

EPHEMERIDES

11 27.9

11 28.0

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
189076	2001 <i>HN</i>		11 27.9 110°38'	4.3/29.2	18		287018	2002 <i>QV</i> ₈₅		11 28.0 126°97'	3.9/25.9	18	
10 28	4 46.18	+32 24.7	2.295	3.117	12.0	19.2	10 28	4 37.76	+8 3.6	2.772	3.618	9.4	21.7
11 7	4 38.53	+33 31.0	2.223	3.120	9.2	19.0	11 7	4 31.84	+7 28.2	2.718	3.632	7.0	21.6
11 17	4 28.61	+34 27.6	2.176	3.123	6.3	18.8	11 17	4 24.71	+6 57.6	2.692	3.645	4.8	21.5
11 27	4 17.29	+35 10.7	2.159	3.125	4.4	18.7	11 27	4 16.95	+6 34.2	2.695	3.658	3.9	21.4
12 7	4 5.71	+35 38.7	2.172	3.128	5.3	18.8	12 7	4 9.27	+6 20.2	2.728	3.671	5.2	21.5
12 17	3 55.05	+35 52.3	2.215	3.131	7.8	19.0	12 17	4 2.29	+6 16.6	2.791	3.683	7.4	21.7
12 27	3 46.36	+35 55.2	2.285	3.133	10.7	19.1	12 27	3 56.60	+6 23.7	2.880	3.695	9.7	21.9
1 6	3 40.32	+35 52.2	2.378	3.136	13.2	19.3	1 6	3 52.55	+6 40.9	2.992	3.707	11.6	22.0
91342	1999 <i>JU</i> ₂₉		11 27.9 188°05'	2.5/26.9	18		489181	2006 <i>HB</i> ₄		11 28.0 254°35'	0.2/28.1	18	
10 28	4 42.18	+16 17.3	1.871	2.731	12.6	19.9	10 28	4 39.34	+23 2.8	2.574	3.422	10.0	22.6
11 7	4 35.56	+15 36.2	1.803	2.731	9.0	19.7	11 7	4 33.32	+22 50.7	2.484	3.406	7.2	22.4
11 17	4 26.90	+14 53.7	1.761	2.730	5.1	19.4	11 17	4 25.68	+22 33.5	2.420	3.389	3.9	22.1
11 27	4 17.12	+14 12.9	1.747	2.729	2.5	19.3	11 27	4 17.06	+22 11.7	2.386	3.372	0.5	21.8
12 7	4 7.33	+13 37.4	1.763	2.728	5.2	19.4	12 7	4 8.29	+21 47.1	2.382	3.355	3.2	22.0
12 17	3 58.61	+13 10.7	1.806	2.726	9.1	19.7	12 17	4 0.22	+21 22.1	2.409	3.338	6.6	22.2
12 27	3 51.87	+12 55.1	1.876	2.723	12.7	19.9	12 27	3 53.60	+20 59.4	2.464	3.320	9.7	22.4
1 6	3 47.65	+12 51.8	1.966	2.721	15.7	20.1	1 6	3 48.96	+20 41.5	2.542	3.302	12.4	22.6
397303	2006 <i>SL</i> ₂₂₆		11 27.9 126°31'	0.1/28.0	18		488224	2016 <i>AV</i> ₆		11 28.0 55°90'	4.1/29.9	17	
10 28	4 41.59	+23 14.8	1.983	2.838	12.3	21.4	10 28	4 41.76	+34 6.5	2.154	2.982	12.4	20.7
11 7	4 35.06	+22 48.4	1.919	2.845	8.7	21.2	11 7	4 35.31	+34 19.9	2.087	2.987	9.5	20.5
11 17	4 26.59	+22 15.3	1.881	2.851	4.7	21.0	11 17	4 26.81	+34 19.8	2.044	2.993	6.5	20.3
11 27	4 17.09	+21 36.9	1.871	2.858	0.5	20.6	11 27	4 17.16	+34 4.9	2.029	2.999	4.3	20.2
12 7	4 7.66	+20 56.3	1.891	2.864	3.8	20.9	12 7	4 7.51	+33 36.2	2.043	3.005	4.9	20.3
12 17	3 59.32	+20 17.3	1.940	2.870	7.8	21.2	12 17	3 58.96	+32 57.1	2.085	3.011	7.6	20.4
12 27	3 52.94	+19 43.8	2.015	2.876	11.3	21.4	12 27	3 52.43	+32 12.6	2.154	3.017	10.6	20.6
1 6	3 49.01	+19 18.5	2.113	2.881	14.3	21.6	1 6	3 48.45	+31 28.3	2.246	3.023	13.3	20.8
267792	2003 <i>SF</i> ₂₁₃		11 28.0 20°37'	0.8/27.8	18		117375	2004 <i>XY</i> ₁₄₈		11 28.0 332°20'	5.7/1.2	17	
10 28	4 41.87	+17 14.8	1.689	2.555	13.5	19.3	10 28	4 41.92	+39 31.1	2.018	2.830	13.7	19.4
11 7	4 35.56	+17 49.6	1.632	2.562	9.6	19.0	11 7	4 35.69	+39 26.1	1.938	2.823	11.0	19.2
11 17	4 27.00	+18 25.4	1.598	2.570	5.2	18.8	11 17	4 27.10	+39 1.7	1.882	2.816	8.1	19.0
11 27	4 17.15	+19 1.6	1.593	2.579	0.9	18.5	11 27	4 17.19	+38 15.8	1.851	2.809	6.0	18.8
12 7	4 7.25	+19 37.8	1.616	2.588	4.4	18.8	12 7	4 7.28	+37 10.2	1.849	2.803	6.2	18.9
12 17	3 58.51	+20 13.9	1.666	2.598	8.7	19.1	12 17	3 58.62	+35 49.8	1.874	2.797	8.6	19.0
12 27	3 51.94	+20 51.1	1.743	2.609	12.5	19.3	12 27	3 52.24	+34 22.3	1.926	2.792	11.6	19.2
1 6	3 48.12	+21 30.2	1.841	2.621	15.7	19.6	1 6	3 48.71	+32 55.5	2.001	2.786	14.4	19.3
440039	2002 <i>PL</i> ₁₅₈		11 28.0 122°23'	6.4/25.6	18		252115	2000 <i>WG</i> ₄₅		11 28.0 56°38'	1.4/27.8	18	
10 28	4 41.82	+2 5.6	2.202	3.038	11.9	21.8	10 28	4 47.43	+17 7.4	1.137	2.014	17.8	19.9
11 7	4 34.85	+1 26.2	2.158	3.057	9.3	21.7	11 7	4 40.04	+17 29.3	1.097	2.032	12.6	19.7
11 17	4 26.35	+0 57.5	2.139	3.075	7.1	21.6	11 17	4 29.54	+17 51.8	1.078	2.051	6.8	19.4
11 27	4 17.08	+0 43.1	2.148	3.092	6.4	21.6	11 27	4 17.42	+18 14.7	1.084	2.070	1.5	19.2
12 7	4 7.96	+0 45.0	2.186	3.108	7.6	21.7	12 7	4 5.54	+18 38.2	1.116	2.089	5.7	19.5
12 17	3 59.81	+1 3.4	2.251	3.124	9.8	21.9	12 17	3 55.61	+19 3.6	1.173	2.109	11.1	19.9
12 27	3 53.32	+1 37.2	2.342	3.140	12.2	22.1	12 27	3 48.87	+19 32.8	1.253	2.128	15.8	20.2
1 6	3 48.92	+2 23.6	2.454	3.154	14.3	22.3	1 6	3 45.82	+20 7.0	1.352	2.148	19.5	20.5
344168	2000 <i>YU</i> ₁₃₉		11 28.0 20°47'	6.4/30.4	18		59466	1999 <i>GE</i> ₅₄		11 28.0 231°38'	0.8/27.7	18	
10 28	4 40.34	+34 42.0	0.974	1.847	20.3	17.9	10 28	4 43.15	+20 13.2	1.827	2.686	13.0	20.6
11 7	4 35.65	+34 56.3	0.938	1.862	15.5	17.7	11 7	4 36.47	+19 54.3	1.750	2.677	9.2	20.4
11 17	4 27.34	+34 45.1	0.920	1.879	10.5	17.5	11 17	4 27.53	+19 31.0	1.698	2.669	5.0	20.1
11 27	4 17.17	+34 6.5	0.924	1.899	6.7	17.3	11 27	4 17.25	+19 4.7	1.673	2.660	0.9	19.8
12 7	4 7.38	+33 5.2	0.951	1.920	7.6	17.4	12 7	4 6.83	+18 38.1	1.678	2.650	4.4	20.0
12 17	3 59.88	+31 50.7	1.000	1.942	11.7	17.8	12 17	3 57.46	+18 14.5	1.712	2.640	8.8	20.3
12 27	3 55.97	+30 34.8	1.070	1.967	16.0	18.1	12 27	3 50.18	+17 57.3	1.771	2.630	12.8	20.5
1 6	3 56.01	+29 26.7	1.159	1.992	19.8	18.4	1 6	3 45.61	+17 49.1	1.852	2.619	16.1	20.7
362909	2012 <i>CE</i> ₃₀		11 28.0 124°70'	1.0/27.7	18		256909	2008 <i>DT</i> ₈₁		11 28.0 270°82'	4.4/25.9	17	
10 28	4 41.62	+17 58.9	2.080	2.937	11.7	20.8	10 28	4 38.86	+10 52.5	2.012	2.872	11.9	20.8
11 7	4 35.08	+18 7.3	2.014	2.940	8.3	20.6	11 7	4 33.18	+9 56.4	1.938	2.861	8.8	20.6
11 17	4 26.64	+18 14.9	1.973	2.943	4.5	20.4	11 17	4 25.66	+9 2.8	1.889	2.850	5.7	20.4
11 27	4 17.13	+18 22.3	1.961	2.946	1.0	20.2	11 27	4 17.08	+8 15.9	1.869	2.839	4.5	20.3
12 7	4 7.56	+18 30.4	1.978	2.949	3.9	20.4	12 7	4 8.40	+7 39.8	1.877	2.828	6.4	20.4
12 17	3 58.94	+18 40.4	2.025	2.952	7.7	20.6	12 17	4 0.59	+7 17.6	1.913	2.816	9.6	20.6
12 27	3 52.12	+18 53.9	2.099	2.955	11.1	20.9	12 27	3 54.49	+7 10.7	1.973	2.805	12.8	20.8
1 6	3 47.64	+19 12.2	2.195	2.958	14.0	21.1	1 6	3 50.64	+7 18.8	2.055	2.794	15.6	20.9
229508	2005 <i>WC</i> ₈₀		11 28.0 222°32'	1.3/28.5	18		224465	2005 <i>VE</i> ₄₄		11 28.0 125°09'	3.6/29.2	18	
10 28	4 43.73	+26 10.5	1.750	2.603	13.7	20.8	10 28	4 47.99	+30 18.8	1.678	2.520	14.8	21.0
11 7	4 36.97	+25 52.0	1.676	2.598	9.9	20.5	11 7	4 40.05	+30 40.3	1.620	2.532	11.0	20.7
11 17	4 27.80	+25 23.1	1.625	2.594	5.6	20.3	11 17	4 29.47	+30 48.7	1.585	2.543	6.9	20.5
11 27	4 17.24	+24 44.3	1.603	2.588	1.5	20.0	11 27	4 17.43	+30 41.8	1.577	2.555	3.7	20.4
12 7	4 6.61	+23 58.5	1.609	2.583	4.3	20.2	12 7	4 5.44	+30 20.7	1.597	2.565	5.2	20.5
12 17	3 57.20	+23 10.5	1.644	2.577	8.7	20.4	12 17	3 54.96	+29 49.5	1.646	2.576	9.0	20.7
12 27	3 50.09	+22 25.8	1.704	2.571	12.8	20.7	12 27	3 47.12	+29 14.4	1.720	2.585	12.7	21.0
1 6	3 45.87	+21 49.0	1.786	2.565	16.1	20.9	1 6	3 42.49	+28 41.4	1.816	2.595	15.9	21.2
362748	2011 <i>UX</i> ₃₃₅		11 28.0 281°94'	9.0/29.9	18		54255	2000 <i>JL</i> ₂₈		11 28.0 172°57'	1.4/28		

EPHEMERIDES

11 28.0

11 28.0

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
267539	2002 <i>PC</i> ₈₇		11 28.0	1°12' 23.4"	12.8	18	179758	2002 <i>RV</i> ₂₁₆		11 28.0	156°10'	3°6'	26.7 18
10 28	4 30.90	-16 27.0	0.873	1.721	24.4	18.7	10 28	4 44.47	+13 23.2	1.786	2.644	13.3	20.8
11 7	4 28.77	-19 55.3	0.856	1.716	23.5	18.6	11 7	4 37.19	+12 43.5	1.727	2.651	9.6	20.6
11 17	4 23.65	-22 33.4	0.855	1.713	23.4	18.6	11 17	4 27.81	+12 5.5	1.693	2.658	5.7	20.4
11 27	4 16.89	-24 5.2	0.868	1.712	24.1	18.7	11 27	4 17.32	+11 32.6	1.687	2.665	3.6	20.3
12 7	4 10.21	-24 25.2	0.893	1.715	25.4	18.8	12 7	4 6.90	+11 8.3	1.710	2.670	5.9	20.5
12 17	4 5.17	-23 37.3	0.931	1.720	26.9	18.9	12 17	3 57.66	+10 55.2	1.762	2.675	9.7	20.7
12 27	4 2.96	-21 52.0	0.979	1.727	28.4	19.1	12 27	3 50.54	+10 54.9	1.839	2.680	13.2	20.9
1 6	4 4.12	-19 24.3	1.037	1.737	29.8	19.3	1 6	3 46.04	+11 7.1	1.937	2.683	16.1	21.2
285193	1996 <i>VW</i> ₁₆		11 28.0	356°03'	0°6'	28.3 18	407223	2009 <i>VY</i> ₉₂		11 28.0	34°59'	2°0'	28.6 18
10 28	4 41.06	+23 23.8	1.806	2.666	13.0	21.0	10 28	4 42.11	+25 43.5	1.925	2.777	12.7	20.6
11 7	4 34.99	+23 23.4	1.738	2.665	9.3	20.7	11 7	4 35.67	+26 14.2	1.862	2.784	9.2	20.4
11 17	4 26.73	+23 16.7	1.694	2.664	5.1	20.5	11 17	4 27.08	+26 38.2	1.825	2.791	5.3	20.2
11 27	4 17.19	+23 4.2	1.677	2.664	0.9	20.2	11 27	4 17.26	+26 53.9	1.815	2.798	2.1	20.0
12 7	4 7.59	+22 47.5	1.689	2.663	4.0	20.4	12 7	4 7.38	+27 1.6	1.834	2.806	4.1	20.1
12 17	3 59.09	+22 29.6	1.730	2.663	8.3	20.7	12 17	3 58.58	+27 3.0	1.882	2.814	7.9	20.4
12 27	3 52.68	+22 14.2	1.795	2.663	12.1	20.9	12 27	3 51.83	+27 1.6	1.956	2.822	11.4	20.6
1 6	3 48.95	+22 4.3	1.883	2.664	15.3	21.1	1 6	3 47.72	+27 0.6	2.052	2.831	14.3	20.8
130292	2000 <i>ER</i> ₄₁		11 28.0	226°89'	3°0'	29.3 18	141307	2001 <i>YK</i> ₁₁₂		11 28.0	7°81'	3°9'	29.9 18
10 28	4 41.23	+30 55.4	2.481	3.312	10.9	20.1	10 28	4 40.18	+34 0.1	2.389	3.214	11.4	19.6
11 7	4 34.79	+31 16.6	2.403	3.309	8.2	19.9	11 7	4 34.13	+34 20.7	2.316	3.215	8.8	19.5
11 17	4 26.53	+31 28.6	2.350	3.305	5.3	19.7	11 17	4 26.19	+34 29.5	2.268	3.216	6.0	19.3
11 27	4 17.18	+31 29.9	2.326	3.301	3.1	19.5	11 27	4 17.17	+34 25.1	2.249	3.217	4.1	19.2
12 7	4 7.71	+31 20.8	2.332	3.298	4.1	19.6	12 7	4 8.08	+34 7.8	2.258	3.218	4.7	19.2
12 17	3 59.08	+31 3.3	2.368	3.294	6.8	19.8	12 17	3 59.91	+33 40.3	2.295	3.219	7.2	19.4
12 27	3 52.12	+30 41.1	2.431	3.290	9.7	19.9	12 27	3 53.51	+33 6.7	2.360	3.221	9.9	19.5
1 6	3 47.39	+30 18.1	2.517	3.285	12.3	20.1	1 6	3 49.44	+32 31.7	2.448	3.223	12.4	19.7
454511	2014 <i>OJ</i> ₁₉₇		11 28.0	78°71'	7°8'	24.2 18	523729	2014 <i>OX</i> ₃₉₃		11 28.0	14°53'	0°4'	28.9 17
10 28	4 37.68	- 0 45.6	2.150	2.987	12.1	21.4	10 28	4 23.35	+27 12.0	12.858	13.691	2.3	22.6
11 7	4 32.09	- 1 52.3	2.102	2.994	9.9	21.2	11 7	4 21.27	+27 12.8	12.796	13.707	1.7	22.5
11 17	4 24.96	- 2 46.5	2.079	3.001	8.2	21.1	11 17	4 18.95	+27 12.3	12.762	13.724	1.0	22.5
11 27	4 17.03	- 3 23.2	2.082	3.008	7.8	21.1	11 27	4 16.50	+27 10.6	12.759	13.741	0.4	22.4
12 7	4 9.16	- 3 39.5	2.113	3.015	9.0	21.2	12 7	4 14.04	+27 7.9	12.787	13.757	0.7	22.5
12 17	4 2.17	- 3 34.3	2.169	3.022	11.0	21.4	12 17	4 11.70	+27 4.4	12.846	13.774	1.4	22.5
12 27	3 56.74	- 3 9.1	2.248	3.029	13.2	21.5	12 27	4 9.60	+27 0.5	12.934	13.791	2.1	22.6
1 6	3 53.31	- 2 27.0	2.347	3.036	15.1	21.7	1 6	4 7.84	+26 56.7	13.049	13.808	2.7	22.7
394555	2007 <i>UW</i> ₈₅		11 28.0	19°79'	0°6'	27.8 18	237902	2002 <i>OY</i> ₁₁		11 28.0	119°88'	5°8'	25.3 18
10 28	4 41.71	+20 13.8	1.631	2.498	13.8	21.2	10 28	4 41.15	+ 5 45.6	2.090	2.937	12.0	21.1
11 7	4 35.56	+20 6.6	1.568	2.499	9.8	21.0	11 7	4 34.49	+ 4 43.5	2.044	2.954	9.2	20.9
11 17	4 27.06	+19 55.7	1.529	2.501	5.3	20.7	11 17	4 26.22	+ 3 49.2	2.024	2.970	6.7	20.8
11 27	4 17.24	+19 42.2	1.517	2.503	0.7	20.4	11 27	4 17.17	+ 3 7.3	2.032	2.986	5.9	20.8
12 7	4 7.38	+19 28.3	1.533	2.506	4.5	20.7	12 7	4 8.27	+ 2 41.0	2.069	3.001	7.3	20.9
12 17	3 58.74	+19 17.0	1.576	2.508	9.1	21.0	12 17	4 0.37	+ 2 31.9	2.134	3.016	9.9	21.1
12 27	3 52.35	+19 11.3	1.644	2.511	13.1	21.2	12 27	3 54.20	+ 2 39.6	2.224	3.030	12.4	21.3
1 6	3 48.81	+19 13.3	1.733	2.514	16.4	21.5	1 6	3 50.17	+ 3 2.3	2.334	3.044	14.7	21.5
218499	2004 <i>TO</i> ₇₅		11 28.0	1°88'	3°4'	26.6 18	357021	1999 <i>XT</i> ₂₂₄		11 28.0	13°65'	6°2'	1.1 17
10 28	4 36.22	+15 46.0	1.434	2.316	14.4	19.2	10 28	4 42.20	+37 50.6	1.311	2.155	17.9	19.9
11 7	4 31.79	+14 52.8	1.376	2.314	10.3	19.0	11 7	4 36.58	+37 35.0	1.253	2.159	14.0	19.7
11 17	4 25.06	+13 58.8	1.342	2.313	6.0	18.7	11 17	4 27.79	+36 53.3	1.215	2.164	9.8	19.4
11 27	4 17.05	+13 8.9	1.333	2.314	3.4	18.6	11 27	4 17.33	+35 44.1	1.201	2.170	6.6	19.3
12 7	4 9.05	+12 28.3	1.350	2.316	6.3	18.8	12 7	4 7.06	+34 11.9	1.212	2.177	7.0	19.3
12 17	4 2.28	+12 1.1	1.393	2.319	10.6	19.0	12 17	3 58.70	+32 26.1	1.249	2.185	10.5	19.5
12 27	3 57.74	+11 49.7	1.458	2.324	14.6	19.3	12 27	3 53.48	+30 38.8	1.310	2.195	14.5	19.8
1 6	3 55.98	+11 54.1	1.543	2.330	17.9	19.5	1 6	3 51.87	+29 0.0	1.391	2.205	18.1	20.1
399387	2001 <i>ST</i> ₁₄₄		11 28.0	64°63'	0°4'	27.9 18	2001	Einstein		11 28.0	223°26'	17°6'	1.9 18 R
10 28	4 41.22	+21 39.1	1.780	2.642	13.1	20.8	10 28	5 7.17	+55 32.1	1.360	2.100	22.7	16.2
11 7	4 34.95	+21 15.4	1.724	2.653	9.3	20.6	11 7	4 57.73	+58 1.4	1.298	2.094	20.6	16.0
11 17	4 26.61	+20 46.3	1.692	2.663	5.0	20.4	11 17	4 41.06	+59 58.3	1.252	2.087	18.8	15.9
11 27	4 17.19	+20 13.6	1.687	2.674	0.6	20.1	11 27	4 18.72	+61 4.0	1.225	2.080	17.7	15.8
12 7	4 7.87	+19 40.3	1.712	2.685	4.2	20.4	12 7	3 54.65	+61 7.2	1.219	2.073	17.8	15.8
12 17	3 59.76	+19 10.2	1.764	2.695	8.4	20.7	12 17	3 33.78	+60 11.2	1.231	2.065	18.9	15.8
12 27	3 53.74	+18 46.7	1.842	2.706	12.1	20.9	12 27	3 19.70	+58 32.6	1.263	2.056	20.8	15.9
1 6	3 50.31	+18 32.1	1.942	2.717	15.1	21.2	1 6	3 13.45	+56 32.8	1.310	2.047	22.9	16.1
520327	2014 <i>GJ</i> ₆₀		11 28.0	153°28'	0°4'	28.2 18	373408	1997 <i>EF</i> ₁₁		11 28.0	9°41'	2°2'	27.2 18
10 28	4 42.84	+23 29.7	2.136	2.985	11.7	22.3	10 28	4 36.85	+21 10.0	0.894	1.796	18.9	19.4
11 7	4 35.89	+23 15.4	2.070	2.992	8.4	22.1	11 7	4 33.14	+20 1.5	0.850	1.798	13.5	19.1
11 17	4 27.07	+22 54.7	2.030	2.999	4.6	21.9	11 17	4 26.08	+18 43.0	0.825	1.801	7.3	18.8
11 27	4 17.24	+22 28.6	2.019	3.005	0.6	21.6	11 27	4 17.19	+17 21.9	0.821	1.807	2.2	18.5
12 7	4 7.45	+21 59.2	2.038	3.011	3.6	21.9	12 7	4 8.46	+16 7.8	0.841	1.815	6.9	18.8
12 17	3 58.69	+21 29.7	2.087	3.016	7.4	22.1	12 17	4 1.67	+15 9.4	0.882	1.824	12.9	19.2
12 27	3 51.80	+21 3.5	2.162	3.020	10.8	22.4	12 27	3 58.14	+14 32.3	0.943	1.835	18.1	19.5
1 6	3 47.27	+20 43.6	2.261	3.024	13.6	22.6	1 6	3 58.35	+14 17.3	1.020	1.848	22.3	19.8
469781	2005 <i>QX</i> ₁₃₅		11 28.0	53°31'	1°7'	27.5 18	99702	2002 <i>JN</i> ₃₅		11 28.0			

EPHEMERIDES

11 28.0

11 28.0

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
167056	2003 <i>QB</i> ₈₂		11 28.0 27°30'	0.4/27.9	18		113479	2002 <i>TF</i>		11 28.0 49°67'	0.3/28.1	18	
10 28	4 42.42	+20 38.9	1.500	2.369	14.7	19.8	10 28	4 51.85	+18 21.5	1.085	1.958	18.7	18.0
11 7	4 36.22	+20 36.7	1.441	2.373	10.4	19.5	11 7	4 43.23	+19 35.1	1.055	1.988	13.2	17.8
11 17	4 27.49	+20 30.4	1.405	2.377	5.6	19.3	11 17	4 31.30	+20 47.6	1.046	2.018	7.1	17.5
11 27	4 17.34	+20 20.7	1.395	2.381	0.6	18.9	11 27	4 17.72	+21 54.4	1.062	2.049	0.8	17.2
12 7	4 7.16	+20 9.9	1.413	2.386	4.7	19.2	12 7	4 4.56	+22 52.5	1.105	2.080	5.5	17.7
12 17	3 58.33	+20 0.9	1.457	2.391	9.5	19.5	12 17	3 53.64	+23 42.1	1.174	2.111	11.0	18.1
12 27	3 51.96	+19 57.1	1.526	2.397	13.7	19.8	12 27	3 46.24	+24 25.9	1.266	2.142	15.6	18.4
1 6	3 48.62	+20 0.7	1.615	2.403	17.2	20.1	1 6	3 42.81	+25 7.1	1.378	2.174	19.2	18.8
512851	2016 <i>VT</i> ₈		11 28.0 21°64'	1.3/27.7	16		135840	2002 <i>SE</i> ₂₅		11 28.0 39°14'	1.4/28.5	18	
10 28	4 40.66	+20 1.3	1.156	2.041	16.9	21.6	10 28	4 43.08	+24 23.4	1.591	2.452	14.4	19.6
11 7	4 35.33	+19 37.8	1.109	2.049	12.0	21.3	11 7	4 36.64	+24 39.7	1.533	2.460	10.4	19.3
11 17	4 27.09	+19 9.5	1.084	2.058	6.5	21.0	11 17	4 27.72	+24 48.8	1.498	2.468	5.8	19.1
11 27	4 17.30	+18 39.4	1.082	2.068	1.3	20.7	11 27	4 17.40	+24 50.0	1.490	2.476	1.6	18.8
12 7	4 7.63	+18 11.7	1.105	2.079	5.6	21.1	12 7	4 7.07	+24 44.5	1.511	2.484	4.4	19.1
12 17	3 59.66	+17 50.9	1.153	2.091	11.0	21.4	12 17	3 58.08	+24 34.9	1.558	2.493	8.9	19.3
12 27	3 54.58	+17 40.7	1.223	2.104	15.6	21.7	12 27	3 51.52	+24 25.6	1.630	2.502	12.9	19.6
1 6	3 52.90	+17 42.6	1.312	2.118	19.4	22.0	1 6	3 47.96	+24 20.1	1.723	2.512	16.2	19.9
52871	1998 <i>SR</i> ₂₇		11 28.0 10°54'	10 ¹ /5.4	18		437578	2014 <i>AR</i> ₃₇		11 28.0 338°56'	3.4/27.1	18	
10 28	4 43.45	+50 15.8	0.913	1.738	25.4	17.3	10 28	4 41.21	+15 24.9	1.214	2.097	16.4	20.5
11 7	4 38.41	+48 37.1	0.858	1.742	21.1	17.0	11 7	4 35.84	+14 57.0	1.152	2.089	11.9	20.2
11 17	4 28.87	+45 58.3	0.819	1.748	16.2	16.8	11 17	4 27.51	+14 29.6	1.110	2.082	6.8	19.9
11 27	4 17.42	+42 18.1	0.800	1.757	11.7	16.6	11 27	4 17.39	+14 6.7	1.093	2.076	3.4	19.7
12 7	4 7.00	+37 52.0	0.805	1.768	10.1	16.5	12 7	4 7.10	+13 52.4	1.101	2.070	6.8	19.9
12 17	3 59.75	+33 8.9	0.836	1.781	12.9	16.7	12 17	3 58.26	+13 49.9	1.134	2.065	11.9	20.2
12 27	3 56.74	+28 40.3	0.892	1.797	17.5	17.0	12 27	3 52.18	+14 1.6	1.188	2.061	16.7	20.4
1 6	3 57.99	+24 47.9	0.969	1.814	21.8	17.4	1 6	3 49.58	+14 27.2	1.261	2.057	20.6	20.7
446840	2001 <i>SU</i> ₁₂₆		11 28.0 53°78'	1 ² /27.5	18		104170	2000 <i>EB</i> ₈₁		11 28.0 294°90'	3 ³ /27.1	18	
10 28	4 40.88	+19 51.2	1.697	2.563	13.4	21.1	10 28	4 42.43	+15 0.4	1.419	2.291	15.1	19.8
11 7	4 34.76	+19 19.1	1.643	2.574	9.5	20.9	11 7	4 36.58	+14 34.1	1.339	2.272	11.0	19.5
11 17	4 26.54	+18 43.1	1.614	2.586	5.1	20.6	11 17	4 27.91	+14 8.1	1.282	2.253	6.4	19.2
11 27	4 17.25	+18 5.6	1.612	2.598	1.2	20.4	11 27	4 17.44	+13 45.9	1.251	2.233	3.3	19.0
12 7	4 8.07	+17 30.3	1.639	2.610	4.6	20.7	12 7	4 6.59	+13 31.1	1.247	2.214	6.5	19.1
12 17	4 0.14	+17 0.8	1.693	2.623	8.8	20.9	12 17	3 56.88	+13 27.0	1.268	2.195	11.4	19.3
12 27	3 54.35	+16 40.3	1.773	2.635	12.5	21.2	12 27	3 49.64	+13 36.2	1.313	2.176	16.0	19.5
1 6	3 51.18	+16 30.4	1.873	2.648	15.6	21.4	1 6	3 45.67	+13 59.1	1.376	2.157	20.0	19.8
5826	Bradstreet		11 28.0 175°92'	1 ⁰ /27.5	18 R		130264	2000 <i>DZ</i> ₄₄		11 28.0 52°97'	11 ⁵ /4.1	18	
10 28	4 38.90	+18 50.4	2.644	3.496	9.7	17.5	10 28	4 52.20	+50 45.5	1.643	2.406	18.4	19.2
11 7	4 32.87	+18 32.0	2.573	3.497	6.8	17.3	11 7	4 43.95	+51 44.2	1.595	2.423	15.9	19.1
11 17	4 25.41	+18 11.4	2.528	3.498	3.7	17.1	11 17	4 31.91	+52 12.4	1.566	2.441	13.6	19.0
11 27	4 17.16	+17 50.0	2.514	3.499	1.0	16.9	11 27	4 17.80	+52 3.2	1.559	2.458	11.9	18.9
12 7	4 8.89	+17 29.6	2.530	3.500	3.4	17.1	12 7	4 3.92	+51 16.2	1.576	2.476	11.6	19.0
12 17	4 1.35	+17 12.4	2.577	3.500	6.5	17.3	12 17	3 52.39	+49 57.7	1.616	2.495	12.7	19.1
12 27	3 55.21	+17 0.1	2.651	3.500	9.3	17.5	12 27	3 44.65	+48 19.2	1.680	2.513	14.6	19.2
1 6	3 50.90	+16 54.3	2.749	3.500	11.7	17.6	1 6	3 41.19	+46 33.2	1.764	2.532	16.7	19.4
361230	2006 <i>SB</i> ₁₃₃		11 28.0 8°71'	6 ⁷ /30.9	18		299091	2005 <i>ES</i> ₆₇		11 28.0 36°44'	7 ⁶ /30.6	18	
10 28	4 44.08	+38 44.8	1.652	2.477	15.8	20.1	10 28	4 47.64	+39 38.4	1.717	2.531	15.7	19.8
11 7	4 37.66	+39 7.1	1.586	2.477	12.6	19.9	11 7	4 40.34	+40 38.0	1.652	2.533	12.7	19.7
11 17	4 28.38	+39 8.8	1.542	2.478	9.3	19.7	11 17	4 29.93	+41 18.4	1.609	2.536	9.8	19.5
11 27	4 17.44	+38 46.3	1.522	2.480	6.9	19.6	11 27	4 17.64	+41 34.1	1.591	2.539	7.8	19.4
12 7	4 6.48	+38 0.5	1.529	2.482	7.3	19.6	12 7	4 5.14	+41 23.4	1.599	2.542	8.2	19.4
12 17	3 57.05	+36 56.6	1.562	2.485	9.9	19.8	12 17	3 54.15	+40 50.0	1.634	2.545	10.5	19.6
12 27	3 50.41	+35 43.4	1.619	2.488	13.2	20.0	12 27	3 46.05	+40 1.7	1.693	2.548	13.4	19.8
1 6	3 47.15	+34 29.5	1.698	2.491	16.3	20.2	1 6	3 41.57	+39 7.3	1.773	2.551	16.3	20.0
334964	2004 <i>DS</i> ₄₃		11 28.0 246°42'	2 ⁶ /27.2	18		409674	2005 <i>YJ</i> ₂₆₆		11 28.0 338°02'	3 ¹ /29.6	17	
10 28	4 43.99	+15 54.7	1.737	2.598	13.4	21.7	10 28	4 40.28	+31 49.2	1.785	2.631	13.8	20.3
11 7	4 37.23	+15 29.1	1.656	2.583	9.7	21.5	11 7	4 34.63	+31 27.1	1.709	2.623	10.3	20.1
11 17	4 28.08	+15 2.7	1.599	2.568	5.5	21.2	11 17	4 26.64	+30 49.5	1.656	2.616	6.5	19.9
11 27	4 17.44	+14 37.9	1.569	2.552	2.6	21.0	11 27	4 17.32	+29 56.3	1.630	2.609	3.4	19.7
12 7	4 6.55	+14 17.9	1.569	2.536	5.5	21.1	12 7	4 7.95	+28 50.6	1.632	2.603	4.6	19.7
12 17	3 56.67	+14 5.7	1.596	2.519	9.8	21.4	12 17	3 59.79	+27 38.1	1.661	2.597	8.4	20.0
12 27	3 48.93	+14 3.9	1.649	2.501	13.9	21.6	12 27	3 53.88	+26 25.9	1.717	2.592	12.2	20.2
1 6	3 44.01	+14 13.6	1.723	2.483	17.3	21.8	1 6	3 50.78	+25 20.1	1.795	2.587	15.5	20.4
334167	2001 <i>SP</i> ₁₁₉		11 28.0 100°30'	2 ⁶ /29.1	18		494037	2016 <i>BD</i> ₅		11 28.0 322°87'	0 ² /28.1	17	
10 28	4 47.79	+29 12.3	1.691	2.534	14.6	21.3	10 28	4 39.02	+22 42.6	1.969	2.829	12.1	21.1
11 7	4 39.68	+29 8.2	1.642	2.557	10.6	21.1	11 7	4 33.52	+22 33.7	1.890	2.818	8.7	20.8
11 17	4 29.19	+28 51.2	1.617	2.579	6.3	20.9	11 17	4 25.99	+22 19.2	1.837	2.808	4.7	20.6
11 27	4 17.52	+28 21.0	1.619	2.601	2.8	20.7	11 27	4 17.26	+22 0.0	1.811	2.797	0.5	20.2
12 7	4 6.13	+27 40.4	1.651	2.622	4.5	20.9	12 7	4 8.39	+21 37.9	1.814	2.788	3.8	20.5
12 17	3 56.33	+26 54.5	1.711	2.643	8.5	21.2	12 17	4 0.43	+21 15.9	1.845	2.778	7.9	20.7
12 27	3 49.09	+26 9.3	1.798	2.663	12.2	21.4	12 27	3 54.34	+20 57.4	1.903	2.769	11.6	20.9
1 6	3 44.88	+25 29.9	1.906	2.683	15.3	21.7	1 6	3 50.68	+20 45.1	1.982	2.761	14.7	21.1
487414	2014 <i>QA</i> ₃₇₈		11 28.0 94°09'	7 ¹ /1.5	17		457154						

EPHEMERIDES

11 28.0

11 28.1

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
265158	2003 <i>WD</i> ₆₄	11 28.0 151°19' 0°2/28.1 18					301977	2000 <i>HY</i> ₃₉	11 28.1 326°64' 1°4/27.5 18				
10 28	4 40.33	+21 37.5	2.502	3.351	10.2	20.2	10 28	4 40.97	+18 33.1	1.787	2.651	12.9	20.5
11 7	4 34.02	+21 48.0	2.432	3.354	7.3	20.0	11 7	4 34.94	+18 13.8	1.719	2.649	9.2	20.3
11 17	4 26.10	+21 55.2	2.388	3.357	3.9	19.8	11 17	4 26.77	+17 52.0	1.676	2.647	5.0	20.1
11 27	4 17.28	+21 59.2	2.374	3.360	0.5	19.5	11 27	4 17.38	+17 29.7	1.660	2.645	1.4	19.8
12 7	4 8.39	+22 0.8	2.390	3.363	3.2	19.7	12 7	4 7.93	+17 9.3	1.673	2.643	4.6	20.0
12 17	4 0.28	+22 1.5	2.437	3.365	6.5	20.0	12 17	3 59.56	+16 54.0	1.713	2.642	8.8	20.3
12 27	3 53.70	+22 3.2	2.511	3.368	9.5	20.2	12 27	3 53.21	+16 46.3	1.779	2.640	12.6	20.5
1 6	3 49.12	+22 7.7	2.609	3.370	12.1	20.3	1 6	3 49.47	+16 47.7	1.867	2.639	15.8	20.7
355417	2007 <i>UB</i> ₁₂₂	11 28.0 282°72' 0°3/28.2 16					40756	1999 <i>TQ</i> ₈	11 28.1 176°66' 2°5/26.8 18				
10 28	4 42.15	+22 36.7	1.774	2.634	13.2	21.5	10 28	4 38.82	+15 52.2	2.171	3.031	11.1	18.7
11 7	4 35.92	+22 34.3	1.698	2.626	9.5	21.3	11 7	4 33.05	+15 4.6	2.104	3.031	7.9	18.5
11 17	4 27.36	+22 26.1	1.647	2.618	5.2	21.0	11 17	4 25.62	+14 16.0	2.063	3.031	4.6	18.3
11 27	4 17.41	+22 12.6	1.623	2.609	0.6	20.7	11 27	4 17.28	+13 29.4	2.051	3.032	2.5	18.1
12 7	4 7.28	+21 55.5	1.628	2.602	4.2	20.9	12 7	4 8.95	+12 48.4	2.068	3.032	4.7	18.3
12 17	3 58.23	+21 37.7	1.661	2.594	8.6	21.2	12 17	4 1.51	+12 16.0	2.115	3.032	8.1	18.5
12 27	3 51.32	+21 23.2	1.719	2.586	12.6	21.4	12 27	3 55.69	+11 54.6	2.187	3.032	11.2	18.7
1 6	3 47.18	+21 14.9	1.799	2.578	16.0	21.6	1 6	3 51.98	+11 44.9	2.282	3.031	13.9	18.9
213285	2001 <i>QY</i> ₂₆	11 28.0 122°62' 11°4/ 3.9 18					285243	1997 <i>YS</i> ₁₅	11 28.1 13°26' 2°6/28.9 18				
10 28	4 56.70	+55 17.2	2.196	2.903	15.9	19.9	10 28	4 44.03	+27 44.5	1.155	2.028	17.9	20.3
11 7	4 47.18	+56 36.5	2.136	2.913	14.2	19.8	11 7	4 38.09	+27 39.9	1.098	2.029	13.1	20.0
11 17	4 33.81	+57 29.8	2.096	2.921	12.6	19.7	11 17	4 28.81	+27 20.5	1.062	2.031	7.7	19.7
11 27	4 18.04	+57 49.6	2.079	2.930	11.6	19.6	11 27	4 17.60	+26 45.8	1.049	2.033	2.8	19.4
12 7	4 2.03	+57 33.4	2.086	2.938	11.4	19.6	12 7	4 6.38	+25 59.2	1.062	2.037	5.6	19.6
12 17	3 47.97	+56 44.5	2.116	2.946	12.1	19.7	12 17	3 57.01	+25 7.8	1.099	2.040	11.0	19.9
12 27	3 37.52	+55 31.5	2.170	2.954	13.4	19.8	12 27	3 50.89	+24 19.9	1.159	2.045	15.9	20.2
1 6	3 31.42	+54 5.1	2.244	2.962	15.0	19.9	1 6	3 48.61	+23 41.6	1.237	2.049	20.0	20.5
139406	2001 <i>OD</i> ₄	11 28.0 43°94' 6°0/30.5 18					56122	1999 <i>CS</i> ₂₀	11 28.1 187°87' 3°4/29.3 18				
10 28	4 45.01	+36 59.3	1.731	2.557	15.1	18.7	10 28	4 46.23	+30 29.4	1.815	2.654	13.9	19.0
11 7	4 38.18	+37 29.4	1.669	2.563	11.8	18.5	11 7	4 38.88	+30 45.5	1.743	2.654	10.4	18.8
11 17	4 28.63	+37 41.4	1.629	2.570	8.5	18.3	11 17	4 29.00	+30 49.2	1.695	2.653	6.6	18.6
11 27	4 17.54	+37 31.9	1.615	2.577	6.2	18.2	11 27	4 17.62	+30 38.5	1.674	2.652	3.6	18.4
12 7	4 6.42	+37 1.6	1.628	2.584	6.7	18.2	12 7	4 6.13	+30 14.3	1.682	2.651	4.9	18.5
12 17	3 56.78	+36 14.8	1.668	2.591	9.4	18.4	12 17	3 55.90	+29 40.3	1.719	2.649	8.7	18.7
12 27	3 49.78	+35 19.0	1.733	2.598	12.6	18.6	12 27	3 48.07	+29 2.4	1.782	2.647	12.4	18.9
1 6	3 46.03	+34 22.0	1.820	2.606	15.6	18.8	1 6	3 43.27	+28 26.3	1.866	2.644	15.6	19.1
74573	1999 <i>NB</i> ₁₁	11 28.0 55°78' 4°9/29.8 18					514115	2015 <i>DV</i> ₂₃₀	11 28.1 95°64' 6°3/26.4 18				
10 28	4 47.37	+32 44.1	1.211	2.068	18.3	18.7	10 28	4 43.66	+ 6 55.4	1.499	2.360	15.1	21.5
11 7	4 40.26	+32 55.5	1.166	2.083	13.8	18.5	11 7	4 36.93	+ 6 21.1	1.448	2.368	11.4	21.3
11 17	4 29.82	+32 46.9	1.141	2.100	8.9	18.3	11 17	4 27.84	+ 5 56.7	1.420	2.376	7.9	21.1
11 27	4 17.64	+32 16.0	1.140	2.116	5.2	18.1	11 27	4 17.50	+ 5 46.7	1.417	2.383	6.3	21.0
12 7	4 5.75	+31 26.1	1.164	2.133	6.5	18.3	12 7	4 7.23	+ 5 53.9	1.442	2.391	8.2	21.2
12 17	3 55.97	+30 24.8	1.214	2.150	10.7	18.6	12 17	3 58.29	+ 6 18.9	1.493	2.398	11.7	21.4
12 27	3 49.57	+29 21.9	1.287	2.168	15.0	18.9	12 27	3 51.68	+ 7 0.4	1.567	2.405	15.2	21.6
1 6	3 47.04	+28 25.5	1.379	2.185	18.7	19.2	1 6	3 47.97	+ 7 55.5	1.660	2.412	18.2	21.9
26124	1992 <i>PG</i> ₂	11 28.1 87°92' 3°2/26.7 18					433582	2013 <i>YV</i> ₃₄	11 28.1 49°62' 2°7/27.5 18				
10 28	4 42.46	+13 50.8	1.990	2.847	12.1	18.8	10 28	4 44.96	+15 2.7	1.234	2.110	16.7	20.2
11 7	4 35.45	+13 4.5	1.950	2.875	8.7	18.6	11 7	4 38.19	+15 3.7	1.191	2.125	11.9	19.9
11 17	4 26.77	+12 20.0	1.937	2.902	5.1	18.5	11 17	4 28.62	+15 7.4	1.169	2.141	6.7	19.7
11 27	4 17.35	+11 40.6	1.952	2.929	3.2	18.4	11 27	4 17.58	+15 15.4	1.173	2.157	2.7	19.5
12 7	4 8.17	+11 9.6	1.996	2.956	5.3	18.6	12 7	4 6.71	+15 29.2	1.203	2.173	6.1	19.8
12 17	4 0.15	+10 49.2	2.070	2.982	8.5	18.8	12 17	3 57.55	+15 50.2	1.259	2.190	11.0	20.1
12 27	3 54.01	+10 40.7	2.169	3.008	11.6	19.1	12 27	3 51.23	+16 19.1	1.337	2.207	15.3	20.4
1 6	3 50.14	+10 44.0	2.291	3.033	14.1	19.3	1 6	3 48.29	+16 55.9	1.435	2.225	18.9	20.7
274403	2008 <i>RH</i> ₁₂₈	11 28.1 270°53' 5°2/25.3 17					84602	2002 <i>VX</i> ₃₂	11 28.1 31°23' 0°6/27.8 18				
10 28	4 37.33	+ 6 37.3	2.293	3.145	10.9	21.1	10 28	4 40.95	+21 7.0	1.547	2.416	14.3	19.3
11 7	4 31.93	+ 5 43.7	2.226	3.140	8.3	20.9	11 7	4 35.08	+20 46.1	1.491	2.424	10.1	19.0
11 17	4 24.99	+ 4 55.9	2.185	3.134	6.0	20.8	11 17	4 26.87	+20 19.9	1.459	2.432	5.4	18.8
11 27	4 17.19	+ 4 18.0	2.171	3.129	5.2	20.7	11 27	4 17.41	+19 50.4	1.454	2.440	0.7	18.5
12 7	4 9.36	+ 3 53.2	2.187	3.123	6.7	20.8	12 7	4 8.02	+19 20.9	1.476	2.449	4.6	18.8
12 17	4 2.28	+ 3 43.4	2.230	3.118	9.2	20.9	12 17	3 59.95	+18 55.2	1.525	2.459	9.2	19.1
12 27	3 56.66	+ 3 49.0	2.298	3.112	11.8	21.1	12 27	3 54.20	+18 37.1	1.598	2.469	13.2	19.4
1 6	3 52.97	+ 4 8.8	2.387	3.107	14.1	21.3	1 6	3 51.31	+18 28.6	1.693	2.479	16.6	19.6
143	<i>Adria</i>	11 28.1 205°83' 5°6/30.6 18					420893	2013 <i>LE</i> ₂₂	11 28.1 96°54' 1°8/27.0 18				
10 28	4 45.20	+38 18.7	2.146	2.955	13.2	13.9	10 28	4 39.67	+18 18.8	2.308	3.163	10.7	21.4
11 7	4 38.03	+38 42.5	2.070	2.953	10.5	13.7	11 7	4 33.45	+17 23.0	2.253	3.179	7.6	21.2
11 17	4 28.48	+38 49.9	2.017	2.950	7.7	13.5	11 17	4 25.73	+16 24.7	2.226	3.195	4.2	21.0
11 27	4 17.54	+38 38.1	1.992	2.947	5.8	13.4	11 27	4 17.30	+15 26.9	2.228	3.211	1.8	20.9
12 7	4 6.49	+38 7.1	1.994	2.944	6.2	13.4	12 7	4 9.00	+14 33.3	2.261	3.227	4.1	21.1
12 17	3 56.61	+37 20.6	2.025	2.941	8.4	13.6	12 17	4 1.65	+13 47.2	2.323	3.242	7.4	21.3
12 27	3 48.97	+36 24.5	2.082	2.938	11.3	13.7	12 27	3 55.91	+13 11.3	2.413	3.257	10.3	21.5
1 6	3 44.17	+35 25.8	2.163	2.934	13.9	13.9	1 6	3 52.17	+12 46.7	2.525	3.272	12.8	21.7
199537	2006 <i>DY</i> ₂₀₁	11 28.1 193°22' 5°8/ 1.0 17					102326	1999 <i>TM</i> ₁₀₈	11 28.1 22°73' 4°2/29.6 18				
10 28	4 44.70	+41 27.8	2.694	3.479	11.4	20.7	10 28	4 42.53	+31 22.2	1.277	2.139	17.2	19.2
11 7	4 37.39	+42 0.4	2.616	3.477	9.3	20.5	11						

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
320921	2008 GC ₁₀₄		11 28.1 127°27	0°8/27.7	18		76511	2000 GT ₃₃		11 28.1 252°92	0°8/28.5	18	
10 28	4 41.36	+18 43.2	2.243	3.097	11.1	21.1	10 28	4 39.50	+24 38.5	2.606	3.451	10.0	20.7
11 7	4 34.82	+18 42.2	2.180	3.105	7.8	20.9	11 7	4 33.53	+24 31.9	2.518	3.437	7.2	20.5
11 17	4 26.57	+18 39.6	2.143	3.113	4.2	20.7	11 17	4 25.92	+24 19.5	2.456	3.423	4.0	20.3
11 27	4 17.39	+18 36.1	2.135	3.121	0.9	20.5	11 27	4 17.35	+24 1.5	2.423	3.409	0.9	20.0
12 7	4 8.20	+18 33.0	2.157	3.128	3.7	20.7	12 7	4 8.65	+23 39.3	2.421	3.394	3.1	20.2
12 17	3 59.92	+18 32.0	2.209	3.135	7.2	20.9	12 17	4 0.63	+23 15.2	2.449	3.379	6.4	20.4
12 27	3 53.33	+18 35.0	2.288	3.142	10.4	21.1	12 27	3 54.07	+22 52.1	2.505	3.364	9.5	20.6
1 6	3 48.90	+18 43.2	2.390	3.149	13.1	21.3	1 6	3 49.48	+22 32.7	2.585	3.348	12.1	20.7
463483	2013 QV ₁₃		11 28.1 289°73	1°5/28.9	17		187840	1999 VF ₁₈₈		11 28.1 339°37	2°1/27.7	18	
10 28	4 39.31	+27 37.6	2.299	3.145	11.1	21.4	10 28	4 40.71	+16 30.5	1.055	1.945	17.7	19.7
11 7	4 33.51	+27 17.9	2.219	3.137	8.1	21.2	11 7	4 36.03	+16 39.4	0.989	1.931	12.8	19.4
11 17	4 25.93	+26 48.9	2.163	3.129	4.7	21.0	11 17	4 27.92	+16 50.7	0.943	1.918	7.2	19.0
11 27	4 17.33	+26 11.2	2.137	3.121	1.7	20.7	11 27	4 17.57	+17 5.7	0.920	1.906	2.2	18.7
12 7	4 8.67	+25 26.9	2.140	3.113	3.5	20.9	12 7	4 6.81	+17 25.8	0.921	1.895	6.4	18.9
12 17	4 0.88	+24 39.8	2.172	3.105	7.0	21.1	12 17	3 57.55	+17 52.6	0.946	1.886	12.4	19.2
12 27	3 54.78	+23 53.9	2.232	3.097	10.2	21.3	12 27	3 51.42	+18 27.6	0.991	1.879	17.8	19.5
1 6	3 50.88	+23 13.2	2.316	3.089	13.0	21.4	1 6	3 49.28	+19 11.1	1.053	1.873	22.3	19.7
497601	2006 KD ₉₀		11 28.1 311°06	13°7/19.8	17		218076	2002 GK ₇₇		11 28.1 226°91	4°4/25.9	18	
10 28	4 42.50	+ 5 40.8	0.932	1.819	19.8	20.6	10 28	4 38.56	+ 9 11.7	2.235	3.089	11.1	19.9
11 7	4 37.12	+ 1 36.5	0.882	1.808	16.1	20.4	11 7	4 32.85	+ 8 28.0	2.167	3.086	8.2	19.7
11 17	4 28.33	- 2 23.7	0.856	1.798	13.8	20.2	11 17	4 25.53	+ 7 48.6	2.125	3.082	5.5	19.5
11 27	4 17.57	- 5 54.9	0.853	1.789	14.5	20.2	11 27	4 17.32	+ 7 17.1	2.112	3.079	4.4	19.5
12 7	4 6.77	- 8 36.1	0.873	1.780	17.7	20.4	12 7	4 9.07	+ 6 56.3	2.127	3.075	6.0	19.6
12 17	3 57.78	-10 17.1	0.912	1.771	21.7	20.6	12 17	4 1.62	+ 6 48.3	2.171	3.071	8.8	19.7
12 27	3 52.01	-10 59.1	0.966	1.763	25.5	20.8	12 27	3 55.70	+ 6 53.7	2.241	3.067	11.7	19.9
1 6	3 50.12	-10 52.0	1.032	1.756	28.6	21.1	1 6	3 51.80	+ 7 11.8	2.331	3.063	14.1	20.1
411002	2009 UC ₅₄		11 28.1 117°71	3°2/29.6	18		491592	2012 SZ ₃₃		11 28.1 96°18	1°2/27.7	18	
10 28	4 42.78	+32 9.2	2.354	3.181	11.5	21.8	10 28	4 45.34	+19 42.8	1.647	2.508	14.0	21.7
11 7	4 35.89	+32 18.2	2.290	3.193	8.7	21.6	11 7	4 37.91	+19 17.1	1.600	2.529	9.9	21.5
11 17	4 27.16	+32 15.9	2.251	3.204	5.6	21.4	11 17	4 28.28	+18 47.6	1.578	2.549	5.3	21.3
11 27	4 17.45	+32 1.4	2.241	3.215	3.4	21.3	11 27	4 17.58	+18 16.5	1.584	2.569	1.2	21.0
12 7	4 7.77	+31 35.7	2.260	3.226	4.2	21.4	12 7	4 7.11	+17 47.1	1.618	2.589	4.6	21.3
12 17	3 59.11	+31 1.9	2.309	3.236	7.0	21.6	12 17	3 58.06	+17 22.9	1.681	2.609	9.0	21.6
12 27	3 52.30	+30 24.4	2.386	3.246	9.8	21.8	12 27	3 51.37	+17 6.9	1.768	2.628	12.7	21.9
1 6	3 47.83	+29 47.7	2.486	3.256	12.3	22.0	1 6	3 47.47	+17 0.9	1.878	2.646	15.8	22.1
493867	2015 XD ₈₁		11 28.1 231°05	5°1/25.7	17		427820	2005 JU ₂₄		11 28.1 197°49	1°5/27.5	17	
10 28	4 38.74	+ 5 9.0	2.471	3.314	10.5	21.6	10 28	4 44.56	+19 27.1	1.596	2.460	14.3	22.0
11 7	4 32.88	+ 4 35.5	2.398	3.306	8.1	21.5	11 7	4 37.69	+18 52.8	1.529	2.458	10.2	21.7
11 17	4 25.52	+ 4 9.0	2.351	3.297	5.9	21.3	11 17	4 28.35	+18 13.9	1.485	2.456	5.5	21.5
11 27	4 17.30	+ 3 52.6	2.333	3.288	5.1	21.3	11 27	4 17.60	+17 32.8	1.469	2.454	1.5	21.2
12 7	4 9.00	+ 3 48.7	2.344	3.279	6.4	21.3	12 7	4 6.80	+16 53.5	1.481	2.451	5.1	21.4
12 17	4 1.39	+ 3 58.4	2.383	3.269	8.8	21.5	12 17	3 57.28	+16 20.4	1.520	2.448	9.7	21.7
12 27	3 55.16	+ 4 21.5	2.448	3.259	11.3	21.6	12 27	3 50.14	+15 57.5	1.585	2.445	13.9	21.9
1 6	3 50.80	+ 4 56.8	2.535	3.248	13.5	21.8	1 6	3 45.97	+15 46.8	1.670	2.441	17.4	22.2
204811	2007 LO ₃₃		11 28.1 85°31	3°2/27.5	18		369481	2010 TB ₁₅₂		11 28.1 71°70	5°2/29.8	18	
10 28	4 46.83	+11 27.3	1.699	2.554	14.0	19.1	10 28	4 50.71	+32 40.3	1.225	2.076	18.5	20.7
11 7	4 38.88	+11 43.5	1.654	2.577	10.0	18.9	11 7	4 42.58	+33 6.8	1.184	2.098	13.9	20.5
11 17	4 28.79	+12 5.2	1.633	2.599	5.9	18.7	11 17	4 31.07	+33 13.6	1.164	2.121	9.1	20.3
11 27	4 17.61	+12 33.1	1.641	2.621	3.3	18.6	11 27	4 17.85	+32 57.6	1.169	2.144	5.5	20.1
12 7	4 6.59	+13 7.4	1.678	2.643	5.5	18.8	12 7	4 5.01	+32 21.1	1.199	2.166	6.7	20.3
12 17	3 56.92	+13 47.7	1.744	2.664	9.3	19.1	12 17	3 54.40	+31 31.2	1.255	2.189	10.8	20.6
12 27	3 49.52	+14 33.7	1.836	2.685	12.8	19.3	12 27	3 47.30	+30 37.5	1.335	2.211	14.9	20.9
1 6	3 44.86	+15 24.6	1.949	2.706	15.7	19.6	1 6	3 44.16	+29 48.3	1.434	2.233	18.4	21.2
78576	2002 RB ₂₂₈		11 28.1 100°11	0°4/28.2	18		298587	2003 YG ₄₇		11 28.1 17°95	3°2/27.5	18	
10 28	4 40.76	+22 7.9	2.368	3.218	10.7	19.5	10 28	4 40.50	+13 56.8	1.155	2.041	16.9	19.3
11 7	4 34.40	+22 20.4	2.302	3.225	7.6	19.3	11 7	4 35.22	+14 1.0	1.111	2.050	12.1	19.0
11 17	4 26.36	+22 29.3	2.263	3.232	4.1	19.1	11 17	4 27.12	+14 9.9	1.088	2.060	6.9	18.8
11 27	4 17.38	+22 34.4	2.253	3.239	0.6	18.8	11 27	4 17.48	+14 25.6	1.089	2.072	3.2	18.6
12 7	4 8.38	+22 36.5	2.274	3.247	3.3	19.1	12 7	4 7.92	+14 49.2	1.115	2.086	6.4	18.8
12 17	4 0.22	+22 37.2	2.324	3.254	6.7	19.3	12 17	3 59.98	+15 21.2	1.166	2.100	11.3	19.1
12 27	3 53.68	+22 38.5	2.401	3.260	9.8	19.5	12 27	3 54.83	+16 1.7	1.238	2.116	15.7	19.5
1 6	3 49.25	+22 42.5	2.503	3.267	12.4	19.7	1 6	3 53.03	+16 49.6	1.330	2.134	19.4	19.7
42880	1999 RX ₁₃₈		11 28.1 67°16	2°1/27.4	18		415224	2012 HH ₆₆		11 28.1 85°49	1°9/27.4	18	
10 28	4 45.75	+19 21.2	1.240	2.115	16.8	18.5	10 28	4 39.85	+15 0.9	2.293	3.149	10.8	20.6
11 7	4 38.57	+18 31.5	1.203	2.137	11.8	18.3	11 7	4 33.73	+14 59.0	2.231	3.156	7.7	20.4
11 17	4 28.70	+17 37.7	1.188	2.160	6.4	18.0	11 17	4 26.00	+14 58.3	2.194	3.163	4.3	20.2
11 27	4 17.59	+16 44.1	1.198	2.183	2.1	17.8	11 27	4 17.38	+15 0.1	2.187	3.170	1.9	20.0
12 7	4 6.89	+15 56.4	1.235	2.206	5.8	18.1	12 7	4 8.76	+15 5.6	2.210	3.177	4.1	20.2
12 17	3 58.05	+15 19.7	1.298	2.229	10.8	18.5	12 17	4 0.98	+15 15.8	2.262	3.184	7.4	20.4
12 27	3 52.08	+14 57.3	1.385	2.252	15.1	18.8	12 27	3 54.77	+15 31.7	2.341	3.191	10.4	20.6
1 6	3 49.40	+14 50.1	1.490	2.274	18.5	19.1	1 6	3 50.61	+15 53.8	2.444	3.198	12.9	20.8
140103	2001 SH ₁₃₂		11 28.1 138°89	5°5/25.4	18		74166	1998 QO ₁₀₉		11 28.1 51°89	0°0/28.1	18	
10 28	4 39.23	+ 8 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
48150	2001 <i>FA</i> ₁₆₅		11 28.1 71°82	8°1/25.4	18		112068	2002 <i>JN</i> ₁₇		11 28.1 118°34	2°5/28.8	18	
10 28	4 42.37	+ 4 49.1	1.397	2.261	15.9	18.9	10 28	4 48.92	+26 58.5	1.540	2.391	15.4	20.4
11 7	4 36.10	+ 3 37.7	1.351	2.268	12.3	18.7	11 7	4 40.92	+27 21.8	1.484	2.404	11.2	20.2
11 17	4 27.44	+ 2 38.4	1.327	2.276	9.2	18.5	11 17	4 30.14	+27 34.7	1.452	2.417	6.6	19.9
11 27	4 17.53	+ 1 58.0	1.328	2.283	8.2	18.5	11 27	4 17.82	+27 35.3	1.446	2.429	2.7	19.7
12 7	4 7.72	+ 1 41.5	1.355	2.291	10.0	18.6	12 7	4 5.55	+27 24.4	1.469	2.441	4.9	19.9
12 17	3 59.31	+ 1 50.1	1.406	2.298	13.3	18.8	12 17	3 54.87	+27 5.8	1.520	2.452	9.3	20.2
12 27	3 53.30	+ 2 22.1	1.479	2.306	16.6	19.1	12 27	3 46.95	+26 45.0	1.596	2.463	13.4	20.4
1 6	3 50.22	+ 3 13.2	1.570	2.313	19.4	19.3	1 6	3 42.38	+26 27.4	1.692	2.474	16.8	20.7
298049	2002 <i>QF</i> ₃₅		11 28.1 102°74	7°6/25.3	17		483226	2015 <i>RG</i> ₅₆		11 28.1 45°87	2°5/27.0	18	
10 28	4 41.30	+ 0 57.0	1.917	2.757	13.2	21.2	10 28	4 40.52	+16 26.5	1.786	2.651	12.9	21.0
11 7	4 34.80	+ 0 3.8	1.873	2.772	10.5	21.0	11 7	4 34.56	+15 45.9	1.724	2.653	9.2	20.8
11 17	4 26.55	- 0 36.5	1.855	2.787	8.3	20.9	11 17	4 26.57	+15 3.9	1.686	2.656	5.2	20.6
11 27	4 17.44	- 0 59.0	1.862	2.801	7.6	20.9	11 27	4 17.47	+14 24.1	1.676	2.658	2.5	20.4
12 7	4 8.45	- 1 1.2	1.898	2.815	8.9	21.0	12 7	4 8.38	+13 49.9	1.694	2.660	5.2	20.6
12 17	4 0.54	- 0 42.8	1.959	2.829	11.2	21.2	12 17	4 0.38	+13 24.9	1.740	2.663	9.1	20.8
12 27	3 54.46	- 0 5.7	2.044	2.843	13.7	21.4	12 27	3 54.38	+13 11.4	1.812	2.666	12.7	21.1
1 6	3 50.65	+ 0 46.7	2.149	2.856	15.9	21.6	1 6	3 50.89	+13 10.1	1.904	2.668	15.8	21.3
139355	2001 <i>LA</i> ₁₃		11 28.1 81°46	9°0/25.7	18		482650	2013 <i>BK</i> ₁₈		11 28.1 263°16	21°2/14.2	17	
10 28	4 42.78	- 4 27.4	1.939	2.760	13.9	19.8	10 28	4 57.11	-24 11.3	1.440	2.166	22.2	23.0
11 7	4 35.68	- 5 10.4	1.911	2.788	11.5	19.7	11 7	4 47.75	-26 35.4	1.365	2.127	21.4	22.9
11 17	4 26.95	- 5 35.5	1.906	2.816	9.6	19.7	11 17	4 34.47	-28 26.4	1.307	2.086	21.3	22.7
11 27	4 17.47	- 5 38.4	1.927	2.843	9.0	19.7	11 27	4 18.32	-29 27.0	1.268	2.042	21.9	22.6
12 7	4 8.26	- 5 17.9	1.975	2.869	9.9	19.8	12 7	4 1.07	-29 25.3	1.246	1.995	23.4	22.6
12 17	4 0.22	- 4 35.5	2.048	2.896	11.8	20.0	12 17	3 44.84	-28 18.3	1.241	1.945	25.6	22.6
12 27	3 54.04	- 3 34.4	2.145	2.922	13.8	20.2	12 27	3 31.53	-26 12.0	1.250	1.893	28.0	22.6
1 6	3 50.12	- 2 19.3	2.262	2.947	15.7	20.4	1 6	3 22.29	-23 19.0	1.270	1.837	30.5	22.7
158220	2001 <i>SV</i> ₁₃₉		11 28.1 17°02	5°6/29.6	18		120942	Rendafuzhong		11 28.1 71°21	2°1/27.5	18	
10 28	4 44.84	+32 7.9	1.230	2.089	17.9	19.6	10 28	4 49.08	+18 23.4	1.125	2.000	18.1	20.1
11 7	4 38.77	+32 51.8	1.174	2.093	13.6	19.3	11 7	4 41.03	+17 53.3	1.094	2.028	12.7	19.9
11 17	4 29.27	+33 18.7	1.140	2.098	9.1	19.1	11 17	4 30.07	+17 20.7	1.084	2.056	6.9	19.7
11 27	4 17.72	+33 24.4	1.128	2.103	5.8	18.9	11 27	4 17.79	+16 49.0	1.100	2.085	2.1	19.4
12 7	4 6.09	+33 8.6	1.142	2.109	7.0	19.0	12 7	4 6.07	+16 22.5	1.141	2.113	6.1	19.8
12 17	3 56.28	+32 36.5	1.181	2.116	11.1	19.3	12 17	3 56.48	+16 5.2	1.208	2.140	11.3	20.2
12 27	3 49.77	+31 56.6	1.242	2.124	15.4	19.6	12 27	3 50.10	+16 0.1	1.298	2.167	15.7	20.5
1 6	3 47.22	+31 17.1	1.322	2.132	19.1	19.8	1 6	3 47.28	+16 7.7	1.407	2.194	19.3	20.8
16909	Miladejager		11 28.1 169°55	0°5/28.3	18		185291	2006 <i>UT</i> ₂₁₉		11 28.1 119°55	2°2/27.3	18	
10 28	4 41.41	+23 22.5	2.056	2.910	11.9	17.7	10 28	4 41.51	+15 55.0	2.002	2.861	12.0	20.6
11 7	4 35.11	+23 20.1	1.986	2.910	8.5	17.5	11 7	4 35.06	+15 34.9	1.943	2.869	8.5	20.4
11 17	4 26.85	+23 12.0	1.941	2.911	4.7	17.3	11 17	4 26.77	+15 14.9	1.908	2.877	4.8	20.2
11 27	4 17.48	+22 58.5	1.925	2.911	0.8	17.0	11 27	4 17.49	+14 56.9	1.902	2.885	2.2	20.0
12 7	4 8.05	+22 41.3	1.938	2.911	3.7	17.2	12 7	4 8.25	+14 43.3	1.926	2.892	4.6	20.2
12 17	3 59.60	+22 23.0	1.980	2.912	7.6	17.4	12 17	4 0.01	+14 36.2	1.978	2.900	8.2	20.5
12 27	3 53.01	+22 6.9	2.048	2.912	11.1	17.7	12 27	3 53.61	+14 37.3	2.056	2.907	11.6	20.7
1 6	3 48.84	+21 55.7	2.140	2.912	14.0	17.9	1 6	3 49.54	+14 47.1	2.156	2.914	14.4	20.9
412443	2014 <i>FV</i> ₄₆		11 28.1 149°64	0°7/28.4	18		71093	1999 <i>XW</i> ₁₃₃		11 28.1 300°71	4°2/29.6	18	
10 28	4 44.11	+23 45.2	2.145	2.991	11.8	22.2	10 28	4 42.79	+32 53.1	2.139	2.969	12.4	18.6
11 7	4 36.91	+23 48.8	2.079	3.000	8.4	22.0	11 7	4 36.34	+33 27.1	2.060	2.962	9.5	18.4
11 17	4 27.77	+23 46.6	2.040	3.008	4.7	21.7	11 17	4 27.65	+33 49.7	2.005	2.955	6.5	18.2
11 27	4 17.57	+23 38.5	2.029	3.015	0.9	21.5	11 27	4 17.60	+33 58.3	1.978	2.948	4.3	18.0
12 7	4 7.37	+23 25.8	2.049	3.022	3.6	21.7	12 7	4 7.32	+33 52.7	1.980	2.941	5.1	18.1
12 17	3 58.19	+23 11.0	2.098	3.028	7.3	21.9	12 17	3 58.00	+33 35.0	2.010	2.934	8.0	18.2
12 27	3 50.91	+22 57.2	2.175	3.034	10.7	22.2	12 27	3 50.68	+33 9.8	2.067	2.928	11.1	18.4
1 6	3 46.04	+22 47.4	2.275	3.039	13.5	22.4	1 6	3 46.01	+32 42.1	2.146	2.921	13.9	18.6
464383	2016 <i>AH</i> ₁₈₇		11 28.1 345°57	5°0/26.4	17		139600	2001 <i>QL</i> ₁₂₂		11 28.1 8°93	16°5/6.5	17	
10 28	4 38.71	+ 7 12.3	1.975	2.832	12.2	20.4	10 28	4 54.50	+59 19.9	1.526	2.245	21.3	19.3
11 7	4 33.16	+ 6 53.7	1.909	2.827	9.2	20.2	11 7	4 47.43	+61 3.7	1.473	2.247	19.6	19.2
11 17	4 25.79	+ 6 42.7	1.868	2.823	6.3	20.0	11 17	4 34.73	+62 11.8	1.437	2.250	18.0	19.1
11 27	4 17.38	+ 6 42.6	1.854	2.820	5.0	19.9	11 27	4 18.31	+62 33.0	1.417	2.254	16.8	19.0
12 7	4 8.90	+ 6 55.2	1.868	2.817	6.6	20.0	12 7	4 1.53	+62 2.4	1.417	2.259	16.5	19.0
12 17	4 1.29	+ 7 21.2	1.909	2.814	9.6	20.2	12 17	3 47.81	+60 44.9	1.436	2.265	16.9	19.1
12 27	3 55.39	+ 8 0.0	1.976	2.811	12.6	20.4	12 27	3 39.49	+58 53.4	1.474	2.272	18.1	19.2
1 6	3 51.72	+ 8 49.8	2.063	2.810	15.3	20.6	1 6	3 37.15	+56 43.3	1.530	2.280	19.6	19.3
121499	1999 <i>TD</i> ₂₇₂		11 28.1 87°58	4°8/30.2	18		47888	2000 <i>FC</i> ₄₆		11 28.1 44°31	1°3/27.6	18	
10 28	4 43.77	+35 32.2	2.138	2.958	12.8	19.5	10 28	4 39.99	+17 6.1	2.145	3.003	11.3	18.0
11 7	4 36.93	+35 58.5	2.071	2.965	9.9	19.3	11 7	4 33.97	+17 9.0	2.082	3.009	8.0	17.8
11 17	4 27.88	+36 10.6	2.028	2.971	7.0	19.1	11 17	4 26.20	+17 11.8	2.044	3.015	4.4	17.6
11 27	4 17.59	+36 6.3	2.013	2.977	4.9	19.0	11 27	4 17.45	+17 15.4	2.035	3.020	1.3	17.4
12 7	4 7.26	+35 45.9	2.026	2.983	5.5	19.1	12 7	4 8.68	+17 20.8	2.056	3.026	3.9	17.6
12 17	3 58.06	+35 12.6	2.068	2.989	8.0	19.2	12 17	4 0.80	+17 29.3	2.106	3.033	7.5	17.9
12 27	3 50.97	+34 31.6	2.136	2.995	10.8	19.4	12 27	3 54.61	+17 42.4	2.182	3.039	10.8	18.1
1 6	3 46.57	+33 48.8	2.227	3.001	13.5	19.6	1 6	3 50.61	+18 0.9	2.281	3.045	13.5	18.3
345475	2006 <i>HV</i> ₃₆		11 28.1 155°42	1°9/28.2	17		385772	2005 <i>YO</i> ₂₅₈		11 28.1 210			

EPHEMERIDES

11 28.1

11 28.1

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
380389	2002 <i>WB</i> ₂₆		11 28.1 359°03	1°6/27.8	18		515865	2015 <i>OG</i> ₈₇		11 28.1 140°60	0°6/28.3	18	
10 28	4 43.80	+17 2.9	1.249	2.126	16.5	20.6	10 28	4 43.79	+23 37.2	1.957	2.809	12.5	22.3
11 7	4 37.72	+17 15.5	1.189	2.124	11.8	20.3	11 7	4 36.83	+23 34.1	1.893	2.816	9.0	22.1
11 17	4 28.62	+17 29.2	1.151	2.123	6.5	20.0	11 17	4 27.80	+23 24.7	1.854	2.823	4.9	21.9
11 27	4 17.70	+17 44.5	1.137	2.123	1.7	19.7	11 27	4 17.64	+23 9.2	1.843	2.830	0.9	21.6
12 7	4 6.63	+18 2.3	1.150	2.123	5.6	20.0	12 7	4 7.48	+22 49.6	1.862	2.836	3.8	21.9
12 17	3 57.04	+18 24.1	1.188	2.124	11.0	20.3	12 17	3 58.44	+22 28.6	1.911	2.842	7.8	22.1
12 27	3 50.29	+18 51.6	1.249	2.125	15.8	20.6	12 27	3 51.42	+22 10.0	1.985	2.847	11.4	22.4
1 6	3 47.09	+19 25.7	1.329	2.127	19.7	20.8	1 6	3 46.98	+21 56.7	2.082	2.852	14.4	22.6
75080	1999 <i>VP</i> ₂₄		11 28.1 98°61	2°8/29.3	18		345141	2005 <i>SH</i> ₅₆		11 28.1 103°02	4°9/29.7	18	
10 28	4 49.20	+30 21.1	1.552	2.395	15.6	19.0	10 28	4 52.35	+33 19.8	1.767	2.592	14.9	20.8
11 7	4 40.86	+30 2.1	1.504	2.419	11.5	18.8	11 7	4 43.17	+34 8.5	1.719	2.618	11.3	20.7
11 17	4 29.94	+29 27.5	1.480	2.442	6.9	18.6	11 17	4 31.29	+34 41.9	1.695	2.643	7.6	20.5
11 27	4 17.81	+28 37.9	1.483	2.465	3.1	18.4	11 27	4 17.98	+34 56.1	1.699	2.667	5.1	20.4
12 7	4 6.05	+27 37.1	1.515	2.486	4.8	18.6	12 7	4 4.82	+34 51.1	1.732	2.691	6.0	20.5
12 17	3 56.08	+26 31.9	1.575	2.508	9.0	18.9	12 17	3 53.30	+34 30.7	1.793	2.714	9.0	20.7
12 27	3 48.91	+25 29.7	1.660	2.528	12.9	19.2	12 27	3 44.56	+34 1.6	1.880	2.736	12.3	21.0
1 6	3 44.98	+24 36.2	1.767	2.548	16.2	19.4	1 6	3 39.13	+33 30.5	1.990	2.758	15.1	21.2
124677	2001 <i>SE</i> ₁₀₈		11 28.1 66°74	3°1/29.3	18		373921	2003 <i>UH</i> ₂₀₀		11 28.1 52°74	2°3/27.4	18	
10 28	4 45.83	+29 49.8	1.442	2.296	16.0	18.8	10 28	4 44.97	+18 11.0	1.122	2.003	17.6	20.7
11 7	4 38.78	+29 47.2	1.391	2.311	11.8	18.6	11 7	4 38.33	+17 38.0	1.083	2.021	12.5	20.4
11 17	4 28.97	+29 29.8	1.363	2.326	7.2	18.3	11 17	4 28.76	+17 2.6	1.066	2.039	6.8	20.2
11 27	4 17.72	+28 57.0	1.360	2.341	3.3	18.1	11 27	4 17.73	+16 28.6	1.074	2.059	2.3	20.0
12 7	4 6.68	+28 11.9	1.385	2.357	5.1	18.3	12 7	4 7.03	+16 0.6	1.107	2.078	6.2	20.3
12 17	3 57.34	+27 20.5	1.436	2.372	9.4	18.6	12 17	3 58.25	+15 42.8	1.164	2.098	11.4	20.6
12 27	3 50.82	+26 29.9	1.512	2.387	13.5	18.9	12 27	3 52.52	+15 38.0	1.244	2.118	16.0	21.0
1 6	3 47.63	+25 46.1	1.609	2.403	17.0	19.1	1 6	3 50.29	+15 46.6	1.343	2.139	19.6	21.3
167855	2005 <i>ET</i>		11 28.1 201°54	2°2/26.9	17		324850	2007 <i>LS</i> ₆		11 28.1 109°87	2°4/27.0	18	
10 28	4 38.02	+14 57.6	2.571	3.426	9.8	20.7	10 28	4 39.51	+13 23.6	2.574	3.425	9.9	21.5
11 7	4 32.36	+14 30.3	2.500	3.424	7.0	20.5	11 7	4 33.30	+13 8.7	2.519	3.441	7.1	21.3
11 17	4 25.26	+14 3.3	2.455	3.422	4.1	20.3	11 17	4 25.72	+12 55.7	2.491	3.457	4.2	21.2
11 27	4 17.37	+13 38.6	2.439	3.420	2.2	20.2	11 27	4 17.44	+12 46.1	2.493	3.472	2.4	21.1
12 7	4 9.44	+13 18.4	2.454	3.417	4.1	20.3	12 7	4 9.22	+12 41.6	2.525	3.487	4.1	21.2
12 17	4 2.22	+13 4.6	2.498	3.415	7.0	20.5	12 17	4 1.79	+12 43.3	2.587	3.502	6.9	21.4
12 27	3 56.37	+12 58.6	2.569	3.412	9.8	20.7	12 27	3 55.78	+12 52.1	2.677	3.516	9.6	21.6
1 6	3 52.33	+13 1.1	2.664	3.409	12.2	20.8	1 6	3 51.58	+13 8.1	2.790	3.530	11.8	21.8
329914	2005 <i>LN</i> ₁₈		11 28.1 129°35	1°6/27.4	17		12131	Echternach		11 28.1 310°93	0°3/28.2	18	
10 28	4 45.03	+19 43.8	1.612	2.474	14.2	21.7	10 28	4 40.61	+23 4.6	2.008	2.864	12.1	18.9
11 7	4 37.85	+18 57.8	1.555	2.484	10.1	21.5	11 7	4 34.61	+22 52.3	1.936	2.862	8.6	18.7
11 17	4 28.36	+18 6.7	1.523	2.494	5.5	21.2	11 17	4 26.64	+22 34.0	1.890	2.860	4.7	18.5
11 27	4 17.67	+17 14.0	1.519	2.504	1.6	21.0	11 27	4 17.55	+22 10.6	1.871	2.858	0.6	18.2
12 7	4 7.13	+16 24.2	1.543	2.513	5.0	21.3	12 7	4 8.39	+21 44.3	1.882	2.856	3.7	18.4
12 17	3 57.97	+15 42.1	1.595	2.522	9.5	21.5	12 17	4 0.21	+21 18.0	1.922	2.854	7.7	18.6
12 27	3 51.18	+15 11.5	1.673	2.530	13.4	21.8	12 27	3 53.91	+20 55.5	1.988	2.852	11.3	18.9
1 6	3 47.27	+14 54.2	1.771	2.538	16.7	22.1	1 6	3 50.02	+20 39.3	2.076	2.850	14.3	19.1
514367	2016 <i>QE</i> ₈₇		11 28.1 14°57	3°5/29.5	18		325703	2009 <i>UL</i> ₅₇		11 28.1 206°12	1°6/27.1	18	
10 28	4 43.88	+30 48.0	1.320	2.180	16.9	21.0	10 28	4 38.86	+18 29.9	2.403	3.258	10.4	20.7
11 7	4 37.77	+30 37.7	1.259	2.181	12.6	20.7	11 7	4 33.03	+17 40.1	2.330	3.256	7.4	20.5
11 17	4 28.60	+30 9.8	1.220	2.183	7.8	20.5	11 17	4 25.65	+16 47.1	2.284	3.254	4.1	20.3
11 27	4 17.71	+29 23.7	1.205	2.186	3.8	20.3	11 27	4 17.44	+15 53.5	2.268	3.251	1.6	20.1
12 7	4 6.84	+28 23.1	1.216	2.189	5.5	20.4	12 7	4 9.23	+15 2.7	2.282	3.249	4.0	20.3
12 17	3 57.69	+27 15.1	1.254	2.192	10.2	20.7	12 17	4 1.83	+14 18.2	2.325	3.246	7.3	20.5
12 27	3 51.51	+26 8.7	1.314	2.197	14.7	20.9	12 27	3 55.93	+13 42.6	2.396	3.243	10.3	20.7
1 6	3 48.92	+25 11.1	1.395	2.201	18.5	21.2	1 6	3 52.00	+13 17.7	2.490	3.239	12.9	20.9
15109	Wilber		11 28.1 172°49	1°9/27.3	18		392306	2010 <i>CD</i> ₁₈₃		11 28.1 325°98	2°8/27.1	18	
10 28	4 43.64	+18 48.1	1.688	2.550	13.7	18.9	10 28	4 39.56	+17 52.4	1.266	2.148	15.9	21.0
11 7	4 36.90	+18 2.5	1.623	2.552	9.7	18.6	11 7	4 34.79	+17 5.8	1.192	2.131	11.5	20.7
11 17	4 27.89	+17 12.6	1.583	2.554	5.3	18.4	11 17	4 27.11	+16 14.4	1.141	2.114	6.5	20.4
11 27	4 17.64	+16 21.9	1.571	2.555	1.9	18.1	11 27	4 17.61	+15 22.8	1.114	2.098	2.8	20.1
12 7	4 7.41	+15 34.5	1.587	2.556	5.1	18.4	12 7	4 7.82	+14 36.7	1.112	2.082	6.5	20.3
12 17	3 58.41	+14 55.1	1.631	2.556	9.4	18.6	12 17	3 59.33	+14 1.9	1.135	2.068	11.8	20.6
12 27	3 51.64	+14 27.1	1.701	2.556	13.4	18.9	12 27	3 53.48	+13 42.8	1.180	2.055	16.6	20.8
1 6	3 47.63	+14 12.4	1.791	2.556	16.6	19.1	1 6	3 51.02	+13 41.1	1.244	2.042	20.7	21.0
282690	2005 <i>YN</i> ₉₀		11 28.1 248°68	1°5/28.7	18		354308	2002 <i>TT</i> ₃₁₀		11 28.1 208°09	0°9/28.4	18	
10 28	4 44.03	+26 39.8	1.836	2.686	13.3	20.8	10 28	4 44.44	+23 7.1	2.177	3.023	11.7	21.8
11 7	4 37.34	+26 24.6	1.753	2.673	9.7	20.6	11 7	4 37.31	+23 29.3	2.098	3.018	8.4	21.6
11 17	4 28.24	+25 59.0	1.693	2.660	5.6	20.3	11 17	4 28.13	+23 47.1	2.046	3.014	4.7	21.4
11 27	4 17.69	+25 22.9	1.662	2.647	1.7	20.0	11 27	4 17.71	+23 59.7	2.023	3.008	1.0	21.1
12 7	4 6.94	+24 38.8	1.659	2.633	4.2	20.2	12 7	4 7.10	+24 7.2	2.030	3.003	3.6	21.3
12 17	3 57.29	+23 51.1	1.686	2.619	8.6	20.4	12 17	3 57.38	+24 11.2	2.067	2.996	7.5	21.5
12 27	3 49.83	+23 5.4	1.738	2.604	12.6	20.6	12 27	3 49.49	+24 14.1	2.132	2.990	10.9	21.7
1 6	3 45.22	+22 26.5	1.812	2.589	16.0	20.8	1 6	3 44.05	+24 18.8	2.219	2.983	13.8	21.9
473652	2015 <i>XV</i> ₃₃₄		11 28.1 53°06	3°6/27.2	18		198949	2005 <i>UG</i> ₃₂₂		11 28.1 219°90	0°5/28.3	18	

