

EPHEMERIDES

11 19.9

11 20.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
391906	2008 <i>UX</i> ₁₂₇		11 19.9 220°57	1.3°/19.5	18		475287	2005 <i>WH</i> ₁₇₂		11 20.0 53°91	1.3°/19.5	16	
10 18	4 11.84	+15 25.2	1.853	2.698	13.6	21.3	10 18	4 10.57	+17 36.7	1.344	2.207	16.6	21.7
10 28	4 5.17	+15 38.2	1.776	2.694	10.0	21.0	10 28	4 4.60	+17 21.9	1.294	2.221	12.1	21.4
11 7	3 56.16	+15 50.5	1.723	2.690	5.9	20.8	11 7	3 55.88	+17 2.4	1.267	2.236	7.0	21.2
11 17	3 45.59	+16 2.6	1.699	2.685	1.8	20.5	11 17	3 45.54	+16 40.5	1.264	2.251	1.9	20.9
11 27	3 34.61	+16 15.9	1.703	2.680	3.7	20.6	11 27	3 35.08	+16 20.0	1.288	2.266	4.3	21.1
12 7	3 24.46	+16 32.0	1.737	2.675	8.0	20.9	12 7	3 25.98	+16 5.3	1.338	2.281	9.3	21.4
12 17	3 16.17	+16 52.7	1.797	2.670	11.9	21.1	12 17	3 19.33	+15 59.8	1.412	2.297	13.7	21.7
12 27	3 10.47	+17 19.5	1.881	2.664	15.3	21.3	12 27	3 15.79	+16 5.6	1.507	2.313	17.4	22.0
356096	2009 <i>EE</i> ₄		11 19.9 196°75	3°8/21.9	18		385124	2012 <i>XV</i> ₁₅₃		11 20.0 342°99	5°0/17.9	18	
10 18	4 12.54	+30 45.2	2.264	3.070	12.8	21.1	10 18	4 6.96	+ 9 25.2	1.486	2.351	15.2	20.0
10 28	4 5.57	+31 19.4	2.181	3.068	9.9	20.9	10 28	4 1.89	+ 8 42.9	1.421	2.346	11.4	19.7
11 7	3 56.36	+31 42.3	2.122	3.065	6.9	20.7	11 7	3 54.35	+ 8 3.6	1.379	2.342	7.5	19.5
11 17	3 45.63	+31 51.5	2.091	3.062	4.3	20.5	11 17	3 45.22	+ 7 32.1	1.363	2.339	5.1	19.3
11 27	3 34.50	+31 46.6	2.090	3.058	4.3	20.5	11 27	3 35.76	+ 7 13.7	1.372	2.336	6.8	19.4
12 7	3 24.12	+31 30.0	2.119	3.054	7.0	20.7	12 7	3 27.30	+ 7 11.8	1.408	2.333	10.7	19.7
12 17	3 15.49	+31 6.0	2.175	3.049	10.0	20.9	12 17	3 20.90	+ 7 27.6	1.467	2.331	14.6	19.9
12 27	3 9.35	+30 39.8	2.255	3.044	12.9	21.0	12 27	3 17.27	+ 8 0.2	1.546	2.329	18.0	20.1
386928	2011 <i>LJ</i> ₂₄		11 19.9 222°89	2°8/18.7	18		52428	1994 <i>PE</i> ₄		11 20.0 21°30	0°5/19.8	18	
10 18	4 9.73	+13 36.6	1.857	2.706	13.3	22.0	10 18	4 7.00	+20 47.1	1.096	1.973	18.5	18.5
10 28	4 3.57	+13 5.1	1.779	2.699	9.8	21.7	10 28	4 2.54	+20 19.3	1.047	1.980	13.6	18.3
11 7	3 55.19	+12 32.0	1.726	2.691	6.0	21.5	11 7	3 54.91	+19 41.0	1.017	1.988	7.9	18.0
11 17	3 45.36	+12 0.4	1.700	2.682	2.9	21.3	11 17	3 45.35	+18 55.5	1.010	1.998	1.8	17.6
11 27	3 35.20	+11 34.0	1.703	2.674	4.8	21.4	11 27	3 35.58	+18 8.8	1.028	2.009	4.4	17.9
12 7	3 25.84	+11 16.6	1.734	2.664	8.7	21.6	12 7	3 27.33	+17 28.0	1.070	2.020	10.2	18.2
12 17	3 18.27	+11 10.8	1.792	2.654	12.5	21.8	12 17	3 21.85	+16 59.0	1.135	2.033	15.2	18.6
12 27	3 13.18	+11 17.9	1.871	2.644	15.7	22.0	12 27	3 19.81	+16 45.4	1.218	2.047	19.3	18.9
226942	2004 <i>TS</i> ₃₃₃		11 20.0 284°51	0°7/19.6	18		9779	1994 <i>RA</i> ₁₁		11 20.0 119°43	1°4/20.7	18	
10 18	4 5.40	+19 15.6	2.181	3.026	11.8	20.7	10 18	4 13.69	+24 47.9	1.813	2.644	14.4	18.8
10 28	4 0.13	+18 47.8	2.105	3.024	8.6	20.5	10 28	4 6.37	+24 39.7	1.754	2.663	10.7	18.6
11 7	3 53.05	+18 14.5	2.054	3.021	5.0	20.3	11 7	3 56.73	+24 20.9	1.720	2.681	6.5	18.4
11 17	3 44.84	+17 37.7	2.032	3.019	1.2	20.0	11 17	3 45.74	+23 51.8	1.713	2.698	2.2	18.2
11 27	3 36.42	+17 0.4	2.039	3.017	3.0	20.2	11 27	3 34.68	+23 15.3	1.735	2.715	3.2	18.3
12 7	3 28.72	+16 26.4	2.075	3.014	6.8	20.4	12 7	3 24.78	+22 36.0	1.787	2.731	7.4	18.6
12 17	3 22.52	+15 59.1	2.138	3.012	10.2	20.6	12 17	3 17.02	+21 59.1	1.866	2.746	11.2	18.8
12 27	3 18.38	+15 40.9	2.224	3.009	13.1	20.8	12 27	3 11.98	+21 29.2	1.968	2.760	14.4	19.1
441296	2007 <i>YV</i> ₃₈		11 20.0 354°86	1°5/19.4	18		28555	Jenniferchan		11 20.0 301°01	1°4/19.4	18	
10 18	4 7.87	+16 13.1	1.582	2.442	14.7	20.7	10 18	4 9.37	+18 2.1	1.483	2.343	15.6	18.8
10 28	4 2.52	+16 10.4	1.514	2.439	10.8	20.4	10 28	4 3.78	+17 37.2	1.414	2.339	11.4	18.5
11 7	3 54.69	+16 5.3	1.469	2.437	6.3	20.2	11 7	3 55.51	+17 6.2	1.367	2.335	6.7	18.2
11 17	3 45.26	+15 59.5	1.449	2.436	1.9	19.9	11 17	3 45.51	+16 31.8	1.345	2.332	1.9	17.9
11 27	3 35.47	+15 55.6	1.457	2.435	4.1	20.0	11 27	3 35.13	+15 58.3	1.351	2.329	4.3	18.1
12 7	3 26.64	+15 56.5	1.493	2.435	8.7	20.3	12 7	3 25.82	+15 30.5	1.383	2.325	9.2	18.4
12 17	3 19.85	+16 4.7	1.553	2.435	12.9	20.5	12 17	3 18.73	+15 12.8	1.440	2.322	13.7	18.6
12 27	3 15.83	+16 22.0	1.634	2.435	16.4	20.8	12 27	3 14.62	+15 8.0	1.518	2.319	17.5	18.9
224082	2005 <i>NE</i> ₈₀		11 20.0 67°78	0°4/19.9	18		324748	2007 <i>FQ</i> ₂₅		11 20.0 223°11	1°0/20.6	17	
10 18	4 13.69	+18 17.7	1.357	2.214	16.9	20.0	10 18	4 7.26	+23 31.4	2.290	3.123	11.7	21.9
10 28	4 6.89	+18 31.5	1.307	2.231	12.3	19.8	10 28	4 1.52	+23 30.1	2.210	3.120	8.7	21.7
11 7	3 57.22	+18 40.8	1.279	2.247	7.2	19.5	11 7	3 53.91	+23 21.5	2.155	3.117	5.3	21.5
11 17	3 45.83	+18 45.9	1.277	2.264	1.7	19.2	11 17	3 45.11	+23 5.8	2.127	3.113	1.7	21.2
11 27	3 34.29	+18 48.6	1.301	2.281	3.9	19.4	11 27	3 36.03	+22 44.7	2.130	3.110	2.7	21.3
12 7	3 24.17	+18 52.1	1.353	2.298	9.1	19.8	12 7	3 27.64	+22 21.0	2.163	3.106	6.3	21.5
12 17	3 16.62	+18 59.6	1.429	2.315	13.5	20.1	12 17	3 20.77	+21 58.3	2.223	3.102	9.6	21.7
12 27	3 12.32	+19 14.0	1.527	2.332	17.2	20.4	12 27	3 16.00	+21 40.1	2.307	3.098	12.5	21.9
189203	2003 <i>SL</i> ₄₀		11 20.0 59°03	1°9/21.2	18		193058	2000 <i>FE</i> ₆₄		11 20.0 212°22	2°7/21.6	18	
10 18	4 7.31	+26 42.3	2.053	2.884	13.0	19.5	10 18	4 8.18	+28 29.7	2.588	3.402	11.1	20.3
10 28	4 1.57	+26 35.1	1.993	2.900	9.7	19.3	10 28	4 2.11	+28 51.0	2.504	3.398	8.5	20.1
11 7	3 53.87	+26 17.1	1.958	2.916	6.1	19.2	11 7	3 54.24	+29 3.4	2.446	3.395	5.6	19.9
11 17	3 45.04	+25 48.9	1.949	2.932	2.6	19.0	11 17	3 45.19	+29 5.7	2.415	3.392	3.1	19.8
11 27	3 36.10	+25 12.9	1.970	2.948	3.1	19.0	11 27	3 35.84	+28 58.4	2.415	3.388	3.3	19.8
12 7	3 28.11	+24 33.1	2.020	2.965	6.5	19.3	12 7	3 27.09	+28 43.4	2.445	3.384	5.9	20.0
12 17	3 21.86	+23 54.0	2.097	2.981	9.9	19.5	12 17	3 19.77	+28 24.2	2.503	3.380	8.8	20.1
12 27	3 17.91	+23 20.1	2.197	2.998	12.8	19.7	12 27	3 14.45	+28 4.5	2.586	3.376	11.4	20.3
517072	2013 <i>CS</i> ₇₀		11 20.0 212°23	1°4/19.2	18		169901	2002 <i>RT</i> ₂₀₆		11 20.0 327°20	1°6/19.2	18	
10 18	4 7.22	+17 59.0	1.918	2.767	13.0	21.6	10 18	4 7.04	+17 44.4	1.768	2.622	13.7	20.1
10 28	4 1.64	+17 19.6	1.845	2.766	9.5	21.4	10 28	4 1.67	+17 7.0	1.698	2.621	10.0	19.9
11 7	3 54.00	+16 34.6	1.796	2.764	5.5	21.1	11 7	3 54.10	+16 24.0	1.651	2.619	5.8	19.6
11 17	3 45.09	+15 46.8	1.775	2.762	1.7	20.9	11 17	3 45.16	+15 38.5	1.631	2.618	1.9	19.4
11 27	3 35.95	+15 0.4	1.784	2.760	3.7	21.0	11 27	3 35.96	+14 54.9	1.640	2.616	4.0	19.5
12 7	3 27.65	+14 20.0	1.821	2.758	7.8	21.3	12 7	3 27.67	+14 17.7	1.677	2.615	8.2	19.8
12 17	3 21.08	+13 49.2	1.884	2.755	11.5	21.5	12 17	3 21.22	+13 50.9	1.739	2.614	12.1	20.0
12 27	3 16.84	+13 30.8	1.970	2.753	14.7	21.7	12 27	3 17.25	+13 37.0	1.823	2.613	15.4	20.2
115258	2003 <i>SD</i> ₁₆₄		11 20.0 51°01	1°5/20.6	18		47830	2000 <i>EF</i> ₁₁₁					

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
150096	3023 T_{-2}		11 20.0 30°52	4.8/21.5	18		264840	2002 QM_{70}		11 20.0 212°54	4.7/16.6	18	
10 18	4 12.18	+27 27.2	1.038	1.901	20.4	18.8	10 18	4 4.43	+3 17.3	2.837	3.670	9.7	21.3
10 28	4 6.72	+28 21.5	0.995	1.916	15.6	18.6	10 28	3 59.04	+2 36.4	2.763	3.664	7.5	21.2
11 7	3 57.52	+28 59.4	0.972	1.932	10.2	18.3	11 7	3 52.30	+2 0.5	2.715	3.657	5.6	21.0
11 17	3 45.98	+29 16.9	0.970	1.950	5.5	18.1	11 17	3 44.75	+1 32.8	2.695	3.649	4.8	21.0
11 27	3 34.20	+29 14.0	0.992	1.968	5.9	18.2	11 27	3 37.02	+1 16.2	2.706	3.641	5.7	21.0
12 7	3 24.26	+28 56.4	1.038	1.988	10.4	18.5	12 7	3 29.78	+1 12.5	2.745	3.633	7.7	21.1
12 17	3 17.63	+28 32.3	1.106	2.008	15.1	18.9	12 17	3 23.62	+1 22.2	2.811	3.625	9.9	21.3
12 27	3 15.03	+28 10.1	1.193	2.030	19.1	19.2	12 27	3 19.01	+1 44.7	2.900	3.615	12.0	21.4
331192	2011 AD_{61}		11 20.0 256°58	2°1/18.8	18		376623	2013 PR_{49}		11 20.0 191°00	3°2/22.3	18	
10 18	4 5.73	+13 44.0	2.456	3.300	10.7	21.9	10 18	4 7.68	+32 16.8	2.914	3.710	10.5	22.0
10 28	4 0.27	+13 23.8	2.369	3.287	7.8	21.7	10 28	4 1.59	+32 24.8	2.829	3.709	8.2	21.9
11 7	3 53.15	+13 2.6	2.308	3.273	4.7	21.5	11 7	3 53.87	+32 22.0	2.769	3.707	5.7	21.7
11 17	3 44.94	+12 42.5	2.275	3.259	2.2	21.3	11 17	3 45.12	+32 7.4	2.737	3.705	3.6	21.6
11 27	3 36.45	+12 25.9	2.273	3.244	3.7	21.4	11 27	3 36.16	+31 42.0	2.735	3.702	3.5	21.6
12 7	3 28.49	+12 15.4	2.300	3.230	6.9	21.6	12 7	3 27.79	+31 8.0	2.764	3.699	5.5	21.7
12 17	3 21.82	+12 12.8	2.355	3.215	10.0	21.7	12 17	3 20.74	+30 29.2	2.821	3.696	8.0	21.9
12 27	3 16.99	+12 19.4	2.433	3.200	12.7	21.9	12 27	3 15.55	+29 49.8	2.904	3.692	10.3	22.0
364904	2008 EW_{129}		11 20.0 301°26	2°5/18.9	18		226058	2002 GO_{145}		11 20.0 153°76	0°6/19.6	18	
10 18	4 6.85	+14 8.6	1.805	2.660	13.4	21.0	10 18	4 5.91	+19 29.7	2.431	3.270	10.9	21.1
10 28	4 1.63	+13 47.3	1.722	2.645	9.9	20.7	10 28	4 0.32	+19 0.4	2.359	3.274	8.0	20.9
11 7	3 54.17	+13 24.4	1.663	2.630	5.9	20.5	11 7	3 53.11	+18 26.0	2.312	3.278	4.6	20.7
11 17	3 45.21	+13 2.7	1.631	2.615	2.6	20.2	11 17	3 44.94	+17 48.2	2.295	3.282	1.1	20.5
11 27	3 35.82	+12 45.5	1.627	2.601	4.5	20.3	11 27	3 36.62	+17 9.9	2.308	3.286	2.8	20.6
12 7	3 27.16	+12 36.3	1.651	2.586	8.6	20.5	12 7	3 28.98	+16 34.6	2.351	3.289	6.2	20.8
12 17	3 20.23	+12 37.5	1.700	2.572	12.6	20.7	12 17	3 22.73	+16 5.2	2.421	3.292	9.3	21.0
12 27	3 15.78	+12 50.6	1.772	2.558	16.0	20.9	12 27	3 18.36	+15 44.2	2.517	3.295	12.0	21.2
262431	2006 UU_{81}		11 20.0 73°45	1°3/19.3	18		137311	1999 TX_9		11 20.0 357°26	6°3/18.8	18	
10 18	4 7.35	+17 46.0	1.862	2.714	13.2	21.1	10 18	4 25.58	+15 27.4	0.829	1.701	23.4	15.7
10 28	4 1.71	+17 17.3	1.800	2.721	9.6	20.9	10 28	4 18.79	+19 41.4	0.762	1.691	17.9	15.3
11 7	3 54.04	+16 44.0	1.762	2.729	5.6	20.7	11 7	4 6.18	+24 25.3	0.718	1.684	11.5	14.9
11 17	3 45.14	+16 8.6	1.750	2.737	1.7	20.4	11 17	3 48.43	+29 15.0	0.699	1.680	6.5	14.6
11 27	3 36.08	+15 34.7	1.768	2.745	3.6	20.6	11 27	3 28.03	+33 37.9	0.707	1.678	9.2	14.8
12 7	3 27.95	+15 6.3	1.814	2.753	7.7	20.8	12 7	3 8.68	+37 10.9	0.742	1.680	15.5	15.1
12 17	3 21.59	+14 46.6	1.887	2.761	11.4	21.1	12 17	2 53.81	+39 50.3	0.798	1.684	21.3	15.5
12 27	3 17.59	+14 37.7	1.982	2.769	14.4	21.3	12 27	2 45.54	+41 48.7	0.872	1.691	25.9	15.8
387626	2002 JJ_{121}		11 20.0 164°11	5°8/17.2	18		158691	2003 FV_{64}		11 20.0 180°62	0°5/19.8	18	
10 18	4 8.73	+4 4.6	2.029	2.870	12.7	21.3	10 18	4 10.89	+19 16.3	1.990	2.830	13.0	21.3
10 28	4 2.51	+3 22.0	1.967	2.874	9.8	21.1	10 28	4 4.31	+19 3.8	1.916	2.831	9.5	21.1
11 7	3 54.44	+2 46.0	1.930	2.878	7.1	20.9	11 7	3 55.61	+18 45.8	1.866	2.832	5.5	20.9
11 17	3 45.23	+2 21.0	1.921	2.881	5.8	20.9	11 17	3 45.56	+18 23.7	1.845	2.832	1.3	20.6
11 27	3 35.87	+2 10.7	1.940	2.883	7.0	21.0	11 27	3 35.24	+18 0.0	1.853	2.832	3.2	20.7
12 7	3 27.31	+2 16.8	1.987	2.886	9.7	21.1	12 7	3 25.78	+17 38.1	1.891	2.831	7.3	21.0
12 17	3 20.35	+2 39.5	2.059	2.888	12.5	21.3	12 17	3 18.08	+17 21.4	1.956	2.829	11.1	21.2
12 27	3 15.57	+3 17.2	2.153	2.889	15.0	21.5	12 27	3 12.81	+17 12.8	2.044	2.827	14.2	21.4
355985	2009 AV_{44}		11 20.0 282°53	5°5/22.4	18		233246	2005 YY_{111}		11 20.0 312°28	0°0/20.0	18	
10 18	4 11.90	+33 31.0	1.848	2.658	15.0	20.6	10 18	4 7.94	+21 3.0	1.419	2.280	16.0	20.6
10 28	4 5.75	+34 13.6	1.762	2.647	12.0	20.4	10 28	4 3.07	+20 47.4	1.339	2.265	11.9	20.3
11 7	3 56.79	+34 41.5	1.699	2.636	8.7	20.2	11 7	3 55.31	+20 22.4	1.281	2.250	7.1	20.0
11 17	3 45.86	+34 50.8	1.661	2.624	6.1	20.0	11 17	3 45.55	+19 49.4	1.248	2.235	1.7	19.6
11 27	3 34.30	+34 40.1	1.650	2.613	5.9	19.9	11 27	3 35.20	+19 12.1	1.241	2.221	3.9	19.8
12 7	3 23.61	+34 12.3	1.667	2.602	8.6	20.1	12 7	3 25.83	+18 36.1	1.261	2.208	9.3	20.0
12 17	3 15.06	+33 33.3	1.710	2.591	12.0	20.3	12 17	3 18.75	+18 7.1	1.304	2.195	14.2	20.3
12 27	3 9.57	+32 50.8	1.775	2.579	15.2	20.4	12 27	3 14.84	+17 49.9	1.368	2.182	18.4	20.5
332450	2008 BB_{14}		11 20.0 222°64	1°4/19.6	18		320108	2007 EB_{134}		11 20.0 120°49	0°2/20.1	18	
10 18	4 13.72	+15 49.9	1.593	2.442	15.2	21.0	10 18	4 6.92	+21 16.7	2.525	3.358	10.8	21.6
10 28	4 6.93	+15 57.5	1.517	2.437	11.2	20.7	10 28	4 0.98	+21 3.7	2.459	3.371	7.9	21.4
11 7	3 57.39	+16 3.6	1.464	2.431	6.6	20.5	11 7	3 53.46	+20 45.1	2.419	3.384	4.6	21.3
11 17	3 45.99	+16 9.1	1.437	2.424	1.9	20.1	11 17	3 45.03	+20 21.9	2.409	3.396	1.1	21.0
11 27	3 34.08	+16 15.6	1.440	2.417	4.1	20.3	11 27	3 36.48	+19 56.4	2.429	3.408	2.4	21.2
12 7	3 23.14	+16 25.5	1.470	2.410	9.0	20.6	12 7	3 28.65	+19 31.2	2.479	3.420	5.8	21.4
12 17	3 14.38	+16 41.3	1.526	2.402	13.4	20.8	12 17	3 22.20	+19 9.2	2.557	3.431	8.8	21.6
12 27	3 8.63	+17 5.1	1.604	2.395	17.2	21.0	12 27	3 17.61	+18 52.9	2.661	3.442	11.3	21.8
401749	2013 JY_{58}		11 20.0 333°55	1°6/19.2	17		66416	1999 NR_9		11 20.0 356°59	7°9/24.2	18	
10 18	4 6.58	+16 29.1	1.925	2.777	12.8	21.3	10 18	4 10.03	+38 53.6	1.442	2.252	18.5	17.9
10 28	4 1.19	+16 7.0	1.853	2.775	9.4	21.1	10 28	4 4.93	+39 17.5	1.371	2.249	15.2	17.7
11 7	3 53.78	+15 41.6	1.806	2.773	5.5	20.8	11 7	3 56.47	+39 16.1	1.320	2.247	11.7	17.5
11 17	3 45.10	+15 15.1	1.785	2.771	1.9	20.6	11 17	3 45.80	+38 44.8	1.292	2.246	8.7	17.3
11 27	3 36.16	+14 50.9	1.793	2.769	3.7	20.7	11 27	3 34.70	+37 44.0	1.288	2.245	8.0	17.3
12 7	3 28.01	+14 32.1	1.830	2.768	7.7	21.0	12 7	3 25.00	+36 20.5	1.309	2.246	10.2	17.4
12 17	3 21.55	+14 21.8	1.893	2.766	11.4	21.2	12 17	3 18.14	+34 44.9	1.354	2.246	13.7	17.6
12 27	3 17.38	+14 21.7	1.978	2.765	14.5	21.4	12 27	3 14.92	+33 9.3	1.421	2.248	17.1	17.8
455468	2003 US_{51}		11 20.0 357°39	5°1/23.6	16		20003	1991 EX_2		11 20.0 324°19	6°0/22.4	18	
10 18	4 2.77</												

