

EPHEMERIDES

11 22.9

11 23.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
412338	2013 <i>LQ</i> ₂		11 22.9 84°84'	2.5°/21.3	14 C		487821	2015 <i>TF</i> ₂₇		11 23.0 70°39'	4.7°/25.4	18 m	
10 18	4 19.96	+15 30.1	2.370	3.186	11.9	21.6	10 18	4 25.03	+33 29.0	1.877	2.665	15.7	21.1
10 28	4 14.69	+14 29.3	2.313	3.210	9.0	21.5	10 28	4 19.57	+33 51.9	1.808	2.676	12.6	20.9
11 7	4 7.75	+13 26.1	2.280	3.233	5.8	21.3	11 7	4 11.39	+33 59.9	1.760	2.688	9.2	20.7
11 17	3 59.80	+12 23.7	2.277	3.256	3.0	21.2	11 17	4 1.34	+33 50.4	1.736	2.699	6.0	20.5
11 27	3 51.61	+11 26.1	2.304	3.278	3.2	21.2	11 27	3 50.67	+33 23.2	1.741	2.711	4.7	20.5
12 7	3 44.02	+10 37.1	2.361	3.300	6.1	21.4	12 7	3 40.75	+32 41.6	1.773	2.723	6.9	20.6
12 17	3 37.68	+9 59.4	2.446	3.322	9.0	21.7	12 17	3 32.72	+31 51.7	1.833	2.734	10.1	20.9
12 27	3 33.11	+9 34.3	2.556	3.344	11.6	21.9	12 27	3 27.40	+31 0.2	1.916	2.746	13.2	21.1
401656	2013 <i>GR</i> ₁₀₉		11 22.9 133°68'	3.6°/21.3	18		493354	2014 <i>WE</i> ₂₁		11 23.0 177°79'	1.5°/23.9	17	
10 18	4 20.88	+9 56.7	2.236	3.053	12.5	21.0	10 18	4 19.64	+26 27.5	2.551	3.349	11.7	21.6
10 28	4 15.66	+9 34.4	2.164	3.058	9.6	20.8	10 28	4 14.73	+26 20.4	2.466	3.349	9.1	21.4
11 7	4 8.55	+9 14.5	2.116	3.063	6.5	20.7	11 7	4 7.99	+26 5.2	2.404	3.349	6.0	21.2
11 17	4 0.16	+8 59.5	2.095	3.068	4.0	20.5	11 17	4 0.00	+25 41.6	2.371	3.350	2.8	21.0
11 27	3 51.34	+8 52.0	2.104	3.073	4.2	20.5	11 27	3 51.55	+25 11.1	2.367	3.350	1.8	20.9
12 7	3 42.98	+8 53.9	2.142	3.077	6.9	20.7	12 7	3 43.51	+24 36.3	2.393	3.350	4.8	21.1
12 17	3 35.89	+9 6.3	2.208	3.082	9.9	20.9	12 17	3 36.67	+24 0.5	2.449	3.350	7.9	21.3
12 27	3 30.67	+9 29.3	2.297	3.086	12.7	21.1	12 27	3 31.64	+23 27.5	2.530	3.349	10.7	21.5
400669	2009 <i>LO</i> ₁		11 22.9 181°73'	3.7°/20.4	18		52521	1996 <i>JU</i> ₃		11 23.0 282°75'	1.7°/22.4	18	
10 18	4 20.06	+9 57.5	2.685	3.495	10.9	22.3	10 18	4 23.32	+17 20.5	1.571	2.403	16.2	19.2
10 28	4 14.73	+9 1.4	2.606	3.496	8.4	22.2	10 28	4 18.64	+17 6.7	1.485	2.390	12.5	18.9
11 7	4 7.83	+8 5.7	2.553	3.496	5.8	22.0	11 7	4 11.07	+16 49.0	1.421	2.378	8.1	18.6
11 17	3 59.87	+7 13.7	2.528	3.496	3.9	21.9	11 17	4 1.33	+16 29.0	1.382	2.365	3.3	18.3
11 27	3 51.55	+6 28.9	2.534	3.495	4.3	21.9	11 27	3 50.63	+16 9.7	1.370	2.352	3.0	18.2
12 7	3 43.61	+5 54.5	2.571	3.494	6.6	22.1	12 7	3 40.41	+15 54.6	1.385	2.339	7.8	18.5
12 17	3 36.72	+5 32.3	2.636	3.492	9.2	22.2	12 17	3 32.00	+15 47.4	1.426	2.327	12.5	18.7
12 27	3 31.41	+5 23.2	2.725	3.489	11.5	22.4	12 27	3 26.37	+15 50.8	1.490	2.314	16.6	19.0
77675	2001 <i>MS</i> ₂₁		11 22.9 228°29'	4.3°/21.4	18		44206	1998 <i>OM</i>		11 23.0 126°86'	0.2°/23.1	18	
10 18	4 23.16	+7 57.1	2.101	2.916	13.3	20.2	10 18	4 23.75	+24 17.2	2.055	2.862	13.9	18.9
10 28	4 17.62	+7 43.0	2.017	2.909	10.4	20.0	10 28	4 18.01	+23 31.6	1.983	2.874	10.6	18.7
11 7	4 9.95	+7 33.1	1.958	2.902	7.2	19.8	11 7	4 10.10	+22 35.8	1.935	2.886	6.8	18.5
11 17	4 0.75	+7 30.3	1.925	2.895	4.6	19.6	11 17	4 0.78	+21 31.8	1.914	2.897	2.6	18.3
11 27	3 50.93	+7 37.1	1.922	2.888	4.9	19.6	11 27	3 51.08	+20 23.1	1.923	2.908	1.7	18.3
12 7	3 41.53	+7 55.0	1.947	2.880	7.7	19.8	12 7	3 42.07	+19 15.1	1.963	2.918	5.8	18.6
12 17	3 33.44	+8 24.5	2.000	2.872	10.9	20.0	12 17	3 34.65	+18 12.9	2.031	2.928	9.5	18.8
12 27	3 27.42	+9 5.3	2.078	2.864	13.9	20.2	12 27	3 29.45	+17 21.0	2.125	2.938	12.7	19.0
125572	2001 <i>XV</i> ₁₉		11 22.9 343°72'	5.5°/25.3	18		14519	Ural		11 23.0 203°00'	0.5°/22.7	18	
10 18	4 22.93	+32 55.0	1.390	2.204	18.9	19.4	10 18	4 19.04	+19 20.9	2.854	3.661	10.4	19.2
10 28	4 19.01	+33 19.2	1.313	2.198	15.3	19.1	10 28	4 14.03	+19 7.8	2.765	3.657	7.9	19.0
11 7	4 11.59	+33 25.5	1.256	2.193	11.1	18.9	11 7	4 7.45	+18 51.0	2.701	3.653	5.0	18.8
11 17	4 1.53	+33 9.8	1.220	2.188	7.1	18.7	11 17	3 59.79	+18 31.5	2.666	3.649	1.9	18.6
11 27	3 50.40	+32 31.2	1.210	2.184	5.6	18.6	11 27	3 51.71	+18 10.9	2.661	3.645	1.5	18.5
12 7	3 40.05	+31 34.5	1.225	2.181	8.4	18.7	12 7	3 43.94	+17 51.3	2.688	3.640	4.6	18.8
12 17	3 32.07	+30 27.9	1.265	2.178	12.7	19.0	12 17	3 37.17	+17 34.8	2.743	3.635	7.6	18.9
12 27	3 27.53	+29 21.4	1.327	2.176	16.8	19.2	12 27	3 31.93	+17 23.5	2.825	3.629	10.1	19.1
126578	Suhhosoo		11 22.9 29°16'	0.6°/23.3	18		480200	2015 <i>FR</i> ₃₄₄		11 23.0 64°26'	7.1°/25.7	18	
10 18	4 20.57	+22 56.1	1.832	2.654	14.7	19.7	10 18	4 36.10	+35 34.1	1.545	2.322	19.0	19.7
10 28	4 15.98	+22 48.4	1.761	2.660	11.2	19.4	10 28	4 28.43	+36 51.7	1.502	2.358	15.4	19.6
11 7	4 9.01	+22 33.0	1.712	2.666	7.2	19.2	11 7	4 17.19	+37 50.7	1.479	2.394	11.6	19.5
11 17	4 0.39	+22 10.4	1.689	2.672	2.9	19.0	11 17	4 3.55	+38 24.4	1.481	2.430	8.3	19.4
11 27	3 51.21	+21 42.6	1.694	2.679	1.8	18.9	11 27	3 49.30	+38 30.3	1.509	2.466	7.1	19.4
12 7	3 42.66	+21 13.3	1.728	2.686	6.1	19.2	12 7	3 36.36	+38 11.7	1.565	2.502	8.8	19.6
12 17	3 35.72	+20 46.4	1.788	2.694	10.1	19.5	12 17	3 26.19	+37 36.6	1.646	2.536	11.8	19.8
12 27	3 31.15	+20 25.7	1.873	2.701	13.5	19.7	12 27	3 19.63	+36 54.3	1.751	2.571	14.7	20.1
16917	1998 <i>FB</i> ₂₉		11 22.9 96°61'	0.9°/22.6	18 R		315837	2008 <i>GZ</i> ₁₄₁		11 23.0 209°63'	3.8°/21.5	18	
10 18	4 20.90	+19 18.2	2.063	2.882	13.4	18.0	10 18	4 22.75	+7 59.4	2.346	3.155	12.3	20.6
10 28	4 15.91	+18 57.0	1.990	2.888	10.1	17.8	10 28	4 17.09	+7 52.6	2.263	3.152	9.5	20.4
11 7	4 8.81	+18 30.9	1.939	2.894	6.4	17.6	11 7	4 9.52	+7 49.9	2.204	3.148	6.6	20.2
11 17	4 0.29	+18 1.4	1.916	2.900	2.5	17.4	11 17	4 0.61	+7 53.7	2.173	3.143	4.2	20.0
11 27	3 51.29	+17 31.2	1.922	2.905	2.0	17.4	11 27	3 51.17	+8 5.7	2.172	3.139	4.3	20.1
12 7	3 42.83	+17 3.5	1.958	2.911	6.0	17.6	12 7	3 42.10	+8 27.1	2.201	3.134	6.9	20.2
12 17	3 35.79	+16 41.5	2.021	2.917	9.6	17.9	12 17	3 34.22	+8 58.3	2.258	3.129	9.9	20.4
12 27	3 30.85	+16 27.8	2.108	2.922	12.8	18.1	12 27	3 28.19	+9 38.9	2.340	3.123	12.6	20.6
210869	2001 <i>RE</i> ₁₁₂		11 23.0 29°18'	3.6°/21.5	18		260473	2005 <i>BH</i> ₂₈		11 23.0 203°53'	8.4°/16.6	18	
10 18	4 20.05	+13 12.2	1.615	2.453	15.6	20.4	10 18	4 17.18	-8 39.4	2.772	3.547	11.5	20.3
10 28	4 15.68	+12 35.4	1.553	2.460	11.9	20.2	10 28	4 12.56	-9 53.3	2.709	3.544	10.0	20.2
11 7	4 8.84	+11 58.2	1.512	2.467	7.8	20.0	11 7	4 6.48	-10 55.9	2.670	3.541	8.8	20.1
11 17	4 0.34	+11 24.4	1.497	2.475	4.2	19.8	11 17	3 59.41	-11 42.3	2.657	3.537	8.4	20.0
11 27	3 51.30	+10 58.1	1.509	2.484	4.5	19.9	11 27	3 51.99	-12 8.6	2.670	3.534	8.9	20.1
12 7	3 42.94	+10 42.9	1.548	2.493	8.1	20.1	12 7	3 44.92	-12 13.1	2.708	3.530	10.1	20.2
12 17	3 36.30	+10 41.1	1.612	2.502	12.0	20.4	12 17	3 38.80	-11 56.1	2.770	3.526	11.6	20.3
12 27	3 32.09	+10 53.2	1.699	2.512	15.4	20.6	12 27	3 34.13	-11 19.7	2.853	3.522	13.1	20.4
523460	2017 <i>FU</i> ₈₄		11 23.0 67°17'	3.0°/21.8	18		98757	2000 <i>YZ</i> ₆₁		11 23.0 268°68'	1.6°/23.8		

EPHEMERIDES

11 23.0

11 23.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
409174	2003 <i>UX</i> ₂₄₀		11 23.0 35°37'	4.1/24.7	18		156663	2002 <i>JQ</i> ₉₄		11 23.0 208°28'	0.4/22.8	18	
10 18	4 23.80	+30 2.9	1.851	2.652	15.4	20.2	10 18	4 19.76	+21 48.5	2.543	3.350	11.5	21.0
10 28	4 18.62	+30 47.1	1.787	2.666	12.2	20.0	10 28	4 14.77	+21 11.2	2.454	3.346	8.8	20.8
11 7	4 10.81	+31 20.2	1.745	2.681	8.6	19.8	11 7	4 8.01	+20 27.0	2.390	3.342	5.6	20.6
11 17	4 1.15	+31 39.1	1.728	2.696	5.3	19.7	11 17	4 0.05	+19 37.3	2.355	3.338	2.1	20.3
11 27	3 50.85	+31 42.9	1.738	2.712	4.2	19.6	11 27	3 51.66	+18 45.1	2.349	3.333	1.6	20.3
12 7	3 41.23	+31 33.7	1.777	2.729	6.6	19.8	12 7	3 43.67	+17 53.8	2.375	3.328	5.1	20.5
12 17	3 33.42	+31 15.7	1.843	2.746	10.0	20.1	12 17	3 36.85	+17 7.1	2.430	3.323	8.3	20.7
12 27	3 28.22	+30 54.4	1.932	2.763	13.1	20.3	12 27	3 31.76	+16 28.3	2.510	3.317	11.2	20.9
445724	2011 <i>UA</i> ₂₉₇		11 23.0 340°95'	2°0/22.1	17		83295	2001 <i>RP</i> ₁₀₀		11 23.0 144°84'	2°4/24.0	18	
10 18	4 18.98	+18 3.4	1.543	2.383	16.0	21.3	10 18	4 27.79	+26 56.8	1.826	2.627	15.5	20.6
10 28	4 15.23	+17 24.6	1.466	2.376	12.3	21.0	10 28	4 21.64	+27 12.0	1.752	2.636	12.1	20.4
11 7	4 8.80	+16 39.5	1.410	2.369	7.9	20.8	11 7	4 12.75	+27 17.0	1.699	2.643	8.2	20.1
11 17	4 0.43	+15 51.2	1.379	2.363	3.3	20.5	11 17	4 1.93	+27 10.0	1.673	2.651	4.1	19.9
11 27	3 51.32	+15 4.3	1.376	2.357	3.2	20.5	11 27	3 50.42	+26 51.5	1.676	2.657	2.8	19.8
12 7	3 42.80	+14 24.2	1.398	2.352	7.8	20.7	12 7	3 39.61	+26 24.4	1.708	2.663	6.4	20.1
12 17	3 36.04	+13 55.3	1.446	2.348	12.3	21.0	12 17	3 30.67	+25 53.7	1.767	2.669	10.4	20.3
12 27	3 31.90	+13 40.8	1.516	2.344	16.2	21.2	12 27	3 24.43	+25 24.9	1.850	2.674	13.9	20.6
265146	2003 <i>UY</i> ₃₇₃		11 23.0 300°53'	1°6/22.1	17		371486	2006 <i>TT</i> ₆₆		11 23.0 348°53'	1°9/23.8	18	R
10 18	4 18.49	+18 27.1	2.145	2.968	12.8	20.4	10 18	4 20.27	+26 16.3	1.141	1.988	20.0	19.9
10 28	4 14.12	+17 42.8	2.059	2.960	9.7	20.2	10 28	4 17.30	+26 4.6	1.071	1.981	15.7	19.6
11 7	4 7.74	+16 52.8	1.996	2.952	6.2	19.9	11 7	4 10.66	+25 36.8	1.019	1.976	10.4	19.3
11 17	3 59.96	+15 59.7	1.961	2.944	2.6	19.7	11 17	4 1.29	+24 52.5	0.989	1.971	4.7	19.0
11 27	3 51.65	+15 7.0	1.955	2.936	2.6	19.7	11 27	3 50.84	+23 54.8	0.983	1.967	2.8	18.8
12 7	3 43.77	+14 19.2	1.979	2.928	6.2	19.9	12 7	3 41.25	+22 51.3	1.001	1.965	8.4	19.2
12 17	3 37.18	+13 39.8	2.029	2.921	9.8	20.1	12 17	3 34.17	+21 50.9	1.043	1.963	14.0	19.5
12 27	3 32.55	+13 12.0	2.105	2.913	13.0	20.3	12 27	3 30.67	+21 1.8	1.104	1.962	18.8	19.7
235776	2004 <i>VR</i> ₄₂		11 23.0 104°93'	0°1/22.9	18		155839	2000 <i>YZ</i> ₅₀		11 23.0 0°71'	6°2/20.6	18	
10 18	4 24.71	+20 25.5	1.718	2.540	15.5	20.2	10 18	4 19.61	+ 4 38.0	1.830	2.657	14.5	19.1
10 28	4 19.28	+20 25.7	1.647	2.546	11.9	19.9	10 28	4 15.14	+ 4 3.9	1.762	2.656	11.5	18.9
11 7	4 11.22	+20 20.3	1.599	2.553	7.6	19.7	11 7	4 8.47	+ 3 36.8	1.716	2.655	8.5	18.7
11 17	4 1.31	+20 9.8	1.576	2.559	2.9	19.4	11 17	4 0.27	+ 3 21.2	1.695	2.655	6.4	18.6
11 27	3 50.76	+19 55.9	1.581	2.565	2.0	19.4	11 27	3 51.53	+ 3 20.9	1.701	2.656	6.7	18.6
12 7	3 40.88	+19 41.5	1.615	2.572	6.6	19.7	12 7	3 43.30	+ 3 37.8	1.734	2.656	9.3	18.7
12 17	3 32.79	+19 30.2	1.676	2.578	10.9	20.0	12 17	3 36.53	+ 4 11.6	1.793	2.658	12.3	18.9
12 27	3 27.30	+19 25.2	1.760	2.583	14.5	20.2	12 27	3 31.92	+ 5 0.7	1.873	2.659	15.2	19.1
175107	2004 <i>KB</i> ₁₆		11 23.0 251°70'	4°9/20.5	17		312761	2010 <i>TK</i> ₁₅₇		11 23.0 55°87'	0°1/23.1	18	
10 18	4 20.81	+ 6 59.6	2.278	3.093	12.4	20.5	10 18	4 22.02	+21 9.1	1.887	2.707	14.4	21.0
10 28	4 15.77	+ 6 19.3	2.187	3.077	9.8	20.3	10 28	4 17.03	+21 6.4	1.816	2.715	11.0	20.8
11 7	4 8.77	+ 5 42.0	2.119	3.060	7.0	20.1	11 7	4 9.69	+20 57.9	1.768	2.722	7.0	20.5
11 17	4 0.37	+ 5 11.4	2.079	3.043	5.0	19.9	11 17	4 0.74	+20 44.0	1.746	2.730	2.7	20.3
11 27	3 51.36	+ 4 51.2	2.068	3.026	5.5	19.9	11 27	3 51.23	+20 26.6	1.753	2.737	1.8	20.2
12 7	3 42.67	+ 4 44.2	2.086	3.008	8.0	20.0	12 7	3 42.33	+20 8.6	1.788	2.745	6.1	20.5
12 17	3 35.13	+ 4 51.6	2.131	2.990	10.9	20.2	12 17	3 35.01	+19 53.3	1.851	2.753	10.0	20.8
12 27	3 29.44	+ 5 13.6	2.199	2.971	13.7	20.4	12 27	3 30.01	+19 43.8	1.937	2.761	13.3	21.0
217172	2002 <i>QG</i> ₁₀₈		11 23.0 359°80'	1°0/22.7	18		387276	2012 <i>UV</i> ₁₂₂		11 23.0 351°69'	1°3/23.8	15	
10 18	4 17.55	+20 4.5	1.001	1.869	20.6	19.8	10 18	4 16.04	+25 23.8	2.244	3.058	12.6	20.5
10 28	4 15.33	+19 47.0	0.941	1.865	15.8	19.5	10 28	4 12.33	+25 18.1	2.158	3.051	9.7	20.3
11 7	4 9.43	+19 20.5	0.898	1.862	10.2	19.2	11 7	4 6.65	+25 4.2	2.095	3.045	6.4	20.1
11 17	4 0.79	+18 47.5	0.877	1.861	3.9	18.8	11 17	3 59.58	+24 42.3	2.059	3.039	2.9	19.9
11 27	3 51.11	+18 12.5	0.878	1.862	3.0	18.8	11 27	3 51.98	+24 13.7	2.051	3.035	1.8	19.8
12 7	3 42.36	+17 42.1	0.902	1.865	9.3	19.1	12 7	3 44.77	+23 41.5	2.072	3.030	5.2	20.0
12 17	3 36.16	+17 22.1	0.948	1.869	15.0	19.5	12 17	3 38.81	+23 9.2	2.121	3.027	8.7	20.2
12 27	3 33.57	+17 16.7	1.012	1.874	19.8	19.8	12 27	3 34.77	+22 40.5	2.194	3.025	11.7	20.4
447781	2007 <i>RV</i> ₁₈₈		11 23.0 53°30'	7°3/26.0	18		333236	2012 <i>HE</i> ₅₀		11 23.0 239°97'	1°4/22.5	17	
10 18	4 28.23	+37 10.6	1.660	2.439	17.8	21.2	10 18	4 23.10	+14 39.0	2.351	3.162	12.2	20.5
10 28	4 22.72	+38 11.7	1.591	2.447	14.7	21.0	10 28	4 17.47	+14 55.5	2.265	3.158	9.3	20.3
11 7	4 13.81	+38 55.6	1.542	2.455	11.4	20.8	11 7	4 9.85	+15 12.7	2.203	3.155	6.0	20.1
11 17	4 2.41	+39 16.3	1.517	2.463	8.5	20.6	11 17	4 0.81	+15 31.0	2.169	3.151	2.6	19.8
11 27	3 50.04	+39 10.9	1.517	2.472	7.3	20.6	11 27	3 51.17	+15 51.1	2.165	3.147	2.2	19.8
12 7	3 38.48	+38 41.7	1.544	2.481	8.9	20.7	12 7	3 41.88	+16 13.6	2.192	3.143	5.7	20.0
12 17	3 29.23	+37 55.3	1.596	2.490	11.8	20.9	12 17	3 33.79	+16 39.6	2.248	3.139	9.1	20.3
12 27	3 23.32	+37 1.2	1.671	2.499	14.9	21.1	12 27	3 27.60	+17 10.0	2.330	3.134	12.0	20.4
358533	2007 <i>TP</i> ₃₅		11 23.0 357°06'	6°8/20.1	17		133469	2003 <i>SO</i> ₂₄₇		11 23.0 347°46'	0°2/22.9	17	
10 18	4 11.43	+11 29.1	1.031	1.909	19.3	19.6	10 18	4 18.78	+20 21.0	1.797	2.626	14.6	19.4
10 28	4 10.34	+10 7.1	0.972	1.901	15.0	19.4	10 28	4 14.81	+20 16.9	1.716	2.620	11.2	19.2
11 7	4 6.06	+ 8 43.6	0.933	1.894	10.4	19.1	11 7	4 8.44	+20 7.5	1.657	2.614	7.2	18.9
11 17	3 59.46	+ 7 27.9	0.914	1.890	7.1	18.9	11 17	4 0.32	+19 53.5	1.624	2.608	2.7	18.6
11 27	3 52.01	+ 6 30.1	0.918	1.888	8.0	19.0	11 27	3 51.50	+19 36.8	1.619	2.603	1.9	18.6
12 7	3 45.34	+ 5 57.6	0.944	1.888	12.1	19.2	12 7	3 43.16	+19 20.4	1.641	2.599	6.4	18.8
12 17	3 40.82	+ 5 53.5	0.990	1.891	16.6	19.5	12 17	3 36.36	+19 7.8	1.690	2.596	10.5	19.1
12 27	3 39.38	+ 6 16.6	1.054	1.896	20.7	19.7	12 27	3 31.90	+19 1.9	1.762	2.593	14.1	19.3
233329	2006 <i>BC</i> ₂₆₆		11 23.0 286°70'	3°6/20.8	18		196048</						

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11 23.0

11 23.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
378146	2006 VZ ₈₉		11 23.0 328°97	0°7/23.4	18		382745	2003 CC		11 23.0 178°47	2°2/22.4	16	
10 18	4 23.48	+25 8.3	1.433	2.261	17.7	20.6	10 18	4 42.41	+18 14.7	1.158	1.978	21.6	23.1
10 28	4 18.95	+24 32.3	1.357	2.259	13.7	20.3	10 28	4 34.09	+17 42.6	1.087	1.984	16.7	22.9
11 7	4 11.31	+23 42.1	1.303	2.258	8.9	20.0	11 7	4 21.40	+17 2.4	1.035	1.989	10.8	22.5
11 17	4 1.45	+22 38.7	1.273	2.256	3.6	19.7	11 17	4 5.45	+16 15.9	1.008	1.991	4.4	22.2
11 27	3 50.80	+21 26.7	1.270	2.254	2.1	19.6	11 27	3 48.30	+15 27.8	1.008	1.990	3.9	22.2
12 7	3 40.96	+20 13.2	1.293	2.253	7.5	20.0	12 7	3 32.33	+14 45.3	1.036	1.987	10.3	22.5
12 17	3 33.25	+19 6.2	1.343	2.252	12.5	20.2	12 17	3 19.50	+14 15.4	1.089	1.982	16.2	22.8
12 27	3 28.58	+18 12.2	1.414	2.250	16.7	20.5	12 27	3 10.98	+14 2.9	1.162	1.974	21.1	23.1
257318	2009 HD ₉₂		11 23.0 38°29	0°4/23.1	18		359302	2009 HM ₈₄		11 23.0 200°65	2°1/22.0	18	
10 18	4 28.04	+18 45.3	1.126	1.972	20.4	19.6	10 18	4 21.99	+14 46.7	2.214	3.031	12.7	21.9
10 28	4 22.98	+19 29.3	1.071	1.982	15.6	19.4	10 28	4 16.70	+14 27.9	2.132	3.028	9.7	21.7
11 7	4 14.15	+20 11.2	1.035	1.994	10.0	19.1	11 7	4 9.39	+14 7.9	2.073	3.025	6.3	21.5
11 17	4 2.59	+20 48.6	1.022	2.006	3.9	18.8	11 17	4 0.67	+13 48.4	2.042	3.022	2.9	21.3
11 27	3 50.08	+21 20.5	1.034	2.018	2.5	18.8	11 27	3 51.42	+13 32.0	2.040	3.019	2.9	21.2
12 7	3 38.63	+21 47.6	1.071	2.032	8.5	19.2	12 7	3 42.58	+13 21.0	2.069	3.015	6.3	21.5
12 17	3 29.87	+22 12.7	1.132	2.045	13.8	19.5	12 17	3 35.03	+13 17.5	2.125	3.011	9.7	21.7
12 27	3 24.83	+22 39.5	1.214	2.060	18.2	19.8	12 27	3 29.44	+13 23.1	2.206	3.007	12.7	21.9
68650	2002 CP ₅₉		11 23.0 133°11	5°1/20.4	18		72009	2000 XF ₈		11 23.0 30°31	6°6/25.3	18	
10 18	4 23.09	+ 6 49.0	2.179	2.991	13.0	20.6	10 18	4 25.69	+32 20.1	1.041	1.875	22.5	18.5
10 28	4 17.26	+ 5 55.2	2.119	3.006	10.1	20.5	10 28	4 21.83	+33 11.7	0.991	1.887	18.1	18.3
11 7	4 9.56	+ 5 5.3	2.082	3.021	7.3	20.3	11 7	4 13.70	+33 43.1	0.958	1.900	13.1	18.1
11 17	4 0.64	+ 4 23.5	2.073	3.035	5.3	20.2	11 17	4 2.49	+33 48.3	0.945	1.914	8.5	17.9
11 27	3 51.38	+ 3 53.5	2.094	3.048	5.7	20.3	11 27	3 50.29	+33 25.8	0.955	1.929	6.7	17.8
12 7	3 42.70	+ 3 38.2	2.143	3.060	8.1	20.5	12 7	3 39.41	+32 41.2	0.988	1.945	9.7	18.1
12 17	3 35.38	+ 3 38.3	2.220	3.072	10.8	20.6	12 17	3 31.68	+31 45.0	1.044	1.962	14.2	18.4
12 27	3 30.00	+ 3 53.4	2.319	3.083	13.3	20.8	12 27	3 28.08	+30 48.3	1.120	1.980	18.4	18.7
213619	2002 ZQ ₂₆		11 23.0 44°51	1°7/22.4	18		369141	2008 RL ₁₃₁		11 23.1 192°12	6°1/27.3	18	
10 18	4 22.27	+17 9.7	1.629	2.461	15.7	20.8	10 18	4 26.61	+43 39.0	3.085	3.793	11.8	21.3
10 28	4 17.46	+16 53.9	1.564	2.469	12.0	20.6	10 28	4 20.23	+44 17.9	2.992	3.791	10.1	21.1
11 7	4 10.08	+16 34.7	1.520	2.477	7.6	20.3	11 7	4 11.69	+44 42.8	2.922	3.789	8.3	21.0
11 17	4 0.93	+16 14.2	1.502	2.485	3.1	20.1	11 17	4 1.58	+44 50.6	2.877	3.786	6.7	20.9
11 27	3 51.18	+15 55.3	1.512	2.494	2.8	20.1	11 27	3 50.84	+44 39.6	2.860	3.783	6.1	20.8
12 7	3 42.14	+15 41.2	1.549	2.502	7.2	20.4	12 7	3 40.48	+44 10.8	2.871	3.779	6.7	20.9
12 17	3 34.87	+15 34.9	1.612	2.511	11.4	20.6	12 17	3 31.46	+43 27.6	2.911	3.775	8.2	21.0
12 27	3 30.16	+15 38.6	1.698	2.521	15.0	20.9	12 27	3 24.52	+42 35.3	2.977	3.770	10.0	21.1
296815	2009 VE ₁₁₄		11 23.0 337°98	0°8/23.3	18		492760	2014 QR ₁₇₀		11 23.1 48°00	4°4/20.7	18	
10 18	4 20.62	+22 53.3	1.246	2.092	18.8	20.6	10 18	4 18.66	+ 9 59.1	2.044	2.871	13.2	21.1
10 28	4 17.33	+22 52.7	1.170	2.081	14.6	20.4	10 28	4 14.17	+ 9 6.5	1.979	2.878	10.2	20.9
11 7	4 10.63	+22 42.3	1.113	2.072	9.5	20.0	11 7	4 7.75	+ 8 15.3	1.937	2.885	7.0	20.8
11 17	4 1.31	+22 21.6	1.079	2.063	3.9	19.7	11 17	4 0.03	+ 7 29.6	1.921	2.892	4.6	20.6
11 27	3 50.88	+21 53.1	1.070	2.055	2.4	19.6	11 27	3 51.90	+ 6 53.7	1.935	2.899	5.1	20.7
12 7	3 41.11	+21 21.4	1.086	2.047	8.2	19.9	12 7	3 44.29	+ 6 30.8	1.976	2.906	7.8	20.8
12 17	3 33.59	+20 52.8	1.125	2.041	13.6	20.2	12 17	3 38.01	+ 6 22.6	2.043	2.914	10.8	21.1
12 27	3 29.43	+20 33.1	1.185	2.036	18.2	20.5	12 27	3 33.67	+ 6 29.3	2.134	2.921	13.6	21.3
173708	2001 QS ₉₄		11 23.0 193°34	7°6/26.9	18		281706	2008 WO ₉₅		11 23.1 90°33	3°4/21.9	18	
10 18	4 29.57	+42 40.8	2.305	3.034	14.8	20.3	10 18	4 26.45	+11 26.6	1.751	2.572	15.3	19.6
10 28	4 23.23	+43 37.9	2.219	3.033	12.6	20.2	10 28	4 20.24	+11 14.4	1.696	2.594	11.7	19.4
11 7	4 13.97	+44 18.7	2.153	3.031	10.3	20.0	11 7	4 11.65	+11 4.4	1.664	2.615	7.7	19.2
11 17	4 2.52	+44 38.0	2.112	3.029	8.4	19.9	11 17	4 1.51	+10 59.1	1.658	2.636	4.1	19.1
11 27	3 50.13	+44 32.5	2.098	3.027	7.6	19.9	11 27	3 50.96	+11 0.8	1.682	2.656	4.2	19.1
12 7	3 38.25	+44 3.5	2.111	3.024	8.4	19.9	12 7	3 41.20	+11 11.3	1.733	2.676	7.6	19.4
12 17	3 28.21	+43 15.8	2.151	3.021	10.4	20.0	12 17	3 33.20	+11 31.3	1.812	2.696	11.2	19.6
12 27	3 20.97	+42 16.9	2.216	3.018	12.6	20.2	12 27	3 27.65	+12 1.0	1.914	2.716	14.4	19.9
477292	2009 SD ₁₈₅		11 23.0 305°54	4°8/24.8	18		245853	2006 LB ₂		11 23.1 55°88	6°3/21.4	18	
10 18	4 26.03	+31 4.1	1.476	2.286	18.2	21.3	10 18	4 25.11	+ 4 40.7	1.545	2.371	16.7	19.4
10 28	4 21.28	+31 36.7	1.396	2.280	14.6	21.0	10 28	4 19.37	+ 4 18.5	1.501	2.395	13.1	19.2
11 7	4 13.09	+31 54.7	1.336	2.274	10.5	20.8	11 7	4 11.13	+ 4 5.7	1.478	2.419	9.4	19.1
11 17	4 2.26	+31 54.1	1.299	2.269	6.4	20.5	11 17	4 1.30	+ 4 6.3	1.480	2.443	6.7	19.0
11 27	3 50.32	+31 33.3	1.288	2.264	5.0	20.4	11 27	3 51.12	+ 4 22.9	1.509	2.468	6.9	19.1
12 7	3 39.05	+30 55.7	1.304	2.259	8.1	20.6	12 7	3 41.84	+ 4 56.2	1.564	2.492	9.6	19.3
12 17	3 30.04	+30 8.1	1.344	2.254	12.4	20.8	12 17	3 34.45	+ 5 44.6	1.645	2.517	12.9	19.5
12 27	3 24.41	+29 19.3	1.407	2.249	16.4	21.1	12 27	3 29.63	+ 6 45.5	1.748	2.541	15.9	19.8
428571	2008 DF ₆		11 23.0 161°60	3°4/24.5	18		269872	2000 EB ₁₉₆		11 23.1 201°91	1°1/23.5	18	
10 18	4 28.06	+29 26.7	1.626	2.430	17.1	21.5	10 18	4 26.39	+24 8.9	1.971	2.775	14.4	22.1
10 28	4 22.29	+29 37.9	1.550	2.433	13.5	21.3	10 28	4 20.49	+24 8.5	1.883	2.772	11.2	21.9
11 7	4 13.41	+29 35.2	1.495	2.437	9.3	21.0	11 7	4 12.04	+23 59.9	1.819	2.767	7.3	21.6
11 17	4 2.29	+29 16.4	1.465	2.439	5.1	20.8	11 17	4 1.76	+23 42.5	1.781	2.762	3.1	21.4
11 27	3 50.55	+28 41.8	1.462	2.442	3.6	20.7	11 27	3 50.74	+23 17.4	1.773	2.756	1.9	21.3
12 7	3 39.18	+27 55.6	1.488	2.444	7.1	20.9	12 7	3 40.22	+22 47.8	1.794	2.750	6.1	21.5
12 17	3 30.14	+27 4.6	1.539	2.445	11.4	21.2	12 17	3 31.32	+22 18.0	1.843	2.743	10.1	21.8
12 27	3 24.16	+26 16.1	1.615	2.446	15.2	21.4	12 27	3 24.88	+21 52.5	1.917	2.736	13.7	22.0
86754	2000 GS ₆₇		11 23.0 55°49	1°2/22.7	18		97723	2000 GD ₁₃₇		11 23.1 248°75	5°2/19.7	18	
10 18													

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
178279	2194 T ₋₃		11 23.1 90°11	5°2/25.3	18		289686	2005 GZ ₁₆₂		11 23.1 354°35	10°5/16.3	18	
10 18	4 26.61	+33 50.3	2.030	2.808	15.0	20.1	10 18	4 18.73	- 1 9.7	1.663	2.487	15.8	20.0
10 28	4 20.83	+34 37.8	1.954	2.815	12.1	19.9	10 28	4 14.66	- 3 22.4	1.606	2.486	13.3	19.9
11 7	4 12.34	+35 12.5	1.900	2.821	9.0	19.8	11 7	4 8.27	- 5 25.7	1.572	2.485	11.2	19.8
11 17	4 1.89	+35 30.7	1.871	2.828	6.2	19.6	11 17	4 0.30	- 7 9.8	1.563	2.484	10.5	19.7
11 27	3 50.66	+35 30.6	1.870	2.834	5.2	19.6	11 27	3 51.80	- 8 25.6	1.579	2.483	11.4	19.8
12 7	3 40.00	+35 13.9	1.898	2.841	7.0	19.7	12 7	3 43.90	- 9 8.5	1.619	2.483	13.6	19.9
12 17	3 31.12	+34 45.2	1.952	2.847	10.0	19.9	12 17	3 37.55	- 9 18.2	1.680	2.483	16.0	20.1
12 27	3 24.87	+34 10.9	2.032	2.853	12.9	20.1	12 27	3 33.47	- 8 57.6	1.760	2.483	18.3	20.2
352305	2007 UF ₈		11 23.1 12°87	7°9/26.6	18		445157	2008 YW ₃₈		11 23.1 147°17	0°5/22.8	18	
10 18	4 24.93	+38 33.5	1.520	2.306	18.8	19.9	10 18	4 23.55	+19 41.6	1.824	2.645	14.8	20.6
10 28	4 20.53	+39 20.5	1.450	2.309	15.7	19.7	10 28	4 18.34	+19 33.2	1.748	2.647	11.3	20.4
11 7	4 12.61	+39 47.0	1.398	2.311	12.3	19.5	11 7	4 10.67	+19 19.8	1.695	2.649	7.2	20.2
11 17	4 2.08	+39 47.3	1.368	2.315	9.2	19.3	11 17	4 1.25	+19 2.2	1.667	2.651	2.8	19.9
11 27	3 50.55	+39 19.0	1.363	2.319	7.9	19.3	11 27	3 51.18	+18 42.5	1.668	2.652	2.0	19.9
12 7	3 39.89	+38 25.7	1.383	2.324	9.4	19.4	12 7	3 41.69	+18 23.8	1.698	2.654	6.5	20.2
12 17	3 31.66	+37 15.5	1.428	2.329	12.4	19.6	12 17	3 33.83	+18 9.5	1.755	2.655	10.6	20.4
12 27	3 26.90	+35 59.1	1.495	2.335	15.7	19.8	12 27	3 28.41	+18 2.6	1.836	2.656	14.1	20.6
519486	2012 DF ₁₀₂		11 23.1 166°07	1°4/22.4	18		271096	2003 QH ₃₁		11 23.1 19°39	6°0/20.1	18	
10 18	4 21.73	+15 47.3	2.379	3.192	12.0	21.5	10 18	4 16.88	+ 8 52.0	1.581	2.425	15.5	19.8
10 28	4 16.38	+15 47.2	2.299	3.194	9.1	21.3	10 28	4 13.29	+ 7 38.3	1.527	2.434	12.1	19.6
11 7	4 9.14	+15 46.2	2.243	3.195	5.9	21.1	11 7	4 7.38	+ 6 27.6	1.496	2.445	8.5	19.4
11 17	4 0.59	+15 45.1	2.215	3.197	2.5	20.9	11 17	3 59.94	+ 5 26.1	1.489	2.456	6.1	19.3
11 27	3 51.55	+15 45.3	2.217	3.198	2.2	20.9	11 27	3 52.06	+ 4 39.9	1.509	2.469	6.8	19.4
12 7	3 42.90	+15 48.4	2.249	3.199	5.6	21.1	12 7	3 44.87	+ 4 13.1	1.554	2.482	9.7	19.6
12 17	3 35.46	+15 56.0	2.309	3.200	8.8	21.3	12 17	3 39.31	+ 4 7.3	1.624	2.496	13.0	19.8
12 27	3 29.86	+16 9.5	2.396	3.200	11.7	21.5	12 27	3 36.03	+ 4 21.3	1.715	2.511	16.0	20.0
222890	2002 GB ₁₁₁		11 23.1 58°05	1°9/22.2	18		12689	1988 RO ₂		11 23.1 39°05	5°1/25.9	18	
10 18	4 21.58	+15 16.4	1.979	2.802	13.7	19.4	10 18	4 23.20	+35 23.3	1.971	2.752	15.3	17.8
10 28	4 16.45	+15 6.9	1.917	2.817	10.4	19.2	10 28	4 18.22	+35 43.2	1.898	2.759	12.4	17.6
11 7	4 9.23	+14 56.4	1.879	2.833	6.6	19.0	11 7	4 10.63	+35 47.3	1.845	2.767	9.2	17.5
11 17	4 0.61	+14 46.5	1.868	2.849	2.9	18.8	11 17	4 1.23	+35 33.1	1.818	2.775	6.3	17.3
11 27	3 51.58	+14 39.4	1.885	2.866	2.8	18.9	11 27	3 51.21	+35 0.5	1.818	2.784	5.1	17.2
12 7	3 43.15	+14 37.3	1.932	2.882	6.3	19.1	12 7	3 41.87	+34 12.6	1.845	2.792	6.9	17.4
12 17	3 36.20	+14 41.8	2.005	2.898	9.8	19.4	12 17	3 34.32	+33 15.5	1.900	2.801	9.8	17.6
12 27	3 31.36	+14 54.2	2.103	2.915	12.9	19.6	12 27	3 29.34	+32 16.0	1.979	2.810	12.8	17.8
50499	2000 DH ₉₆		11 23.1 113°20	1°6/23.8	18		273287	2006 RE ₈₆		11 23.1 340°08	1°9/22.4	18	
10 18	4 24.38	+25 51.4	2.012	2.816	14.2	19.1	10 18	4 19.76	+18 24.6	1.131	1.990	19.4	20.8
10 28	4 18.74	+25 49.2	1.941	2.828	11.0	18.9	10 28	4 16.84	+17 58.3	1.060	1.979	15.0	20.5
11 7	4 10.77	+25 37.6	1.893	2.839	7.3	18.7	11 7	4 10.41	+17 24.8	1.008	1.970	9.7	20.2
11 17	4 1.23	+25 16.3	1.871	2.850	3.3	18.5	11 17	4 1.32	+16 47.0	0.977	1.961	3.9	19.9
11 27	3 51.18	+24 46.7	1.878	2.861	2.1	18.4	11 27	3 51.12	+16 9.8	0.971	1.954	3.5	19.8
12 7	3 41.77	+24 12.3	1.915	2.872	5.7	18.7	12 7	3 41.64	+15 39.5	0.989	1.948	9.3	20.1
12 17	3 33.98	+23 37.4	1.979	2.882	9.4	18.9	12 17	3 34.49	+15 21.4	1.029	1.942	14.9	20.4
12 27	3 28.53	+23 6.5	2.069	2.892	12.6	19.1	12 27	3 30.77	+15 19.1	1.088	1.938	19.6	20.7
399867	2005 UA ₄₂₆		11 23.1 82°53	0°9/23.5	18		289709	2005 HP ₂		11 23.1 160°77	0°5/22.8	18	
10 18	4 23.96	+23 12.0	2.083	2.890	13.7	21.1	10 18	4 22.08	+20 45.4	1.919	2.738	14.2	21.4
10 28	4 18.23	+23 16.8	2.020	2.910	10.4	20.9	10 28	4 17.11	+20 21.5	1.841	2.739	10.8	21.2
11 7	4 10.35	+23 14.8	1.981	2.930	6.7	20.7	11 7	4 9.82	+19 50.9	1.786	2.740	6.9	21.0
11 17	4 1.04	+23 6.0	1.969	2.950	2.8	20.5	11 17	4 0.91	+19 15.0	1.758	2.741	2.6	20.7
11 27	3 51.32	+22 51.7	1.986	2.970	1.7	20.5	11 27	3 51.43	+18 36.8	1.758	2.742	1.9	20.6
12 7	3 42.24	+22 34.3	2.033	2.989	5.5	20.8	12 7	3 42.50	+18 0.0	1.787	2.742	6.2	20.9
12 17	3 34.71	+22 17.3	2.108	3.009	9.0	21.0	12 17	3 35.12	+17 28.7	1.844	2.743	10.2	21.2
12 27	3 29.38	+22 3.8	2.208	3.028	12.1	21.3	12 27	3 30.03	+17 6.3	1.925	2.743	13.6	21.4
176998	2003 AW ₃₀		11 23.1 247°88	3°8/25.1	17		247528	2002 QS ₁₁₄		11 23.1 230°75	2°7/24.5	18	
10 18	4 23.82	+32 35.5	2.259	3.039	13.6	20.4	10 18	4 24.07	+29 21.2	2.035	2.831	14.4	21.0
10 28	4 18.49	+32 46.0	2.161	3.027	10.9	20.2	10 28	4 18.78	+29 19.5	1.945	2.824	11.3	20.8
11 7	4 10.77	+32 43.8	2.086	3.015	7.9	20.0	11 7	4 10.99	+29 5.6	1.877	2.817	7.8	20.6
11 17	4 1.30	+32 27.0	2.037	3.003	5.0	19.8	11 17	4 1.40	+28 38.4	1.835	2.810	4.2	20.3
11 27	3 51.09	+31 55.3	2.017	2.990	3.9	19.7	11 27	3 51.10	+27 58.6	1.822	2.802	2.9	20.2
12 7	3 41.30	+31 11.4	2.027	2.977	6.0	19.8	12 7	3 41.31	+27 9.9	1.839	2.795	6.0	20.4
12 17	3 32.99	+30 20.0	2.064	2.964	9.2	19.9	12 17	3 33.11	+26 17.4	1.883	2.786	9.8	20.6
12 27	3 26.96	+29 27.0	2.127	2.951	12.3	20.1	12 27	3 27.33	+25 27.2	1.952	2.778	13.2	20.8
13641	de Lesseps		11 23.1 187°58	0°0/23.0	18		354262	2002 QJ ₁₄₃		11 23.1 301°98	12°6/16.6	18	
10 18	4 20.25	+21 24.1	2.762	3.564	10.8	19.3	10 18	4 20.73	-11 56.2	1.836	2.618	16.2	20.5
10 28	4 15.06	+21 12.9	2.674	3.564	8.2	19.2	10 28	4 16.02	-13 25.8	1.782	2.614	14.4	20.4
11 7	4 8.22	+20 56.8	2.612	3.563	5.3	19.0	11 7	4 9.09	-14 36.3	1.748	2.611	13.1	20.3
11 17	4 0.23	+20 36.5	2.578	3.561	2.0	18.8	11 17	4 0.62	-15 19.9	1.736	2.608	12.6	20.2
11 27	3 51.82	+20 13.4	2.575	3.559	1.3	18.7	11 27	3 51.63	-15 30.5	1.748	2.604	13.2	20.3
12 7	3 43.76	+19 49.7	2.603	3.557	4.6	18.9	12 7	3 43.20	-15 6.7	1.781	2.601	14.6	20.3
12 17	3 36.76	+19 28.1	2.660	3.555	7.6	19.1	12 17	3 36.26	-14 10.8	1.835	2.598	16.4	20.5
12 27	3 31.38	+19 10.9	2.744	3.552	10.3	19.3	12 27	3 31.52	-12 48.0	1.908	2.595	18.2	20.6
270259	2001 UQ ₁₀₆		11 23.1 89°73	1°6/23.6	18		48942	1998 QV ₁₁		11 23.1 84°24	0°9/23.4	18	
10 18													

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
271578	2004 <i>LF</i> ₂₅		11 23.1 80°87	0°3/22.9	18		486529	2013 <i>HU</i> ₈		11 23.1 237°31	4°7/20.6	18	
10 18	4 25.87	+21 50.6	1.574	2.398	16.6	20.5	10 18	4 20.73	+7 40.3	2.263	3.079	12.4	22.3
10 28	4 20.16	+21 21.5	1.519	2.418	12.6	20.3	10 28	4 15.74	+6 58.9	2.177	3.069	9.8	22.1
11 7	4 11.76	+20 43.8	1.485	2.439	8.0	20.1	11 7	4 8.83	+6 20.1	2.116	3.058	6.9	21.9
11 17	4 1.62	+19 59.5	1.476	2.460	3.0	19.8	11 17	4 0.56	+5 47.7	2.082	3.047	4.9	21.7
11 27	3 51.05	+19 12.3	1.496	2.480	2.1	19.8	11 27	3 51.74	+5 25.3	2.077	3.036	5.3	21.7
12 7	3 41.43	+18 27.4	1.544	2.500	6.9	20.1	12 7	3 43.28	+5 15.6	2.101	3.025	7.8	21.9
12 17	3 33.83	+17 49.6	1.618	2.520	11.2	20.4	12 17	3 36.00	+5 19.9	2.151	3.013	10.7	22.0
12 27	3 28.97	+17 22.9	1.716	2.540	14.8	20.7	12 27	3 30.56	+5 38.5	2.226	3.001	13.4	22.2
275075	2009 <i>UZ</i> ₁₄₀		11 23.1 313°72	2°7/24.8	17		358852	2008 <i>FX</i> ₇₅		11 23.1 276°98	2°1/22.1	17	
10 18	4 20.31	+31 26.6	2.055	2.851	14.2	19.9	10 18	4 21.37	+15 29.6	2.018	2.840	13.5	21.0
10 28	4 15.91	+30 54.8	1.958	2.837	11.3	19.7	10 28	4 16.61	+15 9.0	1.924	2.824	10.4	20.7
11 7	4 9.13	+30 7.0	1.884	2.823	7.9	19.5	11 7	4 9.60	+14 46.2	1.853	2.807	6.7	20.5
11 17	4 0.68	+29 2.9	1.835	2.809	4.3	19.2	11 17	4 0.92	+14 23.1	1.809	2.790	3.1	20.2
11 27	3 51.59	+27 44.9	1.815	2.796	2.8	19.1	11 27	3 51.49	+14 2.5	1.794	2.773	3.0	20.2
12 7	3 43.02	+26 18.2	1.825	2.782	5.9	19.3	12 7	3 42.40	+13 47.3	1.807	2.756	6.8	20.4
12 17	3 35.98	+24 49.7	1.863	2.770	9.6	19.5	12 17	3 34.65	+13 40.4	1.848	2.739	10.7	20.6
12 27	3 31.26	+23 26.4	1.926	2.757	13.1	19.7	12 27	3 29.05	+13 43.7	1.913	2.722	14.1	20.8
23616	1996 <i>HY</i> ₁₀		11 23.1 206°53	1°6/23.8	18		380522	2004 <i>GK</i>		11 23.1 282°47	3°1/21.7	18	
10 18	4 22.51	+25 3.2	2.392	3.191	12.4	19.2	10 18	4 22.37	+16 39.1	1.515	2.352	16.5	20.8
10 28	4 17.17	+25 22.4	2.306	3.190	9.6	19.0	10 28	4 18.07	+15 45.0	1.427	2.335	12.7	20.6
11 7	4 9.77	+25 35.2	2.243	3.188	6.4	18.8	11 7	4 10.87	+14 43.9	1.362	2.319	8.3	20.3
11 17	4 0.90	+25 40.7	2.208	3.187	3.0	18.5	11 17	4 1.48	+13 39.6	1.321	2.302	4.0	20.0
11 27	3 51.44	+25 38.8	2.202	3.185	2.0	18.5	11 27	3 51.15	+12 38.1	1.307	2.285	4.2	20.0
12 7	3 42.35	+25 31.3	2.227	3.183	5.1	18.7	12 7	3 41.31	+11 45.9	1.320	2.269	8.8	20.2
12 17	3 34.54	+25 20.9	2.281	3.181	8.5	18.9	12 17	3 33.28	+11 8.5	1.358	2.252	13.5	20.4
12 27	3 28.69	+25 10.8	2.360	3.179	11.4	19.1	12 27	3 28.05	+10 49.3	1.417	2.235	17.7	20.6
188887	2006 <i>WD</i> ₁₅₂		11 23.1 349°92	1°9/22.6	18		392353	2010 <i>FQ</i> ₈₉		11 23.1 195°80	1°2/22.5	18	
10 18	4 24.15	+16 0.8	1.282	2.126	18.4	19.7	10 18	4 24.07	+17 38.4	2.152	2.964	13.1	22.1
10 28	4 19.79	+16 5.9	1.211	2.123	14.2	19.5	10 28	4 18.42	+17 24.6	2.067	2.961	10.0	21.9
11 7	4 12.10	+16 10.1	1.161	2.120	9.2	19.2	11 7	4 10.61	+17 7.5	2.006	2.959	6.4	21.7
11 17	4 1.94	+16 14.7	1.134	2.118	3.8	18.9	11 17	4 1.26	+16 48.2	1.973	2.955	2.6	21.4
11 27	3 50.77	+16 21.4	1.133	2.116	3.2	18.8	11 27	3 51.32	+16 29.0	1.969	2.951	2.2	21.4
12 7	3 40.30	+16 32.9	1.157	2.115	8.5	19.1	12 7	3 41.83	+16 12.4	1.996	2.947	6.1	21.6
12 17	3 32.03	+16 51.3	1.206	2.114	13.7	19.4	12 17	3 33.71	+16 1.2	2.051	2.942	9.7	21.8
12 27	3 27.00	+17 18.6	1.276	2.114	18.0	19.7	12 27	3 27.69	+15 57.7	2.130	2.937	12.9	22.0
281241	2007 <i>LM</i> ₅		11 23.1 24°93	5°3/19.8	18		103509	2000 <i>BG</i> ₂		11 23.1 284°92	2°3/23.9	18	
10 18	4 17.80	+7 30.7	2.141	2.965	12.8	20.4	10 18	4 24.68	+26 25.9	1.540	2.360	17.1	19.6
10 28	4 13.49	+6 21.7	2.072	2.967	10.0	20.2	10 28	4 20.18	+26 29.9	1.445	2.340	13.5	19.3
11 7	4 7.33	+5 15.1	2.027	2.969	7.2	20.0	11 7	4 12.45	+26 22.1	1.370	2.320	9.1	19.0
11 17	3 59.93	+4 15.7	2.010	2.971	5.4	19.9	11 17	4 2.17	+26 0.6	1.320	2.300	4.4	18.7
11 27	3 52.12	+3 28.6	2.020	2.974	6.0	20.0	11 27	3 50.68	+25 26.0	1.296	2.279	2.8	18.5
12 7	3 44.78	+2 57.1	2.059	2.976	8.3	20.1	12 7	3 39.60	+24 42.3	1.300	2.259	7.5	18.8
12 17	3 38.67	+2 43.0	2.124	2.979	11.1	20.3	12 17	3 30.49	+23 55.9	1.329	2.239	12.5	19.0
12 27	3 34.39	+2 46.3	2.211	2.982	13.7	20.5	12 27	3 24.48	+23 14.1	1.380	2.219	16.9	19.2
279587	2011 <i>EJ</i> ₃		11 23.1 258°88	3°6/25.1	17		292327	2006 <i>SW</i> ₁₈₀		11 23.1 226°22	2°8/24.4	18	
10 18	4 21.86	+32 21.9	2.446	3.225	12.7	21.0	10 18	4 24.84	+28 48.9	2.243	3.032	13.4	21.7
10 28	4 16.76	+32 39.8	2.358	3.223	10.2	20.9	10 28	4 19.23	+29 5.5	2.149	3.024	10.6	21.5
11 7	4 9.54	+32 46.5	2.294	3.222	7.3	20.7	11 7	4 11.26	+29 12.5	2.078	3.015	7.3	21.3
11 17	4 0.83	+32 40.4	2.256	3.220	4.7	20.5	11 17	4 1.56	+29 8.0	2.033	3.006	4.1	21.1
11 27	3 51.52	+32 21.3	2.247	3.218	3.7	20.4	11 27	3 51.12	+28 52.0	2.018	2.997	3.0	21.0
12 7	3 42.64	+31 51.3	2.267	3.216	5.6	20.6	12 7	3 41.07	+28 26.6	2.033	2.987	5.7	21.2
12 17	3 35.10	+31 14.1	2.315	3.214	8.4	20.7	12 17	3 32.46	+27 55.6	2.076	2.976	9.2	21.4
12 27	3 29.61	+30 34.7	2.390	3.213	11.2	20.9	12 27	3 26.08	+27 24.1	2.145	2.966	12.3	21.6
10272	<i>Yuko</i>		11 23.1 6°16	7°8/26.6	18		129091	2004 <i>WE</i> ₅		11 23.1 1°70	1°2/22.6	18	
10 18	4 25.30	+38 58.2	1.675	2.451	17.7	18.8	10 18	4 18.33	+18 28.3	1.609	2.448	15.6	19.1
10 28	4 20.64	+39 50.6	1.600	2.451	14.9	18.6	10 28	4 14.68	+18 12.8	1.537	2.446	11.9	18.9
11 7	4 12.65	+40 24.3	1.544	2.452	11.7	18.4	11 7	4 8.50	+17 52.7	1.487	2.446	7.6	18.6
11 17	4 2.16	+40 33.6	1.511	2.453	8.9	18.2	11 17	4 0.50	+17 29.7	1.462	2.446	3.0	18.4
11 27	3 50.67	+40 15.7	1.503	2.455	7.8	18.2	11 27	3 51.83	+17 7.0	1.464	2.447	2.5	18.3
12 7	3 39.91	+39 33.3	1.521	2.457	9.1	18.3	12 7	3 43.76	+16 48.1	1.493	2.450	7.0	18.6
12 17	3 31.39	+38 33.2	1.564	2.460	11.9	18.4	12 17	3 37.36	+16 36.4	1.547	2.453	11.3	18.9
12 27	3 26.13	+37 25.0	1.630	2.463	15.0	18.7	12 27	3 33.46	+16 34.5	1.624	2.457	15.0	19.1
374731	2006 <i>SG</i> ₈₀		11 23.1 28°97	5°1/20.9	18		286841	<i>Annemieke</i>		11 23.1 11°68	3°0/24.9	17	
10 18	4 20.67	+14 37.5	1.114	1.974	19.5	20.4	10 18	4 20.18	+31 0.9	1.954	2.754	14.7	20.1
10 28	4 17.07	+13 11.9	1.063	1.982	14.9	20.2	10 28	4 15.82	+30 45.5	1.876	2.756	11.6	19.9
11 7	4 10.20	+11 41.9	1.032	1.992	9.9	19.9	11 7	4 9.07	+30 15.6	1.819	2.759	8.1	19.7
11 17	4 1.13	+10 15.5	1.023	2.002	5.7	19.7	11 17	4 0.68	+29 30.8	1.789	2.762	4.5	19.5
11 27	3 51.43	+9 2.2	1.039	2.013	6.4	19.8	11 27	3 51.75	+28 33.1	1.786	2.765	3.1	19.4
12 7	3 42.79	+8 9.8	1.079	2.024	10.8	20.1	12 7	3 43.44	+27 27.2	1.812	2.769	5.9	19.6
12 17	3 36.48	+7 42.2	1.141	2.037	15.4	20.4	12 17	3 36.77	+26 19.1	1.865	2.773	9.5	19.8
12 27	3 33.34	+7 39.5	1.223	2.050	19.3	20.7	12 27	3 32.45	+25 15.1	1.943	2.778	12.8	20.0
519392	2011 <i>SE</i> ₃₀		11 23.1 275°72	4°4/20.4	18		279526	2011 <i>BE</i> ₅₁		11 23.1 168°41	1°2/22.		

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
345398	2006 <i>BZ</i> ₂₀₆		11 23.1 131°46'	1.4°/22.4	18		22216	1242 <i>T</i> -2		11 23.1 207°68'	5.3°/19.8	18	
10 18	4 24.88	+18 2.1	2.048	2.860	13.7	21.5	10 18	4 21.38	+7 0.0	2.277	3.090	12.5	19.2
10 28	4 18.94	+17 36.2	1.979	2.874	10.4	21.3	10 28	4 16.18	+5 53.1	2.197	3.085	9.8	19.0
11 7	4 10.84	+17 6.2	1.935	2.888	6.6	21.1	11 7	4 9.09	+4 48.1	2.141	3.079	7.1	18.8
11 17	4 1.32	+16 33.8	1.918	2.901	2.7	20.9	11 17	4 0.70	+3 49.9	2.113	3.072	5.4	18.7
11 27	3 51.37	+16 2.0	1.931	2.913	2.4	20.9	11 27	3 51.82	+3 3.0	2.114	3.065	5.9	18.7
12 7	3 42.05	+15 34.1	1.974	2.925	6.2	21.2	12 7	3 43.35	+2 31.1	2.144	3.057	8.3	18.9
12 17	3 34.26	+15 13.1	2.045	2.936	9.8	21.4	12 17	3 36.07	+2 16.1	2.201	3.049	11.1	19.0
12 27	3 28.65	+15 1.4	2.140	2.946	12.9	21.7	12 27	3 30.63	+2 18.2	2.281	3.040	13.6	19.2
327993	2007 <i>GP</i> ₄₂		11 23.1 135°12'	0°1°/23.2	18		34760	2001 <i>QR</i> ₁₅₂		11 23.1 351°55'	0°4°/22.9	18	
10 18	4 20.79	+21 46.8	2.643	3.446	11.2	22.4	10 18	4 20.49	+21 8.6	1.708	2.537	15.3	18.3
10 28	4 15.51	+21 35.4	2.566	3.455	8.5	22.2	10 28	4 16.26	+20 45.1	1.631	2.534	11.7	18.1
11 7	4 8.53	+21 18.8	2.514	3.464	5.5	22.0	11 7	4 9.49	+20 13.9	1.576	2.532	7.5	17.8
11 17	4 0.42	+20 57.7	2.490	3.473	2.1	21.8	11 17	4 0.93	+19 36.5	1.546	2.530	2.9	17.6
11 27	3 51.94	+20 33.6	2.497	3.482	1.3	21.8	11 27	3 51.69	+18 56.3	1.544	2.529	2.0	17.5
12 7	3 43.89	+20 8.9	2.535	3.490	4.7	22.0	12 7	3 43.04	+18 17.5	1.570	2.528	6.7	17.8
12 17	3 36.97	+19 46.3	2.602	3.498	7.7	22.2	12 17	3 36.06	+17 44.8	1.622	2.527	11.0	18.0
12 27	3 31.76	+19 28.4	2.695	3.505	10.4	22.4	12 27	3 31.55	+17 21.9	1.698	2.527	14.7	18.3
460234	2014 <i>QL</i> ₂₃₇		11 23.1 11°18'	1°2°/22.6	16		196694	2003 <i>SD</i> ₇₄		11 23.1 353°49'	1°7°/23.8	18	
10 18	4 19.01	+18 23.7	1.743	2.576	14.8	21.0	10 18	4 21.08	+25 35.2	1.432	2.264	17.5	19.9
10 28	4 14.97	+18 6.7	1.673	2.578	11.3	20.8	10 28	4 17.30	+25 29.3	1.358	2.261	13.6	19.6
11 7	4 8.57	+17 45.4	1.625	2.582	7.2	20.5	11 7	4 10.46	+25 11.2	1.304	2.257	9.0	19.4
11 17	4 0.52	+17 21.5	1.603	2.586	2.8	20.3	11 17	4 1.38	+24 40.5	1.274	2.255	4.1	19.1
11 27	3 51.88	+16 58.0	1.608	2.591	2.4	20.3	11 27	3 51.43	+23 59.5	1.269	2.253	2.4	18.9
12 7	3 43.83	+16 38.2	1.641	2.597	6.7	20.5	12 7	3 42.18	+23 13.3	1.291	2.252	7.3	19.2
12 17	3 37.37	+16 25.3	1.700	2.603	10.7	20.8	12 17	3 34.99	+22 28.4	1.338	2.252	12.1	19.5
12 27	3 33.23	+16 21.6	1.783	2.610	14.2	21.0	12 27	3 30.79	+21 51.0	1.407	2.253	16.2	19.8
20772	Brittajanones		11 23.1 259°45'	0°1°/23.0	18		169725	2002 <i>NB</i> ₂₉		11 23.1 124°75'	4°3°/21.4	18	
10 18	4 22.56	+23 30.5	1.766	2.585	15.2	18.4	10 18	4 23.36	+9 7.6	1.917	2.737	14.2	20.2
10 28	4 17.78	+22 47.2	1.681	2.579	11.7	18.2	10 28	4 17.94	+8 41.0	1.849	2.744	11.0	20.0
11 7	4 10.43	+21 52.5	1.620	2.573	7.6	17.9	11 7	4 10.32	+8 17.7	1.804	2.751	7.5	19.8
11 17	4 1.26	+20 48.0	1.584	2.567	2.9	17.6	11 17	4 1.20	+8 1.0	1.785	2.757	4.7	19.7
11 27	3 51.41	+19 38.1	1.577	2.561	1.9	17.6	11 27	3 51.57	+7 53.9	1.796	2.763	5.0	19.7
12 7	3 42.16	+18 28.6	1.598	2.555	6.7	17.9	12 7	3 42.51	+7 58.8	1.834	2.769	7.9	19.9
12 17	3 34.61	+17 25.8	1.647	2.549	11.0	18.1	12 17	3 34.94	+8 16.3	1.900	2.775	11.2	20.1
12 27	3 29.58	+16 35.0	1.719	2.542	14.8	18.3	12 27	3 29.56	+8 46.2	1.988	2.780	14.2	20.3
410562	2008 <i>GM</i> ₃₈		11 23.1 92°84'	0°1°/23.1	18		419960	2011 <i>BW</i> ₁₀₀		11 23.1 201°26'	6°1°/27.0	17	
10 18	4 23.64	+19 27.6	2.170	2.981	13.1	21.1	10 18	4 24.63	+41 1.0	2.557	3.295	13.3	21.1
10 28	4 18.03	+19 41.5	2.098	2.991	10.0	20.9	10 28	4 19.06	+41 29.8	2.469	3.293	11.2	20.9
11 7	4 10.32	+19 52.1	2.049	3.001	6.4	20.7	11 7	4 11.14	+41 43.4	2.403	3.292	8.9	20.8
11 17	4 1.16	+19 59.5	2.029	3.012	2.4	20.5	11 17	4 1.56	+41 38.5	2.361	3.291	6.9	20.7
11 27	3 51.49	+20 4.3	2.038	3.022	1.6	20.5	11 27	3 51.32	+41 13.8	2.347	3.289	6.1	20.6
12 7	3 42.33	+20 8.2	2.077	3.032	5.5	20.7	12 7	3 41.59	+40 31.3	2.361	3.287	6.9	20.7
12 17	3 34.56	+20 13.1	2.144	3.042	9.0	21.0	12 17	3 33.37	+39 35.5	2.404	3.286	8.9	20.8
12 27	3 28.88	+20 21.3	2.236	3.052	12.1	21.2	12 27	3 27.42	+38 32.5	2.471	3.284	11.2	20.9
402028	2003 <i>SV</i> ₁₅₇		11 23.1 351°44'	9°9°/26.5	17		133777	2003 <i>WP</i> ₉₅		11 23.1 260°36'	0°3°/22.9	17	
10 18	4 22.37	+40 28.6	1.552	2.333	18.7	19.6	10 18	4 21.55	+18 51.8	2.394	3.204	12.0	20.3
10 28	4 19.05	+41 59.0	1.474	2.323	16.0	19.3	10 28	4 16.40	+19 2.1	2.307	3.200	9.2	20.2
11 7	4 12.07	+43 11.8	1.414	2.313	13.2	19.1	11 7	4 9.31	+19 9.7	2.245	3.197	5.9	19.9
11 17	4 2.15	+43 58.8	1.375	2.306	10.8	19.0	11 17	4 0.83	+19 15.0	2.210	3.193	2.3	19.7
11 27	3 50.79	+44 14.6	1.361	2.299	9.9	18.9	11 27	3 51.79	+19 18.7	2.205	3.189	1.6	19.6
12 7	3 39.95	+43 59.2	1.370	2.294	11.0	19.0	12 7	3 43.09	+19 22.3	2.231	3.186	5.2	19.9
12 17	3 31.45	+43 18.4	1.402	2.291	13.5	19.1	12 17	3 35.58	+19 27.6	2.285	3.182	8.6	20.1
12 27	3 26.58	+42 22.2	1.455	2.289	16.4	19.3	12 27	3 29.92	+19 36.5	2.365	3.178	11.6	20.3
154838	2004 <i>RR</i> ₃₀		11 23.1 86°72'	0°1°/23.1	18		88125	2000 <i>WU</i> ₁₄₅		11 23.1 334°61'	10°6°/18.3	18	
10 18	4 22.29	+21 49.4	2.133	2.944	13.3	20.8	10 18	4 18.39	-4 48.3	1.710	2.524	15.9	18.4
10 28	4 16.97	+21 37.3	2.066	2.960	10.1	20.6	10 28	4 14.53	-5 58.7	1.642	2.512	13.6	18.3
11 7	4 9.60	+21 19.0	2.023	2.975	6.4	20.4	11 7	4 8.35	-6 55.1	1.595	2.500	11.6	18.1
11 17	4 0.87	+20 55.4	2.007	2.990	2.5	20.2	11 17	4 0.51	-7 29.8	1.571	2.490	10.6	18.0
11 27	3 51.73	+20 28.5	2.021	3.005	1.6	20.1	11 27	3 52.01	-7 36.9	1.571	2.479	11.2	18.0
12 7	3 43.19	+20 1.3	2.064	3.020	5.4	20.4	12 7	3 43.99	-7 14.0	1.594	2.470	13.1	18.1
12 17	3 36.09	+19 37.1	2.136	3.035	9.0	20.7	12 17	3 37.44	-6 22.3	1.640	2.461	15.5	18.3
12 27	3 31.07	+19 18.9	2.232	3.050	12.0	20.9	12 27	3 33.14	-5 6.0	1.706	2.453	18.0	18.4
345022	2005 <i>EY</i> ₇₇		11 23.1 348°08'	4°0°/24.5	18		219262	2000 <i>AU</i> ₁₂₂		11 23.1 27°76'	7°4°/20.7	18	
10 18	4 14.70	+28 24.8	1.074	1.930	20.4	18.8	10 18	4 19.80	+2 54.2	1.560	2.393	16.3	18.4
10 28	4 13.51	+28 43.4	1.000	1.913	16.3	18.5	10 28	4 15.48	+2 11.9	1.514	2.409	13.0	18.3
11 7	4 8.62	+28 45.3	0.944	1.899	11.3	18.2	11 7	4 8.81	+1 40.0	1.490	2.427	9.7	18.1
11 17	4 0.81	+28 27.7	0.908	1.886	6.2	17.8	11 17	4 0.61	+1 23.8	1.490	2.445	7.6	18.1
11 27	3 51.69	+27 51.1	0.894	1.876	4.3	17.7	11 27	3 52.01	+1 27.1	1.515	2.465	8.0	18.1
12 7	3 43.26	+27 1.0	0.903	1.868	8.8	17.9	12 7	3 44.17	+1 51.1	1.566	2.485	10.4	18.3
12 17	3 37.31	+26 6.1	0.934	1.862	14.2	18.2	12 17	3 38.04	+2 34.4	1.641	2.506	13.3	18.5
12 27	3 35.07	+25 16.0	0.984	1.859	19.1	18.5	12 27	3 34.26	+3 33.8	1.738	2.527	16.1	18.8
219544	2001 <i>RA</i> ₆		11 23.1 105°17'	5°0°/25.9	17		93637	2000 <i>UM</i> ₈₁		1			

EPHEMERIDES

11 23.1

11 23.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
407604	2011 <i>BS</i> ₅₆	11 23.1 295°71		3°4/24.6 17			453733	2011 <i>BP</i> ₆₄	11 23.1 223°69		6°6/19.0 18		
10 18	4 22.85	+29 43.1	2.199	2.991	13.5	21.1	10 18	4 19.17	- 2 20.8	2.755	3.546	11.1	21.4
10 28	4 17.85	+30 11.8	2.107	2.982	10.8	20.9	10 28	4 14.23	- 3 6.5	2.677	3.538	9.2	21.3
11 7	4 10.48	+30 30.9	2.037	2.973	7.6	20.7	11 7	4 7.76	- 3 43.9	2.623	3.530	7.5	21.2
11 17	4 1.35	+30 38.3	1.994	2.964	4.5	20.5	11 17	4 0.24	- 4 9.2	2.596	3.521	6.6	21.1
11 27	3 51.46	+30 33.3	1.980	2.956	3.5	20.4	11 27	3 52.31	- 4 19.1	2.598	3.512	7.0	21.1
12 7	3 41.93	+30 17.5	1.994	2.947	5.9	20.5	12 7	3 44.68	- 4 11.9	2.627	3.502	8.5	21.2
12 17	3 33.82	+29 54.5	2.037	2.938	9.2	20.7	12 17	3 38.00	- 3 47.7	2.682	3.493	10.5	21.3
12 27	3 27.95	+29 29.0	2.104	2.930	12.3	20.9	12 27	3 32.81	- 3 7.8	2.760	3.483	12.4	21.5
173761	2001 <i>RD</i> ₁₁₇	11 23.1 152°21		1°0/22.6 18			220113	2002 <i>TF</i> ₃₈	11 23.1 24°59		2°7/22.2 18		
10 18	4 21.81	+19 1.5	1.972	2.792	13.8	20.6	10 18	4 19.95	+17 43.4	0.947	1.817	21.3	19.6
10 28	4 16.89	+18 39.9	1.894	2.793	10.6	20.4	10 28	4 17.01	+17 4.7	0.906	1.831	16.2	19.4
11 7	4 9.73	+18 13.3	1.839	2.794	6.7	20.2	11 7	4 10.41	+16 20.3	0.883	1.847	10.3	19.1
11 17	4 1.02	+17 43.3	1.811	2.795	2.6	19.9	11 17	4 1.36	+15 34.8	0.880	1.864	4.4	18.9
11 27	3 51.74	+17 12.7	1.812	2.795	2.2	19.9	11 27	3 51.68	+14 54.8	0.900	1.883	4.1	18.9
12 7	3 42.97	+16 44.9	1.842	2.796	6.2	20.1	12 7	3 43.25	+14 26.6	0.944	1.903	9.6	19.3
12 17	3 35.68	+16 23.2	1.900	2.797	10.1	20.4	12 17	3 37.47	+14 14.2	1.009	1.924	14.9	19.7
12 27	3 30.59	+16 10.4	1.981	2.797	13.4	20.6	12 27	3 35.16	+14 19.1	1.093	1.947	19.2	20.0
86333	1999 <i>XA</i> ₂₆	11 23.1 27°36		2°6/21.9 18			443029	2013 <i>EY</i> ₃₂	11 23.1 231°34		2°6/21.9 18		
10 18	4 19.45	+15 23.7	1.646	2.483	15.3	18.8	10 18	4 21.54	+14 57.8	1.913	2.738	14.0	20.9
10 28	4 15.30	+14 51.4	1.587	2.495	11.6	18.6	10 28	4 16.72	+14 27.6	1.836	2.737	10.7	20.7
11 7	4 8.77	+14 17.0	1.550	2.507	7.5	18.4	11 7	4 9.66	+13 55.3	1.783	2.737	7.0	20.5
11 17	4 0.63	+13 43.8	1.539	2.520	3.5	18.2	11 17	4 1.03	+13 23.5	1.756	2.736	3.4	20.2
11 27	3 52.02	+13 15.4	1.554	2.533	3.6	18.2	11 27	3 51.82	+12 55.7	1.757	2.736	3.4	20.2
12 7	3 44.09	+12 55.5	1.597	2.548	7.4	18.5	12 7	3 43.12	+12 35.3	1.788	2.735	7.0	20.5
12 17	3 37.84	+12 46.8	1.666	2.562	11.3	18.7	12 17	3 35.88	+12 24.8	1.845	2.734	10.7	20.7
12 27	3 33.96	+12 50.4	1.758	2.578	14.6	19.0	12 27	3 30.85	+12 25.9	1.925	2.733	14.0	20.9
125648	2001 <i>XS</i> ₆₆	11 23.1 322°16		4°0/21.9 18			448496	2010 <i>KX</i> ₁₁₉	11 23.1 73°49		2°8/21.8 18		
10 18	4 21.66	+12 13.0	1.381	2.226	17.3	18.9	10 18	4 22.76	+14 6.2	1.877	2.701	14.3	21.3
10 28	4 17.79	+11 53.8	1.301	2.211	13.5	18.6	10 28	4 17.43	+13 34.1	1.821	2.721	10.8	21.2
11 7	4 10.87	+11 36.0	1.241	2.197	9.0	18.3	11 7	4 9.94	+13 1.1	1.789	2.742	7.0	21.0
11 17	4 1.62	+11 23.1	1.205	2.184	4.9	18.0	11 17	4 1.07	+12 30.3	1.783	2.762	3.5	20.8
11 27	3 51.32	+11 19.1	1.194	2.171	5.0	18.0	11 27	3 51.83	+12 5.0	1.806	2.783	3.6	20.8
12 7	3 41.50	+11 27.1	1.209	2.158	9.3	18.2	12 7	3 43.30	+11 48.1	1.858	2.803	7.0	21.1
12 17	3 33.58	+11 49.1	1.248	2.147	14.0	18.4	12 17	3 36.34	+11 41.7	1.936	2.823	10.5	21.4
12 27	3 28.61	+12 25.4	1.308	2.136	18.2	18.7	12 27	3 31.58	+11 46.7	2.039	2.843	13.5	21.6
99597	2002 <i>GD</i> ₂₆	11 23.1 214°59		0°8/23.5 18			45248	1999 <i>XO</i> ₂₅₈	11 23.1 207°12		7°7/17.3 18		
10 18	4 27.00	+23 44.4	1.640	2.456	16.4	20.7	10 18	4 21.29	+ 0 2.3	2.321	3.122	12.6	19.0
10 28	4 21.50	+23 34.9	1.556	2.451	12.7	20.5	10 28	4 16.08	- 1 43.5	2.248	3.117	10.4	18.9
11 7	4 13.04	+23 15.5	1.494	2.445	8.3	20.2	11 7	4 9.04	- 3 23.6	2.200	3.111	8.6	18.8
11 17	4 2.40	+22 46.1	1.457	2.439	3.4	19.9	11 17	4 0.75	- 4 51.3	2.180	3.104	7.7	18.7
11 27	3 50.87	+22 8.7	1.448	2.433	2.0	19.8	11 27	3 51.99	- 6 0.6	2.188	3.096	8.5	18.7
12 7	3 39.95	+21 27.7	1.468	2.426	7.0	20.1	12 7	3 43.63	- 6 47.4	2.224	3.089	10.3	18.8
12 17	3 30.95	+20 48.6	1.514	2.418	11.6	20.3	12 17	3 36.44	- 7 10.3	2.284	3.080	12.5	19.0
12 27	3 24.83	+20 17.0	1.584	2.410	15.7	20.6	12 27	3 31.03	- 7 10.3	2.366	3.071	14.6	19.1
387523	1999 <i>VH</i> ₁₇₅	11 23.1 49°79		1°6/23.8 18			452178	2015 <i>RZ</i> ₈₈	11 23.1 58°69		1°1/23.7 15		
10 18	4 26.28	+25 1.6	1.368	2.196	18.4	20.4	10 18	4 24.06	+25 41.7	1.690	2.506	16.0	21.0
10 28	4 20.91	+25 1.4	1.322	2.222	14.1	20.2	10 28	4 18.73	+25 15.6	1.636	2.530	12.2	20.8
11 7	4 12.48	+24 49.7	1.296	2.249	9.2	20.0	11 7	4 10.89	+24 38.3	1.603	2.554	7.9	20.6
11 17	4 2.07	+24 26.5	1.294	2.276	4.0	19.8	11 17	4 1.44	+23 50.7	1.597	2.578	3.4	20.4
11 27	3 51.22	+23 54.4	1.319	2.303	2.4	19.8	11 27	3 51.63	+22 56.4	1.618	2.602	1.9	20.4
12 7	3 41.51	+23 18.3	1.371	2.331	7.1	20.1	12 7	3 42.72	+22 0.7	1.668	2.626	6.2	20.7
12 17	3 34.12	+22 44.1	1.448	2.359	11.6	20.5	12 17	3 35.71	+21 9.1	1.744	2.651	10.2	21.0
12 27	3 29.80	+22 17.0	1.548	2.387	15.3	20.8	12 27	3 31.27	+20 26.4	1.845	2.675	13.6	21.3
59859	1999 <i>RM</i> ₉₄	11 23.1 202°34		5°0/25.1 18			314799	2006 <i>TT</i> ₅₂	11 23.1 325°42		0°2/23.1 18		
10 18	4 28.55	+33 7.6	1.999	2.777	15.2	19.0	10 18	4 21.28	+19 49.6	1.642	2.473	15.7	20.4
10 28	4 22.55	+33 54.2	1.913	2.775	12.3	18.8	10 28	4 17.20	+19 56.5	1.555	2.459	12.1	20.1
11 7	4 13.68	+34 28.7	1.849	2.772	9.1	18.6	11 7	4 10.35	+19 59.1	1.489	2.445	7.8	19.9
11 17	4 2.67	+34 47.0	1.810	2.769	6.1	18.4	11 17	4 1.42	+19 57.4	1.449	2.432	3.0	19.5
11 27	3 50.72	+34 46.9	1.799	2.766	5.1	18.3	11 27	3 51.53	+19 52.9	1.435	2.420	2.0	19.4
12 7	3 39.24	+34 29.9	1.817	2.762	7.1	18.4	12 7	3 42.06	+19 48.0	1.449	2.408	7.0	19.7
12 17	3 29.54	+34 0.5	1.863	2.758	10.3	18.6	12 17	3 34.27	+19 45.9	1.489	2.396	11.6	20.0
12 27	3 22.58	+33 25.4	1.933	2.754	13.5	18.8	12 27	3 29.12	+19 49.8	1.551	2.386	15.5	20.2
185084	2006 <i>RR</i> ₈₇	11 23.1 325°92		1°8/22.4 18			215342	2001 <i>US</i> ₂₂₅	11 23.1 78°25		1°5/22.5 18		
10 18	4 23.26	+18 16.1	1.331	2.173	18.0	20.6	10 18	4 22.80	+16 47.0	1.913	2.735	14.1	20.7
10 28	4 19.06	+17 48.7	1.258	2.168	13.8	20.4	10 28	4 17.65	+16 37.9	1.843	2.743	10.8	20.5
11 7	4 11.66	+17 15.0	1.205	2.164	8.9	20.1	11 7	4 10.22	+16 26.5	1.796	2.750	6.9	20.3
11 17	4 1.91	+16 37.5	1.176	2.159	3.7	19.8	11 17	4 1.24	+16 14.1	1.775	2.758	2.8	20.0
11 27	3 51.23	+16 0.6	1.172	2.155	3.2	19.7	11 27	3 51.72	+16 3.0	1.784	2.766	2.5	20.0
12 7	3 41.25	+15 29.6	1.195	2.151	8.5	20.0	12 7	3 42.77	+15 55.5	1.821	2.774	6.4	20.3
12 17	3 33.38	+15 9.3	1.242	2.148	13.5	20.3	12 17	3 35.35	+15 54.1	1.885	2.781	10.2	20.6
12 27	3 28.63	+15 3.1	1.310	2.144	17.9	20.6	12 27	3 30.17	+16 0.6	1.974	2.789	13.5	20.8
224291	2005 <i>TU</i> ₁₀₉	11 23.1 268°16		2°0/22.2 18			125574	2001 <i>XZ</i> ₁₉	11 23.1 329°41		4°2/24.8 18		

