

EPHEMERIDES

12 24.9

12 25.0

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
266886	2009 VB ₁₁₂		12 24.9 120°61	3:4/25.5	18		393405	2000 YA ₇₆		12 24.9 36°70	3:1/24.7	17	
11 17	6 40.29	+11 47.7	2.329	3.096	13.4	20.4	11 17	6 45.59	+20 56.4	1.310	2.121	19.6	19.3
11 27	6 35.86	+11 47.4	2.245	3.100	10.7	20.2	11 27	6 41.21	+19 41.9	1.251	2.136	15.3	19.1
12 7	6 29.42	+11 55.7	2.183	3.104	7.7	20.0	12 7	6 33.49	+18 27.4	1.212	2.152	10.5	18.8
12 17	6 21.48	+12 13.2	2.147	3.108	4.7	19.8	12 17	6 23.39	+17 15.7	1.196	2.169	5.4	18.6
12 27	6 12.81	+12 39.5	2.141	3.112	3.4	19.8	12 27	6 12.42	+16 10.5	1.208	2.186	3.4	18.5
1 6	6 4.33	+13 13.1	2.165	3.116	5.5	19.9	1 6	6 2.24	+15 15.4	1.245	2.204	7.5	18.8
1 16	5 56.89	+13 52.5	2.218	3.120	8.5	20.1	1 16	5 54.21	+14 33.2	1.309	2.223	12.2	19.2
1 26	5 51.19	+14 35.7	2.296	3.124	11.4	20.3	1 26	5 49.24	+14 4.6	1.394	2.242	16.2	19.5
336805	2011 DV ₂		12 24.9 223°52	0°6/25.0	18		216547	2001 SS ₃₀₅		12 24.9 179°78	1°5/25.0	18	
11 17	6 46.11	+21 23.5	1.658	2.451	16.9	21.5	11 17	6 43.10	+19 25.3	2.233	3.010	13.5	20.9
11 27	6 41.52	+21 28.9	1.570	2.447	13.3	21.3	11 27	6 38.20	+19 10.7	2.144	3.011	10.6	20.7
12 7	6 33.82	+21 38.0	1.504	2.441	9.0	21.0	12 7	6 31.07	+18 58.7	2.079	3.012	7.3	20.5
12 17	6 23.67	+21 49.2	1.462	2.436	4.2	20.7	12 17	6 22.27	+18 49.2	2.040	3.012	3.6	20.3
12 27	6 12.24	+22 0.4	1.448	2.430	1.2	20.5	12 27	6 12.68	+18 42.0	2.031	3.012	1.7	20.1
1 6	6 1.02	+22 10.2	1.462	2.424	6.2	20.8	1 6	6 3.31	+18 37.0	2.052	3.011	5.0	20.4
1 16	5 51.42	+22 18.6	1.504	2.418	10.9	21.1	1 16	5 55.13	+18 34.6	2.103	3.010	8.6	20.6
1 26	5 44.56	+22 26.3	1.569	2.412	15.1	21.3	1 26	5 48.90	+18 34.9	2.179	3.009	11.8	20.8
8280	Petergruber		12 24.9 54°76	0°4/25.0	18		267594	2002 RC ₄₁		12 24.9 57°78	2°5/24.9	18	
11 17	6 42.83	+21 34.7	2.017	2.803	14.5	18.4	11 17	6 48.92	+27 36.9	1.271	2.081	20.1	19.9
11 27	6 38.01	+21 43.5	1.957	2.830	11.2	18.2	11 27	6 44.28	+28 2.6	1.217	2.101	15.7	19.7
12 7	6 30.86	+21 54.9	1.920	2.857	7.5	18.0	12 7	6 35.82	+28 26.8	1.181	2.122	10.6	19.5
12 17	6 22.10	+22 7.3	1.910	2.884	3.4	17.8	12 17	6 24.54	+28 44.5	1.170	2.143	5.3	19.2
12 27	6 12.70	+22 19.2	1.928	2.911	0.9	17.7	12 27	6 12.14	+28 51.3	1.184	2.164	2.8	19.1
1 6	6 3.77	+22 29.7	1.977	2.938	4.9	18.0	1 6	6 0.58	+28 46.6	1.224	2.185	7.3	19.5
1 16	5 56.25	+22 38.7	2.053	2.966	8.6	18.3	1 16	5 51.47	+28 32.7	1.290	2.207	12.1	19.8
1 26	5 50.87	+22 46.8	2.155	2.993	11.7	18.6	1 26	5 45.88	+28 14.0	1.378	2.228	16.3	20.1
10274	Larryevans		12 24.9 43°12	8°9/25.0	18		123504	2000 WE ₁₈₁		12 24.9 282°71	4°0/24.8	18	
11 17	6 51.40	+45 29.9	1.840	2.597	16.7	17.7	11 17	6 40.96	+14 10.7	2.115	2.891	14.2	19.7
11 27	6 46.19	+46 30.0	1.769	2.602	14.2	17.5	11 27	6 36.71	+13 23.5	2.017	2.879	11.4	19.5
12 7	6 37.17	+47 16.5	1.719	2.607	11.6	17.4	12 7	6 30.19	+12 40.7	1.942	2.867	8.3	19.3
12 17	6 25.20	+47 40.9	1.692	2.612	9.5	17.3	12 17	6 21.93	+12 4.3	1.893	2.855	5.2	19.1
12 27	6 11.89	+47 36.9	1.691	2.618	8.9	17.2	12 27	6 12.77	+11 36.3	1.873	2.843	4.1	19.0
1 6	5 59.20	+47 3.9	1.715	2.624	10.2	17.3	1 6	6 3.75	+11 17.8	1.882	2.830	6.5	19.1
1 16	5 48.83	+46 6.2	1.765	2.630	12.5	17.5	1 16	5 55.85	+11 9.5	1.919	2.818	9.8	19.3
1 26	5 41.95	+44 52.0	1.837	2.636	15.0	17.7	1 26	5 49.90	+11 10.8	1.980	2.806	13.1	19.5
401048	2011 UK		12 24.9 137°08	4°6/25.6	18		461045	2014 XO ₈		12 24.9 34°56	1°7/25.4	18	
11 17	6 43.34	+ 9 20.2	2.132	2.891	14.7	22.0	11 17	6 42.30	+14 49.5	1.753	2.541	16.3	19.6
11 27	6 38.32	+ 9 6.5	2.054	2.902	11.9	21.8	11 27	6 38.07	+15 39.8	1.686	2.558	12.8	19.4
12 7	6 31.09	+ 9 3.4	1.997	2.911	8.7	21.6	12 7	6 31.22	+16 41.6	1.642	2.576	8.7	19.2
12 17	6 22.25	+ 9 12.0	1.967	2.921	5.8	21.5	12 17	6 22.40	+17 52.3	1.623	2.595	4.3	19.0
12 27	6 12.65	+ 9 32.5	1.966	2.930	4.7	21.4	12 27	6 12.67	+19 7.9	1.633	2.614	1.8	18.9
1 6	6 3.31	+10 3.9	1.994	2.938	6.5	21.5	1 6	6 3.27	+20 23.7	1.672	2.634	5.6	19.2
1 16	5 55.17	+10 44.1	2.050	2.946	9.5	21.7	1 16	5 55.35	+21 36.2	1.739	2.654	9.7	19.5
1 26	5 48.99	+11 30.5	2.132	2.953	12.4	21.9	1 26	5 49.78	+22 43.2	1.832	2.675	13.2	19.7
22460	1997 AJ ₂		12 24.9 358°77	0°9/25.1	18		204862	2007 RC ₂₀₆		12 24.9 22°75	0°8/24.9	18	
11 17	6 43.48	+19 44.0	1.307	2.120	19.4	17.5	11 17	6 44.35	+24 43.5	1.652	2.450	16.7	20.3
11 27	6 40.15	+20 1.2	1.232	2.119	15.4	17.2	11 27	6 40.12	+24 53.9	1.572	2.452	13.1	20.1
12 7	6 33.26	+20 26.3	1.176	2.118	10.4	16.9	12 7	6 32.84	+25 5.2	1.513	2.453	8.8	19.8
12 17	6 23.51	+20 57.4	1.142	2.118	4.9	16.6	12 17	6 23.22	+25 14.8	1.480	2.455	4.1	19.6
12 27	6 12.30	+21 31.0	1.135	2.118	1.5	16.4	12 27	6 12.46	+25 20.3	1.474	2.456	1.3	19.4
1 6	6 1.39	+22 4.3	1.154	2.118	7.0	16.8	1 6	6 2.03	+25 20.6	1.496	2.458	6.0	19.7
1 16	5 52.45	+22 35.3	1.198	2.119	12.4	17.1	1 16	5 53.29	+25 16.5	1.545	2.461	10.6	20.0
1 26	5 46.74	+23 3.9	1.263	2.121	17.0	17.3	1 26	5 47.28	+25 9.9	1.618	2.463	14.5	20.2
210589	1999 XU ₄₀		12 24.9 24°43	0°4/24.9	18		111982	2002 GA ₉₅		12 24.9 151°26	1°6/24.9	18	
11 17	6 41.52	+23 54.3	1.040	1.876	21.7	19.0	11 17	6 50.24	+27 28.4	1.656	2.444	17.1	20.1
11 27	6 38.83	+23 34.2	0.996	1.896	16.9	18.8	11 27	6 44.69	+27 34.5	1.578	2.450	13.4	19.9
12 7	6 32.25	+23 14.9	0.969	1.918	11.3	18.5	12 7	6 35.87	+27 38.3	1.521	2.457	9.1	19.7
12 17	6 22.88	+22 55.3	0.964	1.941	5.1	18.3	12 17	6 24.57	+27 36.4	1.489	2.462	4.4	19.4
12 27	6 12.53	+22 35.0	0.983	1.966	1.3	18.1	12 27	6 12.13	+27 26.3	1.486	2.467	1.9	19.3
1 6	6 3.16	+22 15.0	1.026	1.993	7.3	18.6	1 6	6 0.17	+27 7.8	1.512	2.472	6.3	19.5
1 16	5 56.29	+21 57.0	1.093	2.020	12.6	19.0	1 16	5 50.12	+26 43.1	1.565	2.476	10.8	19.8
1 26	5 52.89	+21 42.9	1.180	2.049	17.1	19.3	1 26	5 43.04	+26 16.0	1.642	2.479	14.7	20.1
141079	2001 XS ₃₀		12 24.9 287°72	19°0/19.6	18		515781	2015 KF ₁₃₇		12 24.9 218°77	2°7/24.7	18	
11 17	7 37.78	+ 8 24.7	1.100	1.802	28.6	20.4	11 17	6 48.56	+27 57.2	1.747	2.534	16.3	22.5
11 27	7 30.00	+ 5 11.5	0.931	1.735	26.1	19.9	11 27	6 43.58	+28 36.6	1.656	2.528	13.0	22.3
12 7	7 13.97	+ 1 10.5	0.779	1.659	22.4	19.3	12 7	6 35.33	+29 16.4	1.587	2.521	8.9	22.0
12 17	6 46.55	- 3 48.6	0.651	1.575	19.2	18.7	12 17	6 24.44	+29 51.7	1.544	2.514	4.7	21.7
12 27	6 5.09	- 9 35.2	0.558	1.482	21.3	18.3	12 27	6 12.13	+30 17.8	1.529	2.507	2.9	21.6
1 6	5 10.72	-15 12.7	0.508	1.379	31.6	18.3	1 6	5 59.96	+30 31.9	1.542	2.499	6.6	21.8
1 16	4 11.36	-19 15.5	0.499	1.264	45.8	18.4	1 16	5 49.46	+30 34.4	1.583	2.490	11.0	22.1
1 26	3 17.23	-21 12.8	0.519	1.137	59.9	18.7	1 26	5 41.83	+30 28.5	1.649	2.482	14.9	22.3
402314	2005 TD ₁₂₃		12 24.9 15°33	1°1/24.9	17		226267	2003 AK ₅₄		12 25.0 344°76	2°4/24.9	18	
11 17	6 42.84	+25 45.6	1.902	2.694	1								

EPHEMERIDES

12 25.0

12 25.0

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
487396	2014 <i>QO</i> ₃₂₆		12 25.0	84°99	4.6/25.5	18	452316	1999 <i>XV</i> ₁₁₀		12 25.0	18°39	5.4/24.4	17
11 17	6 40.10	+ 9 44.1	2.203	2.968	14.1	21.2	11 17	6 40.33	+18 25.7	1.128	1.957	20.9	18.9
11 27	6 35.78	+ 9 21.6	2.124	2.975	11.4	21.0	11 27	6 37.36	+16 36.5	1.084	1.977	16.5	18.7
12 7	6 29.40	+ 9 8.6	2.067	2.982	8.4	20.8	12 7	6 30.98	+14 50.9	1.059	1.999	11.5	18.5
12 17	6 21.51	+ 9 6.5	2.036	2.990	5.7	20.7	12 17	6 22.28	+13 15.1	1.056	2.024	6.9	18.4
12 27	6 12.92	+ 9 16.1	2.034	2.997	4.6	20.6	12 27	6 12.84	+11 55.3	1.078	2.051	5.6	18.4
1 6	6 4.56	+ 9 36.8	2.061	3.004	6.4	20.7	1 6	6 4.31	+10 55.7	1.125	2.080	8.9	18.6
1 16	5 57.32	+10 7.0	2.115	3.011	9.2	20.9	1 16	5 57.98	+10 17.6	1.196	2.110	13.1	19.0
1 26	5 51.89	+10 44.5	2.195	3.018	12.0	21.1	1 26	5 54.68	+ 9 59.2	1.287	2.142	16.9	19.3
312725	2010 <i>RJ</i> ₈₂		12 25.0	33°23	3.5/25.2	18	350239	2012 <i>TJ</i> ₆₈		12 25.0	10°30	1.0/25.1	18
11 17	6 41.25	+14 32.6	1.841	2.627	15.7	21.0	11 17	6 40.84	+21 17.1	1.227	2.051	19.8	20.7
11 27	6 37.17	+14 11.0	1.762	2.630	12.5	20.8	11 27	6 38.17	+21 11.3	1.159	2.053	15.6	20.4
12 7	6 30.58	+13 56.7	1.704	2.633	8.8	20.6	12 7	6 31.94	+21 9.8	1.111	2.056	10.6	20.2
12 17	6 22.11	+13 50.8	1.671	2.637	5.1	20.3	12 17	6 22.94	+21 11.4	1.084	2.060	4.9	19.9
12 27	6 12.76	+13 53.6	1.666	2.641	3.6	20.3	12 27	6 12.62	+21 14.8	1.082	2.065	1.6	19.6
1 6	6 3.68	+14 4.7	1.690	2.645	6.4	20.4	1 6	6 2.78	+21 19.0	1.106	2.071	7.1	20.0
1 16	5 55.96	+14 23.2	1.740	2.649	10.1	20.7	1 16	5 55.02	+21 24.1	1.154	2.079	12.4	20.3
1 26	5 50.46	+14 47.7	1.815	2.653	13.5	20.9	1 26	5 50.49	+21 30.6	1.223	2.087	17.0	20.6
364984	2008 <i>HB</i> ₆₆		12 25.0	187°48	4.6/24.9	18	450128	2015 <i>RT</i> ₂₄₃		12 25.0	183°96	14.1/24.5	18
11 17	6 41.47	+10 40.7	2.426	3.185	13.1	21.3	11 17	7 16.20	+64 5.4	2.200	2.843	17.3	21.7
11 27	6 36.67	+ 9 50.8	2.337	3.184	10.6	21.1	11 27	7 8.44	+65 48.4	2.137	2.843	16.1	21.6
12 7	6 29.92	+ 9 7.2	2.271	3.184	7.9	21.0	12 7	6 53.92	+67 11.3	2.091	2.843	15.0	21.5
12 17	6 21.73	+ 8 32.1	2.232	3.183	5.5	20.8	12 17	6 33.46	+68 1.2	2.064	2.842	14.3	21.5
12 27	6 12.87	+ 8 7.3	2.223	3.181	4.7	20.8	12 27	6 9.96	+68 7.4	2.058	2.842	14.1	21.4
1 6	6 4.20	+ 7 53.8	2.243	3.180	6.4	20.9	1 6	5 47.59	+67 27.5	2.074	2.840	14.6	21.5
1 16	5 56.54	+ 7 51.6	2.291	3.178	9.1	21.0	1 16	5 29.96	+66 8.0	2.109	2.838	15.5	21.5
1 26	5 50.58	+ 7 59.6	2.365	3.175	11.7	21.2	1 26	5 18.89	+64 21.2	2.164	2.836	16.7	21.6
522333	2016 <i>CO</i> ₂₂₂		12 25.0	345°28	5.1/25.9	18	376456	2012 <i>HF</i> ₆₇		12 25.0	221°71	3.9/25.3	18
11 17	6 38.51	+ 7 32.1	2.173	2.936	14.3	20.6	11 17	6 39.64	+10 50.9	2.538	3.298	12.5	22.0
11 27	6 34.70	+ 7 23.1	2.085	2.933	11.7	20.4	11 27	6 35.27	+10 28.8	2.443	3.293	10.1	21.8
12 7	6 28.79	+ 7 26.0	2.019	2.930	8.8	20.3	12 7	6 29.02	+10 14.1	2.372	3.288	7.4	21.6
12 17	6 21.29	+ 7 42.5	1.978	2.927	6.2	20.1	12 17	6 21.37	+10 8.1	2.327	3.282	4.9	21.4
12 27	6 12.99	+ 8 12.8	1.965	2.925	5.1	20.0	12 27	6 13.02	+10 11.4	2.312	3.276	4.0	21.4
1 6	6 4.83	+ 8 55.8	1.980	2.923	6.7	20.1	1 6	6 4.80	+10 23.8	2.326	3.270	5.7	21.5
1 16	5 57.71	+ 9 48.9	2.024	2.921	9.5	20.3	1 16	5 57.48	+10 44.6	2.369	3.264	8.4	21.6
1 26	5 52.38	+10 49.0	2.093	2.919	12.4	20.5	1 26	5 51.75	+11 12.3	2.438	3.258	11.1	21.8
49005	1998 <i>QN</i> ₆₂		12 25.0	300°23	4.8/25.1	18	22077	2000 <i>AL</i> ₁₄₀		12 25.0	106°92	2.6/25.4	18
11 17	6 43.24	+14 15.0	1.467	2.265	18.4	18.4	11 17	6 46.27	+14 50.7	2.094	2.861	14.6	19.2
11 27	6 39.49	+13 32.5	1.384	2.258	14.9	18.1	11 27	6 40.55	+14 50.2	2.027	2.885	11.5	19.0
12 7	6 32.58	+12 57.4	1.320	2.251	10.7	17.8	12 7	6 32.55	+14 56.8	1.983	2.909	8.0	18.9
12 17	6 23.18	+12 32.4	1.280	2.245	6.5	17.6	12 17	6 22.93	+15 10.2	1.965	2.932	4.4	18.7
12 27	6 12.50	+12 19.5	1.266	2.238	4.9	17.5	12 27	6 12.66	+15 29.5	1.978	2.955	2.7	18.6
1 6	6 2.05	+12 19.3	1.278	2.232	8.1	17.6	1 6	6 2.79	+15 53.4	2.021	2.976	5.4	18.8
1 16	5 53.28	+12 31.4	1.316	2.226	12.5	17.9	1 16	5 54.28	+16 20.6	2.093	2.998	8.9	19.1
1 26	5 47.30	+12 54.0	1.376	2.220	16.7	18.1	1 26	5 47.86	+16 50.1	2.191	3.018	11.9	19.3
348713	2006 <i>DJ</i> ₁₇		12 25.0	101°52	3.9/24.8	18	232298	2002 <i>RN</i> ₂₃₆		12 25.0	23°38	0.4/25.0	17
11 17	6 49.02	+31 53.6	1.747	2.533	16.4	21.0	11 17	6 40.02	+21 37.8	1.777	2.577	15.6	20.3
11 27	6 43.71	+32 30.8	1.677	2.545	13.0	20.8	11 27	6 36.36	+21 44.4	1.706	2.587	12.2	20.1
12 7	6 35.20	+33 3.7	1.627	2.557	9.2	20.6	12 7	6 30.11	+21 54.3	1.658	2.598	8.2	19.8
12 17	6 24.27	+33 26.9	1.604	2.569	5.4	20.4	12 17	6 21.93	+22 5.8	1.634	2.609	3.7	19.6
12 27	6 12.26	+33 36.1	1.608	2.581	4.0	20.4	12 27	6 12.90	+22 17.4	1.639	2.621	1.0	19.4
1 6	6 0.74	+33 30.3	1.641	2.593	6.9	20.6	1 6	6 4.23	+22 28.1	1.671	2.634	5.4	19.8
1 16	5 51.12	+33 11.7	1.701	2.604	10.6	20.8	1 16	5 57.03	+22 37.7	1.731	2.648	9.5	20.0
1 26	5 44.43	+32 44.7	1.785	2.615	14.1	21.0	1 26	5 52.17	+22 46.5	1.814	2.662	13.1	20.3
488464	1997 <i>SD</i> ₇		12 25.0	112°15	4.1/24.8	17	329731	2003 <i>XZ</i> ₁₅		12 25.0	131°22	1.8/24.7	18
11 17	6 45.11	+35 33.0	2.428	3.195	12.8	21.7	11 17	6 42.68	+27 12.6	2.496	3.272	12.3	20.8
11 27	6 39.90	+36 4.7	2.348	3.203	10.3	21.5	11 27	6 37.86	+27 51.2	2.410	3.277	9.6	20.6
12 7	6 32.27	+36 30.4	2.291	3.210	7.5	21.4	12 7	6 30.87	+28 29.9	2.349	3.282	6.6	20.4
12 17	6 22.85	+36 46.2	2.262	3.218	5.0	21.2	12 17	6 22.25	+29 5.6	2.316	3.286	3.3	20.2
12 27	6 12.62	+36 49.1	2.261	3.225	4.1	21.2	12 27	6 12.82	+29 35.4	2.312	3.291	2.0	20.1
1 6	6 2.69	+36 38.4	2.290	3.232	5.9	21.3	1 6	6 3.55	+29 57.8	2.340	3.295	4.8	20.3
1 16	5 54.12	+36 15.9	2.347	3.239	8.7	21.5	1 16	5 55.39	+30 12.6	2.396	3.300	7.9	20.5
1 26	5 47.71	+35 44.8	2.430	3.245	11.3	21.7	1 26	5 49.09	+30 20.8	2.479	3.304	10.8	20.7
180380	2003 <i>YO</i> ₁₃₉		12 25.0	45°88	6.7/25.2	18 R	87204	2000 <i>OL</i> ₂₉		12 25.0	76°12	1.5/24.9	18
11 17	6 50.67	+36 15.0	1.178	1.987	21.4	19.3	11 17	6 47.66	+21 39.8	1.572	2.366	17.6	19.1
11 27	6 46.45	+36 56.9	1.124	2.002	17.2	19.1	11 27	6 42.40	+21 6.9	1.508	2.385	13.7	18.9
12 7	6 37.70	+37 28.2	1.088	2.018	12.6	18.9	12 7	6 34.13	+20 35.1	1.466	2.403	9.3	18.7
12 17	6 25.53	+37 40.1	1.073	2.034	8.3	18.7	12 17	6 23.72	+20 4.4	1.449	2.422	4.4	18.4
12 27	6 11.99	+37 26.5	1.083	2.050	6.8	18.6	12 27	6 12.50	+19 35.4	1.459	2.441	1.8	18.3
1 6	5 59.47	+36 47.9	1.118	2.068	9.6	18.8	1 6	6 1.92	+19 9.2	1.498	2.459	6.2	18.6
1 16	5 49.93	+35 51.0	1.176	2.085	13.8	19.1	1 16	5 53.25	+18 47.4	1.565	2.478	10.6	18.9
1 26	5 44.53	+34 45.0	1.255	2.103	17.7	19.4	1 26	5 47.35	+18 31.2	1.655	2.496	14.4	19.2
96511	1998 <i>QG</i> ₅₇		12 25.0	257°87	2.7/25.1	17	51317	2000 <i>KZ</i> ₇₅		12			

EPHEMERIDES

12 25.0

12 25.0

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
241092	2006 VR ₂		12 25.0 42°54	1.9°/25.3	18	R	268220	2005 CO ₆₇		12 25.0 338°13	0°1/25.1	18	
11 17	6 43.30	+16 38.0	1.515	2.314	17.9	19.6	11 17	6 40.85	+20 42.8	2.067	2.855	14.1	20.2
11 27	6 39.16	+17 0.6	1.457	2.335	14.0	19.4	11 27	6 36.87	+21 13.2	1.977	2.850	11.1	19.9
12 7	6 32.08	+17 32.6	1.419	2.357	9.5	19.1	12 7	6 30.47	+21 48.8	1.909	2.846	7.5	19.7
12 17	6 22.85	+18 12.3	1.406	2.379	4.7	18.9	12 17	6 22.18	+22 27.6	1.868	2.842	3.4	19.5
12 27	6 12.72	+18 56.6	1.420	2.402	2.1	18.8	12 27	6 12.90	+23 6.8	1.856	2.839	0.8	19.2
1 6	6 3.10	+19 42.4	1.462	2.425	6.1	19.1	1 6	6 3.74	+23 44.1	1.874	2.836	5.1	19.6
1 16	5 55.25	+20 27.3	1.531	2.448	10.5	19.4	1 16	5 55.76	+24 18.1	1.920	2.833	9.0	19.8
1 26	5 50.07	+21 9.9	1.623	2.472	14.3	19.7	1 26	5 49.87	+24 48.4	1.991	2.830	12.4	20.0
97515	2000 DW ₃		12 25.0 190°46	15°4/20.9	17		156118	2001 SO ₂₉₅		12 25.0 327°28	0°7/25.0	18	
11 17	7 3.53	+46 11.0	1.246	2.018	22.5	19.2	11 17	6 44.60	+24 43.0	1.450	2.258	18.1	20.2
11 27	6 59.41	+49 26.9	1.184	2.018	19.7	19.0	11 27	6 40.86	+24 47.8	1.368	2.253	14.3	20.0
12 7	6 48.81	+52 35.3	1.141	2.017	17.1	18.8	12 7	6 33.70	+24 53.5	1.306	2.248	9.7	19.7
12 17	6 31.76	+55 14.1	1.120	2.016	15.6	18.7	12 17	6 23.80	+24 57.3	1.268	2.243	4.5	19.4
12 27	6 10.28	+57 2.0	1.122	2.015	15.8	18.7	12 27	6 12.51	+24 56.9	1.256	2.239	1.3	19.1
1 6	5 48.36	+57 48.8	1.146	2.013	17.5	18.8	1 6	6 1.51	+24 51.2	1.272	2.235	6.7	19.5
1 16	5 30.34	+57 39.8	1.189	2.011	20.1	19.0	1 16	5 52.40	+24 41.5	1.313	2.232	11.8	19.7
1 26	5 19.15	+56 51.7	1.249	2.009	22.8	19.2	1 26	5 46.38	+24 30.2	1.376	2.228	16.2	20.0
477323	2009 TE ₁		12 25.0 76°68	1°8/24.9	18		81064	2000 EG ₇₁		12 25.0 180°03	1°3/25.1	18	
11 17	6 51.38	+25 29.9	1.455	2.250	18.7	21.3	11 17	6 46.95	+19 22.4	2.092	2.865	14.5	21.3
11 27	6 45.66	+26 6.9	1.402	2.279	14.5	21.1	11 27	6 41.43	+19 22.7	2.002	2.867	11.4	21.1
12 7	6 36.50	+26 44.8	1.369	2.307	9.8	20.9	12 7	6 33.41	+19 26.7	1.936	2.868	7.8	20.9
12 17	6 24.85	+27 18.6	1.361	2.335	4.6	20.7	12 17	6 23.48	+19 33.7	1.896	2.868	3.7	20.6
12 27	6 12.24	+27 44.0	1.381	2.362	2.1	20.6	12 27	6 12.61	+19 42.4	1.886	2.868	1.5	20.5
1 6	6 0.41	+27 59.0	1.429	2.390	6.6	21.0	1 6	6 1.95	+19 52.0	1.907	2.867	5.3	20.7
1 16	5 50.80	+28 4.9	1.504	2.416	11.1	21.3	1 16	5 52.60	+20 2.3	1.957	2.865	9.2	21.0
1 26	5 44.39	+28 4.5	1.602	2.443	14.9	21.6	1 26	5 45.44	+20 13.4	2.033	2.862	12.6	21.2
77930	2002 GR ₁₀		12 25.0 125°87	0°7/24.9	18		360614	2004 CS ₅₄		12 25.0 308°62	1°0/25.0	17	
11 17	6 43.64	+23 17.3	2.660	3.429	11.8	19.9	11 17	6 42.92	+25 54.5	1.706	2.505	16.2	21.1
11 27	6 38.35	+23 58.4	2.579	3.442	9.2	19.8	11 27	6 39.19	+25 58.8	1.610	2.490	12.8	20.9
12 7	6 31.07	+24 41.7	2.522	3.455	6.1	19.6	12 7	6 32.41	+26 2.5	1.535	2.475	8.7	20.6
12 17	6 22.31	+25 24.8	2.494	3.467	2.8	19.4	12 17	6 23.19	+26 3.3	1.486	2.460	4.1	20.3
12 27	6 12.84	+26 4.9	2.497	3.479	1.0	19.3	12 27	6 12.66	+25 58.8	1.463	2.446	1.5	20.1
1 6	6 3.55	+26 40.3	2.532	3.491	4.2	19.5	1 6	6 2.25	+25 48.4	1.469	2.432	6.1	20.3
1 16	5 55.28	+27 10.1	2.597	3.502	7.3	19.7	1 16	5 53.38	+25 33.3	1.502	2.418	10.8	20.6
1 26	5 48.73	+27 34.6	2.690	3.513	10.1	19.9	1 26	5 47.19	+25 15.8	1.557	2.405	14.9	20.8
450385	2005 MH ₄₈		12 25.0 113°69	4°4/25.6	18		118529	2000 EQ ₄₁		12 25.0 198°17	1°2/25.1	18	
11 17	6 42.26	+ 9 56.0	2.135	2.898	14.5	21.8	11 17	6 46.46	+19 44.0	2.032	2.808	14.7	20.4
11 27	6 37.52	+ 9 43.3	2.058	2.909	11.7	21.6	11 27	6 41.20	+19 43.8	1.939	2.805	11.6	20.2
12 7	6 30.62	+ 9 40.7	2.003	2.920	8.6	21.4	12 7	6 33.34	+19 47.3	1.868	2.801	7.9	20.0
12 17	6 22.12	+ 9 49.5	1.975	2.930	5.6	21.3	12 17	6 23.49	+19 53.5	1.824	2.797	3.8	19.7
12 27	6 12.91	+10 9.6	1.975	2.941	4.4	21.2	12 27	6 12.61	+20 1.4	1.810	2.792	1.5	19.5
1 6	6 3.96	+10 39.9	2.005	2.951	6.3	21.3	1 6	6 1.90	+20 9.9	1.826	2.786	5.4	19.8
1 16	5 56.19	+11 18.5	2.063	2.961	9.3	21.5	1 16	5 52.50	+20 19.0	1.871	2.780	9.5	20.0
1 26	5 50.34	+12 3.0	2.146	2.970	12.2	21.8	1 26	5 45.35	+20 28.9	1.941	2.773	13.0	20.2
127060	2002 GX ₅₀		12 25.0 211°63	0°8/25.1	17		430885	2005 QY ₁₄₁		12 25.0 110°01	3°2/25.3	16	
11 17	6 41.64	+20 32.6	2.279	3.059	13.2	20.4	11 17	6 48.94	+14 58.0	1.912	2.680	15.8	22.3
11 27	6 37.14	+20 35.9	2.188	3.058	10.4	20.2	11 27	6 42.77	+14 38.3	1.848	2.706	12.5	22.1
12 7	6 30.45	+20 42.2	2.121	3.056	7.0	20.0	12 7	6 34.11	+14 25.3	1.806	2.732	8.7	22.0
12 17	6 22.09	+20 50.5	2.080	3.054	3.3	19.7	12 17	6 23.69	+14 19.5	1.791	2.756	4.9	21.8
12 27	6 12.91	+20 59.8	2.069	3.051	1.1	19.6	12 27	6 12.60	+14 20.9	1.805	2.780	3.3	21.7
1 6	6 3.90	+21 9.2	2.088	3.049	4.7	19.8	1 6	6 2.02	+14 28.8	1.849	2.803	6.1	21.9
1 16	5 56.00	+21 18.4	2.136	3.047	8.4	20.0	1 16	5 53.00	+14 42.6	1.922	2.825	9.6	22.2
1 26	5 50.01	+21 27.8	2.210	3.044	11.6	20.2	1 26	5 46.32	+15 1.2	2.021	2.846	12.9	22.5
183097	2002 RZ ₉₉		12 25.0 122°41	3°9/24.9	18		364840	2008 CQ ₁₄₃		12 25.0 214°79	4°2/24.8	17	
11 17	6 52.55	+32 8.5	1.796	2.573	16.4	21.1	11 17	6 46.52	+34 26.1	2.170	2.944	14.0	21.8
11 27	6 46.34	+32 45.6	1.727	2.590	13.0	20.9	11 27	6 41.44	+34 59.7	2.081	2.941	11.2	21.6
12 7	6 36.91	+33 18.0	1.680	2.607	9.1	20.7	12 7	6 33.59	+35 28.2	2.015	2.937	8.1	21.4
12 17	6 25.07	+33 40.1	1.658	2.623	5.4	20.5	12 17	6 23.61	+35 46.8	1.974	2.934	5.2	21.2
12 27	6 12.19	+33 47.7	1.666	2.638	4.0	20.5	12 27	6 12.58	+35 51.8	1.963	2.930	4.3	21.2
1 6	5 59.87	+33 39.8	1.702	2.653	6.8	20.7	1 6	6 1.78	+35 42.1	1.980	2.926	6.4	21.3
1 16	5 49.52	+33 18.8	1.767	2.667	10.5	20.9	1 16	5 52.45	+35 19.4	2.026	2.922	9.6	21.5
1 26	5 42.13	+32 49.7	1.855	2.680	13.9	21.2	1 26	5 45.54	+34 47.4	2.097	2.917	12.6	21.7
222149	1999 XA ₆₆		12 25.0 353°25	1°6/25.0	16		494775	2006 KL ₂₆		12 25.0 222°81	2°1/25.4	18	
11 17	6 37.61	+21 7.6	1.478	2.294	17.4	19.6	11 17	6 40.58	+14 31.0	2.765	3.527	11.6	21.7
11 27	6 35.17	+20 41.0	1.397	2.286	13.7	19.3	11 27	6 35.95	+14 46.2	2.664	3.519	9.2	21.5
12 7	6 29.71	+20 16.2	1.336	2.279	9.4	19.0	12 7	6 29.49	+15 8.0	2.586	3.512	6.4	21.3
12 17	6 21.91	+19 53.5	1.298	2.273	4.5	18.7	12 17	6 21.65	+15 36.2	2.537	3.504	3.5	21.1
12 27	6 12.95	+19 33.3	1.287	2.269	1.9	18.6	12 27	6 13.07	+16 9.6	2.518	3.495	2.1	21.0
1 6	6 4.29	+19 16.6	1.302	2.266	6.5	18.8	1 6	6 4.55	+16 46.8	2.531	3.487	4.4	21.1
1 16	5 57.26	+19 4.1	1.342	2.264	11.3	19.1	1 16	5 56.85	+17 26.5	2.574	3.478	7.4	21.3
1 26	5 52.93	+18 56.8	1.405	2.264	15.5	19.4	1 26	5 50.64	+18 7.3	2.644	3.469	10.2	21.5
215508	2002 TK ₃₈₂		12 25.0 20°90	6°0/23.8	18		107704	2001 FL ₁₈		12 25.0 293°43	0°0/25.0	18	
11 17	6 46.73	+32 49.4	1.626										

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12 25.0

12 25.1

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
226477	2003 <i>SF</i> ₁₈₀		12 25.0	86°97'	3°1/25.1	18	225314	1997 <i>EZ</i> ₃₀		12 25.0	297°83'	1°7/24.9	18
11 17	6 41.37	+14 59.7	2.292	3.064	13.4	20.7	11 17	6 44.88	+26 15.4	1.425	2.233	18.4	21.2
11 27	6 36.66	+14 26.6	2.217	3.077	10.6	20.5	11 27	6 41.51	+26 30.5	1.329	2.214	14.6	20.9
12 7	6 29.95	+13 58.4	2.165	3.091	7.5	20.4	12 7	6 34.49	+26 46.3	1.253	2.194	10.1	20.5
12 17	6 21.81	+13 36.4	2.140	3.104	4.4	20.2	12 17	6 24.36	+26 59.0	1.201	2.175	4.9	20.2
12 27	6 13.07	+13 21.2	2.144	3.117	3.2	20.1	12 27	6 12.43	+27 4.7	1.174	2.156	2.1	20.0
1 6	6 4.63	+13 13.4	2.178	3.130	5.5	20.3	1 6	6 0.52	+27 1.4	1.174	2.137	7.2	20.2
1 16	5 57.33	+13 12.6	2.241	3.143	8.5	20.5	1 16	5 50.43	+26 50.3	1.199	2.118	12.6	20.5
1 26	5 51.84	+13 18.4	2.330	3.155	11.3	20.7	1 26	5 43.62	+26 34.6	1.247	2.100	17.4	20.7
9307	Regiomontanus		12 25.0	106°70'	3°2/25.1	18	55930	1998 <i>FY</i> ₆₄		12 25.0	219°90'	6°8/24.4	18
11 17	6 51.03	+31 11.3	1.655	2.441	17.2	18.3	11 17	6 49.47	+42 37.3	2.352	3.101	13.7	18.8
11 27	6 45.33	+31 27.5	1.586	2.456	13.6	18.1	11 27	6 43.96	+43 34.9	2.264	3.096	11.5	18.6
12 7	6 36.31	+31 38.5	1.539	2.470	9.4	17.9	12 7	6 35.44	+44 23.5	2.198	3.091	9.2	18.5
12 17	6 24.83	+31 39.7	1.516	2.485	5.1	17.7	12 17	6 24.54	+44 56.8	2.158	3.085	7.3	18.3
12 27	6 12.34	+31 28.0	1.521	2.498	3.3	17.6	12 27	6 12.43	+45 9.7	2.146	3.080	6.9	18.3
1 6	6 0.47	+31 3.3	1.555	2.511	6.7	17.9	1 6	6 0.52	+45 0.5	2.161	3.074	8.2	18.4
1 16	5 50.66	+30 29.0	1.617	2.524	10.8	18.1	1 16	5 50.20	+44 31.1	2.204	3.067	10.4	18.5
1 26	5 43.91	+29 49.9	1.702	2.537	14.4	18.4	1 26	5 42.53	+43 46.7	2.271	3.061	12.8	18.7
352376	2007 <i>VF</i> ₂₇₈		12 25.0	210°80'	0°8/24.9	18	172564	2003 <i>UU</i> ₁₆₁		12 25.0	75°56'	3°3/25.3	18
11 17	6 45.52	+24 41.8	2.256	3.032	13.5	21.7	11 17	6 45.37	+15 10.2	1.702	2.487	16.8	20.4
11 27	6 40.36	+25 1.9	2.159	3.026	10.6	21.4	11 27	6 40.37	+14 53.4	1.641	2.509	13.3	20.2
12 7	6 32.74	+25 23.2	2.085	3.019	7.2	21.2	12 7	6 32.71	+14 44.4	1.601	2.531	9.2	20.1
12 17	6 23.22	+25 43.1	2.039	3.012	3.3	21.0	12 17	6 23.14	+14 43.7	1.586	2.553	5.2	19.9
12 27	6 12.71	+25 59.3	2.022	3.004	1.2	20.8	12 27	6 12.82	+14 50.9	1.599	2.575	3.4	19.8
1 6	6 2.31	+26 10.5	2.036	2.996	5.0	21.0	1 6	6 3.01	+15 5.2	1.641	2.597	6.4	20.0
1 16	5 53.11	+26 16.6	2.080	2.987	8.7	21.3	1 16	5 54.82	+15 25.3	1.710	2.619	10.2	20.3
1 26	5 45.99	+26 18.8	2.149	2.978	12.1	21.5	1 26	5 49.09	+15 49.9	1.803	2.640	13.6	20.6
495452	2014 <i>TL</i> ₂₀		12 25.0	109°71'	4°0/25.3	18	336853	2011 <i>FN</i> ₅₁		12 25.0	235°22'	6°3/25.2	18
11 17	6 40.57	+11 36.6	2.352	3.116	13.3	21.6	11 17	6 38.64	+ 2 16.9	2.860	3.586	12.0	21.3
11 27	6 36.04	+11 6.5	2.272	3.125	10.7	21.4	11 27	6 34.31	+ 1 29.2	2.762	3.575	10.2	21.1
12 7	6 29.56	+10 43.7	2.215	3.133	7.8	21.3	12 7	6 28.34	+ 0 51.3	2.686	3.564	8.3	21.0
12 17	6 21.66	+10 29.5	2.185	3.142	5.1	21.1	12 17	6 21.13	+ 0 26.0	2.637	3.552	6.7	20.9
12 27	6 13.12	+10 24.9	2.184	3.150	4.1	21.1	12 27	6 13.29	+ 0 15.2	2.615	3.540	6.3	20.8
1 6	6 4.83	+10 29.7	2.213	3.158	5.9	21.2	1 6	6 5.53	+ 0 19.7	2.623	3.528	7.2	20.9
1 16	5 57.59	+10 43.3	2.270	3.165	8.7	21.4	1 16	5 58.51	+ 0 38.7	2.658	3.515	9.0	21.0
1 26	5 52.08	+11 4.3	2.352	3.173	11.4	21.6	1 26	5 52.86	+ 1 10.2	2.718	3.503	11.1	21.1
343200	2009 <i>VF</i> ₅₅		12 25.0	257°86'	3°6/25.0	18	86584	2000 <i>ES</i> ₅₇		12 25.0	19°87'	3°2/25.0	18
11 17	6 44.71	+16 34.6	1.586	2.379	17.5	21.6	11 17	6 44.67	+29 30.8	1.178	2.000	20.6	18.3
11 27	6 40.45	+15 56.4	1.500	2.374	14.0	21.4	11 27	6 41.60	+29 46.9	1.114	2.006	16.3	18.0
12 7	6 33.16	+15 23.1	1.435	2.368	9.8	21.1	12 7	6 34.48	+29 59.1	1.069	2.012	11.2	17.8
12 17	6 23.51	+14 56.3	1.394	2.362	5.6	20.8	12 17	6 24.22	+30 2.3	1.046	2.019	5.9	17.5
12 27	6 12.65	+14 37.3	1.380	2.356	3.8	20.7	12 27	6 12.55	+29 52.5	1.048	2.027	3.4	17.4
1 6	6 2.03	+14 27.0	1.394	2.351	7.2	20.9	1 6	6 1.55	+29 29.6	1.074	2.037	7.8	17.7
1 16	5 53.03	+14 25.7	1.434	2.345	11.7	21.1	1 16	5 53.03	+28 57.2	1.125	2.047	13.0	18.0
1 26	5 46.71	+14 33.0	1.497	2.339	15.7	21.4	1 26	5 48.19	+28 20.6	1.196	2.058	17.5	18.3
8894	1995 <i>PV</i>		12 25.0	133°41'	4°4/24.9	18	144977	2005 <i>EC</i> ₁₂₇		12 25.0	154°90'	2°6/24.9	18
11 17	6 52.95	+33 57.4	1.776	2.552	16.6	18.2	11 17	6 51.71	+29 27.0	1.768	2.549	16.4	21.4
11 27	6 46.81	+34 30.0	1.703	2.565	13.2	18.0	11 27	6 45.79	+29 47.7	1.689	2.557	13.0	21.1
12 7	6 37.33	+34 56.2	1.652	2.577	9.5	17.8	12 7	6 36.65	+30 5.5	1.632	2.564	9.0	20.9
12 17	6 25.33	+35 10.1	1.627	2.588	5.8	17.6	12 17	6 25.07	+30 15.8	1.601	2.571	4.7	20.7
12 27	6 12.23	+35 7.6	1.629	2.599	4.5	17.5	12 27	6 12.35	+30 15.2	1.598	2.577	2.8	20.6
1 6	5 59.69	+34 47.9	1.661	2.610	7.1	17.7	1 6	6 0.07	+30 2.8	1.625	2.582	6.4	20.8
1 16	5 49.17	+34 14.3	1.720	2.619	10.8	17.9	1 16	5 49.66	+29 41.0	1.680	2.586	10.5	21.1
1 26	5 41.73	+33 32.4	1.804	2.628	14.2	18.2	1 26	5 42.16	+29 13.6	1.759	2.590	14.2	21.3
181933	1999 <i>TD</i> ₁₄₂		12 25.0	88°61'	3°3/25.2	18	409716	2006 <i>BP</i> ₂₀₄		12 25.0	15°60'	4°6/25.1	17
11 17	6 47.81	+16 12.2	1.477	2.269	18.6	20.4	11 17	6 45.55	+36 3.1	2.033	2.811	14.7	20.9
11 27	6 42.70	+15 48.9	1.415	2.288	14.7	20.2	11 27	6 40.82	+36 27.4	1.952	2.812	11.8	20.7
12 7	6 34.48	+15 33.1	1.374	2.307	10.2	20.0	12 7	6 33.23	+36 44.3	1.892	2.814	8.7	20.5
12 17	6 23.99	+15 25.4	1.356	2.325	5.5	19.7	12 17	6 23.48	+36 49.2	1.858	2.815	5.7	20.3
12 27	6 12.58	+15 25.8	1.366	2.343	3.5	19.7	12 27	6 12.74	+36 38.7	1.852	2.817	4.7	20.3
1 6	6 1.76	+15 33.7	1.403	2.361	7.0	19.9	1 6	6 2.38	+36 12.5	1.874	2.820	6.7	20.4
1 16	5 52.86	+15 48.1	1.467	2.379	11.4	20.2	1 16	5 53.64	+35 33.4	1.924	2.822	9.9	20.6
1 26	5 46.82	+16 8.0	1.554	2.396	15.2	20.5	1 26	5 47.47	+34 45.8	1.998	2.825	12.9	20.8
27444	2000 <i>FL</i> ₄₉		12 25.0	173°39'	0°4/25.0	18	469664	2004 <i>TM</i> ₃₁₈		12 25.1	177°28'	1°0/24.9	18
11 17	6 41.59	+25 7.8	2.697	3.471	11.5	19.0	11 17	6 47.41	+25 49.6	2.066	2.844	14.5	22.2
11 27	6 36.77	+25 7.2	2.606	3.472	9.0	18.8	11 27	6 41.96	+26 1.5	1.978	2.846	11.4	22.0
12 7	6 30.02	+25 6.0	2.540	3.474	6.1	18.6	12 7	6 33.87	+26 13.0	1.913	2.847	7.7	21.7
12 17	6 21.88	+25 2.9	2.501	3.475	2.8	18.4	12 17	6 23.77	+26 21.5	1.875	2.848	3.6	21.5
12 27	6 13.08	+24 57.0	2.493	3.475	0.8	18.2	12 27	6 12.69	+26 24.8	1.867	2.848	1.4	21.3
1 6	6 4.47	+24 48.1	2.516	3.476	4.1	18.5	1 6	6 1.86	+26 22.2	1.888	2.848	5.3	21.6
1 16	5 56.87	+24 36.8	2.568	3.476	7.3	18.7	1 16	5 52.45	+26 14.5	1.939	2.847	9.2	21.8
1 26	5 50.95	+24 24.3	2.647	3.476	10.0	18.9	1 26	5 45.38	+26 3.6	2.015	2.846	12.7	22.0
469886	2005 <i>UD</i> ₄₈₈		12 25.0	38°64'	7°7/25.9	18	14435	1992 <i>ED</i> ₁₃		12 25.1	89°96'	4°1/25	

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
354017	2001 <i>OH</i> ₁₁		12 25.1 184°30	1°8/25.4	18		284531	2007 <i>RB</i> ₁₄₈		12 25.1 44°26	2°8/25.4	18	
11 17	6 43.92	+15 47.9	2.546	3.308	12.5	21.3	11 17	6 43.82	+16 12.7	1.399	2.202	18.9	20.4
11 27	6 38.67	+16 2.9	2.452	3.308	9.9	21.1	11 27	6 39.77	+16 9.3	1.343	2.222	14.9	20.2
12 7	6 31.39	+16 24.2	2.381	3.308	6.8	20.9	12 7	6 32.62	+16 15.2	1.307	2.243	10.2	20.0
12 17	6 22.58	+16 51.0	2.338	3.307	3.6	20.7	12 17	6 23.21	+16 29.9	1.294	2.265	5.4	19.8
12 27	6 12.99	+17 22.0	2.326	3.305	1.9	20.6	12 27	6 12.89	+16 52.0	1.308	2.287	3.0	19.7
1 6	6 3.50	+17 55.8	2.346	3.303	4.6	20.7	1 6	6 3.16	+17 19.4	1.348	2.310	6.7	20.0
1 16	5 54.99	+18 31.0	2.396	3.300	7.9	20.9	1 16	5 55.34	+17 50.4	1.415	2.333	11.2	20.3
1 26	5 48.18	+19 6.5	2.473	3.297	10.8	21.1	1 26	5 50.34	+18 23.2	1.504	2.356	15.1	20.6
170626	2003 <i>YD</i> ₆₂		12 25.1 47°78	0°5/25.0	18		191213	2002 <i>RA</i> ₁		12 25.1 54°72	5°7/24.5	17	
11 17	6 45.99	+24 37.5	1.453	2.257	18.3	19.7	11 17	6 46.16	+37 49.4	2.126	2.897	14.3	19.7
11 27	6 41.45	+24 38.0	1.397	2.279	14.2	19.5	11 27	6 41.30	+38 48.8	2.055	2.908	11.7	19.5
12 7	6 33.71	+24 38.8	1.361	2.302	9.5	19.3	12 7	6 33.58	+39 41.3	2.007	2.919	8.8	19.3
12 17	6 23.67	+24 37.6	1.350	2.325	4.3	19.1	12 17	6 23.68	+40 21.0	1.984	2.931	6.4	19.2
12 27	6 12.76	+24 32.6	1.366	2.349	1.1	18.9	12 27	6 12.76	+40 43.2	1.990	2.943	5.8	19.2
1 6	6 2.55	+24 23.7	1.409	2.373	6.2	19.3	1 6	6 2.18	+40 46.3	2.024	2.954	7.4	19.3
1 16	5 54.37	+24 12.3	1.479	2.397	10.8	19.6	1 16	5 53.19	+40 32.3	2.084	2.966	10.0	19.5
1 26	5 49.14	+24 0.6	1.571	2.421	14.6	19.9	1 26	5 46.77	+40 5.4	2.169	2.978	12.7	19.7
462726	2010 <i>AK</i> ₁₁		12 25.1 236°38	3°0/25.1	18		166918	2003 <i>FR</i> ₃₉		12 25.1 116°46	1°5/25.1	18	
11 17	6 44.70	+34 25.9	2.861	3.622	11.3	21.8	11 17	6 51.04	+19 48.2	1.573	2.359	17.9	21.0
11 27	6 39.32	+34 34.5	2.757	3.610	9.0	21.6	11 27	6 45.16	+19 41.3	1.507	2.378	14.1	20.8
12 7	6 31.84	+34 37.5	2.677	3.598	6.5	21.4	12 7	6 36.13	+19 38.9	1.462	2.397	9.5	20.6
12 17	6 22.78	+34 32.2	2.625	3.586	4.0	21.2	12 17	6 24.80	+19 39.5	1.442	2.415	4.6	20.3
12 27	6 12.96	+34 16.7	2.604	3.573	3.1	21.2	12 27	6 12.52	+19 42.0	1.450	2.432	1.8	20.2
1 6	6 3.31	+33 50.8	2.613	3.560	4.9	21.3	1 6	6 0.82	+19 45.7	1.488	2.449	6.3	20.5
1 16	5 54.72	+33 16.0	2.651	3.547	7.6	21.4	1 16	5 51.06	+19 50.7	1.552	2.464	10.8	20.8
1 26	5 47.95	+32 35.2	2.717	3.533	10.2	21.6	1 26	5 44.19	+19 57.6	1.641	2.479	14.7	21.1
279597	2011 <i>EE</i> ₁₂		12 25.1 211°10	0°4/25.1	18		520129	2014 <i>BF</i> ₆₇		12 25.1 252°95	0°3/25.1	18	
11 17	6 40.68	+20 17.7	2.894	3.663	11.0	20.7	11 17	6 45.41	+21 56.4	1.778	2.568	16.0	22.0
11 27	6 36.00	+20 37.9	2.795	3.658	8.6	20.5	11 27	6 40.98	+22 5.8	1.682	2.556	12.7	21.7
12 7	6 29.54	+21 1.3	2.720	3.652	5.8	20.3	12 7	6 33.58	+22 18.7	1.607	2.545	8.6	21.4
12 17	6 21.73	+21 26.8	2.673	3.646	2.7	20.1	12 17	6 23.80	+22 33.2	1.558	2.533	4.0	21.1
12 27	6 13.21	+21 52.9	2.658	3.640	0.8	20.0	12 27	6 12.72	+22 47.1	1.537	2.520	1.0	20.9
1 6	6 4.77	+22 18.4	2.674	3.634	3.9	20.2	1 6	6 1.73	+22 58.9	1.545	2.508	5.9	21.2
1 16	5 57.15	+22 42.4	2.720	3.627	6.9	20.4	1 16	5 52.18	+23 8.3	1.581	2.495	10.5	21.4
1 26	5 51.00	+23 4.8	2.794	3.620	9.6	20.6	1 26	5 45.19	+23 16.2	1.641	2.482	14.6	21.7
90091	2002 <i>XG</i> ₂		12 25.1 111°34	0°5/24.9	18		333873	1997 <i>SN</i> ₅		12 25.1 64°50	1°3/25.1	16	
11 17	6 45.00	+21 45.4	1.966	2.749	14.9	19.5	11 17	6 47.84	+20 1.4	1.420	2.220	18.8	20.9
11 27	6 40.21	+22 30.0	1.884	2.756	11.7	19.3	11 27	6 42.84	+19 59.5	1.366	2.245	14.7	20.7
12 7	6 32.79	+23 19.6	1.825	2.762	7.8	19.1	12 7	6 34.63	+20 2.7	1.332	2.270	9.9	20.4
12 17	6 23.32	+24 11.1	1.793	2.767	3.6	18.8	12 17	6 24.11	+20 9.4	1.322	2.296	4.7	20.2
12 27	6 12.82	+25 0.7	1.791	2.773	1.1	18.6	12 27	6 12.71	+20 18.0	1.339	2.321	1.7	20.1
1 6	6 2.52	+25 45.3	1.818	2.779	5.3	19.0	1 6	6 2.03	+20 27.4	1.384	2.346	6.4	20.4
1 16	5 53.57	+26 23.5	1.874	2.784	9.3	19.2	1 16	5 53.41	+20 37.4	1.455	2.372	11.0	20.8
1 26	5 46.94	+26 55.3	1.955	2.790	12.8	19.4	1 26	5 47.76	+20 48.4	1.549	2.397	14.9	21.1
227133	2005 <i>OR</i> ₁₁		12 25.1 102°10	5°3/25.8	18		500565	2012 <i>UP</i> ₆₁		12 25.1 244°59	20°0/24.4	17	
11 17	6 46.58	+ 9 23.1	1.658	2.429	17.7	20.7	11 17	6 44.94	-11 19.1	1.204	1.931	25.4	21.3
11 27	6 41.43	+ 9 10.0	1.592	2.447	14.3	20.3	11 27	6 41.42	-14 3.3	1.145	1.927	23.4	21.1
12 7	6 33.53	+ 9 10.5	1.547	2.465	10.5	20.5	12 7	6 34.29	-16 19.0	1.101	1.922	21.6	21.0
12 17	6 23.59	+ 9 25.8	1.526	2.482	6.9	20.1	12 17	6 24.23	-17 51.5	1.074	1.917	20.4	20.9
12 27	6 12.78	+ 9 55.7	1.533	2.499	5.3	20.1	12 27	6 12.62	-18 29.2	1.064	1.912	20.1	20.8
1 6	6 2.41	+10 38.2	1.568	2.516	7.5	20.2	1 6	6 1.25	-18 8.1	1.072	1.907	20.9	20.9
1 16	5 53.66	+11 30.0	1.630	2.532	11.1	20.5	1 16	5 51.80	-16 52.8	1.096	1.902	22.5	21.0
1 26	5 47.42	+12 27.5	1.716	2.547	14.5	20.7	1 26	5 45.61	-14 54.5	1.136	1.897	24.6	21.1
483044	2015 <i>HJ</i> ₉₁		12 25.1 131°71	0°4/25.0	18		306162	2010 <i>LR</i> ₁₀₄		12 25.1 104°47	7°4/25.9	18	
11 17	6 48.61	+23 31.1	1.899	2.679	15.5	22.4	11 17	6 42.47	+ 3 50.4	1.912	2.664	16.4	21.1
11 27	6 42.95	+23 46.6	1.823	2.692	12.1	22.2	11 27	6 37.95	+ 3 10.5	1.840	2.674	13.7	20.9
12 7	6 34.53	+24 3.8	1.771	2.706	8.1	22.0	12 7	6 31.08	+ 2 45.4	1.788	2.683	10.8	20.8
12 17	6 24.06	+24 20.0	1.744	2.718	3.7	21.7	12 17	6 22.48	+ 2 38.2	1.760	2.693	8.3	20.7
12 27	6 12.67	+24 33.0	1.748	2.730	1.0	21.5	12 27	6 13.09	+ 2 50.9	1.759	2.702	7.4	20.6
1 6	6 1.66	+24 41.4	1.781	2.742	5.4	21.9	1 6	6 3.99	+ 3 22.6	1.786	2.711	8.7	20.7
1 16	5 52.24	+24 45.6	1.842	2.752	9.5	22.2	1 16	5 56.18	+ 4 10.6	1.839	2.720	11.2	20.9
1 26	5 45.30	+24 47.2	1.929	2.762	13.1	22.4	1 26	5 50.45	+ 5 10.6	1.916	2.729	14.0	21.1
394548	2007 <i>UO</i> ₆₄		12 25.1 168°71	3°6/25.2	18		146427	2001 <i>QG</i> ₂₄₇		12 25.1 58°24	0°8/25.0	18	
11 17	6 44.06	+13 51.4	2.167	2.934	14.2	22.0	11 17	6 45.41	+24 28.6	1.716	2.510	16.3	20.0
11 27	6 39.00	+13 21.8	2.081	2.938	11.4	21.8	11 27	6 40.63	+24 43.8	1.655	2.532	12.7	19.8
12 7	6 31.70	+12 58.3	2.018	2.941	8.1	21.6	12 7	6 33.02	+25 0.0	1.616	2.554	8.5	19.6
12 17	6 22.74	+12 42.0	1.982	2.944	4.9	21.4	12 17	6 23.37	+25 14.4	1.601	2.576	3.9	19.3
12 27	6 12.98	+12 33.7	1.975	2.946	3.7	21.4	12 27	6 12.90	+25 24.7	1.616	2.598	1.2	19.2
1 6	6 3.47	+12 33.7	1.997	2.947	6.0	21.5	1 6	6 2.96	+25 29.9	1.658	2.620	5.6	19.5
1 16	5 55.14	+12 41.4	2.049	2.949	9.3	21.7	1 16	5 54.74	+25 30.6	1.728	2.643	9.7	19.8
1 26	5 48.79	+12 56.1	2.126	2.949	12.4	21.9	1 26	5 49.11	+25 28.5	1.823	2.665	13.3	20.1
27683	1981 <i>ED</i> ₂₀		12 25.1 3°97	5°1/24.8	18		452189	2015 <i>RD</i> ₉₅		12 25.			

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
77974	2002 <i>JD</i> ₁₃		12 25.1 303°95	14°1/20.2	18		223084	2002 <i>TX</i> ₂₈₄		12 25.1 49°10	2°8/24.9	18	
11 17	6 56.64	+39 48.6	1.141	1.940	22.6	19.1	11 17	6 47.66	+28 32.6	1.300	2.110	19.7	20.0
11 27	6 53.78	+43 19.5	1.071	1.932	19.3	18.9	11 27	6 43.52	+28 56.9	1.238	2.123	15.5	19.7
12 7	6 45.01	+46 53.9	1.021	1.925	16.1	18.6	12 7	6 35.57	+29 18.9	1.196	2.135	10.6	19.5
12 17	6 30.21	+50 9.3	0.995	1.918	14.2	18.5	12 17	6 24.73	+29 33.7	1.176	2.149	5.4	19.3
12 27	6 11.00	+52 41.3	0.992	1.911	14.7	18.5	12 27	6 12.62	+29 36.9	1.183	2.163	3.1	19.1
1 6	5 50.82	+54 14.7	1.012	1.904	17.2	18.6	1 6	6 1.20	+29 27.6	1.216	2.177	7.3	19.4
1 16	5 33.79	+54 50.6	1.052	1.897	20.5	18.8	1 16	5 52.12	+29 8.6	1.273	2.191	12.2	19.8
1 26	5 23.05	+54 42.8	1.109	1.891	23.8	19.0	1 26	5 46.52	+28 44.2	1.353	2.206	16.4	20.1
38624	2000 <i>CD</i> ₁₂		12 25.1 175°39	3°1/25.4	18		412431	2014 <i>EF</i> ₁₇		12 25.1 249°08	0°5/25.1	18	
11 17	6 43.09	+14 31.0	2.027	2.802	14.8	19.6	11 17	6 45.52	+20 57.3	1.860	2.645	15.6	21.9
11 27	6 38.50	+14 21.7	1.940	2.803	11.8	19.4	11 27	6 40.96	+21 10.3	1.760	2.632	12.3	21.7
12 7	6 31.52	+14 19.7	1.877	2.804	8.3	19.2	12 7	6 33.55	+21 27.8	1.683	2.619	8.4	21.4
12 17	6 22.72	+14 25.5	1.839	2.805	4.7	19.0	12 17	6 23.82	+21 48.0	1.631	2.605	3.9	21.1
12 27	6 13.03	+14 38.9	1.830	2.805	3.2	18.9	12 27	6 12.81	+22 8.8	1.608	2.591	1.0	20.9
1 6	6 3.55	+14 58.9	1.850	2.805	5.9	19.0	1 6	6 1.83	+22 28.3	1.614	2.576	5.7	21.2
1 16	5 55.29	+15 24.3	1.898	2.805	9.5	19.3	1 16	5 52.19	+22 45.8	1.648	2.561	10.2	21.4
1 26	5 49.12	+15 53.8	1.972	2.805	12.8	19.5	1 26	5 44.99	+23 1.7	1.707	2.546	14.2	21.6
447932	2008 <i>AO</i> ₃₈		12 25.1 348°17	1°2/25.1	17		120283	2004 <i>HK</i> ₃₅		12 25.1 165°80	2°0/25.3	18	
11 17	6 41.32	+21 47.6	1.520	2.328	17.4	21.2	11 17	6 42.97	+16 56.6	2.226	3.000	13.7	20.8
11 27	6 38.05	+21 25.3	1.437	2.322	13.7	20.9	11 27	6 38.21	+16 55.5	2.139	3.003	10.8	20.6
12 7	6 31.69	+21 4.4	1.376	2.317	9.3	20.6	12 7	6 31.23	+16 59.9	2.075	3.006	7.4	20.4
12 17	6 22.94	+20 44.6	1.338	2.312	4.4	20.3	12 17	6 22.59	+17 9.3	2.038	3.008	3.9	20.2
12 27	6 13.00	+20 26.0	1.327	2.309	1.6	20.1	12 27	6 13.14	+17 23.0	2.031	3.010	2.1	20.1
1 6	6 3.36	+20 9.0	1.342	2.306	6.4	20.4	1 6	6 3.89	+17 40.1	2.053	3.012	5.1	20.3
1 16	5 55.40	+19 54.8	1.384	2.304	11.2	20.7	1 16	5 55.77	+17 59.8	2.105	3.013	8.6	20.5
1 26	5 50.19	+19 44.7	1.448	2.302	15.4	21.0	1 26	5 49.58	+18 21.4	2.182	3.014	11.8	20.7
275352	2011 <i>AA</i> ₁₂		12 25.1 34°17	1°1/25.2	17		460397	2014 <i>SP</i> ₈₈		12 25.1 20°94	2°9/25.0	16	
11 17	6 41.53	+18 23.8	2.016	2.801	14.5	20.5	11 17	6 43.77	+31 7.3	1.892	2.682	15.2	21.2
11 27	6 37.36	+18 43.5	1.934	2.805	11.4	20.3	11 27	6 39.48	+31 22.0	1.813	2.686	12.0	21.0
12 7	6 30.80	+19 9.5	1.874	2.809	7.7	20.1	12 7	6 32.38	+31 32.3	1.757	2.690	8.4	20.8
12 17	6 22.42	+19 40.3	1.840	2.813	3.7	19.8	12 17	6 23.18	+31 34.7	1.726	2.694	4.6	20.5
12 27	6 13.14	+20 13.9	1.836	2.818	1.4	19.7	12 27	6 13.02	+31 26.5	1.723	2.699	3.1	20.4
1 6	6 4.05	+20 48.3	1.861	2.822	5.1	19.9	1 6	6 3.23	+31 7.6	1.748	2.705	6.0	20.6
1 16	5 56.22	+21 21.9	1.914	2.827	9.0	20.2	1 16	5 55.03	+30 39.9	1.801	2.710	9.7	20.9
1 26	5 50.48	+21 54.2	1.992	2.832	12.4	20.4	1 26	5 49.34	+30 7.0	1.878	2.716	13.1	21.1
42349	2002 <i>BH</i> ₁₇		12 25.1 71°47	0°4/25.1	18		179735	2002 <i>RV</i> ₁₀₈		12 25.1 156°88	2°9/25.2	18	
11 17	6 39.60	+21 41.1	2.626	3.403	11.7	19.9	11 17	6 47.29	+16 9.4	1.816	2.593	16.2	20.9
11 27	6 35.26	+21 44.8	2.542	3.410	9.1	19.7	11 27	6 41.99	+15 52.2	1.735	2.600	12.9	20.7
12 7	6 29.07	+21 50.3	2.482	3.416	6.1	19.5	12 7	6 33.98	+15 41.2	1.676	2.606	9.0	20.5
12 17	6 21.53	+21 56.7	2.449	3.423	2.8	19.3	12 17	6 23.90	+15 36.8	1.643	2.612	4.9	20.3
12 27	6 13.37	+22 3.0	2.446	3.429	0.8	19.1	12 27	6 12.85	+15 38.9	1.639	2.617	3.0	20.2
1 6	6 5.40	+22 8.8	2.475	3.436	4.1	19.4	1 6	6 2.12	+15 46.8	1.664	2.621	6.2	20.4
1 16	5 58.40	+22 13.8	2.532	3.442	7.2	19.6	1 16	5 52.89	+16 0.1	1.717	2.624	10.3	20.6
1 26	5 53.03	+22 18.6	2.616	3.449	10.0	19.8	1 26	5 46.08	+16 18.1	1.795	2.627	13.9	20.9
445172	2009 <i>BM</i> ₄₁		12 25.1 277°64	3°6/24.9	17		329433	2002 <i>NJ</i> ₇₈		12 25.1 138°26	0°7/25.1	17	
11 17	6 46.41	+31 38.3	1.799	2.588	15.9	21.6	11 17	6 41.40	+20 41.1	2.427	3.204	12.6	21.6
11 27	6 41.92	+32 4.2	1.710	2.580	12.7	21.4	11 27	6 36.84	+20 44.2	2.340	3.208	9.8	21.4
12 7	6 34.28	+32 26.1	1.641	2.573	9.0	21.1	12 7	6 30.24	+20 49.9	2.277	3.211	6.6	21.2
12 17	6 24.14	+32 39.4	1.598	2.565	5.2	20.9	12 17	6 22.13	+20 57.2	2.241	3.215	3.1	21.0
12 27	6 12.71	+32 40.1	1.582	2.557	3.7	20.8	12 27	6 13.30	+21 5.3	2.236	3.218	1.0	20.8
1 6	6 1.52	+32 27.0	1.595	2.550	6.7	21.0	1 6	6 4.66	+21 13.5	2.260	3.221	4.4	21.1
1 16	5 51.99	+32 2.0	1.635	2.542	10.7	21.2	1 16	5 57.08	+21 21.4	2.314	3.224	7.8	21.3
1 26	5 45.26	+31 29.3	1.699	2.534	14.4	21.4	1 26	5 51.27	+21 29.5	2.394	3.227	10.8	21.5
64029	2001 <i>SA</i> ₁₆₆		12 25.1 351°04	4°7/24.8	18		484104	2006 <i>RJ</i> ₁₁₅		12 25.1 126°45	2°8/24.9	18	
11 17	6 46.62	+32 2.0	1.420	2.225	18.6	19.5	11 17	6 46.12	+30 0.0	1.976	2.759	14.8	21.6
11 27	6 42.88	+32 42.9	1.343	2.222	14.9	19.2	11 27	6 41.23	+30 27.1	1.895	2.763	11.7	21.4
12 7	6 35.33	+33 19.9	1.286	2.221	10.6	19.0	12 7	6 33.54	+30 51.5	1.835	2.767	8.1	21.2
12 17	6 24.73	+33 46.5	1.252	2.219	6.3	18.7	12 17	6 23.74	+31 9.4	1.803	2.771	4.4	21.0
12 27	6 12.58	+33 56.8	1.244	2.218	4.8	18.6	12 27	6 12.91	+31 17.3	1.798	2.775	2.9	20.9
1 6	6 0.79	+33 48.9	1.263	2.217	8.1	18.8	1 6	6 2.39	+31 14.4	1.823	2.779	5.9	21.1
1 16	5 51.17	+33 25.1	1.306	2.217	12.5	19.1	1 16	5 53.40	+31 1.7	1.876	2.782	9.6	21.3
1 26	5 45.01	+32 51.1	1.371	2.217	16.6	19.3	1 26	5 46.89	+30 42.5	1.954	2.786	13.0	21.5
388093	2005 <i>UY</i> ₂₂₂		12 25.1 37°63	1°1/25.0	18		434606	2005 <i>UK</i> ₃₂₈		12 25.1 158°47	2°6/24.9	16	
11 17	6 45.50	+25 23.5	1.232	2.050	20.1	20.6	11 17	6 49.97	+28 58.3	1.910	2.689	15.5	22.2
11 27	6 41.81	+25 30.7	1.174	2.064	15.8	20.4	11 27	6 44.31	+29 31.0	1.829	2.695	12.2	22.0
12 7	6 34.39	+25 38.1	1.134	2.078	10.6	20.1	12 7	6 35.67	+30 2.1	1.770	2.701	8.4	21.8
12 17	6 24.16	+25 42.5	1.118	2.093	4.9	19.9	12 17	6 24.73	+30 27.1	1.737	2.707	4.5	21.6
12 27	6 12.75	+25 41.1	1.126	2.109	1.6	19.7	12 27	6 12.68	+30 42.3	1.734	2.712	2.8	21.5
1 6	6 2.05	+25 33.4	1.161	2.125	7.0	20.1	1 6	6 0.95	+30 45.9	1.760	2.716	6.1	21.7
1 16	5 53.68	+25 21.2	1.220	2.142	12.1	20.4	1 16	5 50.86	+30 39.3	1.815	2.719	10.0	21.9
1 26	5 48.70	+25 7.4	1.301	2.160	16.5	20.7	1 26	5 43.44	+30 25.4	1.894	2.722	13.5	22.1
254243	2004 <i>RV</i> ₁₄₃		12 25.1 94°05	2°6/24.8	17		517478	2014 <i>QM</i> ₅₂		12 25.			

EPHEMERIDES

12 25.1

12 25.1

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
199784	2006 <i>KL</i> ₁₀₅		12 25.1 216°31	4.3/25.3	18		199648	2006 <i>GT</i> ₂₂		12 25.1 133°11	1.4/24.9	18	
11 17	6 39.55	+10 27.0	2.434	3.196	13.0	21.3	11 17	6 42.46	+26 40.0	2.514	3.290	12.2	20.8
11 27	6 35.32	+9 55.2	2.345	3.195	10.5	21.1	11 27	6 37.72	+27 3.0	2.429	3.295	9.6	20.6
12 7	6 29.19	+9 31.0	2.279	3.193	7.8	21.0	12 7	6 30.87	+27 25.6	2.367	3.300	6.5	20.5
12 17	6 21.65	+9 15.9	2.239	3.192	5.3	20.8	12 17	6 22.45	+27 45.5	2.333	3.305	3.2	20.3
12 27	6 13.43	+9 11.1	2.228	3.190	4.4	20.7	12 27	6 13.29	+28 0.6	2.329	3.309	1.5	20.1
1 6	6 5.36	+9 16.6	2.247	3.189	6.0	20.8	1 6	6 4.31	+28 9.8	2.355	3.314	4.5	20.4
1 16	5 58.25	+9 31.8	2.294	3.187	8.7	21.0	1 16	5 56.42	+28 13.3	2.411	3.318	7.7	20.6
1 26	5 52.78	+9 55.2	2.366	3.186	11.4	21.2	1 26	5 50.37	+28 12.4	2.493	3.322	10.6	20.8
509192	2006 <i>OD</i> ₇		12 25.1 103°04	27.8/10.9	18		495537	2014 <i>WH</i> ₉₅		12 25.1 297°78	3.6/25.2	18	
11 17	7 15.68	-34 49.0	0.706	1.348	45.4	20.9	11 17	6 39.74	+13 16.6	2.319	3.090	13.3	21.8
11 27	7 6.96	-34 39.3	0.669	1.372	42.4	20.8	11 27	6 35.62	+12 47.4	2.228	3.087	10.6	21.7
12 7	6 52.11	-33 13.5	0.632	1.395	38.7	20.6	12 7	6 29.48	+12 24.3	2.160	3.083	7.7	21.5
12 17	6 32.44	-30 2.6	0.601	1.417	34.6	20.4	12 17	6 21.83	+12 8.6	2.119	3.080	4.8	21.3
12 27	6 10.92	-24 47.4	0.582	1.438	30.6	20.2	12 27	6 13.44	+12 1.1	2.106	3.076	3.7	21.2
1 6	5 51.22	-17 40.4	0.583	1.458	28.1	20.2	1 6	6 5.21	+12 2.1	2.123	3.073	5.7	21.3
1 16	5 36.23	-9 28.5	0.606	1.476	28.1	20.3	1 16	5 57.99	+12 11.1	2.168	3.069	8.8	21.5
1 26	5 27.44	-1 14.2	0.654	1.493	30.3	20.6	1 26	5 52.51	+12 27.1	2.239	3.066	11.7	21.7
11636	Pezinok		12 25.1 170°46	2.2/25.3	18		208829	2002 <i>RW</i> ₅₂		12 25.1 141°53	1.8/25.3	18	
11 17	6 44.73	+16 22.4	2.039	2.813	14.7	19.4	11 17	6 44.53	+17 38.4	2.107	2.882	14.3	21.2
11 27	6 39.81	+16 26.0	1.952	2.816	11.7	19.2	11 27	6 39.53	+17 40.1	2.025	2.890	11.3	21.0
12 7	6 32.44	+16 36.3	1.888	2.819	8.1	19.0	12 7	6 32.18	+17 47.0	1.967	2.898	7.7	20.8
12 17	6 23.21	+16 52.8	1.851	2.820	4.2	18.8	12 17	6 23.08	+17 58.5	1.934	2.905	3.9	20.6
12 27	6 13.05	+17 14.4	1.843	2.822	2.3	18.6	12 27	6 13.15	+18 13.7	1.932	2.912	1.9	20.5
1 6	6 3.09	+17 39.7	1.864	2.823	5.5	18.9	1 6	6 3.48	+18 31.4	1.959	2.919	5.2	20.7
1 16	5 54.39	+18 7.4	1.915	2.824	9.3	19.1	1 16	5 55.07	+18 50.9	2.016	2.925	8.9	21.0
1 26	5 47.82	+18 36.7	1.991	2.824	12.7	19.3	1 26	5 48.72	+19 11.6	2.098	2.930	12.2	21.2
41930	2000 <i>WO</i> ₁₇₅		12 25.1 65°65	1.7/25.4	18		86344	1999 <i>XA</i> ₆₇		12 25.1 306°78	0.4/25.0	18	
11 17	6 43.02	+16 7.2	1.979	2.759	14.9	18.8	11 17	6 43.47	+22 10.8	1.359	2.171	18.9	19.3
11 27	6 38.50	+16 35.9	1.903	2.770	11.8	18.6	11 27	6 40.56	+22 37.8	1.265	2.153	15.0	19.0
12 7	6 31.56	+17 13.1	1.850	2.782	8.0	18.4	12 7	6 34.01	+23 11.6	1.192	2.135	10.3	18.7
12 17	6 22.79	+17 57.1	1.823	2.794	4.0	18.2	12 17	6 24.33	+23 49.3	1.141	2.117	4.8	18.3
12 27	6 13.16	+18 45.6	1.825	2.806	1.8	18.1	12 27	6 12.79	+24 26.6	1.116	2.099	1.3	18.0
1 6	6 3.78	+19 35.8	1.857	2.818	5.2	18.3	1 6	6 1.18	+24 59.9	1.117	2.082	7.2	18.4
1 16	5 55.69	+20 25.2	1.917	2.830	9.1	18.6	1 16	5 51.32	+25 27.2	1.143	2.065	12.8	18.6
1 26	5 49.74	+21 12.6	2.003	2.842	12.4	18.8	1 26	5 44.74	+25 49.2	1.191	2.049	17.8	18.9
335477	2005 <i>WL</i> ₁₀₃		12 25.1 55°46	0.3/25.1	18		171150	2005 <i>GB</i> ₇₃		12 25.1 331°96	15.9/19.9	17	
11 17	6 46.84	+20 17.6	1.335	2.141	19.5	20.5	11 17	7 0.92	+56 6.9	1.664	2.384	19.6	19.5
11 27	6 42.49	+20 48.4	1.278	2.161	15.2	20.2	11 27	6 57.36	+58 59.7	1.600	2.377	18.0	19.3
12 7	6 34.69	+21 26.2	1.240	2.181	10.2	20.0	12 7	6 47.55	+61 37.2	1.556	2.370	16.6	19.2
12 17	6 24.30	+22 7.8	1.226	2.201	4.7	19.8	12 17	6 31.46	+63 43.1	1.533	2.363	16.0	19.2
12 27	6 12.81	+22 48.8	1.239	2.222	1.1	19.6	12 27	6 10.95	+65 2.2	1.531	2.357	16.1	19.2
1 6	6 1.93	+23 25.9	1.278	2.242	6.6	20.0	1 6	5 49.84	+65 28.0	1.549	2.352	17.1	19.2
1 16	5 53.15	+23 57.8	1.344	2.263	11.5	20.3	1 16	5 32.38	+65 4.7	1.586	2.347	18.6	19.3
1 26	5 47.54	+24 24.9	1.432	2.284	15.7	20.6	1 26	5 21.55	+64 5.4	1.639	2.342	20.3	19.4
196397	2003 <i>GS</i> ₂₅		12 25.1 248°80	0.5/25.0	18		460907	2014 <i>WD</i> ₁₉₉		12 25.1 105°53	4.4/25.5	18	
11 17	6 46.12	+23 14.1	1.792	2.581	15.9	21.2	11 17	6 39.40	+9 47.4	2.383	3.145	13.2	21.6
11 27	6 41.59	+23 33.7	1.696	2.570	12.6	20.9	11 27	6 35.27	+9 25.9	2.296	3.145	10.7	21.5
12 7	6 34.07	+23 56.5	1.621	2.558	8.6	20.7	12 7	6 29.20	+9 13.1	2.231	3.145	8.0	21.3
12 17	6 24.11	+24 19.8	1.572	2.546	4.0	20.4	12 17	6 21.69	+9 10.5	2.192	3.145	5.4	21.1
12 27	6 12.81	+24 40.7	1.551	2.533	1.1	20.1	12 27	6 13.49	+9 18.7	2.183	3.145	4.4	21.1
1 6	6 1.58	+24 57.2	1.559	2.521	5.9	20.4	1 6	6 5.44	+9 37.3	2.202	3.145	6.1	21.2
1 16	5 51.79	+25 8.8	1.595	2.508	10.5	20.7	1 16	5 58.36	+10 5.1	2.250	3.145	8.8	21.3
1 26	5 44.59	+25 16.8	1.655	2.494	14.5	20.9	1 26	5 52.94	+10 40.2	2.323	3.146	11.5	21.5
274446	2008 <i>ST</i> ₄₈		12 25.1 87°62	4.2/24.9	17		493672	2015 <i>RK</i> ₁₉₁		12 25.1 160°39	1.7/24.9	18	
11 17	6 45.32	+35 27.4	2.331	3.101	13.2	20.8	11 17	6 46.94	+27 19.2	2.134	2.911	14.1	22.2
11 27	6 40.27	+35 59.8	2.253	3.109	10.6	20.6	11 27	6 41.59	+27 40.7	2.050	2.916	11.1	22.0
12 7	6 32.73	+36 26.3	2.197	3.116	7.7	20.4	12 7	6 33.67	+28 1.2	1.988	2.921	7.5	21.8
12 17	6 23.32	+36 42.6	2.168	3.124	5.1	20.3	12 17	6 23.80	+28 17.7	1.954	2.925	3.7	21.5
12 27	6 13.06	+36 45.7	2.167	3.132	4.2	20.2	12 27	6 12.99	+28 27.5	1.949	2.929	1.9	21.4
1 6	6 3.12	+36 34.8	2.196	3.139	6.1	20.4	1 6	6 2.44	+28 29.6	1.974	2.932	5.3	21.6
1 16	5 54.58	+36 11.8	2.253	3.147	8.9	20.6	1 16	5 53.28	+28 24.6	2.028	2.935	9.0	21.9
1 26	5 48.27	+35 40.0	2.336	3.154	11.6	20.7	1 26	5 46.40	+28 14.8	2.108	2.937	12.2	22.1
113639	2002 <i>TK</i> ₇₆		12 25.1 2°99	1.5/25.1	18		86819	2000 <i>GK</i> ₁₃₇		12 25.1 83°13	6.5/26.1	17	
11 17	6 39.52	+22 24.1	1.035	1.874	21.6	19.3	11 17	7 0.99	+7 27.9	1.443	2.190	21.0	20.9
11 27	6 37.85	+21 53.9	0.970	1.872	17.1	19.0	11 27	6 52.25	+7 0.9	1.406	2.244	16.8	20.8
12 7	6 32.18	+21 25.0	0.923	1.871	11.6	18.7	12 7	6 40.44	+6 50.6	1.389	2.296	12.3	20.7
12 17	6 23.36	+20 57.3	0.896	1.872	5.5	18.4	12 17	6 26.64	+6 58.3	1.397	2.347	8.2	20.6
12 27	6 13.04	+20 31.5	0.892	1.875	1.9	18.2	12 27	6 12.40	+7 23.6	1.434	2.395	6.6	20.6
1 6	6 3.27	+20 8.9	0.912	1.879	7.9	18.5	1 6	5 59.32	+8 3.5	1.501	2.441	8.6	20.8
1 16	5 55.86	+19 51.3	0.954	1.885	13.7	18.9	1 16	5 48.62	+8 53.8	1.595	2.485	12.1	21.1
1 26	5 52.07	+19 40.0	1.016	1.892	18.7	19.2	1 26	5 41.07	+9 50.4	1.713	2.527	15.3	21.4
216271	2006 <i>WE</i> ₁₀₁		12 25.1 86°06	1.1/25.2	18		274807	2008 <i>XU</i> ₁₃		12 25.1 182°84	4.0/24.6	18</	

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
103143	1999 XY ₂₀₈	12 25.1	346°88	6°4/25.3	17		322999	2002 OK ₃₆	12 25.1	140°69	5°6/25.0	17	
11 17	6 44.58	+36 59.1	1.374	2.180	19.1	18.6	11 17	6 49.03	+43 0.7	2.831	3.568	11.9	21.4
11 27	6 41.65	+37 28.4	1.295	2.171	15.6	18.3	11 27	6 42.90	+43 37.2	2.753	3.578	9.9	21.3
12 7	6 34.71	+37 47.4	1.235	2.163	11.6	18.0	12 7	6 34.35	+44 4.3	2.698	3.587	7.8	21.2
12 17	6 24.55	+37 49.0	1.197	2.156	7.9	17.8	12 17	6 24.05	+44 17.5	2.669	3.596	6.1	21.1
12 27	6 12.80	+37 27.6	1.184	2.151	6.5	17.7	12 27	6 12.97	+44 13.8	2.670	3.605	5.6	21.1
1 6	6 1.50	+36 42.8	1.196	2.146	9.1	17.9	1 6	6 2.25	+43 52.7	2.699	3.613	6.7	21.1
1 16	5 52.53	+35 39.3	1.232	2.143	13.2	18.1	1 16	5 52.91	+43 16.4	2.757	3.621	8.6	21.3
1 26	5 47.21	+34 25.5	1.290	2.140	17.2	18.3	1 26	5 45.75	+42 29.0	2.841	3.628	10.6	21.4
279042	2008 VH ₃₃	12 25.1	18°86	1°7/24.8	18		490930	2011 CA ₆₂	12 25.1	201°83	1°5/25.2	18	
11 17	6 42.06	+26 27.7	2.288	3.070	13.1	20.7	11 17	6 46.98	+19 19.3	1.804	2.587	16.1	22.7
11 27	6 37.72	+27 7.1	2.201	3.071	10.3	20.5	11 27	6 42.02	+19 15.0	1.715	2.584	12.7	22.5
12 7	6 31.05	+27 47.4	2.138	3.073	7.0	20.3	12 7	6 34.19	+19 15.1	1.647	2.581	8.7	22.2
12 17	6 22.61	+28 25.4	2.102	3.074	3.5	20.1	12 17	6 24.14	+19 18.8	1.604	2.577	4.3	22.0
12 27	6 13.27	+28 58.1	2.096	3.076	1.9	20.0	12 27	6 12.93	+19 25.1	1.591	2.572	1.8	21.8
1 6	6 4.07	+29 23.4	2.120	3.078	5.0	20.2	1 6	6 1.92	+19 33.0	1.606	2.567	5.9	22.0
1 16	5 56.03	+29 41.1	2.172	3.079	8.4	20.4	1 16	5 52.37	+19 42.4	1.650	2.561	10.3	22.3
1 26	5 49.99	+29 52.1	2.250	3.081	11.5	20.6	1 26	5 45.33	+19 53.4	1.718	2.555	14.2	22.5
219170	1999 TA ₆₉	12 25.1	93°53	0°7/25.1	18		523293	2017 BY ₆₇	12 25.1	90°99	0°2/25.1	18	
11 17	6 43.33	+25 5.0	2.178	2.961	13.7	20.9	11 17	6 44.80	+20 56.8	1.880	2.667	15.4	21.3
11 27	6 38.63	+25 11.4	2.097	2.968	10.7	20.7	11 27	6 40.11	+21 22.3	1.804	2.676	12.0	21.1
12 7	6 31.58	+25 17.8	2.039	2.975	7.2	20.5	12 7	6 32.77	+21 52.4	1.750	2.686	8.1	20.9
12 17	6 22.81	+25 22.1	2.008	2.982	3.3	20.3	12 17	6 23.42	+22 24.7	1.722	2.696	3.7	20.7
12 27	6 13.24	+25 22.9	2.006	2.989	1.0	20.1	12 27	6 13.12	+22 56.7	1.723	2.706	0.9	20.5
1 6	6 3.96	+25 19.7	2.034	2.995	4.8	20.4	1 6	6 3.10	+23 26.1	1.754	2.716	5.3	20.8
1 16	5 55.95	+25 13.2	2.091	3.002	8.5	20.7	1 16	5 54.53	+23 52.0	1.812	2.725	9.4	21.1
1 26	5 50.03	+25 4.7	2.173	3.009	11.7	20.9	1 26	5 48.32	+24 14.5	1.896	2.735	13.0	21.3
120940	1998 TN ₁₂	12 25.1	115°33	0°0/25.1	18		410918	2009 SJ ₁₉₉	12 25.1	90°22	5°6/25.5	18	
11 17	6 42.52	+23 4.0	2.426	3.203	12.6	20.8	11 17	6 42.52	+ 6 38.6	2.369	3.115	13.7	22.1
11 27	6 37.70	+23 7.5	2.345	3.212	9.8	20.6	11 27	6 37.41	+ 5 52.9	2.306	3.140	11.3	22.0
12 7	6 30.81	+23 11.9	2.287	3.221	6.6	20.4	12 7	6 30.45	+ 5 17.3	2.266	3.165	8.6	21.9
12 17	6 22.42	+23 16.1	2.257	3.230	3.0	20.2	12 17	6 22.19	+ 4 54.2	2.252	3.189	6.4	21.8
12 27	6 13.34	+23 18.8	2.256	3.239	0.7	20.0	12 27	6 13.43	+ 4 45.0	2.266	3.213	5.6	21.8
1 6	6 4.51	+23 19.6	2.287	3.248	4.4	20.3	1 6	6 5.02	+ 4 49.6	2.310	3.237	6.9	21.9
1 16	5 56.81	+23 18.8	2.346	3.256	7.8	20.6	1 16	5 57.72	+ 5 6.9	2.382	3.260	9.1	22.1
1 26	5 50.94	+23 17.2	2.432	3.264	10.7	20.8	1 26	5 52.14	+ 5 34.4	2.479	3.283	11.4	22.3
51114	2000 HH ₂₉	12 25.1	333°55	2°1/24.7	18		118612	2000 GU ₁₄₃	12 25.1	166°73	2°9/25.4	18	R
11 17	6 42.32	+26 10.6	2.118	2.905	13.9	18.7	11 17	6 45.90	+14 54.9	1.877	2.652	15.8	20.0
11 27	6 38.22	+27 3.3	2.027	2.899	10.9	18.5	11 27	6 40.92	+14 52.0	1.793	2.656	12.6	19.8
12 7	6 31.58	+27 58.4	1.959	2.894	7.5	18.3	12 7	6 33.31	+14 57.2	1.731	2.659	8.8	19.6
12 17	6 22.93	+28 52.1	1.918	2.889	3.8	18.1	12 17	6 23.68	+15 10.4	1.695	2.662	4.9	19.4
12 27	6 13.19	+29 40.3	1.906	2.885	2.3	18.0	12 27	6 13.06	+15 31.0	1.687	2.664	3.0	19.3
1 6	6 3.51	+30 19.9	1.923	2.880	5.5	18.2	1 6	6 2.66	+15 57.4	1.709	2.666	6.1	19.5
1 16	5 55.03	+30 49.9	1.969	2.876	9.2	18.4	1 16	5 53.65	+16 28.3	1.759	2.667	10.0	19.7
1 26	5 48.72	+31 11.1	2.040	2.873	12.5	18.6	1 26	5 46.95	+17 2.1	1.834	2.668	13.6	19.9
380997	2006 TG ₄₂	12 25.1	103°05	3°6/25.2	16		302599	2002 QM ₆₅	12 25.1	59°96	1°3/25.0	18	
11 17	6 47.86	+16 18.6	1.543	2.331	18.1	21.5	11 17	6 45.58	+26 9.5	1.686	2.482	16.5	20.9
11 27	6 42.75	+15 41.2	1.475	2.346	14.4	21.3	11 27	6 41.04	+26 21.8	1.615	2.493	12.9	20.7
12 7	6 34.61	+15 9.9	1.428	2.360	10.0	21.1	12 7	6 33.53	+26 33.6	1.566	2.504	8.7	20.5
12 17	6 24.24	+14 46.0	1.406	2.373	5.6	20.9	12 17	6 23.78	+26 41.9	1.541	2.515	4.1	20.2
12 27	6 12.92	+14 30.6	1.411	2.387	3.8	20.8	12 27	6 13.05	+26 44.3	1.545	2.527	1.6	20.1
1 6	6 2.13	+14 24.0	1.444	2.400	7.1	21.0	1 6	6 2.77	+26 40.1	1.576	2.538	5.9	20.4
1 16	5 53.16	+14 26.1	1.503	2.412	11.3	21.3	1 16	5 54.22	+26 30.5	1.635	2.550	10.2	20.7
1 26	5 46.95	+14 36.0	1.586	2.425	15.1	21.6	1 26	5 48.36	+26 17.8	1.718	2.562	13.9	20.9
506160	2016 ES ₂₀₃	12 25.1	40°40	21°3/25.3	17		316154	2009 TP ₃₉	12 25.1	8°43	4°5/25.1	17	
11 17	6 43.77	-11 7.6	1.071	1.815	27.0	21.3	11 17	6 40.33	+12 42.8	2.007	2.785	14.8	20.3
11 27	6 40.61	-14 21.2	1.030	1.821	24.9	21.1	11 27	6 36.35	+11 57.5	1.924	2.785	11.9	20.1
12 7	6 33.74	-17 0.7	1.004	1.828	23.0	21.0	12 7	6 30.10	+11 18.9	1.864	2.786	8.7	19.9
12 17	6 24.01	-18 50.6	0.993	1.836	21.7	21.0	12 17	6 22.16	+10 49.0	1.829	2.787	5.6	19.7
12 27	6 12.96	-19 39.6	0.998	1.844	21.4	21.0	12 27	6 13.43	+10 29.8	1.822	2.789	4.6	19.6
1 6	6 2.45	-19 25.6	1.020	1.852	22.0	21.0	1 6	6 4.93	+10 21.9	1.844	2.791	6.7	19.8
1 16	5 54.13	-18 15.3	1.058	1.861	23.4	21.2	1 16	5 57.64	+10 25.1	1.892	2.793	9.9	20.0
1 26	5 49.17	-16 21.6	1.109	1.870	25.0	21.3	1 26	5 52.34	+10 38.1	1.965	2.795	13.0	20.2
493367	2014 WD ₆₇	12 25.1	344°03	0°3/25.1	18		504468	2008 DT ₅₅	12 25.1	245°44	17°3/25.0	17	
11 17	6 41.16	+21 23.3	2.247	3.030	13.3	21.1	11 17	7 7.59	+55 3.4	1.230	1.976	24.0	21.7
11 27	6 36.93	+21 37.4	2.158	3.029	10.4	20.9	11 27	7 3.38	+57 4.6	1.167	1.972	21.7	21.5
12 7	6 30.48	+21 54.5	2.092	3.028	7.0	20.7	12 7	6 51.66	+58 44.6	1.119	1.967	19.5	21.3
12 17	6 22.34	+22 13.3	2.053	3.027	3.2	20.5	12 17	6 33.08	+59 43.8	1.089	1.963	17.8	21.2
12 27	6 13.36	+22 32.2	2.044	3.026	0.8	20.3	12 27	6 10.81	+59 44.2	1.078	1.958	17.4	21.1
1 6	6 4.53	+22 49.8	2.064	3.026	4.7	20.6	1 6	5 49.74	+58 41.2	1.087	1.953	18.4	21.2
1 16	5 56.82	+23 5.7	2.113	3.025	8.3	20.8	1 16	5 34.06	+56 45.7	1.115	1.948	20.4	21.3
1 26	5 51.03	+23 19.9	2.188	3.025	11.6	21.0	1 26	5 25.74	+54 17.7	1.160	1.943	22.9	21.5
339081	2004 RF ₂₈	12 25.1	146°30	0°8/25.2	15		49825	1999 XW ₇₃	12 25.1	288°05	0°6/25.0	18	
11 17	6 47.57	+20 38.6											