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11 20.0

11 20.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
433912	2015 <i>BO</i> ₄₉₃		11 20.0 184°29	4.7/22.3	17		70168	1999 <i>NG</i> ₆₁		11 20.0 113°42	3°5/18.3	18	
10 18	4 14.44	+32 25.6	1.593	2.412	16.6	21.4	10 18	4 12.03	+13 47.3	1.571	2.425	15.1	19.0
10 28	4 7.68	+32 34.3	1.519	2.413	13.0	21.2	10 28	4 5.25	+12 47.6	1.520	2.442	11.0	18.8
11 7	3 57.89	+32 24.5	1.467	2.413	9.0	21.0	11 7	3 56.13	+11 46.1	1.494	2.459	6.7	18.6
11 17	3 46.13	+31 53.4	1.440	2.412	5.5	20.7	11 17	3 45.70	+10 47.7	1.494	2.475	3.6	18.5
11 27	3 33.98	+31 2.6	1.440	2.412	5.3	20.7	11 27	3 35.25	+9 58.3	1.523	2.491	5.6	18.6
12 7	3 23.09	+29 58.1	1.468	2.410	8.7	20.9	12 7	3 26.03	+9 22.6	1.579	2.506	9.6	18.9
12 17	3 14.76	+28 48.5	1.521	2.409	12.8	21.2	12 17	3 18.98	+9 3.3	1.660	2.521	13.4	19.2
12 27	3 9.76	+27 42.7	1.597	2.406	16.4	21.4	12 27	3 14.68	+9 1.0	1.763	2.535	16.6	19.4
487768	2015 <i>RM</i> ₂₀₅		11 20.0 208°31	1°4/19.4	18		6407	1992 <i>PF</i> ₂		11 20.0 149°06	1°5/19.3	18	
10 18	4 8.17	+16 22.9	1.963	2.811	12.8	21.4	10 18	4 11.84	+18 26.9	1.704	2.552	14.4	17.8
10 28	4 2.35	+16 12.9	1.891	2.811	9.3	21.1	10 28	4 5.16	+17 44.4	1.641	2.560	10.5	17.6
11 7	3 54.48	+16 0.2	1.843	2.810	5.5	20.9	11 7	3 56.14	+16 55.3	1.601	2.568	6.1	17.3
11 17	3 45.30	+15 46.5	1.823	2.809	1.7	20.7	11 17	3 45.72	+16 2.8	1.589	2.575	1.8	17.1
11 27	3 35.85	+15 34.4	1.832	2.808	3.6	20.8	11 27	3 35.15	+15 11.7	1.606	2.582	4.0	17.3
12 7	3 27.20	+15 26.5	1.869	2.808	7.5	21.0	12 7	3 25.67	+14 27.3	1.651	2.588	8.4	17.5
12 17	3 20.24	+15 25.3	1.934	2.807	11.2	21.3	12 17	3 18.26	+13 53.9	1.722	2.593	12.4	17.8
12 27	3 15.60	+15 32.7	2.021	2.806	14.3	21.5	12 27	3 13.54	+13 34.1	1.816	2.598	15.8	18.0
110616	2001 <i>TF</i> ₁₄₅		11 20.0 11°51	2°7/18.7	18		356046	2009 <i>CL</i> ₄₇		11 20.0 167°30	5°2/23.0	18	
10 18	4 6.67	+13 51.3	1.830	2.685	13.2	19.7	10 18	4 13.21	+35 54.4	2.308	3.093	13.2	21.4
10 28	4 1.31	+13 19.5	1.763	2.686	9.7	19.5	10 28	4 6.13	+36 26.6	2.230	3.097	10.6	21.3
11 7	3 53.88	+12 46.4	1.720	2.687	5.9	19.3	11 7	3 56.75	+36 43.7	2.176	3.100	7.9	21.1
11 17	3 45.16	+12 15.1	1.704	2.687	2.8	19.1	11 17	3 45.89	+36 43.1	2.148	3.103	5.7	21.0
11 27	3 36.21	+11 49.5	1.717	2.688	4.6	19.2	11 27	3 34.70	+36 24.4	2.150	3.106	5.4	21.0
12 7	3 28.12	+11 32.9	1.757	2.689	8.4	19.5	12 7	3 24.37	+35 50.6	2.181	3.108	7.3	21.1
12 17	3 21.76	+11 27.8	1.823	2.691	12.0	19.7	12 17	3 15.92	+35 6.9	2.239	3.109	10.0	21.3
12 27	3 17.76	+11 35.2	1.911	2.692	15.1	19.9	12 27	3 10.03	+34 19.8	2.321	3.111	12.5	21.4
47554	2000 <i>AN</i> ₁₃₀		11 20.0 253°48	0°0/20.1	18		99835	2002 <i>NQ</i> ₂₀		11 20.0 231°03	3°2/22.0	18	
10 18	4 5.46	+21 29.3	2.412	3.250	11.1	19.7	10 18	4 10.06	+31 7.4	1.994	2.810	13.9	19.6
10 28	4 0.14	+21 6.0	2.327	3.241	8.1	19.5	10 28	4 3.95	+30 46.5	1.908	2.803	10.7	19.4
11 7	3 53.10	+20 36.1	2.267	3.232	4.8	19.2	11 7	3 55.52	+30 9.4	1.846	2.795	7.2	19.2
11 17	3 44.98	+20 0.8	2.236	3.223	1.1	19.0	11 17	3 45.61	+29 15.9	1.810	2.787	3.8	19.0
11 27	3 36.61	+19 22.7	2.234	3.214	2.6	19.1	11 27	3 35.40	+28 8.5	1.804	2.779	3.8	19.0
12 7	3 28.86	+18 45.4	2.263	3.204	6.2	19.3	12 7	3 26.12	+26 52.8	1.827	2.771	7.2	19.1
12 17	3 22.48	+18 12.2	2.319	3.195	9.5	19.5	12 17	3 18.76	+25 35.9	1.877	2.762	10.9	19.4
12 27	3 18.03	+17 46.4	2.400	3.185	12.3	19.7	12 27	3 14.00	+24 24.7	1.952	2.753	14.1	19.6
331262	2011 <i>CC</i> ₄₅		11 20.0 188°73	5°0/16.7	18		12533	Edmond		11 20.0 161°68	2°1/18.9	18	
10 18	4 3.98	+5 18.9	2.399	3.243	10.9	20.5	10 18	4 9.31	+14 28.2	2.248	3.089	11.7	19.2
10 28	3 58.89	+4 24.4	2.333	3.243	8.3	20.4	10 28	4 2.87	+14 1.5	2.180	3.095	8.5	19.0
11 7	3 52.29	+3 34.1	2.294	3.242	6.0	20.2	11 7	3 54.66	+13 33.2	2.137	3.101	5.1	18.8
11 17	3 44.78	+2 52.2	2.282	3.242	5.0	20.2	11 17	3 45.38	+13 5.6	2.123	3.107	2.2	18.6
11 27	3 37.11	+2 22.4	2.299	3.241	6.1	20.2	11 27	3 35.95	+12 41.7	2.139	3.111	3.8	18.8
12 7	3 30.07	+2 7.1	2.344	3.241	8.5	20.4	12 7	3 27.27	+12 24.1	2.186	3.115	7.2	19.0
12 17	3 24.30	+2 7.3	2.415	3.240	11.0	20.6	12 17	3 20.12	+12 15.2	2.260	3.119	10.4	19.2
12 27	3 20.29	+2 22.4	2.508	3.239	13.2	20.7	12 27	3 15.03	+12 16.3	2.357	3.121	13.1	19.4
486016	2012 <i>RQ</i> ₄₂		11 20.0 26°53	0°2/20.1	17		217714	1999 <i>UG</i> ₅₂		11 20.0 31°70	6°0/18.3	18	
10 18	4 6.67	+22 20.3	1.019	1.898	19.4	19.8	10 18	4 8.88	+8 58.9	1.045	1.926	18.9	19.5
10 28	4 2.33	+21 50.8	0.981	1.915	14.2	19.6	10 28	4 3.78	+8 19.7	1.006	1.939	14.1	19.3
11 7	3 54.77	+21 8.7	0.962	1.933	8.3	19.3	11 7	3 55.61	+7 46.9	0.987	1.952	9.2	19.0
11 17	3 45.37	+20 17.6	0.965	1.953	2.0	19.0	11 17	3 45.62	+7 26.6	0.990	1.967	6.1	18.9
11 27	3 35.96	+19 24.3	0.993	1.974	4.3	19.2	11 27	3 35.56	+7 23.9	1.016	1.983	8.0	19.1
12 7	3 28.26	+18 36.6	1.044	1.996	10.0	19.6	12 7	3 27.07	+7 41.2	1.066	2.000	12.4	19.4
12 17	3 23.42	+18 0.7	1.117	2.020	15.0	20.0	12 17	3 21.34	+8 17.7	1.138	2.017	16.8	19.7
12 27	3 22.03	+17 40.5	1.210	2.044	19.0	20.3	12 27	3 19.00	+9 10.7	1.227	2.035	20.4	20.0
115408	2003 <i>SU</i> ₂₉₄		11 20.0 322°12	7°1/14.4	18		444619	2006 <i>VW</i> ₈₂		11 20.0 76°97	0°6/20.4	18	
10 18	4 4.88	+12 6.0	1.414	2.286	15.4	18.3	10 18	4 7.96	+22 59.9	1.890	2.732	13.5	21.1
10 28	4 0.61	+9 9.7	1.334	2.263	11.7	18.0	10 28	4 2.25	+22 38.9	1.824	2.740	9.9	20.9
11 7	3 53.76	+6 0.9	1.280	2.241	8.2	17.8	11 7	3 54.43	+22 8.8	1.782	2.747	5.9	20.7
11 17	3 45.19	+2 53.1	1.253	2.219	7.3	17.7	11 17	3 45.34	+21 31.2	1.768	2.755	1.6	20.4
11 27	3 36.19	+0 2.4	1.255	2.198	10.0	17.8	11 27	3 36.09	+20 49.2	1.783	2.763	3.0	20.6
12 7	3 28.12	-2 17.8	1.283	2.178	14.1	17.9	12 7	3 27.78	+20 7.5	1.826	2.770	7.1	20.8
12 17	3 22.12	-4 0.0	1.334	2.159	18.2	18.1	12 17	3 21.29	+19 30.6	1.896	2.778	10.9	21.1
12 27	3 18.97	-5 2.9	1.402	2.141	21.6	18.3	12 27	3 17.24	+19 2.2	1.988	2.786	14.1	21.3
198652	2005 <i>BS</i> ₉		11 20.0 331°09	5°8/24.2	17		77511	2001 <i>HR</i> ₄₈		11 20.0 54°90	9°7/15.7	18	
10 18	4 8.80	+39 20.1	2.316	3.094	13.4	20.1	10 18	4 6.49	-8 44.1	2.028	2.843	13.7	18.2
10 28	4 2.92	+39 30.7	2.235	3.092	11.0	19.9	10 28	4 0.74	-9 37.3	1.997	2.863	11.7	18.1
11 7	3 54.85	+39 23.4	2.176	3.091	8.4	19.7	11 7	3 53.35	-10 13.0	1.987	2.883	10.2	18.0
11 17	3 45.41	+38 56.2	2.143	3.089	6.4	19.6	11 17	3 45.06	-10 26.2	2.003	2.904	9.7	18.1
11 27	3 35.72	+38 9.4	2.138	3.088	5.9	19.6	11 27	3 36.79	-10 14.2	2.044	2.924	10.4	18.1
12 7	3 26.91	+37 7.1	2.160	3.087	7.4	19.7	12 7	3 29.42	-9 37.5	2.109	2.945	12.0	18.3
12 17	3 19.44	+35 55.2	2.211	3.086	9.9	19.8	12 17	3 23.63	-8 39.1	2.197	2.966	13.8	18.5
12 27	3 15.45	+34 40.9	2.285	3.085	12.4	20.0	12 27	3 19.88	-7 23.1	2.305	2.987	15.5	18.6
143249	2002 <i>YP</i> ₂₉		11 20.0 309°13	1°7/20.7	18		367243	2007 <i>LP</i> ₂		11 20.0 166°63	3°8/17.3		