EPHEMERIDES

11 23.1

11 23.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
203645	2002 <i>GF</i> ₉₉		11 23.1 43°42'	5°2'/20.4	18		252525	2001 <i>UW</i> ₂₁₉		11 23.1 344°62'	6°4'/25.4	17	
10 18	4 20.93	+12 53.0	1.485	2.327	16.5	18.9	10 18	4 22.23	+33 46.2	1.519	2.325	17.9	20.0
10 28	4 16.59	+11 19.6	1.427	2.335	12.7	18.7	10 28	4 18.59	+34 39.0	1.437	2.315	14.7	19.7
11 7	4 9.67	+9 43.5	1.391	2.344	8.6	18.5	11 7	4 11.60	+35 17.1	1.376	2.306	11.0	19.5
11 17	4 1.03	+8 12.0	1.380	2.354	5.5	18.3	11 17	4 2.00	+35 35.0	1.337	2.297	7.7	19.3
11 27	3 51.89	+6 53.2	1.397	2.364	6.2	18.4	11 27	3 51.22	+35 30.2	1.323	2.290	6.4	19.2
12 7	3 43.55	+5 53.5	1.440	2.374	9.7	18.6	12 7	3 40.99	+35 4.2	1.334	2.284	8.7	19.3
12 17	3 37.06	+5 16.7	1.507	2.384	13.5	18.9	12 17	3 32.89	+34 23.4	1.370	2.278	12.3	19.5
12 27	3 33.12	+5 2.9	1.595	2.395	16.9	19.1	12 27	3 28.07	+33 36.2	1.428	2.274	16.0	19.7
183444	2003 <i>AN</i> ₉₄		11 23.1 283°08'	0°7'/23.4	17		24315	2000 <i>AV</i> ₄		11 23.1 189°30'	0°1'/23.0	18	R
10 18	4 23.92	+21 30.6	1.975	2.788	14.1	20.4	10 18	4 20.23	+21 5.5	2.652	3.457	11.1	18.9
10 28	4 18.78	+21 51.0	1.885	2.778	10.9	20.2	10 28	4 15.21	+20 50.8	2.566	3.456	8.5	18.7
11 7	4 11.16	+22 7.0	1.817	2.768	7.1	19.9	11 7	4 8.47	+20 31.3	2.504	3.455	5.4	18.5
11 17	4 1.69	+22 17.9	1.776	2.758	2.9	19.7	11 17	4 0.55	+20 7.5	2.471	3.454	2.1	18.3
11 27	3 51.39	+22 23.8	1.764	2.748	1.8	19.5	11 27	3 52.20	+19 41.2	2.468	3.452	1.4	18.2
12 7	3 41.45	+22 26.1	1.781	2.738	6.0	19.8	12 7	3 44.21	+19 15.0	2.496	3.451	4.8	18.5
12 17	3 32.98	+22 27.5	1.825	2.728	10.1	20.0	12 17	3 37.31	+18 51.4	2.553	3.449	7.9	18.7
12 27	3 26.85	+22 31.3	1.894	2.718	13.6	20.2	12 27	3 32.08	+18 32.9	2.636	3.446	10.6	18.9
484734	2008 <i>YX</i> ₉		11 23.1 9°21'	4°4'/25.1	17		409654	2005 <i>YG</i> ₅₄		11 23.1 307°37'	0°0'/23.2	17	
10 18	4 20.17	+31 25.3	1.229	2.060	19.9	19.9	10 18	4 20.25	+21 50.8	1.999	2.818	13.7	21.6
10 28	4 17.15	+31 28.0	1.165	2.062	15.8	19.7	10 28	4 15.89	+21 36.6	1.909	2.807	10.6	21.4
11 7	4 10.60	+31 10.9	1.119	2.065	11.2	19.4	11 7	4 9.24	+21 15.6	1.842	2.795	6.8	21.2
11 17	4 1.52	+30 31.7	1.095	2.069	6.5	19.2	11 17	4 0.94	+20 48.3	1.801	2.784	2.7	20.9
11 27	3 51.57	+29 32.6	1.096	2.075	4.5	19.1	11 27	3 51.94	+20 16.9	1.789	2.773	1.7	20.8
12 7	3 42.58	+28 20.4	1.121	2.082	8.1	19.3	12 7	3 43.35	+19 44.9	1.805	2.762	6.0	21.1
12 17	3 36.05	+27 4.8	1.170	2.091	12.8	19.6	12 17	3 36.16	+19 16.1	1.849	2.752	9.9	21.3
12 27	3 32.93	+25 55.4	1.240	2.100	17.0	19.9	12 27	3 31.17	+18 54.2	1.917	2.742	13.4	21.5
487417	2014 <i>QW</i> ₃₈₄		11 23.1 153°81'	5°2'/19.8	18		43856	1993 <i>UV</i> ₄		11 23.1 330°07'	5°0'/20.3	18	
10 18	4 19.31	+4 35.2	2.539	3.348	11.4	22.1	10 18	4 18.34	+8 17.6	2.068	2.894	13.1	19.0
10 28	4 14.39	+3 39.8	2.471	3.354	9.1	21.9	10 28	4 14.11	+7 19.8	1.993	2.890	10.2	18.8
11 7	4 7.86	+2 48.8	2.427	3.359	6.8	21.8	11 7	4 7.92	+6 24.0	1.942	2.886	7.3	18.6
11 17	4 0.28	+2 6.1	2.412	3.364	5.3	21.7	11 17	4 0.38	+5 34.7	1.917	2.882	5.2	18.4
11 27	3 52.35	+1 35.5	2.425	3.369	5.8	21.7	11 27	3 52.34	+4 56.6	1.920	2.879	5.7	18.5
12 7	3 44.82	+1 19.2	2.467	3.373	7.7	21.9	12 7	3 44.73	+4 33.1	1.951	2.875	8.3	18.6
12 17	3 38.37	+1 18.1	2.536	3.377	10.0	22.0	12 17	3 38.38	+4 26.0	2.008	2.872	11.3	18.8
12 27	3 33.51	+1 31.7	2.628	3.380	12.2	22.2	12 27	3 33.94	+4 35.4	2.088	2.869	14.0	19.0
57964	2002 <i>LY</i> ₂₈		11 23.1 241°42'	4°5'/21.3	18		169048	2001 <i>FP</i> ₆₁		11 23.1 294°89'	7°0'/25.3	16	
10 18	4 24.86	+11 35.6	1.636	2.464	15.9	19.5	10 18	4 28.10	+35 10.7	1.730	2.512	17.0	20.6
10 28	4 19.73	+10 50.7	1.553	2.453	12.3	19.2	10 28	4 23.03	+36 21.2	1.636	2.497	14.1	20.4
11 7	4 11.87	+10 5.3	1.491	2.442	8.4	19.0	11 7	4 14.51	+37 19.3	1.563	2.481	10.9	20.1
11 17	4 1.98	+9 23.8	1.455	2.430	5.0	18.8	11 17	4 3.20	+37 58.3	1.514	2.465	8.0	19.9
11 27	3 51.24	+8 51.1	1.447	2.418	5.4	18.8	11 27	3 50.45	+38 13.7	1.491	2.449	7.0	19.8
12 7	3 40.98	+8 31.6	1.466	2.405	9.1	18.9	12 7	3 38.00	+38 5.3	1.495	2.434	9.0	19.9
12 17	3 32.43	+8 28.2	1.510	2.392	13.2	19.2	12 17	3 27.55	+37 37.8	1.524	2.419	12.3	20.1
12 27	3 26.49	+8 41.8	1.577	2.378	16.9	19.4	12 27	3 20.38	+36 59.5	1.577	2.404	15.7	20.3
327995	2007 <i>GV</i> ₅₂		11 23.1 196°93'	2°7'/21.4	18		278251	2007 <i>EF</i> ₁₇₇		11 23.1 178°07'	0°9'/23.6	18	
10 18	4 19.13	+14 2.0	2.502	3.318	11.4	21.3	10 18	4 25.87	+24 8.5	1.975	2.780	14.4	21.8
10 28	4 14.37	+13 14.1	2.420	3.316	8.7	21.1	10 28	4 20.10	+23 59.1	1.893	2.782	11.1	21.6
11 7	4 7.93	+12 24.3	2.363	3.314	5.7	20.9	11 7	4 11.88	+23 40.9	1.835	2.784	7.3	21.4
11 17	4 0.33	+11 35.3	2.335	3.312	3.1	20.8	11 17	4 1.94	+23 14.1	1.803	2.784	3.1	21.1
11 27	3 52.32	+10 50.7	2.337	3.310	3.3	20.8	11 27	3 51.37	+22 40.3	1.800	2.784	1.8	21.0
12 7	3 44.69	+10 13.6	2.368	3.307	6.1	20.9	12 7	3 41.35	+22 3.1	1.827	2.784	6.0	21.3
12 17	3 38.17	+9 46.6	2.428	3.305	9.1	21.1	12 17	3 32.96	+21 27.1	1.882	2.783	9.9	21.5
12 27	3 33.30	+9 31.2	2.513	3.302	11.7	21.3	12 27	3 26.96	+20 56.7	1.962	2.781	13.4	21.8
169036	2001 <i>FC</i> ₂₂		11 23.1 239°08'	0°1'/23.2	18		410936	2009 <i>SE</i> ₂₇₀		11 23.1 96°36'	3°5'/21.1	18	
10 18	4 24.76	+20 43.6	2.130	2.938	13.4	20.8	10 18	4 20.19	+11 26.6	2.294	3.112	12.2	21.5
10 28	4 19.23	+20 49.1	2.035	2.926	10.3	20.5	10 28	4 15.17	+10 38.2	2.232	3.127	9.3	21.3
11 7	4 11.35	+20 50.0	1.963	2.914	6.7	20.3	11 7	4 8.41	+9 50.4	2.194	3.142	6.3	21.2
11 17	4 1.75	+20 46.2	1.918	2.901	2.6	20.0	11 17	4 0.51	+9 6.4	2.185	3.157	3.8	21.1
11 27	3 51.37	+20 38.7	1.903	2.887	1.6	19.9	11 27	3 52.30	+8 29.8	2.204	3.172	4.2	21.1
12 7	3 41.33	+20 29.4	1.918	2.874	5.8	20.2	12 7	3 44.60	+8 3.7	2.253	3.187	6.7	21.3
12 17	3 32.66	+20 21.2	1.961	2.859	9.7	20.4	12 17	3 38.14	+7 49.6	2.330	3.201	9.6	21.5
12 27	3 26.17	+20 17.3	2.029	2.845	13.1	20.6	12 27	3 33.47	+7 48.3	2.431	3.215	12.2	21.7
175511	2006 <i>SP</i> ₂₀		11 23.1 18°00'	4°0'/24.7	18		450412	2005 <i>TX</i> ₁₁₇		11 23.1 84°24'	0°5'/23.4	17	
10 18	4 23.53	+29 50.2	1.601	2.413	16.9	19.7	10 18	4 22.25	+23 0.5	2.029	2.841	13.8	22.3
10 28	4 19.02	+30 19.6	1.530	2.416	13.4	19.5	10 28	4 17.21	+22 50.9	1.955	2.848	10.6	22.1
11 7	4 11.51	+30 36.2	1.480	2.421	9.5	19.3	11 7	4 9.95	+22 34.0	1.904	2.855	6.8	21.9
11 17	4 1.84	+30 37.1	1.454	2.426	5.5	19.1	11 17	4 1.17	+22 10.3	1.880	2.862	2.8	21.6
11 27	3 51.35	+30 21.9	1.454	2.431	4.2	19.0	11 27	3 51.87	+21 41.6	1.884	2.869	1.6	21.6
12 7	3 41.56	+29 53.8	1.481	2.437	7.2	19.2	12 7	3 43.13	+21 11.3	1.918	2.876	5.7	21.9
12 17	3 33.78	+29 18.3	1.534	2.444	11.1	19.5	12 17	3 35.88	+20 43.2	1.980	2.882	9.4	22.1
12 27	3 28.93	+28 42.2	1.610	2.451	14.7	19.7	12 27	3 30.83	+20 20.7	2.066	2.889	12.6	22.3
48749	1997 <i>GZ</i> ₆		11 23.1 258°35'	0°7'/23.4	18		359407	2010 <i>JW</i> ₉₉		11 23.1			

EPHEMERIDES

11 23.1

11 23.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
220384	2003 <i>QN</i> ₄₄		11 23.1	35°29	6°6/26.8	18	257268	2009 <i>FC</i> ₇₆		11 23.1	88°29	3°8/21.1	18
10 18	4 24.93	+37 55.6	1.669	2.450	17.6	18.9	10 18	4 21.58	+11 53.1	1.986	2.810	13.6	20.6
10 28	4 19.98	+38 27.2	1.615	2.472	14.4	18.7	10 28	4 16.48	+10 59.9	1.927	2.825	10.4	20.4
11 7	4 12.00	+38 38.9	1.581	2.495	11.0	18.6	11 7	4 9.36	+10 6.9	1.891	2.840	7.0	20.3
11 17	4 1.99	+38 27.2	1.570	2.519	8.0	18.4	11 17	4 0.94	+9 18.0	1.882	2.856	4.2	20.1
11 27	3 51.42	+37 51.9	1.584	2.543	6.6	18.4	11 27	3 52.15	+8 37.6	1.902	2.871	4.6	20.2
12 7	3 41.85	+36 57.4	1.625	2.568	8.0	18.6	12 7	3 43.98	+8 9.0	1.950	2.886	7.5	20.4
12 17	3 34.49	+35 51.4	1.692	2.594	10.8	18.8	12 17	3 37.25	+7 54.3	2.025	2.900	10.7	20.6
12 27	3 30.13	+34 42.5	1.783	2.619	13.7	19.0	12 27	3 32.57	+7 54.0	2.124	2.915	13.5	20.8
168162	2006 <i>HK</i> ₅₇		11 23.1	85°24	1°6/22.5	18	450418	2005 <i>TR</i> ₁₈₄		11 23.2	148°95	0°3/23.3	18
10 18	4 25.47	+17 10.2	1.811	2.631	14.9	20.2	10 18	4 22.04	+22 34.5	2.115	2.926	13.4	22.0
10 28	4 19.60	+16 52.9	1.755	2.653	11.3	20.0	10 28	4 17.03	+22 23.4	2.034	2.927	10.2	21.8
11 7	4 11.41	+16 32.6	1.722	2.676	7.2	19.8	11 7	4 9.87	+22 5.4	1.978	2.929	6.6	21.6
11 17	4 1.70	+16 11.1	1.715	2.698	3.0	19.6	11 17	4 1.20	+21 41.0	1.948	2.930	2.6	21.4
11 27	3 51.61	+15 50.9	1.738	2.720	2.6	19.7	11 27	3 51.98	+21 12.2	1.947	2.932	1.6	21.3
12 7	3 42.28	+15 35.2	1.789	2.741	6.6	20.0	12 7	3 43.25	+20 42.1	1.976	2.933	5.6	21.6
12 17	3 34.68	+15 26.5	1.868	2.762	10.4	20.2	12 17	3 35.93	+20 14.2	2.033	2.934	9.3	21.8
12 27	3 29.45	+15 26.7	1.970	2.783	13.6	20.5	12 27	3 30.73	+19 52.1	2.115	2.935	12.5	22.0
118972	2000 <i>WV</i> ₁₇₁		11 23.1	4°22	5°7/21.6	18	168645	2000 <i>DU</i> ₄₈		11 23.2	228°51	0°8/23.5	18
10 18	4 22.45	+5 11.3	1.696	2.522	15.5	18.6	10 18	4 23.20	+23 41.3	1.907	2.720	14.5	20.8
10 28	4 17.64	+5 2.9	1.627	2.522	12.2	18.4	10 28	4 18.20	+23 34.1	1.825	2.719	11.2	20.6
11 7	4 10.38	+5 3.1	1.580	2.522	8.8	18.2	11 7	4 10.77	+23 18.8	1.766	2.717	7.3	20.3
11 17	4 1.40	+5 15.2	1.557	2.523	6.1	18.0	11 17	4 1.58	+22 55.2	1.733	2.715	3.1	20.1
11 27	3 51.76	+5 41.8	1.562	2.525	6.2	18.1	11 27	3 51.73	+22 25.3	1.729	2.713	1.8	20.0
12 7	3 42.68	+6 23.7	1.594	2.527	9.1	18.2	12 7	3 42.41	+21 52.4	1.754	2.712	6.0	20.3
12 17	3 35.19	+7 19.6	1.652	2.530	12.5	18.4	12 17	3 34.67	+21 20.9	1.806	2.710	10.1	20.5
12 27	3 30.10	+8 27.5	1.732	2.533	15.7	18.7	12 27	3 29.31	+20 55.0	1.882	2.708	13.6	20.7
479429	2013 <i>YE</i> ₉₀		11 23.1	355°29	1°2/22.7	18	365400	2009 <i>WG</i> ₁₁₉		11 23.2	85°31	0°2/23.3	18
10 18	4 20.12	+19 41.2	1.184	2.038	19.0	21.3	10 18	4 21.87	+21 59.0	2.306	3.114	12.5	21.4
10 28	4 17.01	+19 19.8	1.116	2.033	14.6	21.0	10 28	4 16.58	+21 49.5	2.240	3.131	9.5	21.3
11 7	4 10.53	+18 50.5	1.068	2.029	9.4	20.7	11 7	4 9.40	+21 34.3	2.197	3.148	6.1	21.1
11 17	4 1.57	+18 15.6	1.043	2.027	3.7	20.4	11 17	4 0.97	+21 13.9	2.182	3.165	2.4	20.9
11 27	3 51.65	+17 39.4	1.042	2.026	2.9	20.3	11 27	3 52.17	+20 50.3	2.197	3.182	1.4	20.8
12 7	3 42.50	+17 7.7	1.065	2.025	8.6	20.7	12 7	3 43.91	+20 26.1	2.242	3.198	5.1	21.1
12 17	3 35.62	+16 45.7	1.112	2.026	13.9	21.0	12 17	3 36.98	+20 4.1	2.315	3.215	8.4	21.3
12 27	3 32.01	+16 37.4	1.178	2.028	18.4	21.2	12 27	3 31.97	+19 47.3	2.414	3.231	11.3	21.6
252622	2001 <i>XQ</i> ₁₃₃		11 23.1	37°11	0°1/23.1	18	379857	2012 <i>GP</i> ₂₆		11 23.2	333°42	4°3/24.3	18
10 18	4 20.97	+23 14.7	1.676	2.502	15.6	20.3	10 18	4 27.78	+27 43.7	1.293	2.117	19.5	20.5
10 28	4 16.56	+22 33.6	1.611	2.512	11.9	20.1	10 28	4 23.15	+28 32.7	1.219	2.114	15.5	20.2
11 7	4 9.65	+21 42.2	1.568	2.523	7.6	19.8	11 7	4 14.72	+29 10.9	1.164	2.110	10.8	19.9
11 17	4 1.07	+20 42.8	1.550	2.534	2.9	19.6	11 17	4 3.33	+29 33.4	1.132	2.107	6.1	19.7
11 27	3 52.01	+19 39.8	1.561	2.545	1.9	19.5	11 27	3 50.63	+29 37.8	1.125	2.104	4.6	19.6
12 7	3 43.70	+18 38.8	1.599	2.557	6.5	19.9	12 7	3 38.62	+29 26.0	1.144	2.101	8.5	19.8
12 17	3 37.15	+17 45.4	1.664	2.569	10.7	20.1	12 17	3 29.11	+29 4.1	1.187	2.099	13.4	20.1
12 27	3 33.07	+17 3.9	1.753	2.582	14.3	20.4	12 27	3 23.31	+28 40.2	1.251	2.097	17.8	20.3
145762	1997 <i>GC</i> ₁₂		11 23.1	252°91	0°7/22.9	18	86689	2000 <i>FN</i> ₄₅		11 23.2	168°32	3°9/21.5	18
10 18	4 25.10	+20 24.1	1.697	2.519	15.7	21.0	10 18	4 24.65	+12 1.3	1.766	2.590	15.1	20.0
10 28	4 20.03	+20 3.2	1.606	2.505	12.1	20.8	10 28	4 19.24	+11 22.7	1.693	2.592	11.6	19.8
11 7	4 12.16	+19 34.9	1.536	2.490	7.8	20.5	11 7	4 11.39	+10 44.2	1.644	2.595	7.8	19.6
11 17	4 2.17	+19 0.2	1.492	2.476	3.0	20.1	11 17	4 1.82	+10 9.5	1.621	2.596	4.4	19.4
11 27	3 51.25	+18 22.1	1.477	2.460	2.2	20.1	11 27	3 51.65	+9 42.7	1.626	2.598	4.7	19.4
12 7	3 40.77	+17 44.9	1.489	2.445	7.2	20.3	12 7	3 42.07	+9 27.2	1.659	2.599	8.1	19.6
12 17	3 32.01	+17 13.5	1.528	2.429	11.8	20.6	12 17	3 34.13	+9 25.3	1.718	2.600	11.9	19.9
12 27	3 25.94	+16 52.2	1.591	2.413	15.8	20.8	12 27	3 28.59	+9 37.5	1.801	2.600	15.2	20.1
136405	2005 <i>AV</i> ₁₆		11 23.1	298°37	2°6/21.9	18	448476	2010 <i>GJ</i> ₁₀₃		11 23.2	123°75	0°2/23.1	18
10 18	4 19.67	+13 43.8	2.172	2.994	12.7	20.3	10 18	4 27.51	+18 41.5	2.095	2.901	13.7	21.8
10 28	4 15.21	+13 23.7	2.080	2.979	9.7	20.1	10 28	4 21.10	+19 0.9	2.024	2.914	10.4	21.6
11 7	4 8.73	+13 3.0	2.012	2.965	6.4	19.9	11 7	4 12.43	+19 17.8	1.976	2.927	6.7	21.4
11 17	4 0.76	+12 43.8	1.971	2.950	3.2	19.6	11 17	4 2.20	+19 31.6	1.957	2.940	2.6	21.2
11 27	3 52.15	+12 28.8	1.959	2.936	3.3	19.6	11 27	3 51.42	+19 43.0	1.968	2.952	1.7	21.1
12 7	3 43.87	+12 20.5	1.976	2.922	6.6	19.8	12 7	3 41.20	+19 53.1	2.009	2.964	5.7	21.4
12 17	3 36.78	+12 20.9	2.020	2.907	10.1	20.0	12 17	3 32.50	+20 3.8	2.079	2.975	9.4	21.7
12 27	3 31.62	+12 31.4	2.088	2.893	13.2	20.2	12 27	3 26.05	+20 17.4	2.174	2.986	12.5	21.9
70540	1999 <i>TS</i> ₁₂₂		11 23.1	87°35	3°2/24.4	18	322930	2002 <i>ES</i> ₈₇		11 23.2	243°62	4°6/21.3	17
10 18	4 29.73	+27 55.9	1.802	2.598	15.9	20.0	10 18	4 24.99	+12 5.7	1.553	2.384	16.4	21.0
10 28	4 23.18	+28 30.7	1.742	2.621	12.4	19.8	10 28	4 20.00	+11 15.9	1.471	2.374	12.8	20.8
11 7	4 13.89	+28 55.0	1.704	2.644	8.5	19.7	11 7	4 12.17	+10 24.8	1.411	2.363	8.6	20.5
11 17	4 2.72	+29 6.1	1.693	2.666	4.6	19.5	11 17	4 2.22	+9 37.1	1.377	2.352	5.1	20.3
11 27	3 50.99	+29 3.7	1.710	2.688	3.4	19.4	11 27	3 51.39	+8 58.2	1.369	2.341	5.5	20.3
12 7	3 40.08	+28 50.3	1.756	2.710	6.4	19.7	12 7	3 41.09	+8 33.2	1.389	2.329	9.4	20.5
12 17	3 31.15	+28 30.3	1.829	2.731	10.1	19.9	12 17	3 32.57	+8 25.2	1.433	2.317	13.7	20.7
12 27	3 24.99	+28 9.5	1.927	2.752	13.4	20.2	12 27	3 26.80	+8 35.4	1.500	2.304	17.5	20.9
393767	2005 <i>GE</i> ₁₁₆		11 23.1	151°47	0°6/22.8	18	243290	2008 <i>DD</i> ₃₁					

EPHEMERIDES

11 23.2

11 23.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
204534	2005 <i>EP</i> ₁₁₈		11 23.2 269°89	2°1/24.2	18		38270	Wettzell		11 23.2 124°69	6°6/27.3	18	R
10 18	4 23.77	+27 49.7	1.906	2.710	14.9	20.5	10 18	4 31.85	+41 28.3	2.221	2.954	15.1	19.8
10 28	4 18.90	+27 40.5	1.809	2.694	11.7	20.3	10 28	4 24.77	+41 57.4	2.151	2.972	12.7	19.7
11 7	4 11.39	+27 19.2	1.734	2.678	8.0	20.0	11 7	4 14.92	+42 8.3	2.101	2.989	10.0	19.5
11 17	4 1.92	+26 44.7	1.685	2.662	4.0	19.7	11 17	4 3.21	+41 56.8	2.076	3.006	7.7	19.4
11 27	3 51.59	+25 58.4	1.664	2.646	2.5	19.6	11 27	3 50.92	+41 22.0	2.079	3.022	6.6	19.4
12 7	3 41.69	+25 4.2	1.672	2.630	6.3	19.8	12 7	3 39.48	+40 26.9	2.111	3.037	7.6	19.5
12 17	3 33.41	+24 7.9	1.707	2.613	10.4	20.0	12 17	3 30.03	+39 17.9	2.170	3.052	9.7	19.6
12 27	3 27.64	+23 15.8	1.767	2.597	14.2	20.2	12 27	3 23.37	+38 2.9	2.255	3.066	12.1	19.8
385651	2005 <i>RZ</i> ₁₄		11 23.2 26°57	3°8/21.8	18		216391	2008 <i>CR</i> ₁₇₉		11 23.2 348°78	8°5/19.2	18	
10 18	4 21.66	+14 51.1	1.176	2.031	19.1	20.9	10 18	4 17.71	+ 3 59.3	1.461	2.304	16.7	19.9
10 28	4 17.88	+14 6.9	1.123	2.039	14.6	20.6	10 28	4 14.41	+ 2 35.4	1.396	2.297	13.5	19.7
11 7	4 10.90	+13 20.2	1.089	2.048	9.5	20.4	11 7	4 8.52	+ 1 17.9	1.352	2.291	10.4	19.5
11 17	4 1.70	+12 35.9	1.077	2.058	4.8	20.1	11 17	4 0.80	+ 0 15.0	1.332	2.285	8.6	19.4
11 27	3 51.82	+12 0.1	1.091	2.069	4.9	20.2	11 27	3 52.38	- 0 25.7	1.336	2.281	9.4	19.4
12 7	3 42.89	+11 37.9	1.129	2.081	9.5	20.5	12 7	3 44.54	- 0 39.7	1.365	2.278	12.1	19.6
12 17	3 36.23	+11 32.4	1.190	2.094	14.2	20.8	12 17	3 38.40	- 0 26.1	1.416	2.275	15.4	19.8
12 27	3 32.69	+11 44.2	1.272	2.107	18.3	21.1	12 27	3 34.76	+ 0 12.5	1.486	2.274	18.4	20.0
469859	2005 <i>UD</i> ₁₈		11 23.2 36°64	1°2/22.7	18		33220	1998 <i>FS</i> ₁₀₉		11 23.2 185°71	2°2/24.6	18	
10 18	4 22.76	+20 43.1	1.225	2.072	19.0	20.6	10 18	4 23.23	+29 23.7	2.860	3.637	11.1	20.7
10 28	4 18.65	+20 3.7	1.171	2.084	14.5	20.4	10 28	4 17.51	+29 23.7	2.769	3.637	8.7	20.5
11 7	4 11.34	+19 15.1	1.137	2.097	9.2	20.1	11 7	4 10.01	+29 14.6	2.702	3.636	6.0	20.3
11 17	4 1.84	+18 20.2	1.126	2.110	3.6	19.8	11 17	4 1.28	+28 55.8	2.663	3.635	3.3	20.2
11 27	3 51.74	+17 24.9	1.141	2.125	2.8	19.8	11 27	3 52.08	+28 27.9	2.655	3.633	2.3	20.1
12 7	3 42.66	+16 35.7	1.181	2.140	8.2	20.2	12 7	3 43.26	+27 53.2	2.677	3.631	4.6	20.2
12 17	3 35.90	+15 58.4	1.246	2.156	13.1	20.5	12 17	3 35.58	+27 14.9	2.730	3.628	7.3	20.4
12 27	3 32.26	+15 36.6	1.331	2.172	17.3	20.8	12 27	3 29.63	+26 37.0	2.810	3.624	9.9	20.6
377241	2004 <i>BY</i> ₆₈		11 23.2 346°13	5°9/27.4	18		324334	2006 <i>PO</i>		11 23.2 134°78	1°0/23.6	16	
10 18	4 24.52	+42 15.6	1.144	1.942	23.1	18.8	10 18	4 28.58	+25 1.3	1.655	2.465	16.5	22.1
10 28	4 21.09	+40 47.8	1.062	1.932	19.2	18.5	10 28	4 22.49	+24 43.1	1.585	2.476	12.7	21.9
11 7	4 13.38	+38 33.3	0.996	1.924	14.4	18.2	11 7	4 13.57	+24 13.5	1.538	2.487	8.3	21.7
11 17	4 2.71	+35 28.5	0.951	1.916	9.2	17.9	11 17	4 2.71	+23 33.0	1.516	2.498	3.5	21.4
11 27	3 51.24	+31 40.5	0.933	1.910	5.9	17.7	11 27	3 51.24	+22 44.2	1.523	2.508	2.0	21.3
12 7	3 41.22	+27 29.7	0.942	1.905	8.9	17.9	12 7	3 40.61	+21 52.3	1.559	2.517	6.7	21.7
12 17	3 34.30	+23 22.7	0.979	1.902	14.3	18.2	12 17	3 32.01	+21 3.3	1.622	2.525	11.0	22.0
12 27	3 31.33	+19 42.8	1.039	1.900	19.5	18.5	12 27	3 26.24	+20 22.7	1.708	2.533	14.8	22.2
483402	1998 <i>SR</i> ₂₀		11 23.2 339°30	7°3/26.8	17		320982	2008 <i>JP</i> ₁₃		11 23.2 50°32	4°8/20.6	18	
10 18	4 27.34	+41 9.0	2.248	2.989	14.8	21.4	10 18	4 19.69	+ 9 49.7	1.891	2.720	14.0	20.6
10 28	4 21.70	+42 8.3	2.164	2.988	12.5	21.2	10 28	4 15.21	+ 8 47.5	1.831	2.731	10.8	20.4
11 7	4 13.24	+42 52.2	2.101	2.988	10.1	21.0	11 7	4 8.67	+ 7 47.0	1.794	2.742	7.5	20.2
11 17	4 2.66	+43 15.6	2.063	2.987	8.1	20.9	11 17	4 0.77	+ 6 52.9	1.784	2.753	5.1	20.1
11 27	3 51.16	+43 15.8	2.051	2.986	7.3	20.9	11 27	3 52.46	+ 6 10.1	1.802	2.765	5.5	20.1
12 7	3 40.13	+42 53.7	2.067	2.986	8.2	20.9	12 7	3 44.74	+ 5 42.3	1.847	2.777	8.3	20.3
12 17	3 30.84	+42 13.8	2.109	2.985	10.2	21.1	12 17	3 38.47	+ 5 31.1	1.919	2.789	11.4	20.5
12 27	3 24.25	+41 23.2	2.175	2.985	12.6	21.2	12 27	3 34.26	+ 5 36.6	2.013	2.801	14.2	20.8
488959	2005 <i>UQ</i> ₂₂₆		11 23.2 8°05	0°2/23.2	16		141611	2002 <i>JP</i> ₁₂		11 23.2 89°93	3°7/21.0	18	
10 18	4 20.97	+21 0.6	1.116	1.971	19.9	21.3	10 18	4 29.26	+17 49.9	1.519	2.342	17.1	19.3
10 28	4 17.86	+21 7.0	1.055	1.972	15.3	21.0	10 28	4 22.58	+15 55.7	1.471	2.371	12.9	19.1
11 7	4 11.19	+21 6.0	1.013	1.974	9.9	20.7	11 7	4 13.31	+13 54.2	1.446	2.400	8.3	18.9
11 17	4 1.92	+20 57.8	0.993	1.977	3.9	20.4	11 17	4 2.49	+11 52.9	1.448	2.427	4.3	18.7
11 27	3 51.67	+20 44.4	0.997	1.982	2.4	20.3	11 27	3 51.48	+10 1.2	1.481	2.454	4.8	18.8
12 7	3 42.30	+20 30.1	1.025	1.988	8.3	20.7	12 7	3 41.62	+ 8 27.3	1.542	2.481	8.8	19.1
12 17	3 35.38	+20 20.0	1.076	1.996	13.8	21.0	12 17	3 33.88	+ 7 16.4	1.630	2.506	12.7	19.4
12 27	3 31.91	+20 18.2	1.148	2.004	18.3	21.4	12 27	3 28.88	+ 6 29.9	1.740	2.531	16.0	19.7
444617	2006 <i>VG</i> ₄₅		11 23.2 353°64	0°4/23.4	18		75825	2000 <i>BX</i> ₁₆		11 23.2 220°91	3°9/24.8	18	R
10 18	4 21.68	+23 5.7	1.791	2.611	15.0	21.0	10 18	4 27.05	+30 17.3	1.564	2.370	17.5	19.1
10 28	4 17.18	+22 48.1	1.712	2.610	11.5	20.8	10 28	4 21.93	+30 34.1	1.486	2.369	13.9	18.8
11 7	4 10.18	+22 21.8	1.656	2.609	7.5	20.5	11 7	4 13.57	+30 36.6	1.428	2.368	9.8	18.6
11 17	4 1.41	+21 47.5	1.625	2.608	3.0	20.2	11 17	4 2.83	+30 21.6	1.394	2.366	5.7	18.3
11 27	3 51.99	+21 7.8	1.623	2.608	1.8	20.2	11 27	3 51.15	+29 49.2	1.387	2.365	4.1	18.3
12 7	3 43.13	+20 27.0	1.649	2.607	6.3	20.5	12 7	3 40.17	+29 3.3	1.407	2.363	7.4	18.4
12 17	3 35.92	+19 49.8	1.701	2.607	10.5	20.7	12 17	3 31.33	+28 10.8	1.453	2.362	11.7	18.7
12 27	3 31.14	+19 20.4	1.778	2.607	14.1	20.9	12 27	3 25.64	+27 19.7	1.522	2.360	15.6	18.9
386012	2007 <i>DB</i> ₃₁		11 23.2 330°47	1°2/23.6	18		124042	2001 <i>FF</i> ₁₄₀		11 23.2 137°00	0°2/23.3	18	
10 18	4 22.12	+23 30.4	1.277	2.119	18.7	20.9	10 18	4 21.18	+22 7.0	2.655	3.457	11.2	21.0
10 28	4 18.66	+23 34.5	1.199	2.107	14.6	20.6	10 28	4 15.92	+21 58.3	2.577	3.465	8.6	20.8
11 7	4 11.75	+23 28.6	1.139	2.096	9.6	20.3	11 7	4 8.97	+21 44.3	2.524	3.474	5.5	20.7
11 17	4 2.20	+23 12.0	1.103	2.086	4.1	20.0	11 17	4 0.87	+21 25.5	2.499	3.482	2.2	20.4
11 27	3 51.46	+22 46.1	1.091	2.076	2.4	19.8	11 27	3 52.39	+21 3.5	2.505	3.489	1.3	20.4
12 7	3 41.33	+22 15.6	1.105	2.067	8.0	20.2	12 7	3 44.31	+20 40.4	2.541	3.497	4.6	20.6
12 17	3 33.41	+21 46.4	1.143	2.059	13.4	20.4	12 17	3 37.36	+20 18.9	2.607	3.504	7.7	20.9
12 27	3 28.85	+21 24.8	1.201	2.052	18.0	20.7	12 27	3 32.11	+20 1.6	2.699	3.511	10.3	21.0
177167	2003 <i>SL</i> ₁₃₁		11 23.2 28°66	4°4/21.4	18		409088	2003 <i>SO</i>					

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
14241	2000 <i>AO</i> ₅		11 23.2 192°77	0°7/22.7	18	R	419139	2009 <i>SV</i> ₂₇₄		11 23.2 84°52	5°7/26.1	18	
10 18	4 20.10	+18 51.6	2.911	3.714	10.3	18.6	10 18	4 29.69	+37 2.6	2.291	3.044	14.2	20.7
10 28	4 15.01	+18 36.4	2.822	3.713	7.8	18.5	10 28	4 23.02	+37 57.8	2.227	3.067	11.7	20.6
11 7	4 8.37	+18 17.9	2.759	3.710	5.0	18.3	11 7	4 13.81	+38 38.9	2.186	3.090	9.0	20.5
11 17	4 0.66	+17 57.0	2.725	3.708	2.0	18.1	11 17	4 2.84	+39 2.2	2.170	3.112	6.6	20.3
11 27	3 52.54	+17 35.4	2.721	3.704	1.5	18.0	11 27	3 51.26	+39 5.8	2.183	3.134	5.7	20.3
12 7	3 44.74	+17 15.1	2.749	3.701	4.6	18.2	12 7	3 40.32	+38 51.5	2.225	3.156	6.9	20.4
12 17	3 37.90	+16 58.3	2.806	3.697	7.4	18.4	12 17	3 31.11	+38 23.7	2.294	3.178	9.2	20.6
12 27	3 32.57	+16 47.0	2.890	3.693	10.0	18.6	12 27	3 24.42	+37 48.5	2.389	3.199	11.6	20.8
437199	2012 <i>WP</i> ₄		11 23.2 28°56	2°2/23.7	18		46058	2001 <i>DE</i> ₈₈		11 23.2 111°04	3°5/21.2	18	
10 18	4 25.57	+22 39.6	1.048	1.898	21.2	19.5	10 18	4 22.80	+13 37.1	1.987	2.808	13.7	19.4
10 28	4 21.31	+23 27.6	1.007	1.919	16.3	19.3	10 28	4 17.46	+12 33.3	1.924	2.822	10.5	19.2
11 7	4 13.28	+24 7.2	0.985	1.942	10.6	19.1	11 7	4 10.06	+11 27.6	1.886	2.836	6.9	19.1
11 17	4 2.68	+24 35.3	0.985	1.967	4.7	18.8	11 17	4 1.33	+10 24.3	1.874	2.850	4.0	18.9
11 27	3 51.38	+24 51.5	1.008	1.992	3.0	18.8	11 27	3 52.22	+ 9 28.2	1.892	2.863	4.3	19.0
12 7	3 41.36	+24 58.3	1.057	2.019	8.2	19.2	12 7	3 43.75	+ 8 43.6	1.939	2.876	7.4	19.2
12 17	3 34.13	+25 0.8	1.128	2.047	13.3	19.6	12 17	3 36.75	+ 8 13.4	2.013	2.889	10.7	19.4
12 27	3 30.56	+25 4.4	1.220	2.076	17.5	19.9	12 27	3 31.85	+ 7 58.7	2.111	2.901	13.6	19.6
316556	2011 <i>BD</i> ₁₀₂		11 23.2 93°26	3°8/25.2	17		485876	2012 <i>FC</i> ₃₁		11 23.2 150°01	2°5/24.8	17	
10 18	4 23.83	+32 18.3	2.363	3.142	13.1	20.8	10 18	4 23.56	+30 11.3	3.174	3.943	10.3	22.7
10 28	4 18.40	+32 42.8	2.286	3.150	10.5	20.7	10 28	4 17.61	+30 31.3	3.091	3.953	8.1	22.6
11 7	4 10.79	+32 56.1	2.231	3.158	7.6	20.5	11 7	4 10.03	+30 43.6	3.033	3.962	5.7	22.5
11 17	4 1.64	+32 56.2	2.203	3.166	4.8	20.3	11 17	4 1.33	+30 46.7	3.004	3.971	3.4	22.3
11 27	3 51.94	+32 42.8	2.204	3.175	3.8	20.3	11 27	3 52.21	+30 40.8	3.005	3.979	2.6	22.3
12 7	3 42.74	+32 17.9	2.234	3.183	5.7	20.4	12 7	3 43.44	+30 27.2	3.038	3.987	4.3	22.4
12 17	3 34.96	+31 45.5	2.292	3.191	8.5	20.6	12 17	3 35.70	+30 8.2	3.101	3.995	6.7	22.6
12 27	3 29.33	+31 10.5	2.376	3.199	11.2	20.8	12 27	3 29.57	+29 47.1	3.191	4.002	8.9	22.7
346265	2008 <i>FA</i> ₁₀₇		11 23.2 28°34	0°5/23.5	18		492913	2014 <i>RN</i> ₃		11 23.2 0°02	6°4/25.9	17	
10 18	4 17.97	+22 33.2	3.054	3.854	9.9	21.4	10 18	4 24.49	+35 52.2	1.834	2.616	16.2	20.7
10 28	4 13.39	+22 37.0	2.968	3.855	7.6	21.2	10 28	4 19.83	+36 45.0	1.755	2.615	13.4	20.5
11 7	4 7.34	+22 36.4	2.908	3.856	4.9	21.1	11 7	4 12.21	+37 23.0	1.697	2.614	10.2	20.3
11 17	4 0.26	+22 31.7	2.876	3.857	2.0	20.9	11 17	4 2.36	+37 41.7	1.663	2.614	7.4	20.1
11 27	3 52.80	+22 23.5	2.874	3.858	1.2	20.8	11 27	3 51.55	+37 38.7	1.655	2.614	6.4	20.1
12 7	3 45.62	+22 13.5	2.903	3.860	4.0	21.0	12 7	3 41.30	+37 15.6	1.673	2.615	8.0	20.2
12 17	3 39.36	+22 3.6	2.962	3.861	6.8	21.2	12 17	3 32.94	+36 37.8	1.718	2.616	10.9	20.3
12 27	3 34.52	+21 55.7	3.047	3.862	9.2	21.4	12 27	3 27.46	+35 52.5	1.786	2.618	13.9	20.5
454167	2013 <i>FX</i> ₁₄		11 23.2 131°16	2°1/22.2	18		185040	2006 <i>QS</i> ₁₃₇		11 23.2 351°10	17°6/11.2	17	
10 18	4 23.54	+13 20.5	2.521	3.327	11.6	21.9	10 18	4 18.48	- 1 22.1	0.903	1.768	22.6	18.8
10 28	4 17.69	+13 17.2	2.449	3.340	8.8	21.8	10 28	4 16.12	- 5 42.4	0.862	1.763	19.6	18.6
11 7	4 10.10	+13 14.3	2.403	3.352	5.7	21.6	11 7	4 10.14	- 9 50.2	0.842	1.759	17.8	18.5
11 17	4 1.33	+13 13.2	2.385	3.364	2.8	21.4	11 17	4 1.57	-13 19.9	0.843	1.756	18.0	18.5
11 27	3 52.17	+13 15.2	2.397	3.375	2.7	21.4	11 27	3 52.12	-15 50.4	0.864	1.754	19.9	18.6
12 7	3 43.45	+13 21.7	2.441	3.386	5.5	21.6	12 7	3 43.66	-17 12.9	0.902	1.753	22.7	18.8
12 17	3 35.90	+13 33.9	2.513	3.397	8.5	21.8	12 17	3 37.70	-17 30.2	0.954	1.753	25.7	19.0
12 27	3 30.11	+13 52.5	2.612	3.407	11.1	22.0	12 27	3 35.19	-16 52.8	1.017	1.754	28.2	19.2
3190	Aposhanskij		11 23.2 52°84	4°8/25.5	18		371818	2007 <i>TY</i> ₃₄₉		11 23.2 178°09	5°7/28.3	18	
10 18	4 25.01	+33 27.9	2.012	2.795	14.9	17.5	10 18	4 28.40	+47 25.7	3.889	4.559	10.1	23.2
10 28	4 19.71	+34 3.7	1.940	2.805	12.1	17.3	10 28	4 21.41	+48 1.1	3.797	4.561	8.8	23.1
11 7	4 11.82	+34 26.2	1.889	2.814	8.9	17.1	11 7	4 12.54	+48 23.5	3.727	4.563	7.4	23.0
11 17	4 2.10	+34 32.6	1.864	2.824	5.9	17.0	11 17	4 2.34	+48 30.1	3.683	4.564	6.3	22.9
11 27	3 51.69	+34 21.8	1.866	2.834	4.8	16.9	11 27	3 51.62	+48 19.6	3.666	4.564	5.7	22.9
12 7	3 41.90	+33 56.3	1.897	2.844	6.7	17.1	12 7	3 41.24	+47 52.8	3.679	4.564	6.1	22.9
12 17	3 33.83	+33 20.7	1.955	2.855	9.7	17.3	12 17	3 32.03	+47 12.3	3.720	4.563	7.1	23.0
12 27	3 28.30	+32 41.4	2.037	2.865	12.6	17.5	12 27	3 24.62	+46 22.5	3.788	4.561	8.4	23.1
324184	2006 <i>AT</i> ₄₁		11 23.2 178°86	2°1/24.6	17		440084	2002 <i>TE</i> ₁₆₇		11 23.2 7°95	7°4/27.3	17	
10 18	4 21.97	+29 1.8	2.591	3.377	11.9	21.3	10 18	4 18.36	+38 32.7	1.180	1.997	21.5	20.3
10 28	4 16.72	+28 53.1	2.504	3.378	9.3	21.2	10 28	4 16.22	+38 36.2	1.119	1.999	17.8	20.1
11 7	4 9.59	+28 34.5	2.441	3.379	6.4	21.0	11 7	4 10.28	+38 10.9	1.074	2.003	13.5	19.8
11 17	4 1.16	+28 5.6	2.405	3.379	3.4	20.8	11 17	4 1.63	+37 13.0	1.049	2.009	9.5	19.6
11 27	3 52.28	+27 27.7	2.399	3.379	2.3	20.7	11 27	3 52.11	+35 44.1	1.048	2.016	7.4	19.6
12 7	3 43.82	+26 43.5	2.423	3.379	4.8	20.9	12 7	3 43.72	+33 53.0	1.070	2.026	9.2	19.7
12 17	3 36.59	+25 56.9	2.477	3.378	7.8	21.1	12 17	3 38.01	+31 52.9	1.115	2.037	13.1	19.9
12 27	3 31.22	+25 12.3	2.557	3.378	10.6	21.3	12 27	3 35.88	+29 57.4	1.183	2.050	17.1	20.2
48648	1995 <i>UQ</i> ₁₂		11 23.2 1°12	2°2/23.8	18		232550	2003 <i>SP</i> ₂₀₀		11 23.2 19°68	4°7/19.6	18	
10 18	4 19.75	+24 8.0	1.014	1.873	21.1	17.6	10 18	4 19.97	+15 19.9	1.770	2.603	14.7	18.9
10 28	4 17.42	+24 29.9	0.952	1.870	16.4	17.3	10 28	4 15.57	+13 4.0	1.704	2.609	11.2	18.7
11 7	4 11.22	+24 40.9	0.908	1.868	10.9	17.0	11 7	4 8.97	+10 40.9	1.663	2.616	7.5	18.5
11 17	4 2.05	+24 39.1	0.885	1.868	5.0	16.7	11 17	4 0.94	+ 8 18.9	1.651	2.624	4.9	18.4
11 27	3 51.71	+24 25.2	0.885	1.869	3.0	16.6	11 27	3 52.53	+ 6 7.7	1.668	2.632	5.8	18.5
12 7	3 42.26	+24 4.0	0.907	1.872	8.7	16.9	12 7	3 44.81	+ 4 15.8	1.715	2.641	9.1	18.7
12 17	3 35.47	+23 41.9	0.952	1.877	14.4	17.3	12 17	3 38.66	+ 2 48.8	1.788	2.650	12.5	18.9
12 27	3 32.49	+23 25.7	1.015	1.884	19.2	17.6	12 27	3 34.70	+ 1 48.3	1.883	2.660	15.5	19.1
437926	2002 <i>PH</i> ₁₀₅		11 23.2 99°08	5°6/26.7	18		54251	2000 <i>JO</i> ₂₆					

EPHEMERIDES

11 23.2

11 23.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
514167	2015 <i>MY</i> ₇		11 23.2 216°90	3°8/21.4	18		444516	2006 <i>SW</i> ₆₅		11 23.2 64°94	5°5/20.5	18	
10 18	4 24.31	+11 42.5	1.978	2.795	13.9	22.6	10 18	4 21.76	+9 5.1	1.710	2.541	15.2	21.4
10 28	4 18.90	+11 4.4	1.893	2.788	10.8	22.4	10 28	4 16.93	+7 55.1	1.657	2.557	11.8	21.3
11 7	4 11.21	+10 26.3	1.832	2.781	7.3	22.2	11 7	4 9.85	+6 47.8	1.627	2.573	8.3	21.1
11 17	4 1.89	+9 51.3	1.798	2.772	4.2	22.0	11 17	4 1.30	+5 48.9	1.622	2.589	5.8	21.0
11 27	3 51.90	+9 23.5	1.792	2.764	4.5	22.0	11 27	3 52.36	+5 3.7	1.645	2.605	6.3	21.0
12 7	3 42.35	+9 6.1	1.816	2.754	7.7	22.1	12 7	3 44.14	+4 36.2	1.695	2.622	9.1	21.2
12 17	3 34.21	+9 1.4	1.867	2.744	11.3	22.3	12 17	3 37.55	+4 27.7	1.770	2.638	12.3	21.5
12 27	3 28.27	+9 10.4	1.941	2.734	14.5	22.5	12 27	3 33.23	+4 37.7	1.868	2.655	15.2	21.7
46220	2001 <i>FW</i> ₁₈₉		11 23.2 85°96	0°2/23.3	18		271558	2004 <i>JQ</i> ₃₂		11 23.2 72°24	1°7/22.8	18	
10 18	4 22.12	+22 12.1	2.347	3.152	12.4	19.3	10 18	4 31.01	+15 27.3	1.484	2.307	17.5	20.0
10 28	4 16.78	+22 1.2	2.281	3.172	9.4	19.1	10 28	4 24.25	+15 41.5	1.437	2.336	13.3	19.8
11 7	4 9.58	+21 44.3	2.240	3.191	6.0	18.9	11 7	4 14.63	+15 55.3	1.411	2.365	8.4	19.6
11 17	4 1.17	+21 22.4	2.227	3.209	2.4	18.7	11 17	4 3.16	+16 8.9	1.412	2.394	3.5	19.4
11 27	3 52.40	+20 57.0	2.244	3.228	1.4	18.7	11 27	3 51.26	+16 23.4	1.440	2.423	2.8	19.4
12 7	3 44.18	+20 31.1	2.290	3.247	5.0	19.0	12 7	3 40.39	+16 40.3	1.497	2.451	7.3	19.8
12 17	3 37.27	+20 7.4	2.366	3.265	8.3	19.2	12 17	3 31.72	+17 1.2	1.580	2.479	11.6	20.1
12 27	3 32.26	+19 48.9	2.467	3.283	11.1	19.4	12 27	3 25.97	+17 27.7	1.687	2.506	15.2	20.4
76043	2000 <i>DN</i> ₅₄		11 23.2 139°85	2°3/24.6	18		430866	2005 <i>PP</i> ₉		11 23.2 47°10	1°4/22.7	18	
10 18	4 22.07	+29 5.3	2.622	3.407	11.8	20.1	10 18	4 25.84	+18 23.8	1.200	2.045	19.4	20.4
10 28	4 16.79	+29 10.4	2.540	3.413	9.2	19.9	10 28	4 20.97	+18 9.5	1.153	2.065	14.7	20.2
11 7	4 9.65	+29 6.4	2.482	3.419	6.4	19.7	11 7	4 12.83	+17 50.1	1.126	2.085	9.4	20.0
11 17	4 1.23	+28 52.5	2.452	3.424	3.5	19.6	11 17	4 2.52	+17 27.9	1.123	2.107	3.7	19.7
11 27	3 52.34	+28 29.4	2.451	3.430	2.5	19.5	11 27	3 51.65	+17 6.3	1.145	2.128	2.9	19.7
12 7	3 43.89	+27 59.4	2.480	3.435	4.8	19.7	12 7	3 41.92	+16 49.7	1.192	2.151	8.2	20.1
12 17	3 36.64	+27 25.8	2.539	3.439	7.7	19.9	12 17	3 34.61	+16 41.8	1.264	2.173	13.1	20.5
12 27	3 31.24	+26 52.5	2.624	3.444	10.3	20.0	12 27	3 30.53	+16 45.2	1.357	2.196	17.1	20.8
365303	2009 <i>RT</i> ₆₈		11 23.2 92°84	3°6/21.1	18		143404	2003 <i>BD</i> ₄₄		11 23.2 91°98	1°4/22.7	17 A	
10 18	4 19.67	+11 58.3	2.233	3.053	12.4	21.3	10 18	4 42.82	+19 4.5	1.648	2.438	17.4	20.8
10 28	4 14.97	+11 5.2	2.164	3.061	9.5	21.1	10 28	4 32.39	+18 30.1	1.610	2.492	13.1	20.7
11 7	4 8.46	+10 11.8	2.120	3.069	6.4	21.0	11 7	4 19.33	+17 49.7	1.596	2.544	8.2	20.5
11 17	4 0.75	+9 21.8	2.104	3.077	3.9	20.8	11 17	4 4.81	+17 5.2	1.611	2.593	3.2	20.3
11 27	3 52.65	+8 39.0	2.116	3.085	4.2	20.9	11 27	3 50.35	+16 20.8	1.658	2.640	2.6	20.4
12 7	3 45.04	+8 6.8	2.158	3.093	6.9	21.0	12 7	3 37.39	+15 41.3	1.736	2.684	7.1	20.8
12 17	3 38.66	+7 47.4	2.227	3.101	9.9	21.2	12 17	3 26.93	+15 10.7	1.843	2.727	11.1	21.1
12 27	3 34.10	+7 41.6	2.320	3.108	12.6	21.4	12 27	3 19.54	+14 51.7	1.975	2.767	14.3	21.4
488370	2016 <i>WB</i> ₃₅		11 23.2 279°08	1°6/23.8	18		474898	2005 <i>SJ</i> ₁₈₄		11 23.2 359°50	0°1/23.2	18	
10 18	4 24.37	+24 49.1	1.763	2.577	15.5	20.9	10 18	4 18.44	+22 13.5	1.081	1.941	20.0	20.2
10 28	4 19.60	+24 54.7	1.670	2.562	12.1	20.7	10 28	4 16.09	+21 52.7	1.017	1.937	15.4	19.9
11 7	4 12.02	+24 51.4	1.598	2.547	8.1	20.4	11 7	4 10.18	+21 20.1	0.972	1.934	10.0	19.6
11 17	4 2.31	+24 38.1	1.552	2.533	3.7	20.1	11 17	4 1.65	+20 37.5	0.949	1.933	3.9	19.3
11 27	3 51.63	+24 15.6	1.534	2.518	2.2	20.0	11 27	3 52.11	+19 49.7	0.948	1.933	2.4	19.2
12 7	3 41.35	+23 46.9	1.544	2.503	6.6	20.2	12 7	3 43.44	+19 3.6	0.972	1.935	8.6	19.6
12 17	3 32.75	+23 16.8	1.581	2.488	11.0	20.5	12 17	3 37.18	+18 26.2	1.018	1.939	14.2	19.9
12 27	3 26.81	+22 50.5	1.641	2.473	15.0	20.7	12 27	3 34.37	+18 2.9	1.084	1.944	18.9	20.2
484062	2006 <i>HZ</i> ₁₄		11 23.2 220°96	2°1/21.8	18		107972	2001 <i>FM</i> ₁₂₇		11 23.2 299°85	2°1/23.9	17	
10 18	4 19.00	+15 17.2	2.791	3.601	10.5	21.9	10 18	4 25.12	+24 41.6	2.176	2.976	13.4	19.8
10 28	4 14.25	+14 36.5	2.700	3.594	8.0	21.7	10 28	4 19.67	+25 24.3	2.085	2.969	10.5	19.6
11 7	4 7.94	+13 53.3	2.635	3.586	5.2	21.5	11 7	4 11.82	+26 2.0	2.018	2.962	7.1	19.4
11 17	4 0.55	+13 9.7	2.599	3.578	2.6	21.3	11 17	4 2.19	+26 32.5	1.978	2.955	3.5	19.2
11 27	3 52.76	+12 28.6	2.593	3.570	2.7	21.3	11 27	3 51.74	+26 54.6	1.967	2.948	2.5	19.1
12 7	3 45.27	+11 53.0	2.618	3.561	5.4	21.5	12 7	3 41.58	+27 8.9	1.986	2.941	5.7	19.3
12 17	3 38.74	+11 25.2	2.672	3.552	8.2	21.7	12 17	3 32.80	+27 17.4	2.034	2.935	9.3	19.5
12 27	3 33.72	+11 6.9	2.752	3.542	10.7	21.8	12 27	3 26.24	+27 23.6	2.106	2.928	12.5	19.7
84727	2002 <i>WL</i> ₆		11 23.2 285°73	0°9/23.6	17		475094	2005 <i>UC</i> ₂₀₀		11 23.2 79°12	0°0/23.2	18	
10 18	4 22.56	+23 59.4	1.917	2.731	14.4	20.1	10 18	4 28.61	+20 57.9	1.521	2.343	17.2	21.6
10 28	4 17.98	+23 49.9	1.818	2.712	11.2	19.9	10 28	4 22.53	+20 56.5	1.468	2.366	13.1	21.4
11 7	4 10.86	+23 31.6	1.742	2.692	7.4	19.6	11 7	4 13.60	+20 48.5	1.436	2.390	8.4	21.2
11 17	4 1.83	+23 4.3	1.691	2.673	3.1	19.3	11 17	4 2.79	+20 34.3	1.430	2.413	3.2	20.9
11 27	3 51.93	+22 29.6	1.669	2.654	1.8	19.2	11 27	3 51.48	+20 16.0	1.451	2.436	2.0	20.9
12 7	3 42.37	+21 51.1	1.676	2.635	6.2	19.4	12 7	3 41.15	+19 57.2	1.500	2.458	6.9	21.2
12 17	3 34.31	+21 13.5	1.710	2.615	10.5	19.6	12 17	3 32.94	+19 42.0	1.576	2.480	11.3	21.6
12 27	3 28.64	+20 41.6	1.768	2.596	14.2	19.8	12 27	3 27.61	+19 33.9	1.675	2.502	14.9	21.8
443163	2014 <i>CD</i> ₁₉		11 23.2 240°27	2°0/24.0	18		99105	2001 <i>FJ</i> ₅₃		11 23.2 209°41	0°2/23.3	18	
10 18	4 26.35	+25 53.0	1.958	2.760	14.6	22.0	10 18	4 24.40	+21 35.7	2.152	2.959	13.3	20.3
10 28	4 20.85	+26 4.6	1.863	2.748	11.5	21.8	10 28	4 18.93	+21 31.7	2.064	2.955	10.2	20.1
11 7	4 12.69	+26 7.4	1.790	2.735	7.7	21.5	11 7	4 11.23	+21 21.8	1.999	2.950	6.6	19.9
11 17	4 2.55	+26 0.0	1.744	2.723	3.7	21.2	11 17	4 1.91	+21 6.4	1.962	2.945	2.6	19.6
11 27	3 51.50	+25 42.6	1.727	2.709	2.4	21.1	11 27	3 51.95	+20 46.8	1.954	2.939	1.6	19.5
12 7	3 40.83	+25 17.8	1.739	2.696	6.2	21.3	12 7	3 42.40	+20 25.7	1.976	2.933	5.6	19.8
12 17	3 31.75	+24 49.6	1.778	2.682	10.3	21.5	12 17	3 34.23	+20 6.3	2.027	2.926	9.4	20.0
12 27	3 25.17	+24 23.3	1.843	2.667	13.9	21.8	12 27	3 28.21	+19 51.9	2.102	2.919	12.7	20.2
113871	2002 <i>TH</i> ₂₅₉		11 23.2 54°62	2°8/22.4	18		440722	2006 <i>AV</i> ₃₅		11 23.2			

EPHEMERIDES

11 23.2

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
268656	2006 <i>DS</i> ₂₁₆		11 23.2 126°57'	1.6°/24.2	18		271924	2004 <i>XA</i> ₈₈		11 23.2 281°11'	4.3°/26.1	18	
10 18	4 21.95	+26 28.6	2.697	3.487	11.4	21.1	10 18	4 23.55	+36 28.8	2.458	3.219	13.1	20.5
10 28	4 16.58	+26 31.9	2.619	3.497	8.8	20.9	10 28	4 18.40	+36 18.6	2.346	3.197	10.8	20.3
11 7	4 9.47	+26 27.7	2.565	3.507	5.9	20.7	11 7	4 10.96	+35 52.6	2.257	3.173	8.1	20.0
11 17	4 1.16	+26 15.8	2.540	3.517	2.9	20.6	11 17	4 1.86	+35 9.0	2.194	3.150	5.5	19.8
11 27	3 52.45	+25 57.0	2.545	3.527	1.8	20.5	11 27	3 52.05	+34 7.7	2.159	3.126	4.3	19.7
12 7	3 44.16	+25 33.4	2.580	3.536	4.5	20.7	12 7	3 42.64	+32 52.1	2.154	3.102	5.9	19.8
12 17	3 37.03	+25 7.9	2.645	3.545	7.4	20.9	12 17	3 34.62	+31 27.8	2.179	3.079	8.8	19.9
12 27	3 31.64	+24 43.8	2.736	3.553	10.1	21.1	12 27	3 28.78	+30 1.6	2.230	3.054	11.8	20.1
183273	2002 <i>TP</i> ₂₅₈		11 23.2 57°07'	2.6°/22.4	18		247284	2001 <i>ST</i> ₁₉₉		11 23.2 8°45'	1.8°/22.5	18	
10 18	4 26.46	+15 50.5	1.272	2.113	18.7	19.5	10 18	4 19.61	+17 34.6	1.402	2.248	17.1	19.7
10 28	4 21.26	+15 29.2	1.224	2.133	14.2	19.3	10 28	4 16.11	+17 15.4	1.338	2.250	13.0	19.5
11 7	4 12.95	+15 5.7	1.195	2.153	9.1	19.1	11 7	4 9.78	+16 52.1	1.294	2.253	8.4	19.2
11 17	4 2.57	+14 43.0	1.191	2.173	4.0	18.8	11 17	4 1.43	+16 27.0	1.273	2.257	3.5	18.9
11 27	3 51.66	+14 24.7	1.212	2.193	3.7	18.9	11 27	3 52.35	+16 3.7	1.279	2.262	3.0	18.9
12 7	3 41.80	+14 14.7	1.260	2.214	8.4	19.2	12 7	3 43.98	+15 46.3	1.311	2.268	7.8	19.2
12 17	3 34.25	+14 15.6	1.332	2.235	13.0	19.5	12 17	3 37.51	+15 38.2	1.367	2.275	12.3	19.5
12 27	3 29.79	+14 28.7	1.426	2.256	16.9	19.8	12 27	3 33.81	+15 41.7	1.445	2.283	16.3	19.8
487444	2014 <i>RE</i> ₆₂		11 23.2 62°71'	1.6°/24.2	18		100688	1997 <i>YU</i> ₅		11 23.2 339°84'	3.8°/24.9	17	
10 18	4 21.84	+27 28.5	2.076	2.879	13.9	20.5	10 18	4 17.18	+30 20.9	1.337	2.170	18.5	19.1
10 28	4 16.96	+27 6.7	2.002	2.888	10.7	20.3	10 28	4 15.01	+30 20.2	1.250	2.149	14.8	18.8
11 7	4 9.89	+26 33.6	1.952	2.897	7.2	20.1	11 7	4 9.53	+30 1.3	1.183	2.130	10.5	18.5
11 17	4 1.36	+25 49.8	1.928	2.907	3.4	19.9	11 17	4 1.49	+29 22.1	1.137	2.113	5.9	18.2
11 27	3 52.37	+24 57.6	1.933	2.917	2.0	19.8	11 27	3 52.28	+28 23.7	1.116	2.097	4.0	18.0
12 7	3 43.99	+24 1.3	1.968	2.926	5.4	20.0	12 7	3 43.62	+27 11.7	1.119	2.082	7.9	18.2
12 17	3 37.13	+23 5.9	2.030	2.936	9.0	20.3	12 17	3 37.08	+25 55.3	1.147	2.069	12.8	18.4
12 27	3 32.45	+22 16.3	2.118	2.946	12.2	20.5	12 27	3 33.77	+24 43.9	1.196	2.058	17.4	18.7
479537	2014 <i>BS</i> ₃₉		11 23.2 293°63'	0.5°/23.4	18		488551	2001 <i>TB</i> ₂₃₀		11 23.2 47°53'	2.1°/23.9	16	
10 18	4 24.32	+22 3.9	1.519	2.347	16.9	21.6	10 18	4 27.81	+24 46.7	1.230	2.062	19.8	21.3
10 28	4 19.94	+22 5.1	1.430	2.331	13.1	21.3	10 28	4 22.62	+25 5.9	1.183	2.085	15.2	21.1
11 7	4 12.45	+21 58.7	1.362	2.316	8.6	21.0	11 7	4 13.98	+25 13.9	1.156	2.109	10.0	20.9
11 17	4 2.56	+21 44.5	1.318	2.301	3.5	20.6	11 17	4 3.04	+25 9.4	1.152	2.133	4.6	20.6
11 27	3 51.55	+21 23.7	1.301	2.286	2.0	20.5	11 27	3 51.49	+24 53.5	1.173	2.157	2.7	20.6
12 7	3 40.98	+21 0.1	1.311	2.271	7.4	20.8	12 7	3 41.13	+24 30.7	1.221	2.182	7.6	21.0
12 17	3 32.30	+20 38.4	1.347	2.256	12.4	21.1	12 17	3 33.34	+24 6.9	1.293	2.207	12.4	21.3
12 27	3 26.59	+20 23.6	1.405	2.242	16.7	21.3	12 27	3 28.94	+23 48.1	1.387	2.232	16.4	21.6
419093	2009 <i>SQ</i> ₁₄₆		11 23.2 26°93'	3.3°/21.6	17		520645	2014 <i>PL</i> ₇₇		11 23.2 127°43'	1.0°/22.6	18	
10 18	4 19.02	+14 33.4	1.714	2.550	14.9	21.0	10 18	4 21.36	+18 48.4	2.312	3.124	12.3	22.0
10 28	4 15.00	+13 42.5	1.654	2.561	11.3	20.8	10 28	4 16.31	+18 23.2	2.237	3.131	9.4	21.8
11 7	4 8.72	+12 49.4	1.616	2.572	7.4	20.6	11 7	4 9.39	+17 53.6	2.185	3.138	6.0	21.7
11 17	4 0.92	+11 58.4	1.604	2.583	3.9	20.4	11 17	4 1.19	+17 21.4	2.162	3.145	2.4	21.4
11 27	3 52.66	+11 14.1	1.620	2.596	4.1	20.5	11 27	3 52.56	+16 49.1	2.169	3.151	2.0	21.4
12 7	3 45.05	+10 40.9	1.663	2.609	7.6	20.7	12 7	3 44.40	+16 19.7	2.205	3.158	5.5	21.7
12 17	3 39.02	+10 21.4	1.732	2.622	11.3	21.0	12 17	3 37.50	+15 55.9	2.270	3.164	8.8	21.9
12 27	3 35.23	+10 16.9	1.823	2.636	14.5	21.2	12 27	3 32.47	+15 40.2	2.360	3.170	11.7	22.1
99934	2001 <i>DL</i> ₅		11 23.2 16°50'	0.6°/23.4	18		319586	2006 <i>SQ</i> ₁₂₂		11 23.2 90°48'	7.1°/26.7	18	
10 18	4 24.52	+20 15.2	1.065	1.919	20.7	18.1	10 18	4 28.84	+39 20.8	1.966	2.723	16.1	20.3
10 28	4 20.80	+20 45.7	1.007	1.923	16.0	17.8	10 28	4 23.03	+40 10.7	1.893	2.731	13.5	20.1
11 7	4 13.26	+21 11.5	0.968	1.928	10.4	17.5	11 7	4 14.20	+40 43.7	1.839	2.739	10.6	20.0
11 17	4 2.88	+21 30.9	0.950	1.934	4.2	17.2	11 17	4 3.19	+40 54.6	1.810	2.747	8.1	19.9
11 27	3 51.44	+21 44.1	0.957	1.942	2.4	17.1	11 27	3 51.33	+40 41.3	1.807	2.755	7.1	19.8
12 7	3 40.95	+21 53.4	0.987	1.950	8.6	17.5	12 7	3 40.15	+40 5.9	1.832	2.763	8.2	19.9
12 17	3 33.12	+22 2.6	1.041	1.960	14.1	17.9	12 17	3 30.99	+39 14.4	1.883	2.770	10.7	20.1
12 27	3 29.02	+22 16.0	1.114	1.971	18.7	18.2	12 27	3 24.77	+38 14.8	1.958	2.778	13.4	20.3
3724	Annenskij		11 23.2 23°09'	2.5°/24.5	18		132501	2002 <i>JG</i> ₃₅		11 23.2 148°01'	0.8°/22.8	18	
10 18	4 21.65	+28 58.2	1.521	2.341	17.2	15.3	10 18	4 24.55	+19 41.9	2.122	2.932	13.4	20.9
10 28	4 17.60	+28 39.5	1.455	2.348	13.5	15.0	10 28	4 18.89	+19 18.8	2.047	2.940	10.2	20.8
11 7	4 10.66	+28 5.1	1.409	2.356	9.1	14.8	11 7	4 11.10	+18 50.3	1.996	2.948	6.5	20.5
11 17	4 1.73	+27 15.0	1.387	2.365	4.6	14.6	11 17	4 1.87	+18 18.0	1.973	2.956	2.5	20.3
11 27	3 52.17	+26 12.4	1.392	2.374	2.8	14.5	11 27	3 52.16	+17 44.4	1.979	2.963	1.9	20.3
12 7	3 43.45	+25 3.3	1.424	2.385	6.8	14.8	12 7	3 42.99	+17 12.8	2.015	2.969	5.8	20.5
12 17	3 36.74	+23 55.4	1.481	2.395	11.1	15.0	12 17	3 35.27	+16 46.7	2.080	2.975	9.5	20.8
12 27	3 32.86	+22 55.4	1.562	2.407	14.9	15.3	12 27	3 29.66	+16 28.7	2.170	2.980	12.6	21.0
37304	2001 <i>EW</i> ₂₃		11 23.2 11°08'	6.1°/25.9	18		401050	2011 <i>UG</i> ₆		11 23.2 37°04'	0.3°/23.4	17	
10 18	4 23.67	+35 28.3	1.761	2.548	16.6	18.2	10 18	4 23.29	+21 48.7	1.680	2.504	15.7	21.4
10 28	4 19.24	+36 13.4	1.687	2.551	13.6	18.1	10 28	4 18.56	+21 47.1	1.610	2.509	12.1	21.2
11 7	4 11.84	+36 42.9	1.634	2.554	10.3	17.9	11 7	4 11.19	+21 38.6	1.562	2.516	7.8	20.9
11 17	4 2.26	+36 52.6	1.604	2.558	7.3	17.7	11 17	4 1.97	+21 23.6	1.539	2.522	3.1	20.7
11 27	3 51.81	+36 40.8	1.600	2.563	6.2	17.6	11 27	3 52.09	+21 3.9	1.544	2.529	1.8	20.6
12 7	3 42.00	+36 10.0	1.623	2.568	7.8	17.8	12 7	3 42.85	+20 42.9	1.577	2.536	6.5	20.9
12 17	3 34.14	+35 25.8	1.672	2.574	10.9	18.0	12 17	3 35.38	+20 24.4	1.636	2.543	10.7	21.2
12 27	3 29.17	+34 35.9	1.744	2.580	14.0	18.2	12 27	3 30.49	+20 12.3	1.719	2.550	14.4	21.4
486485	2013 <i>GD</i> ₈₂		11 23.2 240°06'	0.9°/23.8	17		472948	20					

EPHEMERIDES

11 23.2

11 23.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
64382	2001 <i>UC</i> ₁₃₀		11 23.2 195°83	0°8/22.8	18		519825	2013 <i>JN</i> ₆₆		11 23.2 91°43	1°2/22.7	18	
10 18	4 25.41	+19 51.2	1.878	2.693	14.6	20.3	10 18	4 22.70	+17 4.0	2.208	3.021	12.8	21.5
10 28	4 19.95	+19 28.7	1.795	2.691	11.2	20.1	10 28	4 17.39	+16 58.3	2.139	3.034	9.7	21.3
11 7	4 12.01	+19 0.0	1.736	2.689	7.2	19.9	11 7	4 10.11	+16 50.4	2.094	3.046	6.2	21.1
11 17	4 2.30	+18 26.5	1.703	2.686	2.8	19.6	11 17	4 1.50	+16 41.4	2.076	3.059	2.5	20.9
11 27	3 51.91	+17 51.0	1.699	2.683	2.1	19.5	11 27	3 52.45	+16 33.0	2.088	3.071	2.1	20.9
12 7	3 42.06	+17 17.3	1.725	2.679	6.5	19.8	12 7	3 43.91	+16 27.3	2.130	3.083	5.6	21.1
12 17	3 33.80	+16 49.6	1.778	2.675	10.6	20.1	12 17	3 36.70	+16 26.2	2.200	3.095	9.0	21.4
12 27	3 27.95	+16 31.1	1.855	2.671	14.2	20.3	12 27	3 31.45	+16 31.5	2.296	3.107	12.0	21.6
346329	2008 <i>RZ</i> ₁₈		11 23.2 131°82	3°2/24.7	18		34474	2000 <i>SJ</i> ₁₁₆		11 23.2 14°88	1°3/22.7	18	
10 18	4 27.91	+29 30.4	1.831	2.626	15.7	22.1	10 18	4 21.51	+17 46.8	1.884	2.708	14.2	18.5
10 28	4 22.03	+29 41.0	1.757	2.635	12.4	21.9	10 28	4 16.92	+17 32.4	1.809	2.709	10.9	18.3
11 7	4 13.40	+29 39.1	1.706	2.644	8.6	21.7	11 7	4 10.03	+17 14.5	1.756	2.711	7.0	18.1
11 17	4 2.84	+29 22.7	1.679	2.653	4.8	21.5	11 17	4 1.53	+16 54.5	1.730	2.713	2.8	17.9
11 27	3 51.61	+28 52.5	1.682	2.661	3.3	21.4	11 27	3 52.43	+16 35.1	1.732	2.715	2.3	17.8
12 7	3 41.09	+28 11.9	1.713	2.668	6.4	21.6	12 7	3 43.84	+16 19.3	1.763	2.717	6.4	18.1
12 17	3 32.45	+27 26.7	1.771	2.675	10.2	21.8	12 17	3 36.74	+16 9.7	1.820	2.720	10.3	18.3
12 27	3 26.53	+26 43.1	1.854	2.682	13.6	22.1	12 27	3 31.89	+16 8.6	1.902	2.722	13.7	18.6
61203	2000 <i>OY</i> ₄		11 23.2 114°82	1°4/22.6	18		175773	1998 <i>XY</i> ₁₇		11 23.2 53°21	1°4/22.7	18	
10 18	4 24.69	+19 31.7	1.728	2.550	15.4	19.2	10 18	4 24.06	+16 52.9	1.785	2.609	14.9	20.3
10 28	4 19.40	+18 52.3	1.660	2.560	11.7	19.0	10 28	4 18.98	+16 52.0	1.712	2.612	11.4	20.1
11 7	4 11.60	+18 6.2	1.614	2.569	7.5	18.7	11 7	4 11.41	+16 49.1	1.661	2.616	7.3	19.8
11 17	4 2.10	+17 15.8	1.595	2.578	3.0	18.5	11 17	4 2.08	+16 45.1	1.637	2.619	3.0	19.6
11 27	3 52.07	+16 25.4	1.604	2.586	2.5	18.5	11 27	3 52.10	+16 41.9	1.640	2.623	2.4	19.5
12 7	3 42.74	+15 39.8	1.641	2.594	6.9	18.8	12 7	3 42.66	+16 41.7	1.672	2.627	6.7	19.8
12 17	3 35.17	+15 3.3	1.705	2.603	11.0	19.0	12 17	3 34.86	+16 46.8	1.732	2.631	10.7	20.1
12 27	3 30.08	+14 39.2	1.793	2.610	14.5	19.3	12 27	3 29.46	+16 59.1	1.814	2.635	14.2	20.3
268680	2006 <i>FM</i> ₄₄		11 23.2 231°26	4°2/20.5	17		38992	2000 <i>UN</i> ₂₀		11 23.2 329°89	0°0/23.2	18 R	
10 18	4 18.69	+ 9 14.1	2.430	3.248	11.6	20.6	10 18	4 22.01	+20 52.7	1.967	2.785	14.0	19.6
10 28	4 14.21	+ 8 16.9	2.351	3.244	9.0	20.4	10 28	4 17.32	+20 49.7	1.885	2.782	10.7	19.4
11 7	4 8.03	+ 7 20.8	2.297	3.240	6.4	20.2	11 7	4 10.32	+20 41.4	1.826	2.779	6.9	19.1
11 17	4 0.68	+ 6 29.3	2.270	3.237	4.4	20.1	11 17	4 1.66	+20 28.1	1.793	2.776	2.7	18.9
11 27	3 52.91	+ 5 46.5	2.273	3.233	4.8	20.1	11 27	3 52.34	+20 11.5	1.788	2.773	1.7	18.8
12 7	3 45.50	+ 5 15.7	2.305	3.229	7.2	20.3	12 7	3 43.48	+19 54.4	1.813	2.771	5.9	19.1
12 17	3 39.17	+ 4 58.7	2.364	3.225	9.9	20.5	12 17	3 36.07	+19 39.9	1.865	2.768	9.9	19.3
12 27	3 34.49	+ 4 56.1	2.446	3.221	12.4	20.6	12 27	3 30.89	+19 31.1	1.941	2.766	13.3	19.5
347345	2012 <i>QQ</i> ₉		11 23.2 47°45	0°4/23.4	18		225709	2001 <i>QA</i> ₂₅₂		11 23.2 129°95	1°5/22.6	18	
10 18	4 25.55	+22 35.6	1.288	2.124	18.8	20.7	10 18	4 27.29	+17 37.3	1.835	2.650	14.9	21.2
10 28	4 20.72	+22 25.3	1.237	2.143	14.4	20.5	10 28	4 21.21	+17 19.6	1.768	2.663	11.4	21.0
11 7	4 12.70	+22 5.6	1.207	2.163	9.3	20.3	11 7	4 12.70	+16 58.1	1.723	2.676	7.3	20.8
11 17	4 2.55	+21 37.1	1.200	2.184	3.7	20.0	11 17	4 2.54	+16 34.6	1.706	2.689	3.0	20.5
11 27	3 51.84	+21 3.3	1.220	2.204	2.1	20.0	11 27	3 51.85	+16 11.6	1.718	2.700	2.5	20.5
12 7	3 42.20	+20 29.2	1.265	2.226	7.5	20.4	12 7	3 41.85	+15 52.4	1.759	2.712	6.6	20.8
12 17	3 34.91	+20 0.3	1.335	2.247	12.3	20.7	12 17	3 33.56	+15 39.9	1.828	2.722	10.6	21.1
12 27	3 30.75	+19 41.0	1.428	2.269	16.2	21.0	12 27	3 27.71	+15 36.6	1.921	2.732	13.9	21.3
378176	2006 <i>WB</i> ₁₆₂		11 23.2 288°18	1°1/22.9	18		321163	2008 <i>VH</i> ₄		11 23.2 13°23	0°7/23.5	18	
10 18	4 26.68	+17 16.1	1.460	2.291	17.3	21.4	10 18	4 22.93	+23 48.2	1.479	2.309	17.2	20.0
10 28	4 21.69	+17 26.5	1.382	2.285	13.3	21.2	10 28	4 18.68	+23 32.5	1.408	2.310	13.3	19.7
11 7	4 13.55	+17 35.1	1.324	2.280	8.6	20.9	11 7	4 11.48	+23 6.2	1.358	2.312	8.6	19.5
11 17	4 3.02	+17 42.2	1.290	2.274	3.5	20.6	11 17	4 2.16	+22 29.9	1.332	2.314	3.6	19.2
11 27	3 51.45	+17 49.1	1.284	2.268	2.5	20.5	11 27	3 52.07	+21 46.5	1.332	2.317	2.0	19.1
12 7	3 40.44	+17 57.8	1.305	2.262	7.8	20.8	12 7	3 42.71	+21 1.2	1.360	2.320	7.1	19.4
12 17	3 31.40	+18 10.9	1.351	2.256	12.7	21.1	12 17	3 35.34	+20 19.9	1.413	2.324	11.8	19.7
12 27	3 25.39	+18 31.0	1.420	2.251	16.9	21.3	12 27	3 30.86	+19 47.9	1.488	2.328	15.8	20.0
223838	2004 <i>TV</i> ₁₄₄		11 23.2 45°23	1°7/24.0	18		293427	2007 <i>EU</i> ₁₃₁		11 23.2 85°27	6°8/19.1	18	
10 18	4 23.23	+25 27.8	1.826	2.639	15.1	20.0	10 18	4 19.68	+ 2 10.4	2.223	3.034	12.8	20.2
10 28	4 18.27	+25 36.5	1.764	2.655	11.6	19.8	10 28	4 14.93	+ 0 52.7	2.169	3.049	10.3	20.1
11 7	4 10.87	+25 36.2	1.724	2.672	7.7	19.6	11 7	4 8.44	- 0 18.1	2.140	3.063	8.0	19.9
11 17	4 1.82	+25 26.2	1.710	2.690	3.6	19.4	11 17	4 0.83	- 1 16.7	2.137	3.078	6.8	19.9
11 27	3 52.25	+25 7.8	1.725	2.708	2.2	19.3	11 27	3 52.90	- 1 58.5	2.162	3.092	7.3	20.0
12 7	3 43.38	+24 44.1	1.767	2.726	5.9	19.6	12 7	3 45.49	- 2 20.9	2.215	3.106	9.2	20.1
12 17	3 36.23	+24 19.2	1.837	2.745	9.7	19.8	12 17	3 39.30	- 2 23.3	2.293	3.121	11.4	20.3
12 27	3 31.50	+23 57.5	1.931	2.763	13.0	20.1	12 27	3 34.88	- 2 7.3	2.393	3.135	13.5	20.5
228717	2002 <i>SM</i> ₄₄		11 23.2 19°49	3°9/24.2	18		315591	2008 <i>CM</i> ₁₁₉		11 23.2 291°94	2°7/22.2	17	
10 18	4 26.69	+26 23.3	1.214	2.047	20.0	20.0	10 18	4 22.40	+13 28.0	1.905	2.729	14.1	20.9
10 28	4 22.38	+27 15.7	1.151	2.051	15.7	19.7	10 28	4 17.72	+13 15.6	1.815	2.714	10.9	20.6
11 7	4 14.29	+27 57.9	1.106	2.056	10.8	19.5	11 7	4 10.67	+13 3.3	1.747	2.700	7.2	20.4
11 17	4 3.36	+28 25.5	1.084	2.061	5.8	19.2	11 17	4 1.84	+12 53.2	1.706	2.685	3.6	20.1
11 27	3 51.29	+28 36.4	1.087	2.068	4.2	19.1	11 27	3 52.23	+12 47.9	1.693	2.671	3.5	20.1
12 7	3 40.08	+28 32.7	1.115	2.075	8.4	19.4	12 7	3 42.95	+12 49.8	1.708	2.656	7.2	20.3
12 17	3 31.44	+28 20.1	1.167	2.083	13.3	19.7	12 17	3 35.07	+13 0.7	1.750	2.642	11.1	20.5
12 27	3 26.49	+28 6.0	1.240	2.091	17.6	20.0	12 27	3 29.42	+13 21.8	1.816	2.628	14.6	20.7
210641	2000 <i>GA</i> ₁₁₆		11 23.2 198°49	3°0/24.8	18		229065						

EPHEMERIDES

11 23.2

11 23.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
455715	2005 <i>GX</i> ₂₁		11 23.2 296°40	3°5/24.5	18		423871	2006 <i>RF</i> ₃₄		11 23.2 62°66	2°4/22.5	18	
10 18	4 25.06	+28 50.5	2.296	3.083	13.2	21.0	10 18	4 29.04	+16 18.4	1.226	2.065	19.4	20.9
10 28	4 19.81	+29 37.7	2.188	3.060	10.5	20.8	10 28	4 23.24	+15 59.2	1.184	2.092	14.7	20.7
11 7	4 12.11	+30 18.1	2.103	3.038	7.5	20.6	11 7	4 14.24	+15 37.5	1.161	2.118	9.4	20.5
11 17	4 2.47	+30 48.7	2.046	3.015	4.5	20.3	11 17	4 3.16	+15 15.9	1.162	2.145	4.0	20.3
11 27	3 51.82	+31 7.6	2.017	2.992	3.6	20.2	11 27	3 51.65	+14 58.1	1.190	2.172	3.5	20.3
12 7	3 41.29	+31 15.1	2.018	2.969	6.1	20.4	12 7	3 41.36	+14 47.8	1.244	2.198	8.4	20.7
12 17	3 32.03	+31 13.3	2.048	2.946	9.4	20.5	12 17	3 33.53	+14 47.8	1.322	2.225	13.1	21.0
12 27	3 24.96	+31 6.6	2.103	2.924	12.5	20.7	12 27	3 28.91	+14 59.6	1.422	2.251	17.0	21.3
354398	2003 <i>UD</i> ₂₀		11 23.2 6°21	1°6/22.4	18		135546	2002 <i>EY</i> ₈		11 23.2 169°19	3°2/24.6	18	
10 18	4 20.58	+21 42.7	1.478	2.315	16.8	20.0	10 18	4 30.31	+29 12.3	1.762	2.556	16.3	20.8
10 28	4 16.74	+20 30.0	1.407	2.315	12.8	19.7	10 28	4 24.08	+29 24.1	1.683	2.560	12.9	20.6
11 7	4 10.13	+19 4.9	1.358	2.316	8.2	19.5	11 7	4 14.87	+29 23.2	1.625	2.564	8.9	20.4
11 17	4 1.61	+17 31.6	1.333	2.317	3.3	19.2	11 17	4 3.52	+29 7.3	1.593	2.567	4.9	20.2
11 27	3 52.45	+15 57.5	1.337	2.319	2.9	19.2	11 27	3 51.36	+28 36.6	1.590	2.569	3.4	20.1
12 7	3 44.05	+14 30.7	1.367	2.322	7.8	19.5	12 7	3 39.90	+27 54.7	1.615	2.571	6.7	20.3
12 17	3 37.54	+13 18.6	1.423	2.325	12.4	19.7	12 17	3 30.42	+27 7.7	1.668	2.572	10.8	20.5
12 27	3 33.73	+12 25.6	1.501	2.329	16.3	20.0	12 27	3 23.85	+26 22.4	1.745	2.572	14.4	20.8
516819	2010 <i>RT</i> ₄₂		11 23.2 108°75	0°2/23.1	18		153534	2001 <i>SH</i> ₆₆		11 23.2 70°52	4°5/21.3	18	
10 18	4 22.50	+21 37.9	2.027	2.841	13.7	21.7	10 18	4 23.25	+12 37.5	1.541	2.376	16.3	19.9
10 28	4 17.51	+21 15.4	1.952	2.847	10.5	21.5	10 28	4 18.56	+11 39.7	1.476	2.381	12.6	19.7
11 7	4 10.33	+20 45.9	1.899	2.852	6.7	21.3	11 7	4 11.22	+10 40.7	1.433	2.385	8.4	19.5
11 17	4 1.64	+20 10.8	1.874	2.857	2.6	21.0	11 17	4 2.06	+9 45.5	1.414	2.390	5.0	19.3
11 27	3 52.43	+19 32.7	1.878	2.862	1.7	21.0	11 27	3 52.27	+9 0.0	1.423	2.395	5.3	19.3
12 7	3 43.76	+18 55.1	1.911	2.867	5.8	21.3	12 7	3 43.19	+8 29.0	1.459	2.399	9.0	19.5
12 17	3 36.57	+18 22.1	1.971	2.872	9.6	21.5	12 17	3 35.91	+8 15.3	1.519	2.404	12.9	19.8
12 27	3 31.54	+17 56.9	2.057	2.877	12.8	21.7	12 27	3 31.23	+8 19.6	1.601	2.409	16.4	20.0
45585	2000 <i>CA</i> ₈₉		11 23.2 79°81	9°8/17.3	18		229634	2006 <i>EE</i> ₄₃		11 23.2 151°43	0°6/22.9	18	
10 18	4 19.02	-10 6.5	2.365	3.139	13.2	18.3	10 18	4 21.82	+17 59.4	2.893	3.694	10.4	20.8
10 28	4 14.41	-11 22.1	2.315	3.147	11.6	18.2	10 28	4 16.37	+18 1.9	2.812	3.701	7.9	20.6
11 7	4 8.12	-12 22.9	2.288	3.154	10.3	18.2	11 7	4 9.34	+18 2.4	2.757	3.707	5.1	20.5
11 17	4 0.73	-13 3.4	2.285	3.161	9.8	18.1	11 17	4 1.24	+18 1.2	2.731	3.714	2.0	20.3
11 27	3 52.99	-13 19.7	2.307	3.168	10.2	18.2	11 27	3 52.75	+17 59.4	2.736	3.720	1.5	20.2
12 7	3 45.71	-13 10.5	2.354	3.176	11.4	18.3	12 7	3 44.59	+17 58.3	2.773	3.725	4.5	20.5
12 17	3 39.57	-12 37.0	2.423	3.183	12.9	18.4	12 17	3 37.43	+17 59.6	2.839	3.730	7.3	20.7
12 27	3 35.12	-11 42.5	2.512	3.190	14.5	18.5	12 27	3 31.80	+18 4.7	2.931	3.735	9.8	20.8
444525	2006 <i>SW</i> ₁₁₄		11 23.2 358°78	3°1/24.5	17		388602	2007 <i>RX</i> ₂₀₂		11 23.3 179°53	2°4/24.4	18	
10 18	4 24.31	+28 13.4	1.781	2.587	15.7	21.6	10 18	4 26.49	+27 57.0	2.187	2.977	13.7	21.7
10 28	4 19.50	+28 34.4	1.701	2.586	12.4	21.4	10 28	4 20.62	+28 6.8	2.102	2.978	10.7	21.5
11 7	4 11.93	+28 44.6	1.644	2.586	8.5	21.1	11 7	4 12.41	+28 7.0	2.040	2.979	7.3	21.3
11 17	4 2.36	+28 41.9	1.611	2.586	4.7	20.9	11 17	4 2.52	+27 56.0	2.004	2.979	3.9	21.0
11 27	3 51.97	+28 26.4	1.606	2.586	3.3	20.8	11 27	3 51.98	+27 34.5	1.999	2.979	2.6	21.0
12 7	3 42.15	+28 0.7	1.629	2.586	6.5	21.0	12 7	3 41.93	+27 4.8	2.023	2.979	5.6	21.2
12 17	3 34.09	+27 29.6	1.678	2.586	10.4	21.3	12 17	3 33.37	+26 31.2	2.076	2.977	9.1	21.4
12 27	3 28.70	+26 59.0	1.752	2.587	14.0	21.5	12 27	3 27.09	+25 58.4	2.154	2.976	12.3	21.6
451863	2014 <i>HX</i> ₁		11 23.2 131°39	1°6/23.9	15		395024	2009 <i>CQ</i> ₃₇		11 23.3 289°39	3°2/21.8	18	
10 18	4 28.09	+24 44.7	2.492	3.278	12.3	22.2	10 18	4 22.24	+14 10.9	1.763	2.592	14.9	21.5
10 28	4 21.39	+25 9.6	2.418	3.295	9.5	22.0	10 28	4 17.64	+13 33.7	1.685	2.587	11.4	21.3
11 7	4 12.65	+25 28.3	2.369	3.311	6.3	21.9	11 7	4 10.61	+12 54.5	1.630	2.583	7.5	21.1
11 17	4 2.53	+25 39.6	2.348	3.326	3.0	21.7	11 17	4 1.84	+12 16.6	1.600	2.579	3.9	20.8
11 27	3 51.91	+25 43.3	2.359	3.341	1.9	21.6	11 27	3 52.39	+11 44.1	1.599	2.575	4.0	20.8
12 7	3 41.79	+25 40.9	2.400	3.355	4.9	21.8	12 7	3 43.46	+11 21.0	1.625	2.571	7.7	21.1
12 17	3 33.02	+25 35.0	2.472	3.368	8.1	22.1	12 17	3 36.08	+11 10.0	1.677	2.567	11.6	21.3
12 27	3 26.26	+25 28.8	2.570	3.381	10.8	22.3	12 27	3 31.05	+11 12.8	1.753	2.563	15.1	21.5
16072	1999 <i>RE</i> ₁₂₈		11 23.2 66°49	3°5/21.8	18		183765	2004 <i>BJ</i> ₃		11 23.3 284°74	1°7/22.6	18	
10 18	4 25.18	+13 36.2	1.550	2.381	16.4	19.6	10 18	4 24.39	+18 13.2	1.464	2.298	17.1	20.5
10 28	4 19.76	+12 56.8	1.501	2.404	12.5	19.4	10 28	4 20.02	+17 50.9	1.378	2.284	13.2	20.3
11 7	4 11.79	+12 17.1	1.474	2.428	8.2	19.2	11 7	4 12.56	+17 22.7	1.313	2.270	8.6	20.0
11 17	4 2.18	+11 40.9	1.472	2.451	4.3	19.1	11 17	4 2.73	+16 50.6	1.272	2.255	3.5	19.6
11 27	3 52.18	+11 12.4	1.499	2.474	4.4	19.1	11 27	3 51.82	+16 18.2	1.258	2.241	3.0	19.6
12 7	3 43.08	+10 55.1	1.552	2.498	8.0	19.4	12 7	3 41.39	+15 50.1	1.270	2.226	8.1	19.8
12 17	3 35.87	+10 51.1	1.631	2.521	11.9	19.7	12 17	3 32.86	+15 31.1	1.308	2.212	13.1	20.1
12 27	3 31.24	+11 0.9	1.733	2.544	15.2	20.0	12 27	3 27.29	+15 24.7	1.367	2.198	17.5	20.3
405236	2003 <i>SU</i> ₁₂₁		11 23.2 14°99	13°3/29.5	17		421717	2014 <i>PJ</i> ₂₇		11 23.3 4°55	0°3/23.4	18	
10 18	4 36.50	+53 49.5	1.976	2.648	18.5	20.1	10 18	4 21.96	+21 54.1	1.990	2.806	13.9	20.8
10 28	4 30.75	+55 55.1	1.909	2.652	16.8	20.0	10 28	4 17.27	+21 52.0	1.911	2.806	10.7	20.6
11 7	4 20.36	+57 38.7	1.860	2.657	15.2	19.9	11 7	4 10.29	+21 43.8	1.854	2.806	6.9	20.4
11 17	4 6.04	+58 50.1	1.831	2.662	13.9	19.8	11 17	4 1.70	+21 29.8	1.824	2.806	2.8	20.1
11 27	3 49.66	+59 21.7	1.823	2.668	13.3	19.8	11 27	3 52.49	+21 11.6	1.822	2.807	1.6	20.0
12 7	3 33.81	+59 12.8	1.838	2.674	13.5	19.8	12 7	3 43.75	+20 51.9	1.850	2.808	5.8	20.3
12 17	3 20.92	+58 29.0	1.874	2.681	14.5	19.9	12 17	3 36.47	+20 34.0	1.904	2.809	9.6	20.6
12 27	3 12.63	+57 21.6	1.931	2.688	15.8	20.0	12 27	3 31.40	+20 21.4	1.984	2.810	13.0	20.8
279311	2009 <i>WC</i> ₂₅₂		11 23.2 255°98	0°0/23.2	18		378065						

