834	2.814	2.0	20.5	12 27	6 38.77	+34 51.8	2.481	3.449	3.4	19.1	
1 6	6 28.35	+19 16.8	1.852	2.826	3.4	20.6	1 6	6 28.95	+35 0.6	2.486	3.445	4.3	19.1	
1 16	6 18.60	+19 49.1	1.901	2.838	7.4	20.9	1 16	6 19.78	+34 58.0	2.520	3.440	6.8	19.3	
1 26	6 10.74	+20 20.0	1.976	2.849	11.0	21.1	1 26	6 12.15	+34 45.5	2.582	3.435	9.5	19.5	
2 5	6 5.39	+20 49.1	2.075	2.859	14.1	21.4	2 5	6 6.69	+34 25.6	2.669	3.430	11.9	19.6	
464044	2014 <i>WL</i> ₁₉₄	12 29.8 117°71' 2°3'/29.6 17						401445	2013 <i>CJ</i> ₁₃₅	12 29.8 238°08' 0°0'/29.7 18				
11 27	7 2.81	+30 44.8	2.410	3.234	11.2	21.7	11 27	7 3.39	+21 54.9	1.876	2.709	13.5	21.6	
12 7	6 56.48	+30 54.2	2.340	3.241	8.3	21.5	12 7	6 57.45	+22 18.1	1.794	2.702	9.9	21.4	
12 17	6 48.18	+30 58.9	2.295	3.248	5.1	21.3	12 17	6 49.04	+22 45.1	1.736	2.695	5.8	21.1	
12 27	6 38.72	+30 56.4	2.279	3.255	2.5	21.1	12 27	6 38.98	+23 12.9	1.706	2.688	1.3	20.8	
1 6	6 29.08	+30 45.5	2.293	3.262	3.6	21.2	1 6	6 28.41	+23 38.9	1.706	2.681	3.3	20.9	
1 16	6 20.23	+30 26.4	2.338	3.268	6.6	21.4	1 16	6 18.60	+24 1.1	1.734	2.674	7.8	21.2	
1 26	6 13.06	+30 1.1	2.410	3.275	9.6	21.6	1 26	6 10.71	+24 19.2	1.790	2.666	11.8	21.4	
2 5	6 8.12	+29 32.0	2.506	3.281	12.2	21.8	2 5	6 5.49	+24 33.7	1.867	2.659	15.2	21.6	
12568	<i>Kuffner</i>	12 29.8 204°28' 0°5'/29.7 18						399438	2002 <i>AE</i> ₁₃₀	12 29.8 18°47' 14°8'/ 1.4 18				
11 27	7 0.76	+24 9.0	2.393	3.221	11.1	18.2	11 27	7 22.37	+51 40.1	0.906	1.731	25.0	19.4	
12 7	6 55.02	+24 21.6	2.313	3.219	8.1	18.0	12 7	7 14.50	+52 7.4	0.858	1.734	21.3	19.2	
12 17	6 47.39	+24 34.7	2.259	3.217	4.7	17.8	12 17	6 59.89	+51 55.7	0.826	1.738	17.7	19.0	
12 27	6 38.56	+24 46.3	2.234	3.215	1.1	17.5	12 27	6 41.34	+50 48.0	0.812	1.743	15.2	18.9	
1 6	6 29.44	+24 54.9	2.239	3.213	2.8	17.7	1 6	6 23.11	+48 40.6	0.818	1.750	15.1	18.9	
1 16	6 20.96	+24 59.8	2.274	3.211	6.3	17.9	1 16	6 8.97	+45 46.0	0.845	1.757	17.5	19.1	
1 26	6 13.98	+25 1.3	2.337	3.209	9.6	18.1	1 26	6 0.92	+42 27.8	0.893	1.765	21.0	19.3	
2 5	6 9.10	+25 0.3	2.424	3.206	12.3	18.3	2 5	5 59.06	+39 8.2	0.958	1.774	24.5	19.6	
74048	1998 <i>HP</i> ₁₂₁	12 29.8 281°19' 0°2'/29.9 18						451290	2010 <i>TG</i> ₈	12 29.8 358°72' 11°5'/31.1 17				
11 27	7 4.54	+20 42.9	1.422	2.267	16.3	19.6	11 27	6 56.79	- 0 41.9	1.423	2.227	18.5	20.6	
12 7	6 59.03	+21 13.4	1.340	2.255	12.1	19.3	12 7	6 52.89	- 2 2.8	1.361	2.223	15.8	20.4	
12 17	6 50.31	+21 51.4	1.281	2.242	7.2	19.0	12 17	6 46.46	- 3 0.2	1.318	2.220	13.2	20.2	
12 27	6 39.30	+22 33.2	1.248	2.230	1.6	18.6	12 27	6 38.41	- 3 27.5	1.297	2.219	11.6	20.1	
1 6	6 27.48	+23 14.3	1.242	2.218	4.1	18.8	1 6	6 29.95	- 3 21.9	1.300	2.219	11.8	20.1	
1 16	6 16.55	+23 51.4	1.263	2.206	9.6	19.1	1 16	6 22.38	- 2 44.6	1.324	2.220	13.6	20.2	
1 26	6 8.11	+24 23.0	1.308	2.194	14.6	19.3	1 26	6 16.87	- 1 41.2	1.371	2.222	16.3	20.4	
2 5	6 3.14	+24 49.5	1.374	2.182	18.8	19.5	2 5	6 14.15	- 0 19.8	1.436	2.226	19.0	20.6	
191877	2004 <i>XQ</i> ₁₀₁	12 29.8 354°73' 1°4'/29.7 17						372244	2008 <i>UL</i> ₁₃₇	12 29.8 148°49' 2°8'/30.3 18				
11 27	7 2.09	+27 47.5	1.971	2.807	12.8	20.0	11 27	6 58.97	+12 58.9	2.952	3.756	9.9	22.0	
12 7	6 56.31	+27 41.4	1.896	2.805	9.4	19.8	12 7	6 53.26	+12 41.2	2.878	3.765	7.5	21.8	
12 17	6 48.24	+27 32.0	1.845	2.804	5.6	19.5	12 17	6 46.19	+12 29.4	2.831	3.774	4.9	21.7	
12 27	6 38.76	+27 17.1	1.822	2.803	1.8	19.3	12 27	6 38.30	+12 23.8	2.813	3.782	3.0	21.5	
1 6	6 28.99	+26 55.8	1.828	2.802	3.4	19.4	1 6	6 30.26	+12 24.2	2.827	3.790	3.5	21.6	
1 16	6 20.11	+26 28.9	1.863	2.801	7.4	19.6	1 16	6 22.74	+12 30.2	2.871	3.797	5.7	21.7	
1 26	6 13.16	+25 58.4	1.924	2.801	11.1	19.8	1 26	6 16.36	+12 41.0	2.944	3.804	8.2	21.9	
2 5	6 8.77	+25 26.9	2.009	2.801	14.2	20.1	2 5	6 11.55	+12 55.5	3.042	3.811	10.4	22.1	
43254	2000 <i>CE</i> ₃₅	12 29.8 136°73' 1°5'/30.0 18						171697	2000 <i>SG</i> ₁₃₈	12 29.8 105°79' 0°9'/29.9 18				
11 27	7 2.78	+19 3.8	1.882	2.712	13.5	19.4	11 27	7 9.37	+21 21.8	1.481	2.317	16.3	20.4	
12 7	6 56.80	+19 0.1	1.810	2.716	10.0	19.2	12 7	7 1.88	+21 14.6	1.427	2.336	11.9	20.1	
12 17	6 48.53	+19 0.9	1.762	2.719	6.0	19.0	12 17	6 51.53	+21 10.1	1.396	2.355	7.0	19.9	
12 27	6 38.83	+19 5.2	1.742	2.722	2.0	18.7	12 27	6 39.51	+21 6.6	1.392	2.374	1.8	19.6	
1 6	6 28.82	+19 11.8	1.751	2.726	3.5	18.8	1 6	6 27.36	+21 2.6	1.416	2.392	3.9	19.8	
1 16	6 19.66	+19 19.9	1.789	2.728	7.6	19.1	1 16	6 16.61	+20 58.1	1.469	2.409	8.8	20.1	
1 26	6 12.39	+19 29.0	1.854	2.731	11.4	19.3	1 26	6 8.48	+20 53.9	1.546	2.426	13.1	20.4	
2 5	6 7.66	+19 39.1	1.941	2.734	14.6	19.5	2 5	6 3.59	+20 50.9	1.646	2.442	16.7	20.7	
319026	2005 <i>VM</i> ₁₈	12 29.8 185°11' 0°5'/29.9 17						193188	2000 <i>QQ</i> ₅₆	12 29.8 75°28' 0°3'/29.9 18				
11 27	7 1.70	+21 30.6	2.093	2.923	12.4	22.0	11 27	7 6.52	+21 58.9	1.531	2.370	15.7	20.9	
12 7	6 55.88	+21 33.6	2.016	2.923	9.1	21.8	12 7	6 59.72	+22 3.3	1.481	2.392	11.4	20.7	
12 17	6 47.95	+21 39.0	1.964	2.923	5.3	21.5	12 17	6 50.24	+22 10.3	1.454	2.414	6.6	20.4	
12 27	6 38.70	+21 45.3	1.941	2.923	1.3	21.2	12 27	6 39.22	+22 17.5	1.454	2.436	1.5	20.1	
1 6	6 29.13	+21 51.0	1.947	2.923	3.0	21.4	1 6	6 28.10	+22 23.0	1.483	2.458	3.6	20.4	
1 16	6 20.31	+21 55.6	1.983	2.922	7.0	21.6	1 16	6 18.29	+22 26.3	1.539	2.480	8.4	20.7	
1 26	6 13.19	+21 59.1	2.046	2.922	10.6	21.9	1 26	6 10.94	+22 27.8	1.621	2.502	12.5	21.0	
2 5	6 8.41	+22 2.0	2.132	2.921	13.6	22.1	2 5	6 6.64	+22 28.7	1.724	2.523	15.9	21.3	
281165	2007 <i>EX</i> ₂₄	12 29.8 211°03' 1°0'/29.7 18						81925	2000 <i>NY</i> ₂₅	12 29.8 174°23' 1°1'/29.7 18				
11 27	7 6.29	+25 17.7	2.007	2.834	13.0	21.6	11 27	7 4.34	+27 17.1	2.417	3.239	11.2	20.0	
12 7	6 59.45	+25 31.2	1.922	2.828	9.6	21.4	12 7	6 57.57	+27 15.3	2.339	3.241	8.2	19.8	
12 17	6 50.15	+25 44.3	1.862	2.820	5.6	21.2	12 17	6 48.84	+27 10.8	2.287	3.243	4.9	19.6	
12 27	6 39.21	+25 54.1	1.831	2.813	1.5	20.9	12 27	6 38.92	+27 1.7	2.264	3.245	1.5	19.3	
1 6	6 27.81	+25 58.5	1.830	2.804	3.4	21.0	1 6	6 28.78	+26 47.0	2.273	3.246	3.0	19.4	
1 16	6 17.20	+25 56.8	1.858	2.795	7.6	21.2	1 16	6 19.40	+26 27.1	2.312	3.247	6.4	19.7	
1 26	6 8.53	+25 50.1	1.914	2.785	11.4	21.4	1 26	6 11.65	+26 3.5	2.380	3.247	9.6	19.9	
2 5	6 2.54	+25 40.3	1.993	2.774	14.7	21.6	2 5	6 6.13	+25 38.3	2.471	3.246	12.3	20.1	
447533	2006 <i>SW</i> ₂₁₆	12 29.8 18°36' 7°9'/27.9 17						68196	2001 <i>BP</i> ₆₅	12 29.8 221°20' 0°0'/29.8 18				
11 27	7 5.30	+37 32.0	1.478	2.316	16.2	20.5	11 27	7 1.91	+23 41.6	2.333	3.160	11.4	18.9	

EPHEMERIDES

12 29.8

12 29.8

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
195899	2002 <i>RP</i> ₃₉		12 29.8	20°08'	7°0'/31.9	17	489869	2008 <i>GM</i> ₆₈		12 29.8	303°96'	3°9'/28.9	17
11 27	6 57.31	+ 4 33.8	1.489	2.307	17.1	18.3	11 27	7 3.80	+29 52.0	1.748	2.586	14.1	21.9
12 7	6 53.04	+ 4 35.4	1.437	2.322	13.6	18.1	12 7	6 58.48	+30 53.1	1.647	2.556	10.7	21.6
12 17	6 46.43	+ 4 58.7	1.407	2.338	10.1	17.9	12 17	6 50.09	+31 54.8	1.570	2.525	6.9	21.3
12 27	6 38.40	+ 5 44.5	1.401	2.356	7.4	17.8	12 27	6 39.37	+32 50.6	1.521	2.495	4.0	21.1
1 6	6 30.15	+ 6 50.1	1.420	2.375	7.4	17.9	1 6	6 27.61	+33 34.4	1.499	2.464	5.6	21.1
1 16	6 22.89	+ 8 10.4	1.466	2.394	9.9	18.1	1 16	6 16.38	+34 2.7	1.505	2.434	9.7	21.3
1 26	6 17.64	+ 9 39.1	1.536	2.415	13.2	18.3	1 26	6 7.27	+34 15.5	1.536	2.404	13.9	21.4
2 5	6 15.03	+11 9.8	1.628	2.437	16.2	18.6	2 5	6 1.41	+34 16.1	1.588	2.374	17.6	21.6
408193	2013 <i>EA</i> ₂₅		12 29.8	66°84'	1°3'/29.7	18	300535	2007 <i>TC</i> ₂₃₈		12 29.8	143°37'	7°7'/31.3	18
11 27	7 4.50	+25 57.4	1.704	2.543	14.3	21.1	11 27	7 1.72	+ 2 2.1	1.933	2.717	15.0	21.5
12 7	6 58.24	+26 9.9	1.645	2.556	10.5	20.9	12 7	6 55.89	+ 1 25.8	1.865	2.723	12.3	21.4
12 17	6 49.43	+26 21.3	1.609	2.569	6.1	20.7	12 17	6 47.98	+ 1 7.0	1.819	2.729	9.7	21.2
12 27	6 39.07	+26 28.5	1.601	2.582	1.8	20.4	12 27	6 38.79	+ 1 8.5	1.800	2.734	7.9	21.1
1 6	6 28.51	+26 29.4	1.621	2.596	3.7	20.6	1 6	6 29.32	+ 1 30.8	1.807	2.739	8.1	21.1
1 16	6 19.07	+26 24.1	1.670	2.609	8.0	20.9	1 16	6 20.60	+ 2 11.9	1.842	2.744	10.0	21.3
1 26	6 11.86	+26 13.8	1.744	2.623	11.9	21.1	1 26	6 13.58	+ 3 7.9	1.902	2.749	12.6	21.4
2 5	6 7.53	+26 0.9	1.840	2.636	15.2	21.4	2 5	6 8.88	+ 4 13.8	1.984	2.753	15.2	21.6
513396	2008 <i>JM</i> ₄		12 29.8	238°35'	1°2'/30.1	18	439031	2011 <i>FS</i> ₃		12 29.8	250°69'	0°4'/29.8	18
11 27	7 5.17	+18 32.9	1.689	2.520	14.8	22.3	11 27	7 5.72	+22 41.6	1.690	2.525	14.6	21.7
12 7	6 59.03	+18 52.6	1.603	2.510	11.0	22.0	12 7	6 59.56	+23 5.6	1.602	2.511	10.8	21.4
12 17	6 50.13	+19 19.8	1.541	2.499	6.6	21.7	12 17	6 50.51	+23 33.3	1.537	2.497	6.4	21.1
12 27	6 39.29	+19 52.3	1.506	2.487	2.0	21.4	12 27	6 39.43	+24 1.3	1.500	2.482	1.5	20.7
1 6	6 27.80	+20 27.0	1.500	2.475	3.8	21.5	1 6	6 27.63	+24 26.2	1.491	2.467	3.7	20.9
1 16	6 17.07	+21 1.3	1.523	2.463	8.6	21.8	1 16	6 16.60	+24 45.9	1.511	2.451	8.7	21.1
1 26	6 8.44	+21 33.7	1.571	2.450	13.0	22.0	1 26	6 7.74	+25 0.3	1.557	2.435	13.1	21.4
2 5	6 2.76	+22 3.8	1.642	2.437	16.8	22.2	2 5	6 1.96	+25 10.5	1.624	2.418	17.0	21.6
273247	2006 <i>KP</i> ₅₆		12 29.8	279°37'	2°2'/29.2	18	357616	2005 <i>EA</i> ₁₅		12 29.8	303°35'	11°4'/1.9	18
11 27	7 1.46	+27 39.0	2.284	3.114	11.5	20.3	11 27	7 0.34	- 7 35.6	1.817	2.562	17.2	20.2
12 7	6 55.83	+28 28.8	2.200	3.106	8.5	20.1	12 7	6 55.08	- 8 15.5	1.747	2.561	15.1	20.1
12 17	6 48.05	+29 18.6	2.141	3.098	5.2	19.8	12 17	6 47.62	- 8 29.2	1.696	2.559	13.1	20.0
12 27	6 38.80	+30 4.4	2.112	3.089	2.4	19.6	12 27	6 38.73	- 8 11.8	1.668	2.557	11.7	19.9
1 6	6 29.08	+30 42.7	2.112	3.081	3.8	19.7	1 6	6 29.46	- 7 22.4	1.664	2.556	11.5	19.9
1 16	6 19.94	+31 11.4	2.143	3.073	7.1	19.9	1 16	6 20.92	- 6 3.6	1.685	2.554	12.7	19.9
1 26	6 12.41	+31 30.6	2.200	3.065	10.4	20.1	1 26	6 14.12	- 4 21.7	1.730	2.553	14.8	20.1
2 5	6 7.19	+31 41.6	2.281	3.057	13.2	20.3	2 5	6 9.75	- 2 25.2	1.796	2.552	17.0	20.2
24360	2000 <i>AG</i> ₁₂₀		12 29.8	162°79'	2°7'/30.5	18	45976	2001 <i>BT</i> ₄₁		12 29.8	145°06'	6°3'/31.4	18
11 27	6 59.26	+12 58.0	2.565	3.375	11.0	18.9	11 27	6 58.52	+ 1 35.7	2.540	3.312	12.2	19.4
12 7	6 53.74	+13 2.7	2.487	3.378	8.3	18.7	12 7	6 53.17	+ 1 13.2	2.468	3.317	10.0	19.2
12 17	6 46.60	+13 15.1	2.435	3.381	5.4	18.5	12 17	6 46.26	+ 1 5.0	2.419	3.323	7.9	19.1
12 27	6 38.45	+13 34.9	2.412	3.384	3.0	18.4	12 27	6 38.40	+ 1 12.8	2.398	3.328	6.5	19.0
1 6	6 30.05	+14 1.0	2.419	3.386	3.6	18.4	1 6	6 30.33	+ 1 36.4	2.405	3.333	6.6	19.0
1 16	6 22.19	+14 31.8	2.457	3.388	6.3	18.6	1 16	6 22.81	+ 2 14.5	2.440	3.338	8.1	19.1
1 26	6 15.61	+15 5.9	2.522	3.390	9.1	18.8	1 26	6 16.53	+ 3 4.2	2.503	3.342	10.2	19.3
2 5	6 10.84	+15 41.6	2.613	3.392	11.7	18.9	2 5	6 12.01	+ 4 1.9	2.589	3.346	12.3	19.4
407876	2012 <i>BL</i> ₉₃		12 29.8	305°49'	1°5'/29.6	18	304123	2006 <i>KT</i> ₂		12 29.8	204°89'	1°3'/29.6	18
11 27	7 2.19	+26 12.4	1.800	2.640	13.7	21.1	11 27	7 4.92	+25 16.5	2.152	2.978	12.3	21.8
12 7	6 56.80	+26 33.9	1.715	2.626	10.1	20.8	12 7	6 58.39	+25 49.8	2.069	2.973	9.0	21.6
12 17	6 48.79	+26 55.4	1.653	2.613	6.0	20.5	12 17	6 49.56	+26 23.9	2.010	2.968	5.3	21.3
12 27	6 38.99	+27 13.3	1.619	2.600	2.0	20.3	12 27	6 39.19	+26 55.3	1.981	2.962	1.7	21.1
1 6	6 28.63	+27 24.8	1.613	2.587	3.8	20.4	1 6	6 28.36	+27 21.0	1.983	2.956	3.4	21.2
1 16	6 19.05	+27 28.8	1.635	2.574	8.2	20.6	1 16	6 18.22	+27 39.5	2.015	2.949	7.2	21.4
1 26	6 11.48	+27 26.0	1.683	2.561	12.3	20.8	1 26	6 9.84	+27 50.9	2.074	2.942	10.8	21.6
2 5	6 6.76	+27 18.5	1.753	2.549	15.8	21.0	2 5	6 3.95	+27 56.8	2.156	2.934	13.8	21.8
197177	2003 <i>UJ</i> ₂₈₇		12 29.8	254°06'	2°8'/30.2	18	209211	2003 <i>VH</i> ₄		12 29.8	340°49'	2°0'/29.7	17
11 27	6 59.54	+14 10.1	2.647	3.458	10.7	20.8	11 27	7 2.05	+27 12.8	1.385	2.239	16.1	20.4
12 7	6 54.01	+13 50.6	2.548	3.440	8.1	20.6	12 7	6 57.28	+27 26.0	1.311	2.229	12.0	20.2
12 17	6 46.82	+13 36.7	2.476	3.422	5.3	20.4	12 17	6 49.30	+27 37.4	1.259	2.220	7.2	19.9
12 27	6 38.52	+13 28.7	2.432	3.404	3.0	20.2	12 27	6 39.17	+27 43.0	1.231	2.212	2.5	19.5
1 6	6 29.87	+13 26.6	2.419	3.385	3.7	20.2	1 6	6 28.44	+27 39.9	1.230	2.205	4.6	19.7
1 16	6 21.65	+13 30.3	2.437	3.366	6.4	20.4	1 16	6 18.82	+27 27.7	1.255	2.198	9.6	19.9
1 26	6 14.66	+13 39.1	2.482	3.347	9.4	20.5	1 26	6 11.81	+27 8.7	1.303	2.192	14.4	20.2
2 5	6 9.44	+13 52.0	2.552	3.327	12.0	20.7	2 5	6 8.27	+26 45.9	1.371	2.188	18.4	20.4
132880	2002 <i>RU</i> ₁₃₂		12 29.8	31°28'	0°1'/29.9	17	151724	2003 <i>BU</i> ₆₅		12 29.8	45°89'	9°4'/30.3	18
11 27	7 0.07	+21 2.4	1.821	2.661	13.5	19.2	11 27	7 15.16	+42 16.9	1.117	1.953	20.4	18.7
12 7	6 54.90	+21 30.9	1.761	2.672	9.9	19.0	12 7	7 7.26	+43 0.7	1.087	1.982	16.2	18.5
12 17	6 47.47	+22 3.6	1.724	2.685	5.7	18.8	12 17	6 54.95	+43 21.6	1.077	2.010	12.1	18.4
12 27	6 38.66	+22 38.0	1.716	2.698	1.3	18.5	12 27	6 40.32	+43 10.2	1.089	2.040	9.6	18.4
1 6	6 29.59	+23 11.0	1.735	2.711	3.2	18.7	1 6	6 26.03	+42 24.7	1.125	2.070	10.1	18.5
1 16	6 21.41	+23 40.6	1.783	2.725	7.4	19.0	1 16	6 14.46	+41 11.5	1.184	2.101	13.0	18.7
1 26	6 15.12	+24 6.0	1.858	2.740	11.1	19.2	1 26	6 7.07	+39 42.1	1.266	2.132	16.4	19.0
2 5	6 11.36	+24 27.4	1.955	2.755	14.3	19.5	2 5	6 4.25	+38 7.3	1.367	2.163	19.5	19.3
35970	1999 <i>LE</i> ₂₁		12 29.8	240°20'	1°6'/29.6	18	87454	2000 <i>QG</i> ₁₂₁		12 29.8	101°47'	0°9'/29.9	18
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EPHEMERIDES