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
54692	2001 <i>EJ</i> ₁₀		11 28.1 142°86	1°0/28.5	18		137521	1999 <i>VZ</i> ₄₆		11 28.1 79°11	2°9/26.9	18	
10 28	4 47.32	+24 36.8	1.882	2.728	13.2	20.1	10 28	4 45.10	+17 40.5	1.357	2.228	15.8	19.6
11 7	4 39.36	+24 37.8	1.821	2.741	9.5	19.9	11 7	4 38.04	+16 36.6	1.314	2.247	11.2	19.3
11 17	4 29.18	+24 31.3	1.786	2.753	5.3	19.7	11 17	4 28.49	+15 30.0	1.295	2.266	6.2	19.1
11 27	4 17.80	+24 17.1	1.779	2.764	1.2	19.4	11 27	4 17.76	+14 26.2	1.302	2.285	2.9	19.0
12 7	4 6.49	+23 56.8	1.802	2.775	4.0	19.7	12 7	4 7.34	+13 30.9	1.336	2.303	6.2	19.2
12 17	3 56.44	+23 33.8	1.854	2.784	8.1	19.9	12 17	3 58.59	+12 49.3	1.397	2.322	10.7	19.5
12 27	3 48.64	+23 12.2	1.933	2.793	11.8	20.2	12 27	3 52.48	+12 24.2	1.482	2.340	14.8	19.8
1 6	3 43.61	+22 55.6	2.035	2.801	14.8	20.4	1 6	3 49.46	+12 15.9	1.586	2.358	18.1	20.1
356163	2009 <i>HH</i> ₃₇		11 28.1 167°55	3°3/29.3	18		373348	2012 <i>KP</i> ₁		11 28.1 314°49	5°0/26.7	18	
10 28	4 45.58	+30 30.8	2.266	3.095	11.9	20.8	10 28	4 42.61	+12 29.6	1.218	2.098	16.6	20.5
11 7	4 38.13	+31 6.4	2.194	3.098	8.9	20.7	11 7	4 36.93	+11 46.3	1.154	2.088	12.2	20.2
11 17	4 28.56	+31 32.4	2.147	3.101	5.7	20.5	11 17	4 28.26	+11 6.3	1.111	2.079	7.6	20.0
11 27	4 17.75	+31 46.6	2.129	3.104	3.4	20.3	11 27	4 17.77	+10 35.1	1.093	2.071	5.0	19.8
12 7	4 6.80	+31 48.7	2.141	3.106	4.4	20.4	12 7	4 7.07	+10 17.6	1.100	2.062	7.9	19.9
12 17	3 56.83	+31 40.7	2.183	3.108	7.4	20.6	12 17	3 57.80	+10 17.3	1.131	2.055	12.8	20.2
12 27	3 48.79	+31 26.3	2.253	3.109	10.5	20.8	12 27	3 51.29	+10 35.6	1.183	2.047	17.4	20.4
1 6	3 43.29	+31 10.0	2.345	3.110	13.1	21.0	1 6	3 48.26	+11 10.7	1.254	2.040	21.3	20.7
398241	2010 <i>RL</i> ₉₆		11 28.1 182°79	2°0/27.1	18		290709	2005 <i>UM</i> ₄₀₇		11 28.1 58°15	1°4/27.6	17	
10 28	4 40.46	+16 44.3	2.324	3.178	10.7	21.7	10 28	4 40.66	+18 22.0	1.892	2.754	12.4	21.5
11 7	4 34.19	+16 4.1	2.254	3.178	7.6	21.5	11 7	4 34.61	+18 3.1	1.832	2.761	8.8	21.3
11 17	4 26.30	+15 22.4	2.210	3.178	4.3	21.3	11 17	4 26.63	+17 42.1	1.797	2.768	4.8	21.1
11 27	4 17.52	+14 41.6	2.196	3.178	2.0	21.2	11 27	4 17.59	+17 21.0	1.790	2.775	1.4	20.9
12 7	4 8.74	+14 4.7	2.212	3.177	4.3	21.3	12 7	4 8.58	+17 2.1	1.812	2.783	4.3	21.1
12 17	4 0.81	+13 34.6	2.258	3.176	7.6	21.5	12 17	4 0.62	+16 48.2	1.862	2.790	8.2	21.4
12 27	3 54.46	+13 13.6	2.331	3.174	10.7	21.7	12 27	3 54.58	+16 41.4	1.938	2.798	11.8	21.6
1 6	3 50.16	+13 2.8	2.427	3.172	13.3	21.9	1 6	3 50.97	+16 43.2	2.036	2.805	14.7	21.8
355441	2007 <i>VV</i> ₇₂		11 28.1 29°27	0°1/28.1	18		374602	2006 <i>DW</i> ₁₂₄		11 28.1 172°99	0°9/28.8	18	
10 28	4 42.69	+21 12.7	1.381	2.253	15.5	20.2	10 28	4 38.64	+26 14.3	3.850	4.680	7.4	22.8
11 7	4 36.61	+21 26.5	1.330	2.264	11.0	20.0	11 7	4 32.48	+26 12.7	3.773	4.684	5.3	22.7
11 17	4 27.88	+21 36.0	1.302	2.275	6.0	19.7	11 17	4 25.25	+26 6.2	3.724	4.687	3.1	22.5
11 27	4 17.68	+21 41.1	1.300	2.286	0.6	19.4	11 27	4 17.45	+25 55.0	3.706	4.690	1.0	22.4
12 7	4 7.54	+21 43.1	1.324	2.299	4.7	19.7	12 7	4 9.64	+25 40.0	3.721	4.692	2.3	22.5
12 17	3 58.88	+21 44.7	1.375	2.312	9.6	20.0	12 17	4 2.34	+25 22.5	3.767	4.694	4.5	22.6
12 27	3 52.83	+21 49.0	1.449	2.326	13.9	20.3	12 27	3 56.07	+25 4.4	3.844	4.695	6.7	22.8
1 6	3 49.98	+21 58.4	1.544	2.340	17.4	20.6	1 6	3 51.17	+24 47.6	3.946	4.695	8.5	22.9
175146	2005 <i>ES</i> ₂₄		11 28.1 187°00	3°4/29.1	18		369136	2008 <i>RC</i> ₈₆		11 28.1 192°17	3°8/30.2	17	
10 28	4 48.58	+29 9.6	1.624	2.468	15.0	20.6	10 28	4 41.80	+35 3.8	2.564	3.380	11.0	21.6
11 7	4 40.87	+29 38.3	1.554	2.468	11.2	20.4	11 7	4 35.28	+35 11.2	2.487	3.380	8.5	21.4
11 17	4 30.28	+29 55.5	1.507	2.468	6.9	20.2	11 17	4 26.96	+35 6.2	2.435	3.378	5.9	21.2
11 27	4 17.94	+29 58.3	1.487	2.467	3.6	20.0	11 27	4 17.63	+34 47.7	2.411	3.377	4.0	21.1
12 7	4 5.42	+29 46.7	1.496	2.465	5.3	20.1	12 7	4 8.24	+34 16.3	2.416	3.376	4.5	21.2
12 17	3 54.29	+29 24.2	1.533	2.463	9.4	20.3	12 17	3 59.76	+33 35.2	2.452	3.374	6.8	21.3
12 27	3 45.85	+28 56.9	1.594	2.461	13.5	20.5	12 27	3 53.00	+32 48.5	2.514	3.372	9.5	21.5
1 6	3 40.79	+28 30.9	1.677	2.458	16.9	20.8	1 6	3 48.47	+32 1.3	2.601	3.370	11.9	21.6
279292	2009 <i>WS</i> ₁₀₇		11 28.1 338°33	1°4/27.7	18		479416	2013 <i>YV</i> ₇₂		11 28.1 231°44	1°3/28.6	18	
10 28	4 41.15	+19 3.3	1.190	2.074	16.7	20.5	10 28	4 44.98	+25 28.9	1.772	2.624	13.6	21.9
11 7	4 36.06	+18 52.9	1.124	2.063	12.0	20.2	11 7	4 38.08	+25 23.2	1.693	2.616	9.9	21.7
11 17	4 27.85	+18 39.3	1.080	2.053	6.6	19.8	11 17	4 28.70	+25 8.4	1.639	2.607	5.6	21.4
11 27	4 17.72	+18 24.5	1.059	2.045	1.5	19.5	11 27	4 17.82	+24 44.5	1.612	2.597	1.5	21.1
12 7	4 7.32	+18 11.6	1.063	2.037	5.8	19.7	12 7	4 6.75	+24 13.5	1.614	2.588	4.2	21.3
12 17	3 58.37	+18 4.2	1.092	2.030	11.4	20.0	12 17	3 56.83	+23 39.1	1.645	2.577	8.7	21.5
12 27	3 52.30	+18 6.0	1.142	2.024	16.4	20.3	12 27	3 49.18	+23 6.4	1.701	2.567	12.8	21.8
1 6	3 49.84	+18 18.8	1.211	2.019	20.6	20.6	1 6	3 44.46	+22 40.0	1.779	2.556	16.2	22.0
369449	2010 <i>CF</i> ₁₄₈		11 28.1 101°98	2°7/27.1	18		265938	2006 <i>BP</i> ₁₈₃		11 28.1 12°61	2°2/29.0	17	
10 28	4 39.41	+12 48.0	2.322	3.177	10.7	20.3	10 28	4 40.40	+27 58.6	1.789	2.643	13.4	20.6
11 7	4 33.45	+12 37.7	2.258	3.181	7.7	20.1	11 7	4 34.70	+27 55.1	1.724	2.645	9.8	20.4
11 17	4 25.91	+12 30.1	2.220	3.185	4.6	19.9	11 17	4 26.78	+27 40.9	1.683	2.648	5.8	20.2
11 27	4 17.51	+12 26.8	2.210	3.189	2.7	19.8	11 27	4 17.62	+27 16.1	1.669	2.652	2.3	20.0
12 7	4 9.08	+12 29.5	2.231	3.193	4.5	20.0	12 7	4 8.44	+26 42.9	1.683	2.656	4.2	20.1
12 17	4 1.46	+12 39.1	2.281	3.197	7.6	20.2	12 17	4 0.44	+26 5.1	1.724	2.660	8.2	20.4
12 27	3 55.36	+12 56.4	2.357	3.201	10.5	20.4	12 27	3 54.59	+25 27.8	1.792	2.665	11.9	20.6
1 6	3 51.25	+13 21.3	2.456	3.205	13.1	20.5	1 6	3 51.43	+24 55.4	1.881	2.671	15.0	20.8
411476	2011 <i>AS</i> ₂₂		11 28.1 6°88	3°9/26.9	18		205170	2000 <i>AH</i> ₂₁₈		11 28.1 167°56	0°8/27.8	18	
10 28	4 39.94	+10 15.0	1.886	2.747	12.5	19.8	10 28	4 42.47	+19 36.7	1.907	2.766	12.5	20.7
11 7	4 34.12	+10 6.4	1.823	2.747	9.2	19.6	11 7	4 35.97	+19 25.9	1.840	2.767	8.9	20.4
11 17	4 26.38	+10 3.7	1.785	2.748	5.8	19.4	11 17	4 27.41	+19 12.1	1.798	2.768	4.8	20.2
11 27	4 17.56	+10 9.0	1.774	2.749	3.9	19.3	11 27	4 17.68	+18 56.4	1.783	2.769	0.9	19.9
12 7	4 8.68	+10 24.0	1.792	2.751	5.8	19.4	12 7	4 7.91	+18 40.9	1.798	2.770	4.1	20.2
12 17	4 0.76	+10 49.3	1.837	2.753	9.2	19.6	12 17	3 59.18	+18 28.3	1.842	2.771	8.2	20.4
12 27	3 54.67	+11 24.7	1.908	2.755	12.5	19.8	12 27	3 52.42	+18 21.1	1.912	2.772	11.9	20.6
1 6	3 50.94	+12 9.1	2.000	2.758	15.3	20.1	1 6	3 48.19	+18 21.4	2.004	2.772	15.0	20.9
216923	1998 <i>DM</i> ₁₂		11 28.1 241°87	4°0/26.8	18		439393	2013 <i>AN</i> ₁₃₀		11 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
420601	2012 <i>HT</i> ₄₅		11 28.1 195°90	7°9/23.2	17		187169	2005 <i>SB</i> ₁₃		11 28.1 57°26	0°1/28.1	18	
10 28	4 37.34	- 5 26.4	2.671	3.482	10.8	21.2	10 28	4 41.16	+22 6.0	1.873	2.733	12.7	20.9
11 7	4 31.82	- 6 34.7	2.616	3.481	9.2	21.1	11 7	4 35.05	+21 50.1	1.812	2.739	9.0	20.7
11 17	4 24.99	- 7 30.2	2.585	3.478	8.1	21.0	11 17	4 26.91	+21 28.8	1.775	2.746	4.9	20.5
11 27	4 17.44	- 8 8.6	2.582	3.476	8.0	21.0	11 27	4 17.68	+21 3.4	1.767	2.753	0.5	20.1
12 7	4 9.89	- 8 27.2	2.605	3.473	8.9	21.1	12 7	4 8.48	+20 36.4	1.787	2.760	3.9	20.4
12 17	4 3.00	- 8 25.0	2.654	3.470	10.4	21.2	12 17	4 0.38	+20 11.0	1.835	2.768	8.0	20.7
12 27	3 57.37	- 8 3.1	2.726	3.466	12.1	21.3	12 27	3 54.28	+19 50.6	1.910	2.775	11.7	20.9
1 6	3 53.42	- 7 24.3	2.817	3.463	13.6	21.4	1 6	3 50.68	+19 37.7	2.006	2.782	14.7	21.2
117979	1233 <i>T</i> ₋₁		11 28.1 146°86	8°7/23.9	16		273641	2007 <i>DD</i> ₅₆		11 28.1 257°75	1°3/27.7	18	
10 28	4 44.11	- 0 16.0	1.922	2.754	13.5	21.0	10 28	4 44.02	+18 48.1	1.614	2.477	14.1	20.7
11 7	4 36.82	- 1 52.4	1.878	2.767	11.0	20.9	11 7	4 37.51	+18 37.4	1.538	2.468	10.1	20.4
11 17	4 27.73	- 3 15.7	1.859	2.779	9.1	20.8	11 17	4 28.46	+18 24.0	1.487	2.458	5.5	20.2
11 27	4 17.73	- 4 19.0	1.867	2.790	8.7	20.8	11 27	4 17.86	+18 9.3	1.463	2.449	1.3	19.9
12 7	4 7.86	- 4 57.9	1.903	2.801	10.1	20.9	12 7	4 7.04	+17 55.6	1.467	2.439	4.9	20.1
12 17	3 59.11	- 5 10.9	1.965	2.810	12.3	21.0	12 17	3 57.35	+17 45.9	1.498	2.428	9.7	20.3
12 27	3 52.26	- 4 59.7	2.050	2.818	14.7	21.2	12 27	3 49.97	+17 43.3	1.554	2.418	13.9	20.6
1 6	3 47.78	- 4 27.9	2.153	2.826	16.7	21.4	1 6	3 45.59	+17 49.7	1.631	2.408	17.5	20.8
346339	2008 <i>RE</i> ₅₈		11 28.1 205°19	2°7/29.1	18		165017	2000 <i>CM</i> ₁₀₈		11 28.1 331°70	1°4/28.8	18	
10 28	4 45.94	+28 45.3	1.839	2.682	13.6	21.5	10 28	4 39.09	+28 20.2	1.312	2.183	16.2	18.7
11 7	4 38.74	+28 57.6	1.764	2.679	10.1	21.3	11 7	4 34.57	+27 23.1	1.230	2.162	11.9	18.3
11 17	4 29.05	+28 59.1	1.713	2.675	6.1	21.1	11 17	4 27.07	+26 6.4	1.171	2.141	6.9	18.0
11 27	4 17.88	+28 48.4	1.690	2.671	2.9	20.9	11 27	4 17.73	+24 32.1	1.136	2.122	1.7	17.6
12 7	4 6.56	+28 26.2	1.696	2.667	4.5	21.0	12 7	4 8.16	+22 47.2	1.128	2.104	5.0	17.8
12 17	3 56.41	+27 56.1	1.731	2.662	8.5	21.2	12 17	3 59.98	+21 1.4	1.145	2.087	10.6	18.1
12 27	3 48.57	+27 23.5	1.791	2.657	12.3	21.4	12 27	3 54.54	+19 25.5	1.186	2.071	15.7	18.3
1 6	3 43.68	+26 53.4	1.874	2.651	15.5	21.6	1 6	3 52.56	+18 6.9	1.246	2.056	20.0	18.5
475899	2007 <i>DF</i> ₅₀		11 28.1 272°30	1°8/27.5	18		370343	2002 <i>RH</i> ₂₆₁		11 28.1 90°05	6°6/1.7	17	
10 28	4 43.57	+17 58.5	1.569	2.435	14.3	21.3	10 28	4 44.80	+43 0.4	2.401	3.185	12.7	21.3
11 7	4 37.28	+17 38.9	1.490	2.421	10.3	21.0	11 7	4 37.72	+43 31.2	2.333	3.190	10.4	21.1
11 17	4 28.37	+17 16.7	1.435	2.406	5.7	20.7	11 17	4 28.43	+43 44.4	2.287	3.196	8.3	21.0
11 27	4 17.82	+16 54.1	1.406	2.391	1.8	20.5	11 27	4 17.87	+43 37.0	2.268	3.202	6.8	20.9
12 7	4 7.00	+16 34.0	1.406	2.376	5.3	20.7	12 7	4 7.28	+43 8.9	2.277	3.208	6.8	20.9
12 17	3 57.29	+16 19.8	1.432	2.361	10.1	20.9	12 17	3 57.85	+42 23.3	2.313	3.213	8.4	21.0
12 27	3 49.91	+16 14.9	1.483	2.346	14.5	21.1	12 27	3 50.56	+41 26.0	2.376	3.219	10.5	21.2
1 6	3 45.58	+16 20.8	1.554	2.331	18.2	21.3	1 6	3 45.98	+40 23.5	2.462	3.225	12.6	21.3
406721	2008 <i>GE</i> ₂₄		11 28.1 156°79	4°6/25.9	18		446542	2014 <i>MY</i> ₄₇		11 28.1 143°56	4°1/26.1	18	
10 28	4 39.34	+ 8 40.4	2.254	3.106	11.1	21.9	10 28	4 40.43	+12 31.9	1.936	2.796	12.3	20.7
11 7	4 33.40	+ 7 50.4	2.193	3.110	8.3	21.7	11 7	4 34.40	+11 26.3	1.874	2.799	8.9	20.5
11 17	4 25.89	+ 7 5.2	2.158	3.113	5.7	21.6	11 17	4 26.53	+10 22.2	1.839	2.802	5.6	20.3
11 27	4 17.56	+ 6 28.5	2.152	3.117	4.6	21.5	11 27	4 17.69	+ 9 24.1	1.831	2.805	4.1	20.2
12 7	4 9.24	+ 6 3.2	2.175	3.120	6.2	21.6	12 7	4 8.89	+ 8 36.6	1.853	2.807	6.2	20.4
12 17	4 1.75	+ 5 51.4	2.226	3.122	8.9	21.8	12 17	4 1.08	+ 8 3.0	1.903	2.809	9.5	20.6
12 27	3 55.81	+ 5 53.6	2.303	3.125	11.6	22.0	12 27	3 55.09	+ 7 45.2	1.977	2.812	12.7	20.8
1 6	3 51.87	+ 6 8.9	2.402	3.127	13.9	22.2	1 6	3 51.41	+ 7 42.8	2.073	2.814	15.4	21.0
49170	1998 <i>SN</i> ₅₉		11 28.1 189°09	1°5/28.6	18		359031	2008 <i>WF</i> ₃₂		11 28.1 5°30	8°6/4.4	17	
10 28	4 46.02	+24 43.5	1.556	2.414	14.9	18.4	10 28	4 50.32	+48 41.0	1.229	2.028	21.5	19.2
11 7	4 39.03	+24 59.0	1.489	2.414	10.8	18.2	11 7	4 42.67	+47 6.4	1.158	2.028	17.8	19.0
11 17	4 29.29	+25 6.8	1.445	2.413	6.1	17.9	11 17	4 31.21	+44 42.7	1.105	2.029	13.6	18.7
11 27	4 17.92	+25 5.7	1.428	2.413	1.7	17.6	11 27	4 18.13	+41 27.9	1.077	2.031	9.7	18.5
12 7	4 6.40	+24 56.7	1.439	2.412	4.6	17.8	12 7	4 5.93	+37 32.8	1.076	2.035	8.7	18.5
12 17	3 56.24	+24 42.9	1.477	2.412	9.4	18.1	12 17	3 56.54	+33 19.2	1.104	2.040	11.6	18.7
12 27	3 48.64	+24 29.0	1.540	2.411	13.6	18.3	12 27	3 51.09	+29 12.3	1.160	2.047	15.8	18.9
1 6	3 44.28	+24 19.3	1.624	2.410	17.2	18.6	1 6	3 49.73	+25 31.5	1.239	2.055	19.8	19.2
471529	2012 <i>HW</i> ₉		11 28.1 103°31	3°0/27.3	18		44979	1999 <i>VT</i> ₁₅₇		11 28.1 7°00	2°7/27.1	18	
10 28	4 47.25	+14 3.3	1.658	2.515	14.1	21.4	10 28	4 41.93	+19 1.8	1.213	2.094	16.6	18.8
11 7	4 39.25	+13 48.1	1.614	2.539	10.1	21.2	11 7	4 36.34	+17 54.8	1.157	2.094	11.8	18.5
11 17	4 29.09	+13 35.2	1.596	2.563	5.8	21.0	11 17	4 27.89	+16 41.6	1.122	2.095	6.6	18.3
11 27	4 17.88	+13 26.7	1.605	2.586	3.0	20.9	11 27	4 17.84	+15 27.9	1.112	2.096	2.7	18.0
12 7	4 6.91	+13 24.6	1.643	2.608	5.5	21.1	12 7	4 7.84	+14 21.1	1.128	2.098	6.5	18.3
12 17	3 57.36	+13 30.6	1.710	2.630	9.4	21.4	12 17	3 59.43	+13 28.1	1.169	2.100	11.7	18.6
12 27	3 50.14	+13 45.7	1.802	2.650	13.0	21.7	12 27	3 53.80	+12 53.5	1.232	2.103	16.3	18.8
1 6	3 45.71	+14 9.8	1.915	2.671	16.0	21.9	1 6	3 51.55	+12 38.5	1.313	2.106	20.2	19.1
203622	2002 <i>EP</i> ₁₂₉		11 28.1 192°21	0°5/28.4	18		344601	2003 <i>EJ</i> ₁₄		11 28.1 238°59	2°0/27.4	18	
10 28	4 43.69	+24 8.7	2.136	2.983	11.8	21.3	10 28	4 44.04	+16 35.9	1.863	2.720	12.8	21.5
11 7	4 36.73	+23 51.8	2.061	2.981	8.5	21.1	11 7	4 37.28	+16 18.9	1.782	2.708	9.2	21.2
11 17	4 27.80	+23 27.7	2.011	2.979	4.7	20.9	11 17	4 28.28	+16 0.9	1.725	2.695	5.2	21.0
11 27	4 17.77	+22 57.3	1.990	2.977	0.8	20.6	11 27	4 17.90	+15 43.9	1.697	2.681	2.0	20.7
12 7	4 7.68	+22 22.8	2.000	2.973	3.6	20.8	12 7	4 7.29	+15 30.2	1.699	2.667	4.9	20.9
12 17	3 58.58	+21 47.5	2.040	2.969	7.5	21.1	12 17	3 57.64	+15 22.4	1.729	2.653	9.1	21.1
12 27	3 51.36	+21 15.4	2.106	2.965	11.0	21.3	12 27	3 49.99	+15 22.9	1.785	2.638	13.0	21.3
1 6	3 46.55	+20 49.7	2.196	2.960	14.0	21.5	1 6	3 44.98	+15 32.8	1.862	2.622	16.2	21.5
477392	2009 <i>VO</i> ₃₈		11 28.1 29°32	0°8/28.4	18		40137	1998 <i>QO</i> ₆₀					

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
430888	2005 QD ₁₈₀		11 28.1 65°65'	0°1'/28.2 16			173126	1994 AY ₈		11 28.1 335°62'	1°8'/27.5 18		
10 28	4 47.23	+23 39.0	1.316	2.182	16.5	21.1	10 28	4 41.04	+17 25.3	1.794	2.658	12.9	20.4
11 7	4 39.61	+23 7.0	1.281	2.211	11.7	20.9	11 7	4 35.11	+17 7.5	1.727	2.656	9.2	20.1
11 17	4 29.38	+22 26.1	1.268	2.239	6.3	20.7	11 17	4 27.06	+16 48.4	1.683	2.654	5.1	19.9
11 27	4 17.98	+21 39.0	1.282	2.268	0.7	20.3	11 27	4 17.80	+16 30.0	1.667	2.652	1.8	19.6
12 7	4 7.05	+20 50.4	1.322	2.297	4.8	20.7	12 7	4 8.46	+16 14.8	1.680	2.650	4.7	19.8
12 17	3 58.00	+20 6.1	1.390	2.325	9.8	21.1	12 17	4 0.15	+16 5.3	1.721	2.648	8.8	20.1
12 27	3 51.82	+19 31.1	1.482	2.353	14.0	21.4	12 27	3 53.85	+16 3.9	1.786	2.647	12.6	20.3
1 6	3 48.89	+19 8.2	1.594	2.381	17.4	21.7	1 6	3 50.11	+16 11.6	1.873	2.645	15.7	20.5
11586	1994 UA ₂		11 28.1 47°72'	2°4'/26.9 18			380015	2013 PA ₄₉		11 28.1 168°20'	2°8'/29.7 17		
10 28	4 39.47	+17 15.5	1.884	2.749	12.3	17.3	10 28	4 41.08	+32 1.6	2.640	3.466	10.5	21.4
11 7	4 33.74	+16 19.7	1.828	2.758	8.8	17.1	11 7	4 34.70	+32 0.1	2.565	3.468	7.9	21.2
11 17	4 26.18	+15 21.8	1.798	2.768	4.9	16.9	11 17	4 26.68	+31 48.1	2.517	3.470	5.1	21.0
11 27	4 17.67	+14 25.7	1.795	2.778	2.4	16.8	11 27	4 17.76	+31 25.2	2.497	3.472	2.9	20.9
12 7	4 9.26	+13 35.5	1.822	2.788	4.9	16.9	12 7	4 8.82	+30 52.7	2.507	3.473	3.7	20.9
12 17	4 1.93	+12 55.2	1.877	2.798	8.6	17.2	12 17	4 0.73	+30 13.4	2.547	3.474	6.3	21.1
12 27	3 56.46	+12 27.3	1.957	2.809	12.0	17.4	12 27	3 54.23	+29 31.1	2.615	3.475	9.1	21.3
1 6	3 53.32	+12 12.7	2.058	2.819	14.8	17.6	1 6	3 49.81	+28 50.0	2.708	3.476	11.5	21.5
471975	2013 TZ ₁₀₃		11 28.1 0°70'	2°0'/28.7 18			439494	2014 AR ₈		11 28.1 240°56'	1°0'/28.5 18		
10 28	4 40.33	+25 49.5	0.979	1.867	18.9	20.7	10 28	4 44.79	+24 49.5	1.779	2.632	13.5	21.8
11 7	4 35.97	+25 50.4	0.924	1.864	13.8	20.4	11 7	4 38.01	+24 42.1	1.699	2.621	9.8	21.6
11 17	4 28.00	+25 38.3	0.889	1.862	7.9	20.1	11 17	4 28.75	+24 26.2	1.642	2.611	5.5	21.3
11 27	4 17.88	+25 13.0	0.876	1.862	2.3	19.7	11 27	4 17.99	+24 2.0	1.613	2.599	1.2	21.0
12 7	4 7.64	+24 37.9	0.886	1.863	5.8	20.0	12 7	4 7.02	+23 31.3	1.614	2.587	4.2	21.2
12 17	3 59.30	+23 59.6	0.919	1.865	11.8	20.3	12 17	3 57.15	+22 58.1	1.642	2.575	8.7	21.4
12 27	3 54.37	+23 25.9	0.972	1.870	17.2	20.6	12 27	3 49.51	+22 27.2	1.697	2.563	12.8	21.6
1 6	3 53.53	+23 2.1	1.043	1.875	21.6	20.9	1 6	3 44.78	+22 2.9	1.773	2.550	16.3	21.9
487559	2014 WX ₁₀₄		11 28.1 88°31'	2°6'/29.2 17			45765	2000 LJ ₃		11 28.1 91°13'	3°8'/26.5 18		
10 28	4 42.40	+28 56.3	2.241	3.079	11.6	21.3	10 28	4 40.97	+12 28.2	1.963	2.822	12.2	18.1
11 7	4 35.87	+29 19.6	2.173	3.084	8.6	21.1	11 7	4 34.68	+11 38.8	1.913	2.837	8.8	18.0
11 17	4 27.39	+29 34.2	2.130	3.090	5.3	20.9	11 17	4 26.65	+10 52.1	1.889	2.853	5.5	17.8
11 27	4 17.81	+29 38.8	2.116	3.095	2.7	20.8	11 27	4 17.76	+10 11.7	1.893	2.868	3.8	17.7
12 7	4 8.14	+29 33.9	2.131	3.100	4.0	20.9	12 7	4 8.99	+9 41.0	1.927	2.883	5.7	17.9
12 17	3 59.43	+29 21.5	2.176	3.105	7.1	21.1	12 17	4 1.28	+9 22.5	1.988	2.898	8.9	18.1
12 27	3 52.55	+29 5.2	2.247	3.110	10.2	21.3	12 27	3 55.39	+9 17.2	2.075	2.913	12.0	18.3
1 6	3 48.05	+28 49.0	2.342	3.115	12.9	21.5	1 6	3 51.75	+9 24.7	2.183	2.928	14.6	18.5
343722	2011 ED ₆₉		11 28.1 130°74'	0°3'/28.0 18			10244	Thüringer Wald		11 28.1 7°95'	3°9'/29.0 18		
10 28	4 46.20	+20 28.3	1.870	2.722	13.0	21.5	10 28	4 45.52	+28 23.4	1.297	2.160	16.9	17.7
11 7	4 38.59	+20 29.8	1.812	2.736	9.2	21.3	11 7	4 39.24	+29 9.1	1.237	2.161	12.6	17.5
11 17	4 28.85	+20 27.7	1.779	2.749	5.0	21.1	11 17	4 29.68	+29 43.5	1.198	2.162	7.8	17.2
11 27	4 17.96	+20 22.4	1.775	2.761	0.6	20.8	11 27	4 18.11	+30 2.6	1.183	2.163	4.1	17.0
12 7	4 7.12	+20 15.4	1.801	2.773	4.0	21.1	12 7	4 6.32	+30 5.7	1.195	2.166	6.0	17.1
12 17	3 57.50	+20 9.0	1.856	2.784	8.2	21.3	12 17	3 56.14	+29 56.0	1.232	2.168	10.6	17.4
12 27	3 50.02	+20 6.1	1.937	2.795	11.8	21.6	12 27	3 49.04	+29 40.0	1.292	2.172	15.0	17.7
1 6	3 45.21	+20 8.8	2.041	2.805	14.8	21.8	1 6	3 45.73	+29 24.0	1.371	2.176	18.8	17.9
298445	2003 US ₅₃		11 28.1 19°04'	6°3'/30.2 17			23811	Connorivens		11 28.1 183°70'	1°7'/28.9 18		
10 28	4 45.28	+35 16.7	1.469	2.310	16.5	20.7	10 28	4 44.03	+27 18.7	2.129	2.970	12.1	19.5
11 7	4 38.89	+35 59.6	1.409	2.313	12.9	20.5	11 7	4 37.08	+27 15.5	2.055	2.971	8.8	19.3
11 17	4 29.38	+36 24.3	1.370	2.317	9.1	20.3	11 17	4 28.09	+27 3.4	2.007	2.971	5.1	19.1
11 27	4 18.02	+36 26.7	1.356	2.322	6.5	20.2	11 27	4 17.95	+26 41.9	1.987	2.970	1.9	18.9
12 7	4 6.56	+36 6.5	1.368	2.328	7.2	20.2	12 7	4 7.76	+26 12.8	1.997	2.969	3.7	19.0
12 17	3 56.71	+35 28.3	1.406	2.334	10.4	20.4	12 17	3 58.58	+25 39.3	2.037	2.968	7.4	19.2
12 27	3 49.83	+34 40.0	1.467	2.340	14.0	20.7	12 27	3 51.34	+25 5.6	2.104	2.966	10.9	19.5
1 6	3 46.58	+33 50.3	1.549	2.347	17.3	20.9	1 6	3 46.59	+24 35.9	2.194	2.964	13.8	19.7
253866	2004 AT ₂₅		11 28.1 223°36'	1°3'/27.4 18			389730	2011 SF ₉₃		11 28.1 156°84'	4°2'/30.0 18		
10 28	4 41.56	+19 43.6	2.444	3.293	10.4	21.1	10 28	4 46.71	+34 21.9	2.186	3.005	12.6	21.6
11 7	4 35.04	+18 54.3	2.359	3.282	7.4	20.9	11 7	4 39.04	+34 39.8	2.117	3.012	9.7	21.5
11 17	4 26.87	+18 0.2	2.301	3.270	4.1	20.7	11 17	4 29.17	+34 44.0	2.073	3.019	6.6	21.3
11 27	4 17.76	+17 3.7	2.273	3.258	1.3	20.4	11 27	4 18.06	+34 32.4	2.056	3.024	4.4	21.2
12 7	4 8.58	+16 8.2	2.276	3.245	3.8	20.6	12 7	4 6.94	+34 5.9	2.069	3.030	5.0	21.2
12 17	4 0.18	+15 17.5	2.310	3.231	7.3	20.8	12 17	3 56.97	+33 27.7	2.112	3.035	7.7	21.4
12 27	3 53.33	+14 34.8	2.372	3.217	10.5	21.0	12 27	3 49.12	+32 43.3	2.181	3.039	10.7	21.6
1 6	3 48.52	+14 2.5	2.457	3.202	13.2	21.1	1 6	3 43.97	+31 58.4	2.274	3.042	13.4	21.8
506286	2017 AP ₁₆		11 28.1 278°02'	1°1'/27.7 17			52432	1994 PG ₁₁		11 28.1 42°73'	1°2'/27.8 18		
10 28	4 41.37	+19 21.1	1.904	2.764	12.4	21.6	10 28	4 44.59	+20 12.0	1.100	1.982	17.8	17.8
11 7	4 35.39	+19 0.7	1.821	2.749	8.9	21.4	11 7	4 38.17	+19 50.4	1.066	2.004	12.6	17.6
11 17	4 27.26	+18 36.7	1.762	2.733	4.9	21.1	11 17	4 28.81	+19 24.1	1.053	2.026	6.7	17.4
11 27	4 17.82	+18 10.9	1.731	2.717	1.2	20.8	11 27	4 18.02	+18 56.0	1.064	2.050	1.3	17.1
12 7	4 8.16	+17 45.7	1.730	2.701	4.4	21.0	12 7	4 7.62	+18 30.0	1.100	2.074	5.6	17.4
12 17	3 59.40	+17 24.4	1.757	2.685	8.6	21.3	12 17	3 59.18	+18 10.8	1.161	2.099	10.9	17.8
12 27	3 52.56	+17 10.0	1.809	2.669	12.5	21.5	12 27	3 53.81	+18 1.8	1.244	2.124	15.5	18.2
1 6	3 48.26	+17 4.7	1.883	2.653	15.7	21.7	1 6	3 51.93	+18 4.3	1.347	2.150	19.2	18.5
63300	2001 EV ₈		11 28.1 113°11'	1°1'/28.5 18			449564	2014 JX		11 28.1 119°18'	2°4'/29.4 18		
10 28	4 48.47	+24 42.6	1.731	2.580	14.1	19.2	10 28</						

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
343369	2010 <i>CU</i> ₉₃		11 28.1 330°97	3°2/28.9	18		517411	2014 <i>LV</i> ₂₉		11 28.2 154°08	4°2/26.2	18	
10 28	4 43.05	+27 31.6	1.307	2.175	16.5	20.8	10 28	4 39.96	+9 55.5	2.230	3.083	11.2	22.1
11 7	4 37.59	+28 0.5	1.235	2.162	12.3	20.5	11 7	4 33.93	+9 12.5	2.168	3.087	8.2	21.9
11 17	4 28.88	+28 18.9	1.183	2.150	7.5	20.2	11 17	4 26.31	+8 33.6	2.133	3.091	5.4	21.7
11 27	4 18.07	+28 23.8	1.156	2.138	3.4	19.9	11 27	4 17.82	+8 2.1	2.126	3.095	4.2	21.7
12 7	4 6.86	+28 15.2	1.155	2.128	5.6	20.0	12 7	4 9.35	+7 40.7	2.148	3.098	5.8	21.8
12 17	3 57.05	+27 56.7	1.178	2.118	10.6	20.3	12 17	4 1.73	+7 31.4	2.199	3.101	8.6	22.0
12 27	3 50.17	+27 34.4	1.225	2.109	15.4	20.5	12 27	3 55.67	+7 35.0	2.276	3.104	11.4	22.1
1 6	3 47.04	+27 14.7	1.291	2.101	19.5	20.7	1 6	3 51.65	+7 50.6	2.375	3.107	13.9	22.3
115516	2003 <i>UF</i> ₃₇		11 28.2 302°87	8°5/	1.2	18	152443	2005 <i>UY</i> ₄₆₀		11 28.2 38°04	0°7/28.4	18	
10 28	4 47.39	+41 54.8	1.704	2.510	16.1	19.1	10 28	4 41.31	+24 0.2	1.799	2.658	13.1	19.8
11 7	4 40.57	+42 46.0	1.626	2.500	13.3	18.9	11 7	4 35.32	+23 52.8	1.739	2.665	9.4	19.6
11 17	4 30.46	+43 16.2	1.570	2.489	10.5	18.7	11 17	4 27.20	+23 38.4	1.704	2.673	5.2	19.3
11 27	4 18.24	+43 19.2	1.538	2.479	8.7	18.6	11 27	4 17.92	+23 17.7	1.695	2.681	1.0	19.0
12 7	4 5.64	+42 53.3	1.531	2.469	8.9	18.6	12 7	4 8.67	+22 53.0	1.716	2.690	3.9	19.3
12 17	3 54.51	+42 1.9	1.550	2.460	11.1	18.7	12 17	4 0.57	+22 27.7	1.764	2.699	8.1	19.6
12 27	3 46.35	+40 53.7	1.594	2.450	14.0	18.9	12 27	3 54.56	+22 5.4	1.838	2.708	11.8	19.8
1 6	3 41.97	+39 38.8	1.658	2.441	17.0	19.0	1 6	3 51.16	+21 49.4	1.934	2.717	14.9	20.0
287811	2003 <i>SS</i> ₁₈₀		11 28.2 356°03	7°9/	1.2	17	37589	1991 <i>NN</i> ₉		11 28.2 48°36	3°0/27.0	18	
10 28	4 43.24	+40 57.5	1.725	2.539	15.6	20.0	10 28	4 42.36	+17 3.3	1.370	2.245	15.4	17.5
11 7	4 37.40	+41 46.0	1.656	2.535	12.8	19.8	11 7	4 36.23	+16 6.2	1.327	2.261	11.0	17.3
11 17	4 28.62	+42 14.4	1.608	2.532	10.0	19.6	11 17	4 27.69	+15 7.6	1.307	2.278	6.2	17.0
11 27	4 18.04	+42 17.8	1.585	2.530	8.1	19.5	11 27	4 17.96	+14 12.4	1.313	2.295	3.0	16.9
12 7	4 7.24	+41 55.3	1.587	2.528	8.3	19.5	12 7	4 8.47	+13 26.0	1.345	2.313	6.1	17.1
12 17	3 57.84	+41 10.5	1.615	2.528	10.4	19.6	12 17	4 0.51	+12 52.7	1.404	2.330	10.5	17.4
12 27	3 51.17	+40 11.1	1.667	2.528	13.3	19.8	12 27	3 55.05	+12 35.0	1.486	2.349	14.5	17.7
1 6	3 47.92	+39 5.9	1.739	2.529	16.0	20.0	1 6	3 52.54	+12 33.0	1.588	2.367	17.8	18.0
464621	2016 <i>CD</i> ₂₄₄		11 28.2 321°63	0°7/28.3	16		80901	2000 <i>DY</i> ₅₅		11 28.2 92°07	1°5/28.7	18	
10 28	4 42.15	+21 19.2	1.835	2.694	12.9	20.8	10 28	4 47.33	+25 35.6	1.552	2.407	15.1	19.4
11 7	4 36.29	+21 57.7	1.742	2.669	9.3	20.6	11 7	4 39.74	+25 35.6	1.502	2.425	10.8	19.2
11 17	4 27.97	+22 35.1	1.675	2.645	5.2	20.3	11 17	4 29.61	+25 25.9	1.476	2.444	6.1	19.0
11 27	4 17.99	+23 9.9	1.635	2.621	0.9	19.9	11 27	4 18.17	+25 6.7	1.477	2.462	1.7	18.7
12 7	4 7.52	+23 41.1	1.624	2.597	4.1	20.1	12 7	4 6.93	+24 40.1	1.507	2.480	4.4	19.0
12 17	3 57.82	+24 9.1	1.641	2.575	8.6	20.3	12 17	3 57.25	+24 10.6	1.564	2.498	9.0	19.3
12 27	3 50.11	+24 35.5	1.683	2.552	12.8	20.5	12 27	3 50.19	+23 43.3	1.646	2.515	13.0	19.5
1 6	3 45.19	+25 2.8	1.748	2.531	16.3	20.7	1 6	3 46.25	+23 22.3	1.750	2.532	16.3	19.8
434040	2001 <i>SL</i> ₃₀₉		11 28.2 113°09	0°7/28.4	18		108209	2001 <i>HS</i> ₂₈		11 28.2 175°84	1°0/27.7	18	
10 28	4 46.62	+24 0.8	1.720	2.572	13.9	22.0	10 28	4 45.14	+20 33.3	1.866	2.720	12.9	20.3
11 7	4 39.03	+23 52.3	1.666	2.589	10.0	21.8	11 7	4 37.94	+19 57.1	1.798	2.723	9.2	20.1
11 17	4 29.15	+23 36.1	1.636	2.605	5.5	21.6	11 17	4 28.60	+19 15.5	1.755	2.725	5.0	19.8
11 27	4 18.09	+23 12.8	1.635	2.621	1.0	21.3	11 27	4 18.08	+18 30.7	1.741	2.727	1.1	19.5
12 7	4 7.16	+22 44.9	1.663	2.636	4.1	21.6	12 7	4 7.57	+17 46.5	1.756	2.727	4.4	19.8
12 17	3 57.63	+22 16.2	1.719	2.651	8.5	21.9	12 17	3 58.21	+17 6.8	1.801	2.727	8.6	20.0
12 27	3 50.46	+21 51.1	1.801	2.666	12.3	22.1	12 27	3 50.94	+16 35.5	1.872	2.727	12.4	20.3
1 6	3 46.15	+21 33.0	1.906	2.679	15.4	22.4	1 6	3 46.32	+16 15.0	1.964	2.725	15.5	20.5
328753	2009 <i>UL</i> ₆₄		11 28.2 215°61	3°6/26.2	17		225906	2002 <i>AO</i> ₃₆		11 28.2 340°46	4°8/27.1	18	
10 28	4 38.71	+10 7.3	2.650	3.499	9.7	21.9	10 28	4 41.42	+11 8.6	1.241	2.120	16.4	19.7
11 7	4 32.92	+9 26.6	2.575	3.492	7.2	21.7	11 7	4 36.16	+10 55.5	1.176	2.110	12.1	19.4
11 17	4 25.73	+8 48.8	2.527	3.485	4.7	21.5	11 17	4 28.00	+10 49.8	1.133	2.101	7.6	19.1
11 27	4 17.76	+8 16.8	2.508	3.477	3.6	21.4	11 27	4 18.04	+10 55.0	1.114	2.093	4.8	19.0
12 7	4 9.71	+7 53.1	2.519	3.468	5.1	21.5	12 7	4 7.83	+11 13.8	1.121	2.085	7.5	19.1
12 17	4 2.32	+7 39.5	2.560	3.460	7.7	21.7	12 17	3 58.94	+11 47.1	1.151	2.079	12.2	19.3
12 27	3 56.24	+7 37.1	2.628	3.451	10.3	21.8	12 27	3 52.70	+12 34.4	1.204	2.074	16.7	19.6
1 6	3 51.90	+7 45.7	2.718	3.441	12.5	22.0	1 6	3 49.87	+13 33.6	1.275	2.069	20.6	19.8
443689	2015 <i>KM</i> ₃₉		11 28.2 106°66	0°8/28.5	18		397945	2008 <i>YK</i> ₁₅		11 28.2 49°94	5°5/27.0	18	
10 28	4 44.56	+25 13.1	1.565	2.424	14.7	21.3	10 28	4 43.49	+7 57.7	1.476	2.339	15.2	20.1
11 7	4 37.87	+24 45.1	1.502	2.429	10.6	21.1	11 7	4 36.95	+7 44.6	1.430	2.353	11.3	19.9
11 17	4 28.65	+24 6.7	1.464	2.433	5.9	20.8	11 17	4 28.10	+7 41.2	1.407	2.366	7.5	19.8
11 27	4 18.07	+23 19.4	1.452	2.438	1.1	20.5	11 27	4 18.03	+7 50.8	1.410	2.381	5.5	19.7
12 7	4 7.53	+22 27.1	1.469	2.443	4.4	20.8	12 7	4 8.08	+8 14.6	1.439	2.395	7.4	19.8
12 17	3 58.42	+21 35.4	1.513	2.448	9.2	21.1	12 17	3 59.48	+8 52.6	1.495	2.410	11.0	20.1
12 27	3 51.78	+20 49.9	1.582	2.452	13.3	21.3	12 27	3 53.22	+9 43.1	1.575	2.425	14.6	20.3
1 6	3 48.19	+20 14.7	1.672	2.457	16.8	21.6	1 6	3 49.83	+10 43.6	1.675	2.440	17.6	20.6
305988	2009 <i>JN</i> ₄		11 28.2 283°58	8°7/24.9	18		438540	2007 <i>TV</i> ₁₈₉		11 28.2 82°93	1°3/27.7	15	
10 28	4 40.79	- 1 12.0	1.837	2.675	13.8	20.1	10 28	4 43.28	+19 22.9	1.678	2.541	13.7	21.8
11 7	4 34.90	- 2 1.8	1.770	2.663	11.3	19.9	11 7	4 36.70	+18 58.0	1.624	2.553	9.7	21.6
11 17	4 27.00	- 2 37.1	1.725	2.651	9.3	19.7	11 17	4 27.93	+18 29.7	1.594	2.565	5.3	21.4
11 27	4 17.90	- 2 52.3	1.706	2.638	8.8	19.7	11 27	4 18.02	+18 0.2	1.592	2.577	1.3	21.1
12 7	4 8.65	- 2 44.0	1.713	2.626	10.1	19.7	12 7	4 8.21	+17 32.6	1.618	2.589	4.6	21.4
12 17	4 0.31	- 2 11.4	1.746	2.613	12.5	19.8	12 17	3 59.67	+17 10.3	1.672	2.602	8.9	21.7
12 27	3 53.81	- 1 16.7	1.802	2.601	15.2	20.0	12 27	3 53.34	+16 56.3	1.751	2.614	12.7	22.0
1 6	3 49.72	- 0 4.0	1.876	2.589	17.7	20.2	1 6	3 49.73	+16 52.1	1.852	2.625	15.8	22.2
233630	2007 <i>UF</i> ₉₁		11 28.2 182°51	0°2/28.3	18		171413	2006 <i>RK</i> ₅₀		11 28.2 104°			

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
316933	2001 AV ₅₀		11 28.2 234°01	4°1/26.6	18 R		42086	2001 AE ₁₃		11 28.2 33°44	1°2/27.8	18	
10 28	4 39.91	+ 9 1.3	2.248	3.099	11.1	20.2	10 28	4 42.44	+19 53.7	1.186	2.067	16.9	18.5
11 7	4 33.98	+ 8 39.7	2.178	3.095	8.3	20.0	11 7	4 36.64	+19 32.6	1.147	2.084	11.9	18.3
11 17	4 26.40	+ 8 23.4	2.133	3.091	5.5	19.8	11 17	4 28.06	+19 7.4	1.129	2.103	6.4	18.1
11 27	4 17.88	+ 8 14.9	2.118	3.087	4.1	19.7	11 27	4 18.07	+18 40.8	1.136	2.122	1.3	17.8
12 7	4 9.27	+ 8 16.2	2.131	3.083	5.7	19.8	12 7	4 8.34	+18 16.6	1.168	2.142	5.4	18.1
12 17	4 1.45	+ 8 28.5	2.173	3.078	8.6	20.0	12 17	4 0.34	+17 59.0	1.225	2.163	10.5	18.5
12 27	3 55.16	+ 8 51.9	2.241	3.074	11.4	20.2	12 27	3 55.18	+17 51.1	1.305	2.185	15.0	18.8
1 6	3 50.92	+ 9 25.6	2.331	3.069	14.0	20.4	1 6	3 53.30	+17 54.3	1.404	2.207	18.6	19.1
156870	2003 DU ₁₈		11 28.2 238°19	1°3/27.8	18		48702	1996 JE		11 28.2 245°37	0°8/28.4	18	
10 28	4 44.29	+18 45.7	1.733	2.593	13.5	20.7	10 28	4 45.66	+21 48.4	1.918	2.769	12.8	18.9
11 7	4 37.64	+18 32.5	1.657	2.584	9.7	20.5	11 7	4 38.56	+22 25.5	1.841	2.764	9.2	18.6
11 17	4 28.61	+18 16.5	1.605	2.575	5.3	20.2	11 17	4 29.12	+22 59.9	1.790	2.758	5.1	18.4
11 27	4 18.13	+17 59.3	1.580	2.566	1.3	19.9	11 27	4 18.21	+23 30.0	1.767	2.753	1.0	18.1
12 7	4 7.45	+17 43.1	1.585	2.556	4.7	20.1	12 7	4 7.03	+23 55.2	1.774	2.747	4.0	18.3
12 17	3 57.84	+17 30.8	1.618	2.546	9.2	20.4	12 17	3 56.82	+24 16.2	1.810	2.741	8.2	18.5
12 27	3 50.39	+17 25.5	1.676	2.536	13.3	20.6	12 27	3 48.65	+24 35.1	1.873	2.735	12.0	18.8
1 6	3 45.77	+17 29.0	1.755	2.526	16.7	20.8	1 6	3 43.23	+24 54.7	1.958	2.729	15.2	19.0
223366	2003 SF ₂₂		11 28.2 111°77	2°7/29.6	18		234578	2001 XT ₁₇₇		11 28.2 23°76	1°5/27.7	18	
10 28	4 41.90	+31 19.9	2.382	3.213	11.3	20.0	10 28	4 41.42	+19 39.6	1.126	2.012	17.2	20.0
11 7	4 35.41	+31 15.1	2.316	3.222	8.4	19.8	11 7	4 36.13	+19 13.7	1.081	2.021	12.2	19.7
11 17	4 27.15	+30 59.4	2.275	3.231	5.3	19.7	11 17	4 27.89	+18 43.5	1.057	2.031	6.6	19.5
11 27	4 17.96	+30 32.4	2.263	3.240	2.9	19.5	11 27	4 18.07	+18 12.2	1.057	2.043	1.6	19.2
12 7	4 8.81	+29 55.9	2.281	3.249	3.8	19.6	12 7	4 8.39	+17 44.2	1.082	2.056	5.7	19.5
12 17	4 0.64	+29 13.1	2.328	3.258	6.7	19.8	12 17	4 0.44	+17 23.9	1.131	2.070	11.1	19.8
12 27	3 54.24	+28 28.5	2.403	3.266	9.6	20.0	12 27	3 55.40	+17 15.0	1.202	2.085	15.8	20.2
1 6	3 50.07	+27 46.2	2.502	3.275	12.2	20.2	1 6	3 53.80	+17 18.6	1.292	2.100	19.6	20.5
74757	1999 RZ ₂₀₅		11 28.2 107°34	2°7/29.3	18		433985	1999 XT ₁₃₉		11 28.2 52°91	0°2/28.1	17	
10 28	4 47.83	+29 36.5	1.503	2.352	15.8	18.8	10 28	4 47.24	+20 34.8	1.358	2.225	16.1	20.4
11 7	4 40.27	+29 21.8	1.448	2.365	11.6	18.6	11 7	4 39.67	+20 46.0	1.327	2.257	11.3	20.2
11 17	4 29.98	+28 52.3	1.415	2.378	6.9	18.4	11 17	4 29.55	+20 52.9	1.318	2.289	6.1	20.0
11 27	4 18.26	+28 7.7	1.409	2.391	3.0	18.1	11 27	4 18.24	+20 55.7	1.335	2.322	0.6	19.7
12 7	4 6.72	+27 11.8	1.430	2.403	4.8	18.3	12 7	4 7.32	+20 56.0	1.380	2.354	4.7	20.1
12 17	3 56.86	+26 10.9	1.480	2.415	9.3	18.6	12 17	3 58.17	+20 56.5	1.452	2.387	9.5	20.4
12 27	3 49.79	+25 12.5	1.554	2.426	13.4	18.9	12 27	3 51.79	+21 0.4	1.548	2.419	13.5	20.7
1 6	3 46.02	+24 22.4	1.650	2.437	16.9	19.1	1 6	3 48.59	+21 9.7	1.665	2.452	16.8	21.0
408166	2013 CQ ₁₆₈		11 28.2 198°07	0°3/28.1	18		60267	1999 XF ₂₇		11 28.2 213°20	0°3/28.3	18	
10 28	4 42.46	+20 39.9	2.256	3.107	11.1	21.9	10 28	4 42.09	+21 36.5	2.269	3.118	11.1	18.9
11 7	4 35.88	+20 36.3	2.181	3.104	7.9	21.7	11 7	4 35.66	+21 51.8	2.194	3.116	7.9	18.7
11 17	4 27.47	+20 29.3	2.132	3.101	4.3	21.5	11 17	4 27.39	+22 3.9	2.145	3.114	4.4	18.5
11 27	4 18.01	+20 19.6	2.112	3.098	0.5	21.2	11 27	4 18.04	+22 12.6	2.126	3.112	0.6	18.2
12 7	4 8.45	+20 8.7	2.122	3.095	3.5	21.4	12 7	4 8.55	+22 18.4	2.137	3.110	3.4	18.4
12 17	3 59.74	+19 58.4	2.162	3.091	7.2	21.7	12 17	3 59.89	+22 22.7	2.177	3.108	7.1	18.7
12 27	3 52.72	+19 51.5	2.230	3.086	10.6	21.9	12 27	3 52.90	+22 27.6	2.245	3.105	10.4	18.9
1 6	3 47.92	+19 49.8	2.320	3.081	13.4	22.0	1 6	3 48.14	+22 35.3	2.336	3.102	13.1	19.1
224202	2005 RD ₂₉		11 28.2 41°84	2°9/28.8	18		398149	2010 EM ₆₈		11 28.2 196°89	1°2/27.8	18	
10 28	4 47.22	+25 46.6	1.276	2.142	17.0	19.4	10 28	4 43.57	+18 40.9	1.889	2.746	12.7	21.5
11 7	4 40.34	+26 33.6	1.224	2.151	12.4	19.1	11 7	4 36.91	+18 29.0	1.819	2.745	9.0	21.3
11 17	4 30.25	+27 11.8	1.194	2.162	7.3	18.9	11 17	4 28.13	+18 14.7	1.773	2.743	4.9	21.1
11 27	4 18.31	+27 37.6	1.189	2.173	3.0	18.7	11 27	4 18.11	+17 59.3	1.755	2.741	1.2	20.8
12 7	4 6.32	+27 50.6	1.211	2.184	5.5	18.9	12 7	4 8.01	+17 45.1	1.767	2.739	4.3	21.0
12 17	3 56.05	+27 53.3	1.258	2.196	10.4	19.2	12 17	3 58.93	+17 34.5	1.808	2.736	8.5	21.3
12 27	3 48.87	+27 51.2	1.329	2.208	14.8	19.5	12 27	3 51.84	+17 30.1	1.875	2.733	12.2	21.5
1 6	3 45.42	+27 49.6	1.419	2.220	18.5	19.7	1 6	3 47.33	+17 33.5	1.963	2.729	15.3	21.7
396925	2005 EY ₂₅₆		11 28.2 193°86	0°1/28.1	18		151646	2002 XA ₆₆		11 28.2 310°79	7°3/27.7	18	
10 28	4 42.71	+22 13.1	1.931	2.786	12.5	21.9	10 28	4 54.27	+29 33.9	1.328	2.175	17.6	18.2
11 7	4 36.27	+21 56.8	1.860	2.785	8.9	21.7	11 7	4 46.88	+31 59.0	1.232	2.143	13.8	17.9
11 17	4 27.74	+21 34.8	1.814	2.784	4.9	21.4	11 17	4 34.87	+34 25.8	1.159	2.111	9.7	17.6
11 27	4 18.04	+21 8.3	1.797	2.783	0.5	21.1	11 27	4 18.96	+36 41.5	1.112	2.080	7.4	17.4
12 7	4 8.27	+20 39.6	1.809	2.782	3.9	21.4	12 7	4 0.98	+38 33.2	1.094	2.048	9.3	17.4
12 17	3 59.54	+20 12.0	1.849	2.780	8.1	21.6	12 17	3 43.56	+39 54.0	1.102	2.017	13.9	17.5
12 27	3 52.79	+19 49.1	1.916	2.778	11.7	21.8	12 27	3 29.41	+40 46.8	1.133	1.987	18.7	17.7
1 6	3 48.58	+19 33.8	2.005	2.776	14.8	22.1	1 6	3 20.32	+41 21.1	1.182	1.958	22.9	17.9
301556	2009 HS ₁		11 28.2 322°45	4°7/29.1	17		263373	2008 CG ₁₆₈		11 28.2 344°76	3°5/27.1	18	
10 28	4 46.08	+30 4.3	1.590	2.437	15.1	20.5	10 28	4 42.43	+15 47.5	1.213	2.094	16.6	20.6
11 7	4 39.54	+31 9.6	1.513	2.427	11.5	20.2	11 7	4 36.88	+15 7.0	1.153	2.089	12.0	20.3
11 17	4 29.94	+32 5.5	1.459	2.416	7.6	20.0	11 17	4 28.39	+14 25.8	1.114	2.086	6.9	20.0
11 27	4 18.30	+32 46.9	1.431	2.406	4.8	19.8	11 27	4 18.15	+13 48.6	1.100	2.082	3.5	19.8
12 7	4 6.16	+33 11.3	1.431	2.396	6.2	19.9	12 7	4 7.81	+13 20.4	1.111	2.080	6.8	20.0
12 17	3 55.19	+33 19.7	1.458	2.387	10.0	20.1	12 17	3 58.95	+13 5.3	1.147	2.077	11.9	20.3
12 27	3 46.87	+33 17.0	1.509	2.378	13.9	20.3	12 27	3 52.87	+13 6.1	1.205	2.076	16.6	20.6
1 6	3 42.05	+33 9.5	1.581	2.370	17.4	20.5	1 6	3 50.24	+13 22.7	1.281	2.075	20.5	20.8
308967	2006 TH ₇₀		11 28.2 87°44	0°8/28.5	18		46088	2001 EO ₁₂		11 28.2 247°84	5°6/26.0	18	
10 28	4 43.65	+24 2											

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
407588	2011 AE ₅₆		11 28.2 353°82	1°3/27.8	17		395839	2012 XC ₁₀₇		11 28.2 326°32	1°3/28.7	18	
10 28	4 39.08	+18 18.7	1.534	2.408	14.1	20.6	10 28	4 42.66	+26 1.5	1.534	2.396	14.8	20.5
11 7	4 34.12	+18 15.0	1.467	2.402	10.1	20.4	11 7	4 36.77	+25 45.3	1.463	2.390	10.8	20.2
11 17	4 26.76	+18 9.9	1.424	2.397	5.5	20.1	11 17	4 28.24	+25 18.2	1.415	2.384	6.1	19.9
11 27	4 17.98	+18 5.0	1.407	2.393	1.4	19.8	11 27	4 18.16	+24 40.7	1.393	2.379	1.6	19.6
12 7	4 9.05	+18 2.1	1.417	2.390	4.8	20.1	12 7	4 7.95	+23 55.9	1.399	2.374	4.5	19.8
12 17	4 1.25	+18 3.7	1.453	2.388	9.4	20.3	12 17	3 59.03	+23 9.0	1.431	2.369	9.3	20.1
12 27	3 55.67	+18 11.9	1.513	2.387	13.6	20.6	12 27	3 52.59	+22 26.1	1.488	2.364	13.7	20.3
1 6	3 52.95	+18 28.1	1.594	2.387	17.1	20.8	1 6	3 49.27	+21 51.8	1.566	2.360	17.4	20.6
345390	2006 BT ₁₄₈		11 28.2 256°39	1°8/27.6	18		29852	Niralithakor		11 28.2 300°63	2°3/29.1	18	
10 28	4 43.39	+17 49.3	1.795	2.655	13.1	21.6	10 28	4 42.38	+28 2.0	1.829	2.679	13.3	18.6
11 7	4 36.99	+17 27.5	1.713	2.641	9.4	21.3	11 7	4 36.35	+28 2.7	1.750	2.669	9.8	18.4
11 17	4 28.28	+17 3.3	1.656	2.626	5.2	21.0	11 17	4 27.96	+27 53.0	1.695	2.659	5.9	18.1
11 27	4 18.15	+16 38.8	1.627	2.612	1.8	20.8	11 27	4 18.13	+27 32.2	1.666	2.649	2.4	17.9
12 7	4 7.77	+16 16.6	1.627	2.596	4.8	20.9	12 7	4 8.12	+27 1.8	1.667	2.639	4.3	18.0
12 17	3 58.38	+16 0.0	1.654	2.581	9.2	21.2	12 17	3 59.17	+26 25.4	1.695	2.630	8.4	18.2
12 27	3 51.02	+15 51.8	1.707	2.565	13.2	21.4	12 27	3 52.38	+25 48.4	1.749	2.621	12.2	18.4
1 6	3 46.39	+15 53.7	1.782	2.549	16.6	21.6	1 6	3 48.39	+25 15.4	1.825	2.612	15.5	18.6
272455	2005 UA ₅₀		11 28.2 94°79	6°7/29.7	18		435498	2008 GF ₉₀		11 28.2 282°22	2°5/27.3	18	
10 28	4 51.34	+35 1.8	1.561	2.390	16.3	20.4	10 28	4 43.79	+17 18.4	1.430	2.301	15.2	21.7
11 7	4 43.34	+36 19.6	1.500	2.397	12.8	20.2	11 7	4 37.77	+16 44.1	1.351	2.283	11.0	21.4
11 17	4 32.00	+37 21.6	1.461	2.403	9.2	20.0	11 17	4 28.91	+16 6.8	1.295	2.266	6.2	21.1
11 27	4 18.56	+38 1.1	1.449	2.410	6.9	19.9	11 27	4 18.25	+15 29.6	1.264	2.248	2.6	20.8
12 7	4 4.84	+38 15.5	1.464	2.417	7.6	20.0	12 7	4 7.24	+14 56.8	1.261	2.230	6.0	21.0
12 17	3 52.70	+38 7.4	1.505	2.423	10.7	20.2	12 17	3 57.40	+14 33.0	1.283	2.212	11.1	21.3
12 27	3 43.64	+37 44.3	1.571	2.430	14.1	20.4	12 27	3 50.06	+14 21.9	1.329	2.194	15.7	21.5
1 6	3 38.43	+37 14.9	1.657	2.436	17.2	20.6	1 6	3 46.00	+14 25.2	1.395	2.176	19.7	21.7
336108	Luberon		11 28.2 131°88	0°4/28.3	18		447150	2005 GE ₉₁		11 28.2 177°03	3°3/26.5	18	
10 28	4 46.87	+22 59.6	1.775	2.627	13.6	21.7	10 28	4 41.29	+14 20.0	2.054	2.911	11.8	21.7
11 7	4 39.26	+22 54.0	1.717	2.640	9.7	21.5	11 7	4 35.04	+13 17.8	1.988	2.912	8.5	21.5
11 17	4 29.37	+22 42.1	1.683	2.652	5.3	21.3	11 17	4 27.01	+12 15.3	1.948	2.913	5.1	21.3
11 27	4 18.26	+22 24.1	1.678	2.664	0.7	21.0	11 27	4 18.02	+11 16.5	1.937	2.914	3.4	21.2
12 7	4 7.23	+22 2.3	1.702	2.676	4.1	21.3	12 7	4 9.05	+10 25.8	1.956	2.914	5.5	21.3
12 17	3 57.50	+21 40.0	1.755	2.686	8.4	21.5	12 17	4 1.02	+9 46.5	2.003	2.914	8.8	21.5
12 27	3 50.06	+21 21.0	1.834	2.696	12.2	21.8	12 27	3 54.75	+9 21.2	2.077	2.914	12.0	21.7
1 6	3 45.43	+21 8.6	1.935	2.706	15.3	22.0	1 6	3 50.71	+9 10.1	2.171	2.913	14.8	21.9
409198	2003 US ₃₉₉		11 28.2 316°22	9°0/23.1	18		24956	Qiannan		11 28.2 131°02	1°4/27.4	18	
10 28	4 43.18	+13 2.1	1.012	1.900	18.5	20.0	10 28	4 39.38	+17 33.9	2.602	3.454	9.8	19.0
11 7	4 37.68	+9 45.0	0.954	1.890	13.9	19.7	11 7	4 33.40	+17 7.5	2.540	3.463	6.9	18.8
11 17	4 28.89	+6 19.7	0.918	1.881	9.9	19.4	11 17	4 26.02	+16 39.8	2.504	3.473	3.8	18.7
11 27	4 18.22	+3 5.3	0.908	1.872	9.4	19.4	11 27	4 17.92	+16 12.5	2.498	3.482	1.4	18.5
12 7	4 7.52	+0 21.3	0.923	1.863	12.9	19.5	12 7	4 9.85	+15 47.7	2.523	3.491	3.5	18.7
12 17	3 58.56	-1 38.8	0.961	1.855	17.7	19.8	12 17	4 2.55	+15 27.6	2.578	3.500	6.6	18.9
12 27	3 52.72	-2 50.7	1.017	1.847	22.1	20.0	12 27	3 56.65	+15 13.9	2.661	3.508	9.4	19.1
1 6	3 50.62	-3 19.0	1.087	1.840	25.8	20.3	1 6	3 52.56	+15 7.7	2.767	3.516	11.7	19.3
395632	2011 VY ₁₇		11 28.2 84°63	0°2/28.3	18		353043	2009 CG ₅₉		11 28.2 288°11	1°8/27.6	18	
10 28	4 43.93	+21 47.0	1.820	2.677	13.1	21.1	10 28	4 42.08	+17 33.9	1.730	2.594	13.3	21.4
11 7	4 37.17	+21 54.9	1.762	2.687	9.3	20.9	11 7	4 36.16	+17 15.7	1.648	2.578	9.6	21.2
11 17	4 28.25	+21 58.3	1.728	2.698	5.1	20.7	11 17	4 27.89	+16 55.7	1.591	2.561	5.3	20.9
11 27	4 18.14	+21 57.3	1.722	2.709	0.6	20.4	11 27	4 18.14	+16 35.9	1.560	2.545	1.8	20.6
12 7	4 8.05	+21 53.3	1.746	2.719	3.9	20.6	12 7	4 8.12	+16 18.9	1.558	2.528	4.9	20.8
12 17	3 59.12	+21 48.4	1.798	2.730	8.1	20.9	12 17	3 59.07	+16 7.6	1.583	2.512	9.4	21.0
12 27	3 52.31	+21 45.7	1.875	2.741	11.8	21.2	12 27	3 52.08	+16 4.8	1.633	2.495	13.5	21.2
1 6	3 48.16	+21 47.6	1.975	2.751	14.9	21.4	1 6	3 47.85	+16 12.0	1.705	2.479	17.0	21.4
435497	2008 GP ₈₅		11 28.2 189°55	3°7/26.9	18		42943	1999 TH ₉₂		11 28.2 113°89	1°5/27.7	18	
10 28	4 44.42	+13 15.0	1.726	2.585	13.6	22.3	10 28	4 47.95	+18 12.1	1.654	2.511	14.2	20.0
11 7	4 37.58	+12 38.3	1.660	2.585	9.8	22.1	11 7	4 39.97	+17 57.6	1.606	2.531	10.1	19.8
11 17	4 28.51	+12 3.4	1.618	2.584	6.0	21.9	11 17	4 29.72	+17 40.9	1.582	2.551	5.5	19.6
11 27	4 18.18	+11 33.8	1.605	2.583	3.7	21.7	11 27	4 18.32	+17 23.9	1.586	2.571	1.5	19.4
12 7	4 7.78	+11 12.9	1.619	2.581	6.1	21.9	12 7	4 7.11	+17 8.8	1.619	2.589	4.7	19.6
12 17	3 58.51	+11 3.5	1.662	2.578	10.0	22.1	12 17	3 57.34	+16 58.5	1.681	2.607	9.1	19.9
12 27	3 51.36	+11 7.0	1.729	2.575	13.7	22.3	12 27	3 49.95	+16 55.4	1.768	2.624	12.9	20.2
1 6	3 46.92	+11 23.4	1.818	2.572	16.8	22.5	1 6	3 45.44	+17 1.1	1.877	2.641	16.0	20.4
411062	2009 VJ ₅₃		11 28.2 32°94	0°9/27.8	18		80906	2000 DK ₅₈		11 28.2 115°88	1°4/27.7	18	
10 28	4 39.61	+21 6.8	1.941	2.802	12.2	20.3	10 28	4 45.86	+19 18.4	1.763	2.619	13.5	19.4
11 7	4 33.96	+20 26.0	1.879	2.808	8.6	20.1	11 7	4 38.41	+18 48.0	1.711	2.637	9.5	19.2
11 17	4 26.45	+19 40.0	1.842	2.814	4.7	19.9	11 17	4 28.85	+18 14.2	1.685	2.655	5.2	19.0
11 27	4 17.95	+18 51.4	1.834	2.820	0.9	19.6	11 27	4 18.23	+17 39.1	1.686	2.672	1.4	18.8
12 7	4 9.50	+18 3.8	1.854	2.826	4.0	19.9	12 7	4 7.79	+17 6.2	1.717	2.688	4.5	19.0
12 17	4 2.08	+17 21.1	1.903	2.833	8.0	20.1	12 17	3 58.66	+16 38.9	1.777	2.704	8.7	19.3
12 27	3 56.52	+16 46.9	1.978	2.840	11.5	20.4	12 27	3 51.73	+16 20.1	1.863	2.719	12.4	19.6
1 6	3 53.30	+16 23.3	2.075	2.847	14.4	20.6	1 6	3 47.49	+16 11.7	1.970	2.733	15.4	19.8
148600	2001 RE ₅₂		11 28.2 119°92	1°0/27.8	18		29858	Tlomak		11 28.2 218°75	2°2/27.3	18	
10 28	4 45.66	+20 8.9	1.729	2.586	13.6	21.0	10 28	4 4					

EPHEMERIDES

11 28.2

11 28.2

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
94222	2001 <i>BE</i> ₄₈		11 28.2 342°84	7°6/24.7	18		414611	2009 <i>UT</i> ₁₄₀		11 28.2 307°25	0°9/28.7	17	
10 28	4 37.93	+ 3 17.8	1.804	2.659	13.3	19.4	10 28	4 40.13	+25 57.9	2.194	3.043	11.5	21.1
11 7	4 32.88	+ 2 6.6	1.744	2.654	10.5	19.2	11 7	4 34.31	+25 31.2	2.119	3.040	8.3	20.9
11 17	4 25.94	+ 1 5.4	1.708	2.648	8.2	19.1	11 17	4 26.68	+24 56.0	2.070	3.037	4.7	20.7
11 27	4 17.94	+ 0 20.5	1.698	2.644	7.6	19.0	11 27	4 18.03	+24 13.3	2.048	3.034	1.1	20.4
12 7	4 9.88	- 0 4.0	1.715	2.640	9.1	19.1	12 7	4 9.36	+23 26.0	2.057	3.031	3.4	20.6
12 17	4 2.75	- 0 5.9	1.756	2.636	11.8	19.2	12 17	4 1.61	+22 37.7	2.095	3.028	7.1	20.8
12 27	3 57.41	+ 0 14.0	1.821	2.633	14.6	19.4	12 27	3 55.59	+21 52.7	2.160	3.025	10.5	21.0
1 6	3 54.39	+ 0 52.9	1.904	2.630	17.1	19.6	1 6	3 51.82	+21 14.5	2.248	3.022	13.4	21.2
397664	2008 <i>AC</i> ₃₂		11 28.2 18°11	6°9/26.5	18		280870	2005 <i>UA</i> ₅₁₂		11 28.2 204°03	0°6/28.4	18	
10 28	4 41.12	+ 4 50.0	1.518	2.379	15.0	20.5	10 28	4 45.69	+23 5.6	1.835	2.687	13.2	21.1
11 7	4 35.35	+ 4 22.0	1.465	2.383	11.5	20.3	11 7	4 38.61	+23 12.1	1.761	2.684	9.5	20.9
11 17	4 27.34	+ 4 6.4	1.436	2.387	8.3	20.2	11 17	4 29.17	+23 12.9	1.712	2.681	5.3	20.6
11 27	4 18.09	+ 4 7.5	1.431	2.392	6.9	20.1	11 27	4 18.31	+23 7.7	1.691	2.677	0.9	20.3
12 7	4 8.84	+ 4 27.7	1.453	2.398	8.6	20.2	12 7	4 7.30	+22 57.6	1.699	2.672	4.0	20.6
12 17	4 0.79	+ 5 6.8	1.501	2.404	11.8	20.4	12 17	3 57.37	+22 45.2	1.736	2.668	8.4	20.8
12 27	3 54.93	+ 6 2.7	1.571	2.411	15.1	20.6	12 27	3 49.61	+22 34.2	1.799	2.662	12.3	21.0
1 6	3 51.81	+ 7 11.7	1.661	2.418	18.0	20.9	1 6	3 44.65	+22 27.9	1.884	2.657	15.6	21.3
140498	2001 <i>TO</i> ₁₅₅		11 28.2 254°04	0°8/27.9	18		446857	2001 <i>UM</i> ₉₈		11 28.2 29°40	7°6/29.0	18	
10 28	4 41.43	+20 26.7	1.995	2.852	12.1	20.4	10 28	4 53.52	+35 31.8	1.672	2.493	15.8	20.4
11 7	4 35.37	+20 4.2	1.919	2.845	8.6	20.2	11 7	4 45.08	+37 37.1	1.611	2.499	12.6	20.2
11 17	4 27.31	+19 37.3	1.868	2.838	4.7	19.9	11 17	4 33.12	+39 29.1	1.573	2.506	9.5	20.0
11 27	4 18.09	+19 7.7	1.845	2.831	0.9	19.6	11 27	4 18.78	+40 58.3	1.563	2.514	7.7	19.9
12 7	4 8.76	+18 38.0	1.852	2.824	4.0	19.9	12 7	4 3.82	+41 59.2	1.581	2.521	8.5	20.0
12 17	4 0.36	+18 11.3	1.887	2.817	8.0	20.1	12 17	3 50.19	+42 31.9	1.627	2.530	11.1	20.2
12 27	3 53.81	+17 50.9	1.949	2.809	11.7	20.3	12 27	3 39.58	+42 42.7	1.697	2.539	14.1	20.4
1 6	3 49.68	+17 39.0	2.033	2.802	14.8	20.5	1 6	3 32.93	+42 40.2	1.788	2.548	16.8	20.6
329667	2003 <i>TN</i> ₃₉		11 28.2 235°30	0°7/27.8	17		227859	2007 <i>DW</i> ₇₆		11 28.2 326°89	6°7/26.2	18	
10 28	4 39.45	+21 11.7	2.317	3.170	10.8	20.9	10 28	4 42.18	+ 7 49.0	1.384	2.253	15.7	19.8
11 7	4 33.69	+20 35.7	2.243	3.168	7.6	20.7	11 7	4 36.41	+ 7 0.5	1.323	2.248	11.9	19.6
11 17	4 26.29	+19 54.9	2.195	3.165	4.1	20.5	11 17	4 28.06	+ 6 20.6	1.285	2.243	8.2	19.4
11 27	4 17.98	+19 11.3	2.177	3.163	0.7	20.2	11 27	4 18.20	+ 5 55.0	1.271	2.238	6.7	19.3
12 7	4 9.64	+18 27.6	2.188	3.160	3.5	20.4	12 7	4 8.22	+ 5 48.3	1.283	2.234	8.8	19.4
12 17	4 2.13	+17 47.3	2.229	3.157	7.1	20.7	12 17	3 59.50	+ 6 2.2	1.320	2.229	12.6	19.6
12 27	3 56.21	+17 13.5	2.298	3.154	10.3	20.9	12 27	3 53.19	+ 6 36.1	1.379	2.226	16.4	19.8
1 6	3 52.34	+16 48.3	2.389	3.151	13.0	21.0	1 6	3 49.94	+ 7 27.0	1.457	2.222	19.8	20.0
335481	2005 <i>WJ</i> ₁₃₈		11 28.2 342°92	0°1/28.3	18		285934	2001 <i>QZ</i> ₂₇₉		11 28.2 17°35	6°3/29.4	18	
10 28	4 42.45	+23 16.0	1.335	2.208	15.9	20.6	10 28	4 46.30	+32 26.0	1.394	2.244	16.7	19.3
11 7	4 36.86	+22 54.3	1.270	2.203	11.4	20.3	11 7	4 39.88	+33 50.2	1.359	2.250	12.9	19.1
11 17	4 28.38	+22 23.7	1.226	2.198	6.3	20.0	11 17	4 30.18	+35 0.5	1.306	2.258	9.0	18.9
11 27	4 18.21	+21 45.6	1.208	2.194	0.7	19.6	11 27	4 18.44	+35 50.5	1.298	2.266	6.4	18.7
12 7	4 7.92	+21 4.1	1.216	2.191	4.9	19.9	12 7	4 6.45	+36 17.4	1.316	2.276	7.4	18.8
12 17	3 59.06	+20 24.4	1.249	2.188	10.3	20.2	12 17	3 56.05	+36 23.3	1.360	2.286	10.8	19.0
12 27	3 52.90	+19 52.3	1.306	2.185	15.0	20.5	12 27	3 48.71	+36 14.8	1.427	2.298	14.5	19.3
1 6	3 50.10	+19 31.5	1.383	2.184	18.9	20.8	1 6	3 45.16	+35 59.5	1.513	2.310	17.7	19.5
358780	2008 <i>DF</i> ₆₃		11 28.2 164°12	1°0/28.6	18		449239	2013 <i>CW</i> ₁₆₆		11 28.2 83°59	4°8/26.5	18	
10 28	4 42.72	+24 33.6	2.082	2.931	12.0	21.6	10 28	4 41.43	+ 9 5.9	1.850	2.708	12.9	20.9
11 7	4 36.23	+24 36.3	2.011	2.932	8.6	21.3	11 7	4 35.26	+ 8 32.5	1.796	2.716	9.5	20.7
11 17	4 27.76	+24 32.6	1.966	2.934	4.9	21.1	11 17	4 27.18	+ 8 5.2	1.766	2.725	6.3	20.5
11 27	4 18.15	+24 22.3	1.950	2.935	1.2	20.9	11 27	4 18.10	+ 7 47.5	1.764	2.733	4.8	20.4
12 7	4 8.46	+24 6.9	1.963	2.936	3.6	21.0	12 7	4 9.05	+ 7 42.2	1.789	2.741	6.6	20.6
12 17	3 59.76	+23 48.9	2.005	2.937	7.4	21.3	12 17	4 1.06	+ 7 50.5	1.843	2.750	9.7	20.8
12 27	3 52.93	+23 31.7	2.074	2.938	10.9	21.5	12 27	3 54.94	+ 8 12.3	1.921	2.758	12.9	21.0
1 6	3 48.53	+23 18.5	2.166	2.939	13.8	21.7	1 6	3 51.20	+ 8 46.3	2.020	2.766	15.6	21.2
207408	2006 <i>BY</i> ₁₇₂		11 28.2 114°58	1°6/28.8	18		181954	1999 <i>TT</i> ₂₆₃		11 28.2 198°34	1°1/27.8	18	
10 28	4 50.79	+26 49.6	1.520	2.369	15.6	20.9	10 28	4 45.51	+20 8.2	1.710	2.568	13.7	21.1
11 7	4 42.22	+26 34.4	1.471	2.391	11.3	20.7	11 7	4 38.50	+19 40.7	1.639	2.565	9.8	20.9
11 17	4 31.00	+26 7.3	1.446	2.412	6.4	20.5	11 17	4 29.10	+19 8.2	1.592	2.563	5.4	20.6
11 27	4 18.48	+25 28.7	1.447	2.432	1.9	20.3	11 27	4 18.32	+18 32.7	1.573	2.559	1.2	20.3
12 7	4 6.26	+24 42.2	1.478	2.452	4.5	20.5	12 7	4 7.46	+17 57.5	1.584	2.555	4.6	20.5
12 17	3 55.79	+23 53.4	1.537	2.470	9.2	20.8	12 17	3 57.78	+17 26.7	1.622	2.551	9.2	20.8
12 27	3 48.12	+23 8.7	1.621	2.488	13.3	21.1	12 27	3 50.36	+17 3.9	1.686	2.546	13.2	21.0
1 6	3 43.74	+22 32.9	1.727	2.504	16.6	21.4	1 6	3 45.79	+16 51.8	1.772	2.540	16.6	21.3
497020	2003 <i>HY</i>		11 28.2 253°85	13°4/28.4	17		520778	2014 <i>SB</i> ₃₅₅		11 28.2 103°97	1°3/28.9	18	
10 28	5 2.79	+40 45.6	1.165	1.983	21.4	20.9	10 28	4 41.14	+26 40.8	2.410	3.252	10.8	21.8
11 7	4 54.04	+43 44.9	1.099	1.976	18.0	20.6	11 7	4 34.83	+26 31.5	2.348	3.264	7.8	21.6
11 17	4 39.24	+46 27.2	1.053	1.968	15.0	20.4	11 17	4 26.88	+26 14.6	2.311	3.276	4.5	21.4
11 27	4 19.52	+48 32.1	1.031	1.960	13.4	20.3	11 27	4 18.08	+25 50.6	2.304	3.288	1.5	21.2
12 7	3 57.82	+49 44.9	1.033	1.952	14.3	20.3	12 7	4 9.33	+25 21.1	2.327	3.300	3.2	21.3
12 17	3 38.01	+50 4.6	1.058	1.944	17.2	20.5	12 17	4 1.49	+24 49.2	2.380	3.311	6.5	21.6
12 27	3 23.43	+49 44.3	1.102	1.935	20.6	20.7	12 27	3 55.30	+24 18.1	2.460	3.323	9.5	21.8
1 6	3 15.62	+49 3.2	1.163	1.927	23.8	20.9	1 6	3 51.21	+23 51.1	2.565	3.334	12.0	22.0
56324	1999 <i>VY</i> ₁₇₅		11 28.2 79°54	0°0/28.1	18		185061	2006 <i>RB</i> ₂₈					

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
69246	1981 <i>EZ</i> ₄		11 28.2 178°31'	4.8/30.3	18		166507	2002 <i>QV</i> ₃₃		11 28.2 92°50'	1.1/28.6	18	
10 28	4 46.31	+35 22.0	1.897	2.721	14.0	19.8	10 28	4 44.14	+24 43.0	1.801	2.654	13.4	20.0
11 7	4 39.15	+35 31.4	1.825	2.722	10.9	19.6	11 7	4 37.43	+24 45.7	1.740	2.662	9.6	19.8
11 17	4 29.48	+35 24.3	1.777	2.722	7.5	19.4	11 17	4 28.48	+24 40.9	1.703	2.671	5.4	19.5
11 27	4 18.38	+34 58.7	1.755	2.723	5.0	19.2	11 27	4 18.30	+24 28.7	1.694	2.679	1.4	19.3
12 7	4 7.23	+34 15.5	1.761	2.723	5.6	19.3	12 7	4 8.12	+24 10.7	1.714	2.688	4.0	19.5
12 17	3 57.38	+33 19.4	1.796	2.723	8.6	19.4	12 17	3 59.14	+23 50.0	1.762	2.696	8.2	19.8
12 27	3 49.93	+32 17.3	1.857	2.722	11.9	19.6	12 27	3 52.35	+23 30.7	1.836	2.704	11.9	20.0
1 6	3 45.48	+31 16.3	1.941	2.721	14.9	19.8	1 6	3 48.29	+23 16.2	1.932	2.712	15.0	20.2
72512	2001 <i>DR</i> ₇₅		11 28.2 39°55'	4.6/26.8	18		335399	2005 <i>TM</i> ₂₁		11 28.2 54°06'	0.2/28.3	18	
10 28	4 42.14	+10 52.1	1.575	2.441	14.3	19.3	10 28	4 46.38	+22 5.6	1.249	2.121	16.9	20.6
11 7	4 36.08	+10 20.6	1.518	2.445	10.5	19.1	11 7	4 39.44	+22 5.6	1.209	2.141	12.0	20.4
11 17	4 27.76	+9 54.4	1.486	2.449	6.7	18.9	11 17	4 29.65	+21 59.2	1.190	2.162	6.5	20.1
11 27	4 18.20	+9 37.4	1.479	2.454	4.6	18.8	11 27	4 18.42	+21 47.0	1.197	2.184	0.8	19.8
12 7	4 8.63	+9 32.5	1.500	2.458	6.8	18.9	12 7	4 7.45	+21 31.7	1.230	2.205	4.9	20.2
12 17	4 0.26	+9 41.3	1.547	2.463	10.6	19.2	12 17	3 58.29	+21 17.1	1.289	2.227	10.1	20.5
12 27	3 54.08	+10 4.2	1.618	2.469	14.2	19.4	12 27	3 52.07	+21 7.5	1.372	2.249	14.5	20.9
1 6	3 50.65	+10 39.7	1.710	2.474	17.3	19.6	1 6	3 49.26	+21 5.7	1.474	2.272	18.1	21.2
97617	2000 <i>EW</i> ₁₀₄		11 28.2 157°46'	2.2/29.2	18		183435	2003 <i>AB</i> ₆₅		11 28.2 239°98'	1.7/28.8	17	
10 28	4 42.25	+28 52.9	2.872	3.700	9.7	19.5	10 28	4 44.19	+25 57.8	2.260	3.101	11.5	20.4
11 7	4 35.55	+29 16.0	2.799	3.706	7.1	19.3	11 7	4 37.37	+26 19.1	2.174	3.089	8.4	20.2
11 17	4 27.30	+29 32.1	2.753	3.711	4.4	19.1	11 17	4 28.49	+26 34.1	2.113	3.077	4.9	20.0
11 27	4 18.16	+29 40.1	2.737	3.716	2.3	19.0	11 27	4 18.32	+26 41.6	2.081	3.065	1.9	19.8
12 7	4 8.94	+29 40.2	2.752	3.720	3.3	19.1	12 7	4 7.89	+26 41.8	2.080	3.052	3.7	19.9
12 17	4 0.44	+29 33.9	2.798	3.724	5.9	19.3	12 17	3 58.26	+26 36.3	2.108	3.038	7.3	20.1
12 27	3 53.37	+29 23.9	2.872	3.728	8.5	19.4	12 27	3 50.40	+26 28.2	2.164	3.025	10.7	20.3
1 6	3 48.22	+29 13.0	2.971	3.732	10.7	19.6	1 6	3 44.94	+26 21.0	2.243	3.011	13.6	20.4
519883	2013 <i>OX</i> ₁₀		11 28.2 149°82'	3.6/25.9	18		270820	2002 <i>SF</i> ₄		11 28.2 147°70'	6.3/3.5	18	
10 28	4 38.27	+8 50.8	3.046	3.889	8.8	23.0	10 28	4 47.99	+49 43.3	3.384	4.107	10.5	21.4
11 7	4 32.45	+8 5.5	2.987	3.899	6.5	22.8	11 7	4 39.60	+49 55.1	3.313	4.119	9.0	21.3
11 17	4 25.49	+7 23.7	2.956	3.909	4.4	22.7	11 17	4 29.44	+49 49.7	3.266	4.130	7.5	21.2
11 27	4 17.96	+6 48.2	2.955	3.918	3.6	22.7	11 27	4 18.40	+49 25.1	3.245	4.140	6.5	21.1
12 7	4 10.46	+6 21.0	2.984	3.927	4.8	22.8	12 7	4 7.48	+48 41.5	3.253	4.151	6.3	21.1
12 17	4 3.59	+6 3.8	3.043	3.935	6.9	22.9	12 17	3 57.66	+47 41.7	3.290	4.160	7.1	21.2
12 27	3 57.87	+5 57.2	3.130	3.942	9.1	23.1	12 27	3 49.70	+46 30.5	3.355	4.169	8.5	21.3
1 6	3 53.66	+6 0.9	3.240	3.949	10.9	23.2	1 6	3 44.06	+45 13.5	3.444	4.177	9.9	21.4
356036	2009 <i>BV</i> ₁₈₅		11 28.2 337°58'	0.5/28.3	18		506134	2016 <i>CL</i> ₂₆₅		11 28.2 318°09'	19°8/4.3	17	
10 28	4 44.47	+20 15.6	1.411	2.280	15.4	20.0	10 28	4 59.32	+56 8.0	1.075	1.844	25.8	21.3
11 7	4 38.41	+20 59.9	1.339	2.270	11.1	19.7	11 7	4 52.83	+58 21.7	1.018	1.836	23.6	21.1
11 17	4 29.37	+21 43.8	1.290	2.262	6.2	19.4	11 17	4 38.97	+59 56.3	0.975	1.828	21.6	20.9
11 27	4 18.41	+22 25.0	1.267	2.254	0.9	19.0	11 27	4 19.55	+60 32.4	0.947	1.820	20.1	20.8
12 7	4 7.06	+23 2.4	1.271	2.246	4.8	19.3	12 7	3 58.95	+59 59.2	0.936	1.813	19.8	20.7
12 17	3 56.92	+23 36.0	1.302	2.240	10.1	19.6	12 17	3 42.16	+58 21.3	0.943	1.807	20.8	20.8
12 27	3 49.40	+24 7.9	1.357	2.234	14.7	19.8	12 27	3 32.53	+55 58.1	0.966	1.801	22.8	20.9
1 6	3 45.31	+24 40.7	1.432	2.229	18.5	20.1	1 6	3 30.66	+53 13.1	1.005	1.795	25.2	21.0
115429	2003 <i>SB</i> ₃₁₅		11 28.2 49°26'	7.8/26.4	18		484529	2008 <i>EK</i> ₁₆₅		11 28.2 332°77'	0.5/28.1	17	
10 28	4 41.37	-1 11.7	1.899	2.734	13.6	19.0	10 28	4 40.65	+19 10.1	1.344	2.222	15.5	20.5
11 7	4 35.03	-1 34.0	1.862	2.755	10.9	18.8	11 7	4 35.85	+19 29.5	1.263	2.199	11.2	20.2
11 17	4 26.98	-1 40.6	1.849	2.777	8.6	18.7	11 17	4 28.07	+19 48.6	1.205	2.178	6.2	19.9
11 27	4 18.12	-1 28.3	1.862	2.799	7.8	18.7	11 27	4 18.29	+20 7.2	1.171	2.157	0.8	19.4
12 7	4 9.42	-0 56.1	1.902	2.821	8.8	18.8	12 7	4 7.98	+20 25.7	1.162	2.138	5.1	19.7
12 17	4 1.81	-0 5.4	1.969	2.843	10.9	19.0	12 17	3 58.76	+20 45.6	1.180	2.119	10.6	20.0
12 27	3 56.02	+1 0.9	2.060	2.866	13.3	19.2	12 27	3 52.10	+21 9.1	1.220	2.102	15.6	20.2
1 6	3 52.47	+2 18.7	2.172	2.889	15.4	19.4	1 6	3 48.90	+21 38.1	1.279	2.087	19.8	20.4
66724	1999 <i>TN</i> ₁₀₇		11 28.2 111°61'	2.2/29.2	18		140215	2001 <i>SY</i> ₂₃₄		11 28.2 45°20'	0.5/28.4	18	
10 28	4 45.19	+28 49.7	1.798	2.643	13.8	19.4	10 28	4 42.70	+23 1.0	1.690	2.551	13.7	20.0
11 7	4 38.17	+28 37.6	1.737	2.653	10.1	19.2	11 7	4 36.48	+23 1.5	1.633	2.560	9.8	19.7
11 17	4 28.86	+28 13.5	1.700	2.663	6.0	19.0	11 17	4 27.99	+22 55.9	1.600	2.570	5.4	19.5
11 27	4 18.33	+27 37.4	1.690	2.673	2.5	18.7	11 27	4 18.26	+22 44.7	1.594	2.580	0.8	19.2
12 7	4 7.89	+26 52.1	1.710	2.682	4.2	18.9	12 7	4 8.55	+22 29.8	1.616	2.591	4.1	19.5
12 17	3 58.76	+26 2.3	1.758	2.691	8.2	19.1	12 17	4 0.09	+22 14.1	1.666	2.602	8.4	19.8
12 27	3 51.93	+25 13.8	1.832	2.700	11.9	19.4	12 27	3 53.84	+22 1.2	1.742	2.613	12.3	20.0
1 6	3 47.93	+24 31.4	1.928	2.709	15.0	19.6	1 6	3 50.36	+21 54.2	1.839	2.624	15.5	20.3
344945	2004 <i>VQ</i> ₂₁		11 28.2 0°56'	0.8/28.5	18		269845	2000 <i>CL</i> ₁₄₁		11 28.2 191°12'	3.2/29.9	17	
10 28	4 38.97	+22 23.8	2.061	2.920	11.7	19.4	10 28	4 41.97	+32 43.8	2.501	3.325	11.0	20.9
11 7	4 33.68	+22 55.3	1.992	2.918	8.4	19.2	11 7	4 35.57	+32 46.2	2.424	3.325	8.4	20.7
11 17	4 26.45	+23 23.7	1.947	2.917	4.7	19.0	11 17	4 27.39	+32 37.5	2.372	3.324	5.5	20.5
11 27	4 18.08	+23 48.1	1.931	2.917	1.0	18.7	11 27	4 18.20	+32 16.6	2.349	3.323	3.3	20.4
12 7	4 9.56	+24 8.5	1.944	2.918	3.5	18.9	12 7	4 8.95	+31 44.9	2.356	3.321	4.0	20.4
12 17	4 1.89	+24 25.7	1.985	2.920	7.3	19.1	12 17	4 0.58	+31 5.0	2.393	3.320	6.7	20.6
12 27	3 55.97	+24 41.6	2.052	2.922	10.7	19.4	12 27	3 53.91	+30 21.4	2.457	3.318	9.5	20.8
1 6	3 52.37	+24 58.3	2.142	2.926	13.6	19.6	1 6	3 49.46	+29 38.4	2.545	3.316	12.0	21.0
325880	2010 <i>TT</i> ₁₇₂		11 28.2 240°43'	0.3/28.1	18		150444	2000 <i>GH</i> ₁₄₆		11 28.2 153°56'			