EPHEMERIDES

11 23.3

11 23.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
475819	2007 <i>AR</i> ₁₁		11 23.3 230°90	3°1/24.6	18		442380	2011 <i>UH</i> ₃		11 23.3 8°63	0°8/23.5	17	
10 18	4 26.79	+29 12.3	1.671	2.475	16.6	21.5	10 18	4 18.00	+20 13.5	1.010	1.877	20.6	20.0
10 28	4 21.63	+29 14.7	1.586	2.470	13.2	21.2	10 28	4 15.94	+20 48.3	0.958	1.880	15.8	19.7
11 7	4 13.44	+29 3.4	1.523	2.465	9.1	21.0	11 7	4 10.24	+21 18.0	0.924	1.886	10.3	19.5
11 17	4 3.03	+28 36.4	1.485	2.460	4.9	20.7	11 17	4 1.88	+21 41.7	0.911	1.895	4.2	19.2
11 27	3 51.71	+27 54.4	1.474	2.454	3.3	20.6	11 27	3 52.54	+21 59.4	0.921	1.906	2.4	19.1
12 7	3 41.00	+27 1.8	1.491	2.449	6.9	20.8	12 7	3 44.13	+22 13.3	0.954	1.919	8.3	19.5
12 17	3 32.26	+26 5.2	1.534	2.443	11.2	21.1	12 17	3 38.23	+22 26.9	1.009	1.934	13.7	19.8
12 27	3 26.44	+25 11.9	1.601	2.436	15.1	21.3	12 27	3 35.84	+22 43.8	1.084	1.952	18.3	20.2
487498	2014 <i>SP</i> ₂₉₅		11 23.3 123°19	2°1/24.6	18		124034	2001 <i>FX</i> ₁₂₉		11 23.3 315°87	1°1/23.9	17	
10 18	4 22.53	+29 2.6	2.290	3.082	13.1	20.4	10 18	4 21.11	+25 4.3	2.090	2.899	13.6	19.3
10 28	4 17.42	+28 45.4	2.209	3.086	10.2	20.2	10 28	4 16.62	+24 53.1	2.003	2.893	10.5	19.1
11 7	4 10.24	+28 16.9	2.151	3.091	7.0	20.0	11 7	4 9.91	+24 33.1	1.939	2.888	6.9	18.9
11 17	4 1.64	+27 36.9	2.120	3.096	3.6	19.8	11 17	4 1.61	+24 4.2	1.901	2.882	3.1	18.6
11 27	3 52.57	+26 47.3	2.119	3.101	2.3	19.7	11 27	3 52.68	+23 28.3	1.892	2.877	1.7	18.5
12 7	3 44.04	+25 51.8	2.148	3.105	5.2	19.9	12 7	3 44.19	+22 48.8	1.913	2.871	5.5	18.7
12 17	3 36.91	+24 55.1	2.205	3.109	8.5	20.2	12 17	3 37.09	+22 9.8	1.961	2.866	9.3	19.0
12 27	3 31.83	+24 2.2	2.289	3.114	11.5	20.4	12 27	3 32.14	+21 35.8	2.033	2.862	12.6	19.2
454299	2014 <i>JA</i> ₃₇		11 23.3 109°78	0°5/23.0	18		333256	2012 <i>JZ</i> ₈		11 23.3 237°71	1°8/22.3	18	
10 18	4 25.76	+18 54.3	2.173	2.980	13.2	21.9	10 18	4 21.05	+14 52.8	2.660	3.468	11.0	21.5
10 28	4 19.75	+18 57.1	2.107	2.998	10.0	21.7	10 28	4 16.03	+14 37.5	2.565	3.457	8.4	21.3
11 7	4 11.67	+18 56.6	2.064	3.015	6.4	21.6	11 7	4 9.30	+14 21.1	2.494	3.445	5.5	21.1
11 17	4 2.19	+18 53.1	2.049	3.031	2.5	21.3	11 17	4 1.33	+14 5.0	2.452	3.432	2.6	20.9
11 27	3 52.26	+18 48.0	2.064	3.048	1.7	21.3	11 27	3 52.84	+13 51.1	2.441	3.420	2.5	20.9
12 7	3 42.91	+18 43.2	2.109	3.064	5.5	21.6	12 7	3 44.62	+13 41.4	2.460	3.407	5.4	21.1
12 17	3 34.99	+18 41.0	2.183	3.079	9.0	21.8	12 17	3 37.39	+13 37.9	2.508	3.393	8.4	21.2
12 27	3 29.16	+18 43.5	2.282	3.094	12.0	22.1	12 27	3 31.78	+13 41.7	2.581	3.379	11.2	21.4
140094	2001 <i>SH</i> ₁₂₉		11 23.3 358°92	1°9/22.3	18		410978	2009 <i>TE</i> ₄₆		11 23.3 79°43	0°1/23.2	18	
10 18	4 20.04	+18 38.6	1.614	2.450	15.7	19.1	10 18	4 21.15	+21 44.1	2.242	3.053	12.7	21.4
10 28	4 16.18	+17 54.9	1.541	2.448	12.0	18.9	10 28	4 16.29	+21 21.5	2.170	3.063	9.7	21.2
11 7	4 9.76	+17 4.5	1.490	2.447	7.7	18.7	11 7	4 9.48	+20 52.7	2.121	3.073	6.2	21.1
11 17	4 1.53	+16 10.6	1.464	2.446	3.2	18.4	11 17	4 1.38	+20 18.8	2.100	3.083	2.4	20.8
11 27	3 52.65	+15 17.9	1.465	2.446	3.0	18.4	11 27	3 52.85	+19 42.3	2.109	3.093	1.5	20.8
12 7	3 44.36	+14 31.6	1.493	2.447	7.4	18.6	12 7	3 44.84	+19 6.4	2.147	3.103	5.3	21.1
12 17	3 37.78	+13 56.5	1.547	2.448	11.7	18.9	12 17	3 38.14	+18 34.5	2.214	3.113	8.7	21.3
12 27	3 33.67	+13 35.5	1.624	2.450	15.4	19.1	12 27	3 33.38	+18 9.6	2.305	3.124	11.7	21.5
329554	2002 <i>TB</i> ₃₈₁		11 23.3 47°62	2°1/22.6	12 C		276374	2002 <i>VY</i> ₈₇		11 23.3 336°04	6°8/22.9	18	
10 18	4 27.37	+18 23.1	1.089	1.938	20.7	20.9	10 18	4 35.63	+23 43.7	1.163	1.989	21.1	19.4
10 28	4 22.21	+17 48.5	1.054	1.967	15.6	20.7	10 28	4 30.62	+26 28.0	1.078	1.973	17.0	19.0
11 7	4 13.65	+17 8.4	1.037	1.997	9.9	20.5	11 7	4 20.80	+29 21.5	1.014	1.958	12.2	18.7
11 17	4 2.97	+16 26.5	1.044	2.027	4.0	20.3	11 17	4 6.56	+32 11.9	0.974	1.944	7.9	18.4
11 27	3 51.94	+15 48.0	1.075	2.058	3.4	20.4	11 27	3 49.47	+34 43.3	0.961	1.932	7.3	18.4
12 7	3 42.29	+15 18.4	1.132	2.089	8.7	20.8	12 7	3 32.15	+36 44.1	0.974	1.921	11.5	18.6
12 17	3 35.29	+15 1.8	1.212	2.121	13.6	21.1	12 17	3 17.41	+38 12.1	1.012	1.911	16.6	18.8
12 27	3 31.61	+14 59.9	1.313	2.152	17.5	21.5	12 27	3 7.42	+39 14.7	1.070	1.902	21.1	19.1
7481	San Marcellio		11 23.3 280°14	5°8/19.9	18		368541	2003 <i>WV</i> ₁₅₈		11 23.3 53°86	0°3/23.1	18	
10 18	4 19.58	+ 6 4.8	2.097	2.917	13.1	17.2	10 18	4 20.21	+22 0.9	2.234	3.047	12.7	20.8
10 28	4 15.18	+ 4 58.7	2.022	2.913	10.4	17.0	10 28	4 15.62	+21 28.3	2.157	3.052	9.7	20.6
11 7	4 8.83	+ 3 56.1	1.971	2.909	7.7	16.8	11 7	4 9.09	+20 48.7	2.104	3.056	6.2	20.4
11 17	4 1.13	+ 3 1.8	1.947	2.904	5.9	16.7	11 17	4 1.24	+20 3.5	2.078	3.061	2.4	20.2
11 27	3 52.92	+ 2 20.8	1.951	2.900	6.5	16.8	11 27	3 52.95	+19 15.7	2.082	3.066	1.5	20.1
12 7	3 45.13	+ 1 56.6	1.982	2.896	8.8	16.9	12 7	3 45.15	+18 29.1	2.115	3.071	5.3	20.4
12 17	3 38.58	+ 1 50.8	2.039	2.892	11.6	17.1	12 17	3 38.64	+17 47.4	2.177	3.077	8.8	20.6
12 27	3 33.92	+ 2 2.9	2.118	2.887	14.2	17.2	12 27	3 34.06	+17 13.9	2.264	3.082	11.9	20.8
166451	2002 <i>PT</i> ₇₂		11 23.3 9°26	3°9/21.2	18		285469	2000 <i>AV</i> ₃₇		11 23.3 26°83	6°4/21.9	18	
10 18	4 17.40	+17 20.5	1.240	2.097	18.1	18.9	10 18	4 24.60	+ 5 2.9	1.351	2.188	18.1	19.6
10 28	4 14.67	+15 50.5	1.180	2.099	13.8	18.7	10 28	4 19.83	+ 4 55.4	1.298	2.198	14.3	19.4
11 7	4 8.99	+14 11.8	1.142	2.103	9.0	18.4	11 7	4 12.17	+ 4 58.6	1.264	2.209	10.2	19.2
11 17	4 1.26	+12 31.7	1.127	2.108	4.6	18.2	11 17	4 2.52	+ 5 16.5	1.254	2.221	7.0	19.0
11 27	3 52.89	+10 59.8	1.137	2.114	5.2	18.2	11 27	3 52.23	+ 5 51.5	1.269	2.235	7.0	19.1
12 7	3 45.35	+ 9 44.7	1.173	2.122	9.6	18.5	12 7	3 42.75	+ 6 43.5	1.311	2.248	10.1	19.3
12 17	3 39.84	+ 8 52.4	1.232	2.131	14.2	18.8	12 17	3 35.30	+ 7 50.2	1.376	2.263	13.9	19.6
12 27	3 37.17	+ 8 25.0	1.311	2.142	18.1	19.1	12 27	3 30.70	+ 9 8.5	1.463	2.278	17.3	19.8
71020	1999 <i>XW</i> ₅₈		11 23.3 78°19	0°8/23.7	18		196935	2003 <i>UH</i> ₁₆		11 23.3 104°01	3°6/24.7	18	
10 18	4 24.82	+25 2.5	1.726	2.540	15.8	19.3	10 18	4 27.94	+29 37.6	2.416	3.193	12.9	19.7
10 28	4 19.59	+24 35.6	1.661	2.554	12.1	19.1	10 28	4 21.68	+30 34.2	2.335	3.200	10.3	19.5
11 7	4 11.79	+23 57.7	1.618	2.569	7.9	18.9	11 7	4 13.13	+31 23.0	2.278	3.207	7.3	19.4
11 17	4 2.29	+23 9.9	1.601	2.583	3.3	18.6	11 17	4 2.90	+32 0.9	2.249	3.215	4.6	19.2
11 27	3 52.30	+22 15.5	1.613	2.597	1.8	18.5	11 27	3 51.95	+32 26.0	2.250	3.222	3.7	19.2
12 7	3 43.09	+21 19.6	1.653	2.612	6.2	18.9	12 7	3 41.36	+32 38.7	2.282	3.229	5.7	19.3
12 17	3 35.71	+20 27.8	1.720	2.626	10.4	19.1	12 17	3 32.16	+32 41.6	2.342	3.236	8.6	19.5
12 27	3 30.89	+19 45.1	1.811	2.640	13.9	19.4	12 27	3 25.12	+32 38.7	2.429	3.243	11.3	19.7
151940	2004 <i>FO</i> ₈₀												

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
365552	2010 TZ ₁₅		11 23.3 147°27'	1.7°/24.1	16		132947	2002 TB ₆₁		11 23.3 156°87'	1.8°/21.9	18	
10 18	4 30.13	+26 35.8	1.678	2.482	16.6	21.6	10 18	4 19.56	+17 15.9	2.653	3.464	11.0	19.9
10 28	4 23.87	+26 22.6	1.606	2.492	12.9	21.4	10 28	4 14.79	+16 24.0	2.573	3.467	8.3	19.7
11 7	4 14.70	+25 57.0	1.555	2.501	8.6	21.1	11 7	4 8.43	+15 28.1	2.518	3.470	5.4	19.5
11 17	4 3.51	+25 18.5	1.530	2.510	3.9	20.9	11 17	4 1.01	+14 30.7	2.492	3.473	2.5	19.4
11 27	3 51.66	+24 29.3	1.534	2.517	2.2	20.8	11 27	3 53.23	+13 35.2	2.497	3.476	2.5	19.4
12 7	3 40.63	+23 34.6	1.566	2.525	6.6	21.1	12 7	3 45.85	+12 45.0	2.533	3.478	5.3	19.6
12 17	3 31.64	+22 40.7	1.626	2.531	11.0	21.4	12 17	3 39.52	+12 3.2	2.597	3.481	8.3	19.8
12 27	3 25.53	+21 53.9	1.710	2.537	14.7	21.6	12 27	3 34.78	+11 31.8	2.687	3.483	10.8	19.9
108569	2001 MB ₁		11 23.3 185°12'	2.4°/24.8	18		378076	2006 UQ ₆₄		11 23.3 42°61'	3.2°/24.7	18	
10 18	4 25.49	+29 58.2	2.553	3.330	12.3	20.7	10 18	4 25.77	+29 54.2	1.190	2.019	20.5	20.2
10 28	4 19.57	+29 53.0	2.463	3.331	9.7	20.5	10 28	4 21.47	+29 37.1	1.135	2.033	16.1	20.0
11 7	4 11.62	+29 37.1	2.396	3.330	6.7	20.3	11 7	4 13.54	+29 0.4	1.099	2.047	11.0	19.7
11 17	4 2.26	+29 9.8	2.357	3.329	3.7	20.1	11 17	4 3.14	+28 3.5	1.084	2.062	5.7	19.5
11 27	3 52.38	+28 31.9	2.348	3.327	2.6	20.0	11 27	3 52.05	+26 50.3	1.095	2.078	3.5	19.4
12 7	3 42.95	+27 46.2	2.370	3.325	5.0	20.2	12 7	3 42.17	+25 29.3	1.131	2.094	7.9	19.7
12 17	3 34.82	+26 56.9	2.422	3.322	8.1	20.4	12 17	3 34.93	+24 10.6	1.192	2.110	12.8	20.1
12 27	3 28.68	+26 8.8	2.500	3.318	10.9	20.6	12 27	3 31.17	+23 2.9	1.274	2.127	17.1	20.4
521163	2015 FH ₄₀₈		11 23.3 159°88'	1.8°/22.5	18		411822	2012 DO ₄₀		11 23.3 250°02'	0.3°/23.5	18	
10 18	4 25.70	+17 8.1	1.694	2.517	15.6	21.7	10 18	4 21.71	+22 39.2	2.208	3.017	12.9	21.8
10 28	4 20.39	+16 45.8	1.620	2.520	12.0	21.5	10 28	4 16.92	+22 27.9	2.124	3.016	9.9	21.6
11 7	4 12.45	+16 19.7	1.569	2.523	7.7	21.2	11 7	4 10.05	+22 9.9	2.063	3.014	6.4	21.4
11 17	4 2.66	+15 51.9	1.543	2.525	3.3	21.0	11 17	4 1.72	+21 45.7	2.030	3.012	2.6	21.1
11 27	3 52.17	+15 25.5	1.545	2.527	2.9	21.0	11 27	3 52.83	+21 17.1	2.026	3.011	1.5	21.0
12 7	3 42.30	+15 4.2	1.576	2.529	7.2	21.2	12 7	3 44.36	+20 47.1	2.051	3.009	5.3	21.3
12 17	3 34.17	+14 51.2	1.633	2.530	11.4	21.5	12 17	3 37.21	+20 19.2	2.105	3.007	9.0	21.5
12 27	3 28.60	+14 49.1	1.714	2.531	15.1	21.7	12 27	3 32.07	+19 56.7	2.184	3.005	12.1	21.7
12937	Premadi		11 23.3 256°39'	4.4°/25.7	18		329205	2012 DV ₅₂		11 23.3 194°68'	2.0°/21.9	17	
10 18	4 26.23	+34 23.0	2.078	2.854	14.8	18.1	10 18	4 19.97	+14 50.3	2.874	3.681	10.3	21.9
10 28	4 20.91	+34 27.5	1.977	2.838	12.0	17.9	10 28	4 15.03	+14 13.6	2.787	3.679	7.9	21.7
11 7	4 12.90	+34 16.6	1.898	2.822	8.9	17.6	11 7	4 8.57	+13 35.1	2.726	3.676	5.1	21.5
11 17	4 2.89	+33 47.7	1.844	2.806	5.8	17.4	11 17	4 1.08	+12 56.7	2.694	3.673	2.6	21.4
11 27	3 52.01	+33 0.5	1.818	2.789	4.5	17.3	11 27	3 53.21	+12 21.0	2.693	3.669	2.6	21.4
12 7	3 41.57	+31 58.1	1.821	2.772	6.6	17.4	12 7	3 45.65	+11 50.7	2.722	3.665	5.2	21.5
12 17	3 32.78	+30 46.7	1.852	2.754	10.0	17.6	12 17	3 39.04	+11 27.8	2.781	3.660	7.9	21.7
12 27	3 26.53	+29 33.9	1.908	2.737	13.3	17.8	12 27	3 33.89	+11 13.9	2.865	3.655	10.4	21.9
64264	2001 TM ₁₉₁		11 23.3 169°43'	1.2°/23.9	18		187308	2005 UV ₁₂		11 23.3 6°46'	1.6°/22.6	18	
10 18	4 23.29	+24 50.5	2.076	2.882	13.8	19.9	10 18	4 21.40	+17 28.7	1.870	2.696	14.3	20.4
10 28	4 18.26	+24 45.5	1.995	2.883	10.6	19.7	10 28	4 16.94	+17 7.0	1.795	2.696	10.9	20.2
11 7	4 10.96	+24 32.0	1.936	2.884	7.0	19.5	11 7	4 10.17	+16 41.7	1.742	2.696	7.0	20.0
11 17	4 2.05	+24 10.0	1.904	2.884	3.1	19.2	11 17	4 1.79	+16 14.6	1.715	2.697	3.0	19.7
11 27	3 52.54	+23 41.0	1.900	2.884	1.8	19.1	11 27	3 52.80	+15 48.7	1.716	2.698	2.5	19.7
12 7	3 43.52	+23 8.0	1.927	2.885	5.6	19.4	12 7	3 44.31	+15 27.2	1.746	2.699	6.5	20.0
12 17	3 35.97	+22 35.1	1.981	2.885	9.3	19.6	12 17	3 37.32	+15 13.3	1.802	2.701	10.4	20.2
12 27	3 30.61	+22 6.6	2.060	2.885	12.6	19.8	12 27	3 32.55	+15 9.1	1.882	2.702	13.8	20.4
73292	2002 JU ₆₅		11 23.3 55°96'	3.6°/22.4	18		282396	2003 SA ₂₂₂		11 23.3 104°10'	4.8°/20.7	18	
10 18	4 27.63	+10 37.6	1.519	2.347	16.9	18.6	10 18	4 25.10	+ 9 34.4	2.023	2.837	13.8	20.9
10 28	4 21.80	+10 43.7	1.468	2.368	13.0	18.4	10 28	4 19.16	+ 8 26.5	1.971	2.862	10.6	20.7
11 7	4 13.26	+10 54.2	1.438	2.389	8.6	18.2	11 7	4 11.25	+ 7 20.7	1.944	2.887	7.4	20.6
11 17	4 2.93	+11 10.8	1.433	2.411	4.6	18.0	11 17	4 2.10	+ 6 21.6	1.943	2.910	5.0	20.5
11 27	3 52.09	+11 35.0	1.456	2.433	4.3	18.0	11 27	3 52.67	+ 5 33.9	1.973	2.933	5.4	20.6
12 7	3 42.11	+12 7.4	1.507	2.455	8.0	18.3	12 7	3 43.94	+ 5 1.0	2.031	2.956	8.0	20.8
12 17	3 34.10	+12 47.9	1.584	2.477	12.0	18.6	12 17	3 36.70	+ 4 44.4	2.117	2.977	10.9	21.0
12 27	3 28.81	+13 36.1	1.684	2.499	15.4	18.9	12 27	3 31.51	+ 4 44.1	2.225	2.998	13.5	21.2
54116	2000 HT ₁₆		11 23.3 86°13'	0.3°/23.2	18		253392	2003 MY		11 23.3 62°10'	19.2°/18.4	16	
10 18	4 23.75	+20 20.7	1.896	2.714	14.4	19.6	10 18	4 26.76	-20 2.8	1.256	2.026	22.9	19.9
10 28	4 18.69	+20 13.4	1.823	2.719	11.0	19.4	10 28	4 21.34	-22 17.1	1.246	2.049	21.1	19.9
11 7	4 11.26	+20 0.8	1.771	2.724	7.1	19.1	11 7	4 12.96	-23 53.0	1.251	2.073	19.8	19.9
11 17	4 2.19	+19 43.6	1.747	2.730	2.8	18.9	11 17	4 2.78	-24 40.2	1.273	2.097	19.2	19.9
11 27	3 52.51	+19 23.9	1.751	2.735	1.7	18.8	11 27	3 52.33	-24 33.8	1.313	2.121	19.5	20.0
12 7	3 43.39	+19 4.5	1.784	2.741	6.1	19.1	12 7	3 43.11	-23 36.8	1.370	2.145	20.4	20.2
12 17	3 35.83	+18 48.8	1.844	2.746	10.0	19.4	12 17	3 36.20	-21 57.4	1.443	2.170	21.6	20.3
12 27	3 30.58	+18 39.7	1.928	2.751	13.4	19.6	12 27	3 32.25	-19 46.4	1.530	2.194	22.8	20.5
270807	2002 RW ₂₆₁		11 23.3 24°00'	3.6°/24.5	17		453221	2008 HG ₅₅		11 23.3 148°26'	1.7°/22.2	18	
10 18	4 25.44	+27 52.0	1.944	2.744	14.8	19.8	10 18	4 21.22	+17 42.9	2.402	3.214	11.9	21.9
10 28	4 20.22	+28 48.4	1.871	2.751	11.7	19.6	10 28	4 16.21	+16 56.0	2.325	3.220	9.1	21.7
11 7	4 12.40	+29 36.8	1.821	2.759	8.2	19.4	11 7	4 9.41	+16 4.6	2.273	3.225	5.8	21.5
11 17	4 2.69	+30 14.0	1.797	2.768	4.8	19.2	11 17	4 1.42	+15 11.4	2.249	3.230	2.6	21.3
11 27	3 52.19	+30 38.1	1.801	2.777	3.7	19.1	11 27	3 53.04	+14 19.7	2.255	3.235	2.5	21.3
12 7	3 42.19	+30 50.0	1.834	2.787	6.3	19.3	12 7	3 45.11	+13 33.2	2.291	3.239	5.7	21.5
12 17	3 33.83	+30 52.6	1.894	2.797	9.8	19.6	12 17	3 38.38	+12 55.1	2.356	3.243	8.8	21.7
12 27	3 27.97	+30 50.4	1.979	2.808	12.9	19.8	12 27	3 33.42	+12 27.6	2.447	3.247	11.6	21.9
485905	2012 FS ₈₂		11 23.3 186°62'	4.5°/20.7	18		67131	2000 AC ₁₄₃		11 23.3 26°97'	6.3°/27.2	18	
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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
61916	2000 <i>RB</i> ₁		11 23.3 114°04'	2°5'/22.1	18		46294	2001 <i>KR</i> ₆₅		11 23.3 23°62'	9°5'/21.1	18	
10 18	4 25.28	+15 52.7	1.800	2.621	14.9	19.7	10 18	4 22.78	- 0 39.2	1.350	2.181	18.4	17.8
10 28	4 19.76	+15 14.2	1.735	2.634	11.4	19.5	10 28	4 18.42	- 1 17.8	1.301	2.191	15.1	17.6
11 7	4 11.89	+14 32.7	1.694	2.647	7.4	19.3	11 7	4 11.27	- 1 40.8	1.272	2.201	11.8	17.5
11 17	4 2.43	+13 51.2	1.678	2.659	3.5	19.1	11 17	4 2.25	- 1 41.6	1.266	2.213	9.7	17.4
11 27	3 52.48	+13 13.6	1.692	2.671	3.4	19.1	11 27	3 52.65	- 1 16.2	1.283	2.226	9.9	17.4
12 7	3 43.22	+12 43.7	1.735	2.683	7.1	19.4	12 7	3 43.87	- 0 24.5	1.325	2.239	12.2	17.6
12 17	3 35.61	+12 24.7	1.804	2.694	10.9	19.6	12 17	3 37.04	+ 0 50.1	1.390	2.254	15.3	17.8
12 27	3 30.37	+12 18.2	1.897	2.705	14.2	19.9	12 27	3 32.95	+ 2 22.2	1.475	2.269	18.3	18.1
21921	Camdenmiller		11 23.3 127°96'	0°9'/23.7	18		231384	2006 <i>JJ</i> ₄₇		11 23.3 216°20'	0°5'/22.9	18	
10 18	4 28.63	+24 54.2	1.717	2.524	16.1	18.2	10 18	4 20.16	+21 44.6	2.632	3.437	11.2	20.3
10 28	4 22.58	+24 33.3	1.648	2.538	12.4	17.9	10 28	4 15.37	+20 59.4	2.543	3.433	8.6	20.1
11 7	4 13.81	+24 1.6	1.602	2.551	8.1	17.7	11 7	4 8.88	+20 7.3	2.478	3.429	5.5	19.9
11 17	4 3.20	+23 19.4	1.582	2.563	3.4	17.5	11 17	4 1.25	+19 9.8	2.442	3.425	2.1	19.7
11 27	3 52.03	+22 29.6	1.590	2.575	1.8	17.4	11 27	3 53.20	+18 10.2	2.437	3.420	1.5	19.6
12 7	3 41.67	+21 37.3	1.628	2.586	6.4	17.7	12 7	3 45.54	+17 12.0	2.462	3.416	4.9	19.8
12 17	3 33.24	+20 48.2	1.693	2.596	10.7	18.0	12 17	3 38.96	+16 19.1	2.517	3.411	8.1	20.0
12 27	3 27.52	+20 7.5	1.782	2.606	14.3	18.2	12 27	3 34.04	+15 34.5	2.598	3.406	10.8	20.2
242508	2004 <i>XJ</i> ₉₉		11 23.3 117°59'	6°0'/20.6	18		446204	2013 <i>GW</i> ₁₄		11 23.3 185°30'	2°1'/22.2	18	
10 18	4 21.56	+ 1 6.3	2.397	3.198	12.3	20.4	10 18	4 21.97	+16 16.5	1.992	2.814	13.7	21.4
10 28	4 16.41	+ 0 38.4	2.329	3.203	9.9	20.2	10 28	4 17.22	+15 44.1	1.914	2.814	10.5	21.2
11 7	4 9.53	+ 0 18.6	2.284	3.208	7.6	20.1	11 7	4 10.30	+15 8.4	1.860	2.813	6.8	21.0
11 17	4 1.48	+ 0 10.4	2.267	3.212	6.1	20.0	11 17	4 1.86	+14 31.9	1.832	2.813	3.1	20.8
11 27	3 53.02	+ 0 16.5	2.278	3.217	6.4	20.0	11 27	3 52.86	+13 58.1	1.834	2.813	3.0	20.8
12 7	3 44.98	+ 0 37.9	2.317	3.221	8.2	20.1	12 7	3 44.34	+13 30.3	1.864	2.813	6.6	21.0
12 17	3 38.08	+ 1 14.3	2.383	3.226	10.5	20.3	12 17	3 37.22	+13 11.7	1.921	2.813	10.3	21.2
12 27	3 32.88	+ 2 3.9	2.473	3.230	12.7	20.5	12 27	3 32.21	+13 4.1	2.002	2.813	13.5	21.4
272052	2005 <i>EK</i> ₁₄₃		11 23.3 296°65'	0°1'/23.4	18		254515	2005 <i>EA</i> ₈₈		11 23.3 139°07'	2°4'/21.6	18	
10 18	4 20.57	+21 36.3	2.270	3.082	12.5	20.6	10 18	4 19.10	+14 56.5	2.540	3.355	11.3	20.2
10 28	4 16.11	+21 28.9	2.175	3.068	9.7	20.4	10 28	4 14.54	+14 6.2	2.462	3.358	8.6	20.1
11 7	4 9.60	+21 15.8	2.103	3.054	6.3	20.1	11 7	4 8.33	+13 13.4	2.410	3.361	5.6	19.9
11 17	4 1.59	+20 57.5	2.058	3.040	2.5	19.9	11 17	4 1.03	+12 21.0	2.385	3.363	2.9	19.7
11 27	3 52.92	+20 35.6	2.042	3.026	1.5	19.7	11 27	3 53.35	+11 32.3	2.391	3.366	3.1	19.7
12 7	3 44.56	+20 12.7	2.055	3.013	5.4	20.0	12 7	3 46.06	+10 50.8	2.427	3.369	5.8	19.9
12 17	3 37.41	+19 51.7	2.097	2.999	9.0	20.2	12 17	3 39.85	+10 19.0	2.491	3.371	8.7	20.1
12 27	3 32.18	+19 35.9	2.164	2.986	12.2	20.4	12 27	3 35.25	+ 9 58.7	2.580	3.373	11.3	20.3
161114	2002 <i>RC</i> ₂		11 23.3 5°47'	0°1'/23.3	18		415016	2011 <i>HT</i> ₈₈		11 23.3 315°54'	0°7'/23.5	17	
10 18	4 20.71	+22 1.8	1.074	1.931	20.3	19.0	10 18	4 25.08	+20 14.1	2.176	2.983	13.2	21.0
10 28	4 17.97	+21 49.3	1.013	1.930	15.7	18.7	10 28	4 19.73	+20 55.6	2.082	2.972	10.2	20.8
11 7	4 11.58	+21 26.2	0.970	1.931	10.2	18.4	11 7	4 12.06	+21 35.6	2.011	2.960	6.7	20.6
11 17	4 2.51	+20 53.7	0.949	1.933	4.0	18.1	11 17	4 2.63	+22 12.6	1.968	2.949	2.8	20.3
11 27	3 52.43	+20 15.6	0.951	1.936	2.4	18.0	11 27	3 52.35	+22 45.7	1.954	2.939	1.6	20.2
12 7	3 43.26	+19 38.3	0.977	1.941	8.5	18.4	12 7	3 42.31	+23 15.0	1.971	2.928	5.6	20.5
12 17	3 36.58	+19 8.2	1.026	1.947	14.1	18.7	12 17	3 33.55	+23 41.6	2.017	2.918	9.3	20.7
12 27	3 33.40	+18 50.6	1.094	1.954	18.8	19.0	12 27	3 26.92	+24 7.7	2.087	2.908	12.6	20.9
272318	2005 <i>SL</i> ₇₂		11 23.3 355°51'	0°8'/23.1	18		88714	2001 <i>SA</i> ₂₁		11 23.3 331°60'	3°0'/24.3	18	
10 18	4 21.79	+18 50.6	1.157	2.010	19.4	19.8	10 18	4 24.68	+26 23.4	1.701	2.514	16.0	18.4
10 28	4 18.64	+18 55.5	1.090	2.005	15.0	19.5	10 28	4 20.14	+27 4.6	1.616	2.505	12.6	18.2
11 7	4 11.99	+18 55.9	1.041	2.002	9.7	19.2	11 7	4 12.67	+27 38.2	1.552	2.497	8.7	17.9
11 17	4 2.70	+18 52.6	1.015	1.999	3.8	18.9	11 17	4 2.95	+28 1.3	1.512	2.488	4.7	17.7
11 27	3 52.30	+18 47.6	1.013	1.997	2.5	18.8	11 27	3 52.18	+28 12.3	1.501	2.481	3.3	17.6
12 7	3 42.63	+18 44.4	1.035	1.997	8.5	19.2	12 7	3 41.82	+28 12.4	1.516	2.474	6.9	17.8
12 17	3 35.26	+18 46.9	1.081	1.998	13.9	19.5	12 17	3 33.22	+28 5.3	1.558	2.467	11.0	18.0
12 27	3 31.30	+18 58.5	1.146	2.000	18.5	19.8	12 27	3 27.41	+27 56.2	1.624	2.461	14.8	18.2
416388	2003 <i>UY</i> ₂₈		11 23.3 18°47'	3°4'/21.1	14 C		267152	2000 <i>GH</i> ₃₂		11 23.3 167°25'	2°8'/24.4	18	
10 18	4 18.53	+16 50.0	1.715	2.551	14.9	20.6	10 18	4 28.79	+27 25.1	1.767	2.568	16.0	20.9
10 28	4 14.75	+15 19.6	1.651	2.558	11.3	20.4	10 28	4 23.02	+27 49.0	1.688	2.571	12.6	20.6
11 7	4 8.73	+13 42.8	1.610	2.566	7.4	20.2	11 7	4 14.34	+28 2.7	1.631	2.573	8.6	20.4
11 17	4 1.20	+12 5.5	1.596	2.575	3.9	20.0	11 17	4 3.54	+28 3.9	1.599	2.575	4.6	20.2
11 27	3 53.24	+10 34.9	1.610	2.585	4.3	20.1	11 27	3 51.88	+27 52.2	1.596	2.576	3.1	20.1
12 7	3 45.93	+ 9 17.5	1.652	2.595	7.9	20.3	12 7	3 40.82	+27 30.3	1.621	2.578	6.6	20.3
12 17	3 40.19	+ 8 18.3	1.720	2.606	11.6	20.6	12 17	3 31.63	+27 2.9	1.673	2.578	10.7	20.5
12 27	3 36.65	+ 7 39.2	1.811	2.618	14.8	20.8	12 27	3 25.24	+26 35.8	1.749	2.579	14.3	20.8
515661	2014 <i>OZ</i> ₁₉₀		11 23.3 98°48'	6°5'/27.7	18		164449	2006 <i>DJ</i> ₅₇		11 23.3 210°30'	3°0'/22.3	18	
10 18	4 30.70	+43 1.2	2.635	3.350	13.4	21.5	10 18	4 26.73	+11 39.7	1.937	2.751	14.3	20.2
10 28	4 23.75	+43 43.2	2.570	3.375	11.3	21.4	10 28	4 20.97	+11 38.9	1.854	2.747	11.1	20.0
11 7	4 14.40	+44 9.1	2.527	3.400	9.2	21.3	11 7	4 12.81	+11 40.5	1.794	2.743	7.4	19.8
11 17	4 3.43	+44 15.1	2.510	3.424	7.3	21.2	11 17	4 2.90	+11 46.3	1.762	2.739	3.9	19.6
11 27	3 51.93	+44 0.2	2.520	3.448	6.5	21.2	11 27	3 52.25	+11 58.0	1.758	2.735	3.7	19.6
12 7	3 41.12	+43 26.2	2.559	3.472	7.1	21.3	12 7	3 42.03	+12 17.0	1.784	2.730	7.2	19.8
12 17	3 31.99	+42 37.7	2.625	3.495	8.7	21.4	12 17	3 33.28	+12 44.2	1.837	2.724	10.9	20.0
12 27	3 25.27	+41 41.1	2.718	3.517	10.6	21.6	12 27	3 26.82	+13 19.9	1.915	2.719	14.3	20.2
199204	2006 <i>AT</i> ₁₈		11 23.3 174°17'	0°7'/23.7	18		207228	2005 <i>EE</i> ₁₄₉ </					

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11 23.3

11 23.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
272379	2005 <i>SH</i> ₂₂₁		11 23.3 333°22	3°6/21.7	18		77072	2001 <i>DH</i> ₂₆		11 23.3 108°46	4°6/21.3	18	
10 18	4 22.48	+15 31.5	1.417	2.258	17.2	20.4	10 18	4 25.03	+8 8.7	2.053	2.865	13.7	19.5
10 28	4 18.43	+14 34.5	1.344	2.254	13.2	20.2	10 28	4 19.20	+7 29.9	1.996	2.885	10.6	19.4
11 7	4 11.48	+13 32.4	1.293	2.250	8.7	19.9	11 7	4 11.37	+6 54.9	1.963	2.905	7.4	19.2
11 17	4 2.42	+12 30.1	1.266	2.246	4.5	19.7	11 17	4 2.25	+6 27.1	1.957	2.924	5.0	19.1
11 27	3 52.56	+11 33.8	1.266	2.243	4.6	19.7	11 27	3 52.77	+6 10.0	1.980	2.942	5.2	19.2
12 7	3 43.35	+10 49.7	1.291	2.240	9.0	19.9	12 7	3 43.92	+6 5.7	2.032	2.960	7.7	19.3
12 17	3 36.05	+10 22.4	1.341	2.237	13.5	20.2	12 17	3 36.50	+6 14.9	2.111	2.977	10.7	19.6
12 27	3 31.57	+10 13.9	1.412	2.235	17.5	20.4	12 27	3 31.13	+6 37.2	2.214	2.994	13.3	19.8
410673	2008 <i>UT</i> ₂₃		11 23.3 332°89	0°8/23.7	17		327624	2006 <i>HK</i> ₄₂		11 23.3 199°87	3°3/21.4	18	
10 18	4 20.99	+22 37.0	2.013	2.829	13.8	20.8	10 18	4 20.69	+8 33.6	2.911	3.715	10.3	21.2
10 28	4 16.72	+22 46.2	1.925	2.820	10.6	20.5	10 28	4 15.58	+8 14.3	2.826	3.712	8.0	21.1
11 7	4 10.15	+22 49.6	1.860	2.811	7.0	20.3	11 7	4 8.97	+7 57.6	2.766	3.708	5.5	20.9
11 17	4 1.87	+22 46.8	1.820	2.802	3.0	20.0	11 17	4 1.33	+7 45.5	2.735	3.704	3.6	20.8
11 27	3 52.86	+22 38.7	1.809	2.794	1.6	19.9	11 27	3 53.28	+7 40.0	2.735	3.699	3.7	20.8
12 7	3 44.22	+22 27.5	1.827	2.786	5.7	20.2	12 7	3 45.51	+7 42.7	2.764	3.694	5.8	20.9
12 17	3 36.96	+22 16.2	1.872	2.779	9.6	20.4	12 17	3 38.64	+7 54.3	2.823	3.689	8.3	21.1
12 27	3 31.88	+22 8.2	1.941	2.772	13.0	20.6	12 27	3 33.21	+8 15.1	2.907	3.683	10.6	21.2
54943	2001 <i>PC</i> ₁		11 23.3 51°12	3°0/22.0	18		461162	2015 <i>TO</i> ₁₃₈		11 23.3 149°40	4°3/21.2	18	
10 18	4 22.60	+14 14.2	1.704	2.534	15.2	19.1	10 18	4 21.44	+9 5.8	2.148	2.966	12.9	21.5
10 28	4 17.91	+13 41.5	1.641	2.543	11.6	18.9	10 28	4 16.60	+8 27.7	2.074	2.967	10.1	21.3
11 7	4 10.81	+13 7.8	1.600	2.553	7.6	18.7	11 7	4 9.82	+7 52.0	2.025	2.969	7.0	21.1
11 17	4 2.08	+12 36.0	1.584	2.564	3.9	18.5	11 17	4 1.70	+7 22.1	2.002	2.971	4.6	21.0
11 27	3 52.81	+12 10.0	1.597	2.574	3.8	18.5	11 27	3 53.09	+7 1.5	2.008	2.973	4.9	21.0
12 7	3 44.19	+11 53.2	1.637	2.585	7.5	18.8	12 7	3 44.92	+6 52.8	2.043	2.974	7.5	21.2
12 17	3 37.22	+11 47.9	1.703	2.595	11.3	19.0	12 17	3 38.01	+6 57.1	2.104	2.975	10.5	21.3
12 27	3 32.62	+11 55.2	1.792	2.606	14.7	19.3	12 27	3 33.00	+7 14.7	2.189	2.977	13.3	21.5
88008	2000 <i>UE</i> ₄₈		11 23.3 33°09	1°5/22.6	18		53699	2000 <i>DB</i> ₉₄		11 23.3 179°10	1°2/22.8	18	
10 18	4 21.64	+17 38.5	1.867	2.691	14.3	19.4	10 18	4 26.94	+18 17.0	1.937	2.748	14.4	20.0
10 28	4 17.10	+17 18.5	1.795	2.696	10.9	19.2	10 28	4 21.13	+18 0.3	1.856	2.750	11.0	19.8
11 7	4 10.27	+16 54.8	1.747	2.702	7.0	19.0	11 7	4 12.90	+17 39.4	1.800	2.751	7.1	19.6
11 17	4 1.88	+16 29.4	1.725	2.707	2.9	18.7	11 17	4 2.95	+17 15.5	1.770	2.752	2.9	19.3
11 27	3 52.92	+16 5.0	1.731	2.713	2.4	18.7	11 27	3 52.35	+16 51.0	1.769	2.752	2.2	19.3
12 7	3 44.51	+15 44.9	1.766	2.720	6.4	19.0	12 7	3 42.28	+16 29.2	1.798	2.751	6.4	19.6
12 17	3 37.60	+15 32.0	1.827	2.726	10.3	19.2	12 17	3 33.76	+16 13.3	1.855	2.750	10.4	19.8
12 27	3 32.92	+15 28.4	1.912	2.733	13.6	19.5	12 27	3 27.60	+16 6.0	1.936	2.748	13.8	20.0
280368	2003 <i>TB</i> ₁₅		11 23.3 34°71	2°9/24.5	18		148041	1998 <i>RN</i> ₅₉		11 23.3 54°69	0°0/23.3	18	
10 18	4 24.35	+27 26.5	1.920	2.723	14.8	19.8	10 18	4 27.44	+22 31.2	1.241	2.077	19.4	19.8
10 28	4 19.34	+28 0.9	1.849	2.733	11.6	19.6	10 28	4 22.27	+22 8.7	1.195	2.101	14.8	19.6
11 7	4 11.82	+28 26.3	1.801	2.743	8.0	19.4	11 7	4 13.84	+21 36.1	1.169	2.125	9.5	19.4
11 17	4 2.52	+28 40.7	1.779	2.753	4.4	19.2	11 17	4 3.29	+20 55.0	1.166	2.149	3.7	19.1
11 27	3 52.54	+28 43.5	1.785	2.764	3.1	19.2	11 27	3 52.25	+20 9.8	1.189	2.174	2.1	19.1
12 7	3 43.12	+28 36.6	1.819	2.776	6.1	19.4	12 7	3 42.40	+19 26.4	1.239	2.199	7.6	19.5
12 17	3 35.35	+28 23.6	1.881	2.787	9.6	19.6	12 17	3 35.01	+18 50.6	1.313	2.224	12.5	19.9
12 27	3 30.02	+28 9.1	1.967	2.799	12.8	19.9	12 27	3 30.82	+18 26.8	1.409	2.250	16.5	20.2
324802	2007 <i>HW</i> ₄₅		11 23.3 95°79	1°5/24.1	18		173496	2000 <i>SO</i> ₂₈₄		11 23.3 27°36	4°3/24.9	18	
10 18	4 25.14	+24 53.8	2.486	3.277	12.2	20.8	10 18	4 26.41	+29 59.4	1.178	2.007	20.7	20.0
10 28	4 19.25	+25 15.9	2.416	3.296	9.4	20.6	10 28	4 22.37	+30 17.5	1.116	2.012	16.5	19.7
11 7	4 11.42	+25 31.8	2.371	3.314	6.2	20.5	11 7	4 14.46	+30 18.0	1.071	2.017	11.5	19.5
11 17	4 2.29	+25 40.3	2.355	3.333	3.0	20.3	11 17	4 3.72	+29 57.8	1.048	2.023	6.5	19.2
11 27	3 52.71	+25 41.9	2.368	3.350	1.9	20.2	11 27	3 51.95	+29 17.4	1.050	2.030	4.5	19.1
12 7	3 43.61	+25 37.9	2.412	3.368	4.8	20.5	12 7	3 41.19	+28 22.5	1.076	2.037	8.4	19.4
12 17	3 35.81	+25 30.9	2.485	3.385	7.9	20.7	12 17	3 33.13	+27 22.4	1.126	2.044	13.4	19.7
12 27	3 29.92	+25 24.0	2.585	3.402	10.6	20.9	12 27	3 28.81	+26 26.8	1.197	2.053	17.8	20.0
445718	2011 <i>UC</i> ₂₇₉		11 23.3 40°26	0°8/23.6	18		315527	2008 <i>AO</i> ₁₁₄		11 23.3 39°43	2°5/24.4	18	
10 18	4 24.83	+22 3.5	1.709	2.528	15.7	20.9	10 18	4 24.68	+27 10.1	1.818	2.625	15.4	20.8
10 28	4 19.86	+22 19.0	1.638	2.535	12.1	20.7	10 28	4 19.75	+27 24.7	1.742	2.628	12.0	20.6
11 7	4 12.23	+22 28.5	1.590	2.541	7.9	20.5	11 7	4 12.18	+27 29.2	1.688	2.632	8.2	20.4
11 17	4 2.70	+22 31.4	1.566	2.549	3.3	20.2	11 17	4 2.71	+27 22.2	1.659	2.636	4.2	20.2
11 27	3 52.46	+22 28.4	1.571	2.556	1.8	20.1	11 27	3 52.52	+27 3.9	1.658	2.640	2.8	20.1
12 7	3 42.83	+22 21.9	1.604	2.564	6.3	20.5	12 7	3 42.90	+26 37.5	1.686	2.644	6.2	20.3
12 17	3 34.95	+22 15.3	1.664	2.572	10.6	20.7	12 17	3 35.01	+26 7.4	1.740	2.648	10.1	20.6
12 27	3 29.67	+22 12.2	1.747	2.580	14.2	21.0	12 27	3 29.68	+25 38.9	1.819	2.653	13.6	20.8
406282	2007 <i>EY</i> ₁₄₉		11 23.3 149°15	0°8/22.9	18		168653	2000 <i>DJ</i> ₈₂		11 23.3 243°99	1°3/22.7	18	
10 18	4 22.09	+18 35.2	2.473	3.281	11.8	21.9	10 18	4 23.78	+17 34.7	2.000	2.817	13.8	20.5
10 28	4 16.91	+18 23.0	2.394	3.286	9.0	21.7	10 28	4 18.75	+17 21.7	1.912	2.809	10.6	20.3
11 7	4 9.93	+18 7.4	2.340	3.291	5.7	21.5	11 7	4 11.42	+17 5.4	1.848	2.801	6.9	20.1
11 17	4 1.71	+17 49.4	2.313	3.296	2.3	21.3	11 17	4 2.41	+16 47.1	1.811	2.793	2.8	19.8
11 27	3 53.04	+17 31.0	2.317	3.300	1.7	21.2	11 27	3 52.68	+16 29.0	1.802	2.785	2.3	19.8
12 7	3 44.78	+17 14.2	2.351	3.305	5.1	21.5	12 7	3 43.35	+16 13.8	1.823	2.776	6.3	20.0
12 17	3 37.68	+17 1.5	2.414	3.309	8.3	21.7	12 17	3 35.43	+16 4.5	1.871	2.768	10.2	20.2
12 27	3 32.34	+16 54.9	2.503	3.312	11.1	21.9	12 27	3 29.70	+16 3.3	1.943	2.759	13.6	20.4
247244	2001 <i>RN</i> ₃		11 23.3 88°77	0°3/23.5	18		121117	1999 <i>GE</i> ₅₆		1			

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
326244	2012 <i>DN</i> ₂₄		11 23.3 159°51	3°7/21.2	18		493969	2016 <i>AT</i> ₆₆		11 23.3 341°21	4°4/21.3	17	
10 18	4 20.32	+ 9 27.9	2.574	3.385	11.2	21.4	10 18	4 19.88	+ 9 10.8	2.040	2.864	13.3	21.1
10 28	4 15.44	+ 8 50.6	2.499	3.389	8.7	21.2	10 28	4 15.61	+ 8 36.2	1.963	2.859	10.4	20.9
11 7	4 8.94	+ 8 15.0	2.449	3.392	6.0	21.1	11 7	4 9.31	+ 8 4.2	1.909	2.856	7.2	20.7
11 17	4 1.34	+ 7 43.9	2.426	3.395	3.9	20.9	11 17	4 1.58	+ 7 38.2	1.882	2.852	4.7	20.6
11 27	3 53.36	+ 7 20.4	2.434	3.398	4.2	21.0	11 27	3 53.29	+ 7 21.8	1.883	2.849	5.0	20.6
12 7	3 45.74	+ 7 6.5	2.471	3.401	6.4	21.1	12 7	3 45.41	+ 7 17.5	1.911	2.846	7.7	20.7
12 17	3 39.17	+ 7 3.8	2.536	3.403	9.1	21.3	12 17	3 38.81	+ 7 26.7	1.967	2.843	10.9	20.9
12 27	3 34.20	+ 7 12.5	2.626	3.406	11.5	21.5	12 27	3 34.15	+ 7 49.3	2.045	2.841	13.8	21.1
374770	2006 <i>SL</i> ₃₃₆		11 23.3 338°81	2°7/22.6	18		487649	2015 <i>OS</i> ₆₈		11 23.3 345°92	10°2/19.4	18	
10 18	4 19.94	+15 53.2	1.060	1.924	20.0	20.8	10 18	4 21.82	- 2 14.8	1.552	2.373	16.9	20.6
10 28	4 17.62	+15 42.1	0.987	1.908	15.6	20.5	10 28	4 17.59	- 3 26.1	1.490	2.369	14.2	20.4
11 7	4 11.62	+15 28.6	0.932	1.895	10.2	20.2	11 7	4 10.81	- 4 24.1	1.449	2.366	11.7	20.3
11 17	4 2.73	+15 15.8	0.899	1.882	4.6	19.8	11 17	4 2.21	- 5 1.0	1.431	2.363	10.3	20.2
11 27	3 52.49	+15 7.5	0.888	1.871	4.0	19.8	11 27	3 52.94	- 5 10.5	1.437	2.361	10.8	20.2
12 7	3 42.82	+15 8.0	0.901	1.861	9.7	20.1	12 7	3 44.25	- 4 50.2	1.467	2.359	12.9	20.4
12 17	3 35.49	+15 20.7	0.935	1.853	15.5	20.3	12 17	3 37.23	- 4 1.7	1.520	2.357	15.7	20.5
12 27	3 31.76	+15 47.5	0.988	1.846	20.5	20.6	12 27	3 32.68	- 2 49.1	1.592	2.356	18.4	20.7
227373	2005 <i>UH</i> ₂₁₃		11 23.3 39°13	0°5/23.2	18		326805	2003 <i>SH</i> ₃₃₉		11 23.3 128°80	0°6/23.6	17	
10 18	4 24.16	+22 1.7	1.231	2.073	19.2	19.9	10 18	4 23.41	+21 43.8	2.366	3.170	12.4	21.6
10 28	4 19.98	+21 29.9	1.176	2.086	14.7	19.7	10 28	4 18.15	+21 58.4	2.284	3.172	9.5	21.4
11 7	4 12.54	+20 47.7	1.141	2.099	9.4	19.4	11 7	4 10.88	+22 8.6	2.226	3.175	6.2	21.2
11 17	4 2.87	+19 57.4	1.130	2.113	3.7	19.1	11 17	4 2.19	+22 14.1	2.196	3.178	2.6	21.0
11 27	3 52.54	+19 4.0	1.143	2.128	2.3	19.1	11 27	3 52.94	+22 15.4	2.196	3.180	1.4	20.9
12 7	3 43.23	+18 14.0	1.183	2.143	7.9	19.5	12 7	3 44.07	+22 13.9	2.225	3.183	5.0	21.2
12 17	3 36.25	+17 33.7	1.247	2.159	12.9	19.8	12 17	3 36.43	+22 11.9	2.284	3.185	8.4	21.4
12 27	3 32.44	+17 7.3	1.332	2.176	17.1	20.1	12 27	3 30.72	+22 12.1	2.368	3.187	11.4	21.6
40781	1999 <i>TN</i> ₂₆		11 23.3 86°25	2°4/24.4	18		38582	1999 <i>XE</i> ₃₇		11 23.3 52°97	4°0/21.8	18	
10 18	4 29.87	+27 17.2	1.834	2.630	15.7	19.3	10 18	4 22.66	+ 9 7.5	1.979	2.799	13.8	17.1
10 28	4 23.36	+27 30.3	1.777	2.658	12.2	19.1	10 28	4 17.65	+ 8 52.0	1.915	2.810	10.7	16.9
11 7	4 14.25	+27 32.6	1.743	2.685	8.2	18.9	11 7	4 10.55	+ 8 40.3	1.874	2.821	7.3	16.7
11 17	4 3.45	+27 23.0	1.736	2.712	4.1	18.7	11 17	4 2.04	+ 8 35.0	1.860	2.832	4.5	16.6
11 27	3 52.20	+27 2.2	1.757	2.738	2.7	18.7	11 27	3 53.06	+ 8 38.7	1.874	2.843	4.6	16.6
12 7	3 41.81	+26 33.7	1.807	2.764	6.0	19.0	12 7	3 44.61	+ 8 52.9	1.916	2.855	7.4	16.8
12 17	3 33.35	+26 2.2	1.886	2.789	9.7	19.2	12 17	3 37.57	+ 9 17.9	1.986	2.866	10.6	17.0
12 27	3 27.51	+25 33.0	1.989	2.814	13.0	19.5	12 27	3 32.59	+ 9 53.4	2.079	2.878	13.5	17.3
391533	2007 <i>RJ</i> ₂₉₇		11 23.3 177°63	3°9/24.9	18		298440	2003 <i>UQ</i> ₂₈		11 23.3 21°00	0°9/22.9	18	
10 18	4 29.32	+30 28.3	2.116	2.896	14.4	21.6	10 18	4 22.64	+20 12.2	1.558	2.389	16.4	20.6
10 28	4 23.15	+31 8.5	2.031	2.898	11.5	21.5	10 28	4 18.37	+19 44.9	1.488	2.392	12.5	20.4
11 7	4 14.36	+31 38.6	1.969	2.899	8.2	21.3	11 7	4 11.36	+19 10.4	1.440	2.396	8.0	20.2
11 17	4 3.62	+31 55.6	1.933	2.900	5.1	21.1	11 17	4 2.44	+18 30.6	1.416	2.399	3.2	19.9
11 27	3 52.04	+31 57.8	1.927	2.900	4.0	21.0	11 27	3 52.83	+17 49.4	1.420	2.404	2.3	19.8
12 7	3 40.92	+31 46.8	1.950	2.900	6.3	21.1	12 7	3 43.88	+17 11.4	1.451	2.408	7.1	20.1
12 17	3 31.40	+31 26.3	2.001	2.899	9.6	21.3	12 17	3 36.77	+16 41.4	1.507	2.413	11.6	20.4
12 27	3 24.39	+31 1.8	2.077	2.898	12.7	21.5	12 27	3 32.30	+16 22.8	1.587	2.419	15.4	20.7
127754	2003 <i>FB</i> ₂₄		11 23.3 217°20	0°3/23.2	18		275634	2000 <i>EC</i> ₁₂₆		11 23.3 273°82	2°5/24.2	18	
10 18	4 25.89	+21 4.3	1.913	2.724	14.5	21.4	10 18	4 27.62	+25 53.5	1.630	2.442	16.7	21.3
10 28	4 20.52	+20 48.0	1.825	2.718	11.2	21.2	10 28	4 22.68	+26 17.6	1.534	2.424	13.2	21.0
11 7	4 12.63	+20 25.0	1.760	2.712	7.3	20.9	11 7	4 14.54	+26 33.0	1.459	2.406	9.0	20.7
11 17	4 2.93	+19 55.9	1.722	2.705	2.9	20.6	11 17	4 3.87	+26 37.1	1.409	2.387	4.5	20.4
11 27	3 52.47	+19 23.1	1.712	2.697	1.8	20.5	11 27	3 51.91	+26 29.0	1.386	2.369	2.9	20.3
12 7	3 42.47	+18 50.2	1.733	2.689	6.3	20.8	12 7	3 40.28	+26 10.8	1.391	2.350	7.2	20.5
12 17	3 34.03	+18 21.4	1.780	2.680	10.4	21.1	12 17	3 30.48	+25 47.3	1.422	2.331	11.9	20.7
12 27	3 27.98	+18 0.3	1.852	2.671	14.0	21.3	12 27	3 23.69	+25 24.6	1.477	2.312	16.1	20.9
410629	2008 <i>RQ</i> ₁₂		11 23.3 325°60	2°4/24.6	17		44509	1998 <i>XJ</i> ₄₆		11 23.3 358°04	7°2/27.6	18	
10 18	4 21.43	+27 58.0	2.106	2.907	13.7	21.3	10 18	4 21.76	+40 15.7	1.698	2.474	17.6	17.5
10 28	4 17.06	+28 4.9	2.016	2.899	10.8	21.1	10 28	4 18.17	+40 31.2	1.619	2.470	14.7	17.3
11 7	4 10.39	+28 1.8	1.948	2.891	7.4	20.9	11 7	4 11.48	+40 24.7	1.559	2.467	11.6	17.1
11 17	4 2.04	+27 47.8	1.907	2.883	3.9	20.7	11 17	4 2.54	+39 52.4	1.521	2.466	8.7	17.0
11 27	3 52.98	+27 23.5	1.894	2.875	2.6	20.6	11 27	3 52.77	+38 53.4	1.509	2.465	7.2	16.9
12 7	3 44.32	+26 51.5	1.910	2.867	5.6	20.7	12 7	3 43.75	+37 32.3	1.522	2.466	8.4	17.0
12 17	3 37.06	+26 16.0	1.953	2.860	9.2	21.0	12 17	3 36.81	+35 57.4	1.561	2.467	11.2	17.1
12 27	3 31.99	+25 41.7	2.021	2.854	12.5	21.1	12 27	3 32.86	+34 18.9	1.624	2.469	14.4	17.3
378098	2006 <i>UV</i> ₁₆₉		11 23.3 316°49	0°1/23.4	18		229009	2003 <i>XJ</i> ₂₂		11 23.3 4°31	12°7/29.2	17	
10 18	4 24.58	+19 34.8	1.246	2.089	18.9	20.6	10 18	4 30.32	+50 14.0	1.781	2.492	19.1	18.9
10 28	4 21.02	+19 56.9	1.160	2.070	14.8	20.3	10 28	4 25.85	+52 3.5	1.711	2.492	17.1	18.8
11 7	4 13.82	+20 15.9	1.093	2.051	9.7	20.0	11 7	4 17.17	+53 30.7	1.659	2.493	15.1	18.6
11 17	4 3.66	+20 31.0	1.049	2.033	3.9	19.6	11 17	4 5.05	+54 26.2	1.627	2.495	13.5	18.5
11 27	3 51.97	+20 42.3	1.030	2.015	2.3	19.4	11 27	3 51.24	+54 43.4	1.617	2.498	12.7	18.5
12 7	3 40.64	+20 51.6	1.036	1.998	8.5	19.8	12 7	3 38.06	+54 22.0	1.630	2.502	13.0	18.5
12 17	3 31.45	+21 2.4	1.066	1.982	14.2	20.0	12 17	3 27.63	+53 28.3	1.664	2.507	14.3	18.6
12 27	3 25.78	+21 18.7	1.116	1.967	19.1	20.3	12 27	3 21.36	+52 13.1	1.719	2.513	16.1	18.7
521708	2015 <i>RO</i> ₂₆₄		11 23.3 202°23	2°5/24.5	18								

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
197136	2003 <i>UZ</i> ₂₄₀		11 23.3	15°77	3°9/25.0	17 R	452988	2007 <i>GQ</i> ₁₇		11 23.4	218°04	1°2/22.5	17
10 18	4 25.07	+30 52.3	2.243	3.027	13.6	19.8	10 18	4 20.79	+19 16.9	2.388	3.200	12.0	21.7
10 28	4 19.79	+31 33.4	2.160	3.027	10.9	19.7	10 28	4 16.07	+18 33.2	2.302	3.197	9.2	21.5
11 7	4 12.14	+32 4.8	2.099	3.028	7.8	19.5	11 7	4 9.50	+17 43.9	2.241	3.193	5.9	21.3
11 17	4 2.76	+32 24.0	2.065	3.029	5.0	19.3	11 17	4 1.66	+16 51.0	2.207	3.189	2.4	21.1
11 27	3 52.64	+32 29.5	2.059	3.031	3.9	19.2	11 27	3 53.35	+15 57.9	2.204	3.186	2.1	21.1
12 7	3 42.91	+32 22.7	2.082	3.032	6.0	19.4	12 7	3 45.44	+15 8.3	2.230	3.182	5.5	21.3
12 17	3 34.61	+32 6.9	2.134	3.033	9.0	19.6	12 17	3 38.70	+14 25.8	2.286	3.177	8.8	21.5
12 27	3 28.56	+31 46.7	2.210	3.035	11.9	19.8	12 27	3 33.75	+13 53.2	2.366	3.173	11.8	21.7
162224	1999 <i>TD</i> ₁₂₀		11 23.3	47°96	1°4/23.9	18	193755	2001 <i>KP</i> ₄₀		11 23.4	136°18	4°1/20.8	18
10 18	4 25.22	+25 31.5	1.443	2.268	17.8	19.6	10 18	4 20.05	+ 6 23.3	2.834	3.638	10.5	20.7
10 28	4 20.44	+25 20.1	1.387	2.285	13.7	19.4	10 28	4 15.06	+ 5 45.7	2.766	3.649	8.2	20.6
11 7	4 12.69	+24 56.8	1.351	2.303	9.0	19.2	11 7	4 8.64	+ 5 11.6	2.723	3.659	5.9	20.5
11 17	4 2.94	+24 21.8	1.340	2.321	4.0	18.9	11 17	4 1.27	+ 4 43.8	2.709	3.669	4.3	20.4
11 27	3 52.62	+23 38.1	1.355	2.339	2.2	18.9	11 27	3 53.60	+ 4 25.0	2.725	3.679	4.6	20.4
12 7	3 43.23	+22 51.0	1.397	2.358	6.8	19.2	12 7	3 46.28	+ 4 16.9	2.770	3.688	6.4	20.5
12 17	3 35.99	+22 6.7	1.465	2.378	11.3	19.5	12 17	3 39.92	+ 4 20.4	2.843	3.697	8.7	20.7
12 27	3 31.67	+21 30.5	1.556	2.397	15.2	19.8	12 27	3 35.00	+ 4 35.3	2.941	3.705	10.8	20.9
208032	1999 <i>NH</i> ₃₀		11 23.3	95°81	2°1/22.5	18	320081	2007 <i>EY</i> ₆₇		11 23.4	340°05	1°7/22.6	18
10 18	4 27.32	+15 42.8	1.847	2.662	14.8	20.4	10 18	4 20.97	+16 59.7	1.845	2.672	14.4	20.6
10 28	4 21.22	+15 22.5	1.790	2.686	11.3	20.2	10 28	4 16.78	+16 39.6	1.764	2.667	11.0	20.3
11 7	4 12.82	+15 0.4	1.757	2.709	7.2	20.0	11 7	4 10.24	+16 16.2	1.707	2.662	7.1	20.1
11 17	4 2.92	+14 38.5	1.751	2.732	3.3	19.8	11 17	4 2.03	+15 51.4	1.675	2.657	3.1	19.9
11 27	3 52.62	+14 19.5	1.774	2.754	2.9	19.8	11 27	3 53.14	+15 28.3	1.671	2.653	2.7	19.8
12 7	3 43.08	+14 6.3	1.826	2.776	6.7	20.1	12 7	3 44.70	+15 10.0	1.696	2.649	6.7	20.1
12 17	3 35.22	+14 1.1	1.905	2.797	10.4	20.4	12 17	3 37.72	+14 59.4	1.747	2.646	10.7	20.3
12 27	3 29.70	+14 5.5	2.009	2.817	13.5	20.6	12 27	3 32.99	+14 58.7	1.821	2.643	14.1	20.5
222794	2002 <i>CV</i> ₂₀₇		11 23.3	148°96	5°8/27.2	18	275302	2010 <i>PM</i> ₁₂		11 23.4	49°08	6°6/20.9	18
10 18	4 28.31	+41 15.7	2.780	3.504	12.6	21.1	10 18	4 22.70	+ 3 21.6	1.800	2.619	15.0	20.1
10 28	4 21.95	+41 49.2	2.698	3.513	10.6	21.0	10 28	4 17.80	+ 2 45.5	1.744	2.632	12.0	19.9
11 7	4 13.35	+42 8.4	2.638	3.521	8.5	20.8	11 7	4 10.69	+ 2 18.0	1.711	2.645	8.9	19.8
11 17	4 3.18	+42 10.1	2.604	3.529	6.6	20.7	11 17	4 2.13	+ 2 3.6	1.703	2.659	6.8	19.7
11 27	3 52.42	+41 53.0	2.598	3.536	5.8	20.7	11 27	3 53.12	+ 2 5.9	1.722	2.672	7.1	19.7
12 7	3 42.16	+41 18.8	2.621	3.543	6.5	20.7	12 7	3 44.73	+ 2 26.2	1.768	2.686	9.4	19.9
12 17	3 33.34	+40 31.4	2.673	3.550	8.3	20.9	12 17	3 37.86	+ 3 3.6	1.839	2.700	12.3	20.1
12 27	3 26.71	+39 36.7	2.751	3.556	10.4	21.0	12 27	3 33.18	+ 3 56.1	1.933	2.715	15.0	20.3
516633	2008 <i>EQ</i> ₅₈		11 23.4	142°17	3°6/21.6	18	281979	2011 <i>HR</i> ₁₀		11 23.4	135°28	1°0/22.9	18
10 18	4 21.97	+12 4.0	1.955	2.778	13.8	21.4	10 18	4 26.89	+19 24.9	2.019	2.827	14.0	22.2
10 28	4 17.27	+11 25.2	1.880	2.779	10.7	21.2	10 28	4 20.88	+18 57.3	1.949	2.841	10.7	22.0
11 7	4 10.41	+10 46.4	1.829	2.779	7.2	21.0	11 7	4 12.63	+18 24.3	1.903	2.855	6.8	21.8
11 17	4 2.03	+10 11.0	1.804	2.779	4.2	20.8	11 17	4 2.90	+17 47.6	1.885	2.867	2.7	21.6
11 27	3 53.10	+ 9 42.9	1.807	2.779	4.3	20.8	11 27	3 52.70	+17 10.1	1.896	2.879	2.1	21.5
12 7	3 44.65	+ 9 25.2	1.839	2.780	7.4	21.0	12 7	3 43.12	+16 35.5	1.937	2.891	6.0	21.8
12 17	3 37.58	+ 9 20.0	1.897	2.780	10.9	21.2	12 17	3 35.11	+16 7.3	2.007	2.901	9.8	22.1
12 27	3 32.62	+ 9 28.2	1.979	2.780	14.0	21.4	12 27	3 29.33	+15 48.3	2.101	2.911	13.0	22.3
73035	2002 <i>EV</i> ₈₄		11 23.4	111°01	3°0/21.9	18	395945	2013 <i>AW</i> ₁₂₅		11 23.4	299°81	5°6/21.6	18
10 18	4 26.20	+13 3.0	2.103	2.913	13.4	20.5	10 18	4 24.66	+ 6 11.0	1.731	2.552	15.4	20.3
10 28	4 20.08	+12 28.5	2.044	2.936	10.2	20.3	10 28	4 19.70	+ 5 54.2	1.651	2.544	12.2	20.0
11 7	4 11.97	+11 53.9	2.010	2.959	6.7	20.2	11 7	4 12.20	+ 5 44.3	1.593	2.535	8.8	19.8
11 17	4 2.57	+11 21.9	2.004	2.981	3.6	20.0	11 17	4 2.84	+ 5 44.9	1.560	2.527	6.0	19.6
11 27	3 52.84	+10 55.7	2.028	3.002	3.6	20.1	11 27	3 52.68	+ 5 59.5	1.555	2.519	6.1	19.6
12 7	3 43.75	+10 38.1	2.081	3.022	6.7	20.3	12 7	3 42.95	+ 6 29.4	1.578	2.511	9.1	19.8
12 17	3 36.12	+10 30.7	2.162	3.042	9.9	20.5	12 17	3 34.76	+ 7 14.4	1.626	2.503	12.7	20.0
12 27	3 30.56	+10 34.4	2.268	3.061	12.7	20.8	12 27	3 28.98	+ 8 13.1	1.696	2.496	16.0	20.2
475944	2007 <i>EG</i> ₁₇₉		11 23.4	247°99	1°1/23.8	18	195470	2002 <i>GY</i> ₁₁₈		11 23.4	234°00	2°7/22.2	18
10 18	4 26.47	+24 11.2	1.821	2.630	15.3	22.2	10 18	4 24.17	+14 45.8	1.859	2.681	14.5	21.1
10 28	4 21.28	+24 7.3	1.727	2.617	11.9	22.0	10 28	4 19.18	+14 15.9	1.776	2.675	11.2	20.9
11 7	4 13.34	+23 54.5	1.655	2.604	7.9	21.7	11 7	4 11.79	+13 43.9	1.716	2.668	7.3	20.6
11 17	4 3.31	+23 32.1	1.609	2.590	3.4	21.4	11 17	4 2.65	+13 12.4	1.682	2.662	3.6	20.4
11 27	3 52.33	+23 1.5	1.591	2.575	1.9	21.3	11 27	3 52.80	+12 44.9	1.676	2.654	3.5	20.4
12 7	3 41.77	+22 26.1	1.602	2.561	6.4	21.6	12 7	3 43.39	+12 24.8	1.699	2.647	7.3	20.6
12 17	3 32.85	+21 50.7	1.641	2.546	10.8	21.8	12 17	3 35.48	+12 15.1	1.749	2.640	11.2	20.8
12 27	3 26.52	+21 20.7	1.703	2.530	14.7	22.0	12 27	3 29.88	+12 17.6	1.823	2.632	14.7	21.0
337958	2002 <i>AN</i> ₁₀₂		11 23.4	350°57	7°3/26.5	18	136136	2003 <i>ST</i> ₁₄₇		11 23.4	72°78	6°0/25.7	18
10 18	4 25.29	+36 53.3	1.394	2.192	19.6	20.5	10 18	4 29.68	+33 48.7	1.410	2.210	19.4	19.8
10 28	4 21.50	+37 28.9	1.318	2.188	16.3	20.3	10 28	4 24.64	+34 23.8	1.339	2.213	15.7	19.6
11 7	4 13.99	+37 43.7	1.261	2.184	12.5	20.0	11 7	4 15.90	+34 41.1	1.286	2.216	11.6	19.4
11 17	4 3.66	+37 32.0	1.225	2.181	8.9	19.8	11 17	4 4.40	+34 35.4	1.256	2.220	7.7	19.2
11 27	3 52.15	+36 51.8	1.214	2.179	7.3	19.7	11 27	3 51.81	+34 5.2	1.252	2.223	6.0	19.1
12 7	3 41.45	+35 47.1	1.228	2.177	9.2	19.8	12 7	3 40.08	+33 14.3	1.274	2.226	8.6	19.2
12 17	3 33.23	+34 27.2	1.265	2.176	12.9	20.1	12 17	3 30.86	+32 11.4	1.320	2.229	12.6	19.5
12 27	3 28.62	+33 3.6	1.325	2.176	16.7	20.3	12 27	3 25.25	+31 6.7	1.389	2.233	16.5	19.7
126877	2002 <i>EZ</i> ₉₀		11 23.4	153°60	1°5/22.7	18	2487						

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
69585	1998 <i>DN</i> ₃₅		11 23.4 263°84	0°7/23.6	18		24650	1986 <i>QM</i>		11 23.4 103°76	1°0/23.8	18	
10 18	4 26.86	+23 2.0	1.516	2.339	17.2	19.1	10 18	4 28.49	+24 29.4	1.686	2.496	16.3	19.0
10 28	4 22.09	+22 57.6	1.428	2.326	13.4	18.8	10 28	4 22.59	+24 20.5	1.623	2.513	12.5	18.8
11 7	4 14.13	+22 44.0	1.361	2.313	8.8	18.5	11 7	4 13.96	+24 1.8	1.581	2.530	8.2	18.6
11 17	4 3.71	+22 20.9	1.318	2.300	3.7	18.2	11 17	4 3.48	+23 33.3	1.565	2.546	3.5	18.3
11 27	3 52.17	+21 49.8	1.302	2.287	2.0	18.0	11 27	3 52.45	+22 57.3	1.577	2.562	1.9	18.3
12 7	3 41.11	+21 15.0	1.314	2.274	7.4	18.3	12 7	3 42.24	+22 18.0	1.618	2.577	6.4	18.6
12 17	3 32.00	+20 42.0	1.351	2.260	12.4	18.6	12 17	3 33.98	+21 40.7	1.686	2.592	10.6	18.9
12 27	3 25.92	+20 16.6	1.411	2.247	16.8	18.8	12 27	3 28.42	+21 10.0	1.779	2.606	14.2	19.1
105037	2000 <i>KS</i> ₃₉		11 23.4 134°61	1°7/22.5	18		409120	2003 <i>UR</i> ₂		11 23.4 322°89	10°4/25.7	16	
10 18	4 23.70	+16 15.2	2.292	3.102	12.5	21.6	10 18	4 33.50	+43 46.8	2.007	2.735	16.7	20.7
10 28	4 18.23	+15 51.9	2.220	3.113	9.5	21.4	10 28	4 27.93	+45 49.6	1.912	2.718	14.7	20.5
11 7	4 10.85	+15 26.1	2.172	3.123	6.1	21.2	11 7	4 18.52	+47 39.6	1.838	2.701	12.6	20.3
11 17	4 2.20	+14 59.9	2.153	3.133	2.7	21.0	11 17	4 5.74	+49 7.3	1.788	2.685	10.9	20.2
11 27	3 53.11	+14 35.6	2.163	3.143	2.5	21.0	11 27	3 50.92	+50 4.8	1.764	2.669	10.4	20.1
12 7	3 44.51	+14 15.8	2.203	3.152	5.7	21.3	12 7	3 35.98	+50 28.9	1.765	2.653	11.3	20.2
12 17	3 37.19	+14 3.0	2.272	3.161	9.0	21.5	12 17	3 22.98	+50 22.7	1.791	2.639	13.2	20.2
12 27	3 31.76	+13 58.7	2.366	3.169	11.9	21.7	12 27	3 13.53	+49 54.6	1.839	2.625	15.5	20.4
511037	2013 <i>RY</i> ₂₀		11 23.4 56°35	3°8/22.1	18		97496	2000 <i>CU</i> ₈₆		11 23.4 334°38	10°2/29.1	18	
10 18	4 27.13	+14 32.0	1.172	2.018	19.7	20.6	10 18	4 30.90	+50 0.6	2.234	2.925	16.1	18.6
10 28	4 22.10	+13 49.8	1.128	2.039	15.0	20.3	10 28	4 25.34	+51 14.7	2.151	2.921	14.4	18.5
11 7	4 13.82	+13 6.5	1.104	2.060	9.8	20.1	11 7	4 16.34	+52 9.1	2.087	2.918	12.6	18.4
11 17	4 3.41	+12 26.5	1.102	2.082	4.9	19.9	11 17	4 4.65	+52 37.0	2.044	2.914	11.0	18.3
11 27	3 52.49	+11 55.4	1.126	2.105	4.8	20.0	11 27	3 51.71	+52 33.9	2.025	2.911	10.3	18.2
12 7	3 42.72	+11 37.7	1.176	2.127	9.3	20.3	12 7	3 39.32	+52 0.2	2.030	2.908	10.6	18.2
12 17	3 35.37	+11 35.7	1.249	2.150	13.9	20.6	12 17	3 29.09	+51 1.0	2.060	2.905	11.9	18.3
12 27	3 31.22	+11 49.9	1.343	2.172	17.8	21.0	12 27	3 22.17	+49 44.9	2.113	2.902	13.6	18.4
139057	2001 <i>FB</i> ₁		11 23.4 229°38	3°6/24.8	18		129150	2005 <i>EF</i> ₉₃		11 23.4 109°46	4°7/21.7	18	
10 18	4 28.90	+29 29.0	1.635	2.437	17.1	20.6	10 18	4 26.87	+ 6 14.7	2.076	2.882	13.8	19.7
10 28	4 23.57	+29 47.9	1.550	2.431	13.6	20.4	10 28	4 20.68	+ 6 0.5	2.016	2.900	10.7	19.5
11 7	4 15.03	+29 54.0	1.485	2.424	9.5	20.1	11 7	4 12.44	+ 5 52.1	1.979	2.918	7.6	19.4
11 17	4 4.05	+29 44.1	1.444	2.417	5.4	19.9	11 17	4 2.84	+ 5 52.4	1.970	2.935	5.1	19.2
11 27	3 52.01	+29 17.8	1.431	2.410	3.8	19.7	11 27	3 52.84	+ 6 3.5	1.989	2.951	5.2	19.3
12 7	3 40.53	+28 38.3	1.446	2.403	7.2	19.9	12 7	3 43.42	+ 6 26.4	2.039	2.968	7.7	19.5
12 17	3 31.07	+27 51.8	1.487	2.395	11.5	20.2	12 17	3 35.45	+ 7 0.9	2.115	2.983	10.6	19.7
12 27	3 24.69	+27 6.0	1.551	2.387	15.5	20.4	12 27	3 29.56	+ 7 45.8	2.217	2.998	13.3	19.9
29425	1997 <i>CZ</i> ₂₁		11 23.4 210°90	1°7/23.9	18		407112	2009 <i>SX</i> ₃₀₀		11 23.4 115°42	0°2/23.5	18	
10 18	4 29.32	+24 33.4	1.396	2.218	18.4	19.0	10 18	4 23.42	+21 56.6	2.500	3.300	11.9	22.1
10 28	4 24.14	+24 41.6	1.319	2.216	14.4	18.7	10 28	4 17.92	+21 47.5	2.429	3.316	9.1	21.9
11 7	4 15.50	+24 39.7	1.263	2.213	9.6	18.5	11 7	4 10.62	+21 33.0	2.382	3.331	5.8	21.8
11 17	4 4.25	+24 25.9	1.230	2.211	4.3	18.2	11 17	4 2.13	+21 13.7	2.364	3.346	2.3	21.6
11 27	3 51.91	+24 1.2	1.223	2.207	2.4	18.0	11 27	3 53.25	+20 51.1	2.376	3.361	1.3	21.5
12 7	3 40.25	+23 29.6	1.244	2.204	7.6	18.3	12 7	3 44.85	+20 27.7	2.418	3.375	4.7	21.8
12 17	3 30.85	+22 57.3	1.290	2.201	12.7	18.6	12 17	3 37.67	+20 6.2	2.490	3.389	7.9	22.0
12 27	3 24.80	+22 30.6	1.358	2.197	17.1	18.9	12 27	3 32.30	+19 49.3	2.588	3.402	10.7	22.2
466925	2015 <i>YC</i> ₆		11 23.4 355°82	3°0/25.1	17		318164	2004 <i>QC</i> ₁₅		11 23.4 54°94	3°3/25.3	17	
10 18	4 21.78	+30 41.0	2.075	2.870	14.1	20.7	10 18	4 23.93	+31 21.7	1.983	2.775	14.8	20.2
10 28	4 17.35	+30 38.7	1.991	2.868	11.2	20.5	10 28	4 18.99	+31 21.2	1.911	2.785	11.7	20.0
11 7	4 10.58	+30 23.7	1.930	2.867	7.9	20.3	11 7	4 11.62	+31 7.2	1.860	2.795	8.3	19.9
11 17	4 2.17	+29 55.0	1.894	2.866	4.5	20.1	11 17	4 2.58	+30 38.5	1.835	2.805	4.8	19.7
11 27	3 53.13	+29 13.8	1.887	2.865	3.1	20.0	11 27	3 53.00	+29 56.2	1.839	2.816	3.4	19.6
12 7	3 44.59	+28 23.4	1.908	2.865	5.7	20.1	12 7	3 44.06	+29 4.4	1.871	2.827	5.9	19.8
12 17	3 37.57	+27 29.0	1.957	2.865	9.2	20.4	12 17	3 36.78	+28 8.4	1.930	2.837	9.3	20.0
12 27	3 32.79	+26 36.3	2.031	2.865	12.4	20.6	12 27	3 31.89	+27 14.3	2.015	2.848	12.5	20.2
306319	2011 <i>SZ</i> ₉₁		11 23.4 8°79	3°1/24.5	18		487530	2014 <i>UU</i> ₁₃₂		11 23.4 86°48	1°2/23.9	18	
10 18	4 23.30	+27 10.3	1.441	2.266	17.8	20.1	10 18	4 26.12	+23 27.8	2.468	3.261	12.2	20.9
10 28	4 19.41	+27 34.8	1.371	2.267	14.0	19.9	10 28	4 20.03	+23 54.4	2.402	3.283	9.4	20.7
11 7	4 12.35	+27 47.8	1.321	2.269	9.6	19.6	11 7	4 12.01	+24 15.6	2.361	3.305	6.2	20.5
11 17	4 2.97	+27 47.3	1.295	2.272	5.0	19.4	11 17	4 2.69	+24 30.5	2.348	3.327	2.8	20.4
11 27	3 52.67	+27 33.1	1.295	2.276	3.4	19.3	11 27	3 52.94	+24 39.2	2.365	3.349	1.7	20.3
12 7	3 43.07	+27 8.6	1.320	2.281	7.2	19.5	12 7	3 43.69	+24 42.9	2.414	3.370	4.8	20.6
12 17	3 35.54	+26 39.4	1.371	2.287	11.7	19.8	12 17	3 35.73	+24 43.9	2.491	3.391	7.9	20.8
12 27	3 31.08	+26 11.8	1.444	2.293	15.7	20.1	12 27	3 29.71	+24 44.8	2.596	3.412	10.6	21.0
295200	2008 <i>FD</i> ₁₁₄		11 23.4 131°39	1°3/22.8	18		118926	2000 <i>VT</i> ₅₉		11 23.4 297°85	0°3/23.5	18	
10 18	4 27.78	+18 29.5	1.760	2.576	15.4	22.2	10 18	4 22.76	+21 51.5	2.032	2.845	13.8	20.4
10 28	4 21.90	+18 7.9	1.692	2.588	11.8	22.0	10 28	4 18.06	+21 49.4	1.946	2.840	10.6	20.2
11 7	4 13.47	+17 41.5	1.646	2.599	7.6	21.8	11 7	4 11.07	+21 41.3	1.883	2.834	6.9	20.0
11 17	4 3.29	+17 11.9	1.627	2.610	3.1	21.6	11 17	4 2.41	+21 27.4	1.847	2.829	2.8	19.7
11 27	3 52.53	+16 42.2	1.637	2.620	2.4	21.5	11 27	3 53.07	+21 9.2	1.839	2.824	1.5	19.6
12 7	3 42.48	+16 16.1	1.676	2.630	6.7	21.8	12 7	3 44.13	+20 49.4	1.860	2.819	5.7	19.9
12 17	3 34.18	+15 57.0	1.742	2.639	10.8	22.1	12 17	3 36.60	+20 31.3	1.909	2.813	9.6	20.1
12 27	3 28.41	+15 47.8	1.832	2.648	14.3	22.3	12 27	3 31.25	+20 18.2	1.983	2.808	13.0	20.3
303495	2005 <i>EF</i> ₁₂₅		11 23.4 115°04	2°7/22.1	18		470029	2					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
516072	2015 <i>TZ</i> ₂₅₈		11 23.4 126°02	0°1/23.3	18		198821	2005 <i>ER</i> ₂₅₈		11 23.4 310°74	5°3/25.9	18	
10 18	4 25.20	+21 49.7	2.272	3.074	12.8	21.8	10 18	4 24.75	+35 25.1	2.269	3.038	13.9	20.2
10 28	4 19.41	+21 26.5	2.202	3.090	9.8	21.6	10 28	4 19.82	+36 9.0	2.175	3.027	11.4	20.0
11 7	4 11.64	+20 56.8	2.155	3.105	6.3	21.4	11 7	4 12.38	+36 40.8	2.104	3.018	8.7	19.8
11 17	4 2.55	+20 21.8	2.137	3.119	2.5	21.2	11 17	4 3.04	+36 57.1	2.057	3.008	6.3	19.6
11 27	3 53.07	+19 43.9	2.148	3.133	1.5	21.1	11 27	3 52.81	+36 55.9	2.039	2.998	5.3	19.6
12 7	3 44.14	+19 6.4	2.191	3.146	5.2	21.4	12 7	3 42.91	+36 38.3	2.048	2.989	6.8	19.6
12 17	3 36.60	+18 32.7	2.262	3.159	8.7	21.7	12 17	3 34.45	+36 8.0	2.085	2.980	9.4	19.8
12 27	3 31.06	+18 6.0	2.359	3.171	11.6	21.9	12 27	3 28.34	+35 30.8	2.147	2.971	12.2	20.0
243920	2001 <i>MM</i> ₂₁		11 23.4 147°97	3°3/25.2	18		483754	2005 <i>UJ</i> ₁₃₄		11 23.4 340°50	5°9/25.1	17	
10 18	4 26.26	+31 7.2	2.155	2.938	14.1	20.7	10 18	4 25.66	+31 51.2	1.650	2.450	17.0	20.6
10 28	4 20.66	+31 13.6	2.074	2.943	11.2	20.5	10 28	4 21.39	+33 2.2	1.564	2.439	13.8	20.4
11 7	4 12.68	+31 7.8	2.016	2.949	7.9	20.3	11 7	4 13.87	+34 2.8	1.500	2.429	10.3	20.2
11 17	4 3.03	+30 48.2	1.985	2.954	4.7	20.1	11 17	4 3.77	+34 47.6	1.459	2.420	7.1	20.0
11 27	3 52.78	+30 15.2	1.982	2.958	3.4	20.1	11 27	3 52.37	+35 12.5	1.445	2.412	6.0	19.9
12 7	3 43.08	+29 32.0	2.009	2.963	5.8	20.2	12 7	3 41.33	+35 17.6	1.457	2.404	8.2	20.0
12 17	3 34.96	+28 43.5	2.064	2.967	9.1	20.4	12 17	3 32.20	+35 6.8	1.494	2.398	11.8	20.2
12 27	3 29.16	+27 55.3	2.144	2.970	12.1	20.6	12 27	3 26.18	+34 47.1	1.554	2.392	15.3	20.4
115752	2003 <i>US</i> ₂₀₂		11 23.4 265°50	1°0/23.8	18		274202	2008 <i>HJ</i> ₄₄		11 23.4 127°53	0°8/23.0	18	
10 18	4 23.52	+23 7.3	2.444	3.243	12.1	19.5	10 18	4 28.10	+19 45.0	1.790	2.603	15.3	21.8
10 28	4 18.38	+23 25.9	2.347	3.232	9.4	19.3	10 28	4 22.13	+19 24.9	1.723	2.617	11.7	21.6
11 7	4 11.19	+23 39.6	2.273	3.220	6.2	19.1	11 7	4 13.64	+18 59.0	1.678	2.630	7.5	21.4
11 17	4 2.47	+23 47.9	2.228	3.208	2.8	18.9	11 17	4 3.43	+18 28.7	1.660	2.643	3.0	21.1
11 27	3 53.06	+23 50.7	2.212	3.196	1.6	18.8	11 27	3 52.67	+17 56.9	1.671	2.655	2.0	21.1
12 7	3 43.91	+23 49.3	2.227	3.184	5.0	19.0	12 7	3 42.62	+17 27.2	1.711	2.666	6.5	21.4
12 17	3 35.90	+23 46.0	2.270	3.172	8.4	19.2	12 17	3 34.33	+17 3.5	1.778	2.677	10.6	21.7
12 27	3 29.78	+23 43.6	2.340	3.160	11.5	19.3	12 27	3 28.54	+16 48.9	1.870	2.687	14.0	21.9
111490	2001 <i>YO</i> ₄₆		11 23.4 279°82	0°3/23.5	18		342101	2008 <i>SW</i> ₆₄		11 23.4 85°26	1°4/22.6	18	
10 18	4 23.20	+21 54.7	2.034	2.846	13.8	20.0	10 18	4 20.97	+17 30.0	2.392	3.205	12.0	21.6
10 28	4 18.40	+21 52.5	1.948	2.841	10.6	19.8	10 28	4 16.13	+17 2.9	2.323	3.218	9.1	21.5
11 7	4 11.29	+21 44.3	1.885	2.836	6.9	19.6	11 7	4 9.52	+16 32.7	2.279	3.231	5.8	21.3
11 17	4 2.53	+21 30.3	1.849	2.831	2.8	19.3	11 17	4 1.76	+16 1.2	2.262	3.244	2.5	21.1
11 27	3 53.07	+21 11.8	1.842	2.826	1.5	19.2	11 27	3 53.61	+15 31.0	2.275	3.257	2.1	21.1
12 7	3 44.02	+20 51.7	1.863	2.822	5.7	19.5	12 7	3 45.94	+15 4.8	2.318	3.270	5.3	21.3
12 17	3 36.39	+20 33.2	1.913	2.817	9.6	19.7	12 17	3 39.45	+14 45.0	2.390	3.282	8.5	21.6
12 27	3 30.95	+20 19.6	1.987	2.812	13.0	19.9	12 27	3 34.72	+14 33.5	2.486	3.295	11.2	21.8
136141	2003 <i>SM</i> ₂₂₈		11 23.4 129°76	0°4/23.6	18		447602	2006 <i>UM</i> ₁₁₁		11 23.4 11°64	5°9/26.0	17	
10 18	4 29.82	+22 49.9	1.614	2.428	16.7	21.2	10 18	4 24.10	+34 24.9	1.511	2.312	18.2	21.2
10 28	4 23.78	+22 39.1	1.547	2.440	12.9	20.9	10 28	4 20.14	+34 55.7	1.440	2.315	14.8	20.9
11 7	4 14.85	+22 19.5	1.501	2.452	8.4	20.7	11 7	4 12.92	+35 8.9	1.389	2.318	11.0	20.7
11 17	4 3.92	+21 51.4	1.481	2.463	3.4	20.4	11 17	4 3.29	+35 0.4	1.361	2.322	7.4	20.5
11 27	3 52.33	+21 17.2	1.489	2.474	1.8	20.4	11 27	3 52.73	+34 29.4	1.358	2.327	5.9	20.5
12 7	3 41.54	+20 41.2	1.526	2.484	6.7	20.7	12 7	3 42.94	+33 39.8	1.381	2.333	8.0	20.6
12 17	3 32.77	+20 8.5	1.589	2.493	11.2	21.0	12 17	3 35.35	+32 39.1	1.429	2.340	11.7	20.8
12 27	3 26.84	+19 43.6	1.676	2.502	15.0	21.2	12 27	3 30.92	+31 36.2	1.499	2.347	15.3	21.1
88360	2001 <i>OM</i> ₁₀₃		11 23.4 43°87	13°7/14.6	18		15463	1999 <i>AT</i> ₂		11 23.4 34°06	2°8/22.5	18	
10 18	4 22.63	- 1 46.6	1.278	2.111	19.1	18.5	10 18	4 23.95	+13 27.1	1.702	2.529	15.4	17.7
10 28	4 18.35	- 5 16.4	1.246	2.126	16.3	18.4	10 28	4 19.13	+13 19.9	1.634	2.535	11.8	17.5
11 7	4 11.30	- 8 30.4	1.237	2.142	14.2	18.3	11 7	4 11.82	+13 13.5	1.588	2.541	7.7	17.3
11 17	4 2.46	-11 12.5	1.252	2.159	13.7	18.3	11 17	4 2.76	+13 9.9	1.567	2.547	3.8	17.1
11 27	3 53.19	-13 10.2	1.290	2.176	14.9	18.5	11 27	3 53.04	+13 11.4	1.575	2.554	3.5	17.1
12 7	3 44.87	-14 19.0	1.351	2.194	17.0	18.7	12 7	3 43.91	+13 20.1	1.610	2.561	7.3	17.3
12 17	3 38.58	-14 41.0	1.430	2.212	19.3	18.9	12 17	3 36.42	+13 37.3	1.672	2.568	11.2	17.6
12 27	3 35.00	-14 23.4	1.524	2.230	21.4	19.1	12 27	3 31.36	+14 3.8	1.757	2.576	14.7	17.8
310120	2011 <i>DR</i> ₂₅		11 23.4 278°05	0°2/23.5	17		491219	2011 <i>UP</i> ₁₇₉		11 23.4 36°21	3°2/24.9	15	
10 18	4 21.52	+22 4.7	2.309	3.117	12.5	21.7	10 18	4 24.48	+29 21.5	1.490	2.306	17.8	21.3
10 28	4 16.89	+21 56.2	2.215	3.106	9.6	21.5	10 28	4 20.05	+29 24.6	1.430	2.320	13.9	21.1
11 7	4 10.23	+21 41.7	2.144	3.095	6.3	21.3	11 7	4 12.60	+29 13.0	1.391	2.335	9.6	20.9
11 17	4 2.09	+21 21.7	2.101	3.084	2.5	21.0	11 17	4 3.08	+28 45.3	1.375	2.350	5.2	20.7
11 27	3 53.32	+20 57.7	2.088	3.073	1.4	20.9	11 27	3 52.92	+28 3.4	1.386	2.367	3.4	20.6
12 7	3 44.88	+20 32.3	2.104	3.061	5.2	21.2	12 7	3 43.65	+27 12.4	1.423	2.383	6.9	20.9
12 17	3 37.63	+20 8.7	2.148	3.050	8.8	21.4	12 17	3 36.50	+26 19.0	1.487	2.401	11.1	21.2
12 27	3 32.30	+19 50.0	2.218	3.039	12.0	21.6	12 27	3 32.28	+25 30.3	1.573	2.419	14.8	21.4
99059	2001 <i>EM</i> ₂₄		11 23.4 86°08	4°8/25.2	18		293477	Teotihuacan		11 23.4 178°75	0°1/23.5	18	
10 18	4 29.73	+32 54.3	2.329	3.095	13.6	18.8	10 18	4 22.74	+21 32.0	2.551	3.352	11.6	21.8
10 28	4 23.40	+34 1.3	2.251	3.104	11.0	18.6	10 28	4 17.53	+21 25.4	2.465	3.353	8.9	21.6
11 7	4 14.55	+34 58.5	2.197	3.114	8.2	18.4	11 7	4 10.50	+21 13.9	2.405	3.354	5.8	21.4
11 17	4 3.85	+35 41.9	2.169	3.123	5.7	18.3	11 17	4 2.19	+20 57.8	2.372	3.354	2.3	21.2
11 27	3 52.33	+36 8.8	2.171	3.132	4.9	18.3	11 27	3 53.38	+20 38.5	2.369	3.354	1.3	21.1
12 7	3 41.21	+36 19.6	2.202	3.141	6.5	18.4	12 7	3 44.94	+20 18.2	2.397	3.354	4.8	21.3
12 17	3 31.58	+36 17.2	2.262	3.151	9.1	18.6	12 17	3 37.64	+19 59.5	2.455	3.353	8.0	21.5
12 27	3 24.32	+36 6.6	2.347	3.160	11.7	18.8	12 27	3 32.10	+19 45.2	2.538	3.352	10.8	21.7
260569	2005 <i>EM</i> ₂₅₉		11 23.4 294°86	0°5/23.6	18		213808	2003 <i>HO</i> <					