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
208316	2001 <i>ME</i>	12 25.1 207°02 3°5/25.6 18					169709	2002 <i>LW</i> ₄₂	12 25.1 241°28 4°9/25.7 18				
11 17	6 43.30	+11 26.1	2.479	3.234	13.0	21.1	11 17	6 43.50	+ 8 56.8	2.137	2.894	14.7	20.2
11 27	6 38.31	+11 23.1	2.380	3.228	10.4	20.9	11 27	6 38.88	+ 8 43.0	2.034	2.880	12.0	20.0
12 7	6 31.29	+11 28.5	2.304	3.221	7.6	20.7	12 7	6 31.92	+ 8 40.0	1.953	2.866	9.0	19.7
12 17	6 22.70	+11 42.7	2.255	3.214	4.7	20.5	12 17	6 23.09	+ 8 49.4	1.899	2.851	6.1	19.5
12 27	6 13.31	+12 5.6	2.236	3.206	3.5	20.4	12 27	6 13.24	+ 9 12.1	1.872	2.835	4.9	19.4
1 6	6 3.98	+12 36.2	2.248	3.197	5.5	20.5	1 6	6 3.39	+ 9 47.0	1.875	2.820	6.8	19.5
1 16	5 55.60	+13 13.0	2.290	3.188	8.5	20.7	1 16	5 54.59	+10 32.3	1.907	2.803	10.1	19.7
1 26	5 48.90	+13 54.3	2.358	3.179	11.4	20.9	1 26	5 47.72	+11 25.3	1.963	2.786	13.3	19.9
22651	1998 <i>QW</i>	12 25.1 117°78 6°6/25.3 18					228306	2000 <i>HT</i> ₇₈	12 25.1 261°77 0°3/25.1 18				
11 17	6 44.00	+ 6 50.6	2.038	2.791	15.4	17.9	11 17	6 42.45	+21 15.0	2.485	3.259	12.4	20.3
11 27	6 38.98	+ 5 49.5	1.966	2.804	12.7	17.8	11 27	6 37.89	+21 57.1	2.382	3.248	9.8	20.1
12 7	6 31.73	+ 4 59.0	1.916	2.817	9.8	17.6	12 7	6 31.16	+22 44.1	2.304	3.238	6.6	19.9
12 17	6 22.87	+ 4 22.5	1.892	2.829	7.4	17.5	12 17	6 22.72	+23 33.7	2.254	3.227	3.0	19.6
12 27	6 13.30	+ 4 2.5	1.895	2.841	6.6	17.5	12 27	6 13.33	+24 23.0	2.234	3.216	0.8	19.4
1 6	6 4.07	+ 3 59.6	1.927	2.853	8.1	17.6	1 6	6 3.93	+25 9.5	2.245	3.206	4.5	19.7
1 16	5 56.10	+ 4 12.8	1.986	2.864	10.7	17.7	1 16	5 55.45	+25 51.6	2.286	3.195	8.0	19.9
1 26	5 50.14	+ 4 39.3	2.069	2.875	13.3	17.9	1 26	5 48.75	+26 28.8	2.354	3.183	11.1	20.1
257590	1999 <i>KY</i> ₁₃	12 25.1 134°06 0°6/25.2 18					21440	Elizacollins	12 25.1 149°04 1°6/25.3 18				
11 17	6 44.02	+20 9.2	2.745	3.509	11.6	21.5	11 17	6 47.24	+18 48.5	1.603	2.393	17.4	19.3
11 27	6 38.56	+20 25.5	2.665	3.525	9.1	21.4	11 27	6 42.48	+18 53.0	1.525	2.398	13.8	19.1
12 7	6 31.26	+20 44.7	2.609	3.540	6.1	21.2	12 7	6 34.63	+19 3.8	1.467	2.402	9.4	18.9
12 17	6 22.61	+21 5.5	2.582	3.555	2.8	21.0	12 17	6 24.38	+19 19.7	1.434	2.406	4.6	18.6
12 27	6 13.36	+21 26.5	2.586	3.569	0.8	20.9	12 27	6 12.96	+19 38.7	1.428	2.410	1.8	18.4
1 6	6 4.33	+21 46.7	2.622	3.582	4.0	21.1	1 6	6 1.84	+19 59.2	1.452	2.413	6.3	18.7
1 16	5 56.28	+22 5.5	2.689	3.595	7.1	21.3	1 16	5 52.41	+20 20.3	1.502	2.416	10.9	19.0
1 26	5 49.87	+22 22.9	2.783	3.607	9.7	21.5	1 26	5 45.74	+20 41.7	1.576	2.419	15.0	19.2
241116	2007 <i>PB</i> ₆	12 25.1 107°78 1°2/25.2 18					418553	2008 <i>SD</i> ₁₂₁	12 25.1 357°41 3°4/25.2 18				
11 17	6 44.73	+19 12.7	1.754	2.543	16.2	20.2	11 17	6 39.81	+14 30.5	2.189	2.966	13.8	21.0
11 27	6 40.26	+19 21.4	1.674	2.547	12.8	20.0	11 27	6 35.80	+14 0.1	2.102	2.965	11.0	20.8
12 7	6 33.00	+19 35.6	1.616	2.552	8.7	19.8	12 7	6 29.68	+13 35.1	2.038	2.964	7.8	20.6
12 17	6 23.59	+19 54.2	1.583	2.556	4.2	19.5	12 17	6 21.98	+13 17.0	2.000	2.964	4.7	20.4
12 27	6 13.12	+20 15.3	1.578	2.560	1.5	19.3	12 27	6 13.53	+13 6.6	1.991	2.964	3.5	20.3
1 6	6 2.93	+20 37.2	1.602	2.564	5.8	19.6	1 6	6 5.28	+13 4.1	2.012	2.964	5.8	20.4
1 16	5 54.24	+20 58.9	1.653	2.568	10.1	19.9	1 16	5 58.12	+13 9.2	2.060	2.964	9.0	20.6
1 26	5 48.03	+21 20.4	1.729	2.571	13.9	20.1	1 26	5 52.80	+13 21.2	2.133	2.964	12.0	20.8
445639	2011 <i>TL</i> ₆	12 25.1 158°11 4°6/25.5 18					240150	2002 <i>LL</i> ₉	12 25.1 127°06 0°9/24.9 18				
11 17	6 43.78	+10 29.1	2.070	2.833	14.9	22.1	11 17	6 47.56	+22 56.5	2.064	2.840	14.5	20.7
11 27	6 38.94	+10 4.6	1.987	2.838	12.1	21.9	11 27	6 42.11	+23 43.6	1.986	2.853	11.4	20.5
12 7	6 31.81	+ 9 49.5	1.926	2.843	8.9	21.7	12 7	6 34.06	+24 34.6	1.931	2.865	7.6	20.3
12 17	6 22.95	+ 9 45.2	1.892	2.847	5.9	21.5	12 17	6 24.04	+25 25.6	1.904	2.877	3.5	20.0
12 27	6 13.28	+ 9 52.7	1.886	2.851	4.7	21.5	12 27	6 13.05	+26 13.1	1.906	2.888	1.3	19.9
1 6	6 3.83	+10 11.3	1.909	2.854	6.6	21.6	1 6	6 2.30	+26 54.0	1.940	2.899	5.2	20.2
1 16	5 55.60	+10 39.6	1.960	2.857	9.8	21.8	1 16	5 52.91	+27 27.3	2.002	2.910	9.0	20.4
1 26	5 49.37	+11 15.5	2.036	2.859	12.8	22.0	1 26	5 45.82	+27 53.7	2.090	2.920	12.3	20.7
37753	1997 <i>CO</i> ₁₃	12 25.1 70°27 0°1/25.1 18					183380	2002 <i>XP</i> ₄₈	12 25.1 102°67 1°2/25.2 18				
11 17	6 43.42	+23 27.6	2.005	2.792	14.5	19.6	11 17	6 49.57	+20 6.5	1.694	2.478	16.9	20.6
11 27	6 38.87	+23 30.1	1.927	2.800	11.4	19.4	11 27	6 43.84	+20 4.6	1.630	2.500	13.2	20.4
12 7	6 31.84	+23 33.7	1.872	2.809	7.6	19.2	12 7	6 35.22	+20 6.7	1.587	2.522	8.9	20.2
12 17	6 22.98	+23 36.8	1.843	2.817	3.5	18.9	12 17	6 24.52	+20 11.4	1.570	2.543	4.2	20.0
12 27	6 13.28	+23 37.9	1.843	2.825	0.8	18.7	12 27	6 12.97	+20 17.3	1.581	2.563	1.5	19.8
1 6	6 3.90	+23 36.6	1.872	2.834	5.0	19.0	1 6	6 1.97	+20 23.7	1.622	2.583	5.8	20.2
1 16	5 55.90	+23 33.3	1.929	2.842	9.0	19.3	1 16	5 52.74	+20 30.4	1.691	2.603	10.1	20.5
1 26	5 50.10	+23 29.2	2.011	2.851	12.3	19.5	1 26	5 46.18	+20 38.1	1.784	2.621	13.8	20.7
448359	2009 <i>HZ</i> ₂₁	12 25.1 39°19 22°6/25.5 17					267143	2000 <i>FA</i> ₅	12 25.1 319°79 4°4/25.3 18				
11 17	6 44.53	-13 21.9	1.057	1.791	27.9	20.7	11 17	6 39.39	+11 8.9	2.224	2.994	13.8	20.4
11 27	6 41.43	-16 28.9	1.012	1.793	25.9	20.6	11 27	6 35.47	+10 36.7	2.134	2.989	11.2	20.2
12 7	6 34.47	-19 0.8	0.981	1.795	24.1	20.5	12 7	6 29.47	+10 12.3	2.066	2.984	8.2	20.0
12 17	6 24.45	-20 41.4	0.964	1.797	23.0	20.4	12 17	6 21.90	+ 9 57.3	2.024	2.980	5.5	19.8
12 27	6 12.92	-21 18.4	0.962	1.799	22.6	20.4	12 27	6 13.56	+ 9 53.0	2.011	2.975	4.5	19.8
1 6	6 1.80	-20 49.2	0.976	1.802	23.2	20.4	1 6	6 5.37	+ 9 59.5	2.026	2.971	6.3	19.9
1 16	5 52.88	-19 20.2	1.004	1.804	24.5	20.5	1 16	5 58.21	+10 16.1	2.069	2.967	9.3	20.1
1 26	5 47.47	-17 5.0	1.046	1.807	26.3	20.7	1 26	5 52.83	+10 41.2	2.137	2.963	12.2	20.2
108121	2001 <i>GW</i> ₄	12 25.1 253°52 1°2/24.9 18					483418	2000 <i>BK</i> ₂₂	12 25.1 299°68 3°9/25.1 17				
11 17	6 42.84	+24 54.2	2.420	3.198	12.6	19.9	11 17	6 46.29	+32 59.7	1.755	2.545	16.2	21.6
11 27	6 38.28	+25 29.0	2.320	3.187	9.9	19.7	11 27	6 42.04	+33 18.3	1.662	2.532	13.0	21.4
12 7	6 31.46	+26 5.9	2.243	3.177	6.7	19.5	12 7	6 34.54	+33 31.1	1.590	2.520	9.3	21.1
12 17	6 22.86	+26 42.0	2.194	3.166	3.2	19.2	12 17	6 24.43	+33 33.4	1.542	2.507	5.5	20.9
12 27	6 13.29	+27 14.8	2.174	3.156	1.4	19.1	12 27	6 12.96	+33 21.4	1.522	2.495	4.0	20.8
1 6	6 3.75	+27 42.1	2.186	3.145	4.7	19.3	1 6	6 1.71	+32 54.3	1.529	2.483	7.0	20.9
1 16	5 55.23	+28 3.2	2.226	3.134	8.3	19.5	1 16	5 52.18	+32 14.6	1.563	2.472	11.0	21.1
1 26	5 48.59	+28 18.7	2.293	3.122	11.4	19.7	1 26	5 45.54	+31 27.4	1.621	2.460	14.8	21.3
136144	2003 <i>SV</i> ₂₈₈	12 25.1 184°84 3°1/24.8 18					426087	2012 <i>DY</i> ₄₄	12 25.1 167°92 2°9/24.9 18				
11 17	6 51.27	+29 15.5	1.750	2.532	16.5	20.7	11 17	6 51.92	+29 8.0	1.828	2.606	16.1	22.2
11 27	6 45.79	+29 56.7	1.665	2.533	13.1	20.5	11 27	6 46.08	+29 47.2	1.746	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
182701	2001 VB ₁₁₅		12 25.1	42°55	1.8°/25.0	17	177887	2005 QC ₁₄₁		12 25.1	154°48	5°0/25.8	18
11 17	6 44.37	+27 33.6	1.802	2.596	15.7	20.5	11 17	6 42.18	+7 6.7	2.453	3.199	13.3	21.1
11 27	6 40.02	+27 49.1	1.727	2.603	12.3	20.3	11 27	6 37.33	+6 48.0	2.369	3.205	10.9	21.0
12 7	6 32.83	+28 3.2	1.673	2.610	8.4	20.1	12 7	6 30.57	+6 39.7	2.308	3.212	8.3	20.8
12 17	6 23.51	+28 12.6	1.645	2.618	4.2	19.8	12 17	6 22.39	+6 43.2	2.274	3.218	5.9	20.7
12 27	6 13.21	+28 14.9	1.645	2.626	2.0	19.7	12 27	6 13.54	+6 59.1	2.268	3.223	5.0	20.6
1 6	6 3.28	+28 9.3	1.673	2.634	5.8	20.0	1 6	6 4.88	+7 26.8	2.292	3.228	6.4	20.7
1 16	5 54.95	+27 57.2	1.729	2.642	9.8	20.2	1 16	5 57.20	+8 4.6	2.345	3.233	8.8	20.9
1 26	5 49.17	+27 40.9	1.809	2.651	13.4	20.5	1 26	5 51.19	+8 50.0	2.424	3.237	11.4	21.1
50704	2000 EK ₁₃₂		12 25.1	138°31	4°1/25.4	18	415414	2013 PX ₅₈		12 25.1	147°33	1°3/25.2	17
11 17	6 46.11	+13 23.8	1.806	2.581	16.4	18.8	11 17	6 41.97	+19 45.6	2.596	3.367	12.0	21.5
11 27	6 41.07	+12 57.0	1.729	2.590	13.1	18.6	11 27	6 37.13	+19 30.3	2.509	3.373	9.4	21.4
12 7	6 33.39	+12 38.4	1.674	2.599	9.4	18.4	12 7	6 30.40	+19 16.9	2.447	3.378	6.4	21.2
12 17	6 23.74	+12 29.2	1.644	2.607	5.7	18.2	12 17	6 22.30	+19 5.4	2.412	3.384	3.2	21.0
12 27	6 13.17	+12 30.0	1.642	2.614	4.2	18.1	12 27	6 13.57	+18 55.7	2.408	3.389	1.4	20.9
1 6	6 2.94	+12 40.5	1.669	2.621	6.8	18.3	1 6	6 5.06	+18 47.8	2.435	3.394	4.3	21.1
1 16	5 54.17	+12 59.6	1.724	2.628	10.5	18.5	1 16	5 57.55	+18 42.0	2.491	3.398	7.5	21.3
1 26	5 47.76	+13 25.6	1.803	2.634	13.9	18.8	1 26	5 51.71	+18 38.7	2.574	3.402	10.3	21.5
101105	1998 RS ₄₂		12 25.1	35°16	1°3/25.2	18	357714	2005 QS ₅₂		12 25.1	132°05	3°3/24.9	18
11 17	6 46.69	+27 18.2	1.244	2.059	20.1	19.0	11 17	6 48.08	+33 22.0	2.594	3.355	12.3	21.9
11 27	6 42.85	+27 6.4	1.181	2.069	15.8	18.8	11 27	6 42.08	+33 54.5	2.518	3.371	9.8	21.8
12 7	6 35.19	+26 51.4	1.137	2.080	10.7	18.5	12 7	6 33.81	+34 22.4	2.465	3.386	7.0	21.6
12 17	6 24.68	+26 30.2	1.116	2.091	5.1	18.3	12 17	6 23.87	+34 42.1	2.441	3.401	4.3	21.5
12 27	6 12.97	+26 1.5	1.120	2.103	1.7	18.1	12 27	6 13.21	+34 50.9	2.446	3.415	3.4	21.4
1 6	6 1.98	+25 26.6	1.151	2.115	7.0	18.5	1 6	6 2.85	+34 47.9	2.483	3.428	5.3	21.6
1 16	5 53.35	+24 49.1	1.206	2.128	12.2	18.8	1 16	5 53.77	+34 34.5	2.549	3.441	8.0	21.8
1 26	5 48.18	+24 13.1	1.283	2.142	16.7	19.1	1 26	5 46.74	+34 13.5	2.641	3.454	10.6	22.0
21191	1994 JL ₆		12 25.1	147°91	1°4/25.2	18	344882	2004 PS ₆₃		12 25.1	96°77	2°8/25.1	18
11 17	6 44.57	+20 0.7	1.766	2.556	16.1	19.2	11 17	6 50.09	+30 14.1	1.698	2.484	16.8	21.0
11 27	6 40.15	+19 52.5	1.683	2.557	12.7	19.0	11 27	6 44.61	+30 28.4	1.629	2.499	13.2	20.8
12 7	6 32.94	+19 48.0	1.622	2.558	8.6	18.8	12 7	6 35.95	+30 38.5	1.582	2.514	9.1	20.6
12 17	6 23.59	+19 46.5	1.586	2.559	4.2	18.5	12 17	6 24.95	+30 40.2	1.559	2.529	4.8	20.4
12 27	6 13.21	+19 47.3	1.578	2.560	1.6	18.3	12 27	6 12.97	+30 30.6	1.566	2.544	2.9	20.3
1 6	6 3.09	+19 49.6	1.599	2.560	5.8	18.6	1 6	6 1.56	+30 9.8	1.600	2.558	6.3	20.5
1 16	5 54.47	+19 53.6	1.647	2.561	10.1	18.9	1 16	5 52.10	+29 40.3	1.663	2.572	10.4	20.8
1 26	5 48.31	+19 59.7	1.719	2.561	13.9	19.1	1 26	5 45.55	+29 6.5	1.749	2.586	14.0	21.1
443730	2015 LL ₂₀		12 25.1	47°64	6°7/25.1	18	309514	2007 WD ₅₉		12 25.1	193°80	1°1/25.0	18
11 17	6 43.35	+10 20.9	1.585	2.369	17.9	20.6	11 17	6 45.15	+25 12.0	1.951	2.737	14.9	21.2
11 27	6 39.21	+9 11.4	1.514	2.375	14.6	20.4	11 27	6 40.51	+25 31.5	1.864	2.736	11.7	21.0
12 7	6 32.28	+8 11.3	1.464	2.382	11.0	20.2	12 7	6 33.16	+25 51.9	1.799	2.735	7.9	20.7
12 17	6 23.26	+7 25.0	1.437	2.389	7.8	20.0	12 17	6 23.72	+26 10.4	1.761	2.735	3.8	20.5
12 27	6 13.31	+6 55.9	1.437	2.396	6.7	20.0	12 27	6 13.23	+26 24.5	1.752	2.734	1.4	20.3
1 6	6 3.74	+6 45.4	1.463	2.403	8.8	20.1	1 6	6 2.94	+26 32.7	1.772	2.733	5.4	20.6
1 16	5 55.76	+6 52.6	1.515	2.410	12.2	20.3	1 16	5 54.07	+26 35.2	1.820	2.731	9.5	20.8
1 26	5 50.27	+7 14.8	1.589	2.418	15.6	20.6	1 26	5 47.57	+26 33.7	1.892	2.730	13.1	21.0
464500	2016 BC ₇₄		12 25.1	94°49	0°6/25.2	17	175492	2006 RX ₄₇		12 25.1	40°77	5°6/24.5	18
11 17	6 41.56	+19 51.0	2.431	3.207	12.6	21.2	11 17	6 47.26	+33 26.3	1.528	2.325	17.9	19.2
11 27	6 37.01	+20 11.7	2.349	3.215	9.9	21.0	11 27	6 43.07	+34 38.6	1.468	2.341	14.3	19.0
12 7	6 30.43	+20 36.4	2.290	3.224	6.6	20.8	12 7	6 35.30	+35 46.5	1.429	2.357	10.3	18.8
12 17	6 22.34	+21 3.6	2.259	3.232	3.1	20.6	12 17	6 24.78	+36 42.1	1.414	2.374	6.8	18.6
12 27	6 13.53	+21 31.8	2.258	3.240	0.9	20.5	12 27	6 12.99	+37 18.9	1.426	2.391	5.8	18.6
1 6	6 4.91	+21 59.4	2.288	3.249	4.4	20.7	1 6	6 1.73	+37 34.3	1.464	2.409	8.3	18.8
1 16	5 57.33	+22 25.4	2.347	3.257	7.7	21.0	1 16	5 52.58	+37 30.3	1.528	2.428	11.9	19.1
1 26	5 51.52	+22 49.6	2.432	3.265	10.7	21.2	1 26	5 46.68	+37 12.2	1.614	2.447	15.2	19.3
183102	2002 RM ₁₁₀		12 25.1	154°58	1°3/25.1	18	475198	2005 VC ₁		12 25.1	73°17	5°9/24.8	17
11 17	6 50.42	+26 45.8	1.852	2.631	15.8	20.5	11 17	6 54.87	+13 22.2	1.558	2.326	18.8	21.1
11 27	6 44.64	+26 53.2	1.771	2.639	12.5	20.3	11 27	6 47.51	+11 47.0	1.514	2.368	15.0	20.9
12 7	6 35.90	+26 59.1	1.713	2.647	8.5	20.1	12 7	6 37.33	+10 19.8	1.491	2.409	10.8	20.8
12 17	6 24.93	+27 0.6	1.680	2.653	4.1	19.8	12 17	6 25.35	+9 4.9	1.495	2.450	7.2	20.6
12 27	6 12.94	+26 55.2	1.677	2.659	1.6	19.7	12 27	6 12.94	+8 6.3	1.527	2.489	6.0	20.7
1 6	6 1.33	+26 42.7	1.704	2.664	5.7	19.9	1 6	6 1.49	+7 26.1	1.589	2.528	8.4	20.9
1 16	5 51.41	+26 24.5	1.759	2.669	9.9	20.2	1 16	5 52.12	+7 4.3	1.678	2.566	11.7	21.2
1 26	5 44.16	+26 3.8	1.839	2.673	13.6	20.4	1 26	5 45.55	+6 58.7	1.790	2.603	14.8	21.5
78799	2002 XW ₉₃		12 25.1	147°21	0°2/24.9	08 C	414556	2009 SC ₂₆₅		12 25.1	135°89	0°5/25.2	18
11 17	6 18.49	+34 2.2	45.105	45.863	0.8	22.2	11 17	6 43.15	+21 49.4	2.560	3.332	12.2	21.9
11 27	6 17.73	+34 4.2	45.014	45.866	0.6	22.2	11 27	6 38.08	+21 45.5	2.478	3.342	9.5	21.7
12 7	6 16.89	+34 5.7	44.949	45.869	0.4	22.2	12 7	6 31.05	+21 42.9	2.419	3.352	6.4	21.5
12 17	6 15.98	+34 6.9	44.913	45.871	0.3	22.1	12 17	6 22.60	+21 40.8	2.388	3.361	3.0	21.3
12 27	6 15.04	+34 7.6	44.908	45.874	0.2	22.1	12 27	6 13.52	+21 38.3	2.388	3.370	0.8	21.2
1 6	6 14.10	+34 7.9	44.933	45.876	0.3	22.2	1 6	6 4.68	+21 35.4	2.418	3.379	4.2	21.4
1 16	6 13.21	+34 7.7	44.987	45.879	0.5	22.2	1 16	5 56.91	+21 32.3	2.479	3.387	7.5	21.7
1 26	6 12.40	+34 7.1	45.070	45.881	0.7	22.2	1 26	5 50.87	+21 29.6	2.566	3.395	10.3	21.9
84902	Porrentruy		12 25.1	64°49	0°5/25.1	18	182719	2001 WP ₅₃		12 25.1	343°51	1°6/25.2	17
11 17	6 42.96	+24 10.3	2.149	2.933	13.8								

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
451581	2012 BH ₂		12 25.1	1°28	1°1/25.0	18	375145	2008 AK ₁₃₇		12 25.1	13°57	0°7/25.2	18
11 17	6 43.12	+24 20.3	1.722	2.520	16.1	21.4	11 17	6 46.37	+26 19.3	1.201	2.020	20.5	20.5
11 27	6 39.29	+24 49.6	1.640	2.519	12.7	21.1	11 27	6 42.89	+26 1.0	1.131	2.021	16.2	20.3
12 7	6 32.54	+25 21.5	1.580	2.519	8.6	20.9	12 7	6 35.46	+25 39.8	1.080	2.023	11.0	20.0
12 17	6 23.50	+25 53.0	1.545	2.519	4.0	20.6	12 17	6 24.95	+25 13.4	1.051	2.026	5.1	19.7
12 27	6 13.30	+26 20.5	1.537	2.519	1.5	20.4	12 27	6 13.02	+24 40.7	1.046	2.029	1.3	19.4
1 6	6 3.31	+26 41.9	1.558	2.520	5.9	20.7	1 6	6 1.67	+24 3.1	1.068	2.033	7.3	19.8
1 16	5 54.86	+26 56.7	1.606	2.521	10.3	21.0	1 16	5 52.67	+23 24.4	1.114	2.038	12.9	20.1
1 26	5 48.99	+27 6.1	1.677	2.523	14.1	21.2	1 26	5 47.26	+22 48.8	1.180	2.043	17.6	20.4
387479	2013 YU ₁₄		12 25.1	4°23	2°1/25.4	18	410864	2009 RT ₇₂		12 25.1	67°14	5°5/25.6	17
11 17	6 43.76	+16 31.6	1.358	2.165	19.2	20.8	11 17	6 41.27	+ 8 33.4	2.068	2.832	14.9	21.7
11 27	6 40.37	+16 50.7	1.282	2.164	15.3	20.6	11 27	6 36.89	+ 7 52.9	1.999	2.847	12.2	21.5
12 7	6 33.59	+17 21.4	1.225	2.164	10.5	20.3	12 7	6 30.39	+ 7 22.6	1.951	2.862	9.2	21.3
12 17	6 24.08	+18 2.2	1.192	2.165	5.3	20.0	12 17	6 22.34	+ 7 5.0	1.929	2.877	6.5	21.2
12 27	6 13.16	+18 50.4	1.184	2.166	2.3	19.8	12 27	6 13.64	+ 7 1.4	1.935	2.892	5.5	21.2
1 6	6 2.48	+19 41.9	1.203	2.167	6.9	20.1	1 6	6 5.26	+ 7 11.6	1.969	2.907	7.1	21.3
1 16	5 53.61	+20 33.6	1.248	2.169	12.1	20.4	1 16	5 58.08	+ 7 34.2	2.031	2.922	9.8	21.5
1 26	5 47.80	+21 23.4	1.315	2.171	16.5	20.7	1 26	5 52.81	+ 8 6.6	2.117	2.937	12.5	21.7
307378	2002 SF ₅₂		12 25.1	131°58	0°7/25.1	16	159270	2005 YC ₂₀₉		12 25.1	285°91	2°6/24.6	18
11 17	6 47.56	+24 18.9	2.638	3.399	12.1	22.8	11 17	6 44.01	+27 47.8	2.162	2.944	13.8	19.9
11 27	6 41.42	+24 41.6	2.561	3.420	9.4	22.6	11 27	6 39.67	+28 42.2	2.063	2.932	10.9	19.7
12 7	6 33.25	+25 4.9	2.509	3.439	6.3	22.5	12 7	6 32.70	+29 38.3	1.987	2.919	7.6	19.5
12 17	6 23.60	+25 26.5	2.485	3.458	2.9	22.3	12 17	6 23.61	+30 31.9	1.938	2.907	4.1	19.2
12 27	6 13.31	+25 44.5	2.493	3.476	0.9	22.1	12 27	6 13.31	+31 18.5	1.918	2.895	2.8	19.1
1 6	6 3.30	+25 57.9	2.534	3.493	4.2	22.4	1 6	6 2.97	+31 55.1	1.928	2.882	5.8	19.3
1 16	5 54.42	+26 6.7	2.604	3.509	7.4	22.6	1 16	5 53.81	+32 20.6	1.966	2.870	9.4	19.5
1 26	5 47.37	+26 11.9	2.703	3.524	10.1	22.8	1 26	5 46.84	+32 36.3	2.030	2.858	12.7	19.7
68265	2001 EK ₁₄		12 25.1	45°22	4°9/26.3	18	231219	2005 WW ₁₄₉		12 25.1	22°91	2°8/24.9	18
11 17	6 44.01	+ 9 7.9	1.447	2.233	19.2	18.0	11 17	6 46.36	+27 44.0	1.467	2.271	18.1	20.8
11 27	6 39.94	+ 9 23.2	1.387	2.251	15.5	17.8	11 27	6 42.43	+28 21.4	1.392	2.273	14.3	20.5
12 7	6 32.88	+ 9 56.0	1.346	2.270	11.2	17.6	12 7	6 34.97	+28 58.9	1.337	2.275	9.9	20.3
12 17	6 23.59	+10 46.2	1.329	2.289	7.0	17.4	12 17	6 24.72	+29 31.6	1.306	2.278	5.1	20.0
12 27	6 13.31	+11 51.5	1.338	2.309	5.0	17.4	12 27	6 13.07	+29 54.5	1.301	2.280	3.0	19.9
1 6	6 3.49	+13 7.4	1.374	2.329	7.5	17.6	1 6	6 1.76	+30 5.0	1.324	2.284	7.1	20.1
1 16	5 55.43	+14 28.5	1.437	2.350	11.4	17.8	1 16	5 52.42	+30 4.1	1.372	2.287	11.7	20.4
1 26	5 50.07	+15 50.1	1.523	2.371	15.1	18.1	1 26	5 46.25	+29 55.1	1.443	2.291	15.8	20.7
32126	2000 LF ₁₂		12 25.1	214°86	4°0/24.9	18	371774	2007 HH ₃₄		12 25.1	173°03	0°5/25.1	18
11 17	6 46.56	+15 45.4	1.903	2.678	15.6	18.1	11 17	6 42.55	+24 40.8	3.054	3.819	10.5	23.0
11 27	6 41.44	+14 47.1	1.811	2.672	12.5	17.9	11 27	6 37.41	+24 50.6	2.961	3.822	8.2	22.8
12 7	6 33.70	+13 51.7	1.741	2.667	9.0	17.6	12 7	6 30.53	+25 0.5	2.893	3.825	5.5	22.7
12 17	6 23.95	+13 1.4	1.697	2.661	5.4	17.4	12 17	6 22.39	+25 9.0	2.854	3.827	2.6	22.5
12 27	6 13.21	+12 18.7	1.683	2.654	4.2	17.3	12 27	6 13.63	+25 14.9	2.846	3.829	0.8	22.3
1 6	6 2.70	+11 45.6	1.697	2.647	6.9	17.5	1 6	6 5.03	+25 17.7	2.870	3.830	3.7	22.6
1 16	5 53.56	+11 23.5	1.740	2.640	10.7	17.7	1 16	5 57.29	+25 17.5	2.925	3.831	6.6	22.7
1 26	5 46.71	+11 12.5	1.807	2.632	14.2	17.9	1 26	5 51.03	+25 15.3	3.007	3.831	9.1	22.9
409367	2005 AS ₄₄		12 25.1	352°87	9°2/23.6	17	515871	2015 PO ₁		12 25.1	85°23	4°5/25.6	18
11 17	6 39.34	+38 31.0	1.367	2.179	18.8	19.7	11 17	6 44.88	+11 36.5	1.787	2.561	16.5	21.5
11 27	6 37.98	+40 11.0	1.292	2.167	15.7	19.5	11 27	6 40.03	+11 15.7	1.721	2.580	13.2	21.3
12 7	6 32.64	+41 45.2	1.236	2.156	12.4	19.3	12 7	6 32.64	+11 5.2	1.677	2.598	9.6	21.1
12 17	6 23.88	+43 3.2	1.203	2.148	9.8	19.1	12 17	6 23.42	+11 6.2	1.657	2.617	6.0	21.0
12 27	6 13.18	+43 55.0	1.193	2.141	9.3	19.1	12 27	6 13.41	+11 19.0	1.666	2.635	4.5	20.9
1 6	6 2.62	+44 15.4	1.207	2.137	11.4	19.2	1 6	6 3.83	+11 42.3	1.702	2.653	6.8	21.1
1 16	5 54.26	+44 5.8	1.243	2.134	14.7	19.3	1 16	5 55.72	+12 14.4	1.767	2.670	10.3	21.3
1 26	5 49.66	+43 32.9	1.299	2.133	18.1	19.6	1 26	5 49.91	+12 52.6	1.855	2.688	13.5	21.6
514795	2007 NP ₄		12 25.1	96°52	8°3/24.6	18	395192	2010 GQ ₃₂		12 25.1	209°06	0°3/25.2	18
11 17	6 58.84	+44 7.5	2.008	2.749	16.0	20.6	11 17	6 45.66	+21 29.2	2.053	2.832	14.5	22.3
11 27	6 51.73	+45 35.9	1.955	2.778	13.4	20.5	11 27	6 40.77	+21 41.3	1.960	2.828	11.4	22.1
12 7	6 40.93	+46 52.1	1.923	2.806	10.8	20.3	12 7	6 33.30	+21 56.7	1.889	2.823	7.7	21.9
12 17	6 27.32	+47 47.2	1.917	2.833	8.8	20.3	12 17	6 23.82	+22 13.7	1.844	2.818	3.6	21.6
12 27	6 12.46	+48 14.4	1.939	2.860	8.4	20.3	12 27	6 13.30	+22 30.4	1.829	2.812	0.9	21.4
1 6	5 58.25	+48 12.7	1.988	2.886	9.6	20.4	1 6	6 2.90	+22 45.3	1.844	2.806	5.2	21.7
1 16	5 46.34	+47 46.0	2.063	2.912	11.6	20.6	1 16	5 53.78	+22 58.1	1.888	2.799	9.2	21.9
1 26	5 37.85	+47 1.8	2.161	2.936	13.8	20.8	1 26	5 46.86	+23 9.4	1.957	2.792	12.8	22.1
265418	2004 TJ ₁₇₆		12 25.1	70°02	1°1/25.2	18	445996	2013 CW ₁₆		12 25.1	353°18	0°9/25.2	18
11 17	6 45.20	+19 48.1	2.096	2.873	14.3	21.0	11 17	6 43.57	+21 14.9	1.723	2.518	16.2	21.3
11 27	6 39.85	+19 48.7	2.038	2.905	11.1	20.9	11 27	6 39.51	+21 9.1	1.640	2.517	12.8	21.0
12 7	6 32.28	+19 52.8	2.003	2.936	7.5	20.7	12 7	6 32.61	+21 6.3	1.578	2.516	8.7	20.8
12 17	6 23.15	+19 59.3	1.994	2.967	3.6	20.5	12 17	6 23.53	+21 5.3	1.542	2.516	4.1	20.5
12 27	6 13.45	+20 7.1	2.015	2.997	1.3	20.4	12 27	6 13.37	+21 5.1	1.533	2.515	1.3	20.3
1 6	6 4.23	+20 15.6	2.067	3.027	4.8	20.7	1 6	6 3.48	+21 5.3	1.552	2.515	5.8	20.6
1 16	5 56.39	+20 24.4	2.147	3.057	8.3	21.0	1 16	5 55.10	+21 6.0	1.598	2.515	10.2	20.9
1 26	5 50.63	+20 33.8	2.253	3.087	11.4	21.2	1 26	5 49.22	+21 8.0	1.669	2.515	14.1	21.1
164828	1999 TL ₄₀		12 25.1	106°43	2°4/25.4	18	3407	Jimmysimms		12 25.1	2°45	1°6/25.5	18
11 17	6 47.01	+16 11.6	2.046	2.816	14.9								

EPHEMERIDES

12 25.1

12 25.2

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
489351	2006 <i>UX</i> ₇₁		12 25.1	96°08	1°4/25.1	15	493072	2014 <i>SG</i> ₂₉₉		12 25.2	301°34	2°5/25.1	18
11 17	6 46.34	+20 39.5	2.005	2.784	14.8	22.1	11 17	6 41.30	+17 39.6	2.187	2.967	13.7	21.0
11 27	6 40.94	+20 14.2	1.935	2.802	11.6	21.9	11 27	6 37.09	+17 7.6	2.094	2.961	10.9	20.8
12 7	6 33.13	+19 50.5	1.887	2.821	7.8	21.7	12 7	6 30.67	+16 38.5	2.024	2.955	7.6	20.6
12 17	6 23.61	+19 28.5	1.867	2.839	3.8	21.5	12 17	6 22.58	+16 13.2	1.980	2.949	4.1	20.4
12 27	6 13.41	+19 8.3	1.876	2.857	1.7	21.4	12 27	6 13.68	+15 52.6	1.965	2.943	2.6	20.3
1 6	6 3.65	+18 50.4	1.914	2.874	5.2	21.6	1 6	6 4.94	+15 37.1	1.980	2.937	5.4	20.5
1 16	5 55.35	+18 35.7	1.982	2.891	9.0	21.9	1 16	5 57.33	+15 27.5	2.024	2.931	8.9	20.7
1 26	5 49.26	+18 25.1	2.075	2.908	12.2	22.1	1 26	5 51.62	+15 23.8	2.092	2.926	12.1	20.9
146993	2002 <i>PZ</i> ₆₁		12 25.1	90°64	1°9/25.3	18	173700	2001 <i>QC</i> ₃₆		12 25.2	85°86	1°5/25.3	18
11 17	6 48.55	+18 1.1	1.506	2.297	18.3	20.6	11 17	6 44.99	+18 38.2	1.938	2.719	15.2	20.4
11 27	6 43.48	+18 6.2	1.442	2.316	14.4	20.4	11 27	6 40.06	+18 41.4	1.868	2.737	11.9	20.3
12 7	6 35.27	+18 18.6	1.399	2.334	9.8	20.2	12 7	6 32.66	+18 49.5	1.822	2.755	8.1	20.1
12 17	6 24.71	+18 36.9	1.380	2.352	4.8	20.0	12 17	6 23.46	+19 1.7	1.801	2.773	3.9	19.9
12 27	6 13.15	+18 59.1	1.389	2.370	2.1	19.8	12 27	6 13.49	+19 16.6	1.809	2.791	1.6	19.7
1 6	6 2.12	+19 23.2	1.426	2.387	6.4	20.1	1 6	6 3.91	+19 33.0	1.847	2.808	5.3	20.0
1 16	5 52.98	+19 48.1	1.490	2.405	10.9	20.5	1 16	5 55.74	+19 50.3	1.913	2.825	9.1	20.3
1 26	5 46.71	+20 13.3	1.577	2.421	14.9	20.7	1 26	5 49.80	+20 8.2	2.005	2.842	12.4	20.5
139219	2001 <i>HF</i>		12 25.1	191°39	5°6/24.7	18	318170	2004 <i>RO</i> ₈		12 25.2	57°39	3°7/25.2	18
11 17	6 50.58	+38 39.7	2.284	3.040	13.9	20.4	11 17	6 42.17	+14 41.4	1.975	2.755	15.0	19.7
11 27	6 44.82	+39 30.5	2.196	3.039	11.4	20.2	11 27	6 37.81	+14 0.9	1.899	2.763	11.9	19.5
12 7	6 36.14	+40 14.3	2.130	3.037	8.7	20.0	12 7	6 31.13	+13 26.0	1.846	2.772	8.5	19.3
12 17	6 25.16	+40 45.3	2.091	3.035	6.3	19.9	12 17	6 22.77	+12 58.5	1.818	2.782	5.1	19.1
12 27	6 13.02	+40 58.5	2.081	3.032	5.7	19.9	12 27	6 13.66	+12 39.6	1.819	2.791	3.8	19.1
1 6	6 1.09	+40 52.5	2.100	3.029	7.3	20.0	1 6	6 4.86	+12 30.0	1.849	2.801	6.2	19.3
1 16	5 50.70	+40 28.9	2.147	3.025	10.0	20.1	1 16	5 57.36	+12 29.4	1.906	2.810	9.6	19.5
1 26	5 42.87	+39 52.5	2.218	3.021	12.6	20.3	1 26	5 51.93	+12 37.1	1.988	2.820	12.8	19.7
464565	2016 <i>CZ</i> ₅₁		12 25.2	214°63	1°0/25.0	18	104699	2000 <i>GC</i> ₁₆₄		12 25.2	136°46	1°8/25.5	18
11 17	6 41.78	+25 51.7	2.788	3.560	11.3	21.8	11 17	6 44.45	+16 14.9	2.383	3.149	13.1	20.1
11 27	6 37.12	+26 13.2	2.691	3.555	8.8	21.6	11 27	6 39.25	+16 28.4	2.302	3.161	10.3	20.0
12 7	6 30.52	+26 35.0	2.618	3.550	6.0	21.4	12 7	6 31.96	+16 48.0	2.244	3.172	7.1	19.8
12 17	6 22.47	+26 55.0	2.573	3.545	2.9	21.2	12 17	6 23.13	+17 12.9	2.214	3.183	3.7	19.6
12 27	6 13.66	+27 11.3	2.558	3.540	1.2	21.1	12 27	6 13.57	+17 41.7	2.214	3.194	1.9	19.5
1 6	6 4.95	+27 22.9	2.575	3.534	4.1	21.3	1 6	6 4.23	+18 12.9	2.245	3.204	4.7	19.7
1 16	5 57.16	+27 29.7	2.622	3.528	7.2	21.5	1 16	5 55.99	+18 45.2	2.306	3.213	8.0	19.9
1 26	5 50.98	+27 32.6	2.695	3.522	9.9	21.6	1 26	5 49.56	+19 17.6	2.394	3.222	11.0	20.1
517867	2015 <i>RS</i> ₂₅₃		12 25.2	170°91	2°1/25.2	18	200497	2000 <i>YJ</i> ₉₁		12 25.2	248°21	1°9/25.3	18
11 17	6 45.43	+17 40.6	2.193	2.964	14.0	22.6	11 17	6 49.13	+30 22.8	1.823	2.606	15.9	19.9
11 27	6 40.22	+17 23.6	2.106	2.967	11.0	22.4	11 27	6 43.87	+30 2.6	1.732	2.601	12.6	19.7
12 7	6 32.71	+17 10.5	2.041	2.970	7.6	22.2	12 7	6 35.55	+29 35.7	1.662	2.596	8.7	19.5
12 17	6 23.48	+17 1.4	2.004	2.973	4.0	21.9	12 17	6 24.90	+28 59.5	1.619	2.590	4.4	19.2
12 27	6 13.44	+16 56.3	1.996	2.975	2.2	21.8	12 27	6 13.17	+28 12.9	1.604	2.585	2.1	19.0
1 6	6 3.63	+16 54.9	2.019	2.976	5.2	22.0	1 6	6 1.82	+27 17.5	1.619	2.579	5.9	19.3
1 16	5 55.03	+16 57.4	2.070	2.977	8.8	22.2	1 16	5 52.19	+26 17.2	1.662	2.574	10.2	19.5
1 26	5 48.44	+17 3.6	2.148	2.977	12.1	22.5	1 26	5 45.31	+25 16.8	1.729	2.568	14.1	19.7
320639	2008 <i>CZ</i> ₈₇		12 25.2	31°12	3°3/24.9	18	368554	2003 <i>YJ</i> ₁₄₃		12 25.2	310°14	4°6/25.2	18
11 17	6 45.67	+30 48.6	1.889	2.676	15.3	20.6	11 17	6 45.95	+37 44.0	2.322	3.088	13.4	20.4
11 27	6 41.19	+31 23.1	1.808	2.678	12.2	20.4	11 27	6 41.00	+38 3.5	2.232	3.083	10.9	20.2
12 7	6 33.78	+31 54.9	1.748	2.679	8.5	20.1	12 7	6 33.43	+38 15.1	2.164	3.079	8.1	20.0
12 17	6 24.10	+32 19.4	1.713	2.680	4.9	19.9	12 17	6 23.88	+38 14.5	2.122	3.075	5.6	19.8
12 27	6 13.31	+32 32.8	1.707	2.682	3.5	19.8	12 27	6 13.40	+37 58.7	2.109	3.070	4.7	19.8
1 6	6 2.78	+32 33.5	1.730	2.684	6.3	20.0	1 6	6 3.22	+37 27.6	2.125	3.066	6.4	19.9
1 16	5 53.83	+32 22.8	1.779	2.686	10.0	20.2	1 16	5 54.47	+36 43.5	2.169	3.062	9.2	20.0
1 26	5 47.47	+32 3.8	1.853	2.687	13.5	20.5	1 26	5 48.03	+35 50.7	2.239	3.058	12.0	20.2
265947	2006 <i>BL</i> ₂₂₁		12 25.2	220°83	3°1/25.1	18	66308	1999 <i>JX</i> ₄₀		12 25.2	108°44	3°7/25.4	18
11 17	6 45.40	+33 9.1	2.432	3.201	12.8	21.4	11 17	6 47.47	+15 36.6	1.472	2.263	18.7	18.7
11 27	6 40.32	+33 24.3	2.338	3.197	10.2	21.2	11 27	6 42.78	+15 12.3	1.401	2.273	14.9	18.4
12 7	6 32.85	+33 34.5	2.268	3.193	7.2	21.0	12 7	6 34.91	+14 56.0	1.351	2.283	10.4	18.2
12 17	6 23.58	+33 36.4	2.225	3.188	4.3	20.8	12 17	6 24.62	+14 48.6	1.324	2.292	5.8	18.0
12 27	6 13.44	+33 27.8	2.211	3.184	3.2	20.8	12 27	6 13.24	+14 50.4	1.325	2.301	3.8	17.9
1 6	6 3.51	+33 8.1	2.228	3.179	5.4	20.9	1 6	6 2.30	+15 0.7	1.353	2.310	7.2	18.1
1 16	5 54.84	+32 39.0	2.273	3.174	8.5	21.1	1 16	5 53.19	+15 18.4	1.407	2.319	11.7	18.4
1 26	5 48.25	+32 3.6	2.344	3.168	11.3	21.3	1 26	5 46.95	+15 42.2	1.484	2.327	15.7	18.6
472461	2015 <i>BN</i> ₄₁₄		12 25.2	159°60	0°3/25.1	18	477209	2009 <i>JN</i>		12 25.2	171°89	3°1/25.2	16
11 17	6 48.12	+22 4.3	1.398	2.200	19.0	21.6	11 17	6 49.07	+16 23.3	1.875	2.647	16.0	22.3
11 27	6 43.86	+22 29.0	1.320	2.201	15.0	21.3	11 27	6 43.42	+15 53.8	1.791	2.652	12.7	22.1
12 7	6 36.00	+22 59.2	1.263	2.203	10.2	21.1	12 7	6 35.06	+15 29.3	1.728	2.655	8.9	21.9
12 17	6 25.27	+23 31.7	1.229	2.204	4.7	20.8	12 17	6 24.64	+15 10.3	1.691	2.658	5.0	21.7
12 27	6 13.04	+24 2.5	1.222	2.204	1.1	20.5	12 27	6 13.24	+14 57.5	1.684	2.660	3.2	21.6
1 6	6 1.09	+24 28.4	1.242	2.205	6.8	20.9	1 6	6 2.14	+14 51.3	1.706	2.661	6.3	21.8
1 16	5 51.11	+24 48.8	1.287	2.206	12.0	21.2	1 16	5 52.50	+14 51.8	1.757	2.661	10.3	22.0
1 26	5 44.37	+25 4.7	1.356	2.206	16.5	21.5	1 26	5 45.27	+14 58.6	1.832	2.660	13.8	22.2
489163	2006 <i>ET</i> ₆₇		12 25.2	99°24	2°1/25.4	18	20680	1999 <i>VX</i> ₉		12 25.2	320°07		

EPHEMERIDES

12 25.2

12 25.2

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
402577	2006 <i>RQ</i> ₅₇		12 25.2 104°49'	2.4°/25.0	18		171921	2001 <i>SF</i> ₁₂₇		12 25.2 91°32'	0.6°/25.2	18	
11 17	6 47.63	+29 14.6	2.029	2.808	14.7	21.6	11 17	6 40.94	+21 18.2	2.487	3.264	12.3	20.4
11 27	6 42.26	+29 38.3	1.956	2.823	11.5	21.4	11 27	6 36.55	+21 15.3	2.400	3.267	9.6	20.2
12 7	6 34.23	+29 59.5	1.906	2.837	7.9	21.2	12 7	6 30.18	+21 14.2	2.337	3.271	6.5	20.0
12 17	6 24.23	+30 14.5	1.883	2.852	4.2	21.0	12 17	6 22.35	+21 14.2	2.301	3.274	3.1	19.8
12 27	6 13.36	+30 20.6	1.888	2.866	2.5	20.9	12 27	6 13.84	+21 14.7	2.295	3.278	0.9	19.6
1 6	6 2.89	+30 17.1	1.924	2.880	5.5	21.2	1 6	6 5.52	+21 15.2	2.320	3.281	4.3	19.9
1 16	5 53.97	+30 5.1	1.987	2.894	9.1	21.4	1 16	5 58.23	+21 15.9	2.373	3.285	7.6	20.1
1 26	5 47.45	+29 47.7	2.076	2.907	12.3	21.6	1 26	5 52.66	+21 17.0	2.454	3.288	10.6	20.3
329685	2003 <i>UV</i> ₁₆₆		12 25.2 358°70'	3°8'/25.2	17		54405	2000 <i>LL</i> ₄		12 25.2 167°96'	3°9'/25.6	18	
11 17	6 40.52	+14 1.0	2.123	2.900	14.2	20.5	11 17	6 42.64	+11 3.5	2.341	3.100	13.5	19.5
11 27	6 36.47	+13 20.9	2.037	2.899	11.3	20.3	11 27	6 37.90	+10 47.5	2.254	3.103	10.9	19.3
12 7	6 30.25	+12 46.2	1.974	2.899	8.2	20.1	12 7	6 31.11	+10 39.9	2.189	3.106	8.0	19.1
12 17	6 22.40	+12 18.8	1.937	2.898	5.1	19.9	12 17	6 22.79	+10 41.6	2.152	3.108	5.1	19.0
12 27	6 13.78	+12 0.0	1.928	2.898	3.9	19.8	12 27	6 13.74	+10 53.0	2.143	3.110	4.0	18.9
1 6	6 5.37	+11 50.5	1.948	2.899	6.1	19.9	1 6	6 4.85	+11 13.4	2.165	3.112	5.8	19.0
1 16	5 58.09	+11 50.2	1.996	2.899	9.3	20.1	1 16	5 57.00	+11 41.6	2.215	3.113	8.8	19.2
1 26	5 52.71	+11 58.3	2.069	2.900	12.4	20.3	1 26	5 50.91	+12 15.9	2.291	3.114	11.6	19.4
4121	Carlin		12 25.2 100°27'	9°7'/23.8	18		267149	2000 <i>FJ</i> ₇₃		12 25.2 243°45'	3°9'/25.4	18	
11 17	7 1.67	+43 55.9	1.798	2.544	17.5	16.9	11 17	6 40.02	+11 37.1	2.404	3.168	13.0	21.1
11 27	6 54.81	+46 1.9	1.744	2.569	14.7	16.8	11 27	6 35.85	+11 12.1	2.313	3.166	10.5	20.9
12 7	6 43.61	+47 56.4	1.713	2.593	12.0	16.7	12 7	6 29.74	+10 54.4	2.246	3.164	7.7	20.7
12 17	6 28.86	+49 27.4	1.707	2.617	10.1	16.6	12 17	6 22.17	+10 45.1	2.205	3.161	5.0	20.5
12 27	6 12.29	+50 25.4	1.727	2.641	9.8	16.6	12 27	6 13.88	+10 45.2	2.192	3.159	3.9	20.5
1 6	5 56.19	+50 47.2	1.775	2.663	11.1	16.8	1 6	6 5.73	+10 54.5	2.210	3.157	5.8	20.6
1 16	5 42.67	+50 37.1	1.847	2.685	13.3	17.0	1 16	5 58.55	+11 12.1	2.256	3.154	8.6	20.8
1 26	5 33.16	+50 3.9	1.942	2.706	15.5	17.2	1 26	5 53.03	+11 36.8	2.327	3.152	11.4	20.9
71458	2000 <i>BU</i>		12 25.2 330°86'	3°3'/25.5	18		369224	2008 <i>UP</i> ₁₅₁		12 25.2 57°31'	3°0'/25.2	17	
11 17	6 39.59	+14 19.9	1.925	2.711	15.1	19.2	11 17	6 41.48	+15 58.7	2.191	2.967	13.8	21.1
11 27	6 36.14	+14 7.3	1.833	2.701	12.1	19.0	11 27	6 37.02	+15 23.1	2.118	2.982	10.9	20.9
12 7	6 30.27	+14 2.4	1.763	2.692	8.6	18.8	12 7	6 30.48	+14 52.0	2.069	2.996	7.6	20.7
12 17	6 22.50	+14 6.2	1.717	2.683	5.0	18.5	12 17	6 22.46	+14 26.5	2.046	3.011	4.4	20.5
12 27	6 13.75	+14 18.7	1.700	2.675	3.4	18.4	12 27	6 13.83	+14 7.6	2.052	3.026	3.1	20.5
1 6	6 5.10	+14 39.2	1.710	2.667	6.1	18.6	1 6	6 5.52	+13 55.7	2.088	3.042	5.4	20.7
1 16	5 57.63	+15 6.4	1.748	2.659	9.9	18.8	1 16	5 58.40	+13 50.9	2.152	3.057	8.6	20.9
1 26	5 52.24	+15 38.6	1.810	2.652	13.4	19.0	1 26	5 53.15	+13 52.7	2.241	3.072	11.5	21.1
356533	2011 <i>SP</i> ₁₂₅		12 25.2 113°10'	0°4'/25.2	18		458536	2011 <i>DB</i> ₂₇		12 25.2 289°61'	3°1'/25.5	18	
11 17	6 45.50	+21 36.9	1.887	2.672	15.4	21.5	11 17	6 40.44	+13 50.0	2.211	2.985	13.8	21.7
11 27	6 40.72	+21 44.9	1.808	2.680	12.1	21.3	11 27	6 36.49	+13 41.2	2.113	2.974	11.0	21.5
12 7	6 33.29	+21 56.1	1.752	2.688	8.1	21.0	12 7	6 30.35	+13 39.7	2.037	2.963	7.9	21.3
12 17	6 23.85	+22 8.5	1.722	2.696	3.8	20.8	12 17	6 22.52	+13 46.1	1.987	2.952	4.6	21.0
12 27	6 13.48	+22 20.6	1.721	2.703	0.9	20.6	12 27	6 13.79	+14 0.5	1.967	2.941	3.2	20.9
1 6	6 3.41	+22 31.0	1.749	2.711	5.3	20.9	1 6	6 5.13	+14 22.1	1.975	2.930	5.6	21.1
1 16	5 54.79	+22 39.8	1.805	2.718	9.5	21.2	1 16	5 57.48	+14 49.6	2.012	2.919	9.0	21.3
1 26	5 48.53	+22 47.5	1.886	2.725	13.0	21.4	1 26	5 51.66	+15 21.8	2.074	2.909	12.2	21.4
473428	2015 <i>VR</i> ₁₄₁		12 25.2 19°17'	0°9'/25.1	18		25581	1999 <i>XD</i> ₂₂₁		12 25.2 231°56'	2°1'/25.1	18	
11 17	6 42.20	+23 26.4	1.571	2.376	17.1	20.7	11 17	6 44.95	+19 38.7	2.055	2.834	14.5	17.8
11 27	6 38.78	+23 58.4	1.499	2.382	13.4	20.4	11 27	6 40.11	+19 2.8	1.961	2.828	11.5	17.6
12 7	6 32.31	+24 34.2	1.448	2.389	9.0	20.2	12 7	6 32.82	+18 28.1	1.889	2.821	7.9	17.4
12 17	6 23.50	+25 10.4	1.422	2.396	4.2	19.9	12 17	6 23.64	+17 55.2	1.844	2.814	4.1	17.1
12 27	6 13.55	+25 43.4	1.422	2.405	1.3	19.8	12 27	6 13.55	+17 24.8	1.828	2.807	2.2	17.0
1 6	6 3.93	+26 10.5	1.450	2.414	6.0	20.1	1 6	6 3.65	+16 58.2	1.842	2.800	5.6	17.2
1 16	5 55.98	+26 30.9	1.505	2.424	10.6	20.4	1 16	5 55.02	+16 36.5	1.884	2.792	9.4	17.4
1 26	5 50.75	+26 45.9	1.583	2.434	14.5	20.6	1 26	5 48.53	+16 20.7	1.952	2.785	12.9	17.6
284285	2006 <i>KW</i> ₁₁		12 25.2 79°43'	1°1'/25.4	18		38693	2000 <i>QB</i> ₃₆		12 25.2 60°48'	2°5'/25.3	18	
11 17	6 46.91	+16 55.7	1.718	2.501	16.7	20.2	11 17	6 48.96	+18 29.1	1.175	1.986	21.3	18.7
11 27	6 42.01	+17 41.7	1.647	2.517	13.2	20.0	11 27	6 44.43	+18 14.5	1.124	2.009	16.8	18.5
12 7	6 34.27	+18 37.5	1.598	2.532	8.9	19.7	12 7	6 36.18	+18 7.5	1.092	2.031	11.4	18.2
12 17	6 24.34	+19 40.3	1.575	2.548	4.3	19.5	12 17	6 25.23	+18 7.3	1.082	2.054	5.7	18.0
12 27	6 13.37	+20 45.9	1.581	2.563	1.3	19.3	12 27	6 13.23	+18 12.9	1.097	2.078	2.7	17.9
1 6	6 2.72	+21 50.1	1.616	2.578	5.7	19.7	1 6	6 2.06	+18 23.0	1.138	2.101	7.4	18.2
1 16	5 53.63	+22 49.9	1.680	2.594	10.0	19.9	1 16	5 53.28	+18 36.8	1.204	2.124	12.5	18.6
1 26	5 47.10	+23 43.9	1.768	2.609	13.7	20.2	1 26	5 47.89	+18 54.0	1.291	2.148	16.8	18.9
515713	2014 <i>SM</i> ₂₂₃		12 25.2 142°79'	1°9'/24.9	18		307413	2002 <i>TT</i> ₁₉₁		12 25.2 60°97'	8°2'/24.5	18	
11 17	6 46.07	+28 45.3	2.810	3.573	11.4	22.4	11 17	6 42.72	+ 2 35.4	2.232	2.967	14.8	19.7
11 27	6 40.34	+29 13.4	2.728	3.586	8.9	22.3	11 27	6 37.81	+ 0 52.5	2.168	2.984	12.5	19.6
12 7	6 32.62	+29 39.7	2.671	3.599	6.1	22.1	12 7	6 30.93	- 0 39.0	2.127	3.002	10.3	19.5
12 17	6 23.44	+30 1.7	2.643	3.611	3.2	21.9	12 17	6 22.65	- 1 54.2	2.112	3.019	8.6	19.4
12 27	6 13.59	+30 17.0	2.645	3.623	2.0	21.8	12 27	6 13.81	- 2 48.9	2.124	3.037	8.2	19.4
1 6	6 3.96	+30 24.9	2.679	3.634	4.3	22.0	1 6	6 5.30	- 3 21.5	2.164	3.055	9.3	19.5
1 16	5 55.38	+30 25.7	2.744	3.644	7.2	22.2	1 16	5 57.93	- 3 32.6	2.230	3.073	11.1	19.7
1 26	5 48.55	+30 21.0	2.835	3.654	9.8	22.4	1 26	5 52.36	- 3 24.8	2.319	3.091	13.1	19.8
395908	2013 <i>AY</i> ₇₉		12 25.2 186°47'	0°1'/25.2	18		405426	2004 <i>SL</i> ₂		12 25.2 108°68'	4°5'/24.8		

EPHEMERIDES

12 25.2

12 25.2

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
42034	2000 YD ₉₆		12 25.2 170°27'	1°0'/25.3 18			480140	2015 FX ₁₆₆		12 25.2 241°93'	0°1'/25.2 18		
11 17	6 42.35	+20 1.7	2.294	3.072	13.2	19.7	11 17	6 47.61	+22 6.0	1.593	2.386	17.4	22.0
11 27	6 37.84	+20 0.5	2.206	3.073	10.4	19.5	11 27	6 43.21	+22 18.0	1.501	2.377	13.8	21.8
12 7	6 31.16	+20 2.5	2.140	3.074	7.0	19.3	12 7	6 35.51	+22 34.0	1.430	2.368	9.4	21.5
12 17	6 22.85	+20 6.7	2.102	3.075	3.4	19.1	12 17	6 25.12	+22 51.8	1.384	2.358	4.4	21.2
12 27	6 13.76	+20 12.5	2.093	3.075	1.2	18.9	12 27	6 13.25	+23 8.5	1.365	2.348	1.0	20.9
1 6	6 4.84	+20 19.1	2.115	3.076	4.7	19.2	1 6	6 1.47	+23 22.4	1.374	2.337	6.4	21.2
1 16	5 57.03	+20 26.4	2.165	3.076	8.2	19.4	1 16	5 51.34	+23 32.9	1.411	2.327	11.4	21.5
1 26	5 51.09	+20 34.6	2.241	3.076	11.4	19.6	1 26	5 44.10	+23 41.4	1.470	2.315	15.7	21.7
66192	1998 YW ₁₀		12 25.2 235°02'	1°2'/25.2 18			356162	2009 HU ₃₆		12 25.2 228°09'	2°5'/25.3 18		
11 17	6 49.24	+26 9.2	1.484	2.282	18.3	19.0	11 17	6 43.75	+16 19.0	2.288	3.058	13.5	21.7
11 27	6 44.73	+26 13.6	1.398	2.276	14.5	18.7	11 27	6 38.99	+16 3.4	2.188	3.048	10.7	21.5
12 7	6 36.62	+26 17.2	1.332	2.270	9.9	18.4	12 7	6 32.00	+15 52.6	2.110	3.037	7.5	21.3
12 17	6 25.63	+26 16.8	1.290	2.264	4.7	18.1	12 17	6 23.30	+15 46.8	2.059	3.027	4.1	21.0
12 27	6 13.12	+26 9.5	1.275	2.257	1.6	17.9	12 27	6 13.68	+15 46.1	2.038	3.015	2.6	20.9
1 6	6 0.87	+25 54.6	1.287	2.250	6.7	18.2	1 6	6 4.15	+15 50.4	2.047	3.003	5.3	21.1
1 16	5 50.56	+25 33.9	1.326	2.243	11.9	18.5	1 16	5 55.67	+15 59.3	2.085	2.991	8.8	21.3
1 26	5 43.45	+25 11.1	1.388	2.235	16.4	18.7	1 26	5 49.05	+16 12.4	2.149	2.978	12.1	21.5
113035	2002 RN ₄₈		12 25.2 50°64'	1°0'/25.3 17			252045	2000 RM ₁₅		12 25.2 142°72'	2°1'/25.3 18		
11 17	6 41.37	+19 23.6	2.164	2.946	13.7	19.4	11 17	6 43.84	+16 59.6	2.544	3.308	12.4	20.5
11 27	6 37.15	+19 33.0	2.086	2.955	10.8	19.2	11 27	6 38.61	+16 40.2	2.461	3.319	9.8	20.3
12 7	6 30.72	+19 46.7	2.030	2.965	7.3	19.0	12 7	6 31.47	+16 24.4	2.403	3.329	6.8	20.1
12 17	6 22.65	+20 3.7	2.001	2.974	3.5	18.8	12 17	6 22.94	+16 12.6	2.372	3.339	3.7	19.9
12 27	6 13.82	+20 22.6	2.002	2.984	1.2	18.7	12 27	6 13.80	+16 4.7	2.372	3.349	2.2	19.9
1 6	6 5.22	+20 42.2	2.032	2.993	4.8	18.9	1 6	6 4.90	+16 0.9	2.402	3.358	4.7	20.0
1 16	5 57.80	+21 1.7	2.090	3.003	8.4	19.2	1 16	5 57.05	+16 1.2	2.463	3.366	7.7	20.2
1 26	5 52.33	+21 20.9	2.174	3.013	11.5	19.4	1 26	5 50.89	+16 5.3	2.550	3.374	10.5	20.4
79960	1999 CD ₁₁₅		12 25.2 16°07'	3°4'/25.2 18			101436	1998 VF ₃₆		12 25.2 43°19'	0°0'/25.2 18		
11 17	6 42.17	+16 29.1	1.670	2.465	16.7	19.3	11 17	6 47.39	+23 38.0	1.157	1.976	21.1	19.1
11 27	6 38.38	+15 54.5	1.593	2.467	13.3	19.0	11 27	6 43.38	+23 32.9	1.108	1.998	16.5	18.9
12 7	6 31.85	+15 25.3	1.537	2.470	9.3	18.8	12 7	6 35.56	+23 29.4	1.077	2.021	11.0	18.7
12 17	6 23.25	+15 2.9	1.505	2.473	5.3	18.6	12 17	6 24.98	+23 25.4	1.069	2.044	5.0	18.4
12 27	6 13.68	+14 48.4	1.500	2.476	3.5	18.5	12 27	6 13.37	+23 19.1	1.086	2.069	1.1	18.2
1 6	6 4.43	+14 42.2	1.523	2.480	6.6	18.7	1 6	6 2.65	+23 10.2	1.128	2.094	7.0	18.7
1 16	5 56.67	+14 44.2	1.572	2.485	10.7	18.9	1 16	5 54.39	+23 0.3	1.195	2.119	12.2	19.1
1 26	5 51.34	+14 53.6	1.645	2.490	14.4	19.2	1 26	5 49.58	+22 51.5	1.284	2.145	16.6	19.4
394100	2006 BS ₁₁₁		12 25.2 238°33'	3°0'/25.1 18			511026	2013 QZ ₅₆		12 25.2 85°67'	2°7'/24.9 18		
11 17	6 48.58	+30 51.3	1.907	2.687	15.4	22.1	11 17	6 51.40	+27 13.1	1.358	2.158	19.5	21.5
11 27	6 43.59	+31 11.8	1.811	2.678	12.3	21.9	11 27	6 46.44	+27 52.1	1.296	2.175	15.3	21.3
12 7	6 35.53	+31 28.8	1.737	2.668	8.6	21.6	12 7	6 37.70	+28 31.2	1.254	2.191	10.5	21.1
12 17	6 25.04	+31 38.0	1.689	2.657	4.8	21.4	12 17	6 26.05	+29 4.8	1.235	2.208	5.3	20.8
12 27	6 13.26	+31 35.8	1.670	2.646	3.2	21.2	12 27	6 13.11	+29 27.4	1.244	2.224	2.9	20.7
1 6	6 1.65	+31 21.2	1.679	2.635	6.3	21.4	1 6	6 0.81	+29 36.9	1.280	2.240	7.2	21.0
1 16	5 51.60	+30 55.8	1.717	2.623	10.3	21.6	1 16	5 50.82	+29 34.9	1.341	2.255	12.0	21.3
1 26	5 44.22	+30 23.6	1.779	2.611	14.0	21.8	1 26	5 44.30	+29 25.3	1.425	2.271	16.1	21.6
57578	2001 TC ₆₇		12 25.2 355°02'	2°4'/25.3 18			486379	2013 ED ₁₆		12 25.2 323°16'	3°4'/24.9 17		
11 17	6 42.00	+17 26.4	1.815	2.606	15.7	18.7	11 17	6 43.67	+29 31.7	1.544	2.349	17.3	21.4
11 27	6 38.13	+17 14.0	1.732	2.604	12.5	18.5	11 27	6 40.50	+30 6.2	1.454	2.335	13.9	21.1
12 7	6 31.65	+17 7.1	1.669	2.603	8.6	18.3	12 7	6 33.90	+30 39.6	1.384	2.321	9.7	20.9
12 17	6 23.17	+17 5.9	1.632	2.602	4.5	18.0	12 17	6 24.45	+31 6.9	1.337	2.308	5.4	20.6
12 27	6 13.69	+17 10.1	1.622	2.602	2.5	17.9	12 27	6 13.43	+31 23.3	1.317	2.295	3.6	20.4
1 6	6 4.44	+17 19.2	1.641	2.602	5.9	18.1	1 6	6 2.50	+31 26.2	1.324	2.282	7.2	20.6
1 16	5 56.55	+17 32.6	1.688	2.602	10.0	18.4	1 16	5 53.31	+31 16.3	1.356	2.271	11.8	20.9
1 26	5 50.94	+17 49.5	1.758	2.602	13.6	18.6	1 26	5 47.19	+30 57.5	1.411	2.260	16.0	21.1
201212	2002 QT ₁₃		12 25.2 300°45'	0°3'/25.2 18			460755	2014 VU ₂₈		12 25.2 85°77'	3°2'/25.1 18		
11 17	6 42.18	+24 49.4	2.176	2.961	13.6	19.8	11 17	6 43.14	+15 0.3	2.413	3.178	13.0	21.0
11 27	6 38.01	+24 42.7	2.076	2.948	10.7	19.6	11 27	6 38.04	+14 15.5	2.343	3.198	10.3	21.0
12 7	6 31.46	+24 35.4	2.000	2.936	7.3	19.4	12 7	6 31.04	+13 35.0	2.296	3.219	7.3	20.9
12 17	6 23.06	+24 26.1	1.950	2.924	3.4	19.1	12 17	6 22.72	+13 0.2	2.277	3.239	4.4	20.7
12 27	6 13.72	+24 13.8	1.929	2.912	0.8	18.9	12 27	6 13.88	+12 32.5	2.288	3.259	3.3	20.7
1 6	6 4.50	+23 58.5	1.938	2.900	4.9	19.2	1 6	6 5.39	+12 12.5	2.329	3.278	5.3	20.9
1 16	5 56.46	+23 41.3	1.975	2.888	8.8	19.4	1 16	5 58.02	+12 0.6	2.399	3.298	8.2	21.1
1 26	5 50.46	+23 23.6	2.037	2.877	12.2	19.6	1 26	5 52.39	+11 56.2	2.496	3.317	10.8	21.3
442511	2011 WF ₆₁		12 25.2 22°80'	0°1'/25.2 18			351071	2003 UY ₈		12 25.2 46°28'	14°9'/27.9 18		
11 17	6 43.79	+22 35.5	1.750	2.544	16.0	21.2	11 17	7 6.08	+52 23.5	1.073	1.842	25.5	20.1
11 27	6 39.73	+22 50.4	1.669	2.546	12.6	21.0	11 27	7 1.10	+53 23.5	1.020	1.850	22.4	20.0
12 7	6 32.83	+23 8.5	1.610	2.548	8.5	20.8	12 7	6 49.08	+53 55.9	0.980	1.858	19.0	19.8
12 17	6 23.74	+23 27.5	1.576	2.551	3.9	20.5	12 17	6 31.53	+53 43.5	0.958	1.867	16.2	19.6
12 27	6 13.57	+23 45.0	1.570	2.553	0.9	20.3	12 27	6 11.99	+52 34.0	0.956	1.877	14.9	19.6
1 6	6 3.66	+23 59.5	1.593	2.556	5.6	20.6	1 6	5 54.61	+50 30.4	0.976	1.886	15.8	19.7
1 16	5 55.26	+24 10.7	1.643	2.559	10.0	20.9	1 16	5 42.35	+47 48.9	1.018	1.896	18.3	19.9
1 26	5 49.36	+24 19.4	1.717	2.563	13.8	21.1	1 26	5 36.33	+44 51.1	1.079	1.907	21.4	20.1
434060	2001 UB ₂₂₄		12 25.2 96°60'	0°4'/25.1 18			216795	2006 SA ₅₀		12 25.2 39°36'	0°9'/25.2 18		
11 17	6 49.47	+23 29.8	1.692										

EPHEMERIDES

12 25.2

12 25.2

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
493313	2014 <i>UL</i> ₁₉₀		12 25.2	3°59	1.4/25.4	17	414301	2008 <i>RS</i> ₁₈		12 25.2	120°73	4.4/25.5	17
11 17	6 41.11	+17 23.0	2.145	2.926	13.9	21.0	11 17	6 40.57	+10 9.1	2.428	3.187	13.1	21.8
11 27	6 37.08	+17 42.9	2.057	2.926	11.0	20.8	11 27	6 36.20	+9 36.6	2.345	3.193	10.6	21.6
12 7	6 30.79	+18 9.6	1.993	2.926	7.5	20.6	12 7	6 29.95	+9 12.0	2.285	3.198	7.9	21.5
12 17	6 22.76	+18 41.8	1.954	2.926	3.7	20.3	12 17	6 22.30	+8 56.7	2.252	3.203	5.4	21.3
12 27	6 13.85	+19 17.9	1.945	2.927	1.5	20.2	12 27	6 14.01	+8 52.0	2.247	3.208	4.4	21.3
1 6	6 5.07	+19 55.9	1.966	2.927	4.9	20.4	1 6	6 5.91	+8 57.9	2.272	3.213	6.0	21.4
1 16	5 57.41	+20 33.9	2.015	2.928	8.6	20.6	1 16	5 58.80	+9 13.5	2.325	3.218	8.6	21.6
1 26	5 51.68	+21 11.0	2.090	2.930	11.9	20.9	1 26	5 53.32	+9 37.2	2.404	3.223	11.3	21.7
414734	2010 <i>AO</i> ₂₃		12 25.2	4°93	2.1/25.3	17	290334	2005 <i>SP</i> ₂₃₁		12 25.2	12°85	1.2/25.1	17
11 17	6 42.60	+30 16.0	1.724	2.523	16.1	20.4	11 17	6 43.61	+25 37.9	1.916	2.706	15.0	21.1
11 27	6 38.91	+30 3.5	1.646	2.523	12.7	20.1	11 27	6 39.43	+25 54.3	1.833	2.707	11.8	20.9
12 7	6 32.29	+29 45.2	1.588	2.525	8.7	19.9	12 7	6 32.56	+26 11.1	1.771	2.708	8.0	20.7
12 17	6 23.49	+29 18.8	1.555	2.527	4.5	19.7	12 17	6 23.64	+26 25.6	1.736	2.709	3.8	20.4
12 27	6 13.71	+28 43.2	1.550	2.530	2.3	19.5	12 27	6 13.71	+26 35.4	1.729	2.711	1.4	20.2
1 6	6 4.36	+27 59.6	1.572	2.534	5.9	19.8	1 6	6 4.02	+26 39.5	1.751	2.712	5.4	20.5
1 16	5 56.68	+27 11.2	1.622	2.539	10.0	20.0	1 16	5 55.74	+26 38.1	1.800	2.714	9.4	20.8
1 26	5 51.62	+26 22.0	1.695	2.545	13.8	20.3	1 26	5 49.82	+26 33.1	1.875	2.716	13.0	21.0
29127	1985 <i>FF</i> ₂		12 25.2	326°36	2.6/25.2	18	71289	2000 <i>AZ</i> ₅₃		12 25.2	60°69	2.2/25.2	17
11 17	6 44.14	+30 6.0	1.675	2.473	16.5	17.9	11 17	6 44.91	+30 15.3	2.153	2.933	13.9	19.0
11 27	6 40.46	+30 10.6	1.584	2.461	13.1	17.6	11 27	6 40.09	+30 17.2	2.072	2.939	10.9	18.8
12 7	6 33.60	+30 10.7	1.513	2.450	9.1	17.4	12 7	6 32.78	+30 15.0	2.014	2.946	7.5	18.6
12 17	6 24.22	+30 2.9	1.468	2.439	4.8	17.1	12 17	6 23.66	+30 6.0	1.983	2.952	4.0	18.4
12 27	6 13.54	+29 44.6	1.449	2.428	2.7	16.9	12 27	6 13.73	+29 48.8	1.980	2.959	2.3	18.3
1 6	6 3.08	+29 15.5	1.458	2.418	6.4	17.1	1 6	6 4.15	+29 23.4	2.008	2.966	5.2	18.5
1 16	5 54.31	+28 38.1	1.493	2.409	10.9	17.4	1 16	5 55.98	+28 51.9	2.064	2.973	8.7	18.7
1 26	5 48.35	+27 56.8	1.552	2.401	14.9	17.6	1 26	5 50.02	+28 17.1	2.145	2.980	11.8	18.9
404865	2014 <i>KW</i> ₂₈		12 25.2	225°78	2.8/24.6	18	281194	2007 <i>EO</i> ₂₁₃		12 25.2	182°84	1.0/25.1	18
11 17	6 48.05	+27 21.2	2.040	2.818	14.6	20.8	11 17	6 48.60	+25 29.0	2.092	2.867	14.4	22.2
11 27	6 43.06	+28 23.6	1.945	2.811	11.6	20.6	11 27	6 43.09	+25 43.9	2.002	2.868	11.3	22.0
12 7	6 35.18	+29 28.6	1.872	2.803	8.0	20.4	12 7	6 34.93	+25 58.9	1.935	2.868	7.7	21.8
12 17	6 24.94	+30 31.2	1.826	2.795	4.4	20.1	12 17	6 24.72	+26 11.3	1.895	2.868	3.7	21.5
12 27	6 13.36	+31 26.1	1.810	2.787	3.0	20.0	12 27	6 13.49	+26 18.9	1.885	2.867	1.3	21.3
1 6	6 1.74	+32 9.4	1.824	2.778	6.1	20.2	1 6	6 2.47	+26 20.5	1.905	2.865	5.2	21.6
1 16	5 51.43	+32 39.9	1.867	2.769	9.9	20.4	1 16	5 52.83	+26 16.7	1.954	2.862	9.1	21.8
1 26	5 43.54	+32 59.3	1.935	2.759	13.4	20.6	1 26	5 45.50	+26 9.4	2.028	2.859	12.6	22.1
146533	2001 <i>SM</i> ₂₀₈		12 25.2	16°40	1.6/25.3	18	110429	2001 <i>TB</i> ₂₆		12 25.2	56°33	0.7/25.2	18
11 17	6 42.69	+18 51.0	1.789	2.581	15.8	20.2	11 17	6 44.88	+25 33.7	1.865	2.655	15.4	19.6
11 27	6 38.73	+18 48.1	1.708	2.582	12.5	20.0	11 27	6 40.36	+25 31.9	1.787	2.661	12.1	19.4
12 7	6 32.09	+18 50.3	1.648	2.584	8.6	19.7	12 7	6 33.13	+25 29.3	1.730	2.667	8.1	19.2
12 17	6 23.41	+18 57.0	1.613	2.586	4.2	19.5	12 17	6 23.88	+25 23.9	1.699	2.673	3.8	18.9
12 27	6 13.73	+19 7.3	1.607	2.588	1.8	19.3	12 27	6 13.69	+25 14.3	1.697	2.680	1.1	18.8
1 6	6 4.29	+19 20.1	1.628	2.590	5.7	19.6	1 6	6 3.86	+25 0.5	1.724	2.686	5.4	19.1
1 16	5 56.27	+19 34.8	1.677	2.593	9.9	19.8	1 16	5 55.54	+24 43.6	1.778	2.693	9.5	19.3
1 26	5 50.59	+19 51.1	1.751	2.596	13.6	20.1	1 26	5 49.65	+24 25.9	1.857	2.699	13.1	19.6
403483	2009 <i>UH</i> ₃₈		12 25.2	57°99	0.0/25.2	16	67352	2000 <i>JN</i> ₈₀		12 25.2	16°31	2.2/25.0	18
11 17	6 43.77	+22 43.6	1.978	2.764	14.7	21.3	11 17	6 43.65	+25 55.6	1.171	1.996	20.5	19.0
11 27	6 39.16	+22 53.4	1.911	2.784	11.5	21.1	11 27	6 41.00	+26 27.3	1.107	2.000	16.2	18.7
12 7	6 32.12	+23 5.1	1.867	2.803	7.7	20.9	12 7	6 34.42	+27 0.9	1.061	2.005	11.0	18.4
12 17	6 23.32	+23 16.9	1.849	2.823	3.5	20.7	12 17	6 24.72	+27 31.5	1.037	2.011	5.4	18.1
12 27	6 13.77	+23 27.2	1.860	2.843	0.8	20.5	12 27	6 13.50	+27 54.0	1.037	2.019	2.5	18.0
1 6	6 4.63	+23 35.1	1.901	2.863	4.9	20.9	1 6	6 2.78	+28 5.9	1.063	2.027	7.5	18.3
1 16	5 56.89	+23 40.6	1.969	2.883	8.8	21.2	1 16	5 54.36	+28 7.9	1.112	2.036	12.8	18.6
1 26	5 51.35	+23 44.6	2.063	2.904	12.0	21.4	1 26	5 49.53	+28 3.1	1.182	2.047	17.4	18.9
108954	2001 <i>PD</i> ₃₀		12 25.2	127°59	6.4/26.2	17	329466	2002 <i>QV</i> ₂₄		12 25.2	49°13	6.0/24.5	18
11 17	6 39.34	+1 15.0	2.718	3.441	12.7	20.2	11 17	6 45.24	+11 16.4	2.000	2.764	15.3	19.3
11 27	6 35.01	+0 42.6	2.638	3.449	10.7	20.1	11 27	6 39.94	+9 35.6	1.937	2.786	12.4	19.1
12 7	6 29.03	+0 22.4	2.581	3.457	8.7	19.9	12 7	6 32.44	+8 1.0	1.897	2.808	9.3	19.0
12 17	6 21.84	+0 16.5	2.549	3.464	7.0	19.8	12 17	6 23.42	+6 37.0	1.885	2.830	6.8	18.8
12 27	6 14.10	+0 26.4	2.545	3.471	6.4	19.8	12 27	6 13.84	+5 27.9	1.901	2.853	6.1	18.8
1 6	6 6.53	+0 51.6	2.569	3.478	7.2	19.9	1 6	6 4.74	+4 36.4	1.947	2.875	7.8	19.0
1 16	5 59.80	+1 30.6	2.621	3.485	8.9	20.0	1 16	5 57.02	+4 2.9	2.020	2.898	10.5	19.2
1 26	5 54.50	+2 20.4	2.699	3.492	10.9	20.2	1 26	5 51.35	+3 46.3	2.117	2.921	13.1	19.4
274203	2008 <i>HT</i> ₄₄		12 25.2	169°79	0.5/25.2	18	192151	2006 <i>HD</i> ₅		12 25.2	51°54	9.8/26.4	18
11 17	6 48.43	+21 59.0	1.756	2.541	16.4	22.0	11 17	6 39.25	- 6 0.4	2.329	3.030	15.1	19.7
11 27	6 43.30	+21 56.8	1.673	2.544	12.9	21.8	11 27	6 35.28	- 7 3.3	2.254	3.032	13.3	19.5
12 7	6 35.23	+21 56.9	1.611	2.547	8.7	21.6	12 7	6 29.40	- 7 49.1	2.199	3.035	11.6	19.4
12 17	6 24.88	+21 57.7	1.575	2.549	4.1	21.3	12 17	6 22.09	- 8 13.3	2.167	3.038	10.2	19.3
12 27	6 13.42	+21 57.8	1.568	2.551	1.0	21.1	12 27	6 14.11	- 8 12.9	2.160	3.041	9.8	19.3
1 6	6 2.26	+21 56.5	1.590	2.552	5.8	21.4	1 6	6 6.30	- 7 47.7	2.178	3.045	10.4	19.4
1 16	5 52.70	+21 54.3	1.639	2.552	10.3	21.7	1 16	5 59.46	- 6 59.8	2.221	3.048	11.8	19.5
1 26	5 45.75	+21 52.4	1.713	2.552	14.1	21.9	1 26	5 54.29	- 5 53.6	2.287	3.051	13.5	19.6
160573	1999 <i>CS</i> ₁₄₂		12 25.2	175°80	2.6/25.5	18	342337	2008 <i>TS</i> ₁₁₉		12 25.2	4°11	2.3/25.1	

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
44917	1999 VY ₂₉	12 25.2 112°39'	2°5'/25.2 18				212814	2007 TC ₄₀₀	12 25.2 108°61'	1°1'/25.2 18			
11 17	6 48.92	+18 32.4	1.617	2.403	17.5	19.7	11 17	6 53.08	+25 29.4	1.510	2.300	18.4	20.9
11 27	6 43.64	+18 3.7	1.547	2.417	13.8	19.5	11 27	6 47.24	+25 39.9	1.446	2.319	14.4	20.6
12 7	6 35.38	+17 39.2	1.498	2.431	9.5	19.2	12 7	6 37.97	+25 50.3	1.402	2.338	9.7	20.4
12 17	6 24.92	+17 19.2	1.474	2.444	4.9	19.0	12 17	6 26.16	+25 57.0	1.383	2.357	4.6	20.2
12 27	6 13.51	+17 4.1	1.478	2.457	2.7	18.9	12 27	6 13.29	+25 57.3	1.393	2.375	1.5	20.0
1 6	6 2.60	+16 54.1	1.510	2.469	6.4	19.1	1 6	6 1.07	+25 50.5	1.430	2.392	6.3	20.4
1 16	5 53.45	+16 49.7	1.570	2.481	10.8	19.4	1 16	5 50.98	+25 38.4	1.495	2.409	11.0	20.7
1 26	5 47.01	+16 51.1	1.654	2.493	14.6	19.7	1 26	5 44.05	+25 24.0	1.583	2.425	15.0	21.0
279072	2008 WX ₇₄	12 25.2 288°42'	3°3'/24.7 17				394154	2006 PH ₂₀	12 25.2 104°26'	2°4'/24.9 18			
11 17	6 43.84	+31 16.9	2.365	3.141	12.9	21.1	11 17	6 48.78	+28 31.8	2.093	2.867	14.4	21.3
11 27	6 39.34	+32 4.3	2.274	3.137	10.3	20.9	11 27	6 43.12	+29 8.9	2.024	2.888	11.3	21.1
12 7	6 32.42	+32 49.9	2.206	3.133	7.3	20.7	12 7	6 34.85	+29 44.5	1.977	2.908	7.7	21.0
12 17	6 23.60	+33 29.6	2.165	3.129	4.4	20.5	12 17	6 24.65	+30 14.6	1.958	2.927	4.1	20.8
12 27	6 13.78	+33 59.8	2.154	3.125	3.4	20.5	12 27	6 13.61	+30 35.9	1.969	2.947	2.5	20.7
1 6	6 4.05	+34 18.4	2.172	3.121	5.7	20.6	1 6	6 2.95	+30 47.1	2.010	2.965	5.4	20.9
1 16	5 55.48	+34 25.4	2.219	3.117	8.7	20.8	1 16	5 53.80	+30 48.8	2.079	2.983	8.9	21.2
1 26	5 48.97	+34 23.0	2.291	3.114	11.6	21.0	1 26	5 47.00	+30 43.5	2.174	3.001	12.0	21.4
479456	2013 YG ₁₂₆	12 25.2 83°80'	2°7'/25.2 16				81410	2000 GT ₉₀	12 25.2 158°37'	6°1'/24.2 18			
11 17	6 53.95	+29 41.4	1.467	2.258	18.8	21.6	11 17	6 51.39	+39 21.3	2.374	3.126	13.5	19.8
11 27	6 47.95	+29 52.5	1.411	2.283	14.8	21.4	11 27	6 45.53	+40 36.1	2.294	3.132	11.2	19.7
12 7	6 38.40	+29 59.1	1.374	2.308	10.1	21.2	12 7	6 36.75	+41 44.5	2.237	3.137	8.6	19.5
12 17	6 26.29	+29 56.7	1.362	2.333	5.2	20.9	12 17	6 25.66	+42 40.1	2.206	3.142	6.6	19.4
12 27	6 13.24	+29 42.5	1.378	2.357	2.8	20.9	12 27	6 13.36	+43 17.3	2.205	3.147	6.2	19.4
1 6	6 1.05	+29 16.9	1.422	2.381	6.7	21.2	1 6	6 1.20	+43 33.6	2.233	3.151	7.6	19.5
1 16	5 51.20	+28 43.5	1.492	2.405	11.1	21.5	1 16	5 50.51	+43 30.4	2.288	3.154	10.0	19.6
1 26	5 44.65	+28 7.2	1.587	2.428	15.0	21.8	1 26	5 42.35	+43 11.8	2.368	3.157	12.4	19.8
472929	2015 GO ₂₀	12 25.2 76°27'	5°5'/25.6 18				350890	2002 QD ₁₄₁	12 25.2 143°12'	4°7'/26.1 18			
11 17	6 46.41	+11 44.8	1.408	2.198	19.5	21.1	11 17	6 44.16	+ 8 19.4	2.065	2.822	15.2	20.9
11 27	6 42.00	+11 10.1	1.345	2.212	15.7	20.9	11 27	6 39.41	+ 8 19.9	1.982	2.828	12.3	20.7
12 7	6 34.45	+10 47.3	1.300	2.226	11.4	20.7	12 7	6 32.34	+ 8 32.8	1.921	2.833	9.2	20.5
12 17	6 24.55	+10 38.8	1.279	2.240	7.2	20.5	12 17	6 23.53	+ 8 59.4	1.886	2.839	6.1	20.3
12 27	6 13.61	+10 45.6	1.284	2.254	5.5	20.5	12 27	6 13.86	+ 9 39.0	1.879	2.844	4.8	20.2
1 6	6 3.17	+11 6.8	1.316	2.268	8.2	20.6	1 6	6 4.37	+10 29.9	1.902	2.849	6.6	20.4
1 16	5 54.58	+11 39.9	1.373	2.282	12.2	20.9	1 16	5 56.06	+11 28.9	1.953	2.853	9.7	20.6
1 26	5 48.83	+12 21.6	1.453	2.296	16.0	21.2	1 26	5 49.75	+12 32.9	2.030	2.857	12.7	20.8
45430	2000 AV ₁₆₉	12 25.2 137°21'	2°9'/25.6 18				60559	2000 EN ₉₈	12 25.2 140°63'	0°4'/25.2 17			
11 17	6 45.37	+14 3.1	2.190	2.955	14.2	19.9	11 17	6 42.40	+21 44.4	2.669	3.440	11.7	20.8
11 27	6 40.16	+14 1.2	2.111	2.967	11.3	19.7	11 27	6 37.57	+21 46.3	2.584	3.447	9.2	20.7
12 7	6 32.73	+14 6.7	2.054	2.978	7.9	19.5	12 7	6 30.85	+21 49.8	2.522	3.455	6.2	20.5
12 17	6 23.65	+14 19.8	2.024	2.989	4.5	19.3	12 17	6 22.76	+21 53.9	2.489	3.462	2.9	20.3
12 27	6 13.81	+14 39.6	2.024	2.999	2.9	19.2	12 27	6 14.04	+21 57.8	2.486	3.469	0.7	20.1
1 6	6 4.21	+15 5.1	2.054	3.009	5.4	19.4	1 6	6 5.51	+22 0.9	2.515	3.476	4.0	20.4
1 16	5 55.81	+15 34.9	2.113	3.018	8.8	19.6	1 16	5 57.97	+22 3.3	2.573	3.482	7.2	20.6
1 26	5 49.37	+16 7.6	2.199	3.027	11.8	19.8	1 26	5 52.06	+22 5.5	2.658	3.488	10.0	20.8
460705	2014 UG ₂₁₆	12 25.2 13°01'	3°0'/25.9 18				503509	2016 FQ ₃	12 25.2 82°67'	14°8'/22.4 18			
11 17	6 41.29	+12 19.7	2.196	2.965	14.0	20.5	11 17	7 4.20	+43 53.0	1.123	1.907	23.7	20.1
11 27	6 37.14	+12 38.4	2.108	2.966	11.2	20.3	11 27	6 59.87	+47 11.8	1.077	1.923	20.4	19.9
12 7	6 30.81	+13 7.3	2.043	2.967	8.0	20.1	12 7	6 49.09	+50 19.8	1.050	1.938	17.2	19.8
12 17	6 22.82	+13 46.1	2.004	2.968	4.6	19.9	12 17	6 32.27	+52 54.4	1.044	1.953	15.1	19.7
12 27	6 13.98	+14 33.4	1.994	2.969	3.0	19.8	12 27	6 11.86	+54 35.5	1.061	1.968	15.1	19.7
1 6	6 5.25	+15 26.9	2.014	2.971	5.3	19.9	1 6	5 51.82	+55 15.8	1.100	1.983	16.8	19.9
1 16	5 57.58	+16 24.0	2.063	2.972	8.7	20.1	1 16	5 36.02	+55 3.4	1.159	1.998	19.4	20.1
1 26	5 51.76	+17 22.2	2.138	2.974	11.9	20.3	1 26	5 26.75	+54 15.3	1.234	2.013	22.1	20.3
194851	2002 AU ₂₄	12 25.2 45°98'	0°2'/25.2 18				351703	2006 BS ₁₆₂	12 25.2 23°53'	0°6'/25.3 18			
11 17	6 50.56	+27 50.1	1.331	2.135	19.7	19.2	11 17	6 38.27	+20 56.9	2.678	3.457	11.5	21.2
11 27	6 45.46	+26 54.8	1.271	2.152	15.4	18.9	11 27	6 34.40	+21 0.9	2.594	3.462	9.0	21.1
12 7	6 36.76	+25 52.9	1.230	2.170	10.4	18.7	12 7	6 28.75	+21 7.1	2.534	3.468	6.0	20.9
12 17	6 25.54	+24 44.0	1.214	2.189	4.8	18.4	12 17	6 21.81	+21 14.9	2.501	3.474	2.8	20.7
12 27	6 13.44	+23 30.2	1.225	2.208	1.0	18.2	12 27	6 14.25	+21 23.4	2.498	3.481	0.8	20.5
1 6	6 2.25	+22 15.8	1.263	2.227	6.6	18.6	1 6	6 6.87	+21 32.0	2.526	3.488	3.9	20.8
1 16	5 53.43	+21 6.2	1.327	2.247	11.6	19.0	1 16	6 0.39	+21 40.3	2.583	3.495	7.0	21.0
1 26	5 47.90	+20 5.9	1.415	2.267	15.8	19.3	1 26	5 55.45	+21 48.6	2.666	3.502	9.8	21.2
46248	2001 HM ₂₂	12 25.2 182°63'	6°6'/25.9 18				3306	Byron	12 25.2 172°23'	2°4'/25.3 18 R			
11 17	6 39.69	+ 1 30.5	2.664	3.389	12.8	19.0	11 17	6 48.41	+17 50.0	1.783	2.562	16.4	16.9
11 27	6 35.39	+ 0 51.2	2.577	3.389	10.9	18.9	11 27	6 43.17	+17 30.6	1.699	2.565	13.0	16.7
12 7	6 29.37	+ 0 23.5	2.512	3.389	8.8	18.8	12 7	6 35.11	+17 15.9	1.637	2.568	9.0	16.4
12 17	6 22.08	+ 0 10.3	2.473	3.389	7.2	18.6	12 17	6 24.87	+17 6.0	1.600	2.570	4.7	16.2
12 27	6 14.16	+ 0 13.1	2.462	3.388	6.6	18.6	12 27	6 13.58	+17 0.8	1.592	2.571	2.6	16.0
1 6	6 6.37	+ 0 32.1	2.479	3.388	7.5	18.7	1 6	6 2.56	+17 0.0	1.613	2.572	6.1	16.3
1 16	5 59.42	+ 1 5.8	2.524	3.387	9.3	18.8	1 16	5 53.07	+17 3.8	1.662	2.572	10.4	16.5
1 26	5 53.94	+ 1 51.5	2.594	3.385	11.3	18.9	1 26	5 46.08	+17 12.1	1.736	2.572	14.2	16.8
220080	2002 RX ₂₂₂	12 25.2 120°11'	0°1'/25.2 18				79795	1998 VW ₆	12 25.2 58°59'	3°9'/25.0 18			
11 17	6 50.10	+21 59.5	1.728	2.511									