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
450235	2002 VW ₁₄₀		11 28.2	6°86	3°8/27.5	18	261565	2005 WP ₁₇₂		11 28.2	106°02	0°7/28.0	18
10 28	4 43.87	+10 15.6	1.741	2.599	13.5	20.6	10 28	4 43.09	+18 16.3	2.099	2.952	11.7	20.7
11 7	4 37.26	+10 26.4	1.677	2.599	9.9	20.3	11 7	4 36.47	+18 32.9	2.032	2.957	8.4	20.5
11 17	4 28.44	+10 44.3	1.636	2.600	6.2	20.1	11 17	4 27.94	+18 48.7	1.991	2.961	4.6	20.2
11 27	4 18.32	+11 10.8	1.623	2.600	3.8	20.0	11 27	4 18.31	+19 4.0	1.979	2.965	0.8	20.0
12 7	4 8.09	+11 46.3	1.638	2.601	5.8	20.1	12 7	4 8.59	+19 19.2	1.997	2.969	3.7	20.2
12 17	3 58.90	+12 30.5	1.682	2.602	9.6	20.3	12 17	3 59.78	+19 35.2	2.044	2.973	7.6	20.5
12 27	3 51.77	+13 22.8	1.751	2.603	13.2	20.6	12 27	3 52.77	+19 53.6	2.118	2.977	11.0	20.7
1 6	3 47.31	+14 21.8	1.841	2.604	16.3	20.8	1 6	3 48.09	+20 15.5	2.216	2.981	13.8	20.9
25299	1998 WX ₂₂		11 28.2	94°63	0°6/27.9	18	105405	2000 QM ₁₄₈		11 28.2	166°59	1°7/28.9	18
10 28	4 44.11	+20 53.0	1.925	2.779	12.6	19.0	10 28	4 49.04	+27 1.0	1.825	2.666	13.8	20.9
11 7	4 37.08	+20 30.7	1.876	2.801	8.9	18.8	11 7	4 40.95	+26 52.9	1.757	2.673	10.0	20.7
11 17	4 28.15	+20 4.1	1.852	2.822	4.8	18.6	11 17	4 30.44	+26 34.2	1.714	2.678	5.8	20.5
11 27	4 18.28	+19 34.8	1.856	2.842	0.7	18.3	11 27	4 18.58	+26 4.6	1.699	2.683	1.9	20.2
12 7	4 8.57	+19 5.7	1.890	2.862	3.9	18.6	12 7	4 6.73	+25 26.5	1.714	2.687	4.2	20.4
12 17	4 0.07	+18 39.8	1.953	2.882	7.8	18.9	12 17	3 56.19	+24 44.2	1.758	2.689	8.4	20.7
12 27	3 53.57	+18 20.1	2.043	2.902	11.3	19.2	12 27	3 48.03	+24 3.3	1.829	2.691	12.2	20.9
1 6	3 49.54	+18 8.6	2.155	2.921	14.1	19.4	1 6	3 42.81	+23 28.4	1.923	2.692	15.5	21.1
142654	2002 TP ₂₀₀		11 28.2	317°99	1°2/27.8	18	380880	2006 DX ₁₇		11 28.2	159°75	5°0/1.2	17
10 28	4 43.27	+21 25.3	1.368	2.239	15.7	19.3	10 28	4 44.69	+40 57.8	3.026	3.806	10.4	22.2
11 7	4 37.36	+20 38.2	1.301	2.234	11.2	19.0	11 7	4 37.40	+41 22.0	2.953	3.813	8.4	22.0
11 17	4 28.67	+19 42.8	1.257	2.229	6.1	18.7	11 17	4 28.36	+41 32.6	2.904	3.819	6.5	21.9
11 27	4 18.35	+18 42.4	1.238	2.224	1.3	18.4	11 27	4 18.35	+41 27.5	2.884	3.824	5.2	21.8
12 7	4 7.95	+17 42.7	1.247	2.220	5.3	18.6	12 7	4 8.29	+41 6.9	2.893	3.829	5.3	21.9
12 17	3 58.97	+16 50.0	1.282	2.216	10.6	18.9	12 17	3 59.09	+40 33.0	2.932	3.834	6.7	22.0
12 27	3 52.62	+16 9.8	1.340	2.212	15.2	19.2	12 27	3 51.56	+39 49.7	2.998	3.838	8.7	22.1
1 6	3 49.53	+15 45.1	1.418	2.208	19.0	19.4	1 6	3 46.18	+39 2.1	3.089	3.841	10.5	22.2
98481	2000 UX ₁₀₀		11 28.2	336°12	5°4/29.1	18	191392	2003 SC ₄₅		11 28.2	71°67	2°0/27.3	18
10 28	4 47.33	+30 26.1	1.421	2.273	16.4	18.2	10 28	4 39.92	+16 34.5	2.135	2.994	11.4	20.0
11 7	4 40.79	+31 44.1	1.350	2.265	12.5	18.0	11 7	4 34.06	+16 5.2	2.078	3.005	8.1	19.8
11 17	4 30.85	+32 52.1	1.301	2.257	8.4	17.7	11 17	4 26.54	+15 35.2	2.047	3.016	4.5	19.6
11 27	4 18.63	+33 43.6	1.278	2.251	5.5	17.5	11 27	4 18.15	+15 6.9	2.045	3.028	2.0	19.5
12 7	4 5.87	+34 15.0	1.281	2.244	6.9	17.6	12 7	4 9.81	+14 43.0	2.072	3.039	4.3	19.7
12 17	3 54.44	+34 27.3	1.310	2.239	10.9	17.8	12 17	4 2.41	+14 25.6	2.128	3.050	7.7	19.9
12 27	3 46.01	+34 26.0	1.362	2.234	15.0	18.0	12 27	3 56.68	+14 16.8	2.210	3.062	10.8	20.1
1 6	3 41.46	+34 18.7	1.434	2.230	18.6	18.3	1 6	3 53.06	+14 17.2	2.314	3.073	13.5	20.3
73920	1997 HE ₁₂		11 28.2	185°96	2°6/28.9	18	272477	2005 UY ₉₂		11 28.2	115°34	1°4/28.8	18
10 28	4 46.71	+27 23.5	2.037	2.875	12.6	19.6	10 28	4 46.86	+26 16.1	1.709	2.559	14.2	21.1
11 7	4 39.31	+28 0.6	1.963	2.875	9.3	19.4	11 7	4 39.39	+26 4.2	1.653	2.574	10.2	20.9
11 17	4 29.60	+28 30.2	1.914	2.875	5.7	19.2	11 17	4 29.55	+25 42.3	1.621	2.588	5.8	20.7
11 27	4 18.48	+28 49.9	1.894	2.874	2.7	19.0	11 27	4 18.48	+25 10.7	1.617	2.602	1.6	20.4
12 7	4 7.15	+28 59.2	1.904	2.873	4.3	19.1	12 7	4 7.55	+24 32.3	1.641	2.615	4.1	20.6
12 17	3 56.83	+28 59.7	1.943	2.872	7.9	19.3	12 17	3 58.02	+23 51.6	1.695	2.628	8.5	20.9
12 27	3 48.59	+28 55.2	2.009	2.870	11.4	19.5	12 27	3 50.89	+23 13.8	1.774	2.641	12.3	21.2
1 6	3 43.06	+28 49.7	2.098	2.868	14.3	19.7	1 6	3 46.68	+22 43.1	1.875	2.653	15.5	21.4
316586	2011 UV ₁₄₆		11 28.2	183°10	0°0/28.1	18	397172	2005 YS ₁₂₁		11 28.2	353°99	0°4/28.0	16
10 28	4 42.28	+23 36.7	2.201	3.049	11.4	20.6	10 28	4 37.00	+20 19.4	2.553	3.408	9.8	21.2
11 7	4 35.79	+22 57.7	2.128	3.050	8.2	20.4	11 7	4 31.93	+20 12.3	2.480	3.405	7.0	21.1
11 17	4 27.50	+22 11.4	2.081	3.050	4.5	20.2	11 17	4 25.40	+20 2.6	2.433	3.403	3.8	20.8
11 27	4 18.23	+21 19.7	2.063	3.049	0.5	19.9	11 27	4 18.03	+19 51.2	2.415	3.401	0.6	20.6
12 7	4 8.97	+20 25.7	2.076	3.049	3.5	20.1	12 7	4 10.60	+19 39.6	2.427	3.400	3.1	20.8
12 17	4 0.67	+19 33.7	2.118	3.048	7.3	20.4	12 17	4 3.85	+19 29.5	2.469	3.399	6.4	21.0
12 27	3 54.13	+18 47.5	2.188	3.046	10.7	20.6	12 27	3 58.47	+19 22.9	2.537	3.398	9.3	21.2
1 6	3 49.84	+18 10.3	2.282	3.044	13.5	20.8	1 6	3 54.92	+19 21.3	2.630	3.397	11.8	21.4
334117	2001 QK ₂₉₅		11 28.2	41°17	17°2/4.2	18	400351	2007 VK ₉₁		11 28.2	321°16	1°5/29.1	18
10 28	5 3.20	+54 39.8	1.285	2.038	23.1	19.6	10 28	4 43.98	+30 0.0	1.695	2.543	14.3	20.0
11 7	4 54.50	+57 22.2	1.252	2.057	20.7	19.5	11 7	4 37.47	+28 47.2	1.619	2.538	10.5	19.7
11 17	4 39.33	+59 26.5	1.236	2.076	18.7	19.4	11 17	4 28.57	+27 16.3	1.567	2.533	6.1	19.5
11 27	4 19.61	+60 37.3	1.239	2.096	17.4	19.4	11 27	4 18.39	+25 30.2	1.543	2.528	1.8	19.2
12 7	3 59.17	+60 48.5	1.261	2.117	17.2	19.4	12 7	4 8.28	+23 35.5	1.549	2.524	4.2	19.3
12 17	3 42.17	+60 6.5	1.303	2.138	17.9	19.6	12 17	3 59.54	+21 40.9	1.584	2.520	8.8	19.6
12 27	3 31.40	+58 47.7	1.363	2.160	19.3	19.7	12 27	3 53.17	+19 55.6	1.646	2.516	13.0	19.8
1 6	3 27.52	+57 10.4	1.439	2.182	20.9	19.9	1 6	3 49.71	+18 25.7	1.730	2.512	16.5	20.1
80623	2000 AE ₁₈₄		11 28.2	36°39	3°1/27.2	18	52961	1998 TH ₉		11 28.2	35°74	0°9/27.9	18
10 28	4 42.76	+18 2.8	1.146	2.029	17.2	18.8	10 28	4 43.60	+21 0.7	1.181	2.060	17.1	18.6
11 7	4 37.02	+17 1.4	1.101	2.040	12.2	18.6	11 7	4 37.69	+20 36.2	1.134	2.071	12.1	18.4
11 17	4 28.42	+15 56.7	1.079	2.051	6.8	18.3	11 17	4 28.84	+20 5.7	1.109	2.082	6.6	18.1
11 27	4 18.33	+14 54.4	1.080	2.064	3.1	18.2	11 27	4 18.43	+19 31.7	1.109	2.095	1.0	17.8
12 7	4 8.47	+14 1.3	1.108	2.077	6.6	18.4	12 7	4 8.17	+18 58.6	1.134	2.108	5.4	18.1
12 17	4 0.34	+13 22.9	1.159	2.091	11.7	18.7	12 17	3 59.64	+18 31.3	1.184	2.122	10.7	18.5
12 27	3 55.09	+13 2.4	1.233	2.106	16.2	19.0	12 27	3 54.03	+18 14.2	1.256	2.136	15.4	18.8
1 6	3 53.19	+13 0.0	1.325	2.121	19.8	19.3	1 6	3 51.87	+18 9.2	1.348	2.151	19.2	19.1
229837	2009 RL ₁₀		11 28.2	61°98	0°5/28.0	16	101958	1999 RS ₃₇		11 28.2	38°14	2°9/29.7	18
10 28	4 41.86	+20 58.2											

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11 28.2

11 28.3

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
272090	2005 <i>GE</i> ₁		11 28.2 269°50	0°1/28.2 18			121864	2000 <i>CK</i> ₇₆		11 28.2 23°07	5°3/26.2 18		
10 28	4 41.08	+20 36.6	2.583	3.430	10.0	21.3	10 28	4 39.31	+6 18.3	2.076	2.928	11.9	19.0
11 7	4 34.96	+20 47.7	2.490	3.411	7.2	21.1	11 7	4 33.71	+5 46.3	2.016	2.930	9.0	18.9
11 17	4 27.14	+20 56.5	2.423	3.392	3.9	20.8	11 17	4 26.44	+5 22.1	1.981	2.932	6.4	18.7
11 27	4 18.27	+21 3.2	2.386	3.373	0.4	20.5	11 27	4 18.23	+5 9.1	1.974	2.935	5.3	18.7
12 7	4 9.14	+21 8.3	2.380	3.353	3.1	20.7	12 7	4 10.00	+5 9.5	1.995	2.937	6.8	18.7
12 17	4 0.63	+21 12.9	2.405	3.333	6.6	20.9	12 17	4 2.63	+5 24.4	2.043	2.940	9.4	18.9
12 27	3 53.52	+21 18.9	2.457	3.314	9.7	21.1	12 27	3 56.89	+5 53.3	2.116	2.943	12.2	19.1
1 6	3 48.37	+21 28.0	2.533	3.293	12.4	21.2	1 6	3 53.24	+6 34.3	2.210	2.946	14.7	19.3
488882	2005 <i>SD</i> ₁₈₄		11 28.2 18°27	0°2/28.3 16			214644	2006 <i>SM</i> ₆₀		11 28.2 33°72	1°8/27.8 18		
10 28	4 41.39	+23 19.2	1.053	1.939	18.1	21.1	10 28	4 42.69	+16 43.7	1.683	2.548	13.6	20.0
11 7	4 36.45	+23 0.4	1.007	1.946	13.0	20.8	11 7	4 36.51	+16 43.0	1.623	2.552	9.7	19.8
11 17	4 28.30	+22 31.9	0.980	1.954	7.1	20.5	11 17	4 28.10	+16 42.5	1.587	2.557	5.4	19.6
11 27	4 18.39	+21 56.0	0.977	1.963	0.9	20.2	11 27	4 18.42	+16 43.5	1.578	2.562	1.8	19.4
12 7	4 8.58	+21 17.3	0.998	1.974	5.4	20.5	12 7	4 8.69	+16 47.5	1.597	2.568	4.7	19.6
12 17	4 0.61	+20 41.8	1.043	1.986	11.1	20.9	12 17	4 0.11	+16 56.2	1.644	2.574	9.0	19.8
12 27	3 55.76	+20 15.4	1.109	2.000	16.1	21.2	12 27	3 53.66	+17 11.2	1.716	2.580	12.8	20.1
1 6	3 54.57	+20 1.2	1.194	2.014	20.1	21.5	1 6	3 49.91	+17 33.3	1.809	2.586	16.0	20.3
61507	2000 <i>QS</i> ₅₄		11 28.2 61°34	5°0/26.9 18			275285	2010 <i>CF</i> ₄₉		11 28.2 279°88	1°7/27.6 18		
10 28	4 43.86	+10 28.5	1.443	2.310	15.3	18.7	10 28	4 40.01	+16 27.6	2.269	3.125	10.9	20.6
11 7	4 37.35	+9 57.5	1.398	2.325	11.2	18.5	11 7	4 34.27	+16 17.1	2.188	3.114	7.8	20.4
11 17	4 28.48	+9 33.1	1.377	2.340	7.1	18.3	11 17	4 26.80	+16 6.2	2.134	3.103	4.4	20.2
11 27	4 18.40	+9 19.3	1.381	2.356	5.0	18.2	11 27	4 18.28	+15 56.7	2.108	3.092	1.7	20.0
12 7	4 8.48	+9 18.7	1.413	2.371	7.1	18.3	12 7	4 9.61	+15 50.0	2.112	3.081	4.0	20.1
12 17	3 59.96	+9 32.6	1.470	2.387	10.9	18.6	12 17	4 1.68	+15 48.1	2.145	3.070	7.5	20.3
12 27	3 53.84	+10 0.7	1.551	2.403	14.6	18.9	12 27	3 55.30	+15 52.4	2.205	3.059	10.8	20.5
1 6	3 50.61	+10 40.9	1.652	2.419	17.7	19.1	1 6	3 51.01	+16 4.0	2.288	3.048	13.6	20.7
20697	1999 <i>VK</i> ₁₁₅		11 28.2 128°61	2°7/29.7 18			239506	2007 <i>VD</i> ₂₀₄		11 28.2 106°03	2°7/27.2 18		
10 28	4 42.54	+31 20.9	2.277	3.109	11.7	19.3	10 28	4 43.28	+15 9.2	1.946	2.803	12.4	21.5
11 7	4 36.04	+31 7.5	2.207	3.114	8.7	19.1	11 7	4 36.51	+14 34.7	1.895	2.820	8.8	21.3
11 17	4 27.68	+30 42.2	2.163	3.120	5.5	18.9	11 17	4 27.92	+14 0.6	1.870	2.837	5.1	21.1
11 27	4 18.33	+30 5.1	2.147	3.125	2.9	18.7	11 27	4 18.40	+13 30.0	1.873	2.853	2.7	21.0
12 7	4 9.02	+29 18.3	2.161	3.130	3.9	18.8	12 7	4 9.01	+13 5.5	1.905	2.870	4.9	21.2
12 17	4 0.72	+28 25.6	2.204	3.135	6.9	19.0	12 17	4 0.72	+12 49.7	1.966	2.885	8.5	21.5
12 27	3 54.27	+27 31.9	2.275	3.140	10.0	19.2	12 27	3 54.33	+12 44.2	2.053	2.901	11.7	21.7
1 6	3 50.14	+26 41.8	2.370	3.145	12.7	19.4	1 6	3 50.29	+12 49.3	2.162	2.915	14.5	21.9
46101	2001 <i>FK</i> ₈		11 28.2 170°08	2°4/26.8 18 R			493911	2015 <i>XU</i> ₃₂₀		11 28.2 320°78	1°8/27.7 17		
10 28	4 38.97	+15 21.5	2.495	3.349	10.1	19.1	10 28	4 41.77	+15 39.9	1.933	2.793	12.3	21.4
11 7	4 33.26	+14 32.6	2.427	3.351	7.2	18.9	11 7	4 35.77	+15 47.9	1.859	2.785	8.8	21.2
11 17	4 26.10	+13 43.0	2.386	3.352	4.2	18.7	11 17	4 27.70	+15 57.4	1.809	2.779	5.0	20.9
11 27	4 18.17	+12 55.6	2.374	3.353	2.4	18.6	11 27	4 18.40	+16 9.3	1.788	2.772	1.8	20.7
12 7	4 10.24	+12 13.6	2.393	3.354	4.3	18.7	12 7	4 8.90	+16 24.6	1.795	2.765	4.4	20.9
12 17	4 3.06	+11 39.5	2.441	3.355	7.3	18.9	12 17	4 0.30	+16 44.3	1.831	2.759	8.4	21.1
12 27	3 57.30	+11 15.6	2.516	3.356	10.1	19.1	12 27	3 53.53	+17 9.2	1.894	2.753	12.0	21.3
1 6	3 53.39	+11 2.4	2.615	3.356	12.5	19.3	1 6	3 49.22	+17 40.0	1.978	2.748	15.1	21.5
88852	2001 <i>SN</i> ₂₃₀		11 28.2 70°33	1°3/27.7 18			23698	1997 <i>NA</i> ₃		11 28.2 140°88	0°4/28.4 18		
10 28	4 41.87	+18 57.8	1.846	2.707	12.7	20.0	10 28	4 40.82	+23 38.1	2.409	3.256	10.6	19.3
11 7	4 35.73	+18 35.7	1.787	2.715	9.0	19.8	11 7	4 34.69	+23 24.0	2.341	3.261	7.6	19.2
11 17	4 27.58	+18 10.9	1.752	2.722	4.9	19.6	11 17	4 26.94	+23 4.2	2.298	3.266	4.2	19.0
11 27	4 18.34	+17 45.3	1.744	2.730	1.3	19.4	11 27	4 18.30	+22 39.7	2.285	3.271	0.6	18.7
12 7	4 9.12	+17 21.6	1.766	2.737	4.3	19.6	12 7	4 9.65	+22 12.4	2.302	3.276	3.1	18.9
12 17	4 0.99	+17 2.8	1.816	2.745	8.3	19.9	12 17	4 1.85	+21 44.8	2.349	3.280	6.6	19.1
12 27	3 54.83	+16 51.4	1.892	2.753	11.9	20.1	12 27	3 55.64	+21 20.0	2.424	3.284	9.7	19.3
1 6	3 51.16	+16 49.0	1.989	2.760	15.0	20.3	1 6	3 51.47	+21 0.5	2.522	3.288	12.3	19.5
26984	Fernand-Roland		11 28.2 8°93	0°5/27.9 18			251294	2006 <i>WG</i> ₁₉₄		11 28.2 349°85	3°9/27.5 18		
10 28	4 39.49	+22 35.5	2.092	2.949	11.6	17.1	10 28	4 40.66	+11 36.9	1.366	2.242	15.4	19.5
11 7	4 33.90	+21 46.4	2.023	2.949	8.3	16.9	11 7	4 35.57	+11 44.4	1.300	2.232	11.3	19.2
11 17	4 26.54	+20 50.4	1.980	2.950	4.5	16.6	11 17	4 27.82	+11 59.4	1.256	2.224	6.9	18.9
11 27	4 18.23	+19 50.3	1.965	2.951	0.7	16.3	11 27	4 18.42	+12 24.0	1.237	2.217	3.9	18.8
12 7	4 9.93	+18 49.9	1.980	2.953	3.7	16.6	12 7	4 8.77	+12 59.1	1.244	2.212	6.5	18.9
12 17	4 2.59	+17 53.6	2.024	2.954	7.5	16.8	12 17	4 0.30	+13 44.7	1.277	2.207	11.0	19.1
12 27	3 56.99	+17 5.4	2.095	2.956	11.0	17.0	12 27	3 54.25	+14 40.0	1.333	2.204	15.3	19.4
1 6	3 53.61	+16 27.9	2.189	2.958	13.8	17.2	1 6	3 51.33	+15 43.1	1.408	2.203	19.0	19.6
523576	2018 <i>ED</i> ₇		11 28.2 268°96	0°8/28.1 18			326838	2003 <i>UY</i> ₇₆		11 28.3 65°59	0°8/28.6 18		
10 28	4 45.74	+18 59.8	1.590	2.452	14.4	21.3	10 28	4 47.42	+26 48.3	1.219	2.085	17.6	19.6
11 7	4 39.10	+19 10.2	1.510	2.438	10.4	21.0	11 7	4 40.23	+25 53.2	1.176	2.105	12.6	19.4
11 17	4 29.73	+19 19.2	1.454	2.425	5.7	20.7	11 17	4 30.13	+24 43.5	1.155	2.125	7.0	19.2
11 27	4 18.61	+19 26.8	1.425	2.411	0.9	20.3	11 27	4 18.65	+23 22.9	1.159	2.145	1.3	18.9
12 7	4 7.12	+19 33.9	1.424	2.398	4.7	20.6	12 7	4 7.59	+21 58.6	1.190	2.165	5.0	19.2
12 17	3 56.72	+19 42.4	1.451	2.384	9.7	20.8	12 17	3 58.52	+20 39.4	1.247	2.186	10.3	19.5
12 27	3 48.67	+19 54.8	1.503	2.370	14.1	21.1	12 27	3 52.52	+19 32.9	1.329	2.206	14.9	19.9
1 6	3 43.76	+20 13.3	1.575	2.356	17.9	21.3	1 6	3 50.00	+18 43.2	1.429	2.226	18.6	20.2
175045	2004 <i>FE</i> ₈₂		11 28.2 151°77	0°1/28.2 18			487321	2014 <i>QR</i> ₁₃₄		11 28.3 94°11	1°9/29.1 18		

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11 28.3

11 28.3

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
252779	2002 <i>EB</i> ₁₂₇		11 28.3 166°69	3°7/29.5	17		372791	2010 <i>RT</i> ₅₁		11 28.3 134°95	1°2/28.6	13 C	
10 28	4 49.89	+30 32.3	1.642	2.481	15.1	20.8	10 28	4 48.90	+24 30.5	1.475	2.332	15.6	22.1
11 7	4 41.99	+30 52.8	1.575	2.486	11.3	20.6	11 7	4 41.27	+24 34.0	1.416	2.341	11.3	21.9
11 17	4 31.24	+30 59.8	1.531	2.489	7.2	20.3	11 17	4 30.83	+24 28.8	1.381	2.349	6.3	21.6
11 27	4 18.81	+30 50.9	1.514	2.492	3.9	20.1	11 27	4 18.79	+24 14.5	1.371	2.357	1.5	21.3
12 7	4 6.27	+30 26.7	1.526	2.495	5.3	20.2	12 7	4 6.76	+23 53.1	1.390	2.365	4.6	21.6
12 17	3 55.20	+29 51.4	1.566	2.497	9.3	20.5	12 17	3 56.29	+23 28.6	1.437	2.372	9.5	21.9
12 27	3 46.83	+29 11.7	1.631	2.498	13.2	20.7	12 27	3 48.56	+23 6.3	1.508	2.378	13.9	22.2
1 6	3 41.83	+28 34.2	1.717	2.498	16.6	21.0	1 6	3 44.18	+22 50.5	1.600	2.384	17.5	22.4
501583	2014 <i>QS</i> ₂		11 28.3 316°38	21°8/16.6	17		353302	2010 <i>HY</i> ₁₀₈		11 28.3 241°61	3°8/27.3	18	
10 28	4 41.95	-17 29.5	1.052	1.866	23.5	20.8	10 28	4 44.48	+10 29.3	1.879	2.732	12.9	20.4
11 7	4 36.89	-20 25.3	1.020	1.857	22.3	20.7	11 7	4 37.73	+10 27.7	1.803	2.724	9.5	20.2
11 17	4 28.64	-22 39.7	1.004	1.847	21.8	20.6	11 17	4 28.81	+10 32.1	1.753	2.715	6.0	20.0
11 27	4 18.52	-23 57.0	1.004	1.839	22.3	20.6	11 27	4 18.58	+10 44.2	1.731	2.707	3.8	19.8
12 7	4 8.29	-24 9.5	1.019	1.831	23.6	20.7	12 7	4 8.14	+11 5.5	1.737	2.698	5.8	19.9
12 17	3 59.66	-23 18.8	1.049	1.823	25.4	20.8	12 17	3 58.62	+11 36.4	1.773	2.689	9.4	20.1
12 27	3 54.00	-21 33.8	1.090	1.816	27.3	20.9	12 27	3 51.02	+12 16.8	1.834	2.679	13.0	20.3
1 6	3 51.98	-19 7.9	1.141	1.809	29.1	21.0	1 6	3 45.97	+13 5.7	1.917	2.670	16.1	20.5
267263	2001 <i>QG</i> ₂₂₂		11 28.3 144°10	2°5/27.2	18		25356	1999 <i>SK</i> ₆		11 28.3 321°03	1°6/27.9	18	
10 28	4 44.51	+17 22.2	1.690	2.551	13.7	20.5	10 28	4 42.24	+16 8.8	1.888	2.748	12.5	17.1
11 7	4 37.72	+16 34.1	1.629	2.557	9.8	20.2	11 7	4 36.19	+16 22.3	1.813	2.740	9.0	16.9
11 17	4 28.72	+15 43.5	1.594	2.563	5.5	20.0	11 17	4 27.99	+16 37.3	1.762	2.732	5.0	16.6
11 27	4 18.53	+14 53.9	1.586	2.569	2.5	19.8	11 27	4 18.49	+16 54.3	1.739	2.724	1.6	16.4
12 7	4 8.39	+14 9.6	1.607	2.574	5.3	20.0	12 7	4 8.76	+17 14.0	1.745	2.716	4.4	16.6
12 17	3 59.48	+13 34.9	1.656	2.579	9.5	20.3	12 17	3 59.93	+17 37.1	1.780	2.709	8.5	16.8
12 27	3 52.77	+13 12.6	1.730	2.584	13.3	20.5	12 27	3 53.00	+18 4.8	1.840	2.702	12.2	17.0
1 6	3 48.78	+13 3.9	1.825	2.588	16.4	20.8	1 6	3 48.59	+18 37.6	1.923	2.695	15.4	17.2
401804	2014 <i>HR</i> ₁₆₂		11 28.3 139°98	2°0/27.4	18		69586	1998 <i>DE</i> ₃₆		11 28.3 219°20	2°6/29.0	18	
10 28	4 42.73	+16 10.8	2.227	3.078	11.2	21.4	10 28	4 48.25	+27 35.6	1.638	2.486	14.8	19.5
11 7	4 36.04	+15 46.9	2.166	3.089	8.0	21.2	11 7	4 40.92	+27 54.0	1.562	2.480	10.9	19.2
11 17	4 27.67	+15 22.7	2.132	3.100	4.5	21.0	11 17	4 30.75	+28 2.3	1.510	2.474	6.6	19.0
11 27	4 18.41	+15 0.0	2.127	3.109	2.0	20.8	11 27	4 18.81	+27 58.3	1.484	2.467	2.8	18.7
12 7	4 9.19	+14 41.2	2.152	3.119	4.2	21.0	12 7	4 6.60	+27 42.4	1.487	2.459	4.8	18.8
12 17	4 0.89	+14 28.3	2.207	3.127	7.6	21.2	12 17	3 55.65	+27 18.2	1.518	2.452	9.3	19.1
12 27	3 54.27	+14 23.2	2.289	3.136	10.7	21.5	12 27	3 47.27	+26 51.2	1.575	2.443	13.5	19.3
1 6	3 49.80	+14 26.5	2.393	3.144	13.3	21.7	1 6	3 42.18	+26 27.1	1.652	2.435	17.1	19.5
107048	2000 <i>YR</i> ₁₃₈		11 28.3 229°99	2°7/27.5	18		388149	2005 <i>WZ</i> ₁₉₅		11 28.3 244°28	1°9/27.7	18	
10 28	4 46.12	+15 1.6	1.594	2.455	14.4	20.1	10 28	4 44.47	+16 36.2	1.827	2.685	13.0	21.0
11 7	4 39.21	+14 51.9	1.521	2.448	10.4	19.8	11 7	4 37.84	+16 27.0	1.748	2.674	9.4	20.8
11 17	4 29.72	+14 43.6	1.472	2.441	6.0	19.5	11 17	4 28.93	+16 17.4	1.693	2.662	5.3	20.5
11 27	4 18.66	+14 38.7	1.450	2.433	2.7	19.3	11 27	4 18.60	+16 9.0	1.666	2.650	1.9	20.3
12 7	4 7.36	+14 39.3	1.457	2.425	5.6	19.5	12 7	4 8.03	+16 3.7	1.668	2.638	4.8	20.4
12 17	3 57.21	+14 47.3	1.491	2.416	10.1	19.7	12 17	3 58.41	+16 3.6	1.699	2.625	9.0	20.7
12 27	3 49.38	+15 4.5	1.549	2.407	14.3	20.0	12 27	3 50.81	+16 10.9	1.755	2.612	12.9	20.9
1 6	3 44.57	+15 31.3	1.628	2.398	17.8	20.2	1 6	3 45.90	+16 26.6	1.833	2.598	16.3	21.1
99795	2002 <i>KM</i> ₆		11 28.3 116°81	2°2/29.5	18		418530	2008 <i>SS</i> ₇₈		11 28.3 109°33	2°4/29.5	18	
10 28	4 46.75	+30 17.4	2.479	3.302	11.2	20.0	10 28	4 42.15	+30 4.9	2.489	3.320	10.9	22.0
11 7	4 38.72	+30 3.5	2.425	3.329	8.2	19.8	11 7	4 35.66	+30 8.2	2.425	3.332	8.0	21.8
11 17	4 29.03	+29 39.0	2.397	3.355	5.0	19.6	11 17	4 27.49	+30 2.0	2.386	3.344	5.0	21.6
11 27	4 18.56	+29 4.2	2.400	3.379	2.4	19.5	11 27	4 18.42	+29 46.0	2.377	3.356	2.6	21.5
12 7	4 8.30	+28 21.3	2.433	3.403	3.5	19.6	12 7	4 9.37	+29 21.4	2.398	3.367	3.6	21.6
12 17	3 59.15	+27 33.7	2.498	3.426	6.4	19.9	12 17	4 1.24	+28 51.0	2.449	3.378	6.4	21.8
12 27	3 51.83	+26 46.0	2.592	3.448	9.3	20.1	12 27	3 54.77	+28 18.4	2.527	3.389	9.3	22.0
1 6	3 46.76	+26 2.0	2.710	3.469	11.7	20.3	1 6	3 50.44	+27 47.4	2.630	3.400	11.7	22.2
76363	2000 <i>EK</i> ₁₇₃		11 28.3 9°92	3°4/27.6	18		378605	2008 <i>EF</i> ₁₄₉		11 28.3 149°55	0°4/28.4	18	
10 28	4 43.97	+11 48.5	1.566	2.430	14.4	18.9	10 28	4 47.91	+21 52.7	1.626	2.481	14.5	20.5
11 7	4 37.59	+12 2.6	1.504	2.431	10.5	18.7	11 7	4 40.43	+22 9.2	1.562	2.486	10.4	20.3
11 17	4 28.79	+12 23.1	1.466	2.432	6.3	18.4	11 17	4 30.35	+22 21.1	1.522	2.492	5.7	20.1
11 27	4 18.56	+12 51.2	1.454	2.434	3.4	18.3	11 27	4 18.76	+22 27.6	1.510	2.496	0.8	19.7
12 7	4 8.20	+13 27.2	1.470	2.436	5.8	18.4	12 7	4 7.07	+22 29.5	1.527	2.501	4.3	20.0
12 17	3 59.01	+14 10.9	1.513	2.439	10.0	18.7	12 17	3 56.68	+22 29.1	1.572	2.505	9.0	20.3
12 27	3 52.09	+15 1.7	1.581	2.442	13.9	18.9	12 27	3 48.76	+22 29.8	1.642	2.508	13.2	20.5
1 6	3 48.05	+15 58.7	1.670	2.446	17.2	19.2	1 6	3 43.93	+22 34.8	1.734	2.511	16.6	20.8
437996	2003 <i>UE</i> ₁₀₂		11 28.3 57°30	3°7/27.3	15		365585	2010 <i>TQ</i> ₁₃₈		11 28.3 313°58	0°6/28.5	18	
10 28	4 46.06	+12 58.9	1.425	2.291	15.5	20.9	10 28	4 41.47	+24 33.0	1.929	2.783	12.6	21.1
11 7	4 38.75	+12 40.6	1.394	2.322	11.1	20.7	11 7	4 35.57	+24 11.5	1.855	2.779	9.0	20.9
11 17	4 29.18	+12 26.7	1.387	2.354	6.5	20.6	11 17	4 27.60	+23 42.0	1.807	2.776	5.0	20.6
11 27	4 18.58	+12 19.7	1.406	2.386	3.7	20.5	11 27	4 18.44	+23 5.7	1.786	2.772	0.9	20.3
12 7	4 8.34	+12 21.8	1.453	2.418	6.1	20.7	12 7	4 9.21	+22 25.3	1.794	2.768	3.8	20.5
12 17	3 59.71	+12 34.1	1.526	2.450	10.1	21.0	12 17	4 1.00	+21 44.6	1.831	2.765	7.9	20.8
12 27	3 53.57	+12 56.8	1.624	2.481	13.8	21.3	12 27	3 54.74	+21 8.0	1.894	2.762	11.6	21.0
1 6	3 50.33	+13 29.0	1.742	2.513	16.8	21.6	1 6	3 50.99	+20 39.0	1.979	2.759	14.7	21.2
135858	2002 <i>SO</i> ₅₈		11 28.3 33°03	7°7/25.6	18		156608	2002 <i>GF</i> ₁₀₄					

EPHEMERIDES

11 28.3

11 28.3

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
430586	2002 <i>RM</i> ₆₆		11 28.3 36°03'	18°6'/20.1	15		97785	2000 <i>NZ</i> ₁		11 28.3 237°26'	1°4'/28.7	18	
10 28	4 40.68	-11 15.0	1.055	1.896	21.6	19.7	10 28	4 47.78	+25 21.0	1.473	2.330	15.6	19.6
11 7	4 35.41	-14 31.1	1.049	1.915	19.6	19.6	11 7	4 40.78	+25 19.8	1.397	2.321	11.4	19.4
11 17	4 27.51	-17 4.5	1.062	1.935	18.6	19.6	11 17	4 30.77	+25 8.7	1.344	2.312	6.5	19.1
11 27	4 18.41	-18 42.5	1.094	1.956	18.9	19.7	11 27	4 18.87	+24 47.0	1.317	2.303	1.7	18.7
12 7	4 9.71	-19 21.3	1.143	1.979	20.0	19.9	12 7	4 6.69	+24 16.6	1.318	2.293	4.8	18.9
12 17	4 2.77	-19 5.0	1.209	2.002	21.6	20.1	12 17	3 55.86	+23 42.2	1.346	2.282	10.0	19.2
12 27	3 58.57	-18 3.4	1.290	2.026	23.3	20.3	12 27	3 47.76	+23 9.7	1.399	2.272	14.6	19.4
1 6	3 57.48	-16 28.7	1.382	2.051	24.7	20.5	1 6	3 43.13	+22 44.6	1.472	2.261	18.5	19.7
221570	2006 <i>VG</i> ₂₈		11 28.3 142°95'	2°2'/28.9	18		51	<i>Nemausa</i>		11 28.3 253°69'	6°3'/25.8	18	
10 28	4 48.85	+26 24.2	1.671	2.518	14.5	20.9	10 28	4 42.75	+ 8 35.5	1.578	2.440	14.4	11.2
11 7	4 41.11	+26 46.2	1.608	2.526	10.6	20.7	11 7	4 36.70	+ 7 28.1	1.512	2.434	10.9	10.9
11 17	4 30.73	+26 59.1	1.569	2.534	6.2	20.5	11 17	4 28.32	+ 6 26.2	1.470	2.427	7.6	10.7
11 27	4 18.82	+27 1.3	1.558	2.541	2.4	20.3	11 27	4 18.58	+ 5 36.0	1.455	2.420	6.3	10.6
12 7	4 6.86	+26 53.4	1.576	2.548	4.5	20.4	12 7	4 8.73	+ 5 2.7	1.467	2.413	8.3	10.7
12 17	3 56.26	+26 38.4	1.621	2.554	8.8	20.7	12 17	4 0.00	+ 4 49.6	1.504	2.406	11.9	10.9
12 27	3 48.18	+26 21.3	1.693	2.560	12.8	20.9	12 27	3 53.44	+ 4 57.3	1.565	2.399	15.5	11.2
1 6	3 43.25	+26 6.8	1.786	2.565	16.1	21.2	1 6	3 49.66	+ 5 23.9	1.644	2.391	18.6	11.4
361837	2008 <i>DK</i> ₁₃		11 28.3 303°17'	5°8'/30.1	17		218133	2002 <i>QG</i> ₈₉		11 28.3 112°10'	1°5'/27.8	18	
10 28	4 45.38	+35 34.9	1.792	2.619	14.6	20.7	10 28	4 47.10	+18 59.8	1.600	2.459	14.5	21.8
11 7	4 39.04	+36 17.0	1.707	2.604	11.5	20.4	11 7	4 39.59	+18 32.8	1.549	2.476	10.3	21.6
11 17	4 29.82	+36 44.4	1.646	2.589	8.3	20.2	11 17	4 29.76	+18 2.4	1.523	2.493	5.6	21.3
11 27	4 18.74	+36 52.6	1.610	2.574	6.0	20.1	11 27	4 18.73	+17 31.1	1.524	2.509	1.5	21.1
12 7	4 7.23	+36 40.4	1.602	2.559	6.6	20.1	12 7	4 7.87	+17 2.2	1.554	2.525	4.8	21.4
12 17	3 56.85	+36 10.4	1.620	2.544	9.6	20.2	12 17	3 58.44	+16 39.2	1.611	2.540	9.3	21.7
12 27	3 48.94	+35 28.9	1.664	2.530	13.1	20.4	12 27	3 51.41	+16 25.3	1.695	2.554	13.2	22.0
1 6	3 44.31	+34 43.4	1.729	2.515	16.3	20.6	1 6	3 47.29	+16 21.9	1.799	2.568	16.4	22.2
298465	2003 <i>UG</i> ₁₅₁		11 28.3 11°00'	9°7'/ 1.1	18		302108	2001 <i>KN</i> ₂₉		11 28.3 160°07'	2°2'/27.0	18	
10 28	4 48.95	+41 48.0	1.474	2.288	17.8	20.1	10 28	4 42.65	+17 27.1	2.267	3.118	11.1	20.7
11 7	4 42.23	+43 11.2	1.413	2.290	14.8	19.9	11 7	4 35.97	+16 24.7	2.201	3.124	7.9	20.5
11 17	4 31.79	+44 12.0	1.373	2.292	11.8	19.7	11 17	4 27.66	+15 19.5	2.162	3.130	4.5	20.3
11 27	4 18.97	+44 42.4	1.356	2.295	9.9	19.6	11 27	4 18.50	+14 14.8	2.154	3.135	2.2	20.2
12 7	4 5.78	+44 39.4	1.364	2.298	10.1	19.6	12 7	4 9.40	+13 14.8	2.176	3.140	4.5	20.4
12 17	3 54.34	+44 6.7	1.396	2.302	12.3	19.8	12 17	4 1.23	+12 23.3	2.228	3.144	7.8	20.6
12 27	3 46.33	+43 13.6	1.451	2.307	15.2	20.0	12 27	3 54.72	+11 43.3	2.307	3.147	10.9	20.8
1 6	3 42.54	+42 11.4	1.525	2.312	18.0	20.2	1 6	3 50.32	+11 15.9	2.410	3.150	13.5	21.0
236728	<i>Leandri</i>		11 28.3 77°87'	4°0'/26.4	18		234330	2001 <i>EF</i>		11 28.3 118°99'	5°4'/26.8	18	
10 28	4 39.91	+10 27.1	2.226	3.079	11.1	20.4	10 28	4 46.14	+ 1 34.4	2.556	3.375	11.0	20.7
11 7	4 33.95	+ 9 39.4	2.181	3.100	8.2	20.2	11 7	4 38.13	+ 1 29.9	2.510	3.400	8.5	20.5
11 17	4 26.50	+ 8 55.7	2.162	3.121	5.3	20.1	11 17	4 28.72	+ 1 35.5	2.490	3.424	6.4	20.4
11 27	4 18.33	+ 8 19.6	2.171	3.141	4.0	20.0	11 27	4 18.62	+ 1 53.2	2.501	3.447	5.4	20.4
12 7	4 10.29	+ 7 53.8	2.211	3.161	5.6	20.2	12 7	4 8.66	+ 2 23.4	2.542	3.470	6.4	20.5
12 17	4 3.16	+ 7 40.0	2.278	3.181	8.3	20.4	12 17	3 59.59	+ 3 5.6	2.614	3.491	8.5	20.7
12 27	3 57.61	+ 7 39.0	2.371	3.201	11.0	20.6	12 27	3 52.07	+ 3 58.2	2.713	3.512	10.7	20.9
1 6	3 54.02	+ 7 49.9	2.487	3.221	13.3	20.8	1 6	3 46.48	+ 4 58.9	2.836	3.532	12.6	21.1
172383	2003 <i>AW</i> ₁₅		11 28.3 281°32'	4°8'/30.2	17		481636	2007 <i>VJ</i> ₅₆		11 28.3 341°41'	1°4'/28.4	18	
10 28	4 44.79	+34 46.4	1.933	2.760	13.7	19.9	10 28	4 49.61	+21 19.9	1.696	2.547	14.2	20.6
11 7	4 38.30	+35 6.6	1.850	2.749	10.6	19.7	11 7	4 41.86	+22 33.8	1.623	2.545	10.3	20.3
11 17	4 29.27	+35 12.0	1.791	2.738	7.4	19.5	11 17	4 31.31	+23 47.2	1.575	2.543	5.8	20.1
11 27	4 18.67	+35 0.0	1.758	2.726	5.0	19.3	11 27	4 18.96	+24 56.1	1.556	2.541	1.6	19.8
12 7	4 7.82	+34 30.6	1.754	2.715	5.7	19.3	12 7	4 6.19	+25 57.3	1.567	2.540	4.5	20.0
12 17	3 58.08	+33 47.3	1.777	2.704	8.7	19.5	12 17	3 54.52	+26 49.6	1.608	2.539	9.0	20.3
12 27	3 50.60	+32 56.2	1.826	2.692	12.0	19.7	12 27	3 45.24	+27 34.7	1.674	2.538	13.1	20.5
1 6	3 46.08	+32 4.2	1.897	2.681	15.1	19.9	1 6	3 39.15	+28 15.6	1.763	2.537	16.5	20.7
115656	2003 <i>UT</i> ₁₃₇		11 28.3 319°62'	5°3'/25.7	18		436859	2012 <i>SR</i> ₅₈		11 28.3 58°51'	1°0'/28.0	18	
10 28	4 37.94	+ 9 1.8	1.907	2.770	12.3	18.8	10 28	4 47.01	+19 31.3	1.317	2.186	16.3	20.7
11 7	4 33.07	+ 8 3.9	1.829	2.751	9.3	18.5	11 7	4 39.77	+19 25.8	1.280	2.212	11.5	20.5
11 17	4 26.28	+ 7 10.0	1.775	2.732	6.5	18.3	11 17	4 29.90	+19 17.0	1.266	2.238	6.2	20.2
11 27	4 18.33	+ 6 24.9	1.748	2.714	5.3	18.2	11 27	4 18.75	+19 6.3	1.278	2.264	1.1	20.0
12 7	4 10.19	+ 5 53.1	1.749	2.696	7.1	18.3	12 7	4 7.93	+18 56.3	1.317	2.291	5.0	20.3
12 17	4 2.85	+ 5 37.6	1.776	2.679	10.3	18.4	12 17	3 58.85	+18 49.9	1.383	2.318	9.9	20.7
12 27	3 57.21	+ 5 39.5	1.828	2.662	13.6	18.6	12 27	3 52.54	+18 50.1	1.472	2.344	14.1	21.0
1 6	3 53.86	+ 5 58.0	1.899	2.646	16.4	18.8	1 6	3 49.46	+18 58.5	1.582	2.371	17.4	21.3
9345	1991 <i>RA</i> ₁₀		11 28.3 108°74'	1°1'/28.7	18		276626	2003 <i>UO</i> ₁₄₈		11 28.3 49°33'	0°9'/28.0	17	
10 28	4 46.07	+26 3.9	1.517	2.375	15.2	17.9	10 28	4 42.96	+17 3.5	2.182	3.034	11.4	19.9
11 7	4 39.18	+25 38.9	1.457	2.382	11.0	17.7	11 7	4 36.42	+17 28.4	2.114	3.038	8.1	19.7
11 17	4 29.66	+25 2.5	1.420	2.389	6.2	17.4	11 17	4 28.02	+17 53.9	2.072	3.042	4.5	19.5
11 27	4 18.71	+24 15.9	1.410	2.395	1.5	17.1	11 27	4 18.56	+18 20.0	2.060	3.046	1.0	19.2
12 7	4 7.83	+23 22.9	1.427	2.402	4.4	17.4	12 7	4 8.99	+18 46.6	2.078	3.050	3.7	19.5
12 17	3 58.45	+22 29.4	1.473	2.409	9.3	17.7	12 17	4 0.27	+19 14.2	2.126	3.054	7.3	19.7
12 27	3 51.65	+21 41.4	1.543	2.415	13.5	17.9	12 27	3 53.25	+19 43.5	2.201	3.058	10.6	19.9
1 6	3 48.00	+21 3.6	1.634	2.421	17.0	18.2	1 6	3 48.48	+20 15.6	2.299	3.063	13.4	20.1
60045	1999 <i>TD</i> ₁₀₄		11 28.3 121°55'	5°9'/30.5	18		388169	2006 <i>AF</i> ₆₂		11 28.3 179°19'			

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
301836	2011 <i>RQ</i> ₁		11 28.3 262°25	2°9/27.1	18		287998	2003 <i>UX</i> ₁₉₀		11 28.3 24°17	2°3/27.4	18	
10 28	4 42.10	+15 41.3	1.758	2.621	13.2	20.5	10 28	4 39.57	+16 19.7	1.757	2.625	12.9	20.2
11 7	4 36.12	+14 58.3	1.687	2.615	9.5	20.2	11 7	4 34.21	+15 54.1	1.703	2.634	9.2	20.0
11 17	4 27.97	+14 14.2	1.641	2.610	5.5	20.0	11 17	4 26.87	+15 28.4	1.673	2.643	5.2	19.8
11 27	4 18.56	+13 32.7	1.622	2.604	2.9	19.8	11 27	4 18.47	+15 5.2	1.670	2.653	2.3	19.6
12 7	4 9.06	+12 57.5	1.632	2.597	5.5	20.0	12 7	4 10.11	+14 47.3	1.694	2.663	4.8	19.8
12 17	4 0.58	+12 32.3	1.670	2.591	9.5	20.2	12 17	4 2.82	+14 37.2	1.747	2.674	8.7	20.0
12 27	3 54.13	+12 19.6	1.732	2.585	13.3	20.4	12 27	3 57.48	+14 36.6	1.824	2.686	12.3	20.3
1 6	3 50.27	+12 20.2	1.815	2.579	16.4	20.6	1 6	3 54.57	+14 45.9	1.923	2.698	15.2	20.5
292777	2006 <i>UE</i> ₂₁₃		11 28.3 102°69	0°6/28.6	18		152515	2005 <i>YO</i> ₁₈₆		11 28.3 174°20	3°2/26.9	18	
10 28	4 42.74	+24 32.5	1.959	2.811	12.5	21.0	10 28	4 40.41	+10 53.3	2.475	3.324	10.3	19.6
11 7	4 36.39	+24 14.5	1.895	2.818	9.0	20.8	11 7	4 34.38	+10 38.8	2.407	3.325	7.6	19.5
11 17	4 28.02	+23 48.9	1.855	2.824	5.0	20.6	11 17	4 26.85	+10 28.0	2.365	3.326	4.8	19.3
11 27	4 18.57	+23 16.8	1.844	2.830	0.9	20.3	11 27	4 18.47	+10 22.7	2.353	3.327	3.2	19.2
12 7	4 9.13	+22 40.7	1.862	2.836	3.7	20.6	12 7	4 10.05	+10 24.7	2.370	3.328	4.8	19.3
12 17	4 0.77	+22 4.3	1.909	2.842	7.7	20.8	12 17	4 2.35	+10 34.8	2.418	3.328	7.5	19.5
12 27	3 54.38	+21 31.6	1.982	2.848	11.3	21.1	12 27	3 56.06	+10 53.6	2.492	3.328	10.3	19.7
1 6	3 50.48	+21 5.8	2.078	2.854	14.2	21.3	1 6	3 51.66	+11 20.6	2.589	3.328	12.7	19.8
395604	2011 <i>UD</i> ₃₂₈		11 28.3 118°52	1°1/27.8	18		395709	2012 <i>TP</i> ₇₉		11 28.3 65°54	4°1/28.0	17	
10 28	4 42.79	+21 5.6	1.928	2.784	12.5	21.0	10 28	5 2.41	+20 22.4	0.957	1.822	21.3	19.6
11 7	4 36.33	+20 15.4	1.866	2.792	8.9	20.8	11 7	4 52.76	+23 8.5	0.904	1.831	15.6	19.3
11 17	4 27.95	+19 19.3	1.830	2.800	4.8	20.6	11 17	4 38.05	+26 0.4	0.872	1.840	9.2	19.0
11 27	4 18.56	+18 20.4	1.822	2.808	1.1	20.3	11 27	4 19.84	+28 41.8	0.867	1.849	4.2	18.8
12 7	4 9.25	+17 23.0	1.844	2.815	4.2	20.6	12 7	4 0.88	+30 57.7	0.889	1.859	7.7	19.0
12 17	4 1.04	+16 31.4	1.895	2.822	8.2	20.8	12 17	3 44.21	+32 42.0	0.937	1.869	13.8	19.4
12 27	3 54.79	+15 49.6	1.972	2.829	11.7	21.0	12 27	3 32.18	+33 59.1	1.008	1.878	19.1	19.8
1 6	3 50.97	+15 19.6	2.072	2.836	14.7	21.3	1 6	3 25.78	+34 58.7	1.096	1.888	23.3	20.1
193088	2000 <i>GV</i> ₇₄		11 28.3 235°78	1°9/29.1	18		480418	2015 <i>KN</i> ₉₉		11 28.3 210°45	3°0/26.5	16	
10 28	4 41.94	+27 13.0	2.545	3.382	10.5	20.1	10 28	4 45.97	+18 22.1	1.833	2.688	13.1	21.4
11 7	4 35.65	+27 32.1	2.464	3.376	7.7	19.9	11 7	4 38.73	+16 40.0	1.757	2.682	9.4	21.2
11 17	4 27.62	+27 44.7	2.409	3.370	4.6	19.7	11 17	4 29.35	+14 50.4	1.708	2.676	5.4	20.9
11 27	4 18.53	+27 49.7	2.383	3.364	2.0	19.6	11 27	4 18.78	+12 59.4	1.689	2.669	3.1	20.8
12 7	4 9.28	+27 47.7	2.387	3.358	3.4	19.6	12 7	4 8.21	+11 14.6	1.701	2.662	5.8	20.9
12 17	4 0.76	+27 40.0	2.421	3.351	6.5	19.8	12 17	3 58.80	+9 43.2	1.742	2.654	9.9	21.2
12 27	3 53.79	+27 29.5	2.484	3.345	9.4	20.0	12 27	3 51.48	+8 30.4	1.810	2.646	13.6	21.4
1 6	3 48.90	+27 19.4	2.570	3.338	12.0	20.2	1 6	3 46.79	+7 38.1	1.899	2.637	16.7	21.6
515715	2014 <i>TR</i> ₆₁		11 28.3 117°32	1°1/27.7	18		482935	2014 <i>JX</i> ₃₆		11 28.3 20°67	0°0/28.2	18	
10 28	4 39.98	+19 40.0	2.444	3.295	10.3	20.8	10 28	4 45.74	+19 32.1	1.607	2.468	14.3	20.6
11 7	4 34.04	+19 1.5	2.381	3.305	7.3	20.6	11 7	4 39.00	+20 7.3	1.543	2.470	10.3	20.4
11 17	4 26.61	+18 19.7	2.344	3.314	4.0	20.4	11 17	4 29.69	+20 41.5	1.502	2.473	5.6	20.1
11 27	4 18.41	+17 36.8	2.338	3.323	1.1	20.2	11 27	4 18.83	+21 13.5	1.489	2.475	0.6	19.7
12 7	4 10.26	+16 55.6	2.362	3.332	3.5	20.4	12 7	4 7.79	+21 42.7	1.504	2.478	4.3	20.0
12 17	4 2.94	+16 19.0	2.415	3.340	6.8	20.6	12 17	3 57.94	+22 9.8	1.547	2.481	9.0	20.3
12 27	3 57.12	+15 49.6	2.497	3.349	9.7	20.8	12 27	3 50.44	+22 36.7	1.615	2.484	13.2	20.6
1 6	3 53.23	+15 29.0	2.601	3.357	12.2	21.0	1 6	3 45.98	+23 5.4	1.705	2.488	16.6	20.8
453293	2008 <i>TZ</i> ₁₈₇		11 28.3 87°35	2°0/27.2	17		443278	2014 <i>EQ</i> ₃₆		11 28.3 166°14	0°5/28.5	18	
10 28	4 38.98	+17 17.0	2.341	3.197	10.6	20.9	10 28	4 45.30	+22 52.3	2.082	2.928	12.1	22.1
11 7	4 33.42	+16 28.6	2.273	3.199	7.5	20.8	11 7	4 38.19	+22 56.3	2.012	2.933	8.7	21.8
11 17	4 26.31	+15 38.2	2.232	3.201	4.3	20.6	11 17	4 29.05	+22 55.1	1.968	2.936	4.8	21.6
11 27	4 18.38	+14 48.6	2.221	3.203	2.0	20.4	11 27	4 18.75	+22 48.7	1.954	2.940	0.8	21.3
12 7	4 10.45	+14 3.1	2.239	3.205	4.1	20.6	12 7	4 8.37	+22 38.4	1.969	2.942	3.6	21.6
12 17	4 3.34	+13 24.9	2.287	3.207	7.4	20.8	12 17	3 59.00	+22 26.4	2.014	2.945	7.5	21.8
12 27	3 57.73	+12 56.3	2.362	3.209	10.4	21.0	12 27	3 51.55	+22 15.8	2.086	2.946	11.0	22.0
1 6	3 54.07	+12 38.5	2.459	3.211	12.9	21.1	1 6	3 46.56	+22 9.5	2.181	2.948	13.9	22.2
430063	2013 <i>SE</i> ₃₀		11 28.3 66°60	0°4/28.2	18		234637	2002 <i>CP</i> ₄₆		11 28.3 98°66	2°1/29.1	18	
10 28	4 48.23	+20 25.0	1.240	2.110	17.1	20.8	10 28	4 46.12	+27 28.5	1.725	2.573	14.1	20.8
11 7	4 40.91	+20 29.3	1.197	2.129	12.1	20.6	11 7	4 39.03	+27 29.1	1.667	2.586	10.3	20.6
11 17	4 30.66	+20 29.3	1.177	2.149	6.6	20.3	11 17	4 29.56	+27 19.2	1.634	2.598	6.0	20.4
11 27	4 18.88	+20 25.4	1.182	2.169	0.8	20.0	11 27	4 18.80	+26 58.4	1.627	2.611	2.3	20.2
12 7	4 7.33	+20 19.9	1.214	2.189	5.1	20.3	12 7	4 8.11	+26 28.7	1.650	2.623	4.2	20.4
12 17	3 57.60	+20 15.8	1.272	2.209	10.3	20.7	12 17	3 58.78	+25 54.2	1.700	2.635	8.4	20.6
12 27	3 50.87	+20 16.7	1.353	2.229	14.8	21.0	12 27	3 51.81	+25 20.2	1.777	2.646	12.2	20.9
1 6	3 47.63	+20 25.0	1.454	2.248	18.5	21.3	1 6	3 47.74	+24 51.1	1.875	2.658	15.3	21.1
329849	2004 <i>TP</i> ₁₃₄		11 28.3 31°88	0°9/28.6	17		235893	2005 <i>CJ</i> ₅₉		11 28.3 287°26	3°0/26.8	18	
10 28	4 44.63	+24 31.4	0.942	1.829	19.6	20.5	10 28	4 38.87	+13 33.4	2.266	3.123	10.8	20.5
11 7	4 39.05	+24 15.4	0.901	1.840	14.1	20.2	11 7	4 33.50	+12 55.2	2.188	3.112	7.9	20.3
11 17	4 29.88	+23 47.4	0.879	1.853	7.8	19.9	11 17	4 26.46	+12 17.8	2.135	3.100	4.8	20.1
11 27	4 18.80	+23 9.2	0.880	1.866	1.4	19.6	11 27	4 18.46	+11 44.1	2.111	3.088	3.0	20.0
12 7	4 7.95	+22 25.7	0.904	1.881	5.7	19.9	12 7	4 10.34	+11 17.0	2.116	3.076	4.9	20.1
12 17	3 59.26	+21 44.3	0.951	1.896	11.7	20.3	12 17	4 2.94	+10 59.0	2.150	3.064	8.1	20.3
12 27	3 54.09	+21 11.8	1.019	1.912	17.0	20.6	12 27	3 57.05	+10 51.8	2.210	3.053	11.2	20.4
1 6	3 52.93	+20 52.3	1.105	1.929	21.1	21.0	1 6	3 53.16	+10 55.8	2.292	3.041	13.9	20.6
294082	2007 <i>TZ</i> ₁₉₁		11 28.3 244°96	6°1/25.3	18		117392	2004 <i>YV</i> ₃₁					

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
262502	2006 <i>UM</i> ₂₅₅	11 28.3 273°09		0°8/27.9 18			133643	2003 <i>US</i> ₁₄₇	11 28.3 241°24		0°2/28.2 17		
10 28	4 41.96	+20 22.8	1.901	2.760	12.5	21.3	10 28	4 40.08	+23 14.1	2.464	3.312	10.4	20.0
11 7	4 35.97	+20 1.0	1.829	2.756	8.9	21.1	11 7	4 34.25	+22 28.3	2.384	3.306	7.4	19.8
11 17	4 27.91	+19 35.0	1.782	2.752	4.9	20.9	11 17	4 26.83	+21 35.7	2.331	3.300	4.0	19.6
11 27	4 18.65	+19 6.4	1.762	2.748	0.9	20.6	11 27	4 18.55	+20 38.5	2.308	3.294	0.5	19.3
12 7	4 9.29	+18 37.8	1.772	2.744	4.1	20.8	12 7	4 10.23	+19 39.8	2.315	3.288	3.2	19.5
12 17	4 0.92	+18 12.6	1.810	2.740	8.2	21.1	12 17	4 2.71	+18 43.4	2.353	3.282	6.7	19.7
12 27	3 54.48	+17 53.9	1.874	2.737	12.0	21.3	12 27	3 56.70	+17 53.0	2.419	3.275	9.8	19.9
1 6	3 50.53	+17 43.9	1.959	2.733	15.1	21.5	1 6	3 52.67	+17 11.3	2.508	3.269	12.5	20.1
115119	2003 <i>SP</i> ₄₄	11 28.3 342°95		4°0/29.6 18			274830	2009 <i>PK</i> ₁₈	11 28.3 259°51		1°2/28.7 18		
10 28	4 40.84	+30 20.7	1.248	2.116	17.1	19.1	10 28	4 46.23	+24 46.7	1.496	2.356	15.3	21.0
11 7	4 36.33	+30 29.4	1.177	2.103	12.9	18.8	11 7	4 39.66	+24 46.6	1.422	2.348	11.1	20.7
11 17	4 28.56	+30 22.0	1.127	2.091	8.2	18.5	11 17	4 30.21	+24 37.6	1.371	2.340	6.3	20.4
11 27	4 18.74	+29 56.3	1.100	2.080	4.2	18.3	11 27	4 18.98	+24 19.4	1.346	2.332	1.5	20.1
12 7	4 8.61	+29 14.2	1.098	2.071	5.8	18.3	12 7	4 7.49	+23 53.7	1.349	2.324	4.6	20.3
12 17	3 59.96	+28 21.4	1.120	2.063	10.7	18.6	12 17	3 57.30	+23 24.7	1.379	2.315	9.7	20.6
12 27	3 54.29	+27 26.6	1.165	2.056	15.4	18.8	12 27	3 49.72	+22 58.0	1.433	2.307	14.2	20.8
1 6	3 52.35	+26 37.3	1.228	2.050	19.6	19.1	1 6	3 45.48	+22 38.0	1.508	2.298	18.1	21.0
4586	Gunvor	11 28.3 288°63		2°8/27.3 18			27162	1999 <i>AM</i> ₆	11 28.3 19°62		4°2/29.8 18		
10 28	4 43.59	+17 17.3	1.416	2.288	15.2	17.3	10 28	4 46.42	+31 27.8	1.413	2.264	16.5	17.0
11 7	4 37.67	+16 30.4	1.346	2.279	11.0	17.0	11 7	4 39.93	+31 39.9	1.349	2.265	12.4	16.8
11 17	4 29.05	+15 40.1	1.299	2.270	6.3	16.7	11 17	4 30.36	+31 35.8	1.307	2.267	8.0	16.5
11 27	4 18.79	+14 50.4	1.278	2.261	2.8	16.5	11 27	4 18.99	+31 13.4	1.291	2.268	4.4	16.3
12 7	4 8.35	+14 6.6	1.284	2.252	6.1	16.7	12 7	4 7.52	+30 34.2	1.300	2.270	5.7	16.4
12 17	3 59.19	+13 33.6	1.315	2.244	10.9	16.9	12 17	3 57.64	+29 43.8	1.336	2.272	10.0	16.7
12 27	3 52.51	+13 15.1	1.371	2.235	15.4	17.2	12 27	3 50.68	+28 50.3	1.396	2.275	14.2	16.9
1 6	3 49.00	+13 12.4	1.445	2.227	19.1	17.4	1 6	3 47.28	+28 1.1	1.476	2.278	17.9	17.2
108830	2001 <i>OE</i> ₈₂	11 28.3 125°21		2°0/29.2 18			118005	1214 <i>T</i> ₋₂	11 28.3 6°42		2°4/29.2 17		
10 28	4 45.51	+28 22.5	2.419	3.250	11.1	20.6	10 28	4 41.04	+27 52.9	1.859	2.711	13.1	19.7
11 7	4 38.06	+28 27.9	2.360	3.269	8.2	20.4	11 7	4 35.48	+28 5.6	1.793	2.712	9.6	19.5
11 17	4 28.86	+28 24.7	2.327	3.287	4.9	20.2	11 17	4 27.71	+28 9.1	1.750	2.713	5.8	19.2
11 27	4 18.75	+28 12.3	2.323	3.304	2.2	20.1	11 27	4 18.67	+28 2.4	1.734	2.715	2.6	19.0
12 7	4 8.71	+27 52.0	2.350	3.321	3.5	20.2	12 7	4 9.54	+27 46.6	1.746	2.718	4.2	19.2
12 17	3 59.67	+27 26.5	2.408	3.337	6.6	20.4	12 17	4 1.46	+27 24.7	1.786	2.721	7.9	19.4
12 27	3 52.41	+26 59.4	2.494	3.352	9.5	20.6	12 27	3 55.45	+27 1.0	1.851	2.725	11.5	19.6
1 6	3 47.39	+26 34.3	2.603	3.367	12.0	20.8	1 6	3 52.07	+26 39.6	1.939	2.730	14.6	19.8
134810	2000 <i>EB</i> ₁₈₂	11 28.3 105°52		13°2/ 2.4 18			434823	2006 <i>RR</i> ₁₀₅	11 28.3 236°29		0°6/28.1 18		
10 28	5 1.47	+55 17.4	1.969	2.680	17.4	19.6	10 28	4 46.10	+21 11.8	1.606	2.465	14.4	22.2
11 7	4 52.09	+57 20.6	1.906	2.681	15.7	19.5	11 7	4 39.34	+20 49.7	1.529	2.456	10.4	21.9
11 17	4 37.79	+58 57.8	1.864	2.683	14.2	19.4	11 17	4 29.95	+20 21.3	1.476	2.446	5.7	21.6
11 27	4 19.88	+59 58.0	1.844	2.684	13.3	19.3	11 27	4 18.95	+19 48.3	1.450	2.436	0.9	21.3
12 7	4 0.86	+60 15.4	1.846	2.685	13.3	19.3	12 7	4 7.73	+19 13.7	1.452	2.425	4.7	21.5
12 17	3 43.69	+59 52.0	1.871	2.687	14.1	19.4	12 17	3 57.69	+18 41.8	1.482	2.414	9.6	21.8
12 27	3 30.79	+58 57.2	1.918	2.688	15.5	19.5	12 27	3 50.03	+18 17.1	1.537	2.403	14.0	22.0
1 6	3 23.29	+57 44.0	1.983	2.689	17.0	19.6	1 6	3 45.43	+18 2.9	1.613	2.391	17.6	22.3
77465	2001 <i>HK</i> ₂₀	11 28.3 278°64		14°4/18.8 18			216619	2002 <i>VM</i> ₁₂₈	11 28.3 323°32		1°9/27.8 18		
10 28	4 42.11	- 9 1.5	1.546	2.366	16.9	18.7	10 28	4 41.99	+16 56.2	1.656	2.522	13.7	20.1
11 7	4 36.44	-11 38.0	1.489	2.347	15.2	18.6	11 7	4 36.30	+16 49.4	1.582	2.513	9.8	19.8
11 17	4 28.34	-13 54.6	1.453	2.327	14.4	18.5	11 17	4 28.25	+16 42.4	1.533	2.504	5.5	19.6
11 27	4 18.73	-15 38.7	1.441	2.308	14.8	18.4	11 27	4 18.76	+16 36.7	1.510	2.495	1.9	19.3
12 7	4 8.85	-16 41.8	1.451	2.288	16.4	18.5	12 7	4 9.04	+16 34.4	1.515	2.486	4.9	19.5
12 17	4 0.00	-17 0.9	1.481	2.269	18.5	18.6	12 17	4 0.36	+16 37.6	1.548	2.479	9.3	19.7
12 27	3 53.29	-16 38.6	1.528	2.249	20.8	18.7	12 27	3 53.80	+16 48.3	1.605	2.471	13.4	20.0
1 6	3 49.43	-15 41.8	1.588	2.229	22.9	18.8	1 6	3 50.03	+17 7.4	1.683	2.464	16.9	20.2
125440	2001 <i>VP</i> ₁₁₇	11 28.3 345°40		2°0/28.9 18			413166	2002 <i>PY</i> ₁₆₁	11 28.3 22°59		3°7/27.2 18		
10 28	4 42.15	+26 0.2	1.214	2.089	17.0	19.0	10 28	4 39.76	+11 57.7	1.717	2.583	13.2	20.3
11 7	4 37.19	+26 6.1	1.148	2.080	12.5	18.7	11 7	4 34.38	+11 39.3	1.665	2.593	9.6	20.1
11 17	4 29.01	+26 0.9	1.102	2.072	7.3	18.4	11 17	4 27.03	+11 25.3	1.638	2.603	5.9	19.9
11 27	4 18.82	+25 43.8	1.081	2.066	2.3	18.1	11 27	4 18.60	+11 18.5	1.637	2.614	3.7	19.8
12 7	4 8.36	+25 16.9	1.084	2.060	5.2	18.3	12 7	4 10.21	+11 21.1	1.663	2.626	5.8	20.0
12 17	3 59.40	+24 45.1	1.112	2.055	10.7	18.6	12 17	4 2.90	+11 34.2	1.717	2.638	9.3	20.2
12 27	3 53.41	+24 14.9	1.163	2.052	15.6	18.8	12 27	3 57.53	+11 58.1	1.796	2.652	12.7	20.4
1 6	3 51.13	+23 52.0	1.232	2.049	19.8	19.1	1 6	3 54.60	+12 31.7	1.895	2.665	15.6	20.7
29676	1998 <i>XW</i> ₁₅	11 28.3 303°51		6°0/ 1.4 18			110514	2001 <i>TD</i> ₇₇	11 28.3 326°04		0°1/28.3 18		
10 28	4 47.25	+39 0.4	1.430	2.258	17.6	17.7	10 28	4 42.81	+20 54.5	1.890	2.747	12.7	19.3
11 7	4 40.89	+38 24.3	1.338	2.235	14.0	17.4	11 7	4 36.64	+20 58.2	1.819	2.745	9.1	19.1
11 17	4 31.05	+37 18.3	1.267	2.212	9.9	17.1	11 17	4 28.34	+20 58.4	1.773	2.743	5.0	18.9
11 27	4 19.06	+35 39.2	1.220	2.189	6.5	16.8	11 27	4 18.77	+20 55.5	1.755	2.741	0.6	18.5
12 7	4 6.82	+33 30.2	1.200	2.166	6.9	16.8	12 7	4 9.07	+20 50.7	1.766	2.740	3.9	18.8
12 17	3 56.25	+31 2.0	1.208	2.144	10.8	16.9	12 17	4 0.36	+20 46.3	1.805	2.738	8.1	19.0
12 27	3 48.87	+28 29.6	1.240	2.122	15.4	17.1	12 27	3 53.62	+20 44.9	1.871	2.737	11.8	19.3
1 6	3 45.41	+26 7.0	1.295	2.101	19.7	17.4	1 6	3 49.43	+20 48.7	1.958	2.735	15.0	19.5
372153	2008 <i>SD</i> ₂₈₉	11 28.3 330°09		2°4/29.3 16			336729	2010 <i>DE</i> ₇₆	11 28.3 9°23		1°0/28.6 18		
10 28	4 40.70												

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
229829	2008 <i>UG</i> ₁₃₄		11 28.3 172°63	0°0/28.2 17			520824	2014 <i>UQ</i> ₂₀₁		11 28.3 88°28	2°1/29.1 18		
10 28	4 39.86	+22 18.5	2.618	3.466	9.9	21.1	10 28	4 45.56	+27 13.5	2.405	3.239	11.1	21.1
11 7	4 34.04	+22 3.8	2.545	3.467	7.0	20.9	11 7	4 38.16	+27 45.1	2.353	3.263	8.1	21.0
11 17	4 26.72	+21 44.9	2.499	3.468	3.8	20.7	11 17	4 29.00	+28 9.4	2.326	3.287	4.9	20.8
11 27	4 18.58	+21 22.6	2.482	3.469	0.5	20.5	11 27	4 18.89	+28 25.2	2.330	3.310	2.2	20.7
12 7	4 10.40	+20 58.6	2.496	3.469	3.0	20.7	12 7	4 8.83	+28 32.5	2.364	3.334	3.5	20.8
12 17	4 2.94	+20 35.2	2.540	3.470	6.2	20.9	12 17	3 59.74	+28 33.1	2.428	3.357	6.5	21.1
12 27	3 56.91	+20 14.9	2.612	3.470	9.1	21.1	12 27	3 52.42	+28 29.8	2.521	3.379	9.4	21.3
1 6	3 52.74	+19 59.7	2.708	3.470	11.6	21.3	1 6	3 47.34	+28 25.8	2.637	3.402	11.9	21.5
32084	2000 <i>KP</i> ₅		11 28.3 81°31	4°3/26.9 18			289970	2005 <i>NL</i> ₁₀₀		11 28.3 340°10	0°5/28.1 18		
10 28	4 44.53	+12 46.6	1.509	2.374	14.8	19.2	10 28	4 42.18	+20 47.9	1.812	2.672	13.0	21.2
11 7	4 37.87	+11 59.5	1.463	2.390	10.7	19.0	11 7	4 36.25	+20 33.8	1.743	2.670	9.3	21.0
11 17	4 28.93	+11 15.6	1.440	2.405	6.6	18.8	11 17	4 28.15	+20 15.5	1.698	2.668	5.1	20.7
11 27	4 18.83	+10 39.4	1.444	2.421	4.3	18.7	11 27	4 18.81	+19 54.1	1.681	2.667	0.8	20.4
12 7	4 8.89	+10 14.8	1.475	2.436	6.6	18.9	12 7	4 9.37	+19 32.1	1.692	2.666	4.1	20.6
12 17	4 0.33	+10 4.6	1.534	2.451	10.5	19.1	12 17	4 0.97	+19 12.4	1.731	2.664	8.4	20.9
12 27	3 54.11	+10 9.5	1.616	2.466	14.2	19.4	12 27	3 54.59	+18 58.4	1.797	2.663	12.2	21.1
1 6	3 50.70	+10 28.5	1.718	2.481	17.3	19.7	1 6	3 50.80	+18 52.2	1.883	2.662	15.4	21.3
11809	Shinnaka		11 28.3 109°47	3°4/29.4 18			45069	1999 <i>XB</i> ₃₅		11 28.3 189°71	5°4/26.1 18		
10 28	4 48.54	+29 37.8	1.446	2.297	16.2	19.1	10 28	4 39.73	+4 8.1	2.363	3.205	11.0	18.2
11 7	4 41.31	+29 52.1	1.386	2.303	12.1	18.8	11 7	4 33.99	+3 39.9	2.300	3.205	8.5	18.0
11 17	4 31.08	+29 52.6	1.348	2.310	7.5	18.6	11 17	4 26.74	+3 20.1	2.261	3.204	6.3	17.9
11 27	4 19.11	+29 37.1	1.336	2.317	3.7	18.4	11 27	4 18.64	+3 11.9	2.251	3.204	5.5	17.8
12 7	4 7.12	+29 7.3	1.351	2.323	5.3	18.5	12 7	4 10.50	+3 17.2	2.269	3.204	6.7	17.9
12 17	3 56.74	+28 27.9	1.393	2.329	9.7	18.8	12 17	4 3.09	+3 36.6	2.316	3.203	9.0	18.1
12 27	3 49.25	+27 46.3	1.460	2.335	14.0	19.1	12 27	3 57.11	+4 9.5	2.388	3.203	11.4	18.2
1 6	3 45.27	+27 9.0	1.547	2.341	17.5	19.3	1 6	3 53.03	+4 54.1	2.482	3.202	13.6	18.4
301280	2009 <i>BS</i> ₉₄		11 28.3 358°54	2°3/29.1 18			412705	2014 <i>OC</i> ₂₉₃		11 28.3 7°88	9°1/24.0 18		
10 28	4 43.39	+27 34.9	1.502	2.362	15.2	20.6	10 28	4 38.22	-1 21.0	1.846	2.688	13.6	20.6
11 7	4 37.56	+27 33.8	1.436	2.360	11.2	20.3	11 7	4 33.20	-2 42.8	1.796	2.689	11.2	20.4
11 17	4 29.01	+27 20.9	1.393	2.359	6.6	20.1	11 17	4 26.39	-3 50.3	1.770	2.690	9.5	20.3
11 27	4 18.88	+26 55.9	1.375	2.359	2.5	19.8	11 27	4 18.60	-4 37.1	1.769	2.692	9.2	20.3
12 7	4 8.64	+26 21.0	1.385	2.359	4.7	20.0	12 7	4 10.81	-4 58.9	1.794	2.694	10.4	20.4
12 17	3 59.75	+25 41.0	1.421	2.359	9.3	20.2	12 17	4 3.95	-4 54.8	1.842	2.697	12.6	20.5
12 27	3 53.41	+25 1.8	1.481	2.360	13.5	20.5	12 27	3 58.82	-4 26.2	1.913	2.701	14.9	20.7
1 6	3 50.25	+24 28.8	1.562	2.361	17.1	20.7	1 6	3 55.92	-3 37.5	2.002	2.704	17.0	20.9
150849	2001 <i>SZ</i> ₈₇		11 28.3 118°15	0°4/28.5 18			446011	2013 <i>CJ</i> ₄₁		11 28.3 293°04	3°4/27.1 18		
10 28	4 46.86	+23 51.2	1.703	2.556	14.0	21.1	10 28	4 41.95	+14 4.9	1.718	2.582	13.4	21.5
11 7	4 39.51	+23 32.7	1.647	2.570	10.0	20.9	11 7	4 36.16	+13 31.0	1.646	2.573	9.7	21.3
11 17	4 29.84	+23 6.4	1.615	2.584	5.5	20.6	11 17	4 28.15	+12 58.1	1.597	2.565	5.8	21.0
11 27	4 18.96	+22 33.3	1.610	2.597	0.8	20.3	11 27	4 18.82	+12 29.6	1.576	2.556	3.4	20.9
12 7	4 8.19	+21 56.5	1.635	2.609	4.1	20.6	12 7	4 9.32	+12 9.0	1.583	2.547	5.8	21.0
12 17	3 58.78	+21 20.2	1.689	2.622	8.5	20.9	12 17	4 0.83	+11 59.0	1.617	2.539	9.8	21.2
12 27	3 51.72	+20 48.9	1.768	2.633	12.4	21.2	12 27	3 54.36	+12 1.6	1.676	2.531	13.6	21.4
1 6	3 47.51	+20 26.0	1.869	2.645	15.6	21.4	1 6	3 50.52	+12 16.7	1.756	2.522	16.8	21.6
5014	Gorchakov		11 28.3 109°10	0°6/28.0 18			257220	2009 <i>BB</i> ₁₇₉		11 28.3 201°97	0°5/28.5 18		
10 28	4 40.95	+20 2.1	2.633	3.480	9.8	17.7	10 28	4 48.07	+23 34.6	1.600	2.454	14.7	21.6
11 7	4 34.68	+19 49.6	2.576	3.498	7.0	17.5	11 7	4 40.77	+23 22.8	1.527	2.451	10.6	21.3
11 17	4 27.02	+19 34.5	2.546	3.515	3.8	17.3	11 17	4 30.76	+23 2.8	1.479	2.448	5.9	21.1
11 27	4 18.63	+19 17.9	2.546	3.532	0.7	17.1	11 27	4 19.14	+22 35.2	1.457	2.443	0.9	20.7
12 7	4 10.30	+19 1.3	2.577	3.548	3.1	17.3	12 7	4 7.35	+22 2.5	1.464	2.438	4.4	21.0
12 17	4 2.77	+18 46.6	2.638	3.565	6.2	17.5	12 17	3 56.87	+21 28.9	1.499	2.433	9.4	21.2
12 27	3 56.67	+18 35.9	2.727	3.581	9.0	17.8	12 27	3 48.88	+20 59.7	1.560	2.427	13.7	21.5
1 6	3 52.41	+18 30.5	2.840	3.596	11.3	17.9	1 6	3 44.07	+20 38.9	1.641	2.420	17.3	21.7
321277	2009 <i>EQ</i> ₉		11 28.3 20°92	0°4/28.2 18			221517	2006 <i>RB</i> ₄₆		11 28.3 288°76	4°2/26.9 18		
10 28	4 41.48	+21 57.2	1.193	2.074	16.8	20.1	10 28	4 43.86	+14 3.6	1.376	2.248	15.6	20.8
11 7	4 36.35	+21 35.4	1.145	2.082	12.0	19.8	11 7	4 37.97	+13 18.3	1.307	2.238	11.4	20.5
11 17	4 28.35	+21 6.5	1.119	2.093	6.5	19.5	11 17	4 29.32	+12 33.5	1.260	2.228	6.9	20.3
11 27	4 18.80	+20 33.0	1.117	2.104	0.8	19.2	11 27	4 18.97	+11 54.2	1.238	2.217	4.2	20.1
12 7	4 9.35	+19 59.1	1.141	2.116	5.1	19.5	12 7	4 8.39	+11 25.1	1.243	2.207	7.0	20.2
12 17	4 1.53	+19 29.7	1.189	2.130	10.4	19.9	12 17	3 59.06	+11 10.3	1.273	2.197	11.6	20.4
12 27	3 56.51	+19 9.5	1.260	2.145	15.0	20.2	12 27	3 52.24	+11 12.0	1.326	2.187	16.1	20.7
1 6	3 54.82	+19 0.7	1.350	2.160	18.8	20.5	1 6	3 48.64	+11 30.1	1.398	2.177	19.8	20.9
127098	2002 <i>GJ</i> ₈₄		11 28.3 148°78	2°3/27.4 18			435588	2008 <i>RR</i> ₁₃₉		11 28.3 80°23	1°0/28.7 16		
10 28	4 40.89	+14 22.3	2.413	3.264	10.5	20.3	10 28	4 47.88	+24 15.3	1.543	2.399	15.1	21.6
11 7	4 34.80	+14 6.8	2.347	3.269	7.5	20.2	11 7	4 40.36	+24 18.1	1.497	2.421	10.8	21.4
11 17	4 27.17	+13 52.6	2.308	3.274	4.4	20.0	11 17	4 30.35	+24 12.8	1.475	2.443	6.0	21.2
11 27	4 18.68	+13 41.3	2.298	3.278	2.3	19.8	11 27	4 19.07	+23 59.5	1.480	2.465	1.3	20.9
12 7	4 10.16	+13 34.6	2.318	3.282	4.2	20.0	12 7	4 7.99	+23 40.4	1.513	2.487	4.3	21.2
12 17	4 2.42	+13 34.0	2.368	3.286	7.2	20.2	12 17	3 58.46	+23 19.2	1.574	2.509	8.8	21.5
12 27	3 56.16	+13 40.6	2.444	3.290	10.2	20.4	12 27	3 51.51	+23 0.4	1.660	2.530	12.8	21.8
1 6	3 51.84	+13 54.9	2.544	3.294	12.6	20.6	1 6	3 47.63	+22 47.6	1.767	2.551	16.1	22.0
519861	2013 <i>NX</i> ₂₈		11 28.3 82°51	6°7/26.0 18			107234	2001 <i>BL</i> ₅₄		11 28.3 281°54	0°6/28.1 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
111520	2001 YM ₉₈		11 28.3 259°61	2°6/29.8	18		59846	1999 RA ₆₄		11 28.3 88°38	0°5/28.6	18	
10 28	4 40.46	+31 33.1	2.768	3.594	10.0	19.8	10 28	4 42.73	+23 26.7	2.076	2.926	12.0	19.5
11 7	4 34.60	+31 32.0	2.681	3.583	7.6	19.7	11 7	4 36.39	+23 24.1	2.014	2.936	8.6	19.3
11 17	4 27.13	+31 21.3	2.619	3.573	4.9	19.5	11 17	4 28.15	+23 15.8	1.977	2.945	4.7	19.1
11 27	4 18.71	+31 0.5	2.586	3.562	2.8	19.3	11 27	4 18.88	+23 2.3	1.969	2.955	0.8	18.9
12 7	4 10.17	+30 30.5	2.583	3.551	3.5	19.4	12 7	4 9.61	+22 45.2	1.990	2.965	3.5	19.1
12 17	4 2.34	+29 53.9	2.611	3.540	6.1	19.5	12 17	4 1.34	+22 27.2	2.041	2.974	7.3	19.3
12 27	3 55.97	+29 14.2	2.666	3.529	8.8	19.7	12 27	3 54.91	+22 11.2	2.118	2.983	10.7	19.6
1 6	3 51.55	+28 35.2	2.746	3.517	11.3	19.8	1 6	3 50.84	+22 0.1	2.219	2.993	13.5	19.8
19724	1999 VR ₁₁₄		11 28.3 334°28	2°3/29.5	18		47136	1999 EA ₃		11 28.3 305°91	6°0/30.8	18	
10 28	4 42.14	+29 43.2	2.047	2.888	12.5	17.8	10 28	4 45.03	+39 21.7	2.329	3.130	12.5	18.0
11 7	4 36.12	+29 28.6	1.973	2.886	9.2	17.6	11 7	4 38.40	+40 7.6	2.250	3.123	10.1	17.8
11 17	4 28.05	+29 2.5	1.923	2.885	5.6	17.4	11 17	4 29.45	+40 38.9	2.194	3.117	7.8	17.6
11 27	4 18.82	+28 24.9	1.902	2.883	2.6	17.2	11 27	4 19.05	+40 52.2	2.165	3.111	6.2	17.5
12 7	4 9.54	+27 38.0	1.909	2.881	3.9	17.3	12 7	4 8.38	+40 46.3	2.164	3.106	6.4	17.5
12 17	4 1.29	+26 46.0	1.945	2.880	7.5	17.5	12 17	3 58.66	+40 23.3	2.191	3.100	8.3	17.6
12 27	3 55.00	+25 54.1	2.008	2.878	10.9	17.7	12 27	3 50.96	+39 48.0	2.245	3.094	10.8	17.8
1 6	3 51.19	+25 7.0	2.094	2.877	13.9	17.9	1 6	3 45.95	+39 6.5	2.321	3.089	13.2	17.9
241836	2001 SN ₂₉₅		11 28.3 331°88	2°5/29.3	18		101535	1998 YQ ₁₃		11 28.3 87°89	0°3/28.5	18	
10 28	4 43.73	+28 34.8	1.824	2.671	13.5	20.3	10 28	4 48.27	+23 25.2	1.540	2.396	15.1	19.7
11 7	4 37.50	+28 41.2	1.752	2.669	10.0	20.1	11 7	4 40.59	+23 7.5	1.495	2.420	10.7	19.5
11 17	4 28.91	+28 36.9	1.704	2.667	6.1	19.9	11 17	4 30.47	+22 42.0	1.474	2.444	5.9	19.2
11 27	4 18.93	+28 21.1	1.684	2.665	2.7	19.6	11 27	4 19.17	+22 10.2	1.481	2.467	0.8	18.9
12 7	4 8.82	+27 55.1	1.691	2.663	4.3	19.8	12 7	4 8.14	+21 35.4	1.516	2.490	4.3	19.3
12 17	3 59.84	+27 22.4	1.727	2.662	8.2	20.0	12 17	3 58.69	+21 1.9	1.579	2.513	8.9	19.6
12 27	3 53.04	+26 48.2	1.788	2.660	12.0	20.2	12 27	3 51.81	+20 34.3	1.667	2.535	12.9	19.9
1 6	3 49.05	+26 17.2	1.872	2.659	15.2	20.4	1 6	3 47.95	+20 15.6	1.776	2.556	16.2	20.2
285148	1995 UL ₂₀		11 28.3 143°86	4°3/26.1	18		77429	2001 GL ₅		11 28.4 81°27	3°0/29.2	18	
10 28	4 43.19	+10 42.2	2.192	3.041	11.5	21.6	10 28	4 49.32	+27 42.9	1.768	2.609	14.1	18.3
11 7	4 36.43	+9 35.9	2.136	3.053	8.5	21.5	11 7	4 41.41	+28 29.3	1.717	2.630	10.4	18.1
11 17	4 28.05	+8 32.6	2.107	3.064	5.6	21.3	11 17	4 31.02	+29 6.2	1.691	2.651	6.3	17.9
11 27	4 18.83	+7 36.6	2.107	3.075	4.3	21.2	11 27	4 19.27	+29 30.9	1.693	2.672	3.2	17.8
12 7	4 9.71	+6 51.6	2.137	3.085	6.0	21.4	12 7	4 7.55	+29 43.0	1.724	2.693	4.7	17.9
12 17	4 1.52	+6 20.4	2.196	3.094	8.9	21.6	12 17	3 57.19	+29 44.7	1.783	2.714	8.4	18.2
12 27	3 55.01	+6 4.3	2.282	3.103	11.7	21.8	12 27	3 49.28	+29 40.4	1.869	2.734	11.9	18.5
1 6	3 50.60	+6 2.7	2.388	3.111	14.1	22.0	1 6	3 44.38	+29 34.9	1.977	2.754	14.8	18.7
298073	2002 QZ ₁₁₄		11 28.3 24°91	1°2/27.9	18		42003	2000 YJ ₄₈		11 28.4 74°10	2°1/27.7	18	
10 28	4 41.68	+20 29.0	1.392	2.266	15.3	20.5	10 28	4 44.37	+16 48.4	1.609	2.473	14.1	19.1
11 7	4 36.21	+19 53.9	1.340	2.274	10.9	20.3	11 7	4 37.87	+16 32.1	1.555	2.484	10.1	18.9
11 17	4 28.22	+19 13.5	1.310	2.282	5.9	20.0	11 17	4 29.08	+16 15.4	1.524	2.494	5.6	18.7
11 27	4 18.87	+18 30.9	1.306	2.292	1.3	19.8	11 27	4 19.05	+16 0.3	1.520	2.505	2.1	18.4
12 7	4 9.59	+17 50.6	1.329	2.302	5.0	20.0	12 7	4 9.05	+15 49.4	1.545	2.515	5.0	18.7
12 17	4 1.72	+17 17.1	1.377	2.313	9.8	20.4	12 17	4 0.32	+15 45.0	1.597	2.526	9.3	18.9
12 27	3 56.33	+16 54.3	1.450	2.324	14.1	20.6	12 27	3 53.83	+15 49.2	1.674	2.536	13.2	19.2
1 6	3 53.93	+16 44.0	1.542	2.336	17.6	20.9	1 6	3 50.14	+16 2.7	1.771	2.547	16.4	19.5
44711	Carp		11 28.3 208°07	2°6/29.4	18		80449	1999 YG ₁₇		11 28.4 181°44	0°3/28.5	18	
10 28	4 48.78	+29 29.1	1.931	2.765	13.4	19.0	10 28	4 46.59	+23 21.6	1.900	2.748	13.0	20.4
11 7	4 41.07	+29 27.2	1.849	2.759	10.0	18.8	11 7	4 39.36	+23 6.9	1.828	2.750	9.3	20.1
11 17	4 30.89	+29 13.4	1.791	2.751	6.1	18.5	11 17	4 29.90	+22 45.2	1.782	2.750	5.2	19.9
11 27	4 19.21	+28 46.4	1.762	2.743	2.8	18.3	11 27	4 19.15	+22 17.3	1.764	2.750	0.7	19.6
12 7	4 7.35	+28 7.6	1.763	2.734	4.3	18.4	12 7	4 8.34	+21 45.6	1.776	2.750	3.9	19.8
12 17	3 56.63	+27 21.1	1.793	2.724	8.3	18.6	12 17	3 58.64	+21 13.6	1.817	2.748	8.1	20.1
12 27	3 48.17	+26 33.0	1.850	2.713	12.1	18.8	12 27	3 51.05	+20 45.4	1.884	2.746	11.9	20.3
1 6	3 42.62	+25 48.8	1.930	2.702	15.3	19.0	1 6	3 46.15	+20 24.5	1.974	2.744	15.1	20.5
330945	2009 SX ₂₇₆		11 28.3 120°40	2°0/29.0	18		298667	2004 CZ ₆₁		11 28.4 17°38	7°9/27.0	18	
10 28	4 50.04	+26 40.6	1.755	2.597	14.2	21.3	10 28	4 41.71	+3 53.7	1.265	2.134	16.9	19.4
11 7	4 41.83	+26 53.5	1.700	2.616	10.3	21.1	11 7	4 36.31	+3 33.4	1.221	2.141	13.1	19.2
11 17	4 31.18	+26 56.9	1.670	2.634	6.0	20.9	11 17	4 28.34	+3 29.2	1.197	2.149	9.5	19.0
11 27	4 19.23	+26 49.6	1.668	2.651	2.2	20.7	11 27	4 18.97	+3 45.7	1.197	2.159	7.9	18.9
12 7	4 7.39	+26 32.9	1.695	2.668	4.2	20.9	12 7	4 9.63	+4 24.6	1.222	2.169	9.5	19.0
12 17	3 56.97	+26 10.5	1.752	2.684	8.3	21.1	12 17	4 1.71	+5 24.1	1.270	2.181	12.9	19.3
12 27	3 49.00	+25 47.1	1.835	2.699	12.1	21.4	12 27	3 56.29	+6 40.6	1.341	2.194	16.4	19.5
1 6	3 44.03	+25 27.3	1.940	2.714	15.2	21.6	1 6	3 53.92	+8 8.8	1.431	2.208	19.5	19.8
112715	2002 PW ₁₁₃		11 28.3 5°33	3°9/26.9	18		103505	2000 BW		11 28.4 278°88	14°3/5.6	18	
10 28	4 41.90	+12 41.4	1.669	2.534	13.7	19.2	10 28	4 58.86	+52 29.0	1.144	1.924	23.9	18.9
11 7	4 36.08	+12 4.9	1.607	2.534	10.0	19.0	11 7	4 50.77	+52 57.8	1.078	1.920	20.9	18.7
11 17	4 28.10	+11 31.2	1.569	2.534	6.1	18.8	11 17	4 37.04	+52 43.1	1.028	1.917	17.7	18.5
11 27	4 18.88	+11 4.0	1.557	2.534	3.9	18.6	11 27	4 20.03	+51 32.1	0.996	1.913	15.2	18.3
12 7	4 9.60	+10 46.8	1.574	2.535	6.2	18.8	12 7	4 3.24	+49 22.8	0.986	1.910	14.3	18.3
12 17	4 1.41	+10 41.8	1.617	2.536	10.0	19.0	12 17	3 49.91	+46 27.2	0.999	1.907	15.8	18.4
12 27	3 55.28	+10 50.4	1.684	2.537	13.6	19.2	12 27	3 41.94	+43 8.0	1.033	1.903	18.8	18.5
1 6	3 51.77	+11 11.9	1.772	2.538	16.7	19.5	1 6	3 39.68	+39 48.5	1.088	1.900	22.2	18.7
150817	2001 RN ₁₂₆		11 28.3 120°85	1°8/27.8	18		382348	2013 TC ₇₃		11 28.4 39°70	0°6/28.5	18	
10 28	4 46.30	+17 15.4	1.679	2.538	13.9								