EPHEMERIDES

11 23.4

11 23.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
19801	Karenlemmon		11 23.4	86°37'	0°4'/23.2	18	174437	2002 XK ₃₀		11 23.4	11°61'	6°9'/26.2	18
10 18	4 23.07	+20 48.7	2.035	2.849	13.7	19.1	10 18	4 23.86	+34 59.3	1.369	2.177	19.4	18.8
10 28	4 18.13	+20 31.0	1.962	2.856	10.5	18.9	10 28	4 20.35	+35 49.1	1.304	2.181	15.9	18.5
11 7	4 11.02	+20 7.4	1.912	2.864	6.7	18.7	11 7	4 13.26	+36 20.6	1.258	2.185	12.1	18.3
11 17	4 2.41	+19 39.1	1.889	2.871	2.7	18.5	11 17	4 3.51	+36 28.3	1.233	2.191	8.4	18.1
11 27	3 53.29	+19 8.5	1.895	2.879	1.6	18.4	11 27	3 52.71	+36 10.2	1.232	2.199	6.9	18.1
12 7	3 44.70	+18 38.8	1.930	2.887	5.7	18.7	12 7	3 42.74	+35 29.8	1.257	2.207	8.9	18.2
12 17	3 37.55	+18 13.4	1.993	2.894	9.4	18.9	12 17	3 35.19	+34 34.9	1.305	2.216	12.5	18.4
12 27	3 32.53	+17 55.5	2.080	2.901	12.6	19.2	12 27	3 31.09	+33 35.2	1.375	2.227	16.1	18.7
391158	2005 YW ₁₄₃		11 23.4	345°79'	1°2'/23.0	18	304138	2006 KR ₇₇		11 23.4	73°50'	0°6'/23.1	16
10 18	4 21.60	+18 28.8	1.241	2.091	18.6	20.6	10 18	4 26.70	+22 36.7	1.752	2.566	15.6	20.9
10 28	4 18.45	+18 22.0	1.168	2.082	14.4	20.3	10 28	4 20.87	+21 42.1	1.700	2.595	11.8	20.7
11 7	4 11.99	+18 10.4	1.115	2.074	9.3	20.0	11 7	4 12.68	+20 38.3	1.671	2.623	7.5	20.6
11 17	4 3.00	+17 55.3	1.084	2.068	3.8	19.7	11 17	4 3.02	+19 28.3	1.668	2.651	2.9	20.3
11 27	3 52.92	+17 39.8	1.078	2.062	2.7	19.6	11 27	3 53.09	+18 17.0	1.695	2.679	1.9	20.3
12 7	3 43.44	+17 27.9	1.097	2.058	8.3	19.9	12 7	3 44.05	+17 10.3	1.751	2.707	6.3	20.7
12 17	3 36.09	+17 23.6	1.139	2.054	13.6	20.2	12 17	3 36.85	+16 13.3	1.835	2.734	10.2	21.0
12 27	3 31.95	+17 30.2	1.202	2.052	18.1	20.5	12 27	3 32.08	+15 29.5	1.942	2.761	13.5	21.2
5494	Johanmohr		11 23.4	30°67'	0°7'/23.7	18 R	219509	2001 KC ₁₆		11 23.4	161°85'	1°5'/22.8	18
10 18	4 23.04	+23 14.7	1.835	2.652	14.9	17.0	10 18	4 28.48	+17 1.7	1.931	2.741	14.5	21.4
10 28	4 18.43	+23 8.3	1.761	2.656	11.5	16.8	10 28	4 22.36	+16 49.6	1.855	2.748	11.1	21.2
11 7	4 11.38	+22 53.9	1.709	2.660	7.5	16.5	11 7	4 13.82	+16 34.6	1.803	2.754	7.2	21.0
11 17	4 2.60	+22 32.0	1.683	2.665	3.1	16.3	11 17	4 3.58	+16 18.0	1.777	2.759	3.0	20.8
11 27	3 53.18	+22 4.4	1.685	2.669	1.6	16.2	11 27	3 52.72	+16 2.0	1.781	2.763	2.4	20.7
12 7	3 44.33	+21 34.6	1.715	2.674	6.0	16.5	12 7	3 42.41	+15 49.3	1.815	2.767	6.5	21.0
12 17	3 37.08	+21 6.7	1.772	2.680	10.0	16.7	12 17	3 33.69	+15 42.6	1.876	2.770	10.4	21.2
12 27	3 32.20	+20 44.7	1.854	2.685	13.5	17.0	12 27	3 27.32	+15 44.2	1.962	2.772	13.7	21.5
72271	2001 AS ₄₂		11 23.4	53°33'	5°8'/25.3	18	516717	2009 BK ₁₀		11 23.4	28°62'	10°3'/28.8	18
10 18	4 30.51	+31 32.3	1.264	2.078	20.5	18.9	10 18	4 29.01	+44 16.9	1.435	2.197	20.8	20.2
10 28	4 25.48	+32 23.5	1.206	2.090	16.4	18.7	10 28	4 24.61	+45 11.3	1.372	2.206	17.9	20.0
11 7	4 16.56	+32 58.4	1.165	2.102	11.9	18.5	11 7	4 16.14	+45 39.5	1.326	2.215	14.7	19.9
11 17	4 4.78	+33 11.6	1.147	2.115	7.5	18.3	11 17	4 4.67	+45 33.9	1.300	2.224	11.9	19.7
11 27	3 51.97	+33 1.0	1.154	2.128	5.8	18.2	11 27	3 52.13	+44 51.1	1.297	2.235	10.4	19.7
12 7	3 40.20	+32 30.2	1.187	2.141	8.7	18.4	12 7	3 40.73	+43 35.5	1.319	2.246	11.1	19.7
12 17	3 31.17	+31 47.4	1.243	2.155	13.0	18.7	12 17	3 32.22	+41 57.5	1.363	2.258	13.5	19.9
12 27	3 25.92	+31 2.3	1.321	2.169	16.9	19.0	12 27	3 27.63	+40 10.5	1.431	2.270	16.3	20.1
2809	Vernadskij		11 23.4	55°20'	1°7'/24.1	18	474746	2005 OC ₂₃		11 23.4	147°62'	0°3'/23.6	16
10 18	4 27.78	+24 59.0	1.358	2.183	18.6	16.9	10 18	4 28.70	+23 18.5	1.923	2.726	14.8	22.9
10 28	4 22.66	+25 5.5	1.304	2.202	14.4	16.7	10 28	4 22.54	+22 56.8	1.849	2.737	11.4	22.7
11 7	4 14.32	+25 1.0	1.270	2.221	9.5	16.5	11 7	4 13.91	+22 26.3	1.798	2.747	7.4	22.5
11 17	4 3.78	+24 44.7	1.259	2.240	4.3	16.2	11 17	4 3.60	+21 47.8	1.774	2.756	3.0	22.3
11 27	3 52.60	+24 18.4	1.276	2.260	2.4	16.2	11 27	3 52.74	+21 3.9	1.780	2.765	1.6	22.2
12 7	3 42.41	+23 46.6	1.318	2.280	7.1	16.5	12 7	3 42.54	+20 18.7	1.816	2.773	6.0	22.5
12 17	3 34.55	+23 15.2	1.386	2.299	11.8	16.8	12 17	3 34.04	+19 36.9	1.880	2.780	10.0	22.7
12 27	3 29.85	+22 49.9	1.477	2.320	15.7	17.1	12 27	3 27.98	+19 3.0	1.968	2.786	13.4	23.0
68376	2001 PC ₂₃		11 23.4	109°52'	5°9'/20.9	18	122040	2000 GU ₇₆		11 23.4	156°65'	0°8'/23.7	18
10 18	4 23.60	+ 4 26.2	2.005	2.818	13.9	19.7	10 18	4 30.77	+23 17.4	1.622	2.432	16.8	20.8
10 28	4 18.39	+ 3 47.1	1.942	2.827	11.1	19.5	10 28	4 24.67	+23 13.8	1.548	2.439	13.0	20.5
11 7	4 11.11	+ 3 14.6	1.901	2.835	8.2	19.3	11 7	4 15.57	+23 1.3	1.496	2.446	8.5	20.3
11 17	4 2.44	+ 2 52.9	1.887	2.844	6.2	19.2	11 17	4 4.34	+22 39.7	1.470	2.451	3.6	20.0
11 27	3 53.32	+ 2 45.4	1.901	2.852	6.4	19.3	11 27	3 52.33	+22 10.5	1.472	2.456	1.9	19.9
12 7	3 44.71	+ 2 54.2	1.942	2.860	8.7	19.4	12 7	3 41.03	+21 37.8	1.502	2.461	6.8	20.2
12 17	3 37.49	+ 3 19.1	2.010	2.868	11.5	19.6	12 17	3 31.76	+21 6.8	1.560	2.464	11.3	20.5
12 27	3 32.31	+ 3 58.8	2.101	2.876	14.1	19.8	12 27	3 25.40	+20 42.4	1.641	2.467	15.2	20.8
360981	2005 UQ ₃₀₇		11 23.4	43°45'	1°9'/24.1	18	152785	1999 RG ₂₄₉		11 23.4	356°11'	5°6'/20.6	18
10 18	4 26.28	+24 10.4	1.966	2.771	14.5	20.6	10 18	4 19.89	+ 7 33.3	1.872	2.699	14.2	19.1
10 28	4 20.89	+24 47.2	1.889	2.775	11.2	20.4	10 28	4 15.83	+ 6 34.6	1.801	2.698	11.2	18.9
11 7	4 13.00	+25 18.2	1.834	2.780	7.5	20.2	11 7	4 9.63	+ 5 39.1	1.754	2.696	8.0	18.7
11 17	4 3.28	+25 41.4	1.806	2.785	3.6	20.0	11 17	4 1.93	+ 4 51.7	1.732	2.696	5.9	18.6
11 27	3 52.81	+25 56.1	1.807	2.789	2.3	19.9	11 27	3 53.68	+ 4 17.4	1.737	2.695	6.3	18.6
12 7	3 42.80	+26 3.5	1.837	2.794	5.9	20.1	12 7	3 45.90	+ 3 59.8	1.770	2.695	8.9	18.8
12 17	3 34.35	+26 6.2	1.895	2.800	9.6	20.4	12 17	3 39.49	+ 4 0.3	1.827	2.695	12.0	19.0
12 27	3 28.30	+26 8.0	1.977	2.805	12.9	20.6	12 27	3 35.16	+ 4 18.4	1.907	2.695	14.9	19.2
344985	2004 YV ₁₀		11 23.4	351°24'	0°7'/23.1	18	395429	2011 SJ ₂₀₉		11 23.4	48°38'	2°1'/24.2	18
10 18	4 23.62	+19 38.4	1.476	2.309	17.0	20.5	10 18	4 26.11	+25 30.7	1.756	2.566	15.7	20.6
10 28	4 19.46	+19 29.8	1.401	2.306	13.1	20.2	10 28	4 21.03	+25 52.6	1.682	2.570	12.3	20.4
11 7	4 12.36	+19 15.5	1.348	2.304	8.5	19.9	11 7	4 13.22	+26 6.0	1.629	2.575	8.2	20.2
11 17	4 3.08	+18 56.6	1.319	2.302	3.4	19.6	11 17	4 3.42	+26 9.4	1.601	2.579	4.0	19.9
11 27	3 52.93	+18 35.5	1.316	2.301	2.2	19.6	11 27	3 52.84	+26 2.6	1.601	2.584	2.5	19.9
12 7	3 43.38	+18 16.2	1.340	2.300	7.3	19.9	12 7	3 42.83	+25 48.3	1.630	2.589	6.3	20.1
12 17	3 35.72	+18 2.6	1.390	2.299	12.1	20.2	12 17	3 34.59	+25 30.3	1.685	2.594	10.4	20.4
12 27	3 30.91	+17 58.2	1.461	2.299	16.2	20.4	12 27	3 28.99	+25 13.7	1.765	2.599	14.0	20.6
256472	2007 DR ₄₅		11 23.4	84°28'	5°1'/26.5	17	42523	Ragazzileonardo		11 23.4	36°78'	22°1'/19.9	18
10 18	4 26.32	+36 49.6											

EPHEMERIDES

11 23.4

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
168338	1994 <i>UW</i> ₁₀		11 23.4 294°91	1.4/22.6	18		73995	1998 <i>FQ</i> ₂₅		11 23.4 312°51	4.7/25.8	18	
10 18	4 22.19	+20 44.1	1.751	2.575	15.1	20.2	10 18	4 23.06	+34 35.7	2.257	3.032	13.8	19.2
10 28	4 18.01	+19 49.1	1.660	2.561	11.7	20.0	10 28	4 18.53	+35 3.1	2.159	3.017	11.3	19.0
11 7	4 11.27	+18 43.9	1.592	2.547	7.5	19.7	11 7	4 11.59	+35 18.1	2.083	3.003	8.5	18.8
11 17	4 2.66	+17 31.4	1.549	2.532	3.1	19.4	11 17	4 2.82	+35 17.7	2.032	2.988	5.8	18.6
11 27	3 53.25	+16 16.4	1.535	2.518	2.6	19.3	11 27	3 53.21	+35 1.0	2.008	2.974	4.8	18.5
12 7	3 44.31	+15 5.4	1.550	2.504	7.1	19.6	12 7	3 43.92	+34 29.5	2.013	2.960	6.4	18.6
12 17	3 36.94	+14 4.5	1.591	2.490	11.5	19.8	12 17	3 36.04	+33 47.4	2.046	2.946	9.3	18.7
12 27	3 32.01	+13 18.3	1.655	2.476	15.3	20.0	12 27	3 30.42	+33 0.5	2.103	2.933	12.2	18.9
424532	2008 <i>EZ</i> ₉₇		11 23.4 119°77	0°5/23.2	15		319440	2006 <i>KM</i> ₃₃		11 23.4 112°68	0°9/23.1	15	
10 18	4 30.92	+19 23.7	2.387	3.177	12.7	23.1	10 18	4 30.65	+19 27.8	1.562	2.380	17.0	21.8
10 28	4 23.55	+19 17.8	2.324	3.206	9.6	23.0	10 28	4 24.38	+19 11.5	1.502	2.398	13.0	21.5
11 7	4 14.23	+19 7.8	2.287	3.234	6.1	22.8	11 7	4 15.24	+18 49.4	1.464	2.416	8.3	21.3
11 17	4 3.66	+18 54.3	2.278	3.260	2.4	22.6	11 17	4 4.18	+18 22.9	1.451	2.434	3.3	21.1
11 27	3 52.76	+18 38.8	2.302	3.286	1.5	22.6	11 27	3 52.54	+17 54.9	1.466	2.450	2.2	21.0
12 7	3 42.50	+18 23.5	2.357	3.310	5.1	22.9	12 7	3 41.78	+17 29.3	1.510	2.466	7.1	21.7
12 17	3 33.69	+18 11.0	2.442	3.333	8.4	23.1	12 17	3 33.09	+17 10.1	1.581	2.482	11.5	21.4
12 27	3 26.92	+18 3.7	2.554	3.355	11.2	23.4	12 27	3 27.24	+17 0.6	1.675	2.496	15.2	21.9
282058	1999 <i>TO</i> ₂₄₄		11 23.4 81°70	5°0/20.8	18		26310	1998 <i>TX</i> ₆		11 23.4 53°85	2°6/22.6	01 C	
10 18	4 24.39	+11 13.5	1.701	2.528	15.4	20.6	10 18	4 43.74	+19 18.6	0.958	1.790	24.1	21.4
10 28	4 19.19	+9 54.5	1.648	2.547	11.9	20.4	10 28	4 34.04	+18 11.0	0.948	1.851	17.9	21.3
11 7	4 11.68	+8 35.8	1.618	2.566	8.2	20.3	11 7	4 20.85	+16 58.0	0.957	1.912	11.2	21.1
11 17	4 2.69	+7 23.4	1.615	2.585	5.3	20.1	11 17	4 6.03	+15 45.4	0.989	1.972	4.6	21.0
11 27	3 53.32	+6 23.4	1.639	2.604	5.8	20.2	11 27	3 51.78	+14 40.8	1.048	2.030	3.9	21.1
12 7	3 44.70	+5 40.3	1.692	2.622	8.8	20.4	12 7	3 39.92	+13 51.1	1.133	2.087	9.2	21.6
12 17	3 37.77	+5 16.5	1.770	2.641	12.1	20.7	12 17	3 31.50	+13 20.0	1.243	2.143	14.0	22.0
12 27	3 33.17	+5 12.0	1.870	2.659	15.1	20.9	12 27	3 26.87	+13 8.0	1.373	2.197	17.8	22.4
478436	2012 <i>HY</i> ₆₇		11 23.4 93°93	2°8/22.2	16		410642	2008 <i>RR</i> ₁₀₆		11 23.4 55°95	0°1/23.4	18	
10 18	4 28.59	+16 4.4	1.597	2.419	16.5	21.8	10 18	4 22.95	+21 19.3	2.044	2.857	13.7	20.9
10 28	4 22.53	+15 19.5	1.544	2.443	12.5	21.6	10 28	4 17.94	+21 8.3	1.984	2.878	10.4	20.7
11 7	4 13.89	+14 31.5	1.514	2.467	8.1	21.4	11 7	4 10.85	+20 51.6	1.948	2.899	6.7	20.6
11 17	4 3.57	+13 43.9	1.510	2.490	3.8	21.2	11 17	4 2.39	+20 30.1	1.938	2.920	2.6	20.3
11 27	3 52.85	+13 1.2	1.534	2.513	3.6	21.3	11 27	3 53.53	+20 6.0	1.957	2.942	1.5	20.3
12 7	3 43.03	+12 27.8	1.586	2.535	7.6	21.6	12 7	3 45.29	+19 42.1	2.005	2.963	5.4	20.6
12 17	3 35.16	+12 6.9	1.665	2.556	11.6	21.9	12 17	3 38.51	+19 21.6	2.082	2.985	9.0	20.9
12 27	3 29.92	+12 0.1	1.767	2.577	15.0	22.1	12 27	3 33.81	+19 7.3	2.183	3.006	12.0	21.1
138092	2000 <i>DY</i> ₆₉		11 23.4 233°66	1°0/23.9	18		118123	3238 <i>T</i> ₋₃		11 23.4 332°20	6°4/25.4	18	
10 18	4 25.04	+24 9.1	2.161	2.962	13.4	20.4	10 18	4 30.19	+33 47.9	1.740	2.523	16.9	19.0
10 28	4 19.80	+24 8.4	2.067	2.953	10.4	20.2	10 28	4 24.80	+35 3.3	1.658	2.520	13.9	18.8
11 7	4 12.26	+24 0.2	1.997	2.944	6.9	20.0	11 7	4 16.08	+36 7.0	1.597	2.517	10.5	18.6
11 17	4 3.03	+23 44.2	1.954	2.934	3.0	19.7	11 17	4 4.74	+36 52.8	1.560	2.514	7.5	18.4
11 27	3 53.07	+23 21.4	1.940	2.924	1.6	19.6	11 27	3 52.13	+37 16.4	1.550	2.511	6.5	18.3
12 7	3 43.47	+22 54.4	1.955	2.913	5.5	19.8	12 7	3 39.94	+37 17.9	1.568	2.509	8.4	18.5
12 17	3 35.23	+22 26.9	1.999	2.903	9.3	20.0	12 17	3 29.74	+37 1.7	1.611	2.507	11.6	18.6
12 27	3 29.16	+22 3.0	2.069	2.891	12.7	20.2	12 27	3 22.72	+36 35.5	1.678	2.505	14.9	18.8
431382	2007 <i>EL</i> ₁₅₂		11 23.4 80°20	4°5/21.8	18		447484	2006 <i>RU</i> ₃₂		11 23.4 107°90	3°1/21.6	15	
10 18	4 26.18	+11 17.1	1.547	2.376	16.6	21.1	10 18	4 23.93	+14 8.5	2.143	2.957	13.1	22.5
10 28	4 20.86	+10 36.4	1.492	2.392	12.8	20.9	10 28	4 18.47	+13 9.5	2.081	2.975	10.0	22.3
11 7	4 12.92	+9 57.5	1.458	2.408	8.6	20.7	11 7	4 11.09	+12 8.7	2.044	2.994	6.6	22.1
11 17	4 3.23	+9 24.6	1.450	2.424	5.1	20.6	11 17	4 2.47	+11 9.8	2.035	3.012	3.6	22.0
11 27	3 53.03	+9 1.9	1.469	2.440	5.2	20.6	11 27	3 53.51	+10 17.0	2.056	3.029	3.8	22.0
12 7	3 43.62	+8 52.7	1.515	2.456	8.6	20.8	12 7	3 45.15	+9 34.1	2.107	3.046	6.7	22.2
12 17	3 36.08	+8 58.5	1.586	2.472	12.4	21.1	12 17	3 38.17	+9 3.9	2.185	3.062	9.9	22.5
12 27	3 31.14	+9 19.1	1.680	2.487	15.8	21.4	12 27	3 33.14	+8 47.5	2.287	3.078	12.6	22.7
110094	2001 <i>SP</i> ₁₂₁		11 23.4 184°86	5°3/26.2	18		356674	2011 <i>UQ</i> ₈₇		11 23.4 0°28	0°2/23.4	18	
10 18	4 27.30	+36 6.8	2.118	2.884	14.8	19.7	10 18	4 23.99	+19 20.7	1.593	2.421	16.2	20.2
10 28	4 21.82	+36 34.5	2.033	2.884	12.2	19.5	10 28	4 19.60	+19 33.7	1.518	2.420	12.5	20.0
11 7	4 13.68	+36 47.4	1.969	2.883	9.2	19.3	11 7	4 12.41	+19 43.2	1.464	2.419	8.1	19.7
11 17	4 3.61	+36 42.4	1.931	2.883	6.5	19.1	11 17	4 3.17	+19 49.0	1.436	2.419	3.2	19.4
11 27	3 52.76	+36 18.2	1.921	2.883	5.3	19.1	11 27	3 53.07	+19 52.3	1.434	2.419	1.9	19.3
12 7	3 42.43	+35 37.2	1.938	2.882	6.9	19.1	12 7	3 43.51	+19 55.0	1.460	2.420	6.8	19.7
12 17	3 33.79	+34 44.7	1.984	2.881	9.7	19.3	12 17	3 35.72	+20 0.0	1.513	2.422	11.3	19.9
12 27	3 27.70	+33 47.6	2.054	2.880	12.6	19.5	12 27	3 30.61	+20 10.1	1.588	2.424	15.2	20.2
291522	2006 <i>EB</i> ₇		11 23.4 332°17	0°8/23.0	17		258558	2002 <i>CN</i> ₆₇		11 23.4 312°70	7°2/27.4	17	
10 18	4 21.19	+19 24.8	2.102	2.920	13.2	20.8	10 18	4 26.33	+40 59.4	1.979	2.732	16.1	20.8
10 28	4 16.76	+19 8.5	2.019	2.916	10.1	20.6	10 28	4 21.53	+41 28.2	1.890	2.724	13.6	20.6
11 7	4 10.23	+18 47.6	1.959	2.912	6.5	20.4	11 7	4 13.74	+41 38.2	1.820	2.716	10.9	20.5
11 17	4 2.20	+18 23.3	1.926	2.909	2.6	20.1	11 17	4 3.72	+41 24.7	1.773	2.708	8.4	20.3
11 27	3 53.57	+17 57.7	1.922	2.906	1.8	20.1	11 27	3 52.77	+40 46.0	1.753	2.701	7.2	20.2
12 7	3 45.34	+17 34.1	1.947	2.903	5.7	20.3	12 7	3 42.39	+39 44.4	1.759	2.693	8.2	20.3
12 17	3 38.43	+17 15.2	1.999	2.900	9.4	20.5	12 17	3 33.92	+38 26.6	1.792	2.686	10.7	20.4
12 27	3 33.53	+17 3.9	2.076	2.897	12.7	20.7	12 27	3 28.33	+37 1.5	1.849	2.679	13.6	20.6
476481	2008 <i>FZ</i> ₄₄		11 23.4 187°79	3°8/24.9	18		450430	2005 <i>UB</i> ₁₈₂					

EPHEMERIDES

11 23.4

11 23.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
247353	2001 <i>VW</i> ₅₉		11 23.4	18°28'	4.0°/25.1	18	227231	2005 <i>RJ</i> ₄₂		11 23.4	5°95'	3.7°/24.6	18
10 18	4 24.78	+30 30.5	1.056	1.894	21.9	19.6	10 18	4 22.90	+27 18.6	1.123	1.966	20.6	20.0
10 28	4 21.56	+30 27.1	0.996	1.898	17.5	19.3	10 28	4 19.97	+27 47.7	1.060	1.966	16.3	19.8
11 7	4 14.27	+30 2.3	0.953	1.902	12.2	19.0	11 7	4 13.24	+28 3.1	1.015	1.966	11.2	19.5
11 17	4 4.01	+29 13.9	0.931	1.907	6.6	18.7	11 17	4 3.65	+28 1.9	0.991	1.969	6.0	19.2
11 27	3 52.69	+28 4.4	0.932	1.913	4.2	18.6	11 27	3 52.89	+27 43.7	0.990	1.972	3.9	19.1
12 7	3 42.50	+26 42.5	0.956	1.920	8.6	18.9	12 7	3 42.99	+27 13.0	1.014	1.977	8.4	19.4
12 17	3 35.16	+25 19.9	1.004	1.928	14.0	19.2	12 17	3 35.66	+26 37.2	1.061	1.984	13.5	19.7
12 27	3 31.70	+24 7.4	1.072	1.937	18.7	19.5	12 27	3 32.00	+26 4.3	1.127	1.991	18.1	20.0
110161	2001 <i>SU</i> ₁₆₁		11 23.4	81°71'	0°1/23.4	18	328802	2009 <i>VJ</i> ₃₈		11 23.4	171°59'	1°7/24.2	17
10 18	4 23.78	+21 31.0	1.935	2.750	14.3	20.4	10 18	4 25.74	+24 45.1	2.465	3.256	12.3	20.8
10 28	4 18.84	+21 15.5	1.862	2.757	10.9	20.2	10 28	4 20.08	+25 17.8	2.379	3.257	9.6	20.6
11 7	4 11.60	+20 53.3	1.812	2.764	7.1	20.0	11 7	4 12.34	+25 45.1	2.316	3.258	6.4	20.4
11 17	4 2.77	+20 25.5	1.788	2.771	2.8	19.8	11 17	4 3.09	+26 5.5	2.282	3.259	3.2	20.2
11 27	3 53.37	+19 54.4	1.793	2.778	1.6	19.7	11 27	3 53.19	+26 18.7	2.278	3.260	2.0	20.1
12 7	3 44.53	+19 23.5	1.827	2.785	5.9	20.0	12 7	3 43.62	+26 25.3	2.304	3.260	5.0	20.3
12 17	3 37.21	+18 56.5	1.889	2.792	9.8	20.2	12 17	3 35.27	+26 27.6	2.360	3.260	8.2	20.5
12 27	3 32.15	+18 36.8	1.974	2.799	13.1	20.5	12 27	3 28.86	+26 28.6	2.442	3.261	11.1	20.7
521448	2015 <i>OT</i> ₂₅		11 23.4	92°78'	5°2/25.9	18	272044	2005 <i>EA</i> ₁₀₂		11 23.4	292°76'	8°0/26.6	17
10 18	4 29.66	+34 10.0	1.814	2.593	16.4	21.3	10 18	4 31.13	+42 54.5	2.426	3.147	14.3	20.1
10 28	4 23.82	+34 41.4	1.746	2.607	13.3	21.2	10 28	4 25.15	+44 19.0	2.332	3.137	12.4	20.0
11 7	4 15.03	+34 57.5	1.698	2.621	9.8	21.0	11 7	4 16.18	+45 30.1	2.260	3.128	10.3	19.8
11 17	4 4.17	+34 54.7	1.676	2.635	6.5	20.8	11 17	4 4.81	+46 21.6	2.213	3.119	8.7	19.7
11 27	3 52.59	+34 32.2	1.681	2.649	5.2	20.8	11 27	3 52.16	+46 49.1	2.192	3.109	8.0	19.6
12 7	3 41.78	+33 53.2	1.713	2.662	7.1	20.9	12 7	3 39.69	+46 51.9	2.199	3.100	8.8	19.7
12 17	3 32.98	+33 3.9	1.773	2.675	10.4	21.1	12 17	3 28.80	+46 33.2	2.233	3.091	10.5	19.8
12 27	3 27.07	+32 11.7	1.857	2.688	13.5	21.4	12 27	3 20.62	+45 59.4	2.290	3.082	12.6	19.9
207252	2005 <i>EY</i> ₂₃₁		11 23.4	342°31'	1°9/22.7	18	25660	2000 <i>AO</i> ₈₈		11 23.4	115°95'	4°4/21.8	18
10 18	4 22.80	+17 12.5	1.560	2.394	16.2	20.5	10 18	4 27.47	+10 41.7	1.665	2.487	15.9	17.8
10 28	4 18.68	+16 50.6	1.484	2.389	12.5	20.3	10 28	4 21.76	+10 7.0	1.604	2.500	12.3	17.6
11 7	4 11.82	+16 24.6	1.429	2.385	8.1	20.0	11 7	4 13.51	+9 34.4	1.565	2.513	8.3	17.4
11 17	4 2.94	+15 56.9	1.399	2.381	3.5	19.8	11 17	4 3.54	+9 7.7	1.551	2.525	5.0	17.2
11 27	3 53.25	+15 30.9	1.396	2.378	3.0	19.7	11 27	3 53.01	+8 50.7	1.566	2.537	5.1	17.2
12 7	3 44.11	+15 10.5	1.420	2.375	7.5	20.0	12 7	3 43.19	+8 46.3	1.609	2.548	8.4	17.4
12 17	3 36.71	+14 59.2	1.469	2.373	12.0	20.2	12 17	3 35.14	+8 55.8	1.677	2.559	12.1	17.7
12 27	3 31.95	+14 59.6	1.541	2.371	15.9	20.5	12 27	3 29.60	+9 19.1	1.769	2.570	15.4	17.9
139432	2001 <i>OS</i> ₄₅		11 23.4	63°33'	3°2/22.3	18	220687	2004 <i>RZ</i> ₂₆₅		11 23.4	18°10'	0°4/23.6	18
10 18	4 26.53	+12 36.2	1.708	2.530	15.6	19.4	10 18	4 22.63	+21 51.2	1.848	2.667	14.7	20.4
10 28	4 20.82	+12 20.6	1.659	2.557	11.9	19.3	10 28	4 18.17	+21 51.7	1.774	2.670	11.3	20.2
11 7	4 12.76	+12 6.5	1.633	2.584	7.8	19.1	11 7	4 11.29	+21 45.9	1.721	2.674	7.3	19.9
11 17	4 3.17	+11 56.1	1.633	2.611	4.0	18.9	11 17	4 2.70	+21 34.3	1.695	2.678	3.0	19.7
11 27	3 53.20	+11 52.0	1.661	2.637	3.8	19.0	11 27	3 53.45	+21 18.3	1.697	2.682	1.6	19.6
12 7	3 44.02	+11 56.3	1.717	2.664	7.3	19.2	12 7	3 44.72	+21 0.6	1.727	2.686	5.9	19.9
12 17	3 36.60	+12 10.0	1.800	2.691	10.9	19.5	12 17	3 37.55	+20 44.9	1.784	2.692	10.0	20.2
12 27	3 31.58	+12 33.4	1.906	2.717	14.0	19.8	12 27	3 32.70	+20 34.4	1.865	2.697	13.4	20.4
354468	2004 <i>CU</i> ₅₅		11 23.4	231°39'	7°0/19.4	18	209087	2003 <i>SR</i> ₃₀		11 23.4	9°00'	2°6/22.4	18
10 18	4 21.85	+1 56.6	2.176	2.984	13.1	20.9	10 18	4 21.34	+16 56.2	1.379	2.224	17.4	20.4
10 28	4 17.08	+0 46.9	2.099	2.976	10.7	20.8	10 28	4 17.76	+16 17.0	1.314	2.225	13.3	20.2
11 7	4 10.37	-0 16.9	2.045	2.968	8.4	20.6	11 7	4 11.28	+15 32.9	1.269	2.227	8.7	19.9
11 17	4 2.27	-1 9.2	2.018	2.959	7.1	20.5	11 17	4 2.74	+14 47.6	1.248	2.230	3.9	19.7
11 27	3 53.63	-1 45.1	2.018	2.950	7.6	20.5	11 27	3 53.44	+14 6.2	1.252	2.233	3.6	19.7
12 7	3 45.35	-2 1.3	2.046	2.941	9.6	20.6	12 7	3 44.84	+13 33.8	1.283	2.238	8.2	20.0
12 17	3 38.27	-1 56.9	2.099	2.931	12.1	20.8	12 17	3 38.18	+13 14.5	1.338	2.243	12.8	20.2
12 27	3 33.04	-1 33.0	2.174	2.921	14.6	20.9	12 27	3 34.30	+13 10.5	1.415	2.249	16.8	20.5
125247	2001 <i>UC</i> ₁₇₆		11 23.4	235°23'	2°8/24.6	18	160983	2002 <i>CX</i> ₉₆		11 23.4	162°92'	1°8/24.3	18
10 18	4 28.34	+28 5.1	1.898	2.694	15.3	20.7	10 18	4 27.65	+25 58.6	2.031	2.828	14.3	20.8
10 28	4 22.83	+28 19.2	1.804	2.683	12.1	20.5	10 28	4 21.86	+26 5.9	1.951	2.832	11.2	20.6
11 7	4 14.51	+28 22.8	1.732	2.672	8.4	20.2	11 7	4 13.62	+26 4.4	1.893	2.836	7.5	20.4
11 17	4 4.05	+28 13.7	1.685	2.660	4.5	19.9	11 17	4 3.62	+25 52.9	1.862	2.840	3.6	20.2
11 27	3 52.62	+27 51.6	1.667	2.647	3.0	19.8	11 27	3 52.95	+25 32.3	1.860	2.843	2.1	20.1
12 7	3 41.59	+27 19.3	1.678	2.635	6.4	20.0	12 7	3 42.80	+25 5.3	1.888	2.846	5.7	20.3
12 17	3 32.23	+26 41.6	1.716	2.621	10.4	20.2	12 17	3 34.23	+24 36.0	1.944	2.848	9.5	20.5
12 27	3 25.51	+26 4.6	1.779	2.607	14.1	20.4	12 27	3 28.04	+24 9.1	2.025	2.849	12.8	20.8
25378	<i>Erinlambert</i>		11 23.4	114°70'	2°3/24.5	18	332205	2006 <i>EU</i> ₁₆		11 23.4	216°88'	0°5/23.2	18
10 18	4 29.56	+28 5.8	1.616	2.421	17.1	18.9	10 18	4 21.54	+19 38.7	2.737	3.540	10.9	22.1
10 28	4 23.74	+27 56.1	1.549	2.434	13.4	18.7	10 28	4 16.58	+19 26.4	2.645	3.534	8.3	21.9
11 7	4 14.96	+27 32.8	1.503	2.446	9.0	18.4	11 7	4 9.94	+19 10.3	2.577	3.527	5.4	21.7
11 17	4 4.13	+26 55.0	1.481	2.459	4.5	18.2	11 17	4 2.11	+18 51.1	2.538	3.520	2.1	21.5
11 27	3 52.66	+26 4.7	1.488	2.471	2.6	18.1	11 27	3 53.78	+18 30.5	2.529	3.513	1.4	21.4
12 7	3 42.05	+25 7.4	1.523	2.482	6.6	18.4	12 7	3 45.75	+18 10.5	2.551	3.506	4.7	21.7
12 17	3 33.54	+24 9.7	1.585	2.493	10.9	18.7	12 17	3 38.71	+17 53.5	2.603	3.498	7.8	21.8
12 27	3 27.95	+23 18.4	1.671	2.504	14.7	18.9	12 27	3 33.27	+17 41.7	2.680	3.490	10.5	22.0
293768	2007 <i>RH</i> ₉₇		11 23.4	78°41'	8°8/19.3	16	451125	2009 <i>KB</i> ₇					

EPHEMERIDES

11 23.4

11 23.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
112405	2002 NS ₃₈	11 23.4 106°44'		1.3°/22.6 18			196792	2003 SA ₁₉₆	11 23.5 102°51'		4.2°/20.3 18		
10 18	4 24.61	+22 45.0	1.817	2.633	15.1	19.3	10 18	4 20.88	+10 37.0	2.411	3.224	11.8	19.9
10 28	4 19.54	+21 18.3	1.739	2.635	11.5	19.1	10 28	4 16.02	+9 13.5	2.345	3.236	9.1	19.7
11 7	4 12.07	+19 38.9	1.684	2.637	7.4	18.9	11 7	4 9.51	+7 49.8	2.305	3.248	6.4	19.6
11 17	4 2.97	+17 50.8	1.656	2.639	3.0	18.6	11 17	4 1.91	+6 30.5	2.294	3.260	4.4	19.5
11 27	3 53.37	+16 0.7	1.659	2.641	2.5	18.6	11 27	3 54.00	+5 20.6	2.313	3.271	4.9	19.5
12 7	3 44.44	+14 16.7	1.691	2.644	6.9	18.9	12 7	3 46.56	+4 23.9	2.361	3.282	7.2	19.7
12 17	3 37.18	+12 46.0	1.752	2.646	11.0	19.1	12 17	3 40.26	+3 43.0	2.437	3.294	9.8	19.9
12 27	3 32.29	+11 33.4	1.836	2.648	14.5	19.3	12 27	3 35.63	+3 18.8	2.537	3.304	12.2	20.0
476329	2007 YS ₆₅	11 23.4 170°57'		4.7°/25.6 18			386027	2007 ED ₂₃	11 23.5 339°19'		5.7°/21.5 18		
10 18	4 31.11	+33 10.5	1.718	2.502	17.0	21.5	10 18	4 18.97	+11 46.2	1.123	1.986	19.3	20.2
10 28	4 25.19	+33 28.1	1.639	2.505	13.8	21.3	10 28	4 16.69	+10 54.1	1.052	1.971	15.1	19.9
11 7	4 16.10	+33 29.7	1.580	2.508	10.0	21.0	11 7	4 11.05	+10 1.3	0.999	1.957	10.4	19.6
11 17	4 4.69	+33 11.9	1.545	2.510	6.3	20.8	11 17	4 2.83	+9 14.2	0.967	1.944	6.4	19.4
11 27	3 52.39	+32 34.1	1.538	2.511	4.8	20.7	11 27	3 53.44	+8 40.5	0.959	1.933	6.7	19.3
12 7	3 40.81	+31 40.2	1.559	2.512	7.3	20.9	12 7	3 44.62	+8 26.2	0.974	1.923	11.1	19.6
12 17	3 31.33	+30 37.2	1.608	2.513	11.0	21.1	12 17	3 37.92	+8 34.5	1.011	1.915	16.1	19.8
12 27	3 24.92	+29 33.8	1.680	2.512	14.6	21.3	12 27	3 34.46	+9 5.2	1.066	1.908	20.5	20.1
265452	2004 XV ₁₀₉	11 23.4 193°88'		8.0°/19.6 18			373284	2012 HO ₄₈	11 23.5 160°10'		4.0°/21.2 17		
10 18	4 22.89	- 8 35.8	2.730	3.493	11.9	20.2	10 18	4 20.65	+ 8 8.9	2.528	3.339	11.4	21.8
10 28	4 17.42	- 9 8.2	2.661	3.492	10.2	20.1	10 28	4 15.89	+7 36.1	2.453	3.341	8.9	21.7
11 7	4 10.38	- 9 28.1	2.615	3.490	8.8	20.0	11 7	4 9.48	+7 6.0	2.402	3.343	6.3	21.5
11 17	4 2.26	- 9 31.3	2.594	3.489	8.0	19.9	11 17	4 1.94	+6 41.6	2.379	3.345	4.3	21.4
11 27	3 53.75	- 9 15.2	2.602	3.487	8.3	20.0	11 27	3 53.98	+6 25.7	2.385	3.346	4.5	21.4
12 7	3 45.60	- 8 39.2	2.636	3.484	9.5	20.0	12 7	3 46.37	+6 20.3	2.420	3.348	6.7	21.5
12 17	3 38.46	- 7 44.5	2.696	3.482	11.1	20.2	12 17	3 39.81	+6 26.4	2.483	3.349	9.3	21.7
12 27	3 32.86	- 6 33.8	2.778	3.479	12.7	20.3	12 27	3 34.85	+6 44.0	2.571	3.351	11.7	21.9
449825	2014 PA ₃₆	11 23.4 294°50'		3.2°/21.9 18			473451	2015 XU ₁₂	11 23.5 36°29'		9.8°/20.6 18		
10 18	4 22.03	+12 19.1	2.052	2.872	13.4	21.4	10 18	4 23.06	- 3 43.3	1.617	2.429	16.8	20.1
10 28	4 17.41	+11 52.9	1.971	2.868	10.3	21.2	10 28	4 18.31	- 4 32.4	1.575	2.446	14.0	19.9
11 7	4 10.68	+11 27.0	1.914	2.864	6.9	21.0	11 7	4 11.23	- 5 5.3	1.553	2.464	11.4	19.8
11 17	4 2.46	+11 4.1	1.883	2.860	3.8	20.8	11 17	4 2.64	- 5 16.1	1.554	2.483	9.9	19.8
11 27	3 53.63	+10 47.4	1.881	2.856	3.9	20.8	11 27	3 53.65	- 5 0.9	1.580	2.502	10.1	19.8
12 7	3 45.20	+10 39.4	1.908	2.852	7.0	21.0	12 7	3 45.39	- 4 19.7	1.631	2.522	11.9	20.0
12 17	3 38.07	+10 41.9	1.962	2.848	10.4	21.2	12 17	3 38.82	- 3 15.4	1.706	2.542	14.3	20.2
12 27	3 32.96	+10 55.8	2.040	2.844	13.5	21.4	12 27	3 34.57	- 1 52.8	1.801	2.563	16.6	20.4
195843	2002 QA ₇₁	11 23.4 55°43'		4.2°/25.9 17			69773	1998 QT ₃₄	11 23.5 2°96'		1.2°/23.8 18		
10 18	4 24.20	+34 2.6	2.288	3.062	13.6	20.5	10 18	4 21.56	+21 59.1	1.220	2.067	19.0	17.9
10 28	4 19.17	+34 21.4	2.207	3.066	11.0	20.3	10 28	4 18.56	+22 24.9	1.154	2.065	14.7	17.6
11 7	4 11.85	+34 27.4	2.149	3.071	8.1	20.2	11 7	4 12.18	+22 44.1	1.107	2.065	9.7	17.3
11 17	4 2.93	+34 18.5	2.116	3.076	5.4	20.0	11 17	4 3.25	+22 55.6	1.083	2.066	4.2	17.0
11 27	3 53.38	+33 54.5	2.112	3.080	4.3	19.9	11 27	3 53.25	+22 59.6	1.084	2.069	2.2	16.9
12 7	3 44.33	+33 17.9	2.137	3.085	5.9	20.1	12 7	3 43.96	+22 58.8	1.109	2.073	7.7	17.3
12 17	3 36.75	+32 32.9	2.189	3.090	8.7	20.2	12 17	3 36.90	+22 57.3	1.158	2.079	12.9	17.6
12 27	3 31.37	+31 45.3	2.267	3.095	11.5	20.4	12 27	3 33.11	+22 59.6	1.228	2.086	17.3	17.9
113624	2002 TD ₆₄	11 23.4 96°10'		2.7°/24.7 18			430863	2005 NJ ₁₂₃	11 23.5 122°76'		0.5°/23.2 18		
10 18	4 26.90	+28 10.6	1.916	2.713	15.1	20.1	10 18	4 29.01	+21 19.3	1.823	2.631	15.3	21.6
10 28	4 21.40	+28 23.4	1.845	2.724	11.8	19.9	10 28	4 22.82	+20 51.2	1.758	2.649	11.7	21.5
11 7	4 13.36	+28 25.4	1.795	2.735	8.1	19.7	11 7	4 14.14	+20 15.6	1.715	2.666	7.5	21.2
11 17	4 3.53	+28 15.3	1.772	2.746	4.3	19.5	11 17	4 3.81	+19 34.1	1.700	2.682	3.0	21.0
11 27	3 53.07	+27 53.5	1.777	2.757	2.9	19.4	11 27	3 53.00	+18 49.8	1.714	2.698	1.8	20.9
12 7	3 43.24	+27 23.1	1.811	2.768	6.0	19.7	12 7	3 42.95	+18 7.2	1.757	2.713	6.3	21.3
12 17	3 35.13	+26 48.7	1.872	2.779	9.6	19.9	12 17	3 34.67	+17 30.6	1.828	2.727	10.3	21.5
12 27	3 29.51	+26 15.6	1.958	2.789	12.9	20.1	12 27	3 28.88	+17 3.7	1.924	2.740	13.7	21.8
319751	2006 UG ₁₇₄	11 23.5 341°32'		2.3°/24.3 17			60462	2000 DM ₄	11 23.5 59°39'		5.7°/21.9 18		
10 18	4 16.24	+26 13.7	1.230	2.078	18.8	20.1	10 18	4 26.87	+ 8 22.4	1.362	2.197	18.1	18.4
10 28	4 14.77	+26 15.6	1.144	2.054	14.9	19.8	10 28	4 21.78	+ 7 52.5	1.309	2.210	14.1	18.2
11 7	4 9.95	+26 3.4	1.076	2.032	10.2	19.5	11 7	4 13.76	+ 7 28.4	1.275	2.223	9.8	18.0
11 17	4 2.43	+25 36.1	1.030	2.011	4.9	19.1	11 17	4 3.73	+ 7 14.7	1.266	2.237	6.3	17.8
11 27	3 53.59	+24 55.0	1.008	1.992	2.8	18.9	11 27	3 53.06	+ 7 15.4	1.282	2.251	6.3	17.9
12 7	3 45.19	+24 5.4	1.010	1.975	7.9	19.2	12 7	3 43.25	+ 7 32.5	1.325	2.265	9.8	18.1
12 17	3 38.87	+23 14.9	1.034	1.960	13.4	19.4	12 17	3 35.50	+ 8 5.8	1.391	2.279	13.7	18.4
12 27	3 35.85	+22 31.4	1.079	1.948	18.3	19.7	12 27	3 30.62	+ 8 53.8	1.479	2.293	17.3	18.7
421915	2014 QN ₂₂₉	11 23.5 340°85'		5.1°/20.8 18			446155	2013 ES ₁₁₀	11 23.5 272°04'		3.5°/21.5 18		
10 18	4 19.74	+ 8 46.4	1.907	2.735	13.9	20.3	10 18	4 22.18	+14 3.4	1.906	2.731	14.1	21.2
10 28	4 15.77	+ 7 51.9	1.832	2.730	10.9	20.1	10 28	4 17.74	+13 5.9	1.820	2.720	10.9	21.0
11 7	4 9.67	+ 6 59.4	1.780	2.725	7.7	19.9	11 7	4 11.02	+12 5.1	1.757	2.708	7.3	20.7
11 17	4 2.06	+ 6 13.6	1.753	2.720	5.4	19.7	11 17	4 2.66	+11 4.7	1.721	2.697	4.1	20.5
11 27	3 53.87	+ 5 39.1	1.754	2.716	5.8	19.8	11 27	3 53.61	+10 9.9	1.713	2.686	4.3	20.5
12 7	3 46.10	+ 5 19.7	1.783	2.713	8.5	19.9	12 7	3 44.97	+ 9 25.5	1.733	2.675	7.7	20.7
12 17	3 39.67	+ 5 17.1	1.837	2.709	11.7	20.1	12 17	3 37.72	+ 8 55.2	1.780	2.663	11.4	20.9
12 27	3 35.28	+ 5 31.4	1.913	2.706	14.7	20.3	12 27	3 32.63	+ 8 40.9	1.850	2.652	14.8	21.1
72739	2001 FU ₁₀₅	11 23.5 134°25'		0.2°/23.4 18			458024	2009 WV ₁₆₀	11 23.5 303°93'		0.8°/23.7 17		
10 18	4 22.82	+20 30.6	2.518	3.321	11.7								

EPHEMERIDES

11 23.5

11 23.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
52976	1998 UX ₂		11 23.5 315°19	1.7/22.7	18		45236	1999 XP ₂₂₉		11 23.5 45°42	5°4/25.2	18	
10 18	4 23.60	+20 11.8	1.440	2.275	17.3	19.0	10 18	4 29.77	+30 45.9	1.274	2.090	20.2	18.3
10 28	4 19.57	+19 20.5	1.363	2.269	13.3	18.7	10 28	4 24.97	+31 35.0	1.214	2.100	16.2	18.1
11 7	4 12.55	+18 19.0	1.306	2.263	8.6	18.4	11 7	4 16.36	+32 8.9	1.173	2.111	11.6	17.9
11 17	4 3.34	+17 10.7	1.273	2.256	3.6	18.1	11 17	4 4.94	+32 22.4	1.154	2.123	7.2	17.7
11 27	3 53.26	+16 1.2	1.268	2.251	2.9	18.1	11 27	3 52.48	+32 13.7	1.159	2.135	5.5	17.6
12 7	3 43.81	+14 57.5	1.289	2.245	8.0	18.4	12 7	3 40.98	+31 46.0	1.191	2.147	8.5	17.8
12 17	3 36.29	+14 6.1	1.335	2.240	12.9	18.6	12 17	3 32.13	+31 7.1	1.247	2.160	12.8	18.1
12 27	3 31.64	+13 31.6	1.403	2.235	17.0	18.9	12 27	3 26.97	+30 26.1	1.324	2.173	16.8	18.4
17926	Jameswu		11 23.5 171°91	2°1/24.2	18		444601	2006 UD ₂₁₂		11 23.5 28°78	1°8/24.3	17	
10 18	4 30.67	+25 43.9	1.605	2.412	17.1	18.5	10 18	4 23.21	+26 21.4	1.513	2.336	17.2	20.7
10 28	4 24.87	+25 58.1	1.527	2.415	13.4	18.3	10 28	4 19.09	+26 14.1	1.450	2.347	13.3	20.5
11 7	4 15.94	+26 2.2	1.471	2.417	9.0	18.1	11 7	4 12.10	+25 54.6	1.408	2.358	8.9	20.3
11 17	4 4.70	+25 54.5	1.440	2.418	4.3	17.8	11 17	4 3.12	+25 22.9	1.391	2.370	4.2	20.1
11 27	3 52.51	+25 35.2	1.436	2.419	2.6	17.7	11 27	3 53.49	+24 41.3	1.399	2.383	2.3	20.0
12 7	3 40.99	+25 7.6	1.461	2.420	6.9	18.0	12 7	3 44.64	+23 54.9	1.435	2.397	6.6	20.3
12 17	3 31.50	+24 37.1	1.513	2.420	11.4	18.2	12 17	3 37.77	+23 9.6	1.497	2.411	11.0	20.6
12 27	3 25.03	+24 9.7	1.587	2.420	15.4	18.5	12 27	3 33.68	+22 31.2	1.582	2.426	14.8	20.8
48758	1997 GX ₃₅		11 23.5 74°30	3°1/22.2	18		484460	2008 CW ₁₈		11 23.5 331°64	1°1/23.1	17	
10 18	4 25.92	+15 38.0	1.451	2.285	17.2	18.5	10 18	4 21.25	+18 30.9	1.492	2.331	16.6	21.0
10 28	4 20.98	+14 53.0	1.392	2.297	13.2	18.3	10 28	4 17.87	+18 25.7	1.406	2.314	12.9	20.7
11 7	4 13.21	+14 4.7	1.354	2.309	8.6	18.1	11 7	4 11.59	+18 16.1	1.341	2.298	8.4	20.4
11 17	4 3.52	+13 17.2	1.341	2.321	4.2	17.8	11 17	4 3.05	+18 3.5	1.300	2.283	3.4	20.1
11 27	3 53.22	+12 35.4	1.355	2.333	4.1	17.9	11 27	3 53.45	+17 50.1	1.285	2.269	2.4	20.0
12 7	3 43.74	+12 4.2	1.396	2.346	8.3	18.1	12 7	3 44.25	+17 39.2	1.296	2.255	7.5	20.3
12 17	3 36.24	+11 47.0	1.461	2.358	12.6	18.4	12 17	3 36.78	+17 34.6	1.332	2.243	12.3	20.5
12 27	3 31.51	+11 45.3	1.549	2.370	16.3	18.7	12 27	3 32.09	+17 39.2	1.390	2.232	16.6	20.7
517370	2014 KP ₄₃		11 23.5 125°54	5°1/21.5	18		116571	2004 BW ₈₇		11 23.5 151°25	4°0/22.0	18	
10 18	4 24.68	+ 6 38.9	1.968	2.782	14.1	21.7	10 18	4 27.27	+11 28.4	1.696	2.517	15.7	19.7
10 28	4 19.38	+ 6 12.5	1.898	2.787	11.1	21.5	10 28	4 21.75	+10 59.8	1.626	2.522	12.1	19.5
11 7	4 11.93	+ 5 51.3	1.852	2.792	7.9	21.3	11 7	4 13.65	+10 32.5	1.578	2.527	8.2	19.3
11 17	4 2.98	+ 5 38.9	1.832	2.797	5.4	21.2	11 17	4 3.73	+10 10.0	1.556	2.532	4.7	19.1
11 27	3 53.49	+ 5 38.4	1.841	2.802	5.6	21.2	11 27	3 53.15	+ 9 55.7	1.562	2.536	4.7	19.1
12 7	3 44.49	+ 5 51.6	1.877	2.807	8.2	21.4	12 7	3 43.16	+ 9 52.6	1.596	2.539	8.1	19.3
12 17	3 36.91	+ 6 18.7	1.941	2.811	11.3	21.6	12 17	3 34.88	+10 2.2	1.657	2.542	12.0	19.5
12 27	3 31.43	+ 6 58.7	2.027	2.815	14.1	21.8	12 27	3 29.10	+10 25.0	1.740	2.545	15.4	19.8
344167	2000 YT ₀₅		11 23.5 9°35	8°0/21.9	18		120949	1998 UU ₃		11 23.5 104°01	1°0/23.9	18	
10 18	4 26.21	+ 1 23.8	1.397	2.224	18.2	19.0	10 18	4 30.92	+23 53.7	1.685	2.491	16.4	20.5
10 28	4 21.38	+ 1 11.4	1.335	2.225	14.7	18.8	10 28	4 24.54	+23 54.0	1.624	2.513	12.6	20.3
11 7	4 13.62	+ 1 13.1	1.291	2.226	11.1	18.6	11 7	4 15.39	+23 45.6	1.586	2.534	8.3	20.1
11 17	4 3.75	+ 1 34.1	1.272	2.229	8.4	18.4	11 17	4 4.38	+23 27.9	1.573	2.554	3.6	19.9
11 27	3 53.07	+ 2 17.4	1.277	2.232	8.4	18.5	11 27	3 52.83	+23 2.7	1.589	2.574	1.8	19.8
12 7	3 43.06	+ 3 22.6	1.308	2.236	11.1	18.6	12 7	3 42.13	+22 33.6	1.634	2.593	6.3	20.1
12 17	3 34.98	+ 4 46.7	1.364	2.240	14.7	18.8	12 17	3 33.42	+22 5.5	1.707	2.612	10.5	20.4
12 27	3 29.74	+ 6 24.8	1.440	2.246	18.0	19.1	12 27	3 27.48	+21 42.8	1.803	2.630	14.1	20.7
131412	2001 MP ₁₆		11 23.5 52°30	1°3/22.9	18		241780	2001 OK		11 23.5 170°44	3°2/25.6	18	
10 18	4 22.26	+16 20.5	2.321	3.133	12.3	19.5	10 18	4 27.12	+32 50.5	2.569	3.333	12.5	21.5
10 28	4 17.36	+16 20.4	2.243	3.137	9.4	19.4	10 28	4 21.07	+32 48.1	2.481	3.338	10.0	21.3
11 7	4 10.56	+16 19.0	2.190	3.142	6.1	19.2	11 7	4 12.95	+32 33.6	2.417	3.342	7.2	21.2
11 17	4 2.43	+16 17.2	2.164	3.146	2.6	18.9	11 17	4 3.40	+32 5.6	2.380	3.345	4.4	21.0
11 27	3 53.79	+16 16.5	2.168	3.150	2.0	18.9	11 27	3 53.33	+31 24.7	2.373	3.347	3.3	20.9
12 7	3 45.54	+16 18.5	2.201	3.155	5.4	19.1	12 7	3 43.75	+30 34.0	2.397	3.349	5.2	21.1
12 17	3 38.48	+16 24.8	2.263	3.159	8.7	19.4	12 17	3 35.54	+29 37.7	2.451	3.350	8.0	21.2
12 27	3 33.25	+16 36.8	2.350	3.164	11.6	19.6	12 27	3 29.36	+28 41.1	2.531	3.351	10.7	21.4
115490	2003 UQ ₂₁		11 23.5 155°89	3°6/25.1	18		441911	2010 FU ₁₉		11 23.5 180°52	5°8/20.6	18	
10 18	4 30.52	+30 35.9	1.644	2.439	17.2	20.1	10 18	4 23.81	+ 6 51.3	1.912	2.730	14.3	21.6
10 28	4 24.73	+30 40.6	1.567	2.444	13.7	19.9	10 28	4 18.81	+ 5 50.8	1.841	2.731	11.3	21.4
11 7	4 15.80	+30 30.2	1.512	2.449	9.6	19.7	11 7	4 11.62	+ 4 53.9	1.792	2.731	8.2	21.2
11 17	4 4.63	+30 2.4	1.481	2.454	5.4	19.4	11 17	4 2.90	+ 4 5.4	1.770	2.731	6.1	21.1
11 27	3 52.62	+29 17.8	1.478	2.457	3.7	19.4	11 27	3 53.60	+ 3 30.6	1.776	2.731	6.5	21.1
12 7	3 41.38	+28 21.1	1.504	2.461	6.9	19.6	12 7	3 44.80	+ 3 12.8	1.810	2.731	9.0	21.3
12 17	3 32.26	+27 19.5	1.556	2.464	11.1	19.8	12 17	3 37.42	+ 3 13.4	1.869	2.730	12.1	21.5
12 27	3 26.18	+26 20.8	1.631	2.466	14.9	20.1	12 27	3 32.18	+ 3 31.8	1.951	2.729	15.0	21.7
474758	2005 QU ₄₈		11 23.5 70°17	1°9/22.8	18		279410	McCallon		11 23.5 188°00	3°2/22.5	18	
10 18	4 28.84	+17 0.3	1.406	2.236	17.9	21.4	10 18	4 29.19	+11 13.4	1.864	2.675	14.9	21.0
10 28	4 23.19	+16 44.0	1.356	2.258	13.6	21.2	10 28	4 23.13	+11 16.0	1.784	2.675	11.5	20.8
11 7	4 14.60	+16 24.6	1.326	2.281	8.7	21.0	11 7	4 14.54	+11 21.8	1.727	2.674	7.7	20.6
11 17	4 4.06	+16 4.0	1.321	2.304	3.7	20.8	11 17	4 4.12	+11 32.3	1.696	2.673	4.1	20.4
11 27	3 53.00	+15 45.6	1.344	2.326	3.0	20.8	11 27	3 52.93	+11 49.1	1.695	2.671	3.8	20.3
12 7	3 42.91	+15 32.8	1.393	2.349	7.6	21.1	12 7	3 42.19	+12 13.4	1.723	2.669	7.3	20.5
12 17	3 34.99	+15 28.6	1.468	2.371	12.1	21.4	12 17	3 33.02	+12 45.9	1.779	2.667	11.2	20.8
12 27	3 29.98	+15 34.9	1.566	2.393	15.8	21.7	12 27	3 26.25	+13 26.5	1.859	2.664	14.6	21.0
55760	1992 BL ₁		11 23.5 353°83	30°0/23.4	18		443688	2015 KN ₃₈		11 23.5 84°95	3°6/22.1	18	
10 18	4 7.25	-29 34.3											

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
68754	2002 <i>EM</i> ₇₅		11 23.5 159°01	3°4/25.4	18		383532	2007 <i>DY</i> ₄₈		11 23.5 232°02	0°6/23.2	18	
10 18	4 28.68	+32 6.3	2.223	2.997	14.0	20.4	10 18	4 26.42	+20 24.3	1.792	2.607	15.2	21.8
10 28	4 22.54	+32 6.5	2.141	3.003	11.2	20.2	10 28	4 21.29	+20 5.8	1.704	2.599	11.8	21.5
11 7	4 14.02	+31 53.6	2.081	3.010	7.9	20.0	11 7	4 13.51	+19 40.7	1.638	2.591	7.6	21.3
11 17	4 3.86	+31 26.0	2.048	3.015	4.8	19.9	11 17	4 3.75	+19 9.9	1.599	2.582	3.1	21.0
11 27	3 53.10	+30 44.3	2.045	3.020	3.4	19.8	11 27	3 53.16	+18 36.0	1.588	2.572	1.9	20.9
12 7	3 42.93	+29 52.1	2.071	3.025	5.7	19.9	12 7	3 43.01	+18 2.9	1.606	2.562	6.6	21.2
12 17	3 34.36	+28 54.4	2.127	3.028	8.9	20.1	12 17	3 34.48	+17 34.9	1.651	2.552	11.0	21.4
12 27	3 28.11	+27 57.3	2.208	3.031	11.9	20.4	12 27	3 28.47	+17 15.9	1.719	2.542	14.8	21.6
155848	2001 <i>AO</i> ₄₄		11 23.5 179°01	5°4/27.2	18		50070	2000 <i>AG</i> ₈₀		11 23.5 201°05	4°4/21.8	18	
10 18	4 27.13	+40 41.2	2.879	3.606	12.1	20.0	10 18	4 26.21	+11 7.6	1.649	2.474	15.9	19.2
10 28	4 21.16	+41 4.9	2.789	3.607	10.2	19.9	10 28	4 21.09	+10 29.3	1.574	2.472	12.4	19.0
11 7	4 13.07	+41 14.8	2.721	3.608	8.1	19.7	11 7	4 13.33	+9 52.0	1.521	2.470	8.4	18.8
11 17	4 3.48	+41 8.1	2.679	3.608	6.2	19.6	11 17	4 3.66	+9 19.6	1.494	2.468	5.0	18.6
11 27	3 53.30	+40 43.9	2.665	3.608	5.4	19.6	11 27	3 53.23	+8 56.6	1.494	2.466	5.2	18.6
12 7	3 43.55	+40 3.8	2.681	3.608	6.2	19.6	12 7	3 43.35	+8 46.6	1.522	2.463	8.6	18.8
12 17	3 35.14	+39 11.8	2.726	3.607	8.0	19.7	12 17	3 35.16	+8 51.5	1.575	2.460	12.6	19.0
12 27	3 28.76	+38 13.1	2.796	3.606	10.1	19.9	12 27	3 29.51	+9 11.7	1.651	2.456	16.1	19.2
8240	<i>Matisse</i>		11 23.5 253°55	1°8/22.7	18		423253	2004 <i>TW</i> ₁₉₅		11 23.5 93°42	2°6/24.4	16	
10 18	4 25.70	+16 43.7	1.830	2.649	14.8	18.6	10 18	4 32.60	+26 14.0	1.354	2.169	19.2	21.9
10 28	4 20.70	+16 26.5	1.739	2.636	11.4	18.3	10 28	4 26.61	+26 32.5	1.296	2.187	15.0	21.7
11 7	4 13.11	+16 6.0	1.670	2.623	7.5	18.0	11 7	4 17.12	+26 39.2	1.257	2.204	10.1	21.5
11 17	4 3.60	+15 44.0	1.628	2.609	3.3	17.8	11 17	4 5.18	+26 31.8	1.242	2.221	4.9	21.2
11 27	3 53.21	+15 23.1	1.614	2.596	2.7	17.7	11 27	3 52.46	+26 10.8	1.254	2.237	3.0	21.1
12 7	3 43.18	+15 6.6	1.628	2.581	7.0	17.9	12 7	3 40.77	+25 40.6	1.294	2.253	7.4	21.5
12 17	3 34.65	+14 57.6	1.670	2.567	11.2	18.2	12 17	3 31.58	+25 7.5	1.358	2.269	12.2	21.8
12 27	3 28.54	+14 58.6	1.735	2.552	14.9	18.4	12 27	3 25.81	+24 38.5	1.445	2.285	16.2	22.1
45940	2001 <i>AZ</i> ₁₀		11 23.5 192°89	5°1/21.5	18		138945	2001 <i>BZ</i> ₃₇		11 23.5 213°77	0°0/23.5	17	
10 18	4 26.92	+9 34.6	1.649	2.472	16.0	19.3	10 18	4 27.98	+23 40.4	1.847	2.653	15.2	20.7
10 28	4 21.61	+8 51.1	1.575	2.471	12.5	19.1	10 28	4 22.39	+23 0.2	1.757	2.646	11.8	20.5
11 7	4 13.64	+8 9.8	1.523	2.469	8.7	18.9	11 7	4 14.15	+22 8.7	1.689	2.639	7.7	20.2
11 17	4 3.77	+7 35.3	1.497	2.468	5.6	18.7	11 17	4 4.00	+21 7.2	1.648	2.630	3.1	19.9
11 27	3 53.15	+7 12.2	1.498	2.466	5.8	18.7	11 27	3 53.07	+19 59.2	1.637	2.621	1.7	19.8
12 7	3 43.09	+7 4.0	1.527	2.463	9.1	18.9	12 7	3 42.68	+18 50.4	1.655	2.612	6.5	20.1
12 17	3 34.73	+7 12.5	1.581	2.460	12.9	19.1	12 17	3 33.97	+17 47.0	1.701	2.601	10.8	20.3
12 27	3 28.92	+7 37.4	1.658	2.457	16.3	19.3	12 27	3 27.78	+16 54.5	1.771	2.590	14.6	20.5
360299	2001 <i>QU</i> ₂₀₈		11 23.5 36°53	7°7/27.3	17		17102	<i>Begzhigitova</i>		11 23.5 19°99	4°4/22.1	18	
10 18	4 28.26	+39 51.7	1.716	2.482	17.8	20.4	10 18	4 23.15	+14 6.0	1.050	1.910	20.5	17.3
10 28	4 23.32	+40 39.3	1.647	2.490	14.9	20.2	10 28	4 19.84	+13 23.6	0.997	1.915	15.8	17.1
11 7	4 15.07	+41 7.5	1.596	2.498	11.8	20.0	11 7	4 12.99	+12 39.6	0.961	1.921	10.5	16.8
11 17	4 4.40	+41 10.8	1.569	2.507	9.0	19.9	11 17	4 3.60	+11 59.6	0.948	1.928	5.5	16.6
11 27	3 52.81	+40 46.9	1.567	2.516	7.7	19.8	11 27	3 53.33	+11 29.8	0.958	1.936	5.4	16.6
12 7	3 42.01	+39 58.9	1.590	2.526	8.9	19.9	12 7	3 44.03	+11 15.4	0.991	1.945	10.2	16.9
12 17	3 33.44	+38 53.8	1.640	2.536	11.5	20.1	12 17	3 37.16	+11 19.1	1.047	1.955	15.2	17.2
12 27	3 28.08	+37 41.2	1.713	2.546	14.4	20.3	12 27	3 33.69	+11 41.2	1.122	1.966	19.5	17.5
392673	2011 <i>UN</i> ₃₂₄		11 23.5 129°07	1°3/24.0	18		327992	2007 <i>GK</i> ₄₀		11 23.5 126°22	2°7/24.5	17	
10 18	4 27.12	+24 5.6	2.050	2.850	14.1	21.4	10 18	4 26.94	+27 6.9	2.331	3.118	13.0	20.5
10 28	4 21.40	+24 16.2	1.974	2.859	10.9	21.2	10 28	4 21.22	+27 48.4	2.247	3.121	10.2	20.3
11 7	4 13.33	+24 19.7	1.922	2.868	7.2	21.0	11 7	4 13.24	+28 23.1	2.187	3.124	7.1	20.1
11 17	4 3.60	+24 15.4	1.897	2.877	3.2	20.8	11 17	4 3.62	+28 48.7	2.154	3.127	3.9	19.9
11 27	3 53.26	+24 3.9	1.901	2.885	1.8	20.7	11 27	3 53.28	+29 4.2	2.151	3.130	2.8	19.8
12 7	3 43.45	+23 47.7	1.935	2.893	5.5	21.0	12 7	3 43.29	+29 10.4	2.179	3.133	5.4	20.0
12 17	3 35.17	+23 30.1	1.997	2.901	9.3	21.2	12 17	3 34.64	+29 9.8	2.235	3.135	8.6	20.2
12 27	3 29.19	+23 15.0	2.084	2.908	12.5	21.5	12 27	3 28.11	+29 6.0	2.316	3.138	11.5	20.4
446664	2015 <i>NY</i> ₁₆		11 23.5 62°67	9°0/20.0	18		420115	2011 <i>FC</i> ₁₈		11 23.5 303°13	3°6/21.3	17	
10 18	4 23.65	-1 44.7	1.749	2.559	15.8	20.5	10 18	4 19.79	+13 7.8	2.112	2.936	12.9	21.6
10 28	4 18.79	-2 44.3	1.691	2.564	13.1	20.4	10 28	4 15.83	+12 12.6	2.015	2.913	10.0	21.4
11 7	4 11.63	-3 31.6	1.655	2.570	10.6	20.2	11 7	4 9.81	+11 14.6	1.941	2.891	6.8	21.2
11 17	4 2.91	-4 0.3	1.643	2.576	9.1	20.1	11 17	4 2.26	+10 17.3	1.894	2.869	4.0	20.9
11 27	3 53.65	-4 5.4	1.657	2.583	9.5	20.2	11 27	3 54.01	+9 25.5	1.875	2.847	4.3	20.9
12 7	3 44.98	-3 45.4	1.697	2.589	11.4	20.3	12 7	3 46.04	+8 43.5	1.886	2.825	7.4	21.1
12 17	3 37.86	-3 1.6	1.760	2.595	14.0	20.5	12 17	3 39.23	+8 14.8	1.922	2.803	10.9	21.2
12 27	3 32.99	-1 57.5	1.844	2.602	16.5	20.7	12 27	3 34.34	+8 1.3	1.983	2.782	14.0	21.4
346904	2009 <i>UR</i> ₈₈		11 23.5 18°25	1°7/24.3	18		448075	2008 <i>GC</i> ₁₂₁		11 23.5 170°48	1°4/22.8	18	
10 18	4 24.33	+27 8.0	1.298	2.129	19.1	20.1	10 18	4 23.02	+17 30.1	2.098	2.913	13.3	21.7
10 28	4 20.48	+26 42.0	1.231	2.132	14.9	19.8	10 28	4 18.19	+17 12.0	2.018	2.914	10.2	21.5
11 7	4 13.28	+25 59.7	1.183	2.135	10.0	19.6	11 7	4 11.24	+16 50.7	1.962	2.914	6.6	21.3
11 17	4 3.68	+25 1.5	1.158	2.139	4.6	19.3	11 17	4 2.80	+16 27.7	1.932	2.914	2.8	21.0
11 27	3 53.23	+23 51.3	1.159	2.144	2.3	19.1	11 27	3 53.78	+16 5.3	1.932	2.915	2.2	21.0
12 7	3 43.67	+22 36.8	1.186	2.149	7.5	19.5	12 7	3 45.19	+15 46.5	1.961	2.915	5.9	21.3
12 17	3 36.39	+21 26.5	1.238	2.155	12.5	19.8	12 17	3 37.93	+15 33.9	2.018	2.915	9.6	21.5
12 27	3 32.34	+20 28.2	1.311	2.161	16.9	20.1	12 27	3 32.71	+15 29.6	2.099	2.915	12.8	21.7
434340	2004 <i>PE</i> ₂₃		11 23.5 55°61	2°5/22.6	18		35714	1999 <i>FB</i> ₃₁		11 23.5 142°07	3°1/		