EPHEMERIDES

12 25.2

12 25.2

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
192708	1999 <i>TW</i> ₁₀₂	12 25.2 112°70	0°4/25.2 18				42328	2001 <i>XM</i> ₁₃₃	12 25.2 171°44	1°0/25.3 18			
11 17	6 48.82	+22 43.1	2.099	2.871	14.4	20.6	11 17	6 47.38	+19 25.3	2.068	2.841	14.6	19.7
11 27	6 43.01	+23 13.3	2.029	2.893	11.3	20.4	11 27	6 42.07	+19 38.8	1.981	2.845	11.5	19.5
12 7	6 34.71	+23 46.1	1.981	2.914	7.6	20.3	12 7	6 34.24	+19 57.1	1.916	2.848	7.8	19.2
12 17	6 24.59	+24 18.7	1.961	2.935	3.5	20.0	12 17	6 24.46	+20 18.7	1.878	2.851	3.8	19.0
12 27	6 13.66	+24 48.2	1.972	2.954	0.9	19.9	12 27	6 13.70	+20 41.7	1.870	2.852	1.2	18.8
1 6	6 3.09	+25 12.8	2.013	2.974	4.9	20.2	1 6	6 3.13	+21 4.6	1.893	2.854	5.1	19.1
1 16	5 53.93	+25 32.2	2.083	2.992	8.7	20.5	1 16	5 53.84	+21 26.4	1.944	2.854	9.1	19.3
1 26	5 47.01	+25 47.3	2.180	3.010	11.9	20.7	1 26	5 46.75	+21 47.2	2.021	2.854	12.6	19.6
148233	2000 <i>DV</i> ₁₀₉	12 25.2 202°36	2°4/25.1 18				197007	2003 <i>UB</i> ₉₉	12 25.2 123°54	6°2/24.0 17			
11 17	6 50.07	+29 15.0	2.036	2.810	14.8	21.2	11 17	6 49.05	+40 24.6	2.494	3.245	13.0	20.0
11 27	6 44.51	+29 36.8	1.942	2.805	11.7	21.0	11 27	6 43.63	+41 43.3	2.417	3.252	10.7	19.9
12 7	6 36.06	+29 56.4	1.870	2.800	8.1	20.8	12 7	6 35.44	+42 55.5	2.363	3.259	8.4	19.7
12 17	6 25.36	+30 10.0	1.826	2.795	4.3	20.5	12 17	6 25.08	+43 54.7	2.335	3.266	6.7	19.6
12 27	6 13.48	+30 14.2	1.810	2.789	2.6	20.4	12 27	6 13.56	+44 35.9	2.337	3.272	6.3	19.6
1 6	6 1.77	+30 8.0	1.825	2.781	5.8	20.6	1 6	6 2.16	+44 56.6	2.367	3.278	7.6	19.7
1 16	5 51.54	+29 52.4	1.868	2.774	9.7	20.8	1 16	5 52.12	+44 58.0	2.424	3.285	9.7	19.8
1 26	5 43.82	+29 30.8	1.937	2.765	13.2	21.0	1 26	5 44.46	+44 43.7	2.506	3.291	11.9	20.0
458697	2011 <i>HT</i> ₆₅	12 25.2 283°85	4°5/25.7 16				333044	2011 <i>SP</i> ₁₃₁	12 25.2 176°40	1°8/25.0 18			
11 17	6 39.85	+9 30.8	2.391	3.150	13.2	21.7	11 17	6 47.75	+27 19.1	2.243	3.015	13.6	22.1
11 27	6 35.92	+9 11.9	2.286	3.134	10.8	21.5	11 27	6 42.34	+27 48.3	2.154	3.018	10.7	21.9
12 7	6 29.98	+9 1.8	2.204	3.117	8.1	21.3	12 7	6 34.41	+28 17.2	2.088	3.019	7.4	21.7
12 17	6 22.47	+9 2.2	2.149	3.101	5.5	21.1	12 17	6 24.54	+28 42.4	2.050	3.021	3.7	21.5
12 27	6 14.11	+9 14.0	2.121	3.084	4.5	21.0	12 27	6 13.70	+29 0.9	2.042	3.021	2.0	21.4
1 6	6 5.76	+9 36.8	2.123	3.067	6.2	21.0	1 6	6 3.03	+29 11.3	2.064	3.021	5.1	21.6
1 16	5 58.29	+10 9.4	2.153	3.050	9.0	21.2	1 16	5 53.64	+29 13.9	2.115	3.021	8.7	21.8
1 26	5 52.46	+10 49.7	2.209	3.034	11.9	21.4	1 26	5 46.43	+29 10.5	2.192	3.019	11.9	22.0
439232	2012 <i>TD</i> ₁₂₂	12 25.2 225°49	0°7/25.2 18				52395	1993 <i>RJ</i> ₆	12 25.2 64°40	5°2/25.2 18			
11 17	6 47.99	+25 54.1	1.738	2.527	16.4	21.3	11 17	6 52.49	+35 38.9	1.696	2.474	17.1	19.4
11 27	6 43.18	+25 46.1	1.649	2.522	12.9	21.1	11 27	6 46.63	+36 18.9	1.644	2.504	13.7	19.3
12 7	6 35.30	+25 36.4	1.581	2.518	8.8	20.8	12 7	6 37.44	+36 50.5	1.613	2.534	9.9	19.1
12 17	6 25.03	+25 22.9	1.539	2.513	4.1	20.5	12 17	6 25.88	+37 7.7	1.607	2.564	6.5	19.0
12 27	6 13.56	+25 4.1	1.525	2.508	1.1	20.3	12 27	6 13.45	+37 6.3	1.629	2.594	5.2	19.0
1 6	6 2.36	+24 40.1	1.540	2.502	5.9	20.6	1 6	6 1.81	+36 46.6	1.678	2.623	7.4	19.2
1 16	5 52.81	+24 13.0	1.582	2.497	10.5	20.8	1 16	5 52.35	+36 12.2	1.755	2.653	10.7	19.4
1 26	5 45.97	+23 45.7	1.649	2.491	14.5	21.1	1 26	5 45.98	+35 29.0	1.855	2.682	13.8	19.7
172228	2002 <i>RJ</i> ₁₁₃	12 25.2 64°85	1°4/25.4 18				93390	2000 <i>SC</i> ₂₈₁	12 25.2 163°11	1°3/25.3 18			
11 17	6 44.49	+18 50.6	1.733	2.524	16.3	20.1	11 17	6 49.94	+28 52.1	1.725	2.510	16.6	18.9
11 27	6 40.16	+18 57.0	1.660	2.533	12.9	19.9	11 27	6 44.63	+28 28.2	1.641	2.512	13.1	18.6
12 7	6 33.09	+19 9.1	1.608	2.543	8.8	19.7	12 7	6 36.19	+27 58.5	1.578	2.513	9.0	18.4
12 17	6 23.94	+19 25.9	1.580	2.553	4.3	19.4	12 17	6 25.40	+27 21.0	1.541	2.514	4.4	18.1
12 27	6 13.81	+19 45.8	1.581	2.563	1.6	19.2	12 27	6 13.55	+26 35.0	1.533	2.515	1.5	17.9
1 6	6 4.02	+20 7.0	1.611	2.573	5.7	19.5	1 6	6 2.15	+25 42.2	1.553	2.515	5.9	18.2
1 16	5 55.74	+20 28.6	1.668	2.584	9.9	19.8	1 16	5 52.58	+24 46.6	1.602	2.516	10.4	18.5
1 26	5 49.91	+20 50.3	1.749	2.594	13.6	20.1	1 26	5 45.82	+23 52.5	1.675	2.516	14.3	18.7
174774	2003 <i>WN</i> ₅₅	12 25.2 106°84	1°3/25.2 18				139112	2001 <i>FZ</i> ₅₃	12 25.2 213°60	11°9/24.5 18			
11 17	6 51.12	+26 16.8	1.533	2.325	18.0	20.5	11 17	6 43.42	-14 10.5	2.595	3.229	15.1	21.2
11 27	6 45.77	+26 24.9	1.464	2.339	14.2	20.3	11 27	6 38.50	-15 49.4	2.513	3.221	13.9	21.0
12 7	6 37.04	+26 32.1	1.416	2.353	9.6	20.0	12 7	6 31.60	-17 10.7	2.451	3.212	12.8	20.9
12 17	6 25.78	+26 34.9	1.393	2.367	4.6	19.8	12 17	6 23.20	-18 8.5	2.410	3.202	12.1	20.9
12 27	6 13.42	+26 30.8	1.398	2.380	1.6	19.6	12 27	6 14.01	-18 38.1	2.393	3.192	11.9	20.8
1 6	6 1.63	+26 19.3	1.431	2.393	6.3	20.0	1 6	6 4.86	-18 38.0	2.399	3.181	12.4	20.9
1 16	5 51.87	+26 2.4	1.491	2.406	11.0	20.3	1 16	5 56.59	-18 9.1	2.427	3.169	13.4	20.9
1 26	5 45.20	+25 43.2	1.575	2.418	15.0	20.5	1 26	5 49.93	-17 15.6	2.475	3.157	14.6	21.0
326513	2002 <i>NB</i> ₃₀	12 25.2 214°02	1°7/25.5 18				64152	2001 <i>TO</i> ₄₁	12 25.2 27°45	4°5/25.1 18			
11 17	6 41.73	+16 34.0	2.691	3.456	11.8	21.4	11 17	6 47.20	+32 3.3	1.360	2.167	19.2	18.0
11 27	6 37.12	+16 42.9	2.592	3.450	9.3	21.2	11 27	6 43.51	+32 38.5	1.293	2.173	15.3	17.8
12 7	6 30.64	+16 57.1	2.517	3.444	6.5	21.0	12 7	6 35.98	+33 8.8	1.245	2.180	10.8	17.5
12 17	6 22.73	+17 16.1	2.469	3.438	3.4	20.8	12 17	6 25.46	+33 27.9	1.220	2.187	6.4	17.3
12 27	6 14.07	+17 38.9	2.452	3.431	1.7	20.6	12 27	6 13.53	+33 30.6	1.220	2.195	4.6	17.2
1 6	6 5.48	+18 4.4	2.466	3.424	4.3	20.8	1 6	6 2.15	+33 15.8	1.247	2.203	7.9	17.5
1 16	5 57.74	+18 31.7	2.509	3.417	7.4	21.0	1 16	5 53.04	+32 46.5	1.298	2.212	12.3	17.7
1 26	5 51.55	+19 0.0	2.580	3.409	10.3	21.2	1 26	5 47.41	+32 8.7	1.371	2.221	16.4	18.0
234966	2002 <i>XM</i> ₇	12 25.2 46°40	3°0/25.2 16				104816	2000 <i>HC</i> ₅₁	12 25.2 196°66	1°1/25.1 18			
11 17	6 44.86	+31 52.9	2.057	2.839	14.4	20.2	11 17	6 42.44	+25 59.0	2.660	3.433	11.7	20.5
11 27	6 40.15	+32 6.9	1.988	2.855	11.4	20.1	11 27	6 37.80	+26 20.9	2.567	3.432	9.2	20.3
12 7	6 32.88	+32 16.0	1.942	2.872	7.9	19.9	12 7	6 31.16	+26 42.8	2.498	3.430	6.2	20.1
12 17	6 23.76	+32 16.9	1.922	2.888	4.5	19.7	12 17	6 23.00	+27 2.8	2.457	3.429	3.0	19.9
12 27	6 13.87	+32 7.5	1.930	2.905	3.1	19.7	12 27	6 14.07	+27 18.9	2.446	3.427	1.3	19.8
1 6	6 4.42	+31 47.9	1.967	2.922	5.6	19.8	1 6	6 5.26	+27 30.0	2.465	3.425	4.3	20.0
1 16	5 56.49	+31 19.9	2.033	2.940	8.9	20.1	1 16	5 57.42	+27 36.0	2.515	3.422	7.4	20.2
1 26	5 50.88	+30 47.0	2.123	2.957	12.0	20.3	1 26	5 51.28	+27 37.9	2.591	3.420	10.2	20.4
429117	2009 <i>SF</i> ₂₃₆	12 25.2 65°59	3°8/25.9 18				451914	2014 <i>KU</i> ₃₈	12 25.2 119°42	0			

EPHEMERIDES

12 25.2

12 25.2

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
369159	2008 <i>SC</i> ₈₆		12 25.2 123°35'	0.8/25.2	17		484865	2009 <i>NJ</i> ₂		12 25.2 164°52'	4.7/25.3	17	
11 17	6 42.53	+21 53.5	2.405	3.182	12.7	21.4	11 17	6 49.89	+38 21.9	2.437	3.191	13.2	21.5
11 27	6 37.90	+21 37.8	2.318	3.185	10.0	21.2	11 27	6 43.97	+38 42.7	2.351	3.195	10.7	21.4
12 7	6 31.21	+21 23.0	2.255	3.189	6.7	21.0	12 7	6 35.45	+38 55.3	2.289	3.199	8.0	21.2
12 17	6 22.99	+21 8.6	2.219	3.192	3.2	20.8	12 17	6 25.01	+38 55.3	2.253	3.202	5.6	21.0
12 27	6 14.08	+20 54.3	2.213	3.195	1.0	20.6	12 27	6 13.70	+38 39.7	2.246	3.204	4.7	21.0
1 6	6 5.40	+20 40.3	2.237	3.199	4.4	20.9	1 6	6 2.75	+38 8.5	2.269	3.206	6.3	21.1
1 16	5 57.82	+20 27.4	2.291	3.202	7.9	21.1	1 16	5 53.28	+37 24.2	2.320	3.208	8.9	21.3
1 26	5 52.04	+20 16.4	2.371	3.205	10.9	21.3	1 26	5 46.13	+36 31.3	2.398	3.210	11.5	21.4
178820	2001 <i>FR</i> ₁₅₈		12 25.2 152°81'	2.4/25.2	18		147829	2005 <i>SM</i> ₂₆₁		12 25.2 256°68'	3.4/25.5	17	
11 17	6 51.65	+29 20.5	1.855	2.632	15.9	20.3	11 17	6 42.38	+14 3.7	2.036	2.812	14.7	20.3
11 27	6 45.83	+29 37.6	1.775	2.641	12.6	20.1	11 27	6 38.19	+13 45.1	1.947	2.808	11.8	20.1
12 7	6 36.95	+29 51.6	1.717	2.648	8.7	19.9	12 7	6 31.65	+13 33.6	1.879	2.805	8.4	19.9
12 17	6 25.76	+29 58.7	1.686	2.655	4.5	19.7	12 17	6 23.31	+13 30.1	1.837	2.801	5.0	19.7
12 27	6 13.49	+29 55.7	1.683	2.662	2.6	19.5	12 27	6 14.06	+13 34.9	1.823	2.797	3.5	19.6
1 6	6 1.61	+29 42.0	1.710	2.667	6.0	19.8	1 6	6 4.95	+13 47.8	1.839	2.793	6.0	19.7
1 16	5 51.47	+29 19.6	1.765	2.672	10.0	20.0	1 16	5 57.01	+14 7.6	1.882	2.789	9.5	19.9
1 26	5 44.08	+28 52.2	1.845	2.677	13.6	20.3	1 26	5 51.08	+14 33.2	1.951	2.786	12.9	20.1
319722	2006 <i>UO</i> ₇₅		12 25.2 15°54'	2.5/25.4	18		139910	2001 <i>RJ</i> ₁₀₈		12 25.2 206°56'	0.9/25.2	18	
11 17	6 42.34	+17 13.5	1.670	2.465	16.7	21.2	11 17	6 45.16	+25 6.8	2.055	2.838	14.4	20.7
11 27	6 38.64	+17 1.7	1.592	2.467	13.2	20.9	11 27	6 40.52	+25 20.4	1.966	2.836	11.3	20.5
12 7	6 32.18	+16 56.3	1.534	2.469	9.2	20.7	12 7	6 33.30	+25 34.6	1.899	2.834	7.7	20.3
12 17	6 23.59	+16 57.4	1.502	2.472	4.8	20.5	12 17	6 24.10	+25 46.9	1.859	2.832	3.6	20.1
12 27	6 13.97	+17 4.7	1.496	2.476	2.6	20.3	12 27	6 13.89	+25 55.2	1.848	2.830	1.2	19.9
1 6	6 4.62	+17 17.4	1.519	2.480	6.2	20.6	1 6	6 3.87	+25 58.5	1.866	2.827	5.1	20.1
1 16	5 56.76	+17 34.4	1.568	2.484	10.4	20.8	1 16	5 55.17	+25 57.0	1.913	2.825	9.1	20.4
1 26	5 51.34	+17 55.1	1.640	2.489	14.2	21.1	1 26	5 48.70	+25 52.4	1.985	2.822	12.6	20.6
268221	2005 <i>CD</i> ₆₈		12 25.2 274°69'	3.2/25.7	18		278111	2007 <i>BO</i> ₁₀₀		12 25.2 346°27'	2.4/25.5	18	
11 17	6 40.61	+12 30.0	2.355	3.122	13.2	20.4	11 17	6 43.19	+17 27.4	1.311	2.122	19.5	21.4
11 27	6 36.48	+12 28.3	2.264	3.120	10.6	20.2	11 27	6 40.22	+17 27.6	1.233	2.118	15.5	21.1
12 7	6 30.33	+12 34.7	2.195	3.117	7.6	20.0	12 7	6 33.78	+17 37.0	1.174	2.114	10.8	20.9
12 17	6 22.64	+12 49.7	2.152	3.114	4.6	19.8	12 17	6 24.53	+17 55.1	1.138	2.110	5.5	20.5
12 27	6 14.17	+13 13.0	2.139	3.111	3.3	19.7	12 27	6 13.79	+18 20.5	1.127	2.108	2.6	20.4
1 6	6 5.81	+13 43.6	2.156	3.109	5.3	19.9	1 6	6 3.28	+18 50.8	1.141	2.105	7.2	20.6
1 16	5 58.42	+14 19.8	2.201	3.106	8.4	20.1	1 16	5 54.60	+19 23.9	1.181	2.104	12.4	20.9
1 26	5 52.74	+14 59.9	2.272	3.103	11.4	20.2	1 26	5 49.03	+19 58.4	1.242	2.103	17.0	21.2
55286	2001 <i>SS</i> ₂₂		12 25.2 334°88'	8.3/25.4	18		271205	2003 <i>SZ</i> ₃₇₆		12 25.2 129°96'	4.1/25.6	17	
11 17	6 40.16	+ 4 57.9	1.721	2.490	17.3	18.9	11 17	6 41.06	+10 35.7	2.420	3.179	13.1	21.1
11 27	6 36.82	+ 3 50.1	1.638	2.483	14.6	18.7	11 27	6 36.66	+10 11.4	2.336	3.185	10.6	20.9
12 7	6 30.92	+ 2 55.0	1.575	2.476	11.6	18.5	12 7	6 30.35	+ 9 55.1	2.275	3.190	7.8	20.8
12 17	6 23.01	+ 2 17.8	1.536	2.469	9.2	18.3	12 17	6 22.63	+ 9 48.1	2.241	3.195	5.2	20.6
12 27	6 14.09	+ 2 2.3	1.521	2.463	8.4	18.2	12 27	6 14.24	+ 9 51.1	2.236	3.200	4.2	20.5
1 6	6 5.32	+ 2 9.9	1.533	2.458	9.9	18.3	1 6	6 6.03	+10 3.7	2.260	3.205	5.8	20.7
1 16	5 57.83	+ 2 38.9	1.569	2.452	12.7	18.5	1 16	5 58.81	+10 25.0	2.313	3.209	8.5	20.8
1 26	5 52.57	+ 3 25.4	1.627	2.448	15.7	18.7	1 26	5 53.24	+10 53.4	2.392	3.214	11.2	21.0
351733	2006 <i>CP</i> ₆₇		12 25.2 28°73'	1.1/25.1	18		409675	2005 <i>YR</i> ₂₉₀		12 25.2 130°50'	3.2/25.2	17	
11 17	6 39.79	+26 13.5	2.424	3.208	12.4	20.2	11 17	6 46.66	+33 26.2	2.385	3.153	13.0	20.9
11 27	6 35.82	+26 30.2	2.350	3.221	9.7	20.0	11 27	6 41.35	+33 41.0	2.302	3.160	10.4	20.8
12 7	6 29.83	+26 46.3	2.300	3.235	6.5	19.9	12 7	6 33.65	+33 50.4	2.243	3.166	7.4	20.6
12 17	6 22.37	+27 0.2	2.277	3.249	3.1	19.7	12 17	6 24.18	+33 51.1	2.210	3.173	4.4	20.4
12 27	6 14.25	+27 9.9	2.283	3.264	1.3	19.5	12 27	6 13.92	+33 40.9	2.207	3.179	3.3	20.4
1 6	6 6.39	+27 14.9	2.318	3.279	4.4	19.8	1 6	6 3.97	+33 19.6	2.234	3.185	5.4	20.5
1 16	5 59.63	+27 15.4	2.383	3.295	7.6	20.0	1 16	5 55.36	+32 49.1	2.289	3.190	8.4	20.7
1 26	5 54.65	+27 12.5	2.473	3.311	10.4	20.2	1 26	5 48.89	+32 12.5	2.371	3.196	11.2	20.9
267906	2004 <i>BZ</i> ₁₅₇		12 25.2 288°93'	2.6/25.4	18		137457	1999 <i>TC</i> ₂₈₉		12 25.2 23°32'	6.1/25.1	18	
11 17	6 44.67	+17 44.3	1.469	2.269	18.3	21.4	11 17	6 49.97	+34 51.1	1.362	2.162	19.5	19.7
11 27	6 41.21	+17 31.8	1.374	2.252	14.7	21.1	11 27	6 45.99	+35 39.5	1.290	2.164	15.8	19.5
12 7	6 34.42	+17 26.0	1.299	2.235	10.3	20.8	12 7	6 37.89	+36 21.3	1.238	2.166	11.6	19.2
12 17	6 24.85	+17 27.1	1.247	2.219	5.4	20.5	12 17	6 26.47	+36 48.5	1.208	2.168	7.6	19.0
12 27	6 13.67	+17 34.7	1.222	2.202	2.8	20.2	12 27	6 13.41	+36 54.2	1.203	2.171	6.2	19.0
1 6	6 2.48	+17 47.9	1.223	2.185	7.1	20.5	1 6	6 0.84	+36 36.5	1.225	2.174	9.0	19.1
1 16	5 52.87	+18 5.9	1.250	2.169	12.3	20.7	1 16	5 50.69	+35 59.3	1.271	2.178	13.1	19.4
1 26	5 46.19	+18 28.0	1.299	2.152	16.9	20.9	1 26	5 44.30	+35 10.0	1.338	2.181	17.1	19.6
329003	2010 <i>XJ</i> ₄₅		12 25.2 65°91'	1.3/25.1	18		91350	1999 <i>JR</i> ₅₃		12 25.2 206°48'	1.1/25.1	18	
11 17	6 49.40	+22 54.9	1.273	2.081	20.2	20.3	11 17	6 47.22	+24 22.8	1.871	2.656	15.5	19.7
11 27	6 45.09	+23 43.1	1.213	2.096	15.8	20.1	11 27	6 42.48	+24 54.1	1.782	2.653	12.2	19.5
12 7	6 36.98	+24 37.2	1.171	2.112	10.7	19.8	12 7	6 34.84	+25 28.2	1.715	2.650	8.3	19.3
12 17	6 25.92	+25 31.9	1.153	2.128	5.0	19.6	12 17	6 24.90	+26 1.6	1.673	2.646	4.0	19.0
12 27	6 13.48	+26 21.1	1.162	2.144	1.7	19.4	12 27	6 13.75	+26 30.8	1.661	2.643	1.4	18.8
1 6	6 1.59	+27 0.7	1.197	2.160	7.0	19.8	1 6	6 2.72	+26 53.5	1.678	2.639	5.7	19.1
1 16	5 51.97	+27 29.6	1.257	2.176	12.2	20.1	1 16	5 53.13	+27 9.2	1.723	2.634	9.9	19.3
1 26	5 45.80	+27 49.8	1.340	2.192	16.5	20.4	1 26	5 46.04	+27 19.2	1.792	2.630	13.7	19.6
199315	2006 <i>BN</i> ₁₀₃		12 25.2 145°39'	3.5/25.7	17		411700	2011 <i>YV</i> ₅₇	</				

EPHEMERIDES

12 25.2

12 25.3

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
187346	2005 <i>UB</i> ₁₈₀	12 25.2 126°33	0°4/25.3 18				348534	2005 <i>UH</i> ₁₅₁	12 25.3 124°27	1°0/25.2 18			
11 17	6 43.71	+21 27.7	2.190	2.969	13.7	21.3	11 17	6 44.68	+25 34.2	2.174	2.954	13.8	21.9
11 27	6 39.10	+21 36.8	2.106	2.974	10.7	21.1	11 27	6 39.95	+25 49.4	2.090	2.959	10.8	21.7
12 7	6 32.19	+21 48.6	2.045	2.979	7.3	20.9	12 7	6 32.82	+26 4.7	2.030	2.964	7.3	21.5
12 17	6 23.55	+22 1.8	2.010	2.984	3.4	20.6	12 17	6 23.88	+26 17.8	1.996	2.969	3.5	21.3
12 27	6 14.08	+22 14.9	2.005	2.988	0.8	20.4	12 27	6 14.06	+26 26.6	1.992	2.974	1.3	21.1
1 6	6 4.81	+22 26.8	2.031	2.993	4.7	20.7	1 6	6 4.48	+26 30.2	2.017	2.978	4.9	21.4
1 16	5 56.74	+22 37.2	2.085	2.997	8.4	21.0	1 16	5 56.17	+26 28.9	2.071	2.982	8.6	21.6
1 26	5 50.67	+22 46.6	2.164	3.001	11.7	21.2	1 26	5 49.96	+26 24.3	2.151	2.987	11.8	21.9
408620	2014 <i>KB</i> ₅₆	12 25.2 164°25	2°9/25.5 18				318698	Barthalojos	12 25.3 56°34	1°1/25.2 18			
11 17	6 44.38	+13 51.0	2.597	3.352	12.4	23.0	11 17	6 45.80	+26 11.9	1.786	2.577	15.9	21.0
11 27	6 39.11	+13 35.7	2.509	3.359	9.9	22.9	11 27	6 41.16	+26 15.8	1.718	2.593	12.4	20.8
12 7	6 31.93	+13 26.1	2.445	3.365	7.0	22.7	12 7	6 33.74	+26 18.7	1.673	2.609	8.4	20.6
12 17	6 23.36	+13 22.7	2.408	3.370	4.2	22.5	12 17	6 24.30	+26 18.1	1.652	2.626	4.0	20.4
12 27	6 14.12	+13 25.6	2.402	3.374	2.9	22.4	12 27	6 14.00	+26 12.4	1.660	2.642	1.3	20.2
1 6	6 5.07	+13 34.5	2.427	3.378	5.0	22.6	1 6	6 4.16	+26 1.3	1.697	2.659	5.4	20.5
1 16	5 56.98	+13 48.8	2.482	3.381	7.9	22.8	1 16	5 55.97	+25 46.2	1.761	2.676	9.5	20.8
1 26	5 50.54	+14 7.6	2.563	3.384	10.6	23.0	1 26	5 50.30	+25 29.4	1.850	2.693	13.1	21.1
180808	2005 <i>EU</i> ₁₆₈	12 25.3 199°78	2°7/25.4 18				186735	2004 <i>CK</i> ₁₈	12 25.3 173°48	3°9/25.1 18			
11 17	6 47.90	+17 3.9	1.745	2.525	16.6	21.3	11 17	6 51.46	+32 0.2	1.737	2.519	16.7	20.6
11 27	6 42.97	+16 45.7	1.657	2.523	13.3	21.1	11 27	6 46.17	+32 32.9	1.655	2.521	13.3	20.4
12 7	6 35.14	+16 33.1	1.589	2.520	9.3	20.8	12 7	6 37.50	+33 1.5	1.594	2.523	9.4	20.1
12 17	6 25.03	+16 26.3	1.547	2.516	5.0	20.6	12 17	6 26.20	+33 20.4	1.559	2.524	5.6	19.9
12 27	6 13.75	+16 25.4	1.533	2.512	2.8	20.4	12 27	6 13.58	+33 25.2	1.551	2.525	4.0	19.8
1 6	6 2.66	+16 29.8	1.548	2.507	6.4	20.6	1 6	6 1.28	+33 14.3	1.572	2.525	7.0	20.0
1 16	5 53.05	+16 39.4	1.591	2.501	10.7	20.9	1 16	5 50.86	+32 50.0	1.620	2.525	10.9	20.2
1 26	5 45.98	+16 53.6	1.658	2.495	14.6	21.1	1 26	5 43.43	+32 17.1	1.692	2.525	14.6	20.5
220441	2003 <i>WC</i> ₈₄	12 25.3 358°85	15°5/23.1 16				523331	2017 <i>BE</i> ₁₃₉	12 25.3 176°87	0°7/25.3 18			
11 17	6 54.65	+58 10.4	1.689	2.408	19.4	19.3	11 17	6 43.83	+20 7.7	2.126	2.905	14.1	21.7
11 27	6 51.86	+60 21.5	1.631	2.404	17.8	19.2	11 27	6 39.33	+20 23.3	2.038	2.906	11.1	21.5
12 7	6 43.31	+62 12.6	1.591	2.401	16.5	19.1	12 7	6 32.45	+20 43.4	1.972	2.906	7.5	21.2
12 17	6 29.53	+63 30.6	1.569	2.400	15.6	19.0	12 17	6 23.74	+21 6.3	1.934	2.907	3.6	21.0
12 27	6 12.73	+64 4.5	1.568	2.400	15.5	19.0	12 27	6 14.10	+21 30.4	1.924	2.907	1.0	20.8
1 6	5 56.32	+63 50.8	1.586	2.401	16.2	19.1	1 6	6 4.61	+21 53.9	1.945	2.907	4.9	21.1
1 16	5 43.59	+62 54.7	1.623	2.403	17.5	19.2	1 16	5 56.31	+22 16.1	1.994	2.907	8.7	21.3
1 26	5 36.51	+61 27.4	1.678	2.407	19.0	19.3	1 26	5 50.05	+22 36.8	2.069	2.906	12.1	21.5
389903	2012 <i>TE</i> ₃₈	12 25.3 33°79	5°1/25.2 16				185704	1998 <i>OD</i> ₈	12 25.3 60°00	0°2/25.3 18 R			
11 17	6 48.53	+33 35.7	1.414	2.215	18.9	21.0	11 17	6 51.89	+24 31.5	1.285	2.088	20.3	19.5
11 27	6 44.52	+34 13.4	1.345	2.221	15.1	20.8	11 27	6 46.51	+24 22.6	1.237	2.118	15.8	19.3
12 7	6 36.68	+34 45.0	1.296	2.227	10.9	20.6	12 7	6 37.54	+24 13.9	1.209	2.148	10.5	19.0
12 17	6 25.85	+35 3.6	1.271	2.234	6.8	20.4	12 17	6 26.03	+24 3.0	1.204	2.179	4.8	18.8
12 27	6 13.62	+35 4.0	1.270	2.242	5.2	20.3	12 27	6 13.68	+23 48.5	1.226	2.209	1.0	18.6
1 6	6 1.92	+34 45.0	1.297	2.250	8.1	20.5	1 6	6 2.29	+23 30.9	1.275	2.239	6.6	19.1
1 16	5 52.51	+34 10.2	1.348	2.258	12.3	20.8	1 16	5 53.32	+23 12.3	1.350	2.270	11.5	19.4
1 26	5 46.56	+33 25.8	1.421	2.266	16.2	21.0	1 26	5 47.68	+22 55.3	1.448	2.300	15.6	19.8
498042	2007 <i>JM</i> ₄₀	12 25.3 200°04	10°8/24.1 17				284032	2004 <i>XS</i> ₉₄	12 25.3 29°02	2°0/25.1 18			
11 17	6 53.34	+ 6 21.2	1.360	2.126	21.2	21.6	11 17	6 45.22	+26 20.3	1.396	2.205	18.6	19.5
11 27	6 47.86	+ 4 17.1	1.281	2.123	17.9	21.4	11 27	6 41.67	+26 48.8	1.328	2.213	14.7	19.3
12 7	6 38.79	+ 2 21.7	1.220	2.119	14.4	21.2	12 7	6 34.64	+27 18.1	1.281	2.221	10.0	19.0
12 17	6 26.84	+ 0 44.3	1.183	2.114	11.5	21.0	12 17	6 24.90	+27 43.8	1.257	2.230	4.9	18.8
12 27	6 13.39	- 0 26.3	1.171	2.108	10.9	20.9	12 27	6 13.89	+28 1.9	1.259	2.240	2.3	18.6
1 6	6 0.18	- 1 4.7	1.185	2.100	13.0	21.0	1 6	6 3.33	+28 10.4	1.288	2.251	6.7	18.9
1 16	5 48.88	- 1 10.5	1.222	2.092	16.5	21.2	1 16	5 54.78	+28 10.1	1.342	2.261	11.5	19.2
1 26	5 40.76	- 0 48.2	1.280	2.082	20.1	21.4	1 26	5 49.36	+28 3.8	1.419	2.273	15.7	19.5
103719	2000 <i>CV</i> ₉₃	12 25.3 209°11	3°5/25.1 18				483561	2004 <i>BO</i> ₂₄	12 25.3 316°29	5°6/26.2 17			
11 17	6 49.14	+34 14.9	2.532	3.291	12.6	20.5	11 17	6 41.02	+ 8 37.7	1.600	2.383	17.8	21.2
11 27	6 43.36	+34 38.7	2.433	3.284	10.1	20.3	11 27	6 38.03	+ 8 34.6	1.501	2.363	14.7	21.0
12 7	6 35.11	+34 57.4	2.357	3.277	7.3	20.1	12 7	6 32.15	+ 8 47.5	1.422	2.342	11.0	20.7
12 17	6 24.95	+35 7.2	2.309	3.268	4.6	19.9	12 17	6 23.83	+ 9 18.9	1.366	2.323	7.4	20.4
12 27	6 13.82	+35 5.1	2.291	3.260	3.6	19.8	12 27	6 14.08	+10 9.3	1.336	2.304	5.7	20.3
1 6	6 2.84	+34 50.2	2.304	3.250	5.6	19.9	1 6	6 4.21	+11 16.3	1.332	2.285	8.0	20.4
1 16	5 53.11	+34 24.1	2.345	3.240	8.5	20.1	1 16	5 55.61	+12 35.7	1.355	2.267	12.1	20.6
1 26	5 45.50	+33 50.0	2.414	3.229	11.3	20.3	1 26	5 49.49	+14 2.3	1.401	2.250	16.2	20.8
15849	Billharper	12 25.3 187°68	1°0/25.3 18				110564	2001 <i>TY</i> ₁₁₀	12 25.3 63°01	1°0/25.3 18			
11 17	6 42.75	+20 0.9	2.387	3.161	12.8	19.4	11 17	6 44.52	+21 45.1	1.889	2.676	15.3	19.9
11 27	6 38.18	+19 59.7	2.296	3.161	10.1	19.3	11 27	6 40.03	+21 27.9	1.810	2.683	12.0	19.7
12 7	6 31.50	+20 1.4	2.228	3.161	6.9	19.1	12 7	6 32.96	+21 12.1	1.754	2.690	8.1	19.4
12 17	6 23.23	+20 5.3	2.188	3.160	3.3	18.8	12 17	6 23.97	+20 57.2	1.724	2.697	3.9	19.2
12 27	6 14.19	+20 10.7	2.177	3.159	1.2	18.7	12 27	6 14.11	+20 42.9	1.722	2.704	1.2	19.0
1 6	6 5.30	+20 16.9	2.197	3.158	4.5	18.9	1 6	6 4.58	+20 29.3	1.749	2.711	5.3	19.3
1 16	5 57.46	+20 23.8	2.246	3.156	8.0	19.1	1 16	5 56.49	+20 17.4	1.804	2.719	9.4	19.6
1 26	5 51.42	+20 31.4	2.321	3.155	11.1	19.3	1 26	5 50.69	+20 8.1	1.884	2.726	12.9	19.8
97331	1999 <i>XV</i> ₂₄₅	12 25.3 55°57	2°6/25.7 18				329417	2002 <i>MC</i> ₇	12 25.3 95°35	2°3/25.3 18			

EPHEMERIDES

12 25.3

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
508357	2016 <i>EV</i> ₈₅		12 25.3 294°68	21°1/18.8	17		36767	2000 <i>RG</i> ₉₂		12 25.3 211°22	3°1/25.3	18	
11 17	7 5.38	+55 31.4	1.127	1.884	25.2	20.5	11 17	6 48.32	+17 20.3	1.622	2.407	17.5	19.4
11 27	7 4.38	+59 4.9	1.070	1.874	23.3	20.3	11 27	6 43.56	+16 49.0	1.534	2.403	14.0	19.1
12 7	6 55.17	+62 23.1	1.029	1.863	21.8	20.2	12 7	6 35.70	+16 22.3	1.467	2.399	9.8	18.9
12 17	6 36.71	+65 1.7	1.006	1.853	21.1	20.1	12 17	6 25.40	+16 1.2	1.424	2.393	5.4	18.6
12 27	6 11.11	+66 35.3	1.000	1.843	21.5	20.1	12 27	6 13.84	+15 46.2	1.410	2.388	3.2	18.5
1 6	5 44.49	+66 51.8	1.010	1.833	22.8	20.1	1 6	6 2.48	+15 38.0	1.423	2.381	6.9	18.7
1 16	5 23.99	+65 59.1	1.035	1.824	24.7	20.2	1 16	5 52.73	+15 36.9	1.464	2.375	11.4	18.9
1 26	5 13.63	+64 19.3	1.073	1.815	26.8	20.4	1 26	5 45.69	+15 42.8	1.528	2.368	15.5	19.1
160244	2002 <i>NN</i> ₃₅		12 25.3 132°29	1°7/25.3	18		220785	2004 <i>TV</i> ₁₆₈		12 25.3 77°01	1°0/25.4	18	
11 17	6 42.58	+18 27.4	2.753	3.517	11.6	20.8	11 17	6 43.34	+19 56.9	2.115	2.896	14.1	20.5
11 27	6 37.61	+18 7.2	2.670	3.529	9.1	20.7	11 27	6 38.81	+19 59.2	2.039	2.907	11.0	20.4
12 7	6 30.88	+17 49.5	2.611	3.540	6.2	20.5	12 7	6 32.01	+20 5.0	1.985	2.919	7.5	20.2
12 17	6 22.90	+17 34.4	2.581	3.550	3.2	20.3	12 17	6 23.52	+20 13.5	1.958	2.931	3.6	19.9
12 27	6 14.36	+17 22.0	2.581	3.560	1.7	20.2	12 27	6 14.26	+20 23.6	1.961	2.943	1.2	19.8
1 6	6 6.05	+17 12.5	2.613	3.570	4.2	20.4	1 6	6 5.28	+20 34.3	1.993	2.954	4.8	20.1
1 16	5 58.68	+17 6.2	2.674	3.580	7.1	20.6	1 16	5 57.55	+20 45.4	2.053	2.966	8.5	20.3
1 26	5 52.87	+17 3.1	2.762	3.589	9.8	20.8	1 26	5 51.83	+20 56.7	2.139	2.978	11.7	20.5
136538	2006 <i>MN</i> ₃		12 25.3 131°37	2°5/25.7	18		342309	2008 <i>TZ</i> ₆₅		12 25.3 28°40	1°2/25.2	16	
11 17	6 45.67	+14 3.8	2.188	2.951	14.2	20.5	11 17	6 44.78	+25 43.2	1.208	2.029	20.3	20.9
11 27	6 40.51	+14 16.5	2.108	2.964	11.3	20.3	11 27	6 41.62	+25 49.6	1.150	2.041	15.9	20.6
12 7	6 33.10	+14 37.5	2.051	2.976	7.9	20.1	12 7	6 34.71	+25 55.9	1.111	2.054	10.8	20.4
12 17	6 24.01	+15 6.2	2.021	2.987	4.4	19.9	12 17	6 24.95	+25 59.0	1.094	2.069	5.1	20.1
12 27	6 14.13	+15 41.3	2.021	2.998	2.6	19.8	12 27	6 13.97	+25 56.0	1.102	2.084	1.6	19.9
1 6	6 4.46	+16 20.8	2.051	3.009	5.2	20.0	1 6	6 3.66	+25 46.6	1.135	2.100	6.9	20.3
1 16	5 55.98	+17 2.8	2.111	3.018	8.6	20.2	1 16	5 55.63	+25 32.5	1.193	2.118	12.1	20.6
1 26	5 49.46	+17 45.7	2.197	3.028	11.8	20.4	1 26	5 50.98	+25 16.8	1.272	2.136	16.5	21.0
330307	2006 <i>TM</i> ₁₂₄		12 25.3 124°65	0°8/25.2	18		335357	2005 <i>SJ</i> ₉₈		12 25.3 2°58	2°6/25.2	18	
11 17	6 50.85	+23 49.6	1.681	2.465	17.0	21.6	11 17	6 40.35	+21 16.1	1.071	1.906	21.4	19.8
11 27	6 45.39	+24 15.4	1.609	2.479	13.3	21.4	11 27	6 38.56	+20 26.7	1.005	1.904	16.9	19.5
12 7	6 36.80	+24 43.7	1.558	2.493	9.0	21.2	12 7	6 32.92	+19 38.1	0.956	1.903	11.7	19.2
12 17	6 25.83	+25 11.0	1.532	2.506	4.2	20.9	12 17	6 24.23	+18 52.0	0.929	1.903	5.9	18.9
12 27	6 13.75	+25 33.7	1.536	2.518	1.2	20.7	12 27	6 14.11	+18 10.8	0.925	1.906	2.9	18.7
1 6	6 2.07	+25 49.9	1.568	2.530	5.9	21.1	1 6	6 4.49	+17 37.0	0.944	1.910	8.0	19.0
1 16	5 52.18	+25 59.8	1.628	2.541	10.3	21.3	1 16	5 57.10	+17 12.8	0.987	1.915	13.6	19.4
1 26	5 45.10	+26 5.2	1.713	2.552	14.2	21.6	1 26	5 53.18	+16 59.0	1.049	1.922	18.4	19.7
178651	2000 <i>NS</i> ₄		12 25.3 148°26	4°0/26.0	18		78261	2002 <i>PC</i> ₁₉		12 25.3 72°60	4°1/25.9	18	
11 17	6 43.64	+ 9 16.0	2.442	3.191	13.3	20.7	11 17	6 40.83	+10 25.1	2.289	3.052	13.7	19.6
11 27	6 38.68	+ 9 16.7	2.358	3.200	10.8	20.6	11 27	6 36.68	+10 14.1	2.205	3.056	11.0	19.4
12 7	6 31.76	+ 9 27.5	2.296	3.208	7.9	20.4	12 7	6 30.50	+10 12.4	2.144	3.060	8.1	19.3
12 17	6 23.37	+ 9 48.8	2.261	3.215	5.2	20.2	12 17	6 22.82	+10 21.0	2.109	3.064	5.3	19.1
12 27	6 14.27	+10 20.4	2.256	3.222	4.0	20.2	12 27	6 14.41	+10 40.0	2.102	3.069	4.1	19.0
1 6	6 5.34	+11 0.8	2.282	3.228	5.6	20.3	1 6	6 6.17	+11 8.5	2.125	3.073	5.8	19.1
1 16	5 57.40	+11 48.0	2.337	3.234	8.4	20.5	1 16	5 58.94	+11 44.8	2.176	3.077	8.7	19.3
1 26	5 51.15	+12 39.5	2.418	3.240	11.1	20.7	1 26	5 53.45	+12 26.8	2.253	3.082	11.6	19.5
482237	2011 <i>FS</i> ₂₀		12 25.3 165°30	3°1/25.5	18		131527	2001 <i>UQ</i> ₅₂		12 25.3 100°04	0°1/25.3	18	
11 17	6 46.99	+14 58.4	1.859	2.633	16.0	22.3	11 17	6 50.95	+22 12.0	1.372	2.170	19.5	20.5
11 27	6 42.00	+14 46.6	1.776	2.638	12.8	22.1	11 27	6 46.01	+22 25.5	1.306	2.185	15.3	20.2
12 7	6 34.36	+14 42.3	1.714	2.641	9.0	21.9	12 7	6 37.49	+22 43.1	1.260	2.199	10.3	20.0
12 17	6 24.68	+14 45.8	1.678	2.644	5.1	21.7	12 17	6 26.22	+23 1.9	1.238	2.213	4.8	19.7
12 27	6 13.99	+14 57.0	1.671	2.647	3.2	21.5	12 27	6 13.71	+23 18.6	1.243	2.226	1.0	19.5
1 6	6 3.54	+15 14.7	1.693	2.649	6.2	21.7	1 6	6 1.74	+23 31.3	1.276	2.239	6.6	19.9
1 16	5 54.48	+15 38.0	1.742	2.651	10.1	22.0	1 16	5 51.91	+23 40.2	1.334	2.252	11.7	20.2
1 26	5 47.74	+16 5.5	1.817	2.652	13.7	22.2	1 26	5 45.35	+23 46.9	1.415	2.265	16.0	20.5
70722	1999 <i>VY</i>		12 25.3 14°09	6°4/24.9	18		405365	2003 <i>WG</i> ₁₃₂		12 25.3 354°40	4°1/24.4	18	
11 17	6 44.39	+34 5.9	1.243	2.060	20.1	18.9	11 17	6 44.90	+31 8.0	2.108	2.889	14.1	20.3
11 27	6 41.86	+35 8.4	1.181	2.065	16.2	18.7	11 27	6 40.65	+32 20.0	2.022	2.887	11.3	20.1
12 7	6 35.24	+36 5.2	1.138	2.071	11.8	18.5	12 7	6 33.66	+33 31.7	1.959	2.886	8.1	19.9
12 17	6 25.34	+36 48.0	1.116	2.078	7.8	18.3	12 17	6 24.47	+34 37.5	1.923	2.885	5.1	19.7
12 27	6 13.85	+37 9.2	1.119	2.087	6.5	18.2	12 27	6 14.08	+35 32.2	1.916	2.884	4.2	19.7
1 6	6 2.90	+37 6.4	1.146	2.097	9.3	18.4	1 6	6 3.73	+36 12.2	1.938	2.884	6.5	19.8
1 16	5 54.38	+36 42.8	1.197	2.108	13.4	18.7	1 16	5 54.67	+36 36.8	1.988	2.884	9.7	20.0
1 26	5 49.58	+36 5.3	1.268	2.120	17.3	19.0	1 26	5 47.95	+36 48.4	2.062	2.884	12.8	20.2
260994	2005 <i>SB</i> ₈₄		12 25.3 206°12	1°9/25.4	17		199660	2006 <i>GR</i> ₄₅		12 25.3 284°38	3°7/25.7	18	
11 17	6 43.37	+18 14.6	2.177	2.953	13.9	21.0	11 17	6 44.10	+14 0.2	1.630	2.417	17.3	19.9
11 27	6 38.87	+18 2.7	2.086	2.951	11.0	20.8	11 27	6 40.31	+13 50.0	1.540	2.409	13.9	19.6
12 7	6 32.09	+17 54.7	2.018	2.949	7.6	20.6	12 7	6 33.57	+13 49.5	1.471	2.401	10.0	19.4
12 17	6 23.59	+17 50.6	1.977	2.947	3.9	20.4	12 17	6 24.48	+13 59.7	1.426	2.392	5.8	19.1
12 27	6 14.22	+17 50.0	1.965	2.944	2.0	20.2	12 27	6 14.10	+14 20.5	1.408	2.384	3.8	19.0
1 6	6 5.02	+17 52.6	1.982	2.942	5.1	20.5	1 6	6 3.81	+14 50.4	1.418	2.376	6.9	19.2
1 16	5 56.96	+17 58.4	2.029	2.939	8.7	20.7	1 16	5 54.95	+15 27.5	1.454	2.368	11.3	19.4
1 26	5 50.86	+18 7.0	2.101	2.936	12.0	20.9	1 26	5 48.64	+16 9.5	1.514	2.360	15.3	19.6
100992	1998 <i>QD</i> ₃₇		12 25.3 74°55	1°2/25.3	18		329721	2003 <i>WG</i> ₁₀₉		12 25.3 38°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
491003	2011 <i>GL</i> ₂₆		12 25.3 229°94	2.4/25.3	18		33867	2000 <i>JO</i> ₁₈		12 25.3 86°92	3.6/25.2	18	
11 17	6 41.16	+16 32.9	2.545	3.314	12.3	21.4	11 17	6 54.37	+30 17.4	1.338	2.135	19.9	19.4
11 27	6 36.79	+16 7.9	2.451	3.310	9.7	21.2	11 27	6 48.95	+30 48.4	1.280	2.155	15.8	19.2
12 7	6 30.53	+15 46.4	2.380	3.307	6.8	21.0	12 7	6 39.56	+31 15.4	1.241	2.175	10.9	18.9
12 17	6 22.85	+15 29.1	2.337	3.303	3.8	20.8	12 17	6 27.21	+31 32.2	1.225	2.195	6.0	18.7
12 27	6 14.47	+15 16.5	2.323	3.299	2.5	20.7	12 27	6 13.62	+31 34.0	1.237	2.214	3.8	18.6
1 6	6 6.24	+15 8.9	2.340	3.295	4.8	20.8	1 6	6 0.84	+31 20.1	1.275	2.233	7.5	18.9
1 16	5 58.94	+15 6.3	2.386	3.291	7.9	21.0	1 16	5 50.57	+30 53.9	1.339	2.252	12.1	19.2
1 26	5 53.25	+15 8.7	2.458	3.287	10.7	21.2	1 26	5 43.95	+30 21.2	1.426	2.270	16.2	19.5
443949	2002 <i>XR</i> ₃₂		12 25.3 19°46	5.3/25.8	17		431740	2008 <i>FC</i> ₁₁₂		12 25.3 189°36	2.6/25.1	18	
11 17	6 48.20	+36 46.8	1.479	2.274	18.5	20.1	11 17	6 51.01	+28 57.0	1.940	2.715	15.4	22.7
11 27	6 44.08	+36 52.8	1.410	2.280	14.9	19.9	11 27	6 45.47	+29 27.5	1.850	2.714	12.2	22.4
12 7	6 36.26	+36 47.4	1.360	2.287	10.9	19.6	12 7	6 36.93	+29 56.6	1.783	2.713	8.5	22.2
12 17	6 25.66	+36 25.1	1.334	2.295	7.0	19.4	12 17	6 26.00	+30 20.0	1.742	2.711	4.5	22.0
12 27	6 13.91	+35 42.7	1.334	2.303	5.3	19.4	12 27	6 13.85	+30 33.7	1.730	2.708	2.7	21.8
1 6	6 2.85	+34 42.0	1.360	2.313	7.8	19.5	1 6	6 1.88	+30 36.1	1.748	2.705	6.0	22.0
1 16	5 54.08	+33 28.6	1.412	2.323	11.7	19.8	1 16	5 51.47	+30 28.2	1.795	2.701	10.0	22.3
1 26	5 48.65	+32 10.2	1.487	2.334	15.5	20.1	1 26	5 43.69	+30 12.9	1.866	2.696	13.6	22.5
445615	2011 <i>SB</i> ₁₄₇		12 25.3 104°92	1.4/25.4	18		267578	2002 <i>QG</i> ₁₀₆		12 25.3 201°71	6.7/24.8	17	
11 17	6 45.16	+19 25.0	1.806	2.592	15.9	21.8	11 17	6 49.12	+43 22.3	2.440	3.186	13.4	20.4
11 27	6 40.73	+19 21.4	1.725	2.596	12.6	21.6	11 27	6 43.87	+44 17.0	2.357	3.185	11.2	20.3
12 7	6 33.59	+19 22.2	1.666	2.600	8.6	21.4	12 7	6 35.77	+45 2.4	2.296	3.185	9.0	20.1
12 17	6 24.38	+19 26.7	1.632	2.604	4.2	21.1	12 17	6 25.43	+45 32.6	2.260	3.184	7.2	20.0
12 27	6 14.16	+19 33.9	1.627	2.608	1.6	20.9	12 27	6 13.97	+45 42.9	2.252	3.183	6.8	20.0
1 6	6 4.20	+19 42.9	1.650	2.612	5.6	21.2	1 6	6 2.75	+45 31.9	2.272	3.182	7.9	20.1
1 16	5 55.70	+19 53.4	1.701	2.616	9.8	21.5	1 16	5 53.04	+45 1.7	2.319	3.181	10.0	20.2
1 26	5 49.58	+20 5.2	1.777	2.620	13.5	21.7	1 26	5 45.84	+44 16.9	2.390	3.180	12.2	20.3
437047	2012 <i>UJ</i> ₉		12 25.3 89°27	0.7/25.2	18		508798	2000 <i>QB</i> ₁₄₉		12 25.3 84°85	3.4/25.4	18	
11 17	6 50.93	+24 4.9	1.699	2.483	16.9	21.1	11 17	6 56.97	+31 16.9	1.401	2.190	19.6	21.4
11 27	6 45.21	+24 25.1	1.638	2.509	13.2	20.9	11 27	6 50.58	+31 31.2	1.348	2.218	15.5	21.2
12 7	6 36.51	+24 46.7	1.599	2.534	8.8	20.7	12 7	6 40.39	+31 39.5	1.314	2.246	10.7	21.0
12 17	6 25.65	+25 6.6	1.586	2.560	4.1	20.5	12 17	6 27.49	+31 36.1	1.304	2.273	5.8	20.8
12 27	6 13.92	+25 21.8	1.602	2.584	1.1	20.4	12 27	6 13.62	+31 17.9	1.322	2.300	3.5	20.8
1 6	6 2.76	+25 31.1	1.646	2.608	5.6	20.7	1 6	6 0.74	+30 45.7	1.368	2.326	7.1	21.0
1 16	5 53.43	+25 35.1	1.719	2.632	9.9	21.0	1 16	5 50.43	+30 4.0	1.440	2.351	11.5	21.4
1 26	5 46.84	+25 35.6	1.816	2.655	13.5	21.3	1 26	5 43.67	+29 19.0	1.536	2.376	15.4	21.7
5416	Estremadoyro		12 25.3 72°79	2.1/25.0	18		150728	2001 <i>QK</i> ₃₉		12 25.3 62°51	1.1/25.4	18	
11 17	6 48.25	+26 48.6	1.884	2.666	15.5	17.3	11 17	6 48.37	+20 25.2	1.379	2.180	19.2	20.2
11 27	6 43.01	+27 31.5	1.822	2.691	12.1	17.1	11 27	6 43.78	+20 27.0	1.321	2.201	15.1	20.0
12 7	6 35.00	+28 14.3	1.782	2.716	8.2	16.9	12 7	6 35.84	+20 34.1	1.284	2.222	10.2	19.7
12 17	6 24.97	+28 52.9	1.769	2.740	4.2	16.7	12 17	6 25.44	+20 44.5	1.270	2.243	4.8	19.5
12 27	6 14.06	+29 23.5	1.785	2.764	2.3	16.6	12 27	6 14.02	+20 56.2	1.282	2.265	1.4	19.3
1 6	6 3.60	+29 44.2	1.830	2.789	5.6	16.9	1 6	6 3.25	+21 7.9	1.323	2.286	6.4	19.7
1 16	5 54.75	+29 55.4	1.904	2.812	9.3	17.2	1 16	5 54.53	+21 19.3	1.389	2.308	11.2	20.0
1 26	5 48.41	+29 59.2	2.002	2.836	12.6	17.4	1 26	5 48.85	+21 30.8	1.478	2.330	15.3	20.3
447507	2006 <i>SK</i> ₄₉		12 25.3 1°64	16.0/26.0	18		213971	2003 <i>YG</i> ₁₃₈		12 25.3 349°32	0.7/25.2	18	
11 17	6 39.44	-12 22.7	1.639	2.337	20.6	20.0	11 17	6 44.00	+23 1.6	1.643	2.442	16.7	20.2
11 27	6 36.43	-14 27.4	1.578	2.336	18.9	19.9	11 27	6 40.35	+23 30.5	1.560	2.439	13.2	20.0
12 7	6 30.79	-16 6.4	1.535	2.336	17.4	19.8	12 7	6 33.67	+24 3.7	1.498	2.437	9.0	19.7
12 17	6 23.11	-17 10.7	1.509	2.336	16.4	19.7	12 17	6 24.56	+24 38.1	1.460	2.435	4.2	19.4
12 27	6 14.43	-17 33.3	1.503	2.337	16.0	19.7	12 27	6 14.18	+25 10.3	1.450	2.433	1.1	19.2
1 6	6 5.96	-17 12.6	1.517	2.338	16.5	19.7	1 6	6 3.96	+25 37.5	1.468	2.432	5.9	19.5
1 16	5 58.86	-16 12.1	1.550	2.341	17.7	19.8	1 16	5 55.30	+25 58.8	1.513	2.431	10.6	19.8
1 26	5 54.07	-14 39.2	1.601	2.344	19.2	19.9	1 26	5 49.31	+26 15.0	1.581	2.430	14.6	20.0
276170	2002 <i>ON</i> ₃₄		12 25.3 276°66	0.4/25.3	18		206116	2002 <i>RO</i> ₂₄₆		12 25.3 6°10	11.7/27.9	18	
11 17	6 43.69	+25 42.3	2.328	3.106	13.0	20.7	11 17	6 42.07	- 7 3.3	1.772	2.485	18.8	20.2
11 27	6 39.07	+25 27.4	2.235	3.102	10.2	20.5	11 27	6 38.27	- 7 50.7	1.698	2.485	16.6	20.0
12 7	6 32.20	+25 10.5	2.164	3.098	6.9	20.2	12 7	6 31.93	- 8 14.3	1.641	2.486	14.4	19.9
12 17	6 23.67	+24 50.8	2.121	3.094	3.2	20.0	12 17	6 23.64	- 8 8.3	1.604	2.486	12.6	19.8
12 27	6 14.33	+24 27.6	2.107	3.090	0.8	19.8	12 27	6 14.38	- 7 29.1	1.591	2.487	11.7	19.7
1 6	6 5.20	+24 1.4	2.123	3.086	4.5	20.1	1 6	6 5.31	- 6 17.9	1.603	2.488	12.3	19.7
1 16	5 57.23	+23 33.6	2.169	3.081	8.2	20.3	1 16	5 57.53	- 4 39.4	1.638	2.489	14.0	19.9
1 26	5 51.20	+23 6.1	2.241	3.077	11.4	20.5	1 26	5 51.94	- 2 41.5	1.697	2.491	16.3	20.0
340228	2006 <i>BZ</i> ₆₅		12 25.3 59°48	3.2/25.2	18		439068	2011 <i>JM</i> ₉		12 25.3 195°57	1.2/25.1	18	
11 17	6 49.04	+30 11.8	1.493	2.291	18.2	20.8	11 17	6 49.55	+24 0.9	2.158	2.928	14.2	22.0
11 27	6 44.49	+30 33.7	1.427	2.303	14.4	20.6	11 27	6 44.02	+24 43.9	2.063	2.925	11.2	21.8
12 7	6 36.45	+30 51.9	1.380	2.315	10.0	20.4	12 7	6 35.82	+25 30.3	1.990	2.922	7.6	21.6
12 17	6 25.77	+31 1.3	1.358	2.328	5.4	20.1	12 17	6 25.49	+26 16.6	1.945	2.918	3.7	21.3
12 27	6 13.90	+30 58.4	1.363	2.341	3.3	20.0	12 27	6 13.99	+26 58.9	1.931	2.913	1.4	21.1
1 6	6 2.61	+30 42.5	1.395	2.354	6.9	20.3	1 6	6 2.53	+27 34.4	1.948	2.907	5.2	21.4
1 16	5 53.41	+30 16.3	1.453	2.367	11.3	20.6	1 16	5 52.30	+28 2.1	1.994	2.901	9.1	21.6
1 26	5 47.38	+29 44.6	1.534	2.380	15.1	20.8	1 26	5 44.31	+28 22.8	2.067	2.893	12.5	21.8
331299	2011 <i>EM</i> ₂₀		12 25.3 53°39	2.4/25.7	17		459431	2012 <i>TG</i> ₅		12 25.3 348°75			

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
283348	1999 <i>VH</i> ₅₁		12 25.3	49°08'	4.4/25.1	17	266863	2009 <i>UH</i> ₁₃₃		12 25.3	137°66'	3.6/25.2	17
11 17	6 48.62	+17 5.8	1.400	2.195	19.3	19.7	11 17	6 47.24	+34 42.4	2.486	3.249	12.7	21.0
11 27	6 43.53	+15 50.8	1.350	2.223	15.2	19.5	11 27	6 41.84	+35 2.7	2.403	3.256	10.2	20.8
12 7	6 35.37	+14 41.0	1.320	2.251	10.7	19.3	12 7	6 34.07	+35 17.2	2.343	3.263	7.3	20.7
12 17	6 25.10	+13 39.5	1.314	2.280	6.2	19.2	12 17	6 24.56	+35 22.4	2.311	3.269	4.6	20.5
12 27	6 14.14	+12 49.5	1.336	2.309	4.6	19.1	12 27	6 14.26	+35 15.8	2.308	3.276	3.6	20.4
1 6	6 3.97	+12 13.3	1.384	2.338	7.6	19.4	1 6	6 4.25	+34 57.2	2.335	3.282	5.5	20.6
1 16	5 55.84	+11 51.4	1.459	2.368	11.6	19.7	1 16	5 55.55	+34 28.2	2.391	3.288	8.3	20.8
1 26	5 50.55	+11 42.8	1.556	2.397	15.2	20.0	1 26	5 48.95	+33 52.2	2.473	3.293	11.0	20.9
235267	2003 <i>TU</i> ₁₁		12 25.3	88°55'	3.0/25.0	17	55842	1996 <i>PU</i>		12 25.3	196°56'	3.6/25.3	18
11 17	6 45.12	+31 11.6	2.290	3.065	13.3	20.2	11 17	6 52.17	+34 0.2	2.260	3.021	13.9	20.4
11 27	6 40.36	+31 43.3	2.209	3.072	10.5	20.0	11 27	6 46.04	+34 18.8	2.165	3.017	11.2	20.2
12 7	6 33.18	+32 12.0	2.152	3.079	7.4	19.8	12 7	6 37.12	+34 31.7	2.093	3.014	8.0	20.0
12 17	6 24.17	+32 34.1	2.121	3.086	4.3	19.7	12 17	6 26.07	+34 34.5	2.048	3.009	4.9	19.8
12 27	6 14.29	+32 46.6	2.120	3.094	3.1	19.6	12 27	6 13.95	+34 24.0	2.033	3.004	3.7	19.7
1 6	6 4.65	+32 48.3	2.148	3.101	5.4	19.8	1 6	6 2.09	+33 59.7	2.048	2.997	5.9	19.8
1 16	5 56.30	+32 40.3	2.205	3.108	8.6	20.0	1 16	5 51.68	+33 23.8	2.093	2.990	9.2	20.0
1 26	5 50.07	+32 25.0	2.287	3.114	11.5	20.2	1 26	5 43.72	+32 40.4	2.163	2.982	12.3	20.2
342765	2008 <i>WB</i> ₉₇		12 25.3	90°89'	0.8/25.4	18	153483	2001 <i>RK</i> ₇₆		12 25.3	47°47'	4.3/25.8	18
11 17	6 47.86	+19 47.9	1.702	2.488	16.8	21.3	11 17	6 45.94	+13 49.4	1.272	2.075	20.5	18.7
11 27	6 42.90	+20 5.5	1.634	2.505	13.1	21.1	11 27	6 41.97	+13 33.8	1.219	2.096	16.3	18.5
12 7	6 35.06	+20 28.7	1.587	2.522	8.9	20.9	12 7	6 34.67	+13 30.4	1.185	2.118	11.5	18.3
12 17	6 25.08	+20 55.4	1.566	2.539	4.2	20.7	12 17	6 24.94	+13 40.0	1.174	2.141	6.6	18.1
12 27	6 14.12	+21 23.0	1.572	2.555	1.1	20.5	12 27	6 14.22	+14 1.7	1.188	2.164	4.3	18.0
1 6	6 3.56	+21 49.5	1.608	2.571	5.6	20.8	1 6	6 4.14	+14 33.4	1.229	2.188	7.6	18.3
1 16	5 54.65	+22 13.8	1.672	2.587	10.0	21.1	1 16	5 56.11	+15 12.0	1.294	2.212	12.0	18.6
1 26	5 48.32	+22 36.0	1.760	2.603	13.7	21.4	1 26	5 51.09	+15 54.8	1.382	2.236	16.0	18.9
53607	2000 <i>CV</i> ₈₁		12 25.3	312°15'	1°1/25.2	18	294420	2007 <i>VG</i> ₂₂₀		12 25.3	303°85'	0°3/25.3	18
11 17	6 44.61	+24 43.5	1.362	2.174	18.9	19.0	11 17	6 44.37	+22 36.6	1.781	2.573	15.9	21.3
11 27	6 41.69	+24 58.7	1.272	2.159	15.0	18.7	11 27	6 40.39	+22 34.8	1.691	2.567	12.5	21.0
12 7	6 35.11	+25 16.4	1.202	2.144	10.3	18.4	12 7	6 33.56	+22 34.9	1.623	2.560	8.5	20.8
12 17	6 25.44	+25 33.3	1.154	2.129	5.0	18.1	12 17	6 24.50	+22 35.5	1.579	2.553	4.0	20.5
12 27	6 14.00	+25 45.8	1.132	2.114	1.5	17.8	12 27	6 14.28	+22 35.2	1.564	2.547	0.9	20.2
1 6	6 2.59	+25 51.6	1.136	2.101	7.0	18.1	1 6	6 4.23	+22 33.4	1.577	2.541	5.6	20.6
1 16	5 53.02	+25 51.0	1.165	2.087	12.5	18.4	1 16	5 55.61	+22 30.4	1.617	2.535	10.1	20.8
1 26	5 46.73	+25 46.4	1.215	2.075	17.4	18.6	1 26	5 49.46	+22 27.4	1.682	2.529	14.0	21.0
285654	2000 <i>SX</i> ₄₃		12 25.3	195°09'	11°7/26.3	18	420218	2011 <i>HW</i> ₅		12 25.3	290°12'	3°3/24.8	18
11 17	7 4.89	+47 47.7	1.347	2.106	21.7	20.2	11 17	6 44.48	+31 1.1	2.312	3.088	13.2	21.0
11 27	6 59.03	+48 45.6	1.274	2.105	18.7	20.0	11 27	6 40.22	+31 46.5	2.204	3.067	10.5	20.8
12 7	6 47.47	+49 25.0	1.218	2.104	15.5	19.8	12 7	6 33.39	+32 31.1	2.118	3.045	7.5	20.6
12 17	6 31.25	+49 31.7	1.182	2.102	12.7	19.6	12 17	6 24.45	+33 10.6	2.060	3.024	4.5	20.4
12 27	6 12.86	+48 54.6	1.170	2.100	11.7	19.6	12 27	6 14.28	+33 41.0	2.030	3.002	3.4	20.3
1 6	5 55.52	+47 32.9	1.183	2.098	13.1	19.6	1 6	6 4.02	+33 59.8	2.030	2.981	5.9	20.4
1 16	5 41.96	+45 36.6	1.218	2.095	16.1	19.8	1 16	5 54.85	+34 6.6	2.059	2.959	9.2	20.5
1 26	5 33.69	+43 21.8	1.276	2.092	19.4	20.0	1 26	5 47.77	+34 3.4	2.112	2.937	12.4	20.7
176690	2002 <i>PQ</i> ₁₃₆		12 25.3	77°43'	0°2/25.3	18	116096	2003 <i>WE</i> ₁₂₇		12 25.3	264°19'	1°0/25.2	18
11 17	6 46.43	+22 14.3	1.770	2.559	16.1	20.8	11 17	6 42.58	+25 26.5	2.526	3.301	12.2	19.5
11 27	6 41.71	+22 20.3	1.700	2.573	12.6	20.6	11 27	6 38.22	+25 49.4	2.425	3.291	9.6	19.3
12 7	6 34.22	+22 28.8	1.652	2.588	8.5	20.3	12 7	6 31.72	+26 13.1	2.347	3.280	6.5	19.1
12 17	6 24.68	+22 38.1	1.629	2.603	4.0	20.1	12 17	6 23.55	+26 35.5	2.297	3.269	3.2	18.9
12 27	6 14.22	+22 46.3	1.635	2.618	0.8	19.9	12 27	6 14.49	+26 54.5	2.277	3.258	1.2	18.7
1 6	6 4.17	+22 52.5	1.669	2.632	5.4	20.3	1 6	6 5.47	+27 8.6	2.287	3.247	4.4	18.9
1 16	5 55.70	+22 56.8	1.731	2.647	9.6	20.5	1 16	5 57.42	+27 17.5	2.326	3.236	7.8	19.1
1 26	5 49.71	+23 0.2	1.818	2.661	13.3	20.8	1 26	5 51.14	+27 22.3	2.392	3.225	10.9	19.3
420127	2011 <i>FS</i> ₄₂		12 25.3	220°83'	2°1/25.1	18	60647	2000 <i>FA</i> ₄₀		12 25.3	182°86'	0°7/25.2	18
11 17	6 43.53	+29 17.0	2.667	3.437	11.7	21.4	11 17	6 48.94	+23 47.3	2.018	2.793	14.8	20.3
11 27	6 38.84	+29 44.0	2.571	3.432	9.3	21.2	11 27	6 43.61	+24 9.4	1.928	2.794	11.7	20.1
12 7	6 32.05	+30 9.5	2.499	3.427	6.4	21.1	12 7	6 35.56	+24 33.7	1.861	2.794	7.9	19.8
12 17	6 23.65	+30 30.8	2.454	3.422	3.5	20.9	12 17	6 25.39	+24 57.4	1.821	2.794	3.7	19.6
12 27	6 14.42	+30 45.4	2.440	3.417	2.2	20.8	12 27	6 14.12	+25 17.7	1.810	2.793	1.0	19.4
1 6	6 5.29	+30 52.3	2.456	3.412	4.6	20.9	1 6	6 3.01	+25 32.9	1.830	2.791	5.3	19.7
1 16	5 57.16	+30 51.6	2.502	3.406	7.6	21.1	1 16	5 53.27	+25 42.9	1.878	2.789	9.3	19.9
1 26	5 50.79	+30 44.9	2.574	3.400	10.4	21.3	1 26	5 45.88	+25 48.8	1.952	2.786	12.9	20.1
460681	2014 <i>US</i> ₁₇₆		12 25.3	15°25'	1.8/25.0	17	92814	2000 <i>QZ</i> ₁₇₁		12 25.3	45°82'	10°7/26.7	18
11 17	6 43.34	+26 19.8	2.144	2.928	13.8	20.8	11 17	6 43.21	+ 0 46.0	1.415	2.180	20.6	19.8
11 27	6 39.14	+26 59.6	2.059	2.929	10.9	20.6	11 27	6 39.50	- 0 26.3	1.360	2.195	17.5	19.6
12 7	6 32.48	+27 40.6	1.996	2.930	7.4	20.4	12 7	6 32.87	- 1 17.3	1.323	2.211	14.3	19.4
12 17	6 23.91	+28 19.4	1.961	2.932	3.7	20.1	12 17	6 24.10	- 1 41.1	1.307	2.228	11.7	19.3
12 27	6 14.37	+28 52.8	1.954	2.934	2.0	20.0	12 27	6 14.41	- 1 33.9	1.315	2.245	10.7	19.3
1 6	6 4.96	+29 18.5	1.977	2.936	5.2	20.2	1 6	6 5.18	- 0 56.9	1.346	2.262	11.8	19.4
1 16	5 56.77	+29 36.1	2.029	2.938	8.8	20.5	1 16	5 57.65	+ 0 5.3	1.401	2.280	14.2	19.6
1 26	5 50.70	+29 46.7	2.105	2.941	12.0	20.7	1 26	5 52.73	+ 1 25.3	1.478	2.298	17.0	19.9
489204	2006 <i>JP</i> ₁₁		12 25.3	184°56'	3.4/25.6	18	184516	2005 <i>QM</i> ₇		12			

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
437522	2013 YG ₁₀₄	12 25.3	17°86'	0°5'/25.4	18		104979	2000 JN ₆₉	12 25.3	242°97'	6°9'/26.2	18	
11 17	6 45.68	+18 19.4	1.325	2.132	19.6	20.3	11 17	6 39.77	- 0 51.6	2.821	3.532	12.5	19.8
11 27	6 42.29	+19 8.7	1.251	2.134	15.5	20.1	11 27	6 35.59	- 1 25.6	2.722	3.520	10.8	19.7
12 7	6 35.35	+20 10.3	1.196	2.137	10.6	19.8	12 7	6 29.73	- 1 47.1	2.645	3.508	8.9	19.5
12 17	6 25.50	+21 20.7	1.165	2.140	5.0	19.5	12 17	6 22.59	- 1 53.5	2.593	3.496	7.4	19.4
12 27	6 14.11	+22 34.2	1.161	2.144	1.1	19.2	12 27	6 14.79	- 1 43.0	2.568	3.483	6.9	19.4
1 6	6 2.91	+23 44.7	1.183	2.148	6.8	19.6	1 6	6 7.02	- 1 15.4	2.572	3.471	7.6	19.4
1 16	5 53.62	+24 48.2	1.231	2.153	12.1	19.9	1 16	5 59.98	- 0 32.2	2.603	3.457	9.3	19.5
1 26	5 47.51	+25 43.3	1.301	2.158	16.6	20.2	1 26	5 54.30	+ 0 23.7	2.659	3.444	11.3	19.6
276797	2004 OW ₅	12 25.3	60°90'	4°4'/25.3	18		495935	2006 JQ ₁₁	12 25.3	234°89'	0°4'/25.3	18	
11 17	6 53.60	+32 26.6	1.406	2.199	19.3	19.9	11 17	6 42.82	+23 0.3	2.641	3.412	11.8	22.1
11 27	6 48.06	+33 0.2	1.357	2.229	15.3	19.7	11 27	6 38.27	+23 25.5	2.540	3.404	9.3	21.9
12 7	6 38.78	+33 27.4	1.329	2.259	10.7	19.6	12 7	6 31.71	+23 53.0	2.463	3.395	6.3	21.7
12 17	6 26.82	+33 42.0	1.324	2.289	6.3	19.4	12 17	6 23.57	+24 21.1	2.414	3.387	3.0	21.5
12 27	6 13.91	+33 39.5	1.345	2.319	4.5	19.4	12 27	6 14.59	+24 47.7	2.395	3.378	0.7	21.3
1 6	6 1.92	+33 20.3	1.394	2.349	7.5	19.6	1 6	6 5.65	+25 11.3	2.408	3.369	4.2	21.5
1 16	5 52.41	+32 48.2	1.469	2.379	11.5	19.9	1 16	5 57.60	+25 31.3	2.450	3.360	7.5	21.7
1 26	5 46.34	+32 9.4	1.567	2.408	15.1	20.2	1 26	5 51.22	+25 47.8	2.519	3.350	10.4	21.9
326587	2002 QD ₁₀₇	12 25.3	97°61'	3°8'/25.9	18		305974	2009 HS ₈₅	12 25.3	300°34'	5°8'/25.5	17	
11 17	6 41.59	+10 6.8	2.462	3.218	13.0	21.0	11 17	6 42.17	+10 29.6	1.753	2.531	16.6	21.0
11 27	6 37.10	+ 9 59.9	2.385	3.231	10.5	20.8	11 27	6 38.61	+ 9 46.1	1.659	2.518	13.7	20.8
12 7	6 30.73	+10 1.9	2.330	3.244	7.7	20.6	12 7	6 32.38	+ 9 11.8	1.585	2.504	10.3	20.6
12 17	6 23.01	+10 13.7	2.302	3.256	5.0	20.5	12 17	6 24.02	+ 8 49.7	1.536	2.491	7.0	20.3
12 27	6 14.66	+10 35.0	2.303	3.269	3.9	20.4	12 27	6 14.50	+ 8 42.4	1.514	2.477	5.8	20.2
1 6	6 6.51	+11 4.9	2.334	3.281	5.5	20.6	1 6	6 5.02	+ 8 50.3	1.518	2.464	8.0	20.3
1 16	5 59.34	+11 41.6	2.394	3.293	8.1	20.8	1 16	5 56.81	+ 9 12.7	1.549	2.451	11.5	20.5
1 26	5 53.80	+12 23.3	2.481	3.305	10.8	20.9	1 26	5 50.87	+ 9 47.0	1.603	2.439	15.1	20.7
367639	2009 WY ₂₃	12 25.3	4°86'	3°6'/25.5	17		281926	2011 FW ₁₃	12 25.3	204°95'	6°8'/25.8	18	
11 17	6 46.74	+34 22.9	2.067	2.844	14.5	20.3	11 17	6 39.49	- 0 49.5	2.932	3.641	12.1	22.3
11 27	6 41.95	+34 27.9	1.982	2.844	11.6	20.1	11 27	6 35.24	- 1 36.9	2.841	3.637	10.4	22.1
12 7	6 34.42	+34 25.8	1.919	2.844	8.3	19.9	12 7	6 29.42	- 2 12.9	2.773	3.633	8.7	22.0
12 17	6 24.82	+34 12.9	1.882	2.844	5.1	19.7	12 17	6 22.42	- 2 34.6	2.730	3.629	7.3	21.9
12 27	6 14.29	+33 47.0	1.873	2.845	3.7	19.6	12 27	6 14.84	- 2 40.2	2.715	3.624	6.9	21.9
1 6	6 4.12	+33 8.4	1.893	2.846	6.0	19.7	1 6	6 7.34	- 2 29.0	2.728	3.619	7.6	21.9
1 16	5 55.48	+32 20.0	1.941	2.847	9.4	19.9	1 16	6 0.58	- 2 2.3	2.768	3.614	9.1	22.0
1 26	5 49.29	+31 26.2	2.015	2.848	12.6	20.1	1 26	5 55.13	- 1 22.4	2.833	3.609	10.9	22.1
143889	2003 YR ₄₀	12 25.3	156°64'	0°3'/25.4	18		520367	2014 HS ₂₀₂	12 25.3	239°92'	0°4'/25.4	18	
11 17	6 45.66	+21 34.0	2.046	2.825	14.5	20.8	11 17	6 46.42	+19 14.1	1.906	2.687	15.4	21.8
11 27	6 40.92	+21 46.7	1.960	2.829	11.4	20.6	11 27	6 41.91	+19 52.2	1.811	2.679	12.2	21.6
12 7	6 33.66	+22 2.7	1.898	2.832	7.7	20.4	12 7	6 34.62	+20 38.1	1.738	2.672	8.3	21.3
12 17	6 24.49	+22 20.1	1.861	2.835	3.6	20.2	12 17	6 25.09	+21 29.5	1.691	2.664	4.0	21.0
12 27	6 14.35	+22 37.1	1.854	2.837	0.8	19.9	12 27	6 14.29	+22 22.9	1.674	2.656	0.9	20.8
1 6	6 4.42	+22 52.3	1.877	2.840	5.0	20.3	1 6	6 3.48	+23 14.8	1.686	2.648	5.4	21.1
1 16	5 55.77	+23 5.3	1.929	2.842	9.0	20.5	1 16	5 53.93	+24 2.7	1.726	2.640	9.8	21.3
1 26	5 49.30	+23 16.6	2.006	2.844	12.4	20.7	1 26	5 46.71	+24 45.8	1.792	2.631	13.6	21.6
441018	2007 EO ₁₃₁	12 25.3	216°59'	0°6'/25.3	18		316314	2010 RK ₉₀	12 25.3	166°91'	5°3'/25.3	18	
11 17	6 48.38	+24 24.5	1.934	2.714	15.2	22.3	11 17	6 43.80	+ 9 54.7	2.209	2.966	14.3	21.0
11 27	6 43.38	+24 35.2	1.839	2.707	12.1	22.1	11 27	6 39.09	+ 9 0.5	2.124	2.969	11.7	20.8
12 7	6 35.54	+24 46.9	1.766	2.700	8.2	21.9	12 7	6 32.24	+ 8 13.6	2.061	2.971	8.8	20.6
12 17	6 25.45	+24 57.4	1.719	2.693	3.9	21.6	12 17	6 23.80	+ 7 36.7	2.025	2.973	6.2	20.5
12 27	6 14.16	+25 4.1	1.702	2.684	1.0	21.4	12 27	6 14.60	+ 7 12.1	2.018	2.974	5.3	20.4
1 6	6 2.99	+25 5.9	1.714	2.676	5.5	21.7	1 6	6 5.60	+ 7 0.8	2.039	2.976	7.0	20.5
1 16	5 53.21	+25 3.3	1.754	2.666	9.8	21.9	1 16	5 57.71	+ 7 2.4	2.089	2.977	9.7	20.7
1 26	5 45.88	+24 57.9	1.819	2.656	13.5	22.1	1 26	5 51.66	+ 7 15.5	2.163	2.978	12.5	20.9
359317	2009 JK ₇	12 25.3	184°85'	0°4'/25.4	18		203190	2001 CT ₁₂	12 25.3	334°91'	0°2'/25.3	18	
11 17	6 45.30	+21 53.3	2.464	3.233	12.6	22.6	11 17	6 41.16	+21 45.0	1.344	2.161	18.8	19.5
11 27	6 40.20	+21 56.7	2.371	3.233	9.9	22.4	11 27	6 38.96	+22 10.9	1.256	2.146	14.9	19.2
12 7	6 32.96	+22 1.9	2.301	3.233	6.7	22.2	12 7	6 33.28	+22 43.9	1.188	2.132	10.2	18.9
12 17	6 24.11	+22 7.7	2.259	3.232	3.2	21.9	12 17	6 24.68	+23 21.3	1.143	2.119	4.8	18.5
12 27	6 14.46	+22 12.9	2.248	3.231	0.7	21.7	12 27	6 14.38	+23 59.2	1.123	2.106	1.0	18.2
1 6	6 4.95	+22 16.9	2.267	3.229	4.4	22.0	1 6	6 4.09	+24 34.1	1.129	2.095	6.8	18.6
1 16	5 56.50	+22 19.7	2.316	3.226	7.9	22.2	1 16	5 55.53	+25 4.1	1.160	2.085	12.3	18.9
1 26	5 49.87	+22 21.9	2.392	3.223	10.9	22.4	1 26	5 50.09	+25 29.0	1.212	2.076	17.1	19.1
164005	2003 US ₁₈₅	12 25.3	158°02'	2°0'/25.5	18		44196	1998 ML ₉	12 25.3	107°20'	4°2'/25.8	18	
11 17	6 45.39	+18 6.0	1.919	2.700	15.3	20.3	11 17	6 47.87	+12 55.6	1.605	2.385	17.9	19.0
11 27	6 40.79	+17 57.0	1.835	2.702	12.1	20.1	11 27	6 43.01	+12 40.0	1.536	2.398	14.3	18.8
12 7	6 33.63	+17 52.8	1.773	2.705	8.4	19.9	12 7	6 35.24	+12 34.8	1.487	2.412	10.3	18.6
12 17	6 24.50	+17 53.3	1.736	2.707	4.3	19.6	12 17	6 25.28	+12 41.2	1.462	2.425	6.1	18.4
12 27	6 14.40	+17 57.8	1.729	2.709	2.1	19.5	12 27	6 14.32	+12 58.7	1.465	2.438	4.2	18.3
1 6	6 4.53	+18 5.7	1.750	2.711	5.5	19.7	1 6	6 3.74	+13 25.9	1.495	2.450	7.0	18.5
1 16	5 56.00	+18 16.6	1.800	2.712	9.5	20.0	1 16	5 54.82	+14 0.8	1.553	2.463	11.0	18.8
1 26	5 49.70	+18 30.2	1.874	2.713	13.1	20.2	1 26	5 48.50	+14 40.8	1.635	2.474	14.7	19.1
165057	2000 EF ₉₆	12 25.3	273°19'	3°5'/25.7	18		193214	2000 QB ₂₃₀	12 25.3	90°58'	0°9'/25.3	16	
11 17	6 40.79	+12 30.4	2.384										

EPHEMERIDES

12 25.3

12 25.4

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
164032	2003 <i>UR</i> ₂₄₉		12 25.3	85°24	0°4/25.4	18	277226	2005 <i>QK</i> ₁₆₇		12 25.4	38°60	8°9/25.4	18
11 17	6 48.39	+21 19.4	1.812	2.594	16.0	20.3	11 17	6 46.12	+10 5.6	1.093	1.901	22.8	19.5
11 27	6 43.11	+21 31.7	1.747	2.617	12.5	20.1	11 27	6 42.33	+8 19.7	1.051	1.924	18.6	19.3
12 7	6 35.13	+21 47.5	1.705	2.640	8.4	19.9	12 7	6 35.00	+6 48.7	1.027	1.949	14.1	19.1
12 17	6 25.18	+22 4.6	1.689	2.662	3.9	19.7	12 17	6 25.18	+5 39.7	1.025	1.975	10.2	19.0
12 27	6 14.40	+22 21.1	1.702	2.685	0.8	19.5	12 27	6 14.49	+4 58.2	1.045	2.002	9.0	19.0
1 6	6 4.09	+22 35.5	1.744	2.707	5.3	19.9	1 6	6 4.67	+4 45.2	1.090	2.030	11.1	19.2
1 16	5 55.37	+22 47.7	1.815	2.729	9.4	20.2	1 16	5 57.13	+4 57.9	1.157	2.058	14.6	19.5
1 26	5 49.12	+22 58.2	1.910	2.750	12.9	20.5	1 26	5 52.78	+5 30.3	1.244	2.087	18.1	19.8
195721	2002 <i>PG</i> ₆₁		12 25.3	69°52	10°5/25.9	17	514175	2015 <i>MK</i> ₄₇		12 25.4	191°64	1°3/25.3	18
11 17	7 0.07	+56 32.2	2.399	3.086	15.0	20.0	11 17	6 48.92	+26 5.9	2.054	2.829	14.6	22.3
11 27	6 53.40	+57 33.2	2.331	3.092	13.4	19.9	11 27	6 43.65	+26 24.7	1.962	2.828	11.5	22.1
12 7	6 42.67	+58 17.0	2.283	3.098	11.9	19.8	12 7	6 35.67	+26 43.7	1.894	2.826	7.9	21.9
12 17	6 28.84	+58 35.4	2.256	3.104	10.8	19.7	12 17	6 25.56	+26 59.8	1.852	2.824	3.9	21.6
12 27	6 13.68	+58 22.6	2.254	3.111	10.5	19.7	12 27	6 14.37	+27 10.3	1.839	2.821	1.5	21.5
1 6	5 59.28	+57 38.0	2.277	3.117	11.0	19.7	1 6	6 3.33	+27 13.9	1.857	2.817	5.3	21.7
1 16	5 47.45	+56 26.0	2.324	3.123	12.2	19.8	1 16	5 53.67	+27 11.1	1.903	2.813	9.3	22.0
1 26	5 39.34	+54 54.5	2.393	3.130	13.7	20.0	1 26	5 46.34	+27 3.9	1.975	2.808	12.8	22.2
423295	2005 <i>EU</i> ₈₄		12 25.3	324°67	5°1/26.1	18	301892	1998 <i>QL</i> ₉₈		12 25.4	109°07	13°1/25.7	18
11 17	6 39.57	+9 2.1	1.943	2.716	15.4	20.9	11 17	7 19.21	+63 9.8	2.314	2.952	16.6	20.2
11 27	6 36.37	+8 50.4	1.844	2.699	12.7	20.6	11 27	7 10.64	+65 0.8	2.271	2.975	15.3	20.1
12 7	6 30.79	+8 50.8	1.767	2.683	9.5	20.4	12 7	6 55.75	+66 31.5	2.247	2.998	14.1	20.0
12 17	6 23.31	+9 5.2	1.714	2.668	6.5	20.2	12 17	6 35.44	+67 29.7	2.243	3.020	13.3	20.0
12 27	6 14.75	+9 34.4	1.688	2.653	5.1	20.1	12 27	6 12.40	+67 46.5	2.260	3.041	13.1	20.1
1 6	6 6.20	+10 17.1	1.690	2.639	7.0	20.2	1 6	5 50.45	+67 20.5	2.300	3.061	13.5	20.1
1 16	5 58.70	+11 11.0	1.719	2.625	10.4	20.3	1 16	5 32.82	+66 18.3	2.360	3.081	14.2	20.2
1 26	5 53.19	+12 12.6	1.772	2.611	13.7	20.5	1 26	5 21.24	+64 51.3	2.440	3.101	15.2	20.3
108939	2001 <i>PR</i> ₂₅		12 25.4	137°67	5°9/25.1	18	315650	2008 <i>DA</i> ₄₆		12 25.4	126°82	0°0/25.3	18
11 17	6 54.28	+37 4.5	1.839	2.607	16.4	20.1	11 17	6 45.71	+22 1.6	2.268	3.041	13.5	21.6
11 27	6 48.46	+37 56.7	1.765	2.617	13.3	19.9	11 27	6 40.68	+22 20.4	2.187	3.052	10.6	21.4
12 7	6 39.19	+38 41.5	1.712	2.626	9.9	19.7	12 7	6 33.39	+22 41.9	2.130	3.063	7.1	21.2
12 17	6 27.24	+39 12.0	1.685	2.635	6.9	19.6	12 17	6 24.40	+23 4.1	2.100	3.073	3.3	21.0
12 27	6 14.01	+39 22.4	1.685	2.644	5.9	19.5	12 27	6 14.61	+23 25.1	2.101	3.084	0.7	20.8
1 6	6 1.21	+39 11.2	1.714	2.652	7.9	19.6	1 6	6 5.05	+23 43.6	2.131	3.093	4.5	21.1
1 16	5 50.39	+38 41.4	1.770	2.659	11.1	19.9	1 16	5 56.67	+23 59.0	2.191	3.103	8.1	21.3
1 26	5 42.68	+37 59.0	1.849	2.666	14.2	20.1	1 26	5 50.27	+24 11.9	2.278	3.112	11.3	21.5
170048	2002 <i>VT</i> ₅₃		12 25.4	66°83	1°1/25.2	18	400881	2010 <i>PY</i> ₅₆		12 25.4	102°01	0°3/25.4	17
11 17	6 45.96	+24 7.9	1.805	2.595	15.8	20.1	11 17	6 48.56	+25 18.7	2.205	2.976	13.9	21.6
11 27	6 41.59	+24 41.3	1.728	2.601	12.4	19.9	11 27	6 42.77	+25 6.8	2.135	2.998	10.8	21.4
12 7	6 34.37	+25 17.6	1.672	2.608	8.4	19.7	12 7	6 34.66	+24 53.7	2.087	3.020	7.3	21.2
12 17	6 24.96	+25 53.4	1.642	2.615	4.0	19.4	12 17	6 24.92	+24 37.9	2.068	3.041	3.4	21.0
12 27	6 14.46	+26 25.0	1.640	2.622	1.4	19.3	12 27	6 14.53	+24 18.8	2.078	3.061	0.7	20.8
1 6	6 4.20	+26 50.2	1.667	2.629	5.6	19.6	1 6	6 4.59	+23 56.8	2.119	3.081	4.6	21.2
1 16	5 55.45	+27 8.4	1.722	2.636	9.8	19.8	1 16	5 56.04	+23 33.5	2.190	3.101	8.2	21.4
1 26	5 49.20	+27 20.9	1.801	2.644	13.4	20.1	1 26	5 49.63	+23 10.6	2.287	3.120	11.3	21.7
272042	2005 <i>EP</i> ₉₄		12 25.4	345°18	14°5/27.6	17	182194	2000 <i>UX</i> ₂₄		12 25.4	92°09	2°1/25.1	18
11 17	6 38.17	-14 48.7	1.925	2.596	18.7	20.0	11 17	6 47.06	+27 29.0	2.151	2.927	14.0	20.2
11 27	6 35.22	-16 13.1	1.853	2.587	17.3	19.8	11 27	6 41.94	+28 7.9	2.079	2.944	11.0	20.0
12 7	6 29.94	-17 12.6	1.796	2.579	16.0	19.7	12 7	6 34.33	+28 46.3	2.030	2.962	7.5	19.8
12 17	6 22.87	-17 40.1	1.758	2.572	14.9	19.6	12 17	6 24.86	+29 20.7	2.009	2.978	3.9	19.6
12 27	6 14.87	-17 30.2	1.740	2.566	14.5	19.6	12 27	6 14.53	+29 47.8	2.016	2.995	2.2	19.6
1 6	6 6.99	-16 42.1	1.743	2.560	14.9	19.6	1 6	6 4.51	+30 5.9	2.054	3.012	5.2	19.8
1 16	6 0.23	-15 18.7	1.766	2.555	15.9	19.6	1 16	5 55.84	+30 15.2	2.121	3.028	8.6	20.0
1 26	5 55.46	-13 27.0	1.810	2.551	17.3	19.7	1 26	5 49.38	+30 17.5	2.213	3.044	11.7	20.3
73943	1997 <i>SE</i> ₁₅		12 25.4	9°35	1°0/25.4	18	205139	1999 <i>VW</i> ₂₂₁		12 25.4	20°24	2°3/25.3	18
11 17	6 41.70	+21 26.9	1.921	2.712	14.9	19.2	11 17	6 44.25	+27 38.7	1.272	2.090	19.6	19.7
11 27	6 37.97	+21 12.5	1.839	2.714	11.7	19.0	11 27	6 41.33	+27 55.7	1.209	2.098	15.5	19.5
12 7	6 31.77	+21 0.0	1.779	2.716	8.0	18.8	12 7	6 34.70	+28 11.2	1.165	2.106	10.6	19.2
12 17	6 23.69	+20 48.9	1.745	2.719	3.8	18.5	12 17	6 25.23	+28 21.1	1.143	2.116	5.3	19.0
12 27	6 14.73	+20 38.8	1.739	2.722	1.2	18.4	12 27	6 14.46	+28 21.8	1.146	2.127	2.5	18.8
1 6	6 6.02	+20 29.8	1.762	2.725	5.2	18.6	1 6	6 4.23	+28 12.6	1.176	2.140	7.0	19.1
1 16	5 58.63	+20 22.4	1.813	2.730	9.2	18.9	1 16	5 56.18	+27 55.3	1.229	2.153	12.0	19.4
1 26	5 53.41	+20 17.3	1.888	2.734	12.7	19.1	1 26	5 51.44	+27 33.9	1.305	2.167	16.3	19.7
418808	2008 <i>VB</i> ₂₉		12 25.4	312°68	0°4/25.4	18	460924	2014 <i>WO</i> ₂₂₅		12 25.4	291°18	0°3/25.3	18
11 17	6 42.85	+25 5.8	2.360	3.139	12.9	21.1	11 17	6 42.51	+24 5.2	2.317	3.098	13.0	21.2
11 27	6 38.47	+24 59.0	2.268	3.136	10.1	20.9	11 27	6 38.33	+24 7.1	2.220	3.089	10.2	21.0
12 7	6 31.91	+24 51.4	2.199	3.133	6.8	20.7	12 7	6 31.91	+24 9.4	2.146	3.081	7.0	20.8
12 17	6 23.71	+24 41.7	2.158	3.131	3.2	20.5	12 17	6 23.77	+24 10.8	2.099	3.072	3.3	20.6
12 27	6 14.73	+24 29.2	2.145	3.128	0.7	20.3	12 27	6 14.75	+24 10.1	2.081	3.064	0.7	20.3
1 6	6 5.92	+24 13.9	2.163	3.126	4.4	20.5	1 6	6 5.84	+24 6.7	2.093	3.056	4.5	20.6
1 16	5 58.23	+23 56.6	2.210	3.123	8.0	20.8	1 16	5 58.00	+24 1.1	2.134	3.048	8.2	20.8
1 26	5 52.41	+23 38.8	2.283	3.121	11.1	21.0	1 26	5 52.05	+23 54.2	2.201	3.040	11.4	21.0
472880	2015 <i>FZ</i> ₃₁₃		12 25.4	132°55	0°5/25.4	18	489815	2008 <i>DK</i> ₈₅		12 25.4			