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
196003	2002 <i>RJ</i> ₂₄₀		12 29.8 137°51	2°7/29.5	18		157207	2004 <i>RX</i> ₁₈		12 29.9 53°39	0°9/29.9	18	
11 27	7 3.02	+31 58.4	2.466	3.288	11.0	20.3	11 27	7 1.63	+20 20.8	1.858	2.693	13.5	20.6
12 7	6 56.69	+32 11.7	2.393	3.292	8.2	20.2	12 7	6 55.95	+20 22.1	1.796	2.705	9.9	20.4
12 17	6 48.39	+32 19.8	2.346	3.297	5.2	20.0	12 17	6 48.07	+20 27.1	1.759	2.718	5.8	20.2
12 27	6 38.90	+32 19.9	2.328	3.301	2.9	19.8	12 27	6 38.87	+20 34.4	1.750	2.731	1.6	19.9
1 6	6 29.21	+32 10.5	2.340	3.305	3.8	19.9	1 6	6 29.46	+20 42.5	1.769	2.744	3.2	20.1
1 16	6 20.28	+31 51.8	2.381	3.309	6.7	20.1	1 16	6 20.97	+20 50.6	1.817	2.758	7.4	20.3
1 26	6 13.02	+31 25.9	2.451	3.313	9.6	20.3	1 26	6 14.38	+20 58.5	1.891	2.771	11.1	20.6
2 5	6 7.98	+30 55.3	2.545	3.317	12.1	20.5	2 5	6 10.28	+21 6.1	1.988	2.785	14.2	20.8
405238	2003 <i>SW</i> ₁₃₁		12 29.8 63°09	6°7/31.1	18		116876	2004 <i>FQ</i> ₁₁₀		12 29.9 132°31	4°8/30.7	18	
11 27	6 59.68	+4 6.3	2.074	2.866	13.9	20.4	11 27	7 1.14	+7 39.6	2.431	3.224	12.0	20.3
12 7	6 54.16	+3 26.2	2.021	2.886	11.2	20.2	12 7	6 55.08	+7 12.7	2.364	3.237	9.5	20.1
12 17	6 46.87	+3 1.1	1.991	2.907	8.6	20.1	12 17	6 47.38	+6 56.4	2.323	3.251	6.8	20.0
12 27	6 38.55	+2 53.1	1.987	2.927	6.8	20.0	12 27	6 38.70	+6 51.9	2.310	3.263	5.0	19.9
1 6	6 30.13	+3 2.4	2.011	2.948	7.0	20.1	1 6	6 29.87	+6 59.2	2.326	3.275	5.3	19.9
1 16	6 22.48	+3 27.6	2.062	2.968	8.9	20.2	1 16	6 21.69	+7 17.3	2.372	3.287	7.4	20.1
1 26	6 16.41	+4 5.5	2.139	2.989	11.3	20.4	1 26	6 14.90	+7 44.4	2.446	3.298	9.9	20.3
2 5	6 12.41	+4 52.3	2.239	3.009	13.6	20.6	2 5	6 10.00	+8 17.9	2.543	3.309	12.3	20.5
95191	2002 <i>BB</i> ₁₂		12 29.8 348°37	0°8/29.8	18		133886	2004 <i>PV</i> ₁₀₁		12 29.9 7°72	13°0/31.1	18	
11 27	7 2.38	+24 42.4	1.294	2.150	16.9	19.1	11 27	6 54.64	-1 15.7	1.237	2.052	20.1	17.9
12 7	6 57.57	+24 47.8	1.224	2.144	12.5	18.8	12 7	6 51.52	-3 2.8	1.189	2.055	17.3	17.8
12 17	6 49.49	+24 54.0	1.176	2.139	7.3	18.5	12 17	6 45.76	-4 22.7	1.160	2.061	14.7	17.6
12 27	6 39.22	+24 57.6	1.153	2.135	1.8	18.2	12 27	6 38.38	-5 7.3	1.152	2.069	13.2	17.6
1 6	6 28.40	+24 56.2	1.155	2.131	4.3	18.3	1 6	6 30.70	-5 13.3	1.164	2.079	13.3	17.6
1 16	6 18.76	+24 49.3	1.183	2.129	9.8	18.6	1 16	6 24.09	-4 42.4	1.198	2.091	15.0	17.7
1 26	6 11.84	+24 38.5	1.234	2.127	14.7	18.9	1 26	6 19.70	-3 41.3	1.252	2.105	17.4	17.9
2 5	6 8.48	+24 25.9	1.305	2.126	18.9	19.2	2 5	6 18.20	-2 19.7	1.324	2.121	19.9	18.1
257926	2000 <i>WY</i> ₇₂		12 29.8 67°93	1°4/29.9	18		224726	2006 <i>BE</i> ₂₀₈		12 29.9 59°06	4°7/30.8	18	
11 27	7 11.49	+21 38.6	1.204	2.049	18.7	19.6	11 27	6 59.62	+9 25.2	2.009	2.821	13.5	19.9
12 7	7 3.60	+21 7.8	1.166	2.079	13.6	19.4	12 7	6 54.30	+9 9.6	1.945	2.832	10.5	19.8
12 17	6 52.53	+20 39.7	1.150	2.110	7.9	19.2	12 17	6 47.06	+9 5.8	1.905	2.843	7.3	19.6
12 27	6 39.80	+20 13.5	1.160	2.141	2.2	18.9	12 27	6 38.65	+9 14.8	1.892	2.855	5.0	19.5
1 6	6 27.27	+19 49.3	1.196	2.171	4.4	19.2	1 6	6 30.03	+9 35.9	1.907	2.866	5.3	19.5
1 16	6 16.64	+19 28.3	1.259	2.202	9.7	19.5	1 16	6 22.16	+10 7.2	1.951	2.878	8.0	19.7
1 26	6 9.11	+19 11.7	1.346	2.231	14.3	19.9	1 26	6 15.91	+10 46.2	2.021	2.890	11.0	19.9
2 5	6 5.20	+19 0.2	1.454	2.261	18.0	20.2	2 5	6 11.85	+11 30.0	2.114	2.902	13.8	20.1
138148	2000 <i>EJ</i> ₆₃		12 29.8 240°35	1°4/29.7	18		454911	2015 <i>TE</i> ₁₃₂		12 29.9 333°51	7°8/31.0	17	
11 27	7 6.48	+25 51.7	1.798	2.630	14.0	20.4	11 27	6 58.44	+4 40.0	1.618	2.430	16.3	21.0
12 7	6 59.99	+26 13.2	1.710	2.618	10.4	20.1	12 7	6 54.02	+4 0.8	1.540	2.419	13.3	20.8
12 17	6 50.71	+26 34.6	1.646	2.605	6.2	19.8	12 17	6 47.18	+3 39.3	1.484	2.409	10.2	20.6
12 27	6 39.50	+26 52.3	1.610	2.591	1.9	19.5	12 27	6 38.72	+3 39.2	1.451	2.399	8.1	20.5
1 6	6 27.66	+27 3.1	1.604	2.577	3.8	19.6	1 6	6 29.76	+4 1.4	1.445	2.390	8.3	20.5
1 16	6 16.62	+27 6.0	1.626	2.563	8.4	19.9	1 16	6 21.53	+4 44.4	1.464	2.382	10.9	20.6
1 26	6 7.72	+27 1.9	1.674	2.548	12.6	20.1	1 26	6 15.18	+5 43.8	1.507	2.374	14.1	20.8
2 5	6 1.81	+26 53.4	1.745	2.532	16.2	20.3	2 5	6 11.46	+6 54.0	1.570	2.367	17.3	21.0
430382	2014 <i>TY</i> ₈₄		12 29.8 335°74	9°3/28.4	16		328367	2008 <i>QR</i> ₇		12 29.9 39°37	4°1/30.9	18	
11 27	7 0.63	+4 52.9	1.760	2.563	15.5	19.5	11 27	6 59.43	+10 9.1	1.859	2.678	14.2	19.9
12 7	6 55.43	+2 46.0	1.678	2.547	12.9	19.3	12 7	6 54.30	+10 19.5	1.799	2.692	10.9	19.7
12 17	6 47.91	+0 48.9	1.621	2.532	10.5	19.1	12 17	6 47.11	+10 43.3	1.762	2.706	7.3	19.5
12 27	6 38.86	-0 50.8	1.589	2.517	9.3	19.0	12 27	6 38.67	+11 19.9	1.752	2.721	4.5	19.4
1 6	6 29.34	-2 7.4	1.584	2.504	10.0	19.0	1 6	6 30.00	+12 7.1	1.771	2.736	4.9	19.4
1 16	6 20.53	-2 57.4	1.605	2.491	12.3	19.1	1 16	6 22.14	+13 1.8	1.817	2.751	7.9	19.7
1 26	6 13.49	-3 21.1	1.649	2.479	15.1	19.3	1 26	6 16.01	+14 0.5	1.890	2.767	11.2	19.9
2 5	6 8.98	-3 22.3	1.713	2.468	17.7	19.5	2 5	6 12.22	+15 0.1	1.986	2.783	14.2	20.1
280724	2005 <i>GY</i> ₁₇₉		12 29.8 286°35	6°6/29.3	18		266770	2009 <i>SE</i> ₁₆₅		12 29.9 22°23	5°3/29.1	17	
11 27	7 0.95	+5 52.9	2.372	3.160	12.4	20.0	11 27	7 4.73	+36 50.8	1.957	2.782	13.3	19.9
12 7	6 55.17	+4 27.9	2.278	3.142	10.2	19.8	12 7	6 58.59	+37 33.6	1.889	2.784	10.3	19.7
12 17	6 47.57	+3 11.2	2.210	3.124	8.0	19.7	12 17	6 49.79	+38 7.5	1.846	2.787	7.3	19.5
12 27	6 38.77	+2 6.7	2.170	3.106	6.7	19.5	12 27	6 39.29	+38 26.9	1.830	2.790	5.4	19.4
1 6	6 29.58	+1 17.4	2.160	3.088	7.2	19.5	1 6	6 28.43	+38 28.6	1.841	2.793	6.3	19.4
1 16	6 20.90	+0 45.1	2.178	3.070	9.2	19.6	1 16	6 18.59	+38 12.6	1.881	2.796	9.0	19.6
1 26	6 13.56	+0 29.5	2.222	3.052	11.7	19.8	1 26	6 10.99	+37 42.3	1.945	2.800	12.0	19.8
2 5	6 8.17	+0 28.6	2.288	3.033	14.1	19.9	2 5	6 6.32	+37 2.4	2.032	2.804	14.8	20.0
277854	2006 <i>HR</i> ₁₃₁		12 29.8 129°06	3°7/30.7	18		481935	2009 <i>BT</i> ₁₅₂		12 29.9 344°29	4°2/29.6	17	
11 27	6 59.26	+10 15.5	2.575	3.377	11.2	21.1	11 27	7 3.77	+32 11.2	1.325	2.178	16.8	21.5
12 7	6 53.69	+10 3.9	2.504	3.387	8.6	20.9	12 7	6 58.78	+32 27.2	1.254	2.169	12.7	21.2
12 17	6 46.57	+10 1.0	2.459	3.397	5.9	20.8	12 17	6 50.28	+32 35.5	1.204	2.161	8.2	20.9
12 27	6 38.51	+10 7.5	2.443	3.407	3.9	20.7	12 27	6 39.45	+32 30.4	1.178	2.154	4.5	20.7
1 6	6 30.28	+10 22.6	2.457	3.416	4.3	20.7	1 6	6 28.04	+32 8.8	1.178	2.148	5.9	20.8
1 16	6 22.62	+10 45.5	2.500	3.425	6.6	20.9	1 16	6 17.95	+31 31.6	1.204	2.143	10.5	21.0
1 26	6 16.25	+11 14.3	2.572	3.433	9.2	21.0	1 26	6 10.78	+30 43.6	1.252	2.138	15.0	21.3
2 5	6 11.64	+11 47.1	2.668	3.442	11.6	21.2	2 5	6 7.39	+29 50.7	1.320	2.135	19.0	21.5
178961	2001 <i>QY</i> ₂₀₂		12 29.8 71°24	0°0/29.8	18		350559	2000 <i>UE</i> ₃₀		12 29.9 32°62	6°5/29.6	17	
11 27	7 2.83	+21 31.0	1.8										