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11 20.0

11 20.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
407962	2012 <i>DO</i> ₂₂	11 20.0 224°83 1°4/20.8 17					515358	2013 <i>CY</i> ₁₄₅	11 20.1 107°62 3°8/22.1 18				
10 18	4 8.78	+23 47.3	2.404	3.232	11.4	21.2	10 18	4 11.58	+31 4.1	2.101	2.912	13.4	21.3
10 28	4 2.66	+24 2.1	2.320	3.226	8.5	21.0	10 28	4 4.90	+31 24.6	2.035	2.925	10.4	21.1
11 7	3 54.66	+24 10.4	2.260	3.220	5.2	20.7	11 7	3 56.02	+31 32.0	1.993	2.938	7.1	21.0
11 17	3 45.43	+24 11.6	2.229	3.214	2.0	20.5	11 17	3 45.79	+31 24.7	1.978	2.950	4.3	20.8
11 27	3 35.86	+24 6.6	2.229	3.207	2.7	20.6	11 27	3 35.36	+31 3.5	1.992	2.962	4.3	20.8
12 7	3 26.91	+23 57.4	2.258	3.201	6.1	20.8	12 7	3 25.88	+30 31.9	2.035	2.974	6.9	21.0
12 17	3 19.42	+23 47.1	2.316	3.194	9.4	21.0	12 17	3 18.29	+29 55.0	2.105	2.986	10.1	21.2
12 27	3 14.02	+23 39.0	2.398	3.187	12.2	21.1	12 27	3 13.23	+29 18.4	2.200	2.997	12.9	21.5
164864	1999 <i>TH</i> ₂₇₂	11 20.1 31°22 7°5/23.2 18					52635	1997 <i>WC</i> ₃₂	11 20.1 352°36 1°2/20.7 18				
10 18	4 12.23	+35 8.9	1.284	2.113	19.3	19.5	10 18	4 7.30	+24 44.2	1.755	2.599	14.2	18.6
10 28	4 6.57	+36 4.3	1.235	2.128	15.5	19.3	10 28	4 2.06	+24 23.4	1.682	2.598	10.6	18.4
11 7	3 57.44	+36 37.3	1.206	2.143	11.4	19.2	11 7	3 54.49	+23 51.2	1.633	2.596	6.4	18.1
11 17	3 46.11	+36 42.9	1.198	2.160	8.2	19.0	11 17	3 45.45	+23 8.7	1.609	2.595	2.1	17.8
11 27	3 34.49	+36 20.8	1.216	2.178	7.7	19.1	11 27	3 36.14	+22 19.3	1.614	2.594	3.2	17.9
12 7	3 24.52	+35 37.1	1.257	2.196	10.3	19.3	12 7	3 27.77	+21 28.4	1.647	2.594	7.6	18.2
12 17	3 17.60	+34 41.5	1.323	2.215	13.9	19.5	12 17	3 21.35	+20 41.4	1.706	2.593	11.6	18.4
12 27	3 14.46	+33 44.2	1.408	2.235	17.3	19.8	12 27	3 17.54	+20 3.4	1.787	2.593	15.0	18.7
511909	2015 <i>HQ</i> ₇₃	11 20.1 128°39 1°4/19.3 18					112564	2002 <i>PZ</i> ₄₉	11 20.1 66°59 0°2/20.2 18				
10 18	4 11.22	+17 31.4	1.836	2.681	13.7	22.2	10 18	4 13.62	+21 5.4	1.683	2.525	14.9	19.1
10 28	4 4.54	+17 2.2	1.776	2.694	9.9	22.0	10 28	4 6.22	+20 59.1	1.646	2.562	10.8	18.9
11 7	3 55.73	+16 28.4	1.740	2.707	5.8	21.8	11 7	3 56.63	+20 45.6	1.633	2.598	6.3	18.7
11 17	3 45.66	+15 52.5	1.733	2.719	1.8	21.6	11 17	3 45.90	+20 25.9	1.647	2.634	1.5	18.5
11 27	3 35.48	+15 18.2	1.755	2.731	3.7	21.8	11 27	3 35.31	+20 3.2	1.691	2.670	3.2	18.7
12 7	3 26.33	+14 49.6	1.805	2.742	7.9	22.0	12 7	3 26.05	+19 41.2	1.762	2.706	7.5	19.0
12 17	3 19.09	+14 29.9	1.883	2.753	11.6	22.3	12 17	3 18.99	+19 23.8	1.861	2.740	11.2	19.3
12 27	3 14.35	+14 21.3	1.982	2.763	14.7	22.5	12 27	3 14.61	+19 13.9	1.982	2.775	14.3	19.6
29031	1132 <i>T</i> ₋₁	11 20.1 259°37 0°1/20.0 18					17238	2000 <i>EP</i> ₅₆	11 20.1 316°23 1°2/19.4 18				
10 18	4 10.38	+21 12.7	1.662	2.510	14.7	19.2	10 18	4 5.16	+17 21.9	2.033	2.884	12.3	18.5
10 28	4 4.54	+20 52.3	1.577	2.496	10.9	19.0	10 28	4 0.24	+17 0.9	1.951	2.873	9.0	18.2
11 7	3 56.07	+20 22.8	1.515	2.482	6.5	18.7	11 7	3 53.36	+16 35.7	1.894	2.861	5.3	18.0
11 17	3 45.82	+19 45.7	1.480	2.467	1.5	18.3	11 17	3 45.19	+16 8.6	1.863	2.850	1.6	17.7
11 27	3 35.06	+19 4.4	1.473	2.452	3.6	18.4	11 27	3 36.70	+15 42.5	1.862	2.839	3.4	17.8
12 7	3 25.17	+18 23.8	1.493	2.437	8.5	18.7	12 7	3 28.88	+15 20.7	1.889	2.828	7.4	18.1
12 17	3 17.33	+17 49.6	1.540	2.422	13.0	18.9	12 17	3 22.60	+15 6.4	1.942	2.818	11.0	18.3
12 27	3 12.37	+17 26.0	1.608	2.406	16.8	19.1	12 27	3 18.51	+15 1.8	2.019	2.808	14.2	18.5
519251	2010 <i>XX</i> ₉₂	11 20.1 338°76 2°8/18.8 18					113430	2002 <i>SD</i> ₃₉	11 20.1 342°34 5°6/16.0 18				
10 18	4 6.90	+11 55.7	1.975	2.826	12.6	21.4	10 18	4 3.21	+4 20.3	2.288	3.135	11.3	19.3
10 28	4 1.45	+11 46.6	1.902	2.823	9.3	21.2	10 28	3 58.44	+3 10.2	2.225	3.133	8.7	19.1
11 7	3 54.01	+11 38.8	1.854	2.819	5.7	20.9	11 7	3 52.13	+2 4.9	2.187	3.132	6.5	19.0
11 17	3 45.31	+11 34.6	1.834	2.816	2.9	20.8	11 17	3 44.87	+1 9.2	2.176	3.131	5.7	18.9
11 27	3 36.32	+11 36.3	1.842	2.813	4.4	20.9	11 27	3 37.46	+0 27.8	2.194	3.130	6.9	19.0
12 7	3 28.06	+11 45.9	1.879	2.810	8.0	21.1	12 7	3 30.68	+0 3.4	2.240	3.129	9.2	19.1
12 17	3 21.41	+12 4.6	1.941	2.808	11.5	21.3	12 17	3 25.21	+0 3.0	2.310	3.128	11.7	19.3
12 27	3 16.99	+12 33.0	2.027	2.806	14.5	21.5	12 27	3 21.54	+0 7.8	2.402	3.127	13.9	19.5
327610	2006 <i>EK</i> ₅₄	11 20.1 279°37 3°2/21.8 17					456180	2006 <i>HR</i> ₄₈	11 20.1 224°21 0°8/19.5 18				
10 18	4 8.45	+29 35.4	2.266	3.083	12.4	21.0	10 18	4 5.25	+17 53.1	2.749	3.586	9.9	21.9
10 28	4 2.61	+29 55.3	2.185	3.080	9.6	20.8	10 28	3 59.83	+17 32.6	2.664	3.578	7.2	21.7
11 7	3 54.71	+30 4.4	2.128	3.077	6.4	20.6	11 7	3 52.92	+17 8.5	2.605	3.570	4.2	21.5
11 17	3 45.48	+30 1.2	2.099	3.074	3.7	20.4	11 17	3 45.07	+16 42.3	2.575	3.562	1.2	21.3
11 27	3 35.91	+29 46.3	2.098	3.071	3.8	20.4	11 27	3 37.00	+16 16.3	2.576	3.553	2.6	21.4
12 7	3 27.06	+29 22.4	2.127	3.067	6.6	20.6	12 7	3 29.46	+15 53.0	2.607	3.543	5.8	21.6
12 17	3 19.84	+28 53.7	2.183	3.064	9.7	20.8	12 17	3 23.08	+15 34.7	2.667	3.534	8.7	21.8
12 27	3 14.90	+28 25.0	2.263	3.061	12.5	20.9	12 27	3 18.39	+15 23.6	2.751	3.524	11.2	21.9
260501	2005 <i>EZ</i> ₂₂	11 20.1 206°51 3°9/18.2 18					308675	2006 <i>DQ</i> ₁₂	11 20.1 134°91 5°8/22.9 18				
10 18	4 10.76	+12 31.4	1.657	2.511	14.5	21.1	10 18	4 15.48	+35 12.4	1.951	2.745	14.9	20.3
10 28	4 4.55	+11 38.0	1.586	2.507	10.7	20.9	10 28	4 8.15	+35 56.8	1.881	2.754	11.9	20.1
11 7	3 55.93	+10 42.9	1.539	2.503	6.7	20.6	11 7	3 58.12	+36 24.7	1.834	2.763	8.8	19.9
11 17	3 45.78	+9 50.9	1.518	2.498	3.9	20.5	11 17	3 46.34	+36 32.6	1.814	2.771	6.3	19.8
11 27	3 35.30	+9 7.4	1.526	2.492	5.8	20.6	11 27	3 34.19	+36 19.6	1.821	2.779	6.1	19.8
12 7	3 25.79	+8 37.2	1.561	2.486	9.9	20.8	12 7	3 23.11	+35 49.2	1.857	2.787	8.2	19.9
12 17	3 18.27	+8 23.3	1.621	2.480	13.8	21.0	12 17	3 14.27	+35 7.6	1.920	2.794	11.2	20.1
12 27	3 13.45	+8 26.5	1.702	2.473	17.1	21.2	12 27	3 8.44	+34 22.3	2.006	2.800	14.0	20.3
196954	2003 <i>UA</i> ₅₂	11 20.1 297°96 3°8/22.5 17					218175	2002 <i>SU</i> ₇₁	11 20.1 54°82 0°4/19.9 18				
10 18	4 7.29	+32 46.4	2.256	3.064	12.7	19.8	10 18	4 10.61	+21 34.3	1.249	2.113	17.6	19.7
10 28	4 1.79	+32 46.5	2.171	3.058	10.0	19.7	10 28	4 4.84	+20 54.6	1.202	2.128	12.9	19.5
11 7	3 54.23	+32 32.3	2.111	3.052	7.0	19.5	11 7	3 56.18	+20 4.0	1.176	2.145	7.5	19.2
11 17	3 45.37	+32 3.0	2.076	3.046	4.4	19.3	11 17	3 45.85	+19 6.1	1.174	2.162	1.7	18.9
11 27	3 36.22	+31 19.7	2.071	3.041	4.2	19.3	11 27	3 35.47	+18 7.0	1.199	2.179	4.1	19.2
12 7	3 27.85	+30 26.5	2.095	3.035	6.7	19.4	12 7	3 26.62	+17 14.0	1.249	2.196	9.4	19.5
12 17	3 21.14	+29 28.5	2.146	3.029	9.7	19.6	12 17	3 20.39	+16 33.1	1.323	2.213	14.1	19.8
12 27	3 16.75	+28 31.8	2.221	3.024	12.6	19.8	12 27	3 17.39	+16 7.8	1.418	2.231	17.9	20.1
444567	2006 <i>TX</i> ₃₀	11 20.1 49°18 2°7/21.1 18					393593	2003 <i>UJ</i> ₂₂	11 20.1 7°09 2°8/20.1 18				
10 18	4 13.12	+25 31.2	1.515	2.356	16.2	20.5	10 18	4 16.18	+17 7.1	1.024	1.895	20.0	19.1
10 28	4 6.37	+26 3.6	1.471	2.383	12.1	20.4	10 28	4 10.14					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
386690	2009 WQ ₉		11 20.1	23°67'	4.3/18.9	18 R	156088	2001 SJ ₁₉₃		11 20.1	8°73'	1°9/20.7	18
10 18	4 7.06	+12 19.9	0.897	1.790	20.1	19.9	10 18	4 7.43	+23 34.6	1.090	1.963	18.9	20.0
10 28	4 2.80	+12 0.9	0.865	1.805	14.8	19.7	10 28	4 3.23	+23 48.8	1.034	1.964	14.1	19.7
11 7	3 55.19	+11 44.8	0.851	1.822	9.0	19.5	11 7	3 55.63	+23 50.9	0.998	1.966	8.6	19.5
11 17	3 45.62	+11 36.3	0.858	1.842	4.4	19.3	11 17	3 45.80	+23 40.6	0.984	1.970	3.0	19.1
11 27	3 36.03	+11 39.7	0.887	1.862	6.7	19.5	11 27	3 35.56	+23 20.5	0.995	1.976	4.3	19.3
12 7	3 28.20	+11 57.7	0.939	1.885	11.9	19.9	12 7	3 26.76	+22 56.1	1.029	1.982	9.9	19.6
12 17	3 23.37	+12 30.3	1.012	1.909	16.7	20.2	12 17	3 20.85	+22 34.2	1.085	1.990	15.1	19.9
12 27	3 22.12	+13 16.3	1.102	1.934	20.7	20.6	12 27	3 18.62	+22 20.4	1.161	2.000	19.4	20.2
152118	2004 RZ ₂₅₃		11 20.1	71°43'	2°6/18.9	18	303561	2005 GY ₅₅		11 20.1	170°86'	4°9/16.9	18
10 18	4 8.48	+11 52.6	2.031	2.879	12.4	19.6	10 18	4 6.77	+ 8 42.8	1.996	2.846	12.5	21.3
10 28	4 2.44	+11 48.3	1.971	2.889	9.1	19.4	10 28	4 1.22	+ 7 27.2	1.932	2.848	9.4	21.1
11 7	3 54.51	+11 45.5	1.935	2.899	5.6	19.2	11 7	3 53.82	+ 6 13.1	1.893	2.849	6.4	21.0
11 17	3 45.46	+11 46.0	1.927	2.910	2.8	19.0	11 17	3 45.31	+ 5 5.9	1.882	2.851	4.9	20.9
11 27	3 36.24	+11 51.9	1.949	2.920	4.2	19.2	11 27	3 36.64	+ 4 11.1	1.900	2.852	6.5	21.0
12 7	3 27.84	+12 4.8	2.000	2.931	7.6	19.4	12 7	3 28.77	+ 3 32.8	1.946	2.852	9.4	21.1
12 17	3 21.07	+12 25.6	2.077	2.941	10.9	19.6	12 17	3 22.48	+ 3 12.9	2.017	2.853	12.4	21.3
12 27	3 16.49	+12 54.7	2.177	2.951	13.7	19.8	12 27	3 18.33	+ 3 11.3	2.110	2.853	15.1	21.5
294910	2008 DN ₂₈		11 20.1	332°69'	3°4/18.9	18	487665	2015 PV ₄₃		11 20.1	45°87'	1°7/19.5	17
10 18	4 8.09	+14 29.7	1.158	2.035	17.7	20.7	10 18	4 10.01	+15 20.1	1.544	2.402	15.1	21.0
10 28	4 3.52	+13 56.8	1.092	2.026	13.1	20.4	10 28	4 4.02	+15 20.8	1.492	2.416	11.0	20.8
11 7	3 55.76	+13 21.0	1.047	2.017	8.0	20.1	11 7	3 55.61	+15 20.1	1.462	2.430	6.5	20.5
11 17	3 45.84	+12 46.9	1.024	2.009	3.6	19.8	11 17	3 45.75	+15 19.7	1.459	2.445	2.1	20.3
11 27	3 35.36	+12 20.4	1.026	2.001	6.1	19.9	11 27	3 35.73	+15 21.9	1.483	2.461	4.1	20.5
12 7	3 26.09	+12 6.7	1.053	1.995	11.4	20.2	12 7	3 26.86	+15 29.1	1.535	2.476	8.6	20.8
12 17	3 19.42	+12 9.5	1.101	1.989	16.5	20.5	12 17	3 20.12	+15 43.3	1.612	2.492	12.6	21.1
12 27	3 16.25	+12 29.8	1.168	1.984	20.8	20.7	12 27	3 16.16	+16 5.8	1.710	2.508	15.9	21.3
477409	2009 VQ ₈₄		11 20.1	300°35'	0°0/20.1	18	509455	2007 JC ₇		11 20.1	174°08'	0°3/20.3	18
10 18	4 10.01	+20 10.8	1.454	2.311	15.9	21.5	10 18	4 11.56	+21 28.6	2.048	2.882	12.9	22.5
10 28	4 4.63	+20 11.4	1.374	2.298	11.8	21.2	10 28	4 4.85	+21 21.9	1.974	2.885	9.5	22.3
11 7	3 56.33	+20 5.1	1.316	2.284	7.0	20.9	11 7	3 56.02	+21 8.4	1.924	2.888	5.6	22.1
11 17	3 45.98	+19 52.5	1.283	2.270	1.7	20.5	11 17	3 45.86	+20 48.6	1.903	2.890	1.4	21.8
11 27	3 35.00	+19 36.0	1.277	2.257	3.8	20.7	11 27	3 35.43	+20 24.8	1.911	2.891	2.9	21.9
12 7	3 24.96	+19 19.8	1.297	2.244	9.2	20.9	12 7	3 25.86	+20 0.3	1.950	2.891	7.0	22.2
12 17	3 17.20	+19 8.3	1.342	2.231	14.0	21.2	12 17	3 18.05	+19 38.8	2.015	2.891	10.7	22.4
12 27	3 12.63	+19 5.8	1.407	2.218	18.1	21.4	12 27	3 12.65	+19 23.9	2.105	2.890	13.8	22.6
400093	2006 SF ₄₀₆		11 20.1	78°48'	1°4/19.4	18	381826	2009 VX ₈₆		11 20.1	246°85'	1°3/19.4	18
10 18	4 8.04	+17 12.5	1.848	2.699	13.3	21.5	10 18	4 9.83	+18 52.7	1.803	2.650	13.8	21.7
10 28	4 2.31	+16 47.2	1.787	2.708	9.7	21.3	10 28	4 3.93	+18 12.1	1.717	2.636	10.2	21.4
11 7	3 54.51	+16 18.0	1.749	2.716	5.7	21.0	11 7	3 55.65	+17 23.8	1.655	2.622	6.0	21.2
11 17	3 45.47	+15 47.2	1.739	2.725	1.8	20.8	11 17	3 45.80	+16 30.5	1.620	2.607	1.7	20.8
11 27	3 36.27	+15 18.3	1.757	2.734	3.7	21.0	11 27	3 35.52	+15 36.7	1.615	2.592	3.9	21.0
12 7	3 27.99	+14 55.0	1.804	2.742	7.7	21.2	12 7	3 26.06	+14 47.8	1.638	2.576	8.4	21.2
12 17	3 21.50	+14 40.2	1.877	2.751	11.4	21.5	12 17	3 18.45	+14 8.8	1.687	2.559	12.6	21.4
12 27	3 17.40	+14 36.1	1.972	2.759	14.5	21.7	12 27	3 13.45	+13 43.2	1.758	2.543	16.1	21.6
97763	2000 JO ₂₁		11 20.1	285°54'	2°4/21.4	18	267156	2000 GB ₁₀₄		11 20.1	187°12'	0°4/19.9	18
10 18	4 7.37	+27 31.0	2.331	3.154	11.9	19.8	10 18	4 11.70	+19 35.5	1.929	2.769	13.3	21.0
10 28	4 1.84	+27 42.7	2.238	3.139	9.1	19.5	10 28	4 5.07	+19 23.9	1.853	2.768	9.8	20.8
11 7	3 54.32	+27 44.9	2.170	3.124	5.9	19.3	11 7	3 56.21	+19 6.5	1.802	2.768	5.7	20.5
11 17	3 45.46	+27 36.9	2.129	3.109	3.0	19.1	11 17	3 45.92	+18 44.4	1.779	2.766	1.4	20.2
11 27	3 36.19	+27 19.3	2.118	3.094	3.2	19.1	11 27	3 35.33	+18 20.1	1.786	2.764	3.2	20.4
12 7	3 27.52	+26 54.8	2.136	3.079	6.4	19.3	12 7	3 25.60	+17 57.4	1.821	2.762	7.5	20.6
12 17	3 20.35	+26 27.3	2.181	3.063	9.7	19.5	12 17	3 17.71	+17 39.7	1.884	2.759	11.4	20.9
12 27	3 15.35	+26 1.0	2.251	3.048	12.6	19.6	12 27	3 12.33	+17 30.2	1.970	2.755	14.6	21.1
353060	2009 DB ₆₄		11 20.1	199°54'	3°8/21.9	18	195897	2002 RZ ₃₆		11 20.1	2°45'	2°5/21.5	17
10 18	4 12.58	+30 36.7	2.211	3.019	13.0	21.1	10 18	4 5.98	+27 42.4	1.945	2.779	13.5	19.2
10 28	4 5.76	+31 9.3	2.128	3.016	10.1	20.9	10 28	4 0.99	+27 39.7	1.872	2.779	10.2	19.0
11 7	3 56.66	+31 30.5	2.070	3.013	7.0	20.7	11 7	3 53.85	+27 25.1	1.822	2.779	6.6	18.8
11 17	3 46.02	+31 37.9	2.038	3.010	4.3	20.5	11 17	3 45.35	+26 58.6	1.798	2.779	3.1	18.6
11 27	3 34.96	+31 31.2	2.037	3.006	4.3	20.5	11 27	3 36.59	+26 22.2	1.802	2.780	3.4	18.6
12 7	3 24.66	+31 12.8	2.065	3.002	7.0	20.7	12 7	3 28.68	+25 40.1	1.835	2.781	6.9	18.9
12 17	3 16.15	+30 47.2	2.120	2.997	10.2	20.9	12 17	3 22.55	+24 57.3	1.894	2.783	10.5	19.1
12 27	3 10.15	+30 19.8	2.200	2.992	13.0	21.1	12 27	3 18.84	+24 19.1	1.977	2.786	13.7	19.3
309566	2008 AV ₃₂		11 20.1	338°85'	3°0/21.3	17	231737	1999 NA ₅₄		11 20.1	90°88'	6°5/16.8	18
10 18	4 6.47	+26 31.0	1.393	2.248	16.6	20.9	10 18	4 10.50	+ 3 57.5	1.839	2.682	13.7	20.6
10 28	4 2.24	+26 47.7	1.316	2.234	12.7	20.6	10 28	4 3.74	+ 2 47.2	1.805	2.711	10.6	20.4
11 7	3 55.01	+26 51.6	1.259	2.221	8.2	20.3	11 7	3 55.15	+ 1 45.0	1.795	2.740	7.7	20.3
11 17	3 45.68	+26 41.1	1.226	2.208	3.8	20.0	11 17	3 45.61	+ 0 56.5	1.812	2.768	6.5	20.3
11 27	3 35.72	+26 17.4	1.218	2.197	4.4	20.0	11 27	3 36.17	+ 0 26.1	1.858	2.795	7.7	20.4
12 7	3 26.76	+25 45.1	1.236	2.187	9.0	20.3	12 7	3 27.81	+ 0 15.8	1.931	2.822	10.3	20.6
12 17	3 20.18	+25 10.9	1.278	2.178	13.7	20.5	12 17	3 21.27	+ 0 25.0	2.028	2.849	13.0	20.9
12 27	3 16.91	+24 41.4	1.340	2.170	17.8	20.7	12 27	3 17.03	+ 0 51.7	2.146	2.874	15.3	21.1
410939	2009 SG ₂₈₁		11 20.1	316°29'	5°0/16.9	18	266897	2009 WK ₁₀₄		11 20.1	281°37'	5°9/17.5	18
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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
263991	2009 <i>MZ</i> _{h m}		11 20.1	40°25	3°8/17.7	18	4521	Akimov		11 20.1	154°53	1°1/20.7	18
10 18	4 7.44	+15 50.5	1.464	2.329	15.4	18.1	10 18	4 8.96	+22 54.4	2.528	3.355	11.0	17.4
10 28	4 1.85	+13 59.3	1.432	2.360	11.1	17.9	10 28	4 2.70	+23 13.2	2.452	3.358	8.1	17.2
11 7	3 54.14	+12 5.2	1.425	2.392	6.7	17.8	11 7	3 54.70	+23 26.3	2.402	3.362	4.9	17.1
11 17	3 45.37	+10 16.4	1.444	2.425	3.8	17.7	11 17	3 45.59	+23 33.4	2.380	3.365	1.7	16.8
11 27	3 36.82	+ 8 41.6	1.492	2.458	6.0	17.9	11 27	3 36.23	+23 35.2	2.389	3.368	2.5	16.9
12 7	3 29.59	+ 7 27.1	1.567	2.492	9.8	18.2	12 7	3 27.51	+23 33.4	2.429	3.371	5.8	17.1
12 17	3 24.47	+ 6 35.8	1.666	2.526	13.4	18.5	12 17	3 20.18	+23 30.5	2.497	3.373	8.8	17.3
12 27	3 21.88	+ 6 7.7	1.786	2.560	16.3	18.8	12 27	3 14.81	+23 29.3	2.590	3.376	11.5	17.5
143008	2002 <i>VQ</i> ₁₀₃		11 20.1	3°70	2°6/21.2	18	139380	2001 <i>MT</i> ₂₃		11 20.1	130°43	5°7/24.1	18
10 18	4 9.55	+26 20.7	1.696	2.535	14.9	19.5	10 18	4 13.37	+39 3.5	2.316	3.088	13.5	20.1
10 28	4 3.91	+26 37.4	1.624	2.534	11.3	19.3	10 28	4 6.22	+39 19.0	2.246	3.101	11.0	19.9
11 7	3 55.72	+26 43.0	1.575	2.534	7.2	19.0	11 7	3 56.83	+39 16.6	2.199	3.113	8.4	19.8
11 17	3 45.85	+26 36.3	1.553	2.535	3.3	18.8	11 17	3 46.09	+38 54.1	2.179	3.125	6.3	19.7
11 27	3 35.60	+26 18.6	1.558	2.535	3.8	18.8	11 27	3 35.20	+38 12.1	2.187	3.137	5.8	19.6
12 7	3 26.33	+25 53.7	1.590	2.536	7.8	19.1	12 7	3 25.33	+37 14.6	2.223	3.148	7.4	19.8
12 17	3 19.16	+25 26.8	1.648	2.538	11.8	19.3	12 17	3 17.44	+36 7.8	2.288	3.158	9.8	19.9
12 27	3 14.83	+25 3.2	1.729	2.539	15.3	19.6	12 27	3 12.13	+34 58.8	2.377	3.169	12.2	20.1
229670	2006 <i>TP</i> ₅₈		11 20.1	280°98	2°6/18.5	17	171647	2000 <i>FU</i> ₁₄		11 20.1	289°00	5°8/22.1	17
10 18	4 11.23	+23 8.3	1.107	1.975	19.1	20.3	10 18	4 13.84	+32 57.1	1.858	2.666	15.0	20.3
10 28	4 5.91	+20 50.4	1.036	1.966	14.1	19.9	10 28	4 7.51	+33 57.7	1.760	2.644	12.1	20.1
11 7	3 57.16	+18 6.2	0.987	1.958	8.2	19.6	11 7	3 58.16	+34 46.1	1.685	2.621	8.9	19.8
11 17	3 46.21	+15 5.6	0.963	1.949	2.8	19.3	11 17	3 46.54	+35 17.1	1.636	2.599	6.3	19.6
11 27	3 34.90	+12 5.4	0.966	1.940	6.4	19.5	11 27	3 33.97	+35 27.8	1.615	2.576	6.3	19.6
12 7	3 25.13	+ 9 24.1	0.995	1.932	12.6	19.8	12 7	3 22.04	+35 19.4	1.621	2.553	9.0	19.7
12 17	3 18.28	+ 7 15.2	1.047	1.923	18.1	20.1	12 17	3 12.22	+34 57.0	1.654	2.531	12.5	19.9
12 27	3 15.14	+ 5 44.7	1.117	1.915	22.6	20.3	12 27	3 5.58	+34 28.1	1.708	2.508	15.9	20.0
472416	2015 <i>BD</i> ₂₆₁		11 20.1	123°32	3°3/18.6	16	104287	2000 <i>EM</i> ₁₅₇		11 20.1	203°46	6°2/15.9	18
10 18	4 13.05	+13 3.9	1.662	2.511	14.7	21.6	10 18	4 5.10	- 2 55.6	2.844	3.662	10.1	20.3
10 28	4 6.01	+12 24.8	1.609	2.528	10.7	21.4	10 28	3 59.58	- 3 32.2	2.777	3.658	8.3	20.2
11 7	3 56.68	+11 45.2	1.579	2.544	6.5	21.2	11 7	3 52.75	- 3 59.8	2.736	3.654	6.7	20.1
11 17	3 46.03	+11 8.8	1.577	2.559	3.4	21.1	11 17	3 45.11	- 4 15.0	2.722	3.650	6.2	20.1
11 27	3 35.32	+10 39.9	1.604	2.574	5.2	21.2	11 27	3 37.33	- 4 15.1	2.737	3.646	7.0	20.1
12 7	3 25.76	+10 22.1	1.659	2.587	9.1	21.5	12 7	3 30.05	- 3 59.3	2.780	3.641	8.6	20.2
12 17	3 18.29	+10 17.6	1.740	2.601	12.9	21.7	12 17	3 23.86	- 3 28.0	2.849	3.636	10.5	20.3
12 27	3 13.51	+10 26.9	1.842	2.613	16.0	22.0	12 27	3 19.22	- 2 42.8	2.940	3.630	12.3	20.5
208801	2002 <i>QU</i> ₉₀		11 20.1	274°79	5°8/22.4	17	287980	2003 <i>US</i> ₁₆₁		11 20.1	77°12	1°3/20.6	18
10 18	4 13.34	+33 51.7	1.901	2.706	14.9	20.3	10 18	4 15.18	+23 21.3	1.311	2.162	17.7	20.7
10 28	4 6.96	+34 41.8	1.810	2.690	12.0	20.1	10 28	4 8.17	+23 22.0	1.265	2.184	13.1	20.5
11 7	3 57.71	+35 18.0	1.741	2.675	8.8	19.8	11 7	3 58.16	+23 11.4	1.240	2.205	7.8	20.2
11 17	3 46.39	+35 35.7	1.698	2.659	6.3	19.7	11 17	3 46.41	+22 49.8	1.240	2.226	2.4	20.0
11 27	3 34.31	+35 33.0	1.682	2.643	6.1	19.6	11 27	3 34.63	+22 20.5	1.267	2.247	3.8	20.1
12 7	3 23.00	+35 12.0	1.695	2.627	8.7	19.7	12 7	3 24.44	+21 49.2	1.321	2.268	8.9	20.5
12 17	3 13.80	+34 38.3	1.733	2.611	12.0	19.9	12 17	3 17.01	+21 21.9	1.399	2.289	13.5	20.8
12 27	3 7.67	+33 59.5	1.794	2.594	15.2	20.1	12 27	3 12.96	+21 3.3	1.499	2.309	17.2	21.1
104730	2000 <i>HQ</i>		11 20.1	331°81	0°9/19.8	18	143824	2003 <i>WX</i> ₁₄₅		11 20.1	21°26	1°1/19.7	18
10 18	4 8.70	+18 25.2	1.275	2.143	17.0	19.2	10 18	4 10.61	+18 16.9	1.248	2.114	17.4	20.1
10 28	4 3.89	+18 20.3	1.204	2.133	12.6	18.9	10 28	4 5.14	+18 3.3	1.188	2.117	12.8	19.9
11 7	3 55.99	+18 9.8	1.154	2.124	7.4	18.6	11 7	3 56.61	+17 43.6	1.149	2.119	7.5	19.6
11 17	3 45.96	+17 55.2	1.127	2.115	1.9	18.2	11 17	3 46.10	+17 20.1	1.135	2.122	2.0	19.2
11 27	3 35.35	+17 39.8	1.127	2.107	4.3	18.4	11 27	3 35.23	+16 56.8	1.146	2.125	4.4	19.4
12 7	3 25.84	+17 28.1	1.152	2.099	9.9	18.7	12 7	3 25.68	+16 38.6	1.183	2.129	9.9	19.7
12 17	3 18.81	+17 24.3	1.200	2.093	15.0	18.9	12 17	3 18.72	+16 30.0	1.243	2.133	14.8	20.0
12 27	3 15.17	+17 31.7	1.267	2.087	19.2	19.2	12 27	3 15.14	+16 33.7	1.323	2.138	18.8	20.3
458541	2011 <i>DV</i> ₅₁		11 20.1	344°07	4°1/22.5	17	509383	2007 <i>CH</i> ₉		11 20.1	211°14	1°1/20.6	18
10 18	4 7.35	+32 35.4	2.024	2.839	13.7	21.0	10 18	4 11.80	+23 53.0	1.942	2.774	13.5	22.1
10 28	4 2.07	+32 42.3	1.945	2.835	10.8	20.8	10 28	4 5.28	+23 42.8	1.859	2.768	10.1	21.9
11 7	3 54.55	+32 34.2	1.888	2.831	7.5	20.6	11 7	3 56.43	+23 23.0	1.800	2.762	6.1	21.7
11 17	3 45.57	+32 9.8	1.858	2.828	4.7	20.4	11 17	3 46.04	+22 53.8	1.769	2.755	2.0	21.4
11 27	3 36.27	+31 30.3	1.855	2.825	4.5	20.4	11 27	3 35.29	+22 17.7	1.767	2.747	3.1	21.4
12 7	3 27.83	+30 39.8	1.881	2.822	7.2	20.6	12 7	3 25.38	+21 38.9	1.795	2.738	7.3	21.7
12 17	3 21.23	+29 44.1	1.933	2.820	10.5	20.7	12 17	3 17.34	+21 2.2	1.850	2.729	11.3	21.9
12 27	3 17.15	+28 49.6	2.009	2.818	13.5	20.9	12 27	3 11.88	+20 32.4	1.928	2.719	14.6	22.1
112928	2002 <i>QZ</i> ₆₆		11 20.1	246°59	6°3/23.1	18	109131	2001 <i>QV</i> ₅₁		11 20.1	143°45	2°4/19.0	18
10 18	4 13.32	+36 40.9	1.985	2.777	14.8	19.7	10 18	4 12.07	+14 4.2	1.834	2.679	13.7	20.2
10 28	4 6.80	+37 21.0	1.899	2.768	12.1	19.5	10 28	4 5.26	+13 41.9	1.771	2.689	10.0	20.0
11 7	3 57.51	+37 44.5	1.835	2.759	9.1	19.3	11 7	3 56.27	+13 18.4	1.734	2.699	6.0	19.8
11 17	3 46.32	+37 47.2	1.797	2.750	6.8	19.2	11 17	3 45.98	+12 56.3	1.724	2.707	2.6	19.6
11 27	3 34.55	+37 27.9	1.786	2.741	6.5	19.1	11 27	3 35.51	+12 38.8	1.743	2.716	4.4	19.8
12 7	3 23.67	+36 49.6	1.803	2.731	8.5	19.2	12 7	3 26.02	+12 28.9	1.791	2.723	8.3	20.0
12 17	3 14.93	+35 58.6	1.846	2.721	11.5	19.4	12 17	3 18.43	+12 28.8	1.866	2.730	12.0	20.3
12 27	3 9.18	+35 2.8	1.912	2.711	14.5	19.6	12 27	3 13.34	+12 39.6	1.963	2.737	15.0	20.5
220016	2002 <i>PG</i> ₁₇₀		11 20.1	312°16	0°9/19.4	18	218251	2003 <i>AE</i> ₁					