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
184402	2005 <i>MA</i> ₁₃		11 23.5 143°88	3:7/22.1	18		220151	2002 <i>TY</i> ₁₉₇		11 23.5 66°17	2:1/22.6	18	
10 18	4 27.70	+12 4.0	1.698	2.518	15.7	20.7	10 18	4 26.89	+19 4.2	1.346	2.181	18.3	19.3
10 28	4 22.08	+11 36.4	1.629	2.525	12.1	20.5	10 28	4 21.88	+18 12.6	1.293	2.199	13.9	19.1
11 7	4 13.88	+11 9.6	1.582	2.532	8.1	20.3	11 7	4 13.87	+17 13.7	1.261	2.217	8.9	18.8
11 17	4 3.87	+10 46.9	1.561	2.538	4.5	20.1	11 17	4 3.86	+16 11.5	1.253	2.235	3.8	18.6
11 27	3 53.22	+10 31.8	1.569	2.544	4.4	20.1	11 27	3 53.33	+15 11.9	1.272	2.254	3.2	18.6
12 7	3 43.18	+10 27.0	1.605	2.549	8.0	20.3	12 7	3 43.79	+14 21.2	1.317	2.272	8.0	18.9
12 17	3 34.87	+10 34.5	1.667	2.554	11.9	20.6	12 17	3 36.43	+13 44.2	1.388	2.291	12.6	19.3
12 27	3 29.06	+10 54.6	1.752	2.558	15.3	20.8	12 27	3 32.02	+13 23.7	1.481	2.309	16.5	19.6
317337	2002 <i>JB</i> ₁₀₃		11 23.5 204°88	0:4/23.2	18		273644	2007 <i>DR</i> ₆₁		11 23.5 125°65	1:5/24.1	18	
10 18	4 21.90	+20 50.6	2.913	3.711	10.4	21.6	10 18	4 28.31	+25 7.4	1.717	2.525	16.1	20.8
10 28	4 16.79	+20 24.5	2.819	3.705	8.0	21.5	10 28	4 22.77	+25 9.3	1.644	2.533	12.5	20.5
11 7	4 10.10	+19 53.3	2.750	3.699	5.1	21.3	11 7	4 14.45	+25 1.4	1.594	2.541	8.3	20.3
11 17	4 2.30	+19 18.1	2.711	3.693	2.1	21.0	11 17	4 4.15	+24 43.2	1.568	2.548	3.8	20.1
11 27	3 54.06	+18 40.9	2.702	3.686	1.3	21.0	11 27	3 53.13	+24 15.9	1.571	2.555	2.1	20.0
12 7	3 46.12	+18 4.2	2.724	3.678	4.4	21.2	12 7	3 42.78	+23 43.2	1.603	2.562	6.3	20.3
12 17	3 39.15	+17 30.7	2.776	3.670	7.4	21.4	12 17	3 34.29	+23 10.1	1.661	2.569	10.6	20.5
12 27	3 33.69	+17 3.2	2.855	3.662	10.0	21.5	12 27	3 28.51	+22 41.6	1.744	2.575	14.2	20.8
147419	2003 <i>FK</i> ₁₂₁		11 23.5 344°88	0:3/23.3	18		270118	2001 <i>RD</i> ₇₃		11 23.5 39°78	5:0/25.4	18	
10 18	4 22.98	+20 59.1	1.976	2.791	14.0	20.5	10 18	4 27.97	+31 29.2	1.388	2.199	19.1	19.5
10 28	4 18.35	+20 42.5	1.895	2.790	10.8	20.3	10 28	4 23.36	+32 1.1	1.324	2.207	15.3	19.3
11 7	4 11.43	+20 19.8	1.837	2.790	7.0	20.1	11 7	4 15.23	+32 17.2	1.278	2.215	11.0	19.0
11 17	4 2.90	+19 51.8	1.806	2.789	2.8	19.8	11 17	4 4.55	+32 13.4	1.255	2.224	6.8	18.8
11 27	3 53.73	+19 21.1	1.804	2.788	1.6	19.7	11 27	3 52.92	+31 48.9	1.258	2.234	5.1	18.8
12 7	3 45.04	+18 50.8	1.830	2.788	5.9	20.0	12 7	3 42.16	+31 7.9	1.287	2.244	7.9	19.0
12 17	3 37.78	+18 24.8	1.884	2.788	9.8	20.2	12 17	3 33.80	+30 17.9	1.341	2.254	12.1	19.2
12 27	3 32.71	+18 6.2	1.962	2.787	13.1	20.5	12 27	3 28.83	+29 27.6	1.417	2.265	16.0	19.5
160828	2000 <i>XP</i> ₂₇		11 23.5 343°16	1:3/23.8	18		22972	1999 <i>VR</i> ₁₂		11 23.5 67°42	1:6/22.9	18	
10 18	4 29.86	+20 27.2	1.594	2.411	16.7	19.4	10 18	4 24.37	+15 29.3	2.090	2.904	13.4	17.1
10 28	4 24.39	+21 21.2	1.514	2.409	13.0	19.2	10 28	4 19.16	+15 33.1	2.019	2.914	10.2	16.9
11 7	4 15.80	+21 13.7	1.456	2.406	8.6	18.9	11 7	4 11.84	+15 36.4	1.972	2.923	6.6	16.7
11 17	4 4.80	+23 2.0	1.423	2.404	3.7	18.6	11 17	4 3.06	+15 40.0	1.952	2.933	2.9	16.5
11 27	3 52.67	+23 43.8	1.418	2.402	2.1	18.5	11 27	3 53.74	+15 45.4	1.961	2.943	2.3	16.5
12 7	3 40.97	+24 18.8	1.441	2.401	6.9	18.8	12 7	3 44.89	+15 53.9	1.999	2.953	5.9	16.7
12 17	3 31.15	+24 48.5	1.492	2.399	11.5	19.1	12 17	3 37.41	+16 7.2	2.066	2.962	9.4	17.0
12 27	3 24.29	+25 16.2	1.566	2.398	15.5	19.3	12 27	3 31.99	+16 26.3	2.157	2.972	12.5	17.2
115136	2003 <i>SN</i> ₅₇		11 23.5 305°31	6:2/19.9	18		104145	2000 <i>EW</i> ₆₆		11 23.5 232°82	0:1/23.6	18	
10 18	4 21.76	+ 9 12.7	1.693	2.524	15.3	19.6	10 18	4 21.85	+21 38.5	2.721	3.521	11.0	20.8
10 28	4 17.60	+ 7 41.5	1.619	2.518	12.0	19.4	10 28	4 16.96	+21 29.8	2.625	3.512	8.5	20.6
11 7	4 11.04	+ 6 9.8	1.568	2.513	8.7	19.2	11 7	4 10.33	+21 16.2	2.554	3.502	5.5	20.4
11 17	4 2.76	+ 4 44.6	1.543	2.507	6.4	19.0	11 17	4 2.45	+20 58.1	2.511	3.493	2.2	20.2
11 27	3 53.83	+ 3 33.3	1.545	2.502	7.0	19.1	11 27	3 54.05	+20 36.9	2.498	3.483	1.2	20.1
12 7	3 45.41	+ 2 41.8	1.574	2.497	10.0	19.2	12 7	3 45.92	+20 14.6	2.516	3.473	4.6	20.3
12 17	3 38.52	+ 2 13.3	1.628	2.491	13.4	19.4	12 17	3 38.80	+19 53.9	2.564	3.463	7.7	20.5
12 27	3 33.94	+ 2 8.1	1.702	2.487	16.6	19.6	12 27	3 33.31	+19 37.3	2.637	3.452	10.5	20.7
264821	2002 <i>PV</i> ₁₅₃		11 23.5 42°78	4:6/21.3	18		193382	2000 <i>VO</i> ₂₄		11 23.5 0°91	0:9/23.8	18	
10 18	4 21.03	+ 7 30.1	2.166	2.983	12.9	20.0	10 18	4 23.96	+23 26.6	1.428	2.259	17.6	19.4
10 28	4 16.47	+ 6 56.7	2.098	2.989	10.1	19.8	10 28	4 20.00	+23 23.0	1.355	2.257	13.7	19.1
11 7	4 10.03	+ 6 27.3	2.052	2.994	7.2	19.7	11 7	4 12.96	+23 9.9	1.303	2.257	9.0	18.8
11 17	4 2.29	+ 6 5.2	2.034	3.000	4.9	19.5	11 17	4 3.64	+22 47.2	1.275	2.257	3.8	18.6
11 27	3 54.10	+ 5 53.6	2.044	3.005	5.1	19.6	11 27	3 53.42	+22 16.9	1.272	2.257	1.9	18.4
12 7	3 46.34	+ 5 54.5	2.082	3.011	7.5	19.7	12 7	3 43.85	+21 43.6	1.296	2.258	7.1	18.8
12 17	3 39.79	+ 6 8.7	2.147	3.017	10.4	19.9	12 17	3 36.29	+21 12.7	1.346	2.260	12.0	19.0
12 27	3 35.09	+ 6 35.7	2.236	3.023	13.0	20.1	12 27	3 31.71	+20 49.3	1.417	2.262	16.1	19.3
147154	2002 <i>UO</i> ₅		11 23.5 47°02	1:5/23.1	18		73064	2002 <i>FE</i> ₁₁		11 23.5 149°49	5:3/20.6	18	
10 18	4 28.07	+16 50.8	1.243	2.083	19.2	18.9	10 18	4 24.26	+ 7 57.6	2.083	2.896	13.5	21.1
10 28	4 23.17	+16 57.8	1.188	2.096	14.7	18.7	10 28	4 18.95	+ 6 50.5	2.016	2.904	10.6	20.9
11 7	4 14.94	+17 2.8	1.154	2.110	9.5	18.5	11 7	4 11.62	+ 5 45.7	1.973	2.912	7.6	20.7
11 17	4 4.37	+17 6.7	1.142	2.125	3.9	18.2	11 17	4 2.95	+ 4 48.0	1.957	2.919	5.5	20.6
11 27	3 53.02	+17 11.4	1.157	2.141	2.7	18.2	11 27	3 53.83	+ 4 2.2	1.969	2.925	5.9	20.7
12 7	3 42.61	+17 19.2	1.197	2.156	8.0	18.5	12 7	3 45.22	+ 3 32.0	2.011	2.931	8.3	20.8
12 17	3 34.54	+17 32.6	1.262	2.172	13.0	18.9	12 17	3 37.95	+ 3 19.0	2.079	2.936	11.2	21.0
12 27	3 29.71	+17 53.8	1.348	2.189	17.1	19.2	12 27	3 32.67	+ 3 23.1	2.170	2.941	13.9	21.2
104555	2000 <i>GP</i> ₆₅		11 23.5 30°89	4:3/21.2	18		122175	2000 <i>KL</i> ₃₄		11 23.5 137°14	1:3/22.9	18	
10 18	4 21.51	+14 4.8	1.639	2.474	15.5	19.3	10 18	4 28.11	+18 0.3	1.958	2.768	14.3	20.5
10 28	4 17.38	+12 44.7	1.575	2.480	11.9	19.1	10 28	4 22.10	+17 44.2	1.888	2.780	11.0	20.3
11 7	4 10.84	+11 21.2	1.533	2.486	8.0	18.9	11 7	4 13.76	+17 24.2	1.841	2.792	7.1	20.1
11 17	4 2.65	+ 9 59.9	1.517	2.493	4.7	18.7	11 17	4 3.83	+17 1.9	1.821	2.803	2.9	19.8
11 27	3 53.93	+ 8 47.6	1.529	2.500	5.1	18.7	11 27	3 53.36	+16 39.5	1.831	2.814	2.2	19.8
12 7	3 45.86	+ 7 50.4	1.568	2.507	8.6	19.0	12 7	3 43.48	+16 20.1	1.871	2.824	6.2	20.1
12 17	3 39.42	+ 7 11.9	1.632	2.515	12.3	19.2	12 17	3 35.19	+16 6.6	1.938	2.833	10.0	20.3
12 27	3 35.34	+ 6 53.4	1.718	2.523	15.6	19.4	12 27	3 29.19	+16 1.3	2.030	2.842	13.3	20.6
195344	2002 <i>ER</i> ₁₅₀		11 23.5 155°56	0:3/23.6	18		450882						

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
135853	2002 <i>SG</i> ₅₂		11 23.5 141°71	2°6/22.2	18		237124	2008 <i>TC</i> ₁₉₀		11 23.5 156°47	6°3/20.9	18	
10 18	4 26.09	+12 27.8	2.546	3.347	11.7	21.2	10 18	4 24.99	+2 43.9	2.102	2.907	13.7	20.6
10 28	4 19.99	+12 9.2	2.476	3.362	8.9	21.0	10 28	4 19.53	+2 6.6	2.033	2.911	11.0	20.4
11 7	4 12.14	+11 51.0	2.430	3.376	5.9	20.8	11 7	4 12.04	+1 36.9	1.988	2.916	8.3	20.3
11 17	4 3.14	+11 35.1	2.413	3.389	3.2	20.7	11 17	4 3.16	+1 18.8	1.969	2.920	6.5	20.2
11 27	3 53.75	+11 23.6	2.427	3.402	3.1	20.7	11 27	3 53.77	+1 15.8	1.978	2.923	6.7	20.2
12 7	3 44.81	+11 18.3	2.472	3.414	5.7	20.9	12 7	3 44.86	+1 29.7	2.015	2.927	8.8	20.4
12 17	3 37.04	+11 20.5	2.546	3.425	8.6	21.1	12 17	3 37.26	+2 0.2	2.079	2.930	11.5	20.5
12 27	3 31.01	+11 31.1	2.646	3.435	11.2	21.3	12 27	3 31.64	+2 45.7	2.166	2.932	14.0	20.7
404800	2014 <i>JW</i> ₆₀		11 23.5 81°79	3°2/22.3	18		151417	2002 <i>EA</i> ₁₄₆		11 23.5 180°24	0°6/23.8	18	
10 18	4 25.81	+11 32.5	1.912	2.729	14.4	20.9	10 18	4 23.57	+23 14.5	2.307	3.110	12.7	20.8
10 28	4 20.30	+11 22.0	1.850	2.745	11.0	20.7	10 28	4 18.54	+23 10.2	2.223	3.110	9.8	20.6
11 7	4 12.58	+11 13.6	1.811	2.760	7.3	20.5	11 7	4 11.47	+22 59.4	2.162	3.110	6.4	20.4
11 17	4 3.36	+11 9.5	1.799	2.775	4.0	20.4	11 17	4 2.96	+22 42.3	2.129	3.110	2.7	20.2
11 27	3 53.64	+11 11.9	1.815	2.790	3.8	20.4	11 27	3 53.88	+22 20.2	2.125	3.110	1.4	20.1
12 7	3 44.52	+11 22.3	1.860	2.805	7.0	20.6	12 7	3 45.20	+21 55.6	2.152	3.110	5.1	20.4
12 17	3 36.92	+11 41.8	1.933	2.820	10.4	20.8	12 17	3 37.78	+21 31.6	2.206	3.109	8.6	20.6
12 27	3 31.51	+12 10.4	2.029	2.835	13.5	21.1	12 27	3 32.32	+21 11.7	2.287	3.109	11.6	20.8
389592	2011 <i>GW</i> ₁₆		11 23.5 330°74	3°5/24.7	18		57668	2001 <i>UM</i> ₂₇		11 23.5 206°99	1°5/22.9	18	
10 18	4 22.74	+27 32.9	1.188	2.027	20.0	20.8	10 18	4 26.62	+18 2.3	1.860	2.676	14.8	20.3
10 28	4 20.07	+27 54.7	1.108	2.011	15.9	20.5	10 28	4 21.29	+17 39.1	1.777	2.672	11.4	20.1
11 7	4 13.62	+28 3.1	1.045	1.996	11.1	20.2	11 7	4 13.46	+17 11.4	1.715	2.668	7.4	19.8
11 17	4 4.12	+27 54.7	1.004	1.982	5.9	19.9	11 17	4 3.81	+16 40.7	1.681	2.663	3.1	19.6
11 27	3 53.14	+27 28.9	0.986	1.968	3.8	19.7	11 27	3 53.42	+16 10.1	1.675	2.658	2.4	19.5
12 7	3 42.68	+26 49.9	0.993	1.956	8.4	19.9	12 7	3 43.49	+15 43.0	1.698	2.652	6.7	19.8
12 17	3 34.59	+26 5.1	1.022	1.945	13.9	20.2	12 17	3 35.12	+15 23.1	1.749	2.646	10.8	20.0
12 27	3 30.19	+25 23.5	1.072	1.936	18.8	20.4	12 27	3 29.13	+15 13.2	1.823	2.639	14.4	20.2
482828	2013 <i>YB</i> ₆₅		11 23.5 197°47	6°9/26.9	18		19411	Collinarnold		11 23.5 254°86	1°4/22.9	18	
10 18	4 32.22	+39 40.2	1.972	2.722	16.3	21.2	10 18	4 26.64	+19 19.2	1.558	2.383	16.7	18.4
10 28	4 26.11	+40 14.7	1.885	2.719	13.7	21.0	10 28	4 21.90	+18 48.4	1.471	2.371	12.9	18.2
11 7	4 16.84	+40 31.3	1.817	2.717	10.8	20.8	11 7	4 14.17	+18 10.3	1.405	2.359	8.4	17.9
11 17	4 5.22	+40 25.0	1.774	2.713	8.1	20.7	11 17	4 4.19	+17 26.6	1.365	2.347	3.5	17.6
11 27	3 52.61	+39 53.5	1.758	2.709	6.9	20.6	11 27	3 53.20	+16 41.2	1.352	2.335	2.6	17.5
12 7	3 40.61	+38 59.1	1.770	2.705	8.1	20.7	12 7	3 42.69	+15 59.3	1.366	2.322	7.7	17.8
12 17	3 30.63	+37 48.6	1.808	2.700	10.8	20.8	12 17	3 34.00	+15 26.2	1.406	2.309	12.5	18.0
12 27	3 23.68	+36 30.9	1.872	2.695	13.8	21.0	12 27	3 28.13	+15 6.0	1.469	2.296	16.7	18.2
410617	2008 <i>PN</i> ₃		11 23.5 100°38	6°5/28.9	17		447995	2008 <i>CH</i> ₁₉₉		11 23.5 283°26	1°8/24.3	18	
10 18	4 30.12	+45 21.1	2.585	3.290	13.9	20.9	10 18	4 24.72	+25 36.2	1.995	2.799	14.3	21.6
10 28	4 23.53	+45 22.6	2.511	3.308	11.8	20.8	10 28	4 19.87	+25 45.7	1.908	2.794	11.2	21.4
11 7	4 14.57	+45 5.1	2.458	3.326	9.6	20.7	11 7	4 12.57	+25 46.9	1.844	2.789	7.5	21.2
11 17	4 4.11	+44 25.8	2.430	3.344	7.6	20.6	11 17	4 3.47	+25 38.7	1.806	2.785	3.6	21.0
11 27	3 53.28	+43 24.7	2.429	3.361	6.5	20.6	11 27	3 53.60	+25 21.9	1.796	2.780	2.1	20.8
12 7	3 43.27	+42 5.2	2.458	3.378	7.0	20.6	12 7	3 44.15	+24 58.8	1.816	2.775	5.7	21.1
12 17	3 35.02	+40 33.4	2.515	3.395	8.6	20.7	12 17	3 36.18	+24 33.4	1.863	2.770	9.6	21.3
12 27	3 29.19	+38 56.7	2.599	3.412	10.7	20.9	12 27	3 30.54	+24 10.2	1.934	2.765	13.1	21.5
484541	2008 <i>FJ</i> ₁₃₃		11 23.5 314°82	1°2/23.9	17		6966	Victoris		11 23.5 208°45	2°1/24.3	18	
10 18	4 23.23	+23 58.8	1.751	2.569	15.4	21.7	10 18	4 30.20	+26 16.3	1.574	2.382	17.3	18.5
10 28	4 19.10	+24 1.3	1.660	2.555	12.0	21.5	10 28	4 24.73	+26 20.2	1.491	2.379	13.6	18.2
11 7	4 12.27	+23 55.4	1.592	2.542	8.0	21.2	11 7	4 16.05	+26 12.7	1.428	2.374	9.2	18.0
11 17	4 3.40	+23 40.8	1.548	2.529	3.6	20.9	11 17	4 4.95	+25 52.1	1.391	2.370	4.4	17.7
11 27	3 53.58	+23 18.4	1.532	2.517	1.9	20.8	11 27	3 52.81	+25 19.3	1.381	2.365	2.5	17.5
12 7	3 44.15	+22 51.5	1.544	2.505	6.4	21.0	12 7	3 41.28	+24 38.2	1.399	2.359	7.0	17.8
12 17	3 36.32	+22 24.4	1.582	2.493	10.8	21.3	12 17	3 31.78	+23 55.0	1.444	2.353	11.7	18.1
12 27	3 31.04	+22 2.0	1.644	2.482	14.6	21.5	12 27	3 25.35	+23 16.6	1.511	2.346	15.9	18.3
56143	1999 <i>CO</i> ₈₂		11 23.5 241°85	1°5/23.0	18		301763	2010 <i>JB</i> ₄₄		11 23.5 186°59	0°0/23.5	18	
10 18	4 28.76	+15 45.2	1.820	2.634	15.1	18.8	10 18	4 25.27	+22 30.6	2.019	2.827	14.0	21.0
10 28	4 23.13	+15 55.1	1.729	2.623	11.7	18.6	10 28	4 20.07	+22 6.3	1.936	2.827	10.8	20.8
11 7	4 14.80	+16 4.8	1.661	2.612	7.7	18.3	11 7	4 12.56	+21 34.0	1.876	2.826	7.0	20.5
11 17	4 4.41	+16 14.7	1.619	2.600	3.3	18.0	11 17	4 3.42	+20 54.7	1.843	2.826	2.8	20.3
11 27	3 53.03	+16 26.0	1.606	2.588	2.5	18.0	11 27	3 53.66	+20 11.0	1.840	2.825	1.5	20.2
12 7	3 41.99	+16 40.1	1.622	2.576	6.9	18.2	12 7	3 44.38	+19 26.9	1.866	2.823	5.8	20.5
12 17	3 32.50	+16 58.7	1.665	2.563	11.2	18.4	12 17	3 36.59	+18 46.8	1.919	2.821	9.7	20.7
12 27	3 25.51	+17 23.5	1.733	2.550	14.9	18.7	12 27	3 31.03	+18 14.5	1.998	2.819	13.1	20.9
330214	2006 <i>GE</i> ₂₆		11 23.5 78°12	1°5/22.7	18		517868	2015 <i>RS</i> ₂₅₅		11 23.5 112°15	1°7/22.8	18	
10 18	4 21.08	+17 15.1	2.353	3.166	12.1	21.2	10 18	4 24.63	+16 20.2	2.031	2.846	13.7	22.0
10 28	4 16.47	+16 50.5	2.276	3.170	9.2	21.0	10 28	4 19.44	+16 6.4	1.959	2.854	10.5	21.8
11 7	4 10.04	+16 22.8	2.223	3.175	6.0	20.8	11 7	4 12.07	+15 50.5	1.910	2.862	6.8	21.6
11 17	4 2.35	+15 53.9	2.197	3.179	2.6	20.6	11 17	4 3.20	+15 34.1	1.888	2.869	3.0	21.4
11 27	3 54.20	+15 26.1	2.201	3.183	2.2	20.6	11 27	3 53.79	+15 19.5	1.895	2.876	2.5	21.4
12 7	3 46.45	+15 2.3	2.235	3.187	5.4	20.8	12 7	3 44.88	+15 9.0	1.931	2.883	6.1	21.6
12 17	3 39.87	+14 45.0	2.297	3.191	8.7	21.0	12 17	3 37.38	+15 5.1	1.995	2.890	9.8	21.8
12 27	3 35.07	+14 35.9	2.384	3.195	11.6	21.2	12 27	3 31.99	+15 9.3	2.083	2.897	12.9	22.1
157186	2004 <i>PU</i> ₉₆		11 23.5 158°76	0°2/23.6	18		196136	2002 <i>TW</i> ₂₄₇		1			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
112421	2002 <i>NT</i> ₄₆		11 23.5 115°12	0°3/23.6	18		487453	2014 <i>SL</i> ₄₅		11 23.5 192°18	4°8/21.1	18	
10 18	4 29.44	+21 54.8	1.567	2.384	17.0	20.3	10 18	4 21.89	+6 43.1	2.325	3.135	12.3	21.6
10 28	4 23.78	+21 50.7	1.500	2.395	13.1	20.0	10 28	4 17.09	+6 4.7	2.248	3.135	9.7	21.5
11 7	4 15.18	+21 39.0	1.454	2.406	8.5	19.8	11 7	4 10.46	+5 30.2	2.196	3.134	7.0	21.3
11 17	4 4.52	+21 20.0	1.434	2.416	3.5	19.5	11 17	4 2.58	+5 2.8	2.171	3.133	5.0	21.2
11 27	3 53.13	+20 55.6	1.441	2.426	1.8	19.4	11 27	3 54.21	+4 46.1	2.175	3.132	5.3	21.2
12 7	3 42.50	+20 29.6	1.477	2.436	6.8	19.8	12 7	3 46.21	+4 42.1	2.207	3.131	7.5	21.3
12 17	3 33.88	+20 6.7	1.539	2.445	11.3	20.1	12 17	3 39.34	+4 51.8	2.266	3.129	10.2	21.5
12 27	3 28.13	+19 51.0	1.624	2.454	15.2	20.3	12 27	3 34.22	+5 15.0	2.350	3.127	12.8	21.7
510105	2010 <i>RA</i> ₆₀		11 23.5 49°83	4°3/25.1	17		327969	2007 <i>EA</i> ₂₂₁		11 23.5 140°99	3°1/21.6	18	
10 18	4 29.83	+29 31.5	1.129	1.957	21.5	21.0	10 18	4 21.24	+12 43.1	2.384	3.198	11.9	21.6
10 28	4 25.17	+29 55.0	1.078	1.973	17.0	20.7	10 28	4 16.53	+11 55.2	2.310	3.203	9.2	21.5
11 7	4 16.55	+30 1.4	1.045	1.990	11.8	20.5	11 7	4 10.06	+11 6.5	2.259	3.207	6.2	21.3
11 17	4 5.13	+29 47.3	1.033	2.007	6.6	20.3	11 17	4 2.40	+10 20.0	2.237	3.211	3.6	21.1
11 27	3 52.85	+29 13.2	1.045	2.025	4.5	20.2	11 27	3 54.32	+9 39.3	2.244	3.215	3.7	21.1
12 7	3 41.81	+28 25.2	1.083	2.044	8.3	20.5	12 7	3 46.65	+9 7.7	2.281	3.219	6.4	21.3
12 17	3 33.62	+27 32.4	1.144	2.062	13.2	20.8	12 17	3 40.10	+8 47.2	2.346	3.223	9.3	21.5
12 27	3 29.24	+26 43.9	1.226	2.081	17.5	21.2	12 27	3 35.28	+8 39.0	2.435	3.226	12.0	21.7
71050	1999 <i>XY</i> ₈₈		11 23.5 329°00	3°3/22.1	18		261265	2005 <i>UJ</i> ₁₀₅		11 23.5 337°60	2°2/22.4	18	
10 18	4 22.60	+10 37.2	2.204	3.019	12.8	19.0	10 18	4 21.21	+16 54.6	1.857	2.683	14.3	20.5
10 28	4 17.77	+10 22.9	2.125	3.017	9.9	18.8	10 28	4 17.15	+16 17.0	1.777	2.678	11.0	20.3
11 7	4 10.98	+10 10.8	2.069	3.016	6.7	18.6	11 7	4 10.78	+15 35.2	1.719	2.673	7.2	20.0
11 17	4 2.79	+10 3.3	2.041	3.015	3.9	18.4	11 17	4 2.77	+14 51.8	1.688	2.669	3.3	19.8
11 27	3 54.05	+10 2.5	2.042	3.014	3.9	18.4	11 27	3 54.11	+14 10.8	1.684	2.665	3.0	19.8
12 7	3 45.68	+10 10.2	2.072	3.013	6.6	18.6	12 7	3 45.90	+13 36.2	1.709	2.661	6.8	20.0
12 17	3 38.51	+10 27.5	2.129	3.013	9.8	18.8	12 17	3 39.12	+13 11.6	1.761	2.658	10.7	20.2
12 27	3 33.23	+10 54.5	2.211	3.012	12.7	19.0	12 27	3 34.54	+12 59.3	1.835	2.655	14.1	20.4
495657	2016 <i>AZ</i> ₇₇		11 23.5 287°38	2°7/25.3	17		146048	2000 <i>EX</i> ₁₇		11 23.5 279°12	0°6/23.7	18	
10 18	4 22.49	+31 6.1	2.417	3.200	12.7	20.9	10 18	4 28.12	+21 26.6	1.598	2.417	16.6	20.3
10 28	4 17.77	+30 54.4	2.327	3.196	10.1	20.7	10 28	4 23.31	+21 43.1	1.501	2.396	13.0	20.0
11 7	4 11.01	+30 30.8	2.259	3.192	7.1	20.5	11 7	4 15.33	+21 54.5	1.424	2.375	8.6	19.7
11 17	4 2.80	+29 54.6	2.218	3.188	4.1	20.3	11 17	4 4.81	+21 59.7	1.372	2.354	3.7	19.4
11 27	3 54.05	+29 7.0	2.206	3.185	2.8	20.2	11 27	3 52.95	+21 58.9	1.348	2.333	1.9	19.2
12 7	3 45.72	+28 11.3	2.224	3.181	5.1	20.4	12 7	3 41.32	+21 53.9	1.352	2.312	7.2	19.5
12 17	3 38.68	+27 12.1	2.271	3.177	8.2	20.6	12 17	3 31.43	+21 48.5	1.381	2.290	12.2	19.7
12 27	3 33.61	+26 14.5	2.344	3.173	11.1	20.7	12 27	3 24.48	+21 47.1	1.434	2.268	16.6	19.9
384348	2009 <i>TZ</i> ₃₅		11 23.5 98°97	3°2/21.9	16		25110	1998 <i>RC</i> ₆₁		11 23.5 319°33	3°0/21.8	18	
10 18	4 28.00	+16 19.2	1.607	2.430	16.4	21.1	10 18	4 20.37	+14 34.5	2.081	2.904	13.1	18.6
10 28	4 22.24	+15 12.7	1.551	2.450	12.5	20.9	10 28	4 16.23	+13 42.0	1.999	2.898	10.1	18.4
11 7	4 13.92	+14 1.8	1.518	2.470	8.1	20.7	11 7	4 10.05	+12 46.5	1.941	2.892	6.7	18.1
11 17	4 3.93	+12 51.1	1.510	2.490	4.0	20.5	11 17	4 2.45	+11 51.5	1.909	2.887	3.6	17.9
11 27	3 53.52	+11 46.6	1.532	2.509	4.0	20.6	11 27	3 54.28	+11 1.3	1.906	2.881	3.7	17.9
12 7	3 43.97	+10 53.8	1.581	2.527	7.9	20.9	12 7	3 46.52	+10 20.0	1.932	2.876	6.9	18.1
12 17	3 36.31	+10 16.6	1.657	2.545	11.8	21.1	12 17	3 40.01	+9 50.9	1.985	2.871	10.3	18.3
12 27	3 31.23	+9 56.7	1.756	2.563	15.2	21.4	12 27	3 35.44	+9 35.7	2.062	2.866	13.4	18.5
305983	2009 <i>HF</i> ₁₀₄		11 23.5 226°48	1°6/22.8	18		441267	2007 <i>VH</i> ₃₂₈		11 23.5 44°62	3°3/25.3	15	
10 18	4 24.25	+16 34.7	2.163	2.975	13.1	21.6	10 18	4 26.15	+31 27.5	1.465	2.274	18.3	20.6
10 28	4 19.18	+16 17.8	2.075	2.968	10.0	21.4	10 28	4 21.44	+31 4.6	1.408	2.293	14.5	20.4
11 7	4 11.97	+15 58.4	2.010	2.961	6.5	21.2	11 7	4 13.68	+30 23.4	1.372	2.313	10.0	20.2
11 17	4 3.23	+15 37.9	1.973	2.954	2.9	20.9	11 17	4 3.90	+29 23.5	1.359	2.333	5.5	19.9
11 27	3 53.83	+15 18.6	1.965	2.947	2.4	20.9	11 27	3 53.60	+28 8.5	1.372	2.353	3.4	19.9
12 7	3 44.78	+15 3.2	1.987	2.939	6.0	21.1	12 7	3 44.33	+26 45.7	1.413	2.374	6.8	20.1
12 17	3 37.01	+14 54.2	2.037	2.931	9.7	21.3	12 17	3 37.28	+25 23.7	1.481	2.396	11.0	20.4
12 27	3 31.25	+14 53.6	2.111	2.922	12.9	21.5	12 27	3 33.20	+24 10.4	1.571	2.417	14.8	20.7
448770	2011 <i>SZ</i> ₆₈		11 23.5 79°87	8°3/19.8	17		522177	2016 <i>AY</i> ₂₅₆		11 23.5 317°19	5°0/21.3	17	
10 18	4 26.72	- 0 31.2	1.894	2.695	15.1	21.5	10 18	4 21.51	+ 5 16.7	2.261	3.072	12.6	21.3
10 28	4 20.65	- 1 54.0	1.861	2.730	12.3	21.4	10 28	4 16.91	+ 4 53.9	2.180	3.066	10.0	21.1
11 7	4 12.59	- 3 5.2	1.852	2.765	9.8	21.3	11 7	4 10.42	+ 4 36.7	2.123	3.059	7.3	20.9
11 17	4 3.33	- 3 58.7	1.868	2.799	8.4	21.3	11 17	4 2.59	+ 4 28.3	2.092	3.053	5.3	20.8
11 27	3 53.87	- 4 29.8	1.912	2.832	8.8	21.4	11 27	3 54.22	+ 4 31.5	2.090	3.047	5.5	20.8
12 7	3 45.20	- 4 37.0	1.982	2.865	10.5	21.5	12 7	3 46.16	+ 4 48.0	2.117	3.041	7.7	20.9
12 17	3 38.10	- 4 21.4	2.077	2.897	12.7	21.7	12 17	3 39.24	+ 5 17.8	2.170	3.036	10.5	21.1
12 27	3 33.13	- 3 46.2	2.193	2.928	14.8	22.0	12 27	3 34.10	+ 6 0.3	2.247	3.030	13.1	21.2
270261	2001 <i>UO</i> ₁₁₇		11 23.5 67°88	0°5/23.7	18		419493	2010 <i>EF</i> ₁₀₅		11 23.5 308°83	2°3/24.2	16	
10 18	4 30.32	+21 16.0	1.445	2.267	17.9	20.3	10 18	4 26.70	+24 30.5	2.174	2.971	13.5	21.1
10 28	4 24.49	+21 29.0	1.393	2.290	13.7	20.1	10 28	4 21.60	+25 20.6	2.060	2.942	10.7	20.9
11 7	4 15.61	+21 35.6	1.361	2.313	8.9	19.9	11 7	4 13.94	+26 7.6	1.971	2.913	7.3	20.6
11 17	4 4.67	+21 35.3	1.354	2.336	3.6	19.6	11 17	4 4.20	+26 48.8	1.908	2.884	3.8	20.4
11 27	3 53.14	+21 29.2	1.374	2.359	1.8	19.6	11 27	3 53.28	+27 22.2	1.874	2.855	2.6	20.2
12 7	3 42.56	+21 20.5	1.422	2.382	6.9	20.0	12 7	3 42.36	+27 47.3	1.871	2.827	5.9	20.4
12 17	3 34.18	+21 13.0	1.496	2.405	11.4	20.3	12 17	3 32.63	+28 5.6	1.896	2.798	9.8	20.6
12 27	3 28.80	+21 10.6	1.593	2.428	15.2	20.6	12 27	3 25.12	+28 20.3	1.946	2.770	13.3	20.7
6692	Antonínholý		11 23.5 254°51	3°3/21.8	18		149901	2005 <i>SK</i> ₃₅					

EPHEMERIDES

11 23.5

11 23.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
387638	2002 <i>PK</i> ₁₉₃		11 23.5 142°52	1.1°/23.0	18		327553	2006 <i>CK</i> ₁₁		11 23.5 178°29	3.9°/21.3	18	
10 18	4 26.13	+18 13.1	2.166	2.973	13.2	22.0	10 18	4 21.55	+8 28.2	2.534	3.343	11.5	21.0
10 28	4 20.47	+17 58.9	2.092	2.983	10.1	21.8	10 28	4 16.70	+7 54.1	2.457	3.344	9.0	20.9
11 7	4 12.70	+17 41.1	2.041	2.992	6.5	21.6	11 7	4 10.16	+7 22.6	2.404	3.344	6.3	20.7
11 17	4 3.49	+17 21.0	2.018	3.000	2.7	21.4	11 17	4 2.48	+6 56.3	2.378	3.345	4.2	20.6
11 27	3 53.77	+17 0.6	2.025	3.008	1.9	21.4	11 27	3 54.36	+6 38.2	2.382	3.345	4.4	20.6
12 7	3 44.55	+16 42.5	2.062	3.016	5.7	21.6	12 7	3 46.57	+6 30.5	2.416	3.345	6.6	20.7
12 17	3 36.70	+16 29.4	2.128	3.023	9.2	21.9	12 17	3 39.83	+6 34.3	2.477	3.344	9.3	20.9
12 27	3 30.91	+16 23.6	2.218	3.030	12.3	22.1	12 27	3 34.71	+6 49.6	2.563	3.344	11.7	21.1
323044	2002 <i>RT</i> ₆₇		11 23.5 44°43	6.1°/19.4	18		97676	2000 <i>FW</i> ₅₆		11 23.5 260°77	7.8°/17.9	18	
10 18	4 19.78	+6 44.3	2.096	2.917	13.1	19.6	10 18	4 19.30	-2 5.2	2.440	3.238	12.2	19.5
10 28	4 15.54	+5 7.9	2.038	2.928	10.4	19.4	10 28	4 15.06	-3 31.5	2.370	3.232	10.2	19.4
11 7	4 9.45	+3 34.3	2.003	2.939	7.7	19.3	11 7	4 9.15	-4 50.2	2.324	3.227	8.5	19.3
11 17	4 2.16	+2 9.7	1.996	2.950	6.1	19.2	11 17	4 2.08	-5 55.4	2.304	3.221	7.8	19.2
11 27	3 54.49	+0 59.9	2.017	2.962	6.7	19.3	11 27	3 54.57	-6 42.2	2.311	3.215	8.3	19.2
12 7	3 47.33	+0 9.1	2.066	2.973	8.9	19.4	12 7	3 47.38	-7 7.7	2.345	3.210	9.9	19.3
12 17	3 41.41	-0 20.9	2.141	2.985	11.5	19.6	12 17	3 41.21	-7 11.2	2.404	3.204	11.9	19.5
12 27	3 37.32	-0 30.3	2.238	2.997	13.9	19.8	12 27	3 36.64	-6 54.0	2.484	3.198	13.8	19.6
328833	2009 <i>WP</i> ₃₃		11 23.5 159°53	1.5°/22.8	17		477844	2011 <i>FO</i> ₇₆		11 23.5 121°41	2.3°/22.6	18	
10 18	4 22.99	+15 31.7	2.507	3.314	11.6	20.7	10 18	4 27.24	+16 12.2	1.713	2.534	15.6	22.1
10 28	4 17.87	+15 29.9	2.425	3.316	8.9	20.5	10 28	4 21.76	+15 42.5	1.646	2.544	11.9	21.9
11 7	4 10.96	+15 27.3	2.368	3.318	5.8	20.3	11 7	4 13.74	+15 9.8	1.602	2.554	7.8	21.7
11 17	4 2.79	+15 24.9	2.339	3.320	2.6	20.1	11 17	4 3.97	+14 36.6	1.583	2.564	3.6	21.5
11 27	3 54.13	+15 24.1	2.340	3.322	2.1	20.1	11 27	3 53.60	+14 6.4	1.593	2.573	3.2	21.5
12 7	3 45.80	+15 26.5	2.372	3.323	5.2	20.3	12 7	3 43.89	+13 43.1	1.631	2.583	7.2	21.7
12 17	3 38.57	+15 33.3	2.432	3.325	8.4	20.5	12 17	3 35.91	+13 29.5	1.696	2.591	11.2	22.0
12 27	3 33.05	+15 46.0	2.518	3.326	11.1	20.7	12 27	3 30.42	+13 27.7	1.785	2.600	14.7	22.3
242850	2006 <i>FO</i> ₅		11 23.5 72°57	2.4°/22.7	17		46996	1998 <i>TR</i> ₂₈		11 23.5 68°74	0.1°/23.6	18	
10 18	4 30.71	+17 38.3	1.232	2.067	19.6	20.7	10 18	4 25.02	+22 16.0	1.762	2.579	15.4	18.5
10 28	4 24.94	+17 1.5	1.187	2.092	14.9	20.5	10 28	4 20.14	+22 0.4	1.692	2.587	11.8	18.3
11 7	4 15.92	+16 19.8	1.162	2.118	9.6	20.3	11 7	4 12.74	+21 37.1	1.644	2.595	7.7	18.1
11 17	4 4.79	+15 36.8	1.161	2.143	4.1	20.1	11 17	4 3.58	+21 7.0	1.621	2.604	3.1	17.8
11 27	3 53.17	+14 57.3	1.186	2.168	3.4	20.1	11 27	3 53.80	+20 32.5	1.627	2.613	1.6	17.8
12 7	3 42.75	+14 26.6	1.238	2.193	8.4	20.4	12 7	3 44.65	+19 57.7	1.662	2.621	6.2	18.1
12 17	3 34.79	+14 8.7	1.314	2.217	13.1	20.8	12 17	3 37.20	+19 26.8	1.723	2.630	10.3	18.3
12 27	3 30.04	+14 5.4	1.412	2.242	17.1	21.1	12 27	3 32.19	+19 3.7	1.809	2.639	13.9	18.6
295539	2008 <i>RL</i> ₁₄₂		11 23.5 73°89	1.4°/24.5	18		207737	2007 <i>RL</i> ₂₁₉		11 23.5 270°57	1.1°/24.0	18	
10 18	4 23.57	+27 59.9	2.266	3.060	13.1	20.7	10 18	4 25.37	+24 26.5	1.838	2.648	15.1	21.0
10 28	4 18.43	+27 27.3	2.197	3.077	10.2	20.5	10 28	4 20.65	+24 22.4	1.746	2.637	11.8	20.7
11 7	4 11.31	+26 43.6	2.152	3.094	6.8	20.3	11 7	4 13.26	+24 9.4	1.676	2.625	7.9	20.5
11 17	4 2.90	+25 49.9	2.134	3.112	3.2	20.1	11 17	4 3.88	+23 47.0	1.632	2.613	3.5	20.2
11 27	3 54.13	+24 48.6	2.145	3.129	1.7	20.1	11 27	3 53.60	+23 16.6	1.616	2.601	1.8	20.0
12 7	3 45.97	+23 44.2	2.187	3.146	4.9	20.3	12 7	3 43.72	+22 41.5	1.629	2.589	6.2	20.3
12 17	3 39.22	+22 41.5	2.258	3.163	8.3	20.5	12 17	3 35.42	+22 6.5	1.669	2.577	10.5	20.5
12 27	3 34.48	+21 45.1	2.355	3.180	11.2	20.8	12 27	3 29.62	+21 36.5	1.732	2.564	14.3	20.7
353370	2011 <i>HO</i> ₂₆		11 23.5 52°29	7.0°/22.2	18		97709	2000 <i>GE</i> ₈₅		11 23.5 325°61	8.0°/20.7	18	
10 18	4 29.95	+3 36.5	1.372	2.196	18.6	19.0	10 18	4 23.61	+0 45.3	1.724	2.540	15.7	19.2
10 28	4 23.85	+3 20.0	1.335	2.226	14.6	18.9	10 28	4 19.06	+0 3.5	1.652	2.533	12.9	19.0
11 7	4 14.98	+3 15.5	1.319	2.257	10.6	18.7	11 7	4 12.08	-0 27.9	1.601	2.527	10.0	18.8
11 17	4 4.37	+3 26.7	1.326	2.288	7.5	18.7	11 17	4 3.35	-0 43.2	1.575	2.521	8.2	18.7
11 27	3 53.41	+3 56.1	1.360	2.320	7.5	18.7	11 27	3 53.91	-0 37.6	1.574	2.516	8.5	18.7
12 7	3 43.51	+4 43.0	1.420	2.351	10.2	19.0	12 7	3 44.92	-0 9.5	1.600	2.511	10.8	18.8
12 17	3 35.75	+5 45.0	1.506	2.383	13.5	19.3	12 17	3 37.44	+0 40.3	1.650	2.506	13.7	19.0
12 27	3 30.81	+6 58.4	1.613	2.414	16.6	19.5	12 27	3 32.27	+1 48.7	1.722	2.501	16.6	19.2
373875	2003 <i>SP</i> ₁₁₇		11 23.5 73°34	3.4°/22.2	16		24810	1994 <i>UE</i> ₈		11 23.5 176°60	0.5°/23.8	18	
10 18	4 29.80	+16 2.8	1.295	2.129	18.9	21.1	10 18	4 25.91	+23 40.5	2.333	3.130	12.7	20.1
10 28	4 24.02	+15 5.1	1.251	2.156	14.4	20.9	10 28	4 20.30	+23 25.2	2.248	3.132	9.8	19.9
11 7	4 15.22	+14 3.9	1.228	2.183	9.3	20.7	11 7	4 12.62	+23 2.5	2.187	3.134	6.4	19.7
11 17	4 4.48	+13 4.3	1.230	2.210	4.5	20.5	11 17	4 3.50	+22 32.7	2.154	3.135	2.7	19.4
11 27	3 53.35	+12 12.3	1.258	2.236	4.4	20.5	11 27	3 53.84	+21 57.5	2.150	3.135	1.3	19.3
12 7	3 43.37	+11 33.4	1.312	2.262	8.7	20.9	12 7	3 44.61	+21 20.2	2.178	3.135	5.1	19.6
12 17	3 35.70	+11 11.0	1.392	2.288	13.1	21.2	12 17	3 36.70	+20 44.3	2.234	3.135	8.6	19.8
12 27	3 31.04	+11 6.2	1.493	2.313	16.8	21.5	12 27	3 30.78	+20 13.6	2.316	3.133	11.7	20.0
447227	2005 <i>UZ</i> ₈₁		11 23.5 347°06	0.1°/23.6	17		75980	2000 <i>CK</i> ₁₂₈		11 23.5 77°79	1.7°/24.5	18	
10 18	4 22.98	+21 59.4	1.936	2.751	14.3	22.1	10 18	4 24.01	+26 57.0	2.283	3.077	13.0	20.0
10 28	4 18.49	+21 46.3	1.855	2.749	11.0	21.9	10 28	4 18.84	+26 54.6	2.213	3.093	10.1	19.8
11 7	4 11.65	+21 26.3	1.796	2.748	7.1	21.7	11 7	4 11.65	+26 43.2	2.167	3.109	6.8	19.7
11 17	4 3.15	+21 0.1	1.764	2.747	2.9	21.4	11 17	4 3.09	+26 22.6	2.148	3.125	3.4	19.5
11 27	3 53.98	+20 29.8	1.760	2.745	1.5	21.3	11 27	3 54.09	+25 54.1	2.159	3.141	2.0	19.4
12 7	3 45.27	+19 58.9	1.785	2.745	5.8	21.6	12 7	3 45.62	+25 20.6	2.199	3.157	5.0	19.6
12 17	3 38.04	+19 31.2	1.838	2.744	9.8	21.9	12 17	3 38.53	+24 45.8	2.268	3.173	8.2	19.9
12 27	3 33.04	+19 10.2	1.915	2.743	13.3	22.1	12 27	3 33.45	+24 13.8	2.362	3.189	11.1	20.1
419338	2009 <i>WN</i> ₁₇₁		11 23.5 174°73	2.2°/24.6	17		154170	2002 <i>GH</i> ₆₈		1			

EPHEMERIDES

11 23.5

11 23.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
448550	2010 <i>RQ</i> ₇₃		11 23.5 126°36	4 ² /25.7 18			160080	2000 <i>HG</i> ₂₁		11 23.6 254°93	1 ⁶ /22.9 18		
10 18	4 29.39	+33 16.6	2.318	3.084	13.7	21.6	10 18	4 27.16	+17 22.7	1.762	2.580	15.3	20.6
10 28	4 23.17	+33 48.6	2.243	3.097	11.0	21.4	10 28	4 22.08	+17 10.2	1.668	2.565	11.9	20.4
11 7	4 14.58	+34 8.8	2.190	3.110	8.1	21.2	11 7	4 14.26	+16 54.1	1.597	2.549	7.8	20.1
11 17	4 4.32	+34 14.5	2.164	3.123	5.3	21.1	11 17	4 4.34	+16 35.7	1.551	2.533	3.3	19.8
11 27	3 53.43	+34 4.9	2.167	3.135	4.2	21.0	11 27	3 53.43	+16 17.4	1.534	2.517	2.5	19.7
12 7	3 43.06	+33 41.9	2.200	3.147	5.9	21.2	12 7	3 42.84	+16 2.5	1.545	2.500	7.1	20.0
12 17	3 34.24	+33 9.5	2.261	3.158	8.7	21.4	12 17	3 33.81	+15 54.1	1.584	2.483	11.6	20.2
12 27	3 27.73	+32 33.2	2.348	3.168	11.4	21.6	12 27	3 27.33	+15 55.2	1.645	2.465	15.5	20.4
414968	2011 <i>CK</i> ₃₇		11 23.5 353°82	1 ⁴ /24.2 17			132763	2002 <i>PW</i> ₇₃		11 23.6 72°89	5 ⁸ /19.9 18		
10 18	4 22.73	+24 54.0	1.969	2.779	14.2	21.2	10 18	4 20.04	+ 4 59.2	2.286	3.099	12.4	19.9
10 28	4 18.36	+24 58.2	1.887	2.776	11.1	21.0	10 28	4 15.66	+ 3 49.1	2.221	3.106	9.9	19.7
11 7	4 11.62	+24 54.4	1.827	2.775	7.4	20.8	11 7	4 9.55	+ 2 43.3	2.181	3.113	7.4	19.6
11 17	4 3.17	+24 41.9	1.794	2.773	3.4	20.5	11 17	4 2.27	+ 1 46.6	2.167	3.119	5.9	19.5
11 27	3 54.02	+24 22.0	1.788	2.772	1.9	20.4	11 27	3 54.60	+ 1 3.5	2.183	3.126	6.3	19.6
12 7	3 45.31	+23 57.3	1.811	2.772	5.6	20.7	12 7	3 47.35	+ 0 37.0	2.225	3.133	8.3	19.7
12 17	3 38.07	+23 31.6	1.862	2.771	9.5	20.9	12 17	3 41.23	+ 0 28.3	2.294	3.140	10.8	19.9
12 27	3 33.09	+23 9.2	1.937	2.771	12.9	21.1	12 27	3 36.82	+ 0 36.8	2.386	3.146	13.1	20.0
92014	1999 <i>VZ</i> ₁₅₉		11 23.5 36°97	4 ² /25.1 18			116336	2003 <i>YB</i> ₇₇		11 23.6 109°29	2 ³ /22.5 17		
10 18	4 27.20	+30 5.7	1.864	2.658	15.6	18.9	10 18	4 22.69	+12 39.2	2.459	3.268	11.8	19.7
10 28	4 22.04	+30 55.1	1.793	2.667	12.4	18.7	10 28	4 17.68	+12 35.4	2.379	3.270	9.0	19.6
11 7	4 14.12	+31 34.0	1.744	2.677	8.9	18.5	11 7	4 10.88	+12 32.6	2.325	3.273	6.0	19.4
11 17	4 4.21	+31 59.1	1.720	2.687	5.5	18.4	11 17	4 2.83	+12 32.3	2.297	3.275	3.1	19.2
11 27	3 53.48	+32 8.8	1.724	2.697	4.3	18.3	11 27	3 54.29	+12 36.0	2.300	3.277	2.8	19.2
12 7	3 43.30	+32 4.4	1.756	2.708	6.6	18.5	12 7	3 46.09	+12 45.2	2.333	3.280	5.6	19.4
12 17	3 34.87	+31 49.9	1.815	2.719	10.0	18.7	12 17	3 38.99	+13 0.9	2.394	3.282	8.7	19.6
12 27	3 29.09	+31 31.0	1.898	2.731	13.2	18.9	12 27	3 33.60	+13 23.6	2.481	3.284	11.4	19.8
13020	1988 <i>PW</i> ₂		11 23.5 169°40	4 ⁴ /20.9 18			518247	2016 <i>UV</i> ₈₅		11 23.6 320°29	1 ¹ /23.9 18		
10 18	4 21.18	+ 9 9.5	2.273	3.089	12.4	18.4	10 18	4 25.29	+22 2.7	1.412	2.243	17.8	21.5
10 28	4 16.60	+ 8 16.6	2.198	3.089	9.7	18.2	10 28	4 21.42	+22 25.0	1.326	2.228	13.9	21.2
11 7	4 10.19	+ 7 25.2	2.148	3.090	6.8	18.0	11 7	4 14.24	+22 41.5	1.261	2.214	9.2	20.9
11 17	4 2.52	+ 6 39.1	2.124	3.091	4.6	17.9	11 17	4 4.45	+22 51.0	1.219	2.201	4.0	20.6
11 27	3 54.39	+ 6 2.4	2.130	3.091	4.9	17.9	11 27	3 53.37	+22 53.3	1.203	2.188	2.1	20.4
12 7	3 46.65	+ 5 38.0	2.164	3.092	7.4	18.1	12 7	3 42.68	+22 50.7	1.214	2.176	7.5	20.7
12 17	3 40.07	+ 5 27.7	2.226	3.092	10.2	18.2	12 17	3 33.95	+22 46.8	1.249	2.164	12.6	21.0
12 27	3 35.25	+ 5 31.9	2.311	3.092	12.8	18.4	12 27	3 28.36	+22 46.6	1.306	2.153	17.1	21.3
520776	2014 <i>SJ</i> ₃₂₂		11 23.5 110°80	1 ⁴ /22.8 18			429413	2010 <i>TS</i> ₁₄₆		11 23.6 284°39	1 ⁸ /24.2 18		
10 18	4 23.17	+16 25.9	2.417	3.225	12.0	21.8	10 18	4 27.36	+25 38.3	1.379	2.203	18.5	21.5
10 28	4 18.01	+16 15.0	2.344	3.236	9.1	21.6	10 28	4 23.04	+25 37.7	1.297	2.194	14.5	21.2
11 7	4 11.04	+16 2.4	2.296	3.246	5.9	21.4	11 7	4 15.27	+25 24.9	1.235	2.186	9.8	20.9
11 17	4 2.85	+15 49.2	2.275	3.257	2.6	21.2	11 17	4 4.84	+24 58.5	1.196	2.177	4.6	20.6
11 27	3 54.22	+15 37.3	2.285	3.267	2.1	21.2	11 27	3 53.21	+24 19.9	1.183	2.168	2.4	20.4
12 7	3 46.01	+15 28.7	2.325	3.277	5.3	21.4	12 7	3 42.17	+23 33.9	1.197	2.159	7.6	20.7
12 17	3 38.98	+15 25.3	2.393	3.287	8.4	21.7	12 17	3 33.29	+22 47.5	1.235	2.150	12.8	21.0
12 27	3 33.71	+15 28.4	2.487	3.296	11.2	21.9	12 27	3 27.72	+22 8.1	1.296	2.142	17.3	21.2
93879	2000 <i>WQ</i> ₁₂₈		11 23.5 88°27	0 ² /23.4 18			45670	2000 <i>EK</i> ₁₀₃		11 23.6 319°31	6 ² /21.6 18		
10 18	4 24.35	+20 29.3	2.108	2.918	13.4	20.1	10 18	4 23.82	+ 2 49.7	1.974	2.785	14.2	17.8
10 28	4 19.22	+20 23.5	2.037	2.929	10.3	19.9	10 28	4 19.08	+ 2 38.6	1.887	2.769	11.5	17.6
11 7	4 11.96	+20 12.8	1.989	2.940	6.6	19.7	11 7	4 12.08	+ 2 36.6	1.822	2.754	8.6	17.4
11 17	4 3.25	+19 58.0	1.968	2.951	2.7	19.5	11 17	4 3.41	+ 2 47.5	1.782	2.739	6.5	17.2
11 27	3 54.02	+19 40.6	1.976	2.961	1.5	19.4	11 27	3 53.98	+ 3 14.0	1.771	2.725	6.6	17.2
12 7	3 45.30	+19 23.4	2.014	2.972	5.4	19.7	12 7	3 44.83	+ 3 57.2	1.787	2.711	8.9	17.3
12 17	3 37.97	+19 9.0	2.080	2.982	9.1	20.0	12 17	3 36.96	+ 4 56.2	1.830	2.697	12.0	17.5
12 27	3 32.72	+19 0.3	2.171	2.993	12.2	20.2	12 27	3 31.18	+ 6 8.9	1.896	2.684	15.0	17.7
376676	2013 <i>QV</i> ₃₃		11 23.5 133°97	0 ¹ /23.6 18			181436	2006 <i>SM</i> ₃₄₈		11 23.6 331°99	2 ⁰ /24.3 18		
10 18	4 21.83	+22 13.7	3.020	3.814	10.2	22.5	10 18	4 25.54	+24 53.3	1.785	2.596	15.5	20.0
10 28	4 16.67	+21 59.0	2.943	3.826	7.8	22.3	10 28	4 20.86	+25 16.6	1.702	2.592	12.1	19.8
11 7	4 10.04	+21 39.4	2.891	3.838	5.0	22.1	11 7	4 13.46	+25 32.4	1.640	2.587	8.2	19.5
11 17	4 2.42	+21 15.6	2.868	3.850	2.0	22.0	11 17	4 4.01	+25 39.2	1.604	2.583	3.9	19.2
11 27	3 54.46	+20 48.9	2.876	3.861	1.0	21.9	11 27	3 53.67	+25 36.8	1.596	2.579	2.3	19.1
12 7	3 46.86	+20 21.7	2.915	3.872	4.0	22.1	12 7	3 43.75	+25 27.1	1.616	2.576	6.2	19.4
12 17	3 40.23	+19 56.2	2.984	3.882	6.8	22.3	12 17	3 35.49	+25 13.8	1.663	2.572	10.4	19.6
12 27	3 35.08	+19 34.7	3.080	3.892	9.2	22.5	12 27	3 29.81	+25 1.6	1.733	2.569	14.1	19.8
273481	2006 <i>YL</i> ₃₇		11 23.6 316°21	2 ³ /22.9 18			122716	2000 <i>SN</i> ₃₅		11 23.6 254°76	4 ¹ /25.0 18		
10 18	4 25.67	+15 28.2	1.366	2.204	17.9	20.4	10 18	4 28.93	+29 57.3	1.764	2.559	16.3	19.0
10 28	4 21.55	+15 24.8	1.287	2.194	13.9	20.1	10 28	4 23.73	+30 32.2	1.676	2.551	13.0	18.7
11 7	4 14.21	+15 20.5	1.227	2.183	9.1	19.9	11 7	4 15.49	+30 56.1	1.609	2.544	9.3	18.5
11 17	4 4.37	+15 17.2	1.191	2.173	4.1	19.5	11 17	4 4.89	+31 5.4	1.566	2.536	5.6	18.2
11 27	3 53.38	+15 17.2	1.181	2.163	3.3	19.5	11 27	3 53.19	+30 58.4	1.551	2.527	4.2	18.1
12 7	3 42.86	+15 23.5	1.197	2.154	8.3	19.7	12 7	3 41.92	+30 37.1	1.564	2.519	7.0	18.3
12 17	3 34.30	+15 38.4	1.238	2.146	13.4	20.0	12 17	3 32.47	+30 6.3	1.604	2.511	10.9	18.5
12 27	3 28.81	+16 3.7	1.300	2.137	17.8	20.2	12 27	3 25.90	+29 32.8	1.668	2.502	14.6	18.7
413765	2006 <i>DN</i> ₂₀₅												

EPHEMERIDES

11 23.6

11 23.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
257171	2008 <i>JS</i> ₁		11 23.6	17°07'	1.4°/22.8	17	119141	2001 <i>PX</i> ₂₅		11 23.6	6°17'	3.7°/22.5	18
10 18	4 22.55	+18 50.6	1.914	2.735	14.2	21.2	10 18	4 23.30	+13 33.4	1.197	2.048	19.0	19.1
10 28	4 18.11	+18 16.1	1.837	2.736	10.9	21.0	10 28	4 19.84	+13 13.2	1.135	2.048	14.7	18.9
11 7	4 11.40	+17 36.1	1.783	2.737	7.0	20.8	11 7	4 13.09	+12 53.4	1.091	2.049	9.8	18.6
11 17	4 3.10	+16 52.8	1.756	2.738	2.9	20.5	11 17	4 3.93	+12 37.6	1.071	2.051	5.0	18.3
11 27	3 54.21	+16 9.7	1.757	2.739	2.3	20.5	11 27	3 53.82	+12 30.0	1.074	2.054	4.6	18.3
12 7	3 45.82	+15 30.9	1.786	2.741	6.3	20.7	12 7	3 44.44	+12 34.0	1.103	2.058	9.2	18.6
12 17	3 38.88	+15 0.2	1.843	2.742	10.2	21.0	12 17	3 37.23	+12 51.5	1.154	2.063	14.1	18.9
12 27	3 34.12	+14 40.4	1.924	2.744	13.5	21.2	12 27	3 33.16	+13 22.9	1.226	2.068	18.3	19.2
398409	2011 <i>SJ</i> ₂₃₁		11 23.6	340°36'	3.6°/21.5	18	77354	2001 <i>FM</i> ₁₂₁		11 23.6	112°99'	1.8°/24.6	18
10 18	4 22.23	+15 53.8	1.742	2.571	15.0	20.2	10 18	4 26.36	+28 40.0	1.912	2.710	15.1	19.6
10 28	4 18.01	+14 34.2	1.666	2.568	11.5	20.0	10 28	4 21.07	+28 6.0	1.836	2.718	11.8	19.4
11 7	4 11.40	+13 8.4	1.613	2.566	7.6	19.7	11 7	4 13.30	+27 18.2	1.783	2.725	8.0	19.2
11 17	4 3.11	+11 41.6	1.586	2.564	4.2	19.5	11 17	4 3.87	+26 17.1	1.755	2.733	3.9	19.0
11 27	3 54.22	+10 20.5	1.588	2.562	4.4	19.5	11 27	3 53.89	+25 5.7	1.757	2.741	2.1	18.9
12 7	3 45.87	+9 11.5	1.618	2.561	8.0	19.8	12 7	3 44.60	+23 49.6	1.788	2.748	5.8	19.1
12 17	3 39.07	+8 19.5	1.674	2.559	11.9	20.0	12 17	3 37.01	+22 35.2	1.848	2.755	9.7	19.4
12 27	3 34.57	+7 46.8	1.752	2.558	15.3	20.2	12 27	3 31.84	+21 28.7	1.932	2.762	13.1	19.6
9489	Tanemahuta		11 23.6	133°99'	1.7°/22.7	18	168225	2006 <i>KV</i> ₁₀		11 23.6	277°86'	0.5°/23.3	18
10 18	4 24.93	+17 51.5	1.990	2.805	13.9	18.9	10 18	4 24.52	+21 18.9	1.752	2.571	15.3	20.5
10 28	4 19.76	+17 17.6	1.917	2.812	10.7	18.7	10 28	4 20.03	+20 53.5	1.663	2.560	11.9	20.3
11 7	4 12.37	+16 39.3	1.867	2.819	6.9	18.5	11 7	4 12.91	+20 20.0	1.597	2.549	7.7	20.0
11 17	4 3.48	+15 58.8	1.844	2.826	3.0	18.3	11 17	4 3.81	+19 39.6	1.556	2.538	3.1	19.7
11 27	3 54.04	+15 19.5	1.850	2.832	2.5	18.3	11 27	3 53.87	+18 55.3	1.543	2.527	1.9	19.6
12 7	3 45.15	+14 45.0	1.886	2.838	6.3	18.5	12 7	3 44.35	+18 11.7	1.558	2.516	6.6	19.9
12 17	3 37.71	+14 18.7	1.949	2.844	10.0	18.8	12 17	3 36.44	+17 33.7	1.600	2.505	11.1	20.1
12 27	3 32.43	+14 3.1	2.037	2.849	13.2	19.0	12 27	3 31.03	+17 5.6	1.666	2.494	14.9	20.3
53470	2000 <i>AG</i> ₁₆		11 23.6	35°50'	1.5°/24.2	18	250085	2002 <i>FJ</i> ₃₃		11 23.6	186°01'	4.6°/21.2	18
10 18	4 25.00	+25 40.9	1.300	2.132	18.9	18.2	10 18	4 22.39	+6 29.8	2.420	3.227	12.0	20.1
10 28	4 20.83	+25 29.3	1.249	2.151	14.6	18.0	10 28	4 17.45	+5 55.3	2.343	3.227	9.5	19.9
11 7	4 13.47	+25 4.8	1.218	2.170	9.7	17.7	11 7	4 10.75	+5 24.7	2.290	3.227	6.8	19.8
11 17	4 3.96	+24 27.8	1.209	2.190	4.3	17.5	11 17	4 2.83	+5 1.2	2.265	3.226	4.9	19.6
11 27	3 53.84	+23 41.7	1.227	2.212	2.2	17.4	11 27	3 54.44	+4 48.0	2.268	3.225	5.1	19.6
12 7	3 44.73	+22 52.4	1.270	2.233	7.1	17.8	12 7	3 46.39	+4 46.9	2.301	3.224	7.2	19.8
12 17	3 37.90	+22 6.6	1.339	2.256	11.8	18.1	12 17	3 39.44	+4 58.9	2.361	3.223	9.9	19.9
12 27	3 34.13	+21 29.9	1.429	2.279	15.8	18.4	12 27	3 34.18	+5 23.5	2.445	3.221	12.4	20.1
159409	Ratte		11 23.6	92°56'	7.3°/27.7	18	356518	2011 <i>SY</i> ₈₄		11 23.6	70°00'	0.5°/23.8	18
10 18	4 31.55	+40 55.1	1.795	2.548	17.5	19.7	10 18	4 26.56	+21 31.3	1.826	2.639	15.1	21.2
10 28	4 25.69	+41 19.4	1.725	2.561	14.7	19.5	10 28	4 21.41	+21 45.0	1.750	2.643	11.6	20.9
11 7	4 16.60	+41 22.7	1.675	2.573	11.6	19.4	11 7	4 13.69	+21 53.5	1.696	2.646	7.6	20.7
11 17	4 5.24	+41 0.1	1.648	2.586	8.7	19.2	11 17	4 4.11	+21 56.2	1.668	2.650	3.2	20.4
11 27	3 53.15	+40 10.8	1.647	2.598	7.3	19.2	11 27	3 53.78	+21 54.0	1.669	2.654	1.6	20.3
12 7	3 41.98	+38 58.8	1.673	2.610	8.3	19.3	12 7	3 43.95	+21 48.8	1.698	2.658	6.0	20.6
12 17	3 33.09	+37 32.4	1.726	2.622	11.0	19.5	12 17	3 35.75	+21 43.7	1.755	2.662	10.2	20.9
12 27	3 27.35	+36 1.6	1.803	2.634	13.9	19.7	12 27	3 30.01	+21 42.1	1.836	2.666	13.7	21.1
401318	2013 <i>AE</i> ₁₁		11 23.6	252°55'	4.3°/21.4	14 C	331997	2005 <i>GZ</i> ₁₇₄		11 23.6	190°83'	1.6°/22.9	18
10 18	4 24.27	+9 5.9	2.202	3.013	12.9	21.9	10 18	4 28.38	+17 54.9	1.693	2.510	15.9	22.2
10 28	4 19.24	+8 28.7	2.107	2.995	10.1	21.7	10 28	4 22.93	+17 33.5	1.613	2.510	12.2	22.0
11 7	4 12.11	+7 53.1	2.034	2.977	7.1	21.4	11 7	4 14.74	+17 7.4	1.556	2.508	8.0	21.7
11 17	4 3.43	+7 22.4	1.990	2.958	4.7	21.3	11 17	4 4.55	+16 38.5	1.525	2.507	3.4	21.4
11 27	3 54.03	+7 0.4	1.974	2.939	4.9	21.2	11 27	3 53.55	+16 9.7	1.522	2.505	2.6	21.4
12 7	3 44.89	+6 50.1	1.987	2.919	7.6	21.4	12 7	3 43.10	+15 44.9	1.548	2.502	7.1	21.7
12 17	3 36.91	+6 53.1	2.028	2.899	10.8	21.5	12 17	3 34.38	+15 27.7	1.600	2.499	11.5	21.9
12 27	3 30.84	+7 10.0	2.092	2.878	13.8	21.7	12 27	3 28.30	+15 21.2	1.676	2.495	15.3	22.1
222179	2000 <i>BY</i> ₃₄		11 23.6	282°31'	7.7°/20.5	18	359273	2009 <i>FL</i> ₇₇		11 23.6	299°26'	5.3°/20.6	18
10 18	4 25.41	-4 34.5	2.414	3.193	12.9	19.3	10 18	4 21.68	+11 42.5	1.699	2.531	15.2	20.8
10 28	4 19.90	-4 56.3	2.321	3.171	10.9	19.1	10 28	4 17.85	+10 20.0	1.609	2.511	11.9	20.6
11 7	4 12.44	-5 6.3	2.250	3.149	9.0	19.0	11 7	4 11.51	+8 53.6	1.542	2.491	8.3	20.3
11 17	4 3.55	-5 0.2	2.205	3.127	7.8	18.8	11 17	4 3.28	+7 29.1	1.500	2.471	5.6	20.1
11 27	3 53.99	-4 34.7	2.188	3.105	8.0	18.8	11 27	3 54.19	+6 14.0	1.486	2.451	6.2	20.1
12 7	3 44.65	-3 48.8	2.199	3.082	9.6	18.9	12 7	3 45.46	+5 15.0	1.499	2.432	9.5	20.2
12 17	3 36.36	-2 43.7	2.237	3.060	11.8	19.0	12 17	3 38.20	+4 36.7	1.537	2.412	13.4	20.4
12 27	3 29.84	-1 22.1	2.299	3.037	14.1	19.1	12 27	3 33.29	+4 20.8	1.596	2.393	17.0	20.6
4575	Broman		11 23.6	211°89'	5.0°/20.9	18 R	207239	2005 <i>EJ</i> ₁₆₈		11 23.6	73°24'	1.2°/24.1	18
10 18	4 21.45	+6 34.4	2.317	3.129	12.3	16.6	10 18	4 26.37	+24 26.9	1.758	2.569	15.6	20.7
10 28	4 16.81	+5 48.7	2.240	3.127	9.7	16.5	10 28	4 21.27	+24 26.3	1.689	2.580	12.1	20.5
11 7	4 10.37	+5 6.5	2.187	3.125	7.1	16.3	11 7	4 13.56	+24 16.9	1.643	2.591	8.0	20.3
11 17	4 2.67	+4 31.6	2.162	3.122	5.2	16.2	11 17	4 4.02	+23 58.3	1.621	2.602	3.6	20.1
11 27	3 54.48	+4 7.7	2.165	3.120	5.5	16.2	11 27	3 53.85	+23 32.2	1.628	2.613	1.8	20.0
12 7	3 46.65	+3 57.2	2.196	3.117	7.7	16.3	12 7	3 44.33	+23 2.1	1.664	2.624	6.0	20.3
12 17	3 39.94	+4 1.4	2.255	3.115	10.4	16.5	12 17	3 36.56	+22 32.5	1.726	2.635	10.2	20.5
12 27	3 34.96	+4 20.0	2.337	3.112	12.9	16.7	12 27	3 31.33	+22 7.8	1.813	2.646	13.7	20.8
287269	2002 <i>TW</i> ₁₅₅		11 23.6	161°12'	3.4°/21.0	18	24960	1997 <i>TV</i> ₁₇		11 23.6	102°21'	2.5°/22.0	

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
517380	2014 <i>KK</i> ₇₈		11 23.6 172°11	0°2/23.7	18		266560	2008 <i>GN</i> ₅₄		11 23.6 156°76	0°3/23.7	18	
10 18	4 26.26	+21 44.7	2.115	2.919	13.6	22.1	10 18	4 29.82	+21 46.2	1.844	2.649	15.2	21.8
10 28	4 20.83	+21 42.5	2.033	2.921	10.5	21.9	10 28	4 23.83	+21 44.8	1.767	2.656	11.8	21.6
11 7	4 13.15	+21 34.5	1.974	2.923	6.8	21.7	11 7	4 15.21	+21 37.0	1.714	2.663	7.7	21.3
11 17	4 3.86	+21 21.0	1.943	2.924	2.8	21.5	11 17	4 4.73	+21 22.6	1.686	2.668	3.2	21.1
11 27	3 53.93	+21 3.2	1.941	2.926	1.4	21.4	11 27	3 53.53	+21 3.2	1.688	2.673	1.6	21.0
12 7	3 44.44	+20 43.8	1.968	2.926	5.5	21.6	12 7	3 42.92	+20 41.7	1.720	2.678	6.1	21.3
12 17	3 36.36	+20 25.8	2.024	2.927	9.3	21.9	12 17	3 34.01	+20 22.0	1.779	2.681	10.3	21.6
12 27	3 30.44	+20 12.6	2.105	2.927	12.5	22.1	12 27	3 27.64	+20 7.9	1.862	2.685	13.9	21.8
174226	2002 <i>RQ</i> ₃₃		11 23.6	1°01	6°0/26.0	18	202188	2004 <i>XZ</i> ₄₀		11 23.6 238°91	2°0/22.9	18	
10 18	4 23.29	+33 31.7	1.363	2.177	19.2	19.1	10 18	4 28.09	+14 15.9	1.926	2.738	14.5	19.8
10 28	4 20.14	+34 6.5	1.292	2.174	15.7	18.9	10 28	4 22.52	+14 25.6	1.837	2.730	11.2	19.6
11 7	4 13.48	+34 23.5	1.239	2.173	11.6	18.7	11 7	4 14.43	+14 36.2	1.772	2.722	7.4	19.4
11 17	4 4.17	+34 18.3	1.209	2.173	7.7	18.4	11 17	4 4.47	+14 48.7	1.733	2.714	3.4	19.1
11 27	3 53.75	+33 49.7	1.202	2.174	6.0	18.4	11 27	3 53.65	+15 4.1	1.724	2.705	2.7	19.0
12 7	3 44.06	+33 1.6	1.221	2.176	8.4	18.5	12 7	3 43.16	+15 23.6	1.744	2.696	6.6	19.3
12 17	3 36.66	+32 1.7	1.263	2.180	12.4	18.7	12 17	3 34.11	+15 48.4	1.792	2.687	10.7	19.5
12 27	3 32.63	+30 59.8	1.328	2.185	16.3	19.0	12 27	3 27.40	+16 19.5	1.864	2.678	14.2	19.7
40041	1998 <i>KK</i> ₂₉		11 23.6 114°60	2°4/22.4	18		306451	1999 <i>AW</i> ₁₂		11 23.6 311°69	3°1/22.3	18	
10 18	4 25.95	+15 39.7	1.925	2.741	14.3	20.1	10 18	4 23.89	+13 2.7	1.884	2.706	14.3	21.1
10 28	4 20.52	+15 4.6	1.859	2.754	10.9	19.9	10 28	4 19.18	+12 38.2	1.807	2.704	11.1	20.9
11 7	4 12.86	+14 27.0	1.816	2.767	7.1	19.7	11 7	4 12.16	+12 13.7	1.752	2.703	7.4	20.7
11 17	4 3.70	+13 49.6	1.800	2.780	3.4	19.5	11 17	4 3.50	+11 51.9	1.724	2.702	3.9	20.5
11 27	3 54.05	+13 15.9	1.813	2.792	3.1	19.5	11 27	3 54.18	+11 35.9	1.724	2.700	3.8	20.5
12 7	3 45.00	+12 49.2	1.856	2.804	6.7	19.8	12 7	3 45.31	+11 28.5	1.752	2.699	7.2	20.7
12 17	3 37.47	+12 32.5	1.925	2.816	10.3	20.0	12 17	3 37.87	+11 31.6	1.807	2.698	10.9	20.9
12 27	3 32.15	+12 27.3	2.019	2.827	13.5	20.3	12 27	3 32.63	+11 46.2	1.886	2.697	14.2	21.1
462116	2007 <i>RD</i> ₁₁₇		11 23.6 11°41	4°0/25.8	16		460503	2014 <i>SM</i> ₃₁₈		11 23.6 25°62	3°8/21.5	18	
10 18	4 23.86	+33 3.7	2.385	3.160	13.1	21.7	10 18	4 20.38	+11 57.3	2.079	2.902	13.1	20.9
10 28	4 19.03	+33 27.3	2.301	3.161	10.6	21.5	10 28	4 16.20	+11 4.9	2.008	2.906	10.1	20.7
11 7	4 12.00	+33 39.5	2.239	3.162	7.8	21.3	11 7	4 10.07	+10 12.2	1.961	2.910	6.9	20.5
11 17	4 3.41	+33 38.4	2.202	3.163	5.1	21.1	11 17	4 2.60	+9 23.1	1.941	2.914	4.2	20.3
11 27	3 54.16	+33 23.4	2.195	3.164	4.0	21.1	11 27	3 54.66	+8 41.6	1.949	2.919	4.4	20.4
12 7	3 45.31	+32 56.5	2.216	3.166	5.7	21.2	12 7	3 47.17	+8 11.3	1.985	2.923	7.2	20.5
12 17	3 37.81	+32 21.4	2.266	3.167	8.4	21.4	12 17	3 40.93	+7 54.6	2.049	2.928	10.3	20.8
12 27	3 32.39	+31 43.1	2.341	3.169	11.2	21.5	12 27	3 36.59	+7 52.2	2.135	2.933	13.2	21.0
207273	2005 <i>EL</i> ₃₂₁		11 23.6 310°80	0°5/23.4	18		495317	2014 <i>HL</i> ₄₆		11 23.6 59°59	15°8/25.6	17	
10 18	4 25.27	+20 2.9	1.773	2.592	15.2	21.2	10 18	4 43.84	-14 14.5	0.971	1.759	27.0	20.1
10 28	4 20.49	+19 55.3	1.694	2.590	11.7	20.9	10 28	4 35.71	-14 1.2	0.929	1.775	23.4	19.9
11 7	4 13.13	+19 42.3	1.637	2.589	7.6	20.7	11 7	4 23.30	-13 6.7	0.901	1.792	19.7	19.7
11 17	4 3.90	+19 24.8	1.605	2.588	3.1	20.4	11 17	4 7.99	-11 21.8	0.892	1.810	16.7	19.6
11 27	3 53.91	+19 4.8	1.602	2.587	1.8	20.3	11 27	3 51.98	-8 46.0	0.906	1.827	15.8	19.7
12 7	3 44.41	+18 45.4	1.627	2.586	6.4	20.6	12 7	3 37.60	-5 30.2	0.944	1.845	17.3	19.8
12 17	3 36.53	+18 30.0	1.679	2.585	10.6	20.9	12 17	3 26.55	-1 51.7	1.005	1.864	20.2	20.1
12 27	3 31.10	+18 22.1	1.755	2.584	14.3	21.1	12 27	3 19.77	+1 52.9	1.087	1.882	23.4	20.4
260146	2004 <i>RO</i> ₃		11 23.6 11°38	5°0/21.8	18		294827	2008 <i>CQ</i> ₁₄₁		11 23.6 337°19	1°4/23.1	18	
10 18	4 22.15	+8 11.9	1.739	2.567	15.1	19.6	10 18	4 24.26	+19 39.0	1.240	2.085	18.9	20.9
10 28	4 17.93	+7 45.2	1.671	2.569	11.8	19.4	10 28	4 20.73	+19 10.5	1.168	2.078	14.7	20.6
11 7	4 11.36	+7 23.2	1.626	2.572	8.3	19.2	11 7	4 13.80	+18 33.6	1.114	2.073	9.6	20.3
11 17	4 3.16	+7 9.6	1.606	2.575	5.4	19.0	11 17	4 4.32	+17 50.8	1.084	2.067	3.9	20.0
11 27	3 54.33	+7 7.9	1.612	2.579	5.5	19.0	11 27	3 53.76	+17 6.6	1.079	2.063	2.8	19.9
12 7	3 46.01	+7 20.0	1.646	2.584	8.4	19.2	12 7	3 43.86	+16 27.0	1.099	2.059	8.4	20.3
12 17	3 39.18	+7 46.6	1.705	2.589	11.9	19.4	12 17	3 36.15	+15 58.0	1.142	2.055	13.8	20.5
12 27	3 34.61	+8 26.6	1.787	2.594	15.0	19.7	12 27	3 31.68	+15 43.7	1.207	2.052	18.3	20.8
95700	2002 <i>JP</i> ₈₈		11 23.6 217°32	2°3/24.6	17		369725	2012 <i>DH</i> ₈₁		11 23.6 255°19	1°0/23.2	16	
10 18	4 25.55	+26 48.8	2.290	3.082	13.1	20.6	10 18	4 28.07	+19 42.9	1.442	2.270	17.6	21.7
10 28	4 20.32	+27 12.5	2.202	3.080	10.3	20.4	10 28	4 23.36	+19 26.5	1.359	2.260	13.7	21.4
11 7	4 12.86	+27 28.8	2.138	3.078	7.0	20.2	11 7	4 15.41	+19 3.1	1.296	2.250	9.0	21.1
11 17	4 3.77	+27 36.0	2.101	3.076	3.7	20.0	11 17	4 4.97	+18 34.1	1.257	2.240	3.7	20.8
11 27	3 53.99	+27 34.1	2.093	3.074	2.4	19.9	11 27	3 53.42	+18 2.2	1.245	2.230	2.4	20.7
12 7	3 44.55	+27 24.4	2.115	3.072	5.3	20.1	12 7	3 42.36	+17 32.2	1.261	2.219	7.8	21.0
12 17	3 36.43	+27 10.0	2.166	3.070	8.6	20.3	12 17	3 33.29	+17 8.9	1.301	2.208	12.9	21.3
12 27	3 30.39	+26 54.7	2.242	3.068	11.7	20.5	12 27	3 27.28	+16 56.8	1.363	2.197	17.3	21.5
324759	2007 <i>GL</i> ₁₅		11 23.6 115°69	3°8/21.3	18		179609	2002 <i>OX</i> ₁₆		11 23.6 94°84	2°6/22.5	18	
10 18	4 21.46	+11 18.1	2.213	3.030	12.6	21.2	10 18	4 29.06	+16 52.5	1.523	2.347	17.0	20.3
10 28	4 16.89	+10 24.6	2.139	3.033	9.8	21.0	10 28	4 23.33	+16 6.4	1.467	2.367	13.0	20.1
11 7	4 10.46	+9 31.0	2.090	3.037	6.7	20.8	11 7	4 14.85	+15 15.9	1.433	2.386	8.4	19.9
11 17	4 2.74	+8 41.2	2.068	3.040	4.2	20.7	11 17	4 4.55	+14 24.8	1.425	2.406	3.9	19.6
11 27	3 54.56	+7 59.1	2.076	3.043	4.4	20.7	11 27	3 53.75	+13 37.9	1.445	2.425	3.5	19.7
12 7	3 46.81	+7 28.1	2.112	3.046	7.1	20.9	12 7	3 43.84	+13 0.0	1.492	2.443	7.7	20.0
12 17	3 40.26	+7 10.5	2.175	3.049	10.1	21.1	12 17	3 35.93	+12 34.9	1.566	2.461	11.9	20.3
12 27	3 35.53	+7 7.0	2.263	3.052	12.8	21.3	12 27	3 30.75	+12 24.6	1.662	2.479	15.5	20.5
385755	2005 <i>YQ</i> ₂₄		11 23.6 44°73	3°3/22.6	18		140088	2001 <i>SQ</i> ₁₂₄					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
329286	2000 <i>DA</i> ₆₇		11 23.6 316°49	8°4/18.6	17		61998	2000 <i>RT</i> ₃₄		11 23.6 11°17	3°6/25.1	18	
10 18	4 19.45	— 0 31.8	2.029	2.841	13.8	20.6	10 18	4 27.29	+29 42.7	1.603	2.408	17.2	19.1
10 28	4 15.65	— 1 52.2	1.953	2.827	11.5	20.4	10 28	4 22.58	+29 58.7	1.526	2.408	13.7	18.9
11 7	4 9.83	— 3 4.9	1.899	2.814	9.4	20.3	11 7	4 14.78	+30 1.3	1.469	2.409	9.6	18.7
11 17	4 2.57	— 4 3.4	1.871	2.801	8.4	20.2	11 17	4 4.69	+29 48.0	1.437	2.410	5.5	18.4
11 27	3 54.71	— 4 41.8	1.869	2.789	9.0	20.2	11 27	3 53.67	+29 18.8	1.431	2.410	3.7	18.3
12 7	3 47.17	— 4 56.5	1.893	2.777	10.9	20.3	12 7	3 43.27	+28 37.3	1.453	2.411	7.0	18.5
12 17	3 40.83	— 4 46.9	1.940	2.765	13.3	20.4	12 17	3 34.88	+27 49.9	1.500	2.412	11.1	18.8
12 27	3 36.38	— 4 14.6	2.008	2.753	15.7	20.6	12 27	3 29.45	+27 3.8	1.572	2.414	15.0	19.0
363099	2000 <i>SH</i> ₃₄₆		11 23.6 261°44	0°5/23.8	18		305086	2007 <i>UL</i> ₁₃₁		11 23.6 33°15	7°9/26.9	18	
10 18	4 23.91	+22 55.9	2.062	2.870	13.7	21.6	10 18	4 30.49	+39 1.0	1.721	2.487	17.7	20.3
10 28	4 19.15	+22 46.5	1.979	2.870	10.6	21.3	10 28	4 25.35	+40 4.9	1.647	2.490	14.9	20.1
11 7	4 12.13	+22 29.9	1.920	2.869	7.0	21.1	11 7	4 16.76	+40 51.4	1.592	2.494	11.8	19.9
11 17	4 3.50	+22 6.5	1.886	2.868	2.9	20.9	11 17	4 5.55	+41 14.2	1.560	2.498	9.1	19.8
11 27	3 54.24	+21 38.2	1.882	2.867	1.4	20.8	11 27	3 53.20	+41 9.5	1.554	2.502	7.9	19.7
12 7	3 45.41	+21 7.9	1.907	2.866	5.5	21.0	12 7	3 41.50	+40 39.2	1.573	2.507	9.1	19.8
12 17	3 37.99	+20 39.5	1.960	2.866	9.3	21.3	12 17	3 32.00	+39 49.5	1.619	2.511	11.8	20.0
12 27	3 32.72	+20 16.5	2.038	2.865	12.6	21.5	12 27	3 25.80	+38 49.8	1.687	2.516	14.7	20.2
430903	2005 <i>SR</i> ₅₁		11 23.6 52°72	3°1/24.6	18		41146	1999 <i>VS</i> ₁₃₆		11 23.6 165°51	0°2/23.5	18	
10 18	4 29.65	+26 31.4	1.385	2.203	18.7	20.5	10 18	4 26.48	+21 29.4	2.314	3.113	12.7	20.1
10 28	4 24.60	+27 6.8	1.323	2.215	14.7	20.3	10 28	4 20.76	+21 8.7	2.233	3.119	9.8	20.0
11 7	4 16.14	+27 31.6	1.281	2.227	10.0	20.0	11 7	4 12.99	+20 41.9	2.175	3.124	6.3	19.7
11 17	4 5.22	+27 42.7	1.263	2.240	5.2	19.8	11 17	4 3.82	+20 9.8	2.146	3.128	2.6	19.5
11 27	3 53.38	+27 39.5	1.271	2.252	3.4	19.7	11 27	3 54.13	+19 34.6	2.147	3.132	1.4	19.4
12 7	3 42.38	+27 24.7	1.305	2.266	7.4	20.0	12 7	3 44.90	+18 59.4	2.178	3.135	5.2	19.7
12 17	3 33.70	+27 4.0	1.365	2.279	11.9	20.3	12 17	3 36.99	+18 27.6	2.239	3.137	8.7	19.9
12 27	3 28.30	+26 43.8	1.448	2.292	15.9	20.6	12 27	3 31.05	+18 2.4	2.326	3.139	11.8	20.1
296888	2010 <i>BM</i> ₁		11 23.6 255°60	3°9/22.1	18		410155	2007 <i>HC</i> ₆₉		11 23.6 106°80	0°1/23.7	18	
10 18	4 26.19	+11 28.6	1.772	2.593	15.1	20.6	10 18	4 24.11	+21 22.7	2.506	3.306	11.9	21.4
10 28	4 21.23	+11 1.9	1.685	2.581	11.8	20.3	10 28	4 18.77	+21 21.6	2.434	3.320	9.1	21.2
11 7	4 13.69	+10 36.2	1.620	2.568	8.1	20.1	11 7	4 11.62	+21 15.9	2.386	3.334	5.9	21.1
11 17	4 4.22	+10 14.7	1.580	2.556	4.6	19.8	11 17	4 3.24	+21 5.8	2.367	3.348	2.4	20.9
11 27	3 53.86	+10 0.9	1.569	2.543	4.6	19.8	11 27	3 54.44	+20 52.7	2.377	3.362	1.2	20.8
12 7	3 43.87	+9 57.9	1.586	2.529	8.1	20.0	12 7	3 46.07	+20 38.5	2.418	3.375	4.7	21.1
12 17	3 35.37	+10 7.7	1.629	2.516	12.1	20.2	12 17	3 38.88	+20 25.7	2.488	3.389	7.8	21.3
12 27	3 29.29	+10 31.0	1.694	2.502	15.7	20.4	12 27	3 33.48	+20 16.5	2.584	3.401	10.6	21.5
221950	1993 <i>TF</i> ₁₅		11 23.6 9°98	3°6/24.9	17		51544	2001 <i>FH</i> ₁₅₁		11 23.6 132°44	3°4/22.1	18	
10 18	4 25.25	+28 40.0	1.845	2.647	15.4	19.4	10 18	4 27.39	+14 24.1	1.682	2.503	15.8	19.7
10 28	4 20.65	+29 19.4	1.768	2.648	12.2	19.2	10 28	4 21.96	+13 34.9	1.615	2.513	12.1	19.5
11 7	4 13.37	+29 49.2	1.712	2.650	8.6	19.0	11 7	4 13.99	+12 43.4	1.571	2.522	8.0	19.3
11 17	4 4.08	+30 6.8	1.682	2.653	5.0	18.8	11 17	4 4.25	+11 53.4	1.553	2.530	4.2	19.1
11 27	3 53.95	+30 10.9	1.679	2.656	3.7	18.7	11 27	3 53.93	+11 9.6	1.563	2.539	4.2	19.1
12 7	3 44.29	+30 3.2	1.704	2.660	6.4	18.9	12 7	3 44.27	+10 36.6	1.601	2.546	7.9	19.3
12 17	3 36.29	+29 47.5	1.756	2.664	10.0	19.1	12 17	3 36.35	+10 17.4	1.666	2.554	11.8	19.6
12 27	3 30.86	+29 29.1	1.832	2.669	13.4	19.3	12 27	3 30.93	+10 13.5	1.753	2.561	15.2	19.8
359819	2011 <i>UY</i> ₂₈₁		11 23.6 102°46	4°5/25.4	18		441215	2007 <i>VP</i> ₄₂		11 23.6 33°39	7°5/27.9	17	
10 18	4 31.11	+31 47.8	1.993	2.770	15.2	21.4	10 18	4 27.32	+39 59.4	1.438	2.220	19.9	20.7
10 28	4 24.95	+32 37.1	1.921	2.784	12.3	21.2	10 28	4 22.97	+40 13.6	1.381	2.236	16.5	20.5
11 7	4 16.04	+33 15.1	1.872	2.797	8.9	21.0	11 7	4 15.07	+40 2.8	1.341	2.253	12.8	20.4
11 17	4 5.13	+33 37.9	1.848	2.809	5.8	20.8	11 17	4 4.74	+39 23.0	1.322	2.270	9.3	20.2
11 27	3 53.43	+33 43.7	1.853	2.822	4.6	20.8	11 27	3 53.72	+38 14.6	1.329	2.289	7.5	20.2
12 7	3 42.30	+33 34.2	1.886	2.834	6.6	20.9	12 7	3 43.82	+36 44.2	1.361	2.308	8.8	20.3
12 17	3 32.95	+33 13.5	1.948	2.847	9.8	21.2	12 17	3 36.48	+35 2.3	1.418	2.328	11.8	20.5
12 27	3 26.25	+32 47.6	2.034	2.858	12.8	21.4	12 27	3 32.51	+33 20.5	1.498	2.348	15.2	20.8
6947	Andrewdavis		11 23.6 218°87	1°2/23.1	18		60605	2000 <i>EZ</i> ₁₆₇		11 23.6 120°12	2°0/22.7	18	
10 18	4 26.23	+19 46.8	1.711	2.530	15.7	18.3	10 18	4 23.12	+14 6.8	2.447	3.256	11.8	19.2
10 28	4 21.32	+19 15.6	1.630	2.527	12.1	18.1	10 28	4 18.06	+14 0.8	2.370	3.261	9.1	19.0
11 7	4 13.73	+18 37.3	1.570	2.523	7.8	17.8	11 7	4 11.21	+13 54.8	2.317	3.266	5.9	18.9
11 17	4 4.21	+17 53.9	1.537	2.520	3.2	17.6	11 17	4 3.10	+13 50.1	2.292	3.271	2.9	18.7
11 27	3 53.90	+17 8.9	1.532	2.516	2.3	17.5	11 27	3 54.51	+13 48.3	2.296	3.276	2.5	18.7
12 7	3 44.13	+16 27.1	1.555	2.511	6.9	17.8	12 7	3 46.29	+13 51.1	2.331	3.280	5.5	18.9
12 17	3 36.03	+15 53.0	1.605	2.507	11.3	18.0	12 17	3 39.18	+13 59.8	2.395	3.285	8.6	19.1
12 27	3 30.49	+15 30.3	1.678	2.502	15.1	18.3	12 27	3 33.81	+14 15.2	2.484	3.290	11.3	19.3
16963	1998 <i>RE</i> ₂		11 23.6 356°91	5°5/21.1	18		367036	2006 <i>DP</i> ₁₈		11 23.6 197°63	4°2/21.3	17	
10 18	4 21.31	+ 6 15.7	1.973	2.793	13.8	17.4	10 18	4 21.55	+ 8 2.1	2.487	3.296	11.7	21.9
10 28	4 17.05	+ 5 35.4	1.901	2.792	10.9	17.2	10 28	4 16.82	+ 7 26.4	2.408	3.295	9.1	21.7
11 7	4 10.72	+ 5 0.1	1.851	2.791	8.0	17.0	11 7	4 10.39	+ 6 53.5	2.353	3.293	6.5	21.5
11 17	4 2.93	+ 4 33.8	1.828	2.790	5.8	16.9	11 17	4 2.77	+ 6 26.4	2.326	3.292	4.4	21.4
11 27	3 54.57	+ 4 20.5	1.832	2.790	6.0	16.9	11 27	3 54.69	+ 6 8.0	2.328	3.290	4.6	21.4
12 7	3 46.64	+ 4 22.5	1.864	2.790	8.5	17.1	12 7	3 46.93	+ 6 0.5	2.360	3.288	6.8	21.6
12 17	3 40.00	+ 4 40.5	1.921	2.790	11.5	17.2	12 17	3 40.22	+ 6 5.2	2.419	3.285	9.5	21.7
12 27	3 35.35	+ 5 13.8	2.001	2.790	14.3	17.4	12 27	3 35.15	+ 6 21.9	2.502	3.283	12.0	21.9
391634	2007 <i>VS</i> ₁₇₈		11 23.6 320°81	2°3/23.9	17		41216	1999 <i>XG</i> ₅					