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
39986	1998 <i>HJ</i> ₃₂		12 29.9 73°09	8°0/31.0	18		449291	2013 <i>ER</i> ₉₀		12 29.9 290°25	8°3/27.9	17	
11 27	7 3.51	+ 4 24.8	1.615	2.417	16.7	18.0	11 27	7 8.76	+41 29.2	1.777	2.593	14.8	21.2
12 7	6 57.32	+ 3 28.3	1.567	2.439	13.5	17.8	12 7	7 2.49	+42 47.9	1.691	2.572	12.1	21.0
12 17	6 48.85	+ 2 50.1	1.540	2.460	10.3	17.7	12 17	6 52.61	+43 56.5	1.627	2.551	9.6	20.8
12 27	6 39.06	+ 2 33.5	1.539	2.482	8.2	17.6	12 27	6 40.06	+44 45.4	1.589	2.529	8.3	20.7
1 6	6 29.17	+ 2 39.1	1.564	2.503	8.4	17.6	1 6	6 26.48	+45 7.3	1.578	2.507	9.2	20.7
1 16	6 20.36	+ 3 5.0	1.616	2.525	10.7	17.8	1 16	6 13.81	+45 0.4	1.592	2.486	11.8	20.8
1 26	6 13.61	+ 3 46.9	1.692	2.546	13.5	18.1	1 26	6 3.86	+44 28.5	1.630	2.464	15.0	21.0
2 5	6 9.51	+ 4 39.4	1.789	2.567	16.2	18.3	2 5	5 57.77	+43 39.0	1.688	2.443	18.0	21.1
257340	2009 <i>JC</i> ₁₃		12 29.9 203°83	0°4/29.8	18		448326	2009 <i>DU</i> ₁₀₈		12 29.9 281°81	4°2/30.8	18	
11 27	7 3.25	+23 26.0	2.384	3.207	11.3	22.1	11 27	7 1.44	+10 55.6	1.773	2.592	14.7	21.6
12 7	6 56.94	+23 43.6	2.299	3.203	8.3	21.9	12 7	6 56.08	+11 1.2	1.693	2.587	11.3	21.4
12 17	6 48.65	+24 2.4	2.240	3.198	4.8	21.7	12 17	6 48.34	+11 20.2	1.636	2.581	7.6	21.2
12 27	6 39.05	+24 20.1	2.210	3.192	1.1	21.4	12 27	6 39.02	+11 52.8	1.606	2.576	4.6	21.0
1 6	6 29.08	+24 35.0	2.211	3.186	2.8	21.5	1 6	6 29.21	+12 36.9	1.604	2.571	5.1	21.0
1 16	6 19.73	+24 46.0	2.242	3.179	6.5	21.8	1 16	6 20.12	+13 29.8	1.630	2.565	8.6	21.2
1 26	6 11.92	+24 53.1	2.302	3.171	9.8	22.0	1 26	6 12.86	+14 28.0	1.683	2.560	12.4	21.4
2 5	6 6.27	+24 57.4	2.386	3.164	12.7	22.1	2 5	6 8.17	+15 28.0	1.758	2.554	15.7	21.6
58159	1989 <i>SL</i> ₄		12 29.9 51°25	0°2/29.9	18		477326	2009 <i>TQ</i> ₇		12 29.9 102°80	5°9/30.6	16	
11 27	7 5.28	+21 9.7	1.301	2.151	17.3	18.1	11 27	7 7.61	+ 8 37.8	1.754	2.557	15.6	21.9
12 7	6 59.28	+21 34.2	1.255	2.171	12.6	17.9	12 7	7 0.09	+ 7 55.7	1.705	2.585	12.1	21.8
12 17	6 50.24	+22 4.0	1.230	2.192	7.3	17.7	12 17	6 50.37	+ 7 26.9	1.680	2.613	8.6	21.6
12 27	6 39.40	+22 35.0	1.231	2.213	1.7	17.4	12 27	6 39.41	+ 7 13.4	1.682	2.639	6.1	21.5
1 6	6 28.38	+23 3.7	1.258	2.234	4.0	17.6	1 6	6 28.43	+ 7 15.2	1.712	2.665	6.5	21.6
1 16	6 18.79	+23 27.9	1.312	2.256	9.2	18.0	1 16	6 18.58	+ 7 31.0	1.772	2.690	9.3	21.8
1 26	6 11.93	+23 47.3	1.390	2.278	13.7	18.3	1 26	6 10.82	+ 7 58.1	1.857	2.714	12.4	22.1
2 5	6 8.43	+24 2.6	1.489	2.301	17.4	18.6	2 5	6 5.69	+ 8 32.8	1.964	2.737	15.2	22.3
326634	2002 <i>SB</i> ₁₁		12 29.9 134°44	5°4/31.2	18		377624	2005 <i>SY</i> ₂₀₆		12 29.9 36°95	3°3/30.4	18	
11 27	6 58.22	+ 2 16.1	2.994	3.760	10.6	21.8	11 27	7 3.01	+15 28.5	1.127	1.981	19.0	19.4
12 7	6 52.73	+ 1 50.7	2.926	3.773	8.7	21.7	12 7	6 57.87	+15 29.1	1.082	1.998	14.2	19.2
12 17	6 45.95	+ 1 37.0	2.884	3.786	6.8	21.6	12 17	6 49.53	+15 42.7	1.057	2.015	8.8	18.9
12 27	6 38.41	+ 1 36.3	2.869	3.799	5.6	21.5	12 27	6 39.26	+16 7.8	1.056	2.034	3.9	18.7
1 6	6 30.73	+ 1 48.7	2.884	3.811	5.7	21.6	1 6	6 28.80	+16 41.3	1.079	2.053	5.2	18.9
1 16	6 23.55	+ 2 13.2	2.928	3.822	7.0	21.7	1 16	6 19.82	+17 19.8	1.128	2.073	10.2	19.2
1 26	6 17.44	+ 2 47.8	3.000	3.833	8.9	21.8	1 26	6 13.68	+18 0.1	1.199	2.094	14.9	19.5
2 5	6 12.83	+ 3 29.8	3.096	3.844	10.7	22.0	2 5	6 11.04	+18 39.7	1.290	2.116	18.8	19.8
329683	2003 <i>UM</i> ₁₅₇		12 29.9 114°80	2°5/29.4	17		61578	2000 <i>QU</i> ₈₁		12 29.9 120°89	0°9/29.7	18	
11 27	7 2.96	+30 20.7	2.426	3.250	11.1	21.6	11 27	7 3.38	+25 21.2	2.138	2.967	12.2	19.9
12 7	6 56.67	+30 49.0	2.359	3.261	8.2	21.4	12 7	6 57.12	+25 35.7	2.069	2.976	8.9	19.7
12 17	6 48.43	+31 13.7	2.319	3.271	5.1	21.2	12 17	6 48.74	+25 49.8	2.026	2.984	5.2	19.5
12 27	6 38.98	+31 31.5	2.307	3.282	2.7	21.1	12 27	6 39.08	+26 0.8	2.011	2.993	1.5	19.3
1 6	6 29.32	+31 40.4	2.325	3.292	3.7	21.2	1 6	6 29.17	+26 7.1	2.027	3.001	3.1	19.4
1 16	6 20.42	+31 39.9	2.374	3.302	6.6	21.4	1 16	6 20.08	+26 8.1	2.072	3.009	6.9	19.7
1 26	6 13.17	+31 31.5	2.450	3.312	9.6	21.6	1 26	6 12.77	+26 4.7	2.144	3.016	10.3	19.9
2 5	6 8.14	+31 17.4	2.550	3.322	12.1	21.8	2 5	6 7.84	+25 58.2	2.240	3.024	13.2	20.1
271288	2003 <i>UD</i> ₂₅₇		12 29.9 344°26	1°4/29.6	18		254817	2005 <i>QZ</i> ₁₂₆		12 29.9 233°64	1°5/30.1	17	
11 27	6 59.32	+24 37.1	1.705	2.552	14.0	19.5	11 27	7 1.61	+18 19.4	1.981	2.810	13.0	21.0
12 7	6 54.82	+25 15.4	1.627	2.542	10.3	19.2	12 7	6 55.99	+18 21.9	1.904	2.809	9.7	20.8
12 17	6 47.74	+25 56.4	1.571	2.532	6.1	19.0	12 17	6 48.18	+18 29.7	1.850	2.807	5.8	20.5
12 27	6 38.89	+26 36.2	1.543	2.524	1.9	18.7	12 27	6 38.97	+18 41.7	1.825	2.805	2.1	20.3
1 6	6 29.49	+27 11.0	1.542	2.516	3.8	18.8	1 6	6 29.40	+18 56.6	1.829	2.803	3.4	20.4
1 16	6 20.86	+27 38.3	1.568	2.509	8.3	19.1	1 16	6 20.56	+19 13.2	1.862	2.801	7.3	20.6
1 26	6 14.25	+27 57.8	1.620	2.503	12.4	19.3	1 26	6 13.45	+19 30.5	1.922	2.799	11.0	20.8
2 5	6 10.47	+28 10.4	1.693	2.498	15.9	19.5	2 5	6 8.74	+19 48.0	2.004	2.797	14.2	21.0
429777	2012 <i>GS</i> ₂₁		12 29.9 154°00	4°1/29.2	18		270285	2001 <i>VD</i> ₇₀		12 29.9 301°83	7°7/28.9	17	
11 27	7 10.77	+31 27.8	1.707	2.535	14.8	21.5	11 27	7 3.21	+ 7 18.8	1.862	2.665	14.8	19.9
12 7	7 3.23	+32 23.3	1.641	2.543	11.1	21.3	12 7	6 57.21	+ 5 31.6	1.778	2.652	12.0	19.7
12 17	6 52.61	+33 14.3	1.599	2.550	7.2	21.1	12 17	6 48.93	+ 3 52.7	1.719	2.640	9.3	19.5
12 27	6 39.98	+33 53.7	1.585	2.557	4.3	20.9	12 27	6 39.15	+ 2 27.9	1.686	2.627	7.8	19.4
1 6	6 26.87	+34 16.9	1.600	2.563	5.6	21.0	1 6	6 28.95	+ 1 22.1	1.683	2.615	8.5	19.4
1 16	6 14.94	+34 22.8	1.643	2.568	9.3	21.2	1 16	6 19.46	+ 0 37.8	1.706	2.603	11.0	19.5
1 26	6 5.58	+34 14.2	1.712	2.573	13.1	21.5	1 26	6 11.74	+ 0 15.2	1.754	2.592	13.9	19.7
2 5	5 59.59	+33 55.8	1.802	2.577	16.3	21.7	2 5	6 6.50	+ 0 11.1	1.823	2.580	16.7	19.9
418469	2008 <i>RD</i> ₆₄		12 29.9 116°60	6°4/28.9	17		149673	2004 <i>GE</i> ₉		12 29.9 220°67	1°1/29.7	18	
11 27	7 8.58	+44 51.0	2.650	3.436	11.3	21.5	11 27	7 6.89	+25 24.1	1.861	2.691	13.7	21.2
12 7	7 0.92	+45 38.6	2.593	3.452	9.3	21.4	12 7	7 0.17	+25 40.0	1.776	2.682	10.1	20.9
12 17	6 50.93	+46 13.6	2.562	3.467	7.4	21.3	12 17	6 50.78	+25 55.7	1.715	2.674	6.0	20.7
12 27	6 39.55	+46 31.0	2.557	3.482	6.4	21.2	12 27	6 39.59	+26 7.9	1.683	2.664	1.7	20.4
1 6	6 27.97	+46 28.5	2.582	3.496	6.9	21.3	1 6	6 27.85	+26 14.1	1.680	2.654	3.6	20.5
1 16	6 17.40	+46 6.6	2.634	3.510	8.4	21.4	1 16	6 16.95	+26 13.6	1.706	2.643	8.1	20.7
1 26	6 8.86	+45 28.8	2.713	3.524	10.3	21.6	1 26	6 8.13	+26 7.3	1.759	2.632	12.1	21.0
2 5	6 2.96	+44 40.3	2.814	3.538	12.2	21.7	2 5	6 2.19	+25 57.5	1.835	2.620	15.6	21.2
153572	2001 <i>SL</i> ₁₉₇		12 29.9 304°19	1°1/29.8	18		5937	Lodón		12 29.9 79°32	2°5/29.6	18	
11 27	7 4.1												

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
518459	2005 <i>GZ</i> ₂₂₉	12 29.9	241°68	4°6/30.2	18		53327	1999 <i>JL</i> ₂₃	12 29.9	235°89	4°3/30.3	18	
11 27	7 4.72	+13 41.8	1.489	2.320	16.5	21.9	11 27	7 1.05	+10 15.1	2.473	3.273	11.6	19.7
12 7	6 58.82	+13 5.8	1.414	2.315	12.6	21.6	12 7	6 55.23	+9 44.0	2.379	3.260	9.1	19.5
12 17	6 50.07	+12 39.5	1.360	2.310	8.4	21.4	12 17	6 47.64	+9 20.9	2.310	3.245	6.4	19.3
12 27	6 39.43	+12 24.3	1.333	2.305	4.9	21.2	12 27	6 38.87	+9 7.1	2.269	3.230	4.4	19.1
1 6	6 28.27	+12 21.0	1.332	2.299	5.9	21.2	1 6	6 29.73	+9 3.2	2.259	3.215	4.9	19.1
1 16	6 18.08	+12 28.9	1.359	2.293	10.0	21.4	1 16	6 21.08	+9 9.1	2.278	3.199	7.4	19.2
1 26	6 10.16	+12 46.6	1.410	2.287	14.3	21.6	1 26	6 13.73	+9 23.6	2.326	3.182	10.2	19.4
2 5	6 5.35	+13 11.6	1.481	2.281	18.0	21.9	2 5	6 8.29	+9 45.1	2.397	3.165	12.9	19.6
390601	2001 <i>TD</i> ₂₅	12 29.9	35°04	4°9/29.5	18		463876	2014 <i>UG</i> ₄₇	12 29.9	13°13	4°5/28.8	18	
11 27	7 7.11	+32 51.8	1.327	2.174	17.1	20.5	11 27	7 3.14	+33 42.8	2.070	2.899	12.6	20.7
12 7	7 1.09	+33 29.4	1.270	2.181	12.9	20.3	12 7	6 57.37	+34 43.6	2.000	2.900	9.6	20.5
12 17	6 51.54	+33 59.2	1.235	2.188	8.4	20.0	12 17	6 49.11	+35 39.4	1.955	2.901	6.5	20.4
12 27	6 39.75	+34 14.1	1.224	2.196	5.1	19.9	12 27	6 39.22	+36 24.6	1.938	2.903	4.5	20.2
1 6	6 27.60	+34 10.1	1.239	2.205	6.4	20.0	1 6	6 28.87	+36 55.1	1.949	2.905	5.6	20.3
1 16	6 16.98	+33 47.9	1.280	2.214	10.6	20.2	1 16	6 19.34	+37 9.5	1.989	2.907	8.4	20.5
1 26	6 9.44	+33 12.4	1.345	2.223	14.8	20.5	1 26	6 11.77	+37 9.5	2.054	2.909	11.5	20.7
2 5	6 5.71	+32 29.5	1.429	2.233	18.4	20.8	2 5	6 6.91	+36 58.4	2.142	2.912	14.2	20.9
48967	1998 <i>QX</i> ₃₆	12 29.9	179°33	2°5/30.2	18		170465	2003 <i>UE</i> ₂₁₁	12 29.9	123°62	2°8/30.2	18	
11 27	7 5.86	+16 48.4	1.872	2.693	14.0	19.9	11 27	7 4.27	+15 47.7	2.004	2.823	13.3	21.3
12 7	6 59.13	+16 34.6	1.795	2.695	10.5	19.7	12 7	6 57.69	+15 24.4	1.939	2.836	9.9	21.1
12 17	6 50.02	+16 26.7	1.743	2.697	6.5	19.5	12 17	6 49.04	+15 7.2	1.899	2.850	6.3	21.0
12 27	6 39.40	+16 24.4	1.720	2.697	2.9	19.2	12 27	6 39.17	+14 56.3	1.887	2.862	3.1	20.8
1 6	6 28.41	+16 27.0	1.725	2.697	4.0	19.3	1 6	6 29.12	+14 51.5	1.905	2.875	4.0	20.9
1 16	6 18.28	+16 33.8	1.760	2.696	8.0	19.5	1 16	6 19.94	+14 52.5	1.953	2.886	7.5	21.1
1 26	6 10.08	+16 44.2	1.822	2.694	11.8	19.8	1 26	6 12.57	+14 58.6	2.028	2.898	10.9	21.3
2 5	6 4.52	+16 57.5	1.907	2.692	15.1	20.0	2 5	6 7.57	+15 8.8	2.126	2.909	13.8	21.5
252638	2001 <i>XB</i> ₂₃₀	12 29.9	39°45	0°4/29.9	18		50483	2000 <i>DR</i> ₇₉	12 29.9	261°36	6°1/28.9	18	
11 27	7 2.26	+22 0.2	1.850	2.686	13.5	20.6	11 27	7 8.84	+39 13.0	2.059	2.871	13.2	19.2
12 7	6 56.56	+21 59.3	1.780	2.689	9.9	20.3	12 7	7 1.85	+39 55.6	1.969	2.853	10.5	19.0
12 17	6 48.53	+22 0.6	1.733	2.693	5.8	20.1	12 17	6 51.90	+40 28.3	1.902	2.835	7.8	18.8
12 27	6 39.06	+22 2.4	1.714	2.696	1.4	19.8	12 27	6 39.89	+40 44.6	1.863	2.816	6.1	18.7
1 6	6 29.28	+22 3.5	1.724	2.700	3.2	20.0	1 6	6 27.21	+40 40.1	1.852	2.796	6.9	18.7
1 16	6 20.38	+22 3.3	1.762	2.704	7.5	20.2	1 16	6 15.42	+40 14.6	1.869	2.776	9.6	18.8
1 26	6 13.41	+22 2.1	1.827	2.707	11.4	20.5	1 26	6 5.92	+39 31.7	1.912	2.756	12.7	19.0
2 5	6 9.03	+22 0.8	1.915	2.711	14.6	20.7	2 5	5 59.59	+38 37.3	1.977	2.736	15.6	19.1
99240	2001 <i>KH</i> ₃₇	12 29.9	127°54	0°1/29.9	18		205121	1999 <i>VL</i> ₈₃	12 29.9	239°36	3°8/29.3	18	
11 27	7 0.61	+22 0.3	2.538	3.361	10.7	19.5	11 27	7 7.05	+32 33.6	2.058	2.881	12.8	20.2
12 7	6 54.85	+22 26.1	2.465	3.369	7.8	19.4	12 7	7 0.31	+33 11.1	1.970	2.868	9.7	20.0
12 17	6 47.35	+22 54.2	2.419	3.377	4.5	19.2	12 17	6 50.90	+33 43.7	1.906	2.855	6.4	19.8
12 27	6 38.78	+23 22.6	2.403	3.385	1.0	18.9	12 27	6 39.66	+34 6.4	1.870	2.840	3.9	19.6
1 6	6 29.96	+23 49.2	2.417	3.392	2.5	19.0	1 6	6 27.81	+34 15.5	1.863	2.826	5.0	19.6
1 16	6 21.74	+24 12.6	2.462	3.400	5.9	19.3	1 16	6 16.74	+34 10.1	1.886	2.810	8.4	19.8
1 26	6 14.92	+24 32.5	2.536	3.407	9.0	19.5	1 26	6 7.69	+33 52.3	1.936	2.795	11.9	20.0
2 5	6 10.04	+24 49.1	2.633	3.414	11.5	19.7	2 5	6 1.50	+33 26.0	2.007	2.779	14.9	20.2
457807	2009 <i>RK</i> ₁₄	12 29.9	20°74	5°0/30.6	17		231640	2009 <i>UJ</i> ₁₂₉	12 29.9	97°56	3°7/29.5	18	
11 27	6 59.27	+9 53.2	1.877	2.695	14.1	21.2	11 27	7 10.38	+30 56.4	1.561	2.394	15.7	21.1
12 7	6 54.25	+9 26.2	1.808	2.698	11.0	21.0	12 7	7 2.88	+31 32.3	1.508	2.413	11.7	20.9
12 17	6 47.14	+9 11.1	1.762	2.701	7.7	20.8	12 17	6 52.32	+32 2.2	1.478	2.432	7.3	20.7
12 27	6 38.74	+9 9.2	1.742	2.705	5.3	20.7	12 27	6 39.93	+32 20.5	1.476	2.450	3.9	20.6
1 6	6 30.06	+9 20.4	1.751	2.710	5.7	20.7	1 6	6 27.35	+32 23.7	1.501	2.468	5.3	20.7
1 16	6 22.13	+9 43.6	1.787	2.714	8.5	20.9	1 16	6 16.22	+32 12.4	1.554	2.486	9.2	21.0
1 26	6 15.91	+10 16.2	1.849	2.719	11.8	21.1	1 26	6 7.84	+31 50.1	1.633	2.503	13.1	21.2
2 5	6 12.00	+10 55.1	1.933	2.725	14.7	21.3	2 5	6 2.88	+31 21.5	1.733	2.520	16.4	21.5
349732	2008 <i>YB</i> ₉₃	12 29.9	64°75	2°3/29.9	17		427136	2014 <i>UC</i> ₁₂₇	12 29.9	351°74	3°7/30.2	17	
11 27	7 10.17	+30 51.6	1.529	2.364	15.9	21.1	11 27	6 59.65	+14 18.1	1.953	2.779	13.3	21.2
12 7	7 2.51	+30 25.4	1.475	2.382	11.7	20.8	12 7	6 54.51	+13 41.3	1.877	2.777	10.1	21.0
12 17	6 51.94	+29 50.7	1.444	2.400	7.1	20.6	12 17	6 47.31	+13 11.3	1.826	2.774	6.7	20.8
12 27	6 39.79	+29 5.3	1.440	2.419	2.8	20.4	12 27	6 38.81	+12 49.5	1.801	2.772	3.9	20.7
1 6	6 27.67	+28 9.9	1.464	2.437	4.3	20.5	1 6	6 30.00	+12 36.5	1.805	2.771	4.7	20.7
1 16	6 17.15	+27 8.0	1.517	2.456	8.7	20.9	1 16	6 21.93	+12 32.3	1.837	2.770	7.9	20.9
1 26	6 9.38	+26 4.6	1.596	2.474	12.8	21.1	1 26	6 15.54	+12 36.2	1.895	2.769	11.4	21.1
2 5	6 4.92	+25 4.3	1.697	2.493	16.2	21.4	2 5	6 11.43	+12 46.7	1.976	2.769	14.4	21.3
164550	2006 <i>KP</i>	12 29.9	276°48	1°3/30.0	18		189886	2003 <i>RY</i> ₁₇	12 29.9	106°84	0°0/29.8	18	
11 27	7 3.14	+19 41.3	1.701	2.537	14.5	20.4	11 27	7 1.58	+22 27.0	2.333	3.159	11.4	20.8
12 7	6 57.49	+19 40.3	1.621	2.530	10.8	20.1	12 7	6 55.64	+22 42.6	2.266	3.171	8.3	20.7
12 17	6 49.24	+19 44.1	1.564	2.522	6.4	19.9	12 17	6 47.84	+23 0.1	2.224	3.182	4.8	20.5
12 27	6 39.25	+19 51.3	1.533	2.515	2.0	19.6	12 27	6 38.91	+23 17.2	2.212	3.194	1.1	20.2
1 6	6 28.76	+20 0.3	1.532	2.507	3.7	19.7	1 6	6 29.77	+23 32.5	2.230	3.205	2.7	20.4
1 16	6 19.10	+20 10.2	1.558	2.499	8.3	19.9	1 16	6 21.36	+23 44.9	2.278	3.216	6.3	20.6
1 26	6 11.49	+20 20.4	1.610	2.492	12.6	20.2	1 26	6 14.49	+23 54.5	2.354	3.227	9.5	20.8
2 5	6 6.71	+20 31.1	1.684	2.485	16.2	20.4	2 5	6 9.74	+24 1.7	2.455	3.238	12.2	21.0
248692	2006 <i>KR</i> ₈₀	12 29.9	16°64	4°6/30.5	18		448448	2010 <i>DU</i> ₅₇	12 29.9	162°21	4°4/28.2	17	
11 27	6 58.67	+9 41.6											