EPHEMERIDES

11 20.1

11 20.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
57968	2002 <i>LQ</i> ₅₂		11 20.1	46°17'	8°1/16.7	18	241282	2007 <i>UD</i> ₄		11 20.1	99°12'	1°5/19.4	18
10 18	4 6.85	- 2 49.9	1.920	2.754	13.6	18.1	10 18	4 9.48	+16 50.4	1.801	2.651	13.7	20.5
10 28	4 1.22	- 3 30.0	1.877	2.768	11.0	18.0	10 28	4 3.47	+16 31.4	1.739	2.659	10.0	20.3
11 7	3 53.81	- 3 56.6	1.857	2.783	8.9	17.9	11 7	3 55.28	+16 9.0	1.701	2.668	5.8	20.0
11 17	3 45.38	- 4 4.9	1.863	2.799	8.1	17.9	11 17	3 45.79	+15 45.1	1.689	2.676	1.8	19.8
11 27	3 36.90	- 3 52.2	1.896	2.814	9.0	17.9	11 27	3 36.10	+15 23.1	1.707	2.684	3.7	20.0
12 7	3 29.31	- 3 18.4	1.954	2.830	11.0	18.1	12 7	3 27.37	+15 6.4	1.753	2.692	7.9	20.2
12 17	3 23.36	- 2 25.4	2.037	2.846	13.4	18.3	12 17	3 20.51	+14 57.7	1.825	2.700	11.7	20.5
12 27	3 19.54	- 1 16.9	2.140	2.862	15.5	18.5	12 27	3 16.12	+14 59.1	1.920	2.707	14.8	20.7
315233	2007 <i>RG</i> ₂₄₇		11 20.1	46°52'	7°3/17.9	18	42209	2001 <i>DF</i> ₄₈		11 20.1	154°11'	4°1/22.7	18
10 18	4 12.05	+ 7 48.3	0.940	1.822	20.4	19.6	10 18	4 9.99	+33 28.1	2.450	3.247	12.2	19.2
10 28	4 6.06	+ 6 47.1	0.916	1.848	15.2	19.4	10 28	4 3.68	+33 48.8	2.373	3.251	9.6	19.1
11 7	3 56.91	+ 5 55.4	0.911	1.874	10.2	19.2	11 7	3 55.38	+33 56.7	2.320	3.254	6.9	18.9
11 17	3 46.10	+ 5 21.0	0.927	1.901	7.3	19.2	11 17	3 45.82	+33 50.0	2.294	3.258	4.6	18.8
11 27	3 35.53	+ 5 9.7	0.967	1.929	9.2	19.4	11 27	3 35.99	+33 29.1	2.297	3.261	4.4	18.8
12 7	3 26.88	+ 5 23.3	1.030	1.958	13.4	19.7	12 7	3 26.91	+32 56.9	2.330	3.264	6.5	18.9
12 17	3 21.24	+ 5 59.4	1.113	1.987	17.5	20.0	12 17	3 19.46	+32 17.9	2.390	3.267	9.2	19.1
12 27	3 19.11	+ 6 54.0	1.214	2.016	21.0	20.4	12 27	3 14.26	+31 37.2	2.476	3.269	11.7	19.3
108467	2001 <i>KQ</i> ₅₆		11 20.1	169°48'	5°1/17.5	18	304190	2006 <i>QY</i> ₆₅		11 20.1	112°13'	0°1/20.1	18
10 18	4 8.51	+ 5 22.5	2.157	2.997	12.1	20.1	10 18	4 10.87	+20 24.3	2.099	2.935	12.5	21.3
10 28	4 2.40	+ 4 44.4	2.092	3.000	9.2	19.9	10 28	4 4.19	+20 20.7	2.039	2.952	9.2	21.1
11 7	3 54.52	+ 4 11.5	2.053	3.003	6.5	19.7	11 7	3 55.59	+20 11.4	2.004	2.969	5.4	20.9
11 17	3 45.57	+ 3 47.8	2.041	3.005	5.1	19.7	11 17	3 45.85	+19 57.3	1.998	2.985	1.3	20.7
11 27	3 36.44	+ 3 36.6	2.059	3.007	6.3	19.7	11 27	3 36.00	+19 40.6	2.022	3.001	2.8	20.8
12 7	3 28.06	+ 3 39.7	2.105	3.008	8.9	19.9	12 7	3 27.05	+19 24.1	2.075	3.016	6.7	21.1
12 17	3 21.17	+ 3 57.7	2.177	3.009	11.8	20.1	12 17	3 19.81	+19 11.0	2.156	3.031	10.1	21.3
12 27	3 16.34	+ 4 29.5	2.271	3.010	14.2	20.3	12 27	3 14.85	+19 3.9	2.261	3.046	13.0	21.6
42667	1998 <i>HK</i> ₂₀		11 20.1	103°92'	1°7/19.3	18	312362	2008 <i>DV</i> ₅₉		11 20.1	236°68'	3°2/18.1	18
10 18	4 12.89	+17 51.8	1.563	2.413	15.4	19.3	10 18	4 6.40	+12 40.4	2.163	3.011	11.8	21.0
10 28	4 6.02	+17 10.6	1.512	2.433	11.2	19.1	10 28	4 1.00	+11 47.8	2.084	3.003	8.7	20.8
11 7	3 56.74	+16 23.9	1.485	2.452	6.5	18.9	11 7	3 53.79	+10 53.5	2.032	2.995	5.4	20.6
11 17	3 46.09	+15 35.0	1.484	2.470	2.1	18.7	11 17	3 45.44	+10 1.4	2.007	2.986	3.2	20.4
11 27	3 35.42	+14 49.0	1.512	2.488	4.2	18.9	11 27	3 36.84	+ 9 15.7	2.012	2.977	4.8	20.5
12 7	3 26.03	+14 10.9	1.568	2.506	8.7	19.2	12 7	3 28.92	+ 8 40.4	2.046	2.968	8.0	20.7
12 17	3 18.88	+13 44.7	1.649	2.523	12.8	19.4	12 17	3 22.44	+ 8 18.1	2.106	2.959	11.3	20.9
12 27	3 14.55	+13 32.3	1.753	2.539	16.1	19.7	12 27	3 18.01	+ 8 10.0	2.189	2.949	14.1	21.1
410973	2009 <i>TW</i> ₃₉		11 20.1	39°35'	0°2/20.3	18	226491	2003 <i>SR</i> ₂₇₄		11 20.1	91°83'	0°9/20.6	18
10 18	4 6.24	+23 49.2	1.760	2.608	14.0	20.1	10 18	4 8.06	+23 8.1	2.326	3.158	11.6	20.5
10 28	4 1.06	+22 56.9	1.705	2.624	10.3	19.9	10 28	4 2.08	+23 9.7	2.262	3.171	8.6	20.4
11 7	3 53.81	+21 53.5	1.674	2.640	6.0	19.7	11 7	3 54.35	+23 4.4	2.223	3.185	5.2	20.2
11 17	3 45.39	+20 42.5	1.670	2.657	1.5	19.4	11 17	3 45.56	+22 52.6	2.212	3.198	1.7	20.0
11 27	3 36.95	+19 29.0	1.694	2.674	3.1	19.6	11 27	3 36.64	+22 36.0	2.232	3.211	2.5	20.1
12 7	3 29.56	+18 19.4	1.747	2.692	7.3	19.9	12 7	3 28.48	+22 17.3	2.281	3.224	6.0	20.3
12 17	3 24.06	+17 19.2	1.826	2.710	11.1	20.2	12 17	3 21.83	+21 59.6	2.358	3.237	9.2	20.5
12 27	3 20.98	+16 32.1	1.928	2.729	14.3	20.4	12 27	3 17.24	+21 46.0	2.459	3.250	11.9	20.7
142576	2002 <i>TZ</i> ₈₅		11 20.1	137°30'	1°3/20.8	18	473664	2015 <i>XS</i> ₃₄₇		11 20.1	241°64'	1°2/19.4	17
10 18	4 13.47	+24 37.2	1.753	2.587	14.7	20.1	10 18	4 5.98	+17 3.5	2.409	3.251	10.9	22.4
10 28	4 6.50	+24 24.9	1.688	2.598	10.9	19.9	10 28	4 0.59	+16 42.7	2.327	3.244	8.0	22.2
11 7	3 57.09	+24 1.5	1.648	2.609	6.6	19.7	11 7	3 53.52	+16 18.7	2.271	3.237	4.7	21.9
11 17	3 46.21	+23 27.7	1.634	2.619	2.2	19.4	11 17	3 45.38	+15 53.1	2.243	3.230	1.5	21.7
11 27	3 35.15	+22 46.5	1.649	2.629	3.2	19.5	11 27	3 36.99	+15 28.5	2.246	3.222	3.1	21.8
12 7	3 25.23	+22 2.8	1.694	2.638	7.6	19.8	12 7	3 29.20	+15 7.7	2.278	3.214	6.5	22.0
12 17	3 17.46	+21 22.2	1.764	2.646	11.6	20.1	12 17	3 22.73	+14 53.2	2.338	3.207	9.7	22.2
12 27	3 12.47	+20 49.5	1.858	2.654	15.0	20.3	12 27	3 18.16	+14 47.0	2.421	3.199	12.4	22.4
219039	1995 <i>ST</i> ₁₉		11 20.1	339°12'	2°8/20.9	18	74125	1998 <i>QD</i> ₅₉		11 20.1	94°25'	1°3/20.7	18
10 18	4 8.86	+24 47.1	1.160	2.025	18.5	20.0	10 18	4 10.38	+24 1.1	1.814	2.653	14.1	20.3
10 28	4 4.48	+25 12.8	1.090	2.014	14.1	19.7	10 28	4 4.21	+23 57.0	1.750	2.663	10.5	20.1
11 7	3 56.59	+25 26.7	1.039	2.005	8.9	19.4	11 7	3 55.76	+23 43.3	1.710	2.672	6.3	19.9
11 17	3 46.20	+25 26.6	1.011	1.996	3.7	19.1	11 17	3 45.92	+23 20.6	1.697	2.682	2.1	19.6
11 27	3 35.06	+25 13.5	1.008	1.988	4.7	19.1	11 27	3 35.88	+22 51.2	1.712	2.692	3.1	19.7
12 7	3 25.14	+24 51.9	1.028	1.981	10.1	19.4	12 7	3 26.85	+22 19.3	1.756	2.701	7.3	20.0
12 17	3 18.07	+24 28.9	1.071	1.975	15.4	19.7	12 17	3 19.80	+21 49.6	1.826	2.711	11.1	20.3
12 27	3 14.84	+24 11.5	1.133	1.970	19.9	19.9	12 27	3 15.35	+21 26.2	1.920	2.720	14.4	20.5
439762	2015 <i>FR</i> ₃₃₈		11 20.1	222°74'	5°8/16.9	18	367241	2007 <i>JC</i> ₂₆		11 20.1	141°65'	2°8/18.7	18
10 18	4 9.41	+ 7 18.4	1.787	2.636	13.8	22.0	10 18	4 7.03	+10 43.4	2.429	3.271	10.9	21.7
10 28	4 3.48	+ 6 6.2	1.714	2.629	10.5	21.7	10 28	4 1.23	+10 31.8	2.361	3.275	8.0	21.5
11 7	3 55.35	+ 4 56.4	1.666	2.620	7.4	21.5	11 7	3 53.83	+10 21.9	2.318	3.279	5.0	21.3
11 17	3 45.82	+ 3 55.0	1.645	2.611	5.8	21.4	11 17	3 45.45	+10 15.8	2.304	3.283	2.8	21.2
11 27	3 35.96	+ 3 8.1	1.652	2.602	7.4	21.5	11 27	3 36.90	+10 15.5	2.320	3.287	4.1	21.3
12 7	3 26.94	+ 2 40.1	1.687	2.592	10.7	21.7	12 7	3 28.99	+10 22.6	2.366	3.291	7.0	21.5
12 17	3 19.70	+ 2 32.9	1.745	2.581	14.1	21.9	12 17	3 22.40	+10 38.0	2.439	3.294	9.9	21.7
12 27	3 14.91	+ 2 45.8	1.825	2.570	17.0	22.1	12 27	3 17.66	+11 2.1	2.536	3.297	12.4	21.8
494084	2016 <i>CU</i> ₂		11 20.1	320°35'	2°1/18.9	17	457885	2009 <					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
31448	1999 CO_8		11 20.1 207°34	1.7/19.5	18	R	409312	2004 TS_{156}		11 20.1 151°84	3.4/21.8	18	
10 18	4 12.84	+16 53.5	1.501	2.355	15.7	18.6	10 18	4 10.64	+29 34.2	2.277	3.090	12.5	21.4
10 28	4 6.47	+16 35.7	1.430	2.352	11.6	18.3	10 28	4 4.29	+30 5.5	2.200	3.092	9.6	21.2
11 7	3 57.33	+16 13.5	1.382	2.349	6.8	18.1	11 7	3 55.84	+30 26.4	2.147	3.094	6.5	21.0
11 17	3 46.35	+15 49.1	1.359	2.346	2.1	17.8	11 17	3 46.02	+30 35.0	2.122	3.095	3.9	20.8
11 27	3 34.96	+15 26.2	1.365	2.342	4.4	17.9	11 27	3 35.85	+30 31.4	2.126	3.097	3.9	20.9
12 7	3 24.63	+15 9.1	1.397	2.338	9.3	18.2	12 7	3 26.42	+30 17.8	2.160	3.099	6.6	21.0
12 17	3 16.58	+15 1.4	1.455	2.333	13.9	18.4	12 17	3 18.66	+29 58.1	2.221	3.100	9.7	21.2
12 27	3 11.59	+15 5.8	1.534	2.328	17.6	18.7	12 27	3 13.23	+29 37.0	2.307	3.101	12.4	21.4
140829	2001 UQ_{172}		11 20.1 172°27	0°5/20.4	18		398056	2009 HA_{20}		11 20.1 218°53	0°0/20.1	18	
10 18	4 9.03	+21 29.6	2.010	2.849	12.9	20.5	10 18	4 10.18	+19 55.3	2.275	3.109	11.8	21.3
10 28	4 3.14	+21 30.8	1.936	2.850	9.5	20.3	10 28	4 3.84	+19 58.3	2.190	3.102	8.7	21.1
11 7	3 55.14	+21 25.7	1.886	2.850	5.6	20.1	11 7	3 55.54	+19 56.7	2.130	3.094	5.1	20.8
11 17	3 45.80	+21 14.5	1.864	2.850	1.5	19.8	11 17	3 45.94	+19 50.8	2.098	3.085	1.3	20.5
11 27	3 36.18	+20 59.3	1.871	2.851	2.9	19.9	11 27	3 36.00	+19 42.2	2.097	3.077	2.7	20.6
12 7	3 27.35	+20 42.9	1.907	2.851	6.9	20.2	12 7	3 26.69	+19 33.2	2.126	3.067	6.6	20.9
12 17	3 20.23	+20 28.8	1.970	2.851	10.6	20.4	12 17	3 18.90	+19 26.5	2.183	3.057	10.0	21.1
12 27	3 15.47	+20 20.3	2.057	2.851	13.8	20.6	12 27	3 13.26	+19 24.8	2.265	3.047	13.0	21.3
247256	2001 RR_{85}		11 20.1 76°32	0°5/19.8	15		422237	2014 SZ_{20}		11 20.1 66°62	4°2/22.4	18	
10 18	4 10.05	+19 44.8	1.858	2.703	13.6	21.0	10 18	4 11.08	+32 6.0	2.088	2.896	13.6	20.8
10 28	4 3.67	+19 21.4	1.810	2.727	9.8	20.8	10 28	4 4.63	+32 34.4	2.028	2.915	10.6	20.6
11 7	3 55.29	+18 52.2	1.785	2.752	5.7	20.6	11 7	3 55.99	+32 49.2	1.992	2.933	7.4	20.5
11 17	3 45.80	+18 19.1	1.788	2.776	1.4	20.4	11 17	3 46.03	+32 48.5	1.983	2.951	4.7	20.3
11 27	3 36.30	+17 45.7	1.821	2.800	3.2	20.6	11 27	3 35.89	+32 32.9	2.003	2.970	4.6	20.4
12 7	3 27.87	+17 15.7	1.882	2.823	7.2	20.9	12 7	3 26.73	+32 5.8	2.051	2.988	7.0	20.6
12 17	3 21.32	+16 52.6	1.970	2.847	10.8	21.1	12 17	3 19.47	+31 32.1	2.126	3.007	10.0	20.8
12 27	3 17.17	+16 39.0	2.081	2.870	13.8	21.4	12 27	3 14.73	+30 57.5	2.225	3.025	12.7	21.0
222399	2001 FW_{12}		11 20.1 315°51	3°5/21.7	17		442917	2013 CU_{39}		11 20.1 345°92	0°1/20.1	18	
10 18	4 8.94	+29 3.6	2.036	2.859	13.4	20.2	10 18	4 8.55	+20 8.6	1.608	2.463	14.8	21.4
10 28	4 3.32	+29 31.3	1.952	2.851	10.3	20.0	10 28	4 3.23	+20 3.4	1.537	2.459	10.9	21.2
11 7	3 55.39	+29 48.0	1.892	2.842	7.0	19.8	11 7	3 55.40	+19 51.5	1.489	2.456	6.4	20.9
11 17	3 45.90	+29 52.0	1.858	2.834	4.0	19.6	11 17	3 45.93	+19 34.2	1.466	2.454	1.6	20.6
11 27	3 35.94	+29 43.3	1.853	2.826	4.1	19.6	11 27	3 36.08	+19 14.2	1.472	2.452	3.5	20.7
12 7	3 26.72	+29 24.5	1.876	2.818	7.2	19.7	12 7	3 27.19	+18 55.2	1.504	2.450	8.2	21.0
12 17	3 19.28	+28 59.9	1.926	2.810	10.6	19.9	12 17	3 20.34	+18 41.5	1.562	2.448	12.5	21.3
12 27	3 14.37	+28 35.0	1.999	2.803	13.7	20.1	12 27	3 16.28	+18 36.3	1.641	2.447	16.1	21.5
523334	2017 BO_{139}		11 20.1 120°76	4°2/17.4	18		324355	2006 QA_{61}		11 20.1 112°42	2°7/21.3	17	
10 18	4 4.76	+ 7 14.9	2.426	3.271	10.8	21.4	10 18	4 15.78	+27 13.6	1.570	2.401	16.3	21.2
10 28	3 59.54	+ 6 30.1	2.364	3.276	8.1	21.2	10 28	4 8.46	+27 18.6	1.512	2.418	12.3	21.0
11 7	3 52.83	+ 5 48.7	2.327	3.281	5.6	21.1	11 7	3 58.37	+27 9.8	1.477	2.434	7.8	20.7
11 17	3 45.23	+ 5 14.1	2.319	3.286	4.2	21.0	11 17	3 46.61	+26 46.3	1.468	2.450	3.5	20.5
11 27	3 37.51	+ 4 49.6	2.340	3.292	5.4	21.1	11 27	3 34.71	+26 10.5	1.488	2.466	3.9	20.6
12 7	3 30.42	+ 4 37.4	2.390	3.296	7.9	21.2	12 7	3 24.17	+25 27.9	1.535	2.480	8.2	20.9
12 17	3 24.60	+ 4 38.6	2.465	3.301	10.4	21.4	12 17	3 16.11	+24 45.2	1.608	2.495	12.3	21.2
12 27	3 20.54	+ 4 52.9	2.564	3.306	12.7	21.6	12 27	3 11.21	+24 8.4	1.704	2.508	15.7	21.4
483098	2015 MW_{85}		11 20.1 48°83	8°1/17.0	16		390634	2002 GX_{143}		11 20.1 238°02	4°0/17.7	18	
10 18	4 8.79	+ 0 44.6	1.561	2.411	15.4	21.3	10 18	4 8.07	+11 23.7	1.974	2.824	12.7	21.7
10 28	4 3.07	- 0 3.8	1.513	2.420	12.2	21.2	10 28	4 2.42	+10 20.0	1.894	2.812	9.4	21.5
11 7	3 55.10	- 0 39.9	1.487	2.429	9.4	21.0	11 7	3 54.74	+ 9 14.8	1.840	2.801	6.1	21.2
11 17	3 45.79	- 0 57.8	1.486	2.438	8.1	21.0	11 17	3 45.77	+ 8 12.8	1.813	2.789	4.0	21.1
11 27	3 36.35	- 0 53.5	1.511	2.447	9.3	21.1	11 27	3 36.47	+ 7 19.6	1.815	2.776	5.7	21.2
12 7	3 27.97	- 0 25.9	1.561	2.457	12.0	21.2	12 7	3 27.91	+ 6 39.5	1.845	2.763	9.1	21.3
12 17	3 21.58	+ 0 22.9	1.634	2.467	15.0	21.5	12 17	3 20.94	+ 6 15.6	1.902	2.750	12.5	21.5
12 27	3 17.78	+ 1 29.4	1.727	2.477	17.7	21.7	12 27	3 16.23	+ 6 8.8	1.980	2.736	15.5	21.7
57166	2001 QN_{18}		11 20.1 52°74	7°3/23.2	18		73430	2002 LX_{48}		11 20.1 93°20	3°7/22.7	18	
10 18	4 15.05	+35 46.6	1.430	2.245	18.4	19.1	10 18	4 8.21	+32 54.0	2.327	3.132	12.5	19.3
10 28	4 8.66	+36 39.2	1.370	2.254	14.8	18.9	10 28	4 2.40	+32 51.4	2.254	3.138	9.8	19.1
11 7	3 58.83	+37 10.8	1.330	2.263	11.1	18.7	11 7	3 54.65	+32 34.8	2.204	3.145	6.8	18.9
11 17	3 46.75	+37 16.0	1.314	2.273	8.0	18.5	11 17	3 45.73	+32 3.6	2.181	3.151	4.2	18.8
11 27	3 34.23	+36 54.0	1.323	2.282	7.6	18.5	11 27	3 36.64	+31 19.4	2.188	3.157	4.0	18.8
12 7	3 23.18	+36 9.7	1.357	2.292	10.1	18.7	12 7	3 28.38	+30 26.2	2.224	3.164	6.4	18.9
12 17	3 15.06	+35 12.5	1.416	2.302	13.6	18.9	12 17	3 21.77	+29 29.1	2.287	3.170	9.3	19.1
12 27	3 10.69	+34 12.6	1.495	2.312	16.9	19.2	12 27	3 17.39	+28 33.6	2.376	3.176	11.9	19.3
209721	2005 EP_{133}		11 20.1 341°03	7°9/22.4	18		400596	2009 BC_2		11 20.1 254°12	7°2/25.5	18	
10 18	4 12.88	+34 17.8	1.405	2.229	18.2	19.8	10 18	4 17.17	+45 21.8	2.492	3.222	13.8	21.2
10 28	4 7.50	+35 43.9	1.330	2.220	14.8	19.6	10 28	4 9.39	+45 23.2	2.380	3.197	11.8	21.0
11 7	3 58.48	+36 54.3	1.276	2.211	11.2	19.3	11 7	3 58.98	+45 2.7	2.289	3.171	9.6	20.8
11 17	3 46.75	+37 41.2	1.245	2.203	8.4	19.2	11 17	3 46.83	+44 16.2	2.223	3.144	7.8	20.7
11 27	3 34.05	+38 0.4	1.239	2.196	8.3	19.1	11 27	3 34.24	+43 2.6	2.186	3.116	7.2	20.6
12 7	3 22.42	+37 53.5	1.257	2.190	11.0	19.3	12 7	3 22.60	+41 25.9	2.178	3.088	8.3	20.6
12 17	3 13.63	+37 27.5	1.299	2.184	14.6	19.5	12 17	3 13.07	+39 33.4	2.199	3.059	10.6	20.7
12 27	3 8.81	+36 52.7	1.361	2.180	18.2	19.7	12 27	3 6.40	+37 34.8	2.246	3.029	13.1	20.8
2175	Andrea Doria		11 20.1 34°22	1°1/19.7	18		512386	2016 ND_{66}		11 20.1 91°31	0°1/20.2	18	
10 18	4 8.91	+											