EPHEMERIDES

11 23.6

11 23.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
3580	Avery		11 23.6 281°84	1.7°/24.4	18		404980	1999 XH ₁₄₅		11 23.6 56°89	1°0°/23.0	18	
10 18	4 24.98	+26 0.8	2.150	2.949	13.6	17.7	10 18	4 22.33	+20 46.1	2.070	2.884	13.5	20.8
10 28	4 20.22	+26 5.3	2.043	2.925	10.7	17.5	10 28	4 17.78	+20 0.2	1.995	2.890	10.3	20.6
11 7	4 13.04	+26 1.4	1.958	2.901	7.3	17.2	11 7	4 11.16	+19 7.1	1.944	2.896	6.6	20.4
11 17	4 3.99	+25 48.0	1.899	2.877	3.6	16.9	11 17	4 3.13	+18 9.3	1.920	2.903	2.7	20.1
11 27	3 54.02	+25 25.5	1.870	2.853	2.1	16.8	11 27	3 54.62	+17 10.5	1.926	2.909	1.9	20.1
12 7	3 44.25	+24 56.3	1.869	2.828	5.6	17.0	12 7	3 46.62	+16 15.2	1.960	2.916	5.8	20.3
12 17	3 35.77	+24 24.1	1.897	2.803	9.5	17.2	12 17	3 40.00	+15 27.7	2.023	2.922	9.4	20.6
12 27	3 29.49	+23 53.8	1.950	2.779	13.1	17.3	12 27	3 35.40	+14 51.1	2.110	2.929	12.6	20.8
152820	1999 UF ₁₉		11 23.6 132°71	0°0°/23.6	18		445681	2011 UW ₁₂₆		11 23.6 103°14	2°9°/24.8	18	
10 18	4 23.59	+21 23.7	2.293	3.098	12.6	20.5	10 18	4 30.39	+27 38.4	2.037	2.825	14.6	21.3
10 28	4 18.62	+21 13.4	2.213	3.103	9.7	20.3	10 28	4 24.16	+28 13.5	1.968	2.841	11.5	21.1
11 7	4 11.66	+20 57.7	2.157	3.107	6.3	20.1	11 7	4 15.41	+28 39.7	1.921	2.858	7.9	21.0
11 17	4 3.31	+20 37.2	2.129	3.111	2.6	19.9	11 17	4 4.89	+28 54.7	1.902	2.874	4.4	20.8
11 27	3 54.43	+20 13.6	2.130	3.115	1.3	19.8	11 27	3 53.71	+28 57.8	1.911	2.890	3.0	20.7
12 7	3 45.97	+19 49.6	2.161	3.119	5.1	20.1	12 7	3 43.12	+28 50.7	1.950	2.906	5.8	20.9
12 17	3 38.77	+19 28.1	2.220	3.122	8.6	20.3	12 17	3 34.19	+28 37.0	2.018	2.921	9.2	21.2
12 27	3 33.49	+19 12.0	2.305	3.126	11.6	20.5	12 27	3 27.70	+28 21.4	2.111	2.936	12.3	21.4
166084	2002 CF ₁₁₇		11 23.6 155°25	3°2°/22.1	18		333811	2011 WA ₆₄		11 23.6 107°76	1°4°/24.3	18	
10 18	4 26.28	+12 32.9	2.155	2.964	13.2	21.3	10 18	4 24.64	+25 44.5	1.859	2.668	15.0	20.7
10 28	4 20.62	+11 58.8	2.081	2.972	10.2	21.1	10 28	4 20.00	+25 34.7	1.779	2.668	11.7	20.5
11 7	4 12.91	+11 24.6	2.032	2.979	6.8	20.9	11 7	4 12.85	+25 14.6	1.721	2.668	7.8	20.3
11 17	4 3.80	+10 53.0	2.010	2.986	3.8	20.7	11 17	4 3.89	+24 44.3	1.689	2.669	3.6	20.0
11 27	3 54.19	+10 27.2	2.018	2.992	3.8	20.8	11 27	3 54.23	+24 5.6	1.685	2.670	1.9	19.9
12 7	3 45.06	+10 10.1	2.056	2.997	6.7	21.0	12 7	3 45.10	+23 22.2	1.710	2.670	5.9	20.2
12 17	3 37.26	+10 3.5	2.122	3.002	10.0	21.2	12 17	3 37.57	+22 39.3	1.762	2.671	9.9	20.4
12 27	3 31.47	+10 8.4	2.212	3.006	12.9	21.4	12 27	3 32.46	+22 1.7	1.838	2.672	13.5	20.6
148613	2001 RV ₁₀₉		11 23.6 288°16	2°1°/24.4	18		283105	2008 UD ₂₁₀		11 23.6 138°22	0°5°/23.4	18	
10 18	4 27.11	+25 31.2	1.546	2.363	17.2	20.1	10 18	4 27.50	+21 9.4	2.013	2.818	14.1	21.9
10 28	4 22.69	+25 45.3	1.456	2.349	13.6	19.9	10 28	4 21.76	+20 41.1	1.940	2.830	10.8	21.7
11 7	4 15.06	+25 49.7	1.387	2.335	9.2	19.6	11 7	4 13.75	+20 6.0	1.891	2.841	7.0	21.5
11 17	4 4.92	+25 42.6	1.342	2.321	4.5	19.3	11 17	4 4.19	+19 25.5	1.869	2.851	2.8	21.2
11 27	3 53.56	+25 24.0	1.324	2.307	2.6	19.1	11 27	3 54.11	+18 42.4	1.876	2.861	1.7	21.2
12 7	3 42.59	+24 56.8	1.332	2.293	7.1	19.3	12 7	3 44.63	+18 0.7	1.914	2.870	5.8	21.5
12 17	3 33.52	+24 26.4	1.367	2.280	12.0	19.6	12 17	3 36.68	+17 24.5	1.979	2.878	9.6	21.7
12 27	3 27.48	+23 59.1	1.424	2.266	16.2	19.8	12 27	3 30.97	+16 57.1	2.070	2.886	12.9	21.9
415468	2014 NZ ₄₃		11 23.6 175°40	2°0°/24.9	18		328406	2008 SR ₅₄		11 23.6 134°66	2°1°/22.2	18	
10 18	4 25.12	+29 37.0	2.356	3.140	13.0	21.3	10 18	4 21.45	+14 42.8	2.743	3.549	10.8	21.9
10 28	4 19.82	+29 12.0	2.269	3.142	10.2	21.1	10 28	4 16.57	+14 7.7	2.668	3.559	8.2	21.8
11 7	4 12.44	+28 35.1	2.206	3.143	7.0	20.9	11 7	4 10.14	+13 31.2	2.619	3.568	5.4	21.6
11 17	4 3.63	+27 46.1	2.169	3.144	3.7	20.7	11 17	4 2.68	+12 55.3	2.599	3.577	2.7	21.4
11 27	3 54.31	+26 46.9	2.162	3.144	2.2	20.6	11 27	3 54.87	+12 22.6	2.609	3.586	2.6	21.4
12 7	3 45.47	+25 41.6	2.186	3.144	5.0	20.8	12 7	3 47.43	+11 55.7	2.650	3.594	5.2	21.6
12 17	3 38.01	+24 35.3	2.239	3.144	8.4	21.0	12 17	3 40.99	+11 36.5	2.719	3.602	8.0	21.8
12 27	3 32.57	+23 33.0	2.319	3.144	11.4	21.2	12 27	3 36.06	+11 26.3	2.814	3.610	10.4	22.0
260711	2005 JU ₁₄₇		11 23.6 163°93	5°8°/20.6	18		166177	2002 EA ₆₄		11 23.6 165°89	0°7°/23.3	18	
10 18	4 23.87	+ 4 12.1	2.272	3.076	12.8	21.7	10 18	4 26.36	+20 9.5	1.961	2.772	14.3	21.1
10 28	4 18.67	+ 3 22.8	2.201	3.081	10.2	21.5	10 28	4 21.05	+19 46.2	1.882	2.775	11.0	20.9
11 7	4 11.61	+ 2 38.8	2.155	3.084	7.6	21.4	11 7	4 13.40	+19 16.8	1.827	2.778	7.1	20.6
11 17	4 3.28	+ 2 4.4	2.135	3.088	5.9	21.3	11 17	4 4.09	+18 42.8	1.798	2.780	2.9	20.4
11 27	3 54.49	+ 1 43.3	2.144	3.091	6.2	21.3	11 27	3 54.16	+18 6.9	1.798	2.782	1.8	20.3
12 7	3 46.11	+ 1 37.9	2.182	3.093	8.3	21.4	12 7	3 44.74	+17 32.6	1.827	2.784	6.0	20.6
12 17	3 38.93	+ 1 48.7	2.246	3.095	10.8	21.6	12 17	3 36.82	+17 3.9	1.885	2.785	10.0	20.8
12 27	3 33.55	+ 2 14.9	2.334	3.097	13.2	21.8	12 27	3 31.17	+16 43.9	1.967	2.786	13.4	21.1
90333	2003 FW ₉₂		11 23.6 228°83	3°4°/21.8	18		253605	2003 UV ₂₄		11 23.6 255°57	2°9°/24.8	18	
10 18	4 22.84	+11 17.2	2.354	3.165	12.2	20.3	10 18	4 28.77	+28 21.0	1.512	2.322	17.8	20.6
10 28	4 17.99	+10 42.0	2.267	3.157	9.4	20.1	10 28	4 24.02	+28 24.0	1.427	2.314	14.2	20.3
11 7	4 11.25	+10 7.2	2.203	3.149	6.4	19.9	11 7	4 15.93	+28 13.2	1.361	2.305	9.8	20.0
11 17	4 3.18	+ 9 35.6	2.168	3.141	3.9	19.7	11 17	4 5.29	+27 46.3	1.320	2.296	5.1	19.7
11 27	3 54.54	+ 9 10.2	2.162	3.132	4.0	19.7	11 27	3 53.51	+27 4.0	1.305	2.287	3.1	19.6
12 7	3 46.21	+ 8 53.9	2.185	3.123	6.6	19.9	12 7	3 42.30	+26 10.7	1.317	2.278	7.2	19.8
12 17	3 39.00	+ 8 48.6	2.236	3.113	9.7	20.0	12 17	3 33.15	+25 13.6	1.355	2.268	12.0	20.1
12 27	3 33.55	+ 8 55.0	2.312	3.104	12.5	20.2	12 27	3 27.18	+24 20.9	1.416	2.259	16.3	20.3
131120	2001 BY ₄		11 23.6 307°81	7°2°/21.3	18		16478	1990 QS ₆		11 23.6 8°63	2°5°/24.3	18	
10 18	4 24.95	+ 3 28.2	1.627	2.449	16.2	19.1	10 18	4 25.41	+24 50.2	1.062	1.909	21.2	17.7
10 28	4 20.42	+ 2 55.0	1.549	2.437	13.1	18.9	10 28	4 22.27	+25 15.1	1.001	1.910	16.7	17.4
11 7	4 13.24	+ 2 30.6	1.491	2.426	9.9	18.6	11 7	4 15.17	+25 29.0	0.956	1.911	11.2	17.1
11 17	4 4.09	+ 2 20.2	1.458	2.416	7.5	18.5	11 17	4 5.05	+25 29.2	0.933	1.914	5.4	16.8
11 27	3 54.07	+ 2 28.5	1.451	2.405	7.7	18.5	11 27	3 53.68	+25 16.1	0.934	1.918	3.0	16.7
12 7	3 44.45	+ 2 57.5	1.470	2.395	10.4	18.6	12 7	3 43.18	+24 53.7	0.958	1.923	8.4	17.0
12 17	3 36.40	+ 3 46.7	1.514	2.385	13.9	18.8	12 17	3 35.34	+24 28.9	1.005	1.928	14.0	17.3
12 27	3 30.85	+ 4 53.6	1.580	2.375	17.2	19.0	12 27	3 31.32	+24 8.7	1.071	1.935	18.8	17.6
196825	2003 SV ₂₃₅		11 23.6 166°03	0°4°/23.4	18		141515	2002 EU ₉₇		11 23.6 85°31	5°1°/21.1	18	

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11 23.6

11 23.7

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
344344	2001 <i>WB</i> ₂₆	11 23.6 268°19		0°7/23.9 18			190227	2006 <i>DV</i> ₂₀₁	11 23.6 113°50		9°1/19.2 18		
10 18	4 28.90	+21 30.4	1.761	2.571	15.6	21.0	10 18	4 22.80	- 9 7.8	2.436	3.205	13.0	19.7
10 28	4 23.74	+21 50.2	1.662	2.553	12.2	20.8	10 28	4 17.74	- 9 59.1	2.380	3.212	11.3	19.6
11 7	4 15.64	+22 5.6	1.586	2.535	8.1	20.5	11 7	4 10.99	-10 36.4	2.346	3.218	9.8	19.5
11 17	4 5.22	+22 15.4	1.535	2.516	3.5	20.2	11 17	4 3.11	-10 54.8	2.337	3.225	9.1	19.5
11 27	3 53.60	+22 19.4	1.512	2.497	1.7	20.0	11 27	3 54.85	-10 51.1	2.354	3.232	9.4	19.5
12 7	3 42.20	+22 19.1	1.518	2.477	6.6	20.3	12 7	3 47.01	-10 24.4	2.397	3.238	10.5	19.6
12 17	3 32.39	+22 17.7	1.551	2.458	11.3	20.5	12 17	3 40.29	- 9 36.1	2.463	3.245	12.1	19.7
12 27	3 25.27	+22 19.0	1.608	2.438	15.3	20.7	12 27	3 35.25	- 8 29.4	2.552	3.251	13.8	19.9
268019	2004 <i>NC</i> ₁₅	11 23.6 31°37 14°8/		2.4 17			117737	2005 <i>GX</i> ₂₂	11 23.6 148°95		2°1/22.9 18		
10 18	4 35.00	+51 11.5	0.972	1.739	28.3	20.2	10 18	4 30.14	+15 29.9	1.613	2.432	16.5	19.9
10 28	4 31.73	+51 52.4	0.916	1.744	25.1	20.0	10 28	4 24.41	+15 24.9	1.541	2.437	12.7	19.6
11 7	4 22.21	+51 50.0	0.871	1.749	21.4	19.8	11 7	4 15.83	+15 18.8	1.491	2.442	8.3	19.4
11 17	4 8.00	+50 50.2	0.840	1.755	17.7	19.6	11 17	4 5.20	+15 13.0	1.466	2.447	3.7	19.1
11 27	3 52.38	+48 46.6	0.829	1.762	15.2	19.5	11 27	3 53.77	+15 9.6	1.470	2.452	2.9	19.1
12 7	3 38.99	+45 48.6	0.838	1.770	15.1	19.5	12 7	3 42.95	+15 11.1	1.502	2.456	7.3	19.4
12 17	3 30.27	+42 18.8	0.868	1.777	17.4	19.7	12 17	3 33.98	+15 19.7	1.560	2.459	11.7	19.6
12 27	3 27.16	+38 44.6	0.919	1.786	20.9	19.9	12 27	3 27.74	+15 37.1	1.642	2.463	15.5	19.9
324188	2006 <i>AJ</i> ₆₁	11 23.6 197°30		4°0/20.9 18			208796	2002 <i>QC</i> ₇₁	11 23.6 326°75		2°0/22.8 18		
10 18	4 21.44	+ 5 47.8	3.131	3.927	9.8	22.2	10 18	4 23.88	+16 49.9	1.682	2.509	15.5	20.7
10 28	4 16.43	+ 5 14.4	3.047	3.923	7.7	22.0	10 28	4 19.61	+16 26.0	1.603	2.504	12.0	20.4
11 7	4 10.04	+ 4 44.2	2.988	3.919	5.7	21.9	11 7	4 12.74	+15 58.4	1.545	2.499	7.8	20.2
11 17	4 2.70	+ 4 19.9	2.957	3.914	4.2	21.8	11 17	4 3.96	+15 29.5	1.513	2.495	3.5	19.9
11 27	3 54.97	+ 4 3.8	2.957	3.909	4.4	21.8	11 27	3 54.39	+15 2.6	1.508	2.490	2.9	19.9
12 7	3 47.49	+ 3 57.7	2.987	3.903	6.1	21.9	12 7	3 45.29	+14 41.4	1.532	2.486	7.1	20.1
12 17	3 40.83	+ 4 2.4	3.046	3.897	8.2	22.0	12 17	3 37.80	+14 29.3	1.581	2.482	11.4	20.4
12 27	3 35.47	+ 4 18.0	3.130	3.890	10.3	22.2	12 27	3 32.78	+14 28.5	1.653	2.479	15.1	20.6
446444	2014 <i>JL</i> ₄₇	11 23.6 47°84		3°9/22.0 18			105350	2000 <i>QN</i> ₁₀₀	11 23.6 71°69		1°8/24.4 18		
10 18	4 24.01	+11 30.6	1.785	2.609	14.9	20.7	10 18	4 26.23	+25 20.3	1.989	2.791	14.4	19.4
10 28	4 19.36	+10 58.4	1.716	2.614	11.5	20.5	10 28	4 21.08	+25 37.0	1.914	2.799	11.2	19.2
11 7	4 12.37	+10 27.5	1.669	2.618	7.8	20.3	11 7	4 13.51	+25 45.9	1.862	2.807	7.5	19.0
11 17	4 3.73	+10 1.1	1.648	2.623	4.5	20.1	11 17	4 4.23	+25 45.9	1.836	2.814	3.7	18.8
11 27	3 54.48	+ 9 43.0	1.655	2.628	4.5	20.1	11 27	3 54.28	+25 37.4	1.839	2.822	2.1	18.7
12 7	3 45.76	+ 9 36.1	1.690	2.633	7.7	20.3	12 7	3 44.83	+25 22.6	1.871	2.830	5.6	19.0
12 17	3 38.55	+ 9 41.9	1.751	2.638	11.4	20.5	12 17	3 36.93	+25 5.0	1.931	2.838	9.3	19.2
12 27	3 33.61	+10 0.8	1.835	2.643	14.6	20.7	12 27	3 31.34	+24 48.7	2.015	2.846	12.6	19.4
36731	2000 <i>RR</i> ₅₀	11 23.6 205°79		0°1/23.7 18			447658	2006 <i>WX</i> ₁₅	11 23.7 299°32		2°6/24.6 17		
10 18	4 28.87	+22 49.5	1.624	2.438	16.6	17.7	10 18	4 26.20	+26 21.5	1.871	2.675	15.1	21.7
10 28	4 23.62	+22 27.8	1.542	2.435	12.9	17.4	10 28	4 21.59	+26 51.5	1.774	2.658	12.0	21.5
11 7	4 15.42	+21 56.4	1.481	2.432	8.4	17.2	11 7	4 14.21	+27 14.0	1.698	2.641	8.3	21.2
11 17	4 5.05	+21 16.0	1.446	2.428	3.5	16.9	11 17	4 4.66	+27 26.7	1.648	2.624	4.4	21.0
11 27	3 53.79	+20 29.2	1.438	2.423	1.7	16.7	11 27	3 54.02	+27 28.6	1.626	2.608	2.8	20.8
12 7	3 43.11	+19 41.2	1.459	2.418	6.8	17.0	12 7	3 43.62	+27 20.9	1.632	2.591	6.3	21.0
12 17	3 34.29	+18 57.6	1.507	2.413	11.5	17.3	12 17	3 34.74	+27 7.2	1.666	2.575	10.4	21.2
12 27	3 28.29	+18 23.7	1.578	2.407	15.6	17.6	12 27	3 28.41	+26 52.4	1.723	2.559	14.2	21.4
325758	2009 <i>WM</i> ₁₉₀	11 23.6 104°50		0°5/23.4 18			371898	2008 <i>CR</i> ₁₃₃	11 23.7 315°69		3°4/24.8 18		
10 18	4 23.15	+19 39.6	2.411	3.216	12.1	21.1	10 18	4 26.83	+27 29.2	1.291	2.117	19.4	20.9
10 28	4 18.18	+19 30.9	2.335	3.225	9.2	20.9	10 28	4 23.14	+27 51.5	1.209	2.106	15.4	20.6
11 7	4 11.37	+19 18.3	2.283	3.233	6.0	20.7	11 7	4 15.75	+28 1.3	1.147	2.095	10.7	20.3
11 17	4 3.28	+19 2.7	2.259	3.241	2.4	20.5	11 17	4 5.41	+27 55.3	1.107	2.084	5.7	20.0
11 27	3 54.72	+18 45.6	2.265	3.249	1.4	20.4	11 27	3 53.68	+27 32.9	1.092	2.074	3.6	19.8
12 7	3 46.57	+18 29.3	2.301	3.257	4.9	20.7	12 7	3 42.48	+26 57.6	1.102	2.064	8.0	20.1
12 17	3 39.60	+18 16.2	2.366	3.265	8.2	20.9	12 17	3 33.57	+26 16.4	1.137	2.055	13.2	20.3
12 27	3 34.42	+18 8.5	2.456	3.273	11.1	21.1	12 27	3 28.21	+25 37.7	1.192	2.047	17.9	20.6
175627	2007 <i>RE</i> ₈₁	11 23.6 134°79		6°6/27.6 18			409764	2006 <i>DO</i> ₁₀₁	11 23.7 292°70		0°7/23.3 17		
10 18	4 31.08	+40 24.9	1.983	2.731	16.3	20.5	10 18	4 22.87	+19 15.0	2.165	2.977	13.0	21.8
10 28	4 25.20	+40 43.2	1.904	2.737	13.6	20.4	10 28	4 18.44	+19 6.3	2.067	2.961	10.1	21.6
11 7	4 16.35	+40 42.2	1.846	2.744	10.7	20.2	11 7	4 11.83	+18 53.4	1.993	2.944	6.6	21.3
11 17	4 5.38	+40 17.8	1.811	2.750	8.0	20.0	11 17	4 3.60	+18 37.3	1.945	2.927	2.7	21.1
11 27	3 53.68	+39 29.1	1.803	2.756	6.6	20.0	11 27	3 54.62	+18 19.5	1.926	2.910	1.7	21.0
12 7	3 42.72	+38 19.5	1.824	2.762	7.7	20.1	12 7	3 45.89	+18 2.8	1.937	2.894	5.7	21.2
12 17	3 33.79	+36 56.4	1.871	2.767	10.3	20.2	12 17	3 38.36	+17 49.9	1.975	2.877	9.5	21.4
12 27	3 27.75	+35 28.7	1.944	2.772	13.1	20.4	12 27	3 32.83	+17 43.4	2.038	2.861	12.8	21.6
414025	2007 <i>LO</i> ₁₅	11 23.6 195°12		4°6/20.1 18			153373	2001 <i>QR</i> ₁₄	11 23.7 25°91		1°3/24.0 18		
10 18	4 21.12	+ 8 44.8	2.579	3.388	11.3	21.7	10 18	4 25.64	+22 43.6	1.088	1.936	20.8	18.9
10 28	4 16.46	+ 7 24.5	2.500	3.387	8.9	21.5	10 28	4 22.08	+23 3.8	1.037	1.948	16.1	18.7
11 7	4 10.17	+ 6 4.5	2.447	3.385	6.4	21.4	11 7	4 14.81	+23 15.1	1.005	1.961	10.6	18.4
11 17	4 2.78	+ 4 49.2	2.422	3.383	4.7	21.3	11 17	4 4.88	+23 16.4	0.994	1.976	4.6	18.2
11 27	3 54.98	+ 3 43.2	2.428	3.381	5.1	21.3	11 27	3 54.05	+23 8.7	1.006	1.992	2.3	18.1
12 7	3 47.53	+ 2 50.5	2.463	3.378	7.3	21.4	12 7	3 44.23	+22 56.1	1.044	2.008	7.9	18.5
12 17	3 41.09	+ 2 13.2	2.526	3.375	9.8	21.6	12 17	3 36.99	+22 43.7	1.104	2.026	13.2	18.8
12 27	3 36.21	+ 1 52.4	2.613	3.372	12.1	21.8	12 27	3 33.28	+22 36.9	1.185	2.045	17.6	19.1
330811	2008 <i>VK</i> ₂₇	11 23.6 162°38		0°1/23.7 17			157160	2004 <i>PA</i> ₃₂	11 23.7 130°66		0°		

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
7308	Hattori		11 23.7 167°03	2°2/25.0	18		201303	2002 TJ ₁₂		11 23.7 89°55	2°9/25.0	17	
10 18	4 24.00	+29 18.3	2.400	3.185	12.7	17.8	10 18	4 25.92	+28 55.3	2.427	3.210	12.7	20.2
10 28	4 19.05	+29 10.1	2.314	3.186	10.0	17.6	10 28	4 20.57	+29 26.7	2.347	3.216	10.0	20.0
11 7	4 12.06	+28 51.4	2.251	3.187	6.9	17.4	11 7	4 13.10	+29 50.0	2.289	3.222	7.1	19.9
11 17	4 3.63	+28 21.6	2.215	3.188	3.7	17.2	11 17	4 4.10	+30 3.1	2.259	3.228	4.1	19.7
11 27	3 54.66	+27 42.0	2.209	3.189	2.4	17.1	11 27	3 54.47	+30 5.5	2.258	3.235	3.0	19.6
12 7	3 46.12	+26 55.4	2.232	3.190	5.0	17.3	12 7	3 45.22	+29 58.6	2.287	3.241	5.2	19.8
12 17	3 38.87	+26 6.3	2.284	3.190	8.2	17.5	12 17	3 37.25	+29 45.2	2.344	3.247	8.2	20.0
12 27	3 33.59	+25 19.1	2.363	3.191	11.1	17.7	12 27	3 31.28	+29 29.3	2.428	3.253	10.9	20.2
327661	2006 QO ₉₂		11 23.7 11°89	6°6/21.4	18		389035	2008 UN ₃₅₄		11 23.7 83°41	1°2/23.2	18	
10 18	4 23.18	+10 29.6	1.124	1.979	19.8	19.9	10 18	4 27.39	+18 15.1	1.657	2.478	16.0	20.8
10 28	4 19.90	+9 22.8	1.067	1.980	15.5	19.7	10 28	4 22.18	+18 3.5	1.592	2.490	12.3	20.6
11 7	4 13.28	+8 17.4	1.029	1.983	10.8	19.4	11 7	4 14.31	+17 48.0	1.549	2.502	7.9	20.4
11 17	4 4.26	+7 20.9	1.013	1.986	7.1	19.2	11 17	4 4.61	+17 29.9	1.531	2.513	3.3	20.2
11 27	3 54.36	+6 41.5	1.020	1.990	7.4	19.3	11 27	3 54.26	+17 11.6	1.541	2.525	2.2	20.1
12 7	3 45.28	+6 24.5	1.052	1.995	11.3	19.5	12 7	3 44.58	+16 56.4	1.580	2.537	6.7	20.4
12 17	3 38.42	+6 31.9	1.105	2.001	15.8	19.8	12 17	3 36.68	+16 47.4	1.645	2.548	10.9	20.7
12 27	3 34.73	+7 2.2	1.177	2.007	19.8	20.1	12 27	3 31.35	+16 47.0	1.733	2.559	14.5	21.0
276895	2004 RH ₃₄₆		11 23.7 95°29	0°1/23.6	18		523445	2017 FV ₁₀		11 23.7 10°16	5°9/20.3	18	
10 18	4 29.33	+20 58.7	1.712	2.525	15.9	21.2	10 18	4 21.10	+6 34.7	2.023	2.843	13.6	21.4
10 28	4 23.52	+20 51.5	1.651	2.544	12.2	21.0	10 28	4 16.89	+5 24.5	1.953	2.843	10.7	21.2
11 7	4 15.09	+20 38.2	1.611	2.562	7.9	20.8	11 7	4 10.69	+4 17.4	1.907	2.844	7.9	21.0
11 17	4 4.87	+20 19.2	1.598	2.580	3.2	20.6	11 17	4 3.10	+3 18.8	1.887	2.845	6.0	20.9
11 27	3 54.09	+19 56.8	1.613	2.598	1.6	20.5	11 27	3 55.00	+2 33.8	1.895	2.846	6.5	21.0
12 7	3 44.06	+19 34.2	1.657	2.615	6.3	20.9	12 7	3 47.34	+2 6.1	1.930	2.847	8.8	21.1
12 17	3 35.86	+19 15.2	1.728	2.633	10.4	21.2	12 17	3 40.94	+1 57.3	1.991	2.848	11.6	21.3
12 27	3 30.25	+19 3.3	1.823	2.649	13.9	21.4	12 27	3 36.45	+2 7.0	2.074	2.849	14.3	21.5
153626	2001 TF ₄₄		11 23.7 56°84	3°6/25.2	18		51768	2001 LQ ₁₆		11 23.7 35°10	3°8/22.3	18	
10 18	4 30.33	+29 48.0	1.368	2.179	19.3	18.6	10 18	4 23.98	+12 33.3	1.563	2.396	16.3	18.1
10 28	4 24.99	+29 55.7	1.317	2.203	15.2	18.5	10 28	4 19.62	+12 4.3	1.503	2.406	12.5	17.9
11 7	4 16.31	+29 47.5	1.286	2.228	10.5	18.3	11 7	4 12.67	+11 36.2	1.464	2.416	8.4	17.7
11 17	4 5.39	+29 21.4	1.278	2.252	5.7	18.1	11 17	4 3.94	+11 12.4	1.450	2.427	4.6	17.5
11 27	3 53.87	+28 39.2	1.297	2.277	3.7	18.0	11 27	3 54.60	+10 56.7	1.463	2.439	4.4	17.6
12 7	3 43.47	+27 46.6	1.342	2.302	7.2	18.3	12 7	3 45.91	+10 52.1	1.503	2.451	8.0	17.8
12 17	3 35.51	+26 51.3	1.413	2.327	11.5	18.6	12 17	3 38.95	+11 0.1	1.568	2.463	11.9	18.1
12 27	3 30.79	+26 0.9	1.506	2.352	15.3	18.9	12 27	3 34.49	+11 21.2	1.656	2.476	15.4	18.3
478606	2012 TN ₁₄₁		11 23.7 101°67	2°0/22.8	18		171126	2005 GT ₂₃		11 23.7 192°41	0°5/23.9	18	
10 18	4 28.58	+16 51.9	1.730	2.547	15.6	22.0	10 18	4 27.83	+21 27.4	2.232	3.030	13.2	20.6
10 28	4 22.82	+16 23.5	1.670	2.566	11.9	21.8	10 28	4 22.11	+21 41.0	2.144	3.029	10.2	20.4
11 7	4 14.57	+15 51.8	1.632	2.584	7.7	21.6	11 7	4 14.15	+21 50.3	2.080	3.027	6.7	20.2
11 17	4 4.64	+15 19.2	1.621	2.602	3.4	21.4	11 17	4 4.56	+21 54.6	2.044	3.025	2.8	19.9
11 27	3 54.22	+14 48.9	1.638	2.619	2.8	21.4	11 27	3 54.25	+21 54.5	2.037	3.022	1.4	19.8
12 7	3 44.52	+14 24.7	1.684	2.637	6.8	21.6	12 7	3 44.30	+21 51.4	2.061	3.019	5.3	20.1
12 17	3 36.58	+14 9.5	1.757	2.653	10.8	21.9	12 17	3 35.66	+21 47.9	2.114	3.015	9.0	20.3
12 27	3 31.11	+14 5.4	1.854	2.670	14.2	22.2	12 27	3 29.12	+21 46.8	2.192	3.012	12.2	20.5
331253	2011 CH ₄		11 23.7 324°50	5°5/21.3	17		363424	2003 RB ₂₃		11 23.7 40°71	0°9/24.2	18	
10 18	4 22.12	+5 30.1	2.067	2.882	13.5	20.2	10 18	4 24.08	+26 36.7	1.724	2.537	15.8	19.6
10 28	4 17.72	+4 59.2	1.988	2.875	10.7	20.0	10 28	4 19.45	+25 53.8	1.669	2.560	12.2	19.4
11 7	4 11.27	+4 33.9	1.932	2.869	7.9	19.8	11 7	4 12.38	+24 58.5	1.635	2.584	8.0	19.2
11 17	4 3.35	+4 17.9	1.902	2.862	5.7	19.6	11 17	4 3.75	+23 52.7	1.628	2.608	3.5	19.0
11 27	3 54.82	+4 14.7	1.899	2.856	5.9	19.6	11 27	3 54.73	+22 40.6	1.648	2.633	1.6	18.9
12 7	3 46.65	+4 26.2	1.925	2.851	8.3	19.8	12 7	3 46.54	+21 28.3	1.697	2.658	5.8	19.2
12 17	3 39.69	+4 52.9	1.977	2.845	11.2	19.9	12 17	3 40.11	+20 21.9	1.773	2.683	9.8	19.5
12 27	3 34.67	+5 33.8	2.052	2.840	14.0	20.1	12 27	3 36.09	+19 26.2	1.874	2.709	13.2	19.8
460419	2014 SL ₁₄₁		11 23.7 49°31	5°4/25.8	18		377972	2006 MF ₁₀		11 23.7 134°68	1°0/23.2	16	
10 18	4 29.48	+33 34.6	1.992	2.767	15.3	20.7	10 18	4 32.38	+19 15.7	2.158	2.951	13.7	24.2
10 28	4 23.86	+34 35.8	1.925	2.782	12.4	20.5	10 28	4 25.23	+18 48.1	2.090	2.973	10.5	24.0
11 7	4 15.49	+35 24.9	1.879	2.798	9.3	20.3	11 7	4 15.91	+18 15.5	2.047	2.994	6.7	23.8
11 17	4 5.12	+35 57.5	1.859	2.813	6.5	20.2	11 17	4 5.16	+17 39.2	2.033	3.014	2.8	23.6
11 27	3 53.94	+36 11.5	1.866	2.829	5.4	20.2	11 27	3 54.01	+17 2.0	2.050	3.033	1.9	23.6
12 7	3 43.32	+36 8.1	1.902	2.845	7.0	20.3	12 7	3 43.52	+16 27.3	2.098	3.050	5.7	23.9
12 17	3 34.45	+35 51.2	1.965	2.862	9.8	20.5	12 17	3 34.60	+15 58.5	2.175	3.066	9.3	24.1
12 27	3 28.22	+35 27.1	2.052	2.878	12.6	20.7	12 27	3 27.88	+15 38.4	2.279	3.081	12.3	24.4
100107	1993 FH ₃₉		11 23.7 165°18	1°4/22.9	18		4636	Chile		11 23.7 27°41	9°0/19.5	18	
10 18	4 23.79	+17 30.4	2.135	2.948	13.2	20.1	10 18	4 21.61	+3 57.1	1.398	2.236	17.5	16.1
10 28	4 18.97	+17 13.0	2.054	2.948	10.1	19.9	10 28	4 17.94	+2 14.6	1.348	2.244	14.1	15.9
11 7	4 12.06	+16 52.3	1.998	2.949	6.6	19.6	11 7	4 11.62	+0 39.8	1.319	2.254	11.0	15.8
11 17	4 3.67	+16 30.0	1.968	2.950	2.8	19.4	11 17	4 3.52	+0 38.2	1.314	2.264	9.1	15.7
11 27	3 54.70	+16 8.4	1.968	2.950	2.1	19.4	11 27	3 54.84	+1 31.2	1.333	2.274	9.8	15.7
12 7	3 46.13	+15 50.1	1.996	2.951	5.8	19.6	12 7	3 46.89	+1 55.0	1.377	2.286	12.3	15.9
12 17	3 38.86	+15 37.9	2.053	2.951	9.4	19.8	12 17	3 40.73	+1 49.4	1.443	2.298	15.4	16.1
12 27	3 33.59	+15 33.7	2.135	2.951	12.5	20.0	12 27	3 37.10	+1 17.6	1.528	2.311	18.2	16.4
91567	1999 RU ₂₃₉		11 23.7 46°98	4°4/21.5	18		41413	2000 AF ₂₁₀		11 23.7 49°66	0°4/23.5	18	
10 18	4 22.18	+9 43.2	2.030	2.850</									

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
240391	2003 <i>UJ</i> ₃₄		11 23.7 173°35'	1.8°/22.7	18		165637	2001 <i>FA</i> ₁₈₈		11 23.7 321°60'	0°0'/23.7	18	
10 18	4 25.17	+18 31.8	1.990	2.804	14.0	20.9	10 18	4 24.86	+21 15.1	1.628	2.452	16.1	20.7
10 28	4 20.12	+17 42.2	1.911	2.805	10.7	20.7	10 28	4 20.63	+21 8.8	1.546	2.445	12.5	20.4
11 7	4 12.84	+16 46.5	1.855	2.807	7.0	20.5	11 7	4 13.60	+20 55.8	1.485	2.438	8.2	20.2
11 17	4 4.01	+15 47.4	1.827	2.808	3.1	20.3	11 17	4 4.47	+20 36.5	1.449	2.431	3.4	19.9
11 27	3 54.60	+14 49.3	1.827	2.809	2.6	20.2	11 27	3 54.42	+20 12.9	1.440	2.425	1.7	19.7
12 7	3 45.70	+13 56.6	1.858	2.809	6.4	20.5	12 7	3 44.83	+19 48.5	1.459	2.419	6.7	20.0
12 17	3 38.24	+13 13.8	1.916	2.809	10.2	20.7	12 17	3 36.96	+19 27.7	1.504	2.414	11.3	20.3
12 27	3 32.93	+12 43.7	1.998	2.809	13.5	20.9	12 27	3 31.74	+19 14.4	1.571	2.409	15.2	20.5
128209	2003 <i>SS</i> ₆₅		11 23.7 14°42'	1°0'/23.1	17 R		39830	1998 <i>BS</i> ₆		11 23.7 106°67'	2°8'/22.7	18 R	
10 18	4 19.16	+17 47.1	2.576	3.388	11.2	19.3	10 18	4 29.63	+15 37.8	1.506	2.331	17.2	18.5
10 28	4 15.11	+17 33.8	2.498	3.392	8.5	19.1	10 28	4 24.03	+15 6.2	1.446	2.345	13.2	18.3
11 7	4 9.41	+17 17.9	2.444	3.396	5.5	18.9	11 7	4 15.58	+14 32.1	1.406	2.359	8.6	18.1
11 17	4 2.58	+17 0.6	2.418	3.400	2.3	18.7	11 17	4 5.17	+13 58.3	1.392	2.372	4.1	17.9
11 27	3 55.31	+16 43.9	2.422	3.405	1.7	18.7	11 27	3 54.13	+13 29.0	1.406	2.386	3.6	17.9
12 7	3 48.37	+16 29.7	2.455	3.410	4.8	18.9	12 7	3 43.87	+13 8.0	1.447	2.399	7.8	18.2
12 17	3 42.45	+16 20.0	2.517	3.415	7.8	19.1	12 17	3 35.60	+12 58.5	1.514	2.411	12.2	18.4
12 27	3 38.10	+16 16.5	2.604	3.421	10.5	19.3	12 27	3 30.12	+13 2.1	1.603	2.423	15.8	18.7
429125	2009 <i>SX</i> ₃₂₉		11 23.7 69°11'	4°2'/24.9	18		94960	2001 <i>YU</i> ₉₇		11 23.7 171°93'	1°0'/23.2	18	
10 18	4 36.49	+28 14.7	1.383	2.187	19.5	20.3	10 18	4 28.05	+18 36.0	1.998	2.806	14.2	20.4
10 28	4 29.76	+29 9.2	1.335	2.217	15.3	20.1	10 28	4 22.40	+18 23.5	1.918	2.809	10.9	20.2
11 7	4 19.48	+29 51.0	1.308	2.246	10.6	19.9	11 7	4 14.38	+18 6.8	1.861	2.811	7.1	20.0
11 17	4 6.76	+30 15.7	1.304	2.276	6.1	19.7	11 17	4 4.69	+17 47.2	1.832	2.813	2.9	19.8
11 27	3 53.33	+30 21.5	1.328	2.306	4.3	19.7	11 27	3 54.34	+17 26.6	1.831	2.815	1.9	19.7
12 7	3 41.04	+30 11.5	1.378	2.335	7.6	20.0	12 7	3 44.46	+17 7.9	1.861	2.816	6.0	20.0
12 17	3 31.38	+29 51.7	1.455	2.364	11.7	20.3	12 17	3 36.06	+16 54.1	1.918	2.816	9.9	20.2
12 27	3 25.21	+29 29.8	1.555	2.392	15.4	20.6	12 27	3 29.91	+16 48.0	2.000	2.816	13.3	20.4
71621	2000 <i>EC</i> ₄₇		11 23.7 301°44'	2°1'/24.7	18		98888	2001 <i>BW</i> ₃₄		11 23.7 344°66'	3°9'/22.4	18	
10 18	4 23.76	+26 52.0	2.245	3.041	13.2	19.2	10 18	4 22.42	+13 10.7	1.350	2.195	17.6	19.3
10 28	4 19.16	+27 4.2	2.152	3.032	10.4	19.0	10 28	4 19.10	+12 43.7	1.277	2.187	13.7	19.0
11 7	4 12.34	+27 8.2	2.082	3.023	7.1	18.8	11 7	4 12.77	+12 16.7	1.223	2.179	9.2	18.7
11 17	4 3.88	+27 3.0	2.039	3.014	3.7	18.6	11 17	4 4.18	+11 53.4	1.193	2.172	4.9	18.5
11 27	3 54.69	+26 48.8	2.024	3.006	2.3	18.5	11 27	3 54.59	+11 38.3	1.189	2.166	4.7	18.5
12 7	3 45.81	+26 27.7	2.039	2.998	5.3	18.7	12 7	3 45.52	+11 35.2	1.209	2.162	8.9	18.7
12 17	3 38.21	+26 3.0	2.082	2.989	8.8	18.9	12 17	3 38.33	+11 46.4	1.254	2.158	13.6	18.9
12 27	3 32.68	+25 38.9	2.150	2.981	11.9	19.1	12 27	3 33.99	+12 12.6	1.319	2.155	17.7	19.2
281900	2011 <i>CP</i> ₁₇		11 23.7 262°89'	0°0'/23.7	18		216874	2008 <i>EC</i> ₆		11 23.7 351°90'	3°2'/22.5	18	
10 18	4 23.09	+21 6.6	2.397	3.201	12.2	21.5	10 18	4 24.37	+12 32.4	1.785	2.609	14.9	20.4
10 28	4 18.38	+21 0.6	2.303	3.191	9.4	21.3	10 28	4 19.81	+12 16.8	1.709	2.607	11.5	20.2
11 7	4 11.70	+20 49.7	2.232	3.181	6.1	21.0	11 7	4 12.83	+12 2.2	1.655	2.606	7.7	19.9
11 17	4 3.59	+20 34.3	2.190	3.172	2.5	20.8	11 17	4 4.10	+11 51.2	1.627	2.605	4.1	19.7
11 27	3 54.84	+20 15.9	2.176	3.161	1.3	20.7	11 27	3 54.65	+11 46.5	1.627	2.604	3.9	19.7
12 7	3 46.38	+19 56.6	2.193	3.151	5.0	20.9	12 7	3 45.64	+11 50.5	1.655	2.603	7.3	19.9
12 17	3 39.04	+19 39.3	2.239	3.141	8.5	21.1	12 17	3 38.14	+12 4.7	1.709	2.603	11.2	20.1
12 27	3 33.54	+19 26.7	2.310	3.131	11.6	21.3	12 27	3 32.93	+12 29.6	1.786	2.603	14.6	20.4
514147	2015 <i>KN</i> ₄₂		11 23.7 249°01'	0°4'/23.8	18		148054	1998 <i>SB</i> ₁₃₇		11 23.7 47°29'	2°5'/23.0	18	
10 18	4 29.23	+21 8.3	1.641	2.456	16.4	21.9	10 18	4 29.63	+15 39.7	1.144	1.988	20.3	19.5
10 28	4 24.09	+21 20.5	1.553	2.447	12.8	21.7	10 28	4 24.53	+15 30.5	1.104	2.013	15.5	19.3
11 7	4 15.94	+21 27.5	1.487	2.438	8.4	21.4	11 7	4 16.06	+15 20.1	1.083	2.040	10.0	19.1
11 17	4 5.46	+21 28.7	1.446	2.428	3.5	21.1	11 17	4 5.36	+15 10.8	1.085	2.067	4.4	18.8
11 27	3 53.88	+21 24.4	1.433	2.418	1.7	20.9	11 27	3 54.12	+15 5.5	1.112	2.094	3.5	18.9
12 7	3 42.70	+21 17.1	1.448	2.408	6.8	21.2	12 7	3 44.06	+15 7.4	1.165	2.122	8.4	19.2
12 17	3 33.29	+21 10.2	1.490	2.398	11.5	21.5	12 17	3 36.50	+15 18.4	1.241	2.151	13.2	19.6
12 27	3 26.70	+21 7.9	1.555	2.387	15.6	21.7	12 27	3 32.21	+15 39.8	1.339	2.179	17.2	19.9
304164	2006 <i>PN</i> ₁₀		11 23.7 66°26'	3°6'/22.0	18		242830	Richardwessling		11 23.7 312°51'	5°1'/20.8	18	
10 18	4 23.88	+13 22.4	1.805	2.629	14.8	20.6	10 18	4 21.10	+ 7 23.8	2.194	3.010	12.8	20.4
10 28	4 19.29	+12 36.9	1.735	2.634	11.4	20.4	10 28	4 16.81	+ 6 28.9	2.118	3.007	10.1	20.2
11 7	4 12.38	+11 50.2	1.688	2.639	7.6	20.2	11 7	4 10.64	+ 5 36.8	2.066	3.005	7.3	20.0
11 17	4 3.85	+11 6.0	1.667	2.643	4.2	20.0	11 17	4 3.14	+ 4 51.7	2.040	3.002	5.3	19.9
11 27	3 54.74	+10 28.6	1.674	2.648	4.2	20.0	11 27	3 55.14	+ 4 17.8	2.043	3.000	5.6	19.9
12 7	3 46.16	+10 2.0	1.708	2.653	7.6	20.2	12 7	3 47.50	+ 3 58.2	2.074	2.997	7.9	20.0
12 17	3 39.09	+ 9 48.6	1.770	2.658	11.2	20.5	12 17	3 41.02	+ 3 54.3	2.132	2.995	10.7	20.2
12 27	3 34.25	+ 9 49.7	1.854	2.662	14.5	20.7	12 27	3 36.34	+ 4 6.2	2.213	2.993	13.4	20.4
319266	2006 <i>BL</i> ₂₂		11 23.7 199°49'	0°1'/23.7	17		172254	2002 <i>SY</i> ₈		11 23.7 127°55'	2°3'/22.6	18	
10 18	4 23.19	+21 45.3	2.712	3.509	11.1	22.0	10 18	4 25.00	+15 32.9	1.934	2.751	14.2	20.6
10 28	4 18.16	+21 34.1	2.621	3.506	8.6	21.8	10 28	4 20.06	+15 5.4	1.860	2.756	10.9	20.4
11 7	4 11.41	+21 17.7	2.555	3.502	5.6	21.6	11 7	4 12.86	+14 35.7	1.808	2.760	7.1	20.2
11 17	4 3.43	+20 56.8	2.517	3.499	2.3	21.4	11 17	4 4.07	+14 6.2	1.784	2.764	3.4	20.0
11 27	3 54.95	+20 32.7	2.510	3.495	1.1	21.3	11 27	3 54.69	+13 39.9	1.788	2.767	3.0	20.0
12 7	3 46.77	+20 7.8	2.533	3.491	4.5	21.5	12 7	3 45.79	+13 20.0	1.820	2.771	6.6	20.2
12 17	3 39.62	+19 44.6	2.586	3.486	7.6	21.7	12 17	3 38.34	+13 9.1	1.880	2.775	10.3	20.4
12 27	3 34.11	+19 25.8	2.666	3.481	10.4	21.9	12 27	3 33.06	+13 9.0	1.965	2.778	13.6	20.7
316535	2010 <i>WA</i> ₃₄		11 23.7 181°94'	0°5'/23.4	18		134099	Rexengelhardt		11			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
513601	2011 <i>FB</i> ₈₂		11 23.7 202°75	0°4/23.9	18		414942	2011 <i>BX</i> ₄₅		11 23.7 256°24	4°2/21.7	17	
10 18	4 28.89	+22 21.2	1.850	2.656	15.2	22.3	10 18	4 22.60	+7 33.2	2.428	3.236	11.9	21.5
10 28	4 23.40	+22 18.0	1.764	2.653	11.8	22.1	10 28	4 17.85	+7 9.2	2.342	3.227	9.4	21.3
11 7	4 15.24	+22 7.9	1.701	2.650	7.8	21.8	11 7	4 11.30	+6 48.7	2.280	3.219	6.7	21.1
11 17	4 5.12	+21 50.6	1.664	2.646	3.3	21.5	11 17	4 3.45	+6 34.5	2.245	3.210	4.5	21.0
11 27	3 54.16	+21 27.5	1.656	2.641	1.5	21.4	11 27	3 55.04	+6 29.3	2.239	3.202	4.6	21.0
12 7	3 43.65	+21 1.8	1.677	2.636	6.1	21.7	12 7	3 46.92	+6 35.0	2.263	3.193	6.9	21.1
12 17	3 34.77	+20 37.5	1.726	2.630	10.4	21.9	12 17	3 39.84	+6 52.3	2.314	3.184	9.7	21.3
12 27	3 28.40	+20 18.9	1.799	2.624	14.1	22.2	12 27	3 34.44	+7 21.1	2.390	3.176	12.3	21.4
13474	<i>V</i> ' _{yus}		11 23.7 39°40	6°1/26.5	18 R		393742	2005 <i>CT</i> ₆₀		11 23.7 317°45	2°8/22.7	18	
10 18	4 29.80	+34 48.4	1.269	2.074	20.8	16.8	10 18	4 24.13	+14 56.2	1.546	2.379	16.4	20.8
10 28	4 24.98	+35 13.1	1.225	2.102	16.8	16.6	10 28	4 20.19	+14 37.8	1.462	2.366	12.7	20.5
11 7	4 16.49	+35 16.2	1.200	2.130	12.3	16.5	11 7	4 13.41	+14 17.8	1.400	2.354	8.4	20.3
11 17	4 5.56	+34 54.2	1.197	2.160	8.0	16.3	11 17	4 4.47	+13 58.8	1.362	2.342	4.1	20.0
11 27	3 54.04	+34 8.0	1.219	2.190	6.1	16.3	11 27	3 54.53	+13 44.0	1.350	2.331	3.6	19.9
12 7	3 43.82	+33 4.2	1.265	2.221	8.2	16.5	12 7	3 44.99	+13 37.0	1.366	2.320	7.9	20.2
12 17	3 36.31	+31 52.4	1.337	2.252	12.0	16.8	12 17	3 37.12	+13 40.6	1.406	2.309	12.5	20.4
12 27	3 32.29	+30 42.6	1.431	2.283	15.6	17.1	12 27	3 31.92	+13 56.3	1.469	2.299	16.5	20.6
114603	2003 <i>CY</i> ₁₂		11 23.7 10°22	1°0/23.9	18		383492	2007 <i>BK</i> ₅₀		11 23.7 332°21	0°7/23.9	18	
10 18	4 26.03	+21 31.2	1.195	2.037	19.7	19.2	10 18	4 24.62	+22 4.9	1.252	2.092	19.0	20.7
10 28	4 22.37	+21 57.9	1.130	2.038	15.3	19.0	10 28	4 21.36	+22 13.0	1.173	2.081	14.9	20.4
11 7	4 15.14	+22 18.7	1.085	2.041	10.1	18.7	11 7	4 14.59	+22 13.2	1.114	2.070	9.9	20.1
11 17	4 5.20	+22 32.1	1.062	2.044	4.3	18.4	11 17	4 5.06	+22 5.1	1.077	2.060	4.2	19.7
11 27	3 54.13	+22 38.2	1.063	2.048	2.1	18.2	11 27	3 54.22	+21 49.8	1.065	2.051	2.0	19.5
12 7	3 43.79	+22 39.4	1.090	2.054	7.8	18.6	12 7	3 43.89	+21 31.1	1.078	2.042	7.9	19.9
12 17	3 35.80	+22 39.9	1.140	2.060	13.1	18.9	12 17	3 35.72	+21 14.1	1.115	2.035	13.4	20.2
12 27	3 31.25	+22 44.2	1.212	2.068	17.6	19.2	12 27	3 30.92	+21 4.3	1.173	2.028	18.1	20.4
284270	2006 <i>HY</i> ₈₈		11 23.7 222°80	3°8/20.9	18		271946	2005 <i>AF</i> ₄		11 23.7 301°32	10°3/19.9	17	
10 18	4 20.71	+9 47.2	2.817	3.623	10.5	21.2	10 18	4 25.84	-11 50.2	2.243	3.000	14.3	20.3
10 28	4 16.13	+8 46.8	2.729	3.616	8.2	21.0	10 28	4 20.44	-12 23.6	2.168	2.988	12.7	20.1
11 7	4 10.03	+7 46.3	2.667	3.607	5.8	20.9	11 7	4 13.02	-12 39.8	2.113	2.976	11.2	20.0
11 17	4 2.87	+6 49.2	2.633	3.599	4.0	20.7	11 17	4 4.17	-12 33.3	2.082	2.963	10.4	19.9
11 27	3 55.29	+5 59.1	2.630	3.590	4.3	20.8	11 27	3 54.71	-12 0.4	2.077	2.951	10.6	19.9
12 7	3 47.98	+5 19.1	2.656	3.581	6.3	20.9	12 7	3 45.62	-11 0.6	2.097	2.939	11.8	20.0
12 17	3 41.56	+4 51.3	2.711	3.571	8.8	21.0	12 17	3 37.73	-9 36.1	2.142	2.928	13.6	20.1
12 27	3 36.58	+4 36.8	2.791	3.561	11.1	21.2	12 27	3 31.75	-7 51.4	2.209	2.916	15.5	20.2
460729	2014 <i>VU</i> ₁₂		11 23.7 352°84	2°1/23.9	17		226989	2004 <i>XU</i> ₅₄		11 23.7 100°54	1°3/24.5	18	
10 18	4 32.75	+20 55.8	1.883	2.683	15.2	20.1	10 18	4 23.59	+26 50.5	2.308	3.103	12.9	20.0
10 28	4 26.62	+22 25.5	1.795	2.678	11.9	19.8	10 28	4 18.78	+26 30.2	2.227	3.108	10.0	19.8
11 7	4 17.57	+23 56.2	1.730	2.674	8.0	19.6	11 7	4 11.93	+26 0.2	2.170	3.113	6.7	19.7
11 17	4 6.19	+25 23.7	1.693	2.671	3.9	19.3	11 17	4 3.70	+25 20.8	2.139	3.117	3.2	19.4
11 27	3 53.60	+26 43.5	1.686	2.668	2.6	19.2	11 27	3 54.96	+24 33.9	2.138	3.122	1.6	19.3
12 7	3 41.19	+27 52.8	1.710	2.666	6.4	19.5	12 7	3 46.69	+23 43.2	2.167	3.127	4.9	19.6
12 17	3 30.33	+28 51.5	1.763	2.665	10.4	19.7	12 17	3 39.73	+22 52.8	2.225	3.131	8.3	19.8
12 27	3 22.12	+29 42.1	1.842	2.665	14.0	20.0	12 27	3 34.72	+22 7.2	2.308	3.136	11.3	20.0
192122	2006 <i>DB</i> ₅₃		11 23.7 142°98	3°7/25.9	17		267656	2002 <i>TP</i> ₆₆		11 23.7 10°24	22°9/7.3	16	
10 18	4 25.69	+33 12.4	2.504	3.272	12.7	21.0	10 18	4 33.18	+57 37.1	0.857	1.613	32.1	20.3
10 28	4 20.43	+33 29.9	2.420	3.276	10.3	20.9	10 28	4 33.35	+60 7.0	0.813	1.613	29.8	20.1
11 7	4 13.05	+33 36.1	2.358	3.280	7.5	20.7	11 7	4 25.46	+61 53.4	0.779	1.615	27.5	19.9
11 17	4 4.16	+33 29.2	2.323	3.283	4.9	20.5	11 17	4 10.24	+62 36.7	0.755	1.618	25.2	19.8
11 27	3 54.67	+33 8.8	2.316	3.286	3.8	20.5	11 27	3 51.71	+62 0.8	0.744	1.623	23.5	19.7
12 7	3 45.60	+32 37.1	2.340	3.290	5.4	20.6	12 7	3 35.64	+60 6.0	0.747	1.629	22.9	19.7
12 17	3 37.83	+31 57.8	2.392	3.293	8.1	20.7	12 17	3 26.17	+57 9.6	0.764	1.637	23.5	19.8
12 27	3 32.08	+31 15.9	2.470	3.296	10.7	20.9	12 27	3 24.57	+53 38.9	0.798	1.646	25.0	19.9
60606	2000 <i>EC</i> ₁₇₁		11 23.7 33°25	6°1/21.5	18		281177	2007 <i>EG</i> ₇₃		11 23.7 235°75	1°4/23.1	18	
10 18	4 24.78	+5 22.7	1.800	2.618	15.1	18.7	10 18	4 27.69	+18 4.9	1.851	2.664	14.9	21.8
10 28	4 19.99	+4 47.9	1.731	2.620	12.0	18.5	10 28	4 22.50	+17 48.2	1.760	2.654	11.5	21.6
11 7	4 12.88	+4 19.5	1.684	2.621	8.8	18.3	11 7	4 14.70	+17 27.2	1.692	2.643	7.5	21.3
11 17	4 4.12	+4 2.0	1.662	2.623	6.4	18.2	11 17	4 4.95	+17 3.2	1.649	2.631	3.2	21.0
11 27	3 54.72	+3 59.3	1.668	2.625	6.5	18.2	11 27	3 54.32	+16 38.6	1.636	2.619	2.3	20.9
12 7	3 45.82	+4 13.3	1.701	2.627	9.1	18.4	12 7	3 44.04	+16 16.9	1.651	2.607	6.7	21.2
12 17	3 38.39	+4 44.2	1.759	2.630	12.3	18.6	12 17	3 35.28	+16 1.4	1.694	2.594	10.9	21.4
12 27	3 33.19	+5 30.3	1.840	2.632	15.2	18.8	12 27	3 28.93	+15 55.1	1.761	2.580	14.7	21.6
220539	2004 <i>FO</i> ₇₅		11 23.7 36°68	1°5/24.3	18		229047	2004 <i>FP</i> ₂₈		11 23.7 180°61	0°9/23.3	18	
10 18	4 27.25	+24 46.8	1.308	2.137	19.0	20.5	10 18	4 28.80	+19 14.4	1.898	2.707	14.8	21.6
10 28	4 22.97	+24 47.6	1.244	2.144	14.8	20.3	10 28	4 23.14	+18 59.9	1.817	2.708	11.4	21.4
11 7	4 15.31	+24 37.1	1.200	2.151	9.9	20.0	11 7	4 14.98	+18 40.5	1.759	2.709	7.4	21.1
11 17	4 5.21	+24 14.7	1.178	2.159	4.5	19.7	11 17	4 5.01	+18 17.1	1.727	2.709	3.0	20.9
11 27	3 54.20	+23 42.2	1.183	2.168	2.2	19.6	11 27	3 54.32	+17 52.1	1.725	2.709	1.9	20.8
12 7	3 44.02	+23 4.7	1.213	2.176	7.3	19.9	12 7	3 44.11	+17 28.6	1.752	2.708	6.3	21.1
12 17	3 36.11	+22 28.4	1.269	2.186	12.3	20.3	12 17	3 35.47	+17 10.1	1.806	2.706	10.3	21.3
12 27	3 31.45	+21 59.4	1.346	2.195	16.6	20.5	12 27	3 29.22	+16 59.8	1.885	2.704	13.9	21.5
473297	2015 <i>RW</i> ₁₀		11 23.7 142°07	4°1/25.9	18		473594	2015 <i>XR</i> ₂₄₅ </					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
77123	2001 <i>DX</i> ₈₈		11 23.7 189°88	1°0/23.2	18		390925	2005 <i>EQ</i> ₂₈₄		11 23.7 95°55	1°7/22.9	18	
10 18	4 25.93	+18 55.8	2.041	2.851	13.8	20.6	10 18	4 25.97	+17 56.5	1.942	2.755	14.3	21.4
10 28	4 20.78	+18 36.0	1.959	2.851	10.6	20.4	10 28	4 20.69	+17 21.2	1.878	2.772	10.9	21.3
11 7	4 13.37	+18 11.6	1.899	2.850	6.9	20.2	11 7	4 13.20	+16 41.5	1.837	2.788	7.0	21.1
11 17	4 4.33	+17 43.8	1.867	2.849	2.9	19.9	11 17	4 4.23	+16 0.0	1.823	2.804	3.1	20.9
11 27	3 54.65	+17 15.2	1.863	2.847	1.9	19.9	11 27	3 54.81	+15 20.0	1.838	2.820	2.5	20.8
12 7	3 45.40	+16 48.8	1.890	2.845	5.9	20.1	12 7	3 46.00	+14 45.3	1.883	2.836	6.2	21.1
12 17	3 37.55	+16 28.1	1.944	2.843	9.8	20.3	12 17	3 38.71	+14 19.1	1.955	2.851	9.9	21.4
12 27	3 31.84	+16 15.7	2.023	2.840	13.1	20.6	12 27	3 33.60	+14 3.7	2.051	2.866	13.0	21.6
220196	2002 <i>VH</i> ₂₀		11 23.7 55°36	1°0/23.9	18		41321	1999 <i>XM</i> ₂₀₉		11 23.7 41°58	1°5/23.9	18	
10 18	4 33.48	+21 29.2	1.213	2.041	20.2	19.4	10 18	4 34.50	+19 55.7	1.630	2.437	16.9	17.6
10 28	4 27.54	+21 58.7	1.170	2.070	15.5	19.2	10 28	4 27.72	+21 13.3	1.578	2.466	13.0	17.4
11 7	4 18.07	+22 21.3	1.147	2.100	10.1	19.0	11 7	4 18.01	+22 28.4	1.549	2.496	8.5	17.2
11 17	4 6.24	+22 35.2	1.147	2.129	4.3	18.7	11 17	4 6.25	+23 37.3	1.546	2.526	3.8	17.0
11 27	3 53.81	+22 40.8	1.174	2.159	2.0	18.7	11 27	3 53.82	+24 36.9	1.573	2.557	2.1	17.0
12 7	3 42.58	+22 40.9	1.227	2.189	7.4	19.1	12 7	3 42.18	+25 26.3	1.630	2.588	6.3	17.3
12 17	3 33.99	+22 39.9	1.305	2.219	12.3	19.4	12 17	3 32.60	+26 7.2	1.714	2.620	10.4	17.6
12 27	3 28.84	+22 42.4	1.405	2.248	16.3	19.8	12 27	3 25.90	+26 42.8	1.823	2.652	13.8	17.9
377044	2002 <i>TH</i> ₄₄		11 23.7 55°57	0°2/23.8	18		334205	2001 <i>SL</i> ₂₉₉		11 23.7 342°18	6°3/25.8	18	
10 18	4 30.84	+21 11.1	1.222	2.055	19.9	20.7	10 18	4 27.68	+32 47.1	1.359	2.168	19.5	20.6
10 28	4 25.53	+21 16.6	1.175	2.078	15.2	20.5	10 28	4 23.90	+33 38.1	1.282	2.161	15.9	20.4
11 7	4 16.79	+21 14.7	1.148	2.102	9.9	20.3	11 7	4 16.35	+34 13.9	1.223	2.156	11.9	20.1
11 17	4 5.74	+21 5.5	1.144	2.127	4.0	20.0	11 17	4 5.84	+34 28.6	1.187	2.151	7.9	19.9
11 27	3 54.05	+20 51.0	1.166	2.152	1.9	19.9	11 27	3 53.94	+34 19.2	1.175	2.146	6.3	19.8
12 7	3 43.49	+20 35.3	1.214	2.176	7.5	20.4	12 7	3 42.63	+33 47.9	1.189	2.143	8.8	19.9
12 17	3 35.43	+20 22.9	1.287	2.201	12.4	20.7	12 17	3 33.68	+33 1.7	1.226	2.140	12.9	20.2
12 27	3 30.69	+20 17.9	1.382	2.227	16.5	21.0	12 27	3 28.35	+32 10.5	1.285	2.137	17.0	20.4
264790	2002 <i>NU</i> ₈		11 23.7 61°68	7°5/20.6	18		159800	2003 <i>RQ</i> ₁₅		11 23.7 3°99	5°4/20.7	18	
10 18	4 23.27	- 1 48.1	2.149	2.946	13.6	20.3	10 18	4 19.65	+ 9 55.9	1.757	2.590	14.7	18.9
10 28	4 18.31	- 2 30.1	2.097	2.963	11.2	20.2	10 28	4 16.15	+ 8 41.1	1.689	2.590	11.5	18.7
11 7	4 11.51	- 3 1.1	2.068	2.979	9.0	20.1	11 7	4 10.43	+ 7 26.8	1.643	2.590	8.1	18.5
11 17	4 3.50	- 3 16.7	2.064	2.995	7.6	20.0	11 17	4 3.16	+ 6 18.8	1.624	2.591	5.7	18.4
11 27	3 55.12	- 3 13.7	2.087	3.012	7.9	20.0	11 27	3 55.32	+ 5 23.2	1.631	2.593	6.1	18.4
12 7	3 47.25	- 2 51.3	2.137	3.028	9.5	20.2	12 7	3 47.96	+ 4 44.6	1.666	2.596	8.9	18.6
12 17	3 40.65	- 2 10.4	2.213	3.045	11.6	20.4	12 17	3 42.03	+ 4 25.6	1.725	2.599	12.2	18.8
12 27	3 35.88	- 1 13.8	2.311	3.062	13.7	20.5	12 27	3 38.21	+ 4 26.3	1.806	2.604	15.2	19.0
365047	2008 <i>UA</i> ₃₂₈		11 23.7 194°39	0°5/24.0	17		189409	1992 <i>SC</i> ₁₀		11 23.7 96°67	0°4/23.5	18	
10 18	4 22.44	+24 11.6	2.457	3.257	12.1	21.3	10 18	4 24.12	+20 17.6	2.428	3.230	12.1	21.3
10 28	4 17.79	+23 50.2	2.371	3.256	9.3	21.2	10 28	4 18.92	+20 2.1	2.360	3.248	9.2	21.1
11 7	4 11.27	+23 21.2	2.309	3.256	6.1	21.0	11 7	4 11.90	+19 42.2	2.316	3.265	5.9	21.0
11 17	4 3.45	+22 45.2	2.275	3.255	2.6	20.7	11 17	4 3.68	+19 18.7	2.300	3.282	2.4	20.8
11 27	3 55.13	+22 4.4	2.270	3.255	1.2	20.6	11 27	3 55.07	+18 53.7	2.314	3.299	1.4	20.7
12 7	3 47.18	+21 21.7	2.295	3.254	4.7	20.9	12 7	3 46.93	+18 29.6	2.359	3.315	4.8	21.0
12 17	3 40.39	+20 40.9	2.350	3.254	8.1	21.1	12 17	3 40.00	+18 9.1	2.432	3.331	8.0	21.2
12 27	3 35.40	+20 5.3	2.430	3.253	11.0	21.3	12 27	3 34.86	+17 54.5	2.531	3.347	10.8	21.4
319960	2007 <i>BB</i> ₇₄		11 23.7 112°20	4°5/26.1	17		38048	1998 <i>UL</i> ₁₈		11 23.7 85°34	16°2/23.9	18	
10 18	4 26.98	+34 21.2	2.208	2.978	14.2	21.3	10 18	4 39.68	-14 59.2	1.163	1.937	24.1	17.9
10 28	4 21.75	+34 43.3	2.126	2.982	11.5	21.1	10 28	4 32.39	-15 26.0	1.114	1.946	21.3	17.7
11 7	4 14.08	+34 52.3	2.066	2.985	8.5	20.9	11 7	4 21.33	-15 17.9	1.082	1.955	18.6	17.6
11 17	4 4.66	+34 45.6	2.031	2.989	5.7	20.8	11 17	4 7.65	-14 24.7	1.068	1.964	16.6	17.5
11 27	3 54.53	+34 22.6	2.025	2.992	4.5	20.7	11 27	3 53.17	-12 42.0	1.077	1.973	16.3	17.5
12 7	3 44.89	+33 45.7	2.047	2.996	6.2	20.8	12 7	3 39.88	-10 14.6	1.108	1.982	17.7	17.6
12 17	3 36.78	+32 59.5	2.097	2.999	9.0	21.0	12 17	3 29.32	- 7 14.4	1.162	1.991	20.1	17.8
12 27	3 30.99	+32 10.0	2.173	3.002	11.9	21.2	12 27	3 22.46	- 3 55.6	1.236	1.999	22.8	18.1
167178	2003 <i>SF</i> ₂₇₂		11 23.7 151°25	7°6/27.6	18		203193	2001 <i>CC</i> ₃₅		11 23.7 268°61	3°9/22.6	18	
10 18	4 33.13	+41 35.5	2.019	2.757	16.3	20.7	10 18	4 28.21	+ 9 28.8	1.794	2.609	15.2	19.5
10 28	4 27.07	+42 22.3	1.940	2.762	13.8	20.5	10 28	4 22.85	+ 9 30.8	1.711	2.603	11.9	19.3
11 7	4 17.85	+42 51.0	1.880	2.767	11.1	20.4	11 7	4 14.92	+ 9 37.8	1.651	2.597	8.2	19.0
11 17	4 6.28	+42 56.3	1.844	2.771	8.7	20.2	11 17	4 5.07	+ 9 51.9	1.617	2.591	4.7	18.8
11 27	3 53.75	+42 35.3	1.835	2.775	7.6	20.2	11 27	3 54.36	+10 14.9	1.611	2.585	4.4	18.8
12 7	3 41.85	+41 50.1	1.853	2.779	8.5	20.2	12 7	3 44.04	+10 47.9	1.634	2.579	7.7	19.0
12 17	3 32.00	+40 46.8	1.897	2.782	10.7	20.4	12 17	3 35.22	+11 30.7	1.684	2.573	11.6	19.2
12 27	3 25.17	+39 34.2	1.966	2.785	13.4	20.6	12 27	3 28.81	+12 22.9	1.758	2.567	15.1	19.4
222065	1998 <i>XZ</i> ₂₂		11 23.7 56°58	0°2/23.6	18		140556	2001 <i>TY</i> ₂₀₃		11 23.7 146°32	3°9/25.4	18	
10 18	4 24.47	+19 58.2	2.082	2.892	13.6	20.3	10 18	4 30.05	+30 58.8	2.221	2.996	14.0	20.4
10 28	4 19.55	+20 0.3	2.012	2.904	10.4	20.1	10 28	4 24.08	+31 39.9	2.140	3.002	11.2	20.2
11 7	4 12.50	+19 58.4	1.966	2.917	6.7	19.9	11 7	4 15.61	+32 11.1	2.081	3.007	8.1	20.0
11 17	4 3.97	+19 52.8	1.947	2.929	2.7	19.7	11 17	4 5.32	+32 29.4	2.049	3.013	5.1	19.9
11 27	3 54.91	+19 45.0	1.957	2.942	1.4	19.6	11 27	3 54.25	+32 33.5	2.046	3.018	3.9	19.8
12 7	3 46.33	+19 37.0	1.996	2.954	5.4	19.9	12 7	3 43.59	+32 24.5	2.072	3.022	6.0	20.0
12 17	3 39.14	+19 31.4	2.063	2.967	9.0	20.1	12 17	3 34.45	+32 6.0	2.127	3.027	9.0	20.2
12 27	3 34.02	+19 30.5	2.155	2.980	12.1	20.4	12 27	3 27.64	+31 43.1	2.208	3.031	11.9	20.4
377545	2005 <i>HP</i> ₆		11 23.7 110°05	2°4/23.4	18		3						

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
328765	2009 <i>UL</i> ₉₉		11 23.7 353°06	2°0/22.6	18		519877	2013 <i>NX</i> ₃₁		11 23.7 186°69	6°8/19.7	18	
10 18	4 21.57	+17 14.0	2.083	2.902	13.3	21.0	10 18	4 21.09	- 0 35.3	2.520	3.316	11.9	21.7
10 28	4 17.37	+16 32.6	2.003	2.901	10.2	20.8	10 28	4 16.57	- 1 32.1	2.450	3.316	9.8	21.6
11 7	4 11.13	+15 46.9	1.947	2.899	6.6	20.6	11 7	4 10.42	- 2 21.2	2.404	3.316	7.9	21.5
11 17	4 3.44	+14 59.5	1.918	2.898	3.0	20.3	11 17	4 3.15	- 2 58.2	2.385	3.315	6.8	21.4
11 27	3 55.20	+14 14.2	1.917	2.898	2.7	20.3	11 27	3 55.45	- 3 19.4	2.393	3.315	7.2	21.4
12 7	3 47.37	+13 34.7	1.946	2.897	6.2	20.5	12 7	3 48.08	- 3 22.7	2.428	3.314	8.7	21.5
12 17	3 40.82	+13 4.4	2.002	2.897	9.7	20.8	12 17	3 41.72	- 3 8.0	2.490	3.313	10.8	21.7
12 27	3 36.23	+12 45.6	2.082	2.897	12.9	21.0	12 27	3 36.92	- 2 36.5	2.574	3.312	12.8	21.8
21513	Bethcochran		11 23.7 346°10	4°1/22.1	18		165658	2001 <i>LX</i> ₅		11 23.7 178°29	1°3/23.1	18	
10 18	4 24.25	+15 13.6	1.289	2.134	18.4	17.4	10 18	4 25.84	+18 24.5	2.173	2.980	13.2	21.2
10 28	4 20.59	+14 14.6	1.220	2.130	14.2	17.2	10 28	4 20.58	+17 58.0	2.091	2.981	10.1	21.0
11 7	4 13.78	+13 10.7	1.171	2.127	9.5	16.9	11 7	4 13.19	+17 27.2	2.032	2.982	6.6	20.8
11 17	4 4.66	+12 7.0	1.145	2.124	5.0	16.7	11 17	4 4.33	+16 53.6	2.001	2.983	2.8	20.6
11 27	3 54.61	+11 10.6	1.145	2.122	5.0	16.6	11 27	3 54.88	+16 19.9	2.000	2.983	2.1	20.5
12 7	3 45.22	+10 28.2	1.170	2.121	9.4	16.9	12 7	3 45.86	+15 49.3	2.029	2.983	5.8	20.8
12 17	3 37.87	+10 4.2	1.219	2.119	14.2	17.2	12 17	3 38.15	+15 25.1	2.086	2.982	9.4	21.0
12 27	3 33.51	+10 0.6	1.288	2.119	18.3	17.4	12 27	3 32.47	+15 9.6	2.168	2.981	12.5	21.2
218130	2002 <i>QQ</i> ₂₇		11 23.7 52°69	1°4/23.3	18		522934	2016 <i>PZ</i> ₁₁₁		11 23.7 350°54	6°1/21.4	18	
10 18	4 30.18	+17 38.1	1.194	2.032	19.9	20.5	10 18	4 23.74	+ 9 44.7	1.354	2.196	17.8	20.8
10 28	4 25.04	+17 36.8	1.148	2.054	15.2	20.3	10 28	4 20.02	+ 8 45.9	1.287	2.193	14.0	20.6
11 7	4 16.51	+17 32.2	1.121	2.077	9.8	20.1	11 7	4 13.34	+ 7 48.9	1.240	2.190	9.9	20.3
11 17	4 5.69	+17 25.4	1.117	2.100	4.1	19.8	11 17	4 4.50	+ 6 59.9	1.217	2.188	6.6	20.1
11 27	3 54.21	+17 19.0	1.139	2.123	2.6	19.8	11 27	3 54.81	+ 6 25.6	1.219	2.186	6.8	20.1
12 7	3 43.82	+17 16.1	1.187	2.146	8.0	20.2	12 7	3 45.71	+ 6 10.8	1.246	2.185	10.3	20.3
12 17	3 35.89	+17 19.9	1.259	2.170	12.9	20.5	12 17	3 38.50	+ 6 17.3	1.296	2.184	14.5	20.6
12 27	3 31.24	+17 32.6	1.352	2.194	17.0	20.9	12 27	3 34.09	+ 6 44.5	1.367	2.184	18.2	20.8
80263	1999 <i>XQ</i> ₁₅		11 23.7 44°60	0°8/23.4	18		446114	2013 <i>EK</i> ₁		11 23.7 290°33	6°6/20.2	18	
10 18	4 26.39	+22 17.5	1.235	2.073	19.4	18.3	10 18	4 22.48	+ 6 36.7	1.822	2.645	14.7	20.6
10 28	4 22.23	+21 32.6	1.178	2.085	14.9	18.1	10 28	4 18.38	+ 5 19.5	1.742	2.634	11.7	20.4
11 7	4 14.77	+20 36.2	1.141	2.097	9.6	17.8	11 7	4 11.97	+ 4 4.4	1.684	2.622	8.7	20.2
11 17	4 5.01	+19 31.3	1.127	2.110	3.9	17.5	11 17	4 3.90	+ 2 57.7	1.653	2.611	6.7	20.1
11 27	3 54.55	+18 23.6	1.139	2.124	2.3	17.5	11 27	3 55.10	+ 2 5.8	1.648	2.599	7.3	20.1
12 7	3 45.06	+17 20.7	1.177	2.137	7.9	17.9	12 7	3 46.69	+ 1 33.4	1.670	2.588	9.9	20.2
12 17	3 37.87	+16 29.6	1.239	2.152	12.9	18.2	12 17	3 39.64	+ 1 23.0	1.718	2.577	13.1	20.4
12 27	3 33.84	+15 54.6	1.322	2.166	17.1	18.5	12 27	3 34.76	+ 1 34.1	1.786	2.566	16.1	20.6
352923	2008 <i>YA</i> ₁₆₇		11 23.7 42°63	1°2/23.4	18		28680	Sandralitvin		11 23.7 216°42	0°5/23.9	18	R
10 18	4 30.07	+17 9.2	1.231	2.068	19.5	19.0	10 18	4 29.08	+22 25.2	1.884	2.689	15.0	19.6
10 28	4 24.75	+17 21.8	1.191	2.097	14.9	18.8	10 28	4 23.61	+22 25.1	1.795	2.683	11.7	19.3
11 7	4 16.20	+17 32.1	1.171	2.127	9.5	18.6	11 7	4 15.49	+22 18.3	1.728	2.676	7.7	19.1
11 17	4 5.53	+17 40.6	1.174	2.157	3.9	18.4	11 17	4 5.38	+22 4.4	1.687	2.669	3.3	18.8
11 27	3 54.34	+17 48.7	1.204	2.188	2.4	18.4	11 27	3 54.38	+21 44.5	1.676	2.661	1.5	18.6
12 7	3 44.27	+17 58.6	1.260	2.220	7.5	18.8	12 7	3 43.78	+21 21.5	1.693	2.653	6.1	18.9
12 17	3 36.60	+18 12.7	1.340	2.252	12.2	19.1	12 17	3 34.76	+20 59.4	1.739	2.644	10.3	19.2
12 27	3 32.08	+18 33.0	1.443	2.284	16.1	19.5	12 27	3 28.22	+20 42.2	1.809	2.634	14.0	19.4
445697	2011 <i>UC</i> ₁₇₆		11 23.7 50°29	0°7/24.1	15		375136	2007 <i>YF</i> ₇₀		11 23.7 136°66	1°2/23.3	17	
10 18	4 25.18	+24 19.8	1.808	2.620	15.3	21.6	10 18	4 28.89	+19 7.4	1.469	2.295	17.5	21.7
10 28	4 20.55	+24 0.1	1.732	2.623	11.8	21.4	10 28	4 23.88	+18 48.3	1.398	2.298	13.5	21.4
11 7	4 13.39	+23 30.6	1.677	2.626	7.8	21.2	11 7	4 15.81	+18 23.3	1.348	2.301	8.8	21.2
11 17	4 4.43	+22 52.0	1.649	2.630	3.4	20.9	11 17	4 5.52	+17 53.9	1.322	2.304	3.7	20.9
11 27	3 54.81	+22 6.8	1.648	2.633	1.5	20.8	11 27	3 54.36	+17 23.4	1.323	2.307	2.4	20.8
12 7	3 45.75	+21 19.6	1.676	2.637	6.0	21.1	12 7	3 43.86	+16 56.2	1.352	2.310	7.4	21.1
12 17	3 38.32	+20 35.2	1.732	2.641	10.1	21.4	12 17	3 35.36	+16 36.5	1.406	2.312	12.2	21.4
12 27	3 33.31	+19 58.4	1.811	2.645	13.7	21.6	12 27	3 29.79	+16 27.8	1.483	2.315	16.3	21.7
68258	2001 <i>DD</i> ₁₀₃		11 23.7 85°96	6°8/26.5	18		487487	2014 <i>SK</i> ₂₆₃		11 23.7 24°54	9°2/18.9	18	
10 18	4 34.93	+36 49.9	1.834	2.595	17.0	18.2	10 18	4 19.94	- 0 40.5	1.763	2.582	15.3	19.8
10 28	4 28.48	+37 58.9	1.770	2.614	14.0	18.0	10 28	4 16.24	- 2 13.4	1.714	2.592	12.7	19.7
11 7	4 18.79	+38 52.4	1.726	2.632	10.8	17.9	11 7	4 10.42	- 3 35.5	1.687	2.603	10.4	19.6
11 17	4 6.71	+39 24.5	1.707	2.650	8.0	17.7	11 17	4 3.19	- 4 39.5	1.685	2.615	9.2	19.5
11 27	3 53.69	+39 32.1	1.716	2.669	6.9	17.7	11 27	3 55.51	- 5 19.2	1.708	2.627	9.7	19.6
12 7	3 41.40	+39 16.8	1.751	2.686	8.2	17.8	12 7	3 48.38	- 5 32.1	1.756	2.641	11.6	19.7
12 17	3 31.25	+38 44.2	1.814	2.704	10.9	18.0	12 17	3 42.66	- 5 18.6	1.827	2.654	13.9	19.9
12 27	3 24.23	+38 2.5	1.900	2.721	13.7	18.3	12 27	3 39.00	- 4 41.7	1.918	2.669	16.1	20.1
21015	Shigenari		11 23.7 61°22	3°5/25.2	18		134440	1998 <i>SE</i> ₃₃		11 23.7 275°14	17°6/13.1	18	
10 18	4 27.56	+29 45.4	2.085	2.872	14.4	17.7	10 18	4 25.48	- 7 46.9	1.139	1.962	21.6	19.4
10 28	4 22.23	+30 22.7	2.012	2.882	11.4	17.5	10 28	4 21.77	-11 9.1	1.093	1.956	19.4	19.2
11 7	4 14.44	+30 50.2	1.960	2.892	8.1	17.3	11 7	4 14.68	-14 12.8	1.066	1.951	17.8	19.1
11 17	4 4.87	+31 5.5	1.935	2.903	4.9	17.2	11 17	4 5.11	-16 39.7	1.060	1.945	17.7	19.1
11 27	3 54.59	+31 7.4	1.938	2.913	3.6	17.1	11 27	3 54.57	-18 14.8	1.074	1.939	18.9	19.2
12 7	3 44.79	+30 57.8	1.970	2.924	5.9	17.3	12 7	3 44.75	-18 52.3	1.106	1.933	21.1	19.3
12 17	3 36.54	+30 40.1	2.030	2.935	9.1	17.5	12 17	3 37.12	-18 34.9	1.154	1.927	23.5	19.4
12 27	3 30.65	+30 19.3	2.116	2.946	12.1	17.7	12 27	3 32.68	-17 31.1	1.214	1.922	25.8	19.6
302766	2002 <i>VX</i> ₁₀₄		11 23.7 334°63	1°8/24.8	18		347376	2012 <i>RU</i> ₁₂	</				