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
337723	2001 <i>UV</i> ₅₂		12 29.9	95°33	3°1/30.4	16	6410	Fujiwara		12 29.9	109°69	1°5/29.6	18 R
11 27	7 6.29	+14 57.4	1.665	2.489	15.3	21.1	11 27	7 4.91	+25 57.2	2.211	3.036	12.0	17.6
12 7	6 59.40	+14 47.5	1.612	2.511	11.4	20.9	12 7	6 58.18	+26 35.1	2.151	3.055	8.8	17.4
12 17	6 50.11	+14 46.6	1.582	2.534	7.2	20.7	12 17	6 49.37	+27 12.6	2.116	3.073	5.2	17.2
12 27	6 39.42	+14 54.0	1.580	2.556	3.5	20.6	12 27	6 39.30	+27 46.0	2.111	3.091	1.8	17.0
1 6	6 28.62	+15 8.5	1.607	2.577	4.5	20.7	1 6	6 29.01	+28 12.8	2.137	3.109	3.3	17.1
1 16	6 18.95	+15 28.5	1.662	2.598	8.3	21.0	1 16	6 19.57	+28 31.6	2.193	3.126	6.8	17.4
1 26	6 11.45	+15 52.3	1.743	2.618	12.1	21.2	1 26	6 11.90	+28 43.0	2.276	3.143	10.0	17.6
2 5	6 6.73	+16 18.4	1.846	2.638	15.3	21.5	2 5	6 6.61	+28 48.6	2.383	3.159	12.7	17.8
128832	2004 <i>RQ</i> ₃₂₁		12 29.9	339°23	3°0/30.2	18	128131	2003 <i>QV</i> ₄₄		12 29.9	188°19	3°6/29.3	18
11 27	7 2.36	+15 5.5	1.464	2.303	16.3	19.5	11 27	7 4.35	+34 18.2	2.449	3.266	11.2	20.2
12 7	6 57.12	+14 36.4	1.392	2.299	12.3	19.3	12 7	6 57.86	+34 45.7	2.372	3.266	8.5	20.0
12 17	6 49.10	+14 16.2	1.342	2.296	8.0	19.0	12 17	6 49.24	+35 6.9	2.320	3.265	5.7	19.9
12 27	6 39.25	+14 6.0	1.317	2.292	4.3	18.8	12 27	6 39.29	+35 18.1	2.297	3.264	3.7	19.7
1 6	6 28.94	+14 5.7	1.319	2.289	5.3	18.8	1 6	6 29.02	+35 17.1	2.304	3.263	4.6	19.8
1 16	6 19.60	+14 14.7	1.348	2.287	9.6	19.1	1 16	6 19.51	+35 3.9	2.341	3.261	7.2	19.9
1 26	6 12.52	+14 31.5	1.401	2.285	13.9	19.3	1 26	6 11.73	+34 40.4	2.405	3.260	10.0	20.1
2 5	6 8.48	+14 54.0	1.474	2.283	17.7	19.6	2 5	6 6.30	+34 9.9	2.492	3.258	12.5	20.3
270664	2002 <i>PQ</i> ₁₈₈		12 29.9	56°98	4°3/29.4	18	315831	2008 <i>GY</i> ₁₂₃		12 29.9	257°14	0°2/29.9	17
11 27	7 4.39	+35 56.6	2.213	3.033	12.1	20.4	11 27	7 2.79	+23 47.5	1.999	2.831	12.8	21.3
12 7	6 58.03	+36 21.4	2.143	3.037	9.3	20.2	12 7	6 56.92	+23 48.6	1.919	2.827	9.4	21.1
12 17	6 49.37	+36 38.1	2.097	3.040	6.4	20.0	12 17	6 48.79	+23 50.1	1.863	2.823	5.5	20.9
12 27	6 39.28	+36 42.5	2.079	3.043	4.4	19.9	12 27	6 39.20	+23 50.2	1.836	2.818	1.3	20.5
1 6	6 28.92	+36 32.5	2.091	3.047	5.2	20.0	1 6	6 29.23	+23 47.6	1.838	2.814	3.1	20.7
1 16	6 19.49	+36 8.5	2.131	3.050	7.9	20.1	1 16	6 20.04	+23 41.9	1.869	2.809	7.3	20.9
1 26	6 12.01	+35 33.5	2.197	3.054	10.8	20.3	1 26	6 12.68	+23 33.9	1.928	2.805	11.0	21.2
2 5	6 7.11	+34 51.4	2.287	3.058	13.4	20.5	2 5	6 7.81	+23 24.8	2.009	2.800	14.2	21.4
487628	2015 <i>NX</i> ₈		12 29.9	82°12	1°2/30.1	17	305828	2009 <i>DM</i> ₁₂₈		12 29.9	107°22	0°3/29.9	18
11 27	7 6.00	+18 32.6	1.794	2.621	14.3	21.8	11 27	7 3.82	+20 53.0	1.888	2.719	13.5	20.5
12 7	6 59.07	+18 50.7	1.746	2.650	10.4	21.6	12 7	6 57.66	+21 15.5	1.822	2.729	9.9	20.3
12 17	6 49.87	+19 14.4	1.722	2.679	6.2	21.4	12 17	6 49.19	+21 42.0	1.780	2.739	5.8	20.1
12 27	6 39.38	+19 41.3	1.726	2.707	1.9	21.2	12 27	6 39.28	+22 10.0	1.767	2.749	1.4	19.8
1 6	6 28.80	+20 9.0	1.760	2.735	3.3	21.3	1 6	6 29.07	+22 36.8	1.783	2.759	3.2	20.0
1 16	6 19.33	+20 35.7	1.823	2.762	7.5	21.7	1 16	6 19.74	+23 0.7	1.828	2.768	7.4	20.3
1 26	6 11.94	+21 0.5	1.913	2.789	11.2	21.9	1 26	6 12.34	+23 21.2	1.900	2.777	11.2	20.5
2 5	6 7.19	+21 23.2	2.026	2.816	14.2	22.2	2 5	6 7.52	+23 38.5	1.995	2.787	14.3	20.7
80135	Zanzanini		12 29.9	346°92	6°4/30.6	18	91520	1999 <i>RK</i> ₁₈₃		12 29.9	335°55	0°9/30.0	18
11 27	7 2.31	+10 0.2	1.308	2.143	18.1	18.9	11 27	7 1.06	+19 56.9	2.034	2.865	12.7	18.8
12 7	6 57.30	+9 23.4	1.241	2.140	14.2	18.6	12 7	6 55.58	+20 5.3	1.958	2.864	9.3	18.6
12 17	6 49.30	+9 2.3	1.193	2.138	10.0	18.4	12 17	6 47.98	+20 17.8	1.905	2.863	5.5	18.3
12 27	6 39.32	+8 59.6	1.170	2.136	6.8	18.2	12 27	6 39.01	+20 33.0	1.881	2.863	1.6	18.1
1 6	6 28.82	+9 15.7	1.172	2.134	7.4	18.2	1 6	6 29.69	+20 49.1	1.886	2.862	3.1	18.2
1 16	6 19.36	+9 48.7	1.199	2.133	11.1	18.4	1 16	6 21.09	+21 5.0	1.921	2.861	7.1	18.4
1 26	6 12.33	+10 34.6	1.249	2.132	15.4	18.7	1 26	6 14.18	+21 20.0	1.982	2.860	10.7	18.6
2 5	6 8.56	+11 28.4	1.319	2.131	19.2	18.9	2 5	6 9.62	+21 34.1	2.066	2.860	13.8	18.8
126865	2002 <i>EL</i> ₈₄		12 29.9	32°47	1°3/29.7	17	420160	2011 <i>FA</i> ₁₅₅		12 29.9	86°11	3°2/29.1	17
11 27	7 2.29	+25 46.2	1.829	2.668	13.5	19.8	11 27	7 2.43	+31 35.9	2.416	3.240	11.1	20.6
12 7	6 56.69	+26 7.7	1.762	2.673	9.9	19.6	12 7	6 56.42	+32 22.3	2.351	3.250	8.3	20.4
12 17	6 48.68	+26 29.0	1.719	2.678	5.8	19.4	12 17	6 48.39	+33 4.8	2.311	3.261	5.4	20.2
12 27	6 39.15	+26 46.8	1.703	2.684	1.8	19.1	12 27	6 39.09	+33 39.4	2.300	3.271	3.3	20.1
1 6	6 29.29	+26 58.8	1.716	2.690	3.6	19.3	1 6	6 29.51	+34 3.4	2.320	3.282	4.2	20.2
1 16	6 20.35	+27 4.0	1.757	2.696	7.7	19.5	1 16	6 20.66	+34 15.9	2.368	3.292	7.0	20.4
1 26	6 13.42	+27 3.3	1.824	2.702	11.5	19.8	1 26	6 13.46	+34 17.9	2.444	3.302	9.8	20.6
2 5	6 9.18	+26 58.3	1.914	2.709	14.7	20.0	2 5	6 8.51	+34 11.8	2.544	3.312	12.2	20.8
496624	2015 <i>RT</i> ₆₃		12 29.9	15°49	5°3/30.8	17	393056	2013 <i>AT</i> ₅₅		12 29.9	113°38	1°3/29.6	18
11 27	7 0.26	+10 32.1	1.501	2.332	16.4	21.2	11 27	7 6.33	+24 49.6	1.977	2.804	13.1	21.3
12 7	6 55.42	+10 12.9	1.437	2.335	12.7	21.0	12 7	6 59.41	+25 30.2	1.917	2.822	9.6	21.1
12 17	6 48.03	+10 8.2	1.393	2.338	8.7	20.8	12 17	6 50.17	+26 11.3	1.882	2.839	5.6	20.9
12 27	6 39.01	+10 19.1	1.375	2.343	5.6	20.6	12 27	6 39.50	+26 49.2	1.875	2.856	1.7	20.7
1 6	6 29.63	+10 44.9	1.383	2.347	6.2	20.6	1 6	6 28.57	+27 20.5	1.899	2.873	3.4	20.8
1 16	6 21.18	+11 23.2	1.418	2.353	9.6	20.8	1 16	6 18.59	+27 43.7	1.953	2.888	7.4	21.1
1 26	6 14.85	+12 10.3	1.477	2.359	13.5	21.1	1 26	6 10.60	+27 59.1	2.034	2.904	10.9	21.3
2 5	6 11.34	+13 2.2	1.557	2.365	16.9	21.3	2 5	6 5.23	+28 8.4	2.138	2.919	13.9	21.6
36055	1999 <i>RP</i> ₃₁		12 29.9	129°41	0°9/29.7	17	438051	2004 <i>PV</i> ₅₀		12 29.9	127°25	0°2/29.9	18
11 27	7 2.64	+25 18.6	2.200	3.028	11.9	19.6	11 27	7 6.91	+22 41.7	1.920	2.746	13.5	22.4
12 7	6 56.59	+25 33.6	2.127	3.034	8.7	19.4	12 7	6 59.83	+23 2.2	1.857	2.762	9.9	22.2
12 17	6 48.49	+25 48.3	2.081	3.039	5.1	19.2	12 17	6 50.41	+23 24.7	1.819	2.778	5.7	22.0
12 27	6 39.10	+26 0.2	2.063	3.044	1.4	19.0	12 27	6 39.55	+23 46.3	1.810	2.792	1.3	21.7
1 6	6 29.44	+26 7.6	2.075	3.049	3.0	19.1	1 6	6 28.47	+24 4.4	1.831	2.806	3.2	21.9
1 16	6 20.55	+26 9.9	2.117	3.054	6.7	19.4	1 16	6 18.35	+24 17.9	1.882	2.819	7.4	22.2
1 26	6 13.36	+26 7.7	2.186	3.059	10.1	19.6	1 26	6 10.27	+24 27.3	1.959	2.832	11.1	22.4
2 5	6 8.48	+26 2.4	2.279	3.064	13.0	19.8	2 5	6 4.84	+24 33.5	2.060	2.844	14.2	22.6
389000	2008 <i>UW</i> ₁₄₁		12 29.9	174°28	3°0/29.3	18	76122	2000 <i>DR</i> ₁₁₇		12 29.9	73°24	3°7/29.5	17
11 27	7 7.10	+29 28.6	1.918	2									

EPHEMERIDES

12 29.9

12 29.9

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
462496	2008 <i>VD</i> ₆₉		12 29.9 168°42	3:7/28.9	18		349072	2007 <i>AN</i> ₂₆		12 29.9 164°01	6:4/	1.2	18
11 27	7 3.18	+34 34.5	2.713	3.528	10.3	21.4	11 27	7 5.52	+3 12.6	1.723	2.512	16.4	20.5
12 7	6 56.90	+35 20.4	2.638	3.530	7.9	21.2	12 7	6 59.11	+3 44.7	1.647	2.515	13.1	20.3
12 17	6 48.66	+36 0.9	2.590	3.532	5.4	21.0	12 17	6 50.18	+4 39.6	1.593	2.518	9.6	20.0
12 27	6 39.18	+36 32.3	2.571	3.534	3.8	20.9	12 27	6 39.58	+5 57.2	1.566	2.521	6.8	19.9
1 6	6 29.36	+36 51.8	2.582	3.536	4.5	21.0	1 6	6 28.49	+7 34.0	1.568	2.523	6.8	19.9
1 16	6 20.17	+36 58.7	2.624	3.538	6.8	21.1	1 16	6 18.18	+9 24.0	1.599	2.524	9.5	20.1
1 26	6 12.51	+36 54.3	2.692	3.539	9.3	21.3	1 26	6 9.82	+11 19.8	1.657	2.525	13.0	20.3
2 5	6 6.99	+36 41.2	2.785	3.540	11.6	21.5	2 5	6 4.19	+13 15.0	1.739	2.526	16.3	20.5
1275	Cimbria		12 29.9 54°64	8:1/31.4	18	R	337726	2001 <i>UA</i> ₆₀		12 29.9 100°31	2:8/29.5	18	
11 27	7 1.33	+3 23.0	1.628	2.429	16.6	14.6	11 27	7 9.36	+29 0.5	1.676	2.508	14.9	21.1
12 7	6 55.85	+2 36.5	1.575	2.446	13.5	14.4	12 7	7 1.97	+29 37.1	1.622	2.528	11.0	21.0
12 17	6 48.12	+2 9.3	1.544	2.462	10.4	14.3	12 17	6 51.78	+30 9.9	1.593	2.548	6.7	20.7
12 27	6 39.04	+2 4.5	1.538	2.479	8.4	14.2	12 27	6 39.91	+30 34.0	1.591	2.568	3.1	20.6
1 6	6 29.79	+2 22.3	1.558	2.496	8.5	14.3	1 6	6 27.85	+30 46.0	1.617	2.587	4.6	20.7
1 16	6 21.52	+3 0.4	1.603	2.513	10.7	14.4	1 16	6 17.07	+30 45.7	1.672	2.605	8.6	21.0
1 26	6 15.22	+3 54.2	1.673	2.531	13.5	14.6	1 26	6 8.80	+30 35.5	1.754	2.624	12.3	21.3
2 5	6 11.48	+4 57.8	1.764	2.548	16.2	14.9	2 5	6 3.68	+30 19.1	1.857	2.641	15.5	21.5
158811	2003 <i>TZ</i> ₁₄		12 29.9 28°09	0:2/29.9	18		380490	2004 <i>BV</i> ₁₄₀		12 29.9 40°44	1:6/30.1	18	
11 27	6 58.17	+23 46.5	2.386	3.218	11.0	19.5	11 27	7 4.52	+19 4.8	1.165	2.020	18.5	21.2
12 7	6 53.14	+23 48.6	2.322	3.231	8.0	19.3	12 7	6 59.13	+19 11.5	1.113	2.031	13.7	21.0
12 17	6 46.40	+23 51.2	2.284	3.243	4.6	19.1	12 17	6 50.42	+19 26.4	1.082	2.043	8.1	20.7
12 27	6 38.65	+23 52.8	2.275	3.257	1.1	18.9	12 27	6 39.63	+19 47.1	1.074	2.055	2.5	20.4
1 6	6 30.74	+23 52.6	2.295	3.270	2.6	19.1	1 6	6 28.52	+20 10.4	1.092	2.069	4.5	20.6
1 16	6 23.53	+23 50.2	2.344	3.284	6.0	19.3	1 16	6 18.86	+20 34.0	1.136	2.082	10.0	20.9
1 26	6 17.78	+23 45.9	2.422	3.299	9.1	19.5	1 26	6 12.09	+20 56.6	1.202	2.096	14.9	21.2
2 5	6 14.00	+23 40.6	2.523	3.314	11.7	19.7	2 5	6 8.94	+21 17.8	1.288	2.111	19.0	21.5
199815	2007 <i>DL</i> ₃₄		12 29.9 225°65	0:6/29.9	18		112151	2002 <i>JF</i> ₇₁		12 29.9 202°05	3:3/30.5	18	
11 27	7 5.41	+20 54.7	1.831	2.661	13.9	21.5	11 27	7 5.56	+14 7.4	1.605	2.431	15.7	19.8
12 7	6 59.10	+21 4.7	1.746	2.653	10.3	21.3	12 7	6 59.37	+14 10.1	1.528	2.428	11.9	19.6
12 17	6 50.21	+21 18.5	1.686	2.644	6.1	21.0	12 17	6 50.43	+14 23.8	1.474	2.426	7.6	19.3
12 27	6 39.58	+21 34.1	1.653	2.635	1.5	20.7	12 27	6 39.66	+14 48.1	1.447	2.422	3.8	19.1
1 6	6 28.41	+21 49.2	1.649	2.625	3.4	20.8	1 6	6 28.35	+15 20.9	1.447	2.418	4.7	19.1
1 16	6 18.01	+22 2.6	1.675	2.615	8.0	21.1	1 16	6 17.91	+15 59.6	1.476	2.414	9.0	19.4
1 26	6 9.59	+22 13.9	1.727	2.604	12.1	21.3	1 26	6 9.63	+16 41.6	1.531	2.409	13.3	19.6
2 5	6 3.94	+22 23.7	1.802	2.593	15.7	21.5	2 5	6 4.32	+17 24.6	1.607	2.404	17.0	19.8
90506	2004 <i>EU</i> ₁₇		12 29.9 169°18	1:3/30.2	18		462489	2008 <i>UY</i> ₃₆₂		12 29.9 19°38	8:9/28.9	16	
11 27	7 2.28	+17 29.2	1.998	2.824	13.0	19.6	11 27	7 8.12	+47 7.8	1.974	2.771	14.3	20.2
12 7	6 56.52	+17 55.5	1.922	2.825	9.7	19.4	12 7	7 1.51	+48 7.0	1.916	2.775	12.0	20.1
12 17	6 48.57	+18 29.0	1.870	2.826	5.8	19.2	12 17	6 51.72	+48 49.3	1.880	2.781	9.9	19.9
12 27	6 39.19	+19 7.8	1.847	2.827	1.9	18.9	12 27	6 39.93	+49 7.6	1.869	2.786	8.9	19.9
1 6	6 29.41	+19 49.1	1.853	2.828	3.2	19.0	1 6	6 27.78	+48 58.2	1.884	2.793	9.4	19.9
1 16	6 20.33	+20 30.3	1.888	2.828	7.2	19.3	1 16	6 16.98	+48 22.2	1.924	2.799	11.1	20.0
1 26	6 12.96	+21 9.8	1.951	2.828	10.9	19.5	1 26	6 8.92	+47 24.9	1.988	2.807	13.3	20.2
2 5	6 8.00	+21 46.5	2.038	2.829	14.1	19.7	2 5	6 4.33	+46 13.7	2.073	2.814	15.5	20.4
128020	2003 <i>JK</i> ₁₆		12 29.9 168°41	1:6/29.5	17		459069	2012 <i>BB</i> ₃₀		12 29.9 39°67	0:2/29.9	17	
11 27	7 2.95	+26 31.5	2.458	3.281	11.0	20.7	11 27	7 4.37	+24 4.6	1.530	2.374	15.4	20.9
12 7	6 56.75	+27 8.3	2.381	3.284	8.1	20.5	12 7	6 58.34	+23 40.0	1.474	2.388	11.3	20.7
12 17	6 48.59	+27 44.7	2.331	3.287	4.8	20.3	12 17	6 49.65	+23 14.8	1.442	2.402	6.6	20.5
12 27	6 39.18	+28 17.7	2.310	3.290	1.8	20.1	12 27	6 39.43	+22 48.0	1.436	2.418	1.5	20.2
1 6	6 29.43	+28 44.5	2.320	3.292	3.2	20.2	1 6	6 29.08	+22 19.7	1.457	2.433	3.6	20.4
1 16	6 20.32	+29 3.9	2.361	3.293	6.4	20.4	1 16	6 19.99	+21 51.2	1.507	2.450	8.3	20.7
1 26	6 12.74	+29 16.1	2.429	3.294	9.5	20.6	1 26	6 13.29	+21 24.3	1.581	2.466	12.5	21.0
2 5	6 7.30	+29 22.4	2.522	3.295	12.2	20.8	2 5	6 9.57	+21 0.5	1.677	2.483	16.0	21.3
358275	2006 <i>UY</i> ₁₃		12 29.9 175°28	3:6/29.1	18		172204	2002 <i>QR</i> ₅₂		12 29.9 242°46	3:4/30.6	18	
11 27	7 5.59	+31 39.3	2.170	2.994	12.2	20.9	11 27	7 1.96	+12 51.1	1.802	2.625	14.4	20.2
12 7	6 59.04	+32 31.4	2.096	2.996	9.2	20.7	12 7	6 56.44	+12 57.9	1.726	2.624	10.9	20.0
12 17	6 50.08	+33 19.8	2.047	2.997	6.0	20.5	12 17	6 48.60	+13 16.1	1.674	2.623	7.1	19.7
12 27	6 39.54	+33 59.5	2.027	2.998	3.7	20.4	12 27	6 39.23	+13 45.2	1.649	2.622	3.8	19.5
1 6	6 28.56	+34 26.7	2.037	2.998	4.8	20.4	1 6	6 29.43	+14 23.2	1.652	2.621	4.5	19.6
1 16	6 18.35	+34 40.3	2.076	2.999	7.8	20.6	1 16	6 20.39	+15 7.7	1.683	2.620	8.2	19.8
1 26	6 10.03	+34 41.4	2.142	2.998	11.0	20.8	1 26	6 13.19	+15 55.7	1.741	2.619	12.0	20.0
2 5	6 4.34	+34 33.1	2.230	2.998	13.7	21.0	2 5	6 8.54	+16 44.7	1.822	2.618	15.3	20.2
286214	2001 <i>UA</i> ₁₀₂		12 29.9 107°46	1:9/30.2	18		78691	2002 <i>TQ</i> ₁₆₁		12 29.9 230°46	0:4/29.8	18	
11 27	7 2.92	+17 29.9	2.076	2.899	12.7	21.4	11 27	7 3.92	+21 37.4	2.082	2.909	12.6	19.4
12 7	6 56.72	+17 24.2	2.012	2.913	9.4	21.2	12 7	6 57.84	+22 23.9	1.995	2.901	9.3	19.1
12 17	6 48.53	+17 23.8	1.973	2.927	5.7	21.0	12 17	6 49.44	+23 15.5	1.934	2.892	5.4	18.9
12 27	6 39.15	+17 27.9	1.962	2.941	2.3	20.8	12 27	6 39.44	+24 8.6	1.901	2.883	1.3	18.6
1 6	6 29.58	+17 35.6	1.982	2.954	3.4	20.9	1 6	6 28.87	+24 59.3	1.899	2.874	3.1	18.7
1 16	6 20.84	+17 45.8	2.030	2.968	7.0	21.1	1 16	6 18.90	+25 44.7	1.927	2.865	7.3	18.9
1 26	6 13.81	+17 58.1	2.106	2.980	10.4	21.4	1 26	6 10.63	+26 23.5	1.983	2.855	11.0	19.2
2 5	6 9.07	+18 11.8	2.206	2.993	13.3	21.6	2 5	6 4.83	+26 56.0	2.062	2.845	14.2	19.3
64135	2001 <i>TM</i> ₃₂		12 29.9 329°24	2:3/29.8	18		151364	2002 <i>DN</i> ₃		12 29.9 235°00	15:2/26.6	17	
11 27	7 3.08	+29 14.9	1.										