EPHEMERIDES

12 25.4

12 25.4

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
522187	2016 <i>AK</i> ₂₅₈	12 25.4 252°86		0°6/25.4 18			374200	2005 <i>EP</i> ₅₀	12 25.4 307°53		8°2/24.8 18		
11 17	6 42.39	+21 5.4	2.487	3.261	12.4	22.3	11 17	6 50.01	+46 6.8	2.203	2.947	14.7	20.5
11 27	6 38.05	+21 9.4	2.386	3.251	9.8	22.1	11 27	6 45.31	+47 3.1	2.110	2.933	12.6	20.3
12 7	6 31.64	+21 16.0	2.309	3.242	6.7	21.9	12 7	6 37.25	+47 48.2	2.038	2.918	10.4	20.1
12 17	6 23.63	+21 24.2	2.259	3.232	3.2	21.6	12 17	6 26.47	+48 15.0	1.990	2.904	8.7	20.0
12 27	6 14.78	+21 32.8	2.239	3.222	0.8	21.4	12 27	6 14.24	+48 17.5	1.968	2.889	8.3	19.9
1 6	6 5.99	+21 41.1	2.250	3.212	4.3	21.7	1 6	6 2.20	+47 53.7	1.973	2.875	9.4	20.0
1 16	5 58.15	+21 48.9	2.289	3.201	7.8	21.9	1 16	5 51.89	+47 6.1	2.003	2.862	11.5	20.1
1 26	5 52.04	+21 56.4	2.356	3.191	10.9	22.1	1 26	5 44.54	+46 0.7	2.057	2.848	13.9	20.2
397220	2006 <i>HY</i> ₇₃	12 25.4 167°71		0°2/25.3 18			304888	2007 <i>RE</i> ₁₈₉	12 25.4 56°00		1°5/25.3 18		
11 17	6 47.43	+22 47.4	2.286	3.056	13.5	22.4	11 17	6 47.42	+25 55.9	1.564	2.362	17.5	21.0
11 27	6 42.09	+23 6.4	2.198	3.061	10.6	22.2	11 27	6 43.02	+26 16.5	1.499	2.377	13.7	20.7
12 7	6 34.39	+23 27.6	2.133	3.065	7.2	22.0	12 7	6 35.45	+26 37.4	1.455	2.392	9.3	20.5
12 17	6 24.91	+23 48.9	2.096	3.069	3.3	21.8	12 17	6 25.49	+26 55.0	1.435	2.408	4.5	20.3
12 27	6 14.53	+24 8.3	2.089	3.071	0.7	21.6	12 27	6 14.48	+27 6.3	1.443	2.424	1.7	20.1
1 6	6 4.32	+24 24.2	2.112	3.074	4.6	21.9	1 6	6 3.95	+27 9.8	1.478	2.441	6.0	20.5
1 16	5 55.29	+24 36.5	2.166	3.075	8.3	22.1	1 16	5 55.29	+27 6.6	1.540	2.457	10.5	20.8
1 26	5 48.28	+24 45.8	2.245	3.076	11.5	22.3	1 26	5 49.47	+26 59.1	1.626	2.474	14.3	21.0
233081	2005 <i>QW</i> ₁₆	12 25.4		4°18 0°5/25.4 18			229620	2006 <i>DZ</i> ₈₃	12 25.4 141°40		0°5/25.3 17		
11 17	6 36.59	+21 35.6	0.928	1.779	22.6	19.3	11 17	6 43.77	+24 46.2	2.447	3.221	12.6	21.3
11 27	6 36.32	+21 43.0	0.868	1.776	17.9	19.0	11 27	6 39.09	+24 51.5	2.359	3.225	9.8	21.1
12 7	6 31.90	+21 56.8	0.826	1.777	12.2	18.7	12 7	6 32.29	+24 56.9	2.296	3.229	6.7	21.0
12 17	6 24.13	+22 15.4	0.802	1.779	5.7	18.3	12 17	6 23.91	+25 0.7	2.260	3.233	3.1	20.7
12 27	6 14.68	+22 35.7	0.801	1.784	1.2	18.0	12 27	6 14.79	+25 1.7	2.254	3.236	0.8	20.5
1 6	6 5.70	+22 54.8	0.821	1.791	7.8	18.5	1 6	6 5.86	+24 59.3	2.278	3.240	4.3	20.8
1 16	5 59.13	+23 11.9	0.863	1.800	13.9	18.9	1 16	5 58.02	+24 54.1	2.331	3.243	7.7	21.0
1 26	5 56.30	+23 26.9	0.924	1.811	19.0	19.2	1 26	5 52.00	+24 47.0	2.411	3.246	10.7	21.2
486454	2013 <i>GX</i> ₁₆	12 25.4 248°99		1°1/25.5 17			488058	2015 <i>UQ</i> ₅₅	12 25.4 102°17		3°1/25.6 18		
11 17	6 44.71	+19 49.1	2.117	2.895	14.2	22.3	11 17	6 44.57	+15 12.7	1.939	2.715	15.3	21.7
11 27	6 40.26	+19 48.8	2.017	2.883	11.2	22.1	11 27	6 40.07	+14 56.0	1.860	2.723	12.2	21.5
12 7	6 33.35	+19 52.1	1.939	2.871	7.7	21.9	12 7	6 33.12	+14 46.0	1.804	2.731	8.6	21.3
12 17	6 24.51	+19 58.4	1.887	2.859	3.8	21.6	12 17	6 24.35	+14 43.3	1.773	2.739	4.9	21.0
12 27	6 14.61	+20 6.5	1.865	2.847	1.3	21.4	12 27	6 14.71	+14 47.9	1.771	2.747	3.1	20.9
1 6	6 4.76	+20 15.7	1.872	2.834	5.1	21.6	1 6	6 5.33	+14 59.2	1.798	2.754	5.8	21.1
1 16	5 56.04	+20 25.5	1.908	2.821	9.1	21.9	1 16	5 57.26	+15 16.4	1.852	2.762	9.5	21.4
1 26	5 49.37	+20 36.2	1.970	2.808	12.6	22.1	1 26	5 51.34	+15 38.4	1.932	2.769	12.9	21.6
199322	2006 <i>BC</i> ₁₁₈	12 25.4		77°39 1°0/25.4 17			516387	1995 <i>UL</i> ₆₆	12 25.4 249°25		4°9/24.4 18		
11 17	6 43.00	+20 32.0	2.208	2.987	13.6	20.9	11 17	6 49.73	+32 46.0	1.969	2.744	15.2	20.6
11 27	6 38.64	+20 26.3	2.123	2.991	10.7	20.7	11 27	6 44.98	+33 58.4	1.873	2.733	12.3	20.4
12 7	6 32.06	+20 23.2	2.061	2.994	7.3	20.5	12 7	6 37.04	+35 10.2	1.799	2.721	9.0	20.2
12 17	6 23.81	+20 22.0	2.026	2.998	3.5	20.3	12 17	6 26.44	+36 14.7	1.751	2.710	5.9	19.9
12 27	6 14.77	+20 22.1	2.020	3.002	1.2	20.1	12 27	6 14.26	+37 5.4	1.733	2.698	5.0	19.9
1 6	6 5.93	+20 23.1	2.044	3.006	4.7	20.3	1 6	6 1.97	+37 38.0	1.743	2.685	7.4	20.0
1 16	5 58.25	+20 25.0	2.096	3.010	8.3	20.6	1 16	5 51.11	+37 52.2	1.780	2.673	10.9	20.2
1 26	5 52.50	+20 28.1	2.175	3.014	11.6	20.8	1 26	5 42.95	+37 51.2	1.842	2.660	14.2	20.4
219191	1999 <i>TL</i> ₃₁₆	12 25.4 101°35		0°4/25.4 18			329104	2011 <i>BV</i> ₁₃₅	12 25.4 185°10		0°1/25.4 18		
11 17	6 45.39	+22 1.7	2.430	3.200	12.8	21.9	11 17	6 43.56	+22 39.6	2.901	3.665	11.0	22.0
11 27	6 40.13	+22 3.2	2.358	3.221	10.0	21.7	11 27	6 38.61	+22 55.8	2.805	3.665	8.7	21.9
12 7	6 32.84	+22 6.3	2.310	3.241	6.7	21.6	12 7	6 31.84	+23 13.6	2.734	3.665	5.8	21.7
12 17	6 24.09	+22 9.8	2.289	3.262	3.1	21.4	12 17	6 23.69	+23 31.7	2.691	3.664	2.7	21.5
12 27	6 14.73	+22 12.6	2.299	3.282	0.7	21.2	12 27	6 14.84	+23 48.5	2.679	3.662	0.5	21.3
1 6	6 5.68	+22 14.3	2.339	3.301	4.2	21.5	1 6	6 6.09	+24 3.2	2.699	3.660	3.8	21.5
1 16	5 57.78	+22 15.0	2.410	3.320	7.5	21.8	1 16	5 58.19	+24 15.2	2.749	3.658	6.8	21.7
1 26	5 51.72	+22 15.5	2.507	3.339	10.4	22.0	1 26	5 51.81	+24 25.1	2.827	3.655	9.5	21.9
484290	2007 <i>RG</i> ₅₁	12 25.4		22°18 10°2/25.8 17			278520	2008 <i>DY</i> ₃₄	12 25.4 264°61		1°3/25.3 17		
11 17	6 40.40	+ 6 0.6	1.186	1.987	21.7	20.3	11 17	6 45.50	+26 45.1	2.016	2.799	14.6	21.3
11 27	6 37.85	+ 4 22.4	1.136	2.000	18.2	20.1	11 27	6 41.06	+26 54.0	1.925	2.795	11.5	21.1
12 7	6 32.07	+ 3 1.9	1.104	2.015	14.4	19.9	12 7	6 33.96	+27 1.8	1.857	2.791	7.9	20.8
12 17	6 23.92	+ 2 6.5	1.092	2.031	11.3	19.8	12 17	6 24.81	+27 6.2	1.815	2.787	3.9	20.6
12 27	6 14.77	+ 1 41.5	1.103	2.049	10.2	19.8	12 27	6 14.62	+27 5.0	1.802	2.783	1.5	20.4
1 6	6 6.18	+ 1 47.6	1.137	2.068	11.8	20.0	1 6	6 4.62	+26 57.5	1.818	2.779	5.2	20.7
1 16	5 59.50	+ 2 20.9	1.193	2.088	14.8	20.2	1 16	5 55.97	+26 44.7	1.862	2.775	9.2	20.9
1 26	5 55.69	+ 3 14.8	1.269	2.109	18.0	20.5	1 26	5 49.60	+26 28.6	1.931	2.771	12.7	21.1
300620	2007 <i>US</i> ₂₂	12 25.4 111°52		4°4/24.8 18			477263	2009 <i>SH</i> ₇₇	12 25.4 23°59		1°1/25.5 18		
11 17	6 52.03	+33 24.0	2.078	2.845	14.8	21.3	11 17	6 44.92	+19 16.9	1.264	2.077	20.0	20.8
11 27	6 46.13	+34 24.9	2.009	2.864	11.8	21.1	11 27	6 41.79	+19 35.5	1.196	2.082	15.8	20.5
12 7	6 37.33	+35 21.9	1.963	2.883	8.5	20.9	12 7	6 35.06	+20 2.8	1.146	2.087	10.8	20.3
12 17	6 26.33	+36 8.9	1.943	2.901	5.5	20.8	12 17	6 25.49	+20 36.6	1.119	2.093	5.2	20.0
12 27	6 14.28	+36 41.2	1.953	2.919	4.5	20.8	12 27	6 14.49	+21 13.7	1.117	2.100	1.4	19.7
1 6	6 2.57	+36 56.6	1.993	2.936	6.6	20.9	1 6	6 3.85	+21 50.4	1.141	2.107	6.8	20.1
1 16	5 52.49	+36 56.5	2.061	2.952	9.7	21.2	1 16	5 55.21	+22 24.9	1.191	2.115	12.1	20.4
1 26	5 44.99	+36 44.5	2.154	2.968	12.5	21.4	1 26	5 49.79	+22 56.4	1.262	2.124	16.7	20.7
130690	2000 <i>SO</i> ₁₄₀	12 25.4		47°38 0°6/25.4 18			264888	2002 <i>SH</</i>					

EPHEMERIDES

12 25.4

12 25.4

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
238601	2005 <i>AC</i> ₄₅		12 25.4	43°88'	3°3'/25.4	18	249966	2001 <i>UJ</i> ₉₈		12 25.4	29°18'	5°1'/24.6	18
11 17	6 51.12	+30 19.5	1.257	2.064	20.4	19.0	11 17	6 46.27	+30 59.6	1.456	2.260	18.3	19.9
11 27	6 46.38	+30 37.6	1.213	2.094	16.0	18.8	11 27	6 42.74	+32 17.6	1.396	2.274	14.5	19.7
12 7	6 37.81	+30 50.6	1.188	2.125	11.0	18.6	12 7	6 35.64	+33 34.1	1.356	2.289	10.3	19.5
12 17	6 26.54	+30 53.3	1.187	2.157	5.9	18.4	12 17	6 25.74	+34 41.3	1.341	2.305	6.4	19.3
12 27	6 14.35	+30 42.5	1.210	2.189	3.4	18.3	12 27	6 14.48	+35 32.0	1.351	2.321	5.2	19.3
1 6	6 3.17	+30 18.9	1.261	2.222	7.2	18.7	1 6	6 3.64	+36 2.6	1.388	2.339	8.0	19.5
1 16	5 54.54	+29 46.4	1.336	2.254	11.7	19.0	1 16	5 54.85	+36 13.9	1.451	2.357	11.9	19.8
1 26	5 49.38	+29 10.2	1.434	2.287	15.6	19.3	1 26	5 49.28	+36 10.2	1.536	2.376	15.4	20.1
350496	1999 <i>VE</i> ₁₃₃		12 25.4	315°17'	2°2'/25.4	18	458500	2011 <i>CE</i> ₂₅		12 25.4	323°26'	4°3'/26.1	18
11 17	6 43.93	+19 11.8	1.630	2.426	17.0	20.6	11 17	6 40.47	+10 53.6	1.870	2.648	15.7	20.8
11 27	6 40.32	+18 49.3	1.541	2.417	13.5	20.3	11 27	6 37.24	+10 51.5	1.772	2.632	12.8	20.6
12 7	6 33.74	+18 30.4	1.472	2.408	9.4	20.1	12 7	6 31.51	+11 1.2	1.694	2.617	9.4	20.4
12 17	6 24.81	+18 15.4	1.428	2.400	4.8	19.8	12 17	6 23.75	+11 24.0	1.642	2.602	6.0	20.1
12 27	6 14.63	+18 4.6	1.411	2.391	2.3	19.6	12 27	6 14.86	+12 0.1	1.617	2.588	4.3	20.0
1 6	6 4.61	+17 58.0	1.421	2.383	6.3	19.8	1 6	6 5.95	+12 47.5	1.619	2.574	6.6	20.1
1 16	5 56.08	+17 56.0	1.458	2.376	10.9	20.1	1 16	5 58.15	+13 43.7	1.649	2.561	10.3	20.3
1 26	5 50.13	+17 58.8	1.519	2.369	15.0	20.3	1 26	5 52.45	+14 45.3	1.704	2.548	14.0	20.5
357036	2000 <i>LL</i> ₂₂		12 25.4	191°46'	3°8'/25.6	18	162277	1999 <i>VY</i> ₄₄		12 25.4	61°76'	4°0'/25.3	18
11 17	6 43.84	+11 57.3	2.449	3.205	13.1	22.1	11 17	6 47.38	+16 12.0	1.565	2.353	17.9	19.9
11 27	6 39.03	+11 30.6	2.356	3.204	10.6	22.0	11 27	6 42.55	+15 18.0	1.505	2.374	14.2	19.7
12 7	6 32.22	+11 10.5	2.286	3.202	7.7	21.8	12 7	6 34.87	+14 29.7	1.466	2.395	10.0	19.5
12 17	6 23.90	+10 58.4	2.243	3.199	5.0	21.6	12 17	6 25.15	+13 49.2	1.451	2.417	5.8	19.3
12 27	6 14.83	+10 54.9	2.229	3.196	3.8	21.5	12 27	6 14.64	+13 18.5	1.464	2.438	4.1	19.2
1 6	6 5.88	+11 0.3	2.246	3.193	5.7	21.6	1 6	6 4.70	+12 58.7	1.505	2.460	7.0	19.5
1 16	5 57.90	+11 13.7	2.292	3.189	8.6	21.8	1 16	5 56.52	+12 50.0	1.572	2.481	10.9	19.7
1 26	5 51.61	+11 34.1	2.364	3.185	11.4	22.0	1 26	5 50.94	+12 51.4	1.663	2.503	14.5	20.0
9982	1995 <i>CH</i>		12 25.4	16°61'	6°5'/26.8	18	101293	1998 <i>SS</i> ₁₂₆		12 25.4	132°32'	7°2'/26.3	18
11 17	6 41.83	+ 6 15.0	1.495	2.275	19.0	17.5	11 17	6 44.13	+ 2 55.7	2.117	2.854	15.4	20.1
11 27	6 38.63	+ 6 14.4	1.423	2.279	15.6	17.3	11 27	6 39.43	+ 2 15.3	2.042	2.864	12.9	19.9
12 7	6 32.55	+ 6 32.8	1.369	2.284	11.9	17.1	12 7	6 32.55	+ 1 48.8	1.987	2.873	10.3	19.7
12 17	6 24.21	+ 7 12.4	1.339	2.291	8.2	16.9	12 17	6 24.07	+ 1 39.3	1.957	2.882	8.1	19.6
12 27	6 14.76	+ 8 12.8	1.334	2.297	6.5	16.8	12 27	6 14.83	+ 1 48.6	1.954	2.891	7.2	19.6
1 6	6 5.55	+ 9 30.1	1.356	2.305	8.3	17.0	1 6	6 5.82	+ 2 16.2	1.979	2.899	8.3	19.7
1 16	5 57.85	+10 58.9	1.403	2.314	11.9	17.2	1 16	5 57.95	+ 2 59.9	2.031	2.907	10.6	19.8
1 26	5 52.71	+12 32.8	1.474	2.323	15.5	17.4	1 26	5 51.97	+ 3 55.9	2.108	2.914	13.1	20.0
163927	2003 <i>SO</i> ₃₀₄		12 25.4	135°79'	0°9'/25.5	18	111917	2002 <i>GL</i> ₉		12 25.4	236°08'	1°4'/25.5	18
11 17	6 45.84	+20 16.2	1.820	2.606	15.8	20.6	11 17	6 45.56	+19 5.5	1.772	2.559	16.2	19.7
11 27	6 41.42	+20 23.5	1.737	2.609	12.5	20.4	11 27	6 41.33	+19 9.9	1.685	2.557	12.8	19.4
12 7	6 34.26	+20 35.3	1.676	2.611	8.5	20.2	12 7	6 34.29	+19 19.9	1.620	2.555	8.8	19.2
12 17	6 24.97	+20 50.3	1.640	2.613	4.1	19.9	12 17	6 25.04	+19 34.4	1.580	2.552	4.3	18.9
12 27	6 14.62	+21 6.6	1.633	2.615	1.1	19.7	12 27	6 14.63	+19 52.0	1.568	2.550	1.6	18.7
1 6	6 4.47	+21 22.8	1.654	2.617	5.5	20.0	1 6	6 4.38	+20 11.0	1.585	2.547	5.7	19.0
1 16	5 55.75	+21 38.2	1.703	2.619	9.8	20.3	1 16	5 55.55	+20 30.7	1.629	2.545	10.1	19.2
1 26	5 49.43	+21 53.2	1.777	2.621	13.5	20.5	1 26	5 49.16	+20 50.7	1.697	2.542	14.0	19.5
427090	2014 <i>US</i> ₄₅		12 25.4	41°96'	0°5'/25.3	16	521712	2015 <i>RY</i> ₂₆₅		12 25.4	123°33'	2°9'/25.6	18
11 17	6 43.33	+23 57.5	1.978	2.766	14.7	21.2	11 17	6 44.01	+15 22.2	1.966	2.743	15.1	21.9
11 27	6 39.17	+24 8.8	1.906	2.779	11.5	21.0	11 27	6 39.69	+15 10.1	1.882	2.746	12.1	21.7
12 7	6 32.54	+24 21.4	1.856	2.792	7.7	20.8	12 7	6 32.93	+15 4.8	1.821	2.749	8.5	21.5
12 17	6 24.09	+24 33.3	1.832	2.805	3.6	20.6	12 17	6 24.31	+15 6.8	1.784	2.751	4.8	21.3
12 27	6 14.81	+24 42.5	1.836	2.819	0.8	20.4	12 27	6 14.78	+15 15.7	1.777	2.754	3.0	21.2
1 6	6 5.84	+24 48.3	1.870	2.833	4.9	20.7	1 6	6 5.45	+15 31.0	1.798	2.756	5.7	21.3
1 16	5 58.24	+24 50.7	1.932	2.848	8.8	21.0	1 16	5 57.36	+15 51.4	1.848	2.758	9.4	21.6
1 26	5 52.83	+24 50.9	2.019	2.862	12.1	21.2	1 26	5 51.39	+16 16.0	1.922	2.761	12.9	21.8
102468	1999 <i>TV</i> ₂₃₄		12 25.4	143°76'	1°8'/25.2	18	21717	<i>Pang</i>		12 25.4	23°38'	1°1'/25.5	18
11 17	6 51.92	+25 54.6	1.804	2.582	16.2	20.2	11 17	6 43.15	+20 20.1	1.959	2.745	14.9	18.8
11 27	6 46.30	+26 30.7	1.726	2.593	12.8	20.0	11 27	6 39.10	+20 16.9	1.876	2.748	11.7	18.6
12 7	6 37.61	+27 8.1	1.671	2.603	8.7	19.8	12 7	6 32.57	+20 17.1	1.815	2.750	8.0	18.4
12 17	6 26.55	+27 42.5	1.641	2.613	4.3	19.5	12 17	6 24.15	+20 19.9	1.780	2.753	3.9	18.1
12 27	6 14.32	+28 9.7	1.641	2.622	2.0	19.4	12 27	6 14.82	+20 24.4	1.773	2.756	1.3	17.9
1 6	6 2.40	+28 27.6	1.670	2.630	5.9	19.7	1 6	6 5.70	+20 29.9	1.796	2.759	5.1	18.2
1 16	5 52.14	+28 36.3	1.728	2.637	10.1	19.9	1 16	5 57.87	+20 36.2	1.846	2.762	9.1	18.4
1 26	5 44.61	+28 38.2	1.810	2.644	13.7	20.2	1 26	5 52.19	+20 43.6	1.921	2.765	12.6	18.7
31985	2000 <i>HV</i> ₂₃		12 25.4	124°85'	1°0'/25.5	18	422117	2014 <i>QU</i> ₄₁₄		12 25.4	121°69'	1°0'/25.3	18
11 17	6 49.02	+19 48.4	1.882	2.659	15.7	20.2	11 17	6 45.48	+25 35.8	2.163	2.942	13.9	21.8
11 27	6 43.64	+19 54.2	1.808	2.674	12.4	20.0	11 27	6 40.74	+25 50.9	2.080	2.948	10.9	21.6
12 7	6 35.58	+20 4.4	1.755	2.688	8.4	19.7	12 7	6 33.59	+26 6.0	2.020	2.954	7.4	21.4
12 17	6 25.51	+20 17.5	1.729	2.701	4.1	19.5	12 17	6 24.60	+26 19.0	1.987	2.959	3.5	21.2
12 27	6 14.53	+20 31.9	1.732	2.714	1.3	19.3	12 27	6 14.73	+26 27.6	1.983	2.965	1.2	21.0
1 6	6 3.89	+20 46.3	1.765	2.727	5.3	19.6	1 6	6 5.10	+26 30.9	2.009	2.970	4.8	21.3
1 16	5 54.75	+21 0.2	1.826	2.739	9.4	19.9	1 16	5 56.73	+26 29.4	2.063	2.975	8.5	21.5
1 26	5 48.00	+21 13.9	1.913	2.750	13.0	20.2	1 26	5 50.48	+26 24.4	2.144	2.980	11.8	21.7
374237	2005 <i>GK</i> ₈₈		12 25.4	1°62'	3°4'/25.2	18	222386	2001 <i>DL</i> ₆₅		12 25.4	27°96'		

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
299443	2006 BK ₁₀		12 25.4	21° 97'	0° 8'/25.3	18	291747	2006 KZ ₂		12 25.4	189° 44'	3° 7'/25.6	18
11 17	6 40.11	+25 36.4	2.515	3.296	12.1	20.8	11 17	6 45.27	+13 14.9	2.131	2.896	14.5	21.4
11 27	6 36.20	+25 43.4	2.433	3.303	9.4	20.6	11 27	6 40.49	+12 51.9	2.041	2.895	11.7	21.2
12 7	6 30.34	+25 50.0	2.375	3.310	6.4	20.5	12 7	6 33.39	+12 35.9	1.973	2.894	8.4	21.0
12 17	6 23.03	+25 54.7	2.345	3.318	3.0	20.3	12 17	6 24.53	+12 28.1	1.932	2.892	5.2	20.8
12 27	6 15.05	+25 56.3	2.344	3.326	1.0	20.1	12 27	6 14.78	+12 29.0	1.919	2.890	3.7	20.7
1 6	6 7.28	+25 54.4	2.372	3.334	4.1	20.4	1 6	6 5.18	+12 38.4	1.936	2.888	6.0	20.8
1 16	6 0.54	+25 49.4	2.430	3.343	7.3	20.6	1 16	5 56.72	+12 55.4	1.982	2.885	9.4	21.0
1 26	5 55.50	+25 42.2	2.514	3.353	10.2	20.8	1 26	5 50.23	+13 18.9	2.053	2.881	12.5	21.2
362711	2011 UR ₁₉₉		12 25.4	83° 40'	0° 6'/25.4	17	418683	2008 TC ₁₇₄		12 25.4	52° 10'	2° 6'/25.2	16
11 17	6 46.68	+25 29.3	1.863	2.649	15.5	21.2	11 17	6 44.79	+29 28.7	2.114	2.896	14.1	21.6
11 27	6 42.01	+25 23.0	1.783	2.655	12.2	21.0	11 27	6 40.34	+29 59.5	2.039	2.907	11.1	21.5
12 7	6 34.59	+25 15.7	1.725	2.661	8.3	20.8	12 7	6 33.37	+30 28.2	1.987	2.918	7.7	21.3
12 17	6 25.10	+25 5.5	1.693	2.666	3.9	20.5	12 17	6 24.53	+30 51.3	1.961	2.929	4.2	21.1
12 27	6 14.65	+24 51.3	1.689	2.672	0.9	20.3	12 27	6 14.80	+31 6.0	1.964	2.941	2.7	21.0
1 6	6 4.54	+24 33.1	1.714	2.677	5.3	20.6	1 6	6 5.35	+31 11.0	1.996	2.953	5.4	21.2
1 16	5 55.95	+24 12.4	1.768	2.683	9.5	20.9	1 16	5 57.27	+31 7.0	2.056	2.964	8.8	21.4
1 26	5 49.80	+23 51.4	1.846	2.689	13.1	21.1	1 26	5 51.39	+30 56.4	2.142	2.976	11.9	21.6
380988	2006 SY ₃₂₀		12 25.4	204° 01'	4° 5'/24.9	18	437860	2000 SK ₆₆		12 25.4	93° 03'	3° 5'/25.7	16
11 17	6 51.55	+31 20.6	1.597	2.384	17.6	21.3	11 17	6 48.70	+14 32.1	1.794	2.567	16.5	21.7
11 27	6 46.87	+32 16.0	1.514	2.383	14.1	21.1	11 27	6 43.26	+14 11.9	1.732	2.592	13.1	21.5
12 7	6 38.54	+33 10.0	1.451	2.380	10.1	20.8	12 7	6 35.22	+13 59.5	1.691	2.616	9.2	21.3
12 17	6 27.20	+33 55.6	1.413	2.378	6.1	20.6	12 17	6 25.32	+13 55.4	1.675	2.640	5.3	21.2
12 27	6 14.22	+34 26.3	1.403	2.375	4.7	20.5	12 27	6 14.68	+13 59.7	1.689	2.663	3.5	21.1
1 6	6 1.41	+34 38.7	1.420	2.372	7.7	20.7	1 6	6 4.50	+14 11.5	1.731	2.686	6.2	21.3
1 16	5 50.51	+34 33.7	1.463	2.368	11.9	20.9	1 16	5 55.89	+14 29.8	1.801	2.709	9.9	21.6
1 26	5 42.87	+34 16.1	1.530	2.364	15.8	21.2	1 26	5 49.65	+14 53.1	1.896	2.731	13.2	21.8
48981	1998 QD ₄₅		12 25.4	42° 89'	0° 8'/25.4	18 R	205151	1999 XE ₁₄₇		12 25.4	55° 93'	1° 5'/25.3	18
11 17	6 48.52	+26 26.6	1.301	2.110	19.7	17.5	11 17	6 48.02	+25 11.8	1.525	2.323	17.9	20.8
11 27	6 44.47	+26 11.3	1.237	2.121	15.6	17.2	11 27	6 43.55	+25 43.7	1.465	2.342	14.0	20.6
12 7	6 36.73	+25 53.6	1.191	2.131	10.6	17.0	12 7	6 35.86	+26 17.1	1.425	2.362	9.5	20.4
12 17	6 26.20	+25 31.1	1.168	2.143	5.0	16.7	12 17	6 25.75	+26 47.9	1.409	2.383	4.6	20.1
12 27	6 14.46	+25 2.6	1.172	2.154	1.2	16.5	12 27	6 14.59	+27 12.2	1.421	2.403	1.8	20.0
1 6	6 3.37	+24 29.4	1.201	2.167	6.7	16.9	1 6	6 3.95	+27 28.1	1.461	2.424	6.1	20.3
1 16	5 54.51	+23 54.6	1.257	2.179	11.8	17.2	1 16	5 55.22	+27 36.0	1.527	2.444	10.6	20.6
1 26	5 48.98	+23 21.8	1.334	2.192	16.2	17.5	1 26	5 49.40	+27 38.1	1.617	2.465	14.4	20.9
377945	2006 HH ₈₉		12 25.4	211° 67'	7° 9'/25.2	18	366545	2002 QP ₁₁₀		12 25.4	80° 33'	2° 7'/25.7	18
11 17	6 40.56	- 8 19.8	3.467	4.122	11.2	22.6	11 17	6 42.49	+14 29.3	2.330	3.097	13.3	21.3
11 27	6 35.92	- 9 27.9	3.375	4.114	10.1	22.5	11 27	6 37.99	+14 22.5	2.256	3.113	10.6	21.1
12 7	6 29.87	-10 24.2	3.304	4.105	8.9	22.4	12 7	6 31.51	+14 22.2	2.204	3.129	7.4	20.9
12 17	6 22.77	-11 5.3	3.258	4.095	8.1	22.3	12 17	6 23.58	+14 28.6	2.180	3.145	4.3	20.8
12 27	6 15.12	-11 28.5	3.239	4.085	7.9	22.3	12 27	6 15.01	+14 41.4	2.185	3.160	2.7	20.7
1 6	6 7.51	-11 32.9	3.246	4.074	8.4	22.3	1 6	6 6.68	+14 59.7	2.220	3.176	5.0	20.9
1 16	6 0.51	-11 19.1	3.279	4.062	9.4	22.3	1 16	5 59.43	+15 22.5	2.284	3.191	8.1	21.1
1 26	5 54.63	-10 49.2	3.336	4.050	10.6	22.4	1 26	5 53.93	+15 48.5	2.374	3.207	10.9	21.3
15258	Alfilipenko		12 25.4	109° 42'	0° 9'/25.4	18	49559	1999 CU ₉₂		12 25.4	347° 99'	2° 0'/25.2	18
11 17	6 44.25	+26 50.5	2.678	3.447	11.7	18.6	11 17	6 44.86	+26 23.1	1.721	2.516	16.2	18.8
11 27	6 39.21	+26 50.8	2.598	3.461	9.2	18.5	11 27	6 41.10	+26 56.1	1.637	2.513	12.8	18.5
12 7	6 32.24	+26 49.5	2.543	3.474	6.2	18.3	12 7	6 34.32	+27 30.5	1.574	2.511	8.8	18.3
12 17	6 23.88	+26 45.0	2.515	3.487	3.0	18.1	12 17	6 25.13	+28 2.3	1.536	2.508	4.4	18.0
12 27	6 14.92	+26 36.5	2.518	3.500	1.1	18.0	12 27	6 14.69	+28 27.8	1.526	2.507	2.2	17.9
1 6	6 6.22	+26 23.7	2.552	3.512	4.0	18.2	1 6	6 4.40	+28 44.5	1.544	2.505	6.0	18.1
1 16	5 58.58	+26 7.7	2.615	3.525	7.1	18.4	1 16	5 55.66	+28 52.4	1.589	2.504	10.4	18.4
1 26	5 52.66	+25 49.8	2.706	3.537	9.8	18.6	1 26	5 49.56	+28 53.5	1.657	2.503	14.2	18.6
425547	2010 RK ₈₇		12 25.4	50° 14'	4° 4'/25.5	18	398637	2012 LB ₁₁		12 25.4	38° 59'	6° 9'/28.2	18
11 17	6 52.24	+32 5.2	1.118	1.933	22.0	20.8	11 17	6 49.97	+ 1 5.2	1.097	1.874	24.6	19.6
11 27	6 48.08	+32 26.0	1.066	1.950	17.5	20.6	11 27	6 45.70	+ 2 19.0	1.045	1.898	20.3	19.4
12 7	6 39.47	+32 39.7	1.031	1.968	12.3	20.4	12 7	6 37.64	+ 4 8.3	1.010	1.923	15.3	19.2
12 17	6 27.52	+32 39.8	1.018	1.986	7.0	20.1	12 17	6 26.67	+ 6 31.8	0.996	1.949	10.1	19.0
12 27	6 14.23	+32 21.5	1.029	2.005	4.5	20.1	12 27	6 14.42	+ 9 21.1	1.008	1.976	7.0	18.9
1 6	6 1.92	+31 45.7	1.065	2.025	8.3	20.3	1 6	6 2.79	+12 21.9	1.047	2.004	8.9	19.1
1 16	5 52.50	+30 58.1	1.125	2.045	13.2	20.7	1 16	5 53.49	+15 19.5	1.113	2.033	13.3	19.4
1 26	5 47.08	+30 5.9	1.206	2.065	17.6	21.0	1 26	5 47.66	+18 3.3	1.203	2.062	17.6	19.8
448374	2009 KL ₅		12 25.4	306° 84'	8° 8'/25.2	17	222024	1998 SZ ₇₆		12 25.4	81° 16'	3° 8'/25.4	17
11 17	6 41.41	+ 4 53.2	1.702	2.469	17.5	21.2	11 17	6 47.57	+34 33.0	2.210	2.980	13.9	19.8
11 27	6 38.19	+ 3 38.7	1.607	2.449	14.9	21.0	11 27	6 42.47	+34 52.3	2.133	2.991	11.1	19.6
12 7	6 32.27	+ 2 35.5	1.532	2.430	12.0	20.8	12 7	6 34.77	+35 5.5	2.079	3.001	8.0	19.4
12 17	6 24.17	+ 1 49.5	1.479	2.411	9.6	20.6	12 17	6 25.17	+35 8.6	2.051	3.011	5.0	19.3
12 27	6 14.83	+ 1 25.6	1.452	2.393	8.9	20.5	12 27	6 14.72	+34 59.0	2.052	3.021	3.8	19.2
1 6	6 5.47	+ 1 26.2	1.451	2.374	10.4	20.6	1 6	6 4.64	+34 36.6	2.082	3.031	5.9	19.4
1 16	5 57.32	+ 1 50.4	1.474	2.356	13.4	20.7	1 16	5 56.02	+34 3.5	2.140	3.041	8.9	19.6
1 26	5 51.45	+ 2 34.8	1.519	2.339	16.6	20.8	1 26	5 49.72	+33 23.4	2.224	3.051	11.8	19.8
240428	2003 WN ₆₅		12 25.4	89° 12'	1° 5'/25.2	18	439855	1998 XF ₇		12 25.4	81° 31'	3° 8'/25.4	17
11 17	6 47.4												

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
230719	2003 <i>UF</i> ₁₈₉		12 25.4	66°18'	0°2/25.4	18	316438	2010 <i>UN</i> ₄		12 25.4	177°75'	2°2/25.4	18
11 17	6 44.09	+23 10.1	2.162	2.943	13.8	19.8	11 17	6 44.62	+17 42.2	2.348	3.116	13.2	20.7
11 27	6 39.50	+23 3.9	2.088	2.957	10.8	19.6	11 27	6 39.76	+17 17.2	2.258	3.117	10.5	20.5
12 7	6 32.65	+22 58.4	2.036	2.970	7.3	19.4	12 7	6 32.79	+16 55.3	2.191	3.118	7.3	20.3
12 17	6 24.15	+22 52.6	2.011	2.984	3.4	19.2	12 17	6 24.24	+16 37.0	2.151	3.119	3.9	20.1
12 27	6 14.93	+22 45.6	2.015	2.998	0.7	19.0	12 27	6 14.93	+16 22.6	2.141	3.119	2.3	20.0
1 6	6 6.02	+22 37.4	2.049	3.012	4.6	19.4	1 6	6 5.80	+16 12.5	2.162	3.119	4.9	20.2
1 16	5 58.38	+22 28.5	2.112	3.026	8.2	19.6	1 16	5 57.75	+16 6.9	2.211	3.118	8.3	20.4
1 26	5 52.76	+22 20.0	2.200	3.040	11.4	19.8	1 26	5 51.51	+16 5.9	2.287	3.118	11.4	20.6
47912	2000 <i>GA</i> ₈₁		12 25.4	330°10'	0°0/25.4	18	139477	2001 <i>OK</i> ₁₀₄		12 25.4	140°57'	4°9/26.4	18
11 17	6 41.60	+23 24.8	1.917	2.711	14.9	18.9	11 17	6 44.67	+ 6 39.3	2.341	3.082	14.0	20.6
11 27	6 38.18	+23 24.4	1.822	2.698	11.8	18.7	11 27	6 39.70	+ 6 34.4	2.259	3.093	11.5	20.4
12 7	6 32.16	+23 25.2	1.748	2.686	8.0	18.4	12 7	6 32.70	+ 6 41.5	2.200	3.102	8.7	20.3
12 17	6 24.09	+23 25.8	1.700	2.674	3.8	18.1	12 17	6 24.19	+ 7 1.6	2.167	3.111	6.1	20.1
12 27	6 14.91	+23 25.1	1.680	2.663	0.7	17.9	12 27	6 14.95	+ 7 34.7	2.163	3.120	4.9	20.1
1 6	6 5.84	+23 22.2	1.688	2.652	5.2	18.2	1 6	6 5.88	+ 8 19.4	2.188	3.128	6.3	20.2
1 16	5 58.02	+23 17.7	1.724	2.642	9.5	18.4	1 16	5 57.85	+ 9 13.1	2.243	3.136	8.9	20.3
1 26	5 52.43	+23 12.5	1.784	2.633	13.2	18.6	1 26	5 51.57	+10 12.9	2.325	3.143	11.6	20.5
28546	2000 <i>EE</i> ₂₀		12 25.4	134°93'	3°9/25.7	18	276949	2004 <i>TC</i> ₂₈₄		12 25.4	144°15'	1°7/25.3	18
11 17	6 41.11	+11 0.5	2.557	3.314	12.5	17.9	11 17	6 50.77	+27 47.7	2.135	2.905	14.3	22.0
11 27	6 36.81	+10 36.3	2.472	3.319	10.1	17.7	11 27	6 44.90	+28 4.2	2.055	2.917	11.3	21.8
12 7	6 30.68	+10 19.3	2.409	3.323	7.5	17.6	12 7	6 36.41	+28 19.1	1.998	2.928	7.7	21.6
12 17	6 23.21	+10 10.8	2.373	3.327	4.9	17.4	12 17	6 25.97	+28 29.2	1.968	2.939	3.9	21.4
12 27	6 15.10	+10 11.4	2.367	3.331	3.9	17.3	12 27	6 14.63	+28 31.9	1.969	2.949	1.9	21.2
1 6	6 7.15	+10 21.0	2.390	3.335	5.5	17.5	1 6	6 3.61	+28 26.7	1.999	2.958	5.1	21.5
1 16	6 0.11	+10 38.7	2.442	3.339	8.1	17.6	1 16	5 54.04	+28 14.7	2.059	2.967	8.8	21.7
1 26	5 54.62	+11 3.2	2.520	3.343	10.7	17.8	1 26	5 46.79	+27 58.3	2.145	2.975	12.1	22.0
168968	2001 <i>BY</i> ₄₅		12 25.4	222°67'	6°5/26.0	18	229368	2005 <i>RC</i> ₃		12 25.4	186°64'	0°4/25.4	18
11 17	6 44.39	+ 3 53.4	2.334	3.066	14.3	20.4	11 17	6 49.71	+22 55.5	1.957	2.733	15.2	20.9
11 27	6 39.66	+ 3 18.3	2.234	3.056	12.0	20.2	11 27	6 44.43	+23 18.2	1.867	2.733	12.0	20.7
12 7	6 32.80	+ 2 54.8	2.157	3.045	9.5	20.0	12 7	6 36.35	+23 44.0	1.799	2.732	8.2	20.4
12 17	6 24.29	+ 2 46.1	2.104	3.033	7.4	19.9	12 17	6 26.06	+24 10.2	1.758	2.731	3.9	20.2
12 27	6 14.89	+ 2 54.0	2.080	3.021	6.6	19.8	12 27	6 14.60	+24 34.0	1.746	2.729	0.9	19.9
1 6	6 5.51	+ 3 18.6	2.085	3.008	7.8	19.8	1 6	6 3.28	+24 53.2	1.764	2.726	5.3	20.2
1 16	5 57.06	+ 3 58.3	2.117	2.994	10.2	20.0	1 16	5 53.35	+25 7.5	1.811	2.723	9.6	20.5
1 26	5 50.35	+ 4 50.1	2.175	2.980	12.8	20.1	1 26	5 45.82	+25 17.9	1.883	2.718	13.2	20.7
270273	2001 <i>UG</i> ₁₈₇		12 25.4	124°66'	3°7/25.1	18	319975	2007 <i>CB</i> ₁₈		12 25.4	347°24'	0°2/25.4	17
11 17	6 51.89	+30 54.3	1.783	2.562	16.4	21.3	11 17	6 43.94	+21 56.6	2.019	2.803	14.5	21.4
11 27	6 46.48	+31 39.6	1.709	2.574	13.0	21.1	11 27	6 39.77	+22 8.2	1.932	2.802	11.4	21.2
12 7	6 37.85	+32 22.3	1.657	2.585	9.2	20.9	12 7	6 33.09	+22 22.7	1.867	2.802	7.8	20.9
12 17	6 26.74	+32 56.8	1.631	2.596	5.3	20.7	12 17	6 24.49	+22 38.6	1.828	2.801	3.7	20.7
12 27	6 14.43	+33 18.2	1.633	2.607	3.8	20.6	12 27	6 14.91	+22 54.1	1.818	2.801	0.7	20.5
1 6	6 2.48	+33 24.5	1.664	2.617	6.7	20.8	1 6	6 5.48	+23 7.7	1.837	2.800	5.0	20.8
1 16	5 52.34	+33 17.1	1.723	2.627	10.5	21.0	1 16	5 57.31	+23 19.3	1.885	2.800	9.0	21.0
1 26	5 45.06	+33 0.1	1.805	2.636	13.9	21.3	1 26	5 51.28	+23 29.1	1.957	2.800	12.5	21.2
458000	2009 <i>WP</i> ₆₅		12 25.4	242°83'	2°5/25.0	18	82616	2001 <i>OP</i> ₁₀₁		12 25.4	39°54'	0°4/25.4	18
11 17	6 44.98	+28 34.6	2.263	3.040	13.4	21.5	11 17	6 45.08	+23 7.7	1.683	2.479	16.5	19.5
11 27	6 40.49	+29 16.1	2.174	3.039	10.6	21.3	11 27	6 41.10	+23 26.7	1.609	2.486	13.0	19.3
12 7	6 33.54	+29 57.2	2.107	3.038	7.3	21.1	12 7	6 34.19	+23 48.8	1.556	2.493	8.8	19.0
12 17	6 24.68	+30 34.4	2.068	3.036	4.0	20.9	12 17	6 25.04	+24 11.3	1.527	2.501	4.1	18.8
12 27	6 14.81	+31 4.2	2.058	3.035	2.6	20.8	12 27	6 14.81	+24 31.4	1.527	2.510	0.9	18.6
1 6	6 5.05	+31 24.6	2.078	3.034	5.3	20.9	1 6	6 4.88	+24 47.4	1.555	2.518	5.6	18.9
1 16	5 56.46	+31 35.3	2.127	3.032	8.7	21.1	1 16	5 56.54	+24 58.9	1.609	2.527	10.0	19.2
1 26	5 49.96	+31 38.1	2.201	3.031	11.8	21.3	1 26	5 50.77	+25 7.1	1.688	2.537	13.8	19.5
335676	2006 <i>UP</i> ₂₇₉		12 25.4	213°46'	2°3/25.2	18	129260	2005 <i>QC</i> ₈₄		12 25.4	118°39'	0°9/25.4	18
11 17	6 49.92	+26 42.4	1.632	2.422	17.2	21.8	11 17	6 45.87	+25 24.2	2.105	2.885	14.2	20.6
11 27	6 45.33	+27 19.0	1.546	2.418	13.7	21.5	11 27	6 41.14	+25 35.3	2.023	2.891	11.1	20.4
12 7	6 37.37	+27 57.1	1.480	2.415	9.4	21.3	12 7	6 33.92	+25 46.4	1.963	2.897	7.6	20.2
12 17	6 26.65	+28 32.2	1.439	2.411	4.8	21.0	12 17	6 24.84	+25 55.4	1.930	2.903	3.6	20.0
12 27	6 14.43	+28 59.3	1.426	2.406	2.5	20.8	12 27	6 14.86	+26 0.2	1.926	2.908	1.1	19.8
1 6	6 2.35	+29 15.6	1.441	2.401	6.5	21.1	1 6	6 5.13	+26 0.1	1.952	2.914	4.9	20.1
1 16	5 51.99	+29 21.3	1.484	2.396	11.2	21.3	1 16	5 56.71	+25 55.6	2.006	2.919	8.7	20.3
1 26	5 44.59	+29 19.1	1.549	2.391	15.3	21.6	1 26	5 50.46	+25 48.3	2.087	2.925	12.0	20.6
306018	2010 <i>DE</i> ₂₅		12 25.4	183°72'	4°3/25.7	18	168549	1999 <i>VR</i> ₂₀₉		12 25.4	19°38'	1°0/25.4	18
11 17	6 45.05	+11 34.3	2.179	2.939	14.4	21.2	11 17	6 44.55	+22 53.5	1.379	2.190	18.8	19.2
11 27	6 40.25	+11 5.7	2.090	2.939	11.6	21.1	11 27	6 41.17	+22 25.6	1.310	2.195	14.8	18.9
12 7	6 33.20	+10 44.8	2.023	2.939	8.5	20.9	12 7	6 34.46	+21 58.2	1.260	2.201	10.1	18.7
12 17	6 24.46	+10 33.2	1.983	2.939	5.5	20.7	12 17	6 25.21	+21 30.9	1.234	2.208	4.8	18.4
12 27	6 14.88	+10 31.8	1.971	2.938	4.3	20.6	12 27	6 14.81	+21 3.9	1.233	2.216	1.3	18.2
1 6	6 5.44	+10 40.6	1.989	2.936	6.3	20.6	1 6	6 4.88	+20 38.1	1.259	2.225	6.4	18.5
1 16	5 57.11	+10 58.7	2.036	2.934	9.4	20.9	1 16	5 56.88	+20 15.5	1.311	2.234	11.4	18.8
1 26	5 50.70	+11 24.4	2.107	2.932	12.4	21.1	1 26	5 51.83	+19 57.7	1.385	2.244	15.7	19.1
359640	2011 <i>QF</i> ₇₀		12 25.4	110°66'	14°7/26.1	18	275896	2001 <i>TG</i> ₆₂		12 25.4			

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
94160	2001 AX ₁₄	12 25.4 86°34'		4.7°/26.2 18			517264	2014 EY ₁₃₁	12 25.4 172°57'		8.7°/26.2 18		
11 17	6 42.58	+ 8 46.9	2.188	2.945	14.4	19.4	11 17	6 44.78	+ 0 57.7	1.938	2.673	16.7	22.1
11 27	6 38.23	+ 8 32.1	2.112	2.957	11.7	19.2	11 27	6 40.27	+ 0 2.1	1.858	2.675	14.3	21.9
12 7	6 31.78	+ 8 27.9	2.057	2.968	8.7	19.0	12 7	6 33.36	- 0 38.1	1.798	2.677	11.7	21.7
12 17	6 23.79	+ 8 35.8	2.028	2.979	5.9	18.9	12 17	6 24.62	- 0 58.3	1.762	2.678	9.5	21.6
12 27	6 15.08	+ 8 56.0	2.028	2.990	4.7	18.8	12 27	6 14.96	- 0 55.5	1.752	2.679	8.7	21.6
1 6	6 6.59	+ 9 27.4	2.057	3.001	6.3	18.9	1 6	6 5.48	- 0 29.5	1.769	2.680	9.8	21.6
1 16	5 59.19	+10 7.9	2.113	3.012	9.1	19.1	1 16	5 57.20	+ 0 17.3	1.811	2.680	12.0	21.8
1 26	5 53.61	+10 55.0	2.196	3.023	11.9	19.3	1 26	5 50.99	+ 1 20.1	1.877	2.679	14.6	21.9
357466	2004 EK ₉₁	12 25.4 114°13'		3°5'/25.2 18			470093	2006 SR ₄₀₆	12 25.4 63°05'		1°8'/25.4 16		
11 17	6 48.16	+31 49.0	1.975	2.754	15.0	21.0	11 17	6 53.03	+26 44.2	1.258	2.062	20.6	21.7
11 27	6 43.32	+32 19.3	1.894	2.758	12.0	20.8	11 27	6 47.92	+26 58.7	1.208	2.088	16.1	21.5
12 7	6 35.61	+32 45.7	1.835	2.763	8.5	20.6	12 7	6 38.99	+27 12.1	1.177	2.115	10.9	21.3
12 17	6 25.70	+33 4.0	1.802	2.767	5.0	20.4	12 17	6 27.27	+27 20.0	1.169	2.142	5.3	21.0
12 27	6 14.72	+33 10.5	1.798	2.772	3.5	20.3	12 27	6 14.50	+27 19.1	1.188	2.170	2.0	20.9
1 6	6 4.03	+33 4.1	1.823	2.776	6.1	20.5	1 6	6 2.64	+27 8.9	1.233	2.197	6.8	21.3
1 16	5 54.88	+32 46.3	1.875	2.780	9.7	20.7	1 16	5 53.28	+26 52.1	1.304	2.224	11.8	21.6
1 26	5 48.25	+32 20.6	1.952	2.784	13.0	20.9	1 26	5 47.42	+26 32.5	1.397	2.250	15.9	22.0
86637	2000 EO ₁₃₄	12 25.4 128°84'		1°1'/25.3 18			154518	2003 FM ₇₁	12 25.4 178°88'		0°9'/25.3 18		
11 17	6 49.90	+23 48.3	1.774	2.556	16.3	19.8	11 17	6 48.93	+24 41.1	1.982	2.759	15.0	20.9
11 27	6 44.77	+24 23.8	1.697	2.566	12.8	19.6	11 27	6 43.78	+24 59.8	1.894	2.761	11.8	20.7
12 7	6 36.65	+25 2.5	1.642	2.576	8.7	19.3	12 7	6 35.89	+25 19.9	1.829	2.762	8.1	20.5
12 17	6 26.21	+25 40.7	1.613	2.586	4.1	19.1	12 17	6 25.85	+25 38.5	1.790	2.762	3.9	20.2
12 27	6 14.63	+26 14.5	1.613	2.595	1.3	18.9	12 27	6 14.73	+25 52.8	1.780	2.762	1.2	20.0
1 6	6 3.32	+26 41.2	1.642	2.604	5.7	19.2	1 6	6 3.78	+26 1.6	1.800	2.762	5.3	20.3
1 16	5 53.62	+27 0.5	1.699	2.612	10.0	19.5	1 16	5 54.23	+26 4.8	1.849	2.761	9.4	20.6
1 26	5 46.56	+27 13.6	1.781	2.620	13.7	19.7	1 26	5 47.07	+26 4.2	1.923	2.759	13.0	20.8
327593	2006 DP ₁₈₈	12 25.4 159°43'		0°2'/25.4 18			406633	2008 CM ₁₈₆	12 25.4 299°18'		4°1'/26.3 17		
11 17	6 42.92	+22 4.7	3.029	3.792	10.7	22.5	11 17	6 59.15	+37 8.3	1.059	1.864	23.6	20.5
11 27	6 38.02	+22 11.2	2.939	3.798	8.3	22.3	11 27	6 54.67	+36 12.4	0.974	1.851	19.3	20.2
12 7	6 31.42	+22 19.2	2.874	3.804	5.6	22.1	12 7	6 44.76	+34 52.7	0.905	1.838	14.0	19.8
12 17	6 23.58	+22 27.5	2.837	3.810	2.6	22.0	12 17	6 30.40	+33 1.4	0.857	1.825	7.9	19.4
12 27	6 15.14	+22 35.1	2.832	3.815	0.5	21.8	12 27	6 13.88	+30 36.6	0.834	1.813	4.1	19.2
1 6	6 6.84	+22 41.6	2.858	3.819	3.6	22.0	1 6	5 58.16	+27 47.5	0.836	1.801	9.0	19.4
1 16	5 59.38	+22 46.8	2.914	3.823	6.5	22.2	1 16	5 45.82	+24 51.8	0.864	1.789	15.5	19.7
1 26	5 53.36	+22 51.1	2.998	3.827	9.0	22.4	1 26	5 38.40	+22 7.5	0.913	1.778	21.3	20.0
306635	2000 SP ₁₆	12 25.4 52°21'		3°3'/25.3 18			23696	1997 MV ₄	12 25.4 88°48'		1°4'/25.7 18		
11 17	6 46.93	+18 23.3	1.470	2.267	18.5	19.7	11 17	6 43.17	+17 29.0	2.251	3.025	13.6	18.4
11 27	6 42.61	+17 33.3	1.404	2.280	14.6	19.4	11 27	6 38.80	+17 44.1	2.168	3.032	10.7	18.3
12 7	6 35.18	+16 47.1	1.358	2.292	10.2	19.2	12 7	6 32.25	+18 5.2	2.108	3.038	7.3	18.1
12 17	6 25.47	+16 6.1	1.336	2.305	5.5	19.0	12 17	6 24.07	+18 31.3	2.074	3.045	3.7	17.9
12 27	6 14.79	+15 32.3	1.341	2.319	3.4	18.9	12 27	6 15.07	+19 0.7	2.070	3.051	1.5	17.7
1 6	6 4.63	+15 7.2	1.373	2.333	6.9	19.1	1 6	6 6.24	+19 31.9	2.096	3.058	4.7	17.9
1 16	5 56.29	+14 51.6	1.432	2.346	11.3	19.4	1 16	5 58.50	+20 3.5	2.151	3.064	8.2	18.2
1 26	5 50.74	+14 45.5	1.513	2.361	15.2	19.7	1 26	5 52.61	+20 34.7	2.232	3.070	11.3	18.4
282865	2007 DB ₉₇	12 25.4 246°42'		1°6'/25.5 18			217115	2001 YD ₁₁₇	12 25.4 23°78'		2°4'/25.3 18		
11 17	6 47.44	+19 21.4	1.861	2.641	15.8	21.6	11 17	6 45.78	+27 45.2	1.253	2.069	19.9	19.6
11 27	6 42.87	+19 13.7	1.760	2.627	12.6	21.4	11 27	6 42.68	+28 3.5	1.189	2.077	15.7	19.3
12 7	6 35.45	+19 10.1	1.679	2.612	8.7	21.1	12 7	6 35.79	+28 20.4	1.144	2.085	10.8	19.1
12 17	6 25.73	+19 10.0	1.625	2.597	4.4	20.8	12 17	6 25.94	+28 31.4	1.122	2.095	5.5	18.8
12 27	6 14.71	+19 12.6	1.599	2.581	1.8	20.6	12 27	6 14.72	+28 32.7	1.124	2.105	2.6	18.7
1 6	6 3.68	+19 17.2	1.603	2.564	5.8	20.8	1 6	6 4.05	+28 23.4	1.152	2.116	7.1	19.0
1 16	5 53.96	+19 23.6	1.634	2.547	10.3	21.1	1 16	5 55.62	+28 5.5	1.205	2.128	12.2	19.3
1 26	5 46.62	+19 32.2	1.690	2.530	14.3	21.3	1 26	5 50.59	+27 43.2	1.279	2.141	16.5	19.6
23521	1992 US ₁	12 25.4 71°70'		4°4'/24.9 18 R			488071	2015 UO ₈₂	12 25.4 1°36'		1°2'/25.5 18		
11 17	6 51.82	+30 6.5	1.384	2.183	19.3	17.8	11 17	6 44.54	+19 59.0	1.775	2.565	16.0	21.5
11 27	6 47.25	+31 8.8	1.322	2.198	15.3	17.6	11 27	6 40.54	+19 57.0	1.692	2.565	12.7	21.2
12 7	6 38.82	+32 9.8	1.280	2.213	10.8	17.3	12 7	6 33.78	+19 59.3	1.629	2.565	8.7	21.0
12 17	6 27.35	+33 2.0	1.262	2.228	6.3	17.1	12 17	6 24.89	+20 4.9	1.592	2.565	4.2	20.7
12 27	6 14.44	+33 38.2	1.270	2.244	4.6	17.1	12 27	6 14.91	+20 12.8	1.583	2.565	1.4	20.5
1 6	6 2.05	+33 55.3	1.305	2.259	7.9	17.3	1 6	6 5.15	+20 21.9	1.602	2.565	5.6	20.8
1 16	5 51.95	+33 55.1	1.365	2.274	12.2	17.6	1 16	5 56.80	+20 32.0	1.648	2.566	9.9	21.1
1 26	5 45.36	+33 42.5	1.448	2.290	16.1	17.9	1 26	5 50.84	+20 43.0	1.719	2.566	13.7	21.3
496714	2016 FP ₅	12 25.4 324°36'		1°7'/24.9 18			76549	2000 GG ₈₅	12 25.4 22°08'		4°4'/26.5 18		
11 17	6 44.52	+24 2.6	2.196	2.975	13.7	20.4	11 17	6 42.95	+ 9 59.0	1.424	2.216	19.2	17.2
11 27	6 40.31	+25 10.4	2.099	2.967	10.8	20.1	11 27	6 39.74	+10 24.7	1.356	2.224	15.5	16.9
12 7	6 33.59	+26 23.7	2.026	2.959	7.4	19.9	12 7	6 33.46	+11 8.4	1.306	2.233	11.2	16.7
12 17	6 24.83	+27 38.2	1.980	2.952	3.7	19.7	12 17	6 24.79	+12 10.0	1.279	2.243	6.8	16.5
12 27	6 14.89	+28 49.3	1.964	2.944	1.9	19.5	12 27	6 14.94	+13 26.6	1.279	2.254	4.4	16.4
1 6	6 4.87	+29 52.7	1.979	2.937	5.3	19.8	1 6	6 5.35	+14 52.9	1.306	2.266	7.1	16.6
1 16	5 55.90	+30 46.3	2.023	2.931	8.9	20.0	1 16	5 57.42	+16 22.9	1.359	2.278	11.4	16.9
1 26	5 48.99	+31 29.8	2.093	2.924	12.2	20.2	1 26	5 52.19	+17 51.6	1.435	2.292	15.4	17.1
454545	2014 OE ₃₅₃	12 25.4 110°83'		2°4'/25.6 18			30175	Adityajain	12 25.4 177°54'		0°7'/25.4 18		
11 17	6 44.05	+16 50.0	2.041	2.818	14.6	21.8	11 17	6 46.57	+25 7.9	2.333	3.1		

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
183617	2003 <i>UF</i> ₂₁₈		12 25.4	37°48'	4.3°/25.7	18	270978	2002 <i>VN</i> ₁₄₄		12 25.4	100°18'	0.4°/25.5	18
11 17	6 45.50	+15 27.2	1.127	1.944	21.7	20.1	11 17	6 43.27	+21 17.1	2.608	3.378	12.0	21.2
11 27	6 42.33	+14 57.0	1.071	1.956	17.3	19.8	11 27	6 38.51	+21 23.4	2.531	3.394	9.4	21.0
12 7	6 35.44	+14 37.4	1.032	1.969	12.2	19.6	12 7	6 31.86	+21 31.7	2.478	3.409	6.3	20.8
12 17	6 25.74	+14 30.0	1.014	1.983	7.0	19.3	12 17	6 23.84	+21 41.2	2.452	3.424	3.0	20.6
12 27	6 14.78	+14 35.2	1.020	1.998	4.4	19.2	12 27	6 15.20	+21 50.6	2.457	3.440	0.7	20.5
1 6	6 4.43	+14 51.7	1.051	2.013	8.1	19.5	1 6	6 6.80	+21 59.3	2.492	3.454	4.0	20.7
1 16	5 56.28	+15 17.5	1.106	2.029	13.1	19.8	1 16	5 59.39	+22 7.1	2.558	3.469	7.1	21.0
1 26	5 51.46	+15 49.9	1.182	2.046	17.5	20.1	1 26	5 53.64	+22 14.3	2.650	3.484	9.9	21.2
363342	2002 <i>QB</i> ₂		12 25.4	86°60'	0.1°/25.4	18	504439	2008 <i>BR</i> ₄₂		12 25.4	296°85'	14.9°/27.8	17
11 17	6 44.31	+23 28.2	2.384	3.159	12.9	21.2	11 17	7 8.33	+52 28.8	1.129	1.890	25.0	21.2
11 27	6 39.47	+23 23.8	2.309	3.174	10.0	21.1	11 27	7 3.65	+53 23.7	1.057	1.883	22.1	21.0
12 7	6 32.56	+23 19.8	2.257	3.190	6.8	20.9	12 7	6 51.80	+53 53.2	1.000	1.876	19.0	20.7
12 17	6 24.15	+23 15.2	2.232	3.205	3.2	20.7	12 17	6 33.94	+53 39.0	0.961	1.869	16.2	20.5
12 27	6 15.09	+23 9.1	2.237	3.220	0.6	20.5	12 27	6 13.34	+52 25.6	0.942	1.863	14.9	20.5
1 6	6 6.33	+23 1.4	2.273	3.236	4.3	20.8	1 6	5 54.35	+50 12.5	0.944	1.857	15.9	20.5
1 16	5 58.72	+22 52.6	2.338	3.251	7.6	21.1	1 16	5 40.38	+47 14.9	0.969	1.851	18.7	20.6
1 26	5 52.96	+22 43.8	2.430	3.266	10.6	21.3	1 26	5 32.95	+43 56.2	1.014	1.845	22.2	20.8
210829	2001 <i>OV</i> ₄₅		12 25.4	200°33'	2.6°/25.9	18	58077	2209 <i>T</i> ₋₂		12 25.4	23°26'	1.6°/25.5	18
11 17	6 45.51	+13 0.3	2.668	3.417	12.3	21.4	11 17	6 43.88	+19 47.8	1.775	2.566	16.0	19.6
11 27	6 40.31	+13 10.4	2.566	3.412	9.8	21.3	11 27	6 39.96	+19 35.2	1.695	2.569	12.6	19.3
12 7	6 33.15	+13 28.1	2.488	3.407	7.0	21.1	12 7	6 33.35	+19 26.2	1.637	2.572	8.7	19.1
12 17	6 24.49	+13 53.2	2.438	3.401	4.1	20.9	12 17	6 24.69	+19 20.5	1.604	2.576	4.3	18.9
12 27	6 15.02	+14 24.8	2.419	3.394	2.6	20.8	12 27	6 15.05	+19 17.7	1.598	2.580	1.7	18.7
1 6	6 5.57	+15 1.7	2.432	3.386	4.7	20.9	1 6	6 5.66	+19 17.4	1.621	2.584	5.6	19.0
1 16	5 56.99	+15 42.1	2.475	3.378	7.7	21.1	1 16	5 57.70	+19 19.6	1.671	2.589	9.8	19.2
1 26	5 49.98	+16 24.7	2.545	3.369	10.6	21.2	1 26	5 52.10	+19 24.5	1.746	2.593	13.5	19.5
491361	2012 <i>BY</i> ₁₂		12 25.4	329°18'	1.9°/25.5	17	285688	2000 <i>SS</i> ₁₆₃		12 25.4	139°39'	14.8°/25.2	18
11 17	6 45.77	+29 5.7	1.778	2.569	15.9	21.3	11 17	7 7.73	+51 27.2	1.328	2.075	22.5	20.7
11 27	6 41.73	+28 59.5	1.688	2.562	12.7	21.0	11 27	7 2.55	+53 24.0	1.269	2.081	19.8	20.5
12 7	6 34.71	+28 49.1	1.620	2.555	8.8	20.8	12 7	6 50.90	+55 2.4	1.227	2.087	17.3	20.4
12 17	6 25.36	+28 31.9	1.576	2.548	4.5	20.5	12 17	6 33.60	+56 5.1	1.204	2.092	15.3	20.3
12 27	6 14.85	+28 6.0	1.561	2.542	2.0	20.3	12 27	6 13.36	+56 17.5	1.203	2.097	14.8	20.2
1 6	6 4.59	+27 32.0	1.573	2.536	5.8	20.6	1 6	5 54.09	+55 36.2	1.224	2.102	15.9	20.3
1 16	5 55.91	+26 52.4	1.613	2.530	10.1	20.8	1 16	5 39.16	+54 10.3	1.266	2.106	18.0	20.5
1 26	5 49.84	+26 10.8	1.678	2.525	14.0	21.0	1 26	5 30.41	+52 16.6	1.326	2.109	20.5	20.7
11742	1999 <i>JZ</i> ₅		12 25.4	222°62'	0.5°/25.5	18	206005	2002 <i>PZ</i> ₉₅		12 25.4	101°74'	4.2°/25.5	18
11 17	6 44.46	+20 38.6	2.049	2.830	14.5	18.6	11 17	6 53.04	+35 12.3	2.046	2.811	15.0	20.5
11 27	6 40.15	+20 53.2	1.960	2.829	11.4	18.4	11 27	6 46.86	+35 35.0	1.979	2.832	12.0	20.4
12 7	6 33.38	+21 12.0	1.894	2.828	7.8	18.2	12 7	6 37.81	+35 50.5	1.934	2.853	8.7	20.2
12 17	6 24.68	+21 33.5	1.854	2.827	3.7	17.9	12 17	6 26.68	+35 54.0	1.915	2.873	5.5	20.0
12 27	6 14.99	+21 55.7	1.843	2.826	0.8	17.7	12 27	6 14.71	+35 42.7	1.925	2.893	4.2	20.0
1 6	6 5.43	+22 17.1	1.862	2.825	5.0	18.0	1 6	6 3.29	+35 16.4	1.965	2.913	6.3	20.2
1 16	5 57.08	+22 36.8	1.909	2.823	8.9	18.3	1 16	5 53.64	+34 38.3	2.033	2.932	12.4	20.4
1 26	5 50.85	+22 54.8	1.981	2.822	12.4	18.5	1 26	5 46.63	+33 53.1	2.127	2.950	19.4	20.6
520527	2014 <i>MH</i> ₄₉		12 25.4	192°56'	1.1°/25.6	18	175707	1996 <i>QA</i> ₁		12 25.4	65°03'	4.1°/26.1	18
11 17	6 46.18	+17 46.0	2.306	3.072	13.5	21.7	11 17	6 45.60	+11 43.5	1.804	2.576	16.5	19.9
11 27	6 41.22	+18 14.4	2.211	3.070	10.7	21.5	11 27	6 40.90	+11 33.8	1.744	2.601	13.2	19.8
12 7	6 33.97	+18 49.3	2.139	3.069	7.3	21.3	12 7	6 33.72	+11 34.8	1.705	2.626	9.5	19.6
12 17	6 24.94	+19 29.3	2.095	3.066	3.6	21.1	12 17	6 24.76	+11 47.1	1.691	2.651	5.8	19.4
12 27	6 14.94	+20 12.1	2.081	3.063	1.2	20.9	12 27	6 15.06	+12 10.2	1.705	2.676	4.1	19.4
1 6	6 5.00	+20 55.4	2.099	3.060	4.7	21.1	1 6	6 5.79	+12 42.4	1.747	2.701	6.4	19.6
1 16	5 56.10	+21 37.4	2.146	3.056	8.3	21.4	1 16	5 57.97	+13 21.4	1.818	2.726	9.8	19.8
1 26	5 49.09	+22 17.1	2.220	3.052	11.6	21.6	1 26	5 52.38	+14 4.7	1.913	2.750	13.0	20.1
511035	2013 <i>RJ</i> ₁₉		12 25.4	56°47'	5.7°/25.9	18	239735	2009 <i>CH</i> ₄₄		12 25.4	65°29'	6.6°/26.3	18
11 17	6 47.82	+12 12.7	1.191	1.993	21.6	20.8	11 17	6 38.65	+ 0 5.1	2.807	3.525	12.4	20.5
11 27	6 43.79	+11 36.0	1.138	2.012	17.4	20.6	11 27	6 34.78	+ 0 33.3	2.723	3.527	10.6	20.4
12 7	6 36.22	+11 13.0	1.103	2.032	12.6	20.4	12 7	6 29.31	+ 0 59.7	2.660	3.528	8.7	20.3
12 17	6 26.04	+11 6.2	1.090	2.052	7.9	20.2	12 17	6 22.67	+ 1 11.6	2.622	3.529	7.2	20.2
12 27	6 14.77	+11 16.2	1.101	2.073	5.8	20.2	12 27	6 15.45	+ 1 7.3	2.612	3.530	6.6	20.1
1 6	6 4.17	+11 41.5	1.138	2.094	8.6	20.4	1 6	6 8.35	+ 0 46.8	2.630	3.532	7.4	20.2
1 16	5 55.73	+12 18.9	1.199	2.115	13.0	20.7	1 16	6 2.00	+ 0 11.6	2.675	3.533	9.0	20.3
1 26	5 50.48	+13 4.4	1.282	2.136	17.0	21.0	1 26	5 57.00	+ 0 35.7	2.745	3.534	10.8	20.4
400048	2006 <i>RX</i> ₁₀₇		12 25.4	225°05'	5.4°/25.7	18	60164	1999 <i>UF</i> ₂₈		12 25.4	357°00'	1.0°/25.5	18
11 17	6 44.14	+ 7 40.1	2.373	3.118	13.7	22.3	11 17	6 43.30	+20 46.7	1.988	2.773	14.7	19.8
11 27	6 39.46	+ 7 1.3	2.273	3.108	11.4	22.1	11 27	6 39.29	+20 41.7	1.902	2.773	11.6	19.6
12 7	6 32.69	+ 6 31.2	2.195	3.097	8.7	22.0	12 7	6 32.81	+20 39.7	1.837	2.772	7.9	19.4
12 17	6 24.31	+ 6 12.4	2.143	3.085	6.4	21.8	12 17	6 24.44	+20 39.7	1.799	2.772	3.8	19.1
12 27	6 15.07	+ 6 6.6	2.120	3.073	5.5	21.7	12 27	6 15.13	+20 41.0	1.789	2.771	1.2	18.9
1 6	6 5.87	+ 6 14.3	2.126	3.060	6.9	21.8	1 6	6 6.00	+20 43.1	1.808	2.771	5.1	19.2
1 16	5 57.61	+ 6 34.6	2.161	3.047	9.6	21.9	1 16	5 58.13	+20 45.8	1.855	2.772	9.1	19.5
1 26	5 51.05	+ 7 5.6	2.221	3.033	12.3	22.1	1 26	5 52.39	+20 49.7	1.928	2.772	12.6	19.7
346291	2008 <i>OM</i> ₂₀		12 25.4	146°58'	0.4°/25.4	18	70172	1999 <i>OQ</i> ₄	</				

EPHEMERIDES

12 25.4

12 25.5

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
261870	2006 <i>FJ</i> ₄₉		12 25.4 278°84	5°4/26.4	18		129143	2005 <i>BZ</i> ₁₆		12 25.5 36°81	1°3/25.3	18	
11 17	6 41.73	+ 5 45.7	2.365	3.109	13.8	20.6	11 17	6 46.64	+25 11.7	1.591	2.388	17.3	20.1
11 27	6 37.70	+ 5 37.6	2.259	3.093	11.5	20.4	11 27	6 42.65	+25 33.5	1.515	2.393	13.6	19.9
12 7	6 31.60	+ 5 41.8	2.175	3.076	8.9	20.2	12 7	6 35.48	+25 56.9	1.459	2.397	9.3	19.6
12 17	6 23.88	+ 6 0.2	2.117	3.059	6.4	20.0	12 17	6 25.83	+26 18.4	1.428	2.402	4.5	19.4
12 27	6 15.23	+ 6 33.5	2.087	3.042	5.4	20.0	12 27	6 14.94	+26 34.6	1.425	2.407	1.5	19.2
1 6	6 6.55	+ 7 20.7	2.087	3.025	6.7	20.0	1 6	6 4.35	+26 43.9	1.449	2.412	6.0	19.5
1 16	5 58.73	+ 8 19.4	2.114	3.007	9.4	20.1	1 16	5 55.48	+26 46.5	1.499	2.417	10.6	19.8
1 26	5 52.55	+ 9 26.6	2.168	2.990	12.2	20.3	1 26	5 49.42	+26 44.4	1.573	2.423	14.6	20.0
370829	2004 <i>VL</i> ₅₅		12 25.4 1°25	19°9/10.1	17		66105	1998 <i>SW</i> ₂₅		12 25.5 100°91	2°0/25.7	18	
11 17	6 28.74	+23 5.1	0.513	1.414	27.8	19.1	11 17	6 43.98	+16 22.6	2.466	3.231	12.8	20.1
11 27	6 31.53	+14 12.0	0.469	1.400	23.1	18.8	11 27	6 39.09	+16 17.9	2.392	3.249	10.1	19.9
12 7	6 29.13	+ 4 24.7	0.448	1.394	20.1	18.6	12 7	6 32.29	+16 18.3	2.342	3.268	7.0	19.7
12 17	6 22.99	- 4 56.1	0.452	1.394	20.8	18.6	12 17	6 24.09	+16 23.5	2.319	3.286	3.8	19.6
12 27	6 15.45	-12 31.4	0.480	1.400	24.3	18.9	12 27	6 15.28	+16 33.0	2.325	3.304	2.1	19.5
1 6	6 8.97	-17 46.6	0.524	1.414	28.2	19.2	1 6	6 6.73	+16 46.0	2.363	3.321	4.5	19.7
1 16	6 5.35	-20 49.5	0.582	1.433	31.3	19.5	1 16	5 59.23	+17 2.0	2.430	3.338	7.6	19.9
1 26	6 5.65	-22 7.9	0.647	1.459	33.4	19.9	1 26	5 53.43	+17 20.2	2.524	3.355	10.4	20.1
393389	2000 <i>QG</i> ₂		12 25.4 73°91	8°4/27.5	18		2801	Huygens		12 25.5 84°21	4°3/25.1	18	
11 17	6 46.50	- 2 8.7	2.147	2.856	16.0	21.4	11 17	6 49.73	+33 24.8	2.009	2.783	15.0	16.4
11 27	6 40.98	- 2 50.2	2.099	2.895	13.6	21.3	11 27	6 44.51	+34 15.0	1.941	2.800	12.0	16.2
12 7	6 33.45	- 3 14.0	2.072	2.932	11.2	21.2	12 7	6 36.42	+35 0.8	1.896	2.818	8.6	16.0
12 17	6 24.55	- 3 16.9	2.070	2.970	9.2	21.2	12 17	6 26.16	+35 36.8	1.876	2.835	5.5	15.9
12 27	6 15.16	- 2 57.8	2.094	3.007	8.4	21.2	12 27	6 14.91	+35 58.6	1.885	2.853	4.4	15.8
1 6	6 6.22	- 2 18.4	2.145	3.043	9.0	21.3	1 6	6 4.02	+36 4.8	1.923	2.870	6.5	16.0
1 16	5 58.55	- 1 21.9	2.224	3.078	10.7	21.5	1 16	5 54.75	+35 56.7	1.989	2.887	9.6	16.2
1 26	5 52.77	- 0 13.3	2.327	3.113	12.6	21.6	1 26	5 48.04	+35 38.1	2.080	2.903	12.6	16.5
432592	2010 <i>RO</i> ₁₂₃		12 25.4 21°42	0°7/25.4	18		139233	2001 <i>HT</i> ₁₈		12 25.5 180°72	4°9/25.8	18	
11 17	6 46.11	+25 21.7	1.056	1.885	22.0	21.0	11 17	6 44.63	+ 9 11.6	2.321	3.071	13.9	21.3
11 27	6 43.49	+25 15.7	0.995	1.890	17.4	20.7	11 27	6 39.82	+ 8 36.2	2.232	3.072	11.3	21.1
12 7	6 36.64	+25 9.5	0.951	1.896	11.9	20.4	12 7	6 32.92	+ 8 9.4	2.165	3.073	8.5	20.9
12 17	6 26.48	+25 0.3	0.928	1.904	5.6	20.1	12 17	6 24.46	+ 7 53.0	2.125	3.073	6.0	20.7
12 27	6 14.78	+24 45.8	0.929	1.912	1.3	19.8	12 27	6 15.22	+ 7 48.5	2.114	3.072	5.0	20.7
1 6	6 3.70	+24 26.2	0.954	1.921	7.5	20.3	1 6	6 6.12	+ 7 55.9	2.132	3.071	6.5	20.8
1 16	5 55.15	+24 4.0	1.002	1.932	13.3	20.6	1 16	5 58.05	+ 8 14.4	2.179	3.070	9.2	20.9
1 26	5 50.40	+23 42.7	1.071	1.943	18.2	20.9	1 26	5 51.73	+ 8 42.2	2.251	3.068	12.0	21.1
150177	1998 <i>FR</i>		12 25.4 108°90	0°8/25.5	18		291656	2006 <i>HK</i> ₅₅		12 25.5 303°55	1°9/25.7	18	
11 17	6 44.64	+20 26.7	2.143	2.921	14.0	20.7	11 17	6 44.36	+17 20.5	1.589	2.383	17.4	20.2
11 27	6 40.09	+20 31.7	2.062	2.928	11.0	20.5	11 27	6 40.98	+17 31.9	1.495	2.370	13.9	19.9
12 7	6 33.21	+20 40.2	2.002	2.935	7.5	20.3	12 7	6 34.51	+17 52.2	1.422	2.357	9.7	19.7
12 17	6 24.59	+20 50.9	1.970	2.942	3.6	20.1	12 17	6 25.49	+18 20.7	1.372	2.344	5.0	19.4
12 27	6 15.13	+21 2.6	1.966	2.949	1.0	19.9	12 27	6 15.01	+18 55.6	1.350	2.331	2.0	19.1
1 6	6 5.89	+21 14.3	1.993	2.956	4.7	20.2	1 6	6 4.50	+19 34.2	1.355	2.319	6.3	19.4
1 16	5 57.85	+21 25.6	2.048	2.962	8.5	20.4	1 16	5 55.42	+20 14.2	1.387	2.307	11.2	19.6
1 26	5 51.82	+21 36.7	2.129	2.968	11.8	20.6	1 26	5 48.98	+20 54.1	1.442	2.295	15.5	19.9
416440	2003 <i>UL</i> ₃₅₅		12 25.4 338°20	5°6/24.5	17		430941	2005 <i>UT</i> ₂₁₈		12 25.5 162°31	1°4/25.4	18	
11 17	6 47.07	+36 26.0	2.146	2.917	14.2	21.2	11 17	6 51.02	+26 44.7	1.966	2.740	15.2	22.0
11 27	6 42.69	+37 35.3	2.061	2.914	11.6	21.0	11 27	6 45.44	+26 56.9	1.882	2.746	12.0	21.8
12 7	6 35.41	+38 40.3	1.998	2.911	8.8	20.8	12 7	6 37.04	+27 8.3	1.820	2.752	8.2	21.6
12 17	6 25.79	+39 34.8	1.961	2.909	6.3	20.7	12 17	6 26.47	+27 15.6	1.785	2.757	4.0	21.3
12 27	6 14.90	+40 13.4	1.952	2.907	5.7	20.6	12 27	6 14.86	+27 16.4	1.779	2.761	1.6	21.2
1 6	6 4.07	+40 33.1	1.972	2.905	7.4	20.7	1 6	6 3.53	+27 10.0	1.803	2.764	5.4	21.4
1 16	5 54.64	+40 34.6	2.018	2.903	10.2	20.9	1 16	5 53.72	+26 57.4	1.856	2.767	9.4	21.7
1 26	5 47.70	+40 21.3	2.089	2.901	13.0	21.1	1 26	5 46.39	+26 41.2	1.934	2.769	13.0	21.9
271951	2005 <i>AR</i> ₂₃		12 25.4 352°69	4°3/25.4	18		448801	2011 <i>SW</i> ₂₇₂		12 25.5 122°45	3°6/25.9	18	
11 17	6 44.05	+33 39.2	1.768	2.560	16.0	19.5	11 17	6 46.45	+12 20.3	2.036	2.799	15.1	22.1
11 27	6 40.62	+34 4.2	1.684	2.555	12.9	19.3	11 27	6 41.47	+12 15.9	1.960	2.813	12.1	21.9
12 7	6 34.10	+34 23.3	1.622	2.550	9.3	19.1	12 7	6 34.13	+12 20.9	1.905	2.826	8.7	21.7
12 17	6 25.17	+34 32.1	1.583	2.547	5.8	18.9	12 17	6 25.04	+12 35.5	1.877	2.838	5.3	21.6
12 27	6 15.03	+34 26.8	1.572	2.544	4.3	18.8	12 27	6 15.13	+12 59.4	1.878	2.850	3.6	21.5
1 6	6 5.15	+34 6.5	1.588	2.542	6.8	18.9	1 6	6 5.47	+13 30.9	1.908	2.862	5.9	21.7
1 16	5 56.91	+33 33.4	1.630	2.540	10.5	19.2	1 16	5 57.07	+14 8.3	1.967	2.873	9.2	21.9
1 26	5 51.38	+32 52.0	1.696	2.540	14.1	19.4	1 26	5 50.72	+14 49.4	2.051	2.884	12.4	22.1
38513	1999 <i>TJ</i> ₂₃₆		12 25.4 92°95	1°7/25.7	18		508368	2016 <i>EV</i> ₂₀₄		12 25.5 166°03	14°5/24.7	17	
11 17	6 44.53	+17 2.5	2.262	3.031	13.6	18.8	11 17	6 49.78	- 1 58.4	1.337	2.084	22.4	21.7
11 27	6 39.76	+17 12.3	2.187	3.048	10.7	18.6	11 27	6 45.23	- 4 22.2	1.272	2.087	19.7	21.5
12 7	6 32.85	+17 27.8	2.136	3.065	7.4	18.4	12 7	6 37.30	- 6 27.3	1.225	2.090	17.0	21.3
12 17	6 24.39	+17 48.2	2.112	3.081	3.8	18.2	12 17	6 26.72	- 8 2.3	1.199	2.092	15.0	21.2
12 27	6 15.21	+18 12.2	2.117	3.098	1.7	18.1	12 27	6 14.82	- 8 57.7	1.195	2.093	14.6	21.2
1 6	6 6.28	+18 38.4	2.153	3.114	4.6	18.3	1 6	6 3.22	- 9 9.8	1.214	2.095	15.8	21.3
1 16	5 58.49	+19 5.6	2.218	3.129	8.1	18.6	1 16	5 53.45	- 8 41.2	1.254	2.095	18.1	21.4
1 26	5 52.56	+19 33.2	2.309	3.145	11.1	18.8	1 26	5 46.66	- 7 39.9	1.312	2.095	20.7	21.6
477231	2009 <i>RH</i> ₉		12 25.4 111°73	1°3/25.4	18		193148	2000 <i>JX</i> ₃		12 25.5 195°46	11°5/25		

EPHEMERIDES

12 25.5

12 25.5

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
111881	2002 <i>EM</i> ₁₂₆	12 25.5 239°05	0°7/25.5 18				146303	2001 <i>KY</i> ₅	12 25.5 207°58	2°1/25.2 18			
11 17	6 49.20	+22 48.8	1.425	2.224	18.8	20.2	11 17	6 50.73	+26 28.8	1.861	2.640	15.8	21.1
11 27	6 45.00	+22 31.4	1.343	2.222	14.9	19.9	11 27	6 45.67	+27 7.9	1.768	2.635	12.5	20.9
12 7	6 37.28	+22 15.0	1.282	2.220	10.2	19.6	12 7	6 37.52	+27 48.8	1.698	2.630	8.7	20.6
12 17	6 26.76	+21 58.4	1.243	2.217	4.9	19.3	12 17	6 26.87	+28 27.2	1.653	2.624	4.4	20.4
12 27	6 14.81	+21 40.6	1.232	2.215	1.2	19.0	12 27	6 14.83	+28 58.6	1.637	2.617	2.2	20.2
1 6	6 3.16	+21 22.0	1.248	2.212	6.6	19.4	1 6	6 2.84	+29 20.1	1.651	2.610	6.0	20.4
1 16	5 53.42	+21 4.2	1.290	2.210	11.8	19.7	1 16	5 52.33	+29 31.5	1.693	2.602	10.2	20.7
1 26	5 46.80	+20 49.4	1.354	2.207	16.3	20.0	1 26	5 44.45	+29 34.9	1.760	2.594	14.0	20.9
220032	2002 <i>QO</i> ₁₀₈	12 25.5 52°31	0°8/25.4 18				125834	2001 <i>XA</i> ₁₈₀	12 25.5 73°76	1°4/25.6 18			
11 17	6 49.63	+24 55.3	1.239	2.049	20.5	21.0	11 17	6 49.46	+19 55.2	1.547	2.337	18.0	19.2
11 27	6 45.48	+24 58.2	1.182	2.067	16.1	20.8	11 27	6 44.46	+19 49.4	1.487	2.360	14.1	19.0
12 7	6 37.55	+25 1.8	1.145	2.085	10.9	20.6	12 7	6 36.43	+19 48.3	1.448	2.383	9.6	18.8
12 17	6 26.79	+25 3.0	1.130	2.104	5.1	20.3	12 17	6 26.17	+19 50.7	1.433	2.405	4.7	18.6
12 27	6 14.85	+24 59.2	1.140	2.123	1.2	20.1	12 27	6 15.01	+19 55.3	1.446	2.428	1.6	18.4
1 6	6 3.63	+24 49.9	1.177	2.143	6.7	20.5	1 6	6 4.41	+20 1.2	1.487	2.451	5.9	18.8
1 16	5 54.75	+24 37.0	1.239	2.162	11.9	20.9	1 16	5 55.65	+20 8.2	1.556	2.473	10.4	19.1
1 26	5 49.27	+24 23.3	1.323	2.182	16.3	21.2	1 26	5 49.66	+20 16.8	1.648	2.495	14.2	19.4
152186	2005 <i>QC</i> ₂₇	12 25.5 221°04	0°1/25.5 18				104026	2000 <i>DY</i> ₁₁₂	12 25.5 78°94	6°8/25.6 18			
11 17	6 47.75	+21 38.9	1.600	2.393	17.4	20.4	11 17	6 58.24	+38 33.4	1.538	2.311	18.8	19.3
11 27	6 43.56	+21 56.8	1.516	2.391	13.8	20.2	11 27	6 52.00	+39 21.1	1.485	2.339	15.3	19.1
12 7	6 36.17	+22 19.7	1.453	2.389	9.4	19.9	12 7	6 41.81	+39 57.9	1.452	2.366	11.5	19.0
12 17	6 26.23	+22 45.1	1.414	2.388	4.4	19.6	12 17	6 28.73	+40 15.4	1.443	2.392	8.0	18.9
12 27	6 14.92	+23 9.9	1.403	2.386	0.8	19.4	12 27	6 14.56	+40 8.3	1.461	2.419	6.8	18.8
1 6	6 3.78	+23 31.9	1.419	2.384	6.0	19.7	1 6	6 1.30	+39 36.8	1.506	2.445	8.7	19.0
1 16	5 54.27	+23 50.2	1.463	2.381	10.8	20.0	1 16	5 50.65	+38 46.4	1.576	2.470	12.0	19.3
1 26	5 47.54	+24 5.5	1.530	2.379	15.0	20.2	1 26	5 43.63	+37 45.2	1.670	2.495	15.1	19.5
5017	Tenchi	12 25.5 51°21	5°6/26.6 18 R				484063	2006 <i>HV</i> ₄₄	12 25.5 119°13	8°4/24.7 17			
11 17	6 41.38	+ 5 18.7	2.243	2.990	14.4	17.1	11 17	6 58.32	+53 52.2	3.010	3.693	12.3	21.6
11 27	6 37.34	+ 5 7.2	2.162	2.997	11.9	17.0	11 27	6 51.32	+55 8.6	2.949	3.711	10.9	21.5
12 7	6 31.29	+ 5 8.6	2.103	3.003	9.2	16.8	12 7	6 41.14	+56 12.0	2.909	3.728	9.5	21.4
12 17	6 23.71	+ 5 24.8	2.069	3.009	6.7	16.7	12 17	6 28.47	+56 55.9	2.894	3.745	8.6	21.4
12 27	6 15.41	+ 5 56.2	2.063	3.016	5.6	16.6	12 27	6 14.56	+57 15.4	2.905	3.761	8.4	21.4
1 6	6 7.26	+ 6 41.3	2.086	3.023	6.8	16.7	1 6	6 0.97	+57 9.6	2.942	3.777	9.0	21.4
1 16	6 0.12	+ 7 37.5	2.137	3.029	9.3	16.9	1 16	5 49.12	+56 40.7	3.005	3.792	10.0	21.5
1 26	5 54.71	+ 8 41.5	2.213	3.036	12.0	17.1	1 26	5 40.10	+55 54.2	3.090	3.807	11.3	21.7
45429	2000 <i>AO</i> ₁₆₉	12 25.5 313°78	3°3/26.2 18				200060	2008 <i>QD</i> ₈	12 25.5 165°60	1°1/25.6 18			
11 17	6 44.36	+12 28.2	1.678	2.460	17.1	19.1	11 17	6 49.09	+19 55.3	2.055	2.826	14.8	21.8
11 27	6 40.72	+12 52.2	1.586	2.451	13.8	18.8	11 27	6 43.71	+19 56.5	1.969	2.831	11.7	21.6
12 7	6 34.19	+13 30.2	1.515	2.443	9.9	18.6	12 7	6 35.77	+20 1.3	1.906	2.836	8.0	21.4
12 17	6 25.31	+14 22.2	1.468	2.434	5.7	18.3	12 17	6 25.89	+20 8.7	1.869	2.840	3.9	21.2
12 27	6 15.09	+15 26.1	1.448	2.426	3.3	18.2	12 27	6 15.05	+20 17.3	1.862	2.844	1.3	21.0
1 6	6 4.85	+16 37.8	1.457	2.418	6.4	18.3	1 6	6 4.42	+20 26.2	1.885	2.847	5.1	21.3
1 16	5 55.92	+17 53.1	1.494	2.410	10.8	18.6	1 16	5 55.11	+20 35.2	1.938	2.849	9.0	21.5
1 26	5 49.43	+19 8.2	1.554	2.403	14.8	18.8	1 26	5 48.00	+20 44.7	2.016	2.850	12.5	21.7
460565	2014 <i>TM</i> ₇₃	12 25.5 77°84	1°1/25.3 18				152958	2000 <i>GX</i> ₄₇	12 25.5 254°95	0°9/25.4 18			
11 17	6 45.25	+25 0.5	2.260	3.036	13.4	21.1	11 17	6 48.35	+24 50.3	1.709	2.497	16.6	21.1
11 27	6 40.49	+25 30.6	2.187	3.053	10.5	20.9	11 27	6 44.04	+25 4.8	1.613	2.486	13.2	20.9
12 7	6 33.45	+26 1.7	2.137	3.070	7.1	20.7	12 7	6 36.55	+25 21.0	1.538	2.474	9.1	20.6
12 17	6 24.73	+26 31.1	2.115	3.087	3.4	20.5	12 17	6 26.47	+25 35.8	1.489	2.462	4.4	20.3
12 27	6 15.24	+26 56.3	2.122	3.104	1.3	20.4	12 27	6 14.93	+25 46.3	1.467	2.450	1.3	20.1
1 6	6 6.00	+27 15.8	2.159	3.120	4.6	20.6	1 6	6 3.43	+25 50.6	1.474	2.437	6.0	20.3
1 16	5 57.98	+27 29.3	2.226	3.137	8.0	20.9	1 16	5 53.45	+25 49.1	1.508	2.424	10.7	20.6
1 26	5 51.95	+27 37.8	2.318	3.153	11.1	21.1	1 26	5 46.19	+25 43.8	1.566	2.411	14.9	20.8
146784	2001 <i>XE</i> ₂₄₅	12 25.5 165°99	3°1/25.4 18				37362	2001 <i>UM</i> ₆₅	12 25.5 63°79	1°1/25.5 18			
11 17	6 45.52	+16 26.2	2.201	2.969	14.0	20.6	11 17	6 49.79	+22 12.1	1.435	2.232	18.8	18.5
11 27	6 40.64	+15 40.9	2.113	2.971	11.2	20.4	11 27	6 44.96	+21 48.7	1.375	2.252	14.8	18.3
12 7	6 33.53	+14 58.7	2.048	2.973	7.9	20.2	12 7	6 36.87	+21 27.0	1.336	2.273	10.0	18.1
12 17	6 24.77	+14 21.0	2.011	2.975	4.6	20.0	12 17	6 26.40	+21 6.3	1.321	2.294	4.8	17.8
12 27	6 15.23	+13 49.2	2.003	2.977	3.2	19.9	12 27	6 15.00	+20 46.2	1.333	2.316	1.4	17.6
1 6	6 5.92	+13 24.6	2.025	2.978	5.6	20.1	1 6	6 4.25	+20 27.5	1.373	2.337	6.2	18.0
1 16	5 57.76	+13 7.8	2.075	2.979	9.0	20.3	1 16	5 55.52	+20 11.4	1.439	2.358	10.9	18.3
1 26	5 51.54	+12 58.9	2.151	2.980	12.1	20.5	1 26	5 49.76	+19 59.3	1.528	2.379	14.9	18.6
458584	2011 <i>FL</i> ₁₃	12 25.5 244°46	2°8/25.7 18				240968	2006 <i>JY</i> ₃	12 25.5 187°08	0°4/25.5 18			
11 17	6 41.57	+13 46.3	2.812	3.569	11.5	22.0	11 17	6 47.14	+21 52.0	1.978	2.757	15.0	22.2
11 27	6 37.22	+13 31.6	2.705	3.555	9.3	21.8	11 27	6 42.39	+21 56.6	1.889	2.756	11.8	22.0
12 7	6 31.11	+13 22.2	2.621	3.541	6.6	21.6	12 7	6 35.01	+22 3.9	1.823	2.756	8.1	21.8
12 17	6 23.63	+13 18.7	2.565	3.526	4.0	21.4	12 17	6 25.59	+22 12.2	1.782	2.755	3.8	21.5
12 27	6 15.43	+13 21.3	2.540	3.512	2.8	21.3	12 27	6 15.12	+22 20.1	1.771	2.754	0.8	21.3
1 6	6 7.25	+13 30.0	2.544	3.497	4.7	21.5	1 6	6 4.83	+22 26.4	1.790	2.753	5.1	21.6
1 16	5 59.83	+13 44.2	2.579	3.481	7.5	21.6	1 16	5 55.86	+22 31.1	1.836	2.751	9.3	21.8
1 26	5 53.83	+14 3.1	2.640	3.466	10.2	21.8	1 26	5 49.15	+22 35.1	1.909	2.749	12.9	22.1
289452	2005 <i>EN</i> ₅₄	12 25.5 184°59	1°5/25.4 18				63613	2001 <i>QO</i> ₇₆	12 25.5 140°59	4°4/25.6 1			