EPHEMERIDES

11 23.7

11 23.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
156632	2002 JK ₁₁		11 23.7 109°59	1°1/24.2	18		124698	2001 SL ₁₄₀		11 23.8 81°68	1°1/23.3	18	
10 18	4 26.43	+23 1.3	2.286	3.083	12.9	19.7	10 18	4 30.23	+19 43.4	1.555	2.373	17.0	20.8
10 28	4 21.06	+23 23.3	2.206	3.089	10.0	19.5	10 28	4 24.40	+19 18.2	1.502	2.398	13.0	20.6
11 7	4 13.56	+23 40.4	2.149	3.094	6.6	19.3	11 7	4 15.82	+18 46.9	1.470	2.422	8.4	20.4
11 17	4 4.53	+23 51.6	2.119	3.099	3.0	19.1	11 17	4 5.43	+18 11.6	1.464	2.446	3.4	20.2
11 27	3 54.87	+23 56.9	2.120	3.104	1.5	19.0	11 27	3 54.56	+17 35.5	1.486	2.470	2.1	20.2
12 7	3 45.57	+23 57.8	2.150	3.109	5.0	19.2	12 7	3 44.58	+17 3.2	1.536	2.494	6.8	20.5
12 17	3 37.57	+23 56.6	2.209	3.114	8.5	19.5	12 17	3 36.61	+16 38.6	1.613	2.517	11.1	20.8
12 27	3 31.58	+23 56.0	2.294	3.118	11.5	19.7	12 27	3 31.36	+16 24.6	1.713	2.539	14.7	21.1
138636	2000 RJ ₁₈		11 23.7 320°74	5°5/26.4	18 R		522013	2015 XF ₂₃₇		11 23.8 78°86	0°8/23.4	18	
10 18	4 25.63	+35 18.4	1.823	2.606	16.3	19.0	10 18	4 25.45	+17 39.3	2.156	2.965	13.2	21.1
10 28	4 21.49	+35 42.9	1.732	2.594	13.4	18.7	10 28	4 20.37	+17 46.6	2.076	2.968	10.1	20.9
11 7	4 14.39	+35 51.6	1.661	2.582	10.1	18.5	11 7	4 13.14	+17 52.1	2.020	2.970	6.6	20.7
11 17	4 5.02	+35 40.9	1.613	2.570	7.0	18.3	11 17	4 4.39	+17 56.0	1.991	2.973	2.7	20.5
11 27	3 54.61	+35 9.2	1.592	2.559	5.6	18.2	11 27	3 55.00	+17 59.5	1.992	2.976	1.7	20.4
12 7	3 44.64	+34 19.3	1.598	2.548	7.4	18.3	12 7	3 46.00	+18 4.1	2.022	2.978	5.5	20.6
12 17	3 36.45	+33 17.2	1.630	2.538	10.7	18.5	12 17	3 38.29	+18 11.6	2.080	2.981	9.1	20.9
12 27	3 31.04	+32 11.1	1.687	2.528	14.1	18.7	12 27	3 32.60	+18 23.8	2.164	2.984	12.3	21.1
183603	2003 UO ₇₃		11 23.7 317°86	2°4/24.3	18		130270	2000 DZ ₅₄		11 23.8 353°52	1°0/24.2	17	
10 18	4 30.43	+23 41.3	1.353	2.176	18.8	20.1	10 18	4 21.94	+23 34.2	1.716	2.539	15.5	19.2
10 28	4 25.79	+24 25.0	1.275	2.171	14.8	19.8	10 28	4 18.36	+23 35.4	1.637	2.533	12.0	19.0
11 7	4 17.53	+25 2.9	1.216	2.166	10.1	19.6	11 7	4 12.17	+23 28.7	1.578	2.529	8.0	18.8
11 17	4 6.41	+25 31.5	1.181	2.161	4.9	19.2	11 17	4 4.07	+23 13.9	1.544	2.526	3.5	18.5
11 27	3 53.92	+25 48.9	1.173	2.156	2.9	19.1	11 27	3 55.15	+22 52.5	1.538	2.523	1.7	18.4
12 7	3 41.93	+25 55.9	1.190	2.152	7.7	19.4	12 7	3 46.68	+22 27.7	1.559	2.521	6.1	18.6
12 17	3 32.13	+25 56.7	1.233	2.148	12.8	19.7	12 17	3 39.80	+22 3.7	1.606	2.520	10.4	18.9
12 27	3 25.78	+25 56.8	1.297	2.144	17.3	19.9	12 27	3 35.37	+21 44.7	1.677	2.520	14.1	19.1
512463	2016 QB ₄₇		11 23.7 251°27	5°3/21.8	18		405764	2005 YF ₁₈₄		11 23.8 218°29	4°5/21.5	18	
10 18	4 26.98	+ 9 57.9	1.489	2.319	17.1	21.5	10 18	4 22.79	+ 7 21.1	2.331	3.141	12.3	21.3
10 28	4 22.31	+ 9 14.2	1.416	2.316	13.4	21.3	10 28	4 18.08	+ 6 46.6	2.252	3.138	9.7	21.1
11 7	4 14.77	+ 8 32.6	1.365	2.313	9.3	21.0	11 7	4 11.54	+ 6 15.5	2.197	3.135	7.0	20.9
11 17	4 5.12	+ 7 58.0	1.338	2.310	5.9	20.8	11 17	4 3.70	+ 5 51.1	2.169	3.133	4.8	20.8
11 27	3 54.60	+ 7 35.6	1.337	2.307	6.0	20.8	11 27	3 55.35	+ 5 36.7	2.169	3.130	5.0	20.8
12 7	3 44.64	+ 7 29.2	1.363	2.304	9.5	21.0	12 7	3 47.32	+ 5 34.2	2.199	3.127	7.2	20.9
12 17	3 36.47	+ 7 40.6	1.414	2.301	13.6	21.2	12 17	3 40.41	+ 5 44.8	2.256	3.124	10.0	21.1
12 27	3 31.04	+ 8 9.4	1.486	2.298	17.3	21.5	12 27	3 35.22	+ 6 8.2	2.337	3.120	12.6	21.3
193089	2000 GE ₇₆		11 23.7 232°25	1°3/22.9	18		510085	2010 LM ₁		11 23.8 166°97	1°6/23.1	18	
10 18	4 21.66	+17 49.1	2.721	3.525	10.9	20.8	10 18	4 28.56	+15 6.3	2.382	3.180	12.4	22.0
10 28	4 17.05	+17 16.7	2.628	3.517	8.3	20.6	10 28	4 22.47	+15 8.2	2.300	3.186	9.6	21.9
11 7	4 10.79	+16 40.5	2.559	3.509	5.4	20.4	11 7	4 14.38	+15 9.8	2.243	3.190	6.3	21.7
11 17	4 3.37	+16 2.2	2.519	3.500	2.4	20.2	11 17	4 4.87	+15 11.6	2.214	3.194	2.8	21.4
11 27	3 55.46	+15 24.4	2.509	3.491	1.9	20.1	11 27	3 54.79	+15 15.1	2.216	3.197	2.2	21.4
12 7	3 47.82	+14 49.8	2.530	3.482	4.9	20.3	12 7	3 45.08	+15 21.5	2.249	3.200	5.5	21.6
12 17	3 41.15	+14 21.0	2.580	3.472	8.0	20.5	12 17	3 36.59	+15 32.2	2.311	3.202	8.8	21.8
12 27	3 36.02	+14 0.2	2.656	3.463	10.7	20.7	12 27	3 30.00	+15 48.7	2.399	3.203	11.7	22.0
144468	2004 ET ₅₂		11 23.7 219°70	1°6/22.9	18		170866	2004 GL ₃₃		11 23.8 266°19	0°2/23.7	18	
10 18	4 25.06	+16 49.3	2.213	3.022	12.9	21.4	10 18	4 24.85	+21 24.9	1.965	2.777	14.2	20.4
10 28	4 20.03	+16 30.0	2.125	3.016	9.9	21.2	10 28	4 20.17	+21 10.1	1.881	2.774	11.0	20.2
11 7	4 12.91	+16 7.9	2.060	3.010	6.5	21.0	11 7	4 13.15	+20 48.7	1.821	2.771	7.2	19.9
11 17	4 4.28	+15 44.4	2.023	3.004	2.9	20.7	11 17	4 4.43	+20 21.7	1.786	2.769	2.9	19.7
11 27	3 55.01	+15 22.0	2.015	2.997	2.3	20.7	11 27	3 55.01	+19 51.2	1.781	2.766	1.5	19.6
12 7	3 46.07	+15 3.3	2.037	2.990	5.8	20.9	12 7	3 46.01	+19 20.5	1.804	2.763	5.8	19.8
12 17	3 38.37	+14 51.0	2.088	2.983	9.4	21.1	12 17	3 38.46	+18 53.4	1.855	2.760	9.8	20.1
12 27	3 32.61	+14 47.2	2.163	2.975	12.6	21.3	12 27	3 33.12	+18 33.4	1.930	2.758	13.2	20.3
76386	2000 FF ₃		11 23.7 146°66	3°9/25.5	18		61551	2000 QJ ₇₁		11 23.8 10°68	4°1/25.8	18	
10 18	4 30.75	+31 36.3	2.303	3.071	13.7	19.8	10 18	4 26.34	+32 22.9	1.937	2.723	15.3	19.0
10 28	4 24.56	+32 15.3	2.222	3.079	11.0	19.7	10 28	4 21.61	+32 36.8	1.855	2.724	12.3	18.8
11 7	4 15.94	+32 44.1	2.164	3.087	8.0	19.5	11 7	4 14.21	+32 37.0	1.795	2.724	8.9	18.5
11 17	4 5.55	+32 59.7	2.132	3.094	5.1	19.3	11 17	4 4.89	+32 21.4	1.760	2.725	5.6	18.4
11 27	3 54.41	+33 0.9	2.131	3.101	4.0	19.3	11 27	3 54.79	+31 49.8	1.752	2.726	4.1	18.3
12 7	3 43.71	+32 49.1	2.159	3.108	5.9	19.4	12 7	3 45.21	+31 5.3	1.772	2.727	6.3	18.4
12 17	3 34.49	+32 27.7	2.215	3.114	8.8	19.6	12 17	3 37.30	+30 13.3	1.820	2.728	9.7	18.6
12 27	3 27.56	+32 1.9	2.298	3.119	11.6	19.8	12 27	3 31.91	+29 20.4	1.892	2.730	13.0	18.8
485923	2012 GM ₃₃		11 23.8 215°41	0°5/24.0	17		333172	2012 CR ₅₁		11 23.8 208°65	4°6/26.3	17	
10 18	4 23.91	+23 15.7	2.666	3.459	11.4	22.5	10 18	4 27.19	+35 17.1	2.347	3.109	13.6	21.2
10 28	4 18.88	+23 6.9	2.571	3.453	8.8	22.3	10 28	4 21.92	+35 37.5	2.257	3.107	11.2	21.0
11 7	4 12.04	+22 52.2	2.501	3.447	5.8	22.1	11 7	4 14.27	+35 44.8	2.190	3.105	8.4	20.8
11 17	4 3.90	+22 31.7	2.459	3.440	2.5	21.9	11 17	4 4.89	+35 36.3	2.148	3.102	5.8	20.7
11 27	3 55.21	+22 6.6	2.447	3.432	1.1	21.8	11 27	3 54.79	+35 11.5	2.134	3.099	4.6	20.6
12 7	3 46.81	+21 39.3	2.466	3.425	4.5	22.0	12 7	3 45.10	+34 32.4	2.150	3.096	6.1	20.7
12 17	3 39.47	+21 12.6	2.515	3.417	7.7	22.2	12 17	3 36.84	+33 43.4	2.193	3.093	8.8	20.9
12 27	3 33.81	+20 49.5	2.590	3.408	10.5	22.4	12 27	3 30.83	+32 50.5	2.263	3.090	11.5	21.0
358186	2006 ST ₈₉		11 23.8 322°80	1°3/24.3	18		326061	2011 AE ₃₄		11 23.8 252°81	3°8/22.4	18	
10 18													

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
312405	2008 <i>FD</i> ₅₆		11 23.8 295°31	4°0/25.2	17		141736	2002 <i>LC</i> ₂₉		11 23.8 133°29	2°7/22.6	18	
10 18	4 27.64	+29 50.3	1.928	2.719	15.2	21.0	10 18	4 30.24	+15 22.0	1.829	2.640	15.2	20.6
10 28	4 22.86	+30 30.9	1.831	2.704	12.2	20.8	10 28	4 24.12	+14 44.9	1.764	2.655	11.6	20.4
11 7	4 15.26	+31 2.3	1.757	2.690	8.8	20.6	11 7	4 15.58	+14 5.4	1.721	2.670	7.6	20.2
11 17	4 5.44	+31 20.9	1.707	2.675	5.4	20.3	11 17	4 5.39	+13 26.2	1.705	2.684	3.7	20.0
11 27	3 54.49	+31 25.0	1.685	2.660	4.1	20.2	11 27	3 54.66	+12 51.1	1.719	2.697	3.4	20.0
12 7	3 43.79	+31 15.3	1.692	2.646	6.6	20.4	12 7	3 44.61	+12 23.7	1.761	2.710	7.0	20.2
12 17	3 34.63	+30 55.6	1.725	2.631	10.3	20.5	12 17	3 36.22	+12 6.9	1.832	2.721	10.8	20.5
12 27	3 28.08	+30 31.6	1.783	2.617	13.8	20.7	12 27	3 30.23	+12 2.4	1.926	2.732	14.1	20.7
496316	2013 <i>HQ</i> ₁₁		11 23.8 76°19	3°8/25.2	17		15457	1998 <i>YN</i> ₆		11 23.8 263°22	8°8/18.9	18	
10 18	4 36.64	+29 28.4	1.202	2.014	21.4	20.5	10 18	4 22.30	- 8 32.0	2.509	3.279	12.7	17.8
10 28	4 30.28	+29 42.9	1.156	2.042	16.8	20.3	10 28	4 17.59	- 9 23.5	2.438	3.272	11.0	17.7
11 7	4 20.05	+29 40.5	1.129	2.070	11.6	20.1	11 7	4 11.18	-10 2.2	2.390	3.265	9.6	17.6
11 17	4 7.24	+29 18.1	1.124	2.098	6.3	19.8	11 17	4 3.58	-10 23.2	2.367	3.258	8.9	17.5
11 27	3 53.79	+28 37.2	1.145	2.126	4.0	19.8	11 27	3 55.51	-10 22.8	2.370	3.251	9.2	17.5
12 7	3 41.75	+27 44.2	1.192	2.153	7.8	20.1	12 7	3 47.75	- 9 59.7	2.399	3.244	10.4	17.6
12 17	3 32.64	+26 48.2	1.264	2.179	12.6	20.4	12 17	3 41.01	- 9 14.8	2.452	3.237	12.1	17.7
12 27	3 27.28	+25 57.8	1.359	2.205	16.6	20.8	12 27	3 35.88	- 8 10.8	2.526	3.230	13.8	17.9
404294	2013 <i>EH</i> ₁₀₉		11 23.8 172°27	1°3/23.2	18		6488	Drebach		11 23.8 50°40	5°0/22.5	18	R
10 18	4 25.33	+17 20.1	2.122	2.932	13.3	21.3	10 18	4 28.25	+ 8 12.8	1.506	2.331	17.1	16.5
10 28	4 20.29	+17 9.4	2.041	2.933	10.3	21.1	10 28	4 23.14	+ 8 2.7	1.443	2.339	13.4	16.3
11 7	4 13.11	+16 56.1	1.984	2.934	6.7	20.9	11 7	4 15.22	+ 7 58.9	1.402	2.348	9.3	16.1
11 17	4 4.39	+16 41.3	1.954	2.935	2.9	20.7	11 17	4 5.32	+ 8 4.7	1.385	2.356	5.8	15.9
11 27	3 55.06	+16 27.0	1.953	2.936	2.1	20.6	11 27	3 54.69	+ 8 22.8	1.394	2.365	5.5	15.9
12 7	3 46.12	+16 15.6	1.981	2.936	5.8	20.9	12 7	3 44.70	+ 8 54.2	1.431	2.374	8.8	16.2
12 17	3 38.50	+16 9.4	2.038	2.936	9.4	21.1	12 17	3 36.56	+ 9 38.5	1.493	2.384	12.8	16.4
12 27	3 32.91	+16 10.6	2.119	2.936	12.6	21.3	12 27	3 31.10	+10 34.2	1.578	2.393	16.3	16.7
485801	2012 <i>DJ</i> ₃₄		11 23.8 242°88	4°3/26.0	17		267799	2003 <i>SZ</i> ₂₇₅		11 23.8 49°87	7°9/28.2	18	
10 18	4 26.51	+33 36.7	2.212	2.985	14.1	21.2	10 18	4 31.88	+42 20.2	1.978	2.716	16.6	19.3
10 28	4 21.48	+33 56.8	2.126	2.984	11.4	21.0	10 28	4 26.04	+43 18.0	1.922	2.742	14.0	19.2
11 7	4 14.03	+34 4.3	2.061	2.983	8.4	20.8	11 7	4 17.14	+43 56.7	1.886	2.768	11.4	19.1
11 17	4 4.81	+33 56.8	2.023	2.983	5.5	20.6	11 17	4 6.10	+44 11.2	1.873	2.794	9.0	19.0
11 27	3 54.86	+33 33.6	2.012	2.982	4.3	20.6	11 27	3 54.34	+43 59.4	1.887	2.821	7.9	19.0
12 7	3 45.33	+32 57.2	2.030	2.981	6.0	20.7	12 7	3 43.40	+43 23.9	1.926	2.847	8.6	19.1
12 17	3 37.29	+32 12.0	2.077	2.980	9.0	20.9	12 17	3 34.56	+42 30.7	1.992	2.874	10.5	19.3
12 27	3 31.54	+31 23.8	2.148	2.979	11.9	21.1	12 27	3 28.69	+41 28.2	2.082	2.901	12.7	19.5
104459	2000 <i>GJ</i> ₀		11 23.8 295°58	3°4/22.3	18		405717	2005 <i>WB</i> ₆₆		11 23.8 308°50	0°3/23.6	17	
10 18	4 25.43	+15 32.5	1.497	2.330	16.9	20.0	10 18	4 23.02	+21 25.1	1.955	2.771	14.1	21.7
10 28	4 21.21	+14 42.3	1.421	2.324	13.0	19.8	10 28	4 18.88	+21 3.2	1.865	2.759	10.9	21.4
11 7	4 14.11	+13 47.5	1.365	2.319	8.7	19.5	11 7	4 12.40	+20 34.1	1.797	2.748	7.2	21.2
11 17	4 4.90	+12 52.3	1.335	2.314	4.4	19.2	11 17	4 4.19	+19 59.0	1.755	2.737	2.9	20.9
11 27	3 54.82	+12 2.1	1.331	2.309	4.2	19.2	11 27	3 55.23	+19 20.4	1.742	2.727	1.5	20.8
12 7	3 45.28	+11 22.7	1.354	2.304	8.4	19.5	12 7	3 46.62	+18 42.1	1.757	2.716	5.9	21.1
12 17	3 37.53	+10 58.1	1.402	2.299	12.9	19.7	12 17	3 39.39	+18 8.2	1.800	2.706	10.0	21.3
12 27	3 32.50	+10 50.8	1.471	2.294	16.8	19.9	12 27	3 34.35	+17 42.5	1.867	2.696	13.5	21.5
264799	2002 <i>OE</i> ₆		11 23.8 165°06	3°9/26.6	17		85763	1998 <i>TP</i> ₇		11 23.8 170°50	1°6/23.0	18	
10 18	4 25.87	+35 49.9	2.646	3.401	12.4	20.6	10 18	4 28.33	+18 24.0	1.802	2.615	15.2	20.3
10 28	4 20.52	+35 44.4	2.557	3.403	10.1	20.5	10 28	4 22.93	+17 51.8	1.724	2.618	11.7	20.1
11 7	4 13.14	+35 25.4	2.492	3.406	7.5	20.3	11 7	4 14.98	+17 14.2	1.670	2.621	7.6	19.9
11 17	4 4.37	+34 51.5	2.452	3.408	5.0	20.1	11 17	4 5.22	+16 33.3	1.641	2.623	3.3	19.6
11 27	3 55.10	+34 3.3	2.442	3.409	3.9	20.1	11 27	3 54.77	+15 52.7	1.642	2.624	2.5	19.5
12 7	3 46.29	+33 3.7	2.462	3.411	5.2	20.2	12 7	3 44.86	+15 16.4	1.671	2.625	6.7	19.8
12 17	3 38.79	+31 57.2	2.512	3.412	7.8	20.3	12 17	3 36.58	+14 48.5	1.728	2.626	10.8	20.1
12 27	3 33.24	+30 49.4	2.588	3.414	10.3	20.5	12 27	3 30.73	+14 31.9	1.808	2.626	14.4	20.3
63297	2001 <i>EE</i> ₅		11 23.8 211°25	1°2/24.3	18		397961	2008 <i>YR</i> ₁₁₁		11 23.8 274°67	0°4/23.9	18	
10 18	4 27.80	+24 11.3	2.120	2.917	13.8	20.4	10 18	4 26.54	+22 57.2	1.846	2.656	15.1	21.4
10 28	4 22.39	+24 17.2	2.030	2.912	10.8	20.2	10 28	4 21.91	+22 45.5	1.745	2.636	11.8	21.1
11 7	4 14.61	+24 16.1	1.962	2.907	7.2	20.0	11 7	4 14.59	+22 25.3	1.666	2.616	7.8	20.9
11 17	4 5.06	+24 7.2	1.922	2.901	3.3	19.8	11 17	4 5.18	+21 56.8	1.614	2.595	3.3	20.5
11 27	3 54.75	+23 51.2	1.911	2.895	1.6	19.6	11 27	3 54.74	+21 21.7	1.589	2.574	1.5	20.4
12 7	3 44.79	+23 30.4	1.930	2.889	5.5	19.9	12 7	3 44.57	+20 43.6	1.593	2.553	6.3	20.6
12 17	3 36.24	+23 8.2	1.977	2.882	9.3	20.1	12 17	3 35.90	+20 7.2	1.624	2.532	10.8	20.8
12 27	3 29.90	+22 48.8	2.050	2.875	12.6	20.3	12 27	3 29.70	+19 37.6	1.680	2.510	14.7	21.0
307928	2004 <i>EC</i> ₃₈		11 23.8 318°83	5°8/20.3	17		185966	2001 <i>HC</i> ₁₃		11 23.8 153°29	0°4/23.9	18	
10 18	4 20.38	+13 7.3	1.490	2.332	16.4	19.8	10 18	4 30.94	+22 25.9	1.921	2.721	14.9	21.5
10 28	4 17.54	+11 25.8	1.395	2.303	12.9	19.5	10 28	4 24.83	+22 23.3	1.845	2.730	11.5	21.3
11 7	4 11.91	+ 9 35.3	1.321	2.273	9.1	19.2	11 7	4 16.17	+22 13.7	1.791	2.738	7.6	21.1
11 17	4 4.09	+ 7 43.0	1.273	2.245	6.1	19.0	11 17	4 5.70	+21 57.2	1.764	2.746	3.2	20.8
11 27	3 55.18	+ 5 58.8	1.250	2.217	6.9	18.9	11 27	3 54.55	+21 35.1	1.767	2.752	1.5	20.7
12 7	3 46.55	+ 4 32.3	1.254	2.189	10.8	19.1	12 7	3 43.97	+21 10.5	1.800	2.758	5.8	21.0
12 17	3 39.50	+ 3 30.7	1.282	2.162	15.2	19.3	12 17	3 35.03	+20 47.2	1.860	2.764	9.9	21.3
12 27	3 35.05	+ 2 57.3	1.329	2.137	19.2	19.4	12 27	3 28.54	+20 29.1	1.946	2.768	13.3	21.5
516440	2004 <i>RZ</i> ₁₆₀		11 23.8 78°35	0°8/24.2	18		223184	2003 <i>AR</i>					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
300503	2007 <i>TB</i> ₁₆₅		11 23.8	4°78	1°6/23.2	18	68304	2001 <i>FO</i> ₉₇		11 23.8	67°14	2°5/22.8	18
10 18	4 21.79	+18 47.9	1.288	2.135	18.2	20.3	10 18	4 24.70	+12 58.9	2.164	2.976	13.1	18.4
10 28	4 18.82	+18 23.4	1.223	2.134	14.0	20.1	10 28	4 19.64	+12 51.8	2.098	2.990	10.0	18.2
11 7	4 12.75	+17 52.8	1.177	2.135	9.2	19.8	11 7	4 12.61	+12 45.6	2.055	3.003	6.6	18.1
11 17	4 4.41	+17 18.5	1.154	2.137	3.9	19.5	11 17	4 4.22	+12 42.0	2.039	3.016	3.4	17.9
11 27	3 55.17	+16 44.8	1.156	2.140	2.7	19.5	11 27	3 55.36	+12 42.8	2.052	3.030	3.0	17.9
12 7	3 46.61	+16 16.7	1.184	2.144	7.9	19.8	12 7	3 46.95	+12 49.6	2.095	3.044	6.0	18.1
12 17	3 40.05	+15 58.6	1.235	2.150	12.8	20.1	12 17	3 39.83	+13 3.5	2.165	3.057	9.3	18.3
12 27	3 36.42	+15 53.5	1.308	2.157	17.0	20.4	12 27	3 34.63	+13 25.2	2.261	3.071	12.2	18.5
403133	2008 <i>EC</i> ₃₉		11 23.8	224°73	1°0/24.2	18	230279	2001 <i>XN</i> ₁₅₈		11 23.8	18°04	1°3/23.4	18
10 18	4 26.28	+23 32.8	2.131	2.932	13.6	21.9	10 18	4 23.48	+19 33.5	1.153	2.003	19.7	19.6
10 28	4 21.21	+23 41.6	2.044	2.929	10.6	21.7	10 28	4 20.36	+19 13.1	1.096	2.010	15.1	19.4
11 7	4 13.83	+23 44.0	1.979	2.925	7.0	21.4	11 7	4 13.84	+18 45.8	1.058	2.017	9.8	19.1
11 17	4 4.77	+23 39.5	1.942	2.922	3.2	21.2	11 17	4 4.89	+18 13.7	1.042	2.026	4.1	18.8
11 27	3 54.98	+23 28.8	1.933	2.918	1.5	21.1	11 27	3 55.05	+17 41.1	1.051	2.036	2.5	18.7
12 7	3 45.54	+23 13.9	1.955	2.914	5.4	21.3	12 7	3 46.07	+17 13.3	1.084	2.047	8.1	19.1
12 17	3 37.47	+22 58.0	2.004	2.910	9.1	21.5	12 17	3 39.36	+16 55.2	1.141	2.059	13.3	19.4
12 27	3 31.54	+22 44.6	2.079	2.906	12.4	21.7	12 27	3 35.87	+16 50.0	1.218	2.072	17.7	19.7
523110	2016 <i>SU</i> ₅₁		11 23.8	288°46	4°9/26.1	18	197221	2003 <i>WR</i> ₃₂		11 23.8	322°31	1°0/24.3	17
10 18	4 28.85	+33 47.6	1.525	2.320	18.4	20.9	10 18	4 22.48	+24 51.2	2.089	2.896	13.6	20.2
10 28	4 24.37	+33 52.2	1.442	2.314	14.9	20.6	10 28	4 18.40	+24 40.8	1.998	2.886	10.6	20.0
11 7	4 16.47	+33 38.0	1.377	2.308	10.9	20.4	11 7	4 12.07	+24 21.8	1.929	2.876	7.1	19.7
11 17	4 5.99	+33 1.4	1.336	2.302	6.9	20.2	11 17	4 4.09	+23 54.3	1.886	2.866	3.2	19.5
11 27	3 54.41	+32 2.3	1.321	2.296	5.0	20.0	11 27	3 55.40	+23 19.9	1.872	2.857	1.5	19.3
12 7	3 43.50	+30 46.0	1.333	2.290	7.6	20.2	12 7	3 47.05	+22 41.8	1.887	2.848	5.4	19.6
12 17	3 34.77	+29 21.2	1.371	2.285	11.8	20.4	12 17	3 40.03	+22 4.1	1.930	2.840	9.2	19.8
12 27	3 29.30	+27 58.2	1.431	2.279	15.9	20.6	12 27	3 35.09	+21 31.2	1.997	2.831	12.6	20.0
65601	3159 <i>T-3</i>		11 23.8	35°06	0°3/23.6	18	8793	Thomasmüller		11 23.8	349°77	1°4/24.3	18
10 18	4 25.17	+20 14.4	1.871	2.687	14.7	19.6	10 18	4 23.70	+24 54.8	1.357	2.189	18.3	17.0
10 28	4 20.50	+20 10.2	1.795	2.690	11.3	19.4	10 28	4 20.44	+24 50.9	1.282	2.183	14.3	16.7
11 7	4 13.42	+20 1.0	1.742	2.693	7.4	19.2	11 7	4 13.94	+24 35.4	1.226	2.178	9.6	16.5
11 17	4 4.60	+19 47.4	1.714	2.697	3.0	18.9	11 17	4 4.98	+24 7.9	1.193	2.174	4.4	16.2
11 27	3 55.10	+19 31.3	1.715	2.700	1.5	18.8	11 27	3 54.98	+23 30.5	1.186	2.171	2.1	16.0
12 7	3 46.08	+19 15.4	1.745	2.704	5.9	19.1	12 7	3 45.56	+22 48.1	1.204	2.168	7.2	16.3
12 17	3 38.57	+19 2.8	1.801	2.708	9.9	19.4	12 17	3 38.20	+22 7.0	1.247	2.167	12.3	16.6
12 27	3 33.35	+18 56.4	1.882	2.712	13.4	19.6	12 27	3 33.91	+21 33.5	1.312	2.166	16.6	16.9
268693	2006 <i>GN</i> ₄₂		11 23.8	240°45	5°2/20.1	17	73056	2002 <i>FN</i> ₂		11 23.8	166°12	2°9/22.6	18
10 18	4 20.96	+ 5 56.5	2.595	3.401	11.3	20.9	10 18	4 29.41	+15 34.6	1.719	2.535	15.7	20.2
10 28	4 16.56	+ 4 47.8	2.511	3.392	9.0	20.8	10 28	4 23.82	+14 53.7	1.645	2.540	12.1	19.9
11 7	4 10.53	+ 3 41.3	2.451	3.383	6.7	20.6	11 7	4 15.61	+14 9.3	1.594	2.544	8.0	19.7
11 17	4 3.36	+ 2 41.3	2.420	3.373	5.3	20.5	11 17	4 5.53	+13 24.7	1.568	2.547	3.9	19.5
11 27	3 55.71	+ 1 52.2	2.418	3.364	5.7	20.5	11 27	3 54.75	+12 44.0	1.571	2.550	3.6	19.5
12 7	3 48.34	+ 1 17.1	2.445	3.354	7.6	20.6	12 7	3 44.55	+12 11.7	1.603	2.552	7.5	19.7
12 17	3 41.92	+ 0 57.8	2.499	3.344	10.0	20.8	12 17	3 36.06	+11 51.2	1.662	2.554	11.6	19.9
12 27	3 37.02	+ 0 54.8	2.576	3.333	12.3	20.9	12 27	3 30.09	+11 44.5	1.744	2.554	15.2	20.2
444511	2006 <i>SG</i> ₃₄		11 23.8	105°75	6°1/27.1	18	215737	2004 <i>DG</i> ₄₄		11 23.8	322°19	6°2/21.6	18
10 18	4 31.86	+38 33.3	2.106	2.855	15.4	20.9	10 18	4 23.69	+ 6 37.2	1.598	2.427	16.1	19.8
10 28	4 25.75	+39 8.2	2.035	2.871	12.8	20.8	10 28	4 19.77	+ 6 2.7	1.517	2.413	12.9	19.6
11 7	4 16.87	+39 26.8	1.985	2.886	9.9	20.6	11 7	4 13.21	+ 5 33.7	1.457	2.400	9.4	19.3
11 17	4 6.03	+39 25.3	1.960	2.901	7.3	20.5	11 17	4 4.63	+ 5 15.3	1.421	2.387	6.6	19.2
11 27	3 54.48	+39 2.2	1.962	2.915	6.1	20.5	11 27	3 55.13	+ 5 12.2	1.411	2.374	6.7	19.1
12 7	3 43.60	+38 20.2	1.992	2.929	7.2	20.6	12 7	3 45.99	+ 5 27.1	1.428	2.362	9.7	19.3
12 17	3 34.58	+37 24.9	2.050	2.943	9.7	20.7	12 17	3 38.40	+ 6 0.7	1.469	2.351	13.5	19.5
12 27	3 28.24	+36 23.8	2.133	2.957	12.3	20.9	12 27	3 33.28	+ 6 51.5	1.531	2.340	17.0	19.7
176096	2001 <i>BD</i> ₃		11 23.8	33°69	22°1/13.4	18	276365	2002 <i>VJ</i> ₂₄		11 23.8	344°01	0°4/23.9	18
10 18	4 49.80	+64 34.4	1.141	1.807	29.9	18.3	10 18	4 23.52	+19 26.9	1.077	1.932	20.4	19.8
10 28	4 47.47	+67 11.9	1.113	1.826	28.1	18.2	10 28	4 21.13	+20 1.5	1.004	1.919	16.0	19.5
11 7	4 35.49	+69 6.9	1.094	1.847	26.2	18.1	11 7	4 14.90	+20 34.1	0.948	1.907	10.6	19.2
11 17	4 14.74	+70 2.1	1.086	1.869	24.5	18.1	11 17	4 5.56	+21 3.4	0.913	1.897	4.5	18.8
11 27	3 50.42	+69 44.6	1.090	1.892	23.1	18.1	11 27	3 54.65	+21 28.7	0.902	1.888	2.1	18.6
12 7	3 29.75	+68 16.6	1.108	1.917	22.3	18.1	12 7	3 44.20	+21 50.9	0.915	1.880	8.5	19.0
12 17	3 17.33	+65 54.3	1.142	1.942	22.2	18.2	12 17	3 36.11	+22 12.8	0.949	1.875	14.4	19.3
12 27	3 13.93	+63 0.2	1.191	1.968	22.7	18.3	12 27	3 31.74	+22 38.1	1.004	1.871	19.5	19.6
300458	2007 <i>TW</i> ₈₁		11 23.8	200°49	1°3/23.2	18	517502	2014 <i>QH</i> ₃₂₆		11 23.8	75°09	7°9/18.9	18
10 18	4 25.66	+18 31.2	1.879	2.695	14.6	21.2	10 18	4 21.69	- 1 18.1	2.232	3.032	13.1	21.3
10 28	4 20.87	+18 10.6	1.800	2.695	11.2	21.0	10 28	4 17.18	- 2 44.7	2.181	3.046	10.9	21.2
11 7	4 13.66	+17 45.4	1.742	2.694	7.3	20.8	11 7	4 10.91	- 4 2.0	2.154	3.061	8.9	21.1
11 17	4 4.73	+17 17.3	1.711	2.693	3.1	20.5	11 17	4 3.50	- 5 4.3	2.153	3.076	7.9	21.1
11 27	3 55.09	+16 48.9	1.709	2.693	2.1	20.5	11 27	3 55.74	- 5 46.8	2.180	3.090	8.4	21.1
12 7	3 45.91	+16 23.6	1.735	2.692	6.3	20.7	12 7	3 48.43	- 6 7.0	2.232	3.105	10.0	21.2
12 17	3 38.22	+16 4.9	1.789	2.691	10.3	21.0	12 17	3 42.31	- 6 4.9	2.309	3.120	11.9	21.4
12 27	3 32.81	+15 55.4	1.867	2.690	13.8	21.2	12 27	3 37.90	- 5 42.6	2.408	3.134	13.9	21.6
310985	2003 <i>UO</i> ₃₆₉		11 23.8	150°98	1°6/24.5	17	69570	1998 <i>BT</i> ₂					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
292976	2006 VE ₁₄₅		11 23.8	52°13	4.5/25.4	18	510235	2011 FT ₆		11 23.8	275°78	10°1/24.8	18
10 18	4 31.53	+30 5.5	1.220	2.038	20.8	19.9	10 18	4 42.09	+38 22.2	1.707	2.456	18.5	21.3
10 28	4 26.62	+30 34.9	1.169	2.057	16.5	19.7	10 28	4 35.92	+40 31.6	1.599	2.430	15.9	21.0
11 7	4 17.92	+30 47.9	1.136	2.077	11.6	19.5	11 7	4 25.21	+42 34.0	1.512	2.403	13.1	20.8
11 17	4 6.55	+30 40.8	1.125	2.097	6.7	19.3	11 17	4 10.23	+44 17.7	1.450	2.375	10.8	20.6
11 27	3 54.33	+30 13.6	1.139	2.118	4.6	19.2	11 27	3 52.32	+45 30.8	1.414	2.347	10.1	20.5
12 7	3 43.25	+29 31.5	1.178	2.138	8.0	19.5	12 7	3 33.76	+46 7.2	1.405	2.318	11.8	20.5
12 17	3 34.87	+28 42.8	1.242	2.160	12.5	19.8	12 17	3 17.18	+46 8.8	1.422	2.289	14.8	20.6
12 27	3 30.12	+27 56.3	1.328	2.181	16.5	20.1	12 27	3 4.71	+45 46.0	1.460	2.259	18.2	20.7
791	Ani		11 23.8	63°38	7.5/20.7	18	406766	2008 KZ ₃₀		11 23.8	56°35	4°8/22.3	18
10 18	4 23.78	- 1 13.4	2.100	2.900	13.8	14.0	10 18	4 26.52	+ 6 31.6	1.930	2.741	14.4	20.6
10 28	4 18.82	- 2 0.8	2.051	2.919	11.4	13.8	10 28	4 21.16	+ 6 23.3	1.872	2.759	11.3	20.5
11 7	4 11.99	- 2 37.3	2.025	2.937	9.1	13.7	11 7	4 13.65	+ 6 21.5	1.837	2.776	8.0	20.3
11 17	4 3.95	- 2 58.5	2.023	2.957	7.7	13.7	11 17	4 4.69	+ 6 28.8	1.827	2.794	5.3	20.2
11 27	3 55.54	- 3 1.0	2.049	2.976	7.9	13.7	11 27	3 55.27	+ 6 47.1	1.847	2.812	5.2	20.2
12 7	3 47.67	- 2 43.7	2.102	2.995	9.5	13.9	12 7	3 46.40	+ 7 17.2	1.894	2.830	7.7	20.4
12 17	3 41.09	- 2 7.6	2.180	3.014	11.7	14.1	12 17	3 38.99	+ 7 58.5	1.969	2.848	10.7	20.6
12 27	3 36.38	- 1 15.2	2.281	3.033	13.8	14.2	12 27	3 33.69	+ 8 49.8	2.068	2.866	13.6	20.8
82168	2001 HW ₃		11 23.8	156°86	0°3/23.7	18	220078	2002 RK ₂₁₂		11 23.8	88°21	2°5/23.1	18
10 18	4 30.49	+20 35.2	1.906	2.710	14.9	21.0	10 18	4 31.81	+14 23.9	1.497	2.317	17.4	20.1
10 28	4 24.50	+20 27.0	1.830	2.718	11.5	20.8	10 28	4 25.85	+14 20.9	1.440	2.336	13.4	19.9
11 7	4 15.99	+20 13.1	1.776	2.725	7.5	20.6	11 7	4 16.99	+14 18.2	1.404	2.355	8.8	19.7
11 17	4 5.69	+19 54.1	1.749	2.731	3.1	20.3	11 17	4 6.12	+14 17.3	1.394	2.374	4.1	19.5
11 27	3 54.71	+19 31.7	1.751	2.736	1.6	20.2	11 27	3 54.62	+14 20.2	1.411	2.392	3.3	19.5
12 7	3 44.27	+19 9.1	1.783	2.741	6.0	20.5	12 7	3 43.92	+14 29.1	1.456	2.410	7.5	19.8
12 17	3 35.46	+18 49.7	1.844	2.745	10.1	20.8	12 17	3 35.25	+14 45.5	1.527	2.428	11.9	20.1
12 27	3 29.06	+18 37.0	1.929	2.749	13.5	21.0	12 27	3 29.43	+15 10.4	1.622	2.445	15.5	20.3
411593	2011 FU		11 23.8	12°77	1°0/23.5	18	436454	2011 CQ ₈₀		11 23.8	165°14	0°7/24.1	18
10 18	4 24.23	+16 52.9	1.754	2.578	15.1	19.6	10 18	4 29.35	+24 13.3	1.780	2.586	15.7	21.8
10 28	4 19.93	+17 10.6	1.683	2.582	11.6	19.4	10 28	4 23.90	+23 56.5	1.702	2.589	12.2	21.6
11 7	4 13.14	+17 27.5	1.634	2.587	7.6	19.2	11 7	4 15.74	+23 30.0	1.645	2.593	8.1	21.3
11 17	4 4.55	+17 43.8	1.611	2.593	3.2	18.9	11 17	4 5.66	+22 53.9	1.614	2.595	3.5	21.0
11 27	3 55.24	+18 0.3	1.616	2.600	1.9	18.8	11 27	3 54.82	+22 10.6	1.612	2.598	1.6	20.9
12 7	3 46.40	+18 18.2	1.649	2.608	6.2	19.1	12 7	3 44.57	+21 24.5	1.639	2.599	6.1	21.2
12 17	3 39.10	+18 38.9	1.708	2.616	10.3	19.4	12 17	3 36.06	+20 40.7	1.694	2.601	10.4	21.5
12 27	3 34.16	+19 4.0	1.791	2.625	13.8	19.7	12 27	3 30.13	+20 4.3	1.772	2.602	14.1	21.7
4218	Demottoni		11 23.8	171°06	1°6/23.1	18	399860	2005 UO ₃₂₅		11 23.8	73°09	0°9/24.2	18
10 18	4 29.52	+18 55.0	1.747	2.560	15.7	17.9	10 18	4 26.88	+22 59.6	1.979	2.784	14.4	21.3
10 28	4 23.94	+18 17.9	1.670	2.563	12.1	17.7	10 28	4 21.69	+23 9.8	1.909	2.797	11.1	21.1
11 7	4 15.71	+17 34.4	1.615	2.566	7.9	17.4	11 7	4 14.14	+23 13.7	1.862	2.809	7.3	20.9
11 17	4 5.59	+16 46.9	1.587	2.569	3.4	17.2	11 17	4 4.95	+23 10.8	1.841	2.822	3.2	20.7
11 27	3 54.76	+15 59.1	1.588	2.570	2.5	17.1	11 27	3 55.16	+23 2.1	1.849	2.834	1.5	20.6
12 7	3 44.52	+15 15.7	1.617	2.571	6.9	17.4	12 7	3 45.89	+22 49.8	1.887	2.847	5.5	20.9
12 17	3 35.98	+14 41.3	1.674	2.572	11.1	17.7	12 17	3 38.14	+22 37.0	1.952	2.860	9.2	21.1
12 27	3 29.98	+14 19.2	1.754	2.571	14.8	17.9	12 27	3 32.65	+22 27.3	2.042	2.872	12.5	21.4
475710	2006 VL ₁₇₀		11 23.8	329°29	3°0/23.1	18	440847	2006 SY ₁₂₆		11 23.8	31°95	4°8/26.1	17
10 18	4 24.30	+14 25.0	1.177	2.028	19.3	20.8	10 18	4 26.69	+32 41.1	1.341	2.152	19.6	20.2
10 28	4 21.37	+14 23.9	1.097	2.010	15.2	20.5	10 28	4 22.61	+32 52.9	1.290	2.173	15.6	20.0
11 7	4 14.89	+14 23.6	1.036	1.994	10.1	20.1	11 7	4 15.16	+32 45.9	1.258	2.194	11.2	19.8
11 17	4 5.53	+14 26.6	0.997	1.979	4.8	19.8	11 17	4 5.41	+32 17.7	1.249	2.217	6.9	19.6
11 27	3 54.73	+14 35.8	0.982	1.964	3.9	19.7	11 27	3 54.99	+31 29.8	1.264	2.241	4.8	19.6
12 7	3 44.29	+14 53.7	0.991	1.951	9.2	19.9	12 7	3 45.62	+30 28.2	1.306	2.265	7.5	19.8
12 17	3 35.94	+15 22.3	1.023	1.939	14.7	20.2	12 17	3 38.63	+29 21.5	1.372	2.290	11.5	20.1
12 27	3 30.98	+16 2.7	1.075	1.928	19.6	20.5	12 27	3 34.83	+28 18.2	1.461	2.316	15.2	20.4
485633	2011 UH ₃₉₁		11 23.8	6°17	8°6/19.8	17	17103	Kadysizova		11 23.8	31°00	1°1/23.3	18
10 18	4 20.96	+ 4 16.3	1.457	2.294	17.0	20.6	10 18	4 24.23	+18 55.8	1.820	2.641	14.8	18.3
10 28	4 17.64	+ 2 46.6	1.398	2.294	13.7	20.4	10 28	4 19.82	+18 35.3	1.747	2.645	11.4	18.1
11 7	4 11.72	+ 1 23.5	1.360	2.295	10.6	20.2	11 7	4 13.01	+18 10.0	1.696	2.649	7.4	17.9
11 17	4 3.97	+ 0 15.1	1.345	2.297	8.7	20.1	11 17	4 4.51	+17 41.6	1.671	2.654	3.1	17.6
11 27	3 55.55	- 0 30.7	1.356	2.300	9.2	20.2	11 27	3 55.37	+17 12.8	1.675	2.658	2.0	17.6
12 7	3 47.71	- 0 49.6	1.390	2.304	11.8	20.3	12 7	3 46.73	+16 47.2	1.706	2.664	6.2	17.9
12 17	3 41.54	- 0 40.9	1.448	2.309	15.0	20.6	12 17	3 39.61	+16 28.1	1.765	2.669	10.3	18.1
12 27	3 37.84	- 0 7.2	1.525	2.314	18.0	20.8	12 27	3 34.78	+16 18.2	1.847	2.675	13.7	18.4
101229	1998 SJ ₇₁		11 23.8	51°17	3°5/24.9	18	146617	2001 TJ ₂₂₂		11 23.8	35°99	2°9/25.1	18
10 18	4 33.47	+26 47.2	1.203	2.025	20.8	18.7	10 18	4 26.91	+28 23.5	1.926	2.722	15.0	20.1
10 28	4 27.93	+27 29.7	1.158	2.052	16.2	18.5	10 28	4 22.03	+28 42.4	1.846	2.724	11.9	19.9
11 7	4 18.66	+27 59.6	1.133	2.079	11.1	18.3	11 7	4 14.56	+28 51.2	1.788	2.726	8.3	19.7
11 17	4 6.83	+28 13.3	1.131	2.107	5.8	18.0	11 17	4 5.19	+28 47.9	1.755	2.729	4.6	19.5
11 27	3 54.26	+28 10.3	1.153	2.135	3.7	18.0	11 27	3 55.03	+28 32.6	1.751	2.731	3.0	19.4
12 7	3 42.92	+27 54.2	1.202	2.163	7.7	18.3	12 7	3 45.35	+28 7.6	1.775	2.733	5.9	19.6
12 17	3 34.29	+27 31.7	1.276	2.192	12.3	18.7	12 17	3 37.27	+27 37.3	1.826	2.736	9.6	19.8
12 27	3 29.28	+27 10.0	1.371	2.220	16.3	19.0	12 27	3 31.64	+27 7.0	1.902	2.738	13.0	20.0
47586	2000 AE ₁₉₃		11 23.8	232°10	6°2/20.4	18	313242	2001 UM ₆₇		11 23.8	339°16	0°3/23.7	18
10 18	4 23.55	+											

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
33722	1999 <i>NO</i>		11 23.8 329°75	0°2/23.9	18		298387	2003 <i>SV</i> ₁₄₈		11 23.8 48°57	1°6/24.5	18	
10 18	4 24.87	+21 44.2	1.997	2.808	14.1	18.8	10 18	4 27.99	+25 2.1	1.471	2.290	17.8	20.7
10 28	4 20.25	+21 42.6	1.914	2.805	10.9	18.6	10 28	4 23.22	+25 7.1	1.413	2.307	13.8	20.5
11 7	4 13.30	+21 35.2	1.854	2.803	7.1	18.4	11 7	4 15.42	+25 1.9	1.376	2.325	9.2	20.2
11 17	4 4.65	+21 22.1	1.820	2.801	3.0	18.1	11 17	4 5.54	+24 45.7	1.363	2.342	4.2	20.0
11 27	3 55.29	+21 5.0	1.814	2.799	1.4	18.0	11 27	3 54.96	+24 20.3	1.376	2.361	2.1	19.9
12 7	3 46.33	+20 46.2	1.838	2.798	5.6	18.3	12 7	3 45.23	+23 49.6	1.417	2.379	6.6	20.2
12 17	3 38.77	+20 29.2	1.889	2.796	9.5	18.5	12 17	3 37.57	+23 19.0	1.484	2.398	11.1	20.5
12 27	3 33.40	+20 17.1	1.964	2.794	12.9	18.8	12 27	3 32.82	+22 53.8	1.574	2.418	14.9	20.8
470956	2009 <i>PC</i> ₂₀		11 23.8 69°15	1°5/23.3	18		390599	2001 <i>SE</i> ₃₁₁		11 23.8 96°37	10°4/17.6	15	
10 18	4 30.54	+18 51.8	1.352	2.180	18.6	21.4	10 18	4 25.42	-9 21.6	2.200	2.969	14.2	21.6
10 28	4 25.07	+18 28.4	1.302	2.203	14.2	21.2	10 28	4 19.95	-11 9.2	2.168	2.995	12.4	21.5
11 7	4 16.53	+17 59.6	1.273	2.227	9.2	21.0	11 7	4 12.68	-12 41.0	2.158	3.020	11.0	21.5
11 17	4 5.93	+17 27.4	1.267	2.250	3.8	20.7	11 17	4 4.27	-13 50.1	2.173	3.044	10.4	21.5
11 27	3 54.78	+16 55.7	1.289	2.273	2.5	20.7	11 27	3 55.57	-14 31.9	2.214	3.068	10.9	21.5
12 7	3 44.62	+16 28.9	1.338	2.296	7.5	21.1	12 7	3 47.44	-14 45.0	2.279	3.092	12.0	21.7
12 17	3 36.69	+16 11.1	1.412	2.319	12.1	21.4	12 17	3 40.62	-14 30.9	2.366	3.115	13.5	21.8
12 27	3 31.77	+16 4.9	1.509	2.342	16.0	21.7	12 27	3 35.65	-13 53.4	2.473	3.137	15.0	22.0
344966	2004 <i>XA</i> ₂₃		11 23.8 27°21	4°0/23.2	18		318359	2004 <i>TP</i> ₃₄₉		11 23.8 41°54	3°1/25.0	18	
10 18	4 29.92	+9 12.4	1.408	2.235	18.0	19.2	10 18	4 27.26	+28 1.5	1.913	2.710	15.1	20.1
10 28	4 24.75	+9 34.4	1.344	2.242	14.1	19.0	10 28	4 22.28	+28 35.3	1.841	2.719	11.9	19.9
11 7	4 16.52	+10 4.3	1.300	2.249	9.6	18.8	11 7	4 14.71	+28 59.8	1.790	2.728	8.3	19.7
11 17	4 6.04	+10 43.3	1.280	2.257	5.2	18.5	11 17	4 5.26	+29 12.7	1.765	2.737	4.7	19.5
11 27	3 54.67	+11 32.1	1.287	2.265	4.5	18.5	11 27	3 55.06	+29 13.4	1.768	2.747	3.2	19.5
12 7	3 43.95	+12 29.9	1.322	2.274	8.4	18.8	12 7	3 45.36	+29 3.8	1.800	2.757	6.0	19.6
12 17	3 35.21	+13 35.2	1.382	2.283	12.8	19.0	12 17	3 37.30	+28 47.4	1.859	2.767	9.6	19.9
12 27	3 29.40	+14 46.7	1.465	2.293	16.6	19.3	12 27	3 31.69	+28 29.3	1.942	2.778	12.8	20.1
184337	2005 <i>GN</i> ₁₄₃		11 23.8 151°14	4°7/21.8	17		82484	2001 <i>OH</i> ₃₆		11 23.8 346°90	5°2/21.5	18	
10 18	4 28.35	+11 29.7	1.679	2.499	15.9	20.9	10 18	4 22.86	+9 47.1	1.695	2.524	15.3	19.2
10 28	4 23.00	+10 33.6	1.611	2.505	12.4	20.7	10 28	4 18.88	+8 53.0	1.622	2.521	12.0	19.0
11 7	4 15.09	+9 37.4	1.565	2.511	8.5	20.5	11 7	4 12.48	+8 0.4	1.572	2.518	8.5	18.8
11 17	4 5.37	+8 45.8	1.544	2.517	5.2	20.3	11 17	4 4.34	+7 14.1	1.546	2.516	5.6	18.6
11 27	3 55.01	+8 4.2	1.552	2.522	5.3	20.3	11 27	3 55.50	+6 39.5	1.547	2.514	5.8	18.6
12 7	3 45.25	+7 36.6	1.588	2.526	8.6	20.5	12 7	3 47.13	+6 20.5	1.576	2.512	8.8	18.8
12 17	3 37.17	+7 25.8	1.649	2.530	12.3	20.7	12 17	3 40.25	+6 19.1	1.629	2.510	12.4	19.0
12 27	3 31.58	+7 32.1	1.733	2.533	15.7	21.0	12 27	3 35.67	+6 35.4	1.704	2.509	15.7	19.2
207944	1981 <i>EG</i> ₈		11 23.8 201°06	1°2/24.4	18		22508	1997 <i>WZ</i> ₄₂		11 23.8 36°25	0°7/23.5	18	
10 18	4 28.02	+25 27.8	2.359	3.147	12.9	21.2	10 18	4 23.24	+19 28.7	2.002	2.818	13.8	18.6
10 28	4 22.36	+25 19.6	2.265	3.142	10.0	21.0	10 28	4 18.82	+19 18.3	1.934	2.829	10.6	18.5
11 7	4 14.53	+25 3.2	2.195	3.137	6.7	20.8	11 7	4 12.25	+19 3.5	1.888	2.839	6.8	18.3
11 17	4 5.14	+24 38.1	2.153	3.132	3.1	20.6	11 17	4 4.19	+18 45.6	1.868	2.850	2.8	18.0
11 27	3 55.09	+24 5.5	2.141	3.125	1.5	20.4	11 27	3 55.59	+18 26.6	1.877	2.862	1.6	18.0
12 7	3 45.40	+23 28.4	2.160	3.118	5.0	20.7	12 7	3 47.48	+18 9.2	1.915	2.874	5.6	18.3
12 17	3 37.00	+22 50.5	2.208	3.111	8.6	20.9	12 17	3 40.76	+17 56.2	1.981	2.886	9.3	18.5
12 27	3 30.62	+22 15.9	2.282	3.102	11.7	21.1	12 27	3 36.11	+17 49.9	2.071	2.898	12.4	18.7
234654	2002 <i>EP</i> ₈		11 23.8 123°02	4°2/21.9	18		521519	2015 <i>OR</i> ₉₇		11 23.8 133°26	7°5/20.6	18	
10 18	4 25.83	+11 49.8	1.759	2.581	15.2	20.5	10 18	4 25.96	-0 18.7	2.071	2.869	14.1	21.8
10 28	4 21.00	+11 0.9	1.689	2.585	11.8	20.3	10 28	4 20.64	-1 9.1	2.009	2.877	11.5	21.6
11 7	4 13.76	+10 12.1	1.642	2.590	8.0	20.1	11 7	4 13.31	-1 49.9	1.970	2.886	9.1	21.5
11 17	4 4.83	+9 27.4	1.621	2.594	4.8	19.9	11 17	4 4.60	-2 16.1	1.957	2.893	7.6	21.4
11 27	3 55.27	+8 51.5	1.627	2.598	4.9	19.9	11 27	3 55.41	-2 23.7	1.971	2.901	7.9	21.4
12 7	3 46.25	+8 28.2	1.662	2.602	8.1	20.1	12 7	3 46.70	-2 11.0	2.012	2.908	9.7	21.6
12 17	3 38.78	+8 19.9	1.722	2.606	11.7	20.4	12 17	3 39.31	-1 38.7	2.079	2.915	12.1	21.7
12 27	3 33.63	+8 27.1	1.806	2.610	15.0	20.6	12 27	3 33.89	-0 49.2	2.168	2.922	14.4	21.9
436127	2009 <i>TW</i> ₃₆		11 23.8 33°79	0°7/23.9	18		234608	2002 <i>AV</i> ₅₀		11 23.8 315°30	2°1/23.1	18	
10 18	4 29.55	+20 25.4	1.238	2.073	19.5	20.2	10 18	4 24.51	+17 1.5	1.427	2.263	17.3	20.8
10 28	4 25.02	+20 55.9	1.178	2.082	15.1	20.0	10 28	4 20.96	+16 43.4	1.340	2.246	13.5	20.5
11 7	4 16.96	+21 25.1	1.138	2.092	9.9	19.7	11 7	4 14.33	+16 21.3	1.274	2.230	8.9	20.2
11 17	4 6.28	+21 48.5	1.120	2.102	4.2	19.4	11 17	4 5.27	+15 57.3	1.232	2.214	4.0	19.8
11 27	3 54.58	+22 5.5	1.128	2.114	1.9	19.3	11 27	3 55.03	+15 34.9	1.215	2.198	3.1	19.7
12 7	3 43.70	+22 17.8	1.163	2.126	7.6	19.7	12 7	3 45.15	+15 18.1	1.225	2.183	8.0	20.0
12 17	3 35.17	+22 28.7	1.221	2.138	12.7	20.0	12 17	3 37.05	+15 11.0	1.260	2.169	13.1	20.2
12 27	3 30.02	+22 42.2	1.302	2.151	17.0	20.3	12 27	3 31.86	+15 16.3	1.315	2.155	17.5	20.5
76523	2000 <i>GH</i> ₅₁		11 23.8 346°03	1°0/24.1	18		159355	2007 <i>EA</i> ₁₃₈		11 23.8 43°65	1°3/24.3	18	
10 18	4 23.97	+21 57.5	1.398	2.232	17.7	17.9	10 18	4 26.43	+23 32.9	2.119	2.920	13.7	20.0
10 28	4 20.66	+22 20.1	1.319	2.223	13.9	17.6	10 28	4 21.37	+23 55.8	2.038	2.922	10.6	19.8
11 7	4 14.16	+22 37.1	1.260	2.214	9.2	17.3	11 7	4 14.00	+24 13.0	1.980	2.925	7.1	19.6
11 17	4 5.19	+22 47.3	1.225	2.206	4.1	17.0	11 17	4 4.96	+24 23.7	1.949	2.928	3.3	19.4
11 27	3 55.05	+22 50.9	1.215	2.200	1.9	16.9	11 27	3 55.22	+24 27.7	1.947	2.931	1.7	19.3
12 7	3 45.35	+22 49.9	1.231	2.194	7.1	17.2	12 7	3 45.85	+24 26.5	1.974	2.934	5.3	19.5
12 17	3 37.57	+22 48.1	1.272	2.190	12.1	17.5	12 17	3 37.85	+24 22.8	2.030	2.937	9.0	19.8
12 27	3 32.81	+22 49.8	1.334	2.187	16.5	17.7	12 27	3 32.01	+24 19.8	2.110	2.940	12.2	20.0
291304	2006 <i>BF</i> ₁₄₇		11 23.8 304°59	0°1/23.8	17		143118	2002 <i>XJ</i> ₂₈					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
151419	2002 EA ₁₅₀		11 23.8 107°58	1°1/23.2	18		519253	2010 XC ₉₃		11 23.8 170°22	1°7/23.3	18	
10 18	4 25.11	+17 48.9	2.667	3.466	11.3	21.1	10 18	4 31.08	+16 27.0	1.618	2.435	16.5	21.7
10 28	4 19.57	+17 30.8	2.602	3.488	8.6	21.0	10 28	4 25.46	+16 26.6	1.543	2.437	12.8	21.4
11 7	4 12.41	+17 10.0	2.562	3.510	5.5	20.8	11 7	4 16.94	+16 24.6	1.488	2.439	8.4	21.2
11 17	4 4.19	+16 47.8	2.551	3.532	2.4	20.6	11 17	4 6.28	+16 21.8	1.459	2.441	3.7	20.9
11 27	3 55.63	+16 26.0	2.570	3.553	1.7	20.6	11 27	3 54.72	+16 20.0	1.459	2.442	2.5	20.8
12 7	3 47.52	+16 6.8	2.620	3.573	4.7	20.9	12 7	3 43.69	+16 21.5	1.487	2.443	7.1	21.1
12 17	3 40.51	+15 52.2	2.700	3.593	7.6	21.1	12 17	3 34.48	+16 28.8	1.541	2.443	11.6	21.4
12 27	3 35.14	+15 43.9	2.806	3.613	10.1	21.3	12 27	3 28.02	+16 44.0	1.619	2.443	15.5	21.6
24983	1998 KZ ₃₈		11 23.8 143°54	2°3/25.2	18		208864	2002 SB ₄₈		11 23.8 98°96	0°7/23.5	18	
10 18	4 28.93	+30 3.6	2.076	2.859	14.5	18.1	10 18	4 27.65	+20 4.0	1.974	2.782	14.3	21.1
10 28	4 23.22	+29 38.1	1.996	2.868	11.5	17.9	10 28	4 22.13	+19 44.6	1.909	2.800	10.9	20.9
11 7	4 15.12	+28 58.9	1.940	2.876	7.9	17.7	11 7	4 14.36	+19 20.0	1.868	2.818	7.1	20.7
11 17	4 5.37	+28 6.0	1.909	2.883	4.2	17.5	11 17	4 5.08	+18 51.4	1.853	2.835	2.9	20.5
11 27	3 55.08	+27 1.4	1.908	2.890	2.4	17.4	11 27	3 55.31	+18 21.3	1.868	2.852	1.6	20.4
12 7	3 45.42	+25 49.9	1.938	2.897	5.4	17.6	12 7	3 46.15	+17 52.9	1.912	2.869	5.7	20.8
12 17	3 37.36	+24 37.6	1.996	2.903	9.1	17.8	12 17	3 38.53	+17 29.7	1.984	2.885	9.5	21.0
12 27	3 31.65	+23 30.6	2.080	2.909	12.4	18.0	12 27	3 33.11	+17 14.3	2.081	2.902	12.7	21.3
311848	2006 VN ₉₅		11 23.8 340°11	1°5/23.1	18		265030	2003 NE ₂		11 23.8 40°39	10°2/20.9	18	
10 18	4 24.00	+18 36.8	1.854	2.674	14.6	21.1	10 18	4 24.92	- 6 33.6	1.754	2.548	16.3	19.8
10 28	4 19.67	+18 6.4	1.774	2.672	11.2	20.9	10 28	4 20.02	- 7 24.1	1.715	2.570	13.9	19.7
11 7	4 12.96	+17 30.8	1.717	2.670	7.3	20.6	11 7	4 12.94	- 7 57.1	1.697	2.592	11.7	19.6
11 17	4 4.55	+16 52.0	1.686	2.668	3.1	20.4	11 17	4 4.47	- 8 6.8	1.702	2.614	10.4	19.6
11 27	3 55.45	+16 13.4	1.684	2.667	2.3	20.3	11 27	3 55.62	- 7 49.8	1.731	2.637	10.5	19.7
12 7	3 46.81	+15 38.9	1.709	2.665	6.4	20.6	12 7	3 47.46	- 7 6.4	1.786	2.660	12.0	19.8
12 17	3 39.63	+15 12.3	1.762	2.664	10.4	20.8	12 17	3 40.87	- 5 59.5	1.864	2.684	14.0	20.0
12 27	3 34.70	+14 56.4	1.838	2.663	13.9	21.0	12 27	3 36.44	- 4 34.1	1.963	2.708	16.0	20.2
358239	2006 SO ₃₃₅		11 23.8 101°40	5°3/21.1	18		240953	2006 HD ₃₅		11 23.8 252°90	0°8/23.4	18	
10 18	4 24.54	+ 7 51.2	1.982	2.797	14.0	21.0	10 18	4 26.05	+20 23.3	1.833	2.648	15.0	21.0
10 28	4 19.66	+ 6 52.1	1.919	2.808	11.0	20.8	10 28	4 21.39	+19 55.8	1.746	2.640	11.6	20.7
11 7	4 12.71	+ 5 56.2	1.880	2.819	7.9	20.7	11 7	4 14.20	+19 21.2	1.681	2.632	7.6	20.5
11 17	4 4.37	+ 5 8.1	1.867	2.830	5.6	20.6	11 17	4 5.13	+18 41.0	1.642	2.624	3.1	20.2
11 27	3 55.56	+ 4 32.3	1.882	2.840	5.8	20.6	11 27	3 55.26	+17 58.3	1.632	2.616	1.9	20.1
12 7	3 47.27	+ 4 12.1	1.926	2.851	8.3	20.8	12 7	3 45.81	+17 17.4	1.650	2.608	6.4	20.4
12 17	3 40.35	+ 4 8.7	1.995	2.861	11.2	21.0	12 17	3 37.88	+16 42.8	1.696	2.599	10.6	20.6
12 27	3 35.44	+ 4 21.7	2.088	2.871	14.0	21.2	12 27	3 32.32	+16 18.1	1.765	2.591	14.3	20.8
242006	2002 PM ₇₂		11 23.8 141°71	2°0/24.9	18		31428	1999 BG ₆		11 23.8 249°05	7°3/20.4	18	
10 18	4 27.87	+28 56.2	2.043	2.832	14.5	20.6	10 18	4 25.53	+ 4 30.8	1.760	2.577	15.4	18.7
10 28	4 22.46	+28 31.6	1.963	2.839	11.4	20.4	10 28	4 20.91	+ 3 21.8	1.682	2.568	12.4	18.5
11 7	4 14.66	+27 54.2	1.906	2.845	7.8	20.2	11 7	4 13.84	+ 2 17.7	1.626	2.559	9.5	18.3
11 17	4 5.21	+27 3.9	1.875	2.851	4.0	20.0	11 17	4 4.98	+ 1 24.8	1.596	2.549	7.5	18.2
11 27	3 55.18	+26 3.0	1.874	2.857	2.2	19.9	11 27	3 55.34	+ 0 49.1	1.592	2.539	7.9	18.2
12 7	3 45.75	+24 56.1	1.902	2.862	5.5	20.1	12 7	3 46.10	+ 0 34.9	1.615	2.529	10.4	18.3
12 17	3 37.90	+23 49.1	1.959	2.867	9.2	20.4	12 17	3 38.32	+ 0 43.3	1.662	2.518	13.6	18.5
12 27	3 32.37	+22 47.7	2.042	2.872	12.5	20.6	12 27	3 32.82	+ 1 13.3	1.731	2.508	16.6	18.7
298424	2003 SG ₄₂₃		11 23.8 356°71	7°0/20.1	18		521509	2015 OO ₉₆		11 23.8 105°90	4°2/25.9	18	
10 18	4 22.84	+ 7 59.1	1.596	2.428	16.0	20.8	10 18	4 30.43	+32 29.2	2.033	2.808	15.1	21.5
10 28	4 18.94	+ 6 22.3	1.529	2.427	12.7	20.6	10 28	4 24.63	+32 56.4	1.961	2.822	12.1	21.3
11 7	4 12.55	+ 4 46.7	1.484	2.426	9.4	20.4	11 7	4 16.20	+33 10.8	1.911	2.835	8.8	21.2
11 17	4 4.39	+ 3 19.9	1.465	2.425	7.1	20.3	11 17	4 5.92	+33 9.8	1.886	2.848	5.6	21.0
11 27	3 55.56	+ 2 9.9	1.472	2.425	7.8	20.3	11 27	3 54.94	+32 52.7	1.890	2.861	4.2	20.9
12 7	3 47.28	+ 1 22.6	1.505	2.425	10.6	20.5	12 7	3 44.56	+32 22.2	1.922	2.874	6.2	21.1
12 17	3 40.59	+ 1 0.5	1.562	2.425	13.9	20.7	12 17	3 35.89	+31 43.0	1.983	2.886	9.4	21.3
12 27	3 36.26	+ 1 3.0	1.640	2.426	17.0	20.9	12 27	3 29.73	+31 1.2	2.068	2.898	12.4	21.5
403749	2011 AC ₅₆		11 23.8 328°44	3°0/22.9	17		72909	2001 NH		11 23.8 184°35	4°1/25.5	18	
10 18	4 25.86	+11 20.0	1.906	2.723	14.4	20.4	10 18	4 31.54	+30 54.4	1.731	2.520	16.7	19.7
10 28	4 21.11	+11 30.2	1.820	2.714	11.2	20.2	10 28	4 26.06	+31 19.9	1.650	2.521	13.5	19.5
11 7	4 13.96	+11 44.0	1.757	2.705	7.6	19.9	11 7	4 17.47	+31 32.5	1.589	2.521	9.6	19.2
11 17	4 5.02	+12 2.9	1.719	2.697	4.0	19.7	11 17	4 6.55	+31 28.8	1.552	2.520	5.8	19.0
11 27	3 55.24	+12 28.3	1.711	2.689	3.5	19.6	11 27	3 54.62	+31 7.8	1.543	2.520	4.2	18.9
12 7	3 45.77	+13 0.9	1.731	2.681	6.9	19.8	12 7	3 43.24	+30 32.3	1.563	2.519	6.9	19.1
12 17	3 37.65	+13 41.0	1.778	2.674	10.7	20.1	12 17	3 33.79	+29 48.1	1.609	2.517	10.8	19.3
12 27	3 31.73	+14 28.4	1.850	2.668	14.1	20.3	12 27	3 27.28	+29 2.5	1.679	2.515	14.5	19.5
16869	Košinár		11 23.8 5°75	2°6/22.8	18		86481	2000 CX ₁₀₂		11 23.8 233°89	0°8/24.2	18	
10 18	4 24.24	+18 26.6	1.116	1.969	20.0	17.2	10 18	4 29.23	+23 51.7	1.817	2.622	15.5	21.0
10 28	4 21.16	+17 39.6	1.053	1.968	15.5	16.9	10 28	4 24.02	+23 44.9	1.724	2.612	12.1	20.8
11 7	4 14.56	+16 44.3	1.009	1.968	10.1	16.6	11 7	4 16.03	+23 29.4	1.654	2.601	8.1	20.5
11 17	4 5.35	+15 45.1	0.987	1.970	4.5	16.3	11 17	4 5.95	+23 4.7	1.609	2.590	3.6	20.2
11 27	3 55.13	+14 48.5	0.989	1.972	3.7	16.3	11 27	3 54.89	+22 32.3	1.593	2.578	1.6	20.1
12 7	3 45.71	+14 1.8	1.016	1.975	9.1	16.6	12 7	3 44.21	+21 55.6	1.606	2.566	6.2	20.4
12 17	3 38.61	+13 31.1	1.065	1.979	14.5	16.9	12 17	3 35.16	+21 19.5	1.646	2.553	10.7	20.6
12 27	3 34.84	+13 19.4	1.134	1.983	19.0	17.2	12 27	3 28.69	+20 49.2	1.711	2.540	14.5	20.8
514716	2006 UK ₁₃₀		11 23.8 138°07	0°0/23.8	18		323194	2003 QA ₄₅		11 23.8 76°09	0°1/23.9	17	R
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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
140528	2001 TY ₁₇₄		11 23.8 201°75	1°8/24.6	18		224993	2007 EM ₁₂₇		11 23.8 131°46	0°6/23.5	18	
10 18	4 27.72	+25 41.9	2.249	3.040	13.3	20.2	10 18	4 24.36	+19 56.3	2.283	3.089	12.7	21.0
10 28	4 22.33	+25 57.8	2.160	3.037	10.4	20.0	10 28	4 19.50	+19 39.2	2.204	3.093	9.7	20.8
11 7	4 14.65	+26 6.5	2.094	3.034	7.1	19.8	11 7	4 12.66	+19 17.3	2.148	3.098	6.3	20.6
11 17	4 5.30	+26 6.7	2.054	3.031	3.5	19.6	11 17	4 4.44	+18 51.9	2.120	3.102	2.6	20.4
11 27	3 55.21	+25 58.7	2.045	3.028	2.0	19.5	11 27	3 55.69	+18 24.9	2.121	3.106	1.5	20.3
12 7	3 45.46	+25 44.1	2.065	3.024	5.2	19.7	12 7	3 47.34	+17 59.2	2.153	3.110	5.2	20.6
12 17	3 37.03	+25 26.1	2.115	3.020	8.7	19.9	12 17	3 40.22	+17 37.7	2.212	3.114	8.6	20.8
12 27	3 30.72	+25 8.7	2.189	3.016	11.9	20.1	12 27	3 34.99	+17 22.8	2.298	3.117	11.7	21.0
332922	2011 CN ₁₇		11 23.8 151°31	6°8/19.8	18		516310	2016 YT ₄		11 23.8 190°00	1°9/24.7	18	
10 18	4 22.14	- 3 26.0	2.810	3.590	11.2	20.8	10 18	4 28.68	+26 15.4	1.921	2.719	15.0	21.6
10 28	4 17.29	- 4 12.3	2.745	3.596	9.4	20.7	10 28	4 23.42	+26 23.4	1.837	2.718	11.8	21.4
11 7	4 10.97	- 4 49.5	2.704	3.601	7.7	20.6	11 7	4 15.53	+26 22.1	1.775	2.718	8.0	21.2
11 17	4 3.67	- 5 14.0	2.689	3.606	6.8	20.5	11 17	4 5.72	+26 10.5	1.739	2.717	4.0	20.9
11 27	3 56.00	- 5 22.6	2.703	3.611	7.1	20.6	11 27	3 55.09	+25 48.9	1.732	2.715	2.2	20.8
12 7	3 48.65	- 5 14.3	2.744	3.616	8.4	20.7	12 7	3 44.92	+25 20.2	1.754	2.714	5.8	21.1
12 17	3 42.23	- 4 49.1	2.811	3.620	10.1	20.8	12 17	3 36.34	+24 48.8	1.803	2.712	9.8	21.3
12 27	3 37.23	- 4 8.6	2.901	3.624	11.8	20.9	12 27	3 30.23	+24 19.7	1.878	2.710	13.3	21.5
12437	Westlane		11 23.8 90°86	0°4/23.7	18		403114	2008 CV ₂₀₁		11 23.8 280°88	4°2/25.5	17	
10 18	4 25.81	+19 55.6	2.241	3.045	12.9	18.9	10 18	4 28.46	+31 7.8	2.016	2.799	14.9	21.5
10 28	4 20.54	+19 49.7	2.173	3.061	9.9	18.8	10 28	4 23.40	+31 46.1	1.926	2.793	12.0	21.3
11 7	4 13.27	+19 39.8	2.129	3.078	6.4	18.6	11 7	4 15.64	+32 14.0	1.859	2.788	8.7	21.1
11 17	4 4.65	+19 26.4	2.112	3.094	2.6	18.4	11 17	4 5.81	+32 28.2	1.817	2.782	5.5	20.9
11 27	3 55.56	+19 11.1	2.125	3.109	1.4	18.3	11 27	3 55.02	+32 27.1	1.804	2.777	4.2	20.8
12 7	3 46.95	+18 56.3	2.167	3.125	5.1	18.6	12 7	3 44.57	+32 12.0	1.818	2.771	6.4	20.9
12 17	3 39.66	+18 44.5	2.239	3.141	8.5	18.8	12 17	3 35.68	+31 46.9	1.861	2.765	9.8	21.1
12 27	3 34.31	+18 37.9	2.336	3.156	11.5	19.0	12 27	3 29.30	+31 17.5	1.927	2.760	13.0	21.3
265580	2005 QT ₁₃₅		11 23.8 164°56	0°8/23.5	18		7205	Sadanori		11 23.8 166°16	0°5/24.1	18	
10 18	4 29.78	+19 46.1	1.910	2.716	14.8	21.6	10 18	4 27.35	+23 13.2	2.136	2.935	13.6	17.9
10 28	4 24.02	+19 29.5	1.832	2.721	11.4	21.4	10 28	4 21.99	+23 1.1	2.054	2.939	10.6	17.7
11 7	4 15.77	+19 7.4	1.777	2.726	7.4	21.2	11 7	4 14.38	+22 41.8	1.996	2.942	7.0	17.5
11 17	4 5.75	+18 40.9	1.748	2.730	3.1	20.9	11 17	4 5.18	+22 15.4	1.964	2.945	3.0	17.2
11 27	3 55.05	+18 12.3	1.749	2.733	1.8	20.8	11 27	3 55.36	+21 43.7	1.962	2.947	1.3	17.1
12 7	3 44.86	+17 45.1	1.779	2.736	6.1	21.1	12 7	3 45.99	+21 10.0	1.990	2.949	5.3	17.4
12 17	3 36.26	+17 22.8	1.838	2.738	10.1	21.4	12 17	3 38.02	+20 37.9	2.046	2.950	9.1	17.6
12 27	3 30.02	+17 8.5	1.920	2.739	13.6	21.6	12 27	3 32.19	+20 11.3	2.128	2.951	12.3	17.8
411517	2011 BT ₄₂		11 23.8 266°69	0°5/24.1	17		194835	2001 YZ ₁₅₇		11 23.9 227°97	0°6/24.1	18	
10 18	4 25.29	+21 42.8	2.372	3.171	12.4	21.6	10 18	4 28.74	+22 50.3	1.986	2.788	14.5	21.3
10 28	4 20.36	+21 55.6	2.276	3.161	9.7	21.4	10 28	4 23.41	+22 50.0	1.893	2.779	11.3	21.1
11 7	4 13.34	+22 4.1	2.204	3.151	6.4	21.2	11 7	4 15.54	+22 42.9	1.823	2.769	7.5	20.9
11 17	4 4.77	+22 8.1	2.160	3.141	2.8	20.9	11 17	4 5.75	+22 28.7	1.778	2.759	3.3	20.6
11 27	3 55.48	+22 7.9	2.145	3.130	1.2	20.8	11 27	3 55.09	+22 8.3	1.764	2.749	1.4	20.4
12 7	3 46.42	+22 5.1	2.160	3.120	5.0	21.1	12 7	3 44.76	+21 44.4	1.778	2.738	5.8	20.7
12 17	3 38.51	+22 1.8	2.205	3.109	8.5	21.3	12 17	3 35.89	+21 21.0	1.821	2.726	9.9	20.9
12 27	3 32.48	+22 0.7	2.274	3.098	11.6	21.4	12 27	3 29.36	+21 1.9	1.888	2.714	13.5	21.1
432779	2011 FY ₄₄		11 23.8 161°79	0°3/23.9	18		22163	2000 WF ₁₂₅		11 23.9 74°75	5°0/21.5	18	
10 18	4 30.19	+22 15.6	2.173	2.967	13.6	22.8	10 18	4 26.18	+11 52.2	1.609	2.435	16.2	17.7
10 28	4 24.07	+22 10.3	2.093	2.975	10.5	22.6	10 28	4 21.32	+10 37.9	1.553	2.452	12.5	17.5
11 7	4 15.68	+21 58.7	2.036	2.982	6.9	22.4	11 7	4 13.98	+ 9 23.4	1.520	2.468	8.6	17.4
11 17	4 5.69	+21 41.0	2.007	2.987	2.9	22.2	11 17	4 4.99	+ 8 14.4	1.512	2.484	5.4	17.2
11 27	3 55.09	+21 18.4	2.007	2.993	1.3	22.1	11 27	3 55.51	+ 7 17.2	1.532	2.500	5.6	17.3
12 7	3 44.95	+20 53.8	2.039	2.997	5.3	22.4	12 7	3 46.74	+ 6 36.5	1.579	2.516	8.8	17.5
12 17	3 36.25	+20 30.4	2.099	3.000	9.0	22.6	12 17	3 39.71	+ 6 15.0	1.652	2.532	12.4	17.7
12 27	3 29.72	+20 11.8	2.185	3.003	12.2	22.8	12 27	3 35.09	+ 6 12.6	1.747	2.548	15.5	18.0
509635	2008 FZ ₁₃₁		11 23.8 169°41	1°3/24.3	18		353955	1999 TG ₈₇		11 23.9 0°80	0°6/23.9	18	
10 18	4 31.60	+23 56.2	1.829	2.629	15.6	22.3	10 18	4 26.07	+19 43.2	1.295	2.134	18.6	20.2
10 28	4 25.71	+24 10.0	1.749	2.632	12.2	22.0	10 28	4 22.44	+20 21.7	1.225	2.131	14.5	19.9
11 7	4 17.04	+24 16.5	1.691	2.635	8.1	21.8	11 7	4 15.44	+20 57.9	1.175	2.130	9.6	19.6
11 17	4 6.34	+24 14.4	1.659	2.638	3.7	21.6	11 17	4 5.83	+21 30.2	1.147	2.130	4.1	19.3
11 27	3 54.77	+24 4.1	1.655	2.640	1.8	21.4	11 27	3 55.05	+21 57.8	1.145	2.131	1.9	19.2
12 7	3 43.71	+23 47.8	1.681	2.641	6.1	21.7	12 7	3 44.81	+22 21.3	1.169	2.133	7.4	19.5
12 17	3 34.37	+23 29.6	1.735	2.642	10.3	22.0	12 17	3 36.67	+22 43.1	1.217	2.136	12.5	19.8
12 27	3 27.65	+23 14.1	1.814	2.642	13.9	22.2	12 27	3 31.74	+23 6.3	1.287	2.141	16.9	20.1
149214	2002 QT ₈₄		11 23.8 26°83	0°5/23.9	18		269895	2000 GX ₁₁₅		11 23.9 226°57	0°7/23.5	18	
10 18	4 27.56	+20 28.9	1.068	1.916	21.0	19.3	10 18	4 29.27	+19 38.5	2.051	2.854	14.0	21.7
10 28	4 23.88	+20 53.7	1.016	1.927	16.3	19.0	10 28	4 23.70	+19 24.4	1.954	2.842	10.9	21.5
11 7	4 16.40	+21 13.0	0.982	1.939	10.7	18.8	11 7	4 15.67	+19 5.2	1.881	2.829	7.1	21.3
11 17	4 6.15	+21 25.7	0.969	1.952	4.5	18.5	11 17	4 5.80	+18 41.5	1.834	2.816	3.0	21.0
11 27	3 54.90	+21 32.3	0.981	1.966	2.0	18.4	11 27	3 55.07	+18 15.4	1.817	2.801	1.7	20.8
12 7	3 44.61	+21 35.5	1.017	1.981	8.0	18.8	12 7	3 44.63	+17 49.8	1.830	2.786	6.0	21.1
12 17	3 36.92	+21 39.5	1.076	1.998	13.5	19.1	12 17	3 35.58	+17 28.2	1.871	2.771	10.1	21.3
12 27	3 32.83	+21 48.4	1.155	2.015	18.0	19.5	12 27	3 28.76	+17 14.0	1.938	2.754	13.6	21.5
96234	1993 UG		11 23.8 349°93	19°3/20.8	18		26039	3268 T ₋₁		11 23.9 167°00	3°8/25.4	18	
10 18	4 39.55	+35 21.6</											

EPHEMERIDES

11 23.9

11 23.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
176866	Kuropatkin		11 23.9	5°43	7°1/21.5	18	220143	2002 TO ₁₃₄		11 23.9	73°80	1°4/24.5	18
10 18	4 24.37	+ 4 4.5	1.606	2.430	16.3	20.1	10 18	4 29.81	+26 11.3	1.415	2.232	18.5	20.0
10 28	4 20.15	+ 3 24.2	1.540	2.430	13.1	19.9	10 28	4 24.78	+25 48.8	1.354	2.247	14.4	19.8
11 7	4 13.40	+ 2 52.2	1.495	2.431	9.8	19.7	11 7	4 16.57	+25 12.7	1.314	2.262	9.6	19.6
11 17	4 4.84	+ 2 33.9	1.474	2.432	7.4	19.6	11 17	4 6.17	+24 23.5	1.297	2.277	4.3	19.3
11 27	3 55.56	+ 2 33.7	1.479	2.433	7.6	19.6	11 27	3 55.07	+23 24.7	1.307	2.292	1.9	19.2
12 7	3 46.79	+ 2 53.8	1.510	2.435	10.1	19.8	12 7	3 44.90	+22 22.6	1.345	2.307	6.8	19.6
12 17	3 39.62	+ 3 33.6	1.565	2.438	13.4	20.0	12 17	3 36.94	+21 24.4	1.408	2.322	11.6	19.9
12 27	3 34.85	+ 4 30.8	1.643	2.441	16.5	20.2	12 27	3 32.03	+20 36.4	1.494	2.337	15.6	20.2
83381	2001 SW ₁₄		11 23.9	308°35	1°9/22.9	18	514446	2016 UV ₅₃		11 23.9	202°69	2°3/24.7	18
10 18	4 24.50	+17 9.4	1.908	2.726	14.3	20.0	10 18	4 30.74	+25 31.0	1.746	2.547	16.1	21.9
10 28	4 20.02	+16 41.5	1.828	2.724	11.0	19.8	10 28	4 25.36	+25 59.9	1.663	2.546	12.7	21.7
11 7	4 13.22	+16 9.9	1.770	2.722	7.2	19.5	11 7	4 17.03	+26 21.1	1.602	2.544	8.7	21.4
11 17	4 4.75	+15 36.6	1.738	2.719	3.3	19.3	11 17	4 6.46	+26 32.2	1.566	2.543	4.4	21.2
11 27	3 55.60	+15 4.8	1.735	2.717	2.6	19.2	11 27	3 54.89	+26 32.3	1.558	2.541	2.6	21.1
12 7	3 46.86	+14 38.1	1.761	2.715	6.4	19.5	12 7	3 43.75	+26 23.4	1.579	2.538	6.4	21.3
12 17	3 39.55	+14 19.7	1.813	2.713	10.3	19.7	12 17	3 34.37	+26 9.3	1.627	2.536	10.6	21.5
12 27	3 34.42	+14 11.9	1.890	2.711	13.7	19.9	12 27	3 27.76	+25 55.2	1.699	2.533	14.4	21.8
106885	2000 YY ₃₇		11 23.9	263°33	2°7/22.7	18	264863	2002 RN ₁₄₃		11 23.9	122°65	1°2/24.6	18
10 18	4 26.16	+14 49.7	1.831	2.650	14.8	20.0	10 18	4 24.28	+25 47.1	1.628	2.417	11.7	20.9
10 28	4 21.50	+14 24.5	1.742	2.638	11.5	19.7	10 28	4 19.24	+25 38.2	1.549	2.426	9.1	20.7
11 7	4 14.32	+13 57.3	1.676	2.627	7.7	19.5	11 7	4 12.42	+25 21.7	1.494	2.435	6.1	20.5
11 17	4 5.27	+13 30.7	1.636	2.615	3.8	19.2	11 17	4 4.38	+24 57.9	1.466	2.444	2.9	20.3
11 27	3 55.36	+13 7.7	1.624	2.604	3.4	19.2	11 27	3 55.89	+24 28.1	1.469	2.453	1.4	20.2
12 7	3 45.79	+12 51.8	1.641	2.592	7.2	19.4	12 7	3 47.79	+23 54.6	1.502	2.462	4.4	20.5
12 17	3 37.66	+12 45.8	1.684	2.580	11.2	19.6	12 17	3 40.82	+23 20.8	1.565	2.470	7.4	20.7
12 27	3 31.85	+12 51.5	1.751	2.567	14.8	19.8	12 27	3 35.58	+22 49.8	1.654	2.478	10.1	20.9
265078	2003 SN ₁₆₀		11 23.9	308°25	2°5/24.9	17	27383	Braebenedict		11 23.9	149°05	4°4/22.2	18
10 18	4 26.45	+27 22.4	2.275	3.064	13.2	20.1	10 18	4 28.09	+11 14.0	1.686	2.505	15.8	19.1
10 28	4 21.40	+27 49.2	2.188	3.063	10.4	19.9	10 28	4 22.93	+10 35.5	1.615	2.510	12.3	18.9
11 7	4 14.09	+28 8.4	2.124	3.062	7.2	19.7	11 7	4 15.18	+ 9 58.0	1.567	2.514	8.4	18.7
11 17	4 5.13	+28 18.3	2.087	3.061	4.0	19.5	11 17	4 5.61	+ 9 25.6	1.544	2.518	5.0	18.5
11 27	3 55.43	+28 18.4	2.080	3.060	2.6	19.4	11 27	3 55.33	+ 9 2.2	1.549	2.521	4.9	18.5
12 7	3 46.06	+28 10.1	2.101	3.059	5.3	19.6	12 7	3 45.60	+ 8 51.5	1.582	2.524	8.3	18.7
12 17	3 38.00	+27 56.3	2.152	3.058	8.6	19.8	12 17	3 37.52	+ 8 55.1	1.641	2.527	12.1	18.9
12 27	3 32.02	+27 41.1	2.227	3.057	11.6	20.0	12 27	3 31.90	+ 9 13.4	1.723	2.530	15.5	19.1
514291	2015 TY ₁₆		11 23.9	102°57	6°9/21.2	18	75937	2000 CK ₇₈		11 23.9	50°55	0°8/24.2	18
10 18	4 27.00	+ 0 52.2	2.067	2.865	14.1	21.3	10 18	4 26.48	+23 36.5	1.808	2.618	15.3	19.5
10 28	4 21.41	+ 0 13.2	2.011	2.882	11.4	21.1	10 28	4 21.77	+23 30.9	1.730	2.621	11.9	19.3
11 7	4 13.83	- 0 16.4	1.978	2.898	8.8	21.0	11 7	4 14.49	+23 17.2	1.675	2.623	7.9	19.1
11 17	4 4.91	- 0 32.4	1.971	2.915	7.1	20.9	11 17	4 5.35	+22 55.4	1.645	2.626	3.4	18.8
11 27	3 55.58	- 0 31.4	1.992	2.930	7.2	21.0	11 27	3 55.46	+22 27.1	1.643	2.628	1.5	18.7
12 7	3 46.79	- 0 12.4	2.041	2.946	9.1	21.1	12 7	3 46.08	+21 55.9	1.670	2.631	5.9	19.0
12 17	3 39.37	+ 0 24.0	2.116	2.961	11.5	21.3	12 17	3 38.32	+21 26.0	1.724	2.634	10.1	19.2
12 27	3 33.93	+ 1 15.4	2.214	2.976	13.9	21.5	12 27	3 33.00	+21 1.7	1.802	2.637	13.7	19.5
328002	2007 HQ ₄		11 23.9	84°44	0°4/23.7	18	76591	2000 GJ ₁₄₃		11 23.9	70°94	1°2/24.3	18
10 18	4 25.85	+18 45.8	2.261	3.065	12.8	20.4	10 18	4 27.32	+22 39.2	2.355	3.149	12.7	19.1
10 28	4 20.67	+18 54.8	2.186	3.074	9.8	20.2	10 28	4 21.86	+23 12.3	2.275	3.156	9.8	18.9
11 7	4 13.45	+19 1.2	2.134	3.083	6.4	20.0	11 7	4 14.31	+23 41.3	2.219	3.162	6.5	18.7
11 17	4 4.81	+19 5.2	2.110	3.092	2.6	19.8	11 17	4 5.23	+24 5.1	2.190	3.169	3.0	18.5
11 27	3 55.61	+19 7.7	2.116	3.101	1.4	19.7	11 27	3 55.51	+24 23.0	2.192	3.176	1.5	18.4
12 7	3 46.81	+19 10.2	2.152	3.109	5.1	20.0	12 7	3 46.12	+24 36.0	2.224	3.183	4.9	18.7
12 17	3 39.26	+19 14.5	2.216	3.118	8.6	20.2	12 17	3 37.98	+24 45.7	2.285	3.190	8.2	18.9
12 27	3 33.64	+19 22.7	2.306	3.127	11.6	20.4	12 27	3 31.79	+24 54.8	2.372	3.196	11.2	19.1
307935	2004 EP ₆₅		11 23.9	213°33	0°7/23.6	18	265445	2004 XD ₈₀		11 23.9	220°23	6°0/28.8	18
10 18	4 27.17	+18 27.3	2.336	3.136	12.6	21.4	10 18	4 29.70	+45 16.8	3.051	3.746	12.1	20.3
10 28	4 21.75	+18 28.2	2.243	3.130	9.7	21.2	10 28	4 23.66	+45 28.0	2.948	3.737	10.4	20.2
11 7	4 14.23	+18 26.4	2.175	3.123	6.4	20.9	11 7	4 15.44	+45 23.5	2.867	3.728	8.6	20.0
11 17	4 5.17	+18 22.3	2.135	3.116	2.7	20.7	11 17	4 5.68	+45 0.3	2.811	3.719	7.0	19.9
11 27	3 55.43	+18 16.9	2.125	3.109	1.5	20.6	11 27	3 55.32	+44 17.1	2.783	3.709	6.1	19.8
12 7	3 45.97	+18 12.2	2.145	3.101	5.3	20.8	12 7	3 45.39	+43 15.8	2.784	3.699	6.5	19.9
12 17	3 37.70	+18 10.3	2.194	3.093	8.8	21.1	12 17	3 36.82	+42 0.5	2.813	3.688	8.0	19.9
12 27	3 31.34	+18 13.2	2.269	3.084	11.9	21.2	12 27	3 30.33	+40 37.3	2.870	3.678	9.9	20.1
227368	2005 UP ₁₇₂		11 23.9	60°81	2°8/24.6	18	205417	2001 FC ₁₂₉		11 23.9	280°28	0°9/23.5	18
10 18	4 34.15	+24 28.5	1.378	2.193	19.0	20.1	10 18	4 26.62	+18 45.7	1.798	2.614	15.1	20.9
10 28	4 28.29	+25 21.3	1.324	2.214	14.8	19.9	10 28	4 22.05	+18 40.1	1.705	2.600	11.8	20.6
11 7	4 18.98	+26 6.3	1.289	2.235	10.0	19.6	11 7	4 14.82	+18 30.4	1.635	2.586	7.7	20.4
11 17	4 7.21	+26 39.7	1.279	2.256	5.0	19.4	11 17	4 5.57	+18 17.6	1.590	2.572	3.3	20.1
11 27	3 54.56	+26 59.5	1.295	2.278	3.1	19.4	11 27	3 55.34	+18 3.3	1.573	2.558	1.9	20.0
12 7	3 42.82	+27 7.4	1.339	2.300	7.2	19.7	12 7	3 45.41	+17 50.4	1.585	2.544	6.5	20.2
12 17	3 33.47	+27 7.8	1.409	2.321	11.7	20.0	12 17	3 36.96	+17 42.0	1.624	2.529	10.9	20.5
12 27	3 27.45	+27 6.4	1.501	2.343	15.6	20.3	12 27	3 30.95	+17 41.2	1.686	2.515	14.8	20.7
178520	1999 TD ₂₁₅		11 23.9	9°34	3°0/22.8	18	269238	2008 QM ₉		11 23.9	50°47	4°3/26.2	17
10 18	4 24.01	+17											