EPHEMERIDES

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11 20.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
216683	2004 <i>GT</i> ₃		11 20.1 213°92	3°4/17.9	18		363304	2002 <i>NG</i> ₇		11 20.1 111°92	0°7/19.6	18	
10 18	4 6.47	+12 44.5	2.040	2.891	12.3	20.7	10 18	4 6.17	+19 38.1	2.701	3.535	10.1	21.4
10 28	4 1.12	+11 41.2	1.969	2.888	9.0	20.5	10 28	4 0.41	+18 53.0	2.640	3.553	7.3	21.2
11 7	3 53.92	+10 36.0	1.923	2.886	5.7	20.3	11 7	3 53.29	+18 3.0	2.606	3.571	4.2	21.0
11 17	3 45.58	+9 33.3	1.905	2.883	3.5	20.1	11 17	3 45.41	+17 10.3	2.601	3.588	1.1	20.8
11 27	3 37.04	+8 38.2	1.916	2.880	5.1	20.2	11 27	3 37.49	+16 18.2	2.628	3.605	2.6	21.0
12 7	3 29.24	+7 55.1	1.956	2.878	8.4	20.4	12 7	3 30.26	+15 30.0	2.686	3.622	5.7	21.2
12 17	3 23.00	+7 26.7	2.022	2.875	11.7	20.6	12 17	3 24.31	+14 48.8	2.772	3.638	8.4	21.4
12 27	3 18.87	+7 14.3	2.110	2.871	14.5	20.8	12 27	3 20.04	+14 16.7	2.884	3.654	10.8	21.6
460162	2014 <i>QY</i> ₂₁		11 20.1 27°86	8°7/25.6	17		355300	2007 <i>RK</i> ₂₀₁		11 20.1 29°78	1°3/19.6	13 C	
10 18	4 11.17	+43 13.3	1.758	2.533	17.1	20.8	10 18	4 7.42	+19 7.9	1.212	2.084	17.4	20.5
10 28	4 5.47	+43 51.4	1.698	2.545	14.4	20.7	10 28	4 2.63	+18 33.2	1.169	2.100	12.7	20.3
11 7	3 56.81	+44 5.1	1.658	2.557	11.6	20.5	11 7	3 55.05	+17 51.1	1.147	2.118	7.3	20.1
11 17	3 46.30	+43 50.3	1.641	2.570	9.4	20.4	11 17	3 45.86	+17 5.7	1.150	2.137	2.0	19.8
11 27	3 35.54	+43 6.7	1.648	2.584	8.7	20.4	11 27	3 36.62	+16 22.5	1.177	2.157	4.4	20.0
12 7	3 26.13	+41 59.6	1.682	2.599	9.9	20.5	12 7	3 28.81	+15 47.6	1.231	2.177	9.5	20.4
12 17	3 19.29	+40 37.5	1.740	2.614	12.1	20.7	12 17	3 23.49	+15 25.2	1.307	2.199	14.1	20.7
12 27	3 15.71	+39 10.5	1.821	2.630	14.7	20.9	12 27	3 21.26	+15 17.5	1.403	2.222	17.8	21.0
361256	2006 <i>SK</i> ₃₁₈		11 20.1 295°64	3°1/18.6	18		228296	2000 <i>DD</i> ₉₅		11 20.1 308°76	3°2/21.2	18	
10 18	4 7.00	+13 13.2	1.838	2.693	13.2	21.3	10 18	4 10.61	+26 19.9	1.333	2.184	17.4	20.2
10 28	4 1.78	+12 36.2	1.763	2.685	9.8	21.1	10 28	4 5.70	+26 43.8	1.248	2.164	13.4	19.9
11 7	3 54.44	+11 57.8	1.712	2.678	6.0	20.9	11 7	3 57.39	+26 55.4	1.183	2.145	8.7	19.6
11 17	3 45.73	+11 21.6	1.689	2.670	3.1	20.7	11 17	3 46.57	+26 52.0	1.143	2.125	4.1	19.3
11 27	3 36.71	+10 51.8	1.693	2.663	4.9	20.8	11 27	3 34.83	+26 33.6	1.127	2.106	4.7	19.3
12 7	3 28.46	+10 32.0	1.725	2.656	8.7	21.0	12 7	3 24.04	+26 4.6	1.138	2.087	9.7	19.5
12 17	3 21.91	+10 24.8	1.783	2.649	12.4	21.2	12 17	3 15.84	+25 31.9	1.171	2.069	14.8	19.8
12 27	3 17.73	+10 31.4	1.862	2.642	15.5	21.4	12 27	3 11.33	+25 3.3	1.225	2.052	19.3	20.0
159284	2006 <i>AT</i> ₃₂		11 20.1 158°66	2°5/18.8	18		241361	2007 <i>XO</i> ₁₅		11 20.1 73°68	6°0/18.1	18	
10 18	4 7.90	+10 29.3	2.751	3.586	9.9	20.2	10 18	4 12.54	+3 35.7	1.755	2.596	14.4	19.4
10 28	4 1.73	+10 25.8	2.680	3.591	7.3	20.1	10 28	4 5.40	+3 11.8	1.719	2.626	11.0	19.3
11 7	3 54.12	+10 24.2	2.636	3.596	4.6	19.9	11 7	3 56.29	+2 57.2	1.708	2.656	7.8	19.1
11 17	3 45.62	+10 26.0	2.621	3.601	2.6	19.8	11 17	3 46.13	+2 55.4	1.723	2.685	6.0	19.1
11 27	3 36.97	+10 32.6	2.638	3.605	3.7	19.8	11 27	3 36.07	+3 8.9	1.766	2.715	7.1	19.2
12 7	3 28.88	+10 45.4	2.685	3.609	6.3	20.0	12 7	3 27.16	+3 37.9	1.837	2.743	9.9	19.5
12 17	3 21.98	+11 4.9	2.761	3.612	9.0	20.2	12 17	3 20.18	+4 21.1	1.934	2.772	12.8	19.7
12 27	3 16.76	+11 31.6	2.861	3.615	11.3	20.4	12 27	3 15.65	+5 16.1	2.052	2.800	15.3	19.9
352281	2007 <i>TO</i> ₃₇₂		11 20.1 55°24	7°9/24.1	18		460335	2014 <i>RE</i> ₅		11 20.1 357°55	1°2/19.6	17	
10 18	4 15.42	+38 38.8	1.570	2.368	17.8	19.9	10 18	4 4.36	+18 2.1	1.551	2.416	14.7	20.8
10 28	4 8.67	+39 30.6	1.518	2.386	14.6	19.7	10 28	4 0.19	+17 42.5	1.484	2.412	10.8	20.5
11 7	3 58.72	+39 59.7	1.486	2.405	11.2	19.6	11 7	3 53.65	+17 17.8	1.439	2.409	6.3	20.3
11 17	3 46.77	+40 1.4	1.477	2.425	8.5	19.5	11 17	3 45.57	+16 50.5	1.420	2.407	1.8	20.0
11 27	3 34.57	+39 35.1	1.494	2.444	8.0	19.5	11 27	3 37.16	+16 24.2	1.427	2.406	3.9	20.1
12 7	3 23.89	+38 46.2	1.537	2.464	9.8	19.6	12 7	3 29.68	+16 3.2	1.461	2.406	8.5	20.4
12 17	3 16.02	+37 43.7	1.605	2.484	12.7	19.9	12 17	3 24.14	+15 51.2	1.519	2.407	12.7	20.7
12 27	3 11.69	+36 37.6	1.694	2.504	15.6	20.1	12 27	3 21.26	+15 50.5	1.598	2.410	16.3	20.9
149090	2002 <i>CL</i> ₁₃₂		11 20.1 279°09	0°5/20.4	17		147157	2002 <i>UO</i> ₂₀		11 20.1 68°62	1°1/19.7	18	
10 18	4 7.34	+22 15.5	2.082	2.922	12.5	20.8	10 18	4 12.46	+17 53.1	1.369	2.228	16.6	19.6
10 28	4 1.92	+22 3.3	2.001	2.915	9.2	20.5	10 28	4 6.20	+17 43.5	1.317	2.241	12.2	19.4
11 7	3 54.49	+21 43.5	1.944	2.908	5.5	20.3	11 7	3 57.14	+17 28.9	1.286	2.255	7.1	19.1
11 17	3 45.74	+21 17.1	1.914	2.901	1.5	20.0	11 17	3 46.40	+17 11.4	1.281	2.268	1.9	18.8
11 27	3 36.68	+20 46.4	1.914	2.894	2.8	20.1	11 27	3 35.50	+16 54.4	1.303	2.282	4.1	19.0
12 7	3 28.34	+20 15.1	1.942	2.887	6.8	20.4	12 7	3 25.92	+16 41.8	1.352	2.296	9.2	19.4
12 17	3 21.61	+19 47.1	1.998	2.879	10.5	20.6	12 17	3 18.81	+16 37.3	1.425	2.310	13.6	19.7
12 27	3 17.13	+19 25.9	2.077	2.872	13.6	20.8	12 27	3 14.83	+16 43.3	1.518	2.323	17.3	19.9
257919	2000 <i>WZ</i> ₁₂		11 20.1 336°97	4°6/19.7	16		488011	2015 <i>UF</i> ₁		11 20.1 43°59	1°0/20.6	18	
10 18	4 30.27	+16 13.6	0.852	1.715	23.8	19.6	10 18	4 9.98	+22 14.8	1.828	2.670	13.9	21.3
10 28	4 22.34	+19 25.9	0.784	1.708	18.1	19.3	10 28	4 4.05	+22 28.7	1.760	2.674	10.3	21.1
11 7	4 8.47	+22 59.5	0.736	1.702	11.4	18.9	11 7	3 55.81	+22 35.8	1.715	2.678	6.2	20.9
11 17	3 49.50	+26 36.6	0.712	1.696	5.2	18.5	11 17	3 46.10	+22 35.6	1.697	2.683	1.9	20.6
11 27	3 28.08	+29 53.7	0.716	1.691	7.7	18.7	11 27	3 36.08	+22 29.6	1.708	2.688	3.1	20.7
12 7	3 7.93	+32 34.2	0.745	1.687	14.6	19.0	12 7	3 26.96	+22 20.6	1.747	2.692	7.3	21.0
12 17	3 2.52	+34 36.7	0.796	1.684	21.0	19.4	12 17	3 19.75	+22 12.2	1.812	2.697	11.2	21.2
12 27	2 43.28	+36 11.8	0.863	1.682	26.1	19.7	12 27	3 15.12	+22 8.1	1.901	2.702	14.4	21.5
520493	2014 <i>KQ</i> ₁₁₂		11 20.1 235°23	2°3/21.7	18		179661	2002 <i>QU</i> ₂₃		11 20.2 29°76	2°2/20.9	18	
10 18	4 8.77	+28 59.2	2.174	2.994	12.7	20.9	10 18	4 10.72	+24 14.3	1.075	1.943	19.5	19.5
10 28	4 2.95	+28 34.9	2.088	2.987	9.7	20.7	10 28	4 5.64	+24 28.5	1.028	1.954	14.5	19.2
11 7	3 55.06	+27 57.1	2.025	2.979	6.3	20.5	11 7	3 57.11	+24 29.4	1.000	1.967	8.9	19.0
11 17	3 45.88	+27 6.3	1.990	2.971	3.0	20.3	11 17	3 46.43	+24 16.7	0.994	1.980	3.3	18.7
11 27	3 36.42	+26 5.0	1.985	2.963	3.2	20.3	11 27	3 35.51	+23 53.0	1.014	1.994	4.4	18.8
12 7	3 27.75	+24 58.1	2.009	2.954	6.6	20.5	12 7	3 26.24	+23 24.7	1.057	2.010	9.9	19.2
12 17	3 20.77	+23 51.5	2.062	2.945	10.1	20.7	12 17	3 19.98	+22 58.7	1.123	2.026	14.9	19.5
12 27	3 16.10	+22 50.8	2.139	2.936	13.2	20.9	12 27	3 17.46	+22 40.9	1.208	2.043	19.0	19.8
354384	2003 <i>SP</i> ₁₇₀		11 20.1 8°44	12°2/15.7	17		334296	2001 <i>UL</i>					