EPHEMERIDES

12 25.5

12 25.5

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
453557	2009 YZ ₁₉		12 25.5	10°97'	0°6/25.5	17	311762	2006 TC ₁₀₂		12 25.5	349°09'	3°0/25.2	17
11 17	6 44.16	+26 24.3	1.936	2.725	14.9	20.4	11 17	6 45.98	+29 15.0	1.750	2.542	16.1	21.0
11 27	6 40.08	+26 8.4	1.854	2.727	11.7	20.2	11 27	6 42.11	+29 49.5	1.666	2.539	12.8	20.8
12 7	6 33.41	+25 50.2	1.793	2.729	8.0	20.0	12 7	6 35.17	+30 22.9	1.604	2.537	9.0	20.6
12 17	6 24.80	+25 28.4	1.758	2.732	3.8	19.8	12 17	6 25.79	+30 50.6	1.566	2.535	4.9	20.3
12 27	6 15.29	+25 2.2	1.752	2.735	0.9	19.5	12 27	6 15.14	+31 8.6	1.556	2.534	3.1	20.2
1 6	6 6.07	+24 32.5	1.775	2.739	5.1	19.9	1 6	6 4.67	+31 14.7	1.574	2.533	6.3	20.4
1 16	5 58.27	+24 1.0	1.825	2.743	9.1	20.1	1 16	5 55.78	+31 9.8	1.619	2.532	10.4	20.6
1 26	5 52.75	+23 30.1	1.901	2.747	12.6	20.3	1 26	5 49.58	+30 56.8	1.688	2.531	14.1	20.9
491404	2012 DT ₁₁		12 25.5	325°10'	4°7/24.7	17	88804	2001 SU ₁₂₉		12 25.5	53°62'	1°7/25.6	18
11 17	6 43.60	+30 31.0	1.560	2.364	17.2	21.0	11 17	6 44.96	+19 20.5	1.789	2.576	16.0	20.1
11 27	6 41.05	+31 32.8	1.462	2.341	13.9	20.8	11 27	6 40.75	+19 6.1	1.714	2.586	12.6	19.9
12 7	6 35.02	+32 36.2	1.385	2.319	10.0	20.5	12 7	6 33.90	+18 55.6	1.661	2.595	8.7	19.7
12 17	6 25.96	+33 34.8	1.331	2.297	6.2	20.2	12 17	6 25.05	+18 48.8	1.634	2.605	4.4	19.4
12 27	6 15.02	+34 21.5	1.303	2.276	4.8	20.1	12 27	6 15.30	+18 45.4	1.634	2.615	1.9	19.3
1 6	6 3.89	+34 51.4	1.302	2.256	8.0	20.2	1 6	6 5.86	+18 45.0	1.663	2.625	5.5	19.5
1 16	5 54.33	+35 3.5	1.326	2.237	12.4	20.4	1 16	5 57.88	+18 47.5	1.719	2.635	9.6	19.8
1 26	5 47.85	+35 0.7	1.372	2.219	16.6	20.6	1 26	5 52.23	+18 53.0	1.800	2.646	13.3	20.1
321122	2008 UB ₁₄		12 25.5	95°89'	4°0/25.6	17	98597	2000 WD ₅₉		12 25.5	341°94'	0°4/25.5	18
11 17	6 42.06	+12 3.4	2.379	3.141	13.2	20.8	11 17	6 44.25	+21 22.2	1.484	2.288	18.0	19.2
11 27	6 37.76	+11 27.0	2.296	3.147	10.7	20.7	11 27	6 41.07	+21 33.1	1.401	2.283	14.2	18.9
12 7	6 31.51	+10 57.1	2.236	3.152	7.8	20.5	12 7	6 34.65	+21 49.1	1.338	2.278	9.7	18.7
12 17	6 23.83	+10 35.3	2.202	3.158	5.1	20.3	12 17	6 25.61	+22 8.3	1.299	2.273	4.6	18.4
12 27	6 15.47	+10 22.7	2.198	3.163	4.0	20.3	12 27	6 15.17	+22 28.2	1.286	2.269	0.9	18.1
1 6	6 7.30	+10 19.8	2.223	3.169	5.8	20.4	1 6	6 4.88	+22 46.7	1.300	2.266	6.2	18.4
1 16	6 0.13	+10 25.9	2.276	3.174	8.5	20.6	1 16	5 56.25	+23 3.1	1.340	2.263	11.2	18.7
1 26	5 54.64	+10 40.0	2.355	3.180	11.3	20.8	1 26	5 50.46	+23 17.6	1.403	2.260	15.6	19.0
229292	2005 CG ₆₉		12 25.5	345°68'	0°2/25.5	18	20576	Marieoertle		12 25.5	319°14'	1°9/25.5	18
11 17	6 42.98	+22 37.4	2.118	2.902	14.0	21.0	11 17	6 48.48	+27 46.7	1.356	2.162	19.2	18.4
11 27	6 38.99	+22 39.8	2.029	2.900	11.0	20.8	11 27	6 44.88	+27 49.3	1.274	2.156	15.3	18.1
12 7	6 32.63	+22 44.0	1.963	2.898	7.5	20.6	12 7	6 37.48	+27 49.6	1.212	2.151	10.6	17.9
12 17	6 24.46	+22 48.7	1.922	2.896	3.5	20.4	12 17	6 27.01	+27 43.7	1.172	2.145	5.3	17.5
12 27	6 15.37	+22 52.6	1.911	2.894	0.7	20.1	12 27	6 14.93	+27 28.5	1.158	2.140	2.1	17.3
1 6	6 6.44	+22 55.0	1.929	2.893	4.8	20.4	1 6	6 3.12	+27 3.7	1.171	2.135	7.0	17.6
1 16	5 58.69	+22 56.0	1.976	2.892	8.6	20.7	1 16	5 53.39	+26 31.9	1.209	2.131	12.3	17.9
1 26	5 52.96	+22 56.4	2.047	2.891	12.0	20.9	1 26	5 47.04	+25 57.8	1.269	2.127	16.9	18.2
298493	2003 UP ₂₈₀		12 25.5	80°90'	0°4/25.5	18	329695	2003 UK ₂₄₁		12 25.5	48°05'	0°8/25.4	18
11 17	6 49.89	+20 40.5	1.800	2.578	16.3	21.0	11 17	6 44.53	+24 31.2	1.967	2.754	14.8	20.9
11 27	6 44.42	+20 59.9	1.740	2.607	12.7	20.8	11 27	6 40.25	+24 48.1	1.897	2.769	11.6	20.7
12 7	6 36.23	+21 23.7	1.701	2.635	8.6	20.6	12 7	6 33.47	+25 6.0	1.849	2.785	7.8	20.5
12 17	6 26.07	+21 49.3	1.689	2.662	4.0	20.4	12 17	6 24.82	+25 22.5	1.827	2.801	3.7	20.3
12 27	6 15.11	+22 14.3	1.706	2.689	0.8	20.2	12 27	6 15.34	+25 35.7	1.834	2.817	1.0	20.1
1 6	6 4.63	+22 36.9	1.753	2.716	5.2	20.6	1 6	6 6.19	+25 44.2	1.870	2.833	4.9	20.4
1 16	5 55.78	+22 56.6	1.828	2.743	9.3	20.9	1 16	5 58.43	+25 48.3	1.934	2.850	8.8	20.7
1 26	5 49.40	+23 13.7	1.928	2.768	12.8	21.2	1 26	5 52.88	+25 49.2	2.024	2.867	12.1	20.9
488678	2003 US ₂₇₆		12 25.5	39°86'	3°4/25.4	18	448982	2011 YB ₇₃		12 25.5	34°05'	3°7/25.6	18
11 17	6 47.18	+18 44.5	1.301	2.107	19.9	20.4	11 17	6 48.16	+32 46.0	1.584	2.377	17.5	20.8
11 27	6 43.02	+17 49.8	1.250	2.130	15.7	20.2	11 27	6 43.90	+32 54.4	1.516	2.388	13.9	20.6
12 7	6 35.57	+16 59.7	1.218	2.155	10.8	20.0	12 7	6 36.31	+32 55.9	1.468	2.400	9.8	20.4
12 17	6 25.80	+16 16.2	1.210	2.180	5.9	19.8	12 17	6 26.24	+32 46.3	1.445	2.412	5.7	20.2
12 27	6 15.17	+15 41.2	1.228	2.206	3.5	19.7	12 27	6 15.10	+32 22.8	1.449	2.424	3.7	20.1
1 6	6 5.30	+15 16.1	1.272	2.232	7.2	20.0	1 6	6 4.52	+31 46.1	1.480	2.438	6.7	20.3
1 16	5 57.50	+15 1.6	1.341	2.259	11.6	20.3	1 16	5 55.93	+30 59.7	1.537	2.451	10.7	20.6
1 26	5 52.66	+14 57.0	1.433	2.287	15.6	20.6	1 26	5 50.32	+30 9.0	1.618	2.466	14.4	20.8
212278	2005 KV ₈		12 25.5	228°70'	2°5/25.7	18	42537	1995 WZ ₁		12 25.5	36°72'	2°5/25.4	18
11 17	6 44.98	+16 21.3	2.117	2.889	14.4	21.7	11 17	6 46.26	+20 7.0	1.496	2.295	18.1	18.0
11 27	6 40.51	+16 10.5	2.021	2.882	11.5	21.5	11 27	6 42.21	+19 20.5	1.426	2.304	14.3	17.8
12 7	6 33.67	+16 5.4	1.947	2.875	8.0	21.3	12 7	6 35.08	+18 35.8	1.377	2.313	9.9	17.6
12 17	6 24.97	+16 6.0	1.900	2.867	4.4	21.1	12 17	6 25.65	+17 54.3	1.352	2.323	5.1	17.3
12 27	6 15.29	+16 12.2	1.881	2.859	2.5	20.9	12 27	6 15.21	+17 17.3	1.353	2.333	2.7	17.2
1 6	6 5.68	+16 23.4	1.893	2.851	5.4	21.1	1 6	6 5.23	+16 46.6	1.382	2.344	6.5	17.4
1 16	5 57.19	+16 38.9	1.932	2.843	9.1	21.3	1 16	5 57.04	+16 23.6	1.438	2.355	11.1	17.7
1 26	5 50.69	+16 58.0	1.998	2.834	12.5	21.5	1 26	5 51.59	+16 9.1	1.516	2.367	15.0	18.0
98911	2001 BJ ₆₃		12 25.5	9°18'	1°8/25.7	18	228421	2001 OL ₉₇		12 25.5	72°57'	0°9/25.6	18
11 17	6 44.06	+18 30.6	1.494	2.295	18.0	19.0	11 17	6 49.45	+18 57.5	1.474	2.266	18.6	19.7
11 27	6 40.73	+18 31.4	1.417	2.296	14.3	18.8	11 27	6 44.76	+19 23.4	1.412	2.286	14.6	19.5
12 7	6 34.27	+18 39.3	1.360	2.297	9.9	18.5	12 7	6 36.85	+19 57.2	1.370	2.306	9.9	19.2
12 17	6 25.37	+18 53.4	1.327	2.299	5.0	18.2	12 17	6 26.50	+20 36.1	1.353	2.326	4.8	19.0
12 27	6 15.22	+19 12.2	1.320	2.301	1.9	18.0	12 27	6 15.05	+21 16.6	1.363	2.346	1.2	18.8
1 6	6 5.31	+19 34.0	1.340	2.304	6.3	18.3	1 6	6 4.08	+21 55.4	1.401	2.365	6.1	19.2
1 16	5 57.04	+19 57.5	1.386	2.308	11.0	18.6	1 16	5 54.99	+22 30.8	1.466	2.385	10.8	19.5
1 26	5 51.51	+20 21.9	1.455	2.312	15.2	18.9	1 26	5 48.80	+23 2.6	1.555	2.405	14.8	19.8
356870	2011 WH ₈₄		12 25.5	64°26'	1°9/25.6	18	420211	2011 HN ₁		12 25.5	191°46'	0°4/25.6	18
11 17	6 45.27	+18 22.9	1.782	2.568									

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
309520	2007 <i>XN</i> ₈		12 25.5 129°30	1°0/25.4	18		256063	2006 <i>UY</i> ₁₄₀		12 25.5 94°55	0°2/25.5	18	
11 17	6 47.48	+25 0.5	2.057	2.835	14.5	20.9	11 17	6 46.23	+23 29.6	1.957	2.740	15.0	21.5
11 27	6 42.56	+25 22.3	1.976	2.843	11.4	20.8	11 27	6 41.65	+23 19.1	1.875	2.745	11.8	21.3
12 7	6 35.07	+25 45.0	1.918	2.851	7.8	20.5	12 7	6 34.47	+23 8.9	1.814	2.749	8.0	21.1
12 17	6 25.62	+26 6.0	1.886	2.858	3.7	20.3	12 17	6 25.35	+22 57.9	1.780	2.753	3.8	20.8
12 27	6 15.21	+26 22.7	1.884	2.866	1.2	20.1	12 27	6 15.31	+22 45.2	1.774	2.757	0.7	20.6
1 6	6 5.04	+26 33.7	1.911	2.873	5.0	20.4	1 6	6 5.54	+22 31.0	1.798	2.762	5.1	20.9
1 16	5 56.22	+26 39.0	1.967	2.880	8.9	20.7	1 16	5 57.16	+22 16.2	1.850	2.766	9.1	21.2
1 26	5 49.63	+26 40.1	2.049	2.886	12.2	20.9	1 26	5 51.04	+22 2.2	1.928	2.770	12.7	21.4
514113	2015 <i>DA</i> ₁₆₈		12 25.5 210°90	1°6/25.7	18		140463	2001 <i>TX</i> ₁₂₈		12 25.5 188°02	0°7/25.5	18	
11 17	6 48.66	+18 20.5	1.588	2.375	17.7	21.9	11 17	6 45.37	+21 12.4	2.061	2.840	14.5	20.7
11 27	6 44.28	+18 27.9	1.501	2.372	14.1	21.7	11 27	6 40.90	+21 10.3	1.972	2.840	11.4	20.4
12 7	6 36.71	+18 42.6	1.435	2.369	9.8	21.4	12 7	6 33.96	+21 10.8	1.906	2.839	7.8	20.2
12 17	6 26.57	+19 3.6	1.393	2.365	4.9	21.1	12 17	6 25.13	+21 12.9	1.866	2.839	3.7	20.0
12 27	6 15.03	+19 28.7	1.379	2.361	1.8	20.9	12 27	6 15.35	+21 15.5	1.856	2.838	1.0	19.8
1 6	6 3.61	+19 55.8	1.394	2.357	6.3	21.2	1 6	6 5.74	+21 17.9	1.875	2.838	4.9	20.0
1 16	5 53.77	+20 23.4	1.435	2.352	11.1	21.4	1 16	5 57.37	+21 20.2	1.922	2.837	8.9	20.3
1 26	5 46.71	+20 51.0	1.500	2.347	15.4	21.7	1 26	5 51.12	+21 23.0	1.995	2.836	12.4	20.5
308297	2005 <i>JG</i> ₁₁₃		12 25.5 166°46	0°4/25.5	18		282542	2004 <i>SB</i> ₅₉		12 25.5 65°14	2°9/25.7	18	
11 17	6 46.04	+21 25.0	1.973	2.754	14.9	21.3	11 17	6 47.24	+16 29.2	1.513	2.305	18.3	20.8
11 27	6 41.54	+21 32.8	1.887	2.755	11.8	21.1	11 27	6 42.88	+16 15.7	1.449	2.321	14.5	20.5
12 7	6 34.45	+21 43.9	1.822	2.756	8.0	20.9	12 7	6 35.50	+16 10.0	1.405	2.338	10.1	20.3
12 17	6 25.36	+21 56.6	1.784	2.757	3.8	20.6	12 17	6 25.86	+16 12.2	1.386	2.355	5.4	20.1
12 27	6 15.27	+22 9.4	1.775	2.758	0.8	20.4	12 27	6 15.23	+16 21.8	1.393	2.372	3.0	20.0
1 6	6 5.34	+22 21.0	1.796	2.759	5.1	20.7	1 6	6 5.06	+16 37.4	1.428	2.389	6.5	20.3
1 16	5 56.73	+22 31.1	1.844	2.759	9.2	20.9	1 16	5 56.64	+16 57.9	1.489	2.406	10.8	20.5
1 26	5 50.34	+22 40.1	1.918	2.760	12.7	21.2	1 26	5 50.93	+17 22.1	1.574	2.423	14.7	20.8
196693	2003 <i>SX</i> ₇₃		12 25.5 58°12	5°9/25.3	17		479424	2013 <i>YV</i> ₈₂		12 25.5 349°99	1°4/25.5	16	R
11 17	6 49.69	+39 11.5	2.062	2.826	14.9	20.0	11 17	6 43.08	+27 27.0	1.111	1.941	21.1	20.9
11 27	6 44.62	+39 57.0	1.996	2.843	12.2	19.8	11 27	6 41.29	+27 13.6	1.037	1.933	16.8	20.6
12 7	6 36.58	+40 33.6	1.952	2.860	9.3	19.7	12 7	6 35.39	+26 56.2	0.980	1.926	11.6	20.3
12 17	6 26.33	+40 55.7	1.934	2.877	6.8	19.5	12 17	6 26.14	+26 31.9	0.945	1.920	5.7	19.9
12 27	6 15.11	+40 59.1	1.942	2.895	5.9	19.5	12 27	6 15.16	+25 59.2	0.933	1.915	1.7	19.7
1 6	6 4.34	+40 43.1	1.979	2.912	7.4	19.6	1 6	6 4.54	+25 19.0	0.945	1.912	7.5	20.0
1 16	5 55.30	+40 10.6	2.043	2.930	10.0	19.8	1 16	5 56.23	+24 35.3	0.980	1.911	13.4	20.3
1 26	5 48.92	+39 26.5	2.132	2.947	12.6	20.0	1 26	5 51.61	+23 53.2	1.035	1.911	18.4	20.6
120215	Kevinberry		12 25.5 210°10	3°1/25.2	18		268816	2006 <i>VU</i> ₆₀		12 25.5 312°46	0°8/25.5	18	
11 17	6 51.67	+30 4.4	1.985	2.757	15.2	20.9	11 17	6 46.43	+22 17.9	1.380	2.187	19.0	20.7
11 27	6 46.33	+30 40.7	1.890	2.751	12.1	20.7	11 27	6 43.08	+22 5.8	1.295	2.178	15.1	20.4
12 7	6 37.95	+31 15.6	1.817	2.745	8.5	20.5	12 7	6 36.20	+21 55.9	1.230	2.170	10.4	20.1
12 17	6 27.11	+31 44.2	1.771	2.737	4.8	20.2	12 17	6 26.43	+21 46.9	1.187	2.161	5.0	19.8
12 27	6 14.94	+32 2.2	1.753	2.729	3.2	20.1	12 27	6 15.10	+21 37.8	1.171	2.154	1.2	19.5
1 6	6 2.84	+32 7.3	1.765	2.720	6.2	20.3	1 6	6 3.94	+21 28.1	1.181	2.146	6.7	19.8
1 16	5 52.21	+32 0.4	1.806	2.710	10.0	20.5	1 16	5 54.61	+21 19.0	1.216	2.139	12.1	20.1
1 26	5 44.17	+31 44.6	1.871	2.700	13.6	20.7	1 26	5 48.40	+21 11.9	1.273	2.132	16.8	20.4
415539	2014 <i>QW</i> ₁₃₀		12 25.5 333°99	1°1/25.6	17		156166	2001 <i>TG</i> ₁₃₄		12 25.5 54°48	2°3/25.8	18	
11 17	6 43.93	+20 0.8	2.043	2.825	14.5	21.7	11 17	6 46.88	+16 17.7	1.415	2.212	19.0	19.6
11 27	6 39.78	+19 58.6	1.955	2.824	11.4	21.5	11 27	6 42.92	+16 30.9	1.349	2.225	15.1	19.4
12 7	6 33.20	+20 0.1	1.890	2.823	7.8	21.3	12 7	6 35.73	+16 54.5	1.303	2.238	10.4	19.2
12 17	6 24.77	+20 4.4	1.850	2.822	3.8	21.0	12 17	6 26.06	+17 27.3	1.281	2.252	5.4	18.9
12 27	6 15.39	+20 10.6	1.839	2.821	1.3	20.9	12 27	6 15.20	+18 6.7	1.285	2.266	2.4	18.8
1 6	6 6.16	+20 17.9	1.858	2.821	5.0	21.1	1 6	6 4.74	+18 49.6	1.317	2.280	6.5	19.1
1 16	5 58.15	+20 26.0	1.905	2.820	8.9	21.4	1 16	5 56.10	+19 33.1	1.374	2.295	11.2	19.4
1 26	5 52.21	+20 35.2	1.977	2.819	12.4	21.6	1 26	5 50.34	+20 15.8	1.455	2.309	15.3	19.7
360350	2001 <i>VO</i> ₁₃₃		12 25.5 176°09	4°8/25.9	18		356403	2010 <i>RW</i> ₁₆₂		12 25.5 123°66	2°3/25.7	18	
11 17	6 43.36	+10 11.1	2.052	2.816	15.0	21.3	11 17	6 45.72	+16 38.1	2.137	2.907	14.3	21.5
11 27	6 39.19	+9 47.3	1.966	2.816	12.2	21.1	11 27	6 40.89	+16 28.6	2.058	2.918	11.3	21.3
12 7	6 32.73	+9 33.2	1.902	2.817	9.1	21.0	12 7	6 33.78	+16 24.4	2.001	2.929	7.9	21.1
12 17	6 24.52	+9 30.5	1.863	2.817	6.1	20.8	12 17	6 24.99	+16 25.6	1.971	2.939	4.3	20.9
12 27	6 15.43	+9 40.1	1.852	2.817	4.8	20.7	12 27	6 15.40	+16 31.8	1.970	2.948	2.3	20.8
1 6	6 6.49	+10 1.5	1.870	2.817	6.6	20.8	1 6	6 6.05	+16 42.3	1.999	2.958	5.1	21.0
1 16	5 58.67	+10 33.0	1.915	2.817	9.7	21.0	1 16	5 57.91	+16 56.4	2.057	2.967	8.7	21.2
1 26	5 52.80	+11 12.4	1.986	2.817	12.8	21.2	1 26	5 51.75	+17 13.6	2.140	2.976	11.9	21.4
357944	2005 <i>YZ</i> ₅₅		12 25.5 111°61	2°5/25.2	18		326563	2002 <i>PT</i> ₁₇₆		12 25.5 147°83	3°6/26.1	18	
11 17	6 48.38	+29 37.9	2.414	3.180	13.0	21.4	11 17	6 42.10	+10 33.4	2.647	3.398	12.3	21.5
11 27	6 42.91	+30 17.4	2.340	3.198	10.2	21.2	11 27	6 37.64	+10 23.8	2.560	3.404	9.9	21.3
12 7	6 35.11	+30 55.0	2.290	3.216	7.1	21.1	12 7	6 31.39	+10 22.2	2.496	3.409	7.3	21.2
12 17	6 25.59	+31 27.1	2.267	3.234	4.0	20.9	12 17	6 23.82	+10 29.4	2.460	3.414	4.8	21.0
12 27	6 15.27	+31 50.7	2.275	3.251	2.6	20.8	12 27	6 15.61	+10 45.3	2.453	3.419	3.6	21.0
1 6	6 5.20	+32 4.3	2.313	3.267	5.0	21.0	1 6	6 7.52	+11 9.4	2.476	3.424	5.2	21.1
1 16	5 56.38	+32 8.3	2.381	3.283	8.0	21.2	1 16	6 0.30	+11 40.2	2.529	3.428	7.8	21.2
1 26	5 49.60	+32 4.9	2.475	3.299	10.8	21.4	1 26	5 54.59	+12 16.2	2.608	3.432	10.3	21.4
24544	2001 <i>DT</i> ₁₉		12 25.5 113°84	7°5/24.9	18		514337	2016 <i>PC</i> ₇₇		12 25.5 78°95			

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
14291	1104 T ₋₁		12 25.5	17°99	10°0/25.6	18	228699	2002 PX ₁₈₇		12 25.5	197°78	0°3/25.5	18
11 17	6 51.92	+42 11.7	1.266	2.060	21.0	17.0	11 17	6 43.93	+23 43.9	2.551	3.322	12.2	21.5
11 27	6 48.66	+43 21.5	1.204	2.064	17.7	16.8	11 27	6 39.36	+23 55.2	2.457	3.320	9.6	21.3
12 7	6 40.59	+44 17.8	1.159	2.068	14.1	16.6	12 7	6 32.73	+24 7.6	2.386	3.318	6.5	21.1
12 17	6 28.62	+44 49.3	1.134	2.073	11.0	16.4	12 17	6 24.53	+24 19.5	2.344	3.316	3.1	20.9
12 27	6 14.76	+44 46.8	1.133	2.079	10.0	16.4	12 27	6 15.54	+24 29.5	2.331	3.314	0.6	20.7
1 6	6 1.59	+44 8.8	1.156	2.086	11.7	16.5	1 6	6 6.65	+24 36.6	2.349	3.311	4.2	20.9
1 16	5 51.38	+43 1.9	1.201	2.094	14.9	16.7	1 16	5 58.75	+24 40.8	2.397	3.309	7.5	21.1
1 26	5 45.53	+41 37.1	1.267	2.102	18.4	17.0	1 26	5 52.58	+24 42.8	2.471	3.306	10.5	21.3
274767	2008 UW ₃₃₀		12 25.5	95°53	1°2/25.4	17	311292	2005 GB ₁₃₇		12 25.5	95°49	4°3/24.8	18
11 17	6 44.49	+26 14.6	2.500	3.272	12.4	21.0	11 17	6 50.11	+31 12.9	1.909	2.687	15.5	20.7
11 27	6 39.77	+26 37.7	2.421	3.285	9.7	20.8	11 27	6 45.17	+32 24.1	1.834	2.697	12.4	20.5
12 7	6 32.95	+27 0.6	2.366	3.297	6.6	20.7	12 7	6 37.19	+33 34.2	1.782	2.707	8.8	20.3
12 17	6 24.59	+27 21.1	2.338	3.309	3.3	20.5	12 17	6 26.79	+34 36.8	1.756	2.718	5.5	20.1
12 27	6 15.49	+27 37.1	2.340	3.321	1.4	20.3	12 27	6 15.14	+35 26.1	1.759	2.728	4.4	20.1
1 6	6 6.61	+27 47.5	2.373	3.333	4.3	20.6	1 6	6 3.68	+35 58.6	1.790	2.737	6.8	20.3
1 16	5 58.81	+27 52.4	2.435	3.345	7.5	20.8	1 16	5 53.79	+36 14.6	1.849	2.747	10.2	20.5
1 26	5 52.83	+27 53.0	2.524	3.357	10.3	21.0	1 26	5 46.57	+36 17.2	1.933	2.757	13.4	20.7
40163	1998 QC ₉₆		12 25.5	185°63	0°6/25.5	18	434514	2005 SM ₁₅₁		12 25.5	147°83	4°1/25.8	18
11 17	6 44.82	+22 35.6	2.425	3.196	12.8	19.6	11 17	6 47.73	+13 31.6	1.770	2.543	16.7	21.8
11 27	6 40.04	+22 17.8	2.333	3.196	10.0	19.4	11 27	6 42.96	+13 4.5	1.690	2.549	13.4	21.5
12 7	6 33.15	+22 0.1	2.264	3.196	6.8	19.2	12 7	6 35.47	+12 45.6	1.632	2.555	9.7	21.3
12 17	6 24.69	+21 42.1	2.223	3.195	3.3	19.0	12 17	6 25.90	+12 36.3	1.598	2.560	5.9	21.1
12 27	6 15.48	+21 23.5	2.212	3.195	0.8	18.8	12 27	6 15.31	+12 37.2	1.593	2.565	4.2	21.0
1 6	6 6.44	+21 4.7	2.231	3.194	4.4	19.1	1 6	6 4.98	+12 47.9	1.616	2.570	6.7	21.2
1 16	5 58.49	+20 46.5	2.281	3.193	7.8	19.3	1 16	5 56.08	+13 7.3	1.666	2.574	10.5	21.4
1 26	5 52.34	+20 30.1	2.356	3.191	10.9	19.5	1 26	5 49.56	+13 33.8	1.741	2.577	14.1	21.7
483117	2015 NG ₁₄		12 25.5	119°83	2°9/25.5	18	308126	2004 XV ₁₁₀		12 25.5	34°01	3°7/25.5	18
11 17	6 50.94	+30 40.3	1.756	2.539	16.5	21.1	11 17	6 49.60	+29 53.3	1.128	1.946	21.6	19.9
11 27	6 45.83	+30 53.7	1.679	2.546	13.1	20.9	11 27	6 46.34	+30 18.8	1.066	1.954	17.2	19.6
12 7	6 37.56	+31 2.9	1.623	2.553	9.1	20.7	12 7	6 38.74	+30 40.8	1.022	1.961	12.0	19.3
12 17	6 26.89	+31 3.7	1.592	2.560	5.0	20.5	12 17	6 27.68	+30 53.1	0.999	1.970	6.5	19.1
12 27	6 15.09	+30 53.2	1.589	2.567	3.0	20.4	12 27	6 15.00	+30 50.6	1.000	1.979	3.8	18.9
1 6	6 3.69	+30 30.8	1.615	2.573	6.2	20.6	1 6	6 2.96	+30 32.1	1.027	1.989	8.1	19.2
1 16	5 54.09	+29 59.3	1.668	2.579	10.2	20.8	1 16	5 53.54	+30 1.3	1.076	1.999	13.3	19.5
1 26	5 47.30	+29 22.8	1.746	2.585	13.9	21.1	1 26	5 48.05	+29 24.4	1.147	2.010	17.9	19.8
378372	2007 PA ₁₄		12 25.5	129°38	0°9/25.6	17	66707	1999 TG ₉₃		12 25.5	126°60	0°5/25.6	18
11 17	6 43.03	+19 27.5	2.952	3.713	10.9	22.2	11 17	6 48.71	+20 52.3	2.096	2.867	14.5	20.2
11 27	6 38.18	+19 32.7	2.869	3.727	8.6	22.0	11 27	6 43.33	+21 5.5	2.019	2.882	11.4	20.0
12 7	6 31.65	+19 40.7	2.811	3.740	5.8	21.9	12 7	6 35.50	+21 22.1	1.965	2.897	7.7	19.8
12 17	6 23.92	+19 50.7	2.782	3.753	2.9	21.7	12 17	6 25.85	+21 40.5	1.938	2.911	3.7	19.6
12 27	6 15.62	+20 2.0	2.783	3.765	1.0	21.6	12 27	6 15.34	+21 58.7	1.941	2.924	0.8	19.4
1 6	6 7.49	+20 13.8	2.816	3.777	3.7	21.8	1 6	6 5.11	+22 15.3	1.974	2.937	4.8	19.7
1 16	6 0.21	+20 25.8	2.879	3.788	6.5	22.0	1 16	5 56.21	+22 30.0	2.037	2.949	8.6	20.0
1 26	5 54.38	+20 38.0	2.970	3.800	9.0	22.2	1 26	5 49.46	+22 43.1	2.125	2.961	11.9	20.2
296351	2009 FZ ₁₈		12 25.5	232°72	2°1/25.6	18	335705	2007 AS		12 25.5	176°16	4°7/26.2	18
11 17	6 45.30	+17 40.4	2.071	2.846	14.5	21.2	11 17	7 0.20	+38 16.7	1.875	2.629	16.6	20.5
11 27	6 40.86	+17 27.0	1.976	2.839	11.6	21.0	11 27	6 53.02	+38 3.1	1.786	2.631	13.5	20.2
12 7	6 33.97	+17 18.2	1.902	2.832	8.1	20.7	12 7	6 42.36	+37 36.7	1.719	2.633	9.9	20.0
12 17	6 25.18	+17 13.8	1.855	2.824	4.3	20.5	12 17	6 29.12	+36 52.2	1.678	2.634	6.4	19.8
12 27	6 15.38	+17 13.9	1.837	2.817	2.2	20.3	12 27	6 14.80	+35 47.0	1.666	2.634	4.7	19.7
1 6	6 5.68	+17 17.9	1.849	2.809	5.4	20.5	1 6	6 1.15	+34 23.3	1.684	2.634	6.9	19.8
1 16	5 57.13	+17 25.7	1.889	2.800	9.2	20.7	1 16	5 49.68	+32 47.4	1.732	2.634	10.6	20.1
1 26	5 50.64	+17 36.9	1.954	2.792	12.7	20.9	1 26	5 41.39	+31 7.8	1.806	2.632	14.1	20.3
91828	1999 TU ₂₈₂		12 25.5	23°17	1°0/25.4	17	114578	2003 BW ₇₃		12 25.5	162°07	2°5/25.1	18
11 17	6 44.55	+25 28.4	1.961	2.748	14.8	19.9	11 17	6 47.73	+27 37.3	2.173	2.947	14.0	20.2
11 27	6 40.46	+25 41.5	1.879	2.751	11.7	19.7	11 27	6 42.89	+28 29.1	2.086	2.950	11.0	20.0
12 7	6 33.77	+25 55.1	1.818	2.754	7.9	19.5	12 7	6 35.43	+29 22.0	2.022	2.952	7.6	19.8
12 17	6 25.08	+26 6.5	1.784	2.757	3.8	19.2	12 17	6 25.93	+30 11.6	1.986	2.954	4.1	19.6
12 27	6 15.41	+26 13.8	1.778	2.760	1.2	19.0	12 27	6 15.33	+30 53.9	1.979	2.956	2.6	19.5
1 6	6 5.96	+26 15.9	1.801	2.764	5.1	19.3	1 6	6 4.82	+31 25.9	2.002	2.958	5.4	19.7
1 16	5 57.86	+26 13.2	1.852	2.767	9.1	19.6	1 16	5 55.55	+31 47.3	2.054	2.959	9.0	19.9
1 26	5 52.02	+26 7.2	1.927	2.772	12.6	19.8	1 26	5 48.48	+31 59.4	2.131	2.960	12.1	20.1
220907	2005 CB ₅₉		12 25.5	344°31	0°1/25.5	18	27023	1998 QE ₅₄		12 25.5	260°27	2°3/25.5	18
11 17	6 43.83	+24 3.4	2.254	3.033	13.4	20.0	11 17	6 50.10	+28 46.5	1.656	2.445	17.1	17.9
11 27	6 39.49	+23 51.2	2.164	3.032	10.5	19.9	11 27	6 45.67	+28 55.9	1.561	2.432	13.6	17.7
12 7	6 32.90	+23 38.7	2.097	3.031	7.1	19.6	12 7	6 37.85	+29 2.7	1.485	2.419	9.5	17.4
12 17	6 24.61	+23 24.8	2.057	3.030	3.4	19.4	12 17	6 27.24	+29 3.0	1.435	2.406	5.0	17.1
12 27	6 15.51	+23 9.1	2.046	3.029	0.6	19.2	12 27	6 15.09	+28 53.4	1.412	2.392	2.4	16.9
1 6	6 6.59	+22 51.7	2.065	3.028	4.5	19.5	1 6	6 3.04	+28 33.0	1.417	2.379	6.4	17.1
1 16	5 58.83	+22 33.6	2.113	3.027	8.2	19.7	1 16	5 52.68	+28 3.8	1.449	2.365	11.2	17.4
1 26	5 53.01	+22 16.1	2.186	3.027	11.4	19.9	1 26	5 45.27	+27 29.9	1.505	2.351	15.4	17.6
75682	2000 AC ₉₉		12 25.5	98°70	0°3/25.5	18	45723	2000 GN ₅₈		12 25.5	4°21	5°6/25.6	17
11 17	6 52.37	+20 42.3	1.599	2.382	17.								

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
373106	2011 <i>GH</i> ₄₂		12 25.5 294°05	2°5/25.4	18		259776	2004 <i>BA</i> ₂₇		12 25.5	7°74	17°3/	4.3 18
11 17	6 45.06	+30 42.5	2.260	3.036	13.4	21.5	11 17	6 38.40	-15 3.1	0.892	1.649	30.4	18.4
11 27	6 40.77	+30 55.1	2.159	3.023	10.7	21.2	11 27	6 37.69	-15 0.5	0.838	1.649	27.6	18.2
12 7	6 33.98	+31 4.3	2.082	3.011	7.5	21.0	12 7	6 33.00	-14 1.5	0.795	1.653	24.4	18.0
12 17	6 25.24	+31 7.1	2.031	2.998	4.2	20.8	12 17	6 25.09	-11 54.3	0.764	1.659	20.9	17.8
12 27	6 15.47	+31 1.2	2.009	2.986	2.6	20.7	12 27	6 15.52	-8 35.0	0.751	1.669	18.2	17.7
1 6	6 5.80	+30 45.8	2.016	2.973	5.3	20.8	1 6	6 6.32	-4 15.3	0.759	1.681	17.4	17.7
1 16	5 57.32	+30 22.1	2.052	2.961	8.7	21.0	1 16	5 59.36	+0 40.2	0.788	1.696	18.9	17.9
1 26	5 50.95	+29 52.9	2.113	2.949	12.0	21.2	1 26	5 56.02	+5 42.3	0.840	1.713	21.9	18.1
441045	2007 <i>HC</i> ₄₁		12 25.5 170°38	0°8/25.6	17		373362	2012 <i>KQ</i> ₄₄		12 25.5 236°17	5°9/26.3	18	
11 17	6 48.78	+20 13.9	2.168	2.935	14.2	22.1	11 17	6 41.55	+4 6.7	2.555	3.288	13.1	21.7
11 27	6 43.42	+20 19.4	2.079	2.940	11.2	21.9	11 27	6 37.39	+3 39.4	2.458	3.281	11.0	21.5
12 7	6 35.62	+20 28.4	2.014	2.944	7.7	21.7	12 7	6 31.37	+3 23.3	2.384	3.273	8.7	21.4
12 17	6 25.96	+20 39.6	1.975	2.947	3.7	21.5	12 17	6 23.93	+3 20.6	2.335	3.264	6.7	21.2
12 27	6 15.37	+20 51.7	1.966	2.949	1.0	21.3	12 27	6 15.75	+3 32.7	2.314	3.256	5.9	21.2
1 6	6 4.94	+21 3.4	1.989	2.950	4.8	21.6	1 6	6 7.61	+3 59.5	2.322	3.247	6.9	21.2
1 16	5 55.74	+21 14.5	2.040	2.951	8.7	21.8	1 16	6 0.30	+4 39.4	2.358	3.238	9.1	21.3
1 26	5 48.62	+21 25.3	2.118	2.952	12.0	22.0	1 26	5 54.50	+5 29.6	2.420	3.229	11.5	21.5
42046	2000 <i>YM</i> ₁₀₃		12 25.5 76°01	4°6/25.7	18		486498	2013 <i>GX</i> ₉₈		12 25.5 261°58	5°9/24.6	18	
11 17	6 50.36	+14 36.7	1.364	2.154	20.0	18.6	11 17	6 50.21	+37 4.5	2.088	2.854	14.7	21.8
11 27	6 45.47	+13 54.0	1.307	2.176	15.9	18.4	11 27	6 45.51	+38 9.8	1.990	2.840	12.1	21.6
12 7	6 37.31	+13 20.4	1.269	2.198	11.3	18.2	12 7	6 37.66	+39 10.8	1.915	2.827	9.2	21.4
12 17	6 26.77	+12 57.8	1.255	2.219	6.7	18.0	12 17	6 27.17	+40 0.9	1.866	2.813	6.7	21.2
12 27	6 15.25	+12 47.4	1.267	2.241	4.7	18.0	12 27	6 15.15	+40 33.8	1.844	2.798	6.0	21.1
1 6	6 4.37	+12 49.1	1.306	2.262	7.7	18.2	1 6	6 3.07	+40 46.2	1.851	2.784	7.9	21.2
1 16	5 55.50	+13 1.7	1.371	2.283	11.9	18.5	1 16	5 52.42	+40 38.8	1.885	2.769	10.8	21.4
1 26	5 49.60	+13 23.1	1.458	2.304	15.8	18.8	1 26	5 44.45	+40 15.8	1.943	2.755	13.8	21.5
326288	1997 <i>UQ</i> ₉		12 25.5 55°36	8°3/24.8	18		431671	2008 <i>CQ</i> ₁₁₉		12 25.5 231°24	2°4/25.7	18	
11 17	6 53.68	+44 23.0	2.052	2.799	15.5	19.8	11 17	6 48.52	+17 5.6	1.680	2.462	17.1	21.8
11 27	6 48.22	+45 51.7	1.999	2.825	13.1	19.7	11 27	6 44.09	+17 1.9	1.587	2.454	13.7	21.5
12 7	6 39.34	+47 8.9	1.968	2.850	10.6	19.6	12 7	6 36.60	+17 5.3	1.514	2.445	9.6	21.3
12 17	6 27.82	+48 6.3	1.962	2.876	8.8	19.6	12 17	6 26.62	+17 15.6	1.465	2.435	5.1	21.0
12 27	6 15.05	+48 38.0	1.982	2.902	8.3	19.6	12 27	6 15.26	+17 31.9	1.445	2.425	2.5	20.8
1 6	6 2.75	+48 42.5	2.029	2.927	9.4	19.7	1 6	6 3.93	+17 52.7	1.453	2.415	6.3	21.0
1 16	5 52.43	+48 22.7	2.102	2.953	11.4	19.9	1 16	5 54.03	+18 16.7	1.489	2.404	10.9	21.3
1 26	5 45.20	+47 45.1	2.197	2.979	13.4	20.1	1 26	5 46.74	+18 43.3	1.548	2.392	15.1	21.5
44041	1998 <i>ER</i> ₁		12 25.5 187°06	0°9/25.6	18		137177	1999 <i>JK</i> ₁₂		12 25.5 280°66	0°5/25.5	18	
11 17	6 49.26	+21 3.1	1.618	2.406	17.4	19.7	11 17	6 45.98	+22 48.7	2.091	2.870	14.3	20.6
11 27	6 44.69	+21 2.0	1.534	2.406	13.8	19.4	11 27	6 41.79	+23 15.3	1.977	2.845	11.4	20.4
12 7	6 36.97	+21 4.8	1.471	2.406	9.5	19.2	12 7	6 34.93	+23 46.0	1.886	2.819	7.8	20.1
12 17	6 26.75	+21 9.9	1.432	2.405	4.6	18.9	12 17	6 25.84	+24 18.5	1.821	2.794	3.8	19.8
12 27	6 15.23	+21 15.6	1.421	2.404	1.2	18.6	12 27	6 15.39	+24 50.0	1.785	2.768	0.8	19.5
1 6	6 3.92	+21 20.8	1.439	2.403	6.0	19.0	1 6	6 4.75	+25 17.9	1.778	2.741	5.2	19.8
1 16	5 54.26	+21 25.7	1.484	2.401	10.8	19.2	1 16	5 55.15	+25 41.1	1.801	2.715	9.5	20.0
1 26	5 47.36	+21 31.0	1.552	2.399	14.9	19.5	1 26	5 47.68	+26 0.0	1.849	2.688	13.3	20.2
379441	2010 <i>CV</i> ₇₀		12 25.5 226°87	2°1/25.5	18		506092	2016 <i>AX</i> ₁₀		12 25.5 264°43	1°0/25.7	17	
11 17	6 45.24	+30 45.6	2.626	3.393	12.0	21.1	11 17	6 57.97	+30 53.2	1.123	1.928	22.5	21.2
11 27	6 40.43	+30 52.5	2.530	3.389	9.5	20.9	11 27	6 53.17	+29 49.1	1.040	1.921	18.1	20.8
12 7	6 33.48	+30 55.7	2.457	3.384	6.6	20.7	12 7	6 43.57	+28 29.7	0.975	1.913	12.6	20.5
12 17	6 24.92	+30 53.1	2.412	3.379	3.7	20.5	12 17	6 30.08	+26 52.0	0.932	1.906	6.2	20.1
12 27	6 15.56	+30 42.8	2.397	3.375	2.2	20.4	12 27	6 14.68	+24 57.1	0.915	1.898	1.3	19.8
1 6	6 6.36	+30 24.6	2.413	3.370	4.6	20.5	1 6	5 59.92	+22 52.7	0.924	1.890	8.1	20.2
1 16	5 58.22	+29 59.7	2.458	3.364	7.6	20.7	1 16	5 48.03	+20 50.9	0.959	1.882	14.5	20.5
1 26	5 51.91	+29 30.5	2.529	3.359	10.4	20.9	1 26	5 40.48	+19 2.4	1.015	1.874	20.1	20.8
238214	2003 <i>UZ</i> ₈₁		12 25.5 8°09	15°8/26.4	17		220015	2002 <i>PU</i> ₁₅₅		12 25.5 36°13	0°6/25.6	18	
11 17	6 38.60	-13 6.6	1.705	2.397	20.1	18.8	11 17	6 46.55	+20 32.2	1.138	1.957	21.4	19.8
11 27	6 35.94	-15 17.6	1.651	2.400	18.6	18.6	11 27	6 43.47	+20 49.1	1.081	1.971	16.8	19.5
12 7	6 30.78	-17 2.9	1.613	2.403	17.2	18.5	12 7	6 36.52	+21 13.4	1.042	1.985	11.4	19.3
12 17	6 23.73	-18 13.8	1.593	2.408	16.2	18.5	12 17	6 26.60	+21 42.5	1.025	2.000	5.4	19.0
12 27	6 15.77	-18 44.1	1.593	2.414	15.9	18.5	12 27	6 15.31	+22 12.4	1.033	2.016	1.1	18.8
1 6	6 8.02	-18 32.2	1.612	2.421	16.3	18.5	1 6	6 4.61	+22 40.3	1.066	2.033	7.0	19.2
1 16	6 1.57	-17 41.4	1.650	2.429	17.2	18.6	1 16	5 56.18	+23 4.7	1.124	2.051	12.4	19.6
1 26	5 57.26	-16 18.7	1.706	2.439	18.6	18.7	1 26	5 51.21	+23 26.0	1.202	2.069	17.0	19.9
393449	2001 <i>UD</i> ₁₂₄		12 25.5 74°95	6°3/26.8	18		71026	1999 <i>XD</i> ₆₂		12 25.5 101°48	2°7/25.1	18	
11 17	6 45.95	+4 48.6	1.946	2.692	16.3	20.9	11 17	6 49.92	+27 17.4	1.858	2.638	15.8	19.4
11 27	6 41.04	+4 29.0	1.887	2.719	13.4	20.7	11 27	6 44.94	+28 15.7	1.784	2.651	12.4	19.2
12 7	6 33.85	+4 24.2	1.848	2.746	10.3	20.6	12 7	6 36.99	+29 15.3	1.731	2.663	8.6	19.0
12 17	6 25.04	+4 36.3	1.834	2.772	7.6	20.5	12 17	6 26.72	+30 11.2	1.706	2.675	4.6	18.8
12 27	6 15.56	+5 5.5	1.848	2.798	6.3	20.5	12 27	6 15.29	+30 58.0	1.709	2.686	2.9	18.7
1 6	6 6.47	+5 49.9	1.890	2.824	7.6	20.6	1 6	6 4.08	+31 32.6	1.741	2.698	6.0	18.9
1 16	5 58.69	+6 46.3	1.959	2.850	10.1	20.8	1 16	5 54.43	+31 54.6	1.802	2.709	9.9	19.2
1 26	5 52.96	+7 50.5	2.054	2.875	12.8	21.0	1 26	5 47.38	+32 6.2	1.887	2.720	13.3	19.4
307452	2002 <i>VU</i> ₁₄		12 25.5 122°67	0°6/25.5	18		477419	2009 <i>WB</i> ₃₇		12 25.5 13°16	2°6/25.4</		

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	
113793	2002 <i>TR</i> ₁₉₆	12 25.5 289°05			7°0/25.9 17			24954	1997 <i>SL</i> ₇	12 25.5 186°08			3°9/25.2 18	
11 17	6 43.07	+ 6 44.7	1.830	2.593	16.6	19.7	11 17	6 47.58	+35 55.2	2.723	3.479	11.9	19.9	
11 27	6 39.48	+ 5 58.8	1.732	2.576	13.9	19.4	11 27	6 42.35	+36 26.9	2.632	3.478	9.6	19.7	
12 7	6 33.30	+ 5 24.5	1.655	2.560	10.9	19.2	12 7	6 34.85	+36 53.2	2.564	3.478	7.1	19.6	
12 17	6 25.03	+ 5 5.6	1.601	2.543	8.1	19.0	12 17	6 25.63	+37 10.5	2.524	3.477	4.8	19.4	
12 27	6 15.58	+ 5 5.2	1.574	2.527	7.0	18.9	12 27	6 15.54	+37 15.9	2.514	3.476	3.9	19.4	
1 6	6 6.11	+ 5 23.8	1.574	2.510	8.7	19.0	1 6	6 5.61	+37 8.4	2.533	3.474	5.5	19.5	
1 16	5 57.77	+ 6 0.0	1.600	2.494	11.8	19.1	1 16	5 56.81	+36 49.1	2.582	3.472	8.0	19.6	
1 26	5 51.58	+ 6 50.3	1.649	2.477	15.1	19.3	1 26	5 49.93	+36 20.9	2.656	3.470	10.5	19.8	
254855	2005 <i>RZ</i> ₂₉	12 25.5 125°99			4°0/25.9 18			306168	2010 <i>ME</i> ₁₁₃	12 25.5 166°03			3°3/25.5 18	
11 17	6 44.70	+11 39.4	2.299	3.056	13.8	21.1	11 17	6 46.48	+15 15.9	2.246	3.008	13.9	21.3	
11 27	6 39.91	+11 13.0	2.220	3.067	11.1	21.0	11 27	6 41.42	+14 36.6	2.158	3.012	11.1	21.2	
12 7	6 33.06	+10 54.3	2.163	3.079	8.1	20.8	12 7	6 34.17	+14 1.5	2.094	3.016	7.9	21.0	
12 17	6 24.71	+10 44.4	2.134	3.090	5.2	20.6	12 17	6 25.29	+13 32.0	2.057	3.019	4.7	20.8	
12 27	6 15.67	+10 44.0	2.133	3.100	4.0	20.6	12 27	6 15.63	+13 9.2	2.049	3.022	3.4	20.7	
1 6	6 6.84	+10 52.8	2.163	3.110	5.8	20.7	1 6	6 6.17	+12 53.8	2.071	3.024	5.6	20.8	
1 16	5 59.10	+11 10.1	2.221	3.120	8.7	20.9	1 16	5 57.84	+12 46.2	2.123	3.025	8.9	21.0	
1 26	5 53.14	+11 34.1	2.304	3.130	11.5	21.1	1 26	5 51.41	+12 46.1	2.200	3.027	11.9	21.2	
45749	2000 <i>JR</i> ₆₄	12 25.5 351°26			9°6/25.6 18			483541	2003 <i>UN</i> ₃₁₅	12 25.5 46°68			5°1/24.7 17	
11 17	6 49.30	+46 26.1	1.746	2.508	17.3	17.8	11 17	6 51.31	+29 55.1	1.395	2.194	19.2	20.4	
11 27	6 45.68	+47 21.8	1.667	2.501	14.9	17.6	11 27	6 46.93	+31 28.6	1.344	2.219	15.2	20.2	
12 7	6 38.14	+48 3.3	1.608	2.495	12.3	17.5	12 7	6 38.77	+33 1.5	1.312	2.244	10.7	20.0	
12 17	6 27.45	+48 22.0	1.571	2.489	10.3	17.3	12 17	6 27.68	+34 24.8	1.305	2.269	6.6	19.9	
12 27	6 15.18	+48 11.0	1.559	2.485	9.6	17.3	12 27	6 15.22	+35 30.0	1.324	2.295	5.2	19.8	
1 6	6 3.34	+47 29.1	1.571	2.482	10.8	17.3	1 6	6 3.29	+36 12.7	1.371	2.321	8.1	20.1	
1 16	5 53.74	+46 20.6	1.608	2.480	13.1	17.5	1 16	5 53.61	+36 33.9	1.443	2.348	12.1	20.4	
1 26	5 47.67	+44 53.7	1.666	2.478	15.7	17.6	1 26	5 47.35	+36 38.5	1.538	2.374	15.6	20.7	
275507	1995 <i>UJ</i> ₁₈	12 25.5 337°52			1°0/25.6 18			317800	2003 <i>SS</i> ₁₉₈	12 25.5 137°23			0°5/25.5 18	
11 17	6 45.98	+21 44.3	1.338	2.147	19.3	20.9	11 17	6 53.92	+24 57.0	1.809	2.583	16.4	21.4	
11 27	6 42.80	+21 33.2	1.258	2.142	15.3	20.6	11 27	6 47.85	+24 56.0	1.734	2.598	12.9	21.2	
12 7	6 36.08	+21 25.1	1.197	2.137	10.6	20.3	12 7	6 38.80	+24 54.6	1.680	2.612	8.8	21.0	
12 17	6 26.47	+21 19.0	1.159	2.133	5.1	20.0	12 17	6 27.53	+24 50.5	1.653	2.625	4.2	20.8	
12 27	6 15.35	+21 13.8	1.146	2.129	1.3	19.7	12 27	6 15.25	+24 41.7	1.655	2.638	0.9	20.5	
1 6	6 4.45	+21 8.9	1.160	2.126	6.8	20.1	1 6	6 3.42	+24 28.2	1.687	2.649	5.5	20.9	
1 16	5 55.44	+21 4.9	1.199	2.123	12.1	20.4	1 16	5 53.30	+24 11.3	1.747	2.660	9.8	21.2	
1 26	5 49.57	+21 3.1	1.259	2.120	16.8	20.6	1 26	5 45.87	+23 53.7	1.833	2.670	13.5	21.4	
388525	2007 <i>GJ</i> ₄₇	12 25.5 233°95			0°4/25.6 18			475064	2005 <i>UK</i> ₁₂₆	12 25.5 11°20			2°5/25.4 18	
11 17	6 48.09	+21 27.2	1.878	2.658	15.6	21.9	11 17	6 44.02	+26 29.9	1.145	1.971	20.8	21.1	
11 27	6 43.52	+21 38.2	1.781	2.649	12.4	21.7	11 27	6 41.88	+27 2.3	1.080	1.974	16.5	20.8	
12 7	6 36.10	+21 53.0	1.705	2.639	8.5	21.5	12 7	6 35.75	+27 36.4	1.034	1.977	11.4	20.6	
12 17	6 26.38	+22 10.0	1.656	2.629	4.1	21.2	12 17	6 26.40	+28 6.9	1.008	1.982	5.8	20.3	
12 27	6 15.38	+22 26.9	1.635	2.618	0.8	20.9	12 27	6 15.43	+28 28.6	1.007	1.988	2.7	20.1	
1 6	6 4.40	+22 42.0	1.644	2.607	5.5	21.2	1 6	6 4.88	+28 38.7	1.031	1.996	7.5	20.4	
1 16	5 54.75	+22 54.9	1.680	2.595	9.9	21.4	1 16	5 56.60	+28 38.0	1.078	2.004	12.9	20.7	
1 26	5 47.50	+23 6.1	1.742	2.584	13.8	21.7	1 26	5 51.92	+28 29.9	1.145	2.014	17.5	21.0	
139900	2001 <i>RP</i> ₉₈	12 25.5 203°95			1°5/25.6 18			50769	2000 <i>FH</i> ₃	12 25.5 243°80			0°2/25.5 18	
11 17	6 45.00	+19 17.9	2.033	2.811	14.6	21.0	11 17	6 46.82	+21 14.2	2.131	2.905	14.2	19.2	
11 27	6 40.67	+19 10.5	1.944	2.811	11.6	20.8	11 27	6 42.26	+21 49.5	2.029	2.894	11.3	18.9	
12 7	6 33.88	+19 6.9	1.878	2.810	8.0	20.6	12 7	6 35.13	+22 30.4	1.951	2.883	7.7	18.7	
12 17	6 25.22	+19 6.7	1.838	2.809	4.0	20.3	12 17	6 25.92	+23 14.3	1.898	2.871	3.7	18.4	
12 27	6 15.59	+19 9.1	1.826	2.808	1.6	20.2	12 27	6 15.52	+23 58.1	1.876	2.859	0.7	18.2	
1 6	6 6.13	+19 13.7	1.845	2.807	5.1	20.4	1 6	6 5.06	+24 39.0	1.884	2.847	5.0	18.5	
1 16	5 57.89	+19 20.1	1.891	2.805	9.0	20.6	1 16	5 55.68	+25 15.3	1.921	2.834	9.0	18.7	
1 26	5 51.74	+19 28.5	1.963	2.804	12.5	20.8	1 26	5 48.40	+25 46.8	1.985	2.821	12.6	18.9	
14363	1988 <i>RB</i> ₂	12 25.5 104°18			1°5/25.7 18			43826	1992 <i>UC</i> ₆	12 25.5 55°21			3°2/25.5 18	
11 17	6 51.40	+19 10.1	1.656	2.436	17.4	18.7	11 17	6 48.54	+18 52.0	1.332	2.134	19.7	18.1	
11 27	6 45.94	+19 9.5	1.590	2.457	13.7	18.5	11 27	6 44.40	+18 5.6	1.267	2.145	15.7	17.8	
12 7	6 37.52	+19 14.2	1.545	2.477	9.4	18.3	12 7	6 36.84	+17 22.9	1.221	2.156	10.9	17.6	
12 17	6 26.90	+19 22.8	1.525	2.497	4.6	18.1	12 17	6 26.70	+16 45.5	1.198	2.168	5.8	17.3	
12 27	6 15.33	+19 33.9	1.534	2.516	1.6	17.9	12 27	6 15.42	+16 15.0	1.201	2.180	3.3	17.2	
1 6	6 4.23	+19 46.1	1.572	2.534	5.8	18.3	1 6	6 4.68	+15 52.8	1.231	2.192	7.2	17.5	
1 16	5 54.86	+19 59.0	1.637	2.552	10.1	18.6	1 16	5 55.95	+15 39.6	1.286	2.204	12.0	17.8	
1 26	5 48.18	+20 12.8	1.728	2.570	13.9	18.8	1 26	5 50.27	+15 35.7	1.363	2.217	16.2	18.1	
23957	1998 <i>VL</i> ₁₆	12 25.5 64°42			2°0/25.2 18			518956	2010 <i>HY</i> ₁₉	12 25.5 40°58			6°0/26.6 17	
11 17	6 45.66	+26 45.5	2.140	2.919	14.0	18.4	11 17	6 41.27	+ 5 13.8	2.143	2.894	14.8	20.5	
11 27	6 41.18	+27 28.1	2.062	2.929	11.0	18.2	11 27	6 37.43	+ 4 51.7	2.067	2.902	12.3	20.3	
12 7	6 34.23	+28 11.5	2.007	2.939	7.5	18.0	12 7	6 31.52	+ 4 42.7	2.012	2.911	9.6	20.2	
12 17	6 25.38	+28 52.0	1.979	2.949	3.9	17.8	12 17	6 24.06	+ 4 49.0	1.982	2.920	7.1	20.0	
12 27	6 15.58	+29 26.2	1.980	2.960	2.1	17.7	12 27	6 15.87	+ 5 11.4	1.979	2.929	6.0	20.0	
1 6	6 5.98	+29 52.0	2.011	2.970	5.1	17.9	1 6	6 7.86	+ 5 48.7	2.004	2.938	7.2	20.1	
1 16	5 57.64	+30 8.9	2.070	2.980	8.6	18.1	1 16	6 0.91	+ 6 38.6	2.056	2.948	9.7	20.2	
1 26	5 51.44	+30 18.4	2.155	2.991	11.8	18.4	1 26	5 55.74	+ 7 37.5	2.134	2.958	12.3	20.4	
83440	2001 <i>SK</i> ₅₆	12 25.5 81°80			3°6/25.1 18			13403	Sarahmoussa	12 25.5 158°97			2°9/25.3 18	
11 17	6 47.77	+30 35.1	1.968	2.748	15.0	19.6	11 17	6 53.57	+29 14.5	1.840	2.614			

EPHEMERIDES

12 25.5

12 25.6

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
108630	2001 <i>MR</i> ₂₉		12 25.5 116°05	2°6/25.9	18		37849	1998 <i>DP</i> ₁₆		12 25.6 58°98	2°0/25.6	18	
11 17	6 46.60	+14 29.1	2.266	3.026	13.9	20.5	11 17	6 47.92	+19 57.2	1.491	2.287	18.3	18.7
11 27	6 41.43	+14 31.4	2.191	3.044	11.0	20.3	11 27	6 43.58	+19 32.2	1.426	2.302	14.4	18.5
12 7	6 34.13	+14 40.8	2.138	3.061	7.7	20.1	12 7	6 36.11	+19 11.0	1.381	2.317	9.9	18.3
12 17	6 25.26	+14 57.1	2.113	3.078	4.4	20.0	12 17	6 26.33	+18 53.3	1.360	2.332	5.0	18.0
12 27	6 15.67	+15 19.4	2.118	3.094	2.6	19.9	12 27	6 15.54	+18 39.4	1.366	2.347	2.1	17.9
1 6	6 6.34	+15 46.4	2.153	3.110	5.0	20.0	1 6	6 5.25	+18 29.3	1.400	2.363	6.2	18.2
1 16	5 58.15	+16 16.6	2.218	3.126	8.2	20.3	1 16	5 56.78	+18 23.6	1.460	2.379	10.8	18.5
1 26	5 51.83	+16 49.0	2.309	3.141	11.2	20.5	1 26	5 51.10	+18 22.6	1.543	2.395	14.8	18.8
300760	2007 <i>VP</i> ₂₃₅		12 25.5 24°29	1°7/25.6	17		211392	2002 <i>UB</i> ₄₈		12 25.6 78°65	4°8/26.2	18	
11 17	6 44.77	+20 8.6	1.531	2.331	17.7	20.4	11 17	6 47.37	+10 8.1	1.887	2.648	16.2	20.4
11 27	6 41.20	+19 50.7	1.458	2.336	14.0	20.2	11 27	6 42.25	+9 46.8	1.828	2.676	13.1	20.2
12 7	6 34.58	+19 36.6	1.405	2.342	9.6	19.9	12 7	6 34.76	+9 36.6	1.790	2.704	9.6	20.1
12 17	6 25.64	+19 26.0	1.376	2.348	4.8	19.7	12 17	6 25.56	+9 38.7	1.777	2.731	6.3	19.9
12 27	6 15.60	+19 18.6	1.374	2.355	1.8	19.5	12 27	6 15.68	+9 53.3	1.793	2.758	4.8	19.9
1 6	6 5.90	+19 14.2	1.399	2.363	6.1	19.8	1 6	6 6.23	+10 19.0	1.837	2.785	6.6	20.0
1 16	5 57.87	+19 13.0	1.450	2.371	10.7	20.1	1 16	5 58.19	+10 53.6	1.909	2.811	9.7	20.3
1 26	5 52.51	+19 15.4	1.525	2.380	14.7	20.3	1 26	5 52.31	+11 34.7	2.007	2.837	12.7	20.5
408767	1998 <i>SK</i> ₂₀		12 25.5 87°12	2°3/25.8	18		306215	2011 <i>QH</i> ₃₂		12 25.6 18°42	1°3/25.5	15	
11 17	6 45.04	+15 56.3	2.354	3.118	13.3	22.1	11 17	6 41.00	+26 42.4	2.255	3.041	13.2	20.4
11 27	6 40.07	+15 46.7	2.286	3.142	10.5	21.9	11 27	6 37.37	+26 57.1	2.179	3.050	10.3	20.3
12 7	6 33.12	+15 42.4	2.241	3.166	7.3	21.8	12 7	6 31.56	+27 11.1	2.126	3.060	7.0	20.1
12 17	6 24.74	+15 43.5	2.223	3.189	4.0	21.6	12 17	6 24.13	+27 22.4	2.099	3.071	3.5	19.9
12 27	6 15.77	+15 49.5	2.235	3.212	2.4	21.5	12 27	6 15.94	+27 29.1	2.102	3.083	1.4	19.8
1 6	6 7.11	+16 0.0	2.277	3.235	4.7	21.7	1 6	6 7.99	+27 30.7	2.133	3.095	4.5	20.0
1 16	5 59.56	+16 14.1	2.349	3.257	7.8	22.0	1 16	6 1.19	+27 27.3	2.193	3.108	7.9	20.2
1 26	5 53.80	+16 31.2	2.447	3.279	10.6	22.2	1 26	5 56.28	+27 20.4	2.278	3.122	10.9	20.4
72471	2001 <i>DV</i> ₃₀		12 25.5 156°07	2°7/25.9	18		154729	2004 <i>NQ</i> ₉		12 25.6 101°85	2°0/25.5	18	
11 17	6 43.21	+13 40.1	2.468	3.228	12.9	19.6	11 17	6 54.21	+28 43.2	1.887	2.658	15.9	19.8
11 27	6 38.77	+13 42.8	2.379	3.232	10.3	19.4	11 27	6 47.90	+28 53.7	1.823	2.685	12.5	19.6
12 7	6 32.36	+13 52.8	2.313	3.235	7.3	19.2	12 7	6 38.71	+29 1.1	1.781	2.710	8.5	19.4
12 17	6 24.46	+14 10.0	2.274	3.237	4.2	19.0	12 17	6 27.47	+29 2.0	1.766	2.735	4.4	19.2
12 27	6 15.81	+14 34.0	2.265	3.240	2.7	18.9	12 27	6 15.41	+28 54.1	1.779	2.760	2.1	19.1
1 6	6 7.28	+15 3.4	2.286	3.243	4.8	19.1	1 6	6 3.92	+28 37.4	1.823	2.783	5.4	19.4
1 16	5 59.69	+15 36.9	2.337	3.245	7.9	19.3	1 16	5 54.21	+28 14.0	1.896	2.806	9.3	19.6
1 26	5 53.74	+16 13.0	2.414	3.247	10.8	19.4	1 26	5 47.14	+27 47.2	1.994	2.828	12.7	19.9
275207	2009 <i>WN</i> ₁₇₃		12 25.5 309°88	4°8/25.2	18		464354	2016 <i>AS</i> ₁₂₂		12 25.6 22°95	5°4/25.7	16	
11 17	6 42.95	+12 43.0	2.167	2.934	14.2	20.0	11 17	6 47.83	+37 52.8	1.912	2.687	15.6	20.2
11 27	6 38.85	+11 39.9	2.073	2.926	11.5	19.8	11 27	6 43.46	+38 17.4	1.838	2.694	12.7	20.0
12 7	6 32.56	+10 41.2	2.001	2.918	8.6	19.6	12 7	6 36.04	+38 32.8	1.785	2.701	9.5	19.8
12 17	6 24.60	+9 49.7	1.955	2.909	5.8	19.4	12 17	6 26.33	+38 34.2	1.756	2.709	6.5	19.7
12 27	6 15.79	+9 8.2	1.938	2.901	4.8	19.4	12 27	6 15.58	+38 17.9	1.755	2.717	5.4	19.6
1 6	6 7.10	+8 38.4	1.950	2.893	6.7	19.5	1 6	6 5.28	+37 43.9	1.782	2.726	7.2	19.8
1 16	5 59.47	+8 21.1	1.990	2.886	9.7	19.6	1 16	5 56.71	+36 55.5	1.836	2.735	10.2	20.0
1 26	5 53.68	+8 15.8	2.055	2.878	12.7	19.8	1 26	5 50.85	+35 58.0	1.913	2.745	13.2	20.2
477823	2011 <i>EC</i> ₄₂		12 25.6 20°24	3°2/25.9	18		490583	2009 <i>WP</i> ₁₁₄		12 25.6 357°97	4°3/24.9	17	
11 17	6 45.84	+14 47.8	1.362	2.161	19.5	20.3	11 17	6 46.77	+33 15.3	2.075	2.852	14.4	21.6
11 27	6 42.46	+14 52.3	1.287	2.163	15.7	20.1	11 27	6 42.48	+34 6.9	1.991	2.852	11.6	21.4
12 7	6 35.72	+15 8.9	1.232	2.166	11.0	19.8	12 7	6 35.39	+34 55.3	1.928	2.851	8.4	21.2
12 17	6 26.30	+15 37.7	1.199	2.168	6.1	19.6	12 17	6 26.09	+35 35.5	1.892	2.851	5.4	21.0
12 27	6 15.49	+16 16.7	1.193	2.172	3.3	19.4	12 27	6 15.61	+36 2.9	1.884	2.851	4.4	20.9
1 6	6 4.90	+17 3.0	1.212	2.175	7.0	19.6	1 6	6 5.26	+36 15.1	1.904	2.851	6.5	21.1
1 16	5 56.07	+17 53.2	1.258	2.179	11.9	19.9	1 16	5 56.29	+36 12.7	1.952	2.851	9.7	21.3
1 26	5 50.21	+18 44.5	1.325	2.183	16.3	20.2	1 26	5 49.73	+35 59.0	2.025	2.852	12.8	21.5
189283	2005 <i>TX</i> ₁₄		12 25.6 102°57	0°3/25.6	18		345369	2006 <i>AN</i> ₇₁		12 25.6 174°82	0°4/25.6	18	
11 17	6 55.83	+25 56.1	1.865	2.633	16.2	20.1	11 17	6 48.89	+22 4.7	2.074	2.846	14.6	21.7
11 27	6 48.94	+25 33.5	1.801	2.662	12.6	20.0	11 27	6 43.71	+22 4.9	1.985	2.849	11.5	21.5
12 7	6 39.26	+25 8.6	1.759	2.690	8.5	19.8	12 7	6 35.97	+22 7.1	1.919	2.851	7.9	21.2
12 17	6 27.63	+24 39.6	1.745	2.717	4.0	19.5	12 17	6 26.27	+22 9.8	1.880	2.852	3.7	21.0
12 27	6 15.31	+24 6.3	1.760	2.743	0.7	19.3	12 27	6 15.59	+22 11.7	1.870	2.853	0.7	20.8
1 6	6 3.66	+23 29.9	1.807	2.769	5.2	19.7	1 6	6 5.10	+22 12.1	1.891	2.853	4.9	21.1
1 16	5 53.83	+23 53.1	1.882	2.793	9.3	20.0	1 16	5 55.90	+22 11.3	1.940	2.853	8.9	21.3
1 26	5 46.63	+22 18.6	1.983	2.817	12.7	20.3	1 26	5 48.90	+22 10.1	2.016	2.852	12.4	21.5
487544	2014 <i>UZ</i> ₁₉₇		12 25.6 355°50	3°5/25.5	17		160277	2002 <i>TX</i> ₂₂₂		12 25.6 98°04	0°2/25.6	18	
11 17	6 42.64	+14 59.7	2.192	2.964	13.9	20.8	11 17	6 46.44	+24 50.8	2.532	3.299	12.4	19.8
11 27	6 38.56	+14 16.7	2.104	2.963	11.2	20.6	11 27	6 41.13	+24 22.3	2.452	3.313	9.7	19.7
12 7	6 32.32	+13 38.2	2.039	2.962	8.0	20.4	12 7	6 33.83	+23 52.2	2.396	3.326	6.6	19.5
12 17	6 24.46	+13 5.7	2.000	2.962	4.9	20.2	12 17	6 25.11	+23 19.8	2.367	3.340	3.1	19.3
12 27	6 15.83	+12 40.7	1.990	2.961	3.6	20.1	12 27	6 15.81	+22 45.6	2.370	3.353	0.5	19.1
1 6	6 7.37	+12 24.1	2.009	2.961	5.8	20.2	1 6	6 6.82	+22 10.3	2.404	3.366	4.1	19.4
1 16	5 59.99	+12 16.1	2.056	2.961	9.0	20.4	1 16	5 58.98	+21 35.6	2.468	3.379	7.4	19.6
1 26	5 54.44	+12 16.3	2.129	2.961	12.0	20.6	1 26	5 52.92	+21 3.2	2.559	3.392	10.2	19.8
493171	2014 <i>UF</i> ₁		12 25.6 217°24	3°5/25.7	18		515806	2015 <i>MC</i> ₂₆		12 25.6 159°14	0°5/25		

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
64002	2001 <i>SO</i> ₁₁₆		12 25.6 325°24	5°1/25.5	18		289542	2005 <i>EC</i> ₂₁₇		12 25.6 348°66	6°1/24.9	18	
11 17	6 43.86	+14 30.1	1.420	2.219	18.9	19.1	11 17	6 50.67	+32 19.3	1.306	2.110	20.0	20.2
11 27	6 40.86	+13 38.1	1.335	2.209	15.3	18.8	11 27	6 47.29	+33 32.9	1.231	2.108	16.1	19.9
12 7	6 34.65	+12 52.5	1.269	2.199	11.2	18.5	12 7	6 39.66	+34 45.6	1.176	2.107	11.8	19.7
12 17	6 25.85	+12 16.6	1.226	2.190	7.0	18.3	12 17	6 28.46	+35 48.2	1.143	2.105	7.6	19.5
12 27	6 15.66	+11 53.1	1.208	2.181	5.2	18.1	12 27	6 15.25	+36 31.4	1.135	2.104	6.2	19.4
1 6	6 5.59	+11 43.6	1.217	2.172	8.2	18.3	1 6	6 2.22	+36 50.2	1.153	2.104	9.2	19.5
1 16	5 57.12	+11 48.1	1.250	2.164	12.6	18.5	1 16	5 51.48	+36 46.1	1.195	2.103	13.7	19.8
1 26	5 51.43	+12 5.0	1.305	2.157	16.9	18.7	1 26	5 44.60	+36 25.0	1.258	2.103	17.9	20.0
54055	2000 <i>GL</i> ₁₃₃		12 25.6 260°76	2°6/25.8	18		55813	1994 <i>VQ</i> ₂		12 25.6 56°52	2°3/25.4	18	
11 17	6 44.87	+16 13.4	2.081	2.854	14.5	19.8	11 17	6 50.42	+26 58.6	1.356	2.159	19.4	18.8
11 27	6 40.66	+16 2.8	1.979	2.840	11.7	19.6	11 27	6 46.10	+27 27.3	1.298	2.177	15.3	18.6
12 7	6 34.02	+15 58.0	1.898	2.826	8.2	19.3	12 7	6 38.14	+27 55.9	1.259	2.196	10.5	18.4
12 17	6 25.42	+15 59.4	1.844	2.811	4.6	19.1	12 17	6 27.41	+28 19.4	1.243	2.215	5.3	18.1
12 27	6 15.74	+16 6.7	1.818	2.796	2.6	18.9	12 27	6 15.47	+28 33.6	1.254	2.235	2.4	18.0
1 6	6 6.05	+16 19.4	1.822	2.781	5.5	19.1	1 6	6 4.15	+28 36.9	1.292	2.254	6.7	18.3
1 16	5 57.43	+16 36.7	1.854	2.766	9.4	19.3	1 16	5 55.01	+28 30.8	1.355	2.274	11.5	18.6
1 26	5 50.83	+16 57.8	1.912	2.750	12.9	19.5	1 26	5 49.16	+28 18.8	1.441	2.294	15.5	18.9
278806	2008 <i>SC</i> ₂₄₄		12 25.6 31°25	3°1/25.3	17		94905	2001 <i>YS</i> ₂₄		12 25.6 209°92	0°2/25.6	18	
11 17	6 45.59	+31 30.9	2.159	2.936	13.9	21.2	11 17	6 49.13	+23 33.6	1.947	2.725	15.2	20.8
11 27	6 41.26	+31 58.8	2.076	2.940	11.1	21.0	11 27	6 44.23	+23 38.6	1.853	2.720	12.1	20.5
12 7	6 34.37	+32 23.3	2.017	2.944	7.8	20.8	12 7	6 36.54	+23 45.1	1.782	2.715	8.3	20.3
12 17	6 25.53	+32 40.9	1.983	2.948	4.6	20.6	12 17	6 26.65	+23 50.9	1.736	2.709	3.9	20.0
12 27	6 15.73	+32 48.3	1.978	2.952	3.2	20.6	12 27	6 15.60	+23 54.2	1.719	2.702	0.7	19.8
1 6	6 6.16	+32 44.7	2.003	2.957	5.6	20.7	1 6	6 4.66	+23 54.1	1.733	2.696	5.3	20.1
1 16	5 57.91	+32 31.0	2.055	2.962	8.9	20.9	1 16	5 55.08	+23 50.8	1.774	2.688	9.5	20.3
1 26	5 51.87	+32 10.0	2.132	2.966	11.9	21.1	1 26	5 47.87	+23 45.9	1.841	2.681	13.3	20.5
43761	1986 <i>QQ</i> ₃		12 25.6 64°78	1°7/25.4	18		340806	2006 <i>TQ</i> ₁₀₃		12 25.6 63°93	3°5/25.8	18	
11 17	6 48.69	+26 16.1	1.639	2.431	17.1	18.3	11 17	6 40.95	+12 30.7	2.596	3.356	12.3	20.9
11 27	6 44.19	+26 42.7	1.572	2.446	13.4	18.1	11 27	6 36.83	+12 0.9	2.517	3.367	9.9	20.8
12 7	6 36.58	+27 9.7	1.526	2.461	9.2	17.9	12 7	6 30.97	+11 37.2	2.460	3.377	7.2	20.6
12 17	6 26.61	+27 33.3	1.504	2.476	4.5	17.7	12 17	6 23.83	+11 20.7	2.431	3.388	4.6	20.5
12 27	6 15.56	+27 49.9	1.510	2.492	1.9	17.5	12 27	6 16.10	+11 12.3	2.431	3.398	3.5	20.4
1 6	6 4.93	+27 58.0	1.545	2.507	5.9	17.8	1 6	6 8.57	+11 11.9	2.461	3.409	5.1	20.5
1 16	5 56.06	+27 58.3	1.606	2.523	10.2	18.1	1 16	6 1.94	+11 19.2	2.519	3.420	7.7	20.7
1 26	5 49.95	+27 53.1	1.692	2.538	13.9	18.4	1 26	5 56.81	+11 33.1	2.604	3.430	10.3	20.9
208843	2002 <i>RL</i> ₁₆₇		12 25.6 182°26	7°0/25.2	18		342048	2008 <i>RX</i> ₁₃₀		12 25.6 132°98	0°1/25.6	18	
11 17	6 54.12	+42 1.6	2.105	2.855	15.1	20.6	11 17	6 49.93	+22 5.9	1.901	2.677	15.6	22.0
11 27	6 48.54	+42 54.6	2.022	2.856	12.6	20.5	11 27	6 44.69	+22 17.6	1.823	2.689	12.3	21.8
12 7	6 39.65	+43 38.1	1.960	2.856	10.0	20.3	12 7	6 36.72	+22 32.2	1.768	2.700	8.3	21.6
12 17	6 28.14	+44 4.9	1.924	2.856	7.8	20.2	12 17	6 26.67	+22 47.6	1.738	2.711	4.0	21.3
12 27	6 15.30	+44 9.6	1.915	2.855	7.1	20.1	12 27	6 15.63	+23 1.7	1.738	2.721	0.7	21.1
1 6	6 2.74	+43 50.6	1.934	2.854	8.4	20.2	1 6	6 4.87	+23 13.1	1.767	2.730	5.2	21.4
1 16	5 51.98	+43 10.6	1.979	2.853	10.9	20.3	1 16	5 55.59	+23 21.6	1.825	2.739	9.3	21.7
1 26	5 44.15	+42 15.6	2.049	2.852	13.5	20.5	1 26	5 48.70	+23 28.3	1.909	2.748	12.9	22.0
270237	2001 <i>TM</i> ₂₄₅		12 25.6 186°36	0°8/25.5	18		31103	1997 <i>OE</i> ₂		12 25.6 210°20	2°3/25.8	18	
11 17	6 50.71	+25 11.4	2.037	2.809	14.8	22.6	11 17	6 48.47	+16 33.1	2.032	2.799	15.0	20.7
11 27	6 45.31	+25 22.4	1.946	2.809	11.7	22.4	11 27	6 43.50	+16 28.4	1.935	2.793	12.0	20.5
12 7	6 37.16	+25 33.6	1.878	2.809	8.0	22.2	12 7	6 35.96	+16 29.9	1.859	2.786	8.4	20.3
12 17	6 26.89	+25 42.6	1.835	2.808	3.9	21.9	12 17	6 26.37	+16 37.3	1.811	2.778	4.6	20.0
12 27	6 15.51	+25 47.0	1.823	2.806	1.1	21.7	12 27	6 15.67	+16 50.0	1.791	2.770	2.4	19.8
1 6	6 4.31	+25 45.9	1.841	2.803	5.1	22.0	1 6	6 5.01	+17 7.0	1.801	2.761	5.5	20.0
1 16	5 54.47	+25 39.7	1.888	2.799	9.2	22.2	1 16	5 55.54	+17 27.4	1.841	2.751	9.5	20.2
1 26	5 46.99	+25 30.6	1.960	2.795	12.8	22.4	1 26	5 48.23	+17 50.4	1.905	2.741	13.1	20.5
191009	2001 <i>YS</i> ₁₃₂		12 25.6 11°88	4°6/25.6	18		484771	2009 <i>BH</i> ₁₄₃		12 25.6 285°18	2°3/25.9	17	
11 17	6 48.86	+32 55.1	1.384	2.186	19.1	19.6	11 17	6 45.10	+16 5.1	1.786	2.569	16.2	21.7
11 27	6 45.31	+33 20.7	1.311	2.187	15.4	19.3	11 27	6 41.35	+16 13.4	1.687	2.554	13.0	21.4
12 7	6 37.90	+33 40.2	1.257	2.189	11.0	19.1	12 7	6 34.80	+16 30.5	1.609	2.540	9.2	21.2
12 17	6 27.42	+33 47.5	1.226	2.191	6.6	18.8	12 17	6 25.93	+16 56.2	1.556	2.526	4.9	20.9
12 27	6 15.44	+33 37.9	1.220	2.195	4.7	18.7	12 27	6 15.74	+17 29.1	1.531	2.511	2.4	20.7
1 6	6 3.89	+33 10.5	1.241	2.198	7.8	18.9	1 6	6 5.48	+18 6.9	1.535	2.497	5.9	20.9
1 16	5 54.56	+32 29.1	1.286	2.202	12.2	19.2	1 16	5 56.45	+18 47.7	1.566	2.483	10.4	21.1
1 26	5 48.67	+31 39.8	1.354	2.207	16.4	19.5	1 26	5 49.77	+19 29.7	1.621	2.468	14.4	21.3
516551	2006 <i>VR</i> ₁₁		12 25.6 70°33	1°4/25.6	18		407543	2010 <i>WF</i> ₃₀		12 25.6 170°39	0°6/25.5	17	
11 17	6 46.63	+20 16.4	1.835	2.619	15.8	21.6	11 17	6 45.55	+24 1.9	2.172	2.950	13.9	21.8
11 27	6 42.03	+20 0.8	1.764	2.634	12.4	21.4	11 27	6 41.09	+24 17.8	2.084	2.951	10.9	21.6
12 7	6 34.83	+19 48.2	1.715	2.649	8.5	21.2	12 7	6 34.22	+24 35.2	2.018	2.951	7.4	21.4
12 17	6 25.71	+19 38.2	1.692	2.664	4.2	20.9	12 17	6 25.50	+24 52.0	1.979	2.952	3.5	21.2
12 27	6 15.74	+19 30.4	1.697	2.679	1.6	20.8	12 27	6 15.83	+25 6.1	1.969	2.952	0.8	21.0
1 6	6 6.15	+19 24.7	1.731	2.694	5.3	21.1	1 6	6 6.31	+25 16.3	1.990	2.953	4.7	21.3
1 16	5 58.03	+19 21.3	1.793	2.709	9.3	21.4	1 16	5 57.97	+25 22.4	2.039	2.953	8.5	21.5
1 26	5 52.22	+19 20.7	1.880	2.724	12.8	21.6	1 26	5 51.67	+25 25.5	2.113	2.953	11.8	21.7
514197	2015 <i>MH</i> ₁₁₁		12 25.6 154°34	0°0/25.6	18		354427	2003 <i>WN</i> ₁₂₂		12 25.6 18°90	4°		

EPHEMERIDES

12 25.6

12 25.6

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
132907	2002 <i>RC</i> ₂₄₈		12 25.6	53°70	0°9/25.7	18	88693	2001 <i>RM</i> ₁₃₃		12 25.6	101°25	0°9/25.7	18
11 17	6 43.83	+20 12.7	2.099	2.879	14.2	19.9	11 17	6 50.95	+20 10.7	1.726	2.505	16.8	20.4
11 27	6 39.60	+20 14.0	2.025	2.893	11.1	19.7	11 27	6 45.59	+20 18.4	1.659	2.526	13.2	20.2
12 7	6 33.10	+20 18.7	1.974	2.907	7.6	19.5	12 7	6 37.35	+20 30.6	1.614	2.546	9.0	20.0
12 17	6 24.91	+20 25.9	1.949	2.921	3.7	19.3	12 17	6 26.97	+20 45.6	1.594	2.566	4.3	19.7
12 27	6 15.95	+20 34.6	1.953	2.935	1.1	19.2	12 27	6 15.66	+21 1.4	1.603	2.585	1.1	19.6
1 6	6 7.27	+20 44.0	1.987	2.950	4.7	19.4	1 6	6 4.78	+21 16.5	1.641	2.604	5.5	19.9
1 16	5 59.81	+20 53.6	2.049	2.965	8.3	19.7	1 16	5 55.55	+21 30.5	1.707	2.622	9.8	20.2
1 26	5 54.33	+21 3.5	2.136	2.980	11.6	19.9	1 26	5 48.91	+21 43.8	1.798	2.640	13.4	20.5
122160	2000 <i>JJ</i> ₈₂		12 25.6	177°36	0°5/25.6	18	383064	2005 <i>QG</i> ₁₇₈		12 25.6	45°47	1°3/25.7	16
11 17	6 49.80	+24 11.6	1.851	2.631	15.8	20.8	11 17	6 47.58	+20 32.6	1.307	2.114	19.8	20.9
11 27	6 44.84	+24 20.4	1.765	2.633	12.5	20.6	11 27	6 43.86	+20 25.7	1.245	2.127	15.6	20.7
12 7	6 36.99	+24 30.4	1.701	2.634	8.5	20.3	12 7	6 36.65	+20 23.8	1.201	2.140	10.7	20.4
12 17	6 26.88	+24 39.2	1.662	2.635	4.1	20.1	12 17	6 26.78	+20 25.7	1.180	2.154	5.2	20.2
12 27	6 15.62	+24 44.5	1.652	2.635	0.9	19.8	12 27	6 15.69	+20 30.0	1.185	2.168	1.5	19.9
1 6	6 4.55	+24 45.2	1.671	2.635	5.4	20.2	1 6	6 5.11	+20 35.4	1.217	2.182	6.5	20.3
1 16	5 54.98	+24 41.9	1.719	2.634	9.7	20.4	1 16	5 56.56	+20 42.0	1.274	2.197	11.6	20.6
1 26	5 47.92	+24 36.2	1.792	2.633	13.5	20.6	1 26	5 51.13	+20 50.2	1.353	2.212	15.9	20.9
373923	2003 <i>UN</i> ₂₁₉		12 25.6	115°70	1°6/25.6	18	83585	2001 <i>SC</i> ₂₃₈		12 25.6	79°92	1°8/25.4	18
11 17	6 51.84	+20 42.9	1.567	2.352	18.0	21.2	11 17	6 47.25	+26 14.4	1.935	2.718	15.1	19.4
11 27	6 46.60	+20 21.1	1.496	2.365	14.2	20.9	11 27	6 42.76	+26 50.3	1.857	2.726	11.9	19.2
12 7	6 38.19	+20 2.0	1.445	2.379	9.7	20.7	12 7	6 35.52	+27 27.2	1.801	2.734	8.2	19.0
12 17	6 27.40	+19 45.1	1.420	2.392	4.8	20.5	12 17	6 26.18	+28 1.5	1.770	2.742	4.1	18.8
12 27	6 15.55	+19 30.1	1.422	2.404	1.7	20.3	12 27	6 15.78	+28 29.7	1.769	2.750	1.9	18.7
1 6	6 4.17	+19 17.1	1.453	2.416	6.1	20.6	1 6	6 5.59	+28 49.6	1.797	2.758	5.4	18.9
1 16	5 54.62	+19 7.1	1.511	2.427	10.7	20.9	1 16	5 56.83	+29 1.0	1.853	2.766	9.3	19.2
1 26	5 47.91	+19 1.0	1.593	2.438	14.7	21.2	1 26	5 50.43	+29 5.7	1.934	2.774	12.7	19.4
264278	1997 <i>SO</i> ₁₉		12 25.6	167°21	3°6/25.3	18	482674	2013 <i>CT</i> ₄₈		12 25.6	19°46	4°3/26.6	17
11 17	6 47.27	+34 32.5	2.565	3.326	12.4	21.0	11 17	6 43.75	+10 41.8	1.379	2.174	19.6	21.0
11 27	6 42.25	+35 0.8	2.477	3.328	10.0	20.8	11 27	6 40.73	+11 4.0	1.309	2.179	15.8	20.7
12 7	6 34.90	+35 24.3	2.412	3.330	7.2	20.7	12 7	6 34.53	+11 43.9	1.258	2.186	11.4	20.5
12 17	6 25.79	+35 39.2	2.374	3.332	4.6	20.5	12 17	6 25.82	+12 41.5	1.230	2.194	6.8	20.3
12 27	6 15.81	+35 42.8	2.366	3.333	3.7	20.4	12 27	6 15.83	+13 54.0	1.227	2.203	4.3	20.1
1 6	6 6.02	+35 34.2	2.388	3.334	5.4	20.5	1 6	6 6.08	+15 16.3	1.251	2.212	7.1	20.3
1 16	5 57.40	+35 14.7	2.439	3.335	8.1	20.7	1 16	5 57.99	+16 42.6	1.301	2.223	11.6	20.6
1 26	5 50.77	+34 46.9	2.515	3.336	10.8	20.9	1 26	5 52.69	+18 7.8	1.374	2.234	15.8	20.9
266732	2009 <i>RV</i> ₆₀		12 25.6	55°02	2°8/25.7	17	155021	2005 <i>QD</i> ₄₅		12 25.6	52°41	1°0/25.6	18
11 17	6 48.44	+31 48.9	1.949	2.728	15.2	20.2	11 17	6 50.74	+25 20.4	1.263	2.070	20.3	19.6
11 27	6 43.56	+31 50.6	1.877	2.742	12.0	20.0	11 27	6 46.40	+25 27.0	1.210	2.092	15.9	19.4
12 7	6 35.92	+31 46.7	1.827	2.755	8.4	19.8	12 7	6 38.33	+25 33.8	1.176	2.115	10.8	19.2
12 17	6 26.26	+31 34.1	1.802	2.769	4.7	19.6	12 17	6 27.51	+25 37.7	1.164	2.138	5.1	18.9
12 27	6 15.75	+31 11.0	1.806	2.783	2.8	19.5	12 27	6 15.59	+25 35.7	1.179	2.162	1.3	18.7
1 6	6 5.69	+30 37.9	1.839	2.797	5.6	19.7	1 6	6 4.42	+25 27.4	1.220	2.186	6.6	19.1
1 16	5 57.24	+29 57.5	1.900	2.811	9.2	20.0	1 16	5 55.58	+25 14.7	1.287	2.210	11.6	19.5
1 26	5 51.26	+29 13.6	1.986	2.826	12.5	20.2	1 26	5 50.09	+25 0.5	1.376	2.234	15.8	19.8
275864	2001 <i>SP</i> ₁₇₅		12 25.6	110°08	0°5/25.5	18	415184	2012 <i>GZ</i> ₈		12 25.6	313°64	2°8/25.7	17
11 17	6 51.49	+23 47.2	1.783	2.562	16.4	21.2	11 17	6 43.34	+16 32.2	2.023	2.802	14.7	21.3
11 27	6 46.04	+24 3.5	1.713	2.580	12.9	21.0	11 27	6 39.44	+16 5.7	1.931	2.796	11.8	21.1
12 7	6 37.68	+24 21.5	1.665	2.598	8.7	20.8	12 7	6 33.16	+15 43.8	1.862	2.790	8.3	20.9
12 17	6 27.14	+24 38.4	1.642	2.615	4.1	20.5	12 17	6 25.04	+15 27.4	1.818	2.784	4.7	20.6
12 27	6 15.61	+24 51.6	1.649	2.632	0.9	20.3	12 27	6 15.97	+15 17.1	1.802	2.779	2.9	20.5
1 6	6 4.50	+24 59.7	1.685	2.648	5.4	20.7	1 6	6 7.02	+15 13.2	1.816	2.774	5.6	20.7
1 16	5 55.04	+25 3.2	1.749	2.663	9.6	21.0	1 16	5 59.22	+15 15.5	1.857	2.769	9.3	20.9
1 26	5 48.18	+25 3.6	1.838	2.679	13.3	21.2	1 26	5 53.44	+15 23.7	1.923	2.764	12.7	21.1
404473	2013 <i>GH</i> ₁₃₅		12 25.6	212°67	0°6/25.5	15	411555	2011 <i>CA</i> ₆₀		12 25.6	28°17	3°3/25.6	17
11 17	6 46.10	+23 47.4	2.094	2.873	14.3	21.7	11 17	6 46.91	+32 29.9	1.920	2.702	15.3	20.8
11 27	6 41.67	+24 8.0	2.004	2.871	11.3	21.5	11 27	6 42.58	+32 41.8	1.842	2.708	12.2	20.6
12 7	6 34.72	+24 30.6	1.936	2.869	7.7	21.3	12 7	6 35.40	+32 48.1	1.786	2.714	8.6	20.4
12 17	6 25.79	+24 53.1	1.895	2.867	3.7	21.0	12 17	6 26.10	+32 45.4	1.755	2.721	5.0	20.2
12 27	6 15.83	+25 13.0	1.882	2.865	0.9	20.8	12 27	6 15.81	+32 30.9	1.753	2.728	3.4	20.1
1 6	6 5.98	+25 28.7	1.900	2.863	4.9	21.1	1 6	6 5.87	+32 4.7	1.778	2.735	5.9	20.3
1 16	5 57.34	+25 39.7	1.946	2.860	8.8	21.3	1 16	5 57.51	+31 29.0	1.832	2.743	9.5	20.5
1 26	5 50.84	+25 47.0	2.017	2.858	12.3	21.5	1 26	5 51.64	+30 47.9	1.910	2.751	12.8	20.8
51566	2001 <i>HX</i> ₁		12 25.6	208°04	0°2/25.6	18	220140	2002 <i>TG</i> ₁₂₈		12 25.6	20°22	1°3/25.6	18
11 17	6 50.62	+23 15.4	1.961	2.735	15.3	20.1	11 17	6 47.51	+22 28.4	1.301	2.110	19.8	19.7
11 27	6 45.43	+23 24.2	1.865	2.729	12.1	19.9	11 27	6 43.99	+21 57.9	1.229	2.113	15.7	19.4
12 7	6 37.40	+23 35.0	1.791	2.723	8.3	19.6	12 7	6 36.88	+21 28.0	1.176	2.116	10.7	19.2
12 17	6 27.12	+23 45.6	1.743	2.715	4.0	19.3	12 17	6 26.95	+20 58.6	1.146	2.120	5.2	18.9
12 27	6 15.61	+23 53.7	1.724	2.707	0.7	19.1	12 27	6 15.68	+20 29.8	1.141	2.124	1.6	18.6
1 6	6 4.18	+23 58.0	1.736	2.699	5.3	19.4	1 6	6 4.84	+20 2.9	1.163	2.129	6.8	19.0
1 16	5 54.09	+23 58.9	1.776	2.689	9.6	19.6	1 16	5 56.03	+19 39.8	1.210	2.134	12.1	19.3
1 26	5 46.41	+23 57.6	1.842	2.679	13.4	19.8	1 26	5 50.42	+19 22.3	1.279	2.140	16.6	19.6
141587	2002 <i>HW</i> ₂		12 25.6	260°17	3°1/25.9	18	128386	2004 <i>KL</i> ₅		12 25.6			