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
458486	2011 <i>BQ</i> ₁₂₁		12 29.9	30°96	5°0/29.9	17	352987	2009 <i>BY</i> ₉₉		12 29.9	311°38	2°6/30.6	18
11 27	7 7.06	+37 59.3	1.933	2.754	13.7	20.8	11 27	7 1.89	+14 2.3	1.596	2.428	15.5	20.5
12 7	7 0.22	+38 6.3	1.867	2.759	10.6	20.6	12 7	6 56.86	+14 35.7	1.512	2.417	11.7	20.2
12 17	6 50.74	+38 1.5	1.824	2.764	7.4	20.4	12 17	6 49.11	+15 23.2	1.451	2.406	7.4	20.0
12 27	6 39.69	+37 40.6	1.808	2.770	5.2	20.3	12 27	6 39.45	+16 23.0	1.417	2.395	3.2	19.7
1 6	6 28.48	+37 2.2	1.821	2.776	5.9	20.4	1 6	6 29.10	+17 31.2	1.410	2.384	4.2	19.7
1 16	6 18.50	+36 8.3	1.861	2.783	8.7	20.6	1 16	6 19.44	+18 42.9	1.431	2.374	8.8	20.0
1 26	6 10.87	+35 3.8	1.928	2.790	11.8	20.8	1 26	6 11.81	+19 54.1	1.478	2.364	13.2	20.2
2 5	6 6.22	+33 54.3	2.018	2.797	14.6	21.0	2 5	6 7.11	+21 1.6	1.547	2.354	17.1	20.4
388064	2005 <i>TE</i> ₁₃₈		12 29.9	56°73	3°5/29.3	18	316389	2010 <i>TC</i> ₃₆		12 29.9	163°97	1°8/29.6	17
11 27	7 6.94	+28 26.1	1.374	2.221	16.7	20.5	11 27	7 3.83	+27 2.7	2.065	2.895	12.5	21.5
12 7	7 0.86	+29 21.0	1.318	2.232	12.3	20.3	12 7	6 57.73	+27 32.9	1.991	2.897	9.2	21.3
12 17	6 51.45	+30 14.2	1.285	2.243	7.6	20.0	12 17	6 49.33	+28 2.3	1.941	2.899	5.5	21.1
12 27	6 39.91	+30 58.6	1.276	2.254	3.7	19.8	12 27	6 39.45	+28 27.1	1.920	2.900	2.1	20.9
1 6	6 27.95	+31 28.9	1.295	2.265	5.4	20.0	1 6	6 29.20	+28 44.7	1.929	2.901	3.6	21.0
1 16	6 17.34	+31 43.4	1.340	2.276	9.9	20.3	1 16	6 19.74	+28 54.0	1.967	2.902	7.3	21.2
1 26	6 9.58	+31 44.4	1.410	2.288	14.2	20.5	1 26	6 12.12	+28 55.7	2.032	2.903	10.8	21.4
2 5	6 5.43	+31 35.9	1.499	2.300	17.8	20.8	2 5	6 7.02	+28 51.9	2.120	2.904	13.8	21.6
97447	2000 <i>BM</i> ₃₀		12 29.9	101°04	5°1/29.7	18	73323	2002 <i>JO</i> ₉₈		12 29.9	110°13	3°9/29.5	18
11 27	7 8.24	+40 29.1	2.448	3.250	11.7	18.9	11 27	7 11.85	+31 31.0	1.528	2.361	16.0	19.7
12 7	7 0.60	+40 45.9	2.388	3.266	9.2	18.8	12 7	7 4.13	+32 7.0	1.474	2.378	12.0	19.4
12 17	6 50.76	+40 51.3	2.353	3.281	6.7	18.6	12 17	6 53.20	+32 36.4	1.442	2.395	7.6	19.2
12 27	6 39.69	+40 41.4	2.346	3.297	5.2	18.6	12 27	6 40.33	+32 53.1	1.437	2.411	4.2	19.1
1 6	6 28.55	+40 14.7	2.369	3.312	5.7	18.6	1 6	6 27.23	+32 53.6	1.460	2.426	5.5	19.2
1 16	6 18.50	+39 32.8	2.421	3.327	7.7	18.8	1 16	6 15.62	+32 38.4	1.511	2.442	9.5	19.5
1 26	6 10.48	+38 39.5	2.501	3.342	10.1	19.0	1 26	6 6.88	+32 11.7	1.587	2.456	13.4	19.7
2 5	6 5.04	+37 39.6	2.604	3.356	12.4	19.1	2 5	6 1.69	+31 38.6	1.684	2.470	16.8	20.0
324768	2007 <i>GA</i> ₃₈		12 29.9	122°63	4°5/30.7	18	376241	2011 <i>EG</i> ₅₅		12 29.9	147°99	4°7/28.9	18
11 27	6 59.89	+ 8 45.0	2.443	3.242	11.8	21.1	11 27	7 4.44	+38 31.3	2.703	3.510	10.6	20.9
12 7	6 54.29	+ 8 20.1	2.374	3.252	9.2	21.0	12 7	6 57.90	+39 16.0	2.633	3.515	8.3	20.7
12 17	6 47.06	+ 8 5.2	2.330	3.262	6.6	20.8	12 17	6 49.32	+39 52.7	2.589	3.520	6.1	20.6
12 27	6 38.86	+ 8 1.3	2.314	3.272	4.7	20.7	12 27	6 39.44	+40 17.2	2.574	3.525	4.8	20.5
1 6	6 30.48	+ 8 8.2	2.328	3.281	5.0	20.7	1 6	6 29.27	+40 27.0	2.588	3.530	5.4	20.5
1 16	6 22.71	+ 8 25.2	2.371	3.290	7.2	20.9	1 16	6 19.82	+40 21.8	2.632	3.534	7.4	20.7
1 26	6 16.29	+ 8 50.4	2.441	3.299	9.8	21.1	1 26	6 12.02	+40 3.6	2.702	3.538	9.6	20.8
2 5	6 11.72	+ 9 21.7	2.536	3.308	12.2	21.2	2 5	6 6.50	+39 35.9	2.796	3.542	11.8	21.0
197884	2004 <i>RL</i> ₂₁		12 29.9	31°23	3°7/30.4	18	50631	2000 <i>EL</i> ₇₁		12 29.9	34°13	1°9/30.2	18
11 27	7 2.21	+14 59.9	1.246	2.094	17.9	19.8	11 27	7 3.54	+18 24.0	1.076	1.936	19.3	19.4
12 7	6 57.22	+14 47.0	1.193	2.105	13.5	19.6	12 7	6 58.53	+18 30.1	1.030	1.951	14.2	19.1
12 17	6 49.23	+14 46.0	1.161	2.117	8.5	19.3	12 17	6 50.12	+18 45.8	1.005	1.966	8.5	18.9
12 27	6 39.39	+14 56.8	1.152	2.129	4.2	19.1	12 27	6 39.64	+19 8.7	1.002	1.983	2.8	18.6
1 6	6 29.27	+15 17.7	1.170	2.142	5.3	19.2	1 6	6 28.92	+19 35.5	1.025	2.001	4.6	18.8
1 16	6 20.43	+15 46.2	1.213	2.156	9.9	19.5	1 16	6 19.77	+20 3.4	1.072	2.020	10.2	19.1
1 26	6 14.17	+16 19.6	1.279	2.171	14.4	19.8	1 26	6 13.62	+20 30.7	1.141	2.039	15.2	19.5
2 5	6 11.19	+16 55.0	1.365	2.186	18.2	20.1	2 5	6 11.14	+20 56.2	1.230	2.060	19.3	19.8
35457	1998 <i>DN</i> ₁₅		12 29.9	45°96	3°5/29.3	18	118921	2000 <i>VP</i> ₄₅		12 29.9	59°69	0°6/29.8	18
11 27	7 5.83	+28 35.5	1.470	2.315	15.9	17.8	11 27	7 2.52	+23 52.3	1.928	2.763	13.1	19.8
12 7	6 59.96	+29 35.0	1.410	2.322	11.8	17.6	12 7	6 56.79	+24 13.2	1.860	2.769	9.6	19.6
12 17	6 50.93	+30 33.1	1.373	2.330	7.3	17.4	12 17	6 48.78	+24 35.5	1.816	2.775	5.6	19.4
12 27	6 39.83	+31 23.1	1.362	2.338	3.7	17.2	12 27	6 39.33	+24 56.3	1.799	2.781	1.4	19.1
1 6	6 28.25	+31 59.3	1.378	2.347	5.4	17.3	1 6	6 29.57	+25 13.4	1.813	2.788	3.2	19.2
1 16	6 17.87	+32 19.8	1.421	2.355	9.6	17.6	1 16	6 20.66	+25 25.6	1.855	2.794	7.3	19.5
1 26	6 10.14	+32 26.2	1.488	2.364	13.8	17.8	1 26	6 13.63	+25 33.1	1.923	2.801	11.0	19.7
2 5	6 5.86	+32 22.3	1.576	2.373	17.3	18.1	2 5	6 9.14	+25 36.9	2.015	2.808	14.1	20.0
355363	2007 <i>TP</i> ₂₆₁		12 29.9	119°17	6°0/28.8	18	279257	2009 <i>VB</i> ₅₂		12 29.9	13°44	3°7/30.2	17
11 27	7 8.79	+37 4.8	1.875	2.695	14.0	21.1	11 27	6 59.62	+15 9.4	1.666	2.503	14.7	20.3
12 7	7 1.82	+38 11.6	1.812	2.703	10.9	20.9	12 7	6 54.78	+14 31.5	1.602	2.507	11.1	20.1
12 17	6 51.90	+39 9.5	1.774	2.711	7.8	20.8	12 17	6 47.63	+14 1.2	1.560	2.512	7.2	19.9
12 27	6 40.05	+39 51.3	1.763	2.719	6.0	20.7	12 27	6 39.07	+13 39.7	1.544	2.518	4.0	19.7
1 6	6 27.74	+40 12.5	1.780	2.726	6.9	20.7	1 6	6 30.24	+13 27.7	1.556	2.524	4.9	19.8
1 16	6 16.54	+40 12.3	1.825	2.734	9.7	20.9	1 16	6 22.32	+13 25.1	1.595	2.532	8.5	20.0
1 26	6 7.80	+39 54.3	1.895	2.741	12.7	21.1	1 26	6 16.34	+13 30.7	1.659	2.540	12.3	20.3
2 5	6 2.29	+39 24.1	1.986	2.747	15.4	21.3	2 5	6 12.93	+13 42.8	1.744	2.549	15.5	20.5
351826	2006 <i>PF</i> ₄₀		12 29.9	187°53	2°1/30.3	18	114535	2003 <i>BU</i> ₁₉		12 29.9	315°91	9°0/29.0	17
11 27	7 3.00	+15 59.6	2.192	3.009	12.4	21.5	11 27	7 11.26	+46 44.3	1.890	2.686	14.9	19.2
12 7	6 56.88	+16 4.1	2.111	3.009	9.3	21.3	12 7	7 4.06	+47 38.6	1.820	2.681	12.4	19.0
12 17	6 48.74	+16 15.3	2.056	3.008	5.7	21.1	12 17	6 53.37	+48 15.9	1.774	2.677	10.2	18.8
12 27	6 39.31	+16 32.3	2.029	3.006	2.5	20.9	12 27	6 40.42	+48 28.0	1.752	2.674	9.1	18.8
1 6	6 29.52	+16 53.7	2.032	3.004	3.4	21.0	1 6	6 26.98	+48 10.5	1.756	2.670	9.6	18.8
1 16	6 20.38	+17 18.1	2.066	3.002	7.0	21.2	1 16	6 14.95	+47 24.6	1.785	2.666	11.5	18.9
1 26	6 12.81	+17 44.3	2.127	2.999	10.4	21.4	1 26	6 5.86	+46 16.2	1.839	2.663	14.0	19.0
2 5	6 7.46	+18 11.1	2.212	2.996	13.4	21.6	2 5	6 0.54	+44 53.9	1.913	2.659	16.4	19.2
273474	2006 <i>YT</i> ₉		12 29.9	18°77	0°1/29.9	18	44911	1999 <i>VJ</i> ₂₅		12 29.9	86°25	0°0/29.7	18
11 27	7												