EPHEMERIDES

11 20.2

11 20.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
317279	2002 <i>EJ</i> ₁₃₇		11 20.2 315°18	3°8/22.1	17		72806	2001 <i>GA</i> ₅		11 20.2 42°94	0°1/20.1	18	
10 18	4 9.66	+30 28.6	2.043	2.860	13.5	20.8	10 18	4 14.15	+17 9.0	1.537	2.387	15.6	18.0
10 28	4 3.85	+30 52.0	1.963	2.857	10.5	20.6	10 28	4 7.39	+17 52.5	1.477	2.396	11.5	17.7
11 7	3 55.74	+31 3.0	1.907	2.853	7.2	20.4	11 7	3 57.89	+18 34.7	1.440	2.406	6.7	17.5
11 17	3 46.10	+30 59.8	1.877	2.850	4.3	20.2	11 17	3 46.65	+19 14.3	1.429	2.416	1.6	17.2
11 27	3 36.07	+30 42.7	1.875	2.847	4.3	20.2	11 27	3 35.05	+19 50.8	1.447	2.427	3.5	17.4
12 7	3 26.84	+30 14.8	1.902	2.844	7.2	20.4	12 7	3 24.56	+20 25.0	1.493	2.438	8.4	17.7
12 17	3 19.43	+29 41.0	1.956	2.841	10.5	20.6	12 17	3 16.37	+20 58.7	1.565	2.449	12.7	18.0
12 27	3 14.58	+29 6.9	2.034	2.838	13.5	20.8	12 27	3 11.21	+21 34.2	1.659	2.461	16.2	18.2
443729	2015 <i>LF</i> ₂₀		11 20.2 294°14	3°4/18.0	18		169906	2002 <i>RS</i> ₂₃₀		11 20.2 77°60	0°1/20.1	18	
10 18	4 7.30	+15 52.2	1.643	2.501	14.3	20.4	10 18	4 9.78	+20 5.8	1.774	2.621	14.0	20.0
10 28	4 2.16	+14 25.1	1.570	2.495	10.5	20.1	10 28	4 3.86	+19 58.3	1.709	2.628	10.3	19.8
11 7	3 54.73	+12 50.8	1.522	2.489	6.4	19.9	11 7	3 55.67	+19 44.7	1.668	2.635	6.0	19.6
11 17	3 45.84	+11 15.5	1.501	2.483	3.4	19.7	11 17	3 46.09	+19 26.2	1.654	2.642	1.4	19.3
11 27	3 36.70	+9 47.1	1.509	2.477	5.6	19.8	11 27	3 36.27	+19 5.2	1.669	2.649	3.2	19.4
12 7	3 28.49	+8 32.9	1.544	2.472	9.7	20.0	12 7	3 27.41	+18 45.6	1.712	2.656	7.6	19.7
12 17	3 22.20	+7 37.9	1.604	2.466	13.7	20.3	12 17	3 20.48	+18 30.8	1.781	2.663	11.5	20.0
12 27	3 18.48	+7 4.4	1.685	2.460	17.1	20.5	12 27	3 16.11	+18 24.0	1.873	2.670	14.8	20.2
172160	2002 <i>NF</i> ₃₂		11 20.2 105°82	1°0/19.5	18		223903	2004 <i>VU</i> ₄₄		11 20.2 274°88	1°4/19.5	17	
10 18	4 9.71	+20 24.9	1.981	2.822	13.0	20.0	10 18	4 7.93	+15 16.5	2.215	3.058	11.7	20.6
10 28	4 3.39	+19 26.7	1.924	2.840	9.4	19.8	10 28	4 2.21	+15 16.8	2.136	3.053	8.6	20.4
11 7	3 55.18	+18 20.9	1.891	2.857	5.4	19.6	11 7	3 54.63	+15 15.9	2.083	3.048	5.1	20.1
11 17	3 45.91	+17 11.1	1.888	2.875	1.5	19.4	11 17	3 45.84	+15 15.2	2.058	3.043	1.7	19.9
11 27	3 36.63	+16 2.2	1.914	2.892	3.3	19.5	11 27	3 36.75	+15 16.4	2.062	3.038	3.3	20.0
12 7	3 28.35	+14 59.5	1.971	2.908	7.2	19.8	12 7	3 28.29	+15 21.3	2.096	3.033	6.9	20.2
12 17	3 21.83	+14 7.5	2.054	2.924	10.8	20.1	12 17	3 21.30	+15 31.6	2.158	3.028	10.3	20.4
12 27	3 17.60	+13 29.0	2.161	2.940	13.7	20.3	12 27	3 16.38	+15 48.9	2.243	3.023	13.2	20.6
134803	2000 <i>ER</i> ₉₅		11 20.2 80°64	6°5/23.2	18		324224	2006 <i>BV</i> ₆₈		11 20.2 155°35	3°4/18.1	18	
10 18	4 14.78	+36 24.3	1.872	2.666	15.5	19.9	10 18	4 6.08	+8 52.6	2.616	3.456	10.2	21.2
10 28	4 7.92	+37 18.7	1.806	2.676	12.5	19.8	10 28	4 0.47	+8 24.5	2.549	3.461	7.6	21.1
11 7	3 58.25	+37 55.9	1.762	2.685	9.5	19.6	11 7	3 53.43	+7 58.7	2.509	3.466	5.0	20.9
11 17	3 46.73	+38 11.5	1.743	2.695	7.1	19.5	11 17	3 45.53	+7 37.9	2.497	3.470	3.4	20.8
11 27	3 34.79	+38 4.3	1.751	2.704	6.7	19.5	11 27	3 37.48	+7 24.6	2.515	3.475	4.5	20.9
12 7	3 23.94	+37 37.5	1.787	2.713	8.7	19.6	12 7	3 30.03	+7 20.5	2.563	3.478	7.0	21.1
12 17	3 15.42	+36 57.5	1.848	2.723	11.6	19.8	12 17	3 23.78	+7 26.8	2.639	3.482	9.6	21.2
12 27	3 9.99	+36 12.4	1.933	2.732	14.3	20.0	12 27	3 19.23	+7 43.5	2.738	3.485	11.9	21.4
483988	2006 <i>CA</i> ₇		11 20.2 219°84	6°2/24.7	18		389443	2010 <i>CV</i> ₁₄₄		11 20.2 144°48	3°8/17.8	18	
10 18	4 11.30	+42 8.6	2.669	3.420	12.4	21.5	10 18	4 8.70	+12 44.1	1.897	2.747	13.1	20.8
10 28	4 4.81	+42 28.6	2.580	3.414	10.4	21.4	10 28	4 2.80	+11 31.5	1.834	2.754	9.6	20.6
11 7	3 56.19	+42 31.7	2.512	3.407	8.3	21.2	11 7	3 54.93	+10 17.0	1.797	2.760	6.1	20.5
11 17	3 46.20	+42 15.0	2.471	3.401	6.7	21.1	11 17	3 45.91	+9 5.9	1.788	2.766	3.8	20.3
11 27	3 35.89	+41 38.4	2.458	3.393	6.2	21.1	11 27	3 36.75	+8 3.9	1.808	2.772	5.5	20.4
12 7	3 26.36	+40 44.5	2.473	3.386	7.3	21.1	12 7	3 28.49	+7 15.6	1.857	2.777	8.9	20.7
12 17	3 18.53	+39 38.6	2.516	3.378	9.3	21.3	12 17	3 21.95	+6 44.0	1.931	2.782	12.3	20.9
12 27	3 13.08	+38 27.2	2.584	3.370	11.5	21.4	12 27	3 17.70	+6 30.0	2.028	2.786	15.1	21.1
228671	2002 <i>JX</i> ₅₉		11 20.2 98°49	1°0/19.4	18		287930	2003 <i>UG</i> ₃₆		11 20.2 142°63	1°9/21.4	18	
10 18	4 6.51	+20 7.4	2.321	3.160	11.4	19.7	10 18	4 10.18	+28 28.8	1.895	2.721	14.1	20.2
10 28	4 0.89	+19 5.0	2.257	3.173	8.3	19.5	10 28	4 4.09	+27 47.4	1.822	2.725	10.6	20.0
11 7	3 53.67	+17 55.9	2.220	3.186	4.8	19.4	11 7	3 55.77	+26 50.8	1.772	2.729	6.7	19.7
11 17	3 45.55	+16 43.4	2.211	3.198	1.3	19.1	11 17	3 46.11	+25 40.3	1.750	2.733	2.8	19.5
11 27	3 37.39	+15 32.0	2.234	3.211	3.0	19.3	11 27	3 36.31	+24 20.3	1.758	2.737	3.2	19.5
12 7	3 30.01	+14 26.4	2.287	3.223	6.5	19.5	12 7	3 27.53	+22 57.4	1.794	2.740	7.1	19.8
12 17	3 24.09	+13 30.6	2.368	3.235	9.6	19.8	12 17	3 20.71	+21 38.6	1.859	2.743	10.9	20.0
12 27	3 20.09	+12 47.1	2.473	3.247	12.3	20.0	12 27	3 16.45	+20 29.9	1.947	2.746	14.2	20.2
394169	2006 <i>QW</i> ₁₀₄		11 20.2 83°34	1°0/20.8	18		77733	2001 <i>OS</i> ₇₃		11 20.2 182°24	3°6/22.3	18	R
10 18	4 10.05	+25 49.0	1.840	2.674	14.1	20.7	10 18	4 10.52	+31 38.9	2.190	2.999	13.1	19.3
10 28	4 3.83	+25 1.8	1.783	2.693	10.4	20.5	10 28	4 4.29	+31 41.9	2.111	2.999	10.2	19.1
11 7	3 55.50	+24 2.1	1.749	2.711	6.3	20.3	11 7	3 55.91	+31 31.1	2.055	2.999	7.0	18.9
11 17	3 46.00	+22 52.4	1.744	2.730	2.0	20.0	11 17	3 46.17	+31 5.5	2.027	2.999	4.1	18.7
11 27	3 36.50	+21 37.5	1.768	2.748	3.0	20.1	11 27	3 36.15	+30 26.4	2.027	2.999	4.0	18.7
12 7	3 28.12	+20 23.8	1.821	2.766	7.1	20.4	12 7	3 26.98	+29 37.6	2.057	2.998	6.7	18.9
12 17	3 21.70	+19 17.4	1.901	2.783	10.9	20.7	12 17	3 19.57	+28 44.7	2.115	2.997	9.9	19.1
12 27	3 17.77	+18 22.7	2.005	2.801	14.0	20.9	12 27	3 14.59	+27 53.4	2.197	2.995	12.8	19.2
474749	2005 <i>PN</i> ₉		11 20.2 94°58	1°2/19.6	16		369451	2010 <i>CV</i> ₂₄₉		11 20.2 14°22	4°2/22.7	17	R
10 18	4 13.18	+18 2.6	1.554	2.405	15.4	21.7	10 18	4 7.47	+33 2.7	2.099	2.910	13.4	20.4
10 28	4 6.36	+17 39.7	1.504	2.424	11.2	21.5	10 28	4 2.16	+33 10.9	2.025	2.912	10.6	20.2
11 7	3 57.09	+17 11.7	1.476	2.443	6.5	21.3	11 7	3 54.69	+33 4.4	1.974	2.915	7.4	20.0
11 17	3 46.40	+16 40.9	1.475	2.462	1.8	21.0	11 17	3 45.88	+32 41.9	1.949	2.918	4.8	19.9
11 27	3 35.65	+16 11.3	1.503	2.481	3.9	21.2	11 27	3 36.80	+32 4.7	1.953	2.921	4.5	19.9
12 7	3 26.17	+15 47.1	1.558	2.499	8.5	21.5	12 7	3 28.59	+31 16.7	1.984	2.925	7.0	20.0
12 17	3 18.93	+15 31.9	1.639	2.516	12.6	21.8	12 17	3 22.16	+30 23.5	2.043	2.929	10.0	20.2
12 27	3 14.54	+15 28.1	1.741	2.534	15.9	22.1	12 27	3 18.16	+29 31.0	2.125	2.933	12.9	20.4
267287	2001 <i>ST</i> ₇₇		11 20.2 156°76	0°8/19.8	18		201251	2002 <i>RZ</i> ₁₁₂					

EPHEMERIDES

11 20.2

11 20.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
418081	2007 <i>VW</i> ₂₉₃		11 20.2 350°91	1.8/19.3	17		107314	2001 <i>CC</i> ₁₁		11 20.2 216°27	3.6/18.4	18	
10 18	4 6.93	+13 8.2	2.391	3.234	11.0	20.7	10 18	4 9.40	+10 29.5	2.050	2.895	12.4	20.5
10 28	4 1.34	+13 15.8	2.316	3.232	8.1	20.5	10 28	4 3.36	+10 0.8	1.974	2.889	9.3	20.3
11 7	3 54.07	+13 24.3	2.266	3.231	4.8	20.3	11 7	3 55.35	+9 33.5	1.922	2.883	5.9	20.1
11 17	3 45.73	+13 34.7	2.245	3.229	2.0	20.1	11 17	3 46.07	+9 10.7	1.899	2.876	3.6	19.9
11 27	3 37.13	+13 48.4	2.254	3.228	3.4	20.2	11 27	3 36.49	+8 55.7	1.904	2.869	5.1	20.0
12 7	3 29.12	+14 6.4	2.293	3.227	6.6	20.4	12 7	3 27.62	+8 51.1	1.939	2.862	8.4	20.2
12 17	3 22.44	+14 29.8	2.359	3.226	9.7	20.6	12 17	3 20.32	+8 58.5	2.000	2.854	11.7	20.4
12 27	3 17.65	+14 59.3	2.450	3.226	12.3	20.8	12 27	3 15.24	+9 18.3	2.083	2.846	14.7	20.6
114306	2002 <i>XT</i> ₄₈		11 20.2 245°73	0.6/19.8	18		385710	2005 <i>UJ</i> ₇₁		11 20.2 356°95	2.4/21.4	18	
10 18	4 8.66	+18 49.8	2.146	2.986	12.1	20.2	10 18	4 5.03	+28 2.1	1.098	1.966	19.2	19.7
10 28	4 2.88	+18 35.4	2.059	2.975	8.9	19.9	10 28	4 1.66	+27 26.4	1.035	1.961	14.6	19.5
11 7	3 55.10	+18 16.0	1.998	2.963	5.2	19.7	11 7	3 54.93	+26 28.5	0.991	1.957	9.2	19.2
11 17	3 46.00	+17 53.2	1.964	2.951	1.3	19.4	11 17	3 46.01	+25 10.2	0.970	1.954	3.7	18.8
11 27	3 36.53	+17 29.3	1.961	2.939	3.0	19.5	11 27	3 36.68	+23 38.3	0.972	1.953	4.3	18.9
12 7	3 27.72	+17 7.4	1.986	2.926	7.0	19.7	12 7	3 28.79	+22 3.8	0.999	1.954	9.9	19.2
12 17	3 20.45	+16 50.9	2.039	2.914	10.6	19.9	12 17	3 23.69	+20 37.9	1.048	1.956	15.2	19.5
12 27	3 15.38	+16 42.3	2.116	2.900	13.7	20.1	12 27	3 22.20	+19 29.3	1.116	1.959	19.7	19.8
328661	2009 <i>SG</i> ₂₆₃		11 20.2 92°81	4.4/17.4	18		19577	Bobbyfisher		11 20.2 355°90	2.9/18.9	18	
10 18	4 5.65	+8 12.4	2.186	3.034	11.7	20.2	10 18	4 8.32	+17 0.0	1.178	2.052	17.7	17.3
10 28	4 0.36	+7 17.7	2.128	3.043	8.8	20.1	10 28	4 3.66	+16 2.0	1.117	2.050	13.0	17.1
11 7	3 53.44	+6 25.7	2.096	3.052	5.9	19.9	11 7	3 55.94	+14 56.4	1.078	2.048	7.7	16.8
11 17	3 45.55	+5 40.7	2.091	3.060	4.4	19.8	11 17	3 46.25	+13 48.9	1.062	2.047	3.1	16.5
11 27	3 37.56	+5 6.7	2.115	3.069	5.7	19.9	11 27	3 36.19	+12 47.3	1.071	2.047	5.7	16.7
12 7	3 30.30	+4 46.4	2.168	3.077	8.4	20.1	12 7	3 27.43	+11 59.3	1.105	2.047	11.0	17.0
12 17	3 24.46	+4 41.1	2.246	3.086	11.2	20.3	12 17	3 21.25	+11 30.0	1.161	2.047	15.9	17.2
12 27	3 20.55	+4 50.4	2.347	3.094	13.6	20.5	12 27	3 18.42	+11 21.5	1.236	2.049	20.0	17.5
275209	2009 <i>WC</i> ₁₇₈		11 20.2 337°43	1.0/19.6	17		378535	2008 <i>AN</i> ₉₈		11 20.2 221°99	4.3/21.9	18	
10 18	4 5.12	+18 52.9	1.940	2.792	12.7	20.6	10 18	4 14.14	+30 13.6	1.504	2.334	16.9	21.3
10 28	4 0.39	+18 20.4	1.863	2.785	9.3	20.4	10 28	4 7.85	+30 31.7	1.430	2.331	13.2	21.1
11 7	3 53.66	+17 42.0	1.811	2.779	5.5	20.2	11 7	3 58.43	+30 33.4	1.377	2.328	8.9	20.8
11 17	3 45.65	+17 0.0	1.786	2.773	1.5	19.9	11 17	3 46.88	+30 16.1	1.349	2.325	5.0	20.6
11 27	3 37.35	+16 18.3	1.790	2.768	3.4	20.0	11 27	3 34.81	+29 40.5	1.347	2.322	5.1	20.6
12 7	3 29.81	+15 41.0	1.821	2.763	7.4	20.2	12 7	3 23.92	+28 51.9	1.373	2.318	8.9	20.8
12 17	3 23.88	+15 12.0	1.879	2.758	11.2	20.5	12 17	3 15.60	+27 58.3	1.424	2.314	13.2	21.1
12 27	3 20.21	+14 54.1	1.960	2.754	14.3	20.7	12 27	3 10.71	+27 8.1	1.496	2.311	17.0	21.3
9743	Tohru		11 20.2 190°81	2.1/19.2	18		193175	2000 <i>OV</i> ₇		11 20.2 118°38	5.1/17.4	18	
10 18	4 11.09	+15 6.6	1.836	2.683	13.6	18.0	10 18	4 10.81	+7 26.0	1.947	2.790	13.1	20.6
10 28	4 4.79	+14 46.2	1.764	2.682	10.0	17.8	10 28	4 4.15	+6 24.2	1.899	2.810	9.8	20.5
11 7	3 56.25	+14 23.6	1.716	2.681	5.9	17.6	11 7	3 55.65	+5 26.5	1.876	2.829	6.7	20.3
11 17	3 46.29	+14 1.1	1.695	2.680	2.3	17.3	11 17	3 46.11	+4 37.7	1.881	2.848	5.1	20.3
11 27	3 36.01	+13 41.9	1.703	2.678	4.1	17.5	11 27	3 36.56	+4 2.4	1.915	2.866	6.5	20.4
12 7	3 26.60	+13 29.3	1.740	2.675	8.2	17.7	12 7	3 27.98	+3 43.4	1.978	2.883	9.3	20.6
12 17	3 19.02	+13 25.9	1.803	2.673	12.1	17.9	12 17	3 21.13	+3 41.3	2.066	2.900	12.2	20.8
12 27	3 13.95	+13 33.3	1.889	2.669	15.3	18.2	12 27	3 16.52	+3 55.5	2.176	2.916	14.8	21.0
298454	2003 <i>UG</i> ₈₄		11 20.2 115°20	2.5/21.2	18		397799	2008 <i>PE</i> ₅		11 20.2 36°46	8.4/15.6	18	
10 18	4 14.52	+25 54.6	1.951	2.775	13.8	21.8	10 18	4 4.78	-0 13.1	1.724	2.574	14.2	19.7
10 28	4 7.29	+26 26.8	1.887	2.789	10.4	21.6	10 28	3 59.93	-1 39.2	1.692	2.594	11.4	19.6
11 7	3 57.70	+26 49.6	1.847	2.802	6.6	21.4	11 7	3 53.24	-2 52.9	1.683	2.615	9.2	19.5
11 17	3 46.63	+27 1.4	1.834	2.815	3.1	21.2	11 17	3 45.53	-3 47.4	1.699	2.637	8.5	19.5
11 27	3 35.30	+27 2.4	1.851	2.828	3.6	21.2	11 27	3 37.82	-4 18.0	1.741	2.659	9.6	19.7
12 7	3 24.95	+26 55.1	1.898	2.840	7.1	21.5	12 7	3 31.09	-4 23.0	1.807	2.682	11.8	19.8
12 17	3 16.58	+26 43.8	1.972	2.852	10.6	21.7	12 17	3 26.05	-4 4.0	1.896	2.705	14.2	20.1
12 27	3 10.89	+26 33.1	2.069	2.864	13.7	22.0	12 27	3 23.20	-3 24.4	2.004	2.728	16.4	20.3
226479	2003 <i>SV</i> ₁₈₅		11 20.2 306°20	1.3/19.4	17		335014	2004 <i>JJ</i>		11 20.2 186°98	0.3/20.0	18	
10 18	4 5.35	+18 15.1	2.076	2.925	12.2	19.8	10 18	4 10.91	+21 33.9	1.743	2.587	14.3	21.5
10 28	4 0.47	+17 37.3	1.994	2.914	8.9	19.6	10 28	4 4.80	+20 56.2	1.670	2.587	10.6	21.2
11 7	3 53.68	+16 54.0	1.936	2.903	5.2	19.4	11 7	3 56.31	+20 9.0	1.621	2.586	6.2	21.0
11 17	3 45.66	+16 7.6	1.907	2.893	1.6	19.1	11 17	3 46.34	+19 14.4	1.598	2.586	1.5	20.7
11 27	3 37.35	+15 21.9	1.906	2.883	3.4	19.2	11 27	3 36.09	+18 17.0	1.605	2.584	3.4	20.8
12 7	3 29.71	+14 41.1	1.934	2.873	7.3	19.5	12 7	3 26.83	+17 22.5	1.640	2.583	8.0	21.1
12 17	3 23.60	+14 9.0	1.989	2.863	10.9	19.7	12 17	3 19.56	+16 36.2	1.702	2.581	12.1	21.3
12 27	3 19.61	+13 48.3	2.067	2.854	14.0	19.9	12 27	3 14.96	+16 2.2	1.786	2.578	15.6	21.6
385635	2005 <i>QX</i> ₇₃		11 20.2 47°99	5.0/22.3	18		343344	2010 <i>CX</i> ₅₅		11 20.2 297°70	0.8/19.8	18	
10 18	4 14.04	+30 52.7	1.226	2.068	19.3	20.0	10 18	4 8.45	+20 41.5	1.512	2.369	15.4	20.5
10 28	4 7.87	+31 18.3	1.181	2.088	14.9	19.8	10 28	4 3.47	+20 1.5	1.431	2.354	11.4	20.2
11 7	3 58.33	+31 24.1	1.156	2.109	10.1	19.6	11 7	3 55.77	+19 10.9	1.372	2.340	6.8	19.9
11 17	3 46.78	+31 7.5	1.154	2.130	5.9	19.4	11 17	3 46.25	+18 12.6	1.338	2.326	1.7	19.6
11 27	3 35.13	+30 30.7	1.178	2.151	5.7	19.5	11 27	3 36.22	+17 11.7	1.332	2.311	3.9	19.7
12 7	3 25.21	+29 40.8	1.226	2.174	9.5	19.8	12 7	3 27.12	+16 14.8	1.353	2.298	9.1	20.0
12 17	3 18.31	+28 47.2	1.298	2.196	13.7	20.1	12 17	3 20.16	+15 28.4	1.398	2.284	13.8	20.2
12 27	3 15.08	+27 58.2	1.392	2.219	17.4	20.4	12 27	3 16.17	+14 57.0	1.465	2.270	17.8	20.4
362853	2012 <i>BE</i> ₃₃		11 20.2 138°85	1.4/19.5	18		431728	2008 <i>FC</i> ₄₁		11 20.2 102°85	1.1/19.7	18	</