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
122097	2000 <i>HW</i> ₆₉		12 25.6 142°64		0°7/25.6 18		301582	2010 <i>AO</i> ₁₀₅		12 25.6 121°58		3°0/25.1 18	
11 17	6 51.29	+25 1.4	1.975	2.748	15.2	20.6	11 17	6 51.13	+28 32.3	1.963	2.737	15.2	21.3
11 27	6 45.71	+25 9.9	1.896	2.759	12.0	20.4	11 27	6 45.86	+29 28.3	1.887	2.750	12.1	21.1
12 7	6 37.41	+25 18.6	1.839	2.770	8.2	20.2	12 7	6 37.69	+30 24.4	1.833	2.762	8.4	20.9
12 17	6 27.04	+25 24.9	1.808	2.780	3.9	20.0	12 17	6 27.26	+31 15.5	1.806	2.773	4.7	20.7
12 27	6 15.70	+25 26.8	1.807	2.789	1.0	19.8	12 27	6 15.69	+31 56.7	1.808	2.784	3.1	20.6
1 6	6 4.67	+25 23.5	1.835	2.798	5.1	20.1	1 6	6 4.33	+32 25.2	1.840	2.795	6.0	20.8
1 16	5 55.12	+25 15.8	1.893	2.806	9.1	20.3	1 16	5 54.48	+32 41.0	1.901	2.805	9.6	21.1
1 26	5 47.98	+25 5.8	1.977	2.813	12.6	20.6	1 26	5 47.15	+32 46.4	1.986	2.815	12.9	21.3
3924	Birch		12 25.6 18°80		3°8/25.6 18 R		18557	1997 <i>CQ</i> ₁₁		12 25.6 349°79		0°6/25.6 18	
11 17	6 47.81	+32 20.1	1.617	2.410	17.2	16.2	11 17	6 45.37	+24 45.2	2.007	2.790	14.6	18.6
11 27	6 43.89	+32 40.6	1.542	2.414	13.8	15.9	11 27	6 41.19	+24 52.4	1.919	2.789	11.5	18.4
12 7	6 36.64	+32 55.9	1.487	2.418	9.8	15.7	12 7	6 34.44	+25 0.2	1.854	2.789	7.9	18.1
12 17	6 26.81	+33 1.0	1.456	2.422	5.7	15.5	12 17	6 25.69	+25 6.5	1.815	2.788	3.8	17.9
12 27	6 15.74	+32 52.3	1.452	2.427	3.9	15.4	12 27	6 15.95	+25 9.6	1.805	2.788	0.9	17.7
1 6	6 5.05	+32 29.3	1.475	2.432	6.8	15.6	1 6	6 6.38	+25 8.6	1.824	2.787	5.0	17.9
1 16	5 56.21	+31 54.6	1.524	2.438	10.9	15.8	1 16	5 58.10	+25 4.0	1.870	2.787	9.0	18.2
1 26	5 50.33	+31 13.2	1.597	2.444	14.6	16.1	1 26	5 52.02	+24 57.1	1.943	2.787	12.5	18.4
228714	2002 <i>RM</i> ₂₅₇		12 25.6 188°60		0°9/25.5 18		361319	2006 <i>UG</i> ₃₄		12 25.6 24°18		2°9/25.8 18	
11 17	6 44.87	+25 19.3	2.799	3.564	11.4	21.2	11 17	6 44.58	+16 30.0	1.821	2.604	15.9	21.4
11 27	6 40.06	+25 43.3	2.703	3.563	9.0	21.0	11 27	6 40.63	+16 8.1	1.738	2.605	12.7	21.2
12 7	6 33.30	+26 7.9	2.632	3.562	6.1	20.8	12 7	6 34.07	+15 52.1	1.678	2.607	8.9	21.0
12 17	6 25.05	+26 31.2	2.589	3.560	3.0	20.6	12 17	6 25.52	+15 42.6	1.642	2.610	5.0	20.8
12 27	6 16.03	+26 51.1	2.576	3.558	1.1	20.5	12 27	6 15.98	+15 39.8	1.634	2.612	3.0	20.7
1 6	6 7.08	+27 6.4	2.595	3.556	4.0	20.7	1 6	6 6.65	+15 43.5	1.655	2.614	5.9	20.8
1 16	5 59.02	+27 16.9	2.644	3.553	7.0	20.9	1 16	5 58.65	+15 53.2	1.703	2.617	9.9	21.1
1 26	5 52.56	+27 23.3	2.720	3.550	9.8	21.1	1 26	5 52.89	+16 8.1	1.775	2.620	13.5	21.3
344881	2004 <i>PQ</i> ₄₉		12 25.6 67°71		0°2/25.6 18		254956	2005 <i>SQ</i> ₂₀₅		12 25.6 180°83		0°8/25.6 18	
11 17	6 50.33	+21 35.2	1.497	2.289	18.4	20.8	11 17	6 47.66	+26 29.9	2.312	3.082	13.3	20.6
11 27	6 45.52	+21 53.3	1.438	2.313	14.4	20.6	11 27	6 42.58	+26 24.9	2.221	3.083	10.5	20.4
12 7	6 37.50	+22 15.9	1.400	2.337	9.7	20.4	12 7	6 35.15	+26 18.3	2.153	3.084	7.2	20.2
12 17	6 27.11	+22 40.0	1.387	2.360	4.6	20.2	12 17	6 25.97	+26 8.2	2.112	3.084	3.5	20.0
12 27	6 15.71	+23 2.8	1.401	2.384	0.7	19.9	12 27	6 15.92	+25 53.4	2.101	3.083	1.0	19.8
1 6	6 4.86	+23 22.2	1.443	2.408	5.9	20.4	1 6	6 6.08	+25 34.1	2.120	3.083	4.5	20.1
1 16	5 55.93	+23 37.8	1.512	2.431	10.5	20.7	1 16	5 57.45	+25 11.4	2.169	3.082	8.2	20.3
1 26	5 49.88	+23 50.5	1.605	2.455	14.4	21.0	1 26	5 50.82	+24 47.4	2.245	3.080	11.4	20.5
142800	2002 <i>UT</i> ₂₃		12 25.6 15°87		1°9/25.5 18		47727	2000 <i>DG</i> ₄₄		12 25.6 116°92		0°1/25.6 18	
11 17	6 46.14	+26 57.6	1.623	2.420	17.0	20.3	11 17	6 44.66	+22 52.9	2.578	3.347	12.2	19.8
11 27	6 42.46	+27 19.9	1.545	2.422	13.4	20.0	11 27	6 39.88	+22 55.8	2.497	3.358	9.5	19.6
12 7	6 35.63	+27 42.2	1.488	2.425	9.2	19.8	12 7	6 33.14	+22 59.8	2.439	3.370	6.4	19.5
12 17	6 26.35	+28 0.7	1.456	2.428	4.7	19.5	12 17	6 24.96	+23 3.7	2.408	3.381	3.0	19.3
12 27	6 15.82	+28 12.1	1.451	2.432	2.1	19.4	12 27	6 16.11	+23 6.4	2.408	3.391	0.5	19.1
1 6	6 5.56	+28 14.9	1.473	2.436	6.0	19.6	1 6	6 7.47	+23 7.5	2.439	3.402	4.0	19.4
1 16	5 56.97	+28 9.7	1.522	2.440	10.5	19.9	1 16	5 59.84	+23 7.0	2.500	3.412	7.2	19.6
1 26	5 51.13	+27 59.2	1.594	2.445	14.4	20.2	1 26	5 53.91	+23 5.7	2.587	3.422	10.1	19.8
321950	2010 <i>TJ</i> ₁₇₀		12 25.6 114°97		0°3/25.6 18		272267	2005 <i>QF</i> ₁₈₈		12 25.6 197°02		4°3/25.4 18	
11 17	6 55.28	+23 3.9	1.646	2.422	17.6	21.4	11 17	6 52.57	+32 51.0	1.725	2.504	16.8	21.4
11 27	6 49.09	+22 55.1	1.579	2.445	13.9	21.2	11 27	6 47.64	+33 26.5	1.640	2.503	13.6	21.1
12 7	6 39.76	+22 47.4	1.534	2.466	9.4	21.0	12 7	6 39.28	+33 57.7	1.576	2.501	9.8	20.9
12 17	6 28.14	+22 38.9	1.514	2.487	4.4	20.8	12 17	6 28.15	+34 18.7	1.537	2.499	6.0	20.7
12 27	6 15.56	+22 28.2	1.524	2.507	0.8	20.5	12 27	6 15.57	+34 24.5	1.525	2.497	4.4	20.6
1 6	6 3.56	+22 15.4	1.563	2.526	5.7	20.9	1 6	6 3.23	+34 13.4	1.542	2.494	7.1	20.7
1 16	5 53.47	+22 1.8	1.629	2.544	10.2	21.2	1 16	5 52.70	+33 47.4	1.585	2.491	11.1	21.0
1 26	5 46.24	+21 49.3	1.721	2.561	14.1	21.5	1 26	5 45.20	+33 11.6	1.653	2.488	14.8	21.2
155170	2005 <i>UK</i> ₁₉₁		12 25.6 84°78		0°4/25.6 18		416542	2004 <i>BK</i> ₆₂		12 25.6 3°93		1°6/25.9 18	
11 17	6 46.09	+24 7.5	2.058	2.838	14.4	20.6	11 17	6 42.58	+16 27.7	2.101	2.878	14.3	20.7
11 27	6 41.57	+24 12.7	1.978	2.846	11.3	20.5	11 27	6 38.82	+16 51.0	2.013	2.878	11.3	20.5
12 7	6 34.56	+24 18.8	1.921	2.854	7.7	20.2	12 7	6 32.75	+17 22.2	1.948	2.878	7.8	20.3
12 17	6 25.70	+24 23.8	1.889	2.862	3.7	20.0	12 17	6 24.90	+18 0.3	1.909	2.879	4.1	20.1
12 27	6 15.95	+24 26.1	1.887	2.870	0.7	19.8	12 27	6 16.11	+18 43.2	1.899	2.880	1.7	19.9
1 6	6 6.45	+24 25.2	1.915	2.878	4.8	20.1	1 6	6 7.40	+19 28.6	1.919	2.882	4.9	20.1
1 16	5 58.26	+24 21.4	1.970	2.886	8.7	20.4	1 16	5 59.77	+20 14.3	1.967	2.883	8.6	20.4
1 26	5 52.21	+24 16.0	2.052	2.894	12.0	20.6	1 26	5 54.08	+20 58.9	2.041	2.885	12.0	20.6
433436	2013 <i>TE</i> ₁₁₂		12 25.6 17°57		2°4/25.8 18		482520	2012 <i>TR</i> ₁₈₉		12 25.6 115°69		0°9/25.5 16	
11 17	6 44.86	+18 44.4	1.119	1.941	21.5	20.4	11 17	6 51.92	+24 53.9	1.810	2.588	16.2	22.5
11 27	6 42.38	+18 32.1	1.055	1.945	17.1	20.2	11 27	6 46.40	+25 11.0	1.739	2.605	12.8	22.3
12 7	6 36.05	+18 27.7	1.008	1.950	11.8	19.9	12 7	6 37.97	+25 29.0	1.689	2.622	8.7	22.1
12 17	6 26.67	+18 30.8	0.982	1.955	6.1	19.6	12 17	6 27.35	+25 44.7	1.665	2.638	4.2	21.9
12 27	6 15.78	+18 40.5	0.980	1.962	2.5	19.4	12 27	6 15.73	+25 55.5	1.671	2.653	1.2	21.7
1 6	6 5.31	+18 55.1	1.003	1.970	7.4	19.7	1 6	6 4.50	+26 0.1	1.706	2.668	5.4	22.0
1 16	5 57.01	+19 13.5	1.050	1.978	13.0	20.0	1 16	5 54.93	+25 59.1	1.769	2.683	9.6	22.3
1 26	5 52.13	+19 34.8	1.117	1.987	17.7	20.4	1 26	5 47.96	+25 54.6	1.857	2.697	13.2	22.6
376070	2010 <i>NA</i> ₄₀		12 25.6 172°25		1°0/25.6 16		66657	1999 <i>SM</i> ₁₉		12 25.6 71°25		9°1/25.2 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
434029	2001 <i>SN</i> ₁₈₂		12 25.6 125°11'	1.4°/25.5 16			246413	2007 <i>UF</i> ₁₃₆		12 25.6 175°96'	1.1°/25.4 18		
11 17	6 52.91	+26 12.4	1.953	2.724	15.4	22.3	11 17	6 49.23	+23 38.0	2.141	2.911	14.3	20.7
11 27	6 46.98	+26 32.1	1.880	2.742	12.1	22.1	11 27	6 44.15	+24 24.2	2.051	2.913	11.2	20.5
12 7	6 38.27	+26 51.5	1.829	2.760	8.3	21.9	12 7	6 36.48	+25 14.3	1.984	2.915	7.7	20.3
12 17	6 27.47	+27 7.3	1.805	2.777	4.1	21.7	12 17	6 26.74	+26 4.6	1.944	2.916	3.7	20.0
12 27	6 15.72	+27 16.8	1.811	2.793	1.5	21.5	12 27	6 15.88	+26 51.5	1.934	2.916	1.3	19.8
1 6	6 4.36	+27 18.8	1.847	2.808	5.2	21.8	1 6	6 5.07	+27 31.8	1.956	2.916	5.0	20.1
1 16	5 54.58	+27 14.2	1.912	2.823	9.2	22.1	1 16	5 55.47	+28 4.3	2.006	2.916	8.9	20.3
1 26	5 47.29	+27 5.4	2.002	2.836	12.6	22.3	1 26	5 48.04	+28 29.6	2.083	2.915	12.2	20.6
394173	2006 <i>QR</i> ₁₆₄		12 25.6 137°44'	6.7°/26.1 18			180514	2004 <i>DB</i> ₂₁		12 25.6 235°24'	2.7°/26.0 18		
11 17	6 45.75	+ 3 21.6	2.422	3.147	14.0	21.7	11 17	6 45.69	+13 35.8	2.495	3.249	12.9	21.0
11 27	6 40.64	+ 2 27.9	2.347	3.161	11.8	21.6	11 27	6 40.94	+13 38.3	2.385	3.234	10.4	20.8
12 7	6 33.61	+ 1 45.6	2.293	3.174	9.4	21.4	12 7	6 34.08	+13 48.2	2.299	3.219	7.4	20.6
12 17	6 25.18	+ 1 17.6	2.265	3.186	7.4	21.3	12 17	6 25.55	+14 5.6	2.240	3.203	4.4	20.4
12 27	6 16.10	+ 1 6.1	2.266	3.198	6.7	21.3	12 27	6 16.08	+14 30.1	2.211	3.186	2.8	20.2
1 6	6 7.23	+ 1 11.4	2.296	3.209	7.7	21.4	1 6	6 6.54	+15 0.5	2.213	3.169	5.0	20.3
1 16	5 59.38	+ 1 32.1	2.353	3.220	9.7	21.5	1 16	5 57.86	+15 35.4	2.245	3.151	8.2	20.5
1 26	5 53.20	+ 2 5.7	2.435	3.230	11.9	21.7	1 26	5 50.84	+16 13.3	2.304	3.133	11.3	20.7
34778	Huhunglick		12 25.6 354°54'	3.6°/25.3 17			10064	Hirosetamotsu		12 25.6 90°15'	4.5°/25.2 18 R		
11 17	6 45.21	+30 13.4	1.580	2.381	17.2	18.8	11 17	6 51.60	+34 1.8	1.997	2.767	15.2	16.8
11 27	6 42.04	+30 48.8	1.500	2.377	13.8	18.5	11 27	6 46.23	+34 53.2	1.930	2.786	12.2	16.6
12 7	6 35.56	+31 22.2	1.440	2.374	9.7	18.3	12 7	6 37.91	+35 39.7	1.885	2.804	8.8	16.4
12 17	6 26.42	+31 48.7	1.403	2.371	5.5	18.1	12 17	6 27.37	+36 15.8	1.866	2.823	5.7	16.3
12 27	6 15.87	+32 3.5	1.393	2.370	3.7	17.9	12 27	6 15.80	+36 36.9	1.875	2.841	4.6	16.2
1 6	6 5.53	+32 4.6	1.411	2.369	6.9	18.1	1 6	6 4.60	+36 41.4	1.914	2.859	6.6	16.4
1 16	5 56.91	+31 53.2	1.453	2.369	11.1	18.4	1 16	5 55.06	+36 30.9	1.980	2.877	9.7	16.6
1 26	5 51.21	+31 32.8	1.519	2.370	15.0	18.6	1 26	5 48.12	+36 9.6	2.071	2.894	12.7	16.8
264822	2002 <i>PH</i> ₁₅₆		12 25.6 160°99'	4.6°/25.6 18			514151	2015 <i>KA</i> ₉₂		12 25.6 68°71'	1.2°/25.8 18		
11 17	6 49.80	+38 52.2	2.641	3.390	12.4	20.7	11 17	6 48.73	+18 16.5	1.477	2.270	18.6	21.1
11 27	6 44.23	+39 14.0	2.555	3.393	10.1	20.5	11 27	6 44.47	+18 40.1	1.410	2.284	14.7	20.9
12 7	6 36.25	+39 28.1	2.491	3.397	7.6	20.4	12 7	6 37.00	+19 12.4	1.362	2.298	10.0	20.6
12 17	6 26.49	+39 30.4	2.454	3.399	5.4	20.2	12 17	6 27.03	+19 51.2	1.339	2.312	4.9	20.4
12 27	6 15.89	+39 18.2	2.446	3.402	4.6	20.2	12 27	6 15.86	+20 33.1	1.343	2.326	1.4	20.2
1 6	6 5.57	+38 51.2	2.468	3.404	5.9	20.3	1 6	6 5.05	+21 14.7	1.375	2.340	6.1	20.5
1 16	5 56.55	+38 11.5	2.519	3.406	8.3	20.4	1 16	5 56.02	+21 53.9	1.434	2.354	10.8	20.8
1 26	5 49.63	+37 22.9	2.597	3.408	10.7	20.6	1 26	5 49.85	+22 30.0	1.516	2.369	14.9	21.1
216662	2003 <i>XN</i> ₄₁		12 25.6 92°54'	2.7°/25.7 18			111711	2002 <i>CT</i> ₂₇		12 25.6 252°12'	2.7°/25.4 18		
11 17	6 53.24	+18 17.3	1.532	2.313	18.5	20.4	11 17	6 49.34	+28 39.3	1.794	2.578	16.1	20.0
11 27	6 47.52	+17 47.3	1.472	2.339	14.6	20.2	11 27	6 44.96	+29 9.5	1.700	2.569	12.9	19.8
12 7	6 38.71	+17 22.2	1.433	2.364	10.1	20.0	12 7	6 37.43	+29 39.0	1.628	2.560	9.0	19.5
12 17	6 27.66	+17 2.4	1.419	2.388	5.3	19.8	12 17	6 27.33	+30 3.6	1.581	2.551	4.9	19.2
12 27	6 15.73	+16 48.1	1.433	2.412	2.8	19.7	12 27	6 15.80	+30 19.1	1.562	2.541	2.8	19.1
1 6	6 4.43	+16 39.5	1.475	2.435	6.4	20.0	1 6	6 4.33	+30 23.3	1.572	2.531	6.2	19.3
1 16	5 55.06	+16 36.7	1.544	2.458	10.7	20.3	1 16	5 54.37	+30 16.9	1.609	2.521	10.5	19.5
1 26	5 48.52	+16 39.7	1.638	2.480	14.5	20.6	1 26	5 47.11	+30 2.7	1.670	2.511	14.4	19.7
291087	2005 <i>YT</i> ₁₃₁		12 25.6 203°13'	2.4°/26.0 18			224108	2005 <i>PD</i> ₃		12 25.6 151°19'	0.8°/25.6 18		
11 17	6 43.64	+13 55.4	2.743	3.497	11.9	21.5	11 17	6 52.26	+25 30.4	1.891	2.665	15.7	21.5
11 27	6 39.04	+14 1.6	2.644	3.493	9.5	21.4	11 27	6 46.67	+25 35.3	1.810	2.674	12.4	21.3
12 7	6 32.60	+14 14.4	2.568	3.488	6.7	21.2	12 7	6 38.19	+25 39.9	1.751	2.683	8.5	21.0
12 17	6 24.76	+14 33.7	2.520	3.483	3.9	21.0	12 17	6 27.52	+25 41.5	1.718	2.690	4.1	20.8
12 27	6 16.17	+14 58.8	2.503	3.478	2.4	20.9	12 27	6 15.80	+25 38.1	1.715	2.697	1.1	20.6
1 6	6 7.63	+15 28.7	2.516	3.473	4.4	21.0	1 6	6 4.39	+25 29.0	1.741	2.703	5.3	20.9
1 16	5 59.89	+16 2.1	2.560	3.467	7.3	21.2	1 16	5 54.56	+25 15.4	1.796	2.709	9.5	21.2
1 26	5 53.63	+16 37.8	2.631	3.460	10.1	21.3	1 26	5 47.25	+24 59.8	1.876	2.714	13.2	21.4
495502	2014 <i>UY</i> ₁₇₀		12 25.6 328°17'	1.7°/25.3 18			369878	2012 <i>LB</i> ₇		12 25.6 263°73'	4.1°/25.9 18		
11 17	6 44.31	+25 52.2	2.165	2.946	13.8	21.2	11 17	6 42.34	+11 23.7	2.349	3.110	13.4	21.0
11 27	6 40.36	+26 33.9	2.072	2.941	10.9	21.0	11 27	6 38.31	+10 54.2	2.256	3.104	10.9	21.0
12 7	6 33.93	+27 17.6	2.002	2.935	7.5	20.8	12 7	6 32.26	+10 31.8	2.184	3.099	8.1	20.8
12 17	6 25.53	+28 0.0	1.959	2.930	3.8	20.6	12 17	6 24.66	+10 18.3	2.139	3.094	5.3	20.6
12 27	6 16.05	+28 37.8	1.945	2.926	1.9	20.4	12 27	6 16.26	+10 14.5	2.123	3.089	4.2	20.6
1 6	6 6.61	+29 8.4	1.961	2.921	5.1	20.6	1 6	6 7.96	+10 20.8	2.136	3.084	5.9	20.7
1 16	5 58.29	+29 30.8	2.005	2.917	8.7	20.8	1 16	6 0.59	+10 36.2	2.178	3.078	8.8	20.8
1 26	5 52.03	+29 46.1	2.074	2.913	12.1	21.0	1 26	5 54.90	+10 59.5	2.245	3.073	11.6	21.0
221844	2008 <i>FT</i> ₆₇		12 25.6 175°88'	1.3°/25.5 18			389435	2010 <i>CH</i> ₇₃		12 25.6 344°77'	2.3°/25.8 18		
11 17	6 50.53	+25 10.8	1.670	2.456	17.0	20.8	11 17	6 43.37	+18 32.6	1.296	2.109	19.6	21.0
11 27	6 45.86	+25 34.2	1.586	2.457	13.5	20.5	11 27	6 40.94	+18 21.4	1.217	2.102	15.7	20.7
12 7	6 37.98	+25 59.5	1.524	2.458	9.3	20.3	12 7	6 35.03	+18 17.1	1.156	2.095	10.9	20.4
12 17	6 27.53	+26 22.9	1.486	2.459	4.5	20.0	12 17	6 26.28	+18 19.9	1.117	2.090	5.7	20.1
12 27	6 15.73	+26 40.8	1.477	2.459	1.5	19.8	12 27	6 15.99	+18 29.0	1.103	2.085	2.4	19.9
1 6	6 4.13	+26 51.3	1.496	2.459	6.0	20.1	1 6	6 5.84	+18 43.2	1.115	2.081	7.0	20.1
1 16	5 54.19	+26 54.5	1.543	2.459	10.6	20.4	1 16	5 57.49	+19 1.4	1.151	2.078	12.3	20.4
1 26	5 47.05	+26 52.5	1.614	2.458	14.6	20.6	1 26	5 52.20	+19 22.7	1.209	2.075	17.0	20.7
158193	2001 <i>RA</i> ₁₃₇		12 25.6 40°64'	4.4°/25.2 18			241341	2007 <i>VS</i> ₂₉₉		12 25.6 57°46'			

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
376652	2013 <i>QO</i> ₄		12 25.6 189°33	4.0°/26.1	18		74641	1999 <i>RX</i> ₆₀		12 25.6 242°94	3.6°/25.8	18	
11 17	6 42.31	+10 18.9	2.488	3.241	12.9	21.4	11 17	6 48.51	+15 33.4	1.638	2.419	17.5	19.4
11 27	6 38.14	+10 0.7	2.397	3.241	10.5	21.2	11 27	6 44.27	+15 8.1	1.543	2.408	14.1	19.2
12 7	6 32.06	+9 50.6	2.329	3.241	7.8	21.0	12 7	6 36.96	+14 49.5	1.470	2.398	10.1	18.9
12 17	6 24.54	+9 49.9	2.287	3.240	5.2	20.9	12 17	6 27.14	+14 38.9	1.420	2.386	5.8	18.6
12 27	6 16.30	+9 59.1	2.275	3.239	4.0	20.8	12 27	6 15.91	+14 36.9	1.398	2.374	3.7	18.5
1 6	6 8.15	+10 17.9	2.292	3.238	5.6	20.9	1 6	6 4.70	+14 43.3	1.404	2.362	6.9	18.6
1 16	6 0.90	+10 44.9	2.338	3.237	8.3	21.1	1 16	5 54.93	+14 57.6	1.436	2.350	11.4	18.8
1 26	5 55.22	+11 18.5	2.410	3.236	11.0	21.2	1 26	5 47.77	+15 18.7	1.492	2.337	15.6	19.1
448513	2010 <i>NU</i> ₄₅		12 25.6 85°84	9.7°/27.1	17		232705	2004 <i>BE</i> ₄₈		12 25.6 83°57	4.4°/26.7	18	
11 17	6 46.01	- 4 41.0	2.190	2.887	16.0	21.5	11 17	6 48.51	+ 8 42.6	1.901	2.655	16.4	19.8
11 27	6 40.93	- 5 55.6	2.137	2.915	14.0	21.4	11 27	6 43.35	+ 8 58.5	1.835	2.679	13.2	19.6
12 7	6 33.82	- 6 52.3	2.104	2.943	11.9	21.3	12 7	6 35.73	+ 9 28.2	1.791	2.703	9.7	19.5
12 17	6 25.29	- 7 26.6	2.095	2.970	10.3	21.2	12 17	6 26.31	+10 11.8	1.772	2.727	6.2	19.3
12 27	6 16.19	- 7 35.6	2.111	2.998	9.7	21.2	12 27	6 16.08	+11 7.4	1.782	2.751	4.4	19.2
1 6	6 7.44	- 7 19.7	2.154	3.024	10.3	21.3	1 6	6 6.17	+12 11.9	1.821	2.774	6.3	19.4
1 16	5 59.86	- 6 41.5	2.221	3.050	11.7	21.5	1 16	5 57.64	+13 21.5	1.890	2.796	9.5	19.6
1 26	5 54.11	- 5 45.7	2.312	3.076	13.4	21.6	1 26	5 51.28	+14 32.6	1.984	2.819	12.7	19.9
393000	2012 <i>XK</i> ₁₂₀		12 25.6 48°88	3.1°/25.6	18		279862	2001 <i>FU</i> ₁₁₁		12 25.6 298°58	4.9°/25.2	18	
11 17	6 49.47	+30 5.8	1.527	2.322	18.0	20.6	11 17	6 47.99	+36 29.4	2.199	2.966	14.0	20.7
11 27	6 45.22	+30 26.1	1.460	2.334	14.2	20.4	11 27	6 43.48	+37 10.7	2.109	2.961	11.4	20.5
12 7	6 37.56	+30 42.9	1.413	2.346	9.9	20.1	12 7	6 36.17	+37 46.2	2.042	2.956	8.5	20.3
12 17	6 27.31	+30 51.4	1.390	2.359	5.4	19.9	12 17	6 26.66	+38 10.8	2.000	2.952	5.9	20.1
12 27	6 15.87	+30 48.3	1.394	2.372	3.2	19.8	12 27	6 16.00	+38 20.5	1.987	2.947	5.0	20.1
1 6	6 4.92	+30 32.8	1.425	2.385	6.6	20.1	1 6	6 5.48	+38 13.6	2.002	2.943	6.7	20.2
1 16	5 55.96	+30 7.5	1.483	2.399	10.9	20.3	1 16	5 56.34	+37 51.4	2.044	2.938	9.6	20.3
1 26	5 50.03	+29 36.5	1.564	2.413	14.7	20.6	1 26	5 49.60	+37 17.9	2.112	2.934	12.5	20.5
342257	2008 <i>SW</i> ₂₉₈		12 25.6 132°79	4.1°/25.4	18		25990	2001 <i>FJ</i> ₇₀		12 25.6 116°26	2.7°/25.9	18	
11 17	6 54.59	+33 31.4	2.021	2.784	15.2	22.0	11 17	6 50.96	+15 53.5	1.772	2.543	16.8	19.0
11 27	6 48.54	+34 10.8	1.946	2.799	12.2	21.8	11 27	6 45.54	+15 47.2	1.702	2.562	13.3	18.8
12 7	6 39.48	+34 45.4	1.894	2.814	8.8	21.6	12 7	6 37.35	+15 48.3	1.653	2.580	9.3	18.6
12 17	6 28.15	+35 9.7	1.868	2.828	5.5	21.5	12 17	6 27.12	+15 56.7	1.630	2.597	5.1	18.4
12 27	6 15.75	+35 19.6	1.872	2.841	4.2	21.4	12 27	6 15.95	+16 11.3	1.636	2.614	2.8	18.2
1 6	6 3.71	+35 13.7	1.905	2.853	6.4	21.6	1 6	6 5.16	+16 30.8	1.671	2.630	5.9	18.5
1 16	5 53.36	+34 54.2	1.966	2.864	9.7	21.8	1 16	5 55.92	+16 54.1	1.734	2.646	9.9	18.8
1 26	5 45.68	+34 25.2	2.053	2.875	12.8	22.0	1 26	5 49.14	+17 20.0	1.822	2.661	13.5	19.0
324666	2007 <i>DU</i> ₂₈		12 25.6 358°98	3.1°/25.4	17		202384	2005 <i>GU</i> ₅₉		12 25.6 316°27	0.6°/25.7	18	
11 17	6 47.24	+31 13.8	2.099	2.876	14.3	21.3	11 17	6 42.68	+21 29.3	2.163	2.945	13.8	20.8
11 27	6 42.76	+31 42.8	2.013	2.876	11.4	21.1	11 27	6 38.98	+21 29.4	2.064	2.934	10.9	20.6
12 7	6 35.60	+32 8.8	1.949	2.876	8.1	20.9	12 7	6 32.95	+21 32.0	1.989	2.922	7.5	20.4
12 17	6 26.35	+32 27.9	1.910	2.876	4.7	20.7	12 17	6 25.10	+21 36.1	1.939	2.912	3.6	20.1
12 27	6 16.03	+32 36.7	1.901	2.876	3.2	20.6	12 27	6 16.26	+21 40.8	1.918	2.901	0.8	19.9
1 6	6 5.90	+32 34.0	1.921	2.876	5.7	20.8	1 6	6 7.47	+21 45.3	1.927	2.891	4.7	20.1
1 16	5 57.12	+32 20.7	1.969	2.876	9.2	21.0	1 16	5 59.75	+21 49.5	1.963	2.881	8.6	20.4
1 26	5 50.64	+31 59.8	2.041	2.876	12.4	21.2	1 26	5 53.97	+21 53.7	2.026	2.871	12.0	20.5
417440	2006 <i>KJ</i> ₉₅		12 25.6 187°97	0.2°/25.7	18		310331	2011 <i>UQ</i> ₁₈₀		12 25.6 286°32	0.7°/25.6	17	
11 17	6 43.83	+21 0.8	2.635	3.402	12.0	21.0	11 17	6 46.71	+25 4.6	1.833	2.620	15.7	21.0
11 27	6 39.36	+21 23.5	2.541	3.402	9.4	20.8	11 27	6 42.73	+25 6.8	1.734	2.605	12.5	20.7
12 7	6 32.93	+21 49.7	2.471	3.401	6.4	20.6	12 7	6 35.85	+25 9.1	1.656	2.591	8.6	20.5
12 17	6 24.98	+22 17.7	2.428	3.401	3.1	20.4	12 17	6 26.59	+25 9.6	1.603	2.576	4.2	20.2
12 27	6 16.25	+22 45.8	2.417	3.400	0.5	20.2	12 27	6 16.02	+25 6.0	1.578	2.561	0.9	19.9
1 6	6 7.59	+23 12.4	2.436	3.399	4.0	20.5	1 6	6 5.48	+24 57.7	1.582	2.546	5.5	20.2
1 16	5 59.81	+23 36.8	2.485	3.397	7.2	20.7	1 16	5 56.29	+24 45.3	1.613	2.531	10.0	20.4
1 26	5 53.65	+23 58.7	2.561	3.396	10.1	20.8	1 26	5 49.57	+24 31.1	1.669	2.517	14.0	20.6
520251	2014 <i>DF</i> ₁₅₅		12 25.6 187°42	2.2°/25.2	18		486847	2014 <i>JD</i> ₆₂		12 25.6 16°83	9.2°/25.9	18	
11 17	6 49.87	+25 34.6	1.979	2.755	15.1	21.6	11 17	6 43.39	+ 3 45.3	1.631	2.393	18.3	20.6
11 27	6 45.02	+26 36.6	1.890	2.755	11.9	21.4	11 27	6 39.89	+ 2 25.5	1.558	2.395	15.5	20.4
12 7	6 37.30	+27 42.5	1.824	2.755	8.2	21.2	12 7	6 33.71	+ 1 20.0	1.505	2.397	12.6	20.2
12 17	6 27.25	+28 47.4	1.784	2.754	4.3	20.9	12 17	6 25.47	+ 0 34.8	1.474	2.400	10.1	20.1
12 27	6 15.88	+29 46.2	1.774	2.753	2.4	20.8	12 27	6 16.22	+ 0 14.2	1.468	2.404	9.3	20.1
1 6	6 4.51	+30 34.7	1.793	2.751	5.7	21.0	1 6	6 7.19	+ 0 19.4	1.488	2.407	10.5	20.1
1 16	5 54.45	+31 11.6	1.842	2.750	9.7	21.3	1 16	5 59.55	+ 0 48.5	1.532	2.412	13.1	20.3
1 26	5 46.81	+31 37.8	1.916	2.748	13.2	21.5	1 26	5 54.22	+ 1 36.9	1.598	2.416	16.0	20.5
265433	2004 <i>VJ</i> ₇₀		12 25.6 51°02	2.8°/25.8	17		462432	2008 <i>TH</i> ₁₃₉		12 25.6 200°90	5.7°/25.0	17	
11 17	6 43.60	+16 5.2	2.155	2.929	14.1	20.5	11 17	6 48.84	+39 41.8	2.433	3.188	13.2	21.7
11 27	6 39.46	+15 41.2	2.070	2.931	11.2	20.3	11 27	6 43.98	+40 34.9	2.348	3.187	10.9	21.6
12 7	6 33.10	+15 22.2	2.007	2.934	7.9	20.1	12 7	6 36.43	+41 21.2	2.285	3.187	8.4	21.4
12 17	6 25.08	+15 8.8	1.971	2.937	4.5	19.9	12 17	6 26.78	+41 55.1	2.248	3.187	6.4	21.3
12 27	6 16.25	+15 1.6	1.963	2.939	2.8	19.8	12 27	6 16.02	+42 12.5	2.240	3.186	5.8	21.2
1 6	6 7.59	+15 0.5	1.985	2.942	5.3	20.0	1 6	6 5.41	+42 11.5	2.260	3.186	7.1	21.3
1 16	6 0.05	+15 5.3	2.035	2.945	8.7	20.2	1 16	5 56.12	+41 53.4	2.308	3.185	9.4	21.5
1 26	5 54.39	+15 15.3	2.110	2.948	11.9	20.4	1 26	5 49.14	+41 22.2	2.380	3.185	11.8	21.6
389649	2011 <i>NW</i> ₃		12 25.6 168°66	4.5°/25.5	18		464141	2014 <i>XW</i> ₄					

EPHEMERIDES

12 25.6

12 25.7

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
69281	1990 <i>SG</i> ₆		12 25.6	36°77'	3°1/25.4	18	72589	2001 <i>FY</i> ₃		12 25.7	328°44'	9°7/25.9	18
11 17	6 47.80	+28 16.0	1.444	2.246	18.5	18.9	11 17	6 42.82	+2 28.6	1.658	2.416	18.3	19.0
11 27	6 44.13	+28 58.2	1.380	2.259	14.6	18.7	11 27	6 39.54	+1 13.1	1.576	2.409	15.6	18.8
12 7	6 36.97	+29 40.1	1.336	2.272	10.1	18.5	12 7	6 33.57	+0 12.3	1.514	2.402	12.8	18.6
12 17	6 27.12	+30 16.2	1.316	2.286	5.4	18.2	12 17	6 25.49	-0 27.5	1.474	2.396	10.5	18.4
12 27	6 15.98	+30 41.4	1.322	2.301	3.2	18.1	12 27	6 16.27	-0 41.7	1.459	2.391	9.7	18.3
1 6	6 5.28	+30 53.4	1.355	2.316	6.8	18.4	1 6	6 7.17	-0 29.0	1.469	2.385	10.9	18.4
1 16	5 56.55	+30 53.2	1.414	2.331	11.2	18.7	1 16	5 59.35	+0 8.8	1.502	2.380	13.5	18.5
1 26	5 50.93	+30 44.2	1.496	2.347	15.1	19.0	1 26	5 53.82	+1 6.8	1.558	2.376	16.4	18.7
268604	2006 <i>BO</i> ₂₅₄		12 25.6	191°96'	3°9/26.2	17	353778	2012 <i>HA</i> ₇₇		12 25.7	284°92'	4°5/25.8	18 R
11 17	6 42.92	+10 33.3	2.447	3.201	13.1	21.1	11 17	6 42.83	+11 28.1	2.227	2.990	14.0	20.4
11 27	6 38.68	+10 21.0	2.355	3.200	10.7	21.0	11 27	6 38.83	+10 49.2	2.135	2.985	11.4	20.2
12 7	6 32.48	+10 17.1	2.286	3.199	7.9	20.8	12 7	6 32.70	+10 17.2	2.066	2.981	8.4	20.0
12 17	6 24.80	+10 22.7	2.244	3.198	5.1	20.6	12 17	6 24.95	+9 54.3	2.022	2.976	5.7	19.9
12 27	6 16.35	+10 38.2	2.231	3.197	3.9	20.5	12 27	6 16.37	+9 41.8	2.007	2.972	4.5	19.8
1 6	6 8.00	+11 2.7	2.247	3.196	5.5	20.6	1 6	6 7.89	+9 40.3	2.021	2.967	6.3	19.9
1 16	6 0.55	+11 34.9	2.293	3.194	8.3	20.8	1 16	6 0.42	+9 49.2	2.063	2.963	9.2	20.0
1 26	5 54.73	+12 13.0	2.364	3.192	11.1	21.0	1 26	5 54.72	+10 7.4	2.130	2.958	12.2	20.2
494129	2016 <i>CK</i> ₁₅₈		12 25.6	82°17'	3°9/26.3	17	365594	2010 <i>TC</i> ₁₆₃		12 25.7	288°94'	2°9/25.6	17
11 17	6 42.61	+10 27.4	2.347	3.105	13.5	21.5	11 17	6 44.85	+17 16.4	1.964	2.743	15.1	21.0
11 27	6 38.46	+10 19.2	2.264	3.111	10.9	21.3	11 27	6 40.80	+16 41.2	1.869	2.734	12.1	20.8
12 7	6 32.33	+10 20.3	2.204	3.118	8.0	21.2	12 7	6 34.26	+16 9.4	1.796	2.725	8.5	20.5
12 17	6 24.72	+10 31.4	2.170	3.125	5.2	21.0	12 17	6 25.76	+15 42.1	1.749	2.716	4.8	20.3
12 27	6 16.37	+10 52.5	2.164	3.132	3.9	20.9	12 27	6 16.24	+15 20.4	1.730	2.707	3.0	20.2
1 6	6 8.17	+11 22.7	2.189	3.138	5.6	21.0	1 6	6 6.82	+15 5.0	1.740	2.699	5.8	20.3
1 16	6 0.95	+12 0.1	2.242	3.145	8.4	21.2	1 16	5 58.59	+14 56.5	1.778	2.690	9.7	20.5
1 26	5 55.40	+12 42.7	2.320	3.152	11.2	21.4	1 26	5 52.48	+14 54.9	1.841	2.681	13.2	20.7
82252	2001 <i>KY</i> ₄		12 25.6	157°52'	1°9/25.4	18	216417	2008 <i>SD</i> ₁₀₀		12 25.7	74°21'	6°5/24.7	17
11 17	6 52.86	+26 34.4	2.073	2.840	14.8	20.4	11 17	6 50.27	+40 56.7	2.327	3.079	13.8	20.1
11 27	6 47.06	+27 11.8	1.989	2.849	11.7	20.2	11 27	6 45.30	+42 8.6	2.253	3.088	11.4	19.9
12 7	6 38.48	+27 50.0	1.928	2.857	8.0	20.0	12 7	6 37.44	+43 13.0	2.201	3.096	9.0	19.8
12 17	6 27.74	+28 25.0	1.895	2.864	4.1	19.7	12 17	6 27.31	+44 3.5	2.175	3.105	7.1	19.7
12 27	6 15.90	+28 52.9	1.891	2.871	2.0	19.6	12 27	6 15.99	+44 34.8	2.177	3.113	6.6	19.7
1 6	6 4.25	+29 11.6	1.918	2.877	5.3	19.8	1 6	6 4.85	+44 45.0	2.207	3.122	7.8	19.7
1 16	5 54.00	+29 21.2	1.974	2.881	9.1	20.1	1 16	5 55.16	+44 35.4	2.263	3.131	10.0	19.9
1 26	5 46.15	+29 23.7	2.056	2.885	12.5	20.3	1 26	5 47.97	+44 10.3	2.344	3.139	12.3	20.1
66744	1999 <i>TM</i> ₁₂₈		12 25.6	73°75'	6°6/26.0	18	14350	1985 <i>VA</i> ₁		12 25.7	178°07'	0°9/25.4	18
11 17	6 56.55	+40 7.3	1.695	2.461	17.6	19.0	11 17	6 45.56	+23 18.2	2.617	3.383	12.1	18.3
11 27	6 50.71	+40 39.8	1.634	2.482	14.4	18.9	11 27	6 40.83	+24 3.5	2.523	3.383	9.5	18.1
12 7	6 41.19	+41 0.3	1.594	2.502	11.0	18.7	12 7	6 34.02	+24 52.1	2.454	3.384	6.5	17.9
12 17	6 29.00	+41 2.0	1.577	2.522	7.9	18.6	12 17	6 25.59	+25 41.3	2.413	3.384	3.1	17.7
12 27	6 15.73	+40 40.4	1.587	2.543	6.6	18.5	12 27	6 16.27	+26 28.1	2.402	3.384	1.0	17.5
1 6	6 3.25	+39 56.1	1.625	2.563	8.3	18.7	1 6	6 6.98	+27 10.1	2.423	3.384	4.2	17.7
1 16	5 53.09	+38 54.2	1.690	2.583	11.3	18.9	1 16	5 58.59	+27 46.1	2.475	3.384	7.4	18.0
1 26	5 46.26	+37 42.5	1.778	2.603	14.3	19.1	1 26	5 51.89	+28 16.1	2.553	3.383	10.3	18.1
295312	2008 <i>GC</i> ₁₂₉		12 25.6	136°04'	0°9/25.7	18	414369	2008 <i>UM</i> ₀₂		12 25.7	110°38'	3°2/25.1	18
11 17	6 45.31	+20 25.2	2.214	2.988	13.7	21.3	11 17	6 48.60	+32 14.7	2.754	3.511	11.7	21.2
11 27	6 40.82	+20 26.6	2.128	2.992	10.8	21.1	11 27	6 43.11	+33 7.7	2.679	3.530	9.3	21.1
12 7	6 34.06	+20 31.3	2.064	2.996	7.4	20.9	12 7	6 35.47	+33 58.0	2.630	3.548	6.7	21.0
12 17	6 25.59	+20 38.1	2.028	3.000	3.6	20.7	12 17	6 26.22	+34 41.6	2.608	3.566	4.2	20.8
12 27	6 16.25	+20 46.1	2.021	3.003	1.0	20.5	12 27	6 16.18	+35 15.3	2.617	3.584	3.3	20.8
1 6	6 7.09	+20 54.4	2.044	3.007	4.6	20.7	1 6	6 6.32	+35 37.3	2.656	3.602	5.0	20.9
1 16	5 59.05	+21 2.6	2.095	3.010	8.3	21.0	1 16	5 57.53	+35 48.0	2.726	3.619	7.5	21.1
1 26	5 52.95	+21 11.2	2.173	3.013	11.5	21.2	1 26	5 50.57	+35 49.3	2.822	3.635	9.9	21.3
35749	1999 <i>GF</i> ₃₃		12 25.7	142°62'	0°8/25.8	18	269860	2000 <i>EM</i> ₅		12 25.7	183°49'	3°2/26.0	18
11 17	6 52.32	+19 29.1	1.749	2.523	16.8	19.0	11 17	6 42.53	+12 14.2	2.754	3.506	11.9	21.1
11 27	6 46.90	+19 49.6	1.671	2.535	13.3	18.8	11 27	6 38.15	+12 1.3	2.661	3.506	9.5	21.0
12 7	6 38.50	+20 16.4	1.614	2.546	9.1	18.6	12 7	6 32.01	+11 54.9	2.591	3.506	6.9	20.8
12 17	6 27.78	+20 47.0	1.584	2.556	4.4	18.3	12 17	6 24.56	+11 55.7	2.548	3.506	4.4	20.6
12 27	6 15.91	+21 18.8	1.582	2.565	1.0	18.1	12 27	6 16.44	+12 3.9	2.536	3.505	3.2	20.6
1 6	6 4.29	+21 49.2	1.610	2.574	5.6	18.4	1 6	6 8.42	+12 19.1	2.554	3.504	4.8	20.7
1 16	5 54.25	+22 17.0	1.667	2.581	10.0	18.7	1 16	6 1.20	+12 40.3	2.601	3.503	7.5	20.8
1 26	5 46.83	+22 42.2	1.748	2.589	13.8	19.0	1 26	5 55.43	+13 6.4	2.675	3.501	10.0	21.0
22363	1993 <i>FX</i> ₂₁		12 25.7	170°76'	1°7/25.7	18	178262	2007 <i>WK</i> ₇		12 25.7	99°37'	1°0/25.6	18
11 17	6 46.87	+19 3.4	1.900	2.679	15.5	19.2	11 17	6 51.20	+22 16.0	2.029	2.798	15.0	20.4
11 27	6 42.43	+18 52.7	1.814	2.680	12.3	19.0	11 27	6 45.31	+21 47.5	1.961	2.822	11.7	20.2
12 7	6 35.36	+18 46.2	1.750	2.681	8.5	18.7	12 7	6 36.96	+21 19.3	1.915	2.845	8.0	20.0
12 17	6 26.27	+18 43.4	1.711	2.682	4.3	18.5	12 17	6 26.88	+20 51.2	1.896	2.868	3.9	19.8
12 27	6 16.15	+18 43.7	1.701	2.682	1.8	18.3	12 27	6 16.11	+20 23.2	1.908	2.890	1.2	19.7
1 6	6 6.20	+18 46.8	1.721	2.683	5.4	18.6	1 6	6 5.81	+19 56.3	1.950	2.912	4.9	20.0
1 16	5 57.59	+18 52.2	1.768	2.683	9.5	18.8	1 16	5 57.00	+19 31.9	2.021	2.933	8.7	20.3
1 26	5 51.22	+19 0.3	1.840	2.683	13.1	19.0	1 26	5 50.44	+19 11.3	2.118	2.953	12.0	20.5
209713	2005 <i>EP</i> ₉₅		12 25.7	316°57'	4°0/25.2	17	365584	2010 <i>TP</i>					

EPHEMERIDES

12 25.7

12 25.7

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
427023	2014 <i>SP</i> ₂₁₉		12 25.7	67°85'	5°1/24.6	15	67559	2000 <i>SV</i> ₈₄		12 25.7	168°57'	2°5/25.8	18
11 17	6 54.70	+34 48.6	2.285	3.039	13.9	21.7	11 17	6 51.11	+17 3.2	1.736	2.510	17.0	20.7
11 27	6 48.37	+36 22.2	2.232	3.076	11.2	21.6	11 27	6 45.99	+16 52.6	1.652	2.514	13.5	20.5
12 7	6 39.28	+37 51.2	2.202	3.112	8.3	21.5	12 7	6 37.92	+16 48.4	1.590	2.518	9.5	20.2
12 17	6 28.10	+39 8.6	2.200	3.148	5.8	21.4	12 17	6 27.56	+16 50.4	1.553	2.521	5.1	20.0
12 27	6 15.91	+40 8.9	2.229	3.183	5.2	21.4	12 27	6 16.03	+16 57.9	1.544	2.523	2.6	19.8
1 6	6 4.03	+40 49.5	2.288	3.218	6.8	21.5	1 6	6 4.71	+17 9.9	1.564	2.525	6.1	20.1
1 16	5 53.66	+41 11.2	2.376	3.253	9.2	21.8	1 16	5 54.90	+17 25.7	1.613	2.526	10.4	20.3
1 26	5 45.73	+41 17.5	2.489	3.287	11.6	22.0	1 26	5 47.64	+17 44.7	1.686	2.526	14.3	20.6
214558	2006 <i>QB</i> ₁		12 25.7	293°37'	2°8/25.8	17	97730	2000 <i>GA</i> ₁₆₉		12 25.7	254°45'	9°5/27.6	18
11 17	6 49.91	+31 40.8	1.773	2.556	16.3	20.7	11 17	6 41.77	- 9 15.5	2.656	3.323	14.1	19.7
11 27	6 45.60	+31 34.1	1.667	2.534	13.2	20.4	11 27	6 37.68	- 9 56.0	2.565	3.313	12.7	19.6
12 7	6 38.00	+31 20.8	1.583	2.513	9.3	20.1	12 7	6 31.79	-10 19.3	2.492	3.303	11.2	19.5
12 17	6 27.72	+30 57.0	1.524	2.492	5.2	19.8	12 17	6 24.51	-10 21.2	2.442	3.293	10.0	19.4
12 27	6 15.94	+30 20.1	1.492	2.471	2.9	19.6	12 27	6 16.51	- 9 59.1	2.417	3.283	9.5	19.3
1 6	6 4.23	+29 30.4	1.489	2.450	6.3	19.8	1 6	6 8.53	- 9 13.0	2.418	3.273	9.9	19.3
1 16	5 54.12	+28 31.3	1.514	2.429	10.8	20.0	1 16	6 1.35	- 8 5.0	2.444	3.263	11.1	19.4
1 26	5 46.82	+27 28.2	1.562	2.408	14.9	20.2	1 26	5 55.61	- 6 39.4	2.495	3.252	12.7	19.5
322713	2000 <i>KD</i> ₄₁		12 25.7	91°11'	1°3/25.9	18	45455	2000 <i>AB</i> ₁₉₅		12 25.7	317°09'	3°7/25.7	18
11 17	6 44.86	+17 19.2	3.529	4.273	9.6	23.1	11 17	6 42.95	+13 55.5	2.192	2.962	14.0	18.7
11 27	6 39.31	+17 18.5	3.465	4.312	7.5	23.0	11 27	6 38.98	+13 19.7	2.102	2.958	11.3	18.5
12 7	6 32.42	+17 20.7	3.428	4.349	5.2	22.9	12 7	6 32.84	+12 49.4	2.033	2.954	8.2	18.3
12 17	6 24.63	+17 25.4	3.419	4.386	2.7	22.8	12 17	6 25.05	+12 26.3	1.991	2.951	5.1	18.1
12 27	6 16.49	+17 32.2	3.443	4.422	1.3	22.7	12 27	6 16.43	+12 11.4	1.977	2.948	3.7	18.0
1 6	6 8.58	+17 40.7	3.499	4.458	3.2	22.9	1 6	6 7.93	+12 5.3	1.992	2.944	5.8	18.1
1 16	6 1.45	+17 50.4	3.587	4.492	5.5	23.1	1 16	6 0.47	+12 7.9	2.036	2.941	9.0	18.3
1 26	5 55.55	+18 1.3	3.704	4.526	7.6	23.3	1 26	5 54.83	+12 18.3	2.104	2.938	12.1	18.5
411510	2011 <i>BR</i> ₁₈		12 25.7	63°26'	2°5/25.5	17	251394	2007 <i>WA</i> ₃₉		12 25.7	97°89'	2°1/25.6	18
11 17	6 47.40	+29 34.5	2.057	2.835	14.5	21.3	11 17	6 55.83	+27 30.1	1.471	2.258	18.9	20.7
11 27	6 42.71	+29 57.3	1.986	2.851	11.4	21.2	11 27	6 50.15	+27 49.2	1.410	2.280	14.9	20.5
12 7	6 35.44	+30 17.5	1.938	2.868	7.9	21.0	12 7	6 40.89	+28 6.9	1.368	2.301	10.2	20.2
12 17	6 26.26	+30 31.8	1.916	2.884	4.3	20.8	12 17	6 28.94	+28 18.6	1.351	2.322	5.2	20.0
12 27	6 16.22	+30 37.5	1.923	2.901	2.5	20.7	12 27	6 15.85	+28 20.6	1.362	2.343	2.2	19.9
1 6	6 6.53	+30 33.8	1.959	2.917	5.3	20.9	1 6	6 3.41	+28 12.2	1.401	2.363	6.4	20.2
1 16	5 58.26	+30 21.8	2.023	2.934	8.8	21.2	1 16	5 53.16	+27 55.5	1.467	2.382	11.0	20.5
1 26	5 52.27	+30 4.3	2.113	2.951	11.9	21.4	1 26	5 46.17	+27 34.5	1.556	2.401	15.0	20.8
190872	2001 <i>TL</i> ₈₂		12 25.7	164°37'	1°9/25.6	18	486313	2013 <i>CZ</i> ₁₀₉		12 25.7	122°03'	0°5/25.7	18
11 17	6 51.98	+28 15.5	1.872	2.648	15.8	20.6	11 17	6 47.45	+20 25.4	1.973	2.750	15.1	21.5
11 27	6 46.66	+28 23.8	1.788	2.653	12.5	20.4	11 27	6 42.82	+20 45.6	1.892	2.758	11.9	21.3
12 7	6 38.35	+28 29.7	1.726	2.656	8.7	20.2	12 7	6 35.62	+21 10.6	1.833	2.765	8.1	21.1
12 17	6 27.73	+28 30.0	1.689	2.659	4.4	20.0	12 17	6 26.42	+21 38.5	1.800	2.772	3.9	20.9
12 27	6 15.99	+28 22.0	1.681	2.662	2.0	19.8	12 27	6 16.23	+22 6.9	1.796	2.779	0.7	20.6
1 6	6 4.53	+28 5.4	1.703	2.664	5.6	20.0	1 6	6 6.21	+22 33.9	1.821	2.785	5.0	20.9
1 16	5 54.67	+27 41.8	1.753	2.666	9.7	20.3	1 16	5 57.49	+22 58.3	1.876	2.791	9.0	21.2
1 26	5 47.43	+27 14.6	1.829	2.667	13.4	20.5	1 26	5 51.00	+23 20.2	1.955	2.797	12.5	21.4
248180	2005 <i>AW</i> ₈		12 25.7	247°96'	1°7/25.9	18	373858	2003 <i>QV</i> ₃₅		12 25.7	102°94'	3°5/25.6	18
11 17	6 47.57	+16 32.6	2.161	2.926	14.3	21.3	11 17	6 57.60	+31 20.0	1.569	2.347	18.3	21.6
11 27	6 42.93	+16 52.5	2.052	2.909	11.5	21.1	11 27	6 51.44	+31 44.2	1.507	2.370	14.5	21.4
12 7	6 35.78	+17 20.3	1.965	2.892	8.0	20.8	12 7	6 41.70	+32 3.4	1.465	2.393	10.2	21.2
12 17	6 26.58	+17 55.1	1.905	2.874	4.2	20.6	12 17	6 29.30	+32 12.3	1.449	2.415	5.7	21.0
12 27	6 16.15	+18 35.1	1.874	2.855	1.7	20.4	12 27	6 15.81	+32 6.6	1.460	2.436	3.6	20.9
1 6	6 5.59	+19 18.0	1.875	2.836	5.1	20.6	1 6	6 3.00	+31 46.2	1.500	2.457	6.7	21.1
1 16	5 56.01	+20 1.8	1.904	2.817	9.1	20.8	1 16	5 52.42	+31 14.4	1.567	2.477	10.9	21.4
1 26	5 48.42	+20 45.0	1.960	2.796	12.7	20.9	1 26	5 45.11	+30 36.6	1.658	2.496	14.6	21.7
132525	2002 <i>JV</i> ₅₇		12 25.7	241°98'	1°5/25.5	18	190228	2006 <i>EB</i> ₁₀		12 25.7	55°23'	7°7/26.9	18
11 17	6 48.32	+25 43.7	1.849	2.633	15.7	20.6	11 17	6 42.08	+ 0 48.1	2.170	2.901	15.2	20.6
11 27	6 43.97	+26 8.4	1.758	2.627	12.5	20.4	11 27	6 38.17	+ 0 6.3	2.095	2.909	13.0	20.5
12 7	6 36.68	+26 34.5	1.688	2.621	8.6	20.1	12 7	6 32.22	- 0 20.7	2.040	2.917	10.6	20.3
12 17	6 27.03	+26 58.6	1.643	2.615	4.3	19.8	12 17	6 24.73	- 0 29.4	2.009	2.924	8.6	20.2
12 27	6 16.09	+27 17.5	1.627	2.609	1.6	19.6	12 27	6 16.50	- 0 17.8	2.005	2.932	7.7	20.2
1 6	6 5.22	+27 29.1	1.640	2.603	5.6	19.9	1 6	6 8.45	+ 0 13.6	2.028	2.941	8.6	20.3
1 16	5 55.77	+27 33.3	1.681	2.596	9.9	20.1	1 16	6 1.44	+ 1 2.4	2.077	2.949	10.6	20.4
1 26	5 48.81	+27 32.1	1.746	2.589	13.7	20.4	1 26	5 56.17	+ 2 4.5	2.151	2.957	12.9	20.6
326568	2002 <i>PE</i> ₁₉₆		12 25.7	148°92'	1°3/25.9	18	199606	2006 <i>FL</i> ₃₄		12 25.7	207°39'	4°2/25.1	18
11 17	6 43.98	+17 30.9	2.677	3.438	11.9	21.1	11 17	6 47.76	+35 48.9	2.645	3.402	12.2	20.5
11 27	6 39.38	+17 46.0	2.588	3.444	9.4	21.0	11 27	6 42.83	+36 35.3	2.552	3.399	9.9	20.3
12 7	6 32.90	+18 5.9	2.522	3.449	6.5	20.8	12 7	6 35.53	+37 17.3	2.483	3.396	7.3	20.2
12 17	6 25.02	+18 30.0	2.485	3.454	3.3	20.6	12 17	6 26.38	+37 50.7	2.441	3.392	5.1	20.0
12 27	6 16.43	+18 56.8	2.478	3.459	1.3	20.4	12 27	6 16.24	+38 11.8	2.429	3.388	4.3	20.0
1 6	6 7.93	+19 25.2	2.502	3.464	4.0	20.7	1 6	6 6.16	+38 18.9	2.446	3.384	5.9	20.1
1 16	6 0.32	+19 53.9	2.557	3.468	7.1	20.9	1 16	5 57.18	+38 12.6	2.492	3.380	8.4	20.2
1 26	5 54.26	+20 22.4	2.638	3.472	9.9	21.1	1 26	5 50.17	+37 55.6	2.564	3.376	10.9	20.4
484098	2006 <i>RL</i> ₅₉		12 25.7	42°67'	6°6/26.2	17	373007	2011 <i>DL</i> ₂		12 25.7	301°74'		

EPHEMERIDES

12 25.7

12 25.7

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
271318	2003 <i>WR</i> ₆	12 25.7 352°83		7°9/23.8 17			19547	Collier	12 25.7 156°09		0°8/25.7 18		
11 17	6 50.23	+41 22.8	2.065	2.825	15.1	20.0	11 17	6 51.03	+20 56.4	1.594	2.379	17.7	19.4
11 27	6 46.01	+43 3.2	1.985	2.822	12.7	19.8	11 27	6 46.30	+21 0.3	1.514	2.384	14.1	19.2
12 7	6 38.43	+44 37.5	1.927	2.820	10.2	19.6	12 7	6 38.35	+21 8.7	1.454	2.388	9.6	18.9
12 17	6 28.03	+45 57.2	1.894	2.819	8.4	19.5	12 17	6 27.88	+21 19.6	1.419	2.392	4.7	18.7
12 27	6 15.98	+46 54.7	1.889	2.817	8.0	19.5	12 27	6 16.11	+21 31.0	1.412	2.395	1.0	18.4
1 6	6 3.85	+47 25.9	1.910	2.816	9.4	19.6	1 6	6 4.59	+21 41.5	1.434	2.398	5.9	18.7
1 16	5 53.29	+47 31.6	1.957	2.816	11.7	19.7	1 16	5 54.75	+21 50.8	1.482	2.400	10.7	19.0
1 26	5 45.61	+47 16.5	2.027	2.816	14.2	19.9	1 26	5 47.73	+21 59.6	1.555	2.402	14.9	19.3
51752	2001 <i>KW</i> ₆₈	12 25.7 218°88		2°7/25.8 18			386678	2009 <i>VA</i> ₅₁	12 25.7 41°10		1°0/25.7 16		
11 17	6 46.35	+16 32.8	2.121	2.890	14.4	20.0	11 17	6 47.86	+20 56.9	1.224	2.036	20.6	21.2
11 27	6 41.80	+16 10.7	2.026	2.884	11.5	19.7	11 27	6 44.40	+20 54.2	1.165	2.050	16.2	21.0
12 7	6 34.86	+15 53.2	1.953	2.879	8.1	19.5	12 7	6 37.27	+20 56.6	1.125	2.066	11.1	20.7
12 17	6 26.08	+15 40.9	1.906	2.872	4.6	19.3	12 17	6 27.36	+21 2.6	1.108	2.082	5.4	20.5
12 27	6 16.33	+15 34.1	1.888	2.866	2.7	19.2	12 27	6 16.21	+21 10.2	1.116	2.098	1.3	20.2
1 6	6 6.66	+15 32.8	1.901	2.859	5.4	19.3	1 6	6 5.61	+21 18.1	1.149	2.116	6.7	20.6
1 16	5 58.12	+15 36.9	1.941	2.851	9.1	19.5	1 16	5 57.18	+21 26.0	1.208	2.134	11.9	21.0
1 26	5 51.57	+15 46.1	2.008	2.844	12.5	19.7	1 26	5 51.99	+21 34.6	1.288	2.152	16.3	21.3
272054	2005 <i>EQ</i> ₁₆₁	12 25.7 236°42		0°4/25.6 18			413778	2006 <i>HZ</i> ₆	12 25.7 232°84		2°5/25.0 17		
11 17	6 43.79	+24 0.7	2.719	3.487	11.6	21.8	11 17	6 47.24	+28 56.1	2.749	3.510	11.7	20.8
11 27	6 39.38	+24 12.0	2.618	3.479	9.1	21.6	11 27	6 42.31	+29 52.1	2.645	3.500	9.3	20.6
12 7	6 33.01	+24 24.2	2.540	3.471	6.2	21.4	12 7	6 35.18	+30 48.9	2.565	3.489	6.5	20.5
12 17	6 25.14	+24 35.9	2.491	3.463	3.0	21.2	12 17	6 26.28	+31 42.7	2.514	3.479	3.8	20.3
12 27	6 16.47	+24 45.7	2.472	3.455	0.6	21.0	12 27	6 16.35	+32 29.9	2.493	3.467	2.6	20.2
1 6	6 7.85	+24 52.5	2.483	3.446	3.9	21.2	1 6	6 6.32	+33 7.8	2.504	3.456	4.8	20.3
1 16	6 0.10	+24 56.5	2.525	3.437	7.2	21.4	1 16	5 57.16	+33 35.5	2.545	3.444	7.7	20.5
1 26	5 53.94	+24 58.1	2.593	3.428	10.0	21.6	1 26	5 49.71	+33 53.8	2.613	3.432	10.5	20.6
324309	2006 <i>DV</i> ₁₈₁	12 25.7 105°03		6°4/25.3 17			435596	2008 <i>SJ</i> ₁₄	12 25.7 148°66		1°4/25.8 18		
11 17	6 52.76	+44 0.8	2.633	3.366	12.8	20.9	11 17	6 50.41	+19 0.2	2.086	2.851	14.8	22.6
11 27	6 46.86	+44 55.9	2.565	3.383	10.7	20.8	11 27	6 44.90	+18 58.4	2.004	2.863	11.7	22.4
12 7	6 38.27	+45 41.2	2.518	3.400	8.6	20.7	12 7	6 36.90	+19 0.8	1.945	2.873	8.0	22.2
12 17	6 27.65	+46 11.3	2.498	3.416	7.0	20.6	12 17	6 27.03	+19 6.5	1.913	2.883	4.0	22.0
12 27	6 16.10	+46 22.3	2.506	3.432	6.5	20.6	12 27	6 16.27	+19 14.4	1.910	2.892	1.5	21.8
1 6	6 4.86	+46 13.1	2.543	3.448	7.4	20.7	1 6	6 5.73	+19 23.6	1.938	2.900	5.0	22.1
1 16	5 55.10	+45 45.9	2.606	3.464	9.2	20.8	1 16	5 56.50	+19 33.7	1.995	2.907	8.8	22.3
1 26	5 47.72	+45 5.1	2.695	3.479	11.2	21.0	1 26	5 49.42	+19 44.9	2.079	2.913	12.2	22.5
98045	2000 <i>RQ</i> ₂₇	12 25.7 197°40		2°3/25.8 18			293921	2007 <i>SL</i> ₁₆	12 25.7 73°99		1°5/25.8 18		
11 17	6 51.11	+18 22.9	1.725	2.501	16.9	20.4	11 17	6 47.65	+20 2.9	1.698	2.485	16.8	21.3
11 27	6 46.12	+18 3.5	1.635	2.499	13.5	20.1	11 27	6 43.29	+19 50.0	1.624	2.495	13.2	21.1
12 7	6 38.12	+17 48.5	1.567	2.496	9.5	19.9	12 7	6 36.07	+19 40.8	1.571	2.505	9.1	20.9
12 17	6 27.73	+17 37.9	1.523	2.493	5.0	19.6	12 17	6 26.70	+19 34.7	1.543	2.514	4.5	20.6
12 27	6 16.08	+17 31.5	1.508	2.488	2.4	19.4	12 27	6 16.32	+19 31.2	1.543	2.524	1.6	20.5
1 6	6 4.57	+17 29.0	1.522	2.483	6.1	19.7	1 6	6 6.26	+19 29.8	1.571	2.534	5.6	20.8
1 16	5 54.56	+17 30.7	1.564	2.477	10.6	19.9	1 16	5 57.75	+19 30.5	1.626	2.544	10.0	21.0
1 26	5 47.14	+17 36.7	1.630	2.471	14.6	20.1	1 26	5 51.75	+19 33.8	1.706	2.554	13.8	21.3
41330	1999 <i>XU</i> ₂₂₅	12 25.7 287°79		1°0/25.7 18			274453	2008 <i>SX</i> ₅₅	12 25.7 17°70		4°3/25.9 17		
11 17	6 48.65	+25 45.0	1.524	2.321	17.9	18.8	11 17	6 42.23	+11 42.4	2.198	2.963	14.1	21.2
11 27	6 45.08	+25 47.7	1.423	2.300	14.4	18.5	11 27	6 38.38	+11 8.8	2.113	2.965	11.4	21.0
12 7	6 38.00	+25 50.4	1.343	2.280	10.0	18.2	12 7	6 32.43	+10 42.6	2.050	2.967	8.4	20.8
12 17	6 27.91	+25 50.0	1.286	2.259	4.9	17.8	12 17	6 24.90	+10 25.6	2.014	2.969	5.5	20.6
12 27	6 16.05	+25 43.9	1.256	2.239	1.3	17.5	12 27	6 16.60	+10 18.9	2.005	2.971	4.3	20.6
1 6	6 4.09	+25 30.7	1.253	2.218	6.5	17.8	1 6	6 8.44	+10 22.8	2.025	2.974	6.1	20.7
1 16	5 53.75	+25 11.8	1.277	2.198	11.8	18.1	1 16	6 1.31	+10 36.3	2.073	2.976	9.0	20.9
1 26	5 46.45	+24 50.3	1.323	2.178	16.6	18.3	1 26	5 55.96	+10 58.1	2.147	2.979	11.9	21.1
49606	1999 <i>FU</i> ₂₇	12 25.7 61°35		10°9/24.3 17			264146	2009 <i>UU</i> ₉₈	12 25.7 309°29		0°4/25.6 18		
11 17	7 0.26	+56 54.3	2.468	3.151	14.7	18.0	11 17	6 43.84	+23 15.8	1.992	2.779	14.6	20.4
11 27	6 54.50	+58 29.1	2.403	3.156	13.3	17.9	11 27	6 40.34	+23 31.8	1.887	2.759	11.6	20.2
12 7	6 44.52	+59 48.5	2.358	3.161	12.0	17.8	12 7	6 34.22	+23 50.7	1.804	2.739	8.0	19.9
12 17	6 31.01	+60 43.8	2.336	3.166	11.1	17.7	12 17	6 25.95	+24 10.6	1.747	2.720	3.9	19.6
12 27	6 15.58	+61 8.2	2.337	3.172	11.0	17.7	12 27	6 16.43	+24 29.0	1.718	2.701	0.7	19.4
1 6	6 0.40	+60 59.4	2.362	3.177	11.5	17.8	1 6	6 6.83	+24 44.4	1.718	2.682	5.1	19.6
1 16	5 47.53	+60 20.7	2.410	3.183	12.6	17.9	1 16	5 58.36	+24 56.0	1.746	2.664	9.4	19.9
1 26	5 38.47	+59 19.0	2.478	3.188	13.9	18.0	1 26	5 52.05	+25 4.6	1.798	2.646	13.2	20.1
110843	2001 <i>UK</i> ₇₃	12 25.7 57°17		2°3/25.9 18			404388	2013 <i>GE</i> ₄₄	12 25.7 179°49		0°5/25.7 18		
11 17	6 45.40	+17 13.9	1.831	2.614	15.9	20.1	11 17	6 46.24	+20 59.8	2.138	2.913	14.1	22.0
11 27	6 41.28	+17 4.7	1.756	2.623	12.6	19.9	11 27	6 41.77	+21 11.4	2.048	2.913	11.2	21.8
12 7	6 34.59	+17 1.5	1.703	2.633	8.8	19.7	12 7	6 34.89	+21 26.6	1.982	2.914	7.6	21.6
12 17	6 25.96	+17 4.3	1.674	2.643	4.7	19.4	12 17	6 26.14	+21 43.9	1.942	2.914	3.7	21.3
12 27	6 16.40	+17 12.4	1.674	2.654	2.3	19.3	12 27	6 16.42	+22 1.6	1.931	2.914	0.7	21.1
1 6	6 7.11	+17 25.0	1.702	2.664	5.5	19.5	1 6	6 6.82	+22 18.2	1.950	2.913	4.7	21.4
1 16	5 59.18	+17 41.3	1.758	2.675	9.5	19.8	1 16	5 58.38	+22 33.3	1.998	2.913	8.6	21.6
1 26	5 53.49	+18 0.4	1.839	2.685	13.0	20.0	1 26	5 51.97	+22 47.0	2.071	2.912	12.0	21.8
199357	2006 <i>BY</i> ₁₈₂	12 25.7 136°15		3°3/26.2 18			246085	2006 <i>XM</i> ₅₁	12 25.7 127°95		0°3/25.7 18		
11 17	6 43.39	+10 33.6	2.964										

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
372105	2008 <i>SK</i> ₁₂₈		12 25.7 334°21	6°6/25.4	18		284041	2005 <i>AD</i> ₂₅		12 25.7 39°15	2°7/25.7	18	
11 17	6 41.80	+ 7 42.6	2.094	2.853	14.9	20.6	11 17	6 46.98	+19 1.0	1.359	2.162	19.4	19.4
11 27	6 38.20	+ 6 32.6	2.005	2.846	12.4	20.4	11 27	6 43.25	+18 25.9	1.299	2.178	15.3	19.2
12 7	6 32.41	+ 5 30.8	1.937	2.839	9.7	20.2	12 7	6 36.26	+17 55.5	1.259	2.195	10.6	19.0
12 17	6 24.95	+ 4 41.0	1.894	2.832	7.4	20.1	12 17	6 26.85	+17 30.6	1.242	2.212	5.6	18.7
12 27	6 16.62	+ 4 6.6	1.879	2.826	6.6	20.0	12 27	6 16.42	+17 12.0	1.250	2.230	2.8	18.6
1 6	6 8.40	+ 3 49.2	1.891	2.820	8.0	20.1	1 6	6 6.53	+17 0.1	1.286	2.249	6.7	18.9
1 16	6 1.20	+ 3 48.9	1.929	2.814	10.6	20.2	1 16	5 58.55	+16 55.2	1.347	2.268	11.3	19.2
1 26	5 55.83	+ 4 3.6	1.992	2.809	13.3	20.4	1 26	5 53.46	+16 57.0	1.430	2.288	15.4	19.5
250498	2004 <i>FN</i> ₁₁₂		12 25.7 329°55	2°0/25.8	18		129324	Johnweirich		12 25.7 141°16	1°1/25.6	18	
11 17	6 45.28	+18 31.9	1.842	2.626	15.7	20.9	11 17	6 52.36	+25 5.0	1.945	2.717	15.5	21.2
11 27	6 41.36	+18 18.0	1.755	2.624	12.5	20.7	11 27	6 46.78	+25 25.9	1.867	2.729	12.2	21.0
12 7	6 34.79	+18 8.8	1.689	2.621	8.7	20.4	12 7	6 38.39	+25 47.8	1.810	2.741	8.3	20.8
12 17	6 26.15	+18 4.0	1.649	2.619	4.5	20.2	12 17	6 27.85	+26 7.5	1.780	2.752	4.1	20.5
12 27	6 16.44	+18 3.4	1.636	2.617	2.1	20.0	12 27	6 16.27	+26 22.1	1.779	2.762	1.2	20.3
1 6	6 6.88	+18 6.5	1.653	2.615	5.6	20.2	1 6	6 4.97	+26 30.2	1.809	2.771	5.2	20.6
1 16	5 58.63	+18 13.1	1.696	2.613	9.7	20.5	1 16	5 55.17	+26 32.2	1.867	2.780	9.3	20.9
1 26	5 52.65	+18 23.0	1.764	2.612	13.4	20.7	1 26	5 47.83	+26 29.8	1.951	2.788	12.8	21.1
523467	2017 <i>FX</i> ₁₁₇		12 25.7 228°38	2°4/25.8	18		294696	2008 <i>BS</i>		12 25.7 167°35	1°0/25.5	18	
11 17	6 44.31	+16 1.9	2.577	3.338	12.4	22.8	11 17	6 48.68	+23 19.4	2.252	3.021	13.7	21.3
11 27	6 39.80	+15 44.3	2.475	3.328	9.9	22.6	11 27	6 43.67	+24 3.9	2.163	3.024	10.8	21.1
12 7	6 33.33	+15 30.9	2.396	3.319	7.0	22.4	12 7	6 36.22	+24 52.1	2.096	3.027	7.4	20.8
12 17	6 25.35	+15 22.1	2.344	3.309	4.0	22.2	12 17	6 26.84	+25 40.8	2.058	3.029	3.6	20.6
12 27	6 16.57	+15 18.2	2.322	3.299	2.4	22.1	12 27	6 16.42	+26 26.6	2.049	3.031	1.1	20.4
1 6	6 7.83	+15 19.1	2.331	3.288	4.7	22.2	1 6	6 6.06	+27 6.5	2.072	3.033	4.7	20.7
1 16	5 59.96	+15 24.6	2.369	3.277	7.8	22.4	1 16	5 56.82	+27 39.5	2.124	3.034	8.4	20.9
1 26	5 53.69	+15 34.3	2.434	3.265	10.7	22.6	1 26	5 49.61	+28 5.8	2.202	3.035	11.6	21.1
464447	2016 <i>BK</i> ₃₆		12 25.7 273°01	1°9/26.0	16		363958	2005 <i>UP</i> ₄₈		12 25.7 64°64	1°9/25.7	18	
11 17	6 43.68	+15 47.6	2.611	3.371	12.2	21.6	11 17	6 45.91	+19 36.2	1.987	2.766	14.9	20.9
11 27	6 39.46	+15 57.4	2.494	3.349	9.8	21.3	11 27	6 41.51	+19 8.5	1.907	2.773	11.8	20.7
12 7	6 33.22	+16 13.6	2.401	3.326	6.9	21.1	12 7	6 34.69	+18 43.2	1.850	2.781	8.2	20.5
12 17	6 25.36	+16 35.8	2.335	3.302	3.8	20.9	12 17	6 26.05	+18 20.8	1.818	2.788	4.2	20.3
12 27	6 16.56	+17 3.2	2.300	3.279	1.9	20.7	12 27	6 16.56	+18 1.4	1.815	2.796	1.9	20.2
1 6	6 7.64	+17 34.4	2.295	3.255	4.5	20.9	1 6	6 7.34	+17 45.6	1.842	2.803	5.2	20.4
1 16	5 59.48	+18 8.3	2.320	3.231	7.8	21.0	1 16	5 59.42	+17 34.1	1.896	2.811	9.0	20.6
1 26	5 52.86	+18 43.6	2.372	3.206	10.9	21.2	1 26	5 53.61	+17 27.1	1.976	2.819	12.4	20.9
144998	2005 <i>EY</i> ₁₉₈		12 25.7 169°65	4°0/25.9	18		376687	2013 <i>QF</i> ₅₈		12 25.7 134°25	3°2/26.2	17	
11 17	6 50.01	+14 1.8	1.794	2.563	16.7	21.2	11 17	6 42.98	+12 13.3	2.510	3.267	12.8	21.5
11 27	6 45.00	+13 30.6	1.710	2.566	13.5	21.0	11 27	6 38.73	+12 9.7	2.423	3.271	10.3	21.4
12 7	6 37.22	+13 6.5	1.648	2.570	9.7	20.8	12 7	6 32.59	+12 13.9	2.358	3.275	7.4	21.2
12 17	6 27.30	+12 51.1	1.611	2.572	5.9	20.6	12 17	6 25.01	+12 26.3	2.320	3.279	4.6	21.0
12 27	6 16.30	+12 45.3	1.602	2.574	4.1	20.4	12 27	6 16.72	+12 46.5	2.311	3.282	3.2	20.9
1 6	6 5.50	+12 49.0	1.621	2.576	6.7	20.6	1 6	6 8.53	+13 13.7	2.332	3.286	5.0	21.0
1 16	5 56.12	+13 1.6	1.669	2.576	10.5	20.8	1 16	6 1.24	+13 46.5	2.383	3.289	7.8	21.2
1 26	5 49.13	+13 21.8	1.741	2.576	14.1	21.1	1 26	5 55.53	+14 23.1	2.460	3.292	10.6	21.4
392166	2009 <i>JS</i> ₄		12 25.7 164°03	17°6/26.2	17		158019	2000 <i>QJ</i> ₂₂₄		12 25.7 70°61	0°1/25.7	18	
11 17	6 51.67	- 9 41.4	1.336	2.046	24.0	21.8	11 17	6 52.69	+23 31.0	1.555	2.342	18.1	20.6
11 27	6 47.10	-12 7.3	1.278	2.051	21.8	21.6	11 27	6 47.27	+23 33.3	1.501	2.372	14.1	20.5
12 7	6 39.08	-14 6.8	1.235	2.056	19.7	21.5	12 7	6 38.73	+23 37.1	1.466	2.401	9.5	20.3
12 17	6 28.31	-15 27.4	1.210	2.059	18.1	21.4	12 17	6 27.95	+23 40.1	1.457	2.430	4.5	20.0
12 27	6 16.14	-15 59.6	1.205	2.062	17.6	21.4	12 27	6 16.31	+23 40.1	1.476	2.459	0.7	19.8
1 6	6 4.23	-15 40.5	1.220	2.064	18.3	21.5	1 6	6 5.31	+23 36.8	1.523	2.488	5.6	20.2
1 16	5 54.14	-14 34.8	1.255	2.065	19.9	21.6	1 16	5 56.27	+23 31.1	1.598	2.516	10.1	20.6
1 26	5 47.08	-12 52.6	1.306	2.066	22.0	21.7	1 26	5 50.07	+23 24.7	1.697	2.544	13.9	20.9
10869	1996 <i>SJ</i> ₄		12 25.7 110°92	3°1/25.6	18		149960	2005 <i>TV</i> ₇₇		12 25.7 171°16	0°7/25.8	18	
11 17	6 56.22	+30 12.7	1.627	2.405	17.7	18.5	11 17	6 45.85	+21 15.7	2.143	2.919	14.1	20.9
11 27	6 50.34	+30 38.3	1.561	2.425	14.1	18.3	11 27	6 41.44	+21 14.0	2.054	2.919	11.1	20.7
12 7	6 41.01	+31 0.3	1.515	2.444	9.8	18.1	12 7	6 34.67	+21 14.8	1.988	2.920	7.6	20.5
12 17	6 29.10	+31 13.6	1.495	2.462	5.4	17.9	12 17	6 26.07	+21 17.2	1.949	2.921	3.7	20.2
12 27	6 16.05	+31 14.3	1.502	2.480	3.2	17.8	12 27	6 16.56	+21 19.9	1.938	2.921	0.9	20.0
1 6	6 3.56	+31 1.5	1.539	2.497	6.5	18.0	1 6	6 7.20	+21 22.5	1.958	2.921	4.7	20.3
1 16	5 53.12	+30 37.9	1.603	2.513	10.6	18.3	1 16	5 59.00	+21 24.9	2.006	2.922	8.5	20.5
1 26	5 45.79	+30 8.0	1.691	2.529	14.3	18.6	1 26	5 52.81	+21 27.6	2.080	2.922	11.9	20.7
191201	2002 <i>PN</i> ₇₁		12 25.7 119°64	6°4/26.6	18		416362	2003 <i>SM</i> ₃₈₂		12 25.7 335°00	4°8/25.2	18	
11 17	6 42.37	+ 2 44.0	2.490	3.218	13.6	20.1	11 17	6 47.69	+35 31.0	2.143	2.914	14.2	21.4
11 27	6 38.18	+ 2 9.6	2.409	3.225	11.4	20.0	11 27	6 43.38	+36 17.1	2.056	2.911	11.6	21.2
12 7	6 32.14	+ 1 47.3	2.350	3.231	9.1	19.8	12 7	6 36.27	+36 58.4	1.992	2.909	8.6	21.0
12 17	6 24.75	+ 1 39.7	2.316	3.238	7.2	19.7	12 17	6 26.93	+37 29.6	1.952	2.906	5.8	20.8
12 27	6 16.70	+ 1 48.3	2.309	3.244	6.4	19.7	12 27	6 16.42	+37 46.4	1.941	2.904	4.9	20.8
1 6	6 8.79	+ 2 12.7	2.331	3.250	7.3	19.7	1 6	6 6.04	+37 47.0	1.959	2.902	6.7	20.9
1 16	6 1.77	+ 2 51.1	2.381	3.256	9.3	19.9	1 16	5 57.04	+37 32.3	2.004	2.900	9.7	21.1
1 26	5 56.30	+ 3 40.6	2.456	3.262	11.5	20.0	1 26	5 50.44	+37 6.0	2.073	2.898	12.6	21.2
227404	2005 <i>UE</i> ₄₃₃		12 25.7 333°46	0°5/25.7	18		484874	2009 <i>PW</i>		12 25.7 127°02	3°8/25.7	17	

EPHEMERIDES

12 25.7

12 25.7

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
384337	2009 <i>TF</i> ₁		12 25.7	86°58'	2°2/25.5	18	278418	2007 <i>RA</i> ₁₅₅		12 25.7	230°39'	1°9/25.9	18
11 17	6 52.73	+26 18.8	1.511	2.301	18.4	21.2	11 17	6 43.12	+17 1.3	2.712	3.473	11.8	21.7
11 27	6 47.85	+26 59.4	1.446	2.318	14.5	20.9	11 27	6 38.82	+16 52.3	2.611	3.466	9.4	21.5
12 7	6 39.50	+27 41.3	1.402	2.336	9.9	20.7	12 7	6 32.66	+16 47.4	2.533	3.458	6.6	21.3
12 17	6 28.49	+28 19.4	1.382	2.353	5.1	20.5	12 17	6 25.09	+16 46.5	2.483	3.450	3.6	21.1
12 27	6 16.23	+28 48.7	1.389	2.370	2.4	20.4	12 27	6 16.77	+16 49.4	2.463	3.442	1.9	21.0
1 6	6 4.41	+29 6.8	1.425	2.387	6.4	20.6	1 6	6 8.51	+16 55.7	2.474	3.434	4.2	21.1
1 16	5 54.58	+29 14.0	1.488	2.403	10.9	20.9	1 16	6 1.06	+17 5.1	2.515	3.425	7.3	21.3
1 26	5 47.83	+29 13.4	1.574	2.419	14.8	21.2	1 26	5 55.11	+17 17.3	2.582	3.416	10.1	21.5
44504	1998 <i>XX</i> ₃₄		12 25.7	3°14'	1°8/25.6	18	297029	2010 <i>GW</i> ₉₆		12 25.7	128°65'	6°5/26.9	18
11 17	6 45.76	+23 5.7	1.434	2.239	18.4	17.4	11 17	6 46.47	+ 4 31.5	2.026	2.767	15.9	21.3
11 27	6 42.44	+22 9.7	1.357	2.238	14.6	17.1	11 27	6 41.83	+ 4 9.3	1.948	2.776	13.2	21.1
12 7	6 35.85	+21 11.2	1.299	2.238	10.1	16.9	12 7	6 34.88	+ 4 1.4	1.891	2.786	10.3	21.0
12 17	6 26.77	+20 11.4	1.266	2.239	5.0	16.6	12 17	6 26.18	+ 4 10.2	1.859	2.795	7.7	20.8
12 27	6 16.49	+19 12.4	1.259	2.241	1.9	16.4	12 27	6 16.64	+ 4 36.7	1.854	2.803	6.5	20.8
1 6	6 6.60	+18 17.3	1.279	2.243	6.5	16.7	1 6	6 7.27	+ 5 19.5	1.878	2.812	7.7	20.9
1 16	5 58.50	+17 29.4	1.325	2.247	11.4	17.0	1 16	5 59.08	+ 6 15.8	1.930	2.820	10.3	21.0
1 26	5 53.26	+16 51.3	1.393	2.252	15.6	17.2	1 26	5 52.87	+ 7 21.5	2.006	2.827	13.1	21.2
109846	2001 <i>RY</i> ₁₂₈		12 25.7	169°15'	0°7/25.6	18	43277	2000 <i>EZ</i> ₉₆		12 25.7	203°89'	5°3/25.1	18
11 17	6 44.29	+25 8.1	2.760	3.527	11.5	20.5	11 17	6 49.53	+40 33.6	2.767	3.510	12.0	19.1
11 27	6 39.73	+25 22.3	2.668	3.529	9.0	20.4	11 27	6 44.31	+41 19.7	2.675	3.507	10.0	18.9
12 7	6 33.26	+25 36.9	2.601	3.531	6.1	20.2	12 7	6 36.65	+41 58.8	2.607	3.504	7.8	18.8
12 17	6 25.34	+25 50.0	2.560	3.532	3.0	20.0	12 17	6 27.08	+42 26.3	2.566	3.500	5.9	18.6
12 27	6 16.70	+26 0.2	2.551	3.533	0.9	19.8	12 27	6 16.52	+42 38.4	2.553	3.496	5.4	18.6
1 6	6 8.17	+26 6.6	2.572	3.534	3.9	20.1	1 6	6 6.06	+42 33.7	2.570	3.492	6.5	18.7
1 16	6 0.54	+26 9.3	2.623	3.535	7.0	20.3	1 16	5 56.77	+42 13.4	2.615	3.488	8.6	18.8
1 26	5 54.50	+26 8.9	2.702	3.536	9.7	20.4	1 26	5 49.53	+41 40.9	2.685	3.484	10.8	18.9
50821	2000 <i>FC</i> ₃₄		12 25.7	316°10'	0°7/25.8	17	331693	2002 <i>QR</i> ₁₃₀		12 25.7	49°81'	2°6/26.1	17
11 17	6 44.76	+20 40.7	1.669	2.463	16.7	19.2	11 17	6 43.26	+14 27.6	2.279	3.046	13.6	20.9
11 27	6 41.50	+20 50.5	1.575	2.451	13.3	18.9	11 27	6 39.22	+14 28.4	2.192	3.049	10.9	20.7
12 7	6 35.26	+21 5.6	1.502	2.438	9.2	18.6	12 7	6 33.09	+14 36.5	2.127	3.051	7.7	20.5
12 17	6 26.58	+21 24.5	1.454	2.427	4.5	18.3	12 17	6 25.35	+14 51.9	2.089	3.054	4.4	20.3
12 27	6 16.51	+21 45.1	1.432	2.415	0.9	18.0	12 27	6 16.79	+15 14.0	2.080	3.056	2.6	20.2
1 6	6 6.43	+22 5.5	1.438	2.404	5.7	18.4	1 6	6 8.35	+15 41.5	2.100	3.059	5.0	20.4
1 16	5 57.73	+22 24.7	1.471	2.393	10.5	18.6	1 16	6 0.90	+16 13.1	2.150	3.062	8.2	20.6
1 26	5 51.55	+22 42.7	1.528	2.383	14.7	18.8	1 26	5 55.21	+16 47.4	2.225	3.064	11.3	20.8
408472	2013 <i>HY</i> ₈₀		12 25.7	101°87'	0°2/25.7	18	483555	2003 <i>YP</i> ₁₀		12 25.7	45°09'	6°0/25.7	17
11 17	6 46.91	+23 22.9	2.065	2.843	14.5	22.0	11 17	7 1.12	+34 31.7	1.257	2.046	21.4	20.0
11 27	6 42.35	+23 29.7	1.984	2.851	11.4	21.8	11 27	6 54.60	+35 33.0	1.231	2.096	17.0	19.9
12 7	6 35.30	+23 38.1	1.926	2.858	7.8	21.6	12 7	6 43.92	+36 24.5	1.223	2.147	12.1	19.7
12 17	6 26.39	+23 46.1	1.893	2.866	3.7	21.3	12 17	6 30.41	+36 57.5	1.238	2.197	7.7	19.6
12 27	6 16.56	+23 52.2	1.890	2.873	0.6	21.1	12 27	6 16.12	+37 6.5	1.280	2.247	6.0	19.7
1 6	6 6.96	+23 55.4	1.917	2.881	4.7	21.4	1 6	6 3.19	+36 52.3	1.348	2.297	8.4	19.9
1 16	5 58.64	+23 56.0	1.972	2.888	8.6	21.7	1 16	5 53.24	+36 20.6	1.442	2.347	12.1	20.3
1 26	5 52.45	+23 55.0	2.053	2.895	12.0	21.9	1 26	5 47.13	+35 39.2	1.558	2.396	15.4	20.6
517609	2014 <i>WF</i> ₅₀₄		12 25.7	98°54'	3°9/26.5	18	191518	2003 <i>UA</i> ₁₂₉		12 25.7	92°77'	0°5/25.7	18
11 17	6 44.66	+ 9 15.3	2.588	3.331	12.8	21.3	11 17	6 46.84	+24 26.1	2.473	3.240	12.7	20.9
11 27	6 39.81	+ 9 10.3	2.516	3.353	10.3	21.2	11 27	6 41.76	+24 34.9	2.401	3.262	9.9	20.7
12 7	6 33.17	+ 9 14.3	2.467	3.375	7.6	21.0	12 7	6 34.61	+24 44.0	2.353	3.283	6.7	20.5
12 17	6 25.25	+ 9 28.1	2.446	3.396	5.1	20.9	12 17	6 25.99	+24 51.8	2.332	3.304	3.2	20.4
12 27	6 16.75	+ 9 51.4	2.453	3.417	3.9	20.9	12 27	6 16.72	+24 56.8	2.342	3.325	0.7	20.2
1 6	6 8.47	+10 23.0	2.492	3.438	5.2	21.0	1 6	6 7.72	+24 58.4	2.382	3.345	4.1	20.5
1 16	6 1.13	+11 1.3	2.560	3.458	7.7	21.2	1 16	5 59.86	+24 57.0	2.453	3.365	7.3	20.7
1 26	5 55.35	+11 44.2	2.654	3.478	10.2	21.4	1 26	5 53.81	+24 53.6	2.550	3.385	10.2	20.9
113981	2002 <i>UT</i> ₂₂		12 25.7	79°53'	4°1/25.9	18	413743	2006 <i>BK</i> ₂₅₀		12 25.7	329°43'	4°2/25.6	18
11 17	6 49.41	+15 27.7	1.483	2.270	18.8	20.2	11 17	6 46.76	+33 54.6	1.870	2.653	15.6	20.3
11 27	6 44.92	+14 48.2	1.416	2.284	15.0	20.0	11 27	6 43.04	+34 16.3	1.778	2.642	12.6	20.1
12 7	6 37.33	+14 16.1	1.370	2.298	10.7	19.8	12 7	6 36.26	+34 32.4	1.706	2.632	9.1	19.9
12 17	6 27.41	+13 53.0	1.347	2.312	6.3	19.6	12 17	6 27.05	+34 38.2	1.660	2.622	5.7	19.6
12 27	6 16.44	+13 40.0	1.351	2.326	4.1	19.5	12 27	6 16.54	+34 30.1	1.641	2.612	4.2	19.5
1 6	6 5.91	+13 37.4	1.383	2.340	7.1	19.7	1 6	6 6.18	+34 6.9	1.649	2.603	6.6	19.7
1 16	5 57.15	+13 44.6	1.440	2.354	11.3	20.0	1 16	5 57.35	+33 30.8	1.685	2.595	10.3	19.9
1 26	5 51.14	+14 0.1	1.521	2.368	15.2	20.2	1 26	5 51.14	+32 46.2	1.745	2.587	13.8	20.1
199657	2006 <i>GP</i> ₄₂		12 25.7	155°36'	4°4/26.4	17	50755	2000 <i>EQ</i> ₁₈₁		12 25.7	68°76'	3°7/25.2	18
11 17	6 42.72	+ 9 0.0	2.474	3.223	13.1	20.5	11 17	6 52.46	+27 55.1	1.425	2.221	19.0	18.8
11 27	6 38.56	+ 8 44.0	2.385	3.225	10.7	20.3	11 27	6 48.04	+29 2.8	1.362	2.236	15.1	18.6
12 7	6 32.50	+ 8 37.2	2.320	3.227	8.0	20.1	12 7	6 39.90	+30 12.0	1.319	2.253	10.5	18.3
12 17	6 25.01	+ 8 41.0	2.280	3.229	5.5	20.0	12 17	6 28.83	+31 15.5	1.300	2.269	5.8	18.1
12 27	6 16.79	+ 8 55.8	2.269	3.230	4.4	19.9	12 27	6 16.29	+32 6.2	1.308	2.285	3.8	18.0
1 6	6 8.67	+ 9 20.9	2.288	3.232	5.8	20.0	1 6	6 4.16	+32 39.9	1.344	2.301	7.3	18.3
1 16	6 1.44	+ 9 54.8	2.335	3.233	8.4	20.2	1 16	5 54.11	+32 56.9	1.405	2.318	11.7	18.6
1 26	5 55.80	+10 35.6	2.409	3.235	11.0	20.3	1 26	5 47.39	+33 0.9	1.490	2.334	15.6	18.9
243398	2008 <i>YP</i> ₁₇₂		12 25.7	235°62'	0°3/25.7	18	40098	1998 <i>OW</i> ₁₄		12 25.7	90°77'		