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
486649	2013 <i>PN</i> ₆₃		11 23.9 150°02	1°0/23.3	18		83851	2001 <i>UK</i> ₄₅		11 23.9 136°62	0°6/23.6	18	
10 18	4 23.00	+18 44.9	2.700	3.501	11.1	22.6	10 18	4 26.46	+19 12.9	2.120	2.926	13.5	19.2
10 28	4 18.17	+18 19.2	2.619	3.506	8.5	22.4	10 28	4 21.33	+19 8.3	2.041	2.931	10.4	19.0
11 7	4 11.69	+17 49.8	2.563	3.512	5.5	22.2	11 7	4 14.02	+18 59.8	1.986	2.935	6.8	18.8
11 17	4 4.09	+17 18.1	2.535	3.517	2.3	22.0	11 17	4 5.16	+18 48.3	1.958	2.940	2.8	18.6
11 27	3 56.07	+16 46.2	2.538	3.521	1.6	22.0	11 27	3 55.68	+18 35.3	1.959	2.944	1.5	18.5
12 7	3 48.39	+16 16.7	2.572	3.526	4.7	22.2	12 7	3 46.62	+18 23.0	1.990	2.948	5.5	18.8
12 17	3 41.73	+15 52.1	2.634	3.530	7.7	22.4	12 17	3 38.90	+18 14.2	2.049	2.952	9.2	19.0
12 27	3 36.64	+15 34.4	2.723	3.534	10.3	22.6	12 27	3 33.24	+18 11.2	2.134	2.955	12.4	19.2
452162	2015 <i>RY</i> ₅₇		11 23.9 211°19	5°4/26.2	18		257591	1999 <i>RM</i> ₄		11 23.9 1°47	0°7/23.6	18	
10 18	4 30.69	+34 44.4	2.043	2.810	15.2	21.3	10 18	4 23.47	+19 51.9	1.804	2.625	14.9	20.4
10 28	4 25.21	+35 26.8	1.955	2.808	12.5	21.1	10 28	4 19.44	+19 35.7	1.727	2.625	11.5	20.2
11 7	4 16.90	+35 56.3	1.889	2.805	9.5	20.9	11 7	4 12.99	+19 14.1	1.672	2.624	7.5	20.0
11 17	4 6.43	+36 8.9	1.848	2.802	6.6	20.8	11 17	4 4.78	+18 48.3	1.642	2.624	3.1	19.7
11 27	3 54.97	+36 2.4	1.835	2.799	5.4	20.7	11 27	3 55.85	+18 21.0	1.640	2.625	1.8	19.6
12 7	3 43.91	+35 38.2	1.850	2.796	7.0	20.8	12 7	3 47.38	+17 55.5	1.667	2.626	6.1	19.9
12 17	3 34.53	+35 1.0	1.893	2.792	10.0	21.0	12 17	3 40.41	+17 35.4	1.720	2.628	10.2	20.1
12 27	3 27.78	+34 17.4	1.960	2.789	13.0	21.2	12 27	3 35.73	+17 23.8	1.796	2.630	13.8	20.4
381769	2009 <i>SD</i> ₃₁₇		11 23.9 86°57	4°2/25.3	18		49591	1999 <i>DO</i> ₂		11 23.9 302°29	2°5/24.8	18	
10 18	4 33.71	+29 34.3	1.501	2.300	18.4	21.1	10 18	4 27.81	+26 4.6	2.304	3.093	13.1	17.5
10 28	4 27.95	+30 12.9	1.438	2.316	14.7	20.9	10 28	4 22.58	+26 50.4	2.208	3.083	10.4	17.3
11 7	4 18.80	+30 38.6	1.395	2.331	10.4	20.7	11 7	4 15.02	+27 31.1	2.136	3.073	7.2	17.1
11 17	4 7.19	+30 47.5	1.376	2.347	6.1	20.5	11 17	4 5.67	+28 4.2	2.090	3.064	3.9	16.9
11 27	3 54.68	+30 38.6	1.384	2.362	4.3	20.5	11 27	3 55.41	+28 28.2	2.075	3.054	2.7	16.8
12 7	3 42.99	+30 14.7	1.420	2.377	7.3	20.7	12 7	3 45.34	+28 43.3	2.089	3.045	5.4	17.0
12 17	3 33.60	+29 41.9	1.481	2.392	11.4	20.9	12 17	3 36.49	+28 51.5	2.132	3.036	8.8	17.2
12 27	3 27.46	+29 7.9	1.566	2.406	15.1	21.2	12 27	3 29.72	+28 56.0	2.200	3.027	11.8	17.3
446550	2014 <i>NM</i> ₁₈		11 23.9 54°55	3°0/22.5	18		350898	2002 <i>RX</i> ₃		11 23.9 63°53	4°4/26.4	18	
10 18	4 24.79	+14 11.7	1.806	2.628	14.8	21.0	10 18	4 28.65	+34 46.4	1.756	2.538	16.8	20.4
10 28	4 20.25	+13 37.3	1.738	2.635	11.4	20.8	10 28	4 23.67	+34 34.5	1.682	2.546	13.6	20.2
11 7	4 13.37	+13 1.7	1.692	2.642	7.6	20.6	11 7	4 15.80	+34 4.1	1.629	2.555	9.9	20.0
11 17	4 4.86	+12 27.8	1.671	2.649	4.0	20.4	11 17	4 5.92	+33 13.4	1.600	2.564	6.2	19.8
11 27	3 55.75	+11 59.5	1.679	2.657	3.7	20.4	11 27	3 55.38	+32 3.8	1.599	2.573	4.4	19.8
12 7	3 47.16	+11 40.0	1.715	2.664	7.1	20.6	12 7	3 45.60	+30 40.9	1.625	2.582	6.6	19.9
12 17	3 40.08	+11 31.8	1.778	2.672	10.8	20.9	12 17	3 37.79	+29 12.8	1.679	2.591	10.2	20.1
12 27	3 35.23	+11 36.1	1.864	2.679	14.1	21.1	12 27	3 32.75	+27 47.9	1.758	2.600	13.6	20.4
120635	1996 <i>HE</i> ₁₆		11 23.9 205°82	0°5/24.1	18 R		328373	2008 <i>QG</i> ₂₁		11 23.9 122°40	3°5/26.1	17	
10 18	4 24.63	+22 43.8	2.834	3.624	10.9	20.6	10 18	4 26.09	+33 11.1	2.460	3.228	12.9	20.9
10 28	4 19.48	+22 41.9	2.739	3.619	8.4	20.5	10 28	4 20.96	+33 13.5	2.377	3.234	10.4	20.7
11 7	4 12.62	+22 35.0	2.669	3.614	5.5	20.3	11 7	4 13.73	+33 3.7	2.317	3.240	7.5	20.5
11 17	4 4.52	+22 23.0	2.628	3.608	2.4	20.1	11 17	4 5.03	+32 40.4	2.283	3.245	4.8	20.4
11 27	3 55.89	+22 7.1	2.617	3.602	1.1	19.9	11 27	3 55.79	+32 4.0	2.278	3.251	3.5	20.3
12 7	3 47.51	+21 49.0	2.637	3.595	4.2	20.2	12 7	3 46.99	+31 17.3	2.303	3.256	5.2	20.4
12 17	3 40.11	+21 31.0	2.687	3.588	7.3	20.4	12 17	3 39.52	+30 24.6	2.357	3.261	8.0	20.6
12 27	3 34.29	+21 15.7	2.763	3.581	10.0	20.5	12 27	3 34.06	+29 31.1	2.437	3.266	10.7	20.8
252189	2001 <i>EJ</i> ₁₄		11 23.9 198°63	3°6/22.1	17		326610	2002 <i>RP</i> ₇₀		11 23.9 54°15	5°8/20.4	18	
10 18	4 23.78	+ 8 59.4	2.589	3.392	11.4	20.5	10 18	4 21.99	+ 6 19.4	2.093	2.909	13.3	20.4
10 28	4 18.83	+ 8 37.6	2.506	3.390	8.9	20.3	10 28	4 17.64	+ 5 3.0	2.038	2.925	10.5	20.2
11 7	4 12.18	+ 8 18.3	2.447	3.388	6.2	20.2	11 7	4 11.45	+ 3 50.7	2.007	2.942	7.8	20.1
11 17	4 4.33	+ 8 3.9	2.416	3.385	4.0	20.0	11 17	4 4.04	+ 2 47.8	2.003	2.958	6.0	20.0
11 27	3 55.99	+ 7 56.7	2.415	3.382	4.0	20.0	11 27	3 56.25	+ 1 59.1	2.027	2.975	6.4	20.1
12 7	3 47.93	+ 7 58.6	2.444	3.379	6.2	20.2	12 7	3 48.97	+ 1 27.9	2.078	2.992	8.5	20.3
12 17	3 40.87	+ 8 10.3	2.501	3.375	8.9	20.3	12 17	3 42.93	+ 1 15.4	2.156	3.009	11.0	20.4
12 27	3 35.39	+ 8 32.1	2.584	3.372	11.4	20.5	12 27	3 38.70	+ 1 20.8	2.256	3.027	13.4	20.6
364283	2006 <i>TP</i> ₇₈		11 23.9 344°22	3°1/22.1	18		324263	2006 <i>BN</i> ₂₃₂		11 23.9 163°32	4°4/26.5	17	
10 18	4 22.93	+16 30.5	1.742	2.569	15.1	20.3	10 18	4 27.62	+35 19.5	2.526	3.283	12.9	21.0
10 28	4 19.01	+15 23.1	1.664	2.566	11.6	20.1	10 28	4 22.24	+35 42.5	2.440	3.285	10.6	21.0
11 7	4 12.68	+14 9.9	1.610	2.562	7.7	19.8	11 7	4 14.64	+35 53.4	2.376	3.288	8.0	20.8
11 17	4 4.63	+12 55.0	1.581	2.560	4.0	19.6	11 17	4 5.45	+35 49.7	2.337	3.290	5.5	20.7
11 27	3 55.90	+11 44.5	1.580	2.557	3.9	19.6	11 27	3 55.60	+35 30.7	2.328	3.291	4.4	20.6
12 7	3 47.67	+10 44.1	1.607	2.555	7.6	19.8	12 7	3 46.13	+34 58.3	2.348	3.293	5.7	20.7
12 17	3 40.94	+ 9 58.6	1.660	2.553	11.5	20.0	12 17	3 38.00	+34 16.4	2.396	3.295	8.2	20.9
12 27	3 36.49	+ 9 30.6	1.736	2.552	15.0	20.3	12 27	3 31.95	+33 30.1	2.471	3.296	10.8	21.0
143809	2003 <i>WN</i> ₁₂₇		11 23.9 8°93	1°0/24.1	18		302767	2002 <i>VV</i> ₁₀₇		11 23.9 35°72	2°9/24.8	18	
10 18	4 27.26	+19 43.6	1.029	1.882	21.4	19.1	10 18	4 29.31	+25 43.0	1.518	2.332	17.6	19.9
10 28	4 24.09	+20 31.2	0.969	1.882	16.7	18.8	10 28	4 24.48	+26 28.7	1.455	2.344	13.8	19.7
11 7	4 16.92	+21 16.7	0.927	1.885	11.0	18.5	11 7	4 16.54	+27 6.0	1.413	2.358	9.4	19.4
11 17	4 6.63	+21 57.5	0.906	1.888	4.8	18.2	11 17	4 6.33	+27 31.8	1.396	2.372	5.0	19.2
11 27	3 54.98	+22 31.7	0.908	1.894	2.2	18.0	11 27	3 55.22	+27 44.9	1.405	2.386	3.2	19.1
12 7	3 44.09	+22 59.8	0.934	1.900	8.4	18.4	12 7	3 44.79	+27 46.9	1.441	2.401	6.8	19.4
12 17	3 35.81	+23 24.5	0.983	1.908	14.1	18.8	12 17	3 36.39	+27 41.9	1.503	2.417	11.0	19.7
12 27	3 31.38	+23 49.8	1.052	1.917	19.0	19.1	12 27	3 30.97	+27 35.0	1.589	2.433	14.7	20.0
7935	Beppefenoglio		11 23.9 182°14	0°0/23.9	18		220164	2002 <i>TQ</i> ₂					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
244862	2003 <i>UR</i> ₂₀₁		11 23.9 14°03'	0°5'/24.0	18		372810	2010 <i>TO</i> ₆₄		11 23.9 77°00'	5°0'/25.6	17	
10 18	4 26.33	+20 21.9	1.317	2.154	18.5	19.4	10 18	4 32.26	+30 59.3	1.373	2.178	19.5	21.9
10 28	4 22.53	+20 49.0	1.253	2.157	14.4	19.2	10 28	4 27.46	+31 36.0	1.300	2.180	15.8	21.6
11 7	4 15.45	+21 12.0	1.208	2.163	9.5	18.9	11 7	4 18.91	+31 58.1	1.246	2.181	11.4	21.4
11 17	4 5.94	+21 29.8	1.186	2.169	4.0	18.6	11 17	4 7.47	+32 0.7	1.214	2.183	7.0	21.1
11 27	3 55.42	+21 42.4	1.190	2.176	1.8	18.5	11 27	3 54.78	+31 42.0	1.209	2.185	5.1	21.0
12 7	3 45.54	+21 51.7	1.220	2.184	7.2	18.9	12 7	3 42.79	+31 5.1	1.229	2.187	8.1	21.2
12 17	3 37.77	+22 0.7	1.275	2.193	12.2	19.2	12 17	3 33.21	+30 17.5	1.274	2.188	12.5	21.5
12 27	3 33.10	+22 13.0	1.352	2.203	16.4	19.5	12 27	3 27.21	+29 28.4	1.342	2.190	16.7	21.7
172821	2004 <i>RB</i> ₁₃₈		11 23.9 50°18'	21°1'/12.7	17		360170	2013 <i>CS</i> ₁₀₁		11 23.9 167°23'	6°3'/27.4	17	
10 18	4 26.76	-13 58.7	1.023	1.834	24.3	19.5	10 18	4 31.20	+39 40.4	2.235	2.976	14.8	21.5
10 28	4 23.10	-17 30.1	0.995	1.838	22.4	19.4	10 28	4 25.46	+40 12.9	2.150	2.979	12.4	21.4
11 7	4 15.85	-20 28.4	0.985	1.842	21.3	19.3	11 7	4 16.99	+40 29.6	2.086	2.981	9.8	21.2
11 17	4 6.06	-22 35.5	0.991	1.846	21.2	19.3	11 17	4 6.52	+40 26.4	2.047	2.983	7.4	21.1
11 27	3 55.41	-23 39.1	1.015	1.850	22.1	19.4	11 27	3 55.22	+40 1.5	2.035	2.984	6.3	21.0
12 7	3 45.74	-23 37.7	1.054	1.854	23.7	19.6	12 7	3 44.42	+39 17.0	2.051	2.986	7.2	21.1
12 17	3 38.50	-22 38.1	1.106	1.858	25.6	19.7	12 17	3 35.33	+38 18.2	2.095	2.987	9.6	21.2
12 27	3 34.64	-20 52.3	1.169	1.863	27.3	19.9	12 27	3 28.81	+37 12.2	2.165	2.987	12.2	21.4
304921	2007 <i>RY</i> ₃₀₁		11 23.9 64°20'	0°7'/23.6	18		401928	2002 <i>CF</i> ₁₀		11 23.9 342°17'	20°9'/30.7	18	
10 18	4 27.21	+19 51.3	1.688	2.506	15.9	21.1	10 18	4 37.41	+53 7.1	1.029	1.778	28.1	20.2
10 28	4 22.34	+19 39.6	1.622	2.518	12.2	20.9	10 28	4 36.00	+55 59.4	0.970	1.770	26.0	20.0
11 7	4 14.87	+19 22.6	1.578	2.530	7.9	20.7	11 7	4 27.50	+58 22.4	0.924	1.764	23.8	19.8
11 17	4 5.57	+19 1.4	1.559	2.542	3.3	20.4	11 17	4 12.07	+59 56.6	0.892	1.758	22.0	19.6
11 27	3 55.63	+18 38.4	1.569	2.554	1.8	20.3	11 27	3 52.50	+60 24.1	0.875	1.753	20.9	19.6
12 7	3 46.31	+18 16.9	1.607	2.566	6.3	20.7	12 7	3 33.75	+59 40.2	0.875	1.750	21.1	19.6
12 17	3 38.70	+18 0.6	1.671	2.578	10.5	20.9	12 17	3 20.46	+57 56.1	0.890	1.747	22.4	19.6
12 27	3 33.60	+17 52.3	1.759	2.590	14.1	21.2	12 27	3 14.97	+55 34.1	0.921	1.745	24.4	19.8
81305	2000 <i>GP</i> ₆		11 23.9 160°43'	4°5'/25.9	18		35158	1993 <i>FL</i> ₈₂		11 23.9 224°20'	2°1'/22.8	18	
10 18	4 31.35	+33 26.1	2.321	3.083	13.8	20.1	10 18	4 24.37	+15 32.9	2.275	3.085	12.6	19.9
10 28	4 25.31	+34 6.0	2.237	3.087	11.2	19.9	10 28	4 19.63	+15 5.0	2.189	3.080	9.7	19.7
11 7	4 16.77	+34 34.9	2.175	3.092	8.3	19.7	11 7	4 12.90	+14 34.7	2.126	3.075	6.4	19.5
11 17	4 6.40	+34 49.4	2.140	3.096	5.6	19.6	11 17	4 4.76	+14 4.3	2.090	3.069	3.1	19.2
11 27	3 55.22	+34 48.0	2.134	3.100	4.5	19.5	11 27	3 56.01	+13 36.3	2.084	3.064	2.7	19.2
12 7	3 44.44	+34 32.0	2.157	3.103	6.1	19.6	12 7	3 47.59	+13 13.8	2.108	3.058	5.9	19.4
12 17	3 35.14	+34 5.1	2.209	3.106	8.9	19.8	12 17	3 40.33	+12 59.2	2.160	3.052	9.3	19.6
12 27	3 28.15	+33 32.7	2.286	3.108	11.6	20.0	12 27	3 34.92	+12 54.3	2.236	3.046	12.3	19.8
211710	2003 <i>XD</i> ₁₈		11 23.9 335°01'	2°4'/23.5	18		379923	2012 <i>KC</i> ₂₇		11 23.9 56°52'	0°6'/23.8	18	
10 18	4 32.69	+11 16.2	1.711	2.521	16.1	19.6	10 18	4 32.16	+18 30.8	1.243	2.074	19.7	20.3
10 28	4 26.78	+11 59.5	1.628	2.517	12.5	19.4	10 28	4 26.83	+18 46.7	1.192	2.095	15.1	20.1
11 7	4 17.99	+12 49.3	1.566	2.514	8.4	19.2	11 7	4 18.09	+18 59.3	1.162	2.116	9.8	19.9
11 17	4 6.99	+13 45.6	1.532	2.511	4.0	18.9	11 17	4 6.97	+19 8.2	1.155	2.137	4.0	19.6
11 27	3 54.94	+14 47.4	1.526	2.508	2.9	18.8	11 27	3 55.08	+19 14.5	1.173	2.159	2.0	19.6
12 7	3 43.22	+15 53.2	1.550	2.505	7.1	19.1	12 7	3 44.19	+19 20.5	1.219	2.180	7.5	20.0
12 17	3 33.14	+17 1.7	1.602	2.503	11.4	19.3	12 17	3 35.71	+19 29.3	1.289	2.202	12.5	20.3
12 27	3 25.71	+18 12.4	1.679	2.500	15.2	19.6	12 27	3 30.53	+19 43.8	1.381	2.224	16.6	20.6
410856	2009 <i>RP</i> ₄₂		11 23.9 135°66'	4°0'/26.2	17		74582	1999 <i>NU</i> ₄₉		11 23.9 80°64'	4°2'/22.5	17	
10 18	4 27.76	+33 42.9	2.401	3.166	13.3	21.7	10 18	4 31.97	+12 33.7	1.398	2.223	18.2	19.4
10 28	4 22.38	+34 3.5	2.319	3.172	10.8	21.5	10 28	4 26.06	+11 54.4	1.351	2.249	14.0	19.2
11 7	4 14.76	+34 12.3	2.258	3.177	7.9	21.3	11 7	4 17.24	+11 16.2	1.325	2.274	9.4	19.0
11 17	4 5.52	+34 7.0	2.224	3.183	5.2	21.2	11 17	4 6.52	+10 43.0	1.324	2.300	5.2	18.8
11 27	3 55.63	+33 47.2	2.219	3.187	4.0	21.1	11 27	3 55.30	+10 19.5	1.349	2.325	4.9	18.9
12 7	3 46.17	+33 15.0	2.243	3.192	5.6	21.2	12 7	3 45.06	+10 8.9	1.402	2.349	8.6	19.2
12 17	3 38.10	+32 34.4	2.295	3.197	8.4	21.4	12 17	3 36.95	+10 12.8	1.481	2.373	12.7	19.5
12 27	3 32.16	+31 50.6	2.374	3.201	11.1	21.6	12 27	3 31.70	+10 31.2	1.581	2.397	16.2	19.8
353020	2009 <i>BN</i> ₁₇₄		11 23.9 130°79'	3°6'/22.2	18		98688	2000 <i>XG</i> ₈		11 23.9 30°33'	5°5'/25.9	18	
10 18	4 25.92	+12 1.7	2.041	2.854	13.7	21.7	10 18	4 28.44	+31 28.7	1.184	2.006	21.1	17.5
10 28	4 20.85	+11 23.1	1.971	2.862	10.6	21.5	10 28	4 24.61	+32 11.0	1.135	2.023	16.9	17.3
11 7	4 13.67	+10 44.8	1.923	2.870	7.2	21.3	11 7	4 16.96	+32 35.7	1.103	2.042	12.2	17.1
11 17	4 5.04	+10 10.0	1.903	2.877	4.2	21.2	11 17	4 6.57	+32 38.4	1.092	2.061	7.6	16.9
11 27	3 55.87	+9 42.1	1.912	2.884	4.1	21.2	11 27	3 55.26	+32 18.4	1.106	2.082	5.6	16.9
12 7	3 47.17	+9 24.2	1.949	2.891	7.0	21.4	12 7	3 45.02	+31 40.4	1.144	2.103	8.3	17.1
12 17	3 39.83	+9 18.2	2.014	2.897	10.3	21.6	12 17	3 37.43	+30 52.7	1.206	2.126	12.6	17.4
12 27	3 34.50	+9 24.9	2.103	2.903	13.3	21.8	12 27	3 33.45	+30 4.6	1.290	2.149	16.5	17.7
19047	9516 <i>P-L</i>		11 23.9 115°37'	1°7'/23.3	18		450687	2006 <i>VK</i> ₁₃₂		11 23.9 147°12'	1°2'/23.4	18	
10 18	4 29.98	+18 35.4	1.453	2.277	17.7	19.2	10 18	4 26.28	+17 37.5	2.129	2.937	13.4	22.1
10 28	4 24.88	+18 8.3	1.386	2.285	13.6	19.0	10 28	4 21.19	+17 27.9	2.050	2.941	10.3	21.9
11 7	4 16.73	+17 35.3	1.339	2.292	8.9	18.7	11 7	4 13.96	+17 15.4	1.995	2.944	6.7	21.6
11 17	4 6.40	+16 58.8	1.317	2.299	3.8	18.5	11 17	4 5.20	+17 1.2	1.966	2.948	2.9	21.4
11 27	3 55.27	+16 22.5	1.323	2.306	2.6	18.4	11 27	3 55.83	+16 47.2	1.967	2.951	1.9	21.4
12 7	3 44.84	+15 51.2	1.356	2.313	7.5	18.7	12 7	3 46.87	+16 35.8	1.998	2.954	5.6	21.6
12 17	3 36.44	+15 29.1	1.414	2.320	12.2	19.0	12 17	3 39.22	+16 29.3	2.057	2.957	9.3	21.8
12 27	3 30.95	+15 19.4	1.495	2.326	16.2	19.3	12 27	3 33.60	+16 29.8	2.141	2.959	12.4	22.0
274979	2009 <i>SP</i> ₃₆₀		11 23.9 264°98'	5°3'/21.3	18		265902						

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
181385	2006 <i>SU</i> ₄₇		11 23.9 319°86	5°9/26.0	18		289143	2004 <i>VH</i> ₁₁		11 23.9 345°94	0°4/23.7	18	
10 18	4 30.83	+33 3.0	1.398	2.199	19.5	20.3	10 18	4 20.44	+19 38.6	2.385	3.196	12.0	19.7
10 28	4 26.47	+33 41.7	1.320	2.195	15.9	20.1	10 28	4 16.66	+19 35.7	2.295	3.188	9.2	19.5
11 7	4 18.35	+34 4.4	1.261	2.192	11.8	19.8	11 7	4 11.01	+19 29.3	2.230	3.180	6.0	19.3
11 17	4 7.29	+34 5.4	1.224	2.188	7.7	19.6	11 17	4 4.01	+19 20.1	2.191	3.173	2.5	19.1
11 27	3 54.88	+33 42.5	1.213	2.185	5.9	19.5	11 27	3 56.42	+19 9.4	2.181	3.166	1.3	19.0
12 7	3 43.09	+32 58.6	1.227	2.182	8.4	19.6	12 7	3 49.09	+18 59.3	2.201	3.160	4.9	19.2
12 17	3 33.67	+32 1.5	1.266	2.179	12.6	19.9	12 17	3 42.81	+18 52.0	2.249	3.155	8.3	19.4
12 27	3 27.83	+31 1.3	1.327	2.177	16.7	20.1	12 27	3 38.25	+18 49.5	2.322	3.150	11.3	19.6
397659	2007 <i>YS</i> ₇₂		11 23.9 334°37	6°4/21.9	18		508221	2015 <i>GJ</i> ₃₇		11 23.9 328°63	2°5/23.3	18	
10 18	4 26.88	+3 48.6	1.767	2.580	15.5	20.3	10 18	4 26.95	+15 16.1	1.198	2.043	19.4	21.0
10 28	4 22.00	+3 26.4	1.693	2.577	12.5	20.1	10 28	4 23.46	+15 15.0	1.123	2.032	15.2	20.7
11 7	4 14.67	+3 12.9	1.641	2.574	9.3	19.9	11 7	4 16.40	+15 13.7	1.066	2.022	10.1	20.4
11 17	4 5.55	+3 12.2	1.613	2.572	6.8	19.8	11 17	4 6.52	+15 14.1	1.031	2.013	4.7	20.1
11 27	3 55.69	+3 27.8	1.613	2.570	6.8	19.8	11 27	3 55.28	+15 18.8	1.021	2.004	3.4	20.0
12 7	3 46.25	+4 0.9	1.641	2.568	9.3	19.9	12 7	3 44.50	+15 30.5	1.036	1.996	8.8	20.3
12 17	3 38.30	+4 50.8	1.694	2.566	12.5	20.1	12 17	3 35.88	+15 51.6	1.075	1.989	14.3	20.6
12 27	3 32.65	+5 55.2	1.769	2.564	15.6	20.3	12 27	3 30.63	+16 23.5	1.134	1.983	19.0	20.8
88965	2001 <i>TA</i> ₅₅		11 23.9 264°70	0°1/23.9	18		43620	2002 <i>CG</i> ₇₉		11 23.9 103°10	1°9/24.8	18	
10 18	4 27.59	+22 57.1	1.669	2.483	16.2	19.7	10 18	4 31.71	+26 25.7	1.933	2.725	15.2	19.3
10 28	4 23.06	+22 35.6	1.579	2.472	12.6	19.4	10 28	4 25.51	+26 31.3	1.869	2.747	11.8	19.2
11 7	4 15.65	+22 4.4	1.510	2.460	8.4	19.1	11 7	4 16.80	+26 27.2	1.828	2.769	8.0	19.0
11 17	4 6.06	+21 24.1	1.467	2.449	3.6	18.8	11 17	4 6.39	+26 12.7	1.813	2.790	3.9	18.8
11 27	3 55.47	+20 37.3	1.451	2.437	1.6	18.6	11 27	3 55.42	+25 48.5	1.827	2.810	2.1	18.7
12 7	3 45.29	+19 48.8	1.464	2.424	6.6	19.0	12 7	3 45.15	+25 18.0	1.871	2.831	5.6	19.0
12 17	3 36.81	+19 4.1	1.503	2.412	11.3	19.2	12 17	3 36.62	+24 45.7	1.943	2.850	9.3	19.2
12 27	3 31.01	+18 28.6	1.565	2.400	15.4	19.4	12 27	3 30.55	+24 16.1	2.041	2.869	12.6	19.5
228080	2008 <i>QS</i> ₁₇		11 23.9 142°41	3°1/25.7	17		196802	2003 <i>SJ</i> ₂₀₄		11 23.9 43°51	3°5/25.1	18	
10 18	4 26.25	+31 25.6	2.486	3.259	12.7	21.2	10 18	4 29.91	+27 54.3	2.040	2.828	14.6	19.0
10 28	4 21.10	+31 36.0	2.401	3.263	10.1	21.0	10 28	4 24.37	+28 52.2	1.968	2.840	11.6	18.8
11 7	4 13.88	+31 36.0	2.340	3.267	7.3	20.8	11 7	4 16.26	+29 42.7	1.918	2.851	8.1	18.7
11 17	4 5.18	+31 23.9	2.305	3.270	4.4	20.7	11 17	4 6.26	+30 22.3	1.894	2.863	4.8	18.5
11 27	3 55.89	+31 0.0	2.299	3.274	3.2	20.6	11 27	3 55.44	+30 49.1	1.899	2.875	3.5	18.4
12 7	3 46.99	+30 26.6	2.323	3.278	5.1	20.7	12 7	3 45.05	+31 3.6	1.934	2.888	6.0	18.6
12 17	3 39.36	+29 47.3	2.376	3.281	8.0	20.9	12 17	3 36.21	+31 8.4	1.996	2.901	9.3	18.8
12 27	3 33.70	+29 6.8	2.455	3.284	10.7	21.1	12 27	3 29.77	+31 7.9	2.084	2.913	12.3	19.1
50760	2000 <i>ER</i> ₁₈₃		11 23.9 160°24	0°2/24.0	18		516180	2016 <i>QC</i> ₄₆		11 23.9 30°93	9°7/21.3	18	
10 18	4 27.64	+21 55.2	2.310	3.106	12.8	20.1	10 18	4 24.79	+3 38.6	1.057	1.908	21.0	20.3
10 28	4 22.11	+21 50.2	2.228	3.111	9.9	19.9	10 28	4 21.28	+2 23.8	1.020	1.925	16.9	20.1
11 7	4 14.51	+21 39.7	2.170	3.116	6.5	19.7	11 7	4 14.48	+1 22.0	1.001	1.942	12.8	19.9
11 17	4 5.44	+21 23.9	2.140	3.121	2.7	19.5	11 17	4 5.49	+0 42.0	1.004	1.961	10.0	19.8
11 27	3 55.79	+21 4.1	2.140	3.125	1.2	19.4	11 27	3 55.88	+0 30.7	1.029	1.982	10.3	19.9
12 7	3 46.54	+20 42.7	2.170	3.129	5.0	19.7	12 7	3 47.29	+0 50.0	1.076	2.003	13.0	20.1
12 17	3 38.57	+20 22.8	2.229	3.132	8.5	19.9	12 17	3 41.00	+1 37.1	1.144	2.025	16.6	20.4
12 27	3 32.57	+20 7.2	2.314	3.134	11.6	20.1	12 27	3 37.79	+2 46.4	1.231	2.048	19.9	20.7
452973	2007 <i>EW</i> ₁₄		11 23.9 284°08	1°0/23.4	17		78586	2002 <i>SU</i> ₁₂		11 23.9 6°86	0°2/24.0	18	
10 18	4 24.44	+19 1.5	2.095	2.906	13.5	22.2	10 18	4 22.73	+21 50.0	1.891	2.708	14.5	19.1
10 28	4 20.05	+18 42.6	1.996	2.889	10.4	22.0	10 28	4 18.84	+21 43.8	1.814	2.709	11.2	18.9
11 7	4 13.41	+18 18.8	1.921	2.872	6.8	21.7	11 7	4 12.62	+21 31.4	1.760	2.711	7.3	18.6
11 17	4 5.07	+17 51.5	1.872	2.854	2.9	21.4	11 17	4 4.72	+21 13.3	1.731	2.713	3.1	18.4
11 27	3 55.92	+17 22.9	1.852	2.836	1.8	21.3	11 27	3 56.15	+20 51.3	1.731	2.716	1.3	18.2
12 7	3 47.03	+16 56.2	1.862	2.819	5.9	21.6	12 7	3 48.02	+20 28.5	1.759	2.720	5.6	18.6
12 17	3 39.36	+16 34.6	1.899	2.801	9.8	21.8	12 17	3 41.32	+20 8.4	1.813	2.724	9.6	18.8
12 27	3 33.74	+16 21.2	1.960	2.783	13.2	22.0	12 27	3 36.81	+19 54.1	1.892	2.729	13.0	19.0
387737	2003 <i>GP</i> ₂₆		11 23.9 280°17	0°5/24.1	18		482481	2012 <i>RU</i> ₂₂		11 23.9 60°25	2°0/23.2	18	
10 18	4 27.45	+23 3.5	1.631	2.447	16.4	21.5	10 18	4 29.36	+18 3.1	1.392	2.221	18.1	21.2
10 28	4 23.11	+22 53.0	1.538	2.432	12.9	21.2	10 28	4 24.21	+17 29.8	1.343	2.245	13.8	21.0
11 7	4 15.79	+22 33.5	1.466	2.416	8.6	20.9	11 7	4 16.14	+16 51.8	1.315	2.269	8.9	20.8
11 17	4 6.17	+22 4.9	1.419	2.401	3.7	20.6	11 17	4 6.13	+16 12.0	1.312	2.294	3.9	20.6
11 27	3 55.42	+21 29.1	1.400	2.385	1.6	20.4	11 27	3 55.60	+15 34.7	1.336	2.318	2.9	20.6
12 7	3 45.03	+20 50.2	1.408	2.369	6.7	20.7	12 7	3 46.02	+15 4.5	1.386	2.343	7.5	20.9
12 17	3 36.33	+20 13.5	1.442	2.354	11.6	21.0	12 17	3 38.54	+14 45.1	1.462	2.368	11.9	21.2
12 27	3 30.39	+19 44.4	1.500	2.338	15.8	21.2	12 27	3 33.90	+14 38.6	1.561	2.392	15.6	21.5
422088	2014 <i>QE</i> ₃₉₄		11 23.9 172°18	1°1/24.6	18		511991	2015 <i>KE</i> ₁₂₅		11 23.9 186°00	1°0/23.5	18	
10 18	4 26.17	+25 31.4	2.776	3.558	11.3	22.6	10 18	4 29.47	+19 32.1	1.881	2.688	14.9	22.7
10 28	4 20.71	+25 27.6	2.688	3.561	8.8	22.4	10 28	4 23.99	+19 8.8	1.798	2.688	11.5	22.5
11 7	4 13.47	+25 16.9	2.624	3.564	5.9	22.2	11 7	4 15.98	+18 39.7	1.739	2.688	7.5	22.3
11 17	4 4.99	+24 59.1	2.589	3.567	2.8	22.0	11 17	4 6.14	+18 6.2	1.705	2.687	3.2	22.0
11 27	3 56.00	+24 35.2	2.585	3.568	1.4	21.9	11 27	3 55.55	+17 31.1	1.701	2.685	1.9	21.9
12 7	3 47.35	+24 7.3	2.611	3.570	4.3	22.1	12 7	3 45.43	+16 58.0	1.727	2.683	6.3	22.2
12 17	3 39.77	+23 38.2	2.668	3.571	7.3	22.3	12 17	3 36.87	+16 31.0	1.780	2.680	10.4	22.5
12 27	3 33.87	+23 11.2	2.751	3.571	9.9	22.5	12 27	3 30.69	+16 13.3	1.857	2.677	14.0	22.7
342408	2008 <i>UM</i> ₅₈		11 23.9 221°14	0°8/23.5	18		256655	2007 <i>XV</i> ₁₆					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
1686	De Sitter		11 23.9 103°22	0°2/24.1	18		76702	2000 HR ₈₇		11 23.9 218°07	0°1/23.9	18	
10 18	4 24.85	+22 16.1	2.512	3.309	11.9	16.4	10 18	4 28.79	+19 19.7	1.997	2.802	14.2	19.4
10 28	4 19.77	+22 6.6	2.440	3.323	9.2	16.3	10 28	4 23.46	+19 39.4	1.912	2.800	11.0	19.2
11 7	4 12.88	+21 51.5	2.391	3.337	6.0	16.1	11 7	4 15.68	+19 56.5	1.850	2.798	7.2	19.0
11 17	4 4.76	+21 31.6	2.370	3.351	2.5	15.9	11 17	4 6.07	+20 10.6	1.815	2.796	3.0	18.7
11 27	3 56.20	+21 8.2	2.379	3.364	1.1	15.8	11 27	3 55.64	+20 21.9	1.809	2.794	1.4	18.6
12 7	3 48.07	+20 43.9	2.418	3.377	4.5	16.1	12 7	3 45.56	+20 31.7	1.833	2.792	5.7	18.9
12 17	3 41.09	+20 21.2	2.487	3.390	7.7	16.3	12 17	3 36.88	+20 41.9	1.884	2.790	9.7	19.1
12 27	3 35.86	+20 3.0	2.582	3.403	10.5	16.5	12 27	3 30.47	+20 54.9	1.961	2.787	13.1	19.4
370505	2003 ST ₉₃		11 23.9 54°67	2°6/22.9	17		270200	2001 TZ ₂₉		11 23.9 68°57	1°1/24.4	18	
10 18	4 29.60	+18 34.4	1.141	1.983	20.4	20.5	10 18	4 31.78	+24 23.9	1.442	2.258	18.3	20.7
10 28	4 24.89	+17 39.2	1.097	2.006	15.6	20.3	10 28	4 26.17	+24 18.8	1.391	2.283	14.1	20.5
11 7	4 16.78	+16 37.3	1.072	2.029	10.1	20.0	11 7	4 17.49	+24 3.4	1.359	2.308	9.3	20.3
11 17	4 6.43	+15 33.3	1.071	2.052	4.5	19.8	11 17	4 6.75	+23 37.6	1.352	2.333	4.1	20.1
11 27	3 55.53	+14 34.1	1.094	2.076	3.6	19.8	11 27	3 55.43	+23 3.9	1.373	2.358	1.8	20.0
12 7	3 45.78	+13 46.3	1.143	2.101	8.6	20.2	12 7	3 45.09	+22 26.9	1.420	2.383	6.6	20.3
12 17	3 38.50	+13 14.8	1.216	2.125	13.5	20.5	12 17	3 36.95	+21 52.2	1.494	2.407	11.1	20.7
12 27	3 34.46	+13 1.7	1.310	2.149	17.6	20.9	12 27	3 31.80	+21 24.7	1.592	2.432	14.9	21.0
340215	2006 AO ₈₄		11 23.9 4°56	1°5/24.5	16		272152	2005 NJ ₅₁		11 23.9 58°74	0°7/23.7	16	
10 18	4 22.21	+23 12.7	1.922	2.737	14.3	19.6	10 18	4 30.98	+21 1.1	1.280	2.109	19.3	20.7
10 28	4 18.52	+23 44.2	1.846	2.738	11.2	19.4	10 28	4 25.72	+20 37.6	1.234	2.135	14.8	20.5
11 7	4 12.47	+24 10.7	1.793	2.741	7.5	19.2	11 7	4 17.24	+20 6.2	1.208	2.162	9.6	20.3
11 17	4 4.71	+24 30.9	1.765	2.745	3.5	19.0	11 17	4 6.64	+19 28.7	1.206	2.188	3.9	20.1
11 27	3 56.20	+24 44.6	1.765	2.750	1.8	18.9	11 27	3 55.50	+18 49.2	1.230	2.215	2.0	20.0
12 7	3 48.07	+24 52.9	1.794	2.756	5.5	19.1	12 7	3 45.45	+18 12.8	1.281	2.242	7.3	20.4
12 17	3 41.33	+24 58.3	1.849	2.763	9.3	19.4	12 17	3 37.74	+17 44.6	1.357	2.269	12.1	20.8
12 27	3 36.80	+25 3.6	1.929	2.771	12.6	19.6	12 27	3 33.14	+17 28.2	1.455	2.295	16.1	21.1
352152	2007 PZ ₂₂		11 23.9 43°23	4°0/22.8	18		128275	2003 UJ ₆₃		11 23.9 100°71	4°7/21.4	18	
10 18	4 29.55	+12 12.6	1.271	2.107	19.1	19.7	10 18	4 23.27	+ 6 41.4	2.407	3.213	12.1	19.8
10 28	4 24.36	+11 51.4	1.235	2.139	14.6	19.5	10 28	4 18.50	+ 5 56.8	2.343	3.226	9.5	19.6
11 7	4 16.20	+11 33.0	1.219	2.171	9.7	19.3	11 7	4 12.03	+ 5 15.9	2.303	3.238	6.9	19.5
11 17	4 6.14	+11 20.6	1.226	2.204	5.2	19.2	11 17	4 4.42	+ 4 42.4	2.290	3.250	5.0	19.4
11 27	3 55.66	+11 17.5	1.260	2.237	4.6	19.3	11 27	3 56.42	+ 4 19.4	2.307	3.262	5.1	19.4
12 7	3 46.26	+11 25.7	1.320	2.271	8.5	19.6	12 7	3 48.83	+ 4 9.2	2.352	3.274	7.2	19.6
12 17	3 39.06	+11 46.0	1.404	2.305	12.6	19.9	12 17	3 42.33	+ 4 12.6	2.424	3.286	9.7	19.7
12 27	3 34.77	+12 17.9	1.510	2.339	16.2	20.2	12 27	3 37.48	+ 4 29.3	2.521	3.297	12.0	19.9
232217	2002 HF ₁₃		11 23.9 200°76	12°2/17.9	18		95996	2004 NR ₁₂		11 23.9 55°18	1°6/24.5	18	
10 18	4 26.82	-13 31.7	2.047	2.801	15.6	20.1	10 18	4 30.79	+24 26.2	1.372	2.192	18.8	19.4
10 28	4 21.61	-14 53.4	1.989	2.799	14.0	20.0	10 28	4 25.65	+24 36.6	1.320	2.214	14.5	19.1
11 7	4 14.25	-15 56.8	1.951	2.796	12.7	19.9	11 7	4 17.29	+24 37.2	1.287	2.236	9.7	18.9
11 17	4 5.38	-16 34.6	1.936	2.793	12.2	19.9	11 17	4 6.71	+24 26.9	1.279	2.259	4.4	18.7
11 27	3 55.93	-16 41.4	1.945	2.790	12.6	19.9	11 27	3 55.45	+24 7.1	1.297	2.282	2.1	18.6
12 7	3 46.93	-16 15.7	1.977	2.786	13.8	20.0	12 7	3 45.13	+23 41.8	1.342	2.305	6.8	19.0
12 17	3 39.27	-15 19.7	2.030	2.782	15.4	20.1	12 17	3 37.08	+23 16.4	1.412	2.328	11.4	19.3
12 27	3 33.66	-13 57.9	2.103	2.777	17.0	20.2	12 27	3 32.12	+22 56.2	1.505	2.351	15.4	19.6
180043	2003 AF ₇₇		11 23.9 313°12	0°6/23.8	17		517094	2013 CC ₂₀₅		11 23.9 153°71	1°6/24.8	18	
10 18	4 26.76	+17 55.7	1.689	2.510	15.8	20.1	10 18	4 27.80	+26 31.8	2.308	3.095	13.1	22.0
10 28	4 22.55	+18 16.2	1.592	2.489	12.3	19.8	10 28	4 22.35	+26 32.3	2.226	3.101	10.3	21.9
11 7	4 15.48	+18 35.8	1.516	2.468	8.2	19.5	11 7	4 14.74	+26 24.3	2.167	3.107	7.0	21.7
11 17	4 6.12	+18 54.3	1.466	2.448	3.5	19.2	11 17	4 5.61	+26 7.2	2.135	3.112	3.5	21.4
11 27	3 55.54	+19 12.1	1.443	2.428	1.7	19.0	11 27	3 55.89	+25 41.8	2.133	3.117	1.9	21.3
12 7	3 45.11	+19 30.3	1.448	2.408	6.7	19.3	12 7	3 46.59	+25 10.8	2.162	3.121	4.9	21.6
12 17	3 36.18	+19 50.4	1.479	2.389	11.4	19.5	12 17	3 38.62	+24 37.9	2.219	3.125	8.4	21.8
12 27	3 29.85	+20 15.0	1.534	2.371	15.6	19.8	12 27	3 32.70	+24 7.1	2.302	3.129	11.4	22.0
273657	2007 DU ₈₆		11 23.9 149°76	3°5/22.4	18		447157	2005 JE ₁		11 23.9 168°36	2°3/22.8	18	
10 18	4 28.71	+12 40.6	1.897	2.708	14.7	21.0	10 18	4 27.08	+13 29.0	2.573	3.371	11.6	22.3
10 28	4 23.18	+12 2.8	1.825	2.716	11.3	20.8	10 28	4 21.41	+13 13.3	2.492	3.376	9.0	22.1
11 7	4 15.33	+11 24.7	1.777	2.724	7.7	20.6	11 7	4 13.95	+12 57.5	2.435	3.380	6.0	21.9
11 17	4 5.84	+10 49.5	1.755	2.730	4.3	20.4	11 17	4 5.25	+12 43.2	2.407	3.384	3.1	21.8
11 27	3 55.75	+10 21.0	1.763	2.737	4.1	20.4	11 27	3 56.06	+12 32.3	2.410	3.387	2.7	21.7
12 7	3 46.18	+10 2.4	1.799	2.742	7.3	20.6	12 7	3 47.19	+12 26.6	2.443	3.390	5.5	21.9
12 17	3 38.11	+ 9 56.0	1.862	2.748	10.9	20.8	12 17	3 39.41	+12 27.7	2.506	3.392	8.4	22.1
12 27	3 32.29	+10 2.5	1.949	2.752	14.1	21.0	12 27	3 33.32	+12 36.6	2.595	3.393	11.1	22.3
397290	2006 SQ ₉₅		11 23.9 90°93	4°6/25.9	18		1465	Autonoma		11 23.9 210°13	3°7/21.6	18	
10 18	4 33.64	+32 37.8	2.061	2.829	15.1	21.2	10 18	4 22.92	+ 9 27.6	2.730	3.532	10.9	17.2
10 28	4 27.16	+33 24.5	1.997	2.852	12.2	21.0	10 28	4 18.18	+ 8 45.4	2.643	3.527	8.5	17.0
11 7	4 18.01	+33 59.1	1.955	2.875	8.9	20.9	11 7	4 11.84	+ 8 4.3	2.581	3.521	6.0	16.9
11 17	4 6.98	+34 18.1	1.939	2.897	5.9	20.7	11 17	4 4.37	+ 7 27.1	2.548	3.514	4.0	16.7
11 27	3 55.26	+34 19.9	1.951	2.919	4.6	20.7	11 27	3 56.44	+ 6 57.0	2.544	3.508	4.1	16.7
12 7	3 44.16	+34 6.5	1.993	2.941	6.4	20.8	12 7	3 48.76	+ 6 36.3	2.570	3.500	6.2	16.9
12 17	3 34.83	+33 42.0	2.063	2.962	9.3	21.0	12 17	3 42.00	+ 6 26.8	2.625	3.493	8.8	17.0
12 27	3 28.09	+33 12.6	2.158	2.983	12.1	21.3	12 27	3 36.73	+ 6 29.0	2.705	3.485	11.2	17.2
333785	2011 FV ₁₃₃		11 23.9 257°89	3°4/25.8	17		96699	1999 JM ₉₃		11 23.9 104°83	4°8/22.1	17	
10 18	4 26.01	+31											

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
436935	2012 <i>TO</i> ₁₂₅		11 23.9 44°00'	0°5'/23.8	18		326252	2012 <i>DC</i> ₄₁		11 23.9 349°95'	1°2'/23.4	18	
10 18	4 29.02	+19 5.5	1.393	2.222	18.1	20.2	10 18	4 24.37	+18 44.6	1.971	2.786	14.0	21.2
10 28	4 24.34	+19 15.1	1.331	2.232	14.0	20.0	10 28	4 20.01	+18 23.9	1.890	2.785	10.8	21.0
11 7	4 16.53	+19 20.8	1.290	2.243	9.1	19.7	11 7	4 13.38	+17 58.8	1.833	2.784	7.1	20.8
11 17	4 6.46	+19 22.8	1.272	2.255	3.8	19.4	11 17	4 5.12	+17 30.7	1.801	2.783	3.0	20.5
11 27	3 55.54	+19 22.3	1.281	2.266	1.8	19.3	11 27	3 56.20	+17 2.2	1.798	2.782	1.9	20.4
12 7	3 45.33	+19 21.8	1.317	2.278	7.1	19.7	12 7	3 47.69	+16 36.7	1.824	2.782	5.9	20.7
12 17	3 37.20	+19 24.6	1.378	2.291	11.9	20.0	12 17	3 40.54	+16 17.3	1.878	2.781	9.8	20.9
12 27	3 32.04	+19 33.6	1.461	2.304	15.9	20.3	12 27	3 35.51	+16 6.6	1.955	2.781	13.2	21.1
519813	2013 <i>HC</i> ₁₁₆		11 23.9 188°54'	4°2'/21.2	18		273540	2007 <i>BS</i> ₄₂		11 23.9 260°15'	3°6'/22.6	18	
10 18	4 23.79	+10 43.2	2.287	3.097	12.5	22.2	10 18	4 27.60	+13 37.7	1.646	2.468	16.0	20.9
10 28	4 19.10	+9 35.7	2.208	3.097	9.7	22.0	10 28	4 22.99	+13 3.4	1.560	2.457	12.5	20.7
11 7	4 12.54	+8 27.7	2.154	3.096	6.8	21.8	11 7	4 15.63	+12 27.5	1.496	2.446	8.5	20.4
11 17	4 4.68	+7 23.4	2.127	3.095	4.5	21.7	11 17	4 6.17	+11 53.4	1.457	2.434	4.5	20.1
11 27	3 56.33	+6 27.4	2.131	3.094	4.8	21.7	11 27	3 55.74	+11 25.2	1.445	2.422	4.2	20.1
12 7	3 48.34	+5 43.7	2.163	3.092	7.2	21.9	12 7	3 45.67	+11 7.0	1.462	2.410	8.1	20.3
12 17	3 41.50	+5 14.7	2.223	3.090	10.2	22.0	12 17	3 37.21	+11 1.8	1.504	2.398	12.4	20.5
12 27	3 36.42	+5 1.5	2.306	3.088	12.8	22.2	12 27	3 31.30	+11 11.2	1.568	2.386	16.2	20.7
369834	2012 <i>JV</i> ₁₀		11 23.9 126°26'	3°8'/21.5	18		144447	2004 <i>EG</i> ₃₉		11 23.9 249°12'	1°4'/24.6	18	
10 18	4 22.45	+8 35.1	2.746	3.549	10.9	21.2	10 18	4 27.01	+25 8.3	1.969	2.771	14.6	20.3
10 28	4 17.70	+7 52.1	2.677	3.560	8.5	21.1	10 28	4 22.20	+25 10.4	1.884	2.768	11.4	20.1
11 7	4 11.45	+7 11.3	2.633	3.570	6.0	20.9	11 7	4 14.92	+25 4.1	1.821	2.765	7.7	19.9
11 17	4 4.19	+6 35.5	2.616	3.581	4.1	20.8	11 17	4 5.81	+24 48.8	1.783	2.762	3.6	19.6
11 27	3 56.58	+6 7.7	2.630	3.591	4.2	20.9	11 27	3 55.91	+24 25.4	1.775	2.759	1.8	19.5
12 7	3 49.31	+5 49.9	2.674	3.601	6.2	21.0	12 7	3 46.42	+23 56.7	1.795	2.756	5.6	19.7
12 17	3 42.99	+5 43.5	2.746	3.611	8.5	21.2	12 17	3 38.40	+23 26.8	1.843	2.753	9.6	20.0
12 27	3 38.13	+5 48.6	2.842	3.620	10.8	21.3	12 27	3 32.70	+23 0.3	1.916	2.750	13.0	20.2
151085	2001 <i>VK</i> ₈₃		11 23.9 21°50'	0°5'/24.2	18		172200	2002 <i>QO</i> ₂₈		11 23.9 76°36'	3°2'/25.3	18	
10 18	4 25.18	+23 35.1	1.790	2.603	15.3	19.9	10 18	4 30.82	+28 56.8	1.770	2.563	16.3	20.4
10 28	4 20.88	+23 18.6	1.714	2.606	11.9	19.7	10 28	4 25.24	+29 17.0	1.707	2.582	12.8	20.2
11 7	4 14.04	+22 53.3	1.659	2.609	7.8	19.4	11 7	4 16.89	+29 25.5	1.665	2.601	8.9	20.0
11 17	4 5.40	+22 19.9	1.631	2.612	3.4	19.2	11 17	4 6.59	+29 20.4	1.648	2.620	5.0	19.8
11 27	3 56.05	+21 40.6	1.630	2.615	1.4	19.0	11 27	3 55.62	+29 1.7	1.660	2.639	3.3	19.7
12 7	3 47.22	+20 59.7	1.657	2.619	5.9	19.4	12 7	3 45.36	+28 32.7	1.699	2.658	6.1	20.0
12 17	3 39.98	+20 21.8	1.712	2.623	10.1	19.6	12 17	3 36.99	+27 58.3	1.767	2.677	9.9	20.2
12 27	3 35.13	+19 51.1	1.790	2.627	13.7	19.8	12 27	3 31.29	+27 24.5	1.858	2.695	13.3	20.5
55128	2001 <i>QH</i> ₁₇₇		11 23.9 45°84'	3°2'/25.4	18		211024	2002 <i>AB</i> ₃₁		11 23.9 206°79'	1°0'/23.6	16	
10 18	4 28.82	+29 54.5	1.365	2.179	19.2	19.0	10 18	4 30.38	+19 43.6	1.514	2.334	17.3	21.3
10 28	4 24.47	+29 48.0	1.301	2.188	15.2	18.8	10 28	4 25.38	+19 24.3	1.435	2.331	13.4	21.0
11 7	4 16.73	+29 24.6	1.256	2.199	10.6	18.6	11 7	4 17.28	+18 58.3	1.377	2.328	8.8	20.7
11 17	4 6.57	+28 42.9	1.235	2.210	5.7	18.3	11 17	4 6.87	+18 27.0	1.343	2.325	3.7	20.4
11 27	3 55.57	+27 45.0	1.239	2.221	3.4	18.2	11 27	3 55.46	+17 53.4	1.337	2.322	2.1	20.3
12 7	3 45.46	+26 37.2	1.270	2.233	7.1	18.5	12 7	3 44.59	+17 21.8	1.359	2.318	7.3	20.6
12 17	3 37.65	+25 28.1	1.326	2.244	11.8	18.8	12 17	3 35.64	+16 57.1	1.407	2.314	12.1	20.9
12 27	3 33.05	+24 25.9	1.405	2.257	15.9	19.1	12 27	3 29.59	+16 43.2	1.477	2.309	16.3	21.1
266854	Sezenaksu		11 23.9 166°35'	0°0'/23.9	18		303601	2005 <i>JU</i> ₄		11 23.9 163°68'	6°1'/21.7	18	
10 18	4 25.65	+21 8.4	2.396	3.195	12.3	21.1	10 18	4 27.19	+3 18.9	2.042	2.845	14.1	20.1
10 28	4 20.59	+21 6.0	2.312	3.197	9.5	20.9	10 28	4 21.92	+2 51.0	1.970	2.847	11.3	19.9
11 7	4 13.57	+20 58.9	2.252	3.199	6.2	20.7	11 7	4 14.50	+2 30.7	1.920	2.849	8.5	19.8
11 17	4 5.15	+20 47.4	2.219	3.201	2.6	20.4	11 17	4 5.57	+2 21.9	1.896	2.850	6.4	19.7
11 27	3 56.16	+20 32.9	2.217	3.202	1.1	20.3	11 27	3 56.05	+2 27.8	1.901	2.852	6.5	19.7
12 7	3 47.50	+20 17.3	2.244	3.203	4.8	20.6	12 7	3 46.93	+2 49.9	1.933	2.853	8.6	19.8
12 17	3 40.02	+20 3.3	2.301	3.204	8.2	20.8	12 17	3 39.12	+3 27.8	1.992	2.854	11.5	20.0
12 27	3 34.38	+19 53.5	2.383	3.205	11.2	21.0	12 27	3 33.33	+4 19.8	2.075	2.855	14.2	20.2
156179	2001 <i>TR</i> ₁₈₇		11 23.9 35°48'	5°4'/25.7	18		370873	2005 <i>ES</i> ₈₅		11 23.9 308°12'	5°1'/21.4	17	
10 18	4 30.44	+30 31.7	1.217	2.035	20.8	19.4	10 18	4 22.22	+7 18.8	2.120	2.936	13.2	20.2
10 28	4 26.20	+31 22.7	1.163	2.050	16.6	19.2	10 28	4 18.24	+6 37.7	2.030	2.918	10.5	20.0
11 7	4 18.12	+31 58.3	1.127	2.066	12.0	19.0	11 7	4 12.21	+5 59.7	1.962	2.901	7.6	19.8
11 17	4 7.22	+32 13.4	1.114	2.083	7.4	18.8	11 17	4 4.67	+5 28.6	1.920	2.884	5.4	19.7
11 27	3 55.28	+32 6.4	1.124	2.100	5.4	18.7	11 27	3 56.42	+5 8.6	1.906	2.866	5.6	19.6
12 7	3 44.33	+31 40.7	1.160	2.119	8.3	18.9	12 7	3 48.40	+5 2.5	1.920	2.850	8.0	19.8
12 17	3 36.00	+31 3.9	1.220	2.137	12.6	19.2	12 17	3 41.50	+5 11.7	1.961	2.833	11.1	19.9
12 27	3 31.34	+30 25.0	1.301	2.157	16.6	19.5	12 27	3 36.46	+5 36.4	2.024	2.817	14.0	20.1
207017	2004 <i>VB</i> ₆		11 23.9 51°83'	0°8'/23.7	18		242834	2006 <i>DC</i> ₅₁		11 23.9 25°84'	5°0'/21.3	18	
10 18	4 28.04	+19 3.3	1.589	2.410	16.6	20.2	10 18	4 22.41	+7 40.7	2.143	2.958	13.1	20.4
10 28	4 23.31	+18 59.5	1.518	2.415	12.8	20.0	10 28	4 18.17	+6 49.2	2.072	2.960	10.3	20.2
11 7	4 15.76	+18 51.4	1.468	2.420	8.4	19.7	11 7	4 12.02	+6 0.6	2.024	2.963	7.4	20.0
11 17	4 6.16	+18 39.7	1.444	2.426	3.5	19.5	11 17	4 4.53	+5 19.1	2.002	2.965	5.3	19.9
11 27	3 55.74	+18 26.5	1.446	2.431	1.9	19.4	11 27	3 56.52	+4 48.7	2.009	2.967	5.5	19.9
12 7	3 45.90	+18 14.7	1.477	2.437	6.7	19.7	12 7	3 48.90	+4 32.5	2.043	2.970	7.8	20.1
12 17	3 37.84	+18 7.7	1.534	2.442	11.2	20.0	12 17	3 42.46	+4 31.6	2.104	2.973	10.6	20.3
12 27	3 32.45	+18 8.3	1.613	2.448	15.0	20.2	12 27	3 37.83	+4 46.1	2.189	2.975	13.3	20.4
358674	2007 <i>XC</i> ₅₂		11 23.9 273°96'	1°6'/24.6	18		16693	Moseley		11 23.9 19°34'	4°2'/26.2	18	

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
327818	2006 VZ ₁₅₁		11 23.9 66°92	1.2°/23.6	18		76958	2001 BZ ₃₂		11 23.9 221°11	4°1/22.0	18	
10 18	4 32.91	+19 2.4	1.295	2.122	19.3	20.7	10 18	4 26.36	+10 36.0	2.090	2.900	13.5	19.9
10 28	4 27.16	+18 46.9	1.250	2.150	14.8	20.5	10 28	4 21.38	+9 56.3	2.005	2.894	10.6	19.7
11 7	4 18.20	+18 26.0	1.224	2.178	9.5	20.3	11 7	4 14.24	+9 17.4	1.943	2.886	7.3	19.5
11 17	4 7.11	+18 1.5	1.223	2.205	4.0	20.0	11 17	4 5.53	+8 42.7	1.908	2.879	4.6	19.3
11 27	3 55.48	+17 36.5	1.249	2.233	2.3	20.0	11 27	3 56.14	+8 15.8	1.901	2.870	4.6	19.3
12 7	3 44.95	+17 15.3	1.301	2.260	7.5	20.4	12 7	3 47.08	+8 0.0	1.924	2.862	7.4	19.4
12 17	3 36.78	+17 1.9	1.379	2.288	12.2	20.7	12 17	3 39.27	+7 57.1	1.974	2.853	10.7	19.6
12 27	3 31.73	+16 59.0	1.478	2.315	16.1	21.0	12 27	3 33.46	+8 7.9	2.048	2.844	13.8	19.8
468436	2001 WO ₄		11 23.9 290°25	0°3/24.1	17		264172	2010 CE ₁₂₂		11 23.9 358°24	2°9/23.1	18	
10 18	4 28.14	+25 58.6	1.126	1.963	20.9	21.3	10 18	4 22.29	+16 8.4	1.146	2.001	19.5	20.4
10 28	4 25.17	+25 8.3	1.032	1.937	16.7	20.9	10 28	4 19.84	+15 45.1	1.081	1.996	15.1	20.1
11 7	4 18.07	+23 55.6	0.957	1.911	11.3	20.5	11 7	4 13.99	+15 18.6	1.034	1.993	10.0	19.8
11 17	4 7.53	+22 20.0	0.903	1.885	4.9	20.1	11 17	4 5.60	+14 52.2	1.010	1.991	4.7	19.5
11 27	3 55.15	+20 26.6	0.873	1.859	2.1	19.8	11 27	3 56.11	+14 30.6	1.009	1.991	3.8	19.5
12 7	3 43.09	+18 26.9	0.868	1.832	9.2	20.1	12 7	3 47.27	+14 18.5	1.032	1.992	8.8	19.8
12 17	3 33.44	+16 35.1	0.887	1.806	15.9	20.4	12 17	3 40.55	+14 19.2	1.078	1.995	14.0	20.1
12 27	3 27.70	+15 4.0	0.924	1.780	21.8	20.6	12 27	3 37.03	+14 34.6	1.144	1.999	18.5	20.3
411177	2010 FO ₇₉		11 23.9 349°27	3°4/22.8	17		293507	2007 GG ₁₉		11 23.9 86°83	0°3/24.1	17	
10 18	4 20.50	+13 14.1	1.532	2.373	16.1	19.6	10 18	4 33.83	+22 6.9	1.247	2.072	20.0	21.1
10 28	4 17.70	+12 55.9	1.453	2.360	12.6	19.3	10 28	4 28.34	+22 4.7	1.191	2.089	15.5	20.8
11 7	4 12.24	+12 38.3	1.395	2.350	8.5	19.1	11 7	4 19.28	+21 53.8	1.154	2.106	10.2	20.6
11 17	4 4.79	+12 24.2	1.361	2.340	4.5	18.8	11 17	4 7.69	+21 34.1	1.141	2.122	4.3	20.3
11 27	3 56.41	+12 17.0	1.353	2.332	4.0	18.8	11 27	3 55.27	+21 7.9	1.153	2.139	1.8	20.2
12 7	3 48.42	+12 19.9	1.371	2.325	7.9	19.0	12 7	3 43.85	+20 39.9	1.192	2.155	7.5	20.6
12 17	3 41.98	+12 34.6	1.414	2.320	12.2	19.2	12 17	3 34.92	+20 15.6	1.257	2.171	12.7	20.9
12 27	3 38.01	+13 1.8	1.478	2.316	16.0	19.4	12 27	3 29.41	+20 0.1	1.343	2.186	17.0	21.2
523407	2017 DG ₁₂₁		11 23.9 134°10	4°1/21.8	18		199495	2006 DS ₉₂		11 23.9 250°88	0°3/24.1	18	
10 18	4 23.47	+8 6.7	2.504	3.309	11.7	21.2	10 18	4 24.49	+22 17.3	2.500	3.297	11.9	21.0
10 28	4 18.69	+7 33.6	2.431	3.315	9.2	21.0	10 28	4 19.77	+22 9.9	2.403	3.287	9.3	20.8
11 7	4 12.22	+7 3.4	2.382	3.320	6.5	20.9	11 7	4 13.12	+21 56.9	2.330	3.277	6.1	20.6
11 17	4 4.60	+6 38.9	2.361	3.326	4.4	20.8	11 17	4 5.06	+21 38.7	2.285	3.266	2.6	20.3
11 27	3 56.53	+6 23.1	2.369	3.331	4.5	20.8	11 27	3 56.36	+21 16.5	2.270	3.255	1.1	20.2
12 7	3 48.81	+6 17.9	2.407	3.337	6.6	20.9	12 7	3 47.92	+20 52.5	2.284	3.244	4.7	20.5
12 17	3 42.13	+6 24.2	2.472	3.342	9.2	21.1	12 17	3 40.54	+20 29.8	2.328	3.233	8.1	20.7
12 27	3 37.06	+6 42.0	2.562	3.347	11.6	21.3	12 27	3 34.93	+20 11.1	2.398	3.221	11.1	20.8
77786	2001 QT ₃₆		11 23.9 122°74	5°4/26.8	18		324175	2006 AU ₁₄		11 23.9 292°82	4°1/26.3	17	
10 18	4 29.67	+36 16.5	1.990	2.756	15.6	19.3	10 18	4 26.56	+33 47.7	2.207	2.980	14.1	20.8
10 28	4 24.50	+36 37.7	1.908	2.758	12.9	19.1	10 28	4 21.83	+33 58.2	2.117	2.975	11.5	20.6
11 7	4 16.53	+36 43.0	1.847	2.761	9.8	18.9	11 7	4 14.68	+33 55.5	2.048	2.970	8.4	20.4
11 17	4 6.53	+36 29.3	1.811	2.763	6.8	18.7	11 17	4 5.76	+33 37.3	2.005	2.966	5.5	20.2
11 27	3 55.69	+35 55.6	1.801	2.766	5.4	18.6	11 27	3 56.08	+33 3.5	1.990	2.961	4.1	20.1
12 7	3 45.40	+35 4.7	1.820	2.768	6.9	18.7	12 7	3 46.80	+32 16.8	2.004	2.957	5.9	20.2
12 17	3 36.88	+34 2.7	1.867	2.770	9.8	18.9	12 17	3 38.97	+31 22.0	2.045	2.952	8.9	20.4
12 27	3 30.99	+32 56.9	1.938	2.772	12.9	19.1	12 27	3 33.40	+30 25.1	2.113	2.948	12.0	20.6
446034	2013 CA ₉₀		11 23.9 329°76	5°8/21.7	18		25684	2000 AB ₁₁₄		11 23.9 359°44	3°7/22.5	18	R
10 18	4 24.00	+8 34.2	1.561	2.392	16.3	21.2	10 18	4 19.70	+16 10.1	1.175	2.033	18.9	17.8
10 28	4 20.26	+7 48.2	1.484	2.383	12.9	21.0	10 28	4 17.69	+15 15.8	1.111	2.028	14.6	17.5
11 7	4 13.84	+7 5.3	1.429	2.374	9.2	20.8	11 7	4 12.49	+14 16.0	1.066	2.025	9.7	17.2
11 17	4 5.43	+6 30.6	1.397	2.366	6.3	20.6	11 17	4 4.95	+13 15.8	1.043	2.024	5.0	16.9
11 27	3 56.15	+6 9.5	1.392	2.358	6.4	20.6	11 27	3 56.45	+12 22.5	1.045	2.024	4.6	16.9
12 7	3 47.28	+6 5.8	1.413	2.351	9.5	20.7	12 7	3 48.60	+11 42.8	1.070	2.027	9.2	17.2
12 17	3 39.99	+6 20.8	1.458	2.344	13.3	20.9	12 17	3 42.75	+11 21.2	1.118	2.030	14.1	17.5
12 27	3 35.19	+6 54.0	1.525	2.338	16.9	21.2	12 27	3 39.88	+11 19.7	1.188	2.036	18.4	17.8
271306	2003 UZ ₃₅₀		11 23.9 310°10	2°3/24.8	17		461310	2015 XJ ₁₇₀		11 23.9 131°40	2°1/22.7	18	
10 18	4 26.68	+25 55.5	2.118	2.914	13.9	21.2	10 18	4 23.94	+16 46.5	2.245	3.055	12.7	21.3
10 28	4 22.00	+26 28.3	2.023	2.903	10.9	21.0	10 28	4 19.32	+16 2.3	2.167	3.059	9.8	21.1
11 7	4 14.87	+26 54.8	1.951	2.891	7.6	20.8	11 7	4 12.77	+15 14.3	2.113	3.062	6.4	20.9
11 17	4 5.87	+27 13.2	1.905	2.880	4.0	20.6	11 17	4 4.89	+14 25.2	2.086	3.066	3.1	20.7
11 27	3 55.94	+27 22.4	1.887	2.869	2.5	20.4	11 27	3 56.49	+13 38.4	2.089	3.069	2.7	20.7
12 7	3 46.24	+27 23.5	1.899	2.858	5.6	20.6	12 7	3 48.51	+12 57.7	2.122	3.072	5.8	20.9
12 17	3 37.84	+27 18.9	1.939	2.847	9.2	20.8	12 17	3 41.72	+12 26.0	2.183	3.075	9.2	21.1
12 27	3 31.65	+27 12.7	2.003	2.837	12.6	21.0	12 27	3 36.78	+12 5.6	2.269	3.078	12.1	21.3
351422	2005 GA ₄₃		11 23.9 238°80	0°8/23.6	18		249117	2007 WW ₈		11 23.9 343°77	6°7/26.8	18	
10 18	4 28.48	+18 2.3	2.126	2.929	13.6	21.7	10 18	4 23.90	+35 22.8	1.395	2.200	19.3	19.3
10 28	4 23.17	+18 5.1	2.030	2.918	10.5	21.4	10 28	4 21.31	+35 56.8	1.313	2.187	16.0	19.1
11 7	4 15.53	+18 5.4	1.958	2.906	6.9	21.2	11 7	4 15.16	+36 12.0	1.249	2.176	12.2	18.8
11 17	4 6.11	+18 3.7	1.913	2.894	2.9	20.9	11 17	4 6.19	+36 3.3	1.206	2.165	8.5	18.6
11 27	3 55.86	+18 1.1	1.897	2.881	1.7	20.8	11 27	3 55.88	+35 28.4	1.187	2.156	6.7	18.4
12 7	3 45.84	+17 59.4	1.911	2.868	5.7	21.1	12 7	3 46.08	+34 30.6	1.193	2.148	8.7	18.5
12 17	3 37.10	+18 0.8	1.954	2.855	9.6	21.3	12 17	3 38.48	+33 18.0	1.223	2.142	12.6	18.7
12 27	3 30.46	+18 7.6	2.022	2.841	13.0	21.5	12 27	3 34.28	+32 1.3	1.275	2.136	16.5	19.0
306788	2001 HV ₂₄		11 23.9 95°16	0°0/23.9	17		303105	2004 BK ₁₁₇		11 23.9 320°43	9°2/26.9	17	
10 18	4 37.49	+21 8.4											

EPHEMERIDES

11 23.9

11 24.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
256272	2006 <i>WA</i> ₉₀		11 23.9 112°14'	2°2'/23.0	18		146270	2001 <i>DT</i> ₅₀		11 23.9 193°21'	0°3'/24.1	18	
10 18	4 26.02	+14 55.2	2.087	2.898	13.5	20.6	10 18	4 31.92	+20 45.9	1.601	2.413	16.9	19.9
10 28	4 21.07	+14 38.8	2.012	2.904	10.4	20.4	10 28	4 26.54	+21 1.6	1.521	2.413	13.2	19.7
11 7	4 13.99	+14 21.4	1.960	2.909	6.9	20.2	11 7	4 18.09	+21 12.5	1.463	2.412	8.7	19.4
11 17	4 5.42	+14 4.8	1.936	2.915	3.3	20.0	11 17	4 7.32	+21 18.0	1.429	2.410	3.7	19.1
11 27	3 56.27	+13 51.4	1.940	2.921	2.7	20.0	11 27	3 55.50	+21 18.3	1.423	2.409	1.6	19.0
12 7	3 47.54	+13 43.4	1.974	2.926	6.1	20.2	12 7	3 44.16	+21 15.5	1.446	2.407	6.7	19.3
12 17	3 40.12	+13 43.0	2.036	2.931	9.6	20.4	12 17	3 34.66	+21 13.0	1.495	2.405	11.4	19.6
12 27	3 34.71	+13 51.3	2.122	2.937	12.7	20.6	12 27	3 28.03	+21 14.6	1.568	2.402	15.4	19.8
74396	1998 <i>XK</i> ₆₈		11 23.9 0°15'	1°3'/24.6	18		449916	2015 <i>NQ</i> ₁₅		11 23.9 149°23'	2°0'/25.0	18	
10 18	4 26.28	+25 37.0	1.774	2.582	15.6	19.0	10 18	4 30.26	+27 30.1	2.170	2.954	13.9	21.9
10 28	4 21.87	+25 24.7	1.694	2.582	12.2	18.7	10 28	4 24.41	+27 29.0	2.090	2.963	11.0	21.7
11 7	4 14.82	+25 1.9	1.635	2.582	8.2	18.5	11 7	4 16.23	+27 18.1	2.034	2.972	7.5	21.5
11 17	4 5.84	+24 28.5	1.602	2.581	3.8	18.2	11 17	4 6.40	+26 56.6	2.004	2.980	3.8	21.3
11 27	3 56.08	+23 46.5	1.597	2.582	1.7	18.1	11 27	3 55.96	+26 25.3	2.004	2.987	2.1	21.2
12 7	3 46.83	+23 0.1	1.620	2.582	5.9	18.4	12 7	3 46.01	+25 47.3	2.035	2.994	5.2	21.5
12 17	3 39.22	+22 14.5	1.670	2.582	10.2	18.6	12 17	3 37.55	+25 7.0	2.094	3.000	8.8	21.7
12 27	3 34.10	+21 35.1	1.744	2.583	13.9	18.9	12 27	3 31.33	+24 29.1	2.179	3.006	11.9	21.9
225120	2008 <i>EE</i> ₈₂		11 23.9 132°06'	3°8'/22.3	18		501571	2014 <i>OQ</i> ₉₇		11 23.9 129°81'	18°8'/16.6	17	
10 18	4 29.35	+13 22.3	1.709	2.525	15.8	20.6	10 18	4 30.38	-16 56.3	1.275	2.050	22.4	20.6
10 28	4 23.94	+12 33.6	1.642	2.536	12.2	20.4	10 28	4 25.45	-19 20.3	1.241	2.055	20.5	20.5
11 7	4 15.99	+11 43.6	1.598	2.546	8.2	20.2	11 7	4 17.30	-21 13.5	1.224	2.060	19.2	20.4
11 17	4 6.27	+10 56.2	1.580	2.555	4.6	20.0	11 17	4 6.91	-22 22.8	1.224	2.065	18.8	20.4
11 27	3 55.94	+10 16.1	1.590	2.565	4.4	20.0	11 27	3 55.76	-22 39.3	1.243	2.070	19.3	20.4
12 7	3 46.22	+9 47.5	1.629	2.573	7.8	20.3	12 7	3 45.48	-22 2.5	1.280	2.075	20.6	20.5
12 17	3 38.18	+9 33.1	1.694	2.581	11.7	20.5	12 17	3 37.38	-20 38.3	1.333	2.079	22.2	20.7
12 27	3 32.59	+9 33.9	1.782	2.589	15.0	20.8	12 27	3 32.34	-18 36.7	1.400	2.083	23.9	20.8
276857	2004 <i>RX</i> ₁₃₇		11 23.9 126°36'	1°7'/23.1	17		227191	2005 <i>QZ</i> ₆₈		11 24.0 64°64'	4°3'/22.9	18	
10 18	4 29.52	+19 27.9	1.961	2.766	14.5	21.2	10 18	4 30.63	+10 29.3	1.406	2.233	18.1	19.8
10 28	4 23.72	+18 32.3	1.892	2.781	11.1	21.0	10 28	4 25.41	+10 19.5	1.348	2.246	14.0	19.6
11 7	4 15.66	+17 30.0	1.848	2.797	7.2	20.8	11 7	4 17.20	+10 14.0	1.310	2.259	9.6	19.4
11 17	4 6.09	+16 24.0	1.831	2.811	3.2	20.6	11 17	4 6.87	+10 15.9	1.297	2.272	5.4	19.2
11 27	3 56.05	+15 18.8	1.843	2.825	2.4	20.6	11 27	3 55.79	+10 27.6	1.310	2.286	4.9	19.2
12 7	3 46.64	+14 19.4	1.886	2.839	6.2	20.8	12 7	3 45.45	+10 50.7	1.350	2.299	8.6	19.4
12 17	3 38.80	+13 30.1	1.957	2.852	10.0	21.1	12 17	3 37.11	+11 25.5	1.415	2.313	12.8	19.7
12 27	3 33.19	+12 54.0	2.053	2.864	13.2	21.3	12 27	3 31.64	+12 11.1	1.503	2.326	16.5	20.0
373017	2011 <i>DR</i> ₂₀		11 23.9 221°69'	5°5'/20.8	17		108318	2001 <i>JV</i> ₆		11 24.0 112°92'	0°4'/23.9	18	
10 18	4 22.54	+3 23.4	2.593	3.392	11.5	21.6	10 18	4 32.59	+19 23.1	1.652	2.462	16.5	20.2
10 28	4 18.01	+2 36.8	2.513	3.387	9.3	21.5	10 28	4 26.69	+19 31.6	1.585	2.475	12.8	20.0
11 7	4 11.84	+1 55.3	2.458	3.382	7.1	21.3	11 7	4 17.95	+19 36.2	1.539	2.489	8.3	19.8
11 17	4 4.51	+1 22.5	2.429	3.377	5.6	21.2	11 17	4 7.19	+19 36.7	1.520	2.502	3.5	19.5
11 27	3 56.71	+1 2.0	2.430	3.372	5.9	21.2	11 27	3 55.66	+19 34.1	1.529	2.514	1.6	19.4
12 7	3 49.18	+0 55.8	2.458	3.366	7.6	21.3	12 7	3 44.78	+19 30.9	1.567	2.526	6.4	19.8
12 17	3 42.60	+1 4.7	2.514	3.360	9.9	21.5	12 17	3 35.77	+19 29.9	1.631	2.538	10.8	20.1
12 27	3 37.55	+1 28.1	2.594	3.355	12.1	21.6	12 27	3 29.49	+19 34.2	1.720	2.549	14.5	20.3
194172	2001 <i>TU</i> ₃₈		11 23.9 98°87'	3°1'/25.6	18		385810	2006 <i>DB</i> ₁₂₀		11 24.0 88°43'	6°8'/26.9	18	
10 18	4 33.70	+30 40.0	1.800	2.583	16.4	20.0	10 18	4 36.79	+37 4.0	1.803	2.561	17.3	19.6
10 28	4 27.31	+30 37.4	1.739	2.608	13.0	19.8	10 28	4 30.26	+38 4.9	1.741	2.583	14.3	19.5
11 7	4 18.16	+30 20.7	1.699	2.632	9.1	19.7	11 7	4 20.45	+38 49.4	1.700	2.605	11.0	19.3
11 17	4 7.16	+29 48.4	1.684	2.655	5.1	19.5	11 17	4 8.27	+39 12.1	1.683	2.627	8.1	19.2
11 27	3 55.62	+29 2.0	1.699	2.678	3.2	19.4	11 27	3 55.20	+39 10.0	1.693	2.648	6.8	19.2
12 7	3 44.95	+28 6.0	1.742	2.701	6.0	19.6	12 7	3 42.91	+38 45.4	1.731	2.669	8.1	19.3
12 17	3 36.25	+27 6.9	1.814	2.722	9.8	19.9	12 17	3 32.82	+38 4.4	1.796	2.689	10.8	19.5
12 27	3 30.29	+26 11.3	1.910	2.743	13.1	20.2	12 27	3 25.88	+37 15.5	1.884	2.709	13.6	19.7
64011	2001 <i>SX</i> ₁₃₄		11 23.9 336°45'	2°2'/22.9	18		470172	2006 <i>UP</i> ₂₁₉		11 24.0 34°72'	5°1'/22.6	18	
10 18	4 24.47	+16 59.4	1.826	2.648	14.7	19.1	10 18	4 27.27	+11 41.4	1.102	1.952	20.4	20.6
10 28	4 20.27	+16 23.3	1.747	2.645	11.4	18.9	10 28	4 23.44	+11 5.8	1.053	1.964	15.9	20.3
11 7	4 13.68	+15 43.0	1.690	2.642	7.5	18.7	11 7	4 16.16	+10 32.8	1.023	1.977	10.8	20.1
11 17	4 5.37	+15 1.1	1.659	2.639	3.5	18.4	11 17	4 6.48	+10 7.6	1.015	1.992	6.2	19.9
11 27	3 56.35	+14 21.4	1.656	2.637	2.9	18.4	11 27	3 55.99	+9 55.3	1.031	2.007	5.8	19.9
12 7	3 47.76	+13 48.0	1.681	2.635	6.7	18.6	12 7	3 46.45	+9 59.2	1.071	2.023	9.9	20.2
12 17	3 40.62	+13 24.3	1.733	2.633	10.7	18.9	12 17	3 39.25	+10 20.3	1.134	2.039	14.6	20.5
12 27	3 35.71	+13 12.9	1.808	2.631	14.2	19.1	12 27	3 35.28	+10 57.5	1.217	2.057	18.6	20.8
394903	2008 <i>UL</i> ₃₅₂		11 23.9 79°95'	5°7'/22.2	18		360129	2013 <i>CX</i> ₃₄		11 24.0 248°59'	4°9'/26.6	18	
10 18	4 28.08	+6 1.5	1.742	2.556	15.6	20.5	10 18	4 29.53	+35 27.0	2.065	2.831	15.1	21.1
10 28	4 22.95	+5 37.3	1.676	2.563	12.4	20.3	10 28	4 24.43	+35 39.7	1.970	2.822	12.4	20.9
11 7	4 15.36	+5 20.0	1.632	2.570	8.9	20.1	11 7	4 16.59	+35 37.2	1.895	2.812	9.4	20.7
11 17	4 6.05	+5 13.2	1.613	2.577	6.2	20.0	11 17	4 6.69	+35 16.4	1.846	2.802	6.3	20.5
11 27	3 56.08	+5 20.4	1.622	2.584	6.1	20.0	11 27	3 55.85	+34 36.4	1.824	2.792	4.9	20.3
12 7	3 46.63	+5 42.9	1.658	2.591	8.8	20.2	12 7	3 45.44	+33 40.2	1.831	2.781	6.6	20.4
12 17	3 38.74	+6 20.5	1.720	2.597	12.1	20.4	12 17	3 36.65	+32 33.3	1.865	2.770	9.7	20.6
12 27	3 33.19	+7 11.6	1.805	2.604	15.2	20.6	12 27	3 30.41	+31 23.3	1.925	2.759	13.0	20.8
100738	1998 <i>DB</i> ₁₂		11 23.9 68°60'	3°2'/22.9	18		329535	2002 <i>TL</i>					