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
199096	2005 YF ₂₄		11 28.4 170°11	1°2/27.9	18		222155	1999 XL ₂₂₆		11 28.4 330°70	0°9/28.1	17	
10 28	4 45.05	+18 52.7	1.811	2.668	13.2	21.2	10 28	4 40.54	+19 23.1	1.785	2.649	12.9	20.3
11 7	4 38.28	+18 36.7	1.744	2.670	9.4	21.0	11 7	4 35.28	+19 19.3	1.707	2.636	9.3	20.1
11 17	4 29.32	+18 18.0	1.702	2.672	5.2	20.7	11 17	4 27.80	+19 13.0	1.653	2.624	5.1	19.8
11 27	4 19.10	+17 58.1	1.688	2.674	1.3	20.5	11 27	4 18.96	+19 5.4	1.626	2.612	1.0	19.5
12 7	4 8.82	+17 39.4	1.703	2.675	4.4	20.7	12 7	4 9.87	+18 58.2	1.627	2.601	4.2	19.7
12 17	3 59.63	+17 24.8	1.747	2.676	8.6	20.9	12 17	4 1.71	+18 53.8	1.656	2.590	8.6	19.9
12 27	3 52.52	+17 16.9	1.816	2.676	12.4	21.2	12 27	3 55.50	+18 54.6	1.710	2.580	12.5	20.2
1 6	3 48.07	+17 17.6	1.907	2.676	15.6	21.4	1 6	3 51.90	+19 2.4	1.785	2.570	15.9	20.4
63599	2001 QN ₆₅		11 28.4 267°53	1°8/29.2	18		232613	2003 UX ₁₁₈		11 28.4 167°75	3°3/26.5	18	
10 28	4 43.36	+27 42.5	1.911	2.758	13.0	19.2	10 28	4 39.44	+12 41.5	2.472	3.325	10.2	20.5
11 7	4 37.15	+27 28.8	1.837	2.755	9.5	18.9	11 7	4 33.79	+11 46.3	2.406	3.326	7.4	20.4
11 17	4 28.73	+27 4.6	1.786	2.751	5.6	18.7	11 17	4 26.70	+10 52.2	2.366	3.328	4.7	20.2
11 27	4 19.03	+26 30.1	1.764	2.748	2.0	18.5	11 27	4 18.82	+10 2.6	2.356	3.330	3.3	20.1
12 7	4 9.24	+25 47.6	1.770	2.744	3.9	18.6	12 7	4 10.93	+9 20.7	2.376	3.331	4.9	20.2
12 17	4 0.53	+25 1.1	1.805	2.740	7.9	18.8	12 17	4 3.80	+8 49.1	2.425	3.332	7.7	20.4
12 27	3 53.88	+24 16.0	1.867	2.737	11.6	19.1	12 27	3 58.06	+8 29.4	2.501	3.333	10.4	20.6
1 6	3 49.87	+23 36.7	1.950	2.733	14.8	19.3	1 6	3 54.15	+8 22.0	2.599	3.333	12.8	20.7
487508	2014 TD ₁₃		11 28.4 88°18	0°9/28.9	18		217144	2002 LD ₄₈		11 28.4 110°97	2°7/29.5	18	
10 28	4 41.73	+25 52.8	2.287	3.132	11.2	21.1	10 28	4 50.55	+29 45.8	1.685	2.523	14.9	21.0
11 7	4 35.53	+25 32.2	2.227	3.145	8.1	20.9	11 7	4 42.23	+29 36.3	1.634	2.546	10.9	20.8
11 17	4 27.65	+25 3.9	2.192	3.158	4.6	20.7	11 17	4 31.42	+29 13.0	1.606	2.567	6.6	20.6
11 27	4 18.90	+24 29.1	2.186	3.171	1.2	20.5	11 27	4 19.39	+28 35.8	1.607	2.588	2.9	20.4
12 7	4 10.22	+23 50.0	2.210	3.184	3.2	20.7	12 7	4 7.60	+27 47.7	1.636	2.608	4.5	20.5
12 17	4 2.50	+23 10.0	2.264	3.197	6.7	20.9	12 17	3 57.41	+26 54.1	1.694	2.627	8.5	20.8
12 27	3 56.48	+22 32.8	2.346	3.210	9.8	21.1	12 27	3 49.82	+26 1.5	1.779	2.646	12.3	21.1
1 6	3 52.60	+22 1.3	2.451	3.223	12.4	21.3	1 6	3 45.33	+25 15.6	1.886	2.664	15.4	21.4
64311	2001 UQ ₃₂		11 28.4 20°54	1°6/28.1	18		466269	2013 MC ₅		11 28.4 71°73	4°1/27.2	16	
10 28	4 45.13	+16 55.0	1.242	2.118	16.6	18.6	10 28	4 47.97	+14 17.1	1.217	2.089	17.2	21.2
11 7	4 39.06	+17 13.0	1.188	2.122	11.9	18.3	11 7	4 40.63	+13 30.8	1.182	2.114	12.3	21.0
11 17	4 30.01	+17 32.4	1.155	2.127	6.6	18.1	11 17	4 30.60	+12 47.3	1.170	2.138	7.3	20.8
11 27	4 19.21	+17 53.5	1.148	2.133	1.7	17.8	11 27	4 19.28	+12 11.2	1.182	2.162	4.1	20.7
12 7	4 8.31	+18 16.7	1.166	2.140	5.4	18.0	12 7	4 8.33	+11 47.1	1.221	2.186	6.9	20.9
12 17	3 58.93	+18 43.0	1.210	2.147	10.7	18.3	12 17	3 59.21	+11 37.7	1.285	2.210	11.5	21.3
12 27	3 52.37	+19 13.9	1.277	2.156	15.3	18.6	12 27	3 52.94	+11 44.1	1.372	2.233	15.6	21.6
1 6	3 49.28	+19 50.2	1.363	2.164	19.1	18.9	1 6	3 49.97	+12 4.8	1.478	2.257	18.9	21.9
489094	2006 BC ₇₈		11 28.4 240°86	5°1/ 1.1	18		467721	2009 DJ ₁₇		11 28.4 110°18	14°4/23.6	18	
10 28	4 44.82	+39 7.4	2.531	3.328	11.7	21.6	10 28	4 46.25	-11 34.6	1.504	2.308	18.0	20.9
11 7	4 38.03	+39 20.0	2.443	3.318	9.4	21.5	11 7	4 39.08	-13 22.7	1.479	2.326	16.0	20.8
11 17	4 29.18	+39 17.7	2.380	3.307	7.0	21.3	11 17	4 29.67	-14 41.8	1.474	2.342	14.6	20.8
11 27	4 19.10	+38 58.1	2.343	3.296	5.3	21.2	11 27	4 19.18	-15 23.4	1.491	2.358	14.4	20.8
12 7	4 8.87	+38 21.6	2.336	3.285	5.5	21.2	12 7	4 8.92	-15 24.2	1.531	2.374	15.4	20.9
12 17	3 59.57	+37 31.0	2.358	3.273	7.5	21.3	12 17	4 0.09	-14 46.2	1.591	2.389	17.0	21.1
12 27	3 52.12	+36 31.6	2.408	3.262	10.0	21.4	12 27	3 53.62	-13 35.7	1.670	2.404	18.8	21.3
1 6	3 47.13	+35 29.3	2.481	3.249	12.4	21.6	1 6	3 49.96	-12 1.0	1.765	2.418	20.5	21.5
220714	2004 SR ₁₉		11 28.4 26°11	2°9/29.6	17		301678	2010 FO ₄₇		11 28.4 153°15	0°1/28.3	18	
10 28	4 42.73	+30 7.6	1.870	2.714	13.4	20.2	10 28	4 45.02	+21 40.3	2.058	2.906	12.1	21.8
11 7	4 36.73	+30 10.6	1.805	2.718	9.9	20.0	11 7	4 38.07	+21 31.8	1.991	2.913	8.7	21.6
11 17	4 28.50	+30 1.8	1.763	2.723	6.2	19.8	11 17	4 29.15	+21 18.7	1.951	2.920	4.7	21.4
11 27	4 19.01	+29 40.5	1.749	2.728	3.1	19.6	11 27	4 19.13	+21 1.8	1.939	2.926	0.6	21.1
12 7	4 9.49	+29 8.2	1.763	2.734	4.4	19.7	12 7	4 9.09	+20 42.8	1.958	2.931	3.6	21.3
12 17	4 1.13	+28 28.9	1.805	2.739	7.9	19.9	12 17	4 0.06	+20 24.4	2.006	2.936	7.6	21.6
12 27	3 54.89	+27 47.9	1.873	2.746	11.5	20.2	12 27	3 52.93	+20 9.7	2.080	2.941	11.1	21.8
1 6	3 51.34	+27 10.0	1.963	2.752	14.5	20.4	1 6	3 48.23	+20 1.0	2.178	2.944	14.0	22.0
458130	2010 ES ₁₆₄		11 28.4 337°84	2°8/27.2	16		352885	2008 YJ ₁₃		11 28.4 303°19	7°3/26.6	18	
10 28	4 39.30	+14 48.1	1.913	2.777	12.2	20.9	10 28	4 43.60	+3 49.1	1.586	2.439	14.9	19.7
11 7	4 34.14	+14 18.7	1.841	2.769	8.8	20.6	11 7	4 37.66	+3 27.6	1.507	2.419	11.7	19.4
11 17	4 27.06	+13 49.9	1.794	2.762	5.2	20.4	11 17	4 29.22	+3 19.0	1.451	2.399	8.6	19.2
11 27	4 18.85	+13 24.6	1.775	2.755	2.8	20.2	11 27	4 19.17	+3 28.1	1.421	2.380	7.3	19.1
12 7	4 10.52	+13 5.6	1.783	2.749	5.1	20.4	12 7	4 8.74	+3 57.6	1.417	2.361	8.9	19.1
12 17	4 3.06	+12 55.4	1.820	2.743	8.7	20.6	12 17	3 59.25	+4 47.9	1.439	2.342	12.3	19.3
12 27	3 57.37	+12 55.7	1.882	2.738	12.2	20.8	12 27	3 51.87	+5 56.8	1.485	2.323	15.9	19.5
1 6	3 54.00	+13 6.9	1.965	2.733	15.2	21.0	1 6	3 47.36	+7 20.5	1.550	2.304	19.2	19.6
389052	2008 VH ₅₁		11 28.4 113°61	0°7/28.6	18		337954	2002 AH ₇₃		11 28.4 8°84	1°8/28.8	18	
10 28	4 46.70	+23 10.6	1.796	2.647	13.5	20.5	10 28	4 42.68	+24 52.9	1.126	2.006	17.7	20.2
11 7	4 39.48	+23 21.0	1.737	2.659	9.7	20.3	11 7	4 37.68	+25 8.7	1.072	2.007	12.9	19.9
11 17	4 29.97	+23 25.6	1.703	2.671	5.4	20.0	11 17	4 29.40	+25 15.0	1.038	2.009	7.4	19.6
11 27	4 19.20	+23 24.1	1.696	2.682	1.0	19.7	11 27	4 19.18	+25 10.8	1.028	2.013	2.2	19.3
12 7	4 8.43	+23 17.6	1.719	2.693	3.9	20.0	12 7	4 8.84	+24 57.8	1.042	2.018	5.3	19.5
12 17	3 58.88	+23 8.6	1.771	2.704	8.2	20.3	12 17	4 0.19	+24 40.2	1.081	2.025	10.8	19.9
12 27	3 51.55	+23 0.7	1.849	2.715	11.9	20.5	12 27	3 54.62	+24 24.1	1.141	2.033	15.7	20.2
1 6	3 46.99	+22 56.9	1.948	2.725	15.1	20.8	1 6	3 52.80	+24 13.8	1.220	2.041	19.7	20.5
367856	2011 CK ₄₄		11 28.4 111°01	0°6/28.7	18		340163	2005 YO ₁₃₃		11 28.4 59°99	4°2/30.1	18	
10 28	4 41.13	+24 53.3	2.442</										

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
139601	2001 QY ₁₂₄		11 28.4	21°91'	2°7/29.2	18	418449	2008 QR ₄₆		11 28.4	60°54'	7°4/	2.5 17
10 28	4 43.80	+27 13.3	1.464	2.325	15.5	18.9	10 28	4 47.02	+44 45.3	2.208	2.985	13.8	21.0
11 7	4 37.93	+27 37.0	1.408	2.332	11.3	18.7	11 7	4 39.88	+45 16.0	2.145	2.996	11.5	20.8
11 17	4 29.34	+27 50.4	1.374	2.339	6.8	18.4	11 17	4 30.29	+45 26.6	2.105	3.007	9.3	20.7
11 27	4 19.18	+27 52.1	1.365	2.348	2.9	18.2	11 27	4 19.33	+45 13.6	2.090	3.018	7.7	20.6
12 7	4 8.95	+27 42.8	1.384	2.357	4.8	18.4	12 7	4 8.38	+44 37.2	2.102	3.029	7.6	20.7
12 17	4 0.15	+27 26.0	1.429	2.367	9.2	18.7	12 17	3 58.78	+43 41.2	2.141	3.040	9.0	20.8
12 27	3 53.94	+27 7.0	1.498	2.378	13.3	18.9	12 27	3 51.56	+42 32.3	2.206	3.051	11.1	20.9
1 6	3 50.94	+26 50.5	1.588	2.390	16.8	19.2	1 6	3 47.30	+41 18.3	2.294	3.063	13.3	21.1
348377	2005 GA ₂		11 28.4	211°64'	1°4/27.9	18	320351	2007 TQ ₁₉₂		11 28.4	60°95'	1°9/27.7	18
10 28	4 45.23	+16 39.9	2.202	3.050	11.5	21.1	10 28	4 46.00	+20 2.5	1.209	2.084	17.1	20.8
11 7	4 38.24	+16 48.7	2.123	3.044	8.2	20.9	11 7	4 39.64	+19 12.7	1.156	2.091	12.2	20.5
11 17	4 29.31	+16 57.8	2.070	3.038	4.6	20.7	11 17	4 30.31	+18 16.5	1.125	2.098	6.7	20.3
11 27	4 19.19	+17 7.7	2.046	3.031	1.4	20.5	11 27	4 19.35	+17 18.3	1.120	2.105	2.0	20.0
12 7	4 8.88	+17 19.2	2.053	3.023	3.9	20.6	12 7	4 8.47	+16 24.2	1.140	2.112	5.8	20.3
12 17	3 59.37	+17 33.4	2.090	3.015	7.6	20.8	12 17	3 59.30	+15 40.3	1.186	2.120	11.2	20.6
12 27	3 51.56	+17 51.5	2.154	3.007	11.1	21.0	12 27	3 53.04	+15 11.2	1.254	2.128	15.9	20.9
1 6	3 46.05	+18 14.5	2.242	2.998	13.9	21.2	1 6	3 50.25	+14 58.6	1.341	2.135	19.7	21.2
118451	1999 VX ₁₂₄		11 28.4	75°96'	0°6/28.2	18	139592	2001 QK ₁₁₄		11 28.4	133°90'	1°7/27.6	18
10 28	4 41.64	+20 15.4	2.111	2.966	11.6	20.0	10 28	4 43.04	+17 37.2	2.381	3.229	10.7	21.2
11 7	4 35.65	+20 5.4	2.046	2.971	8.3	19.8	11 7	4 36.35	+17 2.0	2.322	3.244	7.6	21.0
11 17	4 27.83	+19 52.1	2.006	2.976	4.5	19.6	11 17	4 28.11	+16 25.1	2.290	3.258	4.2	20.8
11 27	4 19.01	+19 36.8	1.995	2.981	0.7	19.3	11 27	4 19.08	+15 48.7	2.288	3.271	1.7	20.7
12 7	4 10.14	+19 21.2	2.014	2.987	3.6	19.5	12 7	4 10.12	+15 15.4	2.316	3.284	3.8	20.9
12 17	4 2.20	+19 7.7	2.061	2.992	7.4	19.8	12 17	4 2.05	+14 47.7	2.375	3.296	7.1	21.1
12 27	3 55.99	+18 58.8	2.135	2.997	10.7	20.0	12 27	3 55.57	+14 27.9	2.461	3.308	10.1	21.3
1 6	3 52.03	+18 56.2	2.232	3.003	13.6	20.2	1 6	3 51.11	+14 17.1	2.571	3.319	12.5	21.5
158578	2002 KQ		11 28.4	136°12'	0°0/28.3	18	248841	2006 TG ₄		11 28.4	86°43'	1°2/28.9	18
10 28	4 41.23	+23 40.1	2.385	3.232	10.7	19.8	10 28	4 44.76	+25 44.6	1.901	2.749	13.0	21.0
11 7	4 35.16	+23 2.5	2.316	3.237	7.7	19.6	11 7	4 37.98	+25 38.3	1.846	2.765	9.4	20.8
11 17	4 27.48	+22 18.5	2.274	3.243	4.2	19.4	11 17	4 29.14	+25 23.7	1.815	2.781	5.3	20.6
11 27	4 18.96	+21 29.8	2.261	3.248	0.5	19.1	11 27	4 19.21	+25 1.1	1.812	2.797	1.5	20.3
12 7	4 10.46	+20 39.3	2.279	3.252	3.2	19.4	12 7	4 9.37	+24 32.8	1.839	2.813	3.7	20.5
12 17	4 2.84	+19 50.6	2.327	3.257	6.7	19.6	12 17	4 0.71	+24 2.2	1.894	2.828	7.7	20.8
12 27	3 56.80	+19 7.2	2.402	3.262	9.8	19.8	12 27	3 54.14	+23 33.5	1.976	2.844	11.2	21.0
1 6	3 52.81	+18 31.7	2.501	3.266	12.4	20.0	1 6	3 50.16	+23 10.2	2.080	2.859	14.1	21.3
18780	Kuncham		11 28.4	51°36'	1°2/28.7	18	195904	2002 RB ₄₈		11 28.4	117°55'	3°3/30.1	18
10 28	4 48.06	+23 24.4	1.168	2.040	17.8	17.7	10 28	4 43.76	+33 10.5	2.676	3.494	10.6	20.8
11 7	4 41.30	+23 43.9	1.120	2.052	12.8	17.5	11 7	4 36.98	+33 26.6	2.612	3.507	8.1	20.7
11 17	4 31.28	+23 55.7	1.094	2.064	7.2	17.2	11 17	4 28.52	+33 32.3	2.574	3.521	5.4	20.5
11 27	4 19.43	+23 58.8	1.092	2.077	1.6	16.9	11 27	4 19.14	+33 26.4	2.564	3.534	3.4	20.4
12 7	4 7.64	+23 54.3	1.115	2.091	5.1	17.2	12 7	4 9.77	+33 9.4	2.585	3.547	4.0	20.5
12 17	3 57.70	+23 46.1	1.164	2.105	10.6	17.5	12 17	4 1.26	+32 43.8	2.635	3.560	6.3	20.6
12 27	3 50.93	+23 39.2	1.236	2.119	15.4	17.8	12 27	3 54.39	+32 13.2	2.714	3.572	8.9	20.8
1 6	3 47.94	+23 37.9	1.327	2.133	19.3	18.1	1 6	3 49.62	+31 41.7	2.817	3.584	11.1	21.0
232326	2002 TV ₁₅₀		11 28.4	322°79'	1°2/27.8	17	148489	2001 KD ₂₇		11 28.4	97°47'	0°1/28.4	18
10 28	4 39.41	+19 24.1	2.075	2.935	11.6	20.0	10 28	4 48.80	+22 20.6	1.616	2.469	14.6	20.3
11 7	4 34.18	+18 55.9	1.997	2.924	8.3	19.8	11 7	4 40.98	+22 12.4	1.569	2.493	10.4	20.1
11 17	4 27.10	+18 24.1	1.944	2.915	4.6	19.6	11 17	4 30.80	+21 58.1	1.546	2.515	5.7	19.9
11 27	4 18.93	+17 51.0	1.920	2.905	1.2	19.3	11 27	4 19.42	+21 38.5	1.551	2.537	0.7	19.6
12 7	4 10.63	+17 19.2	1.924	2.896	4.0	19.5	12 7	4 8.25	+21 16.0	1.585	2.559	4.2	19.9
12 17	4 3.16	+16 51.7	1.957	2.887	7.8	19.7	12 17	3 58.57	+20 54.3	1.647	2.580	8.7	20.2
12 27	3 57.36	+16 31.6	2.017	2.878	11.3	19.9	12 27	3 51.36	+20 37.1	1.735	2.601	12.6	20.5
1 6	3 53.79	+16 20.6	2.098	2.870	14.2	20.1	1 6	3 47.11	+20 27.4	1.845	2.621	15.8	20.8
352301	2007 TV ₄₄₄		11 28.4	21°71'	1°9/27.8	18	120418	6633 P-L		11 28.4	20°04'	2°3/27.6	18
10 28	4 42.73	+17 28.7	1.439	2.310	15.0	20.4	10 28	4 40.77	+16 57.4	1.541	2.413	14.2	19.3
11 7	4 37.02	+17 15.2	1.382	2.315	10.7	20.2	11 7	4 35.46	+16 31.9	1.487	2.420	10.1	19.0
11 17	4 28.79	+17 0.8	1.349	2.321	6.0	19.9	11 17	4 27.89	+16 5.7	1.457	2.427	5.7	18.8
11 27	4 19.13	+16 47.6	1.342	2.327	2.0	19.7	11 27	4 19.07	+15 41.5	1.452	2.436	2.3	18.6
12 7	4 9.45	+16 38.1	1.361	2.333	5.2	19.9	12 7	4 10.27	+15 22.7	1.475	2.445	5.1	18.8
12 17	4 1.09	+16 35.1	1.407	2.341	9.8	20.2	12 17	4 2.69	+15 11.9	1.524	2.455	9.4	19.1
12 27	3 55.13	+16 40.8	1.477	2.348	14.0	20.5	12 27	3 57.29	+15 11.3	1.597	2.466	13.3	19.4
1 6	3 52.16	+16 56.0	1.566	2.357	17.5	20.8	1 6	3 54.63	+15 21.4	1.691	2.477	16.6	19.6
130402	2000 OP ₆		11 28.4	66°91'	0°0/28.4	18	247282	2001 SK ₁₈₁		11 28.4	69°44'	8°5/2.2	17
10 28	4 47.88	+24 20.9	1.184	2.054	17.7	18.9	10 28	4 49.82	+44 20.8	1.881	2.667	15.6	20.4
11 7	4 40.89	+23 38.3	1.140	2.072	12.6	18.6	11 7	4 42.35	+45 9.0	1.818	2.674	13.0	20.2
11 17	4 30.88	+22 44.5	1.118	2.090	6.9	18.4	11 17	4 31.86	+45 35.2	1.776	2.681	10.5	20.1
11 27	4 19.38	+21 42.6	1.121	2.108	0.9	18.0	11 27	4 19.58	+45 34.1	1.759	2.688	8.8	20.0
12 7	4 8.19	+20 38.9	1.151	2.126	5.1	18.4	12 7	4 7.21	+45 5.0	1.768	2.695	8.7	20.0
12 17	3 58.95	+19 40.5	1.206	2.144	10.6	18.7	12 17	3 56.38	+44 11.8	1.803	2.702	10.4	20.1
12 27	3 52.80	+18 54.0	1.284	2.163	15.2	19.1	12 27	3 48.41	+43 2.8	1.862	2.710	12.8	20.3
1 6	3 50.18	+18 22.6	1.382	2.181	19.0	19.4	1 6	3 43.94	+41 47.3	1.944	2.717	15.2	20.5
255184	2005 UR ₂₅₆		11 28.4	261°86'	1°1/28.8	18	492591	2014 OH ₁₉₄		11 28.4	49°88'	4°4/26.7	17
10 28	4 43.54	+24 24.2	2.023	2.									

EPHEMERIDES

11 28.4

11 28.4

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
472035	2013 YL ₂₉		11 28.4	25°15	0°2/28.5	18	167154	2003 SC ₂₁₈		11 28.4	134°33	4°7/26.1	18
10 28	4 42.83	+23 17.4	0.953	1.843	19.2	20.4	10 28	4 42.80	+10 55.8	1.952	2.807	12.4	20.0
11 7	4 37.86	+22 57.8	0.914	1.855	13.8	20.1	11 7	4 36.45	+9 44.3	1.896	2.815	9.2	19.8
11 17	4 29.47	+22 28.3	0.894	1.868	7.6	19.9	11 17	4 28.29	+8 35.8	1.865	2.824	6.1	19.7
11 27	4 19.28	+21 51.4	0.897	1.884	1.0	19.5	11 27	4 19.18	+7 35.3	1.863	2.831	4.7	19.6
12 7	4 9.31	+21 12.3	0.923	1.900	5.5	19.9	12 7	4 10.13	+6 47.2	1.890	2.839	6.5	19.7
12 17	4 1.37	+20 37.3	0.973	1.918	11.5	20.3	12 17	4 2.09	+6 14.6	1.945	2.846	9.6	19.9
12 27	3 56.75	+20 12.1	1.043	1.937	16.5	20.6	12 27	3 55.87	+5 59.0	2.025	2.853	12.7	20.2
1 6	3 55.93	+19 59.8	1.131	1.957	20.6	20.9	1 6	3 51.92	+5 59.5	2.126	2.859	15.3	20.4
212176	Fabriziospaziani		11 28.4	222°00	6°5/1.5	18	161823	2006 WG ₁₀₄		11 28.4	106°47	0°5/28.3	18
10 28	4 48.93	+41 43.0	2.235	3.023	13.4	20.9	10 28	4 43.56	+20 1.3	1.961	2.816	12.4	20.6
11 7	4 41.33	+42 5.9	2.151	3.014	10.9	20.7	11 7	4 37.21	+20 4.5	1.893	2.818	8.8	20.4
11 17	4 31.19	+42 10.6	2.089	3.006	8.5	20.6	11 17	4 28.83	+20 5.1	1.851	2.821	4.8	20.2
11 27	4 19.52	+41 53.3	2.054	2.997	6.7	20.5	11 27	4 19.26	+20 3.4	1.837	2.823	0.7	19.9
12 7	4 7.66	+41 13.9	2.047	2.987	6.8	20.4	12 7	4 9.60	+20 0.9	1.852	2.825	3.8	20.1
12 17	3 56.96	+40 15.6	2.069	2.977	8.7	20.5	12 17	4 0.91	+19 59.3	1.896	2.828	7.8	20.4
12 27	3 48.57	+39 5.2	2.117	2.967	11.3	20.7	12 27	3 54.11	+20 1.1	1.966	2.830	11.4	20.6
1 6	3 43.15	+37 50.5	2.189	2.956	13.9	20.8	1 6	3 49.78	+20 8.1	2.059	2.832	14.4	20.8
114616	2003 DK ₁₉		11 28.4	329°35	3°6/27.2	18	224223	2005 SJ ₅₃		11 28.4	102°00	0°6/28.2	18
10 28	4 41.82	+12 18.9	1.857	2.717	12.7	20.0	10 28	4 46.58	+21 27.2	1.563	2.423	14.7	20.8
11 7	4 35.99	+11 56.2	1.790	2.714	9.3	19.8	11 7	4 39.57	+21 0.2	1.509	2.436	10.5	20.6
11 17	4 28.15	+11 36.8	1.747	2.712	5.7	19.5	11 17	4 30.13	+20 27.4	1.478	2.449	5.7	20.4
11 27	4 19.14	+11 23.6	1.732	2.710	3.6	19.4	11 27	4 19.41	+19 50.6	1.475	2.461	0.9	20.0
12 7	4 10.03	+11 18.9	1.745	2.707	5.6	19.5	12 7	4 8.80	+19 13.5	1.500	2.474	4.5	20.3
12 17	4 1.86	+11 24.4	1.786	2.705	9.2	19.7	12 17	3 59.60	+18 40.3	1.553	2.486	9.1	20.6
12 27	3 55.55	+11 41.1	1.853	2.703	12.7	19.9	12 27	3 52.83	+18 15.2	1.631	2.498	13.2	20.9
1 6	3 51.67	+12 8.3	1.940	2.702	15.6	20.2	1 6	3 49.02	+18 0.6	1.730	2.509	16.5	21.2
482556	2012 VG ₅₂		11 28.4	337°71	3°3/27.5	18	47247	1999 VQ ₅₆		11 28.4	137°52	1°3/28.8	18
10 28	4 40.66	+15 12.5	1.239	2.122	16.2	20.4	10 28	4 49.60	+24 29.0	1.705	2.552	14.3	20.0
11 7	4 36.09	+14 51.4	1.170	2.107	11.8	20.1	11 7	4 41.75	+24 43.7	1.644	2.563	10.3	19.8
11 17	4 28.59	+14 31.5	1.122	2.093	6.9	19.8	11 17	4 31.38	+24 51.2	1.608	2.574	5.9	19.5
11 27	4 19.22	+14 16.4	1.098	2.080	3.3	19.5	11 27	4 19.58	+24 50.2	1.599	2.584	1.6	19.3
12 7	4 9.51	+14 9.7	1.098	2.069	6.5	19.7	12 7	4 7.76	+24 42.0	1.620	2.594	4.2	19.5
12 17	4 1.04	+14 14.3	1.124	2.058	11.6	19.9	12 17	3 57.27	+24 29.3	1.670	2.603	8.6	19.8
12 27	3 55.20	+14 32.1	1.171	2.049	16.4	20.2	12 27	3 49.22	+24 16.5	1.745	2.611	12.5	20.0
1 6	3 52.75	+15 3.1	1.236	2.041	20.5	20.4	1 6	3 44.20	+24 7.4	1.843	2.619	15.8	20.3
268639	2006 DE ₁₁₄		11 28.4	351°55	25°6/16.1	17	42480	1985 RJ		11 28.4	91°82	5°5/26.1	18
10 28	4 42.20	-22 2.3	0.915	1.721	26.8	19.8	10 28	4 44.30	+7 37.1	1.939	2.787	12.8	19.1
11 7	4 37.50	-25 4.5	0.895	1.717	25.8	19.7	11 7	4 37.33	+6 35.4	1.902	2.815	9.6	19.0
11 17	4 29.37	-27 13.3	0.889	1.714	25.6	19.7	11 17	4 28.67	+5 41.1	1.891	2.842	6.7	18.9
11 27	4 19.31	-28 13.2	0.896	1.711	26.0	19.7	11 27	4 19.22	+4 58.5	1.908	2.869	5.5	18.8
12 7	4 9.26	-27 59.2	0.915	1.710	26.9	19.8	12 7	4 10.01	+4 31.1	1.954	2.895	7.0	19.0
12 17	4 1.07	-26 35.4	0.945	1.709	28.2	19.9	12 17	4 1.93	+4 20.3	2.028	2.921	9.8	19.2
12 27	3 56.12	-24 13.6	0.985	1.709	29.7	20.0	12 27	3 55.71	+4 25.9	2.127	2.946	12.5	19.4
1 6	3 55.02	-21 9.7	1.035	1.710	31.1	20.2	1 6	3 51.76	+4 46.0	2.246	2.970	14.8	19.6
67986	2000 XJ ₁₇		11 28.4	34°55	5°1/29.9	18	409683	2006 AJ ₄₈		11 28.4	326°10	5°3/26.4	17
10 28	4 47.28	+31 20.9	1.046	1.914	19.7	17.9	10 28	4 39.95	+7 46.4	1.912	2.769	12.5	20.5
11 7	4 41.21	+31 47.7	1.002	1.926	14.8	17.7	11 7	4 34.64	+7 8.7	1.843	2.761	9.5	20.3
11 17	4 31.42	+31 55.4	0.977	1.939	9.5	17.4	11 17	4 27.42	+6 37.7	1.798	2.753	6.6	20.1
11 27	4 19.55	+31 40.6	0.975	1.953	5.4	17.2	11 27	4 19.10	+6 17.2	1.780	2.746	5.3	20.0
12 7	4 7.83	+31 5.5	0.997	1.968	6.7	17.4	12 7	4 10.64	+6 10.3	1.791	2.739	6.9	20.1
12 17	3 58.27	+30 17.4	1.042	1.984	11.4	17.7	12 17	4 3.04	+6 18.6	1.828	2.732	10.0	20.2
12 27	3 52.34	+29 26.2	1.110	2.001	16.1	18.0	12 27	3 57.16	+6 42.2	1.889	2.725	13.1	20.4
1 6	3 50.55	+28 40.2	1.196	2.018	20.0	18.3	1 6	3 53.57	+7 19.4	1.971	2.719	15.8	20.6
486447	2013 GF ₂		11 28.4	239°45	2°9/29.5	17	294598	2008 AH ₂		11 28.4	299°30	8°7/24.4	17
10 28	4 45.26	+29 47.7	2.219	3.051	12.0	21.8	10 28	4 40.43	+0 30.5	1.806	2.650	13.8	20.1
11 7	4 38.51	+30 7.9	2.133	3.040	9.0	21.6	11 7	4 35.16	-0 42.3	1.730	2.628	11.3	19.9
11 17	4 29.61	+30 18.8	2.072	3.029	5.7	21.3	11 17	4 27.81	-1 43.8	1.678	2.607	9.3	19.7
11 27	4 19.35	+30 18.6	2.040	3.018	3.0	21.2	11 27	4 19.16	-2 27.0	1.651	2.586	8.8	19.6
12 7	4 8.84	+30 7.4	2.038	3.007	4.2	21.2	12 7	4 10.26	-2 46.9	1.651	2.565	10.3	19.7
12 17	3 59.19	+29 47.5	2.065	2.995	7.4	21.4	12 17	4 2.18	-2 41.2	1.675	2.543	12.9	19.8
12 27	3 51.40	+29 23.0	2.119	2.982	10.8	21.6	12 27	3 55.88	-2 10.5	1.721	2.523	15.7	19.9
1 6	3 46.12	+28 58.3	2.197	2.970	13.7	21.8	1 6	3 52.02	-1 18.4	1.786	2.502	18.4	20.1
487168	2014 OY ₂₆₂		11 28.4	218°50	5°2/26.6	18	511902	2015 HH ₃₉		11 28.4	192°54	0°8/28.2	18
10 28	4 42.74	+5 26.8	2.227	3.068	11.6	21.5	10 28	4 47.74	+19 6.1	1.971	2.819	12.6	22.3
11 7	4 36.38	+5 7.7	2.155	3.063	8.9	21.3	11 7	4 40.24	+19 9.7	1.896	2.817	9.1	22.0
11 17	4 28.29	+4 56.7	2.109	3.057	6.4	21.1	11 17	4 30.53	+19 11.2	1.846	2.815	5.0	21.8
11 27	4 19.18	+4 56.7	2.091	3.050	5.2	21.1	11 27	4 19.50	+19 11.0	1.826	2.812	0.9	21.5
12 7	4 9.95	+5 9.6	2.102	3.044	6.5	21.1	12 7	4 8.30	+19 10.1	1.835	2.808	4.0	21.7
12 17	4 1.50	+5 35.9	2.141	3.037	9.2	21.3	12 17	3 58.08	+19 10.4	1.875	2.803	8.2	22.0
12 27	3 54.60	+6 15.0	2.207	3.030	12.0	21.4	12 27	3 49.85	+19 14.3	1.941	2.798	11.9	22.2
1 6	3 49.80	+7 5.1	2.295	3.022	14.4	21.6	1 6	3 44.24	+19 23.7	2.030	2.791	15.0	22.4
373952	2003 WK ₄₈		11 28.4	11°36	2°7/28.0	18	226686	2004 HZ ₅₇		11 28.4	341°30	2°3/28.9	18
10 28	4 45.30	+14 57.1	1.082	1.964	18.0	20.6	10						

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
91874	1999 <i>UW</i> ₄₃		11 28.4 129°31'	2°0'/29.4 18			456035	2005 <i>YX</i> ₁₄₀		11 28.4 325°68'	1°3'/28.0 17		
10 28	4 43.17	+28 31.6	2.306	3.143	11.4	19.5	10 28	4 41.66	+17 51.8	1.844	2.705	12.7	21.1
11 7	4 36.75	+28 30.4	2.238	3.150	8.4	19.3	11 7	4 36.07	+17 50.3	1.768	2.696	9.1	20.9
11 17	4 28.51	+28 20.2	2.195	3.156	5.1	19.1	11 17	4 28.33	+17 47.9	1.716	2.687	5.1	20.6
11 27	4 19.26	+28 0.7	2.180	3.162	2.2	18.9	11 27	4 19.28	+17 45.9	1.692	2.678	1.4	20.4
12 7	4 9.99	+27 33.4	2.196	3.168	3.5	19.0	12 7	4 10.01	+17 45.6	1.697	2.669	4.3	20.6
12 17	4 1.64	+27 1.3	2.241	3.174	6.8	19.3	12 17	4 1.65	+17 49.0	1.729	2.661	8.5	20.8
12 27	3 55.05	+26 28.1	2.314	3.179	9.9	19.5	12 27	3 55.19	+17 57.9	1.787	2.653	12.3	21.0
1 6	3 50.71	+25 57.7	2.410	3.184	12.6	19.7	1 6	3 51.27	+18 13.8	1.867	2.646	15.5	21.2
386017	2007 <i>DV</i> ₆₆		11 28.4 329°14'	0°7'/28.6 18			161324	2003 <i>QE</i> ₄₁		11 28.4 96°56'	0°9'/28.8 18		
10 28	4 42.78	+22 39.7	1.167	2.046	17.2	20.8	10 28	4 46.99	+24 38.8	1.816	2.664	13.5	20.5
11 7	4 38.04	+22 49.3	1.093	2.029	12.6	20.5	11 7	4 39.64	+24 34.4	1.765	2.685	9.7	20.3
11 17	4 29.89	+22 52.6	1.040	2.012	7.1	20.1	11 17	4 30.13	+24 22.3	1.738	2.705	5.4	20.1
11 27	4 19.48	+22 48.9	1.010	1.996	1.2	19.7	11 27	4 19.50	+24 2.9	1.739	2.725	1.2	19.9
12 7	4 8.54	+22 39.8	1.005	1.981	5.3	19.9	12 7	4 9.00	+23 38.4	1.770	2.744	3.8	20.1
12 17	3 58.95	+22 28.9	1.024	1.968	11.3	20.2	12 17	3 59.80	+23 12.2	1.830	2.763	7.9	20.4
12 27	3 52.36	+22 21.2	1.065	1.955	16.7	20.5	12 27	3 52.83	+22 48.4	1.916	2.782	11.6	20.6
1 6	3 49.66	+22 21.1	1.124	1.944	21.2	20.7	1 6	3 48.56	+22 30.3	2.024	2.800	14.6	20.9
322461	2011 <i>UA</i> ₅₆		11 28.4 144°04'	0°3'/28.6 18			248438	2005 <i>TS</i> ₃₆		11 28.4 55°31'	4°2'/29.7 18		
10 28	4 43.69	+23 35.9	1.941	2.793	12.6	20.9	10 28	4 46.77	+31 18.7	1.881	2.715	13.7	20.2
11 7	4 37.33	+23 17.3	1.874	2.796	9.1	20.7	11 7	4 39.85	+32 6.1	1.817	2.723	10.4	20.0
11 17	4 28.90	+22 51.9	1.831	2.799	5.0	20.5	11 17	4 30.44	+32 42.3	1.778	2.730	6.9	19.8
11 27	4 19.32	+22 20.6	1.816	2.802	0.7	20.2	11 27	4 19.56	+33 4.2	1.766	2.738	4.3	19.7
12 7	4 9.70	+21 46.1	1.830	2.805	3.7	20.4	12 7	4 8.51	+33 10.9	1.782	2.746	5.2	19.8
12 17	4 1.13	+21 11.9	1.874	2.807	7.8	20.7	12 17	3 58.63	+33 4.6	1.826	2.754	8.4	20.0
12 27	3 54.53	+20 42.0	1.944	2.809	11.4	20.9	12 27	3 51.02	+32 50.1	1.897	2.762	11.7	20.2
1 6	3 50.44	+20 19.3	2.036	2.812	14.5	21.1	1 6	3 46.34	+32 32.8	1.990	2.771	14.6	20.4
152	<i>Atala</i>		11 28.4 333°20'	2°9'/29.3 18 R			42928	1999 <i>TX</i> ₇		11 28.4 84°07'	14°1'/23.5 16		
10 28	4 43.87	+28 33.2	2.089	2.929	12.3	13.0	10 28	4 45.83	-9 55.9	1.458	2.272	18.0	18.9
11 7	4 37.62	+29 10.6	2.013	2.925	9.2	12.8	11 7	4 38.81	-11 59.2	1.441	2.296	15.8	18.9
11 17	4 29.17	+29 40.2	1.961	2.920	5.8	12.6	11 17	4 29.61	-13 33.2	1.444	2.320	14.4	18.8
11 27	4 19.37	+29 59.7	1.937	2.916	3.0	12.4	11 27	4 19.42	-14 29.3	1.471	2.344	14.2	18.9
12 7	4 9.31	+30 8.7	1.943	2.912	4.3	12.5	12 7	4 9.56	-14 44.2	1.519	2.367	15.2	19.0
12 17	4 0.15	+30 8.6	1.977	2.908	7.6	12.7	12 17	4 1.18	-14 20.0	1.588	2.390	16.8	19.2
12 27	3 52.90	+30 3.0	2.038	2.905	11.0	12.9	12 27	3 55.16	-13 22.7	1.676	2.413	18.6	19.4
1 6	3 48.20	+29 55.7	2.122	2.901	13.9	13.1	1 6	3 51.91	-12 1.0	1.779	2.435	20.3	19.6
219107	1998 <i>SH</i> ₄₇		11 28.4 12°48'	1°1'/28.9 17			449369	2013 <i>GY</i> ₈₇		11 28.4 250°31'	2°3'/28.9 17		
10 28	4 42.12	+25 7.9	2.047	2.898	12.1	20.7	10 28	4 48.30	+25 57.0	2.205	3.040	11.9	21.6
11 7	4 36.21	+25 8.1	1.977	2.898	8.8	20.5	11 7	4 40.83	+26 47.4	2.114	3.026	8.8	21.3
11 17	4 28.30	+25 1.4	1.932	2.899	5.0	20.3	11 17	4 31.02	+27 33.1	2.049	3.011	5.3	21.1
11 27	4 19.25	+24 47.8	1.915	2.900	1.4	20.0	11 27	4 19.66	+28 11.4	2.014	2.995	2.4	20.9
12 7	4 10.11	+24 28.8	1.927	2.901	3.5	20.2	12 7	4 7.83	+28 40.6	2.009	2.980	4.0	21.0
12 17	4 1.92	+24 7.2	1.968	2.903	7.4	20.4	12 17	3 56.74	+29 1.0	2.035	2.963	7.6	21.1
12 27	3 55.58	+23 46.5	2.035	2.904	10.9	20.6	12 27	3 47.49	+29 15.2	2.089	2.947	11.1	21.3
1 6	3 51.65	+23 29.8	2.125	2.906	13.8	20.8	1 6	3 40.83	+29 26.7	2.166	2.930	14.1	21.5
182145	2000 <i>SR</i> ₄₉		11 28.4 107°04'	1°2'/27.9 18			32117	2000 <i>LD</i> ₅		11 28.4 128°88'	3°1'/26.9 18		
10 28	4 42.12	+19 42.1	2.046	2.902	11.9	20.0	10 28	4 42.38	+12 56.8	2.315	3.164	10.9	19.6
11 7	4 36.04	+19 8.5	1.983	2.909	8.5	19.8	11 7	4 35.97	+12 18.9	2.258	3.178	7.9	19.4
11 17	4 28.13	+18 31.2	1.945	2.915	4.6	19.6	11 17	4 28.01	+11 42.8	2.228	3.191	4.8	19.3
11 27	4 19.22	+17 52.6	1.936	2.921	1.2	19.3	11 27	4 19.24	+11 11.3	2.228	3.204	3.1	19.2
12 7	4 10.33	+17 15.6	1.956	2.928	3.9	19.6	12 7	4 10.53	+10 47.0	2.257	3.216	4.8	19.3
12 17	4 2.42	+16 43.5	2.006	2.934	7.7	19.8	12 17	4 2.70	+10 31.9	2.316	3.228	7.8	19.5
12 27	3 56.30	+16 19.1	2.081	2.940	11.1	20.0	12 27	3 56.42	+10 27.2	2.402	3.239	10.6	19.7
1 6	3 52.45	+16 4.4	2.179	2.946	14.0	20.2	1 6	3 52.15	+10 32.9	2.510	3.250	13.0	19.9
318555	2005 <i>GV</i> ₇₀		11 28.4 159°26'	1°9'/29.1 18			235176	2003 <i>SP</i> ₆₄		11 28.4 94°50'	1°1'/28.0 18		
10 28	4 49.28	+26 50.6	1.707	2.552	14.4	21.3	10 28	4 45.39	+19 52.8	1.776	2.633	13.4	21.0
11 7	4 41.61	+26 54.1	1.641	2.558	10.5	21.1	11 7	4 38.48	+19 28.5	1.725	2.650	9.5	20.8
11 17	4 31.37	+26 47.4	1.599	2.564	6.2	20.8	11 17	4 29.49	+19 0.6	1.698	2.668	5.2	20.6
11 27	4 19.64	+26 29.9	1.585	2.569	2.2	20.6	11 27	4 19.43	+18 31.0	1.700	2.685	1.2	20.4
12 7	4 7.86	+26 3.0	1.600	2.573	4.3	20.8	12 7	4 9.49	+18 2.6	1.730	2.702	4.2	20.6
12 17	3 57.42	+25 30.8	1.643	2.577	8.7	21.0	12 17	4 0.80	+17 38.7	1.789	2.719	8.4	20.9
12 27	3 49.43	+24 58.6	1.712	2.580	12.7	21.3	12 27	3 54.24	+17 22.2	1.874	2.736	12.0	21.2
1 6	3 44.52	+24 31.4	1.804	2.582	16.0	21.5	1 6	3 50.28	+17 14.9	1.981	2.752	15.0	21.4
163037	2001 <i>XU</i> ₁₈₀		11 28.4 6°40'	0°5'/28.3 18			458489	2011 <i>BR</i> ₁₅₄		11 28.4 356°14'	1°1'/28.1 16		
10 28	4 44.16	+22 51.5	1.073	1.955	18.2	19.1	10 28	4 40.11	+19 33.5	1.634	2.503	13.7	21.1
11 7	4 38.82	+22 14.1	1.017	1.955	13.1	18.9	11 7	4 35.11	+19 18.2	1.568	2.499	9.8	20.9
11 17	4 30.14	+21 26.0	0.982	1.955	7.2	18.5	11 17	4 27.84	+18 59.6	1.525	2.496	5.4	20.6
11 27	4 19.50	+20 30.6	0.970	1.956	1.0	18.1	11 27	4 19.24	+18 39.6	1.508	2.494	1.2	20.3
12 7	4 8.82	+19 33.9	0.983	1.958	5.6	18.5	12 7	4 10.51	+18 20.8	1.519	2.493	4.4	20.6
12 17	3 59.91	+18 43.2	1.019	1.961	11.6	18.8	12 17	4 2.86	+18 6.3	1.557	2.492	8.9	20.8
12 27	3 54.17	+18 5.1	1.078	1.965	16.8	19.1	12 27	3 57.30	+17 59.0	1.620	2.493	12.9	21.1
1 6	3 52.23	+17 43.0	1.154	1.969	21.0	19.4	1 6	3 54.43	+18 0.6	1.703	2.494	16.3	21.3
288679	2004 <i>PU</i> ₈₆		11 28.4 80°27'	3°6'/29.6 18			273444	2006 <i>WL</i> ₁₈₄		11 28.4 294°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
178337	1995 <i>UM</i> ₂		11 28.4 84°30'	0°6/28.3	18		482961	2014 <i>KO</i> ₅₉		11 28.4 318°19'	6°2/27.6	18	
10 28	4 49.68	+19 36.0	1.443	2.303	15.7	20.5	10 28	4 46.82	+3 9.1	1.792	2.632	14.1	20.7
11 7	4 41.88	+19 43.4	1.399	2.326	11.2	20.3	11 7	4 39.66	+3 21.9	1.725	2.630	10.9	20.5
11 17	4 31.46	+19 47.7	1.378	2.348	6.1	20.0	11 17	4 30.28	+3 48.6	1.682	2.628	7.8	20.3
11 27	4 19.69	+19 49.4	1.384	2.370	0.9	19.7	11 27	4 19.58	+4 31.4	1.666	2.626	6.2	20.2
12 7	4 8.11	+19 49.8	1.418	2.392	4.6	20.1	12 7	4 8.72	+5 30.5	1.679	2.625	7.5	20.3
12 17	3 58.15	+19 51.4	1.480	2.414	9.4	20.4	12 17	3 58.87	+6 43.9	1.720	2.623	10.6	20.4
12 27	3 50.86	+19 57.0	1.567	2.435	13.6	20.7	12 27	3 51.04	+8 8.9	1.788	2.622	13.8	20.6
1 6	3 46.77	+20 8.7	1.674	2.456	16.9	21.0	1 6	3 45.83	+9 41.6	1.877	2.620	16.7	20.9
514664	2005 <i>UE</i> ₈₆		11 28.4 350°26'	2°9/27.4	18		334043	2001 <i>FB</i> ₂₄		11 28.4 202°03'	4°5/26.6	18	
10 28	4 43.19	+16 58.0	1.359	2.233	15.6	21.6	10 28	4 45.64	+10 25.3	1.944	2.794	12.7	21.6
11 7	4 37.59	+16 13.3	1.297	2.230	11.2	21.3	11 7	4 38.69	+9 40.8	1.872	2.789	9.4	21.4
11 17	4 29.30	+15 26.3	1.257	2.228	6.4	21.0	11 17	4 29.69	+8 59.8	1.825	2.784	6.2	21.2
11 27	4 19.44	+14 41.3	1.243	2.226	3.0	20.8	11 27	4 19.50	+8 26.2	1.807	2.778	4.5	21.1
12 7	4 9.48	+14 3.1	1.255	2.225	6.1	21.0	12 7	4 9.19	+8 3.5	1.818	2.771	6.4	21.2
12 17	4 0.87	+13 36.4	1.294	2.224	10.9	21.3	12 17	3 59.83	+7 54.1	1.858	2.763	9.7	21.4
12 27	3 54.77	+13 24.2	1.355	2.223	15.3	21.5	12 27	3 52.34	+7 59.2	1.923	2.755	13.1	21.6
1 6	3 51.81	+13 27.2	1.435	2.223	18.9	21.8	1 6	3 47.29	+8 18.0	2.009	2.746	15.9	21.8
361372	2006 <i>UL</i> ₃₁₈		11 28.4 230°67'	1°0/27.9	18		290188	2005 <i>SG</i> ₁₁		11 28.4 33°47'	7°7/30.7	18	
10 28	4 42.24	+20 14.4	2.123	2.976	11.6	21.4	10 28	4 48.95	+39 3.2	1.715	2.529	15.7	20.1
11 7	4 36.20	+19 41.5	2.046	2.970	8.3	21.2	11 7	4 41.91	+40 17.0	1.657	2.538	12.7	20.0
11 17	4 28.29	+19 4.1	1.995	2.965	4.6	21.0	11 17	4 31.80	+41 12.7	1.621	2.547	9.8	19.8
11 27	4 19.31	+18 24.4	1.973	2.958	1.1	20.7	11 27	4 19.79	+41 44.3	1.610	2.557	7.8	19.7
12 7	4 10.22	+17 45.1	1.980	2.952	3.8	20.9	12 7	4 7.54	+41 49.8	1.625	2.567	8.1	19.8
12 17	4 2.01	+17 9.7	2.017	2.945	7.7	21.1	12 17	3 56.73	+41 32.2	1.667	2.578	10.3	19.9
12 27	3 55.53	+16 41.5	2.080	2.938	11.1	21.3	12 27	3 48.74	+40 58.3	1.733	2.589	13.2	20.1
1 6	3 51.30	+16 22.5	2.166	2.931	14.1	21.5	1 6	3 44.30	+40 16.9	1.820	2.600	15.8	20.3
451913	2014 <i>KY</i> ₃₃		11 28.4 76°93'	7°6/26.2	15		227656	2006 <i>BC</i> ₁₅₇		11 28.4 53°19'	7°5/25.3	18	
10 28	4 43.44	+0 46.6	1.859	2.697	13.7	20.9	10 28	4 39.77	-0 32.2	2.174	3.007	12.2	20.1
11 7	4 36.88	+0 6.6	1.820	2.718	10.9	20.8	11 7	4 34.25	-1 22.1	2.120	3.010	9.9	20.0
11 17	4 28.54	-0 19.4	1.806	2.739	8.5	20.7	11 17	4 27.15	-1 59.7	2.090	3.014	8.0	19.9
11 27	4 19.33	-0 27.4	1.818	2.759	7.6	20.6	11 27	4 19.18	-2 20.6	2.086	3.017	7.5	19.8
12 7	4 10.26	-0 15.5	1.857	2.780	8.7	20.8	12 7	4 11.19	-2 22.2	2.110	3.020	8.6	19.9
12 17	4 2.31	+0 15.9	1.923	2.800	11.0	20.9	12 17	4 4.02	-2 3.9	2.160	3.024	10.6	20.0
12 27	3 56.22	+1 4.5	2.013	2.821	13.5	21.2	12 27	3 58.38	-1 27.1	2.234	3.027	12.8	20.2
1 6	3 52.45	+2 6.5	2.123	2.841	15.7	21.4	1 6	3 54.72	-0 35.0	2.328	3.031	14.9	20.4
187087	2005 <i>AA</i> ₁₄		11 28.4 63°59'	4°9/26.9	18		194710	2001 <i>XB</i> ₂₄₀		11 28.4 314°11'	1°9/29.0	18	
10 28	4 44.86	+12 15.9	1.350	2.220	15.9	19.7	10 28	4 44.46	+25 59.0	1.422	2.285	15.7	19.8
11 7	4 38.51	+11 23.8	1.305	2.234	11.6	19.5	11 7	4 38.82	+26 5.8	1.344	2.271	11.6	19.5
11 17	4 29.64	+10 35.9	1.282	2.247	7.3	19.3	11 17	4 30.18	+26 2.8	1.289	2.257	6.8	19.2
11 27	4 19.47	+9 57.4	1.286	2.261	4.9	19.2	11 27	4 19.60	+25 48.8	1.259	2.244	2.2	18.9
12 7	4 9.45	+9 32.9	1.315	2.276	7.3	19.4	12 7	4 8.63	+25 25.4	1.256	2.231	4.8	19.0
12 17	4 0.90	+9 25.0	1.370	2.290	11.4	19.7	12 17	3 58.91	+24 56.4	1.279	2.219	9.9	19.3
12 27	3 54.88	+9 34.2	1.449	2.304	15.3	20.0	12 27	3 51.84	+24 27.9	1.325	2.207	14.7	19.6
1 6	3 51.88	+9 59.0	1.546	2.318	18.5	20.2	1 6	3 48.22	+24 5.2	1.392	2.195	18.7	19.8
220110	2002 <i>TF</i> ₃₂		11 28.4 5°78'	3°8/27.2	18		182446	2001 <i>SC</i> ₃₁		11 28.4 38°19'	4°4/29.7	18	
10 28	4 37.77	+17 42.3	0.900	1.802	18.9	18.6	10 28	4 46.89	+30 27.2	1.453	2.304	16.1	19.3
11 7	4 34.46	+16 38.8	0.855	1.801	13.6	18.3	11 7	4 40.23	+31 12.0	1.408	2.323	12.1	19.1
11 17	4 27.81	+15 31.4	0.828	1.803	7.8	18.0	11 17	4 30.72	+31 43.2	1.385	2.343	7.8	18.9
11 27	4 19.25	+14 27.6	0.822	1.806	3.8	17.8	11 27	4 19.64	+31 57.7	1.387	2.363	4.6	18.8
12 7	4 10.70	+13 35.7	0.839	1.811	7.5	18.0	12 7	4 8.63	+31 55.5	1.417	2.385	5.7	18.9
12 17	4 3.92	+13 2.1	0.878	1.819	13.1	18.4	12 17	3 59.23	+31 40.3	1.472	2.406	9.4	19.2
12 27	4 0.27	+12 50.2	0.936	1.828	18.2	18.7	12 27	3 52.63	+31 18.4	1.552	2.429	13.2	19.5
1 6	4 0.32	+12 59.1	1.011	1.839	22.4	19.0	1 6	3 49.38	+30 56.0	1.653	2.452	16.4	19.7
32088	Liamwallace		11 28.4 191°45'	0°6/28.7	18		169817	2002 <i>QS</i> ₅₅		11 28.4 158°10'	2°5/29.5	18	
10 28	4 44.18	+23 19.7	2.056	2.905	12.1	19.3	10 28	4 46.15	+29 13.0	2.110	2.944	12.4	21.1
11 7	4 37.69	+23 23.5	1.983	2.904	8.7	19.1	11 7	4 39.09	+29 19.8	2.040	2.949	9.2	20.9
11 17	4 29.16	+23 21.9	1.935	2.903	4.9	18.9	11 17	4 29.91	+29 16.5	1.995	2.954	5.7	20.7
11 27	4 19.43	+23 14.9	1.916	2.902	0.9	18.6	11 27	4 19.54	+29 2.1	1.978	2.958	2.7	20.5
12 7	4 9.57	+23 3.7	1.927	2.901	3.5	18.8	12 7	4 9.11	+28 37.8	1.992	2.962	4.0	20.6
12 17	4 0.65	+22 50.6	1.967	2.900	7.5	19.0	12 17	3 59.73	+28 6.7	2.034	2.966	7.4	20.8
12 27	3 53.60	+22 38.8	2.033	2.898	11.1	19.2	12 27	3 52.34	+27 33.3	2.104	2.969	10.7	21.1
1 6	3 49.00	+22 31.2	2.122	2.896	14.0	19.4	1 6	3 47.50	+27 2.2	2.197	2.972	13.6	21.3
135918	2002 <i>TO</i> ₁₅₇		11 28.4 87°56'	6°5/26.5	18		511327	2014 <i>DU</i> ₁₄₅		11 28.4 29°08'	10°2/1.4	18	
10 28	4 43.89	+3 53.6	1.856	2.701	13.4	19.6	10 28	4 50.62	+41 21.7	1.309	2.131	19.2	19.4
11 7	4 37.24	+3 17.3	1.813	2.719	10.4	19.4	11 7	4 43.87	+42 53.2	1.260	2.142	15.8	19.2
11 17	4 28.76	+2 52.0	1.795	2.738	7.6	19.3	11 17	4 33.15	+43 59.9	1.232	2.154	12.6	19.1
11 27	4 19.36	+2 41.7	1.803	2.757	6.5	19.3	11 27	4 19.97	+44 33.2	1.226	2.167	10.5	19.0
12 7	4 10.09	+2 48.5	1.840	2.775	7.8	19.4	12 7	4 6.59	+44 30.4	1.243	2.180	10.6	19.0
12 17	4 1.92	+3 12.4	1.903	2.793	10.4	19.6	12 17	3 55.25	+43 56.2	1.284	2.195	12.8	19.2
12 27	3 55.65	+3 51.9	1.991	2.811	13.2	19.8	12 27	3 47.67	+43 1.5	1.348	2.210	15.8	19.4
1 6	3 51.72	+4 44.2	2.100	2.829	15.6	20.0	1 6	3 44.53	+41 58.2	1.430	2.226	18.6	19.7
45371	2000 <i>AA</i> ₁₁₂		11 28.4 347°58'	6°8/26.5	18		512951	2017 <i>FH</i> ₅₄		11 28.4 178°78'	4°5/1.2	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
351404	2005 <i>EA</i> ₂₆₃		11 28.4 201 ^o 05	0 ^o 9/28.0	18		523319	2017 <i>BV</i> ₁₃₇		11 28.5 101 ^o 44	2 ^o 9/27.2	18	
10 28	4 43.63	+19 55.6	2.308	3.156	11.0	21.9	10 28	4 40.75	+13 14.7	2.296	3.149	10.9	21.1
11 7	4 37.08	+19 31.5	2.231	3.152	7.9	21.7	11 7	4 34.92	+12 46.5	2.236	3.158	7.9	20.9
11 17	4 28.75	+19 3.8	2.179	3.148	4.3	21.5	11 17	4 27.53	+12 20.1	2.203	3.167	4.8	20.7
11 27	4 19.41	+18 33.8	2.157	3.143	1.0	21.2	11 27	4 19.29	+11 58.0	2.198	3.176	2.9	20.6
12 7	4 9.97	+18 4.1	2.165	3.137	3.6	21.4	12 7	4 11.07	+11 42.5	2.223	3.184	4.6	20.8
12 17	4 1.34	+17 37.3	2.204	3.131	7.2	21.6	12 17	4 3.66	+11 35.3	2.277	3.193	7.6	21.0
12 27	3 54.35	+17 16.2	2.270	3.124	10.5	21.8	12 27	3 57.78	+11 37.4	2.357	3.201	10.5	21.2
1 6	3 49.51	+17 2.8	2.359	3.116	13.3	22.0	1 6	3 53.87	+11 49.0	2.460	3.209	13.0	21.3
229296	2005 <i>EQ</i> ₅		11 28.4 271 ^o 61	0 ^o 7/28.1	18		149721	2004 <i>JZ</i> ₂₉		11 28.5 286 ^o 17	0 ^o 3/28.4	18	
10 28	4 40.56	+19 45.3	2.430	3.281	10.4	20.4	10 28	4 46.24	+20 13.4	1.478	2.342	15.2	20.1
11 7	4 34.91	+19 35.0	2.346	3.269	7.5	20.2	11 7	4 39.95	+20 22.4	1.401	2.330	11.0	19.9
11 17	4 27.59	+19 22.0	2.288	3.257	4.1	19.9	11 17	4 30.78	+20 28.5	1.347	2.318	6.1	19.5
11 27	4 19.27	+19 7.5	2.260	3.246	0.8	19.7	11 27	4 19.75	+20 31.6	1.320	2.306	0.8	19.2
12 7	4 10.79	+18 52.9	2.261	3.234	3.3	19.8	12 7	4 8.33	+20 32.9	1.320	2.294	4.7	19.4
12 17	4 3.00	+18 40.3	2.292	3.222	6.8	20.1	12 17	3 58.07	+20 34.5	1.347	2.283	9.9	19.7
12 27	3 56.66	+18 31.9	2.351	3.210	10.0	20.2	12 27	3 50.31	+20 39.9	1.398	2.271	14.6	19.9
1 6	3 52.32	+18 29.3	2.433	3.198	12.7	20.4	1 6	3 45.85	+20 51.7	1.469	2.260	18.5	20.2
484175	2006 <i>UK</i> ₂₄₇		11 28.4 353 ^o 66	1 ^o 3/28.9	18		513612	2011 <i>GZ</i> ₇₃		11 28.5 194 ^o 07	0 ^o 5/28.7	18	
10 28	4 43.41	+25 2.6	1.692	2.549	13.9	21.3	10 28	4 46.72	+23 40.3	1.973	2.819	12.7	22.6
11 7	4 37.53	+25 5.3	1.623	2.547	10.1	21.0	11 7	4 39.60	+23 31.3	1.897	2.817	9.2	22.4
11 17	4 29.24	+25 0.2	1.577	2.545	5.8	20.8	11 17	4 30.28	+23 15.6	1.847	2.814	5.1	22.1
11 27	4 19.51	+24 47.0	1.559	2.544	1.6	20.5	11 27	4 19.67	+22 53.5	1.825	2.811	0.9	21.8
12 7	4 9.63	+24 27.4	1.568	2.543	4.1	20.7	12 7	4 8.93	+22 26.9	1.833	2.808	3.7	22.0
12 17	4 0.90	+24 4.6	1.605	2.543	8.5	20.9	12 17	3 59.21	+21 59.1	1.871	2.803	7.9	22.3
12 27	3 54.39	+23 43.1	1.668	2.543	12.5	21.2	12 27	3 51.52	+21 33.9	1.936	2.798	11.6	22.5
1 6	3 50.73	+23 26.7	1.752	2.543	15.9	21.4	1 6	3 46.45	+21 14.9	2.023	2.792	14.8	22.7
250422	2003 <i>WH</i> ₃₉		11 28.4 28 ^o 17	1 ^o 8/29.3	18		352260	2007 <i>TR</i> ₂₀₉		11 28.5 83 ^o 20	3 ^o 9/29.9	18	
10 28	4 41.69	+28 2.8	2.022	2.869	12.4	20.1	10 28	4 48.35	+31 43.1	1.740	2.575	14.6	21.1
11 7	4 35.93	+27 47.2	1.956	2.873	9.1	19.9	11 7	4 40.94	+32 3.9	1.687	2.594	11.0	20.9
11 17	4 28.19	+27 21.5	1.914	2.878	5.4	19.6	11 17	4 31.02	+32 10.8	1.657	2.612	7.1	20.7
11 27	4 19.36	+26 46.3	1.900	2.883	2.0	19.4	11 27	4 19.76	+32 2.0	1.655	2.630	4.1	20.6
12 7	4 10.53	+26 3.9	1.915	2.889	3.6	19.6	12 7	4 8.58	+31 38.6	1.681	2.648	5.1	20.7
12 17	4 2.74	+25 18.3	1.959	2.895	7.3	19.8	12 17	3 58.83	+31 4.6	1.734	2.666	8.5	20.9
12 27	3 56.84	+24 34.1	2.029	2.901	10.8	20.0	12 27	3 51.58	+30 26.3	1.814	2.683	12.0	21.2
1 6	3 53.36	+23 55.4	2.123	2.907	13.7	20.2	1 6	3 47.36	+29 49.3	1.916	2.701	15.0	21.4
250454	2004 <i>AW</i> ₁		11 28.4 292 ^o 50	2 ^o 1/29.5	17		355369	2007 <i>TP</i> ₃₁₀		11 28.5 23 ^o 64	1 ^o 6/27.9	18	
10 28	4 44.17	+29 27.0	1.781	2.627	13.8	19.4	10 28	4 42.87	+18 29.8	1.357	2.231	15.6	20.8
11 7	4 38.19	+28 56.0	1.689	2.605	10.3	19.2	11 7	4 37.32	+18 15.1	1.304	2.238	11.1	20.5
11 17	4 29.67	+28 10.3	1.620	2.584	6.2	18.9	11 17	4 29.15	+17 58.2	1.274	2.246	6.2	20.3
11 27	4 19.58	+27 10.0	1.579	2.562	2.4	18.6	11 27	4 19.53	+17 41.4	1.270	2.255	1.7	20.0
12 7	4 9.20	+25 58.2	1.566	2.540	4.2	18.7	12 7	4 9.91	+17 27.5	1.291	2.265	5.1	20.3
12 17	3 59.89	+24 40.8	1.582	2.519	8.7	18.9	12 17	4 1.69	+17 19.7	1.339	2.275	10.0	20.6
12 27	3 52.79	+23 25.3	1.624	2.497	12.9	19.1	12 27	3 55.99	+17 20.5	1.410	2.286	14.3	20.9
1 6	3 48.62	+22 18.1	1.688	2.476	16.5	19.3	1 6	3 53.38	+17 31.1	1.501	2.298	17.8	21.1
404641	2014 <i>HR</i> ₂₀		11 28.4 8 ^o 25	0 ^o 9/28.8	18		23052	1999 <i>XK</i> ₃₇		11 28.5 294 ^o 36	8 ^o 2/26.1	18	
10 28	4 44.38	+24 36.2	1.601	2.460	14.5	21.0	10 28	4 43.35	+ 0 47.3	1.702	2.545	14.5	17.1
11 7	4 38.28	+24 28.2	1.535	2.460	10.5	20.8	11 7	4 37.37	+ 0 12.7	1.631	2.532	11.7	16.9
11 17	4 29.66	+24 11.8	1.492	2.461	5.9	20.5	11 17	4 29.15	- 0 7.5	1.584	2.519	9.2	16.7
11 27	4 19.57	+23 47.3	1.475	2.461	1.3	20.2	11 27	4 19.55	- 0 8.2	1.561	2.506	8.2	16.6
12 7	4 9.37	+23 17.3	1.487	2.462	4.2	20.4	12 7	4 9.71	+ 0 13.8	1.565	2.493	9.6	16.7
12 17	4 0.43	+22 45.8	1.526	2.463	8.9	20.7	12 17	4 0.81	+ 0 58.7	1.595	2.481	12.4	16.8
12 27	3 53.84	+22 17.6	1.590	2.464	13.0	20.9	12 27	3 53.89	+ 2 4.1	1.648	2.468	15.5	17.0
1 6	3 50.22	+21 56.6	1.675	2.466	16.5	21.2	1 6	3 49.59	+ 3 25.7	1.721	2.456	18.3	17.2
169857	2002 <i>RV</i> ₄₃		11 28.5 139 ^o 87	1 ^o 4/29.1	18		378052	2006 <i>TA</i> ₅₁		11 28.5 105 ^o 26	1 ^o 7/27.8	16	
10 28	4 46.16	+26 26.9	2.313	3.148	11.4	21.1	10 28	4 48.84	+19 13.4	1.634	2.489	14.4	21.5
11 7	4 38.85	+26 28.1	2.249	3.162	8.3	20.9	11 7	4 40.98	+18 30.4	1.589	2.514	10.2	21.3
11 17	4 29.70	+26 21.6	2.211	3.174	4.8	20.7	11 17	4 30.90	+17 43.8	1.568	2.537	5.6	21.1
11 27	4 19.56	+26 7.3	2.202	3.186	1.6	20.5	11 27	4 19.74	+16 56.6	1.575	2.560	1.8	20.8
12 7	4 9.44	+25 46.5	2.225	3.198	3.3	20.7	12 7	4 8.86	+16 12.9	1.612	2.582	4.8	21.1
12 17	4 0.30	+25 22.0	2.277	3.208	6.8	20.9	12 17	3 59.44	+15 37.0	1.677	2.604	9.1	21.4
12 27	3 52.97	+24 57.1	2.358	3.218	9.9	21.1	12 27	3 52.41	+15 12.0	1.768	2.624	12.9	21.7
1 6	3 47.93	+24 35.4	2.462	3.228	12.6	21.3	1 6	3 48.20	+14 59.3	1.880	2.644	15.9	21.9
255524	2006 <i>DY</i> ₆₉		11 28.5 88 ^o 94	3 ^o 7/27.4	16		403474	2009 <i>TB</i> ₃₄		11 28.5 12 ^o 29	3 ^o 2/30.0	17	
10 28	4 49.24	+14 50.4	1.322	2.188	16.5	20.4	10 28	4 42.81	+31 55.7	1.867	2.707	13.6	20.1
11 7	4 41.57	+14 9.3	1.283	2.211	11.8	20.2	11 7	4 36.96	+31 42.7	1.799	2.709	10.2	19.9
11 17	4 31.30	+13 29.9	1.266	2.234	6.9	20.0	11 17	4 28.86	+31 15.5	1.754	2.711	6.5	19.7
11 27	4 19.75	+12 56.2	1.276	2.257	3.7	19.8	11 27	4 19.50	+30 33.8	1.735	2.713	3.5	19.5
12 7	4 8.51	+12 32.2	1.313	2.279	6.4	20.1	12 7	4 10.13	+29 40.1	1.745	2.716	4.4	19.6
12 17	3 58.98	+12 20.9	1.376	2.300	10.9	20.4	12 17	4 1.93	+28 39.3	1.784	2.719	7.9	19.8
12 27	3 52.20	+12 23.8	1.463	2.322	14.9	20.7	12 27	3 55.88	+27 37.7	1.848	2.723	11.5	20.0
1 6	3 48.63	+12 40.3	1.569	2.342	18.2	21.0	1 6	3 52.53	+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
458042	2009 <i>WX</i> ₂₂₃		11 28.5 46°43'	0°9'/28.2 18			444592	2006 <i>UW</i> ₈₁		11 28.5 354°39'	0°2'/28.4 18		
10 28	4 43.16	+17 59.9	2.052	2.907	11.9	20.8	10 28	4 43.33	+20 33.1	1.617	2.481	14.1	21.1
11 7	4 36.91	+18 15.1	1.988	2.913	8.5	20.6	11 7	4 37.57	+20 43.2	1.549	2.478	10.1	20.9
11 17	4 28.75	+18 29.9	1.950	2.919	4.7	20.4	11 17	4 29.35	+20 50.3	1.505	2.476	5.6	20.6
11 27	4 19.50	+18 44.5	1.940	2.926	1.0	20.1	11 27	4 19.65	+20 54.5	1.488	2.474	0.7	20.3
12 7	4 10.16	+18 59.5	1.960	2.933	3.7	20.3	12 7	4 9.76	+20 56.9	1.498	2.473	4.2	20.5
12 17	4 1.74	+19 15.7	2.009	2.940	7.5	20.6	12 17	4 0.99	+20 59.6	1.536	2.472	8.9	20.8
12 27	3 55.09	+19 34.7	2.085	2.947	10.9	20.8	12 27	3 54.45	+21 5.2	1.598	2.472	13.0	21.0
1 6	3 50.77	+19 57.4	2.183	2.954	13.8	21.0	1 6	3 50.78	+21 16.0	1.682	2.473	16.5	21.3
515169	2011 <i>RK</i> ₁		11 28.5 120°68'	0°3'/28.6 18			118126	3344 <i>T</i> ₋₃		11 28.5 53°82'	2°0'/27.8 18		
10 28	4 46.15	+23 51.5	2.118	2.961	12.0	22.4	10 28	4 43.78	+18 10.2	1.550	2.416	14.4	19.9
11 7	4 38.85	+23 31.0	2.061	2.980	8.6	22.2	11 7	4 37.67	+17 36.8	1.499	2.429	10.3	19.7
11 17	4 29.70	+23 3.9	2.031	2.998	4.8	22.0	11 17	4 29.26	+17 1.1	1.472	2.442	5.7	19.4
11 27	4 19.61	+22 31.3	2.029	3.015	0.7	21.8	11 27	4 19.63	+16 26.0	1.471	2.456	2.0	19.2
12 7	4 9.63	+21 55.6	2.058	3.032	3.4	22.0	12 7	4 10.10	+15 55.3	1.498	2.469	5.0	19.5
12 17	4 0.76	+21 20.3	2.118	3.049	7.2	22.3	12 17	4 1.88	+15 32.5	1.552	2.483	9.3	19.7
12 27	3 53.80	+20 49.0	2.204	3.064	10.5	22.5	12 27	3 55.93	+15 20.3	1.631	2.497	13.3	20.0
1 6	3 49.21	+20 24.5	2.314	3.079	13.3	22.7	1 6	3 52.77	+15 19.6	1.730	2.511	16.5	20.3
130341	2000 <i>FU</i> ₄₇		11 28.5 238°25'	0°7'/28.2 18			97124	1999 <i>VD</i> ₁₀₁		11 28.5 161°30'	0°3'/28.6 18		
10 28	4 41.42	+18 48.0	2.680	3.526	9.7	20.7	10 28	4 42.43	+23 2.5	2.309	3.156	11.0	19.9
11 7	4 35.43	+18 48.5	2.595	3.515	7.0	20.5	11 7	4 36.30	+22 57.6	2.237	3.158	7.9	19.7
11 17	4 27.88	+18 47.5	2.536	3.505	3.8	20.3	11 17	4 28.42	+22 47.7	2.192	3.159	4.4	19.5
11 27	4 19.41	+18 45.8	2.508	3.494	0.8	20.0	11 27	4 19.53	+22 33.3	2.175	3.161	0.7	19.2
12 7	4 10.76	+18 44.2	2.510	3.482	3.1	20.2	12 7	4 10.58	+22 15.9	2.188	3.163	3.2	19.4
12 17	4 2.73	+18 44.2	2.543	3.470	6.3	20.4	12 17	4 2.45	+21 57.8	2.232	3.164	6.8	19.7
12 27	3 56.03	+18 47.3	2.604	3.459	9.3	20.6	12 27	3 55.96	+21 41.9	2.302	3.165	10.0	19.9
1 6	3 51.17	+18 54.9	2.689	3.446	11.8	20.8	1 6	3 51.61	+21 30.5	2.396	3.166	12.7	20.1
134516	1999 <i>KM</i> ₁₀		11 28.5 133°09'	1°1'/28.8 17			410985	2009 <i>UQ</i> ₁₅		11 28.5 52°52'	4°0'/30.5 17		
10 28	4 50.52	+24 14.5	1.673	2.520	14.5	20.6	10 28	4 45.24	+34 10.4	1.852	2.682	14.1	20.4
11 7	4 42.49	+24 23.6	1.615	2.534	10.5	20.4	11 7	4 38.56	+34 2.0	1.801	2.704	10.7	20.2
11 17	4 31.92	+24 25.3	1.581	2.548	5.9	20.2	11 17	4 29.67	+33 37.8	1.775	2.726	7.1	20.0
11 27	4 19.94	+24 18.7	1.575	2.560	1.4	19.9	11 27	4 19.68	+32 57.4	1.775	2.748	4.3	19.9
12 7	4 7.99	+24 5.4	1.598	2.572	4.2	20.1	12 7	4 9.89	+32 3.4	1.803	2.770	4.9	20.0
12 17	3 57.43	+23 48.6	1.650	2.583	8.7	20.4	12 17	4 1.49	+31 1.3	1.860	2.793	7.9	20.2
12 27	3 49.36	+23 32.6	1.728	2.594	12.6	20.7	12 27	3 55.38	+29 57.4	1.943	2.815	11.1	20.5
1 6	3 44.35	+23 21.3	1.828	2.603	15.9	21.0	1 6	3 52.01	+28 57.7	2.050	2.838	14.0	20.7
4469	Utting		11 28.5 61°54'	7°6'/1.9 18			347577	2001 <i>AE</i> ₄₇		11 28.5 283°72'	1°7'/28.3 17		
10 28	4 50.70	+40 47.7	1.551	2.363	17.2	17.4	10 28	4 52.53	+13 41.4	1.870	2.712	13.5	20.2
11 7	4 43.10	+41 17.0	1.503	2.383	13.8	17.3	11 7	4 44.39	+14 33.8	1.763	2.680	9.9	19.9
11 17	4 32.37	+41 22.3	1.475	2.403	10.4	17.1	11 17	4 33.38	+15 34.0	1.682	2.648	5.7	19.6
11 27	4 20.00	+40 59.9	1.472	2.423	8.0	17.0	11 27	4 20.26	+16 40.7	1.631	2.616	1.8	19.3
12 7	4 7.83	+40 10.9	1.496	2.444	8.0	17.1	12 7	4 6.27	+17 51.7	1.612	2.583	4.7	19.4
12 17	3 57.57	+39 1.8	1.545	2.464	10.3	17.3	12 17	3 52.84	+19 4.7	1.624	2.549	9.4	19.6
12 27	3 50.44	+37 42.7	1.619	2.485	13.3	17.5	12 27	3 41.39	+20 18.8	1.664	2.515	13.8	19.8
1 6	3 46.95	+36 23.2	1.714	2.505	16.2	17.7	1 6	3 32.90	+21 33.6	1.727	2.481	17.5	20.0
191196	2002 <i>PW</i> ₁₅		11 28.5 109°26'	0°0'/28.4 18			241440	2008 <i>XP</i> ₅₅		11 28.5 45°60'	0°4'/28.6 18		
10 28	4 41.56	+22 25.3	2.460	3.307	10.5	20.4	10 28	4 45.36	+22 27.3	1.580	2.441	14.5	20.0
11 7	4 35.48	+22 5.5	2.398	3.319	7.5	20.2	11 7	4 39.01	+22 30.0	1.518	2.445	10.5	19.8
11 17	4 27.86	+21 41.1	2.363	3.331	4.1	20.1	11 17	4 30.13	+22 27.0	1.479	2.449	5.8	19.6
11 27	4 19.42	+21 13.2	2.356	3.343	0.5	19.8	11 27	4 19.78	+22 18.6	1.466	2.453	0.9	19.2
12 7	4 11.01	+20 43.9	2.381	3.354	3.0	20.0	12 7	4 9.33	+22 6.4	1.482	2.457	4.2	19.5
12 17	4 3.44	+20 15.7	2.435	3.366	6.4	20.3	12 17	4 0.15	+21 53.4	1.525	2.462	8.9	19.8
12 27	3 57.40	+19 51.5	2.517	3.377	9.4	20.5	12 27	3 53.34	+21 43.4	1.593	2.466	13.1	20.0
1 6	3 53.33	+19 33.2	2.622	3.388	11.9	20.7	1 6	3 49.52	+21 39.5	1.682	2.471	16.5	20.3
518372	2017 <i>FC</i> ₂₇		11 28.5 265°34'	2°7'/27.5 17			287014	2002 <i>QU</i> ₈₂		11 28.5 86°62'	0°8'/28.2 18		
10 28	4 41.54	+13 12.9	2.217	3.070	11.2	20.8	10 28	4 44.92	+20 45.0	1.788	2.644	13.3	21.0
11 7	4 35.70	+13 0.9	2.142	3.063	8.1	20.6	11 7	4 38.25	+20 20.1	1.735	2.661	9.5	20.8
11 17	4 28.10	+12 51.3	2.092	3.057	4.9	20.3	11 17	4 29.50	+19 50.6	1.707	2.677	5.2	20.6
11 27	4 19.47	+12 45.9	2.071	3.051	2.8	20.2	11 27	4 19.68	+19 18.6	1.707	2.694	0.9	20.4
12 7	4 10.69	+12 46.4	2.080	3.044	4.6	20.3	12 7	4 9.97	+18 47.1	1.737	2.710	4.1	20.6
12 17	4 2.67	+12 54.2	2.118	3.038	7.9	20.5	12 17	4 1.47	+18 19.4	1.794	2.726	8.2	20.9
12 27	3 56.22	+13 10.2	2.182	3.031	11.1	20.7	12 27	3 55.07	+17 58.8	1.878	2.742	11.9	21.2
1 6	3 51.86	+13 34.5	2.269	3.024	13.8	20.9	1 6	3 51.26	+17 47.3	1.983	2.757	14.9	21.4
275423	2011 <i>CH</i> ₁₂		11 28.5 255°84'	0°2'/28.4 17			220494	2004 <i>DK</i>		11 28.5 274°76'	1°6'/27.9 18		
10 28	4 41.32	+21 44.6	2.306	3.156	10.9	21.8	10 28	4 45.10	+20 2.2	1.506	2.371	14.9	20.1
11 7	4 35.53	+21 31.4	2.228	3.151	7.8	21.6	11 7	4 39.06	+19 20.9	1.426	2.356	10.7	19.8
11 17	4 28.00	+21 13.8	2.176	3.145	4.3	21.4	11 17	4 30.29	+18 33.1	1.370	2.341	6.0	19.5
11 27	4 19.45	+20 52.9	2.154	3.140	0.6	21.1	11 27	4 19.82	+17 41.6	1.341	2.326	1.7	19.2
12 7	4 10.79	+20 30.4	2.161	3.134	3.3	21.3	12 7	4 9.06	+16 51.1	1.339	2.311	5.2	19.4
12 17	4 2.90	+20 8.8	2.197	3.129	6.9	21.5	12 17	3 59.45	+16 7.0	1.364	2.296	10.2	19.6
12 27	3 56.60	+19 50.9	2.261	3.123	10.2	21.7	12 27	3 52.25	+15 34.3	1.413	2.281	14.8	19.9
1 6	3 52.41	+19 38.9	2.348	3.117	13.0	21.9	1 6	3 48.19	+15 15.7	1.483	2.266	18.7	20.1
75954	2000 <i>CO</i> ₉₁		11 28.5 171°63'	5°9'/25.9 18			71392	2000 <i>AV</i> ₁₆₂		11 28.5 351°63'	1°7'/2		