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
54173	2000 <i>HS</i> ₅₈		12 29.9 130°46	1.8/30.1	18		295532	2008 <i>RV</i> ₁₂₇		12 29.9 164°54	0.1/29.9	18	
11 27	7 6.40	+18 51.5	1.779	2.606	14.4	18.7	11 27	7 1.24	+22 21.7	2.414	3.239	11.1	21.7
12 7	6 59.60	+18 35.1	1.714	2.617	10.6	18.5	12 7	6 55.49	+22 28.8	2.337	3.241	8.1	21.5
12 17	6 50.38	+18 22.9	1.672	2.628	6.4	18.3	12 17	6 47.92	+22 37.4	2.285	3.243	4.7	21.3
12 27	6 39.70	+18 14.3	1.659	2.638	2.4	18.1	12 27	6 39.20	+22 46.1	2.263	3.245	1.1	21.0
1 6	6 28.79	+18 8.8	1.674	2.648	3.7	18.2	1 6	6 30.21	+22 53.4	2.271	3.246	2.6	21.1
1 16	6 18.89	+18 6.1	1.719	2.657	7.9	18.5	1 16	6 21.85	+22 58.7	2.309	3.248	6.2	21.4
1 26	6 11.07	+18 6.2	1.790	2.666	11.8	18.7	1 26	6 14.96	+23 2.2	2.375	3.249	9.4	21.6
2 5	6 5.97	+18 9.0	1.884	2.674	15.1	18.9	2 5	6 10.12	+23 4.3	2.465	3.249	12.1	21.7
205038	1998 <i>RA</i> ₃₂		12 29.9 125°90	0.3/29.9	18		65783	1995 <i>UK</i>		12 29.9 54°02	2.0/30.1	18	
11 27	7 5.88	+24 0.9	2.155	2.978	12.3	21.0	11 27	7 7.46	+19 7.8	1.367	2.208	17.1	19.5
12 7	6 58.90	+24 5.1	2.090	2.994	9.0	20.8	12 7	7 0.55	+18 50.7	1.330	2.241	12.5	19.3
12 17	6 49.86	+24 9.3	2.052	3.009	5.2	20.6	12 17	6 50.92	+18 39.4	1.316	2.274	7.4	19.1
12 27	6 39.59	+24 11.4	2.042	3.024	1.2	20.3	12 27	6 39.85	+18 33.0	1.328	2.308	2.6	18.9
1 6	6 29.15	+24 10.2	2.064	3.039	2.9	20.5	1 6	6 28.88	+18 30.4	1.367	2.341	4.2	19.1
1 16	6 19.61	+24 5.5	2.115	3.052	6.7	20.8	1 16	6 19.44	+18 31.0	1.433	2.375	8.8	19.5
1 26	6 11.88	+23 58.2	2.194	3.065	10.1	21.0	1 26	6 12.63	+18 34.6	1.524	2.409	13.0	19.8
2 5	6 6.53	+23 49.6	2.297	3.078	13.0	21.2	2 5	6 8.94	+18 40.7	1.636	2.442	16.3	20.1
506112	2016 <i>AQ</i> ₁₉₅		12 29.9 323°20	20.1/2.9	17		72225	2001 <i>AP</i> ₁₂		12 29.9 56°60	3.5/30.6	18	
11 27	7 2.15	-12 36.8	1.028	1.797	26.3	20.5	11 27	7 5.75	+14 29.8	1.183	2.028	18.9	19.2
12 7	6 57.90	-14 24.4	0.973	1.791	24.0	20.3	12 7	6 59.89	+14 34.4	1.136	2.047	14.2	18.9
12 17	6 50.08	-15 29.3	0.931	1.785	21.9	20.2	12 17	6 50.85	+14 52.9	1.109	2.065	8.9	18.7
12 27	6 39.75	-15 38.1	0.905	1.779	20.4	20.0	12 27	6 39.88	+15 23.6	1.107	2.084	4.1	18.5
1 6	6 28.63	-14 44.3	0.895	1.774	20.2	20.0	1 6	6 28.70	+16 3.3	1.130	2.103	5.2	18.6
1 16	6 18.64	-12 50.6	0.903	1.769	21.3	20.1	1 16	6 18.97	+16 47.9	1.179	2.123	10.1	18.9
1 26	6 11.51	-10 9.2	0.928	1.765	23.4	20.2	1 26	6 12.06	+17 34.1	1.252	2.143	14.7	19.3
2 5	6 8.27	-6 58.2	0.969	1.761	26.0	20.3	2 5	6 8.65	+18 19.4	1.344	2.162	18.6	19.6
317766	2003 <i>SD</i> ₉₆		12 29.9 158°95	1°1/29.8	18		136645	1995 <i>FV</i> ₁₂		12 29.9 347°77	2°6/29.6	17	
11 27	7 10.02	+25 19.5	1.857	2.681	14.0	21.9	11 27	7 3.88	+28 44.2	1.685	2.525	14.4	20.0
12 7	7 2.36	+25 37.0	1.787	2.691	10.3	21.7	12 7	6 58.27	+29 10.1	1.612	2.522	10.7	19.7
12 17	6 52.07	+25 54.0	1.741	2.699	6.0	21.4	12 17	6 49.89	+29 33.5	1.562	2.520	6.6	19.5
12 27	6 40.14	+26 7.0	1.725	2.706	1.7	21.2	12 27	6 39.69	+29 49.9	1.540	2.518	2.9	19.2
1 6	6 27.87	+26 13.4	1.738	2.712	3.5	21.3	1 6	6 29.03	+29 56.2	1.545	2.516	4.4	19.3
1 16	6 16.64	+26 12.8	1.781	2.717	7.9	21.6	1 16	6 19.35	+29 51.8	1.578	2.515	8.6	19.6
1 26	6 7.61	+26 6.6	1.852	2.722	11.8	21.8	1 26	6 11.93	+29 38.6	1.636	2.514	12.6	19.8
2 5	6 1.50	+25 57.2	1.945	2.725	15.0	22.1	2 5	6 7.54	+29 19.6	1.715	2.513	16.0	20.0
268612	2006 <i>CK</i> ₄₂		12 29.9 308°04	6°6/31.1	18		415262	2012 <i>KQ</i> ₄₉		12 29.9 154°41	2°0/30.4	18	
11 27	6 58.68	+4 24.0	2.065	2.860	13.8	20.4	11 27	6 59.82	+15 56.8	2.405	3.223	11.4	21.1
12 7	6 53.85	+3 54.6	1.981	2.850	11.2	20.3	12 7	6 54.42	+15 59.2	2.327	3.225	8.5	21.0
12 17	6 47.07	+3 39.9	1.921	2.840	8.6	20.1	12 17	6 47.29	+16 7.8	2.275	3.227	5.3	20.8
12 27	6 39.00	+3 42.4	1.887	2.831	6.8	19.9	12 27	6 39.06	+16 21.7	2.252	3.229	2.4	20.6
1 6	6 30.53	+4 2.5	1.880	2.822	7.0	19.9	1 6	6 30.55	+16 40.0	2.258	3.230	3.2	20.6
1 16	6 22.63	+4 39.0	1.900	2.813	9.1	20.1	1 16	6 22.63	+17 1.5	2.295	3.232	6.3	20.8
1 26	6 16.21	+5 28.8	1.947	2.804	11.9	20.2	1 26	6 16.09	+17 25.0	2.360	3.233	9.4	21.0
2 5	6 11.91	+6 27.8	2.015	2.795	14.6	20.4	2 5	6 11.48	+17 49.4	2.448	3.234	12.1	21.2
394167	2006 <i>QL</i> ₉₅		12 29.9 149°29	1°4/30.2	18		245982	2006 <i>SW</i> ₁₆₆		12 29.9 162°04	0°5/29.9	18	
11 27	7 3.60	+17 46.9	2.339	3.155	11.7	21.7	11 27	7 4.42	+24 27.4	2.033	2.862	12.7	20.7
12 7	6 57.17	+17 59.2	2.267	3.165	8.7	21.5	12 7	6 58.12	+24 33.5	1.959	2.865	9.4	20.5
12 17	6 48.86	+18 16.4	2.220	3.174	5.2	21.3	12 17	6 49.56	+24 39.6	1.909	2.868	5.5	20.2
12 27	6 39.40	+18 37.4	2.203	3.183	1.8	21.1	12 27	6 39.59	+24 43.5	1.888	2.870	1.3	20.0
1 6	6 29.68	+19 0.3	2.217	3.191	2.9	21.2	1 6	6 29.31	+24 43.7	1.897	2.872	3.1	20.1
1 16	6 20.64	+19 23.8	2.262	3.199	6.4	21.4	1 16	6 19.86	+24 39.7	1.935	2.874	7.1	20.4
1 26	6 13.13	+19 47.0	2.335	3.206	9.6	21.6	1 26	6 12.25	+24 32.5	2.001	2.876	10.8	20.6
2 5	6 7.74	+20 9.4	2.432	3.212	12.4	21.8	2 5	6 7.14	+24 23.4	2.090	2.877	13.9	20.8
420563	2012 <i>HO</i> ₄		12 29.9 159°44	2°4/30.5	17		228413	2001 <i>LU</i> ₁₇		12 29.9 154°52	1°9/29.5	18	
11 27	7 0.11	+13 55.3	2.583	3.393	10.9	21.8	11 27	7 8.86	+26 32.2	2.115	2.935	12.6	21.2
12 7	6 54.51	+14 1.1	2.506	3.398	8.2	21.6	12 7	7 1.36	+27 21.1	2.045	2.946	9.3	21.0
12 17	6 47.28	+14 14.0	2.454	3.402	5.3	21.4	12 17	6 51.47	+28 9.7	2.001	2.956	5.6	20.8
12 27	6 39.03	+14 33.5	2.432	3.406	2.7	21.3	12 27	6 40.04	+28 53.4	1.986	2.965	2.2	20.6
1 6	6 30.54	+14 58.4	2.440	3.409	3.3	21.3	1 6	6 28.23	+29 28.6	2.002	2.973	3.7	20.7
1 16	6 22.59	+15 27.2	2.479	3.412	6.1	21.5	1 16	6 17.25	+29 53.4	2.049	2.980	7.4	21.0
1 26	6 15.92	+15 58.6	2.546	3.415	9.0	21.7	1 26	6 8.22	+30 8.4	2.124	2.986	10.8	21.2
2 5	6 11.06	+16 31.2	2.638	3.418	11.5	21.9	2 5	6 1.81	+30 15.9	2.223	2.992	13.7	21.4
326310	1999 <i>RO</i> ₁₅₃		12 29.9 75°90	3°1/30.3	18		454835	2015 <i>RW</i> ₂₁₃		12 29.9 162°82	1°1/30.1	18	
11 27	7 9.50	+16 26.7	1.355	2.189	17.6	20.9	11 27	7 4.48	+19 5.8	2.043	2.866	12.9	21.6
12 7	7 2.09	+16 8.0	1.314	2.220	13.1	20.7	12 7	6 58.11	+19 17.3	1.968	2.871	9.5	21.4
12 17	6 51.85	+15 58.2	1.295	2.250	8.0	20.5	12 17	6 49.55	+19 33.6	1.919	2.875	5.7	21.2
12 27	6 40.06	+15 56.6	1.302	2.279	3.6	20.3	12 27	6 39.60	+19 52.9	1.898	2.879	1.7	20.9
1 6	6 28.31	+16 2.0	1.336	2.309	4.8	20.5	1 6	6 29.32	+20 13.4	1.907	2.882	3.1	21.0
1 16	6 18.10	+16 13.1	1.398	2.338	9.3	20.8	1 16	6 19.80	+20 33.7	1.946	2.885	7.1	21.3
1 26	6 10.58	+16 28.6	1.485	2.366	13.5	21.1	1 26	6 12.04	+20 53.0	2.013	2.887	10.8	21.5
2 5	6 6.30	+16 47.1	1.593	2.394	16.9	21.4	2 5	6 6.70	+21 11.2	2.103	2.889	13.9	21.7
517307	2014 <i>HZ</i> ₁₆₈		12 29.9 279°89	3°1/30.3	18		43520	2001 <i>DM</i> ₁₇		12 29.9 137°63	2°4/30.6	17	
11 27	7 3.42	+											

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
126798	2002 <i>EV</i> ₂₆		12 29.9 178°89	2°8/29.6 18			5055	Opekushin		12 29.9 140°66	0°6/30.1 18		
11 27	7 7.46	+29 49.8	1.887	2.716	13.6	20.6	11 27	7 0.79	+20 19.1	2.673	3.492	10.3	18.0
12 7	7 0.65	+30 14.5	1.813	2.717	10.1	20.4	12 7	6 54.98	+20 27.4	2.600	3.501	7.6	17.8
12 17	6 51.18	+30 35.3	1.763	2.718	6.3	20.2	12 17	6 47.55	+20 38.4	2.553	3.509	4.5	17.7
12 27	6 40.00	+30 47.8	1.741	2.718	3.0	20.0	12 27	6 39.14	+20 50.8	2.536	3.518	1.2	17.4
1 6	6 28.42	+30 49.4	1.749	2.718	4.3	20.1	1 6	6 30.52	+21 3.3	2.550	3.525	2.4	17.5
1 16	6 17.81	+30 39.8	1.785	2.717	8.1	20.3	1 16	6 22.49	+21 15.3	2.595	3.533	5.6	17.8
1 26	6 9.37	+30 21.1	1.848	2.717	11.9	20.5	1 26	6 15.77	+21 26.3	2.668	3.540	8.6	18.0
2 5	6 3.84	+29 56.8	1.933	2.715	15.0	20.7	2 5	6 10.87	+21 36.4	2.767	3.546	11.1	18.1
113202	Kisslászló		12 29.9 31°52	5°0/29.1 18			354315	2002 <i>UU</i> ₅₁		12 29.9 201°77	2°3/29.9 18		
11 27	7 3.90	+36 8.7	2.051	2.876	12.8	19.7	11 27	7 7.69	+30 37.5	1.954	2.780	13.3	21.0
12 7	6 57.99	+36 54.6	1.987	2.882	9.9	19.5	12 7	7 0.67	+30 30.5	1.876	2.778	9.9	20.8
12 17	6 49.59	+37 32.5	1.947	2.888	6.9	19.4	12 17	6 51.12	+30 17.2	1.822	2.776	6.1	20.6
12 27	6 39.62	+37 57.3	1.934	2.895	5.1	19.3	12 27	6 39.98	+29 54.6	1.796	2.774	2.7	20.4
1 6	6 29.32	+38 5.8	1.950	2.902	5.9	19.3	1 6	6 28.55	+29 21.9	1.800	2.771	3.9	20.5
1 16	6 19.97	+37 57.9	1.994	2.910	8.5	19.5	1 16	6 18.12	+28 40.4	1.834	2.769	7.8	20.7
1 26	6 12.69	+37 36.1	2.063	2.918	11.4	19.7	1 26	6 9.83	+27 53.4	1.894	2.766	11.5	20.9
2 5	6 8.16	+37 4.8	2.154	2.926	14.0	19.9	2 5	6 4.35	+27 4.8	1.978	2.762	14.7	21.1
148487	2001 <i>KB</i> ₁₂		12 29.9 178°60	0°9/29.8 18			484121	2006 <i>SN</i> ₂₅₀		12 29.9 155°51	0°8/29.8 18		
11 27	7 7.54	+23 57.3	1.924	2.750	13.5	20.7	11 27	7 4.27	+24 58.0	1.979	2.810	13.0	21.9
12 7	7 0.61	+24 30.3	1.848	2.753	9.9	20.5	12 7	6 58.09	+25 10.0	1.906	2.813	9.5	21.7
12 17	6 51.14	+25 5.3	1.796	2.754	5.8	20.2	12 17	6 49.60	+25 22.0	1.857	2.815	5.6	21.4
12 27	6 40.00	+25 38.3	1.773	2.755	1.6	19.9	12 27	6 39.64	+25 31.3	1.836	2.818	1.5	21.2
1 6	6 28.40	+26 6.1	1.780	2.755	3.4	20.1	1 6	6 29.34	+25 36.0	1.845	2.820	3.2	21.3
1 16	6 17.63	+26 26.9	1.817	2.754	7.7	20.3	1 16	6 19.89	+25 35.5	1.883	2.822	7.3	21.6
1 26	6 8.87	+26 40.9	1.881	2.753	11.6	20.6	1 26	6 12.33	+25 30.8	1.948	2.823	11.0	21.8
2 5	6 2.87	+26 49.6	1.968	2.750	14.8	20.8	2 5	6 7.33	+25 23.4	2.036	2.825	14.2	22.0
279822	2000 <i>QM</i> ₁₁₀		12 29.9 103°46	0°2/29.9 15			313	Chaldaea		12 29.9 335°89	10°7/31.2 18		
11 27	7 7.40	+22 9.1	1.785	2.614	14.2	21.8	11 27	6 58.49	+2 49.0	1.212	2.038	19.8	11.9
12 7	7 0.31	+22 13.8	1.729	2.635	10.4	21.6	12 7	6 54.87	+1 47.5	1.140	2.023	16.5	11.6
12 17	6 50.80	+22 20.4	1.697	2.655	6.1	21.3	12 17	6 48.20	+1 9.3	1.086	2.010	13.2	11.4
12 27	6 39.88	+22 26.8	1.693	2.675	1.4	21.1	12 27	6 39.39	+1 1.3	1.054	1.998	10.9	11.2
1 6	6 28.81	+22 31.2	1.718	2.694	3.3	21.2	1 6	6 29.86	+1 26.3	1.044	1.986	11.2	11.2
1 16	6 18.87	+22 33.3	1.773	2.713	7.6	21.6	1 16	6 21.20	+2 22.5	1.056	1.976	13.8	11.3
1 26	6 11.08	+22 33.5	1.855	2.731	11.4	21.8	1 26	6 14.93	+3 43.4	1.090	1.967	17.5	11.5
2 5	6 6.05	+22 32.8	1.959	2.749	14.6	22.1	2 5	6 11.99	+5 19.8	1.142	1.960	21.2	11.7
332432	2007 <i>TL</i> ₄₀₀		12 29.9 131°74	6°7/31.3 17			188266	2003 <i>AB</i> ₂₁		12 29.9 78°97	1°2/29.7 18		
11 27	6 58.23	- 0 19.5	2.759	3.518	11.6	21.1	11 27	7 8.19	+23 21.6	1.448	2.288	16.3	19.8
12 7	6 52.99	- 1 1.5	2.691	3.526	9.7	21.0	12 7	7 1.45	+24 8.2	1.397	2.309	11.9	19.6
12 17	6 46.35	- 1 29.9	2.646	3.534	7.9	20.9	12 17	6 51.71	+24 57.7	1.370	2.330	6.9	19.3
12 27	6 38.85	- 1 42.4	2.628	3.542	6.8	20.9	12 27	6 40.14	+25 44.8	1.369	2.350	1.9	19.1
1 6	6 31.18	- 1 38.5	2.638	3.549	6.9	20.9	1 6	6 28.32	+26 24.7	1.396	2.371	4.0	19.3
1 16	6 24.01	- 1 18.8	2.676	3.557	8.1	21.0	1 16	6 17.82	+26 55.0	1.451	2.391	8.9	19.6
1 26	6 17.99	- 0 45.6	2.741	3.564	9.9	21.1	1 26	6 9.96	+27 16.1	1.531	2.411	13.2	19.9
2 5	6 13.56	- 0 2.2	2.828	3.571	11.7	21.2	2 5	6 5.42	+27 29.9	1.632	2.431	16.7	20.2
474865	2005 <i>SH</i> ₁₃₇		12 29.9 26°35	1°1/30.1 16			99808	2002 <i>LE</i> ₂₀		12 29.9 233°63	1°2/29.7 18		
11 27	7 3.14	+20 28.5	1.139	1.999	18.5	21.2	11 27	7 5.51	+25 24.7	2.201	3.024	12.1	20.7
12 7	6 58.28	+20 31.3	1.087	2.008	13.6	21.0	12 7	6 59.04	+25 51.8	2.107	3.010	8.9	20.5
12 17	6 50.07	+20 40.5	1.055	2.018	8.0	20.7	12 17	6 50.24	+26 19.4	2.039	2.996	5.3	20.3
12 27	6 39.75	+20 53.7	1.047	2.029	2.2	20.4	12 27	6 39.84	+26 44.4	2.000	2.981	1.7	20.0
1 6	6 29.10	+21 8.1	1.064	2.041	4.3	20.6	1 6	6 28.88	+27 4.0	1.991	2.965	3.3	20.1
1 16	6 19.89	+21 22.1	1.106	2.054	10.0	20.9	1 16	6 18.52	+27 16.8	2.013	2.948	7.2	20.3
1 26	6 13.58	+21 35.2	1.170	2.068	15.0	21.3	1 26	6 9.84	+27 23.1	2.062	2.931	10.8	20.5
2 5	6 10.90	+21 47.2	1.254	2.082	19.1	21.6	2 5	6 3.61	+27 24.4	2.135	2.913	14.0	20.7
267573	2002 <i>QD</i> ₉₄		12 29.9 125°69	0°5/29.8 17			134305	2738 <i>P-L</i>		12 29.9 145°44	6°3/31.1 18		
11 27	7 1.62	+24 19.4	2.670	3.492	10.3	21.7	11 27	6 58.97	+ 3 32.1	2.339	3.123	12.7	20.1
12 7	6 55.59	+24 35.2	2.601	3.504	7.5	21.5	12 7	6 53.81	+ 2 59.0	2.265	3.124	10.4	19.9
12 17	6 47.90	+24 51.1	2.559	3.517	4.4	21.4	12 17	6 46.95	+ 2 39.6	2.214	3.126	8.0	19.8
12 27	6 39.21	+25 5.3	2.547	3.528	1.1	21.1	12 27	6 39.04	+ 2 35.8	2.190	3.127	6.5	19.7
1 6	6 30.34	+25 16.3	2.565	3.540	2.5	21.3	1 6	6 30.87	+ 2 48.2	2.194	3.129	6.7	19.7
1 16	6 22.10	+25 23.6	2.615	3.551	5.7	21.5	1 16	6 23.26	+ 3 15.6	2.226	3.130	8.4	19.8
1 26	6 15.23	+25 27.3	2.693	3.562	8.6	21.7	1 26	6 16.99	+ 3 55.5	2.284	3.131	10.8	19.9
2 5	6 10.26	+25 28.2	2.796	3.573	11.0	21.9	2 5	6 12.61	+ 4 44.4	2.366	3.132	13.1	20.1
197805	2004 <i>PY</i> ₆₈		12 29.9 96°07	1°5/30.2 18			19676	Ofeliaguilar		12 29.9 187°88	3°3/29.4 18		
11 27	7 6.61	+18 48.8	1.674	2.504	15.0	21.0	11 27	7 9.62	+29 33.7	1.718	2.547	14.7	18.4
12 7	6 59.83	+18 51.4	1.619	2.524	11.0	20.8	12 7	7 2.57	+30 18.0	1.643	2.547	11.0	18.2
12 17	6 50.57	+18 59.5	1.587	2.544	6.6	20.6	12 17	6 52.49	+30 59.6	1.592	2.547	6.9	18.0
12 27	6 39.84	+19 11.4	1.582	2.563	2.2	20.4	12 27	6 40.37	+31 32.6	1.569	2.545	3.5	17.7
1 6	6 28.94	+19 25.2	1.607	2.582	3.6	20.5	1 6	6 27.69	+31 52.7	1.575	2.543	4.9	17.8
1 16	6 19.16	+19 39.8	1.660	2.600	8.0	20.8	1 16	6 16.03	+31 58.3	1.610	2.541	9.0	18.1
1 26	6 11.59	+19 54.5	1.740	2.618	11.9	21.1	1 26	6 6.79	+31 51.7	1.670	2.537	13.0	18.3
2 5	6 6.83	+20 9.1	1.841	2.636	15.2	21.4	2 5	6 0.82	+31 36.8	1.752	2.534	16.4	18.5
189295	2005 <i>UP</i> ₂₂₈		12 29.9 16°42	1°1/30.1 17			82190	2001 <i>HY</i> ₂₉		12 29.9 130°65	2°5/29.5 18		
11 27	7 1.69	+19 45.4	1.958	2.789	13.1	20.9	11 27	7 9.28	+27 40.0				