EPHEMERIDES

11 20.2

11 20.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
405669	2005 <i>UT</i> ₁₈₅		11 20.2 293°61	1°0/19.5 18			393303	2013 <i>YX</i> ₁₀₀		11 20.2 225°17	2°4/19.1 18		
10 18	4 6.26	+20 51.2	2.023	2.869	12.6	20.6	10 18	4 10.26	+15 9.1	1.603	2.459	14.8	20.7
10 28	4 1.14	+19 45.1	1.941	2.860	9.2	20.3	10 28	4 4.48	+14 40.9	1.535	2.457	10.9	20.5
11 7	3 54.08	+18 29.4	1.885	2.851	5.4	20.1	11 7	3 56.22	+14 9.9	1.489	2.456	6.5	20.2
11 17	3 45.79	+17 7.4	1.856	2.843	1.5	19.8	11 17	3 46.39	+13 39.1	1.470	2.454	2.7	20.0
11 27	3 37.26	+15 44.8	1.857	2.834	3.4	19.9	11 27	3 36.22	+13 12.9	1.478	2.453	4.6	20.1
12 7	3 29.50	+14 27.5	1.888	2.826	7.4	20.2	12 7	3 27.02	+12 55.0	1.514	2.451	9.1	20.4
12 17	3 23.35	+13 21.0	1.945	2.818	11.2	20.4	12 17	3 19.85	+12 48.7	1.575	2.450	13.2	20.6
12 27	3 19.41	+12 29.2	2.026	2.810	14.3	20.6	12 27	3 15.44	+12 55.4	1.657	2.448	16.7	20.8
347541	2000 <i>AF</i> ₄₄		11 20.2 331°94	4°0/19.1 18			365312	2009 <i>SW</i> ₂₉		11 20.2 125°30	0°8/20.7 18		
10 18	4 12.02	+ 8 31.3	1.609	2.461	14.9	20.6	10 18	4 8.63	+23 6.3	2.563	3.389	10.8	21.5
10 28	4 5.79	+ 8 41.6	1.538	2.456	11.2	20.4	10 28	4 2.47	+23 2.0	2.496	3.403	8.0	21.3
11 7	3 57.01	+ 8 58.4	1.490	2.452	7.2	20.1	11 7	3 54.70	+22 51.2	2.455	3.416	4.8	21.1
11 17	3 46.54	+ 9 23.7	1.468	2.447	4.2	20.0	11 17	3 45.97	+22 34.4	2.443	3.429	1.5	20.9
11 27	3 35.63	+ 9 59.0	1.475	2.443	5.7	20.0	11 27	3 37.11	+22 13.3	2.462	3.441	2.3	21.0
12 7	3 25.62	+10 44.8	1.509	2.440	9.6	20.3	12 7	3 28.96	+21 50.5	2.511	3.453	5.6	21.2
12 17	3 17.62	+11 40.4	1.568	2.437	13.6	20.5	12 17	3 22.19	+21 29.1	2.589	3.465	8.6	21.5
12 27	3 12.43	+12 44.8	1.649	2.434	17.0	20.7	12 27	3 17.31	+21 11.8	2.691	3.476	11.1	21.6
427868	2005 <i>QD</i> ₉₅		11 20.2 80°24	3°3/21.6 18			139779	2001 <i>QR</i> ₃₂₈		11 20.2 45°04	2°8/21.1 18		
10 18	4 15.45	+28 14.6	1.473	2.307	17.0	21.2	10 18	4 14.00	+24 36.5	1.580	2.419	15.8	18.8
10 28	4 8.40	+28 27.2	1.423	2.328	12.9	21.0	10 28	4 7.32	+25 28.6	1.526	2.436	11.9	18.6
11 7	3 58.47	+28 24.6	1.394	2.349	8.3	20.8	11 7	3 57.92	+26 11.8	1.495	2.454	7.5	18.4
11 17	3 46.85	+28 5.6	1.390	2.370	4.1	20.6	11 17	3 46.80	+26 43.2	1.490	2.472	3.5	18.2
11 27	3 35.13	+27 32.5	1.414	2.391	4.3	20.6	11 27	3 35.40	+27 2.3	1.513	2.491	4.0	18.2
12 7	3 24.89	+26 51.0	1.466	2.412	8.4	20.9	12 7	3 25.20	+27 11.5	1.564	2.510	8.0	18.5
12 17	3 17.26	+26 8.1	1.542	2.432	12.5	21.2	12 17	3 17.34	+27 14.8	1.641	2.529	12.0	18.8
12 27	3 12.88	+25 30.5	1.641	2.452	15.9	21.5	12 27	3 12.54	+27 17.5	1.740	2.548	15.3	19.1
130374	2000 <i>GB</i> ₁₆₄		11 20.2 279°29	4°4/17.5 18			97429	2000 <i>AT</i> ₂₀₁		11 20.2 348°79	26°5/ 6.7 17		
10 18	4 5.40	+ 6 39.8	2.378	3.221	11.0	19.8	10 18	4 8.70	-27 5.2	0.924	1.720	27.5	19.0
10 28	4 0.28	+ 6 3.9	2.294	3.205	8.4	19.6	10 28	4 4.49	-29 37.6	0.904	1.714	26.7	19.0
11 7	3 53.51	+ 5 31.3	2.236	3.189	5.8	19.4	11 7	3 56.63	-31 16.4	0.895	1.709	26.5	18.9
11 17	3 45.66	+ 5 5.8	2.205	3.172	4.4	19.3	11 17	3 46.50	-31 47.3	0.899	1.704	26.8	18.9
11 27	3 37.51	+ 4 50.4	2.204	3.156	5.6	19.4	11 27	3 36.11	-31 3.6	0.913	1.702	27.5	19.0
12 7	3 29.88	+ 4 47.7	2.231	3.139	8.3	19.5	12 7	3 27.43	-29 9.3	0.939	1.700	28.7	19.1
12 17	3 23.51	+ 4 58.5	2.284	3.123	11.1	19.7	12 17	3 21.86	-26 15.8	0.975	1.699	30.0	19.2
12 27	3 18.96	+ 5 22.8	2.360	3.106	13.6	19.8	12 27	3 20.12	-22 38.6	1.021	1.700	31.3	19.3
347570	2000 <i>XN</i> ₅₅		11 20.2 291°61	7°4/22.6 18			461634	2005 <i>EF</i> ₁₆₉		11 20.2 76°05	22°6/27.0 16		
10 18	4 15.29	+35 41.8	1.701	2.504	16.4	19.7	10 18	4 27.21	-52 43.7	1.778	2.282	24.6	20.8
10 28	4 9.01	+36 53.9	1.613	2.488	13.5	19.5	10 28	4 17.26	-55 38.5	1.841	2.324	24.2	20.9
11 7	3 59.37	+37 50.8	1.546	2.472	10.3	19.3	11 7	4 3.66	-57 36.7	1.913	2.365	23.9	21.0
11 17	3 47.21	+38 26.1	1.504	2.457	7.8	19.1	11 17	3 48.13	-58 35.7	1.991	2.405	23.7	21.1
11 27	3 34.06	+38 35.8	1.488	2.441	7.7	19.0	11 27	3 32.93	-58 38.0	2.073	2.444	23.4	21.2
12 7	3 21.74	+38 21.4	1.499	2.426	10.0	19.2	12 7	3 20.12	-57 50.9	2.159	2.482	23.2	21.3
12 17	3 11.86	+37 49.2	1.534	2.410	13.4	19.3	12 17	3 10.94	-56 23.7	2.246	2.519	22.9	21.5
12 27	3 5.55	+37 8.4	1.592	2.395	16.7	19.5	12 27	3 5.86	-54 26.4	2.334	2.555	22.6	21.6
395852	2012 <i>XF</i> ₁₅₄		11 20.2 194°28	3°9/17.9 18			388860	2008 <i>JU</i> ₃₆		11 20.2 65°85	4°5/17.3 18		
10 18	4 7.97	+ 9 57.5	2.121	2.967	12.1	21.6	10 18	4 6.41	+ 9 38.8	1.991	2.842	12.5	20.6
10 28	4 2.22	+ 9 10.8	2.050	2.965	9.0	21.4	10 28	4 0.97	+ 8 24.7	1.946	2.863	9.3	20.4
11 7	3 54.65	+ 8 25.1	2.004	2.963	5.9	21.2	11 7	3 53.83	+ 7 12.8	1.926	2.884	6.2	20.3
11 17	3 45.94	+ 7 44.4	1.986	2.961	3.9	21.1	11 17	3 45.76	+ 6 8.3	1.934	2.905	4.5	20.2
11 27	3 37.01	+ 7 12.7	1.998	2.958	5.4	21.2	11 27	3 37.69	+ 5 16.0	1.971	2.926	5.9	20.4
12 7	3 28.80	+ 6 53.2	2.038	2.955	8.4	21.4	12 7	3 30.50	+ 4 39.6	2.036	2.947	8.8	20.6
12 17	3 22.10	+ 6 47.4	2.105	2.952	11.5	21.6	12 17	3 24.89	+ 4 20.3	2.127	2.968	11.7	20.8
12 27	3 17.47	+ 6 55.9	2.194	2.948	14.2	21.8	12 27	3 21.32	+ 4 18.0	2.239	2.989	14.1	21.0
353758	2012 <i>BR</i> ₁₅₁		11 20.2 74°19	0°7/19.8 18			486305	2013 <i>CL</i> ₈₄		11 20.2 303°91	0°8/20.6 18		
10 18	4 7.74	+19 63.3	1.990	2.836	12.7	20.5	10 18	4 9.16	+22 15.4	1.711	2.558	14.4	21.1
10 28	4 2.17	+18 43.7	1.926	2.844	9.3	20.3	10 28	4 3.84	+22 18.2	1.628	2.545	10.8	20.9
11 7	3 54.65	+18 15.8	1.886	2.852	5.4	20.1	11 7	3 55.98	+22 13.2	1.567	2.531	6.5	20.6
11 17	3 45.96	+17 44.6	1.873	2.861	1.4	19.8	11 17	3 46.38	+22 0.3	1.532	2.518	1.9	20.3
11 27	3 37.09	+17 13.1	1.890	2.869	3.1	20.0	11 27	3 36.24	+21 41.6	1.525	2.505	3.3	20.3
12 7	3 29.08	+16 45.1	1.936	2.877	7.1	20.3	12 7	3 26.91	+21 20.5	1.546	2.493	7.9	20.6
12 17	3 22.73	+16 23.8	2.008	2.886	10.6	20.5	12 17	3 19.52	+21 1.7	1.592	2.480	12.3	20.8
12 27	3 18.62	+16 11.7	2.104	2.894	13.6	20.7	12 27	3 14.89	+20 49.2	1.661	2.468	15.9	21.0
4767	<i>Sutoku</i>		11 20.2 199°63	4°4/17.3 18			472841	2015 <i>FN</i> ₂₆₄		11 20.2 109°17	4°3/18.5 18		
10 18	4 7.14	+ 9 35.9	2.132	2.979	12.0	17.5	10 18	4 12.68	+10 22.8	1.560	2.412	15.3	21.3
10 28	4 1.60	+ 8 26.7	2.062	2.977	9.0	17.3	10 28	4 6.06	+ 9 48.7	1.507	2.426	11.3	21.1
11 7	3 54.29	+ 7 18.0	2.017	2.974	6.0	17.2	11 7	3 57.03	+ 9 17.2	1.477	2.439	7.2	20.9
11 17	3 45.88	+ 6 14.6	2.000	2.971	4.4	17.1	11 17	3 46.58	+ 8 52.2	1.474	2.452	4.4	20.8
11 27	3 37.27	+ 5 21.6	2.013	2.968	5.8	17.1	11 27	3 36.00	+ 8 37.9	1.499	2.465	6.0	20.9
12 7	3 29.37	+ 4 42.9	2.055	2.964	8.8	17.3	12 7	3 26.58	+ 8 37.1	1.551	2.477	9.8	21.2
12 17	3 22.95	+ 4 20.6	2.122	2.960	11.8	17.5	12 17	3 19.30	+ 8 50.8	1.627	2.489	13.6	21.4
12 27	3 18.57	+ 4 15.3	2.211	2.956	14.4	17.7	12 27	3 14.77	+ 9 18.5	1.725	2.500	16.8	21.7
436198	2009 <i>WH</i> ₁₆₉		11 20.2 60°68	3°0/19.2 18			28742						

EPHEMERIDES

11 20.2

11 20.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
39989	1998 <i>HP</i> ₃₅		11 20.2	25°59	5°8/17.3	18	161021	2002 <i>EC</i> ₁₆₁		11 20.2	134°95	1°6/19.4	18
10 18	4 7.15	+ 9 11.1	1.458	2.323	15.4	17.8	10 18	4 10.67	+16 55.8	1.996	2.838	12.8	21.1
10 28	4 2.20	+ 7 56.2	1.403	2.327	11.6	17.6	10 28	4 4.28	+16 25.5	1.933	2.850	9.4	20.9
11 7	3 54.86	+ 6 43.6	1.371	2.331	7.8	17.4	11 7	3 55.91	+15 51.4	1.895	2.861	5.5	20.7
11 17	3 46.06	+ 5 40.3	1.364	2.336	5.8	17.3	11 17	3 46.37	+15 16.0	1.885	2.871	1.9	20.5
11 27	3 37.07	+ 4 53.1	1.384	2.341	7.6	17.4	11 27	3 36.69	+14 42.6	1.905	2.881	3.6	20.6
12 7	3 29.15	+ 4 26.5	1.429	2.347	11.2	17.6	12 7	3 27.90	+14 14.9	1.955	2.890	7.4	20.9
12 17	3 23.28	+ 4 22.2	1.497	2.353	14.9	17.9	12 17	3 20.84	+13 56.0	2.031	2.899	10.9	21.1
12 27	3 20.10	+ 4 38.8	1.585	2.359	18.0	18.1	12 27	3 16.07	+13 47.7	2.130	2.908	13.9	21.4
167391	2003 <i>WN</i> ₉₁		11 20.2	292°99	3°0/18.8	18	134758	2000 <i>CZ</i> ₂₉		11 20.2	291°90	3°2/21.7	17
10 18	4 8.00	+13 52.0	1.722	2.578	13.9	20.0	10 18	4 9.97	+28 44.1	1.779	2.609	14.7	19.6
10 28	4 2.89	+13 15.9	1.635	2.558	10.3	19.8	10 28	4 4.55	+28 50.6	1.688	2.591	11.4	19.3
11 7	3 55.39	+12 37.2	1.571	2.537	6.3	19.5	11 7	3 56.49	+28 43.7	1.620	2.574	7.5	19.0
11 17	3 46.25	+11 59.5	1.534	2.517	3.1	19.2	11 17	3 46.59	+28 21.9	1.578	2.557	3.9	18.8
11 27	3 36.57	+11 27.3	1.525	2.497	5.0	19.3	11 27	3 36.10	+27 46.2	1.563	2.540	4.1	18.8
12 7	3 27.61	+11 5.0	1.543	2.476	9.3	19.5	12 7	3 26.41	+27 0.9	1.576	2.523	7.9	19.0
12 17	3 20.44	+10 55.8	1.586	2.456	13.4	19.7	12 17	3 18.73	+26 12.3	1.616	2.506	12.0	19.2
12 27	3 15.86	+11 1.5	1.650	2.436	17.0	19.9	12 27	3 13.91	+25 26.9	1.677	2.489	15.6	19.4
190130	2005 <i>CR</i> ₂₅		11 20.2	35°58	9°0/15.9	18	205075	1999 <i>RU</i> ₂₁₈		11 20.2	36°80	3°0/21.5	18
10 18	4 5.94	- 5 3.9	1.938	2.768	13.7	19.3	10 18	4 10.77	+27 13.3	1.334	2.184	17.5	19.6
10 28	4 0.74	- 5 58.2	1.895	2.778	11.4	19.2	10 28	4 5.30	+27 21.5	1.283	2.198	13.3	19.4
11 7	3 53.77	- 6 37.5	1.874	2.789	9.6	19.1	11 7	3 56.87	+27 14.6	1.252	2.213	8.4	19.2
11 17	3 45.77	- 6 56.6	1.879	2.800	9.0	19.1	11 17	3 46.63	+26 52.2	1.246	2.228	3.9	19.0
11 27	3 37.69	- 6 52.0	1.909	2.812	9.9	19.2	11 27	3 36.21	+26 17.0	1.266	2.244	4.2	19.0
12 7	3 30.45	- 6 23.5	1.964	2.824	11.7	19.3	12 7	3 27.20	+25 35.1	1.311	2.261	8.7	19.4
12 17	3 24.78	- 5 33.2	2.042	2.836	13.9	19.5	12 17	3 20.78	+24 53.5	1.381	2.279	13.0	19.7
12 27	3 21.20	- 4 24.8	2.140	2.849	15.9	19.7	12 27	3 17.64	+24 18.6	1.472	2.297	16.8	19.9
52413	1994 <i>BF</i> ₄		11 20.2	264°96	3°0/18.6	18	266614	2008 <i>OV</i> ₁₀		11 20.2	74°01	8°1/16.2	18
10 18	4 7.45	+12 57.4	1.947	2.798	12.7	18.4	10 18	4 7.37	- 5 17.1	2.223	3.042	12.5	20.0
10 28	4 2.07	+12 21.2	1.874	2.794	9.4	18.2	10 28	4 1.53	- 6 3.6	2.185	3.062	10.4	19.9
11 7	3 54.69	+11 44.1	1.825	2.789	5.8	18.0	11 7	3 54.15	- 6 36.5	2.171	3.082	8.7	19.8
11 17	3 46.04	+11 9.3	1.803	2.784	3.1	17.8	11 17	3 45.92	- 6 51.3	2.183	3.102	8.1	19.8
11 27	3 37.10	+10 40.9	1.810	2.779	4.7	17.9	11 27	3 37.67	- 6 45.6	2.222	3.122	8.8	19.9
12 7	3 28.92	+10 22.1	1.845	2.775	8.3	18.1	12 7	3 30.23	- 6 19.1	2.288	3.142	10.5	20.1
12 17	3 22.35	+10 15.3	1.907	2.770	11.8	18.3	12 17	3 24.23	- 5 33.8	2.377	3.161	12.4	20.2
12 27	3 18.04	+10 21.5	1.990	2.765	14.8	18.5	12 27	3 20.13	- 4 32.7	2.487	3.181	14.2	20.4
152797	1999 <i>TG</i> ₁₂₁		11 20.2	30°47	4°3/17.7	18	511922	2015 <i>HT</i> ₁₂₃		11 20.2	184°53	0°8/19.8	18
10 18	4 5.54	+10 12.5	1.863	2.720	13.0	19.1	10 18	4 12.00	+19 9.8	1.840	2.682	13.8	22.9
10 28	4 0.61	+ 9 14.7	1.804	2.725	9.7	18.9	10 28	4 5.56	+18 44.1	1.766	2.683	10.1	22.6
11 7	3 53.79	+ 8 18.3	1.769	2.730	6.3	18.7	11 7	3 56.82	+18 12.1	1.717	2.683	5.9	22.4
11 17	3 45.81	+ 7 28.0	1.762	2.736	4.4	18.6	11 17	3 46.63	+17 35.6	1.695	2.682	1.6	22.1
11 27	3 37.68	+ 6 48.6	1.782	2.742	5.9	18.7	11 27	3 36.14	+16 58.3	1.702	2.681	3.4	22.2
12 7	3 30.38	+ 6 23.7	1.830	2.749	9.1	18.9	12 7	3 26.57	+16 24.4	1.739	2.679	7.8	22.5
12 17	3 24.71	+ 6 15.1	1.902	2.756	12.3	19.1	12 17	3 18.89	+15 58.1	1.802	2.676	11.8	22.7
12 27	3 21.23	+ 6 22.6	1.996	2.763	15.1	19.3	12 27	3 13.77	+15 42.4	1.887	2.673	15.1	23.0
445747	2011 <i>WW</i> ₃₆		11 20.2	60°72	1°2/19.6	18	144589	2004 <i>FJ</i> ₄₁		11 20.2	344°17	1°0/20.7	18
10 18	4 8.07	+18 57.7	1.787	2.638	13.7	21.4	10 18	4 8.50	+23 42.0	1.761	2.605	14.2	19.6
10 28	4 2.64	+18 18.5	1.721	2.642	10.0	21.1	10 28	4 3.18	+23 29.2	1.687	2.602	10.6	19.4
11 7	3 55.06	+17 32.7	1.679	2.646	5.9	20.9	11 7	3 55.50	+23 6.6	1.637	2.600	6.4	19.1
11 17	3 46.16	+16 43.5	1.664	2.651	1.7	20.6	11 17	3 46.31	+22 34.9	1.612	2.598	2.0	18.8
11 27	3 37.06	+15 55.0	1.677	2.655	3.6	20.8	11 27	3 36.80	+21 57.0	1.616	2.597	3.1	18.9
12 7	3 28.88	+15 12.3	1.719	2.660	7.9	21.1	12 7	3 28.19	+21 17.4	1.649	2.596	7.5	19.2
12 17	3 22.53	+14 39.3	1.787	2.664	11.7	21.3	12 17	3 21.51	+20 41.4	1.707	2.594	11.6	19.4
12 27	3 18.63	+14 18.9	1.877	2.669	15.0	21.5	12 27	3 17.44	+20 13.2	1.787	2.594	15.0	19.7
6849	1979 <i>MX</i> ₆		11 20.2	158°90	1°1/20.8	18	332878	2011 <i>AQ</i> ₂₇		11 20.2	156°63	4°8/23.2	18
10 18	4 11.94	+24 54.7	1.714	2.552	14.8	17.7	10 18	4 16.09	+35 29.0	2.053	2.843	14.5	21.1
10 28	4 5.66	+24 25.9	1.644	2.556	11.1	17.5	10 28	4 8.54	+35 28.7	1.979	2.852	11.5	21.0
11 7	3 56.90	+23 44.7	1.597	2.559	6.7	17.3	11 7	3 58.53	+35 10.3	1.929	2.860	8.2	20.8
11 17	3 46.62	+22 52.4	1.577	2.562	2.1	17.0	11 17	3 47.04	+34 32.0	1.904	2.868	5.5	20.6
11 27	3 36.10	+21 53.1	1.585	2.565	3.2	17.1	11 27	3 35.36	+33 35.2	1.910	2.874	5.1	20.6
12 7	3 26.65	+20 52.7	1.622	2.568	7.8	17.4	12 7	3 24.79	+32 25.2	1.944	2.880	7.4	20.8
12 17	3 19.31	+19 57.5	1.685	2.570	11.9	17.6	12 17	3 16.38	+31 9.3	2.007	2.885	10.6	21.0
12 27	3 14.74	+19 12.8	1.772	2.571	15.4	17.8	12 27	3 10.77	+29 55.1	2.094	2.889	13.5	21.2
187260	2005 <i>SH</i> ₂₇₉		11 20.2	334°74	0°3/20.0	18	126647	2002 <i>CR</i> ₁₈₂		11 20.2	345°88	0°4/20.4	18
10 18	4 7.26	+20 16.9	1.926	2.773	13.0	21.1	10 18	4 8.14	+21 43.4	1.928	2.771	13.2	20.6
10 28	4 2.04	+19 56.4	1.852	2.770	9.6	20.9	10 28	4 2.73	+21 38.1	1.854	2.770	9.8	20.4
11 7	3 54.73	+19 29.2	1.801	2.767	5.6	20.6	11 7	3 55.17	+21 25.9	1.803	2.768	5.8	20.2
11 17	3 46.09	+18 57.2	1.778	2.765	1.4	20.3	11 17	3 46.23	+21 7.3	1.780	2.767	1.6	19.9
11 27	3 37.17	+18 23.3	1.783	2.763	3.1	20.5	11 27	3 36.98	+20 44.7	1.785	2.766	2.9	20.0
12 7	3 29.03	+17 51.6	1.817	2.760	7.3	20.7	12 7	3 28.53	+20 21.5	1.819	2.765	7.1	20.2
12 17	3 22.60	+17 25.8	1.877	2.758	11.0	21.0	12 17	3 21.82	+20 1.5	1.880	2.764	10.9	20.5
12 27	3 18.50	+17 9.1	1.960	2.757	14.3	21.2	12 27	3 17.50	+19 48.1	1.963	2.763	14.1	20.7
515830	2015 <i>MJ</i> ₁₃₅		11 20.2	95°45	1°1/20.7	18	472291						