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	
439277	2012 <i>UH</i> ₄₇		11 28.5	85°41	0°3/28.6	16	201231	2002 <i>QV</i> ₁₂₈		11 28.5	24°81	3°6/27.1	18	
10 28	4 47.54	+22 4.4	1.587	2.444	14.7	21.6	10 28	4 40.29	+11 56.6	1.970	2.830	12.1	20.0	
11 7	4 40.42	+22 10.8	1.534	2.459	10.5	21.4	11 7	4 34.88	+11 29.7	1.911	2.835	8.8	19.8	
11 17	4 30.82	+22 11.9	1.505	2.475	5.8	21.1	11 17	4 27.68	+11 6.4	1.877	2.840	5.5	19.6	
11 27	4 19.87	+22 7.8	1.504	2.490	0.8	20.8	11 27	4 19.49	+10 49.4	1.870	2.846	3.6	19.5	
12 7	4 8.98	+21 59.9	1.530	2.505	4.2	21.1	12 7	4 11.28	+10 41.2	1.892	2.853	5.4	19.6	
12 17	3 59.47	+21 51.2	1.585	2.520	8.8	21.4	12 17	4 3.97	+10 43.4	1.942	2.859	8.7	19.8	
12 27	3 52.40	+21 45.1	1.665	2.535	12.8	21.7	12 27	3 58.37	+10 56.6	2.017	2.866	11.8	20.0	
1 6	3 48.32	+21 44.5	1.766	2.549	16.1	21.9	1 6	3 54.98	+11 20.3	2.114	2.874	14.5	20.2	
266524	2008 <i>FX</i> ₃		11 28.5	178°85	1°5/29.0	18	80241	1999 <i>VH</i> ₂₂₅		11 28.5	4°60	5°6/26.9	18	
10 28	4 48.92	+26 3.3	1.916	2.756	13.2	21.7	10 28	4 42.23	+12 5.6	1.095	1.980	17.6	19.6	
11 7	4 41.29	+26 6.6	1.843	2.758	9.7	21.5	11 7	4 37.35	+11 18.0	1.043	1.979	13.0	19.3	
11 17	4 31.31	+26 1.5	1.795	2.760	5.6	21.2	11 17	4 29.43	+10 35.3	1.012	1.979	8.2	19.1	
11 27	4 19.95	+25 47.1	1.776	2.761	1.8	21.0	11 27	4 19.73	+10 3.9	1.003	1.981	5.6	18.9	
12 7	4 8.46	+25 24.8	1.787	2.761	3.9	21.1	12 7	4 9.96	+9 48.7	1.019	1.983	8.2	19.1	
12 17	3 58.11	+24 57.8	1.827	2.760	8.0	21.4	12 17	4 1.73	+9 52.9	1.058	1.986	12.9	19.4	
12 27	3 49.95	+24 30.8	1.894	2.758	11.8	21.6	12 27	3 56.34	+10 16.6	1.118	1.990	17.5	19.7	
1 6	3 44.58	+24 7.9	1.984	2.756	15.0	21.8	1 6	3 54.44	+10 57.3	1.195	1.996	21.3	19.9	
148232	2000 <i>DU</i> ₁₀₉		11 28.5	223°55	1°7/27.9	18	516456	2005 <i>GK</i> ₉₃		11 28.5	219°46	0°4/28.4	18	
10 28	4 45.95	+18 6.0	1.809	2.665	13.2	21.2	10 28	4 46.31	+19 13.9	2.309	3.152	11.2	21.9	
11 7	4 39.24	+17 41.6	1.732	2.657	9.5	20.9	11 7	4 39.19	+19 30.1	2.224	3.143	8.0	21.7	
11 17	4 30.23	+17 14.5	1.679	2.648	5.3	20.7	11 17	4 30.12	+19 44.9	2.165	3.133	4.5	21.4	
11 27	4 19.82	+16 46.8	1.655	2.639	1.8	20.4	11 27	4 19.83	+19 58.3	2.137	3.123	0.7	21.1	
12 7	4 9.20	+16 21.3	1.659	2.630	4.6	20.6	12 7	4 9.29	+20 10.6	2.139	3.112	3.4	21.3	
12 17	3 59.60	+16 1.1	1.692	2.619	9.0	20.8	12 17	3 59.49	+20 22.6	2.172	3.101	7.2	21.6	
12 27	3 52.05	+15 49.4	1.751	2.609	12.9	21.1	12 27	3 51.33	+20 36.3	2.233	3.089	10.6	21.8	
1 6	3 47.20	+15 47.8	1.831	2.598	16.2	21.3	1 6	3 45.43	+20 53.1	2.318	3.076	13.5	21.9	
390775	2003 <i>UW</i> ₂₁₁		11 28.5	37°42	6°9/29.3	18	115421	2003 <i>SN</i> ₃₀₆		11 28.5	250°35	4°1/29.9	18	R
10 28	4 53.97	+32 6.5	1.374	2.214	17.5	19.9	10 28	4 48.97	+31 58.3	1.538	2.379	15.9	19.3	
11 7	4 46.01	+34 7.6	1.324	2.229	13.5	19.7	11 7	4 42.08	+32 5.7	1.459	2.369	12.1	19.0	
11 17	4 34.37	+35 55.4	1.298	2.245	9.6	19.6	11 17	4 32.08	+31 57.1	1.402	2.359	7.9	18.8	
11 27	4 20.38	+37 20.5	1.297	2.261	7.1	19.5	11 27	4 20.12	+31 29.7	1.371	2.348	4.4	18.5	
12 7	4 6.03	+38 17.6	1.323	2.278	8.0	19.6	12 7	4 7.83	+30 44.6	1.367	2.337	5.6	18.6	
12 17	3 53.38	+38 47.7	1.376	2.295	11.3	19.8	12 17	3 56.92	+29 47.1	1.390	2.325	9.8	18.8	
12 27	3 44.10	+38 57.8	1.452	2.313	14.9	20.1	12 27	3 48.79	+28 45.4	1.438	2.314	14.1	19.0	
1 6	3 38.99	+38 56.7	1.548	2.332	18.0	20.3	1 6	3 44.22	+27 47.6	1.507	2.302	17.9	19.2	
24256	1999 <i>XZ</i> ₁₂₅		11 28.5	27°74	3°5/29.4	18	239809	1997 <i>AY</i> ₁₂		11 28.5	317°46	2°6/27.8	18	
10 28	4 46.21	+27 38.7	1.041	1.917	19.1	17.0	10 28	4 43.21	+15 51.8	1.450	2.321	15.0	19.2	
11 7	4 40.53	+28 7.5	0.997	1.927	14.1	16.7	11 7	4 37.82	+15 41.5	1.373	2.304	10.9	18.9	
11 17	4 31.26	+28 22.7	0.972	1.939	8.5	16.5	11 17	4 29.69	+15 32.1	1.318	2.288	6.3	18.6	
11 27	4 19.95	+28 21.6	0.970	1.952	3.8	16.2	11 27	4 19.81	+15 25.7	1.289	2.273	2.6	18.3	
12 7	4 8.69	+28 5.7	0.992	1.966	5.9	16.4	12 7	4 9.54	+15 24.8	1.287	2.258	5.6	18.5	
12 17	3 59.45	+27 40.3	1.037	1.981	11.1	16.8	12 17	4 0.33	+15 31.8	1.311	2.244	10.5	18.7	
12 27	3 53.64	+27 13.1	1.105	1.997	16.0	17.1	12 27	3 53.49	+15 48.7	1.358	2.230	15.0	18.9	
1 6	3 51.86	+26 50.4	1.191	2.014	20.0	17.4	1 6	3 49.78	+16 15.9	1.425	2.217	18.9	19.2	
249916	2001 <i>SV</i> ₂₀₄		11 28.5	21°41	1°2/28.9	18	74913	1999 <i>TL</i> ₁₄₁		11 28.5	197°50	2°3/29.2	18	
10 28	4 44.12	+24 26.8	1.733	2.589	13.7	20.0	10 28	4 49.35	+27 4.6	1.718	2.562	14.4	19.9	
11 7	4 38.02	+24 35.0	1.668	2.591	9.9	19.8	11 7	4 41.95	+27 23.4	1.645	2.560	10.6	19.7	
11 17	4 29.57	+24 36.4	1.626	2.594	5.6	19.6	11 17	4 31.85	+27 32.9	1.595	2.558	6.3	19.4	
11 27	4 19.74	+24 30.5	1.611	2.596	1.5	19.3	11 27	4 20.08	+27 31.2	1.572	2.555	2.6	19.2	
12 7	4 9.79	+24 18.7	1.625	2.599	4.0	19.5	12 7	4 8.08	+27 18.8	1.579	2.551	4.5	19.3	
12 17	4 0.98	+24 3.8	1.666	2.603	8.3	19.8	12 17	3 57.28	+26 58.8	1.613	2.547	8.8	19.6	
12 27	3 54.35	+23 49.6	1.733	2.606	12.2	20.0	12 27	3 48.92	+26 36.2	1.674	2.542	12.8	19.8	
1 6	3 50.51	+23 39.7	1.822	2.610	15.5	20.2	1 6	3 43.68	+26 16.1	1.756	2.537	16.3	20.0	
286034	2001 <i>SU</i> ₁₈₉		11 28.5	26°71	1°3/28.1	18	359693	2011 <i>SL</i> ₁₈₄		11 28.5	36°79	0°0/28.4	18	
10 28	4 42.37	+19 24.5	1.400	2.273	15.3	20.2	10 28	4 44.77	+20 55.9	1.568	2.430	14.5	20.4	
11 7	4 36.91	+19 6.6	1.351	2.284	10.9	19.9	11 7	4 38.57	+21 5.8	1.510	2.438	10.4	20.2	
11 17	4 28.95	+18 45.6	1.325	2.297	6.0	19.7	11 17	4 29.90	+21 12.1	1.476	2.446	5.7	19.9	
11 27	4 19.65	+18 23.6	1.324	2.310	1.4	19.4	11 27	4 19.82	+21 14.8	1.468	2.454	0.7	19.6	
12 7	4 10.41	+18 3.9	1.350	2.324	4.8	19.7	12 7	4 9.68	+21 15.1	1.488	2.463	4.2	19.9	
12 17	4 2.56	+17 49.6	1.402	2.339	9.6	20.0	12 17	4 0.80	+21 15.3	1.536	2.472	8.9	20.2	
12 27	3 57.14	+17 43.7	1.478	2.355	13.7	20.3	12 27	3 54.25	+21 18.3	1.608	2.482	13.0	20.5	
1 6	3 54.68	+17 47.5	1.574	2.371	17.2	20.6	1 6	3 50.65	+21 26.4	1.701	2.492	16.3	20.7	
300828	2007 <i>XE</i> ₂₀		11 28.5	354°96	0°7/28.8	18	418462	2008 <i>RU</i> ₄₁		11 28.5	49°44	0°2/28.4	15	
10 28	4 43.25	+24 39.9	1.597	2.458	14.4	20.1	10 28	4 42.29	+21 39.5	1.951	2.807	12.4	21.2	
11 7	4 37.54	+24 20.7	1.529	2.456	10.4	19.8	11 7	4 36.29	+21 27.7	1.902	2.827	8.8	21.0	
11 17	4 29.35	+23 52.3	1.485	2.454	5.9	19.6	11 17	4 28.43	+21 11.4	1.877	2.847	4.8	20.8	
11 27	4 19.72	+23 16.0	1.467	2.453	1.1	19.2	11 27	4 19.61	+20 51.9	1.880	2.867	0.6	20.6	
12 7	4 9.99	+22 34.9	1.477	2.453	4.2	19.5	12 7	4 10.89	+20 31.4	1.913	2.887	3.6	20.9	
12 17	4 1.48	+21 53.5	1.514	2.452	8.9	19.7	12 17	4 3.25	+20 12.6	1.974	2.908	7.4	21.1	
12 27	3 55.27	+21 17.1	1.576	2.452	13.0	20.0	12 27	3 57.48	+19 58.2	2.061	2.928	10.8	21.4	
1 6	3 51.99	+20 49.4	1.660	2.453	16.6	20.2	1 6	3 54.05	+19 50.3	2.171	2.949	13.6	21.6	
248251	2005 <i>GO</i> ₂₃		11 28.5	144°49	5°8/25.7	18	495793	2017 <i>FR</i> ₆₅						

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
61674	2000 QX ₁₂₁		11 28.5 298°95	1°9/29.4	18		91166	1998 QT ₈₄		11 28.5 19°93	1°0/29.1	18	
10 28	4 43.06	+28 6.4	1.913	2.760	13.0	18.4	10 28	4 41.65	+27 47.8	1.624	2.482	14.4	17.9
11 7	4 37.25	+27 52.0	1.830	2.748	9.6	18.1	11 7	4 36.22	+26 50.6	1.566	2.490	10.4	17.7
11 17	4 29.18	+27 26.7	1.772	2.736	5.7	17.9	11 17	4 28.53	+25 39.9	1.530	2.498	5.9	17.5
11 27	4 19.75	+26 50.3	1.741	2.724	2.2	17.6	11 27	4 19.67	+24 18.9	1.522	2.508	1.4	17.2
12 7	4 10.13	+26 5.2	1.738	2.712	3.9	17.7	12 7	4 10.93	+22 53.1	1.543	2.518	4.0	17.4
12 17	4 1.50	+25 15.5	1.764	2.701	7.9	18.0	12 17	4 3.51	+21 29.6	1.591	2.529	8.4	17.7
12 27	3 54.88	+24 26.6	1.817	2.690	11.8	18.2	12 27	3 58.33	+20 14.9	1.664	2.541	12.4	18.0
1 6	3 50.92	+23 43.4	1.891	2.678	15.1	18.4	1 6	3 55.88	+19 13.6	1.760	2.554	15.7	18.2
381008	2006 UW ₁₄		11 28.5 52°29	1°7/28.8	18		491019	2011 OB ₆		11 28.5 7°41	0°2/28.6	16	
10 28	4 50.23	+23 11.8	1.186	2.053	17.8	20.6	10 28	4 37.92	+23 52.3	2.106	2.963	11.5	20.9
11 7	4 43.03	+23 57.1	1.141	2.070	12.9	20.3	11 7	4 33.23	+23 21.1	2.041	2.966	8.3	20.7
11 17	4 32.53	+24 36.0	1.119	2.088	7.3	20.1	11 17	4 26.81	+22 43.2	2.001	2.970	4.6	20.5
11 27	4 20.18	+25 5.4	1.121	2.106	2.1	19.8	11 27	4 19.45	+22 0.5	1.988	2.975	0.7	20.2
12 7	4 7.90	+25 24.7	1.149	2.124	5.1	20.1	12 7	4 12.08	+21 15.9	2.005	2.980	3.3	20.4
12 17	3 57.48	+25 36.2	1.203	2.143	10.4	20.4	12 17	4 5.59	+20 33.0	2.050	2.986	7.0	20.7
12 27	3 50.28	+25 44.6	1.280	2.162	15.1	20.7	12 27	4 0.75	+19 55.4	2.122	2.993	10.4	20.9
1 6	3 46.88	+25 54.3	1.377	2.181	18.8	21.0	1 6	3 58.04	+19 25.7	2.217	3.001	13.2	21.1
99217	2001 HJ ₄₈		11 28.5 301°82	9°2/25.5	18		28812	2000 JS ₁₁		11 28.5 142°89	1°2/27.9	18	
10 28	4 42.49	- 0 29.4	1.656	2.498	14.9	19.2	10 28	4 43.39	+20 35.1	2.156	3.007	11.6	19.6
11 7	4 36.85	- 1 22.9	1.589	2.486	12.2	19.0	11 7	4 36.98	+19 45.5	2.091	3.014	8.2	19.4
11 17	4 28.97	- 2 1.4	1.544	2.473	9.9	18.9	11 17	4 28.81	+18 50.9	2.052	3.021	4.5	19.2
11 27	4 19.73	- 2 18.5	1.525	2.461	9.2	18.8	11 27	4 19.71	+17 54.0	2.042	3.027	1.2	18.9
12 7	4 10.28	- 2 10.3	1.530	2.449	10.5	18.8	12 7	4 10.66	+16 58.7	2.062	3.033	3.8	19.1
12 17	4 1.79	- 1 35.9	1.561	2.437	13.2	19.0	12 17	4 2.56	+16 8.8	2.112	3.039	7.5	19.4
12 27	3 55.28	- 0 37.6	1.614	2.425	16.1	19.1	12 27	3 56.21	+15 27.7	2.190	3.044	10.8	19.6
1 6	3 51.40	+ 0 39.8	1.685	2.414	18.8	19.3	1 6	3 52.06	+14 57.6	2.290	3.049	13.6	19.8
427640	2003 UB ₃₄₈		11 28.5 14°25	0°1/28.5	18		402802	2007 DN ₆₈		11 28.5 22°03	6°2/30.9	17	
10 28	4 44.49	+21 1.5	1.019	1.905	18.6	20.8	10 28	4 45.83	+36 54.1	1.699	2.525	15.3	20.8
11 7	4 39.32	+21 7.4	0.969	1.907	13.4	20.5	11 7	4 39.61	+37 32.4	1.637	2.531	12.1	20.6
11 17	4 30.66	+21 8.4	0.938	1.912	7.4	20.2	11 17	4 30.61	+37 53.1	1.598	2.537	8.8	20.4
11 27	4 19.96	+21 4.7	0.930	1.917	1.0	19.8	11 27	4 19.97	+37 52.6	1.584	2.544	6.5	20.3
12 7	4 9.15	+20 58.7	0.947	1.923	5.5	20.1	12 7	4 9.22	+37 30.8	1.596	2.552	6.8	20.4
12 17	4 0.15	+20 54.1	0.986	1.931	11.5	20.5	12 17	3 59.84	+36 51.7	1.635	2.560	9.4	20.5
12 27	3 54.42	+20 55.1	1.047	1.939	16.7	20.8	12 27	3 53.07	+36 2.3	1.698	2.568	12.6	20.7
1 6	3 52.62	+21 4.5	1.126	1.949	20.9	21.1	1 6	3 49.52	+35 10.2	1.784	2.577	15.6	21.0
478451	2012 KF ₄₈		11 28.5 106°60	2°4/27.6	17		259769	2004 BV ₁₂		11 28.5 319°38	1°8/29.1	18	
10 28	4 47.59	+17 33.7	1.619	2.477	14.4	21.7	10 28	4 45.44	+26 10.8	1.281	2.148	16.8	20.4
11 7	4 40.23	+16 46.0	1.571	2.497	10.2	21.5	11 7	4 39.82	+26 8.2	1.210	2.138	12.4	20.1
11 17	4 30.63	+15 56.2	1.547	2.516	5.8	21.3	11 17	4 30.96	+25 54.0	1.160	2.129	7.2	19.8
11 27	4 19.93	+15 7.8	1.551	2.534	2.4	21.1	11 27	4 20.05	+25 27.6	1.134	2.119	2.2	19.5
12 7	4 9.41	+14 25.3	1.584	2.552	5.2	21.4	12 7	4 8.81	+24 51.2	1.135	2.111	5.0	19.6
12 17	4 0.29	+13 52.4	1.645	2.570	9.4	21.7	12 17	3 59.01	+24 10.2	1.161	2.102	10.5	19.9
12 27	3 53.49	+13 31.9	1.731	2.587	13.2	21.9	12 27	3 52.12	+23 31.8	1.210	2.095	15.5	20.2
1 6	3 49.49	+13 24.8	1.838	2.603	16.2	22.2	1 6	3 48.92	+23 1.7	1.278	2.087	19.7	20.4
28056	1998 MK ₅		11 28.5 27°04	8°8/27.1	18		9983	Rickfienberg		11 28.5 6°92	1°8/28.9	18	R
10 28	4 43.63	+ 1 16.7	1.339	2.196	16.9	15.9	10 28	4 45.25	+24 22.6	1.534	2.394	14.9	17.0
11 7	4 37.77	+ 0 52.3	1.296	2.206	13.3	15.8	11 7	4 39.19	+24 56.5	1.469	2.394	10.9	16.7
11 17	4 29.44	+ 0 46.2	1.274	2.217	10.2	15.6	11 17	4 30.41	+25 24.3	1.428	2.395	6.3	16.5
11 27	4 19.78	+ 1 3.2	1.276	2.228	8.8	15.6	11 27	4 19.97	+25 44.1	1.412	2.397	2.0	16.2
12 7	4 10.19	+ 1 44.8	1.303	2.241	10.1	15.7	12 7	4 9.30	+25 55.8	1.424	2.399	4.5	16.4
12 17	4 1.97	+ 2 48.9	1.354	2.254	13.1	15.9	12 17	3 59.87	+26 1.0	1.463	2.402	9.1	16.6
12 27	3 56.17	+ 4 11.2	1.428	2.268	16.3	16.1	12 27	3 52.91	+26 3.7	1.527	2.405	13.3	16.9
1 6	3 53.33	+ 5 46.0	1.521	2.283	19.2	16.4	1 6	3 49.11	+26 7.6	1.612	2.409	16.8	17.1
159367	1977 OX		11 28.5 40°59	5°5/27.7	16		438684	2008 HS ₃₆		11 28.5 224°37	2°4/27.8	18	
10 28	4 48.19	+ 5 27.4	1.702	2.546	14.4	19.6	10 28	4 47.22	+15 30.5	1.791	2.644	13.4	22.3
11 7	4 40.13	+ 5 28.1	1.689	2.599	10.7	19.5	11 7	4 40.23	+15 19.2	1.712	2.635	9.7	22.0
11 17	4 30.33	+ 5 39.5	1.700	2.651	7.3	19.4	11 17	4 30.87	+15 8.4	1.658	2.626	5.6	21.7
11 27	4 19.86	+ 6 3.3	1.739	2.703	5.5	19.4	11 27	4 20.03	+15 0.0	1.633	2.615	2.4	21.5
12 7	4 9.89	+ 6 39.2	1.806	2.755	6.8	19.6	12 7	4 8.93	+14 55.9	1.636	2.605	5.0	21.7
12 17	4 1.37	+ 7 25.9	1.902	2.807	9.6	19.9	12 17	3 58.80	+14 58.2	1.668	2.593	9.3	21.9
12 27	3 55.01	+ 8 21.3	2.023	2.858	12.4	20.1	12 27	3 50.75	+15 8.8	1.726	2.581	13.2	22.1
1 6	3 51.14	+ 9 22.9	2.166	2.909	14.7	20.4	1 6	3 45.45	+15 28.4	1.805	2.568	16.6	22.3
393328	2014 BP ₁₈		11 28.5 202°88	0°1/28.6	18		487646	2015 OS ₆₄		11 28.5 64°80	1°4/28.2	18	
10 28	4 46.10	+22 50.0	1.957	2.805	12.7	21.6	10 28	4 46.66	+16 28.3	1.708	2.565	13.8	21.1
11 7	4 39.25	+22 34.0	1.880	2.801	9.1	21.4	11 7	4 39.72	+16 51.8	1.652	2.577	9.9	20.9
11 17	4 30.22	+22 11.7	1.829	2.797	5.1	21.2	11 17	4 30.49	+17 16.6	1.620	2.589	5.5	20.7
11 27	4 19.91	+21 43.8	1.806	2.792	0.7	20.8	11 27	4 19.97	+17 42.5	1.617	2.602	1.5	20.4
12 7	4 9.46	+21 12.7	1.813	2.787	3.8	21.1	12 7	4 9.40	+18 9.6	1.642	2.614	4.3	20.6
12 17	4 0.01	+20 41.8	1.849	2.781	8.0	21.3	12 17	4 0.01	+18 38.3	1.695	2.627	8.6	20.9
12 27	3 52.55	+20 15.0	1.912	2.775	11.8	21.5	12 27	3 52.80	+19 9.7	1.775	2.640	12.4	21.2
1 6	3 47.69	+19 55.4	1.998	2.768	14.9	21.7	1 6	3 48.35	+19 44.6	1.877	2.653	15.6	21.4
267155	2000 GV ₈₆		11 28.5 180°81	0°5/28.7	18		22005	Willnelson		11 28.5 146°02	0°4/28.7	18	
10 28	4 47.54	+23 14.7	1.994	2.839	12.6								

EPHEMERIDES

11 28.5

11 28.5

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
214122	2004 <i>XJ</i> ₄₉		11 28.5	80°37'	1.4°/28.9	17	59296	1999 <i>CU</i> ₆₄		11 28.5	217°80'	3.5°/30.5	18 R
10 28	4 49.76	+24 32.6	1.279	2.142	17.1	20.8	10 28	4 45.94	+34 12.1	2.260	3.079	12.3	19.0
11 7	4 42.57	+24 43.1	1.228	2.154	12.4	20.6	11 7	4 39.05	+33 54.1	2.177	3.073	9.4	18.8
11 17	4 32.26	+24 44.6	1.198	2.167	7.0	20.3	11 17	4 30.09	+33 21.5	2.118	3.067	6.2	18.6
11 27	4 20.21	+24 36.1	1.194	2.179	1.8	20.0	11 27	4 19.96	+32 33.5	2.087	3.060	3.7	18.5
12 7	4 8.20	+24 19.6	1.217	2.192	4.9	20.2	12 7	4 9.76	+31 32.3	2.086	3.053	4.3	18.5
12 17	3 57.94	+23 59.3	1.266	2.205	10.1	20.6	12 17	4 0.60	+30 22.1	2.115	3.045	7.3	18.7
12 27	3 50.71	+23 40.8	1.338	2.217	14.7	20.9	12 27	3 53.38	+29 9.0	2.172	3.037	10.4	18.9
1 6	3 47.09	+23 28.7	1.430	2.229	18.5	21.2	1 6	3 48.65	+27 59.2	2.253	3.029	13.3	19.0
435491	2008 <i>GF</i> ₄₃		11 28.5	227°13'	2.9°/29.3	18	198072	2004 <i>RH</i> ₃₄₂		11 28.5	124°37'	0.4°/28.4	18
10 28	4 49.06	+27 45.4	1.556	2.405	15.4	21.6	10 28	4 46.20	+22 25.7	1.731	2.585	13.8	20.4
11 7	4 42.04	+28 11.6	1.483	2.401	11.4	21.4	11 7	4 39.37	+21 54.0	1.670	2.595	9.8	20.2
11 17	4 32.06	+28 27.7	1.434	2.396	7.0	21.1	11 17	4 30.29	+21 15.5	1.634	2.603	5.4	20.0
11 27	4 20.21	+28 31.1	1.410	2.392	3.1	20.9	11 27	4 19.99	+20 32.1	1.626	2.612	0.8	19.7
12 7	4 8.05	+28 21.8	1.415	2.387	5.0	21.0	12 7	4 9.73	+19 47.5	1.646	2.620	4.1	19.9
12 17	3 57.19	+28 3.0	1.447	2.382	9.4	21.2	12 17	4 0.72	+19 5.9	1.696	2.628	8.5	20.2
12 27	3 48.97	+27 40.3	1.504	2.377	13.7	21.5	12 27	3 53.92	+18 31.7	1.771	2.636	12.4	20.5
1 6	3 44.16	+27 19.5	1.581	2.372	17.4	21.7	1 6	3 49.87	+18 7.8	1.867	2.643	15.6	20.7
157006	2003 <i>QH</i> ₃		11 28.5	105°14'	1.0°/28.1	18	290266	2005 <i>SA</i> ₁₃₆		11 28.5	206°09'	0.6°/28.8	18
10 28	4 41.68	+19 39.6	2.250	3.103	11.1	20.1	10 28	4 43.92	+23 58.8	2.549	3.388	10.4	21.8
11 7	4 35.77	+19 16.5	2.186	3.109	7.9	19.9	11 7	4 37.37	+23 55.8	2.466	3.382	7.5	21.6
11 17	4 28.18	+18 50.4	2.147	3.116	4.3	19.7	11 17	4 29.12	+23 47.4	2.410	3.376	4.2	21.4
11 27	4 19.67	+18 23.0	2.137	3.123	1.0	19.5	11 27	4 19.86	+23 33.8	2.384	3.369	0.9	21.2
12 7	4 11.15	+17 56.6	2.157	3.129	3.5	19.7	12 7	4 10.46	+23 16.2	2.388	3.362	3.0	21.3
12 17	4 3.49	+17 33.7	2.207	3.136	7.1	19.9	12 17	4 1.79	+22 56.7	2.424	3.355	6.4	21.5
12 27	3 57.45	+17 16.8	2.284	3.142	10.3	20.1	12 27	3 54.63	+22 38.2	2.487	3.346	9.5	21.7
1 6	3 53.49	+17 7.4	2.383	3.149	12.9	20.3	1 6	3 49.51	+22 23.2	2.574	3.338	12.1	21.9
492546	2014 <i>OS</i> ₁₀₉		11 28.5	304°42'	2.4°/27.9	17	446057	2013 <i>CE</i> ₁₂₄		11 28.5	202°95'	5.1°/26.4	18
10 28	4 43.31	+15 11.2	1.761	2.622	13.2	21.1	10 28	4 42.33	+ 6 53.6	2.186	3.032	11.6	21.6
11 7	4 37.53	+15 8.6	1.680	2.606	9.6	20.8	11 7	4 36.28	+ 6 13.3	2.118	3.029	8.9	21.4
11 17	4 29.44	+15 7.8	1.622	2.591	5.6	20.6	11 17	4 28.52	+ 5 39.3	2.076	3.026	6.3	21.3
11 27	4 19.87	+15 10.2	1.592	2.575	2.4	20.3	11 27	4 19.77	+ 5 15.3	2.061	3.022	5.2	21.2
12 7	4 9.96	+15 17.5	1.590	2.560	4.9	20.5	12 7	4 10.94	+ 5 4.1	2.076	3.018	6.6	21.3
12 17	4 0.93	+15 31.2	1.616	2.545	9.2	20.7	12 17	4 2.91	+ 5 7.2	2.118	3.014	9.3	21.4
12 27	3 53.88	+15 52.7	1.667	2.530	13.2	20.9	12 27	3 56.44	+ 5 24.6	2.186	3.009	12.0	21.6
1 6	3 49.49	+16 22.3	1.739	2.515	16.6	21.1	1 6	3 52.06	+ 5 55.1	2.276	3.005	14.5	21.8
259993	2004 <i>FP</i> ₈₂		11 28.5	110°51'	2.9°/27.6	18	104139	2000 <i>EA</i> ₆₅		11 28.5	91°17'	3.9°/26.9	18
10 28	4 43.62	+13 43.3	1.929	2.785	12.5	20.6	10 28	4 43.52	+12 11.3	1.923	2.778	12.6	19.6
11 7	4 37.35	+13 28.1	1.867	2.790	9.0	20.4	11 7	4 37.12	+11 22.0	1.875	2.796	9.1	19.4
11 17	4 29.13	+13 15.1	1.830	2.795	5.4	20.2	11 17	4 28.92	+10 35.7	1.853	2.814	5.7	19.2
11 27	4 19.80	+13 6.5	1.820	2.800	2.9	20.0	11 27	4 19.82	+ 9 56.2	1.858	2.832	3.9	19.2
12 7	4 10.43	+13 4.2	1.840	2.805	5.0	20.2	12 7	4 10.84	+ 9 27.0	1.893	2.850	5.8	19.3
12 17	4 2.03	+13 9.8	1.888	2.810	8.6	20.4	12 17	4 2.93	+ 9 10.1	1.955	2.867	9.0	19.5
12 27	3 55.47	+13 24.4	1.962	2.815	12.0	20.6	12 27	3 56.85	+ 9 6.8	2.043	2.884	12.1	19.8
1 6	3 51.29	+13 47.8	2.058	2.820	14.8	20.8	1 6	3 53.07	+ 9 16.4	2.153	2.901	14.7	20.0
70200	1999 <i>RO</i> ₂₂		11 28.5	43°91'	0.0°/28.4	18	163911	2003 <i>SA</i> ₂₃₉		11 28.5	261°69'	3.7°/29.9	18
10 28	4 44.40	+23 23.8	1.568	2.429	14.6	19.3	10 28	4 47.02	+31 33.1	1.857	2.691	13.9	20.1
11 7	4 38.32	+22 55.1	1.507	2.434	10.5	19.1	11 7	4 40.38	+31 49.0	1.771	2.678	10.5	19.8
11 17	4 29.79	+22 18.1	1.469	2.439	5.8	18.8	11 17	4 31.10	+31 52.2	1.709	2.664	6.9	19.6
11 27	4 19.90	+21 35.0	1.458	2.445	0.8	18.5	11 27	4 20.16	+31 40.4	1.674	2.650	4.0	19.4
12 7	4 10.00	+20 49.3	1.475	2.450	4.2	18.8	12 7	4 8.86	+31 13.8	1.667	2.635	5.0	19.4
12 17	4 1.41	+20 6.0	1.519	2.456	9.0	19.1	12 17	3 58.62	+30 35.8	1.688	2.621	8.6	19.6
12 27	3 55.16	+19 29.9	1.589	2.462	13.1	19.3	12 27	3 50.65	+29 52.3	1.736	2.606	12.4	19.8
1 6	3 51.83	+19 4.4	1.679	2.468	16.6	19.6	1 6	3 45.69	+29 9.6	1.805	2.591	15.7	20.0
471339	2011 <i>ON</i> ₄₅		11 28.5	14°80'	0.9°/29.9	17	131363	2001 <i>KF</i> ₇		11 28.5	132°64'	0.3°/28.3	18
10 28	4 28.14	+30 45.3	9.066	9.884	3.4	21.4	10 28	4 41.28	+22 24.7	2.798	3.640	9.5	20.0
11 7	4 25.39	+30 44.1	8.988	9.887	2.5	21.3	11 7	4 35.20	+21 45.0	2.733	3.652	6.7	19.8
11 17	4 22.24	+30 40.2	8.938	9.889	1.6	21.2	11 17	4 27.78	+21 0.6	2.695	3.663	3.7	19.6
11 27	4 18.89	+30 33.7	8.918	9.892	1.0	21.2	11 27	4 19.68	+20 13.1	2.687	3.673	0.5	19.4
12 7	4 15.51	+30 25.1	8.929	9.895	1.2	21.2	12 7	4 11.63	+19 25.1	2.711	3.684	2.8	19.6
12 17	4 12.31	+30 14.6	8.970	9.898	2.0	21.3	12 17	4 4.33	+18 39.5	2.766	3.694	5.9	19.8
12 27	4 9.46	+30 3.0	9.041	9.901	2.9	21.4	12 27	3 58.39	+17 59.2	2.849	3.704	8.6	20.0
1 6	4 7.12	+29 51.0	9.140	9.904	3.7	21.4	1 6	3 54.19	+17 26.1	2.957	3.713	10.9	20.2
147161	2002 <i>VP</i> ₃		11 28.5	302°34'	2.5°/29.3	18	482279	2011 <i>SO</i> ₁₃₅		11 28.5	86°84'	5.5°/26.3	17
10 28	4 45.62	+27 56.1	1.378	2.238	16.3	20.0	10 28	4 43.91	+ 8 54.0	1.783	2.638	13.4	21.5
11 7	4 39.97	+27 54.9	1.296	2.220	12.1	19.7	11 7	4 37.46	+ 7 48.4	1.740	2.657	10.0	21.4
11 17	4 31.11	+27 40.5	1.235	2.201	7.3	19.4	11 17	4 29.13	+ 6 49.1	1.721	2.676	6.9	21.2
11 27	4 20.13	+27 11.4	1.199	2.182	2.9	19.1	11 27	4 19.86	+ 6 1.2	1.730	2.695	5.5	21.2
12 7	4 8.66	+26 29.6	1.190	2.164	5.1	19.2	12 7	4 10.75	+ 5 28.5	1.768	2.714	7.2	21.3
12 17	3 58.46	+25 40.1	1.206	2.146	10.3	19.4	12 17	4 2.79	+ 5 13.2	1.832	2.732	10.2	21.6
12 27	3 51.05	+24 50.7	1.246	2.129	15.3	19.7	12 27	3 56.78	+ 5 15.5	1.921	2.750	13.2	21.8
1 6	3 47.29	+24 8.4	1.305	2.112	19.5	19.9	1 6	3 53.16	+ 5 33.6	2.030	2.768	15.8	22.0
66139	1998 <i>SH</i> ₁₃₈		11 28.5	60°11'	0.3°/28.4	18	14769	2175 <i>T</i> ₋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
118623	2000 <i>HJ</i> ₂₂		11 28.5 184°52	0°5/28.7	18		296752	2009 <i>UB</i> ₁₄		11 28.5 104°85	5°0/26.3	18	
10 28	4 47.33	+23 29.9	1.854	2.702	13.3	20.4	10 28	4 40.91	+7 22.2	2.232	3.080	11.3	20.2
11 7	4 40.27	+23 25.0	1.782	2.702	9.6	20.1	11 7	4 35.17	+6 34.6	2.177	3.089	8.6	20.0
11 17	4 30.88	+23 13.4	1.735	2.702	5.4	19.9	11 17	4 27.88	+5 53.2	2.147	3.097	6.0	19.9
11 27	4 20.14	+22 55.4	1.715	2.702	1.0	19.6	11 27	4 19.75	+5 21.4	2.145	3.106	5.0	19.8
12 7	4 9.27	+22 32.8	1.726	2.700	3.8	19.8	12 7	4 11.64	+5 2.3	2.172	3.114	6.3	19.9
12 17	3 59.49	+22 8.7	1.765	2.699	8.2	20.1	12 17	4 4.35	+4 57.3	2.227	3.123	8.9	20.1
12 27	3 51.84	+21 47.3	1.831	2.696	12.1	20.3	12 27	3 58.59	+5 6.5	2.308	3.131	11.5	20.3
1 6	3 46.95	+21 31.9	1.919	2.694	15.3	20.5	1 6	3 54.78	+5 28.8	2.410	3.139	13.8	20.5
306175	2010 <i>TQ</i> ₂₄		11 28.5 135°80	3°2/29.8	18 R		261427	2005 <i>UN</i> ₅₁₄		11 28.5 85°36	1°1/28.1	18	
10 28	4 51.14	+30 50.4	1.543	2.383	15.9	20.9	10 28	4 43.35	+18 54.7	1.980	2.835	12.3	21.3
11 7	4 43.31	+30 41.3	1.482	2.394	11.9	20.7	11 7	4 37.18	+18 42.9	1.918	2.843	8.7	21.1
11 17	4 32.62	+30 16.4	1.444	2.404	7.4	20.4	11 17	4 29.09	+18 28.9	1.881	2.850	4.8	20.9
11 27	4 20.37	+29 34.7	1.433	2.413	3.5	20.2	11 27	4 19.92	+18 14.1	1.872	2.858	1.2	20.6
12 7	4 8.19	+28 39.3	1.450	2.422	4.9	20.3	12 7	4 10.72	+18 0.4	1.893	2.865	3.9	20.8
12 17	3 57.64	+27 36.3	1.495	2.430	9.2	20.6	12 17	4 2.51	+17 50.2	1.942	2.873	7.8	21.1
12 27	3 49.89	+26 33.7	1.565	2.438	13.3	20.9	12 27	3 56.14	+17 45.6	2.018	2.880	11.3	21.3
1 6	3 45.52	+25 38.2	1.657	2.445	16.8	21.1	1 6	3 52.12	+17 48.2	2.116	2.888	14.2	21.5
305850	2009 <i>EO</i> ₅		11 28.5 284°58	0°9/28.3	18		395250	2010 <i>OS</i> ₈₆		11 28.5 249°04	2°0/29.1	18	
10 28	4 44.66	+19 15.3	1.745	2.604	13.5	20.7	10 28	4 47.57	+25 20.6	1.731	2.580	14.0	20.7
11 7	4 38.49	+19 14.0	1.672	2.599	9.7	20.4	11 7	4 40.74	+25 54.9	1.660	2.579	10.3	20.5
11 17	4 29.98	+19 10.5	1.623	2.593	5.4	20.2	11 17	4 31.30	+26 22.7	1.612	2.577	6.1	20.3
11 27	4 20.03	+19 5.5	1.601	2.587	1.1	19.8	11 27	4 20.24	+26 41.8	1.592	2.576	2.3	20.0
12 7	4 9.87	+19 0.6	1.608	2.581	4.2	20.1	12 7	4 8.92	+26 51.9	1.601	2.574	4.3	20.2
12 17	4 0.72	+18 58.0	1.643	2.576	8.7	20.3	12 17	3 58.70	+26 54.6	1.638	2.573	8.6	20.4
12 27	3 53.67	+19 0.3	1.703	2.570	12.7	20.6	12 27	3 50.79	+26 53.8	1.701	2.571	12.6	20.6
1 6	3 49.35	+19 9.4	1.784	2.565	16.1	20.8	1 6	3 45.89	+26 53.4	1.785	2.570	15.9	20.9
158712	2003 <i>GZ</i> ₄₂		11 28.5 203°02	2°0/28.0	18		443069	2013 <i>GC</i> ₁₁		11 28.6 16°76	3°7/27.4	18	
10 28	4 47.32	+15 24.1	1.953	2.803	12.7	20.5	10 28	4 42.70	+12 33.1	1.734	2.595	13.4	20.6
11 7	4 40.16	+15 28.6	1.878	2.799	9.1	20.3	11 7	4 36.93	+12 9.0	1.672	2.597	9.8	20.4
11 17	4 30.82	+15 34.5	1.828	2.795	5.2	20.1	11 17	4 29.05	+11 48.3	1.634	2.599	6.0	20.2
11 27	4 20.15	+15 42.7	1.806	2.790	2.0	19.9	11 27	4 19.95	+11 33.9	1.623	2.601	3.7	20.1
12 7	4 9.26	+15 54.1	1.815	2.785	4.5	20.0	12 7	4 10.78	+11 28.5	1.640	2.603	5.7	20.2
12 17	3 59.31	+16 9.9	1.853	2.779	8.5	20.2	12 17	4 2.63	+11 33.8	1.684	2.605	9.5	20.4
12 27	3 51.27	+16 31.3	1.918	2.772	12.1	20.5	12 27	3 56.46	+11 50.7	1.753	2.608	13.0	20.7
1 6	3 45.79	+16 59.0	2.005	2.765	15.2	20.7	1 6	3 52.82	+12 18.5	1.843	2.611	16.1	20.9
149800	2005 <i>JR</i> ₁₀₄		11 28.5 135°75	5°2/26.1	18		274670	2008 <i>TL</i> ₁₇₇		11 28.6 358°53	2°7/27.6	17	
10 28	4 42.60	+6 58.9	2.211	3.055	11.6	21.2	10 28	4 41.66	+12 42.2	2.219	3.071	11.2	20.2
11 7	4 36.35	+6 3.5	2.156	3.066	8.8	21.0	11 7	4 35.86	+12 38.8	2.150	3.071	8.2	20.0
11 17	4 28.51	+5 14.3	2.128	3.076	6.3	20.9	11 17	4 28.36	+12 38.5	2.106	3.071	4.9	19.8
11 27	4 19.83	+4 35.4	2.128	3.086	5.3	20.8	11 27	4 19.86	+12 43.0	2.091	3.070	2.8	19.6
12 7	4 11.18	+4 9.9	2.157	3.095	6.6	20.9	12 7	4 11.25	+12 53.4	2.106	3.070	4.5	19.7
12 17	4 3.40	+3 59.6	2.214	3.104	9.2	21.1	12 17	4 3.42	+13 10.7	2.149	3.070	7.7	19.9
12 27	3 57.21	+4 4.7	2.296	3.113	11.8	21.3	12 27	3 57.14	+13 35.3	2.220	3.071	10.8	20.1
1 6	3 53.04	+4 23.6	2.400	3.121	14.0	21.5	1 6	3 52.93	+14 7.0	2.313	3.071	13.5	20.3
50798	2000 <i>FL</i> ₂₆		11 28.5 63°62	3°6/29.9	18		410670	2008 <i>SF</i> ₂₆₇		11 28.6 97°41	4°1/25.9	18	
10 28	4 45.12	+31 35.2	2.230	3.058	12.1	18.3	10 28	4 41.50	+9 11.4	2.700	3.541	9.8	21.4
11 7	4 38.53	+32 11.0	2.165	3.067	9.1	18.1	11 7	4 35.25	+8 1.5	2.658	3.568	7.3	21.3
11 17	4 29.88	+32 36.6	2.125	3.076	6.1	17.9	11 17	4 27.79	+6 55.8	2.643	3.594	5.0	21.2
11 27	4 20.03	+32 49.9	2.112	3.084	3.8	17.8	11 27	4 19.77	+5 57.7	2.659	3.620	4.1	21.2
12 7	4 10.05	+32 50.6	2.129	3.093	4.5	17.9	12 7	4 11.87	+5 10.4	2.705	3.645	5.4	21.3
12 17	4 1.04	+32 40.8	2.175	3.102	7.3	18.1	12 17	4 4.76	+4 35.9	2.781	3.670	7.6	21.5
12 27	3 53.91	+32 24.3	2.248	3.111	10.2	18.3	12 27	3 58.99	+4 15.1	2.884	3.694	9.8	21.7
1 6	3 49.23	+32 5.6	2.344	3.120	12.8	18.5	1 6	3 54.89	+4 7.3	3.010	3.718	11.7	21.9
6345	Hideo		11 28.5 191°93	1°9/27.7	18		65212	2002 <i>EU</i> ₁		11 28.6 294°71	23°3/22.3	18	
10 28	4 41.12	+15 13.3	2.573	3.422	10.0	17.4	10 28	4 48.99	-27 46.7	1.228	1.963	24.9	19.2
11 7	4 35.28	+15 0.4	2.500	3.421	7.2	17.2	11 7	4 42.19	-29 29.6	1.196	1.957	23.9	19.1
11 17	4 27.95	+14 48.1	2.453	3.420	4.2	17.0	11 17	4 32.20	-30 24.7	1.176	1.951	23.4	19.0
11 27	4 19.76	+14 37.8	2.436	3.418	1.9	16.8	11 27	4 20.40	-30 20.1	1.170	1.945	23.4	19.0
12 7	4 11.49	+14 31.2	2.450	3.417	3.7	17.0	12 7	4 8.58	-29 11.7	1.179	1.939	23.9	19.0
12 17	4 3.89	+14 29.6	2.493	3.415	6.8	17.2	12 17	3 58.45	-27 3.0	1.202	1.933	25.0	19.1
12 27	3 57.65	+14 34.3	2.564	3.413	9.6	17.3	12 27	3 51.35	-24 4.7	1.238	1.927	26.2	19.2
1 6	3 53.24	+14 45.8	2.658	3.410	12.1	17.5	1 6	3 47.89	-20 31.3	1.288	1.922	27.6	19.3
523620	2007 <i>RH</i> ₂₈₃		11 28.5 162°57	0°6/30.9	18		83533	2001 <i>SA</i> ₁₅₈		11 28.6 168°74	3°7/30.3	18	
10 28	4 24.30	+35 50.6	20.397	21.191	1.6	22.1	10 28	4 46.39	+33 28.6	2.245	3.065	12.3	19.7
11 7	4 22.61	+35 49.1	20.318	21.194	1.3	22.1	11 7	4 39.45	+33 39.9	2.171	3.068	9.4	19.5
11 17	4 20.74	+35 46.0	20.266	21.196	0.9	22.0	11 17	4 30.42	+33 38.6	2.122	3.070	6.3	19.4
11 27	4 18.79	+35 41.4	20.243	21.199	0.7	22.0	11 27	4 20.17	+33 23.2	2.101	3.072	4.0	19.2
12 7	4 16.83	+35 35.3	20.250	21.201	0.7	22.0	12 7	4 9.83	+32 54.4	2.109	3.074	4.6	19.3
12 17	4 14.94	+35 28.1	20.287	21.204	1.0	22.0	12 17	4 0.50	+32 15.3	2.147	3.075	7.3	19.4
12 27	4 13.20	+35 19.9	20.354	21.206	1.4	22.1	12 27	3 53.13	+31 31.0	2.212	3.076	10.3	19.6
1 6	4 11.69	+35 11.0	20.448	21.208	1.7	22.1	1 6	3 48.27	+30 46.7	2.301	3.076	13.0	19.8
147618	2004 <i>HG</i> ₁₀		11 28.5 277°38	1°6/29.0	18		430890	2005 <i>QN</i> ₁₈₀		11 28.6 50°55	1°1/28		

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
22211	3106 T_{-1}		11 28.6	99°19	0°1/28.5	18	29146	McHone		11 28.6	280°04	14°5/	3.1 18
10 28	4 49.93	+22 49.8	1.514	2.369	15.4	18.3	10 28	5 1.61	+56 52.6	1.807	2.517	18.8	18.4
11 7	4 42.16	+22 24.1	1.467	2.391	11.0	18.1	11 7	4 53.19	+58 23.3	1.716	2.491	17.2	18.3
11 17	4 31.89	+21 51.0	1.443	2.412	6.0	17.9	11 17	4 39.39	+59 26.6	1.643	2.465	15.7	18.1
11 27	4 20.36	+21 12.2	1.447	2.434	0.8	17.6	11 27	4 21.55	+59 49.9	1.590	2.439	14.7	18.0
12 7	4 9.06	+20 31.5	1.480	2.454	4.4	17.9	12 7	4 2.46	+59 25.5	1.559	2.412	14.6	17.9
12 17	3 59.35	+19 53.6	1.540	2.474	9.1	18.2	12 17	3 45.39	+58 14.4	1.549	2.385	15.5	17.9
12 27	3 52.24	+19 23.2	1.626	2.493	13.2	18.5	12 27	3 33.02	+56 27.1	1.560	2.358	17.2	17.9
1 6	3 48.21	+19 3.0	1.732	2.512	16.5	18.8	1 6	3 26.51	+54 18.8	1.591	2.331	19.4	18.0
70695	1999 UL_{25}		11 28.6	302°99	0°4/28.7	18	206487	2003 UG_{68}		11 28.6	306°69	2°7/27.6	18
10 28	4 44.37	+23 49.2	1.634	2.493	14.2	18.7	10 28	4 43.25	+16 24.8	1.645	2.510	13.8	20.8
11 7	4 38.47	+23 30.0	1.560	2.486	10.3	18.4	11 7	4 37.56	+15 49.7	1.574	2.503	10.0	20.5
11 17	4 30.06	+23 2.6	1.510	2.479	5.8	18.1	11 17	4 29.54	+15 13.1	1.527	2.496	5.8	20.3
11 27	4 20.15	+22 28.0	1.486	2.472	0.9	17.8	11 27	4 20.11	+14 38.5	1.507	2.489	2.7	20.1
12 7	4 10.04	+21 49.0	1.490	2.465	4.2	18.0	12 7	4 10.52	+14 9.4	1.514	2.483	5.3	20.2
12 17	4 1.07	+21 10.3	1.522	2.459	8.9	18.3	12 17	4 1.98	+13 49.3	1.549	2.477	9.6	20.5
12 27	3 54.38	+20 36.6	1.579	2.452	13.2	18.5	12 27	3 55.55	+13 41.0	1.608	2.470	13.6	20.7
1 6	3 50.61	+20 11.8	1.656	2.446	16.7	18.7	1 6	3 51.86	+13 45.2	1.688	2.465	17.0	20.9
364236	2006 SN_{150}		11 28.6	348°25	1°8/29.1	17	130399	2000 NG_{13}		11 28.6	169°29	1°1/28.2	18
10 28	4 41.47	+25 14.6	1.327	2.199	16.0	20.1	10 28	4 48.95	+20 20.4	1.633	2.487	14.5	20.2
11 7	4 36.94	+25 27.4	1.257	2.188	11.8	19.8	11 7	4 41.59	+19 52.8	1.567	2.491	10.4	19.9
11 17	4 29.44	+25 31.4	1.209	2.179	6.9	19.5	11 17	4 31.71	+19 19.9	1.526	2.495	5.7	19.7
11 27	4 20.07	+25 25.8	1.186	2.171	2.1	19.2	11 27	4 20.41	+18 43.8	1.512	2.498	1.2	19.4
12 7	4 10.38	+25 11.9	1.188	2.164	4.8	19.4	12 7	4 9.06	+18 8.0	1.527	2.500	4.6	19.6
12 17	4 1.97	+24 53.2	1.215	2.158	9.9	19.6	12 17	3 58.98	+17 36.4	1.571	2.501	9.3	19.9
12 27	3 56.20	+24 35.1	1.265	2.154	14.6	19.9	12 27	3 51.29	+17 13.2	1.639	2.502	13.4	20.1
1 6	3 53.83	+24 22.0	1.335	2.152	18.6	20.1	1 6	3 46.58	+17 0.8	1.730	2.502	16.8	20.4
20334	Glewitsky		11 28.6	237°24	0°2/28.5	18	71798	2000 SD_{240}		11 28.6	257°68	13°1/21.4	18
10 28	4 48.19	+21 8.1	1.662	2.516	14.2	19.0	10 28	4 46.06	+ 1 21.6	1.163	2.024	18.5	18.9
11 7	4 41.27	+21 7.0	1.582	2.505	10.3	18.8	11 7	4 40.04	- 1 47.3	1.113	2.019	15.4	18.7
11 17	4 31.68	+21 1.4	1.525	2.494	5.8	18.5	11 17	4 31.05	- 4 43.9	1.086	2.013	13.4	18.6
11 27	4 20.39	+20 51.5	1.496	2.482	0.8	18.1	11 27	4 20.33	- 7 10.8	1.083	2.007	13.5	18.6
12 7	4 8.75	+20 38.8	1.495	2.470	4.3	18.3	12 7	4 9.51	- 8 55.2	1.103	2.000	15.7	18.7
12 17	3 58.19	+20 26.2	1.523	2.457	9.2	18.6	12 17	4 0.17	- 9 51.1	1.145	1.994	18.9	18.9
12 27	3 49.94	+20 17.6	1.576	2.443	13.6	18.8	12 27	3 53.59	-10 0.8	1.204	1.988	22.1	19.1
1 6	3 44.74	+20 15.9	1.651	2.429	17.2	19.0	1 6	3 50.43	- 9 31.9	1.276	1.981	24.9	19.3
70659	1999 TZ_{265}		11 28.6	152°79	0°1/28.6	18	158147	2001 FH_{130}		11 28.6	168°92	3°1/26.9	18
10 28	4 46.20	+24 9.4	2.256	3.096	11.5	20.1	10 28	4 40.60	+12 39.3	2.522	3.371	10.1	20.2
11 7	4 39.01	+23 31.9	2.189	3.106	8.3	19.9	11 7	4 34.92	+11 57.8	2.454	3.373	7.4	20.0
11 17	4 30.04	+22 47.1	2.148	3.115	4.6	19.7	11 17	4 27.79	+11 17.9	2.414	3.375	4.6	19.9
11 27	4 20.13	+21 56.4	2.137	3.123	0.7	19.4	11 27	4 19.87	+10 42.3	2.402	3.377	3.1	19.8
12 7	4 10.28	+21 3.2	2.157	3.131	3.3	19.7	12 7	4 11.91	+10 13.6	2.421	3.378	4.6	19.9
12 17	4 1.43	+20 11.3	2.208	3.138	7.0	19.9	12 17	4 4.66	+ 9 54.0	2.469	3.380	7.4	20.0
12 27	3 54.37	+19 24.7	2.287	3.144	10.3	20.1	12 27	3 58.78	+ 9 44.7	2.544	3.380	10.1	20.2
1 6	3 49.57	+18 46.6	2.389	3.150	13.0	20.3	1 6	3 54.71	+ 9 46.1	2.642	3.381	12.4	20.4
40303	1999 JU_{98}		11 28.6	121°79	4°5/27.3	18	285886	2001 PX_7		11 28.6	53°73	1°8/28.2	18
10 28	4 48.25	+11 30.8	1.536	2.393	15.0	20.1	10 28	4 46.54	+16 17.4	1.570	2.431	14.6	20.1
11 7	4 40.97	+10 59.4	1.484	2.406	11.0	19.9	11 7	4 39.67	+16 25.1	1.529	2.456	10.4	19.9
11 17	4 31.29	+10 32.9	1.456	2.419	6.9	19.6	11 17	4 30.54	+16 33.6	1.511	2.480	5.8	19.7
11 27	4 20.32	+10 14.7	1.455	2.431	4.5	19.5	11 27	4 20.24	+16 43.7	1.521	2.505	1.9	19.5
12 7	4 9.41	+10 7.9	1.482	2.443	6.6	19.7	12 7	4 10.10	+16 56.5	1.558	2.530	4.6	19.8
12 17	3 59.84	+10 14.1	1.536	2.454	10.5	19.9	12 17	4 1.32	+17 13.2	1.624	2.555	8.9	20.1
12 27	3 52.65	+10 33.9	1.615	2.464	14.3	20.2	12 27	3 54.86	+17 34.9	1.714	2.581	12.7	20.4
1 6	3 48.38	+11 5.8	1.713	2.474	17.4	20.5	1 6	3 51.20	+18 2.2	1.826	2.606	15.8	20.6
247747	2003 OT_{10}		11 28.6	141°24	0°9/28.3	18	421533	2014 OW_{146}		11 28.6	16°26	0°0/28.4	17
10 28	4 46.54	+19 15.0	2.010	2.859	12.4	20.8	10 28	4 42.94	+22 28.5	1.831	2.688	13.0	21.4
11 7	4 39.45	+19 7.2	1.948	2.869	8.8	20.6	11 7	4 37.15	+22 14.0	1.764	2.690	9.3	21.2
11 17	4 30.37	+18 56.9	1.911	2.879	4.9	20.4	11 17	4 29.23	+21 53.8	1.722	2.691	5.2	21.0
11 27	4 20.20	+18 45.1	1.903	2.889	1.0	20.2	11 27	4 20.08	+21 29.0	1.707	2.693	0.7	20.6
12 7	4 10.00	+18 33.5	1.925	2.897	3.8	20.4	12 7	4 10.85	+21 1.9	1.721	2.695	3.8	20.9
12 17	4 0.84	+18 24.3	1.976	2.906	7.7	20.6	12 17	4 2.66	+20 35.9	1.762	2.698	8.0	21.1
12 27	3 53.59	+18 20.0	2.055	2.913	11.2	20.9	12 27	3 56.46	+20 14.5	1.830	2.700	11.8	21.4
1 6	3 48.78	+18 22.1	2.156	2.920	14.2	21.1	1 6	3 52.82	+20 0.5	1.920	2.703	15.0	21.6
225095	2008 CD_{140}		11 28.6	171°26	1°6/27.9	18	7367	Giotto		11 28.6	247°44	0°2/28.7	18
10 28	4 47.55	+18 27.5	1.830	2.682	13.3	21.7	10 28	4 41.45	+22 51.0	2.570	3.414	10.1	19.3
11 7	4 40.36	+18 1.7	1.763	2.686	9.5	21.5	11 7	4 35.68	+22 42.3	2.486	3.405	7.3	19.1
11 17	4 30.95	+17 33.0	1.721	2.689	5.3	21.3	11 17	4 28.30	+22 28.9	2.428	3.395	4.1	18.9
11 27	4 20.28	+17 3.5	1.707	2.692	1.7	21.0	11 27	4 19.95	+22 11.5	2.399	3.385	0.6	18.6
12 7	4 9.55	+16 36.0	1.723	2.693	4.5	21.2	12 7	4 11.46	+21 51.5	2.401	3.375	2.9	18.7
12 17	3 59.93	+16 13.7	1.767	2.694	8.7	21.5	12 17	4 3.64	+21 31.0	2.433	3.365	6.3	19.0
12 27	3 52.41	+15 59.6	1.838	2.695	12.5	21.7	12 27	3 57.24	+21 12.7	2.493	3.355	9.4	19.1
1 6	3 47.55	+15 55.4	1.931	2.695	15.6	21.9	1 6	3 52.77	+20 58.9	2.577	3.344	12.0	19.3
62872	2000 UC_{87}		11 28.6	132°31	0°8/28.3	17	291785	2006 KY_{46}		11 28.6	31°87	1°5/28.2	18
10 28	4 50.68	+19 9.0	1.6										

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
10450	Girard		11 28.6 240°91	1.4/29.2	18		180628	2004 <i>FE</i> ₁₃₇		11 28.6 213°55	5.0/26.7	18	R
10 28	4 47.34	+27 1.6	1.863	2.706	13.5	18.1	10 28	4 42.85	+7 19.6	2.094	2.941	12.0	20.4
11 7	4 40.49	+26 37.8	1.775	2.692	9.9	17.8	11 7	4 36.80	+6 48.7	2.026	2.938	9.1	20.2
11 17	4 31.18	+26 2.6	1.713	2.677	5.8	17.6	11 17	4 28.96	+6 24.5	1.983	2.935	6.3	20.0
11 27	4 20.36	+25 16.3	1.678	2.662	1.7	17.3	11 27	4 20.08	+6 10.3	1.967	2.931	5.0	19.9
12 7	4 9.30	+24 21.6	1.672	2.647	3.9	17.4	12 7	4 11.09	+6 8.6	1.981	2.928	6.5	20.0
12 17	3 59.28	+23 23.4	1.696	2.631	8.4	17.6	12 17	4 2.91	+6 20.6	2.022	2.924	9.3	20.2
12 27	3 51.42	+22 27.6	1.746	2.614	12.4	17.8	12 27	3 56.37	+6 46.2	2.089	2.920	12.2	20.4
1 6	3 46.40	+21 39.6	1.819	2.597	15.9	18.0	1 6	3 52.00	+7 23.8	2.178	2.915	14.8	20.5
493053	2014 <i>SW</i> ₂₇₉		11 28.6 354°60	0°5/28.4	17		198999	2005 <i>WR</i> ₄₄		11 28.6 191°22	0°0/28.5	18	
10 28	4 41.09	+20 33.4	1.793	2.656	13.0	20.3	10 28	4 46.31	+23 52.9	1.724	2.577	13.9	20.5
11 7	4 35.92	+20 28.7	1.724	2.652	9.3	20.1	11 7	4 39.68	+23 16.8	1.653	2.576	10.0	20.3
11 17	4 28.60	+20 20.5	1.678	2.649	5.1	19.9	11 17	4 30.68	+22 31.6	1.607	2.576	5.6	20.0
11 27	4 20.01	+20 9.9	1.660	2.646	0.8	19.5	11 27	4 20.32	+21 39.3	1.588	2.574	0.8	19.7
12 7	4 11.27	+19 58.6	1.670	2.645	3.9	19.8	12 7	4 9.90	+20 43.8	1.598	2.573	4.1	19.9
12 17	4 3.49	+19 49.2	1.707	2.643	8.2	20.0	12 17	4 0.66	+19 50.1	1.637	2.571	8.6	20.2
12 27	3 57.66	+19 44.3	1.770	2.643	12.0	20.3	12 27	3 53.66	+19 3.7	1.702	2.569	12.7	20.5
1 6	3 54.37	+19 46.0	1.855	2.643	15.2	20.5	1 6	3 49.48	+18 28.0	1.788	2.567	16.1	20.7
356855	2011 <i>WG</i> ₃₁		11 28.6 105°08	0°0/28.5	18		371839	2007 <i>VU</i> ₃₃₄		11 28.6 98°53	0°0/28.6	15	
10 28	4 44.12	+23 26.8	1.923	2.775	12.7	20.5	10 28	4 50.63	+22 2.3	1.390	2.249	16.2	21.5
11 7	4 37.84	+22 56.3	1.859	2.782	9.1	20.3	11 7	4 42.99	+22 0.2	1.341	2.267	11.6	21.2
11 17	4 29.54	+22 18.6	1.820	2.788	5.0	20.0	11 17	4 32.54	+21 51.9	1.314	2.284	6.4	21.0
11 27	4 20.13	+21 35.6	1.809	2.795	0.7	19.7	11 27	4 20.57	+21 37.8	1.314	2.300	0.9	20.6
12 7	4 10.73	+20 50.3	1.827	2.801	3.7	20.0	12 7	4 8.73	+21 20.4	1.342	2.317	4.6	21.0
12 17	4 2.40	+20 6.8	1.874	2.807	7.8	20.3	12 17	3 58.52	+21 3.2	1.397	2.333	9.6	21.3
12 27	3 56.04	+19 29.3	1.947	2.814	11.4	20.5	12 27	3 51.12	+20 50.7	1.476	2.348	14.0	21.6
1 6	3 52.15	+19 0.7	2.043	2.820	14.4	20.7	1 6	3 47.06	+20 45.9	1.576	2.363	17.5	21.9
492765	2014 <i>QN</i> ₁₇₄		11 28.6 328°33	3°5/27.2	17		228935	2003 <i>SK</i> ₃₅₀		11 28.6 154°87	2°2/29.4	17	
10 28	4 41.23	+12 43.1	1.970	2.829	12.2	21.6	10 28	4 44.70	+27 33.3	2.352	3.187	11.3	19.9
11 7	4 35.77	+12 10.1	1.901	2.824	8.9	21.4	11 7	4 38.19	+28 0.6	2.278	3.188	8.3	19.7
11 17	4 28.42	+11 39.5	1.856	2.820	5.5	21.1	11 17	4 29.77	+28 20.8	2.230	3.190	5.1	19.5
11 27	4 19.98	+11 14.2	1.840	2.817	3.5	21.0	11 27	4 20.21	+28 32.7	2.211	3.191	2.4	19.3
12 7	4 11.43	+10 57.3	1.852	2.813	5.4	21.1	12 7	4 10.47	+28 36.2	2.222	3.193	3.6	19.4
12 17	4 3.74	+10 50.8	1.891	2.810	8.8	21.3	12 17	4 1.56	+28 32.9	2.263	3.194	6.8	19.6
12 27	3 57.77	+10 56.0	1.957	2.806	12.1	21.5	12 27	3 54.34	+28 25.8	2.331	3.195	9.9	19.8
1 6	3 54.05	+11 12.7	2.043	2.803	15.0	21.7	1 6	3 49.39	+28 18.2	2.423	3.196	12.5	20.0
237091	2008 <i>TO</i> ₁₈		11 28.6 222°87	1°9/29.2	18		351024	2003 <i>SF</i> ₄₀		11 28.6 13°64	6°9/1.9	16	
10 28	4 47.74	+26 38.5	1.983	2.822	12.9	20.7	10 28	4 44.41	+38 41.5	1.224	2.067	19.0	19.6
11 7	4 40.71	+26 54.1	1.900	2.814	9.5	20.5	11 7	4 39.30	+38 33.4	1.168	2.072	15.0	19.4
11 17	4 31.30	+27 1.7	1.843	2.806	5.7	20.2	11 17	4 30.76	+37 57.7	1.132	2.078	10.8	19.1
11 27	4 20.41	+27 0.1	1.814	2.797	2.2	20.0	11 27	4 20.33	+36 52.2	1.119	2.085	7.4	19.0
12 7	4 9.23	+26 49.6	1.814	2.787	3.9	20.1	12 7	4 10.01	+35 20.9	1.130	2.094	7.5	19.0
12 17	3 59.01	+26 32.6	1.844	2.777	7.9	20.3	12 17	4 1.64	+33 33.6	1.165	2.104	10.8	19.2
12 27	3 50.84	+26 13.4	1.900	2.766	11.7	20.5	12 27	3 56.53	+31 43.1	1.224	2.115	14.9	19.5
1 6	3 45.39	+25 56.2	1.980	2.755	14.9	20.7	1 6	3 55.20	+30 0.5	1.304	2.128	18.5	19.8
76365	2000 <i>ES</i> ₁₇₃		11 28.6 242°72	1°1/28.2	18		412761	2014 <i>OF</i> ₃₈₁		11 28.6 69°60	4°3/30.5	18	
10 28	4 43.63	+16 41.3	2.430	3.276	10.6	18.8	10 28	4 45.72	+34 10.2	2.054	2.878	13.1	20.8
11 7	4 37.29	+16 58.3	2.350	3.271	7.6	18.6	11 7	4 39.13	+34 28.3	1.990	2.888	10.1	20.6
11 17	4 29.23	+17 16.0	2.297	3.265	4.3	18.4	11 17	4 30.33	+34 32.7	1.951	2.897	6.9	20.5
11 27	4 20.11	+17 34.7	2.274	3.259	1.2	18.1	11 27	4 20.28	+34 21.6	1.938	2.907	4.5	20.3
12 7	4 10.81	+17 54.7	2.282	3.253	3.4	18.3	12 7	4 10.19	+33 55.7	1.954	2.917	5.0	20.4
12 17	4 2.18	+18 16.5	2.319	3.247	6.9	18.5	12 17	4 1.23	+33 18.5	1.999	2.927	7.8	20.6
12 27	3 55.03	+18 41.1	2.385	3.241	10.0	18.7	12 27	3 54.38	+32 35.3	2.070	2.937	10.8	20.8
1 6	3 49.91	+19 9.2	2.475	3.235	12.7	18.9	1 6	3 50.19	+31 51.8	2.164	2.947	13.5	21.0
480048	2015 <i>CN</i> ₁		11 28.6 158°72	3°9/27.3	18		197689	2004 <i>NO</i> ₃₁		11 28.6 107°53	7°1/24.9	18	
10 28	4 47.58	+12 52.1	1.624	2.481	14.4	21.6	10 28	4 45.83	+6 27.4	1.790	2.638	13.7	19.8
11 7	4 40.54	+12 18.5	1.563	2.486	10.5	21.4	11 7	4 38.84	+4 36.7	1.749	2.657	10.5	19.6
11 17	4 31.12	+11 47.5	1.527	2.491	6.4	21.2	11 17	4 29.98	+2 53.8	1.733	2.676	7.9	19.5
11 27	4 20.37	+11 22.8	1.517	2.495	3.9	21.1	11 27	4 20.21	+1 26.3	1.746	2.695	7.1	19.5
12 7	4 9.57	+11 7.6	1.536	2.499	6.2	21.2	12 7	4 10.63	+0 19.9	1.787	2.713	8.7	19.6
12 17	3 59.99	+11 4.2	1.583	2.502	10.1	21.4	12 17	4 2.25	+0 22.3	1.855	2.731	11.4	19.8
12 27	3 52.65	+11 13.9	1.655	2.505	13.9	21.7	12 27	3 55.84	+0 40.3	1.947	2.748	14.2	20.0
1 6	3 48.15	+11 36.1	1.746	2.507	17.1	21.9	1 6	3 51.86	+0 36.9	2.058	2.764	16.5	20.3
266873	2009 <i>VQ</i> ₂₂		11 28.6 7°80	1°0/28.2	17		208294	2001 <i>DO</i> ₇₈		11 28.6 135°93	2°3/27.7	18	
10 28	4 41.38	+19 29.0	2.059	2.916	11.8	21.1	10 28	4 44.53	+16 4.4	1.859	2.715	12.9	20.7
11 7	4 35.84	+19 8.9	1.991	2.916	8.4	20.9	11 7	4 38.18	+15 40.2	1.795	2.720	9.3	20.5
11 17	4 28.45	+18 45.9	1.947	2.917	4.7	20.7	11 17	4 29.78	+15 15.7	1.757	2.724	5.3	20.2
11 27	4 20.00	+18 21.6	1.932	2.918	1.1	20.4	11 27	4 20.22	+14 53.4	1.746	2.729	2.4	20.1
12 7	4 11.48	+17 58.3	1.946	2.919	3.8	20.6	12 7	4 10.61	+14 35.8	1.764	2.733	4.7	20.2
12 17	4 3.84	+17 38.8	1.989	2.920	7.6	20.9	12 17	4 2.03	+14 25.4	1.811	2.737	8.6	20.5
12 27	3 57.91	+17 25.6	2.058	2.922	11.0	21.1	12 27	3 55.38	+14 24.1	1.883	2.740	12.2	20.7
1 6	3 54.22	+17 20.2	2.149	2.923	13.9	21.3	1 6	3 51.22	+14 32.6	1.978	2.744	15.2	20.9
199840	2007 <i>EB</i> ₄₇		11 28.6 175°67	0°9/28.2	18		519433	2011 <i>UN</i> ₄₁₆		11 28.6 90°80	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
283252	2011 <i>EL</i> ₅₃		11 28.6	99°12	3°7/27.6	18 R	425851	2011 <i>ER</i> ₆₈		11 28.6	155°65	1°0/28.9	18 R
10 28	4 46.94	+12 37.0	1.612	2.470	14.4	20.2	10 28	4 48.27	+24 38.8	1.892	2.737	13.2	21.7
11 7	4 40.02	+12 18.7	1.560	2.483	10.5	20.0	11 7	4 40.95	+24 36.7	1.826	2.744	9.6	21.5
11 17	4 30.81	+12 4.3	1.532	2.497	6.4	19.8	11 17	4 31.36	+24 27.2	1.784	2.750	5.4	21.3
11 27	4 20.37	+11 56.4	1.531	2.510	3.7	19.7	11 27	4 20.49	+24 10.2	1.771	2.756	1.3	21.0
12 7	4 9.97	+11 57.2	1.558	2.522	5.8	19.8	12 7	4 9.56	+23 47.5	1.787	2.761	3.7	21.2
12 17	4 0.82	+12 8.2	1.613	2.535	9.8	20.1	12 17	3 59.77	+23 22.1	1.832	2.766	7.9	21.5
12 27	3 53.92	+12 29.9	1.693	2.547	13.5	20.4	12 27	3 52.12	+22 58.4	1.904	2.770	11.7	21.7
1 6	3 49.79	+13 1.6	1.793	2.559	16.5	20.6	1 6	3 47.19	+22 39.8	1.999	2.774	14.8	21.9
304258	2006 <i>RD</i> ₆₉		11 28.6	73°25	3°0/27.4	18	317846	2003 <i>SK</i> ₄₂₈		11 28.6	67°38	1°6/29.2	18
10 28	4 42.99	+15 0.7	1.820	2.680	12.9	20.6	10 28	4 46.37	+25 52.0	1.641	2.494	14.5	20.5
11 7	4 37.10	+14 19.2	1.758	2.684	9.3	20.4	11 7	4 39.88	+25 56.4	1.579	2.500	10.6	20.3
11 17	4 29.18	+13 37.9	1.721	2.687	5.5	20.2	11 17	4 30.88	+25 51.9	1.540	2.506	6.1	20.0
11 27	4 20.15	+13 0.2	1.711	2.691	3.1	20.0	11 27	4 20.43	+25 38.0	1.529	2.513	1.9	19.8
12 7	4 11.07	+12 29.7	1.730	2.695	5.3	20.2	12 7	4 9.91	+25 16.5	1.545	2.520	4.1	19.9
12 17	4 3.03	+12 9.2	1.777	2.699	9.0	20.4	12 17	4 0.67	+24 50.8	1.589	2.526	8.6	20.2
12 27	3 56.90	+12 0.8	1.849	2.703	12.5	20.6	12 27	3 53.80	+24 25.9	1.659	2.533	12.6	20.5
1 6	3 53.21	+12 4.9	1.942	2.707	15.5	20.9	1 6	3 49.89	+24 6.0	1.750	2.540	15.9	20.7
415594	2014 <i>QH</i> ₃₁₃		11 28.6	116°40	1°1/28.1	18	134124	Subirachs		11 28.6	251°23	3°5/27.1	18
10 28	4 43.10	+19 7.7	2.056	2.910	11.9	21.5	10 28	4 41.21	+10 11.9	2.483	3.330	10.4	20.8
11 7	4 37.05	+18 48.5	1.989	2.914	8.5	21.3	11 7	4 35.52	+9 52.6	2.404	3.320	7.7	20.7
11 17	4 29.13	+18 26.7	1.949	2.918	4.7	21.1	11 17	4 28.26	+9 37.2	2.351	3.309	5.0	20.5
11 27	4 20.14	+18 3.9	1.936	2.922	1.2	20.8	11 27	4 20.08	+9 27.9	2.327	3.299	3.5	20.4
12 7	4 11.11	+17 42.3	1.953	2.925	3.8	21.0	12 7	4 11.74	+9 26.5	2.332	3.288	5.0	20.4
12 17	4 3.00	+17 24.5	1.999	2.929	7.6	21.3	12 17	4 4.03	+9 34.4	2.367	3.277	7.7	20.6
12 27	3 56.65	+17 13.0	2.072	2.933	11.1	21.5	12 27	3 57.68	+9 52.1	2.429	3.266	10.5	20.8
1 6	3 52.59	+17 9.4	2.167	2.937	13.9	21.7	1 6	3 53.19	+10 19.0	2.513	3.254	13.0	20.9
189751	2001 <i>YJ</i> ₁₂₁		11 28.6	61°36	4°8/30.5	18	331972	2005 <i>AH</i> ₆₆		11 28.6	294°10	1°9/27.8	17
10 28	4 49.64	+33 48.5	1.398	2.239	17.2	19.2	10 28	4 41.13	+16 28.2	2.218	3.073	11.1	21.5
11 7	4 42.47	+33 52.4	1.351	2.259	13.0	19.0	11 7	4 35.62	+16 7.7	2.142	3.066	8.0	21.3
11 17	4 32.30	+33 37.2	1.325	2.278	8.6	18.8	11 17	4 28.37	+15 46.8	2.091	3.059	4.6	21.0
11 27	4 20.57	+33 1.1	1.324	2.298	5.1	18.6	11 27	4 20.09	+15 27.1	2.069	3.052	1.9	20.8
12 7	4 9.08	+32 7.1	1.350	2.318	5.9	18.7	12 7	4 11.67	+15 10.9	2.076	3.045	4.1	21.0
12 17	3 59.42	+31 2.1	1.402	2.338	9.6	19.0	12 17	4 4.00	+15 0.4	2.113	3.039	7.5	21.2
12 27	3 52.78	+29 55.1	1.479	2.359	13.5	19.3	12 27	3 57.89	+14 57.3	2.175	3.032	10.8	21.4
1 6	3 49.64	+28 53.7	1.577	2.379	16.9	19.6	1 6	3 53.87	+15 2.5	2.261	3.025	13.6	21.6
194962	2002 <i>AM</i> ₁₇₃		11 28.6	346°73	1°5/29.0	18 R	187107	2005 <i>QV</i> ₄₄		11 28.6	75°26	0°5/28.8	18
10 28	4 42.59	+24 57.5	1.180	2.057	17.2	20.2	10 28	4 49.72	+23 7.7	1.413	2.272	16.0	20.2
11 7	4 38.03	+25 0.0	1.114	2.047	12.6	19.9	11 7	4 42.25	+23 5.6	1.370	2.295	11.5	20.0
11 17	4 30.21	+24 52.6	1.068	2.039	7.3	19.6	11 17	4 32.11	+22 56.2	1.349	2.318	6.4	19.8
11 27	4 20.33	+24 34.8	1.046	2.032	1.9	19.3	11 27	4 20.60	+22 40.1	1.355	2.341	1.1	19.5
12 7	4 10.12	+24 8.9	1.049	2.026	5.1	19.5	12 7	4 9.31	+22 19.6	1.389	2.364	4.4	19.8
12 17	4 1.37	+23 39.8	1.076	2.021	10.7	19.8	12 17	3 59.67	+21 58.7	1.450	2.387	9.3	20.1
12 27	3 55.56	+23 13.7	1.125	2.017	15.8	20.0	12 27	3 52.76	+21 41.9	1.536	2.410	13.5	20.4
1 6	3 53.45	+22 55.6	1.193	2.015	20.0	20.3	1 6	3 49.07	+21 32.4	1.642	2.432	16.9	20.7
232209	2002 <i>GC</i> ₁₄₂		11 28.6	91°97	1°7/27.9	18	353945	1998 <i>YH</i> ₁₄		11 28.6	47°10	1°2/28.1	18
10 28	4 46.88	+18 3.8	1.883	2.735	12.9	20.6	10 28	4 43.65	+20 36.8	1.724	2.585	13.5	20.6
11 7	4 39.60	+17 33.9	1.839	2.762	9.2	20.4	11 7	4 37.72	+19 57.0	1.661	2.588	9.7	20.4
11 17	4 30.42	+17 2.1	1.820	2.788	5.1	20.3	11 17	4 29.60	+19 11.9	1.622	2.592	5.3	20.2
11 27	4 20.32	+16 30.9	1.830	2.814	1.8	20.1	11 27	4 20.27	+18 24.2	1.610	2.596	1.3	19.9
12 7	4 10.41	+16 3.0	1.870	2.840	4.3	20.3	12 7	4 10.91	+17 37.8	1.627	2.600	4.3	20.1
12 17	4 1.73	+15 41.3	1.938	2.865	8.1	20.6	12 17	4 2.69	+16 57.1	1.672	2.604	8.7	20.4
12 27	3 55.08	+15 28.1	2.033	2.889	11.5	20.8	12 27	3 56.55	+16 25.8	1.742	2.609	12.5	20.6
1 6	3 50.88	+15 24.5	2.151	2.913	14.3	21.1	1 6	3 53.04	+16 6.2	1.834	2.613	15.8	20.9
197132	2003 <i>UY</i> ₂₃₃		11 28.6	196°96	3°4/30.2	18	214018	2004 <i>DU</i> ₄		11 28.6	257°63	1°7/29.2	18
10 28	4 44.59	+33 4.0	2.591	3.409	10.9	20.6	10 28	4 45.29	+26 14.0	1.897	2.743	13.1	20.8
11 7	4 38.07	+33 24.1	2.512	3.407	8.3	20.4	11 7	4 38.98	+26 20.1	1.821	2.739	9.6	20.6
11 17	4 29.71	+33 34.0	2.458	3.405	5.6	20.3	11 17	4 30.38	+26 18.0	1.770	2.735	5.6	20.4
11 27	4 20.26	+33 31.9	2.433	3.403	3.6	20.1	11 27	4 20.39	+26 7.2	1.747	2.731	1.9	20.1
12 7	4 10.64	+33 18.2	2.438	3.400	4.2	20.2	12 7	4 10.21	+25 48.7	1.752	2.726	3.9	20.3
12 17	4 1.82	+32 54.9	2.472	3.398	6.6	20.3	12 17	4 1.03	+25 25.5	1.786	2.722	7.9	20.5
12 27	3 54.63	+32 25.6	2.534	3.395	9.3	20.5	12 27	3 53.91	+25 1.8	1.846	2.717	11.7	20.7
1 6	3 49.63	+31 54.7	2.621	3.391	11.8	20.7	1 6	3 49.47	+24 41.6	1.929	2.713	14.9	20.9
262139	2006 <i>SW</i> ₆₂		11 28.6	84°38	0°9/28.8	18	484338	2007 <i>UK</i> ₇		11 28.6	28°28	9°0/2.9	17
10 28	4 51.24	+22 42.5	1.385	2.243	16.3	20.4	10 28	4 47.60	+42 7.2	1.127	1.961	20.9	20.3
11 7	4 43.51	+23 5.3	1.337	2.262	11.8	20.2	11 7	4 41.71	+42 21.3	1.091	1.983	16.9	20.1
11 17	4 32.89	+23 22.0	1.312	2.281	6.6	20.0	11 17	4 32.08	+42 3.4	1.073	2.007	12.7	19.9
11 27	4 20.69	+23 31.3	1.314	2.300	1.4	19.7	11 27	4 20.60	+41 10.2	1.076	2.031	9.6	19.8
12 7	4 8.58	+23 34.0	1.343	2.318	4.5	20.0	12 7	4 9.57	+39 45.8	1.103	2.058	9.3	19.9
12 17	3 58.12	+23 32.8	1.400	2.337	9.5	20.3	12 17	4 0.96	+38 1.1	1.154	2.085	11.8	20.1
12 27	3 50.52	+23 32.0	1.481	2.355	13.9	20.6	12 27	3 56.02	+36 10.1	1.227	2.113	15.2	20.4
1 6	3 46.33	+23 35.1	1.582	2.373	17.4	20.9	1 6	3 55.07	+34 24.7	1.320	2.143	18.4	20.7
293066	2006 <i>WP</i> ₁₅₇		11 28.6	39°35	2°8/29.8	18	369160	2008 <i>SM</i> ₉₃		11 28.6	311°88	0	