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
416070	2002 <i>ME</i> ₆		12 29.9 131°54'	0°7/29.9	16		204705	2006 <i>FY</i> ₃₇		12 29.9 150°36'	4°1/28.9	18	
11 27	7 3.87	+26 37.8	2.634	3.453	10.5	21.4	11 27	7 4.26	+35 28.6	2.597	3.411	10.8	20.5
12 7	6 57.19	+26 21.5	2.562	3.464	7.7	21.2	12 7	6 57.89	+36 20.0	2.526	3.416	8.3	20.4
12 17	6 48.81	+26 2.5	2.517	3.474	4.5	21.0	12 17	6 49.45	+37 5.3	2.481	3.420	5.8	20.2
12 27	6 39.45	+25 39.9	2.502	3.484	1.2	20.8	12 27	6 39.67	+37 40.3	2.465	3.425	4.2	20.1
1 6	6 29.98	+25 13.4	2.519	3.493	2.5	20.9	1 6	6 29.55	+38 2.1	2.479	3.429	5.0	20.2
1 16	6 21.24	+24 43.8	2.566	3.503	5.8	21.1	1 16	6 20.10	+38 9.8	2.522	3.433	7.2	20.3
1 26	6 14.01	+24 12.7	2.643	3.512	8.7	21.3	1 26	6 12.28	+38 4.9	2.593	3.437	9.7	20.5
2 5	6 8.76	+23 41.7	2.745	3.520	11.2	21.5	2 5	6 6.72	+37 50.5	2.687	3.440	12.0	20.7
264124	2009 <i>TZ</i> ₃₃		12 29.9 45°99'	4°5/29.6	17		460699	2014 <i>UP</i> ₂₀₂		12 29.9 32°92'	4°9/29.2	17	
11 27	7 5.86	+35 54.3	2.044	2.866	12.9	20.4	11 27	7 4.33	+35 16.8	1.932	2.761	13.3	20.7
12 7	6 59.37	+36 14.1	1.975	2.870	9.9	20.2	12 7	6 58.43	+36 2.7	1.869	2.768	10.2	20.5
12 17	6 50.38	+36 25.0	1.929	2.873	6.8	20.0	12 17	6 49.93	+36 41.1	1.831	2.775	7.1	20.3
12 27	6 39.85	+36 22.6	1.911	2.877	4.6	19.9	12 27	6 39.79	+37 6.4	1.819	2.783	5.0	20.2
1 6	6 29.06	+36 4.9	1.922	2.880	5.4	20.0	1 6	6 29.31	+37 15.4	1.835	2.791	5.9	20.3
1 16	6 19.28	+35 32.8	1.962	2.884	8.2	20.1	1 16	6 19.84	+37 7.9	1.879	2.799	8.7	20.5
1 26	6 11.64	+34 49.6	2.027	2.888	11.3	20.3	1 26	6 12.54	+36 46.6	1.949	2.808	11.8	20.7
2 5	6 6.79	+34 0.1	2.116	2.892	14.1	20.5	2 5	6 8.10	+36 15.8	2.040	2.817	14.6	20.9
459787	2013 <i>RZ</i> ₃₈		12 29.9 112°15'	3°9/29.5	18		439551	2014 <i>DZ</i> ₂₇		12 29.9 282°92'	2°0/29.8	18	
11 27	7 4.46	+35 52.0	2.471	3.286	11.2	21.2	11 27	7 6.64	+27 41.4	1.525	2.366	15.6	21.4
12 7	6 57.97	+36 14.2	2.402	3.293	8.6	21.1	12 7	7 0.65	+27 49.4	1.445	2.356	11.6	21.2
12 17	6 49.42	+36 28.9	2.358	3.300	5.9	20.9	12 17	6 51.50	+27 54.6	1.387	2.346	7.0	20.9
12 27	6 39.62	+36 32.4	2.342	3.306	4.0	20.8	12 27	6 40.20	+27 53.0	1.356	2.336	2.5	20.6
1 6	6 29.60	+36 23.0	2.357	3.313	4.7	20.9	1 6	6 28.29	+27 42.0	1.352	2.327	4.3	20.7
1 16	6 20.41	+36 1.1	2.401	3.319	7.2	21.0	1 16	6 17.42	+27 21.8	1.376	2.317	9.3	20.9
1 26	6 12.98	+35 29.2	2.472	3.325	9.8	21.2	1 26	6 9.07	+26 55.1	1.424	2.307	13.8	21.2
2 5	6 7.88	+34 50.6	2.566	3.332	12.2	21.4	2 5	6 4.13	+26 25.4	1.494	2.297	17.8	21.4
7295	Brozovic		12 29.9 108°82'	3°2/30.4	18 R		294993	2008 <i>EW</i> ₂₆		12 29.9 223°97'	4°6/31.0	17	
11 27	7 7.33	+15 18.2	1.539	2.367	16.2	17.3	11 27	7 0.89	+ 8 31.6	2.205	3.006	12.8	20.8
12 7	7 0.54	+15 7.4	1.481	2.383	12.1	17.1	12 7	6 55.41	+ 8 27.0	2.121	3.001	10.1	20.6
12 17	6 51.09	+15 5.8	1.446	2.399	7.6	16.8	12 17	6 48.01	+ 8 34.5	2.061	2.995	7.1	20.4
12 27	6 40.02	+15 13.0	1.438	2.414	3.7	16.6	12 27	6 39.35	+ 8 54.8	2.028	2.989	4.9	20.2
1 6	6 28.72	+15 27.5	1.458	2.429	4.7	16.7	1 6	6 30.32	+ 9 27.1	2.025	2.983	5.2	20.2
1 16	6 18.58	+15 47.7	1.506	2.443	8.9	17.0	1 16	6 21.84	+10 9.4	2.051	2.977	7.7	20.4
1 26	6 10.79	+16 11.9	1.579	2.457	13.0	17.3	1 26	6 14.80	+10 59.2	2.105	2.970	10.8	20.6
2 5	6 5.99	+16 38.6	1.674	2.471	16.4	17.6	2 5	6 9.84	+11 53.2	2.182	2.963	13.6	20.7
460531	2014 <i>TF</i> ₂₈		12 29.9 127°38'	0°2/30.0	17		289027	2004 <i>TW</i> ₁₂₀		12 29.9 101°29'	4°4/29.2	18	
11 27	7 1.54	+21 36.2	2.309	3.135	11.5	21.8	11 27	7 6.43	+35 54.7	2.316	3.131	11.9	20.2
12 7	6 55.80	+21 50.3	2.236	3.140	8.4	21.6	12 7	6 59.52	+36 38.2	2.258	3.148	9.1	20.1
12 17	6 48.16	+22 6.9	2.188	3.146	4.9	21.4	12 17	6 50.38	+37 13.8	2.225	3.165	6.3	19.9
12 27	6 39.34	+22 24.2	2.169	3.151	1.2	21.1	12 27	6 39.88	+37 37.2	2.220	3.181	4.5	19.8
1 6	6 30.25	+22 40.5	2.181	3.156	2.7	21.3	1 6	6 29.16	+37 45.8	2.246	3.198	5.3	19.9
1 16	6 21.82	+22 54.7	2.222	3.161	6.3	21.5	1 16	6 19.37	+37 39.4	2.300	3.214	7.7	20.1
1 26	6 14.93	+23 6.6	2.291	3.166	9.6	21.7	1 26	6 11.51	+37 20.7	2.381	3.229	10.3	20.3
2 5	6 10.15	+23 16.5	2.384	3.171	12.4	21.9	2 5	6 6.18	+36 53.4	2.485	3.245	12.7	20.5
211338	2002 <i>TW</i> ₃₃		12 29.9 267°14'	7°5/28.7	17		156937	2003 <i>FU</i> ₁₁₂		12 29.9 237°78'	6°6/29.0	18	
11 27	7 9.64	+41 44.5	1.885	2.696	14.3	20.2	11 27	7 11.28	+39 8.0	1.836	2.651	14.5	20.6
12 7	7 2.87	+42 44.5	1.808	2.686	11.6	20.0	12 7	7 4.06	+39 59.8	1.755	2.640	11.5	20.3
12 17	6 52.80	+43 32.5	1.753	2.676	9.0	19.9	12 17	6 53.52	+40 41.1	1.697	2.629	8.5	20.1
12 27	6 40.49	+44 0.5	1.725	2.666	7.6	19.8	12 27	6 40.69	+41 4.0	1.665	2.618	6.7	20.0
1 6	6 27.49	+44 3.4	1.724	2.656	8.3	19.8	1 6	6 27.16	+41 3.7	1.661	2.606	7.6	20.0
1 16	6 15.58	+43 40.8	1.749	2.646	10.8	19.9	1 16	6 14.69	+40 39.7	1.685	2.593	10.4	20.2
1 26	6 6.29	+42 57.2	1.799	2.636	13.7	20.1	1 26	6 4.86	+39 56.5	1.734	2.580	13.7	20.3
2 5	6 0.52	+41 59.7	1.869	2.625	16.4	20.2	2 5	5 58.58	+39 1.1	1.804	2.567	16.7	20.5
52911	1998 <i>SP</i> ₉₇		12 29.9 46°67'	5°3/29.4	18		418616	2008 <i>SL</i> ₃₀₀		12 29.9 42°75'	4°4/30.0	17	
11 27	7 8.42	+33 1.9	1.321	2.167	17.3	18.8	11 27	7 2.62	+13 59.2	1.868	2.690	14.0	20.1
12 7	7 2.26	+33 51.9	1.266	2.175	13.1	18.6	12 7	6 56.63	+12 52.2	1.812	2.708	10.6	19.9
12 17	6 52.49	+34 34.4	1.232	2.184	8.7	18.3	12 17	6 48.62	+11 52.3	1.781	2.726	7.1	19.8
12 27	6 40.40	+35 1.6	1.222	2.193	5.5	18.2	12 27	6 39.46	+11 1.9	1.777	2.744	4.6	19.6
1 6	6 27.89	+35 8.4	1.239	2.203	6.8	18.3	1 6	6 30.22	+10 22.8	1.802	2.764	5.3	19.7
1 16	6 16.92	+34 55.1	1.282	2.213	10.8	18.5	1 16	6 21.95	+ 9 56.1	1.856	2.783	8.3	19.9
1 26	6 9.07	+34 26.3	1.347	2.223	14.9	18.8	1 26	6 15.51	+ 9 41.2	1.935	2.803	11.5	20.2
2 5	6 5.13	+33 48.3	1.433	2.233	18.5	19.1	2 5	6 11.43	+ 9 36.4	2.037	2.823	14.3	20.4
60562	2000 <i>EH</i> ₁₀₆		12 29.9 221°05'	5°3/31.1	18		358657	2007 <i>VZ</i> ₃₂₇		12 29.9 9°56'	5°7/29.5	18	
11 27	7 1.35	+ 7 38.0	1.946	2.751	14.2	19.2	11 27	7 6.09	+13 30.8	1.671	2.492	15.4	20.3
12 7	6 55.92	+ 7 29.7	1.868	2.749	11.2	19.0	12 7	6 59.53	+11 52.0	1.599	2.492	11.9	20.1
12 17	6 48.37	+ 7 35.6	1.813	2.747	8.0	18.8	12 17	6 50.50	+10 18.3	1.551	2.493	8.3	19.9
12 27	6 39.43	+ 7 56.7	1.785	2.744	5.6	18.7	12 27	6 39.93	+ 8 54.3	1.531	2.494	5.8	19.8
1 6	6 30.09	+ 8 32.3	1.785	2.742	5.9	18.7	1 6	6 29.09	+ 7 44.4	1.539	2.495	6.8	19.8
1 16	6 21.42	+ 9 20.0	1.814	2.740	8.6	18.9	1 16	6 19.24	+ 6 51.7	1.576	2.496	10.1	20.0
1 26	6 14.40	+10 16.3	1.869	2.737	11.8	19.1	1 26	6 11.49	+ 6 16.8	1.637	2.497	13.6	20.2
2 5	6 9.70	+11 17.5	1.947	2.735	14.8	19.3	2 5	6 6.50	+ 5 58.0	1.720	2.498	16.8	20.5
300478	2007 <i>TT</i> ₁₂₀		12 29.9 113°58'	3°8/30.4	18		116966	2004 <i>HH</i> ₁₀	</				