EPHEMERIDES

12 25.7

12 25.8

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
249993	2001 <i>XT</i> ₉₂		12 25.7	31°22'	0°3'/25.7	18	130281	2000 <i>EM</i>		12 25.7	1°11'	3°3'/25.5	18
11 17	6 46.05	+23 3.7	1.767	2.557	16.1	20.6	11 17	6 45.01	+30 23.8	1.830	2.620	15.6	19.7
11 27	6 42.10	+22 55.7	1.690	2.563	12.7	20.4	11 27	6 41.56	+30 57.0	1.747	2.619	12.4	19.4
12 7	6 35.37	+22 48.9	1.633	2.568	8.7	20.2	12 7	6 35.19	+31 27.9	1.687	2.618	8.8	19.2
12 17	6 26.52	+22 42.0	1.601	2.574	4.2	20.0	12 17	6 26.54	+31 52.5	1.651	2.618	5.0	19.0
12 27	6 16.66	+22 34.2	1.598	2.581	0.7	19.7	12 27	6 16.70	+32 6.8	1.643	2.619	3.3	18.9
1 6	6 7.07	+22 25.0	1.622	2.587	5.3	20.0	1 6	6 7.03	+32 9.1	1.663	2.620	6.1	19.1
1 16	5 58.96	+22 15.4	1.674	2.594	9.6	20.3	1 16	5 58.84	+32 0.3	1.709	2.622	9.9	19.3
1 26	5 53.26	+22 6.5	1.751	2.602	13.3	20.6	1 26	5 53.16	+31 43.2	1.780	2.625	13.4	19.5
145619	2006 <i>QT</i> ₈₀		12 25.7	127°57'	4°6'/25.7	18	340114	2005 <i>WW</i> ₁₇₀		12 25.7	210°77'	1°0'/25.6	18
11 17	6 53.80	+36 53.1	2.227	2.982	14.2	20.5	11 17	6 49.78	+23 21.2	1.786	2.568	16.2	21.0
11 27	6 47.81	+37 18.9	2.150	2.995	11.5	20.4	11 27	6 45.31	+23 58.1	1.696	2.565	12.9	20.8
12 7	6 39.04	+37 37.3	2.096	3.008	8.5	20.2	12 7	6 37.81	+24 39.5	1.628	2.561	8.9	20.5
12 17	6 28.20	+37 43.3	2.069	3.021	5.7	20.0	12 17	6 27.85	+25 22.0	1.586	2.558	4.3	20.2
12 27	6 16.42	+37 33.9	2.070	3.032	4.6	20.0	12 27	6 16.51	+26 1.4	1.572	2.554	1.2	20.0
1 6	6 5.04	+37 8.5	2.101	3.044	6.3	20.1	1 6	6 5.20	+26 34.5	1.587	2.550	5.6	20.3
1 16	5 55.24	+36 29.9	2.160	3.055	9.1	20.3	1 16	5 55.32	+27 0.2	1.630	2.546	10.1	20.5
1 26	5 47.94	+35 42.5	2.246	3.065	11.9	20.5	1 26	5 48.00	+27 19.3	1.698	2.541	14.0	20.8
361848	2008 <i>DX</i> ₆₀		12 25.7	206°97'	1°6'/25.9	17	66766	1999 <i>TF</i> ₁₉₄		12 25.7	0°31'	9°4'/25.0	18
11 17	6 45.88	+17 48.6	2.399	3.164	13.1	22.2	11 17	6 53.91	+43 32.8	1.654	2.419	18.0	18.7
11 27	6 41.25	+17 47.9	2.302	3.159	10.4	22.0	11 27	6 49.79	+44 53.0	1.579	2.419	15.3	18.6
12 7	6 34.47	+17 51.8	2.228	3.154	7.2	21.8	12 7	6 41.52	+46 2.4	1.525	2.418	12.4	18.4
12 17	6 26.04	+17 59.7	2.180	3.149	3.8	21.5	12 17	6 29.80	+46 51.2	1.493	2.418	10.1	18.2
12 27	6 16.72	+18 11.1	2.163	3.144	1.7	21.4	12 27	6 16.23	+47 10.6	1.486	2.418	9.5	18.2
1 6	6 7.46	+18 24.9	2.176	3.138	4.6	21.6	1 6	6 2.93	+46 57.8	1.505	2.419	10.9	18.3
1 16	5 59.17	+18 40.7	2.219	3.131	8.0	21.8	1 16	5 51.92	+46 16.3	1.547	2.420	13.5	18.4
1 26	5 52.65	+18 57.9	2.289	3.124	11.2	22.0	1 26	5 44.64	+45 14.2	1.612	2.421	16.3	18.6
461309	2015 <i>XG</i> ₁₇₀		12 25.7	42°12'	0°2'/25.8	18	387580	2001 <i>TB</i> ₂₀₀		12 25.7	33°67'	2°4'/25.4	18
11 17	6 45.91	+21 5.2	1.769	2.558	16.1	21.0	11 17	6 48.69	+23 34.1	1.033	1.859	22.6	19.8
11 27	6 42.00	+21 27.0	1.694	2.567	12.7	20.7	11 27	6 45.77	+24 43.0	0.990	1.883	17.7	19.6
12 7	6 35.32	+21 53.8	1.641	2.576	8.7	20.5	12 7	6 38.63	+25 58.1	0.965	1.908	12.0	19.4
12 17	6 26.52	+22 23.2	1.613	2.586	4.1	20.3	12 17	6 28.26	+27 11.7	0.961	1.935	5.9	19.1
12 27	6 16.66	+22 52.6	1.612	2.596	0.6	20.0	12 27	6 16.49	+28 15.5	0.981	1.963	2.6	19.0
1 6	6 7.04	+23 19.8	1.641	2.606	5.2	20.4	1 6	6 5.48	+29 4.1	1.027	1.992	7.5	19.4
1 16	5 58.85	+23 43.7	1.697	2.616	9.5	20.7	1 16	5 57.07	+29 37.0	1.095	2.022	12.8	19.8
1 26	5 53.05	+24 4.4	1.777	2.627	13.2	20.9	1 26	5 52.43	+29 56.9	1.185	2.052	17.2	20.1
332228	2006 <i>HD</i> ₄₆		12 25.7	121°72'	4°4'/25.2	17	437540	2013 <i>YG</i> ₁₂₁		12 25.7	156°37'	1°7'/25.9	18
11 17	6 48.94	+36 29.8	2.612	3.367	12.4	21.1	11 17	6 50.05	+18 24.3	1.824	2.599	16.2	21.6
11 27	6 43.76	+37 17.2	2.533	3.377	10.0	20.9	11 27	6 45.14	+18 24.7	1.741	2.605	12.9	21.3
12 7	6 36.22	+37 59.3	2.477	3.387	7.5	20.8	12 7	6 37.43	+18 30.7	1.680	2.610	8.9	21.1
12 17	6 26.86	+38 31.8	2.448	3.396	5.2	20.6	12 17	6 27.55	+18 41.6	1.645	2.615	4.6	20.9
12 27	6 16.61	+38 51.1	2.448	3.405	4.5	20.6	12 27	6 16.58	+18 55.8	1.638	2.619	1.8	20.7
1 6	6 6.53	+38 55.9	2.478	3.414	5.9	20.7	1 6	6 5.80	+19 12.1	1.660	2.623	5.5	20.9
1 16	5 57.65	+38 47.1	2.537	3.423	8.3	20.9	1 16	5 56.44	+19 29.7	1.711	2.626	9.8	21.2
1 26	5 50.78	+38 27.6	2.621	3.432	10.7	21.0	1 26	5 49.49	+19 48.4	1.786	2.629	13.5	21.4
230256	2001 <i>VM</i> ₁₀₄		12 25.7	57°34'	2°0'/25.7	18	439214	2012 <i>SK</i> ₂₇		12 25.7	50°93'	3°1'/25.7	18
11 17	6 52.12	+27 6.8	1.361	2.160	19.5	20.1	11 17	6 52.96	+29 16.6	1.287	2.090	20.3	20.9
11 27	6 47.52	+27 23.9	1.306	2.183	15.4	19.9	11 27	6 48.39	+29 43.2	1.238	2.116	16.0	20.7
12 7	6 39.30	+27 39.9	1.271	2.207	10.5	19.7	12 7	6 39.98	+30 6.7	1.208	2.144	11.0	20.5
12 17	6 28.40	+27 50.6	1.259	2.231	5.3	19.5	12 17	6 28.76	+30 21.6	1.201	2.171	5.9	20.2
12 27	6 16.41	+27 52.6	1.274	2.255	2.1	19.3	12 27	6 16.43	+30 23.7	1.220	2.199	3.2	20.2
1 6	6 5.11	+27 45.1	1.315	2.279	6.4	19.7	1 6	6 4.93	+30 12.5	1.266	2.227	7.0	20.5
1 16	5 56.02	+27 30.3	1.383	2.304	11.2	20.0	1 16	5 55.85	+29 51.0	1.336	2.256	11.6	20.8
1 26	5 50.18	+27 11.7	1.474	2.328	15.2	20.3	1 26	5 50.20	+29 24.0	1.430	2.284	15.6	21.1
237879	2002 <i>KF</i> ₉		12 25.7	172°33'	2°9'/25.9	18	46041	2001 <i>DX</i> ₄₆		12 25.8	210°30'	4°4'/25.8	18
11 17	6 47.44	+14 58.9	2.159	2.922	14.4	21.1	11 17	6 53.41	+36 5.2	2.145	2.905	14.6	19.8
11 27	6 42.60	+14 44.5	2.071	2.925	11.5	20.9	11 27	6 47.84	+36 23.8	2.051	2.900	11.9	19.6
12 7	6 35.44	+14 36.4	2.005	2.927	8.2	20.7	12 7	6 39.30	+36 35.1	1.979	2.894	8.7	19.4
12 17	6 26.50	+14 35.0	1.965	2.929	4.7	20.5	12 17	6 28.46	+36 34.5	1.933	2.889	5.7	19.2
12 27	6 16.67	+14 40.4	1.955	2.930	2.9	20.4	12 27	6 16.45	+36 18.2	1.916	2.883	4.4	19.1
1 6	6 6.98	+14 51.8	1.974	2.931	5.4	20.6	1 6	6 4.67	+35 45.9	1.929	2.876	6.4	19.2
1 16	5 58.41	+15 8.6	2.023	2.932	8.9	20.8	1 16	5 54.42	+35 0.0	1.970	2.869	9.6	19.4
1 26	5 51.80	+15 29.8	2.097	2.931	12.1	21.0	1 26	5 46.74	+34 5.4	2.036	2.861	12.8	19.6
97675	2000 <i>FG</i> ₅₅		12 25.7	220°21'	1°8'/25.6	18	181522	2006 <i>UW</i> ₁₀₂		12 25.8	167°40'	3°5'/25.9	18
11 17	6 45.62	+28 56.0	2.748	3.513	11.6	20.7	11 17	6 49.97	+14 58.7	1.725	2.498	17.1	21.1
11 27	6 40.94	+29 14.6	2.649	3.507	9.2	20.6	11 27	6 45.18	+14 37.3	1.642	2.502	13.7	20.9
12 7	6 34.20	+29 31.5	2.574	3.500	6.4	20.4	12 7	6 37.52	+14 23.4	1.580	2.505	9.8	20.6
12 17	6 25.89	+29 44.5	2.526	3.494	3.4	20.2	12 17	6 27.62	+14 17.8	1.543	2.507	5.7	20.4
12 27	6 16.76	+29 51.5	2.509	3.487	1.9	20.0	12 27	6 16.58	+14 20.7	1.534	2.509	3.6	20.3
1 6	6 7.69	+29 51.5	2.522	3.480	4.3	20.2	1 6	6 5.72	+14 31.7	1.553	2.511	6.5	20.4
1 16	5 59.55	+29 44.9	2.565	3.473	7.3	20.4	1 16	5 56.33	+14 49.7	1.600	2.512	10.6	20.7
1 26	5 53.10	+29 33.4	2.635	3.465	10.0	20.6	1 26	5 49.42	+15 13.4	1.672	2.512	14.4	20.9
292857	2006 <i>US</i> ₃₅₈		12 25.7	69°02'	0°6'/25.8	18	226843	2004 <i>ST</i> ₃₀		12 25.8	1		

EPHEMERIDES

12 25.8

12 25.8

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
55193	2001 <i>RH</i> ₄		12 25.8	29°60	0°5/25.8	18	484555	2008 <i>HN</i> ₈		12 25.8	180°21	3°2/26.2	18
11 17	6 46.10	+23 7.1	1.490	2.292	18.0	19.0	11 17	6 44.80	+12 14.3	2.560	3.311	12.7	22.4
11 27	6 42.53	+22 50.5	1.424	2.303	14.2	18.8	11 27	6 40.18	+12 6.2	2.467	3.312	10.2	22.2
12 7	6 35.84	+22 35.0	1.378	2.316	9.7	18.6	12 7	6 33.65	+12 5.3	2.397	3.313	7.4	22.0
12 17	6 26.80	+22 19.6	1.355	2.329	4.6	18.3	12 17	6 25.66	+12 12.3	2.355	3.313	4.6	21.9
12 27	6 16.71	+22 3.7	1.360	2.343	0.8	18.1	12 27	6 16.91	+12 27.1	2.342	3.312	3.2	21.8
1 6	6 7.07	+21 47.6	1.391	2.357	5.8	18.4	1 6	6 8.25	+12 49.1	2.359	3.312	5.0	21.9
1 16	5 59.20	+21 32.4	1.449	2.372	10.5	18.7	1 16	6 0.48	+13 16.9	2.407	3.311	7.9	22.1
1 26	5 54.07	+21 19.7	1.530	2.388	14.5	19.0	1 26	5 54.28	+13 49.2	2.481	3.309	10.7	22.2
337249	2000 <i>RY</i> ₆₀		12 25.8	64°92	4°6/25.9	18	445648	2011 <i>UP</i> ₃₆		12 25.8	70°96	2°6/25.4	18
11 17	6 47.68	+14 4.8	1.549	2.334	18.2	20.1	11 17	6 49.40	+27 19.4	1.776	2.561	16.2	21.0
11 27	6 43.48	+13 22.9	1.481	2.346	14.6	19.9	11 27	6 44.93	+28 7.9	1.704	2.573	12.8	20.8
12 7	6 36.35	+12 49.2	1.434	2.359	10.5	19.7	12 7	6 37.46	+28 57.3	1.652	2.584	8.9	20.6
12 17	6 27.02	+12 25.7	1.410	2.372	6.5	19.5	12 17	6 27.63	+29 42.9	1.627	2.596	4.7	20.3
12 27	6 16.68	+12 14.0	1.413	2.385	4.6	19.4	12 27	6 16.63	+30 20.0	1.629	2.608	2.7	20.2
1 6	6 6.73	+12 14.2	1.443	2.398	7.2	19.6	1 6	6 5.87	+30 45.6	1.661	2.620	6.0	20.5
1 16	5 58.41	+12 25.3	1.500	2.412	11.1	19.9	1 16	5 56.71	+30 59.8	1.720	2.632	9.9	20.7
1 26	5 52.66	+12 45.5	1.580	2.425	14.8	20.1	1 26	5 50.16	+31 4.8	1.803	2.644	13.5	21.0
344194	2001 <i>OZ</i> ₂₂		12 25.8	148°44	8°1/24.4	17	340188	2005 <i>YJ</i> ₂₃₀		12 25.8	300°09	0°6/25.7	18
11 17	6 57.68	+15 15.7	1.221	2.008	22.0	20.2	11 17	6 46.94	+23 10.3	1.542	2.340	17.7	21.1
11 27	6 52.12	+12 53.6	1.149	2.013	18.0	20.0	11 27	6 43.69	+23 31.2	1.447	2.324	14.1	20.8
12 7	6 42.65	+10 30.4	1.096	2.018	13.4	19.7	12 7	6 37.10	+23 56.7	1.372	2.309	9.8	20.5
12 17	6 30.14	+ 8 14.5	1.067	2.022	9.3	19.5	12 17	6 27.68	+24 23.8	1.321	2.294	4.8	20.2
12 27	6 16.23	+ 6 15.9	1.065	2.025	8.2	19.4	12 27	6 16.59	+24 49.2	1.296	2.279	0.9	19.9
1 6	6 2.88	+ 4 43.5	1.089	2.028	11.2	19.6	1 6	6 5.42	+25 9.9	1.299	2.265	6.2	20.2
1 16	5 51.83	+ 3 41.4	1.138	2.031	15.6	19.9	1 16	5 55.76	+25 25.1	1.328	2.250	11.4	20.5
1 26	5 44.28	+ 3 8.7	1.208	2.033	19.7	20.1	1 26	5 48.97	+25 35.9	1.380	2.236	15.9	20.7
139419	2001 <i>OR</i> ₂₀		12 25.8	129°42	2°5/25.7	18	274728	2008 <i>UQ</i> ₁₈₃		12 25.8	148°73	0°0/25.8	18
11 17	6 48.28	+17 25.5	2.304	3.065	13.6	20.0	11 17	6 44.67	+22 29.1	2.632	3.399	12.0	21.4
11 27	6 42.95	+16 48.6	2.224	3.078	10.8	19.9	11 27	6 40.12	+22 39.0	2.543	3.404	9.4	21.2
12 7	6 35.49	+16 14.7	2.167	3.091	7.6	19.7	12 7	6 33.61	+22 50.6	2.478	3.408	6.4	21.0
12 17	6 26.48	+15 44.6	2.137	3.103	4.2	19.5	12 17	6 25.63	+23 2.6	2.441	3.412	3.1	20.8
12 27	6 16.77	+15 19.1	2.138	3.114	2.6	19.4	12 27	6 16.93	+23 13.7	2.433	3.416	0.4	20.6
1 6	6 7.33	+14 59.0	2.169	3.126	5.0	19.6	1 6	6 8.34	+23 23.0	2.457	3.420	3.9	20.9
1 16	5 59.05	+14 44.8	2.230	3.137	8.3	19.8	1 16	6 0.69	+23 30.4	2.510	3.424	7.1	21.1
1 26	5 52.64	+14 36.6	2.317	3.147	11.3	20.0	1 26	5 54.68	+23 36.3	2.591	3.427	10.0	21.3
188414	2004 <i>EH</i> ₁₀₃		12 25.8	150°05	3°2/26.1	18	112425	2002 <i>NX</i> ₄₇		12 25.8	269°64	1°0/25.8	18
11 17	6 49.50	+14 50.6	1.787	2.558	16.6	21.5	11 17	6 47.47	+21 41.7	1.827	2.611	15.9	20.0
11 27	6 44.69	+14 38.8	1.706	2.565	13.3	21.3	11 27	6 43.31	+21 24.8	1.733	2.603	12.6	19.7
12 7	6 37.11	+14 35.1	1.647	2.571	9.5	21.1	12 7	6 36.33	+21 9.4	1.661	2.594	8.7	19.5
12 17	6 27.40	+14 39.8	1.612	2.577	5.4	20.8	12 17	6 27.12	+20 54.9	1.614	2.586	4.3	19.2
12 27	6 16.62	+14 52.6	1.606	2.582	3.3	20.7	12 27	6 16.71	+20 40.7	1.595	2.577	1.2	18.9
1 6	6 6.05	+15 12.4	1.629	2.587	6.1	20.9	1 6	6 6.41	+20 26.9	1.604	2.569	5.5	19.2
1 16	5 56.89	+15 37.7	1.679	2.591	10.1	21.1	1 16	5 57.47	+20 14.4	1.642	2.560	9.9	19.5
1 26	5 50.11	+16 7.2	1.755	2.595	13.8	21.4	1 26	5 50.91	+20 4.5	1.704	2.551	13.8	19.7
419269	2009 <i>VU</i> ₁₁₂		12 25.8	10°29	2°0/25.5	17	492144	2013 <i>OP</i> ₁		12 25.8	110°43	0°8/25.8	17
11 17	6 45.11	+26 28.7	1.952	2.739	14.9	21.2	11 17	6 45.31	+21 43.6	2.471	3.239	12.6	21.8
11 27	6 41.36	+27 8.4	1.869	2.740	11.8	21.0	11 27	6 40.64	+21 25.9	2.386	3.247	9.9	21.6
12 7	6 34.93	+27 49.6	1.808	2.742	8.1	20.7	12 7	6 33.96	+21 9.2	2.325	3.255	6.8	21.4
12 17	6 26.40	+28 28.5	1.773	2.744	4.2	20.5	12 17	6 25.79	+20 53.0	2.292	3.263	3.3	21.2
12 27	6 16.76	+29 1.5	1.767	2.747	2.1	20.4	12 27	6 16.94	+20 37.2	2.288	3.270	0.9	21.0
1 6	6 7.24	+29 26.2	1.789	2.750	5.4	20.6	1 6	6 8.29	+20 22.0	2.315	3.278	4.2	21.3
1 16	5 59.02	+29 42.0	1.839	2.753	9.2	20.8	1 16	6 0.69	+20 8.0	2.372	3.285	7.5	21.5
1 26	5 53.08	+29 50.3	1.913	2.757	12.7	21.1	1 26	5 54.82	+19 56.1	2.455	3.292	10.4	21.7
478499	2012 <i>SQ</i> ₆		12 25.8	92°63	1°2/25.7	18	112997	2002 <i>RK</i> ₃₇		12 25.8	91°88	0°4/25.7	18
11 17	6 53.49	+25 12.8	1.701	2.480	17.0	21.8	11 17	6 45.93	+24 10.5	2.435	3.205	12.7	20.7
11 27	6 47.91	+25 36.1	1.638	2.505	13.4	21.6	11 27	6 41.18	+24 20.4	2.359	3.221	10.0	20.5
12 7	6 39.28	+26 0.3	1.597	2.529	9.1	21.4	12 7	6 34.35	+24 31.0	2.305	3.236	6.8	20.4
12 17	6 28.38	+26 21.7	1.581	2.553	4.4	21.2	12 17	6 25.98	+24 40.5	2.280	3.252	3.2	20.2
12 27	6 16.50	+26 37.1	1.594	2.576	1.4	21.1	12 27	6 16.91	+24 47.6	2.284	3.267	0.6	20.0
1 6	6 5.12	+26 45.0	1.636	2.598	5.6	21.4	1 6	6 8.07	+24 51.5	2.319	3.282	4.1	20.3
1 16	5 55.54	+26 46.2	1.706	2.621	9.8	21.7	1 16	6 0.33	+24 52.4	2.383	3.297	7.4	20.5
1 26	5 48.71	+26 42.9	1.800	2.642	13.4	22.0	1 26	5 54.40	+24 51.1	2.473	3.311	10.4	20.7
280827	2005 <i>UT</i> ₆₈		12 25.8	2°98	0°6/25.8	18	95174	2002 <i>AD</i> ₁₉₂		12 25.8	87°35	0°2/25.8	18
11 17	6 45.04	+25 45.9	1.165	1.988	20.7	19.9	11 17	6 52.71	+23 27.2	1.705	2.484	17.0	20.2
11 27	6 42.83	+25 31.9	1.095	1.987	16.5	19.7	11 27	6 47.20	+23 33.4	1.643	2.510	13.3	20.1
12 7	6 36.71	+25 16.3	1.043	1.986	11.3	19.4	12 7	6 38.74	+23 41.3	1.603	2.535	9.0	19.9
12 17	6 27.45	+24 57.1	1.012	1.987	5.5	19.1	12 17	6 28.13	+23 48.3	1.588	2.560	4.3	19.6
12 27	6 16.63	+24 32.8	1.006	1.989	1.0	18.8	12 27	6 16.62	+23 52.4	1.601	2.585	0.6	19.4
1 6	6 6.20	+24 4.2	1.024	1.992	6.9	19.2	1 6	6 5.63	+23 52.8	1.644	2.609	5.3	19.8
1 16	5 57.96	+23 33.9	1.066	1.997	12.6	19.5	1 16	5 56.41	+23 50.1	1.715	2.632	9.6	20.1
1 26	5 53.18	+23 5.4	1.129	2.002	17.4	19.8	1 26	5 49.84	+23 46.1	1.811	2.655	13.3	20.4
484380	2007 <i>VE</i> ₂₇₉		12 25.8	77°81	5°2/25.1	17	254398	2004 <i>TP</i> ₂₄₀		12 25.8	349°49	0°5/25.7	17
11 17	6 55.97	+33 38.8	1.813	2.582	16.5	21.6	11 17	6 46.63	+23 35.0	2.143	2.919	14.1	20.1
11 27	6 50.05	+34 54.1	1.758	2.613	13.2	21.5	11 27	6 42.09	+23 9.2	2.054	2.919	11.1	19.9
12 7	6 40.85	+36 4.8	1.725	2.643	9.6	21.3	12 7	6 35.17	+22 42.6	1.987	2.919	7.6	19.7
12 17	6 29.19	+37 3.5	1.718	2.673	6.3	21.2	12 17	6 26.44	+22 14.7	1.946	2.919	3.7	19.4
12 27	6 16.41	+37 44.1	1.740	2.703	5.2	21.2	12 27	6 16.85	+21 45.5	1.935	2.918	0.7	19.2
1 6	6 4.11	+38 4.5	1.790	2.732	7.3	21.4	1 6	6 7.46	+21 15.8	1.954	2.918	4.7	19.5
1 16	5 53.74	+38 6.2	1.868	2.761	10.4	21.6	1 16	5 59.30	+20 47.1	2.002	2.918	8.5	19.7
1 26	5 46.32	+37 54.2	1.970	2.789	13.4	21.9	1 26	5 53.18	+20 21.0	2.076	2.918	11.9	19.9

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
301741	2010 <i>GE</i> ₁₆₀	12 25.8	195°94'	2.1°/25.8	18		406156	2006 <i>VA</i> ₁₇₂	12 25.8	345°81'	0.9°/25.7	17	
11 17	6 51.53	+29 40.7	2.085	2.854	14.6	20.9	11 17	6 46.22	+23 24.0	1.702	2.494	16.5	20.7
11 27	6 46.21	+29 43.3	1.992	2.852	11.7	20.7	11 27	6 42.46	+22 51.2	1.615	2.489	13.1	20.5
12 7	6 38.13	+29 42.2	1.922	2.850	8.1	20.5	12 7	6 35.80	+22 17.3	1.549	2.485	9.0	20.2
12 17	6 27.92	+29 34.4	1.879	2.847	4.3	20.2	12 17	6 26.88	+21 42.0	1.509	2.482	4.4	20.0
12 27	6 16.64	+29 17.8	1.864	2.844	2.1	20.1	12 27	6 16.83	+21 5.8	1.496	2.478	1.1	19.7
1 6	6 5.56	+28 52.2	1.880	2.840	5.3	20.3	1 6	6 7.01	+20 30.0	1.511	2.476	5.6	20.0
1 16	5 55.90	+28 19.5	1.925	2.836	9.1	20.5	1 16	5 58.69	+19 56.7	1.553	2.474	10.1	20.3
1 26	5 48.61	+27 43.1	1.995	2.831	12.6	20.7	1 26	5 52.88	+19 28.0	1.619	2.472	14.1	20.5
101739	1999 <i>FS</i> ₆	12 25.8	240°68'	2.8°/25.5	18		31180	1997 <i>YX</i> ₃	12 25.8	26°28'	11.6°/31.1	18	
11 17	6 48.68	+30 13.8	2.270	3.039	13.6	20.5	11 17	7 25.39	+55 52.1	1.064	1.804	27.4	17.0
11 27	6 43.96	+30 44.1	2.169	3.029	10.9	20.3	11 27	7 14.19	+54 53.2	1.028	1.841	23.4	16.9
12 7	6 36.65	+31 12.6	2.092	3.018	7.7	20.0	12 7	6 56.60	+53 15.4	1.006	1.881	19.0	16.8
12 17	6 27.27	+31 35.8	2.041	3.007	4.4	19.8	12 17	6 35.80	+50 47.0	1.004	1.922	14.6	16.6
12 27	6 16.73	+31 50.2	2.019	2.995	2.8	19.7	12 27	6 15.80	+47 29.2	1.027	1.966	11.8	16.6
1 6	6 6.21	+31 54.0	2.028	2.983	5.4	19.8	1 6	5 59.77	+43 39.9	1.077	2.010	12.1	16.8
1 16	5 56.84	+31 47.8	2.065	2.971	8.8	20.0	1 16	5 49.10	+39 43.6	1.154	2.055	14.7	17.1
1 26	5 49.62	+31 33.8	2.127	2.959	12.1	20.2	1 26	5 43.84	+36 1.5	1.257	2.102	17.9	17.4
332872	2010 <i>XX</i> ₄₄	12 25.8	312°39'	1.8°/25.5	18		359867	2011 <i>VW</i> ₂₀	12 25.8	141°81'	1.4°/25.6	18	
11 17	6 45.32	+26 10.9	1.990	2.775	14.7	20.7	11 17	6 49.04	+25 23.8	2.116	2.889	14.3	21.3
11 27	6 41.64	+26 46.9	1.893	2.763	11.7	20.5	11 27	6 44.15	+25 55.5	2.033	2.896	11.3	21.1
12 7	6 35.25	+27 24.9	1.818	2.751	8.1	20.3	12 7	6 36.69	+26 28.7	1.972	2.902	7.7	20.9
12 17	6 26.66	+28 1.5	1.769	2.740	4.2	20.0	12 17	6 27.25	+27 0.2	1.938	2.909	3.9	20.7
12 27	6 16.81	+28 33.1	1.748	2.729	2.0	19.8	12 27	6 16.79	+27 26.7	1.933	2.915	1.5	20.6
1 6	6 6.93	+28 57.1	1.756	2.718	5.4	20.0	1 6	6 6.48	+27 46.5	1.959	2.920	4.9	20.8
1 16	5 58.25	+29 12.7	1.792	2.707	9.4	20.3	1 16	5 57.44	+27 59.1	2.013	2.925	8.7	21.0
1 26	5 51.82	+29 21.2	1.853	2.697	13.0	20.5	1 26	5 50.58	+28 6.0	2.093	2.930	12.0	21.3
366352	1999 <i>TQ</i> ₂₉	12 25.8	51°80'	5.8°/26.2	18		441060	2007 <i>PR</i> ₄₅	12 25.8	128°74'	3.1°/25.3	18	
11 17	6 49.91	+12 46.0	1.170	1.971	22.0	20.2	11 17	6 52.92	+29 32.8	2.097	2.863	14.7	21.1
11 27	6 45.81	+11 59.1	1.123	1.996	17.7	20.0	11 27	6 47.30	+30 28.0	2.020	2.878	11.6	20.9
12 7	6 38.16	+11 25.1	1.094	2.021	12.8	19.8	12 7	6 38.89	+31 22.4	1.967	2.892	8.2	20.7
12 17	6 27.93	+11 7.0	1.086	2.048	8.0	19.6	12 17	6 28.32	+32 11.0	1.941	2.905	4.7	20.6
12 27	6 16.68	+11 5.8	1.103	2.074	5.8	19.6	12 27	6 16.64	+32 49.0	1.944	2.918	3.2	20.5
1 6	6 6.18	+11 20.6	1.145	2.101	8.5	19.8	1 6	6 5.17	+33 14.0	1.978	2.931	5.8	20.7
1 16	5 57.87	+11 48.6	1.211	2.128	12.8	20.1	1 16	5 55.13	+33 26.2	2.040	2.942	9.2	20.9
1 26	5 52.73	+12 26.0	1.299	2.155	16.7	20.4	1 26	5 47.51	+33 28.0	2.128	2.954	12.3	21.1
523260	2017 <i>AO</i> ₂₃	12 25.8	338°19'	10.3°/25.8	17		138164	2000 <i>EG</i> ₉₆	12 25.8	187°27'	5.9°/25.4	18	
11 17	6 40.25	+ 4 18.5	1.416	2.198	19.7	20.9	11 17	6 53.72	+39 55.9	2.276	3.025	14.1	20.6
11 27	6 38.22	+ 2 52.0	1.333	2.183	16.9	20.6	11 27	6 48.16	+40 42.6	2.189	3.025	11.7	20.4
12 7	6 33.20	+ 1 39.4	1.268	2.169	13.8	20.4	12 7	6 39.62	+41 21.6	2.124	3.024	9.0	20.2
12 17	6 25.76	+ 0 48.0	1.225	2.156	11.2	20.2	12 17	6 28.72	+41 46.7	2.084	3.023	6.7	20.1
12 27	6 16.95	+ 0 24.2	1.205	2.145	10.3	20.1	12 27	6 16.60	+41 53.4	2.073	3.022	6.0	20.1
1 6	6 8.17	+ 0 30.5	1.208	2.134	11.8	20.2	1 6	6 4.68	+41 39.9	2.091	3.020	7.4	20.1
1 16	6 0.78	+ 1 5.4	1.233	2.124	14.8	20.3	1 16	5 54.28	+41 8.4	2.137	3.017	9.9	20.3
1 26	5 55.95	+ 2 3.6	1.279	2.116	18.1	20.5	1 26	5 46.45	+40 23.6	2.207	3.014	12.5	20.5
507887	2014 <i>PW</i> ₆₆	12 25.8	93°75'	11.0°/27.6	17		179907	2002 <i>VL</i> ₂₀	12 25.8	94°45'	0.4°/25.7	18	
11 17	7 8.70	+46 50.6	1.176	1.945	23.7	21.7	11 17	6 53.57	+23 8.7	1.608	2.390	17.8	20.6
11 27	7 2.75	+47 21.3	1.114	1.953	20.2	21.5	11 27	6 48.15	+23 27.0	1.545	2.413	14.0	20.5
12 7	6 50.83	+47 30.0	1.066	1.962	16.3	21.3	12 7	6 39.57	+23 48.1	1.502	2.435	9.5	20.2
12 17	6 34.25	+47 2.9	1.039	1.971	12.7	21.1	12 17	6 28.62	+24 8.8	1.485	2.457	4.5	20.0
12 27	6 15.82	+45 50.7	1.035	1.979	11.0	21.0	12 27	6 16.64	+24 26.0	1.496	2.479	0.8	19.8
1 6	5 58.92	+43 56.1	1.055	1.987	12.4	21.1	1 6	6 5.15	+24 38.0	1.536	2.500	5.6	20.2
1 16	5 46.13	+41 32.9	1.099	1.995	15.7	21.4	1 16	5 55.51	+24 45.2	1.603	2.521	10.1	20.5
1 26	5 38.71	+38 59.3	1.165	2.003	19.5	21.6	1 26	5 48.71	+24 49.1	1.695	2.540	14.0	20.8
341099	2007 <i>JQ</i> ₂₄	12 25.8	278°22'	7.6°/26.7	18		413318	2003 <i>UB</i> ₃₇₈	12 25.8	25°13'	2.1°/25.6	17	
11 17	6 45.67	+ 5 14.5	1.661	2.422	18.1	20.9	11 17	6 45.72	+27 54.9	1.942	2.728	15.0	21.5
11 27	6 41.96	+ 4 38.2	1.576	2.417	15.2	20.6	11 27	6 41.81	+28 18.0	1.863	2.733	11.8	21.3
12 7	6 35.47	+ 4 17.3	1.511	2.413	11.9	20.4	12 7	6 35.23	+28 40.1	1.806	2.739	8.2	21.0
12 17	6 26.75	+ 4 15.8	1.469	2.409	8.9	20.2	12 17	6 26.58	+28 58.1	1.775	2.745	4.3	20.8
12 27	6 16.83	+ 4 35.9	1.453	2.404	7.6	20.2	12 27	6 16.92	+29 9.1	1.772	2.751	2.1	20.7
1 6	6 6.98	+ 5 17.0	1.463	2.400	9.1	20.2	1 6	6 7.47	+29 11.8	1.797	2.758	5.3	20.9
1 16	5 58.45	+ 6 15.9	1.498	2.396	12.2	20.4	1 16	5 59.41	+29 6.8	1.850	2.766	9.1	21.2
1 26	5 52.27	+ 7 27.5	1.558	2.392	15.6	20.6	1 26	5 53.65	+28 56.3	1.928	2.773	12.5	21.4
487084	2014 <i>OM</i> ₁₁₉	12 25.8	53°30'	2.3°/25.7	17		245955	2006 <i>SA</i> ₄₆	12 25.8	73°94'	5.3°/25.9	18	
11 17	6 48.48	+29 29.7	1.911	2.693	15.4	21.9	11 17	6 46.89	+11 19.4	1.848	2.615	16.3	20.4
11 27	6 44.03	+29 41.4	1.829	2.696	12.2	21.7	11 27	6 42.34	+10 25.2	1.780	2.632	13.2	20.2
12 7	6 36.75	+29 50.1	1.769	2.700	8.5	21.5	12 7	6 35.33	+ 9 39.5	1.734	2.648	9.8	20.0
12 17	6 27.29	+29 52.5	1.735	2.704	4.5	21.3	12 17	6 26.54	+ 9 5.1	1.712	2.665	6.6	19.9
12 27	6 16.77	+29 46.2	1.728	2.707	2.4	21.1	12 27	6 16.95	+ 8 44.0	1.718	2.681	5.3	19.9
1 6	6 6.51	+29 30.5	1.751	2.711	5.5	21.3	1 6	6 7.71	+ 8 36.8	1.753	2.698	7.2	20.0
1 16	5 57.75	+29 7.0	1.801	2.715	9.4	21.6	1 16	5 59.83	+ 8 42.8	1.814	2.714	10.3	20.2
1 26	5 51.45	+28 39.0	1.876	2.720	12.9	21.8	1 26	5 54.11	+ 9 0.0	1.900	2.730	13.3	20.4
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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
241662	2000 KO ₄₄		12 25.8	53°68	12°7	1.3 17							
11 17	7 16.94	-15 23.3	0.776	1.488	37.2	19.4	11 17	6 42.76	+11 35.3	2.376	3.135	13.3	21.1
11 27	7 7.31	-13 9.3	0.747	1.541	31.6	19.3	11 27	6 38.91	+10 58.6	2.271	3.119	10.9	20.9
12 7	6 52.68	-9 51.0	0.728	1.595	25.1	19.1	12 7	6 33.01	+10 28.3	2.189	3.103	8.1	20.7
12 17	6 34.66	-5 28.1	0.728	1.648	18.4	18.9	12 17	6 25.50	+10 6.0	2.133	3.087	5.4	20.5
12 27	6 15.91	-0 19.2	0.754	1.701	13.4	18.9	12 27	6 17.12	+9 53.4	2.106	3.071	4.3	20.4
1 6	5 59.26	+5 1.1	0.809	1.753	13.2	19.1	1 6	6 8.73	+9 50.9	2.108	3.054	6.0	20.5
1 16	5 46.73	+10 0.4	0.891	1.803	16.7	19.5	1 16	6 1.21	+9 58.5	2.138	3.038	8.9	20.7
1 26	5 39.24	+14 20.3	0.999	1.853	20.8	20.0	1 26	5 55.33	+10 15.0	2.193	3.022	11.9	20.8
353984	2000 GN ₈₄		12 25.8	267°23	8°6/26.7	18							
11 17	6 44.79	-0 33.1	2.156	2.876	15.6	21.2	11 17	6 46.54	+21 6.7	2.008	2.786	14.8	19.4
11 27	6 40.76	-1 16.7	2.051	2.855	13.6	21.0	11 27	6 42.47	+21 16.3	1.906	2.772	11.8	19.1
12 7	6 34.43	-1 45.3	1.966	2.835	11.3	20.8	12 7	6 35.78	+21 29.9	1.826	2.758	8.1	18.9
12 17	6 26.25	-1 54.5	1.905	2.813	9.4	20.7	12 17	6 26.95	+21 45.9	1.772	2.744	4.0	18.6
12 27	6 16.98	-1 41.1	1.870	2.792	8.6	20.6	12 27	6 16.91	+22 2.7	1.747	2.730	0.7	18.3
1 6	6 7.59	-1 4.5	1.862	2.770	9.5	20.6	1 6	6 6.83	+22 18.6	1.751	2.715	5.0	18.6
1 16	5 59.11	-0 6.6	1.880	2.748	11.7	20.7	1 16	5 57.88	+22 33.0	1.783	2.700	9.3	18.8
1 26	5 52.42	+1 8.1	1.923	2.725	14.3	20.8	1 26	5 51.09	+22 46.1	1.841	2.686	13.0	19.0
54400	2000 LD		12 25.8	270°24	0°5/25.8	18							
11 17	6 46.54	+21 6.7	2.008	2.786	14.8	19.4	11 17	6 46.24	+21 6.9	1.953	2.734	15.1	21.6
11 27	6 42.47	+21 16.3	1.906	2.772	11.8	19.1	11 27	6 42.14	+21 30.0	1.869	2.737	11.9	21.4
12 7	6 35.78	+21 29.9	1.826	2.758	8.1	18.9	12 7	6 35.45	+21 57.9	1.806	2.739	8.1	21.1
12 17	6 26.95	+21 45.9	1.772	2.744	4.0	18.6	12 17	6 26.74	+22 28.3	1.770	2.742	3.9	20.9
12 27	6 16.91	+22 2.7	1.747	2.730	0.7	18.3	12 27	6 16.96	+22 58.9	1.762	2.745	0.6	20.6
1 6	6 6.83	+22 18.6	1.751	2.715	5.0	18.6	1 6	6 7.30	+23 27.3	1.783	2.748	4.9	21.0
1 16	5 57.88	+22 33.0	1.783	2.700	9.3	18.8	1 16	5 58.89	+23 52.5	1.833	2.751	9.0	21.2
1 26	5 51.09	+22 46.1	1.841	2.686	13.0	19.0	1 26	5 52.69	+24 14.5	1.908	2.754	12.6	21.4
454543	2014 OK ₃₄₂		12 25.8	46°23	0°2/25.8	18							
11 17	6 46.24	+21 6.9	1.953	2.734	15.1	21.6	11 17	6 46.24	+21 6.9	1.953	2.734	15.1	21.6
11 27	6 42.14	+21 30.0	1.869	2.737	11.9	21.4	11 27	6 42.14	+21 30.0	1.869	2.737	11.9	21.4
12 7	6 35.45	+21 57.9	1.806	2.739	8.1	21.1	12 7	6 35.45	+21 57.9	1.806	2.739	8.1	21.1
12 17	6 26.74	+22 28.3	1.770	2.742	3.9	20.9	12 17	6 26.74	+22 28.3	1.770	2.742	3.9	20.9
12 27	6 16.96	+22 58.9	1.762	2.745	0.6	20.6	12 27	6 16.96	+22 58.9	1.762	2.745	0.6	20.6
1 6	6 7.30	+23 27.3	1.783	2.748	4.9	21.0	1 6	6 7.30	+23 27.3	1.783	2.748	4.9	21.0
1 16	5 58.89	+23 52.5	1.833	2.751	9.0	21.2	1 16	5 58.89	+23 52.5	1.833	2.751	9.0	21.2
1 26	5 52.69	+24 14.5	1.908	2.754	12.6	21.4	1 26	5 52.69	+24 14.5	1.908	2.754	12.6	21.4
189713	2001 TD ₁₉₈		12 25.8	127°69	3°2/25.5	18							
11 17	6 53.33	+29 33.6	1.792	2.569	16.4	21.0	11 17	6 53.33	+29 33.6	1.792	2.569	16.4	21.0
11 27	6 48.11	+30 16.8	1.717	2.580	13.0	20.8	11 27	6 48.11	+30 16.8	1.717	2.580	13.0	20.8
12 7	6 39.70	+30 58.7	1.663	2.591	9.2	20.6	12 7	6 39.70	+30 58.7	1.663	2.591	9.2	20.6
12 17	6 28.82	+31 34.2	1.635	2.601	5.2	20.4	12 17	6 28.82	+31 34.2	1.635	2.601	5.2	20.4
12 27	6 16.69	+31 58.3	1.635	2.611	3.3	20.3	12 27	6 16.69	+31 58.3	1.635	2.611	3.3	20.3
1 6	6 4.84	+32 8.9	1.664	2.620	6.3	20.5	1 6	6 4.84	+32 8.9	1.664	2.620	6.3	20.5
1 16	5 54.69	+32 6.8	1.721	2.629	10.2	20.7	1 16	5 54.69	+32 6.8	1.721	2.629	10.2	20.7
1 26	5 47.32	+31 55.5	1.803	2.638	13.7	21.0	1 26	5 47.32	+31 55.5	1.803	2.638	13.7	21.0
214257	2005 GP		12 25.8	282°11	0°2/25.8	18							
11 17	6 47.10	+22 39.5	1.815	2.601	15.9	21.3	11 17	6 47.10	+22 39.5	1.815	2.601	15.9	21.3
11 27	6 43.15	+22 41.8	1.722	2.592	12.6	21.1	11 27	6 43.15	+22 41.8	1.722	2.592	12.6	21.1
12 7	6 36.34	+22 46.4	1.650	2.584	8.7	20.8	12 7	6 36.34	+22 46.4	1.650	2.584	8.7	20.8
12 17	6 27.25	+22 51.7	1.603	2.575	4.2	20.6	12 17	6 27.25	+22 51.7	1.603	2.575	4.2	20.6
12 27	6 16.90	+22 56.1	1.584	2.567	0.6	20.3	12 27	6 16.90	+22 56.1	1.584	2.567	0.6	20.3
1 6	6 6.61	+22 58.3	1.594	2.559	5.4	20.6	1 6	6 6.61	+22 58.3	1.594	2.559	5.4	20.6
1 16	5 57.68	+22 58.7	1.631	2.550	9.8	20.8	1 16	5 57.68	+22 58.7	1.631	2.550	9.8	20.8
1 26	5 51.15	+22 58.1	1.693	2.542	13.8	21.1	1 26	5 51.15	+22 58.1	1.693	2.542	13.8	21.1
81615	2000 HQ ₇₀		12 25.8	333°64	1°0/25.7	18							
11 17	6 46.61	+25 32.9	1.710	2.503	16.4	19.4	11 17	6 46.61	+25 32.9	1.710	2.503	16.4	19.4
11 27	6 42.97	+25 41.1	1.623	2.497	13.1	19.2	11 27	6 42.97	+25 41.1	1.623	2.497	13.1	19.2
12 7	6 36.31	+25 49.7	1.557	2.492	9.0	18.9	12 7	6 36.31	+25 49.7	1.557	2.492	9.0	18.9
12 17	6 27.25	+25 56.1	1.515	2.488	4.4	18.7	12 17	6 27.25	+25 56.1	1.515	2.488	4.4	18.7
12 27	6 16.91	+25 57.8	1.501	2.483	1.2	18.4	12 27	6 16.91	+25 57.8	1.501	2.483	1.2	18.4
1 6	6 6.72	+25 53.9	1.515	2.479	5.6	18.7	1 6	6 6.72	+25 53.9	1.515	2.479	5.6	18.7
1 16	5 58.02	+25 45.0	1.555	2.476	10.1	19.0	1 16	5 58.02	+25 45.0	1.555	2.476	10.1	19.0
1 26	5 51.91	+25 33.2	1.620	2.473	14.1	19.2	1 26	5 51.91	+25 33.2	1.620	2.473	14.1	19.2
501608	2014 QU ₃₉₀		12 25.8	324°81	20°4/24.7	17							
11 17	7 8.21	+57 27.1	1.103	1.853	26.0	20.8	11 17	7 8.21	+57 27.1	1.103	1.853	26.0	20.8
11 27	7 6.75	+59 58.6	1.048	1.848	24.0	20.7	11 27	7 6.75	+59 58.6	1.048	1.848	24.0	20.7
12 7	6 56.88	+62 7.9	1.006	1.842	22.1	20.5	12 7	6 56.88	+62 7.9	1.006	1.842	22.1	20.5
12 17	6 38.63	+63 33.2	0.980	1.837	20.8	20.4	12 17	6 38.63	+63 33.2	0.980	1.837	20.8	20.4
12 27	6 15.27	+63 53.2	0.970	1.832	20.4	20.4	12 27	6 15.27	+63 53.2	0.970	1.832	20.4	20.4
1 6	5 52.77	+63 0.6	0.977	1.828	21.3	20.4	1 6	5 52.77	+63 0.6	0.977	1.828	21.3	20.4
1 16	5 36.50	+61 6.0	1.001	1.824	23.0	20.5	1 16	5 36.50	+61 6.0	1.001	1.824	23.0	20.5
1 26	5 28.87	+58 31.0	1.040	1.821	25.2	20.6	1 26	5 28.87	+58 31.0	1.040	1.821	25.2	20.6
334269	2001 UC ₄₀		12 25.8	69°52	0°2/25.8	18							
11 17	6 51.63	+21 55.1	1.468	2.259	18.7	21.0	11 17	6 51.63	+21 55.1	1.468	2.259	18.7	21.0
11 27	6 46.87	+22 8.3	1.409	2.282	14.7	20.8	11 27	6 46.87	+22 8.3	1.409	2.282	14.7	20.8
12 7	6 38.83	+22 25.5	1.370	2.305	10.0	20.5	12 7	6 38.83	+				

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
274681	2008 UD ₁₄	12 25.8 280°74'			0°9/25.8 18		276334	2002 TS ₂₇₁	12 25.8 316°60'			6°0/25.9 18	
11 17	6 46.35	+27 16.8	2.344	3.117	13.1	20.3	11 17	6 42.62	+ 6 37.1	2.398	3.142	13.6	20.2
11 27	6 41.88	+27 6.5	2.243	3.106	10.4	20.1	11 27	6 38.63	+ 5 41.4	2.310	3.141	11.3	20.0
12 7	6 35.10	+26 53.8	2.165	3.096	7.2	19.9	12 7	6 32.72	+ 4 54.5	2.244	3.140	8.9	19.8
12 17	6 26.53	+26 36.9	2.114	3.085	3.6	19.6	12 17	6 25.36	+ 4 19.4	2.205	3.138	6.8	19.7
12 27	6 17.03	+26 15.0	2.093	3.075	1.0	19.4	12 27	6 17.26	+ 3 58.3	2.193	3.137	6.0	19.7
1 6	6 7.65	+25 48.1	2.101	3.065	4.5	19.6	1 6	6 9.27	+ 3 52.2	2.209	3.136	7.2	19.7
1 16	5 59.36	+25 17.8	2.139	3.054	8.1	19.8	1 16	6 2.18	+ 4 0.6	2.253	3.135	9.4	19.9
1 26	5 53.02	+24 46.2	2.203	3.044	11.4	20.0	1 26	5 56.70	+ 4 21.5	2.322	3.134	11.9	20.0
515058	2010 JY ₁₇₅	12 25.8 168°48'			4°4/26.4 18		478468	2012 QS ₂₀	12 25.8 89°15'			0°1/25.8 16	
11 17	6 47.05	+ 8 36.0	2.518	3.255	13.2	22.7	11 17	6 53.64	+23 43.6	1.662	2.442	17.4	22.1
11 27	6 41.95	+ 8 19.8	2.429	3.261	10.8	22.6	11 27	6 48.05	+23 43.6	1.600	2.467	13.6	21.9
12 7	6 34.89	+ 8 12.8	2.362	3.265	8.1	22.4	12 7	6 39.42	+23 44.7	1.560	2.492	9.2	21.7
12 17	6 26.35	+ 8 16.4	2.323	3.269	5.6	22.3	12 17	6 28.59	+23 44.6	1.544	2.517	4.4	21.4
12 27	6 17.06	+ 8 30.8	2.313	3.273	4.4	22.2	12 27	6 16.84	+23 41.6	1.558	2.541	0.6	21.2
1 6	6 7.88	+ 8 55.6	2.333	3.275	5.8	22.3	1 6	6 5.65	+23 35.1	1.600	2.564	5.4	21.6
1 16	5 59.63	+ 9 29.1	2.383	3.277	8.4	22.4	1 16	5 56.28	+23 26.4	1.670	2.587	9.8	21.9
1 26	5 53.01	+10 9.4	2.459	3.278	11.1	22.6	1 26	5 49.65	+23 17.1	1.765	2.610	13.5	22.2
164389	2005 EL ₂₇₈	12 25.8 272°93'			2°9/26.1 18		145224	2005 JR ₆₃	12 25.8 242°34'			13°4/27.3 18	
11 17	6 42.74	+14 16.0	2.464	3.227	12.8	20.4	11 17	6 44.26	-13 1.1	2.063	2.724	17.8	20.2
11 27	6 38.77	+14 0.8	2.369	3.223	10.3	20.2	11 27	6 40.34	-14 28.7	1.988	2.720	16.4	20.0
12 7	6 32.84	+13 51.5	2.297	3.218	7.4	20.0	12 7	6 34.13	-15 34.5	1.931	2.716	14.9	19.9
12 17	6 25.41	+13 48.8	2.251	3.214	4.4	19.8	12 17	6 26.12	-16 11.4	1.893	2.712	13.8	19.8
12 27	6 17.20	+13 52.8	2.235	3.209	2.9	19.7	12 27	6 17.16	-16 14.5	1.877	2.708	13.4	19.8
1 6	6 9.06	+14 3.3	2.249	3.204	4.9	19.8	1 6	6 8.29	-15 42.4	1.883	2.704	13.8	19.8
1 16	6 1.80	+14 19.4	2.291	3.200	8.0	20.0	1 16	6 0.47	-14 37.9	1.911	2.700	14.9	19.9
1 26	5 56.15	+14 40.3	2.360	3.195	10.9	20.2	1 26	5 54.57	-13 6.7	1.959	2.695	16.4	20.0
151120	2001 WT ₅₂	12 25.8 61°74'			1°7/25.9 18		101878	1999 NR ₂₃	12 25.8 139°45'			0°3/25.8 18 R	
11 17	6 46.45	+19 44.5	1.908	2.689	15.4	20.3	11 17	6 53.22	+22 3.4	1.767	2.542	16.7	20.9
11 27	6 42.21	+19 25.1	1.828	2.694	12.2	20.1	11 27	6 47.77	+22 8.2	1.690	2.554	13.2	20.6
12 7	6 35.41	+19 8.8	1.769	2.700	8.4	19.9	12 7	6 39.35	+22 15.9	1.635	2.566	9.0	20.4
12 17	6 26.69	+18 55.4	1.736	2.706	4.3	19.6	12 17	6 28.64	+22 24.4	1.605	2.576	4.3	20.2
12 27	6 17.03	+18 44.8	1.731	2.712	1.7	19.5	12 27	6 16.83	+22 31.6	1.603	2.587	0.7	19.9
1 6	6 7.61	+18 37.1	1.756	2.718	5.2	19.7	1 6	6 5.33	+22 36.5	1.632	2.596	5.4	20.3
1 16	5 59.52	+18 32.5	1.808	2.725	9.2	20.0	1 16	5 55.44	+22 39.2	1.689	2.604	9.8	20.6
1 26	5 53.62	+18 31.4	1.885	2.731	12.7	20.2	1 26	5 48.16	+22 40.8	1.770	2.612	13.6	20.8
143106	2002 XN ₂₂	12 25.8 124°13'			2°8/25.6 18		361341	2006 UC ₁₂₄	12 25.8 14°90'			3°1/26.0 18	
11 17	6 49.48	+30 1.4	1.993	2.770	15.0	20.2	11 17	6 44.81	+16 16.4	1.671	2.459	16.9	21.0
11 27	6 44.80	+30 28.3	1.911	2.774	11.9	20.0	11 27	6 41.31	+15 54.4	1.592	2.461	13.5	20.7
12 7	6 37.31	+30 52.8	1.850	2.778	8.4	19.8	12 7	6 35.04	+15 39.0	1.534	2.464	9.6	20.5
12 17	6 27.65	+31 11.1	1.815	2.782	4.7	19.6	12 17	6 26.61	+15 31.1	1.500	2.467	5.4	20.3
12 27	6 16.90	+31 19.8	1.809	2.786	2.9	19.5	12 27	6 17.11	+15 30.9	1.493	2.470	3.2	20.1
1 6	6 6.35	+31 17.5	1.832	2.790	5.6	19.7	1 6	6 7.81	+15 38.0	1.513	2.474	6.2	20.3
1 16	5 57.24	+31 5.3	1.883	2.793	9.3	19.9	1 16	5 59.92	+15 51.7	1.561	2.479	10.3	20.6
1 26	5 50.55	+30 46.1	1.959	2.797	12.7	20.1	1 26	5 54.42	+16 10.8	1.632	2.484	14.1	20.8
171295	2006 HD ₁	12 25.8 267°73'			1°8/25.9 18		357333	2003 NJ ₇	12 25.8 60°12'			9°0/25.6 18	
11 17	6 44.17	+18 4.0	2.444	3.211	12.8	20.8	11 17	7 6.54	+35 47.1	0.926	1.734	26.0	19.8
11 27	6 40.02	+17 50.7	2.338	3.197	10.2	20.6	11 27	7 0.80	+37 33.4	0.898	1.772	20.9	19.6
12 7	6 33.79	+17 40.9	2.255	3.182	7.1	20.4	12 7	6 49.31	+39 8.6	0.886	1.811	15.5	19.5
12 17	6 25.91	+17 34.6	2.198	3.167	3.8	20.2	12 17	6 33.52	+40 17.2	0.895	1.849	10.7	19.4
12 27	6 17.14	+17 31.7	2.172	3.151	1.9	20.0	12 27	6 16.23	+40 47.6	0.926	1.887	9.0	19.4
1 6	6 8.36	+17 32.0	2.175	3.136	4.6	20.2	1 6	6 0.63	+40 39.6	0.982	1.925	11.5	19.7
1 16	6 0.47	+17 35.5	2.208	3.121	8.0	20.4	1 16	5 49.11	+40 2.4	1.059	1.963	15.5	20.0
1 26	5 54.27	+17 42.0	2.267	3.105	11.2	20.5	1 26	5 42.80	+39 9.1	1.156	2.000	19.2	20.4
197702	2004 OB ₉	12 25.8 121°91'			0°1/25.8 18		403636	2010 SC ₂₀	12 25.8 21°33'			2°6/25.9 17	
11 17	6 52.01	+22 52.0	1.926	2.698	15.6	21.3	11 17	6 44.57	+17 58.8	1.607	2.402	17.2	20.8
11 27	6 46.49	+22 53.5	1.852	2.714	12.3	21.1	11 27	6 41.18	+17 33.1	1.534	2.407	13.7	20.6
12 7	6 38.27	+22 56.6	1.800	2.731	8.4	20.9	12 7	6 34.96	+17 12.6	1.481	2.414	9.6	20.4
12 17	6 28.04	+22 59.5	1.774	2.746	4.0	20.7	12 17	6 26.56	+16 57.9	1.452	2.422	5.2	20.2
12 27	6 16.89	+23 0.4	1.778	2.761	0.6	20.5	12 27	6 17.12	+16 49.4	1.450	2.430	2.7	20.0
1 6	6 6.08	+22 58.9	1.812	2.775	5.0	20.8	1 6	6 7.97	+16 46.9	1.476	2.438	6.1	20.3
1 16	5 56.77	+22 55.4	1.874	2.789	9.1	21.1	1 16	6 0.33	+16 50.3	1.527	2.448	10.3	20.5
1 26	5 49.84	+22 51.2	1.962	2.802	12.6	21.3	1 26	5 55.15	+16 59.1	1.603	2.457	14.1	20.8
454554	2014 OA ₃₈₆	12 25.8 95°23'			0°1/25.8 18		270823	2002 SL ₂₀	12 25.8 203°41'			4°3/25.3 18	
11 17	6 47.59	+23 45.1	2.041	2.818	14.6	21.5	11 17	6 48.35	+36 8.7	2.561	3.318	12.5	20.7
11 27	6 42.99	+23 41.9	1.960	2.826	11.5	21.3	11 27	6 43.53	+36 50.7	2.470	3.317	10.2	20.5
12 7	6 35.89	+23 39.3	1.902	2.834	7.9	21.1	12 7	6 36.29	+37 27.8	2.403	3.315	7.6	20.4
12 17	6 26.92	+23 35.9	1.870	2.842	3.8	20.9	12 17	6 27.16	+37 55.8	2.362	3.313	5.2	20.2
12 27	6 17.04	+23 30.4	1.867	2.850	0.5	20.6	12 27	6 17.04	+38 10.9	2.351	3.311	4.4	20.1
1 6	6 7.41	+23 22.6	1.894	2.858	4.7	21.0	1 6	6 7.01	+38 11.7	2.369	3.309	5.9	20.2
1 16	5 59.10	+23 13.2	1.949	2.866	8.7	21.2	1 16	5 58.13	+37 59.2	2.416	3.306	8.5	20.4
1 26	5 52.94	+23 3.3	2.030	2.873	12.1	21.5	1 26	5 51.27	+37 36.0	2.488	3.304	11.0	20.6
416484	2003 WP ₁₂₇	12 25.8 343°00'			0°8/25.6 18		309585	2008 AQ ₁₀₅	12 25.8 91°33'			0°3/25.8 18	
11 17	6 51.18	+27 57.9	1.765	2.547	16.4	19.3	11 17	6 47.77	+22 28.5	1.901	2.682	15.4	20.8
11 27	6 46.28	+26 29.8	1.666										

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
109981	2001 <i>SF</i> ₅₅	12 25.8	181°68	7°8/26.6	18		65394	2002 <i>RC</i> ₆₂	12 25.8	180°93	7°0/26.5	18	
11 17	6 44.46	+ 1 3.0	2.216	2.942	15.1	19.7	11 17	6 45.34	+ 4 9.7	2.094	2.833	15.5	19.6
11 27	6 40.24	+ 0 12.6	2.132	2.942	12.9	19.5	11 27	6 41.08	+ 3 25.7	2.009	2.834	13.0	19.4
12 7	6 33.91	- 0 24.0	2.069	2.942	10.6	19.4	12 7	6 34.57	+ 2 54.5	1.945	2.834	10.4	19.3
12 17	6 25.97	- 0 43.2	2.029	2.942	8.6	19.3	12 17	6 26.33	+ 2 39.3	1.905	2.834	8.0	19.1
12 27	6 17.21	- 0 42.4	2.017	2.942	7.8	19.2	12 27	6 17.21	+ 2 42.3	1.892	2.834	7.0	19.1
1 6	6 8.55	- 0 21.3	2.031	2.941	8.7	19.3	1 6	6 8.19	+ 3 3.5	1.908	2.833	8.2	19.1
1 16	6 0.88	+ 0 18.1	2.073	2.941	10.8	19.4	1 16	6 0.24	+ 3 41.1	1.950	2.833	10.6	19.3
1 26	5 54.96	+ 1 12.3	2.138	2.940	13.1	19.6	1 26	5 54.16	+ 4 31.7	2.017	2.832	13.3	19.5
51587	2001 <i>HY</i> ₁₂	12 25.8	216°89	0°6/25.9	18		354400	2003 <i>UA</i> ₆₆	12 25.8	40°73	3°5/25.1	18	
11 17	6 47.66	+21 29.1	1.930	2.709	15.3	20.1	11 17	6 49.99	+26 10.8	1.445	2.244	18.6	20.2
11 27	6 43.33	+21 29.4	1.840	2.707	12.1	19.9	11 27	6 46.20	+27 35.8	1.381	2.258	14.7	20.0
12 7	6 36.33	+21 32.5	1.772	2.704	8.3	19.7	12 7	6 38.84	+29 5.3	1.337	2.272	10.2	19.8
12 17	6 27.24	+21 37.3	1.730	2.702	4.1	19.4	12 17	6 28.62	+30 32.0	1.318	2.287	5.6	19.5
12 27	6 17.04	+21 42.3	1.716	2.699	0.8	19.2	12 27	6 16.90	+31 47.6	1.326	2.303	3.7	19.5
1 6	6 6.96	+21 46.6	1.732	2.696	5.1	19.5	1 6	6 5.44	+32 46.5	1.362	2.319	7.2	19.7
1 16	5 58.18	+21 50.2	1.776	2.693	9.3	19.7	1 16	5 55.89	+33 27.3	1.423	2.336	11.5	20.0
1 26	5 51.65	+21 53.7	1.845	2.690	13.0	19.9	1 26	5 49.49	+33 52.5	1.508	2.353	15.4	20.3
49432	1998 <i>YD</i>	12 25.8	305°55	3°1/26.3	18		402747	2006 <i>XF</i> ₃₂	12 25.8	77°59	1°6/25.6	18	
11 17	6 54.37	+34 35.9	1.879	2.647	16.0	17.7	11 17	6 48.02	+25 33.1	1.950	2.731	15.1	21.6
11 27	6 48.81	+34 8.7	1.786	2.643	12.9	17.4	11 27	6 43.65	+26 9.2	1.871	2.738	11.9	21.4
12 7	6 40.10	+33 31.1	1.715	2.639	9.3	17.2	12 7	6 36.57	+26 47.0	1.813	2.745	8.2	21.2
12 17	6 29.00	+32 39.6	1.670	2.635	5.3	17.0	12 17	6 27.37	+27 23.1	1.781	2.752	4.1	20.9
12 27	6 16.82	+31 33.1	1.654	2.631	3.1	16.8	12 27	6 17.09	+27 53.9	1.779	2.760	1.7	20.8
1 6	6 5.06	+30 13.8	1.668	2.627	5.9	17.0	1 6	6 6.97	+28 17.1	1.805	2.767	5.2	21.0
1 16	5 55.10	+28 47.0	1.711	2.623	9.9	17.2	1 16	5 58.22	+28 32.2	1.860	2.774	9.1	21.3
1 26	5 47.92	+27 19.2	1.779	2.620	13.6	17.4	1 26	5 51.78	+28 40.8	1.939	2.782	12.6	21.5
518510	2006 <i>HG</i> ₇₅	12 25.8	209°97	0°8/25.9	18		451121	2009 <i>HW</i> ₁₀₂	12 25.8	251°67	4°8/25.8	17	
11 17	6 48.90	+19 4.0	2.182	2.948	14.2	22.7	11 17	6 46.34	+11 24.7	2.185	2.941	14.4	21.9
11 27	6 44.05	+19 27.7	2.084	2.942	11.3	22.5	11 27	6 41.95	+10 39.2	2.080	2.926	11.8	21.6
12 7	6 36.73	+19 57.5	2.008	2.936	7.8	22.3	12 7	6 35.26	+ 9 59.9	1.998	2.910	8.9	21.4
12 17	6 27.43	+20 31.6	1.958	2.929	3.9	22.1	12 17	6 26.73	+ 9 29.2	1.941	2.893	6.0	21.2
12 27	6 17.01	+21 7.7	1.939	2.922	0.9	21.8	12 27	6 17.17	+ 9 9.0	1.913	2.876	4.8	21.1
1 6	6 6.58	+21 43.5	1.951	2.914	4.7	22.1	1 6	6 7.60	+ 9 0.5	1.914	2.859	6.7	21.2
1 16	5 57.21	+22 17.5	1.992	2.906	8.7	22.3	1 16	5 59.00	+ 9 3.6	1.944	2.842	9.8	21.4
1 26	5 49.85	+22 49.2	2.059	2.897	12.2	22.5	1 26	5 52.26	+ 9 17.3	1.998	2.824	13.0	21.5
393859	2005 <i>SN</i> ₂₂₅	12 25.8	351°61	18°8/17.6	18		170006	Stoughton	12 25.8	134°79	4°5/26.4	18	
11 17	6 35.89	+ 5 59.0	0.872	1.706	25.1	18.7	11 17	6 42.82	+ 8 17.8	2.597	3.341	12.7	21.1
11 27	6 36.21	+ 1 21.6	0.810	1.688	22.2	18.5	11 27	6 38.64	+ 7 55.9	2.511	3.346	10.4	21.0
12 7	6 32.62	- 3 16.1	0.768	1.673	19.8	18.2	12 7	6 32.67	+ 7 42.9	2.448	3.351	7.9	20.8
12 17	6 25.80	- 7 29.8	0.745	1.660	18.8	18.1	12 17	6 25.35	+ 7 40.3	2.411	3.356	5.5	20.7
12 27	6 17.23	-10 54.2	0.743	1.651	19.6	18.1	12 27	6 17.38	+ 7 48.7	2.402	3.360	4.5	20.6
1 6	6 8.84	-13 13.2	0.758	1.645	21.9	18.2	1 6	6 9.51	+ 8 7.8	2.424	3.364	5.8	20.7
1 16	6 2.50	-14 22.9	0.788	1.643	24.7	18.4	1 16	6 2.49	+ 8 36.4	2.474	3.368	8.1	20.9
1 26	5 59.61	-14 31.1	0.831	1.644	27.5	18.6	1 26	5 56.96	+ 9 12.3	2.550	3.372	10.6	21.0
141793	2002 <i>NK</i> ₂₃	12 25.8	199°78	0°5/25.8	18		523430	2017 <i>EK</i> ₂₄	12 25.8	184°02	0°2/25.8	17	
11 17	6 52.65	+23 1.6	1.852	2.625	16.1	20.9	11 17	6 45.94	+23 20.7	2.703	3.467	11.8	22.6
11 27	6 47.39	+22 46.3	1.759	2.622	12.8	20.7	11 27	6 41.19	+23 32.2	2.609	3.467	9.3	22.4
12 7	6 39.17	+22 31.3	1.687	2.618	8.8	20.4	12 7	6 34.47	+23 45.0	2.538	3.467	6.3	22.2
12 17	6 28.64	+22 15.3	1.642	2.613	4.3	20.1	12 17	6 26.25	+23 57.6	2.494	3.466	3.0	22.0
12 27	6 16.88	+21 57.5	1.625	2.608	0.8	19.9	12 27	6 17.26	+24 8.5	2.482	3.465	0.5	21.8
1 6	6 5.28	+21 38.1	1.638	2.602	5.4	20.2	1 6	6 8.34	+24 16.8	2.501	3.464	3.9	22.0
1 16	5 55.14	+21 18.3	1.680	2.596	9.9	20.4	1 16	6 0.34	+24 22.5	2.549	3.462	7.1	22.3
1 26	5 47.53	+21 0.1	1.747	2.588	13.8	20.7	1 26	5 53.95	+24 26.1	2.625	3.460	9.9	22.4
306794	2001 <i>MO</i> ₂₁	12 25.8	73°53	0°1/25.8	18		125068	2001 <i>TR</i> ₂₄₀	12 25.8	244°99	4°0/25.6	18	
11 17	6 48.73	+21 2.6	1.833	2.613	16.0	20.4	11 17	6 51.70	+31 50.3	1.678	2.462	17.1	20.0
11 27	6 44.17	+21 39.7	1.762	2.629	12.5	20.2	11 27	6 47.36	+32 25.3	1.592	2.458	13.7	19.8
12 7	6 36.87	+22 22.2	1.712	2.645	8.5	20.0	12 7	6 39.57	+32 57.1	1.526	2.454	9.9	19.5
12 17	6 27.47	+23 7.1	1.689	2.661	4.1	19.7	12 17	6 28.99	+33 20.1	1.485	2.449	5.9	19.3
12 27	6 17.04	+23 50.9	1.694	2.678	0.6	19.5	12 27	6 16.89	+33 29.3	1.471	2.445	4.1	19.2
1 6	6 6.87	+24 30.6	1.729	2.694	5.1	19.9	1 6	6 4.93	+33 22.5	1.485	2.441	7.0	19.3
1 16	5 58.14	+25 4.8	1.792	2.710	9.2	20.1	1 16	5 54.73	+33 1.4	1.526	2.436	11.1	19.5
1 26	5 51.79	+25 33.5	1.880	2.726	12.8	20.4	1 26	5 47.52	+32 30.6	1.590	2.432	14.9	19.8
231210	2005 <i>WQ</i> ₃₃	12 25.8	13°16	0°3/25.8	18		280700	2005 <i>GS</i> ₂₈	12 25.8	257°46	5°3/25.1	18	
11 17	6 45.95	+25 4.2	1.182	2.002	20.7	20.1	11 17	6 48.90	+39 3.8	2.575	3.327	12.6	20.9
11 27	6 43.47	+24 48.7	1.115	2.005	16.4	19.8	11 27	6 44.16	+39 53.7	2.481	3.319	10.4	20.7
12 7	6 37.14	+24 32.6	1.067	2.010	11.2	19.6	12 7	6 36.87	+40 37.6	2.409	3.312	8.0	20.6
12 17	6 27.80	+24 14.0	1.041	2.015	5.4	19.3	12 17	6 27.54	+41 10.6	2.364	3.304	6.0	20.4
12 27	6 17.00	+23 51.7	1.039	2.022	0.8	18.9	12 27	6 17.09	+41 28.5	2.347	3.296	5.3	20.4
1 6	6 6.66	+23 26.4	1.062	2.030	6.8	19.4	1 6	6 6.69	+41 29.4	2.360	3.288	6.7	20.5
1 16	5 58.48	+23 0.4	1.109	2.038	12.3	19.7	1 16	5 57.45	+41 14.3	2.400	3.280	9.0	20.6
1 26	5 53.69	+22 36.7	1.177	2.048	17.0	20.0	1 26	5 50.33	+40 46.4	2.465	3.272	11.4	20.7
436059	2009 <i>RE</i> ₅₄	12 25.8	39°03	5°7/26.2	18		107743	2001 <i>FN</i> ₃₃	12 25.8	245°90	1°5/25.7	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
128447	2004 <i>NZ</i> ₂₁		12 25.8 151°84	1°2/25.8	18		510531	2012 <i>FR</i> ₃₄		12 25.8 148°95	3°8/25.5	18	
11 17	6 52.43	+26 45.5	1.946	2.718	15.4	20.7	11 17	6 55.60	+30 22.5	1.672	2.449	17.4	22.1
11 27	6 47.03	+26 47.7	1.864	2.726	12.2	20.5	11 27	6 50.31	+31 11.1	1.594	2.457	13.9	21.9
12 7	6 38.81	+26 48.5	1.803	2.733	8.4	20.2	12 7	6 41.51	+31 58.4	1.537	2.464	9.9	21.6
12 17	6 28.44	+26 45.1	1.768	2.739	4.2	20.0	12 17	6 29.91	+32 38.0	1.506	2.471	5.7	21.4
12 27	6 17.02	+26 35.7	1.763	2.745	1.3	19.8	12 27	6 16.85	+33 4.2	1.503	2.477	3.9	21.3
1 6	6 5.89	+26 19.9	1.787	2.750	5.2	20.1	1 6	6 4.04	+33 14.2	1.528	2.483	6.9	21.5
1 16	5 56.26	+25 59.3	1.840	2.755	9.2	20.3	1 16	5 53.08	+33 9.1	1.580	2.488	11.0	21.8
1 26	5 49.09	+25 36.3	1.919	2.759	12.8	20.6	1 26	5 45.20	+32 53.3	1.657	2.492	14.7	22.0
97031	1999 <i>UW</i> ₂		12 25.8 311°19	8°6/24.4	18		372191	2008 <i>TC</i> ₉₉		12 25.8 111°50	4°8/25.3	18	
11 17	6 52.42	+40 13.8	1.680	2.454	17.5	18.2	11 17	6 49.03	+36 36.4	2.423	3.182	13.1	21.0
11 27	6 48.70	+41 44.6	1.596	2.445	14.7	18.0	11 27	6 44.24	+37 25.6	2.340	3.186	10.7	20.8
12 7	6 41.02	+43 9.6	1.532	2.436	11.7	17.8	12 7	6 36.88	+38 9.5	2.280	3.191	8.0	20.7
12 17	6 29.93	+44 18.8	1.492	2.427	9.3	17.6	12 17	6 27.54	+38 43.4	2.246	3.195	5.6	20.5
12 27	6 16.80	+45 3.0	1.478	2.419	8.7	17.6	12 27	6 17.17	+39 3.2	2.242	3.199	4.8	20.5
1 6	6 3.59	+45 17.3	1.489	2.411	10.4	17.6	1 6	6 6.94	+39 7.4	2.266	3.203	6.3	20.6
1 16	5 52.32	+45 3.1	1.525	2.403	13.3	17.8	1 16	5 57.96	+38 56.8	2.318	3.207	8.9	20.8
1 26	5 44.55	+44 27.0	1.583	2.395	16.4	18.0	1 26	5 51.15	+38 34.7	2.396	3.211	11.4	20.9
209815	2005 <i>GC</i> ₈₆		12 25.8 167°56	4°2/26.2	18		96830	1999 <i>RW</i> ₁₈₉		12 25.8 41°28	3°0/25.6	18	
11 17	6 46.77	+11 2.2	2.315	3.065	13.9	21.0	11 17	6 49.32	+28 23.2	1.533	2.329	17.9	19.6
11 27	6 41.98	+10 37.5	2.227	3.070	11.3	20.9	11 27	6 45.50	+29 3.8	1.462	2.337	14.2	19.4
12 7	6 35.08	+10 20.7	2.162	3.073	8.3	20.7	12 7	6 38.26	+29 44.3	1.411	2.345	9.9	19.1
12 17	6 26.58	+10 13.3	2.123	3.076	5.5	20.5	12 17	6 28.34	+30 19.4	1.384	2.354	5.4	18.9
12 27	6 17.28	+10 15.8	2.113	3.079	4.2	20.4	12 27	6 17.07	+30 44.1	1.384	2.363	3.1	18.8
1 6	6 8.10	+10 28.1	2.133	3.081	5.9	20.6	1 6	6 6.09	+30 56.0	1.412	2.372	6.6	19.0
1 16	5 59.94	+10 49.1	2.182	3.082	8.8	20.7	1 16	5 56.95	+30 55.8	1.465	2.382	11.0	19.3
1 26	5 53.54	+11 17.2	2.257	3.083	11.6	20.9	1 26	5 50.80	+30 46.7	1.542	2.392	14.9	19.6
362523	2010 <i>TN</i> ₁₁₆		12 25.8 136°09	3°1/25.5	17		323997	2005 <i>UC</i> ₂₄₁		12 25.8 111°10	2°8/26.1	18	
11 17	6 49.42	+30 47.6	2.116	2.888	14.4	21.1	11 17	6 45.56	+15 7.1	2.166	2.932	14.2	20.9
11 27	6 44.70	+31 23.7	2.032	2.892	11.4	20.9	11 27	6 41.21	+14 52.6	2.083	2.939	11.4	20.7
12 7	6 37.27	+31 57.5	1.971	2.896	8.1	20.8	12 7	6 34.65	+14 44.3	2.022	2.946	8.1	20.5
12 17	6 27.73	+32 24.9	1.936	2.900	4.7	20.6	12 17	6 26.40	+14 42.7	1.988	2.952	4.7	20.3
12 27	6 17.12	+32 42.2	1.929	2.904	3.2	20.5	12 27	6 17.34	+14 47.8	1.983	2.959	2.9	20.2
1 6	6 6.67	+32 47.7	1.953	2.907	5.7	20.6	1 6	6 8.44	+14 59.0	2.007	2.965	5.2	20.4
1 16	5 57.57	+32 42.0	2.004	2.911	9.1	20.8	1 16	6 0.65	+15 15.5	2.060	2.971	8.6	20.6
1 26	5 50.76	+32 28.0	2.081	2.914	12.2	21.0	1 26	5 54.73	+15 36.3	2.139	2.977	11.7	20.8
118871	2000 <i>TZ</i> ₁₂		12 25.8 0°26	3°3/25.6	17		346833	2009 <i>DT</i> ₁₅		12 25.8 22°57	1°0/25.9	18	
11 17	6 47.28	+30 37.2	1.817	2.603	15.8	19.6	11 17	6 44.59	+20 10.6	1.208	2.026	20.5	20.0
11 27	6 43.49	+31 9.3	1.734	2.602	12.7	19.4	11 27	6 42.14	+20 18.1	1.148	2.037	16.2	19.7
12 7	6 36.71	+31 39.0	1.672	2.602	9.0	19.2	12 7	6 36.12	+20 32.5	1.108	2.049	11.1	19.5
12 17	6 27.55	+32 1.9	1.635	2.602	5.2	19.0	12 17	6 27.32	+20 52.2	1.089	2.063	5.4	19.2
12 27	6 17.15	+32 14.1	1.626	2.602	3.4	18.9	12 27	6 17.22	+21 14.4	1.095	2.078	1.2	19.0
1 6	6 6.92	+32 13.7	1.645	2.602	6.2	19.0	1 6	6 7.56	+21 36.9	1.126	2.094	6.5	19.4
1 16	5 58.20	+32 1.8	1.691	2.604	10.0	19.3	1 16	5 59.92	+21 58.2	1.182	2.111	11.7	19.7
1 26	5 52.07	+31 41.7	1.761	2.605	13.6	19.5	1 26	5 55.42	+22 18.3	1.259	2.129	16.2	20.0
358325	2006 <i>VL</i> ₁₆		12 25.8 88°60	3°2/25.5	18		83884	2001 <i>UW</i> ₁₂₃		12 25.8 193°03	4°7/26.6	18	
11 17	6 50.48	+30 17.0	1.969	2.744	15.2	21.3	11 17	6 45.66	+ 7 41.7	2.456	3.195	13.5	20.1
11 27	6 45.60	+30 57.2	1.897	2.759	12.1	21.1	11 27	6 41.06	+ 7 27.4	2.362	3.194	11.1	19.9
12 7	6 37.89	+31 35.3	1.846	2.773	8.5	20.9	12 7	6 34.45	+ 7 23.3	2.290	3.191	8.4	19.7
12 17	6 28.02	+32 6.6	1.822	2.787	4.9	20.7	12 17	6 26.31	+ 7 30.8	2.244	3.189	5.9	19.5
12 27	6 17.10	+32 27.4	1.826	2.801	3.2	20.7	12 27	6 17.35	+ 7 50.6	2.227	3.186	4.7	19.5
1 6	6 6.47	+32 35.8	1.859	2.815	5.8	20.9	1 6	6 8.45	+ 8 21.8	2.240	3.182	6.1	19.5
1 16	5 57.34	+32 32.6	1.921	2.828	9.3	21.1	1 16	6 0.43	+ 9 2.6	2.283	3.178	8.7	19.7
1 26	5 50.68	+32 21.0	2.007	2.842	12.5	21.3	1 26	5 54.04	+ 9 50.7	2.351	3.173	11.4	19.9
170481	2003 <i>UH</i> ₂₆₈		12 25.8 297°68	5°9/25.8	18		520683	2014 <i>QJ</i> ₄₅₉		12 25.8 245°73	2°4/26.1	17	
11 17	6 45.99	+10 49.6	1.786	2.556	16.7	20.1	11 17	6 46.63	+16 8.7	2.247	3.011	13.9	22.0
11 27	6 42.06	+ 9 51.1	1.700	2.552	13.7	19.9	11 27	6 42.21	+16 0.5	2.141	2.997	11.1	21.8
12 7	6 35.51	+ 9 0.6	1.635	2.549	10.3	19.7	12 7	6 35.48	+15 57.9	2.058	2.982	7.9	21.6
12 17	6 26.91	+ 8 21.4	1.595	2.546	7.2	19.5	12 17	6 26.90	+16 1.1	2.001	2.967	4.4	21.4
12 27	6 17.24	+ 7 56.5	1.581	2.543	5.9	19.4	12 27	6 17.27	+16 9.7	1.973	2.952	2.4	21.2
1 6	6 7.71	+ 7 47.2	1.596	2.540	7.8	19.5	1 6	6 7.59	+16 23.2	1.976	2.936	5.1	21.3
1 16	5 59.46	+ 7 53.1	1.636	2.537	11.2	19.7	1 16	5 58.88	+16 40.8	2.007	2.919	8.8	21.5
1 26	5 53.43	+ 8 12.3	1.701	2.534	14.5	19.9	1 26	5 52.02	+17 1.8	2.065	2.902	12.1	21.7
457062	2008 <i>EJ</i> ₂₃		12 25.8 251°36	4°8/26.6	18		329167	2012 <i>CX</i> ₁₄		12 25.8 335°67	2°5/26.1	17	
11 17	6 45.52	+ 7 56.9	2.363	3.106	13.8	21.8	11 17	6 43.43	+16 42.1	1.666	2.458	16.8	21.2
11 27	6 41.18	+ 7 46.2	2.254	3.089	11.4	21.6	11 27	6 40.49	+16 39.3	1.575	2.448	13.5	20.9
12 7	6 34.70	+ 7 46.3	2.168	3.072	8.7	21.4	12 7	6 34.72	+16 44.5	1.506	2.438	9.5	20.7
12 17	6 26.50	+ 7 58.6	2.107	3.054	6.1	21.2	12 17	6 26.65	+16 57.5	1.460	2.430	5.2	20.4
12 27	6 17.30	+ 8 23.9	2.076	3.036	4.8	21.1	12 27	6 17.30	+17 17.7	1.442	2.422	2.5	20.2
1 6	6 8.01	+ 9 1.4	2.074	3.018	6.3	21.2	1 6	6 7.98	+17 43.5	1.450	2.414	6.0	20.4
1 16	5 59.57	+ 9 49.1	2.101	2.999	9.2	21.3	1 16	5 59.97	+18 13.2	1.486	2.407	10.4	20.6
1 26	5 52.79	+10 44.4	2.154	2.980	12.1	21.5	1 26	5 54.36	+18 45.5	1.544	2.401	14.5	20.9
165638	2001 <i>FH</i> ₁₉₂		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
88664	2001 <i>RK</i> ₇₇		12 25.8	25°21'	2°4/26.0	18	146673	2001 <i>UM</i> ₂₀₄		12 25.9	82°41'	0°7/25.9	18
11 17	6 45.80	+18 17.7	1.238	2.050	20.4	18.8	11 17	6 47.76	+21 41.7	1.957	2.735	15.1	20.6
272217	2005 <i>QC</i> ₄₆		12 25.9	71°30'	2°5/25.7	18	487507	2014 <i>TM</i> ₈		12 25.9	121°60'	0°8/25.9	17
11 17	6 54.49	+27 44.9	1.438	2.229	19.1	20.9	11 17	6 46.02	+21 18.7	2.328	3.098	13.3	20.9
444761	2007 <i>RK</i> ₁₉₅		12 25.9	116°83'	2°1/25.7	15	219270	2000 <i>AL</i> ₂₀₇		12 25.9	353°01'	1°3/25.8	18
11 17	6 53.07	+28 57.1	2.130	2.895	14.5	23.2	11 17	6 46.69	+25 58.2	1.223	2.039	20.3	20.1
67434	2000 <i>QZ</i> ₁₁₉		12 25.9	205°51'	1°6/25.9	18	515289	2012 <i>TD</i> ₂₃₇		12 25.9	144°81'	0°2/25.8	18
11 17	6 52.60	+19 48.1	1.803	2.575	16.5	20.6	11 17	6 51.15	+22 28.3	1.843	2.619	16.0	22.1
124808	2001 <i>SH</i> ₂₈₀		12 25.9	129°86'	0°0/25.9	18	340867	2007 <i>BM</i> ₄₉		12 25.9	265°96'	1°7/25.8	18
11 17	6 51.98	+22 24.2	1.908	2.680	15.7	20.4	11 17	6 50.18	+21 8.1	1.709	2.491	16.8	20.9
277319	2005 <i>ST</i> ₂₁₇		12 25.9	53°38'	4°0/26.2	18	223528	2004 <i>DO</i> ₄₁		12 25.9	253°12'	2°2/25.6	18
11 17	6 47.99	+14 48.9	1.407	2.200	19.3	20.3	11 17	6 50.93	+26 44.4	1.624	2.412	17.4	20.2
227234	2005 <i>SR</i> ₅		12 25.9	113°34'	0°4/25.9	18 R	437923	2002 <i>NB</i> ₇₀		12 25.9	95°72'	1°7/25.9	15
11 17	6 52.71	+22 17.7	1.755	2.531	16.7	20.8	11 17	6 52.19	+19 57.3	2.112	2.874	14.7	21.8
222007	1998 <i>QX</i> ₅₉		12 25.9	71°41'	0°1/25.9	18	124637	2001 <i>SV</i> ₆₅		12 25.9	27°64'	1°0/25.9	18
11 17	6 46.68	+22 36.7	2.132	2.908	14.1	20.7	11 17	6 45.70	+19 29.9	1.068	1.893	22.1	18.4
384346	2009 <i>TO</i> ₂₇		12 25.9	64°65'	0°6/25.8	16	175563	Amyrose		12 25.9	185°10'	1°4/25.6	18
11 17	6 53.31	+22 0.2	1.345	2.141	19.9	20.7	11 17	6 49.74	+24 47.7	2.352	3.116	13.3	20.6

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
475226	2005 VX ₁₀₉	12 25.9 344 ^o 11	1 ^o 9/25.7 18				495377	2014 OA ₃₃₅	12 25.9 134 ^o 83	0 ^o 2/25.9 18			
11 17	6 45.22	+25 12.1	1.250	2.068	19.9	21.3	11 17	6 47.65	+21 25.5	2.175	2.946	14.0	22.1
11 27	6 43.15	+25 42.3	1.171	2.059	15.9	21.0	11 27	6 43.03	+21 41.2	2.090	2.952	11.1	21.9
12 7	6 37.26	+26 16.3	1.110	2.051	11.0	20.7	12 7	6 36.03	+22 0.4	2.028	2.958	7.6	21.7
12 17	6 28.17	+26 49.7	1.071	2.045	5.6	20.4	12 17	6 27.22	+22 21.2	1.993	2.964	3.7	21.5
12 27	6 17.24	+27 17.6	1.057	2.039	2.0	20.1	12 27	6 17.47	+22 41.7	1.987	2.970	0.5	21.3
1 6	6 6.39	+27 36.4	1.068	2.034	7.1	20.4	1 6	6 7.87	+23 0.4	2.012	2.976	4.5	21.6
1 16	5 57.47	+27 45.7	1.103	2.030	12.6	20.7	1 16	5 59.43	+23 16.7	2.065	2.981	8.3	21.8
1 26	5 51.94	+27 47.5	1.159	2.028	17.4	21.0	1 26	5 52.99	+23 30.9	2.145	2.986	11.6	22.0
523385	2017 DF ₂₈	12 25.9 152 ^o 08	1 ^o 0/25.9 18				326556	2002 PR ₁₃₅	12 25.9 130 ^o 14	5 ^o 4/27.1 18			
11 17	6 47.33	+20 40.6	2.185	2.956	14.0	21.7	11 17	6 43.78	+ 3 6.5	2.858	3.576	12.2	21.2
11 27	6 42.71	+20 32.5	2.098	2.960	11.1	21.6	11 27	6 39.21	+ 2 49.7	2.778	3.588	10.2	21.0
12 7	6 35.75	+20 26.9	2.034	2.964	7.6	21.3	12 7	6 33.02	+ 2 44.1	2.720	3.600	8.1	20.9
12 17	6 27.02	+20 23.0	1.996	2.967	3.8	21.1	12 17	6 25.64	+ 2 51.2	2.688	3.612	6.2	20.8
12 27	6 17.42	+20 20.3	1.988	2.970	1.1	20.9	12 27	6 17.68	+ 3 11.7	2.685	3.624	5.4	20.8
1 6	6 7.98	+20 18.2	2.010	2.973	4.6	21.2	1 6	6 9.86	+ 3 44.7	2.711	3.635	6.2	20.8
1 16	5 59.70	+20 17.0	2.061	2.976	8.3	21.4	1 16	6 2.82	+ 4 28.6	2.767	3.645	8.0	21.0
1 26	5 53.38	+20 17.2	2.138	2.979	11.6	21.6	1 26	5 57.14	+ 5 20.8	2.849	3.656	10.0	21.1
287472	2003 AJ ₅₃	12 25.9 7 ^o 70	0 ^o 6/25.8 18				413320	2003 UJ ₃₈₉	12 25.9 32 ^o 45	3 ^o 5/26.1 17			
11 17	6 45.70	+22 52.4	1.614	2.411	17.1	20.1	11 17	6 44.02	+14 50.6	1.994	2.769	15.0	21.1
11 27	6 42.44	+23 18.9	1.535	2.412	13.5	19.8	11 27	6 40.22	+14 19.0	1.916	2.776	12.0	21.0
12 7	6 36.13	+23 49.8	1.476	2.413	9.3	19.6	12 7	6 34.11	+13 53.5	1.860	2.784	8.6	20.8
12 17	6 27.39	+24 22.1	1.442	2.415	4.5	19.3	12 17	6 26.28	+13 35.4	1.829	2.792	5.2	20.6
12 27	6 17.37	+24 52.6	1.434	2.417	0.9	19.0	12 27	6 17.61	+13 25.5	1.826	2.800	3.5	20.5
1 6	6 7.49	+25 18.6	1.455	2.420	5.6	19.4	1 6	6 9.15	+13 24.0	1.852	2.809	5.7	20.6
1 16	5 59.14	+25 39.0	1.501	2.424	10.3	19.7	1 16	6 1.88	+13 30.3	1.906	2.818	9.1	20.9
1 26	5 53.40	+25 54.5	1.572	2.428	14.3	19.9	1 26	5 56.57	+13 43.5	1.985	2.827	12.3	21.1
169727	2002 NM ₃₄	12 25.9 138 ^o 73	3 ^o 4/26.2 18				312286	2008 BR ₂₀	12 25.9 325 ^o 37	6 ^o 3/27.2 17			
11 17	6 48.16	+13 34.6	2.224	2.980	14.2	21.1	11 17	6 43.27	+ 6 45.6	1.586	2.360	18.3	19.9
11 27	6 43.14	+13 14.5	2.143	2.992	11.4	20.9	11 27	6 40.57	+ 6 42.4	1.491	2.343	15.3	19.7
12 7	6 35.93	+13 1.3	2.085	3.003	8.2	20.8	12 7	6 34.98	+ 6 57.2	1.414	2.327	11.7	19.4
12 17	6 27.07	+12 55.6	2.053	3.013	5.0	20.6	12 17	6 26.97	+ 7 32.9	1.360	2.311	8.2	19.2
12 27	6 17.43	+12 57.8	2.051	3.023	3.4	20.5	12 27	6 17.50	+ 8 30.1	1.332	2.296	6.3	19.0
1 6	6 7.99	+13 7.5	2.078	3.032	5.4	20.6	1 6	6 7.89	+ 9 46.3	1.330	2.281	8.1	19.1
1 16	5 59.66	+13 23.7	2.135	3.041	8.6	20.9	1 16	5 59.49	+11 16.5	1.354	2.268	11.9	19.3
1 26	5 53.22	+13 45.3	2.218	3.049	11.6	21.1	1 26	5 53.50	+12 54.5	1.402	2.255	15.9	19.5
8263	1986 QT	12 25.9 162 ^o 17	0 ^o 8/25.9 18				129482	1994 GL ₄	12 25.9 12 ^o 57	4 ^o 2/26.1 18			
11 17	6 52.59	+20 27.3	1.774	2.548	16.6	18.5	11 17	6 43.11	+11 59.5	2.183	2.947	14.2	19.6
11 27	6 47.44	+20 34.1	1.691	2.554	13.2	18.2	11 27	6 39.35	+11 24.7	2.097	2.949	11.5	19.5
12 7	6 39.31	+20 45.6	1.629	2.559	9.1	18.0	12 7	6 33.45	+10 57.2	2.034	2.950	8.5	19.3
12 17	6 28.86	+20 59.8	1.592	2.564	4.5	17.7	12 17	6 25.96	+10 38.7	1.996	2.952	5.6	19.1
12 27	6 17.20	+21 14.7	1.585	2.568	1.0	17.5	12 27	6 17.65	+10 30.3	1.987	2.953	4.3	19.0
1 6	6 5.72	+21 28.8	1.607	2.571	5.5	17.8	1 6	6 9.48	+10 32.4	2.006	2.956	6.0	19.1
1 16	5 55.76	+21 41.6	1.657	2.573	9.9	18.1	1 16	6 2.33	+10 44.2	2.053	2.958	9.0	19.3
1 26	5 48.35	+21 53.6	1.732	2.575	13.8	18.3	1 26	5 56.96	+11 4.3	2.126	2.960	11.9	19.5
286797	2002 JB ₁₃₀	12 25.9 207 ^o 99	2 ^o 5/26.1 18				447581	2006 TO ₁₁₈	12 25.9 48 ^o 25	1 ^o 2/26.1 18			
11 17	6 47.94	+16 14.1	2.028	2.796	15.0	21.5	11 17	6 46.85	+18 45.0	1.712	2.498	16.7	21.1
11 27	6 43.44	+16 4.4	1.934	2.792	12.0	21.1	11 27	6 42.95	+18 58.3	1.638	2.508	13.2	20.9
12 7	6 36.42	+16 0.9	1.863	2.788	8.5	21.1	12 7	6 36.25	+19 18.3	1.586	2.518	9.1	20.7
12 17	6 27.44	+16 3.6	1.817	2.784	4.7	20.8	12 17	6 27.39	+19 43.5	1.558	2.529	4.6	20.5
12 27	6 17.40	+16 12.2	1.801	2.779	2.6	20.7	12 27	6 17.47	+20 11.7	1.558	2.540	1.3	20.3
1 6	6 7.41	+16 25.9	1.813	2.773	5.4	20.8	1 6	6 7.79	+20 40.8	1.587	2.552	5.4	20.6
1 16	5 58.59	+16 43.8	1.855	2.768	9.3	21.1	1 16	5 59.56	+21 9.3	1.642	2.563	9.7	20.9
1 26	5 51.84	+17 5.3	1.921	2.762	12.8	21.3	1 26	5 53.74	+21 36.6	1.723	2.575	13.4	21.1
491379	2012 BN ₈₉	12 25.9 353 ^o 78	8 ^o 9/26.6 17				361836	2008 DE ₁₁	12 25.9 105 ^o 63	2 ^o 0/26.2 18			
11 17	6 51.35	+43 44.0	1.479	2.258	19.2	21.1	11 17	6 46.55	+16 42.4	1.957	2.731	15.3	20.9
11 27	6 48.11	+44 16.8	1.402	2.252	16.2	20.9	11 27	6 42.42	+16 48.7	1.872	2.734	12.2	20.7
12 7	6 40.61	+44 34.2	1.343	2.247	13.0	20.7	12 7	6 35.76	+17 2.2	1.808	2.736	8.5	20.5
12 17	6 29.69	+44 27.5	1.306	2.243	10.1	20.5	12 17	6 27.15	+17 22.2	1.770	2.738	4.5	20.2
12 27	6 17.12	+43 50.2	1.293	2.240	8.9	20.4	12 27	6 17.50	+17 47.4	1.760	2.740	2.0	20.1
1 6	6 5.08	+42 42.2	1.304	2.238	10.3	20.5	1 6	6 7.97	+18 16.2	1.780	2.743	5.2	20.3
1 16	5 55.51	+41 9.8	1.340	2.238	13.3	20.7	1 16	5 59.64	+18 46.9	1.828	2.745	9.1	20.5
1 26	5 49.71	+39 23.3	1.399	2.239	16.7	20.9	1 26	5 53.43	+19 18.6	1.901	2.747	12.7	20.7
514606	2003 SU ₃₃₄	12 25.9 213 ^o 55	8 ^o 4/25.1 18				455092	2015 UJ ₆₈	12 25.9 82 ^o 89	1 ^o 4/26.0 18			
11 17	6 56.43	+43 22.4	1.920	2.670	16.4	21.5	11 17	6 47.64	+18 55.5	1.865	2.643	15.8	21.5
11 27	6 51.41	+44 36.4	1.837	2.667	13.8	21.3	11 27	6 43.32	+18 58.5	1.787	2.653	12.5	21.3
12 7	6 42.61	+45 41.1	1.776	2.664	11.2	21.2	12 7	6 36.37	+19 6.7	1.732	2.663	8.6	21.1
12 17	6 30.66	+46 27.4	1.738	2.661	9.1	21.0	12 17	6 27.41	+19 19.2	1.702	2.672	4.4	20.9
12 27	6 16.99	+46 47.9	1.727	2.658	8.5	21.0	12 27	6 17.48	+19 34.7	1.700	2.682	1.5	20.7
1 6	6 3.45	+46 39.6	1.743	2.655	9.8	21.1	1 6	6 7.76	+19 51.7	1.727	2.692	5.1	21.0
1 16	5 51.86	+46 5.1	1.784	2.651	12.3	21.2	1 16	5 59.40	+20 9.5	1.783	2.701	9.2	21.2
1 26	5 43.61	+45 11.3	1.848	2.647	14.9	21.4	1 26	5 53.29	+20 27.6	1.863	2.711	12.8	21.5
242999	2006 TN ₉₆												