EPHEMERIDES

11 28.6

11 28.6

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
270019	2001 <i>FA</i> ₈₆		11 28.6 174°73	1°1/29.0	18		399267	2014 <i>HH</i> ₄₈		11 28.6 173°00	1°3/28.1	18	
10 28	4 49.21	+25 1.4	1.961	2.802	13.0	22.1	10 28	4 45.27	+17 57.8	2.211	3.058	11.5	22.0
11 7	4 41.64	+25 2.1	1.890	2.805	9.4	21.8	11 7	4 38.55	+17 46.4	2.140	3.061	8.2	21.8
11 17	4 31.79	+24 55.3	1.843	2.808	5.4	21.6	11 17	4 30.00	+17 33.4	2.096	3.063	4.6	21.5
11 27	4 20.62	+24 40.5	1.825	2.810	1.4	21.3	11 27	4 20.40	+17 20.2	2.080	3.065	1.4	21.3
12 7	4 9.33	+24 19.2	1.837	2.811	3.7	21.5	12 7	4 10.71	+17 8.5	2.095	3.066	3.8	21.5
12 17	3 59.13	+23 54.5	1.879	2.811	7.8	21.8	12 17	4 1.89	+17 0.2	2.140	3.067	7.4	21.7
12 27	3 51.03	+23 30.5	1.947	2.811	11.5	22.0	12 27	3 54.76	+16 57.4	2.213	3.068	10.7	21.9
1 6	3 45.63	+23 11.0	2.039	2.810	14.7	22.2	1 6	3 49.84	+17 1.5	2.308	3.067	13.5	22.1
515843	2015 <i>OY</i> ₁₅		11 28.6 102°88	5°8/	1.1	18	462421	2008 <i>TM</i> ₇₃		11 28.6 269°05	1°6/29.5	18	
10 28	4 50.08	+37 29.2	1.846	2.659	14.8	21.7	10 28	4 42.21	+28 12.7	2.382	3.219	11.1	21.0
11 7	4 42.54	+37 53.5	1.786	2.672	11.7	21.5	11 7	4 36.41	+27 51.8	2.300	3.213	8.1	20.8
11 17	4 32.36	+37 59.8	1.749	2.685	8.4	21.3	11 17	4 28.83	+27 21.5	2.244	3.206	4.9	20.6
11 27	4 20.70	+37 45.0	1.737	2.697	6.1	21.2	11 27	4 20.23	+26 42.3	2.216	3.200	1.8	20.4
12 7	4 9.04	+37 10.0	1.754	2.710	6.3	21.3	12 7	4 11.54	+25 56.3	2.219	3.193	3.2	20.5
12 17	3 58.82	+36 19.1	1.799	2.722	8.9	21.4	12 17	4 3.67	+25 6.9	2.252	3.186	6.6	20.7
12 27	3 51.17	+35 19.6	1.869	2.733	11.9	21.7	12 27	3 57.42	+24 18.3	2.312	3.180	9.8	20.9
1 6	3 46.65	+34 19.2	1.962	2.745	14.7	21.9	1 6	3 53.30	+23 34.5	2.396	3.173	12.5	21.0
356556	2011 <i>SE</i> ₁₉₄		11 28.6 48°90	0°7/28.8	18		28695	Zwanzig		11 28.6 60°45	2°0/29.2	18	
10 28	4 46.20	+22 51.4	1.530	2.391	14.9	20.6	10 28	4 48.54	+25 38.6	1.397	2.256	16.2	18.9
11 7	4 39.79	+23 2.3	1.478	2.404	10.7	20.4	11 7	4 41.79	+25 59.1	1.341	2.265	11.8	18.6
11 17	4 30.84	+23 7.4	1.449	2.418	6.0	20.2	11 17	4 32.10	+26 10.4	1.308	2.275	6.9	18.4
11 27	4 20.48	+23 6.4	1.446	2.432	1.1	19.9	11 27	4 20.71	+26 11.1	1.300	2.284	2.4	18.1
12 7	4 10.14	+23 0.6	1.471	2.446	4.2	20.2	12 7	4 9.24	+26 2.1	1.320	2.294	4.7	18.3
12 17	4 1.15	+22 53.0	1.523	2.461	8.8	20.5	12 17	3 59.30	+25 46.9	1.366	2.304	9.5	18.6
12 27	3 54.60	+22 47.0	1.600	2.476	12.9	20.7	12 27	3 52.15	+25 30.8	1.436	2.315	13.9	18.9
1 6	3 51.06	+22 45.9	1.698	2.491	16.2	21.0	1 6	3 48.42	+25 18.5	1.526	2.325	17.5	19.2
61055	2000 <i>KJ</i> ₇₅		11 28.6 234°19	3°0/27.2	18		195790	2002 <i>PC</i> ₁₇₂		11 28.6 90°70	0°1/28.7	18	
10 28	4 42.89	+14 49.9	2.132	2.985	11.6	19.9	10 28	4 42.83	+22 9.4	2.369	3.215	10.8	20.8
11 7	4 36.92	+14 1.6	2.054	2.976	8.4	19.7	11 7	4 36.68	+22 4.3	2.310	3.230	7.7	20.6
11 17	4 29.13	+13 12.5	2.002	2.967	5.1	19.5	11 17	4 28.90	+21 55.2	2.276	3.244	4.3	20.4
11 27	4 20.26	+12 26.0	1.979	2.958	3.0	19.3	11 27	4 20.24	+21 42.5	2.272	3.258	0.6	20.2
12 7	4 11.25	+11 45.6	1.986	2.948	5.0	19.5	12 7	4 11.59	+21 27.9	2.298	3.272	3.0	20.4
12 17	4 3.06	+11 14.6	2.021	2.938	8.4	19.6	12 17	4 3.80	+21 13.4	2.354	3.286	6.5	20.6
12 27	3 56.51	+10 55.4	2.083	2.928	11.7	19.8	12 27	3 57.60	+21 1.4	2.437	3.300	9.5	20.9
1 6	3 52.14	+10 48.6	2.167	2.917	14.5	20.0	1 6	3 53.43	+20 53.9	2.544	3.314	12.1	21.1
92290	2000 <i>EZ</i> ₆₂		11 28.6 263°54	0°5/28.8	18		143638	2003 <i>MU</i> ₈		11 28.6 73°38	1°5/29.4	18	
10 28	4 48.79	+22 54.0	1.278	2.144	16.9	20.4	10 28	4 45.34	+27 37.9	2.138	2.977	12.1	19.9
11 7	4 42.30	+22 53.5	1.211	2.140	12.3	20.1	11 7	4 38.50	+27 22.3	2.091	3.005	8.8	19.8
11 17	4 32.55	+22 45.6	1.166	2.136	6.9	19.8	11 17	4 29.87	+26 57.5	2.069	3.032	5.1	19.6
11 27	4 20.77	+22 30.2	1.146	2.132	1.2	19.4	11 27	4 20.38	+26 24.4	2.076	3.060	1.8	19.4
12 7	4 8.70	+22 9.4	1.152	2.128	4.9	19.7	12 7	4 11.06	+25 45.3	2.113	3.087	3.3	19.6
12 17	3 58.12	+21 47.4	1.184	2.124	10.6	20.0	12 17	4 2.88	+25 3.9	2.179	3.114	6.8	19.9
12 27	3 50.48	+21 29.8	1.240	2.120	15.6	20.3	12 27	3 56.59	+24 24.3	2.273	3.140	10.0	20.1
1 6	3 46.55	+21 20.7	1.314	2.115	19.7	20.5	1 6	3 52.61	+23 50.0	2.390	3.167	12.6	20.3
329165	2012 <i>BM</i> ₁₂₀		11 28.6 22°85	2°9/27.6	17		484592	2008 <i>RM</i> ₇₁		11 28.6 166°12	4°0/30.9	17	
10 28	4 42.42	+15 8.6	1.691	2.556	13.5	21.0	10 28	4 45.55	+36 29.7	2.738	3.540	10.8	22.1
11 7	4 36.86	+14 41.8	1.632	2.560	9.8	20.7	11 7	4 38.69	+36 41.3	2.663	3.544	8.4	22.0
11 17	4 29.17	+14 15.8	1.597	2.565	5.7	20.5	11 17	4 30.06	+36 40.4	2.612	3.548	6.0	21.8
11 27	4 20.27	+13 53.6	1.588	2.570	2.9	20.4	11 27	4 20.42	+36 25.7	2.590	3.551	4.2	21.7
12 7	4 11.32	+13 38.1	1.608	2.575	5.2	20.5	12 7	4 10.72	+35 57.7	2.598	3.554	4.5	21.7
12 17	4 3.44	+13 31.6	1.654	2.581	9.2	20.8	12 17	4 1.86	+35 18.9	2.636	3.556	6.5	21.9
12 27	3 57.58	+13 35.7	1.725	2.587	12.9	21.0	12 27	3 54.67	+34 33.5	2.702	3.558	8.9	22.0
1 6	3 54.28	+13 50.7	1.818	2.594	16.0	21.2	1 6	3 49.64	+33 46.3	2.792	3.560	11.2	22.2
513296	2007 <i>BN</i> ₆₈		11 28.6 213°63	6°0/26.3	18		79954	1999 <i>CX</i> ₉₉		11 28.6 324°36	2°0/29.1	18	
10 28	4 45.35	+ 6 17.9	1.941	2.786	12.9	21.9	10 28	4 45.62	+25 11.4	1.678	2.532	14.2	19.4
11 7	4 38.78	+ 5 28.8	1.870	2.779	9.9	21.7	11 7	4 39.59	+25 43.1	1.601	2.523	10.4	19.2
11 17	4 30.20	+ 4 46.8	1.824	2.772	7.2	21.5	11 17	4 30.93	+26 8.5	1.549	2.514	6.2	18.9
11 27	4 20.43	+ 4 16.5	1.805	2.764	6.0	21.5	11 27	4 20.58	+26 25.8	1.522	2.506	2.2	18.7
12 7	4 10.49	+ 4 1.4	1.814	2.755	7.5	21.5	12 7	4 9.86	+26 34.6	1.524	2.498	4.3	18.8
12 17	4 1.44	+ 4 3.5	1.852	2.746	10.5	21.7	12 17	4 0.18	+26 36.6	1.554	2.491	8.7	19.0
12 27	3 54.19	+ 4 22.8	1.914	2.736	13.6	21.9	12 27	3 52.77	+26 35.5	1.609	2.484	12.9	19.3
1 6	3 49.33	+ 4 57.4	1.997	2.725	16.3	22.1	1 6	3 48.38	+26 35.2	1.685	2.478	16.4	19.5
517325	2014 <i>JW</i> ₁₈		11 28.6 135°37	3°2/27.2	18		411603	2011 <i>GT</i> ₅₉		11 28.6 316°95	3°2/27.3	17	
10 28	4 43.92	+14 58.2	1.812	2.670	13.1	21.8	10 28	4 40.86	+13 3.3	2.062	2.919	11.7	21.0
11 7	4 37.80	+14 7.4	1.749	2.674	9.4	21.6	11 7	4 35.56	+12 34.9	1.987	2.910	8.6	20.8
11 17	4 29.64	+13 16.4	1.711	2.677	5.6	21.4	11 17	4 28.42	+12 8.5	1.938	2.902	5.3	20.6
11 27	4 20.34	+12 29.1	1.701	2.681	3.3	21.2	11 27	4 20.21	+11 46.9	1.916	2.894	3.2	20.4
12 7	4 11.01	+11 49.4	1.720	2.684	5.5	21.4	12 7	4 11.83	+11 32.6	1.923	2.886	5.1	20.5
12 17	4 2.73	+11 20.9	1.767	2.687	9.2	21.6	12 17	4 4.24	+11 27.9	1.959	2.878	8.5	20.7
12 27	3 56.40	+11 5.8	1.839	2.690	12.7	21.8	12 27	3 58.27	+11 33.8	2.020	2.871	11.7	20.9
1 6	3 52.54	+11 4.4	1.932	2.692	15.7	22.0	1 6	3 54.48	+11 50.5	2.102	2.863	14.6	21.1
511914	2015 <i>HW</i> ₉₂		11 28.6 160°22	1°1/28.2	18		25164	Sonmastate		11 28.6 52°49	1°7/27.9	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
304307	2006 <i>SN</i> ₁₄₂		11 28.6 160°65	1°3/29.2	18		365021	2008 <i>QG</i> ₉		11 28.6 75°39	2°7/27.5	18	
10 28	4 46.24	+26 3.0	2.373	3.207	11.2	21.5	10 28	4 42.47	+13 59.3	2.230	3.081	11.2	21.2
11 7	4 39.21	+26 4.9	2.302	3.214	8.2	21.3	11 7	4 36.34	+13 28.8	2.184	3.105	8.1	21.0
11 17	4 30.36	+25 59.7	2.257	3.220	4.7	21.1	11 17	4 28.68	+13 0.0	2.164	3.128	4.8	20.9
11 27	4 20.48	+25 47.3	2.242	3.226	1.6	20.9	11 27	4 20.25	+12 35.2	2.173	3.152	2.7	20.8
12 7	4 10.53	+25 28.7	2.257	3.231	3.2	21.0	12 7	4 11.92	+12 16.8	2.211	3.175	4.5	20.9
12 17	4 1.46	+25 6.4	2.303	3.235	6.6	21.3	12 17	4 4.51	+12 6.5	2.279	3.198	7.5	21.2
12 27	3 54.11	+24 43.8	2.377	3.239	9.8	21.5	12 27	3 58.69	+12 5.5	2.374	3.220	10.4	21.4
1 6	3 48.99	+24 24.1	2.474	3.242	12.5	21.7	1 6	3 54.89	+12 13.7	2.491	3.243	12.8	21.6
119106	2001 <i>OU</i> ₅₆		11 28.6 58°67	3°9/27.7	18		44926	1999 <i>VC</i> ₃₆		11 28.6 274°49	0°5/28.9	18	
10 28	4 48.00	+13 11.6	1.279	2.148	16.7	19.3	10 28	4 44.80	+24 50.0	1.837	2.689	13.2	18.7
11 7	4 41.05	+12 50.9	1.243	2.172	12.1	19.1	11 7	4 38.77	+24 20.3	1.751	2.672	9.7	18.5
11 17	4 31.49	+12 34.6	1.229	2.196	7.2	18.9	11 17	4 30.37	+23 41.1	1.688	2.656	5.5	18.2
11 27	4 20.62	+12 26.0	1.240	2.220	4.0	18.8	11 27	4 20.52	+22 53.4	1.654	2.640	1.0	17.9
12 7	4 10.00	+12 27.3	1.278	2.245	6.4	19.0	12 7	4 10.41	+22 0.3	1.648	2.623	3.9	18.0
12 17	4 1.05	+12 40.1	1.342	2.269	10.8	19.3	12 17	4 1.27	+21 6.7	1.671	2.606	8.4	18.3
12 27	3 54.79	+13 4.5	1.429	2.294	14.8	19.6	12 27	3 54.19	+20 17.9	1.720	2.590	12.5	18.5
1 6	3 51.69	+13 39.4	1.536	2.319	18.1	19.9	1 6	3 49.82	+19 38.1	1.791	2.573	16.0	18.7
485701	2011 <i>YB</i> ₃₇		11 28.6 296°18	4°0/30.4	17		239120	2006 <i>HH</i> ₁₀₅		11 28.6 212°19	13°5/20.5	18	
10 28	4 45.30	+33 16.2	1.941	2.772	13.5	21.0	10 28	4 42.88	-14 35.8	1.942	2.719	15.5	20.3
11 7	4 39.12	+33 22.7	1.862	2.764	10.4	20.8	11 7	4 37.01	-16 33.8	1.899	2.716	14.2	20.2
11 17	4 30.54	+33 15.3	1.806	2.757	6.9	20.6	11 17	4 29.22	-18 8.1	1.879	2.713	13.5	20.1
11 27	4 20.52	+32 52.0	1.777	2.750	4.2	20.4	11 27	4 20.35	-19 10.7	1.881	2.709	13.6	20.1
12 7	4 10.29	+32 13.9	1.776	2.743	4.9	20.5	12 7	4 11.40	-19 37.2	1.905	2.706	14.5	20.2
12 17	4 1.14	+31 24.9	1.804	2.736	8.1	20.6	12 17	4 3.37	-19 27.4	1.950	2.702	15.9	20.3
12 27	3 54.14	+30 30.9	1.858	2.729	11.6	20.8	12 27	3 57.13	-18 44.6	2.013	2.698	17.4	20.4
1 6	3 49.94	+29 38.2	1.934	2.723	14.7	21.0	1 6	3 53.19	-17 35.0	2.091	2.694	18.8	20.5
255545	2006 <i>JC</i> ₁₃		11 28.6 109°77	2°7/27.9	18		171406	2006 <i>QV</i> ₁₄₅		11 28.6 215°19	1°3/29.2	18	
10 28	4 48.92	+15 47.0	1.372	2.237	16.1	20.7	10 28	4 45.71	+25 41.8	2.119	2.961	12.1	20.5
11 7	4 41.90	+15 32.0	1.317	2.246	11.6	20.5	11 7	4 39.13	+25 42.2	2.040	2.955	8.8	20.3
11 17	4 32.10	+15 17.8	1.285	2.254	6.7	20.2	11 17	4 30.47	+25 35.2	1.985	2.950	5.1	20.1
11 27	4 20.73	+15 6.8	1.279	2.262	2.8	20.0	11 27	4 20.54	+25 20.5	1.959	2.944	1.6	19.8
12 7	4 9.34	+15 1.5	1.300	2.271	5.7	20.2	12 7	4 10.43	+24 59.3	1.963	2.938	3.5	19.9
12 17	3 59.41	+15 4.3	1.348	2.279	10.5	20.5	12 17	4 1.22	+24 34.5	1.997	2.931	7.3	20.2
12 27	3 52.14	+15 17.0	1.420	2.286	14.8	20.8	12 27	3 53.86	+24 9.8	2.057	2.924	10.9	20.4
1 6	3 48.13	+15 40.0	1.511	2.294	18.4	21.0	1 6	3 48.96	+23 48.8	2.141	2.916	13.9	20.6
22655	1998 <i>QC</i> ₇		11 28.6 160°54	4°8/26.6	18		217829	2001 <i>HJ</i> ₂₀		11 28.6 112°13	16°2/21.6	17	
10 28	4 41.52	+7 4.7	2.349	3.193	11.0	18.3	10 28	4 48.37	-5 58.5	1.103	1.946	20.7	19.4
11 7	4 35.73	+6 28.7	2.286	3.196	8.3	18.1	11 7	4 41.63	-9 2.6	1.075	1.956	18.0	19.2
11 17	4 28.39	+5 58.7	2.248	3.198	5.9	17.9	11 17	4 31.95	-11 37.7	1.068	1.966	16.4	19.2
11 27	4 20.20	+5 38.0	2.239	3.201	4.8	17.9	11 27	4 20.74	-13 28.1	1.082	1.975	16.5	19.2
12 7	4 11.96	+5 28.8	2.259	3.203	6.0	18.0	12 7	4 9.71	-14 25.5	1.117	1.984	18.1	19.4
12 17	4 4.47	+5 32.6	2.308	3.205	8.5	18.1	12 17	4 0.44	-14 30.3	1.171	1.993	20.4	19.6
12 27	3 58.41	+5 49.3	2.382	3.206	11.1	18.3	12 27	3 54.08	-13 49.5	1.241	2.001	22.8	19.8
1 6	3 54.27	+6 17.8	2.479	3.208	13.4	18.5	1 6	3 51.16	-12 34.2	1.323	2.009	25.0	20.0
78593	2002 <i>SC</i> ₁₉		11 28.6 340°89	2°1/29.3	18		148906	2001 <i>WC</i> ₆₁		11 28.6 356°68	2°4/29.7	18	
10 28	4 44.87	+26 56.0	1.626	2.480	14.5	19.5	10 28	4 44.52	+28 57.2	1.868	2.712	13.4	19.9
11 7	4 39.02	+27 2.7	1.555	2.476	10.7	19.3	11 7	4 38.47	+28 51.7	1.797	2.711	9.9	19.7
11 17	4 30.57	+26 59.7	1.507	2.472	6.4	19.0	11 17	4 30.15	+28 34.9	1.749	2.711	6.1	19.5
11 27	4 20.53	+26 46.1	1.485	2.468	2.4	18.8	11 27	4 20.50	+28 6.6	1.729	2.710	2.6	19.2
12 7	4 10.28	+26 23.2	1.491	2.465	4.3	18.9	12 7	4 10.74	+27 28.6	1.737	2.710	4.0	19.3
12 17	4 1.21	+25 54.7	1.524	2.462	8.7	19.2	12 17	4 2.08	+26 45.0	1.774	2.710	7.9	19.6
12 27	3 54.48	+25 25.8	1.582	2.460	12.9	19.4	12 27	3 55.51	+26 0.9	1.836	2.710	11.6	19.8
1 6	3 50.77	+25 1.1	1.661	2.458	16.4	19.6	1 6	3 51.65	+25 21.4	1.921	2.711	14.8	20.0
306859	2001 <i>SG</i> ₂₀₀		11 28.6 14°35	3°1/29.6	18		383005	2005 <i>LR</i> ₁₀		11 28.6 152°63	2°7/27.7	17	
10 28	4 44.98	+28 47.0	1.576	2.428	15.0	20.3	10 28	4 48.44	+14 37.2	1.942	2.790	12.8	21.5
11 7	4 39.14	+29 7.5	1.513	2.431	11.2	20.1	11 7	4 40.92	+14 17.0	1.881	2.800	9.2	21.3
11 17	4 30.63	+29 16.8	1.472	2.434	6.9	19.9	11 17	4 31.35	+13 57.8	1.845	2.810	5.4	21.1
11 27	4 20.54	+29 13.1	1.458	2.438	3.4	19.7	11 27	4 20.66	+13 41.8	1.838	2.819	2.7	21.0
12 7	4 10.30	+28 57.3	1.470	2.443	4.8	19.8	12 7	4 9.97	+13 31.2	1.861	2.827	4.8	21.1
12 17	4 1.33	+28 32.8	1.510	2.448	8.9	20.0	12 17	4 0.33	+13 27.9	1.914	2.834	8.6	21.4
12 27	3 54.83	+28 5.2	1.574	2.453	12.9	20.3	12 27	3 52.67	+13 33.4	1.993	2.841	12.0	21.6
1 6	3 51.43	+27 39.7	1.659	2.460	16.3	20.5	1 6	3 47.52	+13 48.1	2.094	2.846	14.9	21.8
378160	2006 <i>WX</i> ₁		11 28.6 159°52	40°6/ 9.9	15		400387	2007 <i>YH</i> ₅₆		11 28.6 301°32	6°0/ 1.4	17	
10 28	7 49.95	+64 21.7	0.329	1.119	59.5	19.5	10 28	4 46.98	+38 21.3	1.825	2.640	14.9	20.5
11 7	7 33.09	+69 34.2	0.315	1.146	53.4	19.2	11 7	4 40.62	+38 31.6	1.744	2.631	11.9	20.3
11 17	6 36.24	+74 20.1	0.303	1.167	47.7	19.0	11 17	4 31.50	+38 22.7	1.685	2.621	8.7	20.1
11 27	4 39.69	+75 50.2	0.295	1.181	43.1	18.9	11 27	4 20.70	+37 51.6	1.652	2.612	6.3	20.0
12 7	2 54.48	+71 38.7	0.295	1.190	40.7	18.8	12 7	4 9.69	+36 58.7	1.646	2.603	6.5	20.0
12 17	2 9.21	+64 11.1	0.304	1.192	41.3	18.9	12 17	3 59.93	+35 48.9	1.668	2.594	9.2	20.1
12 27	1 58.39	+56 15.7	0.322	1.187	44.4	19.1	12 27	3 52.67	+34 29.9	1.715	2.585	12.5	20.3
1 6	2 3.16	+49 7.9	0.348	1.177	48.8	19.4	1 6	3 48.58	+33 10.5	1.784	2.577	15.6	20.5
294046	2007 <i>TU</i> ₁₄₀		11 28.6 59°84	1°1/28.3	18		445326	2010 <i>GK</i> ₇₂					

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
358720	2008 <i>BE</i> ₃₆		11 28.6 333°49	3°3/27.4	18		261173	2005 <i>TH</i> ₁₁₄		11 28.7 67°15	0°8/28.9	18	
10 28	4 42.75	+13 46.9	1.866	2.725	12.7	20.6	10 28	4 44.35	+24 18.7	1.921	2.771	12.8	21.3
11 7	4 37.02	+13 14.7	1.799	2.723	9.3	20.4	11 7	4 38.19	+24 13.8	1.857	2.779	9.2	21.1
11 17	4 29.29	+12 44.1	1.756	2.722	5.6	20.1	11 17	4 29.94	+24 2.1	1.819	2.786	5.2	20.9
11 27	4 20.39	+12 18.0	1.742	2.720	3.3	20.0	11 27	4 20.52	+23 44.0	1.808	2.793	1.2	20.6
12 7	4 11.38	+11 59.5	1.755	2.719	5.3	20.1	12 7	4 11.05	+23 21.5	1.826	2.801	3.6	20.8
12 17	4 3.32	+11 50.9	1.797	2.718	9.0	20.3	12 17	4 2.64	+22 57.4	1.873	2.809	7.6	21.0
12 27	3 57.10	+11 53.8	1.864	2.717	12.5	20.6	12 27	3 56.19	+22 35.6	1.946	2.816	11.2	21.3
1 6	3 53.27	+12 8.2	1.952	2.716	15.4	20.8	1 6	3 52.26	+22 19.0	2.041	2.824	14.2	21.5
179262	2001 <i>UC</i> ₁₅₇		11 28.6 48°71	1°0/28.2	18		49580	1999 <i>CL</i> ₁₂₆		11 28.7 349°68	2°3/29.0	18	
10 28	4 43.24	+20 22.5	1.830	2.689	13.0	19.8	10 28	4 47.26	+24 2.5	1.524	2.382	15.1	17.9
11 7	4 37.39	+19 51.7	1.768	2.694	9.3	19.6	11 7	4 41.04	+25 2.9	1.453	2.377	11.1	17.7
11 17	4 29.47	+19 16.5	1.729	2.699	5.1	19.4	11 17	4 31.89	+25 59.5	1.406	2.372	6.6	17.4
11 27	4 20.41	+18 39.1	1.718	2.704	1.2	19.1	11 27	4 20.84	+26 48.8	1.385	2.368	2.5	17.2
12 7	4 11.32	+18 2.7	1.736	2.710	4.1	19.3	12 7	4 9.35	+27 28.4	1.392	2.365	4.7	17.3
12 17	4 3.29	+17 30.9	1.783	2.715	8.2	19.6	12 17	3 58.99	+27 58.4	1.426	2.363	9.4	17.6
12 27	3 57.21	+17 7.0	1.855	2.721	11.9	19.8	12 27	3 51.15	+28 21.7	1.484	2.361	13.6	17.8
1 6	3 53.63	+16 53.0	1.949	2.727	15.0	20.1	1 6	3 46.62	+28 42.3	1.564	2.360	17.3	18.0
449412	2013 <i>HH</i> ₂₅		11 28.6 193°16	4°6/26.7	18		71080	1999 <i>XD</i> ₁₁₉		11 28.7 50°29	2°1/29.5	18	
10 28	4 42.61	+6 45.3	2.472	3.311	10.7	21.9	10 28	4 46.95	+28 25.1	1.414	2.270	16.2	18.6
11 7	4 36.49	+6 17.9	2.402	3.309	8.1	21.8	11 7	4 40.41	+28 1.6	1.368	2.290	11.8	18.4
11 17	4 28.85	+5 56.6	2.358	3.307	5.7	21.6	11 17	4 31.22	+27 24.4	1.346	2.311	6.9	18.2
11 27	4 20.33	+5 44.2	2.343	3.305	4.6	21.5	11 27	4 20.70	+26 34.6	1.349	2.332	2.5	18.0
12 7	4 11.71	+5 42.7	2.358	3.302	5.8	21.6	12 7	4 10.41	+25 36.7	1.379	2.354	4.4	18.1
12 17	4 3.79	+5 53.2	2.402	3.298	8.3	21.8	12 17	4 1.77	+24 37.0	1.436	2.376	9.0	18.5
12 27	3 57.27	+6 15.6	2.472	3.294	10.8	21.9	12 27	3 55.82	+23 42.3	1.518	2.398	13.2	18.8
1 6	3 52.60	+6 48.8	2.565	3.290	13.1	22.1	1 6	3 53.03	+22 57.4	1.620	2.421	16.6	19.1
247995	2004 <i>DJ</i> ₁₀		11 28.6 316°85	0°8/28.9	18		24670	1988 <i>VA</i> ₅		11 28.7 44°26	1°0/28.9	18	
10 28	4 43.73	+24 38.0	1.638	2.497	14.2	20.0	10 28	4 48.57	+23 38.3	1.086	1.961	18.6	17.7
11 7	4 38.21	+24 25.0	1.560	2.485	10.4	19.7	11 7	4 42.05	+23 43.7	1.050	1.982	13.3	17.5
11 17	4 30.16	+24 3.4	1.505	2.474	5.9	19.4	11 17	4 32.29	+23 40.2	1.034	2.004	7.5	17.2
11 27	4 20.53	+23 33.7	1.477	2.463	1.3	19.1	11 27	4 20.85	+23 28.1	1.042	2.028	1.5	16.9
12 7	4 10.65	+22 58.3	1.477	2.452	4.1	19.3	12 7	4 9.69	+23 10.0	1.075	2.051	5.0	17.2
12 17	4 1.84	+22 21.5	1.503	2.442	8.8	19.5	12 17	4 0.52	+22 50.7	1.133	2.076	10.5	17.6
12 27	3 55.26	+21 48.3	1.555	2.432	13.1	19.8	12 27	3 54.59	+22 35.5	1.213	2.100	15.3	18.0
1 6	3 51.62	+21 22.7	1.628	2.423	16.8	20.0	1 6	3 52.36	+22 28.1	1.312	2.125	19.1	18.3
46792	1998 <i>HK</i> ₁₅₃		11 28.6 160°80	5°8/26.1	18		436406	2010 <i>XL</i> ₃₈		11 28.7 295°09	2°2/29.4	18	
10 28	4 44.36	+3 21.3	2.439	3.268	11.1	20.1	10 28	4 46.95	+27 13.0	1.355	2.215	16.5	21.1
11 7	4 37.65	+2 36.7	2.380	3.276	8.7	20.0	11 7	4 41.18	+27 9.4	1.273	2.197	12.3	20.8
11 17	4 29.44	+2 0.5	2.348	3.284	6.6	19.8	11 17	4 32.14	+26 53.2	1.212	2.179	7.3	20.4
11 27	4 20.41	+1 36.3	2.344	3.291	5.8	19.8	11 27	4 20.90	+26 23.0	1.176	2.160	2.6	20.1
12 7	4 11.37	+1 26.4	2.370	3.297	6.9	19.9	12 7	4 9.14	+25 40.7	1.167	2.142	5.0	20.2
12 17	4 3.12	+1 31.9	2.425	3.302	9.1	20.0	12 17	3 58.66	+24 51.9	1.183	2.124	10.4	20.5
12 27	3 56.33	+1 52.2	2.506	3.306	11.4	20.2	12 27	3 51.00	+24 4.1	1.223	2.106	15.5	20.7
1 6	3 51.46	+2 25.5	2.608	3.310	13.5	20.4	1 6	3 47.03	+23 24.0	1.282	2.089	19.8	20.9
285509	2000 <i>EK</i> ₃₆		11 28.6 208°27	5°9/26.2	18		150426	2000 <i>GR</i> ₄₀		11 28.7 298°49	1°3/28.2	18	
10 28	4 43.32	+3 40.0	2.296	3.130	11.5	20.9	10 28	4 45.23	+20 0.1	1.429	2.296	15.4	20.0
11 7	4 37.12	+3 1.4	2.225	3.125	9.0	20.7	11 7	4 39.54	+19 32.9	1.353	2.284	11.1	19.7
11 17	4 29.25	+2 31.3	2.181	3.120	6.8	20.6	11 17	4 31.03	+19 0.4	1.301	2.272	6.2	19.4
11 27	4 20.41	+2 13.4	2.164	3.114	5.9	20.5	11 27	4 20.74	+18 24.7	1.274	2.260	1.5	19.1
12 7	4 11.45	+2 10.2	2.176	3.107	7.1	20.6	12 7	4 10.12	+17 49.7	1.274	2.248	5.0	19.3
12 17	4 3.23	+2 22.9	2.216	3.100	9.5	20.7	12 17	4 0.69	+17 20.0	1.300	2.236	10.2	19.6
12 27	3 56.51	+2 51.0	2.282	3.092	12.0	20.9	12 27	3 53.75	+17 0.0	1.350	2.225	14.9	19.8
1 6	3 51.78	+3 32.4	2.370	3.084	14.4	21.0	1 6	3 50.02	+16 52.3	1.420	2.214	18.8	20.0
445339	2010 <i>KR</i> ₁₀₁		11 28.6 8°29	6°7/30.6	17		158190	2001 <i>RR</i> ₁₀₂		11 28.7 10°69	2°9/29.3	18	
10 28	4 40.33	+33 25.1	1.053	1.924	19.3	19.6	10 28	4 45.60	+26 4.2	1.124	1.998	18.1	19.2
11 7	4 36.81	+34 18.0	1.006	1.928	14.9	19.4	11 7	4 40.36	+26 40.8	1.069	2.000	13.4	18.9
11 17	4 29.73	+34 51.0	0.978	1.935	10.4	19.1	11 17	4 31.65	+27 7.6	1.035	2.003	8.0	18.6
11 27	4 20.49	+34 59.4	0.972	1.944	7.1	19.0	11 27	4 20.82	+27 21.8	1.024	2.008	3.2	18.4
12 7	4 11.12	+34 43.2	0.988	1.955	7.7	19.1	12 7	4 9.77	+27 23.1	1.038	2.013	5.5	18.5
12 17	4 3.58	+34 7.8	1.027	1.969	11.5	19.3	12 17	4 0.40	+27 15.2	1.076	2.020	10.8	18.9
12 27	3 59.36	+33 22.6	1.087	1.985	15.7	19.6	12 27	3 54.23	+27 3.9	1.136	2.028	15.7	19.2
1 6	3 59.08	+32 36.5	1.166	2.003	19.4	19.9	1 6	3 51.96	+26 55.1	1.214	2.037	19.7	19.5
184686	2005 <i>SP</i> ₈₇		11 28.6 206°28	1°1/28.2	18		204979	1994 <i>TW</i> ₁₀		11 28.7 88°82	0°8/28.3	18	
10 28	4 43.23	+19 9.3	2.075	2.928	11.9	21.1	10 28	4 46.20	+20 42.6	1.790	2.644	13.4	20.7
11 7	4 37.27	+18 49.5	2.004	2.927	8.5	20.9	11 7	4 39.42	+20 15.1	1.739	2.663	9.5	20.5
11 17	4 29.40	+18 27.0	1.957	2.926	4.7	20.7	11 17	4 30.56	+19 43.1	1.713	2.682	5.2	20.2
11 27	4 20.43	+18 3.3	1.939	2.925	1.2	20.4	11 27	4 20.63	+19 8.8	1.714	2.700	1.0	20.0
12 7	4 11.36	+17 40.7	1.951	2.923	3.8	20.6	12 7	4 10.82	+18 35.1	1.745	2.718	4.0	20.2
12 17	4 3.17	+17 21.9	1.992	2.922	7.6	20.9	12 17	4 2.23	+18 5.5	1.804	2.736	8.2	20.5
12 27	3 56.71	+17 9.4	2.059	2.920	11.1	21.1	12 27	3 55.74	+17 43.4	1.890	2.754	11.8	20.8
1 6	3 52.53	+17 4.8	2.149	2.919	14.0	21.3	1 6	3 51.83	+17 30.6	1.997	2.771	14.8	21.0
30751	1981 <i>EL</i> ₂₉		11 28.7 159°74	2°5/27.7	18		276262	2002 <i>RV</i> ₂₇₄		11 28.7 222°12	2°		

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
406909	2009 EQ ₄	11 28.7 249°06' 6°7' / 1.1 16					41522	2000 QX ₂₁₁	11 28.7 303°89' 2°3' / 29.6 18				
10 28	4 50.65	+40 26.3	2.149	2.941	13.7	21.6	10 28	4 44.64	+28 25.3	1.926	2.769	13.1	19.6
11 7	4 43.25	+41 10.4	2.058	2.926	11.2	21.4	11 7	4 38.62	+28 28.8	1.849	2.764	9.7	19.4
11 17	4 33.07	+41 38.1	1.991	2.910	8.7	21.2	11 17	4 30.32	+28 22.3	1.797	2.759	5.9	19.1
11 27	4 21.05	+41 44.8	1.950	2.894	6.9	21.1	11 27	4 20.66	+28 5.0	1.772	2.753	2.6	18.9
12 7	4 8.56	+41 28.5	1.938	2.878	7.1	21.1	12 7	4 10.80	+27 38.1	1.775	2.748	4.0	19.0
12 17	3 57.09	+40 51.6	1.953	2.861	9.2	21.1	12 17	4 1.94	+27 4.9	1.807	2.744	7.8	19.2
12 27	3 47.94	+40 0.1	1.994	2.844	11.9	21.3	12 27	3 55.11	+26 30.3	1.866	2.739	11.5	19.4
1 6	3 41.90	+39 1.8	2.058	2.826	14.6	21.4	1 6	3 50.94	+25 58.8	1.946	2.734	14.7	19.7
505353	2013 CK ₄₇	11 28.7 294°74' 16°8' / 4.2 17					448901	2011 UJ ₃₀₀	11 28.7 15°52' 0°3' / 28.6 18				
10 28	5 0.09	+53 6.3	1.171	1.944	23.8	21.6	10 28	4 45.60	+19 59.2	1.785	2.641	13.3	20.7
11 7	4 53.15	+54 50.6	1.107	1.936	21.4	21.4	11 7	4 39.30	+20 10.7	1.717	2.642	9.6	20.5
11 17	4 39.90	+55 59.4	1.058	1.928	19.0	21.2	11 17	4 30.70	+20 20.0	1.673	2.642	5.3	20.3
11 27	4 22.11	+56 16.1	1.027	1.919	17.2	21.1	11 27	4 20.73	+20 27.0	1.657	2.643	0.8	19.9
12 7	4 3.36	+55 32.4	1.015	1.911	16.9	21.0	12 7	4 10.58	+20 32.5	1.669	2.644	3.9	20.2
12 17	3 47.66	+53 52.9	1.023	1.903	18.1	21.1	12 17	4 1.45	+20 38.3	1.710	2.645	8.3	20.5
12 27	3 37.84	+51 35.3	1.050	1.896	20.5	21.2	12 27	3 54.39	+20 46.7	1.776	2.646	12.2	20.7
1 6	3 34.67	+49 1.0	1.094	1.888	23.3	21.4	1 6	3 50.02	+20 59.6	1.865	2.647	15.4	20.9
317792	2003 ST ₁₇₃	11 28.7 131°86' 4°5' / 30.9 18					477910	2011 LF ₆	11 28.7 255°49' 1°8' / 27.9 18				
10 28	4 46.42	+36 52.1	2.583	3.385	11.4	20.9	10 28	4 45.93	+18 41.1	1.700	2.558	13.8	21.8
11 7	4 39.47	+37 15.7	2.514	3.394	8.9	20.8	11 7	4 39.69	+18 5.5	1.619	2.545	10.0	21.5
11 17	4 30.61	+37 26.3	2.470	3.403	6.4	20.6	11 17	4 31.01	+17 25.6	1.563	2.532	5.7	21.2
11 27	4 20.66	+37 22.1	2.454	3.412	4.7	20.5	11 27	4 20.79	+16 44.1	1.533	2.518	1.9	21.0
12 7	4 10.64	+37 3.3	2.468	3.421	4.9	20.5	12 7	4 10.30	+16 4.8	1.532	2.503	4.8	21.1
12 17	4 1.54	+36 32.3	2.511	3.429	6.9	20.7	12 17	4 0.81	+15 31.8	1.559	2.489	9.4	21.4
12 27	3 54.22	+35 53.5	2.581	3.437	9.3	20.9	12 27	3 53.45	+15 8.9	1.612	2.474	13.6	21.6
1 6	3 49.21	+35 11.8	2.676	3.444	11.6	21.0	1 6	3 48.91	+14 58.4	1.685	2.459	17.1	21.8
318242	2004 RW ₂₇₅	11 28.7 62°78' 6°5' / 1.7 17					141812	2002 NE ₄₃	11 28.7 106°91' 2°2' / 28.1 18				
10 28	4 48.04	+40 21.8	2.003	2.804	14.3	21.3	10 28	4 49.99	+16 14.1	1.574	2.430	14.8	20.2
11 7	4 41.13	+40 50.7	1.940	2.814	11.5	21.1	11 7	4 42.35	+16 6.0	1.525	2.449	10.6	20.0
11 17	4 31.70	+41 1.1	1.900	2.824	8.7	20.9	11 17	4 32.29	+15 58.3	1.499	2.467	6.0	19.8
11 27	4 20.82	+40 49.8	1.885	2.834	6.8	20.8	11 27	4 20.95	+15 52.5	1.501	2.485	2.2	19.6
12 7	4 9.89	+40 16.9	1.898	2.843	6.8	20.9	12 7	4 9.70	+15 50.5	1.532	2.502	4.9	19.8
12 17	4 0.27	+39 26.5	1.938	2.854	8.8	21.0	12 17	3 59.84	+15 54.2	1.590	2.519	9.3	20.1
12 27	3 53.05	+38 25.2	2.004	2.864	11.5	21.2	12 27	3 52.40	+16 5.5	1.674	2.535	13.2	20.4
1 6	3 48.81	+37 20.7	2.093	2.874	14.0	21.4	1 6	3 47.90	+16 24.9	1.779	2.551	16.4	20.7
181480	2006 TF ₉₂	11 28.7 272°62' 0°9' / 29.0 17					16780	1996 XT ₁	11 28.7 67°69' 0°4' / 28.5 18				
10 28	4 44.45	+24 32.3	1.952	2.802	12.7	21.0	10 28	4 44.18	+20 42.0	1.931	2.785	12.6	18.2
11 7	4 38.41	+24 27.8	1.873	2.793	9.2	20.8	11 7	4 38.06	+20 37.2	1.868	2.792	9.0	18.0
11 17	4 30.18	+24 16.2	1.817	2.784	5.3	20.6	11 17	4 29.91	+20 29.0	1.831	2.800	5.0	17.8
11 27	4 20.62	+23 57.8	1.790	2.776	1.2	20.3	11 27	4 20.62	+20 18.0	1.821	2.807	0.8	17.5
12 7	4 10.83	+23 34.0	1.792	2.767	3.6	20.4	12 7	4 11.27	+20 6.0	1.841	2.815	3.7	17.7
12 17	4 1.96	+23 8.1	1.822	2.758	7.8	20.7	12 17	4 2.93	+19 55.5	1.889	2.823	7.7	18.0
12 27	3 55.03	+22 43.8	1.879	2.749	11.6	20.9	12 27	3 56.48	+19 48.9	1.963	2.831	11.3	18.2
1 6	3 50.65	+22 24.6	1.958	2.740	14.8	21.1	1 6	3 52.48	+19 48.4	2.060	2.838	14.3	18.4
222381	2001 DZ ₁₆	11 28.7 320°01' 4°2' / 30.1 17					271983	2005 CV ₁₂	11 28.7 295°45' 1°2' / 29.4 18				
10 28	4 45.46	+32 16.6	1.959	2.791	13.3	19.9	10 28	4 42.79	+27 47.3	2.183	3.025	11.8	19.8
11 7	4 39.37	+32 52.9	1.879	2.782	10.2	19.6	11 7	4 37.09	+27 8.4	2.091	3.006	8.7	19.6
11 17	4 30.83	+33 17.9	1.823	2.774	6.9	19.4	11 17	4 30.09	+26 18.3	2.023	2.988	5.1	19.3
11 27	4 20.72	+33 28.7	1.794	2.765	4.4	19.3	11 27	4 20.56	+25 17.9	1.985	2.969	1.5	19.1
12 7	4 10.28	+33 24.6	1.793	2.757	5.2	19.3	12 7	4 11.53	+24 10.4	1.976	2.951	3.4	19.2
12 17	4 0.79	+33 7.9	1.820	2.749	8.3	19.5	12 17	4 3.33	+23 0.4	1.997	2.932	7.2	19.4
12 27	3 53.41	+32 43.1	1.872	2.742	11.6	19.7	12 27	3 56.87	+21 53.4	2.045	2.914	10.8	19.6
1 6	3 48.85	+32 15.8	1.948	2.735	14.7	19.9	1 6	3 52.74	+20 53.9	2.117	2.896	13.9	19.7
217500	2006 SA ₃₁₄	11 28.7 188°08' 1°4' / 28.2 18					61395	2000 QZ ₄	11 28.7 146°12' 0°1' / 28.6 18				
10 28	4 47.91	+19 6.7	1.577	2.435	14.7	21.1	10 28	4 47.49	+22 18.4	1.988	2.834	12.6	20.5
11 7	4 41.12	+18 46.7	1.509	2.435	10.6	20.9	11 7	4 40.34	+22 1.6	1.924	2.844	9.1	20.3
11 17	4 31.75	+18 23.1	1.465	2.435	5.9	20.6	11 17	4 31.14	+21 39.1	1.886	2.853	5.0	20.1
11 27	4 20.85	+17 58.0	1.448	2.434	1.5	20.3	11 27	4 20.80	+21 12.0	1.876	2.862	0.7	19.8
12 7	4 9.80	+17 34.1	1.460	2.433	4.7	20.6	12 7	4 10.46	+20 42.7	1.896	2.870	3.6	20.0
12 17	3 59.97	+17 15.0	1.499	2.431	9.5	20.8	12 17	4 1.20	+20 14.4	1.946	2.878	7.7	20.3
12 27	3 52.51	+17 4.1	1.563	2.429	13.7	21.1	12 27	3 53.92	+19 50.6	2.022	2.885	11.2	20.5
1 6	3 48.06	+17 3.4	1.648	2.427	17.3	21.3	1 6	3 49.15	+19 33.9	2.122	2.891	14.2	20.7
150407	2000 EH ₁₅₁	11 28.7 159°54' 10°9' / 24.3 18					113657	2002 TV ₈₄	11 28.7 10°70' 7°5' / 25.9 18				
10 28	4 45.35	- 8 11.7	1.951	2.753	14.5	20.0	10 28	4 42.02	+ 4 58.3	1.595	2.452	14.6	19.2
11 7	4 38.68	- 9 29.8	1.905	2.759	12.6	19.9	11 7	4 36.70	+ 3 53.6	1.540	2.453	11.4	19.0
11 17	4 30.15	-10 28.3	1.883	2.765	11.2	19.8	11 17	4 29.23	+ 2 59.1	1.508	2.455	8.5	18.8
11 27	4 20.60	-11 0.9	1.885	2.770	10.9	19.8	11 27	4 20.53	+ 2 20.9	1.502	2.457	7.5	18.8
12 7	4 11.06	-11 4.3	1.912	2.774	11.9	19.8	12 7	4 11.78	+ 2 3.5	1.522	2.459	9.0	18.9
12 17	4 2.51	-10 38.5	1.963	2.778	13.5	20.0	12 17	4 4.11	+ 2 8.5	1.567	2.462	12.0	19.1
12 27	3 55.78	- 9 46.8	2.036	2.781	15.5	20.1	12 27	3 58.45	+ 2 35.0	1.635	2.465	15.1	19.3
1 6	3 51.35	- 8 34.5	2.126	2.784	17.3	20.3	1 6	3 55.36	+ 3 19.7	1.722	2.469	17.9	19.5
422444	2014 SM ₃₀₄	11 28.7 163°82' 5°8' / 1.0 18					343163	2009 QA	11 28.7 332°64' 23°3' / 14.3 17				
10 28	4 50.19	+39 55.5	2.556	3.341	12.0	21.0	10 28	4 41.63	-15 51.2	0.920	1.753	24.7	19.6
11 7	4 42.42	+40 48.1	2.482	3.345	9.7	20.8	11 7	4 37.60	-19 27.7	0.892			

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
134386	1996 SR ₅	11 28.7	51°30'	3°3'	27.8	18	283781	2003 QZ ₂₈	11 28.7	100°15'	0°5'	28.9	18
10 28	4 47.73	+16 34.8	1.096	1.974	18.1	19.3	10 28	4 48.49	+22 58.7	1.842	2.689	13.4	20.8
11 7	4 41.26	+15 53.1	1.061	1.996	13.0	19.1	11 7	4 41.14	+23 2.5	1.789	2.709	9.6	20.6
11 17	4 31.82	+15 11.5	1.046	2.017	7.4	18.9	11 17	4 31.61	+23 0.7	1.761	2.728	5.4	20.3
11 27	4 20.90	+14 34.5	1.056	2.039	3.3	18.7	11 27	4 20.93	+22 53.1	1.762	2.748	1.0	20.1
12 7	4 10.27	+14 6.9	1.091	2.062	6.4	19.0	12 7	4 10.31	+22 41.4	1.792	2.766	3.7	20.3
12 17	4 1.53	+13 52.3	1.151	2.085	11.5	19.3	12 17	4 0.92	+22 28.2	1.850	2.785	7.8	20.6
12 27	3 55.80	+13 52.8	1.233	2.108	16.0	19.6	12 27	3 53.69	+22 16.9	1.936	2.802	11.4	20.9
1 6	3 53.52	+14 7.6	1.333	2.132	19.6	20.0	1 6	3 49.13	+22 10.4	2.044	2.820	14.4	21.1
482615	2013 AB ₂₃	11 28.7	344°91'	2°5'	29.4	17	244914	2003 WK ₁₄₀	11 28.7	58°75'	0°4'	28.5	18
10 28	4 40.72	+27 13.2	1.157	2.034	17.5	21.0	10 28	4 46.01	+22 52.6	1.528	2.389	14.9	19.8
11 7	4 36.96	+27 13.7	1.087	2.019	13.0	20.7	11 7	4 39.57	+22 10.5	1.482	2.409	10.6	19.6
11 17	4 29.89	+27 0.8	1.036	2.006	7.8	20.3	11 17	4 30.77	+21 20.9	1.459	2.429	5.8	19.4
11 27	4 20.68	+26 33.7	1.009	1.993	2.9	20.0	11 27	4 20.80	+20 26.7	1.462	2.449	0.9	19.1
12 7	4 11.05	+25 55.0	1.006	1.983	5.2	20.1	12 7	4 11.02	+19 32.6	1.494	2.469	4.3	19.4
12 17	4 2.84	+25 10.2	1.027	1.974	10.8	20.4	12 17	4 2.68	+18 43.7	1.553	2.489	8.9	19.7
12 27	3 57.57	+24 27.2	1.070	1.967	15.9	20.7	12 27	3 56.73	+18 4.5	1.638	2.510	12.9	20.0
1 6	3 56.07	+23 52.3	1.130	1.962	20.3	20.9	1 6	3 53.63	+17 37.5	1.743	2.530	16.1	20.3
391660	2007 XG ₂₀	11 28.7	89°35'	0°9'	28.9	18	353770	2012 HB ₄	11 28.7	163°51'	1°5'	29.4	17
10 28	4 50.20	+22 4.2	1.851	2.695	13.5	20.3	10 28	4 43.90	+26 38.9	2.883	3.713	9.6	21.6
11 7	4 42.41	+22 42.6	1.797	2.716	9.7	20.1	11 7	4 37.44	+26 52.7	2.809	3.718	7.0	21.4
11 17	4 32.34	+23 16.9	1.770	2.736	5.4	19.9	11 17	4 29.48	+27 0.6	2.761	3.722	4.2	21.2
11 27	4 21.00	+23 45.6	1.770	2.756	1.2	19.6	11 27	4 20.63	+27 2.2	2.744	3.726	1.7	21.1
12 7	4 9.65	+24 8.3	1.801	2.776	3.7	19.8	12 7	4 11.69	+26 57.8	2.757	3.730	2.8	21.2
12 17	3 59.50	+24 25.9	1.862	2.795	7.8	20.1	12 17	4 3.41	+26 49.1	2.802	3.733	5.6	21.4
12 27	3 51.55	+24 41.2	1.949	2.814	11.5	20.4	12 27	3 56.49	+26 38.4	2.875	3.736	8.3	21.5
1 6	3 46.36	+24 56.8	2.059	2.833	14.4	20.6	1 6	3 51.42	+26 28.2	2.973	3.738	10.6	21.7
13594	1994 PC ₂	11 28.7	124°40'	1°1'	29.1	18	368346	2002 QE ₈₉	11 28.7	191°52'	5°8'	25.3	17
10 28	4 50.09	+25 6.0	1.831	2.673	13.7	18.8	10 28	4 40.18	+ 0 35.7	2.892	3.715	9.7	22.2
11 7	4 42.31	+25 1.9	1.774	2.691	9.9	18.6	11 7	4 34.65	- 0 12.2	2.827	3.713	7.9	22.1
11 17	4 32.26	+24 49.7	1.742	2.708	5.6	18.4	11 17	4 27.87	- 0 51.7	2.788	3.711	6.3	22.0
11 27	4 20.99	+24 29.3	1.738	2.724	1.4	18.2	11 27	4 20.39	- 1 19.3	2.778	3.709	5.9	21.9
12 7	4 9.79	+24 2.9	1.764	2.739	3.8	18.4	12 7	4 12.86	- 1 32.9	2.797	3.706	6.8	22.0
12 17	3 59.87	+23 33.9	1.820	2.754	7.9	18.7	12 17	4 5.90	- 1 31.3	2.843	3.703	8.5	22.1
12 27	3 52.22	+23 6.8	1.902	2.768	11.7	18.9	12 27	4 0.08	- 1 14.9	2.915	3.699	10.4	22.2
1 6	3 47.35	+22 45.4	2.006	2.781	14.7	19.2	1 6	3 55.81	- 0 45.3	3.009	3.695	12.1	22.4
490925	2011 CH ₅₃	11 28.7	244°00'	0°5'	28.9	18	52501	1996 DJ ₂	11 28.7	245°14'	2°5'	29.5	18
10 28	4 42.64	+23 34.6	2.458	3.301	10.6	22.0	10 28	4 49.08	+27 51.2	1.805	2.645	13.9	19.2
11 7	4 36.77	+23 28.9	2.375	3.293	7.7	21.8	11 7	4 42.14	+28 7.5	1.718	2.631	10.4	18.9
11 17	4 29.19	+23 18.1	2.319	3.285	4.3	21.6	11 17	4 32.51	+28 14.3	1.656	2.617	6.4	18.7
11 27	4 20.58	+23 2.5	2.291	3.277	0.8	21.3	11 27	4 21.12	+28 9.6	1.621	2.603	2.8	18.4
12 7	4 11.80	+22 43.4	2.294	3.268	3.0	21.5	12 7	4 9.32	+27 53.7	1.615	2.588	4.4	18.5
12 17	4 3.74	+22 23.2	2.326	3.260	6.5	21.7	12 17	3 58.54	+27 29.4	1.638	2.573	8.6	18.7
12 27	3 57.17	+22 4.6	2.386	3.251	9.7	21.9	12 27	3 50.01	+27 1.8	1.687	2.557	12.7	18.9
1 6	3 52.63	+21 50.0	2.470	3.242	12.4	22.1	1 6	3 44.52	+26 36.3	1.757	2.540	16.2	19.1
275024	2009 UJ ₃₀	11 28.7	295°30'	0°2'	28.8	18	429068	2009 HM ₈	11 28.7	223°27'	1°9'	28.2	17
10 28	4 46.51	+22 15.3	1.444	2.307	15.5	20.9	10 28	4 49.26	+17 3.7	1.507	2.366	15.2	21.8
11 7	4 40.61	+22 15.2	1.366	2.294	11.3	20.6	11 7	4 42.34	+16 57.7	1.435	2.361	11.0	21.5
11 17	4 31.75	+22 9.2	1.310	2.280	6.4	20.3	11 17	4 32.61	+16 51.2	1.385	2.354	6.3	21.3
11 27	4 20.98	+21 57.4	1.280	2.267	1.0	19.9	11 27	4 21.13	+16 45.6	1.363	2.348	2.0	21.0
12 7	4 9.78	+21 41.4	1.278	2.253	4.6	20.1	12 7	4 9.34	+16 42.9	1.368	2.340	5.1	21.2
12 17	3 59.74	+21 24.8	1.301	2.240	9.9	20.4	12 17	3 58.74	+16 45.4	1.401	2.333	10.1	21.4
12 27	3 52.24	+21 12.0	1.349	2.228	14.7	20.6	12 27	3 50.59	+16 55.6	1.458	2.325	14.5	21.7
1 6	3 48.09	+21 6.8	1.417	2.215	18.7	20.8	1 6	3 45.65	+17 14.7	1.536	2.316	18.3	21.9
518790	2010 BO ₅₃	11 28.7	13°10'	10°6'	23.0	17	319996	2007 DP ₂₄	11 28.7	29°58'	4°4'	30.5	17
10 28	4 39.91	- 6 36.5	1.970	2.788	13.8	21.1	10 28	4 45.62	+33 34.4	1.799	2.632	14.3	20.7
11 7	4 34.88	- 8 12.5	1.925	2.790	12.0	21.0	11 7	4 39.50	+33 50.0	1.735	2.638	11.0	20.5
11 17	4 28.12	- 9 30.9	1.903	2.792	10.8	20.9	11 17	4 30.89	+33 50.9	1.694	2.644	7.4	20.3
11 27	4 20.42	- 10 24.8	1.905	2.794	10.7	20.9	11 27	4 20.86	+33 35.1	1.679	2.651	4.7	20.1
12 7	4 12.68	- 10 50.4	1.932	2.797	11.7	21.0	12 7	4 10.74	+33 3.7	1.692	2.657	5.3	20.2
12 17	4 5.81	- 10 46.7	1.982	2.800	13.3	21.1	12 17	4 1.86	+32 20.7	1.732	2.665	8.4	20.4
12 27	4 0.56	- 10 16.1	2.053	2.803	15.2	21.2	12 27	3 55.29	+31 32.3	1.798	2.672	11.8	20.6
1 6	3 57.42	- 9 23.1	2.141	2.807	17.0	21.4	1 6	3 51.63	+30 44.7	1.886	2.680	14.8	20.8
19543	Burgoyne	11 28.7	44°30'	5°1'	29.9	18	454384	2014 MR ₆₂	11 28.7	324°95'	8°4'	26.0	18
10 28	4 50.98	+30 27.7	1.058	1.922	19.8	17.3	10 28	4 42.51	- 0 38.2	1.827	2.664	13.9	20.7
11 7	4 44.29	+31 12.9	1.018	1.940	14.9	17.1	11 7	4 36.95	- 1 18.8	1.763	2.657	11.4	20.6
11 17	4 33.83	+31 41.0	0.998	1.958	9.6	16.9	11 17	4 29.39	- 1 44.8	1.722	2.650	9.2	20.4
11 27	4 21.26	+31 47.4	1.000	1.978	5.4	16.7	11 27	4 20.64	- 1 51.2	1.707	2.643	8.4	20.4
12 7	4 8.82	+31 32.8	1.027	1.998	6.7	16.9	12 7	4 11.75	- 1 35.0	1.718	2.637	9.6	20.4
12 17	3 58.57	+31 3.0	1.077	2.018	11.3	17.2	12 17	4 3.74	- 0 56.1	1.754	2.631	11.9	20.5
12 27	3 51.98	+30 27.4	1.150	2.039	15.8	17.5	12 27	3 57.52	+ 0 3.4	1.814	2.625	14.6	20.7
1 6	3 49.58	+29 53.9	1.242	2.060	19.6	17.8	1 6	3 53.67	+ 1 19.1	1.894	2.620	17.1	20.9
411478	2011 AF ₂₇	11 28.7	282°19'	6°1'	2.2	18	186939	2004 QK ₁	11 28.7	130°49'	0°7'	28.4	18
10 28	4 47.03	+41 55.2	2.249</										

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
180207	2003 <i>SH</i> ₃₀₅		11 28.7 62°41'	5°8/30.6	18		477285	2009 <i>SZ</i> ₁₅₁		11 28.7 107°98'	0°7/28.9	16	
10 28	4 51.86	+34 1.6	1.240	2.085	18.7	20.0	10 28	4 50.17	+24 9.9	1.616	2.465	14.8	21.9
11 7	4 44.67	+34 29.5	1.192	2.101	14.3	19.8	11 7	4 42.57	+23 58.9	1.563	2.484	10.7	21.7
11 17	4 33.97	+34 37.1	1.165	2.117	9.7	19.6	11 17	4 32.49	+23 39.8	1.535	2.502	6.0	21.5
11 27	4 21.31	+34 20.6	1.161	2.133	6.1	19.4	11 27	4 21.10	+23 13.3	1.534	2.519	1.2	21.2
12 7	4 8.75	+33 41.5	1.183	2.150	6.8	19.5	12 7	4 9.83	+22 41.9	1.561	2.536	4.0	21.5
12 17	3 58.23	+32 46.6	1.231	2.167	10.7	19.8	12 17	4 0.00	+22 9.9	1.617	2.553	8.6	21.8
12 27	3 51.12	+31 46.0	1.301	2.183	14.8	20.1	12 27	3 52.65	+21 41.9	1.699	2.569	12.6	22.0
1 6	3 47.99	+30 48.7	1.392	2.200	18.4	20.4	1 6	3 48.31	+21 21.6	1.803	2.584	15.9	22.3
76649	2000 <i>HU</i> ₃₁		11 28.7 329°28'	5°9/27.8	18		450061	2015 <i>RQ</i> ₄₃		11 28.7 116°06'	0°1/28.8	18	
10 28	4 45.26	+ 3 22.7	1.899	2.739	13.4	18.1	10 28	4 46.42	+22 56.4	2.061	2.907	12.2	22.0
11 7	4 38.99	+ 3 38.1	1.821	2.726	10.4	17.8	11 7	4 39.52	+22 42.5	2.003	2.922	8.8	22.0
11 17	4 30.58	+ 4 6.9	1.767	2.713	7.5	17.6	11 17	4 30.69	+22 23.0	1.970	2.938	4.9	21.6
11 27	4 20.84	+ 4 51.4	1.740	2.701	5.9	17.5	11 27	4 20.85	+21 58.6	1.966	2.952	0.8	21.3
12 7	4 10.79	+ 5 51.9	1.742	2.689	7.1	17.6	12 7	4 11.05	+21 31.7	1.992	2.967	3.4	21.6
12 17	4 1.54	+ 7 6.9	1.772	2.678	10.1	17.7	12 17	4 2.30	+21 5.1	2.048	2.981	7.3	21.9
12 27	3 54.08	+ 8 33.7	1.828	2.668	13.3	17.9	12 27	3 55.45	+20 42.2	2.130	2.994	10.7	22.1
1 6	3 49.06	+10 8.7	1.907	2.658	16.2	18.1	1 6	3 50.99	+20 25.6	2.236	3.007	13.5	22.3
228451	2001 <i>QF</i> ₂₁₀		11 28.7 22°00'	1°5/29.1	18		416206	2002 <i>TC</i> ₃₃₄		11 28.7 185°20'	2°9/29.9	18	
10 28	4 45.77	+24 58.5	1.197	2.068	17.4	19.3	10 28	4 44.74	+30 45.4	2.563	3.387	10.8	21.7
11 7	4 40.22	+25 3.8	1.144	2.074	12.7	19.0	11 7	4 38.33	+31 10.8	2.486	3.387	8.1	21.5
11 17	4 31.51	+24 59.3	1.111	2.081	7.3	18.8	11 17	4 30.10	+31 27.5	2.435	3.387	5.3	21.3
11 27	4 20.96	+24 44.6	1.103	2.089	2.0	18.4	11 27	4 20.78	+31 34.0	2.412	3.387	3.1	21.2
12 7	4 10.34	+24 22.1	1.121	2.097	4.9	18.7	12 7	4 11.28	+31 30.4	2.419	3.386	3.8	21.2
12 17	4 1.36	+23 56.5	1.163	2.107	10.2	19.0	12 17	4 2.54	+31 18.4	2.457	3.385	6.5	21.4
12 27	3 55.35	+23 33.6	1.228	2.117	15.0	19.3	12 27	3 55.39	+31 1.2	2.522	3.384	9.3	21.6
1 6	3 52.94	+23 17.9	1.313	2.128	18.9	19.6	1 6	3 50.39	+30 42.4	2.611	3.383	11.8	21.7
283789	2003 <i>QD</i> ₁₀₇		11 28.7 54°44'	9°9/26.5	18		214662	2006 <i>SF</i> ₁₁₅		11 28.7 104°24'	1°6/28.1	18	
10 28	4 45.08	- 1 43.1	1.486	2.327	16.3	20.0	10 28	4 44.69	+18 23.2	1.938	2.792	12.5	20.6
11 7	4 38.84	- 2 33.8	1.449	2.343	13.3	19.8	11 7	4 38.37	+17 56.2	1.879	2.803	9.0	20.4
11 17	4 30.38	- 3 5.1	1.434	2.360	10.8	19.7	11 17	4 30.10	+17 26.9	1.845	2.813	5.0	20.2
11 27	4 20.77	- 3 11.3	1.442	2.376	9.9	19.7	11 27	4 20.77	+16 57.5	1.839	2.824	1.6	20.0
12 7	4 11.30	- 2 50.0	1.476	2.393	11.0	19.8	12 7	4 11.45	+16 30.7	1.863	2.834	4.1	20.2
12 17	4 3.13	- 2 2.6	1.534	2.410	13.4	20.0	12 17	4 3.16	+16 9.3	1.915	2.844	8.0	20.4
12 27	3 57.18	- 0 53.3	1.614	2.428	16.0	20.2	12 27	3 56.75	+15 55.9	1.993	2.854	11.5	20.7
1 6	3 53.95	+ 0 32.0	1.713	2.445	18.5	20.5	1 6	3 52.73	+15 51.8	2.094	2.863	14.4	20.9
355021	2006 <i>QM</i> ₁₃₇		11 28.7 18°02'	4°1/27.2	18		102893	1999 <i>XF</i> ₇		11 28.7 10°45'	1°2/29.1	18	
10 28	4 43.29	+12 21.7	1.729	2.590	13.5	20.8	10 28	4 44.86	+24 20.9	1.391	2.257	15.8	19.2
11 7	4 37.57	+11 41.8	1.667	2.591	9.9	20.6	11 7	4 39.32	+24 28.3	1.331	2.259	11.5	19.0
11 17	4 29.74	+11 4.8	1.628	2.592	6.2	20.4	11 17	4 30.96	+24 27.8	1.292	2.261	6.6	18.7
11 27	4 20.70	+10 34.6	1.617	2.593	4.1	20.3	11 27	4 20.92	+24 19.0	1.279	2.264	1.7	18.4
12 7	4 11.57	+10 14.5	1.634	2.595	6.1	20.4	12 7	4 10.71	+24 3.6	1.292	2.268	4.4	18.6
12 17	4 3.47	+10 7.0	1.678	2.596	9.7	20.6	12 17	4 1.87	+23 45.3	1.331	2.272	9.4	18.9
12 27	3 57.33	+10 13.2	1.746	2.598	13.2	20.9	12 27	3 55.62	+23 28.8	1.394	2.277	13.9	19.2
1 6	3 53.72	+10 32.6	1.835	2.600	16.3	21.1	1 6	3 52.63	+23 18.1	1.477	2.283	17.6	19.5
2421	Nininger		11 28.7 61°46'	0°9/28.4	18		98448	2000 <i>UN</i> ₆₀		11 28.7 95°93'	0°9/28.4	17	
10 28	4 42.87	+18 11.0	2.313	3.162	10.9	15.7	10 28	4 49.90	+21 51.3	1.393	2.254	16.1	19.5
11 7	4 36.93	+18 17.4	2.244	3.166	7.8	15.5	11 7	4 42.55	+21 8.6	1.345	2.272	11.5	19.2
11 17	4 29.28	+18 23.0	2.201	3.170	4.4	15.3	11 17	4 32.52	+20 18.6	1.320	2.289	6.3	19.0
11 27	4 20.63	+18 28.4	2.188	3.173	1.0	15.1	11 27	4 21.12	+19 24.4	1.321	2.307	1.2	18.7
12 7	4 11.89	+18 34.4	2.204	3.177	3.4	15.3	12 7	4 9.93	+18 31.1	1.350	2.324	4.8	19.0
12 17	4 3.91	+18 42.2	2.250	3.181	6.8	15.5	12 17	4 0.37	+17 44.1	1.406	2.341	9.8	19.3
12 27	3 57.48	+18 53.4	2.324	3.185	10.0	15.7	12 27	3 53.52	+17 8.3	1.487	2.357	14.1	19.6
1 6	3 53.11	+19 8.8	2.420	3.189	12.7	15.9	1 6	3 49.87	+16 46.2	1.588	2.373	17.6	19.9
23015	1999 <i>VQ</i> ₁₇₉		11 28.7 188°99'	5°3/26.3	18		12915	1998 <i>SL</i> ₁₆₁		11 28.7 216°74'	0°3/28.6	18	
10 28	4 41.42	+ 5 21.2	2.381	3.221	11.0	19.1	10 28	4 45.23	+21 36.4	2.179	3.025	11.6	18.3
11 7	4 35.76	+ 4 39.0	2.316	3.221	8.5	18.9	11 7	4 38.78	+21 19.4	2.098	3.018	8.4	18.1
11 17	4 28.58	+ 4 3.9	2.276	3.220	6.2	18.8	11 17	4 30.39	+20 57.5	2.043	3.011	4.7	17.8
11 27	4 20.53	+ 3 39.2	2.265	3.219	5.3	18.8	11 27	4 20.84	+20 31.8	2.017	3.003	0.7	17.5
12 7	4 12.41	+ 3 27.7	2.282	3.218	6.5	18.8	12 7	4 11.11	+20 4.4	2.021	2.995	3.5	17.7
12 17	4 5.01	+ 3 30.5	2.328	3.217	8.8	19.0	12 17	4 2.22	+19 38.1	2.055	2.986	7.3	18.0
12 27	3 59.00	+ 3 47.7	2.399	3.215	11.3	19.1	12 27	3 55.05	+19 16.1	2.116	2.977	10.8	18.2
1 6	3 54.87	+ 4 17.7	2.492	3.214	13.6	19.3	1 6	3 50.18	+19 0.9	2.200	2.967	13.8	18.4
224739	2006 <i>DQ</i> ₄₁		11 28.7 277°83'	1°9/29.5	18		10824	1993 <i>SW</i> ₃		11 28.7 68°41'	1°1/28.9	18	
10 28	4 43.90	+27 26.7	2.253	3.092	11.6	20.6	10 28	4 52.53	+22 50.3	1.222	2.085	17.7	17.2
11 7	4 37.95	+27 35.0	2.166	3.079	8.6	20.4	11 7	4 44.78	+23 16.3	1.181	2.108	12.8	16.9
11 17	4 29.98	+27 35.5	2.103	3.065	5.2	20.2	11 17	4 33.89	+23 35.5	1.163	2.132	7.2	16.7
11 27	4 20.75	+27 27.4	2.069	3.051	2.1	19.9	11 27	4 21.33	+23 46.3	1.169	2.155	1.6	16.4
12 7	4 11.27	+27 11.5	2.064	3.037	3.5	20.0	12 7	4 8.97	+23 49.5	1.203	2.179	4.8	16.7
12 17	4 2.55	+26 49.9	2.089	3.023	7.0	20.2	12 17	3 58.51	+23 48.3	1.263	2.202	10.1	17.1
12 27	3 55.52	+26 26.4	2.141	3.010	10.4	20.4	12 27	3 51.19	+23 47.4	1.346	2.226	14.6	17.4
1 6	3 50.82	+26 4.7	2.216	2.996	13.4	20.6	1 6	3 47.55	+23 50.6	1.450	2.249	18.3	17.7
176245	2001 <i>QJ</i> ₂₃₉		11 28.7 149°04'	7°0/ 1.8	18		228531	2001 <i>UV</i> ₁₃₆		11 28.7			

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
59036	1998 <i>SD</i> ₁₃₅		11 28.7 111°02'	3°1/27.1	18		254960	2005 <i>SG</i> ₂₁₀		11 28.7 34°47'	3°4/27.1	18	
10 28	4 42.35	+11 54.0	2.629	3.473	10.0	19.5	10 28	4 42.43	+14 40.9	1.922	2.781	12.4	20.2
11 7	4 36.20	+11 16.3	2.578	3.493	7.3	19.4	11 7	4 36.81	+13 39.8	1.858	2.782	9.0	20.0
11 17	4 28.73	+10 41.0	2.554	3.513	4.6	19.3	11 17	4 29.30	+12 38.3	1.819	2.784	5.5	19.8
11 27	4 20.58	+10 10.7	2.560	3.533	3.1	19.2	11 27	4 20.74	+11 40.7	1.808	2.785	3.4	19.6
12 7	4 12.51	+9 47.7	2.596	3.552	4.5	19.3	12 7	4 12.13	+10 51.2	1.825	2.787	5.5	19.8
12 17	4 5.19	+9 33.4	2.662	3.571	7.0	19.5	12 17	4 4.48	+10 13.7	1.871	2.789	8.9	20.0
12 27	3 59.24	+9 28.9	2.756	3.589	9.5	19.7	12 27	3 58.60	+9 50.4	1.942	2.790	12.3	20.2
1 6	3 55.02	+9 34.1	2.873	3.607	11.7	19.9	1 6	3 55.01	+9 41.6	2.035	2.792	15.1	20.4
408321	2013 <i>GF</i> ₅₀		11 28.7 142°34'	5°9/25.8	18		190968	2001 <i>XZ</i> ₃₅		11 28.7 17°74'	5°9/30.7	18	
10 28	4 42.07	+4 19.5	2.334	3.172	11.3	21.7	10 28	4 47.97	+34 18.8	1.322	2.168	17.7	19.1
11 7	4 36.19	+3 19.7	2.278	3.179	8.8	21.6	11 7	4 41.99	+34 48.1	1.262	2.171	13.7	18.9
11 17	4 28.80	+2 27.7	2.248	3.187	6.7	21.5	11 17	4 32.64	+34 58.4	1.223	2.175	9.5	18.6
11 27	4 20.60	+1 47.6	2.246	3.194	5.9	21.4	11 27	4 21.25	+34 45.9	1.208	2.179	6.2	18.5
12 7	4 12.40	+1 22.5	2.273	3.200	7.1	21.5	12 7	4 9.71	+34 11.1	1.218	2.184	6.8	18.5
12 17	4 4.98	+1 14.0	2.328	3.207	9.3	21.7	12 17	3 59.84	+33 19.6	1.253	2.190	10.5	18.8
12 27	3 59.01	+1 21.9	2.408	3.213	11.7	21.9	12 27	3 53.10	+32 20.5	1.312	2.196	14.6	19.0
1 6	3 54.93	+1 44.5	2.509	3.218	13.8	22.0	1 6	3 50.16	+31 22.9	1.391	2.203	18.2	19.3
113750	2002 <i>TL</i> ₁₆₆		11 28.7 68°43'	0°8/28.4	18		440153	2003 <i>UC</i> ₃₃₂		11 28.7 117°38'	0°9/28.4	15	
10 28	4 45.53	+20 46.9	1.672	2.530	14.0	19.2	10 28	4 46.55	+20 42.4	1.903	2.754	12.9	22.3
11 7	4 39.18	+20 20.8	1.619	2.545	10.0	19.0	11 7	4 39.73	+20 12.1	1.845	2.768	9.2	22.1
11 17	4 30.62	+19 50.0	1.590	2.560	5.5	18.8	11 17	4 30.89	+19 37.2	1.813	2.781	5.1	21.8
11 27	4 20.87	+19 16.7	1.589	2.575	1.1	18.5	11 27	4 20.97	+18 59.7	1.809	2.794	1.1	21.6
12 7	4 11.20	+18 44.0	1.616	2.590	4.1	18.8	12 7	4 11.11	+18 22.8	1.834	2.807	3.9	21.8
12 17	4 2.78	+18 15.5	1.671	2.605	8.5	19.1	12 17	4 2.38	+17 49.9	1.889	2.819	7.9	22.1
12 27	3 56.54	+17 54.8	1.752	2.620	12.3	19.3	12 27	3 55.64	+17 24.3	1.970	2.831	11.5	22.3
1 6	3 52.99	+17 43.6	1.854	2.636	15.5	19.6	1 6	3 51.39	+17 8.2	2.073	2.843	14.5	22.6
487568	2014 <i>WW</i> ₃₄₉		11 28.7 126°33'	1°8/29.8	17		199702	2006 <i>HB</i> ₄₁		11 28.7 22°73'	5°8/26.5	18	
10 28	4 42.85	+29 7.6	2.549	3.380	10.6	20.7	10 28	4 40.65	+5 33.5	2.047	2.896	12.2	19.6
11 7	4 36.83	+28 50.4	2.477	3.386	7.8	20.6	11 7	4 35.42	+4 53.1	1.990	2.901	9.4	19.4
11 17	4 29.19	+28 24.1	2.432	3.391	4.8	20.4	11 17	4 28.49	+4 21.1	1.958	2.905	6.8	19.3
11 27	4 20.67	+27 49.1	2.415	3.396	2.0	20.2	11 27	4 20.63	+4 1.2	1.953	2.910	5.8	19.2
12 7	4 12.13	+27 7.2	2.429	3.402	3.1	20.3	12 7	4 12.72	+3 56.0	1.976	2.915	7.0	19.3
12 17	4 4.42	+26 21.5	2.473	3.407	6.1	20.5	12 17	4 5.65	+4 6.8	2.025	2.921	9.6	19.5
12 27	3 58.26	+25 36.0	2.545	3.411	9.0	20.7	12 27	4 0.17	+4 32.8	2.099	2.927	12.3	19.7
1 6	3 54.11	+24 54.2	2.641	3.416	11.6	20.9	1 6	3 56.76	+5 12.1	2.195	2.933	14.7	19.9
359268	2009 <i>FQ</i> ₇₁		11 28.7 205°69'	2°3/27.8	18		459325	2012 <i>HM</i> ₁₇		11 28.7 157°06'	2°1/27.9	17	
10 28	4 44.09	+16 8.4	1.994	2.848	12.2	21.6	10 28	4 42.64	+14 29.3	2.428	3.276	10.5	21.4
11 7	4 38.01	+15 40.3	1.923	2.846	8.8	21.4	11 7	4 36.71	+14 24.4	2.358	3.277	7.6	21.2
11 17	4 29.98	+15 11.7	1.877	2.844	5.1	21.2	11 17	4 29.19	+14 21.0	2.314	3.279	4.5	21.0
11 27	4 20.81	+14 44.8	1.860	2.842	2.3	21.0	11 27	4 20.75	+14 20.4	2.299	3.281	2.1	20.8
12 7	4 11.52	+14 22.4	1.871	2.839	4.5	21.1	12 7	4 12.20	+14 23.8	2.315	3.282	3.9	21.0
12 17	4 3.13	+14 7.1	1.912	2.837	8.3	21.3	12 17	4 4.38	+14 32.4	2.360	3.284	7.0	21.2
12 27	3 56.51	+14 0.9	1.978	2.834	11.8	21.6	12 27	3 57.99	+14 47.1	2.433	3.285	10.0	21.4
1 6	3 52.23	+14 4.7	2.067	2.831	14.7	21.8	1 6	3 53.53	+15 8.1	2.529	3.286	12.5	21.5
199536	2006 <i>DT</i> ₂₀₁		11 28.7 141°82'	9°2/23.6	18		448589	2010 <i>TK</i> ₇₇		11 28.7 342°04'	7°2/30.4	17	
10 28	4 40.37	-6 58.7	2.365	3.170	12.2	19.8	10 28	4 49.16	+37 4.7	1.711	2.532	15.5	20.7
11 7	4 35.02	-8 15.2	2.315	3.172	10.6	19.7	11 7	4 42.71	+38 21.3	1.638	2.526	12.4	20.5
11 17	4 28.19	-9 16.5	2.290	3.174	9.4	19.6	11 17	4 33.10	+39 23.1	1.587	2.520	9.4	20.3
11 27	4 20.55	-9 57.2	2.290	3.175	9.2	19.6	11 27	4 21.38	+40 3.7	1.561	2.515	7.4	20.2
12 7	4 12.87	-10 14.3	2.315	3.177	10.1	19.7	12 7	4 9.11	+40 20.1	1.562	2.510	7.8	20.2
12 17	4 5.91	-10 7.2	2.365	3.179	11.6	19.8	12 17	3 58.00	+40 13.6	1.590	2.506	10.3	20.4
12 27	4 0.35	-9 37.5	2.438	3.180	13.3	19.9	12 27	3 49.56	+39 50.4	1.642	2.502	13.5	20.5
1 6	3 56.63	-8 48.8	2.529	3.182	14.9	20.1	1 6	3 44.67	+39 18.6	1.714	2.499	16.4	20.7
263098	2007 <i>TL</i> ₂₁₅		11 28.7 88°25'	1°6/28.1	15		97169	1999 <i>VZ</i> ₁₉₂		11 28.7 32°54'	2°9/29.8	18	
10 28	4 47.86	+21 23.3	1.298	2.165	16.6	20.5	10 28	4 46.35	+29 26.9	1.483	2.335	15.8	18.8
11 7	4 41.41	+20 20.7	1.240	2.171	11.9	20.3	11 7	4 40.31	+29 25.1	1.423	2.342	11.7	18.5
11 17	4 32.07	+19 9.4	1.205	2.176	6.6	20.0	11 17	4 31.49	+29 9.5	1.386	2.348	7.2	18.3
11 27	4 21.13	+17 54.0	1.196	2.181	1.8	19.7	11 27	4 21.10	+28 39.6	1.374	2.355	3.3	18.1
12 7	4 10.22	+16 41.2	1.213	2.186	5.4	20.0	12 7	4 10.66	+27 57.7	1.389	2.363	4.7	18.2
12 17	4 0.90	+15 38.2	1.257	2.191	10.7	20.3	12 17	4 1.66	+27 9.1	1.431	2.371	9.1	18.5
12 27	3 54.34	+14 58.8	1.324	2.196	15.3	20.6	12 27	3 55.28	+26 20.6	1.497	2.379	13.2	18.7
1 6	3 51.12	+14 21.4	1.411	2.201	19.1	20.8	1 6	3 52.11	+25 38.1	1.585	2.388	16.8	19.0
124116	2001 <i>JS</i> ₆		11 28.7 160°57'	1°2/28.1	18	R	216578	2002 <i>EB</i> ₁₄₄		11 28.7 16°63'	0°2/28.7	18	
10 28	4 41.70	+18 44.5	2.752	3.596	9.5	20.0	10 28	4 48.04	+21 25.2	1.239	2.109	17.1	20.3
11 7	4 35.84	+18 14.6	2.681	3.601	6.8	19.8	11 7	4 41.88	+21 20.9	1.179	2.110	12.4	20.0
11 17	4 28.61	+17 42.6	2.638	3.606	3.8	19.6	11 17	4 32.54	+21 10.9	1.140	2.111	6.9	19.7
11 27	4 20.62	+17 9.9	2.625	3.610	1.2	19.5	11 27	4 21.28	+20 56.0	1.126	2.112	1.0	19.3
12 7	4 12.59	+16 38.8	2.643	3.614	3.2	19.6	12 7	4 9.83	+20 38.5	1.138	2.114	5.0	19.6
12 17	4 5.25	+16 11.5	2.692	3.617	6.1	19.8	12 17	3 59.91	+20 22.5	1.175	2.116	10.6	19.9
12 27	3 59.22	+15 50.1	2.768	3.620	8.9	20.0	12 27	3 52.91	+20 12.5	1.236	2.118	15.5	20.2
1 6	3 54.91	+15 36.0	2.869	3.623	11.2	20.2	1 6	3 49.51	+20 11.6	1.316	2.120	19.5	20.5
310372	2011 <i>UM</i> ₃₃₈		11 28.7 78°54'	4°3/27.9	18		99043	2001 <i>EX</i> ₇		11 28.7 178°92'			

EPHEMERIDES

11 28.7

11 28.7

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	
69854	1998 SS ₅₄	11 28.7 289°18 7°0/ 1.5 17						353368	2011 GT ₆₂	11 28.7 206°35 14°7/20.8 17				
10 28	4 48.94	+41 51.0	2.227	3.014	13.4	18.4	10 28	4 47.89	-1 42.5	1.137	1.991	19.5	20.8	
11 7	4 42.00	+42 43.3	2.150	3.010	11.1	18.2	11 7	4 41.61	-5 3.3	1.095	1.989	16.6	20.6	
11 17	4 32.46	+43 19.0	2.096	3.007	8.8	18.1	11 17	4 32.32	-8 5.7	1.075	1.988	14.9	20.5	
11 27	4 21.28	+43 33.7	2.069	3.004	7.2	18.0	11 27	4 21.29	-10 31.8	1.078	1.986	15.1	20.5	
12 7	4 9.76	+43 25.9	2.068	3.001	7.3	18.0	12 7	4 10.22	-12 9.3	1.103	1.984	17.2	20.6	
12 17	3 59.28	+42 57.6	2.095	2.997	9.0	18.1	12 17	4 0.69	-12 54.3	1.149	1.982	20.0	20.8	
12 27	3 51.04	+42 14.6	2.148	2.994	11.3	18.2	12 27	3 54.00	-12 50.7	1.211	1.979	22.9	21.0	
1 6	3 45.76	+41 23.8	2.224	2.991	13.7	18.4	1 6	3 50.75	-12 8.0	1.285	1.976	25.4	21.2	
408109	2013 BK ₆₀	11 28.7 207°65 5°7/ 1.4 18						14183	1998 WA ₁₈	11 28.7 355°07 1°8/29.6 18				
10 28	4 49.80	+39 40.2	2.336	3.127	12.8	21.5	10 28	4 43.18	+27 49.2	2.045	2.889	12.4	17.8	
11 7	4 42.37	+40 6.1	2.253	3.122	10.3	21.3	11 7	4 37.51	+27 41.2	1.972	2.888	9.1	17.6	
11 17	4 32.55	+40 16.1	2.193	3.117	7.8	21.1	11 17	4 29.81	+27 23.7	1.924	2.887	5.5	17.4	
11 27	4 21.29	+40 6.9	2.161	3.110	6.0	21.0	11 27	4 20.92	+26 56.7	1.903	2.886	2.1	17.1	
12 7	4 9.80	+39 38.3	2.158	3.104	6.1	21.0	12 7	4 11.91	+26 22.2	1.911	2.885	3.6	17.2	
12 17	3 59.33	+38 53.1	2.184	3.097	8.1	21.1	12 17	4 3.86	+25 43.6	1.948	2.885	7.3	17.5	
12 27	3 50.96	+37 56.8	2.236	3.089	10.7	21.3	12 27	3 57.66	+25 5.3	2.011	2.885	10.8	17.7	
1 6	3 45.35	+36 56.5	2.312	3.081	13.2	21.4	1 6	3 53.89	+24 31.3	2.098	2.885	13.8	17.9	
491262	2011 UW ₂₇₉	11 28.7 64°39 0°5/28.9 15						324884	2007 UG ₂₅	11 28.7 219°52 0°0/28.6 18				
10 28	4 46.79	+26 10.8	1.657	2.509	14.4	21.3	10 28	4 49.02	+22 9.9	1.376	2.238	16.2	21.5	
11 7	4 40.03	+25 16.5	1.609	2.531	10.4	21.1	11 7	4 42.43	+22 2.2	1.309	2.237	11.7	21.2	
11 17	4 31.06	+24 11.3	1.585	2.552	5.8	20.9	11 17	4 32.84	+21 47.9	1.265	2.235	6.6	21.0	
11 27	4 21.03	+22 58.3	1.588	2.574	1.1	20.6	11 27	4 21.39	+21 27.6	1.246	2.233	1.0	20.6	
12 7	4 11.25	+21 42.8	1.621	2.596	3.8	20.9	12 7	4 9.72	+21 3.8	1.255	2.230	4.7	20.8	
12 17	4 2.88	+20 30.8	1.682	2.618	8.3	21.2	12 17	3 59.44	+20 40.5	1.290	2.228	10.0	21.1	
12 27	3 56.83	+19 28.2	1.769	2.640	12.1	21.5	12 27	3 51.88	+20 22.7	1.349	2.226	14.8	21.4	
1 6	3 53.51	+18 38.5	1.878	2.662	15.2	21.7	1 6	3 47.77	+20 13.8	1.428	2.223	18.7	21.7	
178789	2001 DE	11 28.7 233°58 3°5/27.5 18						456056	2006 AW ₃₅	11 28.7 321°83 4°4/27.2 17				
10 28	4 47.08	+14 31.9	1.662	2.519	14.1	20.3	10 28	4 42.57	+9 2.0	2.066	2.917	12.0	21.1	
11 7	4 40.58	+13 52.1	1.586	2.510	10.3	20.1	11 7	4 36.89	+8 40.5	1.998	2.914	9.0	20.9	
11 17	4 31.63	+13 12.2	1.534	2.500	6.2	19.8	11 17	4 29.41	+8 24.8	1.955	2.911	6.0	20.7	
11 27	4 21.17	+12 35.9	1.510	2.489	3.5	19.6	11 27	4 20.86	+8 17.7	1.939	2.909	4.4	20.6	
12 7	4 10.46	+12 7.1	1.514	2.479	5.9	19.7	12 7	4 12.19	+8 21.3	1.952	2.906	5.9	20.7	
12 17	4 0.78	+11 49.3	1.545	2.467	10.1	20.0	12 17	4 4.31	+8 36.7	1.993	2.904	8.9	20.9	
12 27	3 53.24	+11 44.9	1.601	2.455	14.1	20.2	12 27	3 58.06	+9 3.8	2.060	2.902	11.9	21.1	
1 6	3 48.54	+11 54.3	1.678	2.443	17.5	20.4	1 6	3 53.97	+9 41.5	2.148	2.899	14.6	21.3	
4593	Reipurth	11 28.7 20°26 5°1/30.7 18						185635	2008 DL ₂₇	11 28.7 313°91 5°6/26.3 17				
10 28	4 46.07	+35 14.4	1.893	2.717	14.0	16.4	10 28	4 41.71	+10 31.7	1.599	2.465	14.1	20.2	
11 7	4 39.90	+35 45.7	1.826	2.721	10.9	16.2	11 7	4 36.89	+9 26.3	1.516	2.441	10.7	19.9	
11 17	4 31.25	+36 2.4	1.782	2.725	7.7	16.0	11 17	4 29.68	+8 23.1	1.457	2.417	7.2	19.7	
11 27	4 21.11	+36 1.4	1.764	2.729	5.4	15.9	11 27	4 20.93	+7 28.0	1.424	2.394	5.7	19.5	
12 7	4 10.80	+35 42.8	1.774	2.734	5.8	15.9	12 7	4 11.81	+6 46.8	1.417	2.371	7.8	19.6	
12 17	4 1.66	+35 9.9	1.812	2.739	8.5	16.1	12 17	4 3.56	+6 23.9	1.437	2.349	11.6	19.7	
12 27	3 54.78	+34 28.3	1.875	2.745	11.6	16.3	12 27	3 57.31	+6 21.3	1.479	2.327	15.4	19.9	
1 6	3 50.80	+33 44.6	1.961	2.751	14.5	16.5	1 6	3 53.79	+6 38.3	1.540	2.306	18.9	20.1	
78157	2002 NQ ₂₇	11 28.7 109°20 0°5/28.5 18						491531	2012 KD ₄₂	11 28.7 294°35 1°7/28.2 17				
10 28	4 42.66	+20 57.1	2.538	3.383	10.2	20.3	10 28	4 43.31	+15 51.1	2.247	3.097	11.2	21.2	
11 7	4 36.61	+20 34.1	2.478	3.397	7.3	20.2	11 7	4 37.40	+15 56.0	2.171	3.093	8.1	21.0	
11 17	4 29.07	+20 7.4	2.444	3.412	4.0	20.0	11 17	4 29.70	+16 2.0	2.122	3.089	4.6	20.8	
11 27	4 20.76	+19 38.7	2.440	3.426	0.7	19.7	11 27	4 20.91	+16 9.9	2.101	3.084	1.7	20.6	
12 7	4 12.48	+19 9.9	2.467	3.440	3.0	19.9	12 7	4 11.95	+16 20.5	2.109	3.080	3.8	20.7	
12 17	4 4.99	+18 43.4	2.524	3.454	6.2	20.2	12 17	4 3.73	+16 35.0	2.148	3.076	7.3	20.9	
12 27	3 58.96	+18 21.6	2.609	3.467	9.1	20.4	12 27	3 57.06	+16 54.3	2.213	3.072	10.5	21.1	
1 6	3 54.81	+18 6.2	2.717	3.480	11.6	20.6	1 6	3 52.50	+17 18.9	2.302	3.068	13.3	21.3	
97630	2000 EC ₁₃₇	11 28.7 309°98 0°7/28.5 18						66052	1998 QM ₈₇	11 28.7 46°25 6°2/25.6 18				
10 28	4 42.34	+19 59.6	2.001	2.857	12.1	19.5	10 28	4 41.52	+7 26.0	1.847	2.702	13.0	19.0	
11 7	4 37.02	+19 51.2	1.914	2.838	8.8	19.3	11 7	4 36.09	+5 59.6	1.803	2.717	9.9	18.8	
11 17	4 29.61	+19 39.6	1.851	2.820	4.9	19.0	11 17	4 28.88	+4 40.1	1.784	2.733	7.2	18.7	
11 27	4 20.89	+19 26.0	1.815	2.801	1.0	18.7	11 27	4 20.77	+3 33.8	1.792	2.748	6.3	18.6	
12 7	4 11.85	+19 12.1	1.809	2.783	3.8	18.9	12 7	4 12.75	+2 45.1	1.828	2.764	7.8	18.8	
12 17	4 3.57	+19 0.2	1.831	2.765	7.9	19.1	12 17	4 5.75	+2 16.7	1.890	2.781	10.5	19.0	
12 27	3 57.02	+18 53.2	1.879	2.748	11.7	19.3	12 27	4 0.51	+2 8.8	1.977	2.798	13.2	19.2	
1 6	3 52.86	+18 52.9	1.949	2.730	14.9	19.5	1 6	3 57.48	+2 19.3	2.083	2.814	15.6	19.4	
274527	2008 SK ₂₀₅	11 28.7 35°05 2°8/27.6 18						332008	2005 MR ₁₅	11 28.7 80°31 0°8/29.2 18				
10 28	4 41.25	+14 11.7	2.080	2.937	11.7	20.0	10 28	4 52.56	+29 24.9	1.471	2.315	16.4	19.3	
11 7	4 35.88	+13 42.3	2.020	2.944	8.5	19.9	11 7	4 44.21	+27 50.8	1.423	2.340	11.8	19.1	
11 17	4 28.79	+13 14.3	1.986	2.951	5.1	19.7	11 17	4 33.36	+25 59.2	1.400	2.365	6.7	18.9	
11 27	4 20.74	+12 50.3	1.979	2.959	2.8	19.5	11 27	4 21.43	+23 55.5	1.404	2.390	1.5	18.6	
12 7	4 12.67	+12 32.8	2.001	2.966	4.7	19.7	12 7	4 10.01	+21 48.6	1.439	2.414	4.2	18.9	
12 17	4 5.46	+12 23.8	2.052	2.974	8.0	19.9	12 17	4 0.47	+19 49.0	1.503	2.439	9.1	19.2	
12 27	3 59.87	+12 24.7	2.129	2.983	11.1	20.1	12 27	3 53.71	+18 5.2	1.593	2.462	13.4	19.5	
1 6	3 56.39	+12 35.4	2.228	2.991	13.8	20.3	1 6	3 50.10	+16 41.9	1.706	2.486	16.7	19.8	
52289	1990 QH ₉	11 28.7 53°89 1°9/28.3 18						21273	1996 SW ₂	11 28.7 304°05 1°4/29.1 18				
10 28	4 48.25	+17 53.7	1.247	2.118	16.9	18.3	10 28	4 47.13	+24 44.1	1.281	2.148	16.9	18.6	
11 7	4 41.58	+17 39.9	1.208	2.139	12.1	18.1	11 7	4 41.55	+24 49.7	1.203	2.131	12.4	18.3	
11 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
340467	2006 <i>HO</i> ₂₉		11 28.8 215°96	8°9/24.3	17		15224	Penttilä		11 28.8 148°35	0°4/28.7	18	R
10 28	4 49.42	+11 50.1	1.091	1.966	18.5	20.1	10 28	4 49.98	+19 42.3	2.070	2.911	12.4	18.5
11 7	4 42.85	+8 52.7	1.036	1.964	14.0	19.8	11 7	4 42.21	+19 54.9	2.005	2.922	8.9	18.3
11 17	4 33.06	+5 52.1	1.004	1.961	10.0	19.6	11 17	4 32.38	+20 5.3	1.966	2.933	4.9	18.1
11 27	4 21.44	+3 4.9	0.997	1.959	9.0	19.6	11 27	4 21.36	+20 13.3	1.957	2.943	0.8	17.8
12 7	4 9.81	+0 47.0	1.017	1.956	12.0	19.7	12 7	4 10.27	+20 19.4	1.978	2.952	3.5	18.1
12 17	3 59.90	-0 51.0	1.059	1.953	16.4	20.0	12 17	4 0.18	+20 25.2	2.030	2.960	7.5	18.3
12 27	3 53.03	-1 46.3	1.122	1.950	20.7	20.2	12 27	3 52.02	+20 32.8	2.109	2.968	11.0	18.6
1 6	3 49.81	-2 3.3	1.200	1.947	24.2	20.5	1 6	3 46.36	+20 44.1	2.212	2.975	13.9	18.8
109558	2001 <i>QT</i> ₂₆₁		11 28.8 275°35	1°6/29.5	18		189497	2000 <i>AQ</i> ₄₄		11 28.8 95°08	1°8/29.6	17	
10 28	4 45.00	+27 27.4	1.928	2.772	13.0	19.5	10 28	4 43.99	+27 53.3	2.248	3.086	11.6	20.3
11 7	4 38.93	+27 12.6	1.852	2.768	9.6	19.3	11 7	4 37.93	+27 50.9	2.178	3.090	8.6	20.1
11 17	4 30.66	+26 47.7	1.800	2.764	5.7	19.0	11 17	4 30.00	+27 40.0	2.133	3.095	5.1	19.9
11 27	4 21.08	+26 12.7	1.776	2.760	2.0	18.8	11 27	4 21.00	+27 20.2	2.117	3.099	2.1	19.7
12 7	4 11.37	+25 30.0	1.782	2.756	3.7	18.9	12 7	4 11.93	+26 53.2	2.130	3.103	3.4	19.8
12 17	4 2.67	+24 43.7	1.815	2.752	7.7	19.1	12 17	4 3.76	+26 21.7	2.172	3.108	6.8	20.1
12 27	3 55.97	+23 58.8	1.876	2.748	11.5	19.4	12 27	3 57.31	+25 49.7	2.242	3.112	10.0	20.3
1 6	3 51.88	+23 19.7	1.958	2.744	14.6	19.6	1 6	3 53.13	+25 20.8	2.336	3.116	12.7	20.5
222032	Lupton		11 28.8 31°88	0°1/28.7	18		508777	1999 <i>TZ</i> ₁₅₆		11 28.8 56°36	2°3/28.0	18	
10 28	4 42.98	+22 0.7	1.963	2.818	12.4	20.9	10 28	4 48.99	+19 0.1	1.146	2.020	17.9	20.9
11 7	4 37.32	+21 46.3	1.898	2.822	8.9	20.6	11 7	4 42.16	+18 12.5	1.112	2.045	12.7	20.6
11 17	4 29.68	+21 26.9	1.858	2.827	4.9	20.4	11 17	4 32.45	+17 21.6	1.099	2.070	7.1	20.4
11 27	4 20.93	+21 3.8	1.846	2.832	0.7	20.1	11 27	4 21.35	+16 31.8	1.112	2.096	2.4	20.2
12 7	4 12.11	+20 39.2	1.863	2.838	3.5	20.4	12 7	4 10.62	+15 48.7	1.150	2.122	5.8	20.5
12 17	4 4.26	+20 15.9	1.908	2.843	7.5	20.6	12 17	4 1.79	+15 17.1	1.213	2.149	10.9	20.9
12 27	3 58.24	+19 57.1	1.979	2.849	11.1	20.8	12 27	3 55.92	+15 0.1	1.299	2.175	15.3	21.2
1 6	3 54.59	+19 45.2	2.073	2.855	14.1	21.1	1 6	3 53.44	+14 58.2	1.405	2.201	18.9	21.5
338477	2003 <i>GQ</i> ₄₉		11 28.8 237°17	1°8/28.2	18		351420	2005 <i>GE</i> ₃₈		11 28.8 298°78	1°9/29.4	18	
10 28	4 46.51	+17 43.3	1.682	2.540	13.9	20.9	10 28	4 45.57	+26 52.6	1.661	2.513	14.4	20.7
11 7	4 40.18	+17 27.2	1.610	2.535	10.1	20.7	11 7	4 39.83	+26 50.0	1.576	2.496	10.7	20.4
11 17	4 31.43	+17 9.6	1.562	2.530	5.7	20.4	11 17	4 31.41	+26 37.1	1.514	2.479	6.4	20.2
11 27	4 21.21	+16 52.1	1.540	2.525	1.9	20.2	11 27	4 21.26	+26 13.3	1.479	2.463	2.2	19.9
12 7	4 10.77	+16 37.2	1.548	2.520	4.7	20.4	12 7	4 10.72	+25 40.1	1.471	2.446	4.2	20.0
12 17	4 1.38	+16 27.6	1.583	2.514	9.1	20.6	12 17	4 1.20	+25 1.6	1.490	2.429	8.9	20.2
12 27	3 54.14	+16 26.1	1.643	2.508	13.2	20.8	12 27	3 53.96	+24 23.3	1.535	2.413	13.2	20.4
1 6	3 49.70	+16 34.0	1.724	2.502	16.6	21.1	1 6	3 49.78	+23 50.5	1.601	2.397	16.9	20.6
452570	2005 <i>CV</i> ₇		11 28.8 279°51	4°6/1.3	18		335013	2004 <i>HW</i> ₇₆		11 28.8 88°06	0°3/28.9	16	
10 28	4 45.51	+37 31.2	2.415	3.219	12.0	21.0	10 28	4 50.03	+22 45.0	1.543	2.397	15.2	21.7
11 7	4 39.21	+37 28.8	2.319	3.201	9.5	20.8	11 7	4 42.62	+22 42.0	1.495	2.418	10.9	21.5
11 17	4 30.81	+37 11.3	2.247	3.182	6.9	20.6	11 17	4 32.68	+22 32.5	1.470	2.438	6.1	21.2
11 27	4 21.11	+36 36.8	2.202	3.163	4.8	20.4	11 27	4 21.41	+22 17.1	1.473	2.459	1.0	20.9
12 7	4 11.20	+35 46.0	2.187	3.144	5.0	20.4	12 7	4 10.26	+21 57.9	1.503	2.479	4.1	21.2
12 17	4 2.17	+34 42.3	2.201	3.125	7.3	20.5	12 17	4 0.60	+21 38.4	1.562	2.499	8.8	21.6
12 27	3 54.96	+33 31.4	2.242	3.106	10.2	20.7	12 27	3 53.46	+21 22.8	1.646	2.518	12.8	21.8
1 6	3 50.20	+32 19.5	2.308	3.087	12.9	20.8	1 6	3 49.36	+21 14.0	1.752	2.537	16.1	22.1
265224	2004 <i>CE</i> ₁₀₀		11 28.8 258°34	0°2/28.7	18		174117	2002 <i>JR</i> ₁₀₅		11 28.8 168°55	1°0/28.4	18	
10 28	4 48.23	+21 16.0	1.624	2.479	14.5	21.1	10 28	4 48.88	+20 14.2	1.614	2.470	14.6	20.9
11 7	4 41.71	+21 13.7	1.541	2.465	10.5	20.9	11 7	4 41.89	+19 51.3	1.548	2.473	10.5	20.7
11 17	4 32.44	+21 6.7	1.481	2.450	5.9	20.6	11 17	4 32.37	+19 23.6	1.506	2.475	5.8	20.4
11 27	4 21.39	+20 55.3	1.448	2.435	0.9	20.2	11 27	4 21.39	+18 53.0	1.492	2.478	1.3	20.1
12 7	4 9.90	+20 41.1	1.444	2.419	4.3	20.4	12 7	4 10.29	+18 22.5	1.506	2.479	4.5	20.4
12 17	3 59.44	+20 27.1	1.467	2.403	9.3	20.7	12 17	4 0.44	+17 55.9	1.548	2.480	9.2	20.6
12 27	3 51.28	+20 17.1	1.516	2.386	13.8	20.9	12 27	3 52.94	+17 37.1	1.615	2.481	13.3	20.9
1 6	3 46.22	+20 14.3	1.585	2.370	17.6	21.1	1 6	3 48.40	+17 28.4	1.703	2.481	16.8	21.1
515567	2014 <i>HU</i> ₄₀		11 28.8 79°45	2°9/27.7	18		152254	2005 <i>SD</i> ₁₁₆		11 28.8 357°22	0°8/29.1	18	
10 28	4 44.95	+14 55.6	1.753	2.612	13.4	21.5	10 28	4 44.27	+24 16.0	1.855	2.708	13.1	20.7
11 7	4 38.76	+14 26.2	1.697	2.622	9.7	21.3	11 7	4 38.45	+24 11.1	1.785	2.707	9.5	20.4
11 17	4 30.48	+13 57.7	1.666	2.633	5.7	21.1	11 17	4 30.42	+23 59.2	1.739	2.706	5.4	20.2
11 27	4 21.05	+13 33.2	1.662	2.643	2.9	20.9	11 27	4 21.10	+23 40.8	1.720	2.706	1.2	19.9
12 7	4 11.63	+13 15.3	1.687	2.654	5.1	21.1	12 7	4 11.63	+23 17.6	1.730	2.706	3.6	20.1
12 17	4 3.31	+13 6.5	1.739	2.664	8.9	21.3	12 17	4 3.16	+22 52.9	1.768	2.706	7.8	20.4
12 27	3 56.99	+13 8.4	1.817	2.675	12.5	21.6	12 27	3 56.70	+22 30.3	1.832	2.706	11.6	20.6
1 6	3 53.21	+13 21.0	1.916	2.685	15.5	21.8	1 6	3 52.82	+22 13.4	1.919	2.706	14.8	20.8
446148	2013 <i>ED</i> ₉₇		11 28.8 31°65	3°6/27.6	18		162301	1999 <i>VX</i> ₁₈₃		11 28.8 353°84	2°5/27.9	18	
10 28	4 43.49	+13 48.4	1.574	2.440	14.3	20.6	10 28	4 39.75	+19 16.5	1.141	2.028	16.9	19.0
11 7	4 37.90	+13 17.4	1.520	2.447	10.4	20.4	11 7	4 36.08	+18 25.0	1.080	2.020	12.2	18.7
11 17	4 30.08	+12 48.8	1.489	2.456	6.3	20.2	11 17	4 29.42	+17 27.3	1.040	2.013	6.9	18.4
11 27	4 21.00	+12 26.1	1.485	2.465	3.6	20.1	11 27	4 20.96	+16 28.5	1.023	2.007	2.5	18.1
12 7	4 11.90	+12 12.2	1.508	2.474	5.8	20.2	12 7	4 12.29	+15 35.2	1.030	2.004	6.0	18.3
12 17	4 3.96	+12 9.6	1.558	2.484	9.7	20.5	12 17	4 5.01	+14 53.6	1.062	2.002	11.4	18.6
12 27	3 58.16	+12 19.3	1.632	2.494	13.5	20.7	12 27	4 0.42	+14 28.5	1.114	2.002	16.3	18.9
1 6	3 55.03	+12 40.8	1.727	2.505	16.6	21.0	1 6	3 59.20	+14 21.1	1.185	2.003	20.4	19.2
414386	2008 <i>WT</i> ₁₄		11 28.8 73°45	3°1/26.8	18		262390	2006 <i>UH</i> ₉		11 28.8 11°64			