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
373067	2011 <i>FD</i> ₅₁		12 29.9 277°03	4.8/31.0	18		164894	1999 <i>VR</i> ₁₀₇		12 29.9 318°58	2.2/29.6	17	
11 27	6 58.70	+ 7 43.0	2.358	3.158	12.2	21.2	11 27	7 3.69	+26 19.5	1.567	2.412	15.1	20.1
12 7	6 53.69	+ 7 29.1	2.276	3.153	9.6	21.0	12 7	6 58.49	+27 0.6	1.488	2.402	11.2	19.9
12 17	6 46.96	+ 7 26.7	2.218	3.149	6.9	20.8	12 17	6 50.29	+27 43.0	1.433	2.392	6.8	19.6
12 27	6 39.11	+ 7 36.6	2.188	3.145	5.0	20.7	12 27	6 40.00	+28 21.7	1.403	2.383	2.6	19.3
1 6	6 30.96	+ 7 58.8	2.187	3.140	5.3	20.7	1 6	6 29.03	+28 52.2	1.401	2.374	4.4	19.4
1 16	6 23.33	+ 8 31.7	2.214	3.136	7.5	20.8	1 16	6 18.94	+29 12.0	1.426	2.365	9.1	19.6
1 26	6 17.01	+ 9 13.1	2.269	3.132	10.2	21.0	1 26	6 11.17	+29 21.6	1.476	2.357	13.5	19.9
2 5	6 12.58	+10 0.2	2.348	3.127	12.8	21.2	2 5	6 6.64	+29 23.3	1.546	2.349	17.3	20.1
474154	1998 <i>UU</i> ₅₀		12 29.9 55°89	5.0/29.1	18		414678	2009 <i>WN</i> ₁₀₇		12 29.9 79°60	0.6/29.9	18	
11 27	7 8.20	+31 17.2	1.360	2.205	16.9	21.3	11 27	7 2.69	+23 56.0	2.126	2.955	12.2	21.3
12 7	7 2.06	+32 27.9	1.305	2.215	12.7	21.1	12 7	6 56.77	+24 18.4	2.063	2.969	8.9	21.1
12 17	6 52.40	+33 34.3	1.272	2.225	8.3	20.8	12 17	6 48.80	+24 41.9	2.025	2.983	5.2	20.9
12 27	6 40.42	+34 27.7	1.264	2.236	5.1	20.7	12 27	6 39.58	+25 3.8	2.015	2.997	1.3	20.7
1 6	6 27.95	+35 1.8	1.283	2.247	6.6	20.8	1 6	6 30.13	+25 21.9	2.036	3.011	2.9	20.8
1 16	6 16.88	+35 14.9	1.328	2.258	10.6	21.1	1 16	6 21.50	+25 35.1	2.086	3.025	6.7	21.1
1 26	6 8.81	+35 10.4	1.397	2.269	14.7	21.3	1 26	6 14.59	+25 43.8	2.164	3.039	10.1	21.3
2 5	6 4.56	+34 53.7	1.485	2.281	18.2	21.6	2 5	6 9.99	+25 48.8	2.265	3.052	12.9	21.6
53321	1999 <i>JL</i> ₁₂		12 29.9 306°19	4.3/30.8	18		399893	2005 <i>WB</i> ₇₈		12 29.9 91°80	1.2/29.8	18	
11 27	7 0.49	+11 2.2	1.803	2.624	14.5	18.8	11 27	7 5.00	+25 47.6	2.198	3.023	12.1	21.4
12 7	6 55.58	+11 0.4	1.717	2.612	11.2	18.6	12 7	6 58.32	+26 12.2	2.143	3.047	8.8	21.3
12 17	6 48.32	+11 11.3	1.654	2.599	7.6	18.3	12 17	6 49.62	+26 35.9	2.113	3.070	5.2	21.1
12 27	6 39.47	+11 35.5	1.618	2.587	4.7	18.1	12 27	6 39.76	+26 55.8	2.113	3.094	1.6	20.9
1 6	6 30.08	+12 11.8	1.609	2.575	5.2	18.1	1 6	6 29.76	+27 10.0	2.143	3.117	3.1	21.0
1 16	6 21.31	+12 57.9	1.628	2.563	8.6	18.3	1 16	6 20.65	+27 17.7	2.203	3.139	6.6	21.3
1 26	6 14.28	+13 50.5	1.673	2.552	12.4	18.5	1 26	6 13.32	+27 19.8	2.291	3.161	9.8	21.5
2 5	6 9.77	+14 46.3	1.741	2.541	15.8	18.7	2 5	6 8.32	+27 17.7	2.403	3.183	12.5	21.8
317681	2003 <i>KQ</i> ₇		12 29.9 230°54	3.0/30.1	18		329087	2011 <i>BK</i> ₅₄		12 29.9 67°34	1.2/29.7	18	
11 27	7 2.34	+15 34.6	2.355	3.169	11.7	20.1	11 27	7 2.86	+24 19.9	2.037	2.868	12.6	20.5
12 7	6 56.34	+14 52.0	2.268	3.162	8.9	19.9	12 7	6 57.06	+25 4.7	1.972	2.880	9.2	20.3
12 17	6 48.49	+14 13.4	2.207	3.155	5.8	19.7	12 17	6 49.06	+25 51.2	1.932	2.891	5.4	20.1
12 27	6 39.48	+13 39.9	2.175	3.147	3.2	19.5	12 27	6 39.66	+26 35.6	1.921	2.902	1.7	19.8
1 6	6 30.17	+13 12.5	2.173	3.139	4.0	19.5	1 6	6 29.95	+27 14.6	1.940	2.914	3.3	20.0
1 16	6 21.47	+12 51.9	2.202	3.132	7.0	19.7	1 16	6 21.03	+27 46.1	1.988	2.925	7.1	20.2
1 26	6 14.22	+12 38.2	2.258	3.123	10.1	19.9	1 26	6 13.90	+28 9.8	2.063	2.937	10.6	20.5
2 5	6 9.00	+12 31.0	2.338	3.115	12.9	20.1	2 5	6 9.21	+28 26.9	2.162	2.949	13.5	20.7
232950	2005 <i>EU</i> ₉		12 29.9 322°57	1.7/29.8	18		324164	2005 <i>YZ</i> ₂₅₅		12 29.9 226°17	0.6/29.9	18	
11 27	7 1.74	+27 51.3	2.121	2.953	12.1	20.5	11 27	7 2.17	+24 1.9	2.197	3.026	11.9	21.1
12 7	6 56.28	+28 4.4	2.039	2.947	9.0	20.3	12 7	6 56.48	+24 20.9	2.118	3.024	8.8	20.9
12 17	6 48.62	+28 15.4	1.983	2.940	5.4	20.1	12 17	6 48.71	+24 40.9	2.063	3.022	5.1	20.7
12 27	6 39.53	+28 21.4	1.954	2.934	2.1	19.8	12 27	6 39.59	+24 59.6	2.038	3.019	1.3	20.4
1 6	6 30.06	+28 20.8	1.955	2.928	3.4	19.9	1 6	6 30.11	+25 15.0	2.042	3.017	2.9	20.5
1 16	6 21.32	+28 13.0	1.985	2.922	7.1	20.1	1 16	6 21.29	+25 25.9	2.076	3.014	6.7	20.8
1 26	6 14.32	+27 59.3	2.041	2.916	10.6	20.3	1 26	6 14.11	+25 32.5	2.137	3.012	10.2	21.0
2 5	6 9.73	+27 41.7	2.121	2.911	13.6	20.5	2 5	6 9.20	+25 35.7	2.222	3.009	13.2	21.2
346310	2008 <i>QS</i> ₁₂		12 29.9 131°80	0.8/29.9	16		331679	2002 <i>QG</i> ₁₃		12 29.9 88°88	5.1/31.1	17	
11 27	7 7.82	+24 31.7	1.859	2.686	13.8	22.4	11 27	6 59.39	+ 6 48.1	2.334	3.129	12.4	21.3
12 7	7 0.74	+24 47.2	1.794	2.700	10.1	22.2	12 7	6 54.12	+ 6 29.9	2.266	3.139	9.8	21.1
12 17	6 51.18	+25 2.8	1.754	2.712	5.9	22.0	12 17	6 47.17	+ 6 23.7	2.222	3.149	7.2	21.0
12 27	6 40.11	+25 15.5	1.743	2.724	1.5	21.7	12 27	6 39.21	+ 6 30.7	2.206	3.159	5.3	20.9
1 6	6 28.78	+25 23.2	1.761	2.736	3.3	21.8	1 6	6 31.04	+ 6 50.4	2.219	3.169	5.5	20.9
1 16	6 18.47	+25 25.3	1.808	2.747	7.6	22.1	1 16	6 23.49	+ 7 21.4	2.261	3.179	7.6	21.0
1 26	6 10.28	+25 22.7	1.883	2.757	11.4	22.4	1 26	6 17.31	+ 8 1.2	2.329	3.188	10.1	21.2
2 5	6 4.87	+25 17.2	1.980	2.766	14.6	22.6	2 5	6 13.01	+ 8 46.9	2.421	3.198	12.5	21.4
240723	2005 <i>GA</i> ₁₇₂		12 29.9 243°00	1.3/29.7	18		239088	2006 <i>HW</i> ₁₄		12 29.9 73°66	1.8/30.2	18	
11 27	7 1.02	+26 26.8	2.627	3.451	10.3	20.5	11 27	7 4.48	+18 26.9	1.618	2.453	15.2	20.6
12 7	6 55.43	+26 53.9	2.540	3.443	7.6	20.4	12 7	6 58.50	+18 21.7	1.556	2.464	11.2	20.4
12 17	6 48.01	+27 20.8	2.478	3.434	4.5	20.1	12 17	6 49.97	+18 22.4	1.518	2.475	6.8	20.2
12 27	6 39.39	+27 44.8	2.446	3.426	1.6	19.9	12 27	6 39.88	+18 28.0	1.506	2.486	2.4	19.9
1 6	6 30.41	+28 3.8	2.444	3.417	2.9	20.0	1 6	6 29.52	+18 37.1	1.522	2.497	3.8	20.1
1 16	6 21.93	+28 16.8	2.473	3.407	6.1	20.2	1 16	6 20.20	+18 48.4	1.567	2.508	8.2	20.3
1 26	6 14.81	+28 23.9	2.530	3.398	9.1	20.4	1 26	6 13.05	+19 1.4	1.637	2.519	12.3	20.6
2 5	6 9.66	+28 26.3	2.611	3.389	11.7	20.5	2 5	6 8.74	+19 15.4	1.728	2.530	15.8	20.9
196815	2003 <i>SN</i> ₂₂₇		12 29.9 137°45	1.0/30.1	18		332579	2008 <i>SD</i> ₈₂		12 29.9 61°13	1.6/29.7	17	
11 27	7 1.31	+19 41.1	2.551	3.370	10.8	20.3	11 27	7 2.27	+26 36.3	2.137	2.968	12.1	20.8
12 7	6 55.44	+19 36.6	2.478	3.378	7.9	20.2	12 7	6 56.54	+27 6.9	2.073	2.980	8.9	20.7
12 17	6 47.90	+19 35.0	2.431	3.387	4.7	20.0	12 17	6 48.71	+27 36.8	2.034	2.991	5.3	20.5
12 27	6 39.35	+19 35.3	2.414	3.394	1.5	19.8	12 27	6 39.59	+28 2.7	2.023	3.003	1.9	20.3
1 6	6 30.60	+19 36.8	2.427	3.402	2.6	19.9	1 6	6 30.21	+28 22.1	2.042	3.015	3.3	20.4
1 16	6 22.48	+19 39.1	2.471	3.409	5.9	20.1	1 16	6 21.62	+28 34.1	2.090	3.026	6.9	20.6
1 26	6 15.74	+19 42.1	2.544	3.416	8.9	20.3	1 26	6 14.78	+28 39.2	2.165	3.038	10.2	20.8
2 5	6 10.89	+19 45.7	2.641	3.422	11.5	20.5	2 5	6 10.28	+28 39.0	2.264	3.050	13.0	21.1
288773	2004 <i>RN</i> ₉₈		12 29.9 68°48	2.3/30.3	18		475906	2007 <i>DQ</i> ₈₀		12 29.9 5°31	1.9/30.3	18	
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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
462368	2008 <i>SK</i> ₆₀		12 29.9 18°48'	3°0'/30.2	16		44887	1999 <i>VF</i> ₅		12 29.9 89°70'	1°2'/30.2	18	
11 27	7 5.60	+33 7.4	1.709	2.544	14.5	20.2	11 27	7 4.28	+19 23.7	1.726	2.559	14.5	18.6
12 7	6 59.32	+32 42.2	1.646	2.552	10.9	20.0	12 7	6 58.31	+19 27.7	1.660	2.568	10.7	18.4
12 17	6 50.40	+32 7.2	1.606	2.560	6.8	19.8	12 17	6 49.88	+19 36.7	1.618	2.576	6.4	18.2
12 27	6 39.97	+31 20.3	1.594	2.570	3.4	19.6	12 27	6 39.91	+19 49.2	1.603	2.584	2.0	17.9
1 6	6 29.46	+30 21.7	1.610	2.580	4.4	19.7	1 6	6 29.62	+20 3.4	1.617	2.592	3.5	18.0
1 16	6 20.22	+29 14.8	1.654	2.592	8.2	19.9	1 16	6 20.29	+20 17.9	1.659	2.601	7.9	18.3
1 26	6 13.37	+28 4.3	1.724	2.604	12.0	20.2	1 26	6 13.01	+20 32.3	1.727	2.609	11.9	18.6
2 5	6 9.48	+26 55.0	1.817	2.617	15.2	20.4	2 5	6 8.46	+20 46.2	1.818	2.617	15.2	18.8
172930	2005 <i>HZ</i> ₃		12 29.9 249°05'	6°2'/27.4	18		414367	2008 <i>UO</i> ₁₅		12 29.9 5°81'	10°3'/31.1	16	
11 27	7 11.28	+35 34.5	2.084	2.896	13.1	20.5	11 27	6 56.63	+0 57.7	1.524	2.329	17.4	19.9
12 7	7 4.12	+37 35.8	1.996	2.882	10.3	20.3	12 7	6 52.84	-0 22.1	1.465	2.330	14.6	19.7
12 17	6 53.77	+39 34.9	1.935	2.868	7.6	20.1	12 17	6 46.74	-1 21.1	1.427	2.333	12.1	19.5
12 27	6 40.92	+41 22.2	1.903	2.853	6.2	20.0	12 27	6 39.18	-1 53.4	1.411	2.337	10.4	19.5
1 6	6 26.86	+42 49.1	1.902	2.838	7.5	20.0	1 6	6 31.30	-1 56.8	1.419	2.343	10.6	19.5
1 16	6 13.21	+43 51.0	1.931	2.822	10.2	20.1	1 16	6 24.28	-1 32.2	1.451	2.350	12.4	19.6
1 26	6 1.61	+44 28.4	1.985	2.806	13.2	20.3	1 26	6 19.15	-0 44.3	1.505	2.358	15.0	19.8
2 5	5 53.23	+44 46.0	2.061	2.790	15.9	20.5	2 5	6 16.59	+0 20.1	1.579	2.368	17.6	20.0
124028	2001 <i>FB</i> ₁₁₉		12 29.9 330°23'	1°1'/30.1	17		252670	2002 <i>AD</i> ₃₆		12 29.9 358°39'	0°5'/29.9	17	
11 27	7 1.90	+21 0.2	2.020	2.851	12.7	19.3	11 27	7 0.58	+20 57.9	1.445	2.296	15.8	19.7
12 7	6 56.34	+20 39.5	1.940	2.847	9.4	19.0	12 7	6 56.24	+21 51.9	1.375	2.292	11.6	19.4
12 17	6 48.65	+20 20.5	1.886	2.843	5.6	18.8	12 17	6 48.99	+22 54.2	1.328	2.290	6.8	19.1
12 27	6 39.60	+20 2.7	1.859	2.840	1.7	18.5	12 27	6 39.75	+23 59.9	1.306	2.288	1.6	18.8
1 6	6 30.23	+19 46.1	1.862	2.837	3.2	18.6	1 6	6 29.91	+25 3.4	1.312	2.288	3.9	18.9
1 16	6 21.61	+19 30.9	1.894	2.834	7.1	18.9	1 16	6 20.97	+26 0.1	1.344	2.289	8.9	19.2
1 26	6 14.72	+19 17.6	1.952	2.831	10.8	19.1	1 26	6 14.34	+26 47.9	1.401	2.291	13.5	19.5
2 5	6 10.19	+19 7.0	2.034	2.829	14.0	19.3	2 5	6 10.86	+27 26.4	1.478	2.294	17.3	19.8
486487	2013 <i>GP</i> ₈₃		12 29.9 240°68'	3°2'/29.2	18		259437	2003 <i>SY</i> ₂₈		12 29.9 13°32'	0°6'/29.9	18	
11 27	7 5.34	+30 46.1	2.258	3.081	11.9	21.9	11 27	7 6.89	+25 34.3	1.188	2.043	18.2	19.9
12 7	6 59.05	+31 36.0	2.169	3.068	8.9	21.7	12 7	7 1.23	+25 19.0	1.125	2.044	13.5	19.6
12 17	6 50.37	+32 23.6	2.105	3.056	5.7	21.5	12 17	6 51.98	+25 1.6	1.083	2.045	7.9	19.3
12 27	6 40.04	+33 4.1	2.070	3.043	3.3	21.3	12 27	6 40.44	+24 39.6	1.066	2.048	2.0	18.9
1 6	6 29.12	+33 33.8	2.066	3.029	4.5	21.4	1 6	6 28.45	+24 12.0	1.074	2.050	4.4	19.1
1 16	6 18.80	+33 50.9	2.091	3.015	7.7	21.5	1 16	6 17.94	+23 40.4	1.107	2.054	10.2	19.4
1 26	6 10.20	+33 56.1	2.143	3.001	10.9	21.7	1 26	6 10.49	+23 8.1	1.164	2.057	15.3	19.7
2 5	6 4.12	+33 52.1	2.218	2.987	13.8	21.9	2 5	6 6.89	+22 38.0	1.239	2.062	19.6	20.0
194314	2001 <i>UH</i> ₉₅		12 29.9 307°53'	2°3'/29.8	18		281371	2008 <i>FC</i> ₇₆		12 29.9 43°63'	1°4'/30.9	17	
11 27	7 5.47	+27 44.8	1.442	2.289	16.0	19.8	11 27	6 44.70	+6 16.0	11.507	12.281	2.9	20.4
12 7	7 0.03	+28 0.7	1.362	2.276	12.0	19.5	12 7	6 42.57	+6 5.1	11.438	12.295	2.3	20.3
12 17	6 51.30	+28 14.5	1.305	2.264	7.3	19.2	12 17	6 40.16	+5 56.8	11.395	12.309	1.8	20.3
12 27	6 40.29	+28 21.7	1.272	2.252	2.7	18.9	12 27	6 37.60	+5 51.3	11.383	12.323	1.4	20.2
1 6	6 28.57	+28 18.9	1.267	2.241	4.6	19.0	1 6	6 35.00	+5 48.4	11.400	12.337	1.4	20.2
1 16	6 17.89	+28 5.7	1.288	2.229	9.6	19.2	1 16	6 32.50	+5 48.1	11.448	12.351	1.9	20.3
1 26	6 9.81	+27 44.5	1.333	2.218	14.4	19.5	1 26	6 30.21	+5 50.3	11.525	12.365	2.5	20.3
2 5	6 5.26	+27 18.9	1.398	2.208	18.4	19.7	2 5	6 28.25	+5 54.5	11.628	12.379	3.0	20.4
412535	2014 <i>MR</i> ₄₃		12 29.9 267°34'	0°9'/30.3	17		90657	2414 <i>T</i> ₋₃		12 29.9 101°47'	0°4'/30.1	18	
11 27	7 3.90	+17 38.9	1.873	2.700	13.8	21.2	11 27	7 4.22	+21 39.9	2.118	2.944	12.4	19.8
12 7	6 58.20	+18 26.3	1.783	2.687	10.3	21.0	12 7	6 57.80	+21 40.6	2.057	2.961	9.1	19.6
12 17	6 49.98	+19 23.6	1.717	2.674	6.2	20.7	12 17	6 49.38	+21 43.2	2.020	2.978	5.3	19.4
12 27	6 39.97	+20 27.6	1.680	2.661	1.8	20.4	12 27	6 39.77	+21 46.3	2.013	2.995	1.3	19.2
1 6	6 29.27	+21 34.1	1.672	2.647	3.3	20.5	1 6	6 30.01	+21 48.7	2.035	3.011	2.8	19.3
1 16	6 19.13	+22 38.8	1.693	2.634	7.8	20.7	1 16	6 21.10	+21 49.9	2.088	3.027	6.7	19.6
1 26	6 10.78	+23 38.9	1.742	2.620	12.0	20.9	1 26	6 13.94	+21 50.1	2.168	3.043	10.1	19.8
2 5	6 5.07	+24 33.2	1.814	2.606	15.5	21.1	2 5	6 9.09	+21 49.9	2.271	3.058	12.9	20.1
409289	2004 <i>RR</i> ₂₉₃		12 29.9 163°86'	4°8'/30.9	17		107391	2001 <i>CW</i> ₄₅		12 29.9 238°26'	1°3'/29.6	18	
11 27	7 0.46	+8 50.7	2.186	2.990	12.9	22.1	11 27	7 5.25	+23 0.3	1.788	2.621	14.0	19.7
12 7	6 55.07	+8 29.7	2.110	2.991	10.1	22.0	12 7	6 59.30	+24 5.4	1.710	2.619	10.3	19.4
12 17	6 47.83	+8 19.8	2.058	2.992	7.2	21.8	12 17	6 50.66	+25 15.9	1.657	2.616	6.1	19.2
12 27	6 39.41	+8 22.2	2.034	2.993	5.0	21.6	12 27	6 40.15	+26 26.5	1.632	2.613	1.8	18.9
1 6	6 30.70	+8 36.7	2.038	2.994	5.4	21.7	1 6	6 29.00	+27 31.7	1.637	2.611	3.8	19.0
1 16	6 22.60	+9 2.1	2.071	2.995	7.8	21.8	1 16	6 18.59	+28 27.5	1.670	2.608	8.2	19.3
1 26	6 15.98	+9 36.3	2.131	2.995	10.7	22.0	1 26	6 10.21	+29 12.4	1.731	2.605	12.3	19.5
2 5	6 11.41	+10 16.3	2.215	2.996	13.4	22.2	2 5	6 4.71	+29 47.4	1.813	2.602	15.7	19.7
408378	2013 <i>GB</i> ₉₈		12 29.9 232°49'	2°3'/29.4	17		438576	2007 <i>UH</i> ₅₂		12 29.9 95°38'	1°5'/30.2	18	
11 27	7 4.62	+27 3.9	2.109	2.937	12.4	21.3	11 27	7 6.67	+18 59.9	1.975	2.796	13.4	22.0
12 7	6 58.56	+28 1.3	2.026	2.931	9.2	21.1	12 7	6 59.55	+18 52.0	1.922	2.823	9.8	21.8
12 17	6 50.10	+28 59.7	1.969	2.925	5.6	20.9	12 17	6 50.36	+18 48.1	1.895	2.850	5.9	21.6
12 27	6 39.99	+29 54.1	1.940	2.918	2.5	20.6	12 27	6 39.99	+18 47.2	1.896	2.876	2.0	21.4
1 6	6 29.30	+30 40.4	1.942	2.911	4.0	20.7	1 6	6 29.57	+18 48.3	1.928	2.902	3.3	21.6
1 16	6 19.25	+31 15.9	1.973	2.904	7.6	20.9	1 16	6 20.16	+18 51.0	1.989	2.927	7.1	21.8
1 26	6 10.96	+31 40.5	2.031	2.897	11.1	21.1	1 26	6 12.67	+18 55.0	2.078	2.951	10.5	22.1
2 5	6 5.22	+31 55.9	2.113	2.890	14.1	21.3	2 5	6 7.63	+19 0.4	2.190	2.975	13.4	22.3
257840	2000 <i>KY</i> ₆		12 29.9 210°03'	0°0'/29.9	17		494130	2016 <i>CJ</i> ₁₆₆		12 29.9 90°15'	2°1'/29.8	17	
11 27													