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
46639	1995 <i>BN</i> ₄		12 25.9	5°67	7°2/26.1	18 R	316979	2001 <i>FK</i> ₁₈₄		12 25.9	215°17	4°6/26.3	18
11 17	6 49.91	+39 1.9	1.444	2.235	19.0	17.1	11 17	6 43.77	+9 10.4	2.434	3.182	13.3	21.6
11 27	6 46.73	+39 37.5	1.372	2.235	15.7	16.9	11 27	6 39.66	+8 42.1	2.341	3.180	10.9	21.4
12 7	6 39.54	+40 2.1	1.319	2.236	12.0	16.7	12 7	6 33.59	+8 22.4	2.271	3.177	8.3	21.3
12 17	6 29.18	+40 7.9	1.288	2.238	8.6	16.5	12 17	6 26.03	+8 12.9	2.226	3.173	5.8	21.1
12 27	6 17.25	+39 49.2	1.281	2.241	7.2	16.4	12 27	6 17.69	+8 14.8	2.211	3.170	4.6	21.0
1 6	6 5.80	+39 5.4	1.300	2.245	9.1	16.5	1 6	6 9.41	+8 27.8	2.224	3.167	6.0	21.1
1 16	5 56.61	+38 1.4	1.344	2.250	12.6	16.8	1 16	6 2.02	+8 51.1	2.266	3.163	8.7	21.3
1 26	5 50.97	+36 45.4	1.410	2.256	16.2	17.0	1 26	5 56.22	+9 22.8	2.334	3.159	11.3	21.4
44623	1999 <i>RP</i> ₅₅		12 25.9	349°40	3°3/26.3	18	228287	2000 <i>BE</i> ₃		12 25.9	295°52	0°7/25.9	18
11 17	6 44.29	+15 50.7	1.154	1.971	21.3	17.4	11 17	6 45.08	+20 37.5	2.220	2.994	13.7	20.3
11 27	6 42.37	+15 48.2	1.079	1.965	17.2	17.1	11 27	6 41.31	+20 44.9	2.103	2.967	10.9	20.1
12 7	6 36.72	+15 58.0	1.022	1.960	12.2	16.8	12 7	6 35.13	+20 56.2	2.009	2.940	7.6	19.8
12 17	6 27.94	+16 20.7	0.985	1.956	6.7	16.5	12 17	6 26.95	+21 10.4	1.941	2.912	3.8	19.5
12 27	6 17.39	+16 54.9	0.972	1.952	3.3	16.3	12 27	6 17.56	+21 26.1	1.902	2.885	0.8	19.2
1 6	6 6.94	+17 37.5	0.984	1.950	7.5	16.6	1 6	6 8.00	+21 41.9	1.893	2.857	4.7	19.5
1 16	5 58.39	+18 25.0	1.019	1.949	13.1	16.9	1 16	5 59.34	+21 57.1	1.912	2.830	8.8	19.7
1 26	5 53.15	+19 14.4	1.075	1.949	18.0	17.1	1 26	5 52.57	+22 11.6	1.958	2.802	12.4	19.8
219210	1999 <i>VA</i> ₆₃		12 25.9	72°43	4°0/26.0	18	48452	1991 <i>PH</i> ₇		12 25.9	71°26	1°9/25.8	18
11 17	6 45.36	+13 23.2	2.115	2.880	14.6	19.9	11 17	6 55.43	+26 31.0	1.407	2.198	19.4	19.6
11 27	6 41.07	+12 43.4	2.037	2.890	11.7	19.8	11 27	6 50.16	+26 54.7	1.354	2.226	15.3	19.4
12 7	6 34.59	+12 10.1	1.982	2.900	8.5	19.6	12 7	6 41.31	+27 18.3	1.320	2.254	10.4	19.2
12 17	6 26.48	+11 44.8	1.952	2.911	5.4	19.4	12 17	6 29.81	+27 37.0	1.311	2.282	5.2	19.0
12 27	6 17.61	+11 28.8	1.952	2.921	4.0	19.3	12 27	6 17.24	+27 47.1	1.328	2.310	2.0	18.9
1 6	6 8.96	+11 22.5	1.980	2.931	5.9	19.5	1 6	6 5.37	+27 47.4	1.373	2.337	6.3	19.2
1 16	6 1.44	+11 25.5	2.036	2.941	9.0	19.7	1 16	5 55.71	+27 39.5	1.445	2.364	10.9	19.6
1 26	5 55.82	+11 36.7	2.117	2.952	12.0	19.9	1 26	5 49.28	+27 26.8	1.540	2.391	14.9	19.9
394120	2006 <i>EB</i> ₂₅		12 25.9	332°97	2°0/26.0	18	449661	2014 <i>KS</i> ₇₇		12 25.9	148°91	4°8/26.6	18
11 17	6 44.59	+19 6.3	1.365	2.173	19.1	21.7	11 17	6 46.73	+8 14.1	2.350	3.091	13.9	22.4
11 27	6 42.16	+18 57.2	1.280	2.162	15.3	21.5	11 27	6 41.94	+7 52.7	2.267	3.100	11.4	22.2
12 7	6 36.34	+18 54.3	1.213	2.151	10.7	21.2	12 7	6 35.11	+7 41.2	2.205	3.108	8.6	22.1
12 17	6 27.69	+18 57.5	1.168	2.141	5.5	20.8	12 17	6 26.74	+7 41.3	2.170	3.116	6.0	21.9
12 27	6 17.43	+19 5.9	1.149	2.131	2.1	20.6	12 27	6 17.61	+7 53.5	2.164	3.123	4.8	21.9
1 6	6 7.20	+19 18.3	1.156	2.123	6.6	20.9	1 6	6 8.63	+8 17.2	2.188	3.129	6.2	22.0
1 16	5 58.61	+19 33.9	1.188	2.115	11.9	21.1	1 16	6 0.63	+8 50.8	2.240	3.135	8.8	22.1
1 26	5 52.97	+19 52.0	1.242	2.108	16.6	21.4	1 26	5 54.36	+9 32.0	2.318	3.141	11.5	22.3
389493	2010 <i>FR</i> ₅		12 25.9	146°41	1°6/26.1	18	421657	2014 <i>OB</i> ₃₆₃		12 25.9	235°81	1°6/25.8	17
11 17	6 48.98	+18 5.8	1.995	2.765	15.2	21.5	11 17	6 48.75	+27 23.8	2.039	2.816	14.7	21.8
11 27	6 44.23	+18 9.5	1.911	2.772	12.1	21.3	11 27	6 44.28	+27 35.5	1.947	2.812	11.7	21.6
12 7	6 36.94	+18 18.8	1.850	2.778	8.4	21.1	12 7	6 37.13	+27 46.0	1.877	2.807	8.1	21.4
12 17	6 27.69	+18 32.8	1.814	2.784	4.3	20.9	12 17	6 27.86	+27 52.8	1.832	2.803	4.1	21.1
12 27	6 17.45	+18 50.4	1.808	2.789	1.7	20.7	12 27	6 17.47	+27 53.2	1.817	2.798	1.7	20.9
1 6	6 7.38	+19 9.9	1.832	2.794	5.0	21.0	1 6	6 7.19	+27 46.4	1.831	2.794	5.1	21.2
1 16	5 58.55	+19 30.6	1.884	2.799	9.0	21.2	1 16	5 58.21	+27 33.2	1.874	2.789	9.0	21.4
1 26	5 51.89	+19 51.9	1.961	2.804	12.5	21.4	1 26	5 51.50	+27 16.0	1.941	2.784	12.6	21.6
97594	2000 <i>ET</i> ₃₇		12 25.9	333°57	9°4/26.6	18	387867	2004 <i>RY</i> ₁₂₈		12 25.9	185°84	3°4/26.2	18
11 17	6 40.79	+0 31.6	1.870	2.615	16.9	18.3	11 17	6 48.53	+14 39.1	1.827	2.599	16.3	22.0
11 27	6 38.01	-0 31.1	1.780	2.601	14.6	18.1	11 27	6 44.13	+14 20.9	1.741	2.599	13.1	21.7
12 7	6 32.85	-0 18.5	1.710	2.587	12.2	18.0	12 7	6 37.03	+14 10.3	1.675	2.599	9.4	21.5
12 17	6 25.79	-0 45.2	1.662	2.575	10.2	17.8	12 17	6 27.81	+14 8.1	1.634	2.598	5.5	21.3
12 27	6 17.68	-0 147.4	1.638	2.563	9.4	17.7	12 27	6 17.48	+14 14.5	1.622	2.597	3.5	21.2
1 6	6 9.57	-0 23.9	1.640	2.552	10.4	17.8	1 6	6 7.26	+14 28.7	1.638	2.596	6.1	21.3
1 16	6 2.50	-0 36.8	1.667	2.541	12.6	17.9	1 16	5 58.35	+14 49.7	1.682	2.595	10.1	21.5
1 26	5 57.39	+0 29.6	1.716	2.531	15.2	18.0	1 26	5 51.71	+15 16.1	1.750	2.593	13.7	21.8
460025	2014 <i>OR</i> ₁₅₁		12 25.9	60°58	0°9/25.8	18	78149	2002 <i>NN</i> ₂₄		12 25.9	13°84	0°9/25.9	18
11 17	6 47.67	+23 46.2	1.892	2.674	15.4	21.2	11 17	6 45.34	+21 29.9	2.236	3.011	13.6	19.0
11 27	6 43.50	+24 16.1	1.812	2.681	12.2	21.0	11 27	6 41.15	+21 12.8	2.147	3.011	10.8	18.8
12 7	6 36.61	+24 49.1	1.754	2.687	8.3	20.7	12 7	6 34.72	+20 57.1	2.081	3.012	7.4	18.6
12 17	6 27.59	+25 22.1	1.722	2.694	4.1	20.5	12 17	6 26.60	+20 42.2	2.041	3.012	3.7	18.4
12 27	6 17.48	+25 51.8	1.718	2.701	1.1	20.3	12 27	6 17.64	+20 28.1	2.031	3.013	1.0	18.2
1 6	6 7.53	+26 16.1	1.744	2.708	5.1	20.6	1 6	6 8.84	+20 14.8	2.050	3.014	4.5	18.4
1 16	5 58.94	+26 34.3	1.797	2.715	9.2	20.9	1 16	6 1.13	+20 2.9	2.098	3.015	8.1	18.7
1 26	5 52.67	+26 47.3	1.875	2.722	12.8	21.1	1 26	5 55.31	+19 53.2	2.173	3.016	11.4	18.9
323530	2004 <i>RG</i> ₁₇₆		12 25.9	66°68	2°7/25.9	18	442363	2011 <i>SN</i> ₂₄₅		12 25.9	65°35	4°8/26.3	17
11 17	6 49.87	+31 26.0	2.025	2.798	14.9	20.5	11 17	6 48.38	+12 13.6	1.659	2.433	17.6	21.6
11 27	6 45.01	+31 30.7	1.949	2.810	11.8	20.3	11 27	6 43.89	+11 39.0	1.598	2.455	14.2	21.4
12 7	6 37.46	+31 30.6	1.895	2.822	8.3	20.1	12 7	6 36.71	+11 14.4	1.557	2.477	10.3	21.2
12 17	6 27.91	+31 22.5	1.867	2.833	4.6	19.9	12 17	6 27.55	+11 1.6	1.541	2.499	6.6	21.0
12 27	6 17.46	+31 4.4	1.868	2.845	2.7	19.8	12 27	6 17.54	+11 1.5	1.552	2.521	4.8	21.0
1 6	6 7.37	+30 36.4	1.898	2.857	5.3	20.0	1 6	6 7.95	+11 13.4	1.591	2.543	6.9	21.1
1 16	5 58.77	+30 0.9	1.957	2.869	8.9	20.2	1 16	5 59.90	+11 35.7	1.656	2.565	10.4	21.4
1 26	5 52.55	+29 21.3	2.041	2.881	12.1	20.5	1 26	5 54.23	+12 5.9	1.746	2.588	13.8	21.7
256923	2008 <i>EC</i> ₁₃		12 25.9	115°96	1°8/25.7	18	331993	2005 <i>GY</i> ₂₁		12 25.9	208°73	3°1/26.3	

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
3695	Fiala		12 25.9	52°78	6°2/26.6	18	398466	2011 US ₁₁₂		12 25.9	60°93	2°6/26.0	18
11 17	6 49.70	+10 45.7	1.251	2.042	21.4	17.1	11 17	6 47.99	+17 51.9	1.701	2.484	16.9	20.8
11 27	6 45.65	+10 7.5	1.202	2.067	17.3	16.9	11 27	6 43.72	+17 25.4	1.632	2.499	13.4	20.6
12 7	6 38.23	+9 44.2	1.170	2.093	12.7	16.7	12 7	6 36.70	+17 3.9	1.583	2.513	9.4	20.4
12 17	6 28.35	+9 38.4	1.161	2.118	8.3	16.5	12 17	6 27.63	+16 47.9	1.559	2.528	5.1	20.2
12 27	6 17.47	+9 50.8	1.176	2.144	6.2	16.5	12 27	6 17.62	+16 37.6	1.563	2.542	2.6	20.1
1 6	6 7.20	+10 19.5	1.217	2.171	8.4	16.7	1 6	6 7.96	+16 33.0	1.596	2.557	5.8	20.3
1 16	5 58.96	+11 1.0	1.283	2.197	12.4	17.0	1 16	5 59.81	+16 34.1	1.655	2.572	9.9	20.6
1 26	5 53.69	+11 50.8	1.371	2.224	16.2	17.3	1 26	5 54.07	+16 40.4	1.739	2.587	13.5	20.8
37370	2001 VM ₉		12 25.9	46°80	0°3/25.9	18	383519	2007 CX ₅₂		12 25.9	300°65	2°7/26.2	18
11 17	6 47.54	+22 40.5	1.707	2.496	16.6	18.1	11 17	6 46.55	+16 40.9	1.449	2.245	18.7	21.0
11 27	6 43.46	+22 35.6	1.638	2.511	13.1	17.9	11 27	6 43.69	+16 39.8	1.352	2.227	15.1	20.7
12 7	6 36.56	+22 32.7	1.590	2.525	8.9	17.7	12 7	6 37.46	+16 48.0	1.275	2.208	10.8	20.4
12 17	6 27.54	+22 30.3	1.567	2.540	4.3	17.5	12 17	6 28.36	+17 5.9	1.220	2.190	5.9	20.1
12 27	6 17.56	+22 27.1	1.572	2.555	0.6	17.2	12 27	6 17.50	+17 32.4	1.192	2.172	2.7	19.9
1 6	6 7.93	+22 22.9	1.605	2.571	5.2	17.6	1 6	6 6.45	+18 5.3	1.190	2.155	6.8	20.1
1 16	5 59.87	+22 17.9	1.666	2.587	9.5	17.9	1 16	5 56.85	+18 42.5	1.214	2.138	12.0	20.3
1 26	5 54.26	+22 13.4	1.751	2.603	13.2	18.2	1 26	5 50.09	+19 22.0	1.260	2.121	16.8	20.5
102657	1999 VZ ₅₄		12 25.9	341°82	5°1/25.1	18	254910	2005 SK ₉₅		12 25.9	333°94	2°7/26.1	17
11 17	6 48.53	+34 23.3	1.978	2.754	15.1	19.4	11 17	6 45.06	+16 22.0	1.894	2.673	15.5	21.0
11 27	6 44.59	+35 24.0	1.892	2.750	12.2	19.2	11 27	6 41.39	+16 8.3	1.805	2.669	12.5	20.8
12 7	6 37.63	+36 21.7	1.828	2.747	9.1	19.0	12 7	6 35.18	+16 0.9	1.738	2.666	8.8	20.5
12 17	6 28.22	+37 10.2	1.789	2.744	6.1	18.8	12 17	6 26.97	+16 0.2	1.695	2.662	4.9	20.3
12 27	6 17.45	+37 44.1	1.778	2.741	5.1	18.8	12 27	6 17.70	+16 6.0	1.681	2.659	2.7	20.1
1 6	6 6.73	+38 0.4	1.795	2.739	7.1	18.9	1 6	6 8.52	+16 17.7	1.695	2.657	5.6	20.3
1 16	5 57.42	+37 59.6	1.839	2.737	10.3	19.1	1 16	6 0.54	+16 34.4	1.737	2.654	9.5	20.5
1 26	5 50.67	+37 45.0	1.907	2.735	13.4	19.3	1 26	5 54.70	+16 55.3	1.804	2.652	13.1	20.8
378106	2006 UG ₂₁₉		12 25.9	111°14	4°0/25.4	18	456133	2006 DZ ₁₀₈		12 25.9	1°83	3°9/25.8	17
11 17	6 55.95	+29 30.4	1.591	2.371	18.0	21.3	11 17	6 47.47	+33 5.9	1.876	2.658	15.6	21.1
11 27	6 50.75	+30 35.6	1.522	2.386	14.3	21.1	11 27	6 43.68	+33 31.4	1.793	2.657	12.5	20.9
12 7	6 41.96	+31 40.8	1.474	2.401	10.1	20.9	12 7	6 36.93	+33 52.0	1.731	2.657	9.0	20.7
12 17	6 30.31	+32 39.0	1.451	2.416	5.9	20.7	12 17	6 27.85	+34 3.4	1.695	2.657	5.5	20.5
12 27	6 17.21	+33 23.2	1.456	2.430	4.1	20.6	12 27	6 17.60	+34 1.9	1.686	2.658	4.0	20.4
1 6	6 4.41	+33 49.8	1.489	2.444	7.1	20.8	1 6	6 7.56	+33 46.4	1.704	2.659	6.3	20.6
1 16	5 53.57	+33 59.6	1.549	2.457	11.2	21.1	1 16	5 59.04	+33 18.9	1.750	2.661	9.9	20.8
1 26	5 45.89	+33 56.4	1.633	2.469	14.9	21.4	1 26	5 53.08	+32 43.1	1.821	2.663	13.3	21.0
254098	2004 KT ₄		12 25.9	161°07	0°6/25.9	18	10633	Akimasa		12 25.9	347°27	2°7/26.3	18
11 17	6 47.31	+20 15.8	2.239	3.008	13.8	20.9	11 17	6 45.89	+15 42.3	1.448	2.244	18.7	17.5
11 27	6 42.74	+20 31.2	2.150	3.011	10.9	20.7	11 27	6 42.91	+15 49.9	1.367	2.240	15.0	17.3
12 7	6 35.86	+20 50.8	2.085	3.014	7.5	20.5	12 7	6 36.71	+16 8.5	1.304	2.237	10.6	17.0
12 17	6 27.19	+21 13.0	2.045	3.017	3.7	20.3	12 17	6 27.88	+16 37.9	1.265	2.234	5.8	16.7
12 27	6 17.60	+21 36.2	2.036	3.019	0.7	20.1	12 27	6 17.59	+17 16.3	1.251	2.232	2.7	16.5
1 6	6 8.10	+21 58.7	2.057	3.021	4.4	20.4	1 6	6 7.36	+18 0.8	1.265	2.230	6.5	16.7
1 16	5 59.68	+22 19.6	2.107	3.023	8.2	20.6	1 16	5 58.69	+18 48.2	1.304	2.228	11.3	17.0
1 26	5 53.19	+22 38.9	2.183	3.024	11.4	20.8	1 26	5 52.78	+19 36.3	1.366	2.227	15.7	17.3
88425	2001 QH ₆₁		12 25.9	233°32	2°2/25.9	18	118242	1997 NM ₃		12 25.9	232°96	1°3/26.0	18
11 17	6 52.29	+28 50.6	1.673	2.457	17.1	20.0	11 17	6 50.28	+19 31.3	1.903	2.675	15.7	20.1
11 27	6 47.76	+28 56.7	1.584	2.452	13.7	19.7	11 27	6 45.69	+19 30.1	1.802	2.664	12.6	19.9
12 7	6 39.89	+29 0.0	1.515	2.447	9.6	19.5	12 7	6 38.27	+19 33.3	1.723	2.652	8.8	19.6
12 17	6 29.34	+28 56.7	1.471	2.441	5.0	19.2	12 17	6 28.55	+19 40.2	1.669	2.640	4.5	19.3
12 27	6 17.36	+28 43.9	1.455	2.435	2.2	19.0	12 27	6 17.51	+19 49.5	1.644	2.626	1.4	19.1
1 6	6 5.54	+28 20.8	1.467	2.429	6.1	19.2	1 6	6 6.42	+20 0.0	1.649	2.613	5.4	19.3
1 16	5 55.42	+27 49.7	1.506	2.423	10.7	19.5	1 16	5 56.57	+20 11.2	1.682	2.599	9.8	19.5
1 26	5 48.18	+27 14.6	1.569	2.417	14.8	19.7	1 26	5 49.04	+20 23.4	1.741	2.584	13.8	19.8
340915	2007 DW ₇₅		12 25.9	237°33	1°6/26.0	18	472256	2014 OM ₁₀₈		12 25.9	52°40	0°8/25.8	18
11 17	6 49.60	+19 15.2	1.816	2.593	16.2	22.0	11 17	6 47.61	+23 39.4	1.828	2.613	15.8	21.1
11 27	6 45.24	+19 9.0	1.718	2.583	13.0	21.8	11 27	6 43.53	+24 6.3	1.752	2.622	12.5	20.9
12 7	6 37.99	+19 7.5	1.643	2.573	9.1	21.5	12 7	6 36.68	+24 36.0	1.698	2.632	8.5	20.6
12 17	6 28.39	+19 9.9	1.592	2.562	4.7	21.3	12 17	6 27.69	+25 5.8	1.670	2.642	4.1	20.4
12 27	6 17.48	+19 15.3	1.570	2.551	1.7	21.0	12 27	6 17.63	+25 32.4	1.670	2.653	1.0	20.2
1 6	6 6.56	+19 22.8	1.576	2.540	5.6	21.3	1 6	6 7.79	+25 53.8	1.699	2.663	5.1	20.5
1 16	5 56.94	+19 31.9	1.611	2.528	10.1	21.5	1 16	5 59.37	+26 9.6	1.755	2.674	9.3	20.8
1 26	5 49.72	+19 42.9	1.670	2.516	14.1	21.7	1 26	5 53.32	+26 20.5	1.836	2.685	12.9	21.0
146701	2001 VJ ₁₀₁		12 25.9	335°41	2°0/25.8	17	485494	2011 SK ₁₈₈		12 25.9	21°53	5°7/25.8	17
11 17	6 48.29	+28 13.2	1.959	2.739	15.1	20.3	11 17	6 50.64	+35 33.0	1.535	2.324	18.1	21.4
11 27	6 44.05	+28 29.8	1.872	2.738	12.0	20.1	11 27	6 46.93	+36 12.9	1.463	2.328	14.7	21.2
12 7	6 37.03	+28 45.0	1.807	2.738	8.3	19.8	12 7	6 39.53	+36 45.7	1.410	2.333	10.9	21.0
12 17	6 27.86	+28 55.6	1.767	2.737	4.4	19.6	12 17	6 29.21	+37 4.7	1.381	2.339	7.2	20.8
12 27	6 17.55	+28 58.9	1.756	2.736	2.1	19.5	12 27	6 17.44	+37 4.5	1.378	2.345	5.7	20.7
1 6	6 7.40	+28 53.7	1.773	2.735	5.3	19.7	1 6	6 6.05	+36 43.6	1.401	2.351	8.0	20.9
1 16	5 58.62	+28 41.0	1.819	2.735	9.3	19.9	1 16	5 56.69	+36 5.3	1.450	2.358	11.7	21.1
1 26	5 52.20	+28 23.3	1.890	2.734	12.8	20.1	1 26	5 50.59	+35 15.9	1.522	2.366	15.3	21.3
317782	2003 SN ₁₅₄		12 25.9	93°88	6°4/26.3	18	356160	2009 HH ₃₀		12 25.9	9°34	13°0/26.9	18
11 17	6 43.99	+4 58.2	2.354	3.091	14.0	20.3</							

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
362790	2011 <i>WH</i> ₁₃₃		12 25.9 336°44	11.3/25.9 18			303608	2005 <i>JS</i> ₂₃		12 25.9 194°73	2°4/25.5 18		
11 17	6 43.41	- 1 0.1	1.692	2.434	18.5	20.2	11 17	6 50.29	+27 35.3	2.077	2.849	14.6	21.0
11 27	6 40.28	- 2 37.7	1.613	2.427	16.2	20.0	11 27	6 45.59	+28 21.8	1.987	2.848	11.6	20.8
12 7	6 34.52	- 3 59.4	1.554	2.421	13.8	19.9	12 7	6 38.14	+29 9.6	1.918	2.847	8.1	20.6
12 17	6 26.70	- 4 57.7	1.516	2.415	12.0	19.7	12 17	6 28.47	+29 54.4	1.877	2.845	4.4	20.3
12 27	6 17.76	- 5 26.8	1.501	2.410	11.3	19.7	12 27	6 17.58	+30 31.8	1.865	2.843	2.5	20.2
1 6	6 8.89	- 5 24.5	1.511	2.405	12.3	19.7	1 6	6 6.69	+30 59.0	1.882	2.840	5.5	20.4
1 16	6 1.25	- 4 52.3	1.543	2.401	14.4	19.9	1 16	5 57.06	+31 15.5	1.928	2.838	9.2	20.6
1 26	5 55.81	- 3 55.5	1.597	2.397	16.9	20.0	1 26	5 49.72	+31 23.0	2.000	2.835	12.6	20.8
216144	2006 <i>SE</i> ₂₁₉		12 25.9 52°28	1°6/25.8 17			419522	2010 <i>JU</i> ₃₈		12 25.9 88°62	16°4/25.2 18		
11 17	6 48.54	+25 58.4	1.751	2.538	16.3	20.5	11 17	6 50.57	- 4 39.6	1.286	2.025	23.5	21.6
11 27	6 44.45	+26 26.2	1.676	2.547	12.9	20.3	11 27	6 46.51	- 7 28.3	1.232	2.033	21.0	21.4
12 7	6 37.40	+26 55.0	1.623	2.556	8.9	20.1	12 7	6 39.05	- 9 54.9	1.194	2.040	18.6	21.3
12 17	6 28.08	+27 21.4	1.595	2.566	4.5	19.9	12 17	6 28.94	-11 46.5	1.176	2.048	16.9	21.2
12 27	6 17.61	+27 41.8	1.594	2.576	1.7	19.7	12 27	6 17.53	-12 52.6	1.179	2.056	16.4	21.2
1 6	6 7.39	+27 54.4	1.623	2.586	5.5	20.0	1 6	6 6.45	-13 9.8	1.202	2.063	17.3	21.3
1 16	5 58.71	+27 59.4	1.678	2.596	9.7	20.2	1 16	5 57.21	-12 41.4	1.246	2.071	19.2	21.4
1 26	5 52.59	+27 58.5	1.758	2.607	13.4	20.5	1 26	5 50.94	-11 36.3	1.306	2.078	21.4	21.6
274256	2008 <i>OV</i> ₂₀		12 25.9 217°19	0°8/25.9 18			133604	2003 <i>UD</i> ₉₅		12 25.9 309°81	4°7/25.3 18		
11 17	6 51.98	+25 7.4	1.966	2.738	15.3	22.3	11 17	6 48.35	+34 54.9	2.190	2.959	14.0	19.9
11 27	6 47.00	+25 17.6	1.868	2.730	12.2	22.1	11 27	6 44.16	+35 44.4	2.099	2.952	11.4	19.7
12 7	6 39.14	+25 28.5	1.792	2.722	8.4	21.8	12 7	6 37.21	+36 30.1	2.029	2.946	8.5	19.5
12 17	6 28.96	+25 37.6	1.742	2.713	4.2	21.5	12 17	6 28.04	+37 6.8	1.986	2.940	5.7	19.3
12 27	6 17.49	+25 42.1	1.721	2.703	1.0	21.3	12 27	6 17.63	+37 30.0	1.971	2.934	4.7	19.2
1 6	6 6.05	+25 41.0	1.729	2.693	5.2	21.6	1 6	6 7.26	+37 37.4	1.985	2.929	6.6	19.3
1 16	5 55.93	+25 34.6	1.767	2.682	9.5	21.8	1 16	5 58.16	+37 29.5	2.026	2.923	9.5	19.5
1 26	5 48.21	+25 25.0	1.830	2.670	13.3	22.0	1 26	5 51.38	+37 9.7	2.092	2.918	12.5	19.7
89193	2001 <i>UW</i> ₇₇		12 25.9 232°65	2°2/25.9 18			51518	2001 <i>FN</i> ₁₀₈		12 25.9 148°13	2°5/25.8 18		
11 17	6 53.30	+29 34.5	1.954	2.724	15.4	19.2	11 17	6 51.62	+29 48.8	2.141	2.909	14.4	20.3
11 27	6 48.18	+29 40.9	1.853	2.713	12.4	18.9	11 27	6 46.40	+30 12.6	2.058	2.916	11.4	20.1
12 7	6 40.02	+29 44.1	1.773	2.701	8.7	18.7	12 7	6 38.50	+30 33.9	1.997	2.923	8.0	19.9
12 17	6 29.41	+29 40.4	1.720	2.688	4.7	18.4	12 17	6 28.55	+30 49.3	1.963	2.929	4.4	19.7
12 27	6 17.44	+29 27.1	1.695	2.675	2.3	18.2	12 27	6 17.59	+30 55.6	1.958	2.936	2.6	19.6
1 6	6 5.53	+29 3.4	1.700	2.661	5.6	18.4	1 6	6 6.83	+30 51.8	1.983	2.941	5.3	19.8
1 16	5 55.05	+28 31.1	1.734	2.647	9.8	18.6	1 16	5 57.44	+30 38.8	2.037	2.946	8.8	20.0
1 26	5 47.12	+27 54.0	1.793	2.632	13.6	18.9	1 26	5 50.34	+30 19.5	2.117	2.951	12.0	20.2
368326	2002 <i>PX</i> ₁₈₆		12 25.9 107°52	3°6/25.8 16			265827	2005 <i>YP</i> ₁₁		12 25.9 52°95	1°2/25.8 18		
11 17	6 50.23	+35 16.0	2.650	3.403	12.3	22.2	11 17	6 47.55	+25 39.1	1.915	2.698	15.3	20.7
11 27	6 44.76	+35 40.1	2.575	3.420	9.8	22.1	11 27	6 43.34	+25 55.4	1.841	2.709	12.0	20.5
12 7	6 37.07	+35 58.7	2.523	3.437	7.2	21.9	12 7	6 36.47	+26 12.0	1.788	2.721	8.2	20.3
12 17	6 27.73	+36 8.2	2.499	3.453	4.7	21.8	12 17	6 27.58	+26 26.4	1.761	2.733	4.1	20.1
12 27	6 17.67	+36 6.3	2.504	3.469	3.6	21.7	12 27	6 17.72	+26 36.2	1.762	2.745	1.3	19.9
1 6	6 7.88	+35 52.4	2.539	3.485	5.2	21.9	1 6	6 8.11	+26 40.1	1.793	2.757	5.0	20.2
1 16	5 59.30	+35 28.1	2.604	3.501	7.7	22.0	1 16	5 59.91	+26 38.7	1.851	2.769	9.0	20.5
1 26	5 52.67	+34 56.4	2.695	3.516	10.1	22.2	1 26	5 54.01	+26 33.5	1.934	2.782	12.4	20.7
425209	2009 <i>VL</i> ₃₉		12 25.9 79°82	4°4/25.6 18			217605	2008 <i>KM</i> ₂₇		12 25.9 110°38	2°3/26.2 18		
11 17	6 53.97	+31 3.7	1.493	2.282	18.6	20.8	11 17	6 46.16	+15 54.6	2.190	2.956	14.1	21.2
11 27	6 49.43	+31 55.4	1.427	2.296	14.9	20.6	11 27	6 41.79	+15 54.4	2.107	2.964	11.2	21.0
12 7	6 41.17	+32 44.8	1.381	2.309	10.6	20.4	12 7	6 35.20	+16 0.7	2.047	2.972	7.9	20.8
12 17	6 30.00	+33 25.1	1.358	2.323	6.3	20.2	12 17	6 26.92	+16 13.2	2.013	2.979	4.4	20.6
12 27	6 17.39	+33 50.0	1.362	2.336	4.4	20.1	12 27	6 17.80	+16 31.2	2.008	2.986	2.3	20.4
1 6	6 5.18	+33 57.0	1.394	2.350	7.4	20.3	1 6	6 8.82	+16 53.4	2.033	2.993	4.9	20.6
1 16	5 55.04	+33 47.8	1.452	2.363	11.5	20.6	1 16	6 0.92	+17 18.7	2.086	3.000	8.3	20.9
1 26	5 48.18	+33 27.5	1.533	2.376	15.3	20.9	1 26	5 54.90	+17 46.1	2.166	3.007	11.5	21.1
15308	1993 <i>FR</i> ₄		12 25.9 187°34	1°5/26.1 18			146597	2001 <i>TA</i> ₁₆₀		12 25.9 345°32	4°3/26.8 17		
11 17	6 50.98	+18 53.6	2.069	2.834	14.9	19.9	11 17	6 42.54	+11 28.0	1.511	2.302	18.3	18.9
11 27	6 45.84	+18 52.2	1.976	2.834	11.9	19.7	11 27	6 40.14	+11 36.2	1.424	2.292	14.9	18.6
12 7	6 38.12	+18 55.3	1.906	2.833	8.2	19.4	12 7	6 34.78	+11 59.5	1.356	2.283	10.9	18.3
12 17	6 28.39	+19 2.0	1.862	2.831	4.2	19.2	12 17	6 26.98	+12 38.9	1.312	2.275	6.7	18.1
12 27	6 17.58	+19 11.3	1.847	2.829	1.5	19.0	12 27	6 17.77	+13 33.4	1.293	2.268	4.3	17.9
1 6	6 6.86	+19 22.0	1.863	2.826	5.0	19.2	1 6	6 8.54	+14 39.7	1.301	2.262	6.9	18.1
1 16	5 57.34	+19 33.9	1.908	2.822	9.0	19.5	1 16	6 0.65	+15 53.1	1.335	2.257	11.3	18.3
1 26	5 49.97	+19 46.8	1.979	2.817	12.6	19.7	1 26	5 55.29	+17 9.2	1.392	2.254	15.4	18.5
78598	2002 <i>SP</i> ₂₄		12 25.9 182°51	0°2/25.9 18			47515	2000 <i>AB</i> ₆₉		12 25.9 48°55	0°8/26.1 18		
11 17	6 45.22	+22 11.3	2.878	3.639	11.2	19.9	11 17	6 49.56	+19 2.1	1.289	2.092	20.2	19.0
11 27	6 40.60	+22 17.9	2.782	3.639	8.8	19.7	11 27	6 46.05	+19 29.6	1.224	2.104	16.0	18.7
12 7	6 34.16	+22 26.2	2.711	3.639	6.0	19.5	12 7	6 38.93	+20 6.7	1.178	2.116	11.0	18.5
12 17	6 26.35	+22 35.0	2.668	3.639	2.9	19.3	12 17	6 28.96	+20 50.6	1.155	2.128	5.4	18.2
12 27	6 17.84	+22 43.2	2.655	3.638	0.4	19.1	12 27	6 17.55	+21 36.9	1.158	2.141	1.0	17.9
1 6	6 9.40	+22 50.1	2.673	3.637	3.6	19.4	1 6	6 6.48	+22 21.5	1.187	2.154	6.4	18.3
1 16	6 1.78	+22 55.6	2.722	3.636	6.7	19.6	1 16	5 57.38	+23 2.0	1.242	2.167	11.6	18.7
1 26	5 55.64	+23 0.0	2.799	3.634	9.4	19.8	1 26	5 51.47	+23 37.8	1.319	2.181	16.1	19.0
518251	2016 <i>UK</i> ₁₃₆		12 25.9 36°85	3°8/26.2 18			404593	2013 <i>MU</i> ₉		12 25.9			

EPHEMERIDES

12 25.9

12 25.9

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
293547	2007 <i>HB</i> ₂₅		12 25.9 159°48	0.7/25.8	17		81167	2000 <i>EH</i> ₁₆₄		12 25.9 116°69	0.3/25.9	18	
11 17	6 46.52	+25 10.9	3.103	3.858	10.6	22.2	11 17	6 49.25	+23 57.4	1.999	2.774	15.0	20.1
11 27	6 41.48	+25 29.4	3.012	3.866	8.3	22.0	11 27	6 44.56	+24 0.5	1.918	2.782	11.8	19.9
12 7	6 34.69	+25 48.2	2.946	3.872	5.7	21.8	12 7	6 37.27	+24 4.5	1.859	2.790	8.1	19.6
12 17	6 26.60	+26 5.6	2.908	3.878	2.8	21.7	12 17	6 28.01	+24 7.6	1.826	2.798	3.9	19.4
12 27	6 17.85	+26 20.0	2.902	3.884	0.8	21.5	12 27	6 17.77	+24 8.2	1.822	2.805	0.5	19.1
1 6	6 9.20	+26 30.5	2.927	3.889	3.5	21.7	1 6	6 7.76	+24 5.5	1.848	2.812	4.8	19.5
1 16	6 1.35	+26 37.1	2.984	3.894	6.3	21.9	1 16	5 59.09	+24 0.0	1.902	2.819	8.8	19.7
1 26	5 54.94	+26 40.2	3.068	3.898	8.8	22.1	1 26	5 52.65	+23 53.1	1.982	2.826	12.3	20.0
464401	2016 <i>BV</i> ₁₅		12 25.9 353°94	3°1/26.2	18		305007	2007 <i>TT</i> ₃₂₈		12 25.9 77°23	2°2/25.9	18	
11 17	6 50.24	+33 55.7	2.079	2.849	14.7	20.4	11 17	6 51.17	+28 25.2	1.749	2.532	16.5	21.2
11 27	6 45.44	+33 45.6	1.990	2.847	11.8	20.2	11 27	6 46.50	+28 42.6	1.678	2.545	13.1	21.0
12 7	6 37.89	+33 27.9	1.923	2.846	8.4	20.0	12 7	6 38.80	+28 58.1	1.627	2.558	9.1	20.8
12 17	6 28.26	+32 59.5	1.881	2.845	5.0	19.8	12 17	6 28.79	+29 8.0	1.602	2.571	4.8	20.6
12 27	6 17.66	+32 18.7	1.869	2.844	3.1	19.6	12 27	6 17.69	+29 9.4	1.604	2.585	2.3	20.4
1 6	6 7.37	+31 26.6	1.886	2.843	5.5	19.8	1 6	6 6.96	+29 1.3	1.636	2.598	5.7	20.7
1 16	5 58.56	+30 26.2	1.931	2.843	9.0	20.0	1 16	5 57.89	+28 45.2	1.695	2.611	9.8	21.0
1 26	5 52.15	+29 22.4	2.003	2.843	12.3	20.2	1 26	5 51.49	+28 24.3	1.778	2.624	13.4	21.2
448489	2010 <i>JS</i> ₈₀		12 25.9 256°46	6°2/26.9	18		507588	2013 <i>BW</i> ₃₁		12 25.9 203°30	9°7/27.1	17	
11 17	6 46.55	+6 31.2	1.855	2.609	16.7	21.2	11 17	7 7.68	+44 45.4	1.323	2.085	21.9	21.3
11 27	6 42.64	+6 13.4	1.762	2.601	13.9	21.0	11 27	7 1.87	+45 15.2	1.244	2.083	18.6	21.0
12 7	6 36.12	+6 10.0	1.689	2.593	10.7	20.8	12 7	6 50.59	+45 27.3	1.183	2.081	14.8	20.8
12 17	6 27.52	+6 23.4	1.640	2.584	7.7	20.6	12 17	6 34.85	+45 9.2	1.142	2.078	11.4	20.6
12 27	6 17.73	+6 54.9	1.618	2.576	6.2	20.5	12 27	6 16.98	+44 11.2	1.126	2.075	9.7	20.5
1 6	6 7.93	+7 43.1	1.624	2.567	7.8	20.6	1 6	5 59.98	+42 33.5	1.136	2.071	11.3	20.6
1 16	5 59.26	+8 44.9	1.657	2.559	10.9	20.7	1 16	5 46.43	+40 26.7	1.170	2.067	14.9	20.7
1 26	5 52.71	+9 56.1	1.715	2.550	14.3	20.9	1 26	5 37.83	+38 6.8	1.227	2.062	18.9	21.0
13254	Kekulé		12 25.9 229°62	3°1/25.9	18		311624	2006 <i>QA</i> ₂₃		12 25.9 60°46	3°4/25.8	18	
11 17	6 53.92	+30 49.2	1.759	2.535	16.7	19.0	11 17	6 55.07	+31 2.1	1.679	2.456	17.3	19.8
11 27	6 49.07	+31 5.5	1.664	2.527	13.4	18.8	11 27	6 49.43	+31 33.7	1.629	2.492	13.7	19.6
12 7	6 40.86	+31 18.2	1.591	2.518	9.5	18.5	12 7	6 40.62	+32 0.9	1.600	2.527	9.5	19.5
12 17	6 29.91	+31 22.7	1.542	2.509	5.4	18.3	12 17	6 29.55	+32 18.8	1.597	2.562	5.4	19.3
12 27	6 17.46	+31 15.0	1.522	2.500	3.2	18.1	12 27	6 17.62	+32 23.7	1.621	2.597	3.5	19.3
1 6	6 5.10	+30 53.9	1.530	2.489	6.3	18.3	1 6	6 6.38	+32 15.2	1.674	2.631	6.2	19.5
1 16	5 54.39	+30 21.6	1.566	2.479	10.7	18.5	1 16	5 57.11	+31 55.8	1.755	2.666	9.9	19.8
1 26	5 46.57	+29 42.5	1.626	2.468	14.6	18.7	1 26	5 50.71	+31 29.6	1.860	2.700	13.2	20.1
99292	2001 <i>QS</i> ₂₂₆		12 25.9 208°97	1°8/25.9	18		274796	2008 <i>WB</i> ₅₈		12 25.9 156°12	1°9/25.6	18	
11 17	6 46.90	+29 55.0	2.825	3.585	11.4	19.6	11 17	6 46.68	+27 46.3	2.612	3.378	12.1	21.0
11 27	6 42.08	+30 0.7	2.727	3.581	9.1	19.5	11 27	6 42.12	+28 21.9	2.522	3.380	9.6	20.8
12 7	6 35.26	+30 3.5	2.653	3.577	6.3	19.3	12 7	6 35.43	+28 57.3	2.456	3.383	6.6	20.6
12 17	6 26.94	+30 1.4	2.606	3.573	3.4	19.1	12 17	6 27.09	+29 29.9	2.417	3.385	3.6	20.4
12 27	6 17.85	+29 52.8	2.590	3.568	1.8	19.0	12 27	6 17.90	+29 56.7	2.409	3.387	2.0	20.3
1 6	6 8.87	+29 37.5	2.604	3.563	4.1	19.1	1 6	6 8.76	+30 16.2	2.431	3.389	4.4	20.5
1 16	6 0.82	+29 16.2	2.649	3.558	7.0	19.3	1 16	6 0.58	+30 28.1	2.483	3.391	7.4	20.7
1 26	5 54.43	+28 51.0	2.721	3.553	9.7	19.5	1 26	5 54.15	+30 33.4	2.561	3.393	10.2	20.9
123749	2001 <i>AK</i> ₂₆		12 25.9 11°09	2°9/25.4	17		78021	2002 <i>JY</i> ₆₄		12 25.9 179°84	1°2/25.7	18	
11 17	6 48.45	+28 31.6	2.148	2.922	14.1	19.4	11 17	6 47.44	+24 56.8	2.555	3.319	12.4	19.9
11 27	6 44.10	+29 26.3	2.060	2.922	11.2	19.2	11 27	6 42.74	+25 33.9	2.462	3.320	9.8	19.7
12 7	6 37.11	+30 21.9	1.995	2.922	7.9	19.0	12 7	6 35.88	+26 12.9	2.392	3.321	6.7	19.5
12 17	6 28.00	+31 13.9	1.956	2.922	4.5	18.8	12 17	6 27.33	+26 51.2	2.351	3.321	3.4	19.3
12 27	6 17.72	+31 57.9	1.946	2.922	2.9	18.7	12 27	6 17.87	+27 25.8	2.339	3.321	1.3	19.1
1 6	6 7.45	+32 31.0	1.966	2.922	5.5	18.8	1 6	6 8.43	+27 54.9	2.359	3.320	4.2	19.3
1 16	5 58.38	+32 52.2	2.015	2.922	9.0	19.1	1 16	5 59.94	+28 17.6	2.408	3.320	7.5	19.6
1 26	5 51.49	+33 3.4	2.089	2.922	12.2	19.3	1 26	5 53.20	+28 34.5	2.485	3.319	10.5	19.7
167450	2003 <i>XU</i> ₉		12 25.9 8°64	8°2/26.1	18		324326	2006 <i>HL</i> ₁₄₇		12 25.9 140°42	0°3/25.9	18	
11 17	6 51.09	+40 25.4	1.409	2.198	19.5	19.4	11 17	6 55.07	+22 51.9	1.724	2.497	17.1	22.0
11 27	6 47.96	+41 14.0	1.339	2.199	16.2	19.2	11 27	6 49.48	+22 48.2	1.647	2.510	13.5	21.8
12 7	6 40.63	+41 50.9	1.288	2.201	12.6	19.0	12 7	6 40.80	+22 46.3	1.591	2.522	9.3	21.5
12 17	6 29.92	+42 7.2	1.259	2.204	9.4	18.8	12 17	6 29.76	+22 44.0	1.561	2.533	4.5	21.3
12 27	6 17.52	+41 56.2	1.254	2.208	8.2	18.8	12 27	6 17.60	+22 39.8	1.560	2.543	0.6	21.0
1 6	6 5.60	+41 16.7	1.274	2.213	9.9	18.9	1 6	6 5.77	+22 33.0	1.588	2.553	5.5	21.4
1 16	5 56.10	+40 13.6	1.318	2.219	13.2	19.1	1 16	5 55.63	+22 24.6	1.645	2.561	10.0	21.7
1 26	5 50.33	+38 56.0	1.384	2.226	16.7	19.3	1 26	5 48.19	+22 16.3	1.726	2.569	13.9	21.9
101152	1998 <i>RD</i> ₇₂		12 25.9 40°31	0°6/25.9	18		403577	2010 <i>NV</i> ₁₁₄		12 25.9 98°81	1°6/26.1	18	
11 17	6 49.97	+23 36.9	1.150	1.965	21.5	19.2	11 17	6 47.40	+19 6.7	2.040	2.814	14.8	21.6
11 27	6 46.64	+23 51.5	1.098	1.984	16.9	19.0	11 27	6 42.96	+18 54.3	1.960	2.822	11.7	21.4
12 7	6 39.39	+24 9.6	1.064	2.005	11.5	18.8	12 7	6 36.11	+18 45.6	1.901	2.830	8.1	21.2
12 17	6 29.16	+24 27.5	1.052	2.026	5.6	18.5	12 17	6 27.43	+18 40.4	1.869	2.838	4.2	21.0
12 27	6 17.63	+24 41.5	1.064	2.047	0.9	18.2	12 27	6 17.87	+18 38.2	1.865	2.846	1.7	20.8
1 6	6 6.76	+24 49.9	1.102	2.070	6.7	18.7	1 6	6 8.52	+18 38.5	1.891	2.854	4.9	21.1
1 16	5 58.22	+24 53.1	1.165	2.093	12.0	19.1	1 16	6 0.40	+18 41.4	1.945	2.862	8.7	21.3
1 26	5 53.13	+24 53.2	1.249	2.116	16.5	19.4	1 26	5 54.33	+18 46.8	2.025	2.869	12.1	21.5
256108	2006 <i>UX</i> ₂₇₃		12 25.9 300°78	1°1/25.9	17		52239	1979 <i>OV</i> ₁₀		12 25.9 61°80	4°3/26.5	18	
11 17	6 4												

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
76319	2000 <i>ET</i> ₁₄₂	12 25.9 350°83	0°5/25.9 18				182640	2001 <i>UM</i> ₁₅₆	12 25.9 347°68	0°0/25.9 17			
11 17	6 48.25	+25 41.8	1.488	2.287	18.2	18.6	11 17	6 46.80	+22 13.6	1.900	2.683	15.4	20.5
11 27	6 44.74	+24 54.3	1.404	2.282	14.5	18.3	11 27	6 42.92	+22 28.8	1.813	2.681	12.2	20.3
12 7	6 37.91	+24 2.0	1.341	2.278	10.0	18.1	12 7	6 36.36	+22 47.6	1.747	2.680	8.4	20.0
12 17	6 28.47	+23 4.8	1.301	2.274	4.9	17.8	12 17	6 27.69	+23 8.0	1.707	2.679	4.1	19.8
12 27	6 17.75	+22 3.9	1.289	2.272	0.8	17.5	12 27	6 17.88	+23 27.6	1.695	2.678	0.5	19.5
1 6	6 7.33	+21 2.1	1.303	2.270	6.0	17.8	1 6	6 8.16	+23 44.7	1.712	2.678	5.0	19.8
1 16	5 58.68	+20 3.6	1.344	2.268	11.1	18.1	1 16	5 59.72	+23 58.8	1.757	2.677	9.2	20.1
1 26	5 52.91	+19 12.1	1.409	2.268	15.4	18.4	1 26	5 53.53	+24 10.3	1.827	2.677	12.9	20.3
439466	2013 <i>YT</i> ₅₄	12 25.9 204°77	1°5/26.1 18				97914	2000 <i>QK</i> ₉₀	12 25.9 138°74	0°7/25.9 18	R		
11 17	6 58.33	+30 34.3	2.037	2.794	15.3	20.4	11 17	6 55.73	+25 11.2	1.694	2.469	17.3	19.8
11 27	6 51.78	+30 0.9	1.937	2.790	12.3	20.2	11 27	6 50.13	+25 14.7	1.617	2.481	13.7	19.6
12 7	6 42.25	+29 19.9	1.860	2.784	8.6	20.0	12 7	6 41.32	+25 18.2	1.562	2.493	9.4	19.4
12 17	6 30.44	+28 28.9	1.810	2.778	4.4	19.7	12 17	6 30.06	+25 18.9	1.532	2.504	4.6	19.1
12 27	6 17.53	+27 27.2	1.790	2.772	1.5	19.5	12 27	6 17.62	+25 14.5	1.531	2.514	0.9	18.9
1 6	6 4.93	+26 16.9	1.802	2.764	5.2	19.7	1 6	6 5.54	+25 4.3	1.559	2.524	5.6	19.2
1 16	5 53.94	+25 2.3	1.844	2.756	9.4	20.0	1 16	5 55.22	+24 49.6	1.616	2.532	10.1	19.5
1 26	5 45.54	+23 48.8	1.913	2.747	13.1	20.2	1 26	5 47.72	+24 33.2	1.697	2.540	14.0	19.8
273576	2007 <i>CY</i> ₁₅	12 25.9 238°51	3°2/25.6 18				149587	2004 <i>CY</i> ₁₈	12 25.9 273°44	5°0/26.0 17			
11 17	6 53.11	+29 47.0	1.886	2.659	15.8	21.3	11 17	6 53.01	+36 45.8	1.941	2.707	15.7	20.6
11 27	6 48.36	+30 24.6	1.785	2.646	12.7	21.0	11 27	6 48.27	+37 5.6	1.843	2.695	12.8	20.3
12 7	6 40.41	+31 1.6	1.706	2.633	9.1	20.8	12 7	6 40.28	+37 17.6	1.767	2.682	9.6	20.1
12 17	6 29.79	+31 33.1	1.653	2.619	5.2	20.5	12 17	6 29.67	+37 16.2	1.715	2.669	6.4	19.9
12 27	6 17.59	+31 54.3	1.628	2.604	3.3	20.4	12 27	6 17.65	+36 57.3	1.691	2.657	5.0	19.8
1 6	6 5.29	+32 2.3	1.632	2.589	6.3	20.5	1 6	6 5.77	+36 19.8	1.696	2.644	7.0	19.9
1 16	5 54.40	+31 57.3	1.664	2.574	10.4	20.7	1 16	5 55.51	+35 26.8	1.728	2.631	10.5	20.1
1 26	5 46.18	+31 42.7	1.721	2.557	14.2	20.9	1 26	5 48.03	+34 23.8	1.785	2.618	13.9	20.2
79116	1984 <i>ST</i> ₆	12 25.9 73°51	8°3/27.1 18				287624	2003 <i>HA</i> ₁₇	12 25.9 309°74	6°0/25.1 18			
11 17	6 50.99	+ 4 57.8	1.459	2.219	20.2	19.2	11 17	6 48.99	+35 22.7	1.787	2.568	16.3	20.6
11 27	6 46.22	+ 4 4.2	1.407	2.246	16.8	19.0	11 27	6 45.68	+36 23.9	1.685	2.546	13.4	20.3
12 7	6 38.48	+ 3 28.3	1.373	2.272	13.1	18.8	12 7	6 38.94	+37 22.3	1.604	2.523	10.1	20.1
12 17	6 28.58	+ 3 14.4	1.362	2.298	9.8	18.7	12 17	6 29.23	+38 11.1	1.548	2.501	7.1	19.9
12 27	6 17.78	+ 3 24.5	1.376	2.324	8.3	18.7	12 27	6 17.68	+38 43.2	1.518	2.480	6.1	19.8
1 6	6 7.50	+ 3 56.9	1.416	2.350	9.6	18.8	1 6	6 5.90	+38 54.5	1.515	2.458	8.2	19.8
1 16	5 58.98	+ 4 47.8	1.481	2.375	12.5	19.1	1 16	5 55.60	+38 44.9	1.538	2.437	11.8	20.0
1 26	5 53.10	+ 5 51.3	1.570	2.400	15.6	19.3	1 26	5 48.21	+38 18.9	1.584	2.417	15.4	20.2
71410	2000 <i>AG</i> ₁₇₉	12 25.9 33°54	5°1/26.1 18				215970	2005 <i>QV</i> ₆₆	12 25.9 105°02	2°1/26.3 18			
11 17	6 46.29	+13 57.3	1.415	2.210	19.2	17.7	11 17	6 47.84	+15 36.2	2.150	2.914	14.4	20.3
11 27	6 42.90	+13 5.4	1.352	2.222	15.5	17.5	11 27	6 43.14	+15 48.2	2.073	2.928	11.5	20.1
12 7	6 36.45	+12 22.3	1.309	2.235	11.2	17.3	12 7	6 36.17	+16 7.5	2.018	2.942	8.0	19.9
12 17	6 27.69	+11 50.8	1.288	2.249	7.1	17.1	12 17	6 27.47	+16 33.4	1.989	2.956	4.4	19.7
12 27	6 17.89	+11 32.8	1.293	2.264	5.1	17.1	12 27	6 17.93	+17 4.6	1.990	2.969	2.1	19.6
1 6	6 8.48	+11 29.1	1.324	2.280	7.6	17.2	1 6	6 8.57	+17 39.0	2.021	2.982	4.8	19.8
1 16	6 0.77	+11 38.4	1.380	2.296	11.6	17.5	1 16	6 0.36	+18 15.1	2.081	2.995	8.3	20.1
1 26	5 55.73	+11 58.6	1.459	2.313	15.4	17.8	1 26	5 54.08	+18 51.6	2.167	3.008	11.5	20.3
66017	1998 <i>QC</i> ₃₀	12 25.9 315°36	1°3/25.9 18				413259	2003 <i>SO</i> ₄₃₃	12 25.9 117°48	1°3/26.0 18			
11 17	6 47.61	+27 46.3	2.095	2.872	14.3	19.1	11 17	6 46.75	+20 12.4	2.477	3.240	12.7	21.6
11 27	6 43.34	+27 40.0	2.002	2.867	11.4	18.9	11 27	6 41.98	+19 53.8	2.394	3.251	10.0	21.4
12 7	6 36.51	+27 31.0	1.932	2.863	7.9	18.7	12 7	6 35.20	+19 37.0	2.335	3.262	6.9	21.2
12 17	6 27.70	+27 17.4	1.887	2.858	4.0	18.4	12 17	6 26.94	+19 22.0	2.303	3.272	3.5	21.0
12 27	6 17.88	+26 57.9	1.871	2.853	1.3	18.2	12 27	6 18.00	+19 8.7	2.301	3.282	1.3	20.9
1 6	6 8.21	+26 32.4	1.885	2.849	4.8	18.5	1 6	6 9.26	+18 57.0	2.330	3.292	4.2	21.1
1 16	5 59.80	+26 2.6	1.927	2.845	8.7	18.7	1 16	6 1.55	+18 47.6	2.389	3.302	7.5	21.3
1 26	5 53.55	+25 31.0	1.995	2.841	12.2	18.9	1 26	5 55.56	+18 40.8	2.474	3.312	10.4	21.5
137291	1999 <i>RD</i> ₂₀₆	12 25.9 109°98	0°1/25.9 18				235892	2005 <i>CB</i> ₅₇	12 25.9 164°56	0°6/25.9 18			
11 17	6 56.37	+24 12.0	1.734	2.505	17.1	20.4	11 17	6 46.70	+25 50.1	2.420	3.189	12.8	20.6
11 27	6 50.29	+24 5.3	1.667	2.529	13.4	20.2	11 27	6 42.19	+25 46.2	2.329	3.190	10.1	20.4
12 7	6 41.20	+23 58.7	1.622	2.552	9.2	20.0	12 7	6 35.49	+25 41.3	2.261	3.191	7.0	20.2
12 17	6 29.89	+23 50.3	1.602	2.574	4.4	19.8	12 17	6 27.15	+25 33.9	2.220	3.191	3.4	20.0
12 27	6 17.64	+23 38.4	1.612	2.595	0.5	19.5	12 27	6 17.98	+25 23.0	2.209	3.192	0.7	19.8
1 6	6 5.91	+23 23.2	1.651	2.615	5.3	19.9	1 6	6 8.97	+25 8.4	2.229	3.192	4.2	20.0
1 16	5 55.98	+23 6.1	1.719	2.635	9.7	20.2	1 16	6 1.02	+24 51.0	2.277	3.193	7.6	20.3
1 26	5 48.76	+22 49.3	1.812	2.654	13.4	20.5	1 26	5 54.90	+24 32.4	2.353	3.193	10.7	20.5
99593	2002 <i>GY</i> ₂₁	12 25.9 288°32	1°5/25.9 18				312726	2010 <i>RW</i> ₁₀₅	12 25.9 193°69	2°2/26.1 18			
11 17	6 49.46	+26 22.2	1.714	2.501	16.6	20.1	11 17	6 46.62	+17 30.0	2.035	2.808	14.8	21.4
11 27	6 45.46	+26 38.3	1.626	2.497	13.2	19.9	11 27	6 42.45	+17 15.2	1.946	2.807	11.8	21.2
12 7	6 38.35	+26 54.8	1.560	2.493	9.2	19.7	12 7	6 35.86	+17 5.2	1.880	2.807	8.3	21.0
12 17	6 28.73	+27 8.3	1.518	2.489	4.6	19.4	12 17	6 27.39	+17 0.2	1.839	2.807	4.5	20.8
12 27	6 17.75	+27 15.8	1.503	2.485	1.6	19.2	12 27	6 17.95	+17 0.0	1.827	2.806	2.3	20.6
1 6	6 6.89	+27 15.7	1.518	2.482	5.7	19.4	1 6	6 8.63	+17 4.1	1.844	2.806	5.2	20.8
1 16	5 57.55	+27 8.6	1.559	2.478	10.2	19.7	1 16	6 0.47	+17 12.3	1.890	2.805	9.0	21.0
1 26	5 50.87	+26 56.9	1.624	2.474	14.2	19.9	1 26	5 54.33	+17 24.0	1.961	2.805	12.4	21.2
317760	2003 <i>SP</i> ₈₀	12 25.9 111°58	5°4/25.7 18				493233	2014 <i>UL</i> ₇₇	12 25.9 340°85				

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	
417364	2006 <i>FF</i> ₅₅	12 25.9 314°41 7°3/26.4 18						387347	2012 <i>WH</i> ₁₃	12 25.9 186°60 1°3/26.1 18				
11 17	6 42.93	+ 4 0.8	2.133	2.876	15.1	21.5	11 17	6 50.32	+19 25.4	2.075	2.841	14.8	22.1	
11 27	6 39.41	+ 3 6.1	2.042	2.868	12.8	21.3	11 27	6 45.38	+19 21.8	1.983	2.841	11.8	21.9	
12 7	6 33.72	+ 2 23.2	1.972	2.860	10.3	21.1	12 7	6 37.89	+19 22.1	1.913	2.841	8.2	21.6	
12 17	6 26.35	+ 1 55.6	1.926	2.852	8.2	21.0	12 17	6 28.42	+19 25.5	1.870	2.839	4.2	21.4	
12 27	6 18.08	+ 1 46.3	1.907	2.845	7.3	20.9	12 27	6 17.90	+19 31.0	1.856	2.838	1.4	21.2	
1 6	6 9.84	+ 1 56.1	1.915	2.838	8.4	21.0	1 6	6 7.47	+19 37.8	1.872	2.835	4.9	21.4	
1 16	6 2.56	+ 2 23.7	1.950	2.831	10.7	21.1	1 16	5 58.24	+19 45.6	1.917	2.832	8.9	21.7	
1 26	5 57.04	+ 3 6.1	2.008	2.824	13.3	21.2	1 26	5 51.13	+19 54.6	1.988	2.828	12.4	21.9	
346394	2008 <i>SL</i> ₁₀₀	12 25.9 183°02 2°7/25.6 18						125132	2001 <i>UF</i> ₅₈	12 25.9 315°91 3°7/26.0 18				
11 17	6 53.46	+29 2.6	2.153	2.916	14.4	22.0	11 17	6 47.68	+16 39.7	1.515	2.306	18.3	19.3	
11 27	6 48.03	+29 42.2	2.062	2.917	11.5	21.8	11 27	6 44.20	+16 0.0	1.430	2.300	14.7	19.0	
12 7	6 39.82	+30 21.2	1.993	2.918	8.1	21.6	12 7	6 37.57	+15 25.4	1.365	2.295	10.5	18.7	
12 17	6 29.39	+30 55.4	1.951	2.917	4.5	21.4	12 17	6 28.42	+14 57.7	1.323	2.289	6.1	18.5	
12 27	6 17.75	+31 20.7	1.939	2.916	2.7	21.3	12 27	6 17.91	+14 38.5	1.307	2.284	3.8	18.3	
1 6	6 6.17	+31 34.8	1.957	2.914	5.5	21.4	1 6	6 7.51	+14 28.4	1.319	2.279	7.0	18.5	
1 16	5 55.88	+31 37.9	2.005	2.911	9.1	21.6	1 16	5 58.66	+14 27.8	1.356	2.274	11.5	18.8	
1 26	5 47.92	+31 32.5	2.078	2.908	12.4	21.8	1 26	5 52.48	+14 36.0	1.416	2.270	15.7	19.0	
166078	2002 <i>CS</i> ₁₀₂	12 25.9 272°70 5°2/25.6 18						129040	2004 <i>UY</i> ₅	12 25.9 270°24 4°2/25.3 18				
11 17	6 52.53	+34 55.1	1.760	2.537	16.7	20.2	11 17	6 49.17	+33 27.0	2.221	2.989	13.9	20.0	
11 27	6 48.31	+35 35.9	1.666	2.524	13.6	20.0	11 27	6 44.77	+34 19.0	2.131	2.986	11.2	19.8	
12 7	6 40.60	+36 11.9	1.592	2.512	10.1	19.8	12 7	6 37.66	+35 8.3	2.064	2.983	8.2	19.6	
12 17	6 29.97	+36 36.7	1.542	2.499	6.7	19.5	12 17	6 28.38	+35 49.9	2.024	2.981	5.4	19.4	
12 27	6 17.68	+36 44.4	1.519	2.486	5.3	19.4	12 27	6 17.91	+36 19.2	2.011	2.978	4.3	19.4	
1 6	6 5.38	+36 32.5	1.524	2.473	7.6	19.5	1 6	6 7.47	+36 33.9	2.029	2.975	6.2	19.5	
1 16	5 54.76	+36 2.8	1.556	2.460	11.3	19.7	1 16	5 58.27	+36 34.2	2.074	2.972	9.2	19.7	
1 26	5 47.14	+35 20.4	1.611	2.447	15.0	19.9	1 26	5 51.31	+36 22.9	2.144	2.970	12.2	19.9	
182260	2001 <i>GA</i> ₃	12 25.9 192°57 8°2/27.6 18						150408	2000 <i>EZ</i> ₁₅₇	12 25.9 331°26 10°1/25.6 18				
11 17	6 50.35	- 1 52.8	2.248	2.946	15.6	21.4	11 17	6 42.10	+ 7 46.0	1.209	2.010	21.4	19.3	
11 27	6 45.07	- 2 19.9	2.155	2.944	13.5	21.2	11 27	6 40.52	+ 6 9.8	1.126	1.993	18.1	19.0	
12 7	6 37.52	- 2 30.4	2.082	2.941	11.2	21.0	12 7	6 35.51	+ 4 44.2	1.061	1.976	14.5	18.7	
12 17	6 28.20	- 2 20.5	2.034	2.937	9.1	20.9	12 17	6 27.60	+ 3 37.2	1.016	1.961	11.3	18.5	
12 27	6 17.91	- 1 48.2	2.012	2.932	8.2	20.8	12 27	6 17.99	+ 2 56.7	0.994	1.946	10.2	18.4	
1 6	6 7.63	- 0 54.4	2.020	2.927	9.0	20.9	1 6	6 8.32	+ 2 46.9	0.994	1.933	12.1	18.4	
1 16	5 58.35	+ 0 18.0	2.055	2.920	11.0	21.0	1 16	6 0.26	+ 3 7.5	1.016	1.921	15.9	18.6	
1 26	5 50.89	+ 1 43.9	2.116	2.912	13.4	21.1	1 26	5 55.18	+ 3 53.6	1.057	1.910	19.9	18.8	
480411	2015 <i>KN</i> ₉₁	12 25.9 180°59 2°1/26.1 18						192985	2000 <i>DA</i> ₆₅	12 25.9 277°87 4°1/25.7 17				
11 17	6 50.62	+18 3.6	1.780	2.554	16.6	22.3	11 17	6 48.99	+35 17.1	2.368	3.130	13.3	20.2	
11 27	6 46.01	+17 55.4	1.693	2.555	13.2	22.1	11 27	6 44.50	+35 45.7	2.267	3.118	10.8	20.0	
12 7	6 38.53	+17 52.8	1.627	2.556	9.3	21.8	12 7	6 37.40	+36 9.2	2.189	3.105	8.0	19.8	
12 17	6 28.78	+17 55.4	1.587	2.556	4.9	21.6	12 17	6 28.24	+36 23.6	2.137	3.092	5.3	19.6	
12 27	6 17.84	+18 2.4	1.575	2.556	2.1	21.4	12 27	6 17.94	+36 25.1	2.113	3.079	4.2	19.5	
1 6	6 7.02	+18 12.9	1.592	2.555	5.7	21.6	1 6	6 7.68	+36 12.5	2.119	3.066	6.0	19.6	
1 16	5 57.59	+18 26.1	1.637	2.554	10.0	21.9	1 16	5 58.60	+35 47.0	2.154	3.053	8.9	19.8	
1 26	5 50.60	+18 41.7	1.706	2.552	13.9	22.1	1 26	5 51.67	+35 11.8	2.213	3.041	11.8	20.0	
471932	2013 <i>PY</i> ₄₅	12 25.9 165°47 2°9/26.1 16						291560	2006 <i>FB</i> ₉	12 25.9 254°25 0°2/26.0 18				
11 17	6 52.12	+17 39.6	1.465	2.251	19.0	22.2	11 17	6 45.94	+22 17.7	2.680	3.443	11.9	21.8	
11 27	6 47.75	+17 14.6	1.385	2.254	15.2	21.9	11 27	6 41.53	+22 24.5	2.568	3.426	9.4	21.6	
12 7	6 40.00	+16 55.5	1.325	2.256	10.8	21.7	12 7	6 35.09	+22 33.2	2.480	3.408	6.5	21.4	
12 17	6 29.58	+16 42.7	1.289	2.258	5.9	21.4	12 17	6 27.04	+22 42.5	2.420	3.391	3.2	21.2	
12 27	6 17.75	+16 36.5	1.280	2.259	3.0	21.2	12 27	6 18.08	+22 51.3	2.389	3.373	0.4	20.9	
1 6	6 6.15	+16 36.4	1.298	2.260	6.7	21.4	1 6	6 9.06	+22 58.7	2.390	3.354	3.9	21.2	
1 16	5 56.28	+16 42.5	1.342	2.261	11.6	21.7	1 16	6 0.85	+23 4.4	2.421	3.335	7.3	21.4	
1 26	5 49.33	+16 54.1	1.410	2.262	15.9	22.0	1 26	5 54.23	+23 8.9	2.479	3.316	10.4	21.5	
103882	2000 <i>DE</i> ₅₀	12 25.9 43°62 0°5/25.9 18						372151	2008 <i>SQ</i> ₂₈₂	12 25.9 314°87 1°6/25.9 18				
11 17	6 50.84	+23 46.9	1.168	1.980	21.3	19.4	11 17	6 44.34	+20 13.1	2.086	2.865	14.3	20.4	
11 27	6 47.29	+23 55.4	1.116	2.000	16.8	19.1	11 27	6 40.81	+19 50.3	1.982	2.848	11.4	20.2	
12 7	6 39.84	+24 6.7	1.081	2.021	11.5	18.9	12 7	6 34.87	+19 29.3	1.901	2.832	8.0	19.9	
12 17	6 29.45	+24 17.4	1.069	2.043	5.5	18.6	12 17	6 27.01	+19 10.2	1.845	2.815	4.1	19.7	
12 27	6 17.79	+24 24.6	1.082	2.065	0.8	18.4	12 27	6 18.09	+18 53.2	1.818	2.799	1.6	19.4	
1 6	6 6.80	+24 26.8	1.120	2.088	6.6	18.8	1 6	6 9.17	+18 38.7	1.820	2.784	5.0	19.6	
1 16	5 58.14	+24 24.9	1.183	2.111	11.9	19.2	1 16	6 1.29	+18 27.1	1.850	2.768	8.9	19.9	
1 26	5 52.92	+24 21.0	1.268	2.135	16.3	19.5	1 26	5 55.39	+18 19.3	1.905	2.753	12.5	20.0	
185973	2001 <i>KH</i> ₂₁	12 25.9 108°44 5°1/24.8 18						420576	2012 <i>HP</i> ₂₂	12 25.9 274°94 4°0/26.6 18				
11 17	7 0.59	+31 24.3	1.846	2.606	16.6	20.4	11 17	6 44.62	+10 53.9	2.214	2.972	14.2	21.1	
11 27	6 54.18	+33 7.6	1.780	2.631	13.3	20.2	11 27	6 40.74	+10 46.8	2.117	2.964	11.6	20.9	
12 7	6 44.31	+34 50.3	1.738	2.655	9.6	20.1	12 7	6 34.67	+10 49.3	2.042	2.957	8.6	20.7	
12 17	6 31.65	+36 23.8	1.722	2.678	6.3	19.9	12 17	6 26.86	+11 2.5	1.993	2.949	5.5	20.5	
12 27	6 17.52	+37 39.5	1.736	2.700	5.2	19.9	12 27	6 18.11	+11 26.4	1.972	2.941	4.0	20.4	
1 6	6 3.58	+38 32.7	1.781	2.722	7.5	20.1	1 6	6 9.36	+11 59.9	1.981	2.934	5.8	20.5	
1 16	5 51.44	+39 3.6	1.854	2.742	10.8	20.3	1 16	6 1.54	+12 41.3	2.018	2.926	8.9	20.7	
1 26	5 42.31	+39 16.4	1.952	2.762	13.8	20.6	1 26	5 55.50	+13 28.1	2.080	2.918	12.0	20.8	
18206	3093 <i>P-L</i>	12 25.9 210°24 2°5/26.0 18						222127	1999 <i>VJ</i> ₈₀	12 25.9 98°17 4°1/26.2 18				
11 17	6 50.47	+31 55.7	2.355	3.117	13.3	18.2	11 17	6 45.89	+12 26.5	2.				

EPHEMERIDES

12 25.9

12 25.9

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
478587	2012 <i>TQ</i> ₁₀₂		12 25.9	79°88'	2 ¹ /26.1	16	197465	2003 <i>YQ</i> ₁₃₁		12 25.9	305°62'	2 ⁷ /25.7	18
11 17	6 50.42	+19 16.1	1.578	2.364	17.9	21.2	11 17	6 46.48	+30 10.1	2.244	3.018	13.6	19.8
11 27	6 46.01	+18 54.2	1.508	2.376	14.2	21.0	11 27	6 42.54	+30 36.0	2.145	3.007	10.9	19.6
12 7	6 38.55	+18 36.6	1.457	2.389	9.9	20.7	12 7	6 36.09	+31 0.1	2.068	2.995	7.7	19.4
12 17	6 28.78	+18 23.3	1.431	2.401	5.1	20.5	12 17	6 27.63	+31 19.0	2.018	2.984	4.4	19.2
12 27	6 17.92	+18 14.0	1.432	2.413	2.1	20.3	12 27	6 18.06	+31 29.6	1.996	2.973	2.7	19.1
1 6	6 7.42	+18 8.7	1.462	2.425	5.9	20.6	1 6	6 8.50	+31 30.6	2.004	2.962	5.2	19.2
1 16	5 58.59	+18 7.4	1.518	2.438	10.4	20.9	1 16	6 0.06	+31 22.2	2.040	2.951	8.7	19.4
1 26	5 52.41	+18 10.4	1.598	2.450	14.4	21.2	1 26	5 53.68	+31 6.6	2.101	2.941	11.9	19.6
342357	2008 <i>TY</i> ₁₈₀		12 25.9	54°12'	2 ⁵ /26.3	17	381054	2006 <i>WQ</i> ₅₆		12 25.9	34°17'	2 ² /25.7	18
11 17	6 44.82	+15 37.6	2.148	2.918	14.2	20.7	11 17	6 50.07	+24 58.8	1.286	2.093	20.1	20.4
11 27	6 40.78	+15 29.5	2.073	2.931	11.3	20.5	11 27	6 46.87	+25 47.3	1.218	2.100	15.9	20.1
12 7	6 34.58	+15 27.8	2.020	2.944	8.0	20.3	12 7	6 39.83	+26 40.4	1.168	2.106	11.0	19.8
12 17	6 26.75	+15 32.6	1.993	2.958	4.5	20.1	12 17	6 29.66	+27 32.8	1.142	2.114	5.6	19.6
12 27	6 18.15	+15 43.5	1.995	2.972	2.5	20.0	12 27	6 17.84	+28 17.9	1.140	2.122	2.4	19.4
1 6	6 9.76	+15 59.5	2.026	2.986	4.9	20.2	1 6	6 6.27	+28 51.4	1.165	2.130	6.9	19.7
1 16	6 2.48	+16 19.8	2.086	3.001	8.3	20.5	1 16	5 56.76	+29 12.5	1.215	2.139	12.1	20.0
1 26	5 57.05	+16 43.1	2.171	3.015	11.4	20.7	1 26	5 50.63	+29 23.4	1.288	2.148	16.5	20.3
100395	1995 <i>WG</i> ₃₈		12 25.9	319°92'	5 ⁴ /25.3	17	146437	2001 <i>QK</i> ₂₈₂		12 25.9	80°41'	0 ⁷ /26.2	18
11 17	6 48.52	+32 38.4	1.530	2.325	17.9	20.1	11 17	6 50.10	+18 10.4	1.953	2.722	15.5	19.5
11 27	6 45.68	+33 36.2	1.439	2.310	14.6	19.8	11 27	6 45.21	+18 51.2	1.883	2.743	12.2	19.3
12 7	6 39.14	+34 32.8	1.367	2.295	10.7	19.6	12 7	6 37.76	+19 39.4	1.835	2.764	8.4	19.1
12 17	6 29.44	+35 21.2	1.319	2.281	6.9	19.3	12 17	6 28.35	+20 32.4	1.813	2.784	4.1	18.9
12 27	6 17.82	+35 54.0	1.297	2.267	5.4	19.2	12 27	6 18.00	+21 26.8	1.822	2.804	0.8	18.7
1 6	6 6.07	+36 6.9	1.302	2.254	8.2	19.3	1 6	6 7.88	+22 19.4	1.860	2.825	4.8	19.0
1 16	5 56.05	+36 0.2	1.331	2.241	12.4	19.5	1 16	5 59.09	+23 7.8	1.927	2.844	8.7	19.3
1 26	5 49.25	+35 38.5	1.382	2.230	16.4	19.7	1 26	5 52.50	+23 51.4	2.021	2.864	12.1	19.5
46250	2001 <i>HP</i> ₂₈		12 25.9	178°25'	1 ¹ /26.1	18	493058	2014 <i>SR</i> ₂₈₁		12 25.9	70°64'	0 ⁶ /25.9	17
11 17	6 45.40	+19 42.0	2.728	3.488	11.8	19.2	11 17	6 47.20	+23 46.1	2.170	2.944	14.0	21.5
11 27	6 40.86	+19 33.4	2.634	3.489	9.3	19.0	11 27	6 42.77	+24 5.9	2.095	2.958	11.0	21.3
12 7	6 34.47	+19 27.2	2.564	3.490	6.4	18.9	12 7	6 36.01	+24 27.5	2.042	2.973	7.5	21.2
12 17	6 26.67	+19 23.0	2.521	3.490	3.3	18.6	12 17	6 27.48	+24 48.7	2.016	2.987	3.6	20.9
12 27	6 18.17	+19 20.5	2.509	3.491	1.2	18.5	12 27	6 18.11	+25 7.3	2.019	3.002	0.7	20.7
1 6	6 9.76	+19 19.3	2.528	3.490	3.9	18.7	1 6	6 8.94	+25 21.8	2.052	3.017	4.4	21.0
1 16	6 2.21	+19 19.5	2.577	3.490	7.0	18.9	1 16	6 0.98	+25 32.1	2.114	3.031	8.1	21.3
1 26	5 56.19	+19 21.3	2.653	3.489	9.8	19.1	1 26	5 55.02	+25 39.0	2.202	3.046	11.3	21.5
99916	1998 <i>AA</i> ₅		12 25.9	64°62'	0 ¹ /25.9	18	404351	2013 <i>GH</i> ₉		12 25.9	192°89'	1 ⁸ /26.1	17
11 17	6 50.15	+24 23.7	1.811	2.592	16.1	18.6	11 17	6 47.45	+18 8.2	2.154	2.922	14.3	22.3
11 27	6 45.38	+24 4.3	1.742	2.610	12.7	18.4	11 27	6 43.02	+17 58.4	2.062	2.921	11.4	22.1
12 7	6 37.87	+23 44.3	1.695	2.628	8.6	18.2	12 7	6 36.24	+17 52.9	1.993	2.920	7.9	21.9
12 17	6 28.36	+23 22.6	1.673	2.645	4.2	18.0	12 17	6 27.64	+17 51.5	1.950	2.919	4.2	21.7
12 27	6 17.99	+22 58.9	1.680	2.663	0.5	17.8	12 27	6 18.09	+17 53.8	1.937	2.917	1.9	21.5
1 6	6 8.03	+22 33.7	1.716	2.681	5.0	18.1	1 6	6 8.63	+17 59.3	1.953	2.915	4.9	21.7
1 16	5 59.64	+22 8.7	1.780	2.699	9.2	18.4	1 16	6 0.27	+18 7.6	1.998	2.913	8.6	21.9
1 26	5 53.65	+21 45.7	1.869	2.717	12.7	18.7	1 26	5 53.86	+18 18.4	2.069	2.910	11.9	22.1
24286	1999 <i>XU</i> ₁₈₈		12 25.9	68°53'	3 ⁹ /25.9	18	454930	2015 <i>TS</i> ₁₅₈		12 25.9	3°63'	1 ⁶ /26.1	18
11 17	6 58.04	+31 25.9	1.350	2.140	20.2	18.2	11 17	6 46.61	+19 26.8	1.674	2.463	16.9	21.1
11 27	6 52.62	+31 51.1	1.299	2.168	16.0	18.0	11 27	6 43.07	+19 17.8	1.591	2.462	13.4	20.8
12 7	6 43.27	+32 11.1	1.267	2.196	11.2	17.8	12 7	6 36.64	+19 13.5	1.529	2.462	9.3	20.6
12 17	6 31.05	+32 19.6	1.258	2.224	6.4	17.6	12 17	6 27.94	+19 13.4	1.492	2.463	4.8	20.3
12 27	6 17.70	+32 12.5	1.276	2.252	3.9	17.6	12 27	6 18.06	+19 16.8	1.482	2.464	1.7	20.1
1 6	6 5.19	+31 49.7	1.321	2.280	7.1	17.8	1 6	6 8.32	+19 22.8	1.500	2.465	5.6	20.4
1 16	5 55.17	+31 15.2	1.392	2.308	11.5	18.1	1 16	6 0.02	+19 31.1	1.544	2.466	10.1	20.7
1 26	5 48.68	+30 35.0	1.486	2.335	15.4	18.4	1 26	5 54.17	+19 41.5	1.613	2.468	14.1	20.9
365023	2008 <i>QT</i> ₄₇		12 25.9	164°06'	7 ¹ /26.9	18	198297	2004 <i>TR</i> ₃₁₄		12 25.9	152°98'	0 ¹ /26.0	18
11 17	6 43.84	- 0 42.3	2.735	3.439	13.0	21.9	11 17	6 51.70	+23 8.9	2.003	2.773	15.1	21.6
11 27	6 39.52	- 1 29.1	2.651	3.443	11.2	21.8	11 27	6 46.54	+23 9.2	1.919	2.780	12.0	21.4
12 7	6 33.49	- 2 3.6	2.588	3.446	9.3	21.7	12 7	6 38.71	+23 11.0	1.857	2.787	8.2	21.1
12 17	6 26.18	- 2 22.8	2.550	3.449	7.7	21.6	12 17	6 28.84	+23 12.3	1.821	2.793	4.0	20.9
12 27	6 18.23	- 2 24.7	2.540	3.452	7.1	21.5	12 27	6 17.96	+23 11.6	1.815	2.799	0.5	20.6
1 6	6 10.37	- 2 9.1	2.558	3.455	7.8	21.6	1 6	6 7.29	+23 8.4	1.839	2.804	4.8	21.0
1 16	6 3.29	- 1 37.3	2.603	3.457	9.3	21.7	1 16	5 57.97	+23 3.1	1.892	2.808	8.9	21.2
1 26	5 57.61	- 0 52.1	2.673	3.458	11.2	21.8	1 26	5 50.93	+22 57.0	1.971	2.812	12.5	21.5
330532	2007 <i>WW</i> ₁₄		12 25.9	84°54'	1 ⁶ /26.1	18	136826	1997 <i>SM</i> ₄		12 25.9	122°36'	2 ⁹ /26.2	18
11 17	6 55.08	+19 50.1	1.362	2.151	20.0	21.6	11 17	6 49.09	+14 52.9	2.401	3.153	13.4	20.8
11 27	6 49.97	+19 40.3	1.304	2.175	15.8	21.4	11 27	6 43.77	+14 29.6	2.325	3.172	10.7	20.6
12 7	6 41.36	+19 36.0	1.265	2.198	10.9	21.2	12 7	6 36.42	+14 11.6	2.272	3.190	7.6	20.4
12 17	6 30.14	+19 35.8	1.250	2.221	5.5	21.0	12 17	6 27.60	+13 59.5	2.247	3.208	4.5	20.3
12 27	6 17.80	+19 38.3	1.262	2.244	1.7	20.8	12 27	6 18.11	+13 53.6	2.251	3.225	2.9	20.2
1 6	6 6.07	+19 42.5	1.301	2.266	6.3	21.1	1 6	6 8.87	+13 53.8	2.286	3.241	4.9	20.4
1 16	5 56.44	+19 48.4	1.367	2.288	11.2	21.5	1 16	6 0.69	+13 59.7	2.351	3.257	7.9	20.6
1 26	5 49.93	+19 56.2	1.456	2.309	15.4	21.8	1 26	5 54.29	+14 10.5	2.443	3.272	10.8	20.8
108570	2001 <i>MH</i> ₂		12 25.9	89°90'	9 ⁵ /29.4	18							

EPHEMERIDES

12 25.9

12 26.0

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
332244	2006 <i>KC</i> ₃₁		12 25.9	98°67	0°6/25.9	17	15487	1999 <i>CC</i> ₆₃		12 26.0	225°75	1°5/26.1	18
11 17	6 46.50	+24 45.8	2.574	3.340	12.2	21.6	11 17	6 44.73	+18 35.1	2.757	3.517	11.7	18.6
11 27	6 41.84	+24 56.7	2.495	3.354	9.6	21.4	11 27	6 40.38	+18 22.9	2.655	3.510	9.3	18.5
12 7	6 35.18	+25 7.9	2.439	3.368	6.6	21.3	12 7	6 34.20	+18 13.4	2.578	3.503	6.5	18.3
12 17	6 27.03	+25 17.8	2.410	3.381	3.2	21.1	12 17	6 26.60	+18 6.7	2.527	3.495	3.4	18.1
12 27	6 18.18	+25 24.8	2.412	3.395	0.7	20.9	12 27	6 18.26	+18 2.5	2.507	3.488	1.5	17.9
1 6	6 9.52	+25 28.4	2.445	3.408	3.9	21.2	1 6	6 9.96	+18 0.7	2.518	3.480	4.0	18.1
1 16	6 1.86	+25 28.5	2.507	3.421	7.1	21.4	1 16	6 2.47	+18 1.3	2.559	3.472	7.1	18.3
1 26	5 55.91	+25 26.2	2.596	3.434	9.9	21.6	1 26	5 56.46	+18 4.2	2.627	3.463	9.9	18.4
517520	2014 <i>QV</i> ₄₅₂		12 25.9	6°17	12°4/28.0	16	294198	2007 <i>TO</i> ₄₂₁		12 26.0	79°98	5°1/27.2	18
11 17	6 38.29	- 3 5.9	1.451	2.208	20.5	20.4	11 17	6 48.66	+ 7 53.2	1.769	2.526	17.3	20.7
11 27	6 36.65	- 4 26.9	1.389	2.210	18.0	20.3	11 27	6 44.25	+ 7 58.4	1.697	2.541	14.2	20.5
12 7	6 32.28	- 5 24.8	1.344	2.214	15.4	20.1	12 7	6 37.20	+ 8 18.9	1.645	2.555	10.6	20.3
12 17	6 25.82	- 5 52.3	1.319	2.219	13.3	20.0	12 17	6 28.14	+ 8 55.5	1.618	2.570	7.0	20.1
12 27	6 18.31	- 5 44.6	1.315	2.227	12.4	20.0	12 27	6 18.10	+ 9 47.3	1.619	2.585	5.1	20.0
1 6	6 11.01	- 5 1.8	1.334	2.236	13.0	20.0	1 6	6 8.27	+10 51.1	1.648	2.600	6.8	20.2
1 16	6 5.08	+ 3 48.5	1.375	2.247	14.9	20.2	1 16	5 59.80	+12 2.8	1.705	2.614	10.2	20.4
1 26	6 1.46	- 2 12.6	1.436	2.259	17.2	20.4	1 26	5 53.58	+13 18.1	1.787	2.629	13.5	20.6
444852	2007 <i>VW</i> ₁₈₅		12 26.0	93°84	5°4/26.0	15	254755	2005 <i>PG</i> ₁₉		12 26.0	108°61	0°1/26.0	18
11 17	6 49.30	+11 22.1	1.885	2.645	16.3	22.0	11 17	6 49.95	+22 38.5	2.325	3.088	13.5	21.7
11 27	6 44.45	+10 20.0	1.814	2.661	13.2	21.8	11 27	6 44.64	+22 42.5	2.252	3.109	10.6	21.5
12 7	6 37.14	+ 9 25.8	1.765	2.677	9.9	21.6	12 7	6 37.12	+22 48.1	2.201	3.129	7.2	21.3
12 17	6 28.02	+ 8 42.3	1.742	2.692	6.7	21.5	12 17	6 27.99	+22 53.6	2.178	3.149	3.5	21.1
12 27	6 18.09	+ 8 12.2	1.746	2.707	5.5	21.4	12 27	6 18.13	+22 57.8	2.185	3.168	0.4	20.9
1 6	6 8.47	+ 7 56.4	1.779	2.723	7.2	21.6	1 6	6 8.54	+22 59.9	2.223	3.187	4.2	21.2
1 16	6 0.20	+ 7 54.6	1.840	2.737	10.3	21.8	1 16	6 0.13	+23 0.3	2.291	3.205	7.7	21.5
1 26	5 54.08	+ 8 5.1	1.924	2.752	13.3	22.0	1 26	5 53.66	+22 59.7	2.385	3.223	10.7	21.7
210056	2006 <i>PU</i> ₂₃		12 26.0	168°87	0°6/26.1	18	516390	1996 <i>TZ</i> ₄₆		12 26.0	126°77	2°8/26.2	18
11 17	6 49.06	+20 27.8	2.138	2.907	14.3	21.3	11 17	6 48.01	+15 36.5	2.294	3.052	13.8	22.0
11 27	6 44.35	+20 39.2	2.049	2.909	11.4	21.1	11 27	6 43.12	+15 9.7	2.213	3.064	11.0	21.8
12 7	6 37.19	+20 54.5	1.983	2.912	7.8	20.9	12 7	6 36.10	+14 47.8	2.156	3.076	7.8	21.7
12 17	6 28.13	+21 12.4	1.943	2.914	3.9	20.6	12 17	6 27.51	+14 31.5	2.125	3.087	4.6	21.5
12 27	6 18.07	+21 31.1	1.933	2.916	0.7	20.4	12 27	6 18.18	+14 21.3	2.123	3.098	2.9	21.4
1 6	6 8.10	+21 49.1	1.953	2.917	4.6	20.7	1 6	6 9.06	+14 17.2	2.152	3.109	5.0	21.6
1 16	5 59.29	+22 5.7	2.002	2.918	8.5	20.9	1 16	6 1.02	+14 19.1	2.211	3.119	8.2	21.8
1 26	5 52.51	+22 21.0	2.077	2.919	11.9	21.1	1 26	5 54.81	+14 26.4	2.295	3.129	11.2	22.0
1069	Planckia		12 26.0	290°67	4°8/26.8	18 R	31094	1997 <i>CN</i> ₂₈		12 26.0	33°01	7°4/28.0	18
11 17	6 43.50	+ 8 10.8	2.325	3.074	13.9	14.5	11 17	6 43.20	+ 0 52.1	2.035	2.769	16.0	18.2
11 27	6 39.77	+ 7 58.6	2.225	3.064	11.4	14.3	11 27	6 39.58	+ 0 35.3	1.966	2.784	13.6	18.1
12 7	6 33.98	+ 7 57.1	2.147	3.053	8.7	14.1	12 7	6 33.82	+ 0 35.8	1.918	2.799	10.9	17.9
12 17	6 26.56	+ 8 7.9	2.095	3.042	6.0	13.9	12 17	6 26.45	+ 0 56.1	1.892	2.814	8.6	17.8
12 27	6 18.24	+ 8 31.4	2.071	3.032	4.8	13.8	12 27	6 18.33	+ 1 36.8	1.893	2.830	7.4	17.8
1 6	6 9.89	+ 9 7.0	2.076	3.021	6.2	13.9	1 6	6 10.41	+ 2 36.1	1.922	2.847	8.2	17.9
1 16	6 2.40	+ 9 52.6	2.109	3.011	8.9	14.0	1 16	6 3.57	+ 3 50.1	1.977	2.864	10.3	18.0
1 26	5 56.56	+10 45.7	2.168	3.000	11.8	14.2	1 26	5 58.55	+ 5 13.9	2.057	2.881	12.7	18.2
298525	2003 <i>WF</i> ₅₁		12 26.0	113°51	4°9/25.7	18	52123	4217 <i>P-L</i>		12 26.0	123°53	0°1/26.0	18
11 17	6 55.75	+35 52.9	2.069	2.827	15.1	21.7	11 17	6 49.95	+23 22.7	1.971	2.745	15.2	20.4
11 27	6 49.94	+36 37.9	1.999	2.845	12.2	21.5	11 27	6 45.23	+23 27.0	1.889	2.753	12.0	20.2
12 7	6 41.12	+37 16.6	1.950	2.862	9.0	21.3	12 7	6 37.87	+23 32.8	1.830	2.761	8.2	20.0
12 17	6 30.03	+37 43.5	1.928	2.880	6.1	21.2	12 17	6 28.50	+23 38.3	1.797	2.769	4.0	19.8
12 27	6 17.87	+37 54.0	1.934	2.896	4.9	21.2	12 27	6 18.12	+23 41.8	1.793	2.776	0.5	19.5
1 6	6 6.06	+37 47.0	1.970	2.912	6.7	21.3	1 6	6 7.96	+23 42.3	1.819	2.784	4.8	19.8
1 16	5 55.91	+37 24.5	2.033	2.928	9.6	21.5	1 16	5 59.15	+23 40.2	1.873	2.791	8.9	20.1
1 26	5 48.40	+36 51.1	2.122	2.943	12.5	21.7	1 26	5 52.59	+23 36.8	1.952	2.797	12.4	20.3
71974	2000 <i>WB</i> ₁₃₁		12 26.0	243°55	2°9/26.0	18	289778	2005 <i>JR</i> ₉₇		12 26.0	290°19	1°6/26.2	18
11 17	6 50.86	+18 17.8	1.552	2.337	18.2	19.3	11 17	6 47.13	+18 52.2	1.823	2.604	16.0	21.0
11 27	6 46.75	+17 43.4	1.462	2.329	14.6	19.1	11 27	6 43.36	+18 50.5	1.730	2.597	12.8	20.8
12 7	6 39.39	+17 12.7	1.391	2.321	10.4	18.8	12 7	6 36.84	+18 54.0	1.659	2.590	8.9	20.6
12 17	6 29.39	+16 46.6	1.345	2.313	5.7	18.5	12 17	6 28.11	+19 2.4	1.613	2.583	4.6	20.3
12 27	6 17.93	+16 25.9	1.325	2.305	3.0	18.3	12 27	6 18.16	+19 14.4	1.595	2.577	1.6	20.1
1 6	6 6.52	+16 11.4	1.334	2.296	6.7	18.5	1 6	6 8.24	+19 28.8	1.605	2.570	5.4	20.3
1 16	5 56.68	+16 3.8	1.369	2.287	11.5	18.8	1 16	5 59.57	+19 44.9	1.644	2.564	9.7	20.6
1 26	5 49.60	+16 3.5	1.427	2.278	15.8	19.0	1 26	5 53.20	+20 2.2	1.706	2.557	13.6	20.8
436149	Edabel		12 26.0	65°07	1°4/25.8	18	220190	2002 <i>VM</i> ₈		12 26.0	37°12	0°7/25.9	18
11 17	6 53.89	+23 2.8	1.353	2.148	19.9	20.5	11 17	6 50.67	+24 5.8	1.273	2.080	20.3	19.8
11 27	6 49.34	+23 54.6	1.297	2.172	15.6	20.3	11 27	6 47.04	+23 33.3	1.207	2.088	16.1	19.6
12 7	6 41.15	+24 51.9	1.260	2.196	10.7	20.1	12 7	6 39.70	+23 0.0	1.160	2.098	11.0	19.3
12 17	6 30.16	+25 49.2	1.247	2.220	5.2	19.8	12 17	6 29.52	+22 25.1	1.135	2.108	5.4	19.0
12 27	6 17.87	+26 40.5	1.261	2.244	1.6	19.7	12 27	6 18.02	+21 48.8	1.136	2.119	0.9	18.8
1 6	6 6.08	+27 21.5	1.303	2.268	6.3	20.0	1 6	6 7.03	+21 12.7	1.163	2.130	6.5	19.2
1 16	5 56.39	+27 51.5	1.371	2.292	11.2	20.4	1 16	5 58.17	+20 39.5	1.215	2.142	11.8	19.5
1 26	5 49.95	+28 12.1	1.462	2.316	15.3	20.7	1 26	5 52.55	+20 11.8	1.290	2.154	16.3	19.8
298415	2003 <i>SF</i> ₃₂₂		12 26.0	6°51	4°9/26.9	18	453951	2012 <i>AA</i> ₇		12 26.0	9°02	0°9/26.1	17
11 17</													