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
171340	2006 <i>KG</i> ₄		11 28.8 117°99	0°4/28.6	18		266454	2007 <i>JQ</i> ₃₃		11 28.8 87°63	3°1/27.7	18	
10 28	4 46.86	+21 57.9	2.048	2.894	12.3	21.2	10 28	4 42.96	+11 53.0	2.226	3.076	11.3	20.2
11 7	4 39.88	+21 27.8	1.991	2.911	8.8	21.0	11 7	4 37.10	+11 41.8	2.160	3.079	8.3	20.0
11 17	4 31.02	+20 52.4	1.960	2.928	4.9	20.8	11 17	4 29.54	+11 34.1	2.120	3.082	5.1	19.8
11 27	4 21.17	+20 13.4	1.958	2.944	0.8	20.5	11 27	4 21.02	+11 31.9	2.109	3.085	3.1	19.7
12 7	4 11.41	+19 33.6	1.985	2.959	3.5	20.8	12 7	4 12.41	+11 36.6	2.126	3.089	4.7	19.8
12 17	4 2.73	+18 56.7	2.043	2.974	7.4	21.1	12 17	4 4.57	+11 49.3	2.173	3.092	7.8	20.0
12 27	3 55.94	+18 25.9	2.128	2.989	10.8	21.3	12 27	3 58.29	+12 10.4	2.247	3.095	10.8	20.2
1 6	3 51.52	+18 3.7	2.235	3.003	13.6	21.5	1 6	3 54.05	+12 39.6	2.343	3.098	13.4	20.4
6006	Anaximandros		11 28.8 69°16	0°8/29.1	18		438716	2008 <i>SN</i> ₉₄		11 28.8 68°69	1°8/29.4	16	
10 28	4 45.04	+24 21.6	1.902	2.751	12.9	17.2	10 28	4 48.75	+26 37.8	1.478	2.332	15.7	21.5
11 7	4 38.88	+24 15.6	1.838	2.759	9.4	16.9	11 7	4 41.94	+26 36.6	1.427	2.348	11.5	21.3
11 17	4 30.60	+24 2.6	1.800	2.767	5.3	16.7	11 17	4 32.43	+26 24.6	1.398	2.364	6.7	21.1
11 27	4 21.13	+23 43.2	1.789	2.774	1.2	16.5	11 27	4 21.46	+26 1.7	1.395	2.380	2.2	20.9
12 7	4 11.61	+23 19.3	1.807	2.782	3.5	16.6	12 7	4 10.55	+25 30.3	1.420	2.396	4.3	21.0
12 17	4 3.14	+22 53.9	1.853	2.790	7.6	16.9	12 17	4 1.16	+24 55.1	1.473	2.412	8.9	21.4
12 27	3 56.66	+22 30.8	1.926	2.798	11.3	17.2	12 27	3 54.41	+24 21.8	1.550	2.428	13.1	21.6
1 6	3 52.71	+22 13.3	2.022	2.806	14.3	17.4	1 6	3 50.83	+23 54.9	1.648	2.444	16.5	21.9
247319	2001 <i>TG</i> ₁₉₉		11 28.8 359°21	7°8/26.9	18		376216	2011 <i>EZ</i> ₂		11 28.8 179°24	1°3/29.5	18	
10 28	4 39.49	+ 6 15.4	1.198	2.077	16.9	19.3	10 28	4 42.88	+27 9.5	2.912	3.743	9.5	22.3
11 7	4 35.63	+ 5 32.6	1.145	2.072	13.1	19.0	11 7	4 36.83	+27 3.3	2.835	3.744	6.9	22.1
11 17	4 29.09	+ 5 2.4	1.112	2.068	9.4	18.8	11 17	4 29.32	+26 50.4	2.783	3.744	4.1	22.0
11 27	4 20.93	+ 4 51.2	1.101	2.067	7.8	18.7	11 27	4 20.99	+26 30.9	2.762	3.745	1.5	21.8
12 7	4 12.61	+ 5 2.9	1.115	2.067	9.5	18.8	12 7	4 12.58	+26 6.1	2.771	3.745	2.7	21.9
12 17	4 5.54	+ 5 38.3	1.151	2.069	13.2	19.1	12 17	4 4.83	+25 38.0	2.812	3.744	5.5	22.1
12 27	4 0.91	+ 6 34.9	1.208	2.073	17.0	19.3	12 27	3 58.41	+25 9.6	2.881	3.744	8.2	22.2
1 6	3 59.37	+ 7 48.0	1.284	2.078	20.4	19.5	1 6	3 53.77	+24 43.4	2.975	3.742	10.6	22.4
322678	1999 <i>TB</i> ₃₁₆		11 28.8 128°45	1°9/29.4	18		234571	2001 <i>XO</i> ₁₀₇		11 28.8 342°12	0°4/28.7	18	
10 28	4 51.36	+26 50.5	1.658	2.501	14.8	21.6	10 28	4 43.40	+21 27.4	1.202	2.080	16.9	20.4
11 7	4 43.64	+26 52.1	1.599	2.515	10.9	21.4	11 7	4 38.80	+21 16.9	1.134	2.069	12.3	20.1
11 17	4 33.33	+26 43.3	1.564	2.528	6.4	21.2	11 17	4 31.05	+21 0.2	1.088	2.060	6.9	19.8
11 27	4 21.57	+26 23.6	1.556	2.540	2.2	20.9	11 27	4 21.29	+20 38.6	1.065	2.051	1.1	19.4
12 7	4 9.82	+25 54.9	1.577	2.552	4.2	21.1	12 7	4 11.17	+20 15.3	1.067	2.043	5.0	19.6
12 17	3 59.47	+25 21.2	1.627	2.563	8.5	21.4	12 17	4 2.40	+19 54.6	1.093	2.037	10.8	19.9
12 27	3 51.64	+24 48.1	1.703	2.574	12.5	21.7	12 27	3 56.42	+19 41.3	1.142	2.032	15.8	20.2
1 6	3 46.89	+24 20.3	1.800	2.583	15.8	21.9	1 6	3 54.01	+19 38.5	1.210	2.027	20.1	20.5
8349	1988 <i>DH</i> ₁		11 28.8 231°99	4°5/27.3	18		352939	2009 <i>AY</i> ₄₄		11 28.8 322°99	1°0/28.7	18	
10 28	4 47.38	+12 7.9	1.579	2.437	14.7	17.9	10 28	4 48.25	+16 34.8	1.514	2.374	15.1	20.0
11 7	4 40.91	+11 26.5	1.507	2.429	10.9	17.7	11 7	4 41.90	+17 17.5	1.437	2.363	11.0	19.7
11 17	4 31.92	+10 47.8	1.459	2.421	6.9	17.5	11 17	4 32.69	+18 4.1	1.383	2.353	6.2	19.4
11 27	4 21.38	+10 16.1	1.437	2.413	4.5	17.3	11 27	4 21.56	+18 53.2	1.357	2.342	1.3	19.1
12 7	4 10.58	+ 9 55.3	1.443	2.404	6.7	17.4	12 7	4 9.92	+19 43.5	1.358	2.333	4.6	19.3
12 17	4 0.86	+ 9 48.6	1.476	2.394	10.8	17.6	12 17	3 59.29	+20 34.0	1.387	2.323	9.6	19.6
12 27	3 53.37	+ 9 57.4	1.533	2.385	14.8	17.8	12 27	3 51.05	+21 25.1	1.441	2.315	14.2	19.8
1 6	3 48.79	+10 20.9	1.610	2.374	18.2	18.1	1 6	3 46.02	+22 17.5	1.515	2.306	18.0	20.1
73201	2002 <i>JU</i> ₁₃		11 28.8 127°14	6°8/24.4	18		111636	2002 <i>AB</i> ₁₅₁		11 28.8 8°82	6°0/27.2	18	
10 28	4 41.18	- 1 23.6	2.771	3.588	10.3	20.2	10 28	4 41.62	+ 8 21.6	1.405	2.275	15.4	19.1
11 7	4 35.42	- 2 41.8	2.726	3.602	8.5	20.1	11 7	4 36.83	+ 7 50.4	1.352	2.277	11.6	18.9
11 17	4 28.44	- 3 49.8	2.707	3.616	7.1	20.1	11 17	4 29.63	+ 7 28.3	1.322	2.281	7.9	18.7
11 27	4 20.82	- 4 43.3	2.717	3.630	6.8	20.1	11 27	4 21.06	+ 7 19.8	1.315	2.285	6.0	18.6
12 7	4 13.22	- 5 19.4	2.755	3.643	7.7	20.2	12 7	4 12.40	+ 7 27.9	1.335	2.291	7.8	18.7
12 17	4 6.30	- 5 37.0	2.820	3.656	9.3	20.3	12 17	4 4.92	+ 7 53.4	1.379	2.298	11.4	18.9
12 27	4 0.60	- 5 36.5	2.909	3.668	11.0	20.4	12 27	3 59.66	+ 8 35.1	1.446	2.306	15.0	19.2
1 6	3 56.51	- 5 20.0	3.020	3.680	12.5	20.6	1 6	3 57.22	+ 9 30.2	1.533	2.315	18.2	19.4
110805	2001 <i>UC</i> ₄₂		11 28.8 295°99	0°0/28.7	17		164937	1999 <i>XW</i> ₁₄₅		11 28.8 142°15	0°0/28.7	18	
10 28	4 46.87	+19 57.3	1.849	2.700	13.1	19.3	10 28	4 47.40	+21 44.1	2.058	2.902	12.3	20.9
11 7	4 40.56	+20 28.3	1.762	2.684	9.6	19.0	11 7	4 40.44	+21 44.8	1.992	2.911	8.8	20.7
11 17	4 31.78	+20 58.7	1.700	2.668	5.4	18.7	11 17	4 31.46	+21 41.3	1.953	2.920	4.9	20.5
11 27	4 21.38	+21 27.4	1.666	2.652	0.8	18.4	11 27	4 21.34	+21 33.8	1.942	2.928	0.8	20.2
12 7	4 10.50	+21 54.0	1.661	2.636	3.8	18.6	12 7	4 11.15	+21 23.7	1.961	2.936	3.4	20.4
12 17	4 0.43	+22 18.8	1.685	2.620	8.3	18.8	12 17	4 1.95	+21 13.2	2.010	2.943	7.4	20.7
12 27	3 52.33	+22 43.5	1.735	2.605	12.4	19.0	12 27	3 54.63	+21 5.1	2.086	2.950	10.9	20.9
1 6	3 46.97	+23 10.2	1.808	2.589	15.9	19.2	1 6	3 49.74	+21 1.8	2.185	2.956	13.8	21.1
357284	2002 <i>TK</i> ₁₂₃		11 28.8 61°17	4°7/30.9	18		391503	2007 <i>PU</i> ₄₅		11 28.8 135°25	4°1/27.2	18	R
10 28	4 47.83	+35 8.8	1.755	2.582	14.9	20.7	10 28	4 46.08	+10 25.9	2.050	2.896	12.3	21.5
11 7	4 41.24	+35 9.9	1.689	2.587	11.5	20.5	11 7	4 39.32	+ 9 51.7	1.994	2.909	9.1	21.3
11 17	4 32.05	+34 53.8	1.646	2.593	7.9	20.3	11 17	4 30.76	+ 9 21.9	1.963	2.920	5.9	21.2
11 27	4 21.38	+34 18.5	1.629	2.599	5.0	20.2	11 27	4 21.23	+ 8 59.6	1.960	2.932	4.1	21.1
12 7	4 10.69	+33 26.0	1.640	2.606	5.5	20.2	12 7	4 11.70	+ 8 47.2	1.987	2.943	5.7	21.2
12 17	4 1.36	+32 21.6	1.679	2.612	8.6	20.4	12 17	4 3.14	+ 8 46.3	2.043	2.953	8.8	21.4
12 27	3 54.49	+31 12.7	1.744	2.618	12.1	20.6	12 27	3 56.33	+ 8 57.5	2.125	2.962	11.8	21.6
1 6	3 50.66	+30 6.5	1.831	2.625	15.2	20.8	1 6	3 51.76	+ 9 20.0	2.229	2.972	14.4	21.8
311843	2006 <i>VQ</i> ₆₉		11 28.8 339°09	1°0/28.5	18		446605	2015 <i>MX</i> ₄₆		11 28.8			

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11 28.8

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
494602	2017 <i>BQ</i> ₁₁₂		11 28.8 291°83	4°0/29.9	17		329491	2002 <i>QQ</i> ₁₃₂		11 28.8 351°95	3°7/27.5	17	
10 28	4 47.33	+31 12.9	1.881	2.715	13.7	21.1	10 28	4 41.76	+11 28.3	1.945	2.802	12.4	20.4
11 7	4 41.02	+31 48.4	1.797	2.703	10.5	20.9	11 7	4 36.49	+11 7.3	1.877	2.799	9.1	20.2
11 17	4 32.11	+32 13.2	1.737	2.690	7.0	20.7	11 17	4 29.33	+10 50.4	1.834	2.797	5.8	20.0
11 27	4 21.48	+32 24.3	1.704	2.678	4.2	20.5	11 27	4 21.05	+10 40.3	1.819	2.794	3.7	19.9
12 7	4 10.43	+32 20.8	1.699	2.666	5.1	20.5	12 7	4 12.63	+10 39.2	1.831	2.793	5.5	20.0
12 17	4 0.33	+32 4.7	1.722	2.654	8.5	20.7	12 17	4 5.05	+10 48.5	1.872	2.791	8.8	20.2
12 27	3 52.41	+31 40.9	1.771	2.642	12.1	20.9	12 27	3 59.17	+11 8.8	1.937	2.790	12.1	20.4
1 6	3 47.45	+31 15.1	1.842	2.630	15.4	21.1	1 6	3 55.54	+11 39.4	2.025	2.790	14.9	20.6
455494	2003 <i>UJ</i> ₃₅₈		11 28.8 24°33	2°2/27.7	17		293463	2007 <i>EK</i> ₂₀₅		11 28.8 138°74	4°0/26.9	18	
10 28	4 41.68	+16 49.6	2.130	2.986	11.5	21.5	10 28	4 41.94	+10 17.0	2.280	3.129	11.1	21.0
11 7	4 36.26	+16 8.7	2.064	2.988	8.3	21.3	11 7	4 36.32	+9 33.6	2.216	3.132	8.2	20.8
11 17	4 29.11	+15 26.5	2.022	2.989	4.8	21.1	11 17	4 29.10	+8 53.9	2.179	3.136	5.5	20.6
11 27	4 20.98	+14 45.6	2.009	2.991	2.2	20.9	11 27	4 21.01	+8 21.1	2.169	3.139	4.0	20.5
12 7	4 12.80	+14 9.2	2.026	2.994	4.3	21.1	12 7	4 12.86	+7 58.0	2.189	3.142	5.5	20.6
12 17	4 5.46	+13 40.3	2.071	2.996	7.7	21.3	12 17	4 5.48	+7 46.5	2.238	3.145	8.3	20.8
12 27	3 59.72	+13 21.2	2.143	2.998	11.0	21.5	12 27	3 59.58	+7 47.6	2.313	3.148	11.0	21.0
1 6	3 56.10	+13 12.8	2.237	3.001	13.7	21.7	1 6	3 55.63	+8 0.7	2.409	3.150	13.5	21.2
13209	Arnhem		11 28.8 312°87	0°8/28.6	18		271977	2005 <i>BB</i> ₂₉		11 28.8 356°84	3°1/27.8	17	
10 28	4 46.18	+20 5.2	1.314	2.185	16.3	17.8	10 28	4 42.44	+12 33.5	2.021	2.877	12.0	20.1
11 7	4 40.69	+20 0.5	1.240	2.171	11.8	17.5	11 7	4 36.93	+12 22.0	1.953	2.875	8.8	19.9
11 17	4 32.11	+19 52.0	1.187	2.158	6.7	17.1	11 17	4 29.56	+12 13.9	1.910	2.874	5.4	19.7
11 27	4 21.49	+19 40.6	1.160	2.146	1.2	16.8	11 27	4 21.09	+12 11.2	1.895	2.873	3.1	19.6
12 7	4 10.42	+19 28.6	1.158	2.134	5.0	17.0	12 7	4 12.49	+12 15.7	1.909	2.873	4.9	19.7
12 17	4 0.58	+19 19.3	1.182	2.122	10.6	17.3	12 17	4 4.71	+12 28.4	1.950	2.873	8.3	19.9
12 27	3 53.41	+19 16.6	1.229	2.111	15.5	17.5	12 27	3 58.60	+12 50.2	2.018	2.873	11.6	20.1
1 6	3 49.73	+19 23.3	1.296	2.101	19.7	17.8	1 6	3 54.71	+13 20.5	2.108	2.874	14.4	20.3
227977	2007 <i>HV</i> ₇₉		11 28.8 258°83	1°3/29.2	17		447947	2008 <i>AC</i> ₁₂₉		11 28.8 120°11	1°3/28.4	18	
10 28	4 45.42	+24 24.8	2.219	3.061	11.6	20.6	10 28	4 45.29	+18 1.6	1.965	2.818	12.4	21.6
11 7	4 39.12	+24 48.2	2.140	3.056	8.5	20.4	11 7	4 39.01	+17 54.9	1.900	2.822	8.9	21.4
11 17	4 30.81	+25 6.8	2.087	3.052	4.9	20.1	11 17	4 30.72	+17 46.9	1.859	2.827	5.0	21.1
11 27	4 21.27	+25 19.6	2.063	3.048	1.5	19.9	11 27	4 21.27	+17 38.9	1.846	2.832	1.4	20.9
12 7	4 11.49	+25 26.5	2.069	3.043	3.3	20.0	12 7	4 11.72	+17 32.4	1.863	2.836	3.9	21.1
12 17	4 2.49	+25 29.1	2.104	3.039	7.0	20.2	12 17	4 3.12	+17 29.5	1.909	2.840	7.9	21.3
12 27	3 55.20	+25 29.7	2.167	3.034	10.4	20.5	12 27	3 56.36	+17 32.0	1.981	2.844	11.4	21.6
1 6	3 50.22	+25 31.3	2.253	3.030	13.3	20.6	1 6	3 52.00	+17 41.4	2.076	2.848	14.4	21.8
184914	2005 <i>UF</i> ₃₈₉		11 28.8 250°44	0°4/28.9	18		461356	1999 <i>VN</i> ₄₆		11 28.8 45°72	5°1/26.1	14 C	
10 28	4 44.77	+22 56.7	2.035	2.884	12.2	21.1	10 28	4 50.93	+24 29.8	0.773	1.664	22.4	19.0
11 7	4 38.70	+22 55.5	1.961	2.881	8.9	20.9	11 7	4 44.24	+20 42.1	0.737	1.680	15.9	18.7
11 17	4 30.58	+22 49.0	1.911	2.879	5.0	20.6	11 17	4 33.78	+16 32.6	0.723	1.696	8.9	18.4
11 27	4 21.23	+22 37.7	1.890	2.876	0.9	20.3	11 27	4 21.68	+12 25.3	0.733	1.714	5.2	18.3
12 7	4 11.71	+22 22.8	1.898	2.873	3.4	20.5	12 7	4 10.35	+8 47.2	0.767	1.733	9.8	18.7
12 17	4 3.08	+22 6.9	1.935	2.870	7.4	20.8	12 17	4 1.69	+5 57.6	0.826	1.752	15.9	19.1
12 27	3 56.27	+21 53.1	1.998	2.867	11.0	21.0	12 27	3 56.84	+4 2.7	0.903	1.771	21.0	19.5
1 6	3 51.88	+21 44.1	2.085	2.865	14.1	21.2	1 6	3 56.04	+2 57.4	0.996	1.792	25.0	19.8
426064	2012 <i>BL</i> ₁₁₂		11 28.8 148°42	2°0/29.5	16		214304	2005 <i>JK</i> ₁₅		11 28.8 80°06	1°4/28.2	18 R	
10 28	4 51.83	+27 28.1	1.644	2.486	15.0	21.7	10 28	4 45.19	+19 15.3	1.804	2.661	13.2	20.4
11 7	4 44.08	+27 24.0	1.581	2.495	11.0	21.5	11 7	4 38.95	+18 43.3	1.748	2.673	9.4	20.2
11 17	4 33.65	+27 8.5	1.541	2.504	6.5	21.2	11 17	4 30.66	+18 8.2	1.717	2.686	5.3	20.0
11 27	4 21.69	+26 41.1	1.528	2.512	2.4	21.0	11 27	4 21.25	+17 32.2	1.713	2.698	1.5	19.7
12 7	4 9.70	+26 3.9	1.545	2.519	4.2	21.1	12 7	4 11.89	+16 58.6	1.739	2.711	4.2	19.9
12 17	3 59.12	+25 21.6	1.589	2.525	8.7	21.4	12 17	4 3.63	+16 30.7	1.792	2.723	8.3	20.2
12 27	3 51.09	+24 40.3	1.660	2.531	12.8	21.7	12 27	3 57.38	+16 11.5	1.872	2.736	11.9	20.5
1 6	3 46.21	+24 5.1	1.753	2.536	16.2	21.9	1 6	3 53.64	+16 2.5	1.973	2.748	14.9	20.7
485554	2011 <i>UY</i> ₁₄₀		11 28.8 7°54	1°8/28.3	17		43506	2001 <i>CE</i> ₃₆		11 28.8 151°13	1°7/28.1	18	
10 28	4 43.35	+17 37.3	1.328	2.202	15.8	20.9	10 28	4 43.29	+15 50.3	2.620	3.464	10.0	19.0
11 7	4 38.34	+17 32.1	1.270	2.203	11.4	20.6	11 7	4 37.16	+15 43.5	2.552	3.471	7.2	18.9
11 17	4 30.60	+17 26.3	1.234	2.205	6.5	20.4	11 17	4 29.54	+15 36.9	2.511	3.477	4.1	18.7
11 27	4 21.24	+17 21.9	1.223	2.209	1.9	20.1	11 27	4 21.09	+15 31.9	2.500	3.483	1.7	18.5
12 7	4 11.73	+17 20.8	1.239	2.213	5.1	20.3	12 7	4 12.57	+15 29.6	2.519	3.488	3.4	18.7
12 17	4 3.52	+17 25.5	1.279	2.218	10.0	20.6	12 17	4 4.74	+15 31.3	2.569	3.493	6.5	18.9
12 27	3 57.80	+17 38.0	1.343	2.225	14.5	20.9	12 27	3 58.28	+15 38.2	2.646	3.498	9.3	19.0
1 6	3 55.22	+17 59.2	1.427	2.232	18.2	21.2	1 6	3 53.63	+15 50.9	2.748	3.502	11.7	19.2
245880	2006 <i>QM</i> ₁₉		11 28.8 28°54	4°4/26.9	18		115968	2003 <i>WT</i> ₄₄		11 28.8 38°52	5°0/26.9	18	
10 28	4 40.50	+7 52.4	2.304	3.152	11.0	20.2	10 28	4 41.97	+7 20.1	2.056	2.905	12.1	19.4
11 7	4 35.27	+7 25.4	2.244	3.157	8.3	20.0	11 7	4 36.46	+6 50.4	1.998	2.911	9.2	19.2
11 17	4 28.52	+7 4.5	2.209	3.162	5.7	19.9	11 17	4 29.23	+6 27.9	1.965	2.917	6.4	19.1
11 27	4 20.91	+6 52.4	2.202	3.168	4.4	19.8	11 27	4 21.05	+6 15.7	1.960	2.924	5.0	19.0
12 7	4 13.25	+6 51.0	2.224	3.173	5.7	19.9	12 7	4 12.82	+6 16.1	1.983	2.931	6.4	19.1
12 17	4 6.32	+7 1.5	2.274	3.179	8.3	20.1	12 17	4 5.44	+6 30.0	2.033	2.938	9.1	19.3
12 27	4 0.82	+7 23.7	2.350	3.185	10.9	20.3	12 27	3 59.66	+6 57.2	2.109	2.945	11.9	19.5
1 6	3 57.20	+7 56.4	2.449	3.192	13.2	20.4	1 6	3 55.99	+7 35.8	2.207	2.953	14.4	19.7
308796	2006 <i>QM</i> ₅₂		11 28.8 81°18	1°8/28.2	18		143175	2002 <i>XJ</i> ₆₈		11 28.8 318°05	8°7/30.8		

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
358946	2008 <i>JY</i> ₂₆		11 28.8 142°01	1.3/29.3	18		80975	2000 <i>EX</i> ₁		11 28.8 172°66	0.4/28.7	18	
10 28	4 46.78	+25 3.6	2.473	3.306	10.9	21.0	10 28	4 48.40	+21 24.6	1.879	2.726	13.2	21.1
11 7	4 39.85	+25 28.2	2.403	3.315	7.9	20.9	11 7	4 41.37	+21 7.6	1.809	2.729	9.5	20.9
11 17	4 31.13	+25 47.5	2.361	3.323	4.6	20.7	11 17	4 32.10	+20 45.4	1.764	2.732	5.3	20.7
11 27	4 21.36	+26 0.6	2.347	3.331	1.6	20.5	11 27	4 21.54	+20 19.2	1.748	2.734	0.9	20.3
12 7	4 11.47	+26 7.5	2.365	3.338	3.1	20.6	12 7	4 10.88	+19 51.3	1.761	2.735	3.8	20.6
12 17	4 2.37	+26 9.6	2.413	3.346	6.4	20.8	12 17	4 1.28	+19 25.1	1.804	2.736	8.1	20.8
12 27	3 54.88	+26 9.4	2.490	3.352	9.4	21.0	12 27	3 53.74	+19 4.2	1.873	2.736	11.9	21.1
1 6	3 49.53	+26 9.4	2.591	3.359	11.9	21.2	1 6	3 48.84	+18 51.2	1.964	2.736	15.1	21.3
286317	2001 <i>WM</i> ₆₈		11 28.8 318°27	1.1/28.5	18		162223	1999 <i>TR</i> ₁₁₉		11 28.8 69°12	7.9/1.5	18	
10 28	4 44.87	+20 8.4	1.363	2.234	15.8	20.7	10 28	4 53.70	+39 46.4	1.629	2.437	16.7	19.4
11 7	4 39.64	+19 49.7	1.288	2.220	11.5	20.4	11 7	4 45.94	+40 51.2	1.577	2.454	13.5	19.2
11 17	4 31.49	+19 26.1	1.235	2.206	6.5	20.1	11 17	4 34.93	+41 35.4	1.547	2.471	10.3	19.1
11 27	4 21.45	+18 59.4	1.208	2.193	1.4	19.7	11 27	4 21.99	+41 53.2	1.541	2.488	8.1	19.0
12 7	4 11.01	+18 32.9	1.206	2.181	5.0	19.9	12 7	4 8.93	+41 43.3	1.562	2.505	8.3	19.0
12 17	4 1.76	+18 10.7	1.230	2.169	10.3	20.2	12 17	3 57.54	+41 9.7	1.609	2.522	10.5	19.2
12 27	3 55.04	+17 57.3	1.278	2.158	15.2	20.4	12 27	3 49.21	+40 21.0	1.681	2.539	13.3	19.4
1 6	3 51.64	+17 55.1	1.344	2.147	19.2	20.7	1 6	3 44.60	+39 26.4	1.774	2.556	16.1	19.7
269482	2009 <i>TO</i> ₄₂		11 28.8 345°65	4.0/30.2	17		59294	1999 <i>CY</i> ₅₈		11 28.8 338°55	4.2/29.8	18	
10 28	4 44.87	+31 37.4	1.870	2.708	13.7	20.1	10 28	4 47.97	+29 11.5	1.339	2.195	16.9	18.1
11 7	4 39.17	+32 5.7	1.795	2.702	10.4	19.9	11 7	4 42.19	+29 54.6	1.269	2.188	12.8	17.9
11 17	4 31.03	+32 22.4	1.744	2.697	6.9	19.7	11 17	4 33.06	+30 26.4	1.221	2.182	8.2	17.6
11 27	4 21.37	+32 25.2	1.719	2.693	4.2	19.5	11 27	4 21.73	+30 42.8	1.197	2.176	4.5	17.4
12 7	4 11.43	+32 13.9	1.722	2.689	5.0	19.5	12 7	4 9.94	+30 42.6	1.200	2.171	5.8	17.4
12 17	4 2.50	+31 51.2	1.752	2.686	8.2	19.7	12 17	3 59.52	+30 28.6	1.227	2.166	10.3	17.7
12 27	3 55.70	+31 22.0	1.808	2.683	11.7	19.9	12 27	3 52.03	+30 7.2	1.278	2.163	14.9	17.9
1 6	3 51.73	+30 51.7	1.886	2.680	14.8	20.1	1 6	3 48.32	+29 45.4	1.349	2.159	18.8	18.2
289032	2004 <i>TL</i> ₁₂₉		11 28.8 89°58	6°0/26.3	18		293336	2007 <i>DW</i> ₈₆		11 28.8 286°45	3°8/30.4	17	
10 28	4 42.37	+4 13.8	2.150	2.991	12.0	20.0	10 28	4 46.10	+32 38.9	2.057	2.885	13.0	20.7
11 7	4 36.64	+3 27.9	2.097	3.000	9.3	19.8	11 7	4 39.85	+32 52.4	1.980	2.881	9.9	20.5
11 17	4 29.30	+2 50.9	2.069	3.010	7.0	19.7	11 17	4 31.33	+32 53.5	1.927	2.878	6.6	20.3
11 27	4 21.08	+2 26.7	2.069	3.020	6.0	19.7	11 27	4 21.43	+32 40.4	1.902	2.875	4.0	20.2
12 7	4 12.86	+2 18.0	2.097	3.029	7.2	19.7	12 7	4 11.35	+32 13.7	1.905	2.872	4.6	20.2
12 17	4 5.47	+2 25.8	2.152	3.039	9.6	19.9	12 17	4 2.25	+31 36.6	1.937	2.868	7.7	20.4
12 27	3 59.65	+2 49.3	2.232	3.048	12.1	20.1	12 27	3 55.17	+30 54.1	1.995	2.865	11.0	20.6
1 6	3 55.83	+3 26.5	2.333	3.057	14.3	20.3	1 6	3 50.74	+30 11.9	2.076	2.862	13.9	20.8
302770	2002 <i>VR</i> ₁₂₃		11 28.8 41°71	2°3/30.1	17		186462	2002 <i>TE</i> ₅		11 28.8 27°36	6°0/27.3	18	
10 28	4 47.18	+31 38.2	1.461	2.309	16.2	19.4	10 28	4 43.58	+12 22.8	0.928	1.820	19.4	18.7
11 7	4 40.74	+30 34.4	1.410	2.326	12.0	19.2	11 7	4 38.82	+11 25.0	0.897	1.836	14.2	18.5
11 17	4 31.71	+29 11.9	1.382	2.344	7.3	19.0	11 17	4 30.90	+10 34.2	0.885	1.853	9.0	18.3
11 27	4 21.43	+27 33.7	1.380	2.362	2.8	18.8	11 27	4 21.35	+9 57.4	0.895	1.873	6.0	18.2
12 7	4 11.45	+25 46.9	1.406	2.381	4.3	18.9	12 7	4 12.03	+9 39.9	0.928	1.893	8.5	18.4
12 17	4 3.13	+24 0.6	1.460	2.401	8.8	19.2	12 17	4 4.59	+9 43.8	0.983	1.915	13.2	18.7
12 27	3 57.45	+22 23.6	1.540	2.421	13.0	19.5	12 27	4 0.21	+10 8.3	1.058	1.938	17.6	19.1
1 6	3 54.84	+21 2.1	1.641	2.441	16.4	19.8	1 6	3 59.35	+10 49.5	1.151	1.963	21.3	19.4
496632	2015 <i>UE</i> ₅₁		11 28.8 331°71	21°9/27.5	17		75269	1999 <i>XU</i> ₁₅		11 28.8 9°62	7°7/28.1	18	
10 28	4 52.65	-21 15.2	1.043	1.825	25.7	20.6	10 28	4 45.87	+2 57.9	1.292	2.151	17.2	17.2
11 7	4 45.46	-22 30.6	1.005	1.823	23.9	20.4	11 7	4 40.11	+3 2.6	1.238	2.153	13.4	17.0
11 17	4 34.73	-22 57.6	0.981	1.821	22.5	20.3	11 17	4 31.60	+3 25.4	1.206	2.156	9.8	16.8
11 27	4 21.94	-22 23.5	0.973	1.820	21.9	20.3	11 27	4 21.48	+4 9.9	1.197	2.160	7.7	16.7
12 7	4 9.11	-20 44.2	0.981	1.818	22.4	20.3	12 7	4 11.22	+5 16.3	1.214	2.165	9.1	16.8
12 17	3 58.15	-18 6.0	1.007	1.817	23.8	20.4	12 17	4 2.26	+6 41.5	1.256	2.172	12.5	17.0
12 27	3 50.53	-14 42.8	1.049	1.816	25.7	20.6	12 27	3 55.82	+8 20.7	1.321	2.179	16.3	17.3
1 6	3 46.89	-10 52.3	1.106	1.816	27.8	20.8	1 6	3 52.54	+10 8.5	1.406	2.188	19.6	17.5
7349	Ernestmaes		11 28.8 2°59	1°5/28.3	18		344960	2004 <i>XE</i> ₇		11 28.8 4°91	4°7/30.7	18	
10 28	4 44.73	+18 23.4	1.671	2.532	13.8	18.3	10 28	4 44.95	+33 18.0	1.251	2.107	17.9	19.1
11 7	4 38.94	+18 8.5	1.605	2.532	10.0	18.1	11 7	4 39.96	+33 11.0	1.190	2.106	13.7	18.9
11 17	4 30.82	+17 51.6	1.562	2.532	5.6	17.8	11 17	4 31.70	+32 43.2	1.149	2.107	9.0	18.6
11 27	4 21.34	+17 34.4	1.547	2.532	1.6	17.6	11 27	4 21.50	+31 53.3	1.131	2.109	5.1	18.4
12 7	4 11.70	+17 19.4	1.559	2.532	4.4	17.8	12 7	4 11.21	+30 44.7	1.139	2.111	5.9	18.5
12 17	4 3.13	+17 9.3	1.599	2.533	8.8	18.0	12 17	4 2.57	+29 25.2	1.172	2.115	10.2	18.7
12 27	3 56.67	+17 6.7	1.664	2.534	12.8	18.3	12 27	3 56.97	+28 4.9	1.228	2.120	14.7	19.0
1 6	3 52.93	+17 12.9	1.750	2.535	16.2	18.5	1 6	3 55.01	+26 52.6	1.304	2.126	18.6	19.3
358274	2006 <i>UD</i> ₄		11 28.8 83°35	2°3/27.9	18		465982	2011 <i>CQ</i> ₇₉		11 28.8 329°50	3°1/30.4	17	
10 28	4 44.53	+16 27.1	1.890	2.745	12.7	21.3	10 28	4 44.36	+32 1.5	2.154	2.984	12.4	21.0
11 7	4 38.43	+15 57.5	1.832	2.756	9.1	21.1	11 7	4 38.45	+31 56.8	2.077	2.981	9.4	20.8
11 17	4 30.38	+15 27.5	1.800	2.767	5.3	20.9	11 17	4 30.48	+31 39.8	2.025	2.978	6.1	20.6
11 27	4 21.26	+14 59.4	1.795	2.778	2.3	20.7	11 27	4 21.31	+31 9.8	2.000	2.976	3.4	20.4
12 7	4 12.14	+14 36.2	1.819	2.788	4.5	20.9	12 7	4 12.02	+30 28.3	2.004	2.973	4.1	20.4
12 17	4 4.04	+14 20.3	1.872	2.799	8.3	21.2	12 17	4 3.68	+29 38.9	2.037	2.971	7.2	20.6
12 27	3 57.82	+14 13.9	1.951	2.810	11.7	21.4	12 27	3 57.21	+28 46.8	2.097	2.969	10.4	20.8
1 6	3 53.98	+14 17.4	2.051	2.820	14.6	21.6	1 6	3 53.18	+27 57.1	2.180	2.967	13.3	21.0
318232	2004 <i>RQ</i> ₂₂₉		11 28.8 354°52	3°2/27.3	18		484484	2008 <i>CF</i> ₁₇₀		11 28.8 229°03	1°2/29.3		

EPHEMERIDES

11 28.8

11 28.8

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
316514	2010 <i>VM</i> ₁₆₂		11 28.8 68°33'	1.6°/29.5 18			72894	2001 <i>KE</i> ₄₅		11 28.8 327°44'	6.0°/27.5 18		
10 28	4 44.97	+27 12.5	1.984	2.827	12.7	20.5	10 28	4 44.15	+4 4.8	1.892	2.736	13.3	18.0
11 7	4 38.86	+27 1.6	1.919	2.834	9.3	20.3	11 7	4 38.38	+4 4.2	1.816	2.722	10.3	17.8
11 17	4 30.68	+26 41.3	1.878	2.841	5.5	20.1	11 17	4 30.53	+4 15.4	1.763	2.710	7.5	17.6
11 27	4 21.34	+26 12.1	1.865	2.849	1.9	19.9	11 27	4 21.37	+4 41.4	1.737	2.698	6.0	17.5
12 7	4 11.97	+25 36.0	1.881	2.856	3.5	20.0	12 7	4 11.94	+5 23.4	1.739	2.686	7.2	17.6
12 17	4 3.63	+24 56.7	1.926	2.863	7.3	20.2	12 17	4 3.29	+6 20.9	1.769	2.675	10.2	17.7
12 27	3 57.24	+24 18.7	1.998	2.871	10.9	20.5	12 27	3 56.39	+7 31.7	1.824	2.664	13.3	17.9
1 6	3 53.34	+23 45.8	2.093	2.878	13.8	20.7	1 6	3 51.88	+8 52.8	1.901	2.654	16.2	18.1
520411	2014 <i>JY</i> ₈₇		11 28.8 83°65'	2.9°/27.9 18			245819	2006 <i>JL</i> ₃₀		11 28.8 141°57'	1.0°/28.4 18		
10 28	4 45.45	+14 21.4	1.820	2.675	13.1	21.5	10 28	4 46.80	+19 19.1	2.057	2.905	12.2	21.6
11 7	4 39.14	+13 59.9	1.765	2.688	9.5	21.3	11 7	4 40.01	+19 4.6	1.994	2.914	8.7	21.4
11 17	4 30.80	+13 40.1	1.735	2.701	5.6	21.1	11 17	4 31.28	+18 47.4	1.956	2.923	4.9	21.2
11 27	4 21.36	+13 24.5	1.733	2.713	2.9	21.0	11 27	4 21.47	+18 28.7	1.946	2.932	1.2	21.0
12 7	4 11.92	+13 15.4	1.759	2.726	5.0	21.1	12 7	4 11.62	+18 10.7	1.967	2.940	3.7	21.2
12 17	4 3.55	+13 14.6	1.814	2.738	8.7	21.4	12 17	4 2.75	+17 55.6	2.017	2.947	7.5	21.4
12 27	3 57.13	+13 23.4	1.894	2.751	12.1	21.6	12 27	3 55.71	+17 46.1	2.094	2.955	11.0	21.6
1 6	3 53.16	+13 41.7	1.996	2.763	15.0	21.8	1 6	3 51.02	+17 43.7	2.194	2.961	13.9	21.9
67435	2000 <i>QH</i> ₁₂₁		11 28.8 217°60'	3.0°/29.8 18			360962	2005 <i>UF</i> ₁₂₉		11 28.8 132°38'	0.7°/29.1 18		
10 28	4 50.36	+29 16.8	1.427	2.276	16.5	18.8	10 28	4 45.06	+24 17.8	2.182	3.026	11.7	21.8
11 7	4 43.60	+29 18.9	1.358	2.274	12.3	18.6	11 7	4 38.79	+24 14.3	2.114	3.031	8.5	21.6
11 17	4 33.69	+29 7.0	1.310	2.272	7.6	18.3	11 17	4 30.62	+24 4.8	2.070	3.036	4.8	21.4
11 27	4 21.84	+28 39.3	1.288	2.269	3.4	18.1	11 27	4 21.37	+23 49.4	2.056	3.041	1.1	21.1
12 7	4 9.75	+27 57.6	1.292	2.266	5.0	18.2	12 7	4 12.04	+23 29.7	2.071	3.046	3.2	21.3
12 17	3 59.13	+27 7.4	1.324	2.263	9.7	18.4	12 17	4 3.60	+23 8.3	2.115	3.050	6.9	21.6
12 27	3 51.35	+26 16.3	1.380	2.260	14.3	18.7	12 27	3 56.91	+22 48.2	2.187	3.055	10.3	21.8
1 6	3 47.15	+25 31.4	1.457	2.257	18.1	18.9	1 6	3 52.49	+22 32.5	2.282	3.059	13.1	22.0
248266	2005 <i>GC</i> ₁₆₁		11 28.8 134°62'	1.9°/29.4 18			365295	2009 <i>RJ</i> ₄₆		11 28.8 90°32'	2.9°/27.4 18		
10 28	4 48.92	+26 17.3	2.189	3.023	12.1	20.7	10 28	4 42.77	+14 27.8	2.184	3.037	11.4	20.6
11 7	4 41.58	+26 43.8	2.123	3.034	8.8	20.5	11 7	4 36.96	+13 43.8	2.127	3.049	8.2	20.4
11 17	4 32.18	+27 3.4	2.083	3.045	5.3	20.3	11 17	4 29.51	+13 0.4	2.096	3.060	5.0	20.3
11 27	4 21.59	+27 14.8	2.073	3.055	2.1	20.2	11 27	4 21.19	+12 20.8	2.094	3.072	2.9	20.1
12 7	4 10.89	+27 18.1	2.092	3.065	3.5	20.3	12 7	4 12.89	+11 48.0	2.121	3.084	4.7	20.3
12 17	4 1.15	+27 15.0	2.142	3.074	7.0	20.5	12 17	4 5.46	+11 24.4	2.177	3.096	7.8	20.5
12 27	3 53.29	+27 8.7	2.219	3.083	10.3	20.7	12 27	3 59.62	+11 11.8	2.260	3.107	10.8	20.7
1 6	3 47.88	+27 2.6	2.320	3.092	13.1	20.9	1 6	3 55.83	+11 10.3	2.365	3.119	13.3	20.9
399173	2014 <i>FR</i> ₄₁		11 28.8 164°08'	2.3°/27.9 18			42725	1998 <i>QK</i> ₈₀		11 28.8 62°80'	1.3°/29.5 18		
10 28	4 45.46	+14 19.2	2.516	3.357	10.4	22.5	10 28	4 47.20	+28 29.2	1.621	2.469	14.9	17.9
11 7	4 38.76	+14 3.5	2.447	3.363	7.6	22.3	11 7	4 40.64	+27 37.0	1.564	2.482	10.9	17.7
11 17	4 30.48	+13 48.8	2.406	3.369	4.5	22.1	11 17	4 31.70	+26 30.9	1.531	2.496	6.3	17.5
11 27	4 21.33	+13 36.8	2.394	3.375	2.3	22.0	11 27	4 21.53	+25 13.2	1.525	2.510	1.8	17.2
12 7	4 12.11	+13 29.1	2.414	3.379	4.0	22.1	12 7	4 11.52	+23 49.3	1.548	2.524	3.9	17.4
12 17	4 3.63	+13 27.2	2.464	3.383	7.0	22.3	12 17	4 2.94	+22 26.4	1.599	2.538	8.4	17.7
12 27	3 56.62	+13 32.1	2.541	3.386	9.8	22.5	12 27	3 56.75	+21 11.3	1.677	2.552	12.4	18.0
1 6	3 51.53	+13 44.4	2.643	3.389	12.3	22.7	1 6	3 53.44	+20 9.0	1.776	2.567	15.7	18.3
26866	1993 <i>FW</i> ₄₁		11 28.8 95°91'	2.3°/29.5 18			361832	2008 <i>CS</i> ₂₀₆		11 28.8 8°22'	1.9°/29.4 17		
10 28	4 49.59	+27 7.0	1.514	2.364	15.6	19.3	10 28	4 45.63	+26 15.0	1.651	2.504	14.4	21.4
11 7	4 42.74	+27 17.9	1.452	2.371	11.5	19.1	11 7	4 39.79	+26 28.6	1.584	2.505	10.6	21.2
11 17	4 33.07	+27 18.2	1.414	2.378	6.9	18.8	11 17	4 31.42	+26 33.7	1.541	2.506	6.3	20.9
11 27	4 21.74	+27 6.7	1.402	2.385	2.6	18.6	11 27	4 21.52	+26 29.2	1.523	2.507	2.3	20.7
12 7	4 10.30	+26 44.8	1.417	2.392	4.5	18.7	12 7	4 11.42	+26 16.2	1.534	2.509	4.1	20.8
12 17	4 0.27	+26 16.3	1.460	2.398	9.1	19.0	12 17	4 2.48	+25 57.7	1.572	2.511	8.5	21.1
12 27	3 52.86	+25 47.2	1.527	2.405	13.3	19.3	12 27	3 55.82	+25 38.2	1.635	2.514	12.5	21.3
1 6	3 48.73	+25 22.5	1.616	2.412	16.8	19.6	1 6	3 52.10	+25 22.0	1.720	2.517	15.9	21.5
22915	1999 <i>TA</i> ₄₀		11 28.8 169°27'	4.6°/27.0 18			520434	2014 <i>KN</i>		11 28.8 121°61'	1.2°/28.5 18		
10 28	4 42.78	+7 29.4	2.294	3.138	11.2	18.6	10 28	4 48.12	+17 3.9	2.119	2.963	12.0	21.3
11 7	4 36.97	+7 1.9	2.229	3.139	8.5	18.4	11 7	4 40.90	+17 18.0	2.058	2.977	8.6	21.1
11 17	4 29.54	+6 40.5	2.189	3.140	5.9	18.3	11 17	4 31.77	+17 32.1	2.024	2.990	4.8	20.9
11 27	4 21.19	+6 28.3	2.177	3.141	4.6	18.2	11 27	4 21.56	+17 46.5	2.019	3.004	1.3	20.7
12 7	4 12.75	+6 27.1	2.194	3.142	5.9	18.3	12 7	4 11.30	+18 1.6	2.044	3.016	3.6	20.9
12 17	4 5.05	+6 38.2	2.240	3.142	8.5	18.4	12 17	4 1.98	+18 18.5	2.099	3.029	7.4	21.2
12 27	3 58.83	+7 1.3	2.312	3.143	11.2	18.6	12 27	3 54.46	+18 38.1	2.182	3.040	10.7	21.4
1 6	3 54.57	+7 35.5	2.406	3.143	13.6	18.8	1 6	3 49.27	+19 1.7	2.289	3.052	13.5	21.6
4180	Anaxagoras		11 28.8 207°98'	3.9°/26.9 18			515885	2015 <i>PP</i> ₃₅		11 28.8 176°61'	1.3°/29.3 18		
10 28	4 44.44	+11 44.3	2.241	3.087	11.4	18.6	10 28	4 48.04	+25 0.2	1.848	2.693	13.4	22.0
11 7	4 38.23	+10 51.4	2.166	3.081	8.4	18.4	11 7	4 41.30	+25 11.0	1.777	2.694	9.8	21.7
11 17	4 30.28	+10 0.2	2.117	3.075	5.4	18.2	11 17	4 32.18	+25 14.8	1.730	2.695	5.7	21.5
11 27	4 21.31	+9 14.3	2.097	3.069	3.9	18.1	11 27	4 21.64	+25 10.9	1.711	2.696	1.7	21.2
12 7	4 12.22	+8 37.1	2.107	3.061	5.5	18.2	12 7	4 10.90	+25 0.0	1.721	2.696	3.8	21.4
12 17	4 3.90	+8 11.5	2.146	3.054	8.5	18.4	12 17	4 1.22	+24 44.8	1.760	2.696	8.0	21.6
12 27	3 57.14	+7 59.2	2.212	3.045	11.5	18.5	12 27	3 53.66	+24 29.3	1.825	2.696	11.8	21.9
1 6	3 52.46	+8 0.1	2.299	3.036	14.2	18.7	1 6	3 48.86	+24 17.1	1.912	2.695	15.1	22.1
264470	2001 <i>FL</i> ₁₂₁		11 28.8 198°84'	3.9°/ 1.2 18			72791	2001 <i>FW</i> ₁₇₅		11 28.8 158°81'	0.7°/29.1 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
298668	2004 CW ₆₅		11 28.8 351°18	1°2/28.6	18		196074	2002 TT ₇₄		11 28.8 93°98	4°3/30.6	18	
10 28	4 45.26	+18 6.6	1.500	2.366	14.9	19.6	10 28	4 47.78	+34 37.7	2.449	3.259	11.7	20.0
11 7	4 39.65	+18 16.0	1.433	2.362	10.8	19.3	11 7	4 40.80	+35 19.7	2.385	3.272	9.1	19.9
11 17	4 31.41	+18 25.1	1.388	2.358	6.1	19.0	11 17	4 31.81	+35 50.3	2.345	3.285	6.4	19.7
11 27	4 21.54	+18 34.5	1.370	2.356	1.4	18.7	11 27	4 21.63	+36 7.0	2.334	3.297	4.5	19.6
12 7	4 11.40	+18 45.0	1.379	2.353	4.5	19.0	12 7	4 11.31	+36 9.2	2.353	3.309	4.9	19.7
12 17	4 2.39	+18 58.4	1.414	2.352	9.4	19.2	12 17	4 1.90	+35 58.9	2.401	3.321	7.1	19.8
12 27	3 55.69	+19 16.4	1.474	2.351	13.7	19.5	12 27	3 54.30	+35 39.8	2.476	3.333	9.6	20.0
1 6	3 52.02	+19 40.5	1.555	2.351	17.4	19.7	1 6	3 49.07	+35 16.6	2.575	3.345	12.0	20.2
369425	2009 WX ₂₀₈		11 28.8 350°55	0°9/29.2	17		155525	1999 TR ₆₁		11 28.8 359°36	1°3/29.3	18	
10 28	4 43.36	+24 16.7	2.014	2.864	12.3	21.4	10 28	4 44.07	+25 36.3	1.829	2.680	13.3	19.8
11 7	4 37.79	+24 17.7	1.941	2.861	8.9	21.2	11 7	4 38.47	+25 34.1	1.759	2.679	9.7	19.6
11 17	4 30.18	+24 12.6	1.893	2.859	5.1	21.0	11 17	4 30.63	+25 23.8	1.713	2.678	5.6	19.4
11 27	4 21.35	+24 1.4	1.872	2.857	1.3	20.7	11 27	4 21.45	+25 5.6	1.693	2.678	1.7	19.1
12 7	4 12.35	+23 45.6	1.880	2.856	3.4	20.9	12 7	4 12.12	+24 41.2	1.703	2.678	3.7	19.2
12 17	4 4.24	+23 27.6	1.917	2.855	7.3	21.1	12 17	4 3.81	+24 13.8	1.740	2.679	7.8	19.5
12 27	3 57.95	+23 10.8	1.981	2.854	10.9	21.3	12 27	3 57.52	+23 47.6	1.803	2.680	11.6	19.7
1 6	3 54.05	+22 58.2	2.067	2.853	14.0	21.5	1 6	3 53.85	+23 26.2	1.888	2.681	14.9	20.0
317183	2001 XA ₂₃₅		11 28.8 38°17	1°9/29.4	18		75097	1999 VO ₃₇		11 28.8 2°56	0°1/28.8	18	
10 28	4 48.02	+25 26.6	1.203	2.071	17.6	19.9	10 28	4 49.28	+18 36.6	1.595	2.450	14.7	19.0
11 7	4 41.92	+25 40.3	1.158	2.086	12.8	19.7	11 7	4 42.52	+19 22.0	1.526	2.450	10.6	18.7
11 17	4 32.70	+25 43.9	1.134	2.102	7.5	19.4	11 17	4 33.04	+20 8.3	1.481	2.450	6.0	18.5
11 27	4 21.74	+25 36.5	1.134	2.119	2.3	19.2	11 27	4 21.86	+20 53.7	1.464	2.450	0.9	18.1
12 7	4 10.84	+25 20.1	1.160	2.137	4.8	19.4	12 7	4 10.33	+21 36.8	1.475	2.451	4.2	18.4
12 17	4 1.68	+24 59.0	1.212	2.155	10.0	19.7	12 17	3 59.90	+22 17.2	1.515	2.451	9.0	18.7
12 27	3 55.53	+24 39.1	1.286	2.174	14.5	20.1	12 27	3 51.81	+22 56.3	1.580	2.452	13.2	18.9
1 6	3 52.94	+24 24.8	1.381	2.193	18.3	20.4	1 6	3 46.80	+23 35.6	1.666	2.454	16.7	19.2
14278	Perrenot		11 28.8 313°21	1°9/28.3	18		167736	2004 XB ₂₂		11 28.8 20°65	0°0/28.7	18	
10 28	4 45.12	+18 33.7	1.278	2.152	16.4	18.5	10 28	4 48.76	+19 50.1	1.044	1.923	18.8	19.4
11 7	4 40.09	+18 12.1	1.199	2.132	12.0	18.2	11 7	4 42.95	+20 19.8	0.992	1.927	13.6	19.1
11 17	4 31.93	+17 47.1	1.142	2.113	6.9	17.8	11 17	4 33.55	+20 47.8	0.960	1.932	7.7	18.8
11 27	4 21.67	+17 21.0	1.110	2.095	2.1	17.5	11 27	4 21.94	+21 12.7	0.952	1.938	1.2	18.4
12 7	4 10.88	+16 57.6	1.103	2.077	5.6	17.7	12 7	4 10.10	+21 34.4	0.968	1.945	5.3	18.7
12 17	4 1.23	+16 40.9	1.121	2.060	11.2	17.9	12 17	4 0.01	+21 54.4	1.008	1.952	11.3	19.1
12 27	3 54.24	+16 35.2	1.162	2.043	16.3	18.2	12 27	3 53.22	+22 15.8	1.070	1.961	16.5	19.4
1 6	3 50.77	+16 42.5	1.221	2.027	20.6	18.4	1 6	3 50.46	+22 41.2	1.150	1.970	20.8	19.7
268219	2005 CK ₄₆		11 28.8 249°36	1°5/29.6	18		484215	2007 DK ₄₈		11 28.8 202°82	4°9/1.5	18	
10 28	4 43.46	+27 4.7	2.515	3.351	10.6	21.0	10 28	4 47.94	+39 38.1	2.834	3.618	10.9	22.3
11 7	4 37.59	+27 4.5	2.431	3.343	7.8	20.8	11 7	4 40.84	+39 58.5	2.748	3.613	8.8	22.2
11 17	4 29.99	+26 57.1	2.373	3.335	4.7	20.6	11 17	4 31.82	+40 5.5	2.688	3.608	6.6	22.0
11 27	4 21.33	+26 42.3	2.343	3.326	1.8	20.4	11 27	4 21.65	+39 56.7	2.655	3.602	5.1	21.9
12 7	4 12.50	+26 21.1	2.344	3.318	3.1	20.5	12 7	4 11.29	+39 32.0	2.652	3.596	5.2	21.9
12 17	4 4.38	+25 55.8	2.374	3.309	6.3	20.7	12 17	4 1.75	+38 53.6	2.678	3.589	6.9	22.0
12 27	3 57.76	+25 29.6	2.433	3.300	9.4	20.8	12 27	3 53.88	+38 5.8	2.733	3.582	9.1	22.2
1 6	3 53.18	+25 5.7	2.515	3.291	12.0	21.0	1 6	3 48.27	+37 13.8	2.812	3.574	11.2	22.3
97115	1999 VG ₉₀		11 28.8 73°62	1°6/29.4	18		333216	2012 HV ₂₃		11 28.8 230°03	6°8/1.7	17	
10 28	4 49.26	+25 32.9	1.620	2.470	14.8	19.7	10 28	4 49.93	+42 44.3	2.478	3.253	12.6	20.9
11 7	4 42.20	+25 45.0	1.570	2.489	10.8	19.5	11 7	4 42.72	+43 33.6	2.396	3.247	10.4	20.7
11 17	4 32.64	+25 48.6	1.543	2.509	6.3	19.3	11 17	4 33.08	+44 7.3	2.337	3.241	8.3	20.6
11 27	4 21.74	+25 43.0	1.544	2.528	2.0	19.1	11 27	4 21.86	+44 21.0	2.304	3.234	6.9	20.5
12 7	4 10.88	+25 29.5	1.572	2.547	4.0	19.3	12 7	4 10.29	+44 13.5	2.300	3.227	7.0	20.5
12 17	4 1.42	+25 11.6	1.629	2.567	8.4	19.6	12 17	3 59.64	+43 46.3	2.324	3.220	8.5	20.6
12 27	3 54.39	+24 53.6	1.711	2.586	12.3	19.9	12 27	3 51.04	+43 4.5	2.373	3.213	10.6	20.7
1 6	3 50.34	+24 39.6	1.815	2.605	15.5	20.1	1 6	3 45.19	+42 14.7	2.446	3.206	12.8	20.8
414972	2011 CP ₈₅		11 28.8 219°87	3°9/26.9	17		135776	2002 RY ₅₆		11 28.8 43°03	2°2/29.7	18	
10 28	4 41.30	+ 9 50.3	2.463	3.310	10.5	21.9	10 28	4 46.56	+27 48.0	1.591	2.443	14.9	19.7
11 7	4 35.88	+ 9 10.7	2.392	3.307	7.8	21.7	11 7	4 40.45	+27 47.3	1.533	2.452	11.0	19.5
11 17	4 28.95	+ 8 34.6	2.348	3.303	5.2	21.6	11 17	4 31.77	+27 35.4	1.497	2.461	6.6	19.2
11 27	4 21.17	+ 8 5.2	2.332	3.300	3.9	21.5	11 27	4 21.65	+27 12.0	1.488	2.470	2.6	19.0
12 7	4 13.29	+ 7 44.9	2.345	3.297	5.3	21.6	12 7	4 11.48	+26 39.2	1.506	2.480	4.2	19.1
12 17	4 6.07	+ 7 35.5	2.388	3.293	7.9	21.7	12 17	4 2.64	+26 1.4	1.551	2.491	8.5	19.4
12 27	4 0.20	+ 7 37.9	2.456	3.289	10.6	21.9	12 27	3 56.21	+25 24.1	1.622	2.501	12.5	19.7
1 6	3 56.15	+ 7 51.8	2.548	3.285	12.9	22.1	1 6	3 52.76	+24 52.3	1.714	2.512	15.9	19.9
267113	2000 CP ₄₂		11 28.8 212°53	8°9/23.4	18		403202	2008 SS ₉₁		11 28.8 20°61	6°6/25.6	18	
10 28	4 41.19	-12 32.2	2.965	3.730	10.9	21.1	10 28	4 40.35	+ 6 57.5	1.801	2.659	13.2	20.1
11 7	4 35.59	-13 28.2	2.906	3.723	9.8	21.0	11 7	4 35.51	+ 5 31.1	1.751	2.666	10.1	19.9
11 17	4 28.72	-14 8.7	2.871	3.716	9.0	20.9	11 17	4 28.84	+ 4 11.9	1.726	2.674	7.5	19.8
11 27	4 21.13	-14 29.8	2.862	3.708	8.9	20.9	11 27	4 21.18	+ 3 6.1	1.728	2.683	6.6	19.7
12 7	4 13.46	-14 29.4	2.878	3.700	9.5	21.0	12 7	4 13.54	+ 2 18.7	1.756	2.692	8.1	19.8
12 17	4 6.34	-14 7.0	2.918	3.692	10.6	21.0	12 17	4 6.85	+ 1 52.3	1.811	2.702	10.8	20.0
12 27	4 0.36	-13 24.3	2.981	3.683	11.9	21.1	12 27	4 1.91	+ 1 47.2	1.889	2.713	13.6	20.2
1 6	3 55.94	-12 24.6	3.064	3.674	13.2	21.2	1 6	3 59.19	+ 2 1.2	1.986	2.724	16.1	20.4
40390	1999 NR ₅₁		11 28.8 46°05	9°9/25.3	18		510005	2009 WJ ₂₄		11 28.8 335°96	0°0/28.8	18	
10 28	4 44.48	+ 2 30.7	1.311</										

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
84893	2003 <i>SM</i> ₉₈		11 28.8 260°43	0°5/29.1	18		72191	2005 <i>QR</i> ₃		11 28.9 133°03	0°9/29.2	18	
10 28	4 43.21	+24 33.0	2.328	3.171	11.1	19.7	10 28	4 51.19	+25 3.5	1.994	2.830	13.0	21.7
11 7	4 37.48	+24 9.9	2.245	3.163	8.1	19.5	11 7	4 43.24	+24 56.7	1.935	2.849	9.4	21.5
11 17	4 29.96	+23 39.9	2.188	3.154	4.6	19.3	11 17	4 33.16	+24 42.2	1.902	2.866	5.4	21.3
11 27	4 21.39	+23 3.9	2.160	3.146	0.9	19.0	11 27	4 21.94	+24 20.1	1.897	2.882	1.4	21.1
12 7	4 12.66	+22 24.1	2.162	3.137	3.1	19.2	12 7	4 10.77	+23 52.2	1.923	2.898	3.5	21.3
12 17	4 4.70	+21 43.7	2.193	3.128	6.7	19.4	12 17	4 0.78	+23 22.1	1.979	2.912	7.4	21.5
12 27	3 58.33	+21 6.4	2.252	3.119	10.0	19.6	12 27	3 52.90	+22 53.8	2.062	2.926	11.0	21.8
1 6	3 54.07	+20 35.3	2.335	3.110	12.9	19.8	1 6	3 47.64	+22 30.7	2.169	2.939	13.9	22.0
49938	1999 <i>XS</i> ₁₈₀		11 28.8 230°99	0°0/28.8	18		495942	2006 <i>RN</i> ₇₀		11 28.9 79°32	1°8/28.3	13 C	
10 28	4 47.65	+20 22.4	2.097	2.941	12.1	18.2	10 28	4 51.50	+18 57.6	1.355	2.216	16.5	21.8
11 7	4 40.90	+20 40.7	2.015	2.933	8.8	18.0	11 7	4 43.83	+18 25.1	1.317	2.243	11.7	21.6
11 17	4 32.00	+20 56.9	1.958	2.925	4.9	17.7	11 17	4 33.55	+17 49.5	1.302	2.271	6.5	21.4
11 27	4 21.74	+21 10.8	1.929	2.916	0.8	17.4	11 27	4 21.99	+17 13.8	1.313	2.298	2.0	21.1
12 7	4 11.17	+21 22.3	1.932	2.906	3.5	17.6	12 7	4 10.74	+16 41.9	1.352	2.325	5.0	21.4
12 17	4 1.40	+21 32.8	1.963	2.897	7.5	17.8	12 17	4 1.20	+16 17.8	1.418	2.351	9.8	21.8
12 27	3 53.40	+21 44.1	2.023	2.887	11.2	18.0	12 27	3 54.38	+16 4.5	1.508	2.377	14.0	22.1
1 6	3 47.85	+21 58.4	2.105	2.876	14.2	18.2	1 6	3 50.74	+16 3.1	1.619	2.402	17.3	22.4
121542	Alindamashiku		11 28.9 337°55	3°7/27.1	18		233859	2008 <i>VR</i> ₁₅		11 28.9 75°50	0°3/29.0	18	
10 28	4 41.96	+13 24.0	1.966	2.823	12.2	19.7	10 28	4 43.47	+22 47.5	2.319	3.164	11.1	20.6
11 7	4 36.69	+12 29.0	1.897	2.820	9.0	19.4	11 7	4 37.60	+22 46.1	2.253	3.172	8.0	20.4
11 17	4 29.55	+11 34.7	1.854	2.817	5.6	19.2	11 17	4 30.01	+22 40.2	2.213	3.180	4.5	20.2
11 27	4 21.34	+10 45.2	1.839	2.814	3.7	19.1	11 27	4 21.46	+22 30.2	2.202	3.188	0.8	20.0
12 7	4 13.03	+10 4.6	1.852	2.812	5.6	19.2	12 7	4 12.84	+22 17.5	2.221	3.196	3.0	20.2
12 17	4 5.58	+9 35.9	1.893	2.809	8.9	19.4	12 17	4 5.03	+22 4.1	2.269	3.204	6.5	20.4
12 27	3 59.82	+9 21.3	1.959	2.807	12.2	19.6	12 27	3 58.80	+21 52.6	2.345	3.212	9.7	20.6
1 6	3 56.28	+9 20.7	2.047	2.805	15.0	19.8	1 6	3 54.66	+21 45.1	2.444	3.220	12.4	20.8
389606	2011 <i>HN</i> ₂₁		11 28.9 208°84	1°8/28.2	18		446439	2014 <i>JT</i> ₄₃		11 28.9 88°20	3°3/27.7	18	
10 28	4 47.67	+17 27.3	1.886	2.737	13.0	21.9	10 28	4 45.18	+13 18.8	1.830	2.685	13.1	21.1
11 7	4 40.97	+17 10.1	1.810	2.732	9.4	21.7	11 7	4 39.05	+12 52.7	1.771	2.693	9.5	20.9
11 17	4 32.03	+16 51.4	1.759	2.727	5.4	21.4	11 17	4 30.89	+12 29.1	1.737	2.701	5.8	20.7
11 27	4 21.75	+16 32.9	1.737	2.721	1.9	21.2	11 27	4 21.60	+12 10.7	1.731	2.709	3.3	20.6
12 7	4 11.25	+16 16.8	1.743	2.714	4.4	21.4	12 7	4 12.26	+12 0.2	1.753	2.717	5.3	20.7
12 17	4 1.70	+16 5.8	1.779	2.707	8.5	21.6	12 17	4 3.94	+11 59.4	1.803	2.725	8.9	21.0
12 27	3 54.09	+16 2.2	1.841	2.700	12.3	21.8	12 27	3 57.53	+12 9.3	1.879	2.733	12.3	21.2
1 6	3 49.07	+16 7.5	1.924	2.692	15.5	22.0	1 6	3 53.55	+12 29.6	1.976	2.741	15.2	21.4
17906	1999 <i>FG</i> ₃₂		11 28.9 56°76	2°9/29.4	18		79262	1995 <i>FU</i> ₁₉		11 28.9 120°52	5°1/26.8	18	
10 28	4 51.76	+25 59.0	1.392	2.245	16.5	17.1	10 28	4 43.94	+8 46.2	1.954	2.804	12.6	20.1
11 7	4 44.48	+26 51.6	1.343	2.263	12.2	16.8	11 7	4 38.04	+7 57.9	1.894	2.809	9.5	20.0
11 17	4 34.17	+27 35.8	1.317	2.281	7.3	16.6	11 17	4 30.29	+7 15.1	1.860	2.814	6.5	19.8
11 27	4 22.09	+28 7.7	1.317	2.299	3.2	16.4	11 27	4 21.50	+6 42.0	1.853	2.819	5.1	19.7
12 7	4 9.95	+28 26.5	1.344	2.317	5.0	16.6	12 7	4 12.67	+6 21.8	1.874	2.823	6.6	19.8
12 17	3 59.39	+28 34.2	1.398	2.336	9.5	16.9	12 17	4 4.75	+6 16.4	1.923	2.828	9.5	20.0
12 27	3 51.72	+28 35.7	1.476	2.354	13.6	17.2	12 27	3 58.56	+6 26.2	1.997	2.832	12.5	20.2
1 6	3 47.55	+28 36.3	1.576	2.373	17.1	17.5	1 6	3 54.62	+6 49.9	2.093	2.837	15.2	20.4
514140	2015 <i>HM</i> ₁₇₆		11 28.9 163°27	2°6/29.8	18		265188	2004 <i>AS</i> ₁₀		11 28.9 235°86	4°5/27.7	18	
10 28	4 51.00	+29 5.9	1.977	2.807	13.3	22.4	10 28	4 48.40	+10 39.5	1.622	2.476	14.6	21.0
11 7	4 43.36	+29 16.9	1.907	2.814	9.9	22.2	11 7	4 41.78	+10 20.4	1.548	2.468	10.9	20.8
11 17	4 33.36	+29 17.3	1.861	2.819	6.1	22.0	11 17	4 32.64	+10 6.9	1.498	2.459	7.0	20.5
11 27	4 21.97	+29 5.7	1.844	2.824	2.9	21.8	11 27	4 21.91	+10 2.2	1.475	2.450	4.5	20.4
12 7	4 10.46	+28 43.1	1.857	2.828	4.1	21.9	12 7	4 10.87	+10 8.7	1.480	2.441	6.5	20.5
12 17	4 0.07	+28 12.7	1.899	2.832	7.7	22.1	12 17	4 0.85	+10 27.9	1.512	2.432	10.5	20.7
12 27	3 51.86	+27 39.4	1.968	2.834	11.3	22.3	12 27	3 53.00	+11 0.0	1.569	2.422	14.4	20.9
1 6	3 46.42	+27 8.2	2.060	2.836	14.3	22.5	1 6	3 48.03	+11 43.8	1.646	2.411	17.8	21.1
12861	Wacker		11 28.9 55°03	0°6/28.7	18		333762	2011 <i>CM</i> ₃₁		11 28.9 153°65	0°3/28.8	18	
10 28	4 46.59	+20 54.5	1.533	2.394	14.9	18.4	10 28	4 49.24	+22 9.5	1.811	2.658	13.6	21.6
11 7	4 40.41	+20 39.8	1.478	2.405	10.7	18.1	11 7	4 42.07	+21 47.7	1.746	2.666	9.8	21.4
11 17	4 31.75	+20 20.5	1.447	2.416	5.9	17.9	11 17	4 32.62	+21 19.8	1.705	2.673	5.5	21.1
11 27	4 21.72	+19 58.0	1.442	2.428	1.0	17.6	11 27	4 21.88	+20 47.1	1.693	2.679	0.9	20.8
12 7	4 11.68	+19 35.0	1.465	2.440	4.2	17.8	12 7	4 11.09	+20 12.3	1.710	2.685	3.8	21.1
12 17	4 2.94	+19 15.1	1.515	2.452	8.9	18.2	12 17	4 1.47	+19 39.3	1.756	2.690	8.2	21.3
12 27	3 56.56	+19 1.7	1.590	2.464	13.0	18.4	12 27	3 53.99	+19 12.0	1.829	2.694	12.1	21.6
1 6	3 53.09	+18 56.9	1.685	2.477	16.4	18.7	1 6	3 49.24	+18 53.3	1.924	2.698	15.3	21.8
102538	1999 <i>UZ</i> ₉		11 28.9 100°21	14°8/5.7	18		269431	2009 <i>SP</i> ₁₄₈		11 28.9 303°69	2°9/27.2	17	
10 28	5 10.87	+57 23.5	1.669	2.373	20.3	19.4	10 28	4 41.83	+15 49.3	2.130	2.985	11.5	20.1
11 7	5 0.37	+59 18.4	1.624	2.392	18.3	19.3	11 7	4 36.54	+14 44.6	2.054	2.977	8.4	19.9
11 17	4 44.02	+60 39.9	1.597	2.410	16.5	19.2	11 17	4 29.47	+13 37.8	2.003	2.969	5.0	19.7
11 27	4 23.74	+61 15.7	1.590	2.429	15.2	19.2	11 27	4 21.38	+12 32.7	1.982	2.961	2.9	19.5
12 7	4 2.95	+61 0.6	1.604	2.446	14.8	19.2	12 7	4 13.18	+11 33.8	1.990	2.953	4.9	19.7
12 17	3 45.21	+59 59.9	1.640	2.463	15.4	19.3	12 17	4 5.76	+10 45.0	2.026	2.945	8.3	19.9
12 27	3 32.92	+58 27.2	1.697	2.480	16.7	19.4	12 27	3 59.93	+10 9.3	2.089	2.937	11.5	20.0
1 6	3 26.77	+56 38.6	1.772	2.496	18.2	19.6	1 6	3 56.20	+9 47.8	2.174	2.930	14.3	20.2
515625	2014 <i>KM</i> ₁₀₅		11 28.9 158°39	0°0/28.7	18		156912	2003 <i>FS</i> ₂₅		11 28.9 155°34	0°4/29.0	18 R	</

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
84721	2002 <i>WU</i> ₂		11 28.9 323°98	2.4/28.1	18		140388	2001 <i>TZ</i> ₅₂		11 28.9 85°71	1.7/28.2	18	
10 28	4 45.29	+15 5.2	1.819	2.675	13.1	19.9	10 28	4 45.00	+17 59.5	1.904	2.758	12.7	20.3
11 7	4 39.29	+14 56.7	1.750	2.673	9.5	19.7	11 7	4 38.87	+17 30.8	1.845	2.769	9.1	20.1
11 17	4 31.13	+14 49.6	1.705	2.671	5.6	19.4	11 17	4 30.79	+17 0.2	1.812	2.780	5.2	19.8
11 27	4 21.67	+14 45.8	1.688	2.670	2.5	19.2	11 27	4 21.63	+16 30.0	1.807	2.791	1.8	19.6
12 7	4 12.03	+14 46.9	1.699	2.668	4.7	19.4	12 7	4 12.46	+16 3.0	1.830	2.801	4.2	19.8
12 17	4 3.33	+14 54.6	1.738	2.667	8.7	19.6	12 17	4 4.32	+15 42.1	1.883	2.812	8.0	20.1
12 27	3 56.55	+15 10.2	1.803	2.666	12.4	19.8	12 27	3 58.05	+15 29.6	1.961	2.823	11.6	20.3
1 6	3 52.30	+15 34.0	1.890	2.664	15.5	20.1	1 6	3 54.18	+15 26.8	2.061	2.833	14.5	20.5
230258	2001 <i>WB</i> ₈		11 28.9 341°39	3.9/27.7	18		397994	2009 <i>BO</i> ₁₃₃		11 28.9 245°96	0.1/28.9	18	
10 28	4 44.14	+14 41.5	1.296	2.171	16.2	20.0	10 28	4 46.27	+22 43.2	1.890	2.740	13.0	21.9
11 7	4 39.13	+14 3.7	1.231	2.163	11.8	19.7	11 7	4 40.08	+22 30.0	1.811	2.732	9.4	21.7
11 17	4 31.30	+13 26.8	1.188	2.157	7.1	19.5	11 17	4 31.62	+22 10.8	1.756	2.724	5.3	21.4
11 27	4 21.72	+12 55.2	1.170	2.151	3.9	19.3	11 27	4 21.78	+21 46.2	1.730	2.716	0.9	21.1
12 7	4 11.87	+12 33.3	1.177	2.145	6.5	19.4	12 7	4 11.71	+21 18.5	1.732	2.707	3.7	21.3
12 17	4 3.28	+12 24.8	1.209	2.141	11.3	19.7	12 17	4 2.58	+20 50.8	1.763	2.699	8.0	21.6
12 27	3 57.19	+12 31.8	1.264	2.137	15.8	19.9	12 27	3 55.41	+20 27.0	1.820	2.690	11.9	21.8
1 6	3 54.33	+12 53.8	1.337	2.134	19.6	20.2	1 6	3 50.85	+20 10.3	1.900	2.681	15.2	22.0
474268	2001 <i>TK</i> ₁₅₇		11 28.9 357°91	3.7/27.7	16		256879	2008 <i>DU</i> ₃₂		11 28.9 221°55	0.9/29.2	18	
10 28	4 40.53	+16 59.0	1.026	1.918	18.0	20.4	10 28	4 45.88	+24 15.7	2.090	2.934	12.2	21.5
11 7	4 36.96	+16 5.5	0.971	1.913	13.1	20.1	11 7	4 39.63	+24 19.4	2.013	2.931	8.9	21.3
11 17	4 30.22	+15 9.3	0.936	1.909	7.7	19.8	11 17	4 31.31	+24 17.1	1.962	2.927	5.1	21.0
11 27	4 21.55	+14 16.4	0.923	1.906	3.7	19.6	11 27	4 21.74	+24 8.7	1.938	2.924	1.3	20.7
12 7	4 12.67	+13 33.7	0.934	1.906	6.9	19.8	12 7	4 11.97	+23 55.2	1.945	2.920	3.4	20.9
12 17	4 5.31	+13 6.9	0.967	1.907	12.3	20.1	12 17	4 3.07	+23 39.0	1.980	2.916	7.3	21.1
12 27	4 0.81	+12 59.2	1.021	1.910	17.3	20.4	12 27	3 55.99	+23 23.5	2.043	2.912	10.8	21.4
1 6	3 59.87	+13 10.3	1.092	1.915	21.5	20.6	1 6	3 51.31	+23 11.6	2.129	2.908	13.8	21.6
103227	1999 <i>YR</i> ₁₀		11 28.9 77°88	1.6/28.3	18		331210	2011 <i>BQ</i> ₃₆		11 28.9 326°82	5.3/26.9	17	
10 28	4 47.06	+18 39.8	1.672	2.529	14.0	20.1	10 28	4 41.99	+7 46.4	1.951	2.804	12.5	20.6
11 7	4 40.48	+18 14.4	1.622	2.546	10.0	19.9	11 7	4 36.79	+7 9.6	1.881	2.796	9.5	20.4
11 17	4 31.70	+17 46.5	1.596	2.564	5.6	19.7	11 17	4 29.71	+6 39.2	1.835	2.788	6.7	20.2
11 27	4 21.75	+17 18.4	1.597	2.582	1.7	19.5	11 27	4 21.49	+6 19.2	1.816	2.780	5.3	20.1
12 7	4 11.89	+16 53.1	1.627	2.600	4.4	19.7	12 7	4 13.10	+6 12.5	1.824	2.773	6.7	20.2
12 17	4 3.27	+16 33.7	1.685	2.617	8.6	20.0	12 17	4 5.50	+6 20.7	1.860	2.767	9.7	20.4
12 27	3 56.82	+16 22.8	1.768	2.634	12.4	20.3	12 27	3 59.56	+6 43.9	1.921	2.760	12.8	20.6
1 6	3 53.05	+16 21.7	1.873	2.652	15.5	20.5	1 6	3 55.85	+7 20.6	2.003	2.754	15.5	20.8
482887	2014 <i>FU</i> ₁₇		11 28.9 46°30	10.8/2.8	18		449164	2013 <i>AE</i> ₁₅₆		11 28.9 170°67	3.9/27.1	18	
10 28	4 55.28	+44 52.9	1.417	2.214	19.3	19.6	10 28	4 44.67	+12 13.0	2.012	2.863	12.3	21.6
11 7	4 47.84	+46 14.4	1.372	2.232	16.2	19.4	11 7	4 38.58	+11 22.1	1.946	2.865	9.0	21.4
11 17	4 36.39	+47 8.6	1.346	2.250	13.2	19.3	11 17	4 30.64	+10 33.1	1.906	2.867	5.8	21.2
11 27	4 22.53	+47 27.2	1.342	2.268	11.2	19.2	11 27	4 21.63	+9 50.0	1.894	2.868	3.9	21.1
12 7	4 8.56	+47 8.3	1.362	2.287	11.0	19.3	12 7	4 12.56	+9 16.4	1.912	2.869	5.7	21.3
12 17	3 56.72	+46 17.4	1.406	2.307	12.6	19.4	12 17	4 4.37	+8 55.0	1.957	2.870	8.9	21.5
12 27	3 48.65	+45 5.8	1.473	2.327	15.1	19.6	12 27	3 57.92	+8 47.3	2.029	2.870	12.1	21.7
1 6	3 44.99	+43 46.0	1.559	2.347	17.7	19.8	1 6	3 53.71	+8 53.1	2.122	2.871	14.8	21.9
477470	2009 <i>YH</i> ₇		11 28.9 317°12	1.5/28.5	18		216212	2006 <i>UC</i> ₇₃		11 28.9 341°94	3.7/30.6	18	
10 28	4 45.55	+18 26.7	1.321	2.192	16.1	21.3	10 28	4 43.83	+33 56.3	2.562	3.379	11.0	20.4
11 7	4 40.39	+18 21.0	1.243	2.175	11.8	21.0	11 7	4 38.01	+34 16.5	2.484	3.377	8.5	20.2
11 17	4 32.17	+18 13.4	1.187	2.158	6.7	20.6	11 17	4 30.35	+34 26.1	2.431	3.375	5.9	20.0
11 27	4 21.89	+18 5.6	1.156	2.141	1.8	20.3	11 27	4 21.59	+34 23.5	2.406	3.373	3.9	19.9
12 7	4 11.09	+17 59.6	1.151	2.126	5.2	20.5	12 7	4 12.66	+34 8.8	2.410	3.371	4.3	19.9
12 17	4 1.41	+17 58.6	1.171	2.110	10.7	20.7	12 17	4 4.49	+33 44.1	2.443	3.370	6.6	20.1
12 27	3 54.30	+18 5.5	1.214	2.096	15.7	21.0	12 27	3 57.92	+33 13.1	2.503	3.368	9.2	20.2
1 6	3 50.65	+18 22.3	1.276	2.082	19.9	21.2	1 6	3 53.50	+32 40.1	2.588	3.367	11.7	20.4
250509	2004 <i>HX</i> ₂₈		11 28.9 222°15	1.4/29.4	18		168575	1999 <i>XL</i> ₁₄₂		11 28.9 107°05	11.3/4.8	18	
10 28	4 45.95	+26 6.7	1.999	2.843	12.7	20.5	10 28	5 1.46	+48 34.5	1.128	1.923	23.3	19.2
11 7	4 39.75	+26 5.3	1.925	2.841	9.3	20.3	11 7	4 52.83	+48 23.7	1.067	1.929	19.6	19.0
11 17	4 31.38	+25 55.9	1.875	2.839	5.4	20.1	11 17	4 39.23	+47 29.9	1.023	1.934	15.6	18.7
11 27	4 21.73	+25 38.2	1.852	2.837	1.8	19.8	11 27	4 22.99	+45 44.5	0.999	1.940	12.3	18.6
12 7	4 11.91	+25 13.8	1.859	2.834	3.5	19.9	12 7	4 7.23	+43 10.6	0.999	1.945	11.3	18.5
12 17	4 3.03	+24 45.7	1.895	2.832	7.5	20.2	12 17	3 54.67	+40 3.9	1.024	1.950	13.5	18.7
12 27	3 56.08	+24 18.0	1.958	2.830	11.1	20.4	12 27	3 46.90	+36 47.3	1.073	1.955	17.3	18.9
1 6	3 51.65	+23 54.3	2.043	2.827	14.2	20.6	1 6	3 44.23	+33 41.7	1.143	1.960	21.1	19.2
364334	2006 <i>UY</i> ₁₃₉		11 28.9 301°45	1.8/29.7	17		239076	2006 <i>GF</i> ₂₈		11 28.9 333°22	2.0/28.3	18	
10 28	4 45.44	+27 51.0	1.868	2.712	13.4	21.6	10 28	4 45.20	+17 33.4	1.467	2.334	15.1	19.8
11 7	4 39.53	+27 39.0	1.791	2.706	9.9	21.4	11 7	4 39.73	+17 17.8	1.398	2.327	10.9	19.5
11 17	4 31.32	+27 16.4	1.738	2.701	5.9	21.1	11 17	4 31.60	+17 0.9	1.351	2.321	6.3	19.3
11 27	4 21.72	+26 43.2	1.712	2.695	2.2	20.9	11 27	4 21.82	+16 44.8	1.331	2.315	2.1	19.0
12 7	4 11.95	+26 1.5	1.715	2.690	3.8	21.0	12 7	4 11.77	+16 32.3	1.337	2.310	5.0	19.2
12 17	4 3.19	+25 15.3	1.746	2.685	7.9	21.2	12 17	4 2.85	+16 26.2	1.369	2.305	9.9	19.4
12 27	3 56.49	+24 30.0	1.804	2.679	11.7	21.4	12 27	3 56.26	+16 29.3	1.426	2.300	14.3	19.7
1 6	3 52.47	+23 50.2	1.884	2.674	15.0	21.6	1 6	3 52.72	+16 42.6	1.502	2.296	18.0	19.9
493055	2014 <i>SJ</i> ₂₈₁		11 28.9 27°64	2.4/29.6	17		460895	2014 <i>WC</i> ₁₇₀	</				

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
455462	2003 SZ ₄₂₉		11 28.9 40°45'	3°2/27.4	17		232	Russia		11 28.9 235°83'	3°2/27.6	18	
10 28	4 41.99	+14 6.0	2.049	2.905	11.9	21.6	10 28	4 45.78	+13 40.1	2.035	2.885	12.2	14.8
11 7	4 36.63	+13 18.5	1.989	2.911	8.6	21.4	11 7	4 39.55	+13 7.8	1.954	2.873	9.0	14.6
11 17	4 29.52	+12 31.9	1.954	2.918	5.3	21.2	11 17	4 31.30	+12 36.4	1.898	2.861	5.5	14.4
11 27	4 21.46	+11 49.6	1.947	2.924	3.2	21.1	11 27	4 21.81	+12 8.9	1.871	2.849	3.2	14.2
12 7	4 13.37	+11 15.0	1.969	2.931	5.0	21.2	12 7	4 12.08	+11 48.0	1.873	2.836	5.1	14.3
12 17	4 6.15	+10 50.9	2.019	2.938	8.3	21.4	12 17	4 3.14	+11 36.4	1.904	2.823	8.7	14.5
12 27	4 0.58	+10 38.8	2.095	2.946	11.4	21.7	12 27	3 55.92	+11 35.7	1.961	2.809	12.2	14.7
1 6	3 57.12	+10 39.1	2.193	2.953	14.1	21.9	1 6	3 51.03	+11 46.5	2.039	2.795	15.1	14.9
224834	2006 WN ₁₇₂		11 28.9 121°92'	0°2/28.8	18		423789	2006 GJ ₃₀		11 28.9 249°09'	2°2/27.8	18	
10 28	4 50.55	+22 9.8	1.731	2.579	14.1	21.4	10 28	4 42.23	+15 18.3	2.459	3.308	10.4	21.9
11 7	4 42.99	+21 49.7	1.676	2.596	10.1	21.1	11 7	4 36.71	+14 51.3	2.379	3.299	7.5	21.7
11 17	4 33.13	+21 23.5	1.645	2.612	5.6	20.9	11 17	4 29.59	+14 24.3	2.325	3.290	4.5	21.5
11 27	4 22.04	+20 52.6	1.642	2.628	0.9	20.6	11 27	4 21.53	+13 59.3	2.300	3.281	2.2	21.3
12 7	4 11.01	+20 19.7	1.669	2.643	3.9	20.9	12 7	4 13.31	+13 38.5	2.305	3.272	4.0	21.5
12 17	4 1.29	+19 48.7	1.724	2.658	8.3	21.2	12 17	4 5.74	+13 24.0	2.340	3.262	7.1	21.6
12 27	3 53.85	+19 23.6	1.806	2.672	12.2	21.4	12 27	3 59.55	+13 17.6	2.402	3.253	10.1	21.8
1 6	3 49.22	+19 7.1	1.910	2.685	15.3	21.7	1 6	3 55.25	+13 19.9	2.487	3.243	12.7	22.0
346527	2008 UV ₁₉₆		11 28.9 308°84'	1°7/28.2	18		12817	Federica		11 28.9 157°88'	1°0/28.4	18	
10 28	4 45.18	+19 55.2	1.486	2.352	15.0	21.0	10 28	4 43.07	+19 36.5	2.248	3.098	11.2	18.5
11 7	4 39.71	+19 12.5	1.412	2.341	10.9	20.7	11 7	4 37.40	+19 11.4	2.177	3.098	8.0	18.3
11 17	4 31.59	+18 23.7	1.361	2.331	6.2	20.4	11 17	4 30.00	+18 43.1	2.131	3.099	4.5	18.1
11 27	4 21.83	+17 32.1	1.336	2.321	1.8	20.1	11 27	4 21.60	+18 13.5	2.114	3.099	1.2	17.9
12 7	4 11.80	+16 42.2	1.338	2.311	5.0	20.3	12 7	4 13.11	+17 44.9	2.127	3.100	3.5	18.0
12 17	4 2.91	+15 59.4	1.367	2.302	9.9	20.5	12 17	4 5.42	+17 19.8	2.169	3.100	7.1	18.3
12 27	3 56.36	+15 28.3	1.420	2.293	14.4	20.8	12 27	3 59.30	+17 1.0	2.239	3.101	10.3	18.5
1 6	3 52.84	+15 11.4	1.493	2.284	18.2	21.0	1 6	3 55.26	+16 50.0	2.331	3.101	13.1	18.7
90094	2002 XV ₅		11 28.9 261°86'	0°3/28.8	18		519829	2013 JE ₆₇		11 28.9 133°66'	3°4/27.1	18	
10 28	4 49.24	+19 56.6	1.526	2.384	15.1	19.3	10 28	4 42.78	+12 25.1	2.424	3.271	10.6	21.7
11 7	4 42.69	+20 11.9	1.453	2.378	11.0	19.1	11 7	4 36.96	+11 32.4	2.363	3.280	7.8	21.5
11 17	4 33.31	+20 25.1	1.403	2.372	6.2	18.8	11 17	4 29.65	+10 41.3	2.328	3.288	4.9	21.3
11 27	4 22.12	+20 35.8	1.380	2.366	1.0	18.4	11 27	4 21.54	+9 55.3	2.323	3.296	3.4	21.3
12 7	4 10.56	+20 44.6	1.385	2.360	4.4	18.7	12 7	4 13.43	+9 17.2	2.348	3.304	4.9	21.4
12 17	4 0.14	+20 53.1	1.417	2.354	9.4	18.9	12 17	4 6.07	+8 49.6	2.402	3.311	7.6	21.6
12 27	3 52.15	+21 4.1	1.474	2.348	13.9	19.2	12 27	4 0.14	+8 33.9	2.483	3.318	10.4	21.7
1 6	3 47.36	+21 20.1	1.552	2.342	17.7	19.4	1 6	3 56.06	+8 30.2	2.586	3.325	12.7	21.9
450417	2005 TM ₁₅₄		11 28.9 247°31'	1°0/29.3	17		482934	2014 JH ₂₉		11 28.9 268°69'	2°5/28.4	18	
10 28	4 45.00	+25 37.4	2.030	2.874	12.4	21.8	10 28	4 48.81	+13 29.6	1.830	2.679	13.4	21.0
11 7	4 39.01	+25 21.6	1.955	2.873	9.1	21.6	11 7	4 42.08	+13 47.1	1.745	2.664	9.8	20.8
11 17	4 30.97	+24 57.5	1.906	2.871	5.2	21.3	11 17	4 32.91	+14 9.2	1.683	2.648	5.9	20.5
11 27	4 21.72	+24 25.9	1.884	2.869	1.4	21.1	11 27	4 22.11	+14 36.5	1.650	2.632	2.6	20.3
12 7	4 12.34	+23 48.9	1.892	2.867	3.4	21.2	12 7	4 10.87	+15 9.3	1.646	2.616	4.8	20.4
12 17	4 3.91	+23 10.1	1.929	2.866	7.3	21.4	12 17	4 0.41	+15 47.6	1.671	2.599	9.0	20.6
12 27	3 57.33	+22 33.6	1.992	2.864	10.9	21.7	12 27	3 51.90	+16 31.6	1.723	2.583	13.0	20.8
1 6	3 53.18	+22 3.2	2.079	2.862	14.0	21.9	1 6	3 46.09	+17 21.2	1.797	2.566	16.4	21.0
277436	2005 UB ₄₂₇		11 28.9 248°45'	0°2/28.9	18		44233	1998 QM ₂₈		11 28.9 89°91'	0°0/28.7	18	
10 28	4 48.42	+22 31.4	1.683	2.535	14.2	21.2	10 28	4 46.72	+22 20.1	1.787	2.639	13.5	18.7
11 7	4 41.94	+22 28.1	1.603	2.525	10.4	20.9	11 7	4 40.35	+22 9.4	1.725	2.647	9.7	18.5
11 17	4 32.83	+22 18.9	1.546	2.514	5.9	20.6	11 17	4 31.76	+21 53.3	1.688	2.656	5.5	18.3
11 27	4 22.05	+22 3.9	1.517	2.503	1.0	20.3	11 27	4 21.90	+21 32.5	1.678	2.664	0.9	18.0
12 7	4 10.91	+21 44.9	1.516	2.492	4.0	20.5	12 7	4 11.98	+21 9.3	1.697	2.672	3.7	18.2
12 17	4 0.81	+21 24.9	1.543	2.480	8.8	20.7	12 17	4 3.17	+20 46.8	1.744	2.681	8.0	18.5
12 27	3 52.95	+21 8.2	1.596	2.468	13.1	20.9	12 27	3 56.46	+20 28.6	1.818	2.689	11.8	18.8
1 6	3 48.06	+20 58.2	1.670	2.456	16.8	21.2	1 6	3 52.40	+20 17.2	1.913	2.697	15.0	19.0
187229	2005 SB ₁₄₅		11 28.9 78°13'	0°0/28.7	18		15792	1993 TS ₁₅		11 28.9 38°27'	1°8/28.4	18	
10 28	4 45.47	+21 54.7	1.956	2.807	12.6	21.4	10 28	4 45.45	+18 25.1	1.419	2.287	15.4	18.6
11 7	4 39.32	+21 51.6	1.892	2.813	9.1	21.2	11 7	4 39.68	+18 3.4	1.373	2.303	11.0	18.4
11 17	4 31.12	+21 44.0	1.853	2.820	5.1	21.0	11 17	4 31.43	+17 39.7	1.349	2.319	6.2	18.2
11 27	4 21.76	+21 32.5	1.841	2.827	0.8	20.7	11 27	4 21.84	+17 16.5	1.352	2.337	1.9	17.9
12 7	4 12.30	+21 18.7	1.859	2.834	3.5	20.9	12 7	4 12.33	+16 56.8	1.381	2.354	4.8	18.2
12 17	4 3.82	+21 5.0	1.905	2.841	7.5	21.2	12 17	4 4.19	+16 43.8	1.437	2.373	9.4	18.5
12 27	3 57.24	+20 54.5	1.979	2.848	11.1	21.4	12 27	3 58.46	+16 40.1	1.516	2.392	13.5	18.8
1 6	3 53.09	+20 49.3	2.074	2.855	14.1	21.7	1 6	3 55.64	+16 46.4	1.616	2.411	16.9	19.1
52247	1981 EP ₁₀		11 28.9 179°39'	3°1/30.1	18		216775	2006 HX ₃₈		11 28.9 272°53'	0°5/28.8	18	
10 28	4 49.99	+30 39.5	1.801	2.635	14.3	19.8	10 28	4 44.16	+19 32.9	2.331	3.178	11.0	20.0
11 7	4 42.92	+30 41.5	1.729	2.636	10.7	19.6	11 7	4 38.24	+19 42.4	2.253	3.173	7.9	19.8
11 17	4 33.28	+30 30.4	1.680	2.636	6.8	19.3	11 17	4 30.53	+19 50.4	2.201	3.168	4.4	19.6
11 27	4 22.12	+30 4.9	1.658	2.637	3.5	19.1	11 27	4 21.72	+19 57.0	2.177	3.163	0.8	19.3
12 7	4 10.79	+29 26.4	1.665	2.637	4.5	19.2	12 7	4 12.71	+20 2.9	2.184	3.159	3.2	19.5
12 17	4 0.67	+28 39.2	1.701	2.636	8.3	19.4	12 17	4 4.41	+20 9.5	2.221	3.154	6.8	19.7
12 27	3 52.90	+27 49.5	1.763	2.635	12.1	19.7	12 27	3 57.64	+20 18.2	2.285	3.149	10.0	19.9
1 6	3 48.11	+27 3.3	1.847	2.634	15.4	19.9	1 6	3 52.95	+20 30.6	2.373	3.144	12.8	20.1
311879	2006 WS ₁₅₀		11 28.9 101°25'	1°7/28.4	18		354377	2003 SL ₂₉		11 28.9 259°13'	13°2/22.0	17	
10 28	4 46.08	+16 7.1	1.995	2.846									

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
521579	2015 <i>PK</i> ₂₁₂		11 28.9 211 ^o 29	1 ^o 0/28.4 18			487551	2014 <i>VA</i> ₁₇		11 28.9 138 ^o 72	0 ^o 9/28.6 18		
10 28	4 46.00	+22 39.5	1.749	2.603	13.7	20.7	10 28	4 43.84	+18 45.8	2.538	3.382	10.3	21.3
11 7	4 39.86	+21 33.7	1.679	2.603	9.8	20.4	11 7	4 37.80	+18 41.6	2.470	3.389	7.4	21.1
11 17	4 31.50	+20 18.9	1.634	2.603	5.5	20.2	11 17	4 30.21	+18 35.9	2.429	3.395	4.1	21.0
11 27	4 21.88	+18 58.7	1.617	2.603	1.2	19.9	11 27	4 21.73	+18 29.5	2.416	3.402	1.0	20.7
12 7	4 12.22	+17 38.7	1.629	2.603	4.2	20.1	12 7	4 13.17	+18 23.6	2.435	3.408	3.1	20.9
12 17	4 3.69	+16 25.1	1.670	2.603	8.7	20.4	12 17	4 5.32	+18 19.7	2.483	3.413	6.3	21.1
12 27	3 57.27	+15 23.3	1.737	2.603	12.6	20.6	12 27	3 58.90	+18 19.6	2.560	3.419	9.3	21.3
1 6	3 53.49	+14 36.4	1.826	2.602	15.9	20.8	1 6	3 54.36	+18 24.3	2.660	3.424	11.8	21.5
148937	2001 <i>XK</i> ₁₁₄		11 28.9	1 ^o 53 2 ^o 2/29.5 18			73388	2002 <i>LN</i> ₁₂		11 28.9 186 ^o 42	2 ^o 6/27.9 18		
10 28	4 45.93	+26 18.5	1.642	2.495	14.5	19.3	10 28	4 46.63	+14 1.8	2.266	3.109	11.4	20.7
11 7	4 40.20	+26 44.4	1.574	2.494	10.7	19.0	11 7	4 39.95	+13 44.9	2.193	3.109	8.3	20.5
11 17	4 31.88	+27 2.3	1.529	2.494	6.4	18.8	11 17	4 31.47	+13 29.4	2.145	3.108	5.0	20.3
11 27	4 21.96	+27 10.7	1.511	2.494	2.6	18.6	11 27	4 21.94	+13 17.1	2.127	3.107	2.6	20.2
12 7	4 11.78	+27 9.8	1.520	2.495	4.3	18.7	12 7	4 12.27	+13 9.9	2.140	3.105	4.4	20.3
12 17	4 2.72	+27 1.8	1.556	2.496	8.5	18.9	12 17	4 3.38	+13 9.3	2.182	3.102	7.7	20.5
12 27	3 55.94	+26 51.0	1.618	2.498	12.5	19.2	12 27	3 56.09	+13 16.7	2.251	3.099	10.8	20.7
1 6	3 52.14	+26 41.7	1.701	2.500	16.0	19.4	1 6	3 50.92	+13 32.4	2.344	3.095	13.5	20.9
310563	2001 <i>RO</i> ₅₆		11 28.9 41 ^o 49	7 ^o 7/ 1.6 18			132542	2002 <i>JK</i> ₇₃		11 28.9 210 ^o 65	3 ^o 4/27.5 18		
10 28	4 51.01	+39 33.9	1.611	2.425	16.6	20.3	10 28	4 45.79	+12 43.3	2.119	2.966	11.9	20.1
11 7	4 44.19	+40 32.3	1.558	2.438	13.4	20.2	11 7	4 39.47	+12 7.4	2.043	2.960	8.8	19.9
11 17	4 34.20	+41 10.5	1.525	2.452	10.2	20.0	11 17	4 31.25	+11 33.2	1.993	2.954	5.5	19.7
11 27	4 22.33	+41 23.0	1.518	2.467	8.0	19.9	11 27	4 21.91	+11 3.6	1.971	2.947	3.4	19.6
12 7	4 10.32	+41 9.0	1.536	2.482	8.1	20.0	12 7	4 12.40	+10 41.6	1.979	2.940	5.2	19.7
12 17	3 59.89	+40 32.5	1.580	2.497	10.3	20.1	12 17	4 3.69	+10 29.5	2.016	2.932	8.5	19.8
12 27	3 52.39	+39 41.5	1.648	2.513	13.2	20.4	12 27	3 56.63	+10 28.8	2.080	2.924	11.8	20.0
1 6	3 48.47	+38 45.2	1.738	2.529	16.0	20.6	1 6	3 51.79	+10 39.6	2.165	2.915	14.6	20.2
242578	2005 <i>GJ</i> ₅₀		11 28.9 157 ^o 03	3 ^o 4/27.7 18			113484	2002 <i>TQ</i> ₁		11 28.9 86 ^o 65	0 ^o 9/28.6 18		
10 28	4 45.94	+11 6.2	2.261	3.103	11.4	21.1	10 28	4 51.52	+20 46.9	1.492	2.346	15.6	19.7
11 7	4 39.36	+10 48.5	2.196	3.110	8.4	21.0	11 7	4 43.83	+20 19.3	1.450	2.373	11.1	19.5
11 17	4 31.08	+10 34.6	2.157	3.116	5.3	20.8	11 17	4 33.66	+19 46.8	1.431	2.400	6.2	19.3
11 27	4 21.83	+10 26.6	2.147	3.122	3.4	20.7	11 27	4 22.27	+19 11.5	1.440	2.426	1.3	19.0
12 7	4 12.50	+10 26.2	2.167	3.127	4.9	20.8	12 7	4 11.13	+18 37.0	1.477	2.452	4.4	19.3
12 17	4 3.98	+10 34.7	2.217	3.131	7.9	21.0	12 17	4 1.56	+18 7.5	1.542	2.477	9.1	19.6
12 27	3 57.04	+10 52.5	2.294	3.135	10.9	21.2	12 27	3 54.55	+17 46.5	1.633	2.501	13.1	19.9
1 6	3 52.18	+11 19.1	2.393	3.139	13.4	21.4	1 6	3 50.57	+17 36.1	1.744	2.525	16.4	20.2
375152	2008 <i>CZ</i> ₃₄		11 28.9 338 ^o 04	4 ^o 8/27.7 18			160427	2005 <i>RL</i> ₄₃		11 28.9 88 ^o 29	0 ^o 5/26.9 15		
10 28	4 45.04	+13 12.4	1.124	2.004	17.7	20.2	10 28	4 24.12	+ 8 51.6	23.658	24.495	1.3	21.8
11 7	4 40.19	+12 37.5	1.061	1.995	13.1	19.9	11 7	4 22.96	+ 8 46.3	23.588	24.497	0.9	21.8
11 17	4 32.14	+12 6.1	1.019	1.987	8.1	19.6	11 17	4 21.69	+ 8 41.5	23.547	24.498	0.6	21.7
11 27	4 22.05	+11 43.2	1.000	1.979	4.8	19.4	11 27	4 20.35	+ 8 37.5	23.536	24.500	0.5	21.7
12 7	4 11.60	+11 33.5	1.005	1.973	7.5	19.5	12 7	4 19.00	+ 8 34.4	23.555	24.501	0.7	21.7
12 17	4 2.53	+11 40.1	1.034	1.967	12.6	19.8	12 17	4 17.70	+ 8 32.4	23.604	24.503	1.0	21.8
12 27	3 56.28	+12 4.0	1.084	1.962	17.4	20.1	12 27	4 16.50	+ 8 31.6	23.681	24.504	1.3	21.8
1 6	3 53.64	+12 43.7	1.151	1.958	21.6	20.3	1 6	4 15.45	+ 8 31.9	23.784	24.506	1.6	21.8
396285	2014 <i>DC</i> ₇		11 28.9 238 ^o 48	2 ^o 9/27.6 18			447962	2008 <i>BY</i> ₄₃		11 28.9 335 ^o 05	0 ^o 4/29.1 18		
10 28	4 46.34	+16 4.4	1.880	2.732	12.9	21.5	10 28	4 43.57	+25 4.1	1.490	2.354	15.1	20.2
11 7	4 40.11	+15 13.4	1.799	2.721	9.4	21.3	11 7	4 38.68	+24 27.6	1.415	2.342	11.0	19.9
11 17	4 31.70	+14 20.2	1.744	2.710	5.6	21.0	11 17	4 31.12	+23 39.6	1.362	2.331	6.3	19.6
11 27	4 21.97	+13 28.2	1.717	2.697	2.9	20.8	11 27	4 21.92	+22 42.2	1.334	2.320	1.2	19.2
12 7	4 12.01	+12 41.6	1.719	2.685	5.2	21.0	12 7	4 12.47	+21 39.5	1.334	2.311	4.2	19.4
12 17	4 2.94	+12 4.7	1.749	2.672	9.1	21.2	12 17	4 4.18	+20 37.8	1.361	2.302	9.3	19.7
12 27	3 55.76	+11 40.3	1.806	2.658	12.9	21.4	12 27	3 58.24	+19 43.6	1.411	2.294	13.8	19.9
1 6	3 51.09	+11 29.9	1.884	2.644	16.1	21.6	1 6	3 55.35	+19 1.5	1.483	2.287	17.7	20.2
117523	2005 <i>CD</i> ₅₂		11 28.9 278 ^o 22	0 ^o 5/28.7 18			136359	2004 <i>DS</i> ₄		11 28.9 87 ^o 26	5 ^o 4/ 1.1 18		
10 28	4 42.66	+20 49.7	2.360	3.208	10.8	20.4	10 28	4 50.33	+36 22.7	1.895	2.709	14.4	19.6
11 7	4 37.17	+20 31.3	2.276	3.197	7.8	20.2	11 7	4 43.18	+36 51.0	1.834	2.722	11.3	19.4
11 17	4 29.96	+20 9.1	2.218	3.185	4.4	19.9	11 17	4 33.47	+37 3.1	1.797	2.735	8.1	19.2
11 27	4 21.68	+19 44.3	2.188	3.174	0.8	19.6	11 27	4 22.29	+36 56.0	1.786	2.748	5.7	19.1
12 7	4 13.22	+19 18.8	2.188	3.162	3.2	19.8	12 7	4 11.05	+36 30.1	1.804	2.761	5.9	19.2
12 17	4 5.45	+18 55.1	2.218	3.151	6.8	20.0	12 17	4 1.12	+35 49.1	1.849	2.774	8.5	19.3
12 27	3 59.16	+18 36.0	2.275	3.139	10.1	20.2	12 27	3 53.58	+34 59.6	1.920	2.787	11.5	19.5
1 6	3 54.90	+18 23.3	2.356	3.128	12.9	20.4	1 6	3 49.05	+34 8.4	2.014	2.799	14.3	19.8
423818	2006 <i>KM</i> ₂₇		11 28.9 131 ^o 22	0 ^o 0/28.8 16			480795	2016 <i>PP</i> ₅₄		11 28.9 147 ^o 95	1 ^o 4/29.3 18		
10 28	4 52.36	+21 58.9	1.650	2.497	14.7	22.6	10 28	4 53.16	+24 32.4	1.711	2.552	14.5	21.5
11 7	4 44.50	+21 52.7	1.593	2.512	10.6	22.4	11 7	4 45.22	+24 53.4	1.647	2.562	10.6	21.3
11 17	4 34.12	+21 40.7	1.560	2.527	5.9	22.1	11 17	4 34.64	+25 7.4	1.607	2.571	6.2	21.1
11 27	4 22.35	+21 23.6	1.555	2.541	1.0	21.8	11 27	4 22.50	+25 13.0	1.595	2.580	1.8	20.8
12 7	4 10.59	+21 3.4	1.579	2.554	4.0	22.1	12 7	4 10.21	+25 10.6	1.613	2.588	4.0	21.0
12 17	4 0.19	+20 43.4	1.632	2.566	8.6	22.4	12 17	3 59.18	+25 2.5	1.660	2.595	8.5	21.3
12 27	3 52.23	+20 27.6	1.711	2.578	12.7	22.7	12 27	3 50.58	+24 53.1	1.733	2.601	12.5	21.5
1 6	3 47.26	+20 19.0	1.811	2.589	16.0	22.9	1 6	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
489162	2006 <i>ET</i> ₅₃		11 28.9 213°43	3°8/26.8	17		479570	2014 <i>CB</i> ₉		11 28.9 45°81	4°5/28.0	18	
10 28	4 41.73	+10 9.4	2.574	3.418	10.1	21.9	10 28	4 48.19	+11 45.4	1.217	2.088	17.3	20.2
11 7	4 36.27	+9 21.7	2.501	3.414	7.6	21.7	11 7	4 41.85	+11 30.7	1.179	2.107	12.6	20.0
11 17	4 29.36	+8 36.9	2.454	3.409	5.1	21.5	11 17	4 32.75	+11 22.7	1.162	2.127	7.8	19.8
11 27	4 21.62	+7 58.1	2.437	3.405	3.8	21.5	11 27	4 22.19	+11 24.6	1.170	2.148	4.6	19.7
12 7	4 13.79	+7 28.1	2.449	3.399	5.2	21.5	12 7	4 11.77	+11 38.3	1.203	2.170	6.8	19.9
12 17	4 6.58	+7 9.0	2.491	3.394	7.7	21.7	12 17	4 2.96	+12 4.3	1.262	2.192	11.1	20.2
12 27	4 0.66	+7 2.0	2.559	3.389	10.3	21.8	12 27	3 56.87	+12 42.0	1.344	2.214	15.3	20.5
1 6	3 56.49	+7 6.7	2.650	3.383	12.6	22.0	1 6	3 54.01	+13 29.5	1.445	2.237	18.7	20.8
367758	2010 <i>VF</i> ₂₀₈		11 28.9 98°94	0°6/28.7	18		450401	2005 <i>SE</i> ₂₀₇		11 28.9 350°09	1°3/29.4	17	
10 28	4 44.77	+20 38.8	2.068	2.918	12.0	20.6	10 28	4 44.05	+25 7.6	1.580	2.440	14.6	21.5
11 7	4 38.74	+20 20.6	2.003	2.925	8.6	20.4	11 7	4 38.93	+25 10.1	1.510	2.434	10.7	21.3
11 17	4 30.84	+19 58.6	1.964	2.931	4.8	20.2	11 17	4 31.25	+25 4.4	1.462	2.429	6.2	21.0
11 27	4 21.86	+19 34.2	1.952	2.938	0.9	19.9	11 27	4 21.97	+24 50.4	1.440	2.425	1.8	20.7
12 7	4 12.83	+19 9.6	1.971	2.945	3.5	20.2	12 7	4 12.45	+24 29.7	1.445	2.421	4.0	20.9
12 17	4 4.72	+18 47.6	2.018	2.951	7.3	20.4	12 17	4 4.02	+24 5.8	1.477	2.418	8.7	21.2
12 27	3 58.36	+18 30.9	2.092	2.958	10.8	20.6	12 27	3 57.86	+23 43.2	1.534	2.417	12.9	21.4
1 6	3 54.27	+18 21.4	2.189	2.964	13.6	20.8	1 6	3 54.64	+23 26.0	1.611	2.415	16.5	21.6
71471	2000 <i>BN</i> ₁₅		11 28.9 199°98	1°5/29.5	18		509621	2008 <i>FK</i> ₂₁		11 28.9 262°25	2°5/29.6	18	
10 28	4 46.59	+25 46.4	2.694	3.523	10.2	19.7	10 28	4 50.49	+27 18.8	1.552	2.399	15.5	21.9
11 7	4 39.91	+26 15.7	2.612	3.520	7.5	19.6	11 7	4 43.90	+27 36.2	1.468	2.385	11.6	21.6
11 17	4 31.49	+26 40.2	2.556	3.517	4.5	19.4	11 17	4 34.23	+27 43.8	1.407	2.370	7.1	21.3
11 27	4 21.99	+26 58.5	2.531	3.513	1.8	19.2	11 27	4 22.49	+27 39.2	1.372	2.355	2.9	21.0
12 7	4 12.26	+27 10.4	2.537	3.510	3.0	19.3	12 7	4 10.22	+27 22.5	1.365	2.339	4.7	21.1
12 17	4 3.17	+27 16.9	2.574	3.505	6.0	19.4	12 17	3 59.06	+26 57.1	1.386	2.324	9.5	21.4
12 27	3 55.51	+27 20.1	2.639	3.501	8.9	19.6	12 27	3 50.47	+26 28.7	1.431	2.308	14.0	21.6
1 6	3 49.85	+27 22.5	2.729	3.496	11.4	19.8	1 6	3 45.31	+26 3.3	1.497	2.292	18.0	21.8
401589	2013 <i>GM</i> ₉		11 28.9 266°85	3°0/27.7	18		440844	2006 <i>SF</i> ₁₀₅		11 28.9 51°73	9°7/4.6	18	
10 28	4 44.28	+15 6.9	1.940	2.795	12.5	21.2	10 28	4 56.48	+47 40.2	1.567	2.343	18.6	19.9
11 7	4 38.58	+14 25.5	1.862	2.785	9.1	21.0	11 7	4 48.04	+48 5.5	1.529	2.375	15.6	19.8
11 17	4 30.85	+13 43.6	1.809	2.775	5.5	20.7	11 17	4 36.20	+48 0.9	1.511	2.407	12.6	19.6
11 27	4 21.89	+13 4.2	1.784	2.764	3.0	20.6	11 27	4 22.72	+47 21.7	1.515	2.439	10.3	19.6
12 7	4 12.72	+12 31.0	1.788	2.754	5.1	20.7	12 7	4 9.73	+46 10.0	1.544	2.471	9.8	19.6
12 17	4 4.38	+12 7.1	1.820	2.743	8.8	20.9	12 17	3 59.06	+44 33.9	1.600	2.504	11.1	19.8
12 27	3 57.81	+11 54.9	1.878	2.732	12.3	21.1	12 27	3 51.89	+42 45.2	1.679	2.536	13.4	20.0
1 6	3 53.60	+11 55.2	1.957	2.722	15.4	21.3	1 6	3 48.57	+40 55.7	1.781	2.568	15.8	20.3
11621	Duccio		11 28.9 50°97	5°5/1.6	18		418498	2008 <i>RR</i> ₁₄₃		11 28.9 127°44	4°9/1.4	17	
10 28	4 47.17	+38 25.2	2.166	2.971	13.2	17.9	10 28	4 48.13	+38 20.4	2.630	3.423	11.4	21.6
11 7	4 40.74	+38 48.9	2.102	2.981	10.5	17.8	11 7	4 41.13	+38 48.6	2.562	3.434	9.1	21.4
11 17	4 32.05	+38 56.8	2.060	2.990	7.8	17.6	11 17	4 32.19	+39 3.4	2.518	3.444	6.8	21.3
11 27	4 22.08	+38 46.4	2.045	3.000	5.8	17.5	11 27	4 22.11	+39 2.5	2.502	3.454	5.1	21.2
12 7	4 12.01	+38 18.0	2.058	3.010	5.9	17.5	12 7	4 11.93	+38 46.0	2.515	3.463	5.2	21.2
12 17	4 3.05	+37 35.0	2.099	3.020	7.9	17.7	12 17	4 2.66	+38 16.1	2.558	3.473	7.0	21.4
12 27	3 56.18	+36 42.9	2.166	3.030	10.5	17.9	12 27	3 55.16	+37 37.2	2.628	3.482	9.3	21.5
1 6	3 51.97	+35 48.1	2.257	3.040	13.0	18.0	1 6	3 49.98	+36 54.4	2.722	3.490	11.4	21.7
323611	2004 <i>TD</i> ₃₆₈		11 28.9 85°61	4°7/30.7	18		493398	2014 <i>WA</i> ₁₇₃		11 28.9 7°18	3°5/28.0	18	
10 28	4 49.04	+34 39.6	2.167	2.981	12.9	20.4	10 28	4 43.81	+11 54.5	1.803	2.661	13.2	20.1
11 7	4 42.04	+35 20.1	2.104	2.994	10.0	20.2	11 7	4 38.29	+11 50.6	1.739	2.661	9.7	19.9
11 17	4 32.79	+35 47.9	2.066	3.006	7.0	20.1	11 17	4 30.70	+11 51.5	1.699	2.663	6.0	19.6
11 27	4 22.20	+36 0.1	2.055	3.019	4.9	20.0	11 27	4 21.88	+11 59.2	1.686	2.665	3.5	19.5
12 7	4 11.48	+35 56.3	2.073	3.031	5.3	20.0	12 7	4 12.91	+12 15.1	1.702	2.667	5.3	19.6
12 17	4 1.80	+35 39.0	2.120	3.043	7.7	20.2	12 17	4 4.85	+12 39.8	1.744	2.670	8.9	19.8
12 27	3 54.17	+35 12.6	2.193	3.055	10.5	20.4	12 27	3 58.66	+13 13.5	1.813	2.673	12.4	20.1
1 6	3 49.18	+34 42.7	2.290	3.067	13.0	20.6	1 6	3 54.90	+13 55.3	1.903	2.677	15.4	20.3
175214	2005 <i>GN</i> ₃₃		11 28.9 260°65	2°8/29.9	18		86568	2000 <i>EU</i> ₃₂		11 28.9 161°74	0°9/28.6	18	
10 28	4 50.04	+28 52.6	1.460	2.309	16.2	20.0	10 28	4 49.28	+19 31.1	1.920	2.766	13.0	20.2
11 7	4 43.60	+28 53.3	1.383	2.300	12.1	19.7	11 7	4 42.12	+19 20.3	1.852	2.772	9.4	20.0
11 17	4 34.02	+28 40.5	1.328	2.290	7.5	19.5	11 17	4 32.80	+19 6.5	1.810	2.777	5.2	19.7
11 27	4 22.44	+28 12.6	1.299	2.281	3.2	19.2	11 27	4 22.22	+18 50.7	1.797	2.782	1.2	19.5
12 7	4 10.47	+27 31.2	1.297	2.271	4.8	19.3	12 7	4 11.54	+18 34.9	1.813	2.787	3.8	19.7
12 17	3 59.82	+26 41.4	1.322	2.262	9.7	19.5	12 17	4 1.89	+18 21.7	1.859	2.790	8.0	19.9
12 27	3 51.91	+25 50.7	1.371	2.252	14.3	19.8	12 27	3 54.23	+18 13.7	1.931	2.793	11.7	20.2
1 6	3 47.53	+25 5.9	1.441	2.242	18.3	20.0	1 6	3 49.15	+18 12.8	2.026	2.795	14.8	20.4
447483	2006 <i>RV</i> ₃₁		11 28.9 97°51	2°0/28.1	18		355134	2006 <i>UW</i> ₂₀₄		11 28.9 116°11	15°2/1.4	17	
10 28	4 45.93	+17 22.7	1.932	2.784	12.6	22.0	10 28	5 8.38	+47 24.1	1.208	1.994	22.6	20.5
11 7	4 39.57	+16 52.3	1.876	2.799	9.1	21.8	11 7	4 59.45	+50 7.1	1.157	2.001	19.7	20.3
11 17	4 31.27	+16 20.5	1.846	2.813	5.2	21.6	11 17	4 44.23	+52 21.5	1.125	2.008	17.0	20.2
11 27	4 21.95	+15 49.8	1.843	2.827	2.0	21.4	11 27	4 24.26	+53 49.0	1.114	2.015	15.4	20.1
12 7	4 12.64	+15 23.0	1.870	2.840	4.3	21.6	12 7	4 2.88	+54 19.2	1.125	2.022	15.5	20.1
12 17	4 4.37	+15 2.7	1.926	2.854	8.0	21.9	12 17	3 44.11	+53 55.3	1.157	2.029	17.1	20.3
12 27	3 57.96	+14 51.3	2.008	2.867	11.4	22.1	12 27	3 31.01	+52 53.1	1.209	2.035	19.6	20.4
1 6	3 53.92	+14 49.6	2.112	2.880	14.3	22.3	1 6	3 24.68	+51 32.5	1.277	2.041	22.1	20.6
228708	2002 <i>RG</i> ₅₄		11 28.9 30°59	3°5/27.6	18		375680	2009 <i>HW</i> ₄₀		11 28.9 108°80			

EPHEMERIDES

11 28.9

11 28.9

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
252052	2000 <i>SF</i> ₁₇		11 28.9 70°06	1.4/29.6	18		513243	2006 <i>AT</i> ₇₅		11 28.9 221°33	0.4/29.1	18	
10 28	4 45.70	+26 47.4	1.939	2.783	13.0	20.1	10 28	4 48.25	+23 5.8	1.932	2.777	13.0	22.3
11 7	4 39.59	+26 32.0	1.875	2.791	9.5	19.9	11 7	4 41.59	+23 2.4	1.851	2.770	9.4	22.1
11 17	4 31.38	+26 7.4	1.834	2.798	5.6	19.7	11 17	4 32.63	+22 53.1	1.796	2.762	5.4	21.8
11 27	4 22.00	+25 34.0	1.822	2.806	1.8	19.5	11 27	4 22.25	+22 38.1	1.768	2.754	1.0	21.5
12 7	4 12.57	+24 54.4	1.838	2.814	3.5	19.6	12 7	4 11.59	+22 18.8	1.770	2.746	3.6	21.7
12 17	4 4.20	+24 12.2	1.883	2.821	7.4	19.9	12 17	4 1.87	+21 58.1	1.802	2.737	7.9	21.9
12 27	3 57.80	+23 32.2	1.955	2.829	11.0	20.1	12 27	3 54.12	+21 39.7	1.859	2.728	11.8	22.1
1 6	3 53.92	+22 58.1	2.050	2.837	14.0	20.3	1 6	3 49.00	+21 26.7	1.940	2.718	15.0	22.3
326845	2003 <i>UU</i> ₁₁₈		11 28.9 66°32	0.2/28.9	18		405304	2003 <i>UH</i> ₂₅		11 28.9 53°19	10.5/5.2	17	
10 28	4 50.73	+21 54.8	1.256	2.121	17.2	21.1	10 28	4 55.85	+52 19.2	2.021	2.754	16.4	20.5
11 7	4 43.94	+22 1.2	1.206	2.134	12.5	20.9	11 7	4 47.69	+53 16.2	1.974	2.777	14.3	20.4
11 17	4 34.07	+22 1.9	1.178	2.147	7.0	20.6	11 17	4 36.19	+53 46.9	1.946	2.799	12.3	20.3
11 27	4 22.45	+21 56.7	1.175	2.161	1.2	20.3	11 27	4 22.81	+53 45.5	1.941	2.822	10.9	20.3
12 7	4 10.80	+21 47.6	1.198	2.175	4.6	20.6	12 7	4 9.47	+53 11.2	1.960	2.845	10.5	20.3
12 17	4 0.81	+21 37.9	1.248	2.188	10.0	20.9	12 17	3 57.99	+52 8.4	2.004	2.868	11.3	20.4
12 27	3 53.76	+21 31.9	1.321	2.202	14.7	21.2	12 27	3 49.73	+50 46.0	2.072	2.892	12.7	20.5
1 6	3 50.24	+21 32.9	1.413	2.216	18.5	21.5	1 6	3 45.25	+49 14.0	2.161	2.915	14.4	20.7
284704	2008 <i>SO</i> ₂₈₂		11 28.9 180°47	0.8/29.3	18		329654	2003 <i>SD</i> ₃₁₉		11 28.9 16°37	2.6/29.7	17	
10 28	4 48.77	+24 32.7	2.081	2.920	12.4	21.8	10 28	4 46.30	+27 34.6	1.976	2.817	12.9	20.2
11 7	4 41.75	+24 26.6	2.006	2.921	9.0	21.5	11 7	4 40.20	+28 9.7	1.907	2.819	9.6	20.0
11 17	4 32.61	+24 13.5	1.957	2.922	5.2	21.3	11 17	4 31.85	+28 37.4	1.862	2.822	5.9	19.8
11 27	4 22.22	+23 53.7	1.937	2.922	1.2	21.0	11 27	4 22.13	+28 55.5	1.845	2.825	2.8	19.6
12 7	4 11.68	+23 28.6	1.946	2.922	3.4	21.2	12 7	4 12.17	+29 3.8	1.857	2.829	4.0	19.7
12 17	4 2.10	+23 1.2	1.986	2.921	7.3	21.5	12 17	4 3.15	+29 3.7	1.897	2.833	7.6	19.9
12 27	3 54.43	+22 35.5	2.053	2.919	10.9	21.7	12 27	3 56.09	+28 58.8	1.964	2.837	11.0	20.1
1 6	3 49.24	+22 14.6	2.143	2.916	13.9	21.9	1 6	3 51.64	+28 53.0	2.053	2.841	14.0	20.3
235842	2004 <i>YU</i> ₂₃		11 28.9 194°36	4.1/27.2	18		281767	2009 <i>FE</i> ₇₇		11 28.9 113°31	2.9/27.6	18	
10 28	4 42.36	+7 51.9	2.538	3.378	10.4	20.1	10 28	4 45.40	+14 4.3	2.205	3.052	11.5	21.4
11 7	4 36.75	+7 28.0	2.468	3.377	7.8	20.0	11 7	4 38.96	+13 25.2	2.151	3.069	8.3	21.3
11 17	4 29.66	+7 9.5	2.425	3.376	5.4	19.8	11 17	4 30.88	+12 47.2	2.123	3.086	5.0	21.1
11 27	4 21.73	+6 58.9	2.410	3.375	4.1	19.7	11 27	4 21.94	+12 13.2	2.125	3.103	2.9	21.0
12 7	4 13.69	+6 58.1	2.425	3.374	5.3	19.8	12 7	4 13.05	+11 45.8	2.156	3.119	4.6	21.1
12 17	4 6.30	+7 7.9	2.469	3.372	7.8	20.0	12 17	4 5.06	+11 27.4	2.217	3.134	7.7	21.4
12 27	4 0.21	+7 28.6	2.539	3.370	10.3	20.1	12 27	3 58.70	+11 19.3	2.304	3.150	10.7	21.6
1 6	3 55.90	+7 59.3	2.633	3.368	12.6	20.3	1 6	3 54.42	+11 21.8	2.414	3.164	13.2	21.8
483063	2015 <i>KN</i> ₁₄₄		11 28.9 125°39	0.5/28.8	16		422039	2014 <i>QJ</i> ₃₅₅		11 28.9 76°83	4.6/26.9	18	
10 28	4 49.31	+20 43.0	1.829	2.677	13.4	22.0	10 28	4 42.54	+9 19.1	2.144	2.993	11.7	21.1
11 7	4 42.17	+20 35.0	1.770	2.690	9.7	21.8	11 7	4 37.03	+8 31.0	2.085	3.000	8.8	20.9
11 17	4 32.83	+20 23.0	1.735	2.703	5.4	21.6	11 17	4 29.87	+7 47.5	2.052	3.007	5.9	20.7
11 27	4 22.25	+20 7.9	1.729	2.715	1.0	21.3	11 27	4 21.79	+7 12.4	2.047	3.013	4.6	20.6
12 7	4 11.64	+19 51.5	1.752	2.727	3.8	21.5	12 7	4 13.67	+6 48.8	2.070	3.020	6.0	20.8
12 17	4 2.18	+19 36.7	1.804	2.738	8.0	21.8	12 17	4 6.36	+6 38.5	2.121	3.027	8.7	20.9
12 27	3 54.83	+19 26.5	1.883	2.749	11.8	22.1	12 27	4 0.61	+6 42.2	2.198	3.033	11.5	21.1
1 6	3 50.13	+19 23.0	1.984	2.759	14.9	22.3	1 6	3 56.89	+6 58.9	2.297	3.040	14.0	21.3
133767	2003 <i>WO</i> ₆₈		11 28.9 270°20	0.4/28.7	18		269426	2009 <i>SW</i> ₁₃₂		11 28.9 242°56	4.0/27.6	18	
10 28	4 42.73	+22 2.5	2.355	3.201	10.9	20.3	10 28	4 47.22	+13 32.1	1.581	2.440	14.6	21.3
11 7	4 37.20	+21 31.6	2.276	3.196	7.8	20.1	11 7	4 41.07	+12 50.2	1.510	2.433	10.8	21.0
11 17	4 29.99	+20 55.5	2.223	3.190	4.4	19.8	11 17	4 32.42	+12 9.6	1.462	2.426	6.7	20.8
11 27	4 21.79	+20 15.9	2.199	3.185	0.8	19.6	11 27	4 22.23	+11 34.3	1.441	2.419	4.0	20.6
12 7	4 13.47	+19 35.1	2.205	3.179	3.1	19.7	12 7	4 11.81	+11 8.5	1.448	2.412	6.2	20.7
12 17	4 5.89	+18 56.4	2.241	3.174	6.7	20.0	12 17	4 2.45	+10 55.3	1.482	2.404	10.4	20.9
12 27	3 59.82	+18 22.9	2.304	3.168	10.0	20.2	12 27	3 55.28	+10 56.8	1.540	2.397	14.4	21.1
1 6	3 55.78	+17 57.0	2.391	3.163	12.7	20.3	1 6	3 50.98	+11 12.8	1.618	2.389	17.9	21.4
369918	2013 <i>CJ</i> ₂₀₄		11 28.9 51°54	3.2/30.0	18		171737	2000 <i>WA</i> ₉₈		11 28.9 269°87	0.6/28.8	18	
10 28	4 48.11	+29 42.3	1.730	2.570	14.4	21.2	10 28	4 49.83	+19 31.4	1.425	2.286	15.8	19.6
11 7	4 41.71	+30 2.3	1.665	2.575	10.8	20.9	11 7	4 43.41	+19 42.3	1.350	2.277	11.5	19.3
11 17	4 32.74	+30 11.0	1.623	2.581	6.9	20.7	11 17	4 33.96	+19 51.3	1.298	2.267	6.5	19.0
11 27	4 22.25	+30 6.4	1.607	2.586	3.5	20.5	11 27	4 22.52	+19 58.4	1.272	2.258	1.2	18.7
12 7	4 11.60	+29 49.2	1.620	2.591	4.6	20.6	12 7	4 10.62	+20 4.2	1.273	2.249	4.6	18.9
12 17	4 2.14	+29 22.7	1.660	2.597	8.3	20.9	12 17	3 59.88	+20 10.9	1.301	2.239	10.0	19.2
12 27	3 55.00	+28 52.3	1.727	2.603	12.1	21.1	12 27	3 51.72	+20 21.3	1.353	2.230	14.7	19.4
1 6	3 50.83	+28 23.2	1.815	2.609	15.3	21.3	1 6	3 46.96	+20 38.0	1.426	2.220	18.7	19.7
281259	2007 <i>PW</i> ₂₁		11 28.9 69°56	10.4/25.7	18		491566	2012 <i>RG</i> ₁		11 28.9 111°65	3.5/30.3	18	
10 28	4 46.21	-3 28.5	1.624	2.453	15.8	19.5	10 28	4 52.37	+31 13.1	1.741	2.571	14.8	21.4
11 7	4 39.78	-4 47.5	1.596	2.477	13.1	19.4	11 7	4 44.61	+31 23.9	1.685	2.589	11.1	21.2
11 17	4 31.37	-5 46.6	1.591	2.502	11.1	19.3	11 17	4 34.28	+31 21.0	1.652	2.606	7.1	21.0
11 27	4 21.99	-6 19.6	1.610	2.526	10.4	19.3	11 27	4 22.52	+31 2.7	1.646	2.623	3.8	20.8
12 7	4 12.81	-6 23.4	1.654	2.550	11.4	19.4	12 7	4 10.80	+30 30.6	1.669	2.639	4.7	20.9
12 17	4 4.86	-5 58.9	1.722	2.575	13.4	19.6	12 17	4 0.50	+29 49.0	1.720	2.654	8.3	21.2
12 27	3 58.98	-5 9.8	1.811	2.599	15.6	19.8	12 27	3 52.70	+29 4.2	1.798	2.669	11.9	21.4
1 6	3 55.59	-4 1.9	1.920	2.622	17.6	20.0	1 6	3 47.96	+28 22.2	1.898	2.684	15.1	21.7
328378	2008 <i>RD</i> ₈		11 28.9 221°19	4.0/26.7	17		412484	2014 <i>JP</i>		11 28.9 174°45			

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
225184	2008 <i>HX</i> ₅₄		11 28.9 202°68	2°3/28.1	18		522087	2015 <i>XQ</i> ₄₂₁		11 28.9 136°89	6°4/27.0	18	
10 28	4 48.18	+17 16.2	1.696	2.551	14.0	21.1	10 28	4 45.18	- 2 51.6	2.756	3.559	10.7	21.1
11 7	4 41.63	+16 42.1	1.625	2.548	10.2	20.8	11 7	4 38.59	- 3 0.3	2.698	3.568	8.7	21.0
11 17	4 32.68	+16 5.9	1.578	2.545	5.9	20.6	11 17	4 30.64	- 2 56.9	2.665	3.577	7.1	20.9
11 27	4 22.30	+15 30.1	1.558	2.542	2.4	20.4	11 27	4 21.96	- 2 38.9	2.661	3.586	6.4	20.9
12 7	4 11.73	+14 58.5	1.568	2.538	4.9	20.5	12 7	4 13.26	- 2 5.5	2.687	3.594	7.1	20.9
12 17	4 2.23	+14 34.5	1.605	2.533	9.3	20.8	12 17	4 5.23	- 1 17.4	2.741	3.602	8.7	21.1
12 27	3 54.88	+14 21.1	1.667	2.529	13.3	21.0	12 27	3 58.48	- 0 16.4	2.822	3.610	10.6	21.2
1 6	3 50.30	+14 19.6	1.751	2.524	16.6	21.2	1 6	3 53.43	+ 0 54.8	2.926	3.617	12.3	21.4
184462	2005 <i>ND</i> ₈₁		11 28.9 61°80	2°4/29.9	18		478683	2012 <i>TE</i> ₃₀₂		11 28.9 38°79	0°4/28.9	18	
10 28	4 46.84	+28 47.1	1.841	2.682	13.7	20.7	10 28	4 48.51	+20 1.8	1.213	2.084	17.3	20.2
11 7	4 40.60	+28 47.5	1.776	2.689	10.1	20.4	11 7	4 42.38	+20 14.8	1.169	2.100	12.4	20.0
11 17	4 32.05	+28 37.1	1.735	2.695	6.2	20.2	11 17	4 33.24	+20 24.7	1.146	2.116	6.9	19.7
11 27	4 22.18	+28 15.4	1.721	2.702	2.7	20.0	11 27	4 22.43	+20 31.7	1.148	2.134	1.2	19.4
12 7	4 12.23	+27 43.9	1.736	2.710	4.0	20.1	12 7	4 11.65	+20 36.9	1.175	2.152	4.7	19.7
12 17	4 3.40	+27 6.5	1.779	2.717	7.8	20.4	12 17	4 2.49	+20 42.7	1.229	2.171	10.0	20.1
12 27	3 56.72	+26 28.2	1.848	2.724	11.4	20.6	12 27	3 56.21	+20 52.2	1.305	2.190	14.6	20.4
1 6	3 52.75	+25 53.8	1.940	2.731	14.6	20.8	1 6	3 53.36	+21 7.4	1.401	2.210	18.3	20.7
264378	2000 <i>DP</i> ₄₃		11 28.9 294°55	3°8/27.3	17		343943	2011 <i>KQ</i> ₂₃		11 28.9 170°54	0°2/28.9	18	
10 28	4 42.28	+11 4.4	2.187	3.037	11.4	20.6	10 28	4 48.50	+23 23.3	2.086	2.926	12.3	21.2
11 7	4 36.98	+10 31.1	2.110	3.028	8.5	20.4	11 7	4 41.46	+22 41.3	2.014	2.930	8.9	21.0
11 17	4 29.94	+10 1.1	2.059	3.018	5.5	20.2	11 17	4 32.44	+21 51.7	1.968	2.934	5.0	20.7
11 27	4 21.84	+ 9 37.2	2.036	3.009	3.8	20.1	11 27	4 22.30	+20 56.4	1.951	2.937	0.8	20.4
12 7	4 13.57	+ 9 22.3	2.042	3.000	5.4	20.2	12 7	4 12.13	+19 59.1	1.964	2.939	3.4	20.6
12 17	4 6.00	+ 9 18.2	2.076	2.990	8.4	20.3	12 17	4 2.96	+19 3.9	2.008	2.940	7.5	20.9
12 27	3 59.93	+ 9 25.8	2.137	2.981	11.4	20.5	12 27	3 55.68	+18 15.4	2.080	2.941	11.0	21.1
1 6	3 55.90	+ 9 45.0	2.219	2.972	14.1	20.7	1 6	3 50.80	+17 36.7	2.175	2.941	14.0	21.3
473677	2015 <i>XZ</i> ₃₆₄		11 28.9 213°16	0°3/29.1	17		381356	2008 <i>DS</i> ₁₉		11 28.9 123°57	1°6/29.6	18	
10 28	4 45.78	+21 54.3	2.231	3.075	11.5	21.5	10 28	4 51.59	+26 37.1	1.690	2.532	14.7	21.4
11 7	4 39.55	+22 10.5	2.156	3.074	8.3	21.3	11 7	4 44.06	+26 33.3	1.631	2.546	10.7	21.2
11 17	4 31.40	+22 23.5	2.106	3.072	4.7	21.1	11 17	4 34.01	+26 19.5	1.596	2.560	6.3	20.9
11 27	4 22.09	+22 32.8	2.085	3.071	0.9	20.8	11 27	4 22.56	+25 55.5	1.589	2.573	2.1	20.7
12 7	4 12.57	+22 39.0	2.095	3.070	3.1	21.0	12 7	4 11.11	+25 23.2	1.611	2.586	4.0	20.9
12 17	4 3.82	+22 43.3	2.133	3.069	6.9	21.2	12 17	4 1.02	+24 46.9	1.661	2.598	8.3	21.2
12 27	3 56.73	+22 47.9	2.200	3.067	10.2	21.4	12 27	3 53.35	+24 12.0	1.737	2.609	12.3	21.4
1 6	3 51.87	+22 55.0	2.290	3.066	13.1	21.6	1 6	3 48.68	+23 42.9	1.836	2.620	15.5	21.7
356172	2009 <i>HC</i> ₇₄		11 28.9 206°34	5°3/27.1	18		100560	1997 <i>GA</i> ₁₂		11 28.9 175°97	1°4/28.3	18	
10 28	4 45.31	+ 5 32.2	2.241	3.077	11.7	21.3	10 28	4 46.34	+18 37.3	2.170	3.016	11.7	20.8
11 7	4 39.06	+ 5 5.8	2.169	3.073	9.0	21.1	11 7	4 39.87	+18 8.4	2.099	3.018	8.4	20.6
11 17	4 31.06	+ 4 47.0	2.123	3.069	6.5	21.0	11 17	4 31.55	+17 36.8	2.053	3.020	4.8	20.4
11 27	4 22.03	+ 4 39.1	2.105	3.064	5.3	20.9	11 27	4 22.16	+17 4.4	2.037	3.021	1.5	20.1
12 7	4 12.85	+ 4 44.3	2.116	3.058	6.5	21.0	12 7	4 12.68	+16 33.9	2.050	3.022	3.8	20.3
12 17	4 4.39	+ 5 3.3	2.156	3.053	9.1	21.1	12 17	4 4.06	+16 8.0	2.094	3.022	7.5	20.5
12 27	3 57.47	+ 5 35.8	2.222	3.046	11.8	21.3	12 27	3 57.14	+15 49.3	2.164	3.022	10.8	20.8
1 6	3 52.59	+ 6 19.9	2.309	3.040	14.3	21.4	1 6	3 52.43	+15 39.5	2.258	3.021	13.6	21.0
67409	2000 <i>QC</i> ₅		11 28.9 106°92	3°3/27.9	18		11572	Schindler		11 28.9 145°86	0°2/28.9	18	
10 28	4 49.83	+15 46.2	1.391	2.254	16.0	19.9	10 28	4 49.17	+22 5.1	1.908	2.753	13.1	19.5
11 7	4 42.97	+15 5.9	1.339	2.265	11.6	19.6	11 7	4 42.09	+21 49.8	1.843	2.762	9.4	19.3
11 17	4 33.43	+14 25.5	1.309	2.277	6.8	19.4	11 17	4 32.85	+21 29.1	1.804	2.771	5.3	19.0
11 27	4 22.41	+13 48.9	1.306	2.288	3.3	19.2	11 27	4 22.38	+21 3.9	1.793	2.779	0.9	18.7
12 7	4 11.42	+13 20.2	1.330	2.298	5.9	19.4	12 7	4 11.86	+20 36.5	1.812	2.787	3.6	19.0
12 17	4 1.86	+13 3.0	1.380	2.309	10.5	19.7	12 17	4 2.42	+20 10.1	1.860	2.794	7.8	19.2
12 27	3 54.88	+12 59.4	1.455	2.319	14.7	20.0	12 27	3 55.02	+19 48.3	1.934	2.800	11.5	19.5
1 6	3 51.02	+13 9.7	1.549	2.329	18.1	20.2	1 6	3 50.22	+19 33.7	2.032	2.806	14.6	19.7
254892	2005 <i>ST</i> ₅₇		11 28.9 29°27	1°0/28.6	17		414705	2009 <i>WM</i> ₁₈₄		11 28.9 346°89	0°4/28.9	17	
10 28	4 44.54	+19 58.5	1.816	2.673	13.1	20.9	10 28	4 44.03	+20 4.2	1.839	2.696	13.0	20.7
11 7	4 38.86	+19 38.5	1.751	2.676	9.4	20.7	11 7	4 38.64	+20 13.1	1.766	2.691	9.4	20.5
11 17	4 31.06	+19 14.9	1.711	2.680	5.3	20.4	11 17	4 31.05	+20 19.8	1.717	2.686	5.3	20.3
11 27	4 22.03	+18 49.5	1.698	2.684	1.2	20.2	11 27	4 22.10	+20 24.6	1.695	2.681	0.9	19.9
12 7	4 12.90	+18 24.8	1.714	2.688	3.9	20.4	12 7	4 12.90	+20 28.5	1.702	2.677	3.7	20.1
12 17	4 4.78	+18 3.9	1.757	2.692	8.1	20.6	12 17	4 4.59	+20 33.0	1.736	2.674	8.0	20.4
12 27	3 58.60	+17 49.7	1.827	2.697	11.8	20.9	12 27	3 58.17	+20 40.4	1.797	2.671	11.8	20.6
1 6	3 54.93	+17 44.0	1.918	2.702	15.0	21.1	1 6	3 54.29	+20 52.4	1.880	2.669	15.0	20.8
494033	2016 <i>AM</i> ₁₈₇		11 28.9 304°48	1°0/28.6	18		330228	2006 <i>KV</i> ₃		11 28.9 176°63	3°0/27.3	17	
10 28	4 43.98	+18 11.4	2.158	3.009	11.6	20.7	10 28	4 42.09	+13 44.3	2.409	3.258	10.6	20.9
11 7	4 38.34	+18 16.6	2.075	2.997	8.4	20.4	11 7	4 36.65	+12 55.0	2.339	3.258	7.7	20.8
11 17	4 30.78	+18 21.0	2.018	2.985	4.7	20.2	11 17	4 29.69	+12 6.2	2.296	3.258	4.8	20.6
11 27	4 22.00	+18 25.5	1.989	2.974	1.2	19.9	11 27	4 21.86	+11 21.1	2.283	3.259	3.0	20.5
12 7	4 12.95	+18 30.8	1.989	2.963	3.5	20.1	12 7	4 13.96	+10 42.8	2.299	3.259	4.6	20.6
12 17	4 4.60	+18 38.3	2.019	2.952	7.3	20.3	12 17	4 6.77	+10 13.8	2.344	3.259	7.5	20.8
12 27	3 57.86	+18 49.6	2.075	2.941	10.8	20.5	12 27	4 0.98	+ 9 55.9	2.416	3.259	10.4	20.9
1 6	3 53.33	+19 6.0	2.155	2.930	13.8	20.7	1 6	3 57.06	+ 9 49.5	2.510	3.259	12.8	21.1
1580	Betulia		11 28.9 249°54	3°9/29.2	18	A	515603	2014 <i>JN</i> ₆₅		11 28.9 221°17	2°5/28.0		

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2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
406624	2008 <i>CC</i> ₁₃₄		11 28.9 266°05	3°6/27.4	17		445965	2013 <i>AY</i> ₁₁₅		11 28.9 186°42	4°4/30.9	18	
10 28	4 44.72	+12 16.7	2.128	2.976	11.8	21.9	10 28	4 49.41	+34 54.9	2.116	2.930	13.1	21.4
11 7	4 38.91	+11 40.1	2.039	2.956	8.8	21.7	11 7	4 42.47	+35 8.0	2.040	2.930	10.2	21.2
11 17	4 31.14	+11 5.1	1.975	2.936	5.6	21.5	11 17	4 33.19	+35 6.9	1.987	2.930	7.1	21.0
11 27	4 22.15	+10 34.9	1.940	2.915	3.6	21.3	11 27	4 22.52	+34 49.5	1.962	2.929	4.6	20.9
12 7	4 12.84	+10 12.4	1.934	2.894	5.4	21.4	12 7	4 11.66	+34 16.3	1.965	2.928	5.0	20.9
12 17	4 4.21	+10 0.4	1.957	2.872	8.7	21.5	12 17	4 1.86	+33 30.8	1.998	2.926	7.7	21.1
12 27	3 57.16	+10 0.4	2.006	2.851	12.1	21.7	12 27	3 54.15	+32 38.6	2.058	2.925	10.9	21.3
1 6	3 52.31	+10 12.7	2.077	2.828	15.0	21.9	1 6	3 49.15	+31 45.9	2.141	2.923	13.7	21.5
126036	2001 <i>YX</i> ₆₈		11 28.9 82°43	0°4/28.9	18		265034	2003 <i>OT</i> ₁₉		11 28.9 51°09	5°2/1.9	18	
10 28	4 48.39	+20 30.5	1.584	2.441	14.7	20.2	10 28	4 48.37	+38 12.6	1.909	2.720	14.5	19.6
11 7	4 41.98	+20 32.1	1.520	2.445	10.6	19.9	11 7	4 41.67	+38 6.6	1.855	2.740	11.4	19.4
11 17	4 32.99	+20 30.2	1.479	2.448	6.0	19.7	11 17	4 32.63	+37 41.9	1.824	2.760	8.1	19.3
11 27	4 22.46	+20 25.2	1.465	2.452	1.0	19.3	11 27	4 22.39	+36 57.4	1.819	2.780	5.6	19.2
12 7	4 11.75	+20 18.7	1.480	2.455	4.1	19.6	12 7	4 12.30	+35 55.4	1.842	2.801	5.6	19.2
12 17	4 2.23	+20 13.1	1.521	2.459	8.9	19.9	12 17	4 3.61	+34 41.5	1.893	2.822	8.1	19.4
12 27	3 55.03	+20 11.6	1.588	2.462	13.1	20.1	12 27	3 57.24	+33 23.0	1.971	2.843	11.0	19.6
1 6	3 50.80	+20 16.5	1.676	2.465	16.6	20.4	1 6	3 53.69	+32 6.9	2.072	2.864	13.7	19.9
394990	2009 <i>BW</i> ₄₀		11 28.9 338°14	1°6/28.5	18		20102	Takasago		11 28.9 112°82	6°6/26.4	18	
10 28	4 46.07	+17 48.9	1.593	2.454	14.4	21.2	10 28	4 43.46	- 1 14.5	2.562	3.378	11.1	18.0
11 7	4 40.32	+17 40.7	1.524	2.451	10.4	20.9	11 7	4 37.45	- 1 47.8	2.514	3.393	9.0	17.9
11 17	4 32.08	+17 31.3	1.478	2.447	5.9	20.7	11 17	4 30.07	- 2 9.7	2.490	3.408	7.0	17.8
11 27	4 22.31	+17 22.4	1.459	2.444	1.8	20.4	11 27	4 21.97	- 2 16.9	2.495	3.422	6.6	17.8
12 7	4 12.30	+17 16.0	1.468	2.441	4.6	20.6	12 7	4 13.89	- 2 8.0	2.527	3.436	7.4	17.8
12 17	4 3.36	+17 14.3	1.503	2.439	9.2	20.8	12 17	4 6.52	- 1 42.7	2.588	3.450	9.1	18.0
12 27	3 56.60	+17 19.9	1.564	2.437	13.3	21.1	12 27	4 0.49	- 1 2.5	2.673	3.463	11.1	18.1
1 6	3 52.71	+17 33.9	1.645	2.435	16.8	21.3	1 6	3 56.20	- 0 10.1	2.781	3.476	12.8	18.3
54411	Bobestelle		11 28.9 75°26	0°7/29.3	18		332471	2008 <i>DM</i> ₈₁		11 28.9 150°60	0°0/28.9	16	
10 28	4 46.81	+26 3.3	1.916	2.760	13.1	18.7	10 28	4 50.56	+22 40.2	1.884	2.726	13.3	22.4
11 7	4 40.28	+25 26.1	1.862	2.779	9.5	18.5	11 7	4 43.15	+22 27.4	1.819	2.736	9.6	22.2
11 17	4 31.77	+24 39.7	1.833	2.798	5.4	18.3	11 17	4 33.49	+22 8.4	1.779	2.746	5.4	22.0
11 27	4 22.23	+23 45.9	1.832	2.817	1.3	18.0	11 27	4 22.57	+21 44.2	1.768	2.754	0.9	21.7
12 7	4 12.81	+22 48.3	1.861	2.836	3.4	18.2	12 7	4 11.59	+21 16.8	1.786	2.762	3.6	21.9
12 17	4 4.57	+21 51.6	1.918	2.855	7.4	18.5	12 17	4 1.73	+20 49.5	1.834	2.769	7.9	22.2
12 27	3 58.34	+21 0.5	2.003	2.874	10.9	18.8	12 27	3 53.99	+20 26.2	1.909	2.775	11.6	22.4
1 6	3 54.57	+20 18.6	2.111	2.893	13.9	19.0	1 6	3 48.92	+20 9.9	2.007	2.780	14.8	22.7
49967	1999 <i>XC</i> ₂₃₅		11 28.9 316°62	3°9/27.9	18		523235	2016 <i>YY</i> ₁₃		11 28.9 297°61	4°9/30.2	17	
10 28	4 46.28	+14 10.1	1.286	2.157	16.5	18.7	10 28	4 50.22	+32 24.2	1.815	2.643	14.4	21.0
11 7	4 40.98	+13 42.2	1.215	2.145	12.2	18.4	11 7	4 43.58	+33 20.4	1.736	2.636	11.1	20.8
11 17	4 32.68	+13 16.4	1.167	2.134	7.4	18.1	11 17	4 34.10	+34 5.7	1.681	2.628	7.7	20.6
11 27	4 22.44	+12 56.5	1.142	2.123	4.0	17.9	11 27	4 22.73	+34 35.5	1.652	2.621	5.1	20.4
12 7	4 11.80	+12 46.2	1.144	2.113	6.6	18.0	12 7	4 10.86	+34 47.9	1.652	2.614	5.8	20.4
12 17	4 2.35	+12 48.7	1.170	2.103	11.5	18.3	12 17	3 59.98	+34 44.3	1.679	2.607	9.0	20.6
12 27	3 55.47	+13 5.7	1.219	2.093	16.2	18.5	12 27	3 51.45	+34 29.4	1.732	2.600	12.5	20.8
1 6	3 51.96	+13 36.8	1.287	2.084	20.2	18.7	1 6	3 46.08	+34 9.6	1.806	2.593	15.7	21.0
476619	2008 <i>SA</i> ₁₅₅		11 28.9 43°29	3°0/29.8	16		40626	1999 <i>RP</i> ₁₇₂		11 28.9 120°10	1°1/29.4	18	
10 28	4 50.08	+27 23.2	1.251	2.111	17.6	20.8	10 28	4 49.57	+24 41.3	1.884	2.727	13.4	19.7
11 7	4 43.62	+27 51.5	1.207	2.130	13.0	20.6	11 7	4 42.49	+24 49.7	1.823	2.739	9.7	19.5
11 17	4 34.00	+28 8.1	1.184	2.149	7.9	20.4	11 17	4 33.15	+24 51.2	1.786	2.751	5.6	19.3
11 27	4 22.62	+28 10.8	1.186	2.168	3.4	20.2	11 27	4 22.53	+24 45.4	1.777	2.762	1.6	19.1
12 7	4 11.29	+28 0.4	1.214	2.189	5.0	20.3	12 7	4 11.83	+24 33.4	1.798	2.773	3.6	19.2
12 17	4 1.71	+27 41.3	1.268	2.210	9.8	20.7	12 17	4 2.26	+24 17.8	1.848	2.784	7.7	19.5
12 27	3 55.15	+27 19.7	1.345	2.231	14.1	21.0	12 27	3 54.79	+24 2.3	1.924	2.794	11.3	19.8
1 6	3 52.17	+27 1.2	1.442	2.252	17.8	21.3	1 6	3 49.99	+23 50.5	2.023	2.804	14.4	20.0
262698	2006 <i>WY</i> ₁₉₄		11 28.9 344°63	1°9/28.5	18		156018	2001 <i>RM</i> ₉₄		11 28.9 29°35	0°0/28.8	18	
10 28	4 44.67	+16 39.2	1.581	2.445	14.3	20.2	10 28	4 46.16	+23 16.0	1.113	1.990	18.0	19.0
11 7	4 39.36	+16 37.7	1.511	2.438	10.4	20.0	11 7	4 40.90	+22 48.1	1.068	2.002	13.0	18.7
11 17	4 31.57	+16 37.0	1.464	2.433	6.0	19.7	11 17	4 32.52	+22 11.0	1.045	2.016	7.3	18.4
11 27	4 22.25	+16 38.3	1.443	2.427	2.1	19.5	11 27	4 22.42	+21 27.3	1.044	2.031	1.2	18.1
12 7	4 12.64	+16 43.2	1.449	2.423	4.7	19.6	12 7	4 12.40	+20 41.9	1.069	2.046	4.8	18.4
12 17	4 4.04	+16 53.5	1.483	2.419	9.2	19.9	12 17	4 4.13	+20 1.0	1.118	2.063	10.4	18.8
12 27	3 57.58	+17 10.9	1.541	2.415	13.4	20.1	12 27	3 58.82	+19 30.0	1.190	2.081	15.2	19.1
1 6	3 53.95	+17 35.9	1.620	2.413	16.9	20.4	1 6	3 57.01	+19 11.8	1.281	2.099	19.2	19.4
138930	2001 <i>BQ</i> ₃		11 28.9 287°83	2°8/29.6	18		439682	2014 <i>JY</i> ₃₁		11 28.9 26°92	0°4/29.2	18	
10 28	4 50.71	+26 42.4	1.386	2.240	16.6	20.4	10 28	4 46.60	+24 1.1	1.674	2.528	14.2	20.7
11 7	4 44.32	+27 13.6	1.314	2.234	12.3	20.2	11 7	4 40.61	+23 41.6	1.607	2.529	10.3	20.5
11 17	4 34.64	+27 35.7	1.263	2.227	7.5	19.9	11 17	4 32.21	+23 14.1	1.563	2.530	5.9	20.2
11 27	4 22.79	+27 45.9	1.238	2.220	3.1	19.6	11 27	4 22.38	+22 39.7	1.546	2.532	1.1	19.9
12 7	4 10.45	+27 43.4	1.239	2.213	5.0	19.7	12 7	4 12.43	+22 1.3	1.557	2.534	3.8	20.1
12 17	3 59.42	+27 31.2	1.267	2.207	10.0	20.0	12 17	4 3.61	+21 23.0	1.597	2.535	8.4	20.4
12 27	3 51.21	+27 14.9	1.318	2.200	14.7	20.2	12 27	3 57.00	+20 49.6	1.661	2.537	12.5	20.7
1 6	3 46.68	+27 0.5	1.390	2.194	18.7	20.5	1 6	3 53.20	+20 24.6	1.748	2.539	15.9	20.9
359235	2009 <i>EP</i> ₁₇		11 28.9 215°28	5°5/1.3	16		130246	2000 <i>CN</i> ₈₃		11 28.9 229°88	9°1		

EPHEMERIDES

11 28.9

11 29.0

2020/21	α_{2000}	δ_{2000}	Δ	r	β	V	2020/21	α_{2000}	δ_{2000}	Δ	r	β	V
281493	2008 <i>ST</i> ₂₇₇		11 28.9 113°59	0°7/28.7	18		407073	2009 <i>SV</i> ₁₉₇		11 28.9 81°24	4°2/30.8	17	
10 28	4 48.94	+21 7.0	1.787	2.637	13.6	22.0	10 28	4 47.87	+34 13.7	2.153	2.971	12.8	21.1
11 7	4 41.97	+20 41.8	1.731	2.652	9.8	21.7	11 7	4 41.25	+34 34.0	2.090	2.983	9.9	20.9
11 17	4 32.81	+20 11.6	1.699	2.667	5.5	21.5	11 17	4 32.47	+34 41.3	2.051	2.995	6.8	20.8
11 27	4 22.47	+19 38.2	1.695	2.681	1.1	21.2	11 27	4 22.45	+34 33.7	2.039	3.007	4.4	20.6
12 7	4 12.16	+19 4.6	1.721	2.695	3.9	21.5	12 7	4 12.36	+34 11.8	2.056	3.019	4.8	20.7
12 17	4 3.05	+18 34.3	1.775	2.709	8.1	21.8	12 17	4 3.33	+33 38.5	2.102	3.031	7.4	20.9
12 27	3 56.06	+18 10.8	1.855	2.722	11.9	22.0	12 27	3 56.29	+32 58.8	2.175	3.042	10.3	21.1
1 6	3 51.72	+17 56.4	1.958	2.734	15.0	22.3	1 6	3 51.82	+32 18.1	2.271	3.054	13.0	21.3
90886	1996 <i>YT</i> ₂		11 28.9 26°85	2°0/28.4	18		133535	2003 <i>TJ</i> ₉		11 28.9 127°33	3°7/30.9	17	
10 28	4 45.23	+18 52.1	1.189	2.067	17.1	18.1	10 28	4 46.29	+34 37.1	2.416	3.229	11.7	20.1
11 7	4 40.05	+18 22.9	1.144	2.078	12.3	17.8	11 7	4 39.94	+34 41.0	2.343	3.234	9.0	19.9
11 17	4 32.00	+17 50.8	1.119	2.090	6.9	17.6	11 17	4 31.68	+34 32.3	2.295	3.238	6.2	19.7
11 27	4 22.35	+17 18.9	1.119	2.104	2.1	17.3	11 27	4 22.32	+34 9.8	2.274	3.243	4.0	19.6
12 7	4 12.73	+16 51.5	1.144	2.118	5.3	17.6	12 7	4 12.88	+33 34.6	2.283	3.247	4.3	19.6
12 17	4 4.66	+16 32.5	1.194	2.134	10.5	17.9	12 17	4 4.35	+32 49.7	2.322	3.251	6.8	19.8
12 27	3 59.32	+16 25.2	1.267	2.150	15.0	18.2	12 27	3 57.58	+31 59.8	2.388	3.255	9.5	20.0
1 6	3 57.24	+16 30.4	1.358	2.168	18.7	18.5	1 6	3 53.11	+31 9.9	2.478	3.259	12.1	20.2
268199	2005 <i>AL</i> ₄₀		11 28.9 259°37	5°1/27.3	18		318989	2005 <i>UX</i> ₃₇₈		11 28.9 314°49	1°2/28.5	18	
10 28	4 43.88	+ 4 44.1	2.378	3.212	11.2	20.3	10 28	4 44.65	+19 10.3	1.979	2.832	12.4	21.4
11 7	4 38.04	+ 4 31.0	2.304	3.206	8.7	20.1	11 7	4 38.91	+18 50.9	1.908	2.830	8.9	21.2
11 17	4 30.56	+ 4 26.3	2.256	3.200	6.3	20.0	11 17	4 31.17	+18 28.6	1.861	2.829	5.0	20.9
11 27	4 22.12	+ 4 32.7	2.236	3.194	5.1	19.9	11 27	4 22.25	+18 5.2	1.842	2.827	1.4	20.7
12 7	4 13.51	+ 4 51.5	2.245	3.187	6.2	20.0	12 7	4 13.17	+17 43.1	1.853	2.826	3.8	20.8
12 17	4 5.56	+ 5 23.1	2.283	3.181	8.6	20.1	12 17	4 4.97	+17 24.8	1.892	2.824	7.8	21.1
12 27	3 59.00	+ 6 6.7	2.348	3.175	11.2	20.3	12 27	3 58.56	+17 13.0	1.957	2.823	11.4	21.3
1 6	3 54.35	+ 7 0.5	2.435	3.168	13.5	20.4	1 6	3 54.49	+17 9.5	2.044	2.822	14.4	21.5
427030	2014 <i>SL</i> ₃₀₉		11 28.9 70°29	3°6/26.9	18		221801	2008 <i>CX</i> ₆₅		11 28.9 204°86	1°8/28.4	18	
10 28	4 42.49	+13 19.0	2.246	3.097	11.2	21.1	10 28	4 49.52	+18 13.6	1.822	2.671	13.4	22.1
11 7	4 36.97	+12 10.4	2.189	3.108	8.2	20.9	11 7	4 42.59	+17 46.0	1.746	2.666	9.8	21.9
11 17	4 29.89	+11 2.7	2.158	3.119	5.2	20.8	11 17	4 33.32	+17 15.4	1.694	2.661	5.6	21.6
11 27	4 21.99	+10 0.0	2.156	3.130	3.6	20.7	11 27	4 22.63	+16 44.0	1.670	2.655	1.9	21.4
12 7	4 14.11	+ 9 6.4	2.184	3.141	5.2	20.8	12 7	4 11.71	+16 14.6	1.676	2.648	4.4	21.5
12 17	4 7.05	+ 8 24.8	2.241	3.152	8.0	21.0	12 17	4 1.79	+15 50.7	1.711	2.640	8.7	21.8
12 27	4 1.50	+ 7 57.1	2.324	3.163	10.9	21.2	12 27	3 53.91	+15 35.4	1.772	2.632	12.7	22.0
1 6	3 57.90	+ 7 43.5	2.430	3.174	13.3	21.4	1 6	3 48.72	+15 30.4	1.855	2.623	16.0	22.2
117798	2005 <i>GK</i> ₁₅₀		11 28.9 55°53	5°8/26.5	18		513523	2009 <i>WW</i> ₁₈		11 29.0 199°82	0°9/28.7	18	
10 28	4 44.58	+ 9 50.1	1.633	2.492	14.2	19.3	10 28	4 49.69	+19 1.3	1.742	2.592	13.9	22.2
11 7	4 38.85	+ 8 30.0	1.587	2.507	10.6	19.1	11 7	4 42.83	+19 2.6	1.669	2.590	10.1	21.9
11 17	4 31.06	+ 7 15.2	1.565	2.521	7.3	18.9	11 17	4 33.51	+19 2.0	1.620	2.587	5.7	21.7
11 27	4 22.19	+ 6 11.9	1.570	2.536	5.8	18.9	11 27	4 22.67	+18 59.8	1.599	2.584	1.3	21.4
12 7	4 13.39	+ 5 25.4	1.602	2.551	7.6	19.0	12 7	4 11.56	+18 57.6	1.607	2.581	4.1	21.6
12 17	4 5.74	+ 4 58.5	1.661	2.566	10.7	19.2	12 17	4 1.49	+18 57.2	1.643	2.577	8.6	21.8
12 27	4 0.10	+ 4 51.8	1.743	2.581	13.9	19.5	12 27	3 53.55	+19 1.3	1.706	2.573	12.7	22.1
1 6	3 56.97	+ 5 3.5	1.845	2.597	16.7	19.7	1 6	3 48.44	+19 11.9	1.790	2.568	16.1	22.3
327538	2006 <i>BE</i> ₁₆₉		11 28.9 215°51	1°4/29.7	18		296770	2009 <i>UA</i> ₈₄		11 29.0 101°31	0°4/29.2	18	
10 28	4 44.72	+26 56.3	2.636	3.467	10.3	21.9	10 28	4 46.03	+22 2.8	2.280	3.123	11.3	20.2
11 7	4 38.66	+26 55.5	2.552	3.462	7.6	21.7	11 7	4 39.73	+22 21.0	2.212	3.129	8.2	20.0
11 17	4 30.92	+26 47.8	2.495	3.456	4.5	21.5	11 17	4 31.58	+22 35.9	2.168	3.134	4.6	19.8
11 27	4 22.18	+26 33.0	2.467	3.449	1.7	21.3	11 27	4 22.33	+22 47.0	2.154	3.140	0.9	19.5
12 7	4 13.28	+26 12.2	2.469	3.443	2.9	21.3	12 7	4 12.94	+22 54.8	2.171	3.146	3.0	19.7
12 17	4 5.05	+25 47.4	2.502	3.436	6.0	21.5	12 17	4 4.35	+23 0.5	2.217	3.152	6.6	19.9
12 27	3 58.26	+25 21.8	2.563	3.429	9.0	21.7	12 27	3 57.39	+23 6.1	2.290	3.157	9.9	20.1
1 6	3 53.44	+24 58.3	2.648	3.422	11.6	21.9	1 6	3 52.61	+23 13.8	2.388	3.163	12.6	20.3
267154	2000 <i>GM</i> ₆₉		11 28.9 165°62	0°3/29.2	18		278780	2008 <i>SN</i> ₁₇₁		11 29.0 322°01	5°6/26.1	17	
10 28	4 42.83	+23 15.6	3.338	4.169	8.4	22.3	10 28	4 41.32	+ 8 20.5	2.018	2.871	12.2	20.1
11 7	4 36.92	+23 8.3	3.263	4.175	6.0	22.1	11 7	4 36.46	+ 7 9.4	1.946	2.860	9.3	19.9
11 17	4 29.79	+22 57.1	3.215	4.180	3.4	22.0	11 17	4 29.79	+ 6 2.4	1.899	2.850	6.7	19.8
11 27	4 21.98	+22 42.5	3.198	4.184	0.7	21.8	11 27	4 22.05	+ 5 4.8	1.879	2.840	5.6	19.7
12 7	4 14.11	+22 25.7	3.213	4.188	2.2	21.9	12 7	4 14.14	+ 4 21.0	1.887	2.830	7.1	19.8
12 17	4 6.78	+22 8.0	3.260	4.192	4.9	22.1	12 17	4 6.98	+ 3 54.3	1.922	2.821	9.9	19.9
12 27	4 0.55	+21 51.6	3.335	4.195	7.3	22.3	12 27	4 1.39	+ 3 45.9	1.982	2.812	12.9	20.1
1 6	3 55.83	+21 38.0	3.436	4.197	9.4	22.4	1 6	3 57.93	+ 3 54.8	2.063	2.803	15.5	20.3
421780	2014 <i>QC</i> ₂₂		11 28.9 85°48	6°1/26.1	18		474256	2001 <i>SK</i> ₂₅₅		11 29.0 71°34	6°1/30.7	18	
10 28	4 42.98	+ 4 55.5	2.141	2.982	12.0	21.1	10 28	4 56.02	+34 8.1	1.453	2.282	17.3	21.0
11 7	4 37.36	+ 3 50.2	2.091	2.995	9.3	20.9	11 7	4 47.91	+35 12.6	1.408	2.306	13.4	20.8
11 17	4 30.13	+ 2 53.0	2.067	3.007	7.0	20.8	11 17	4 36.49	+35 59.9	1.385	2.329	9.3	20.7
11 27	4 22.04	+ 2 8.5	2.070	3.020	6.1	20.8	11 27	4 23.18	+36 24.3	1.387	2.353	6.4	20.6
12 7	4 13.98	+ 1 40.2	2.102	3.032	7.3	20.9	12 7	4 9.84	+36 24.9	1.416	2.376	6.9	20.7
12 17	4 6.75	+ 1 29.7	2.160	3.044	9.7	21.0	12 17	3 58.29	+36 5.7	1.472	2.400	10.1	20.9
12 27	4 1.08	+ 1 36.6	2.244	3.057	12.1	21.2	12 27	3 49.90	+35 34.5	1.553	2.423	13.6	21.2
1 6	3 57.39	+ 1 59.2	2.348	3.069	14.3	21.4	1 6	3 45.28	+34 59.8	1.654	2.445	16.7	21.4
29604	1998 <i>QX</i> ₅		11 28.9 130°85	4°2/30.7	18		112818	2002 <i>QT</i> ₅		11 29.0 100°6			