EPHEMERIDES

11 20.2

11 20.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
432333	2009 <i>UC</i> ₁₂₈		11 20.2 77°83	0°4/20.1	18		1261	Legia		11 20.2 265°49	0°2/20.1	18	
10 18	4 13.16	+18 56.4	1.464	2.317	16.1	21.0	10 18	4 6.82	+20 3.9	2.489	3.324	10.8	16.5
10 28	4 6.76	+18 57.2	1.407	2.328	11.8	20.8	10 28	4 1.43	+19 52.7	2.396	3.309	8.0	16.3
11 7	3 57.64	+18 52.6	1.373	2.340	6.9	20.5	11 7	3 54.32	+19 36.6	2.329	3.293	4.7	16.0
11 17	3 46.84	+18 43.5	1.365	2.352	1.7	20.2	11 17	3 46.06	+19 16.4	2.290	3.277	1.2	15.7
11 27	3 35.82	+18 32.5	1.384	2.364	3.7	20.4	11 27	3 37.46	+18 54.1	2.282	3.261	2.5	15.8
12 7	3 26.02	+18 23.3	1.431	2.376	8.6	20.7	12 7	3 29.39	+18 32.5	2.303	3.245	6.1	16.0
12 17	3 18.58	+18 19.4	1.502	2.387	13.0	21.0	12 17	3 22.61	+18 14.3	2.353	3.228	9.4	16.2
12 27	3 14.19	+18 23.9	1.595	2.399	16.6	21.3	12 27	3 17.71	+18 2.2	2.427	3.211	12.2	16.4
78411	2002 <i>QG</i> ₂₈		11 20.2 349°89	1°1/20.6	18		418653	2008 <i>TT</i> ₈₄		11 20.2 357°64	2°9/21.8	17	
10 18	4 10.18	+23 5.5	1.262	2.123	17.6	19.6	10 18	4 9.02	+28 32.0	2.350	3.166	12.0	21.1
10 28	4 5.19	+23 0.2	1.196	2.120	13.2	19.3	10 28	4 3.19	+28 54.7	2.271	3.166	9.2	20.9
11 7	3 57.03	+22 43.5	1.150	2.117	8.0	19.0	11 7	3 55.40	+29 7.8	2.216	3.166	6.1	20.7
11 17	3 46.75	+22 15.7	1.128	2.115	2.4	18.7	11 17	3 46.33	+29 10.1	2.189	3.166	3.4	20.5
11 27	3 35.97	+21 40.2	1.132	2.113	3.9	18.8	11 27	3 36.94	+29 1.9	2.192	3.166	3.5	20.5
12 7	3 26.44	+21 3.1	1.161	2.112	9.5	19.1	12 7	3 28.23	+28 45.6	2.224	3.166	6.3	20.7
12 17	3 19.52	+20 30.9	1.214	2.111	14.5	19.4	12 17	3 21.05	+28 24.8	2.284	3.166	9.3	20.9
12 27	3 16.05	+20 9.2	1.286	2.111	18.7	19.6	12 27	3 16.05	+28 3.8	2.368	3.166	12.1	21.1
473575	2015 <i>XL</i> ₂₂₈		11 20.2 61°60	2°4/19.1	16		344594	2003 <i>CJ</i> ₇		11 20.2 231°49	2°0/19.3	18	
10 18	4 8.43	+12 44.7	2.048	2.895	12.4	21.4	10 18	4 11.80	+15 3.6	1.949	2.792	13.1	21.4
10 28	4 2.67	+12 37.1	1.983	2.901	9.1	21.2	10 28	4 5.44	+14 45.3	1.864	2.780	9.7	21.2
11 7	3 55.01	+12 30.3	1.943	2.907	5.5	21.0	11 7	3 56.83	+14 24.7	1.803	2.768	5.8	21.0
11 17	3 46.19	+12 26.1	1.930	2.913	2.6	20.8	11 17	3 46.71	+14 3.9	1.770	2.754	2.3	20.7
11 27	3 37.15	+12 26.7	1.947	2.919	4.0	20.9	11 27	3 36.15	+13 45.9	1.766	2.741	4.0	20.8
12 7	3 28.89	+12 33.9	1.992	2.925	7.5	21.2	12 7	3 26.29	+13 33.7	1.792	2.726	8.1	21.0
12 17	3 22.20	+12 49.1	2.064	2.932	10.8	21.4	12 17	3 18.15	+13 30.2	1.844	2.711	11.9	21.2
12 27	3 17.67	+13 12.9	2.160	2.938	13.7	21.6	12 27	3 12.44	+13 37.2	1.919	2.696	15.2	21.4
239104	2006 <i>HN</i> ₅₆		11 20.2 196°83	2°5/18.8	18		216424	2008 <i>TZ</i> ₁₇₂		11 20.2 342°87	7°1/18.2	18	
10 18	4 9.72	+13 34.8	2.179	3.021	11.9	21.8	10 18	4 9.21	+3 24.2	1.417	2.276	16.2	19.3
10 28	4 3.56	+13 2.2	2.103	3.018	8.8	21.6	10 28	4 4.01	+3 4.0	1.352	2.268	12.6	19.1
11 7	3 55.54	+12 28.2	2.051	3.015	5.4	21.4	11 7	3 56.17	+2 55.1	1.308	2.261	9.1	18.9
11 17	3 46.33	+11 55.5	2.029	3.011	2.6	21.2	11 17	3 46.56	+3 2.5	1.288	2.254	7.1	18.7
11 27	3 36.86	+11 27.5	2.036	3.006	4.2	21.3	11 27	3 36.51	+3 29.8	1.294	2.248	8.5	18.8
12 7	3 28.09	+11 7.3	2.073	3.001	7.6	21.5	12 7	3 27.43	+4 17.8	1.326	2.244	11.9	19.0
12 17	3 20.84	+10 57.2	2.137	2.996	10.9	21.7	12 17	3 20.47	+5 24.6	1.380	2.239	15.7	19.2
12 27	3 15.70	+10 58.5	2.224	2.989	13.8	21.9	12 27	3 16.43	+6 46.8	1.454	2.236	19.0	19.4
138304	2000 <i>GE</i> ₅₅		11 20.2 211°67	1°0/19.6	18		144439	2004 <i>EB</i> ₃₅		11 20.2 14°39	3°9/18.3	18	
10 18	4 8.51	+18 20.4	2.388	3.224	11.2	21.3	10 18	4 7.65	+10 55.1	1.813	2.667	13.4	19.8
10 28	4 2.61	+17 50.5	2.304	3.218	8.2	21.1	10 28	4 2.32	+10 16.2	1.747	2.668	10.0	19.6
11 7	3 54.95	+17 15.7	2.246	3.211	4.8	20.9	11 7	3 54.91	+9 38.4	1.706	2.668	6.4	19.4
11 17	3 46.18	+16 38.0	2.216	3.203	1.4	20.6	11 17	3 46.21	+9 5.7	1.691	2.669	3.9	19.2
11 27	3 37.15	+16 0.3	2.218	3.195	3.0	20.8	11 27	3 37.27	+8 42.2	1.705	2.670	5.5	19.3
12 7	3 28.75	+15 26.0	2.249	3.186	6.5	21.0	12 7	3 29.16	+8 30.9	1.745	2.671	9.0	19.5
12 17	3 21.74	+14 58.2	2.309	3.176	9.8	21.2	12 17	3 22.77	+8 33.6	1.812	2.672	12.4	19.8
12 27	3 16.70	+14 39.5	2.392	3.167	12.6	21.3	12 27	3 18.72	+8 50.5	1.899	2.674	15.5	20.0
518773	2009 <i>WW</i> ₂₀₇		11 20.2 83°05	0°1/20.3	18		118253	1998 <i>BK</i> ₄₃		11 20.2 179°39	0°7/20.6	18	
10 18	4 9.32	+19 36.8	2.268	3.104	11.7	21.1	10 18	4 8.84	+22 45.4	2.034	2.872	12.8	20.9
10 28	4 3.20	+19 48.2	2.204	3.116	8.6	20.9	10 28	4 3.15	+22 39.2	1.959	2.872	9.5	20.7
11 7	3 55.28	+19 55.7	2.164	3.128	5.0	20.7	11 7	3 55.40	+22 25.3	1.909	2.872	5.7	20.5
11 17	3 46.26	+19 59.4	2.153	3.140	1.3	20.4	11 17	3 46.34	+22 4.3	1.885	2.872	1.7	20.2
11 27	3 37.04	+20 0.5	2.173	3.152	2.6	20.6	11 27	3 36.99	+21 38.4	1.892	2.872	2.8	20.3
12 7	3 28.57	+20 1.1	2.222	3.164	6.2	20.8	12 7	3 28.43	+21 11.0	1.927	2.872	6.8	20.5
12 17	3 21.62	+20 3.4	2.299	3.176	9.5	21.0	12 17	3 21.55	+20 46.1	1.989	2.872	10.4	20.7
12 27	3 16.75	+20 9.5	2.400	3.188	12.2	21.3	12 27	3 16.99	+20 27.2	2.075	2.872	13.6	21.0
495792	2017 <i>FJ</i> ₅₅		11 20.2 177°57	2°0/21.2	17		115281	2003 <i>SK</i> ₁₈₉		11 20.2 12°88	0°2/20.1	18	
10 18	4 10.16	+25 13.7	2.390	3.212	11.7	20.7	10 18	4 5.81	+21 13.9	1.906	2.755	13.1	19.4
10 28	4 3.95	+25 42.0	2.311	3.212	8.8	20.5	10 28	4 0.97	+20 46.0	1.838	2.757	9.6	19.2
11 7	3 55.82	+26 3.2	2.257	3.212	5.6	20.4	11 7	3 54.12	+20 10.4	1.793	2.760	5.6	18.9
11 17	3 46.42	+26 16.3	2.231	3.213	2.5	20.2	11 17	3 46.02	+19 29.4	1.776	2.763	1.4	18.6
11 27	3 36.68	+26 21.4	2.236	3.213	2.9	20.2	11 27	3 37.70	+18 46.3	1.787	2.767	3.0	18.8
12 7	3 27.59	+26 20.3	2.270	3.213	6.1	20.4	12 7	3 30.22	+18 5.6	1.826	2.771	7.1	19.0
12 17	3 19.98	+26 15.9	2.333	3.213	9.2	20.6	12 17	3 24.42	+17 31.5	1.892	2.776	10.8	19.3
12 27	3 14.50	+26 11.6	2.420	3.212	12.0	20.8	12 27	3 20.91	+17 7.1	1.980	2.781	14.0	19.5
218406	2004 <i>RO</i> ₁₈		11 20.2 63°30	3°9/18.1	18		83455	2001 <i>SB</i> ₆₃		11 20.2 56°74	2°9/18.7	18	
10 18	4 6.81	+10 42.4	1.940	2.792	12.7	20.6	10 18	4 7.47	+14 3.9	1.816	2.671	13.4	19.1
10 28	4 1.44	+9 53.0	1.887	2.806	9.4	20.4	10 28	4 2.13	+13 20.1	1.756	2.677	9.8	18.9
11 7	3 54.24	+9 5.2	1.859	2.821	6.0	20.3	11 7	3 54.76	+12 34.5	1.719	2.684	5.9	18.7
11 17	3 46.00	+8 22.8	1.859	2.835	3.9	20.2	11 17	3 46.17	+11 50.9	1.709	2.692	3.0	18.5
11 27	3 37.66	+7 50.2	1.887	2.850	5.4	20.3	11 27	3 37.41	+11 13.7	1.728	2.699	4.7	18.6
12 7	3 30.19	+7 30.4	1.943	2.864	8.5	20.5	12 7	3 29.54	+10 46.7	1.775	2.706	8.4	18.9
12 17	3 24.34	+7 24.8	2.024	2.879	11.6	20.7	12 17	3 23.41	+10 32.5	1.847	2.714	11.9	19.1
12 27	3 20.63	+7 33.4	2.128	2.894	14.3	21.0	12 27	3 19.61	+10 32.2	1.941	2.722	15.0	19.3
242222	2003 <i>SQ</i> ₁₄		11 20.2 38°92	9°1/25.2	17		318394	2004 <i>XM</i> ₆₅		11 20.2 9°20	1°4/21.1	18	

EPHEMERIDES

11 20.2

11 20.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
27104	1998 <i>VH</i> ₁₈		11 20.2	41°27'	2°8'/21.5	18	268223	2005 <i>EE</i> ₃		11 20.3	301°78'	3°3'/18.4	17
10 18	4 11.96	+28 2.6	0.996	1.861	20.9	17.7	10 18	4 5.69	+10 53.2	2.248	3.096	11.4	20.3
10 28	4 6.81	+27 39.7	0.952	1.875	15.8	17.4	10 28	4 0.62	+10 21.5	2.174	3.091	8.5	20.1
11 7	3 58.00	+26 55.5	0.926	1.890	9.9	17.2	11 7	3 53.84	+9 50.8	2.125	3.086	5.4	19.9
11 17	3 47.01	+25 51.2	0.922	1.906	4.1	16.9	11 17	3 46.00	+9 24.0	2.104	3.082	3.3	19.8
11 27	3 35.93	+24 33.7	0.942	1.923	4.6	17.0	11 27	3 37.91	+9 4.4	2.112	3.077	4.6	19.9
12 7	3 26.76	+23 13.8	0.986	1.940	10.2	17.4	12 7	3 30.44	+8 54.4	2.149	3.073	7.6	20.0
12 17	3 20.85	+22 2.1	1.052	1.958	15.4	17.7	12 17	3 24.34	+8 55.7	2.212	3.069	10.7	20.2
12 27	3 18.80	+21 6.4	1.138	1.977	19.7	18.0	12 27	3 20.15	+9 8.6	2.299	3.064	13.4	20.4
135304	2001 <i>SA</i> ₂₄₉		11 20.2	246°77'	0°5'/20.5	18	288056	2003 <i>UD</i> ₃₀₄		11 20.3	25°27'	3°2'/21.6	18
10 18	4 11.93	+21 39.4	1.738	2.580	14.4	20.5	10 18	4 11.44	+27 47.8	1.644	2.478	15.5	20.7
10 28	4 5.87	+21 36.5	1.655	2.570	10.8	20.2	10 28	4 5.63	+28 6.1	1.574	2.480	11.8	20.5
11 7	3 57.24	+21 26.0	1.596	2.560	6.5	19.9	11 7	3 57.12	+28 11.8	1.527	2.483	7.7	20.2
11 17	3 46.87	+21 8.0	1.563	2.549	1.8	19.6	11 17	3 46.85	+28 3.2	1.505	2.485	3.9	20.0
11 27	3 35.98	+20 44.8	1.558	2.538	3.2	19.7	11 27	3 36.18	+27 41.3	1.511	2.488	4.1	20.0
12 7	3 25.94	+20 20.3	1.582	2.527	8.0	20.0	12 7	3 26.55	+27 10.5	1.544	2.490	8.0	20.3
12 17	3 17.88	+19 58.8	1.632	2.516	12.3	20.2	12 17	3 19.14	+26 36.4	1.602	2.493	12.0	20.5
12 27	3 12.62	+19 44.8	1.705	2.504	15.9	20.4	12 27	3 14.70	+26 5.4	1.683	2.496	15.5	20.8
372348	2009 <i>FS</i> ₃₆		11 20.2	183°70'	0°6'/20.0	16	300472	2007 <i>TE</i> ₁₁₄		11 20.3	103°90'	5°4'/22.9	18
10 18	4 14.63	+19 10.1	1.610	2.454	15.3	22.8	10 18	4 16.29	+34 15.1	1.942	2.739	14.9	20.1
10 28	4 7.84	+19 0.1	1.538	2.455	11.3	22.6	10 28	4 8.92	+34 59.6	1.879	2.755	11.8	19.9
11 7	3 58.36	+18 43.9	1.490	2.455	6.7	22.3	11 7	3 58.93	+35 28.4	1.840	2.771	8.6	19.7
11 17	3 47.13	+18 22.7	1.468	2.455	1.7	22.0	11 17	3 47.28	+35 37.9	1.826	2.787	6.0	19.6
11 27	3 35.51	+17 59.6	1.475	2.454	3.7	22.1	11 27	3 35.34	+35 27.7	1.842	2.802	5.7	19.6
12 7	3 24.94	+17 38.5	1.510	2.452	8.5	22.4	12 7	3 24.49	+35 1.2	1.885	2.817	8.0	19.8
12 17	3 16.57	+17 23.7	1.571	2.450	12.9	22.7	12 17	3 15.87	+34 24.4	1.955	2.831	10.9	20.0
12 27	3 11.17	+17 18.5	1.653	2.447	16.6	22.9	12 27	3 10.18	+33 44.5	2.049	2.846	13.7	20.2
27542	2000 <i>JB</i> ₁₁		11 20.2	31°70'	1°7'/21.2	18	22586	Shellyhynes		11 20.3	350°68'	6°2'/17.4	18
10 18	4 8.97	+25 54.7	1.718	2.559	14.7	18.0	10 18	4 6.46	+11 10.8	1.127	2.008	17.8	17.6
10 28	4 3.56	+25 41.4	1.651	2.562	11.0	17.8	10 28	4 2.45	+9 44.9	1.069	2.003	13.4	17.3
11 7	3 55.77	+25 16.1	1.606	2.567	6.8	17.6	11 7	3 55.42	+8 17.8	1.032	1.998	8.8	17.1
11 17	3 46.47	+24 39.2	1.587	2.571	2.6	17.3	11 17	3 46.44	+6 58.3	1.018	1.995	6.2	16.9
11 27	3 36.92	+23 53.9	1.596	2.576	3.3	17.4	11 27	3 37.07	+5 56.5	1.029	1.992	8.5	17.0
12 7	3 28.38	+23 5.3	1.633	2.581	7.5	17.7	12 7	3 28.95	+5 19.4	1.062	1.991	13.0	17.3
12 17	3 21.85	+22 19.2	1.696	2.587	11.5	17.9	12 17	3 23.32	+5 9.7	1.117	1.990	17.5	17.6
12 27	3 18.01	+21 40.8	1.782	2.592	14.9	18.2	12 27	3 20.96	+5 26.4	1.188	1.990	21.3	17.8
229868	2009 <i>TS</i> ₃₅		11 20.2	17°33'	3°2'/18.1	18	413359	2003 <i>YB</i> ₁₂₆		11 20.3	23°63'	0°9'/20.6	18
10 18	4 4.87	+15 16.1	1.863	2.720	13.0	19.8	10 18	4 10.71	+20 36.6	1.919	2.760	13.4	19.5
10 28	4 0.20	+13 53.6	1.800	2.724	9.5	19.6	10 28	4 4.66	+21 14.9	1.852	2.766	9.9	19.3
11 7	3 53.63	+12 26.6	1.762	2.728	5.8	19.4	11 7	3 56.38	+21 49.0	1.810	2.773	5.9	19.1
11 17	3 45.92	+11 0.6	1.751	2.732	3.2	19.2	11 17	3 46.66	+22 17.8	1.794	2.780	1.8	18.8
11 27	3 38.07	+9 42.0	1.770	2.737	5.0	19.3	11 27	3 36.60	+22 41.3	1.808	2.788	2.9	18.9
12 7	3 31.07	+8 36.6	1.816	2.743	8.6	19.6	12 7	3 27.36	+23 0.8	1.851	2.796	7.0	19.2
12 17	3 25.71	+7 48.2	1.888	2.749	12.0	19.8	12 17	3 19.91	+23 18.4	1.921	2.805	10.7	19.4
12 27	3 22.53	+7 18.2	1.982	2.755	14.9	20.0	12 27	3 14.95	+23 36.9	2.014	2.814	13.8	19.7
50187	2000 <i>AG</i> ₁₇₆		11 20.2	239°47'	5°8'/17.3	18	206588	2003 <i>WP</i> ₂₂		11 20.3	45°64'	4°8'/23.2	18
10 18	4 10.17	+7 42.5	1.694	2.546	14.3	19.5	10 18	4 11.12	+34 45.7	1.587	2.404	16.8	19.5
10 28	4 4.40	+6 36.9	1.620	2.535	10.9	19.3	10 28	4 5.40	+34 25.4	1.523	2.413	13.2	19.3
11 7	3 56.28	+5 33.5	1.569	2.525	7.6	19.0	11 7	3 56.91	+33 43.0	1.479	2.422	9.3	19.1
11 17	3 46.62	+4 38.3	1.545	2.513	5.8	18.9	11 17	3 46.78	+32 37.9	1.461	2.431	5.7	18.9
11 27	3 36.57	+3 57.6	1.548	2.501	7.4	19.0	11 27	3 36.50	+31 13.7	1.469	2.441	5.2	18.9
12 7	3 27.34	+3 35.6	1.579	2.489	10.9	19.2	12 7	3 27.55	+29 38.5	1.505	2.451	8.2	19.1
12 17	3 19.97	+3 34.3	1.633	2.477	14.5	19.3	12 17	3 21.03	+28 1.9	1.567	2.462	12.0	19.4
12 27	3 15.18	+3 53.0	1.708	2.464	17.6	19.5	12 27	3 17.58	+26 32.9	1.653	2.472	15.5	19.6
129836	1999 <i>RL</i> ₁₆		11 20.3	69°36'	1°2'/20.8	18	176949	2002 <i>XA</i> ₁₈		11 20.3	62°05'	0°8'/19.9	18
10 18	4 12.59	+23 52.8	1.575	2.418	15.6	20.3	10 18	4 9.76	+18 20.3	1.767	2.616	13.9	20.2
10 28	4 6.15	+23 47.4	1.525	2.439	11.6	20.1	10 28	4 3.96	+18 11.6	1.705	2.625	10.2	20.0
11 7	3 57.21	+23 31.7	1.497	2.460	7.0	19.8	11 7	3 55.93	+17 58.5	1.667	2.634	6.0	19.8
11 17	3 46.81	+23 6.2	1.496	2.481	2.3	19.6	11 17	3 46.54	+17 42.4	1.656	2.643	1.6	19.5
11 27	3 36.33	+22 34.0	1.522	2.502	3.3	19.7	11 27	3 36.93	+17 26.0	1.673	2.652	3.3	19.7
12 7	3 27.11	+22 0.1	1.576	2.523	7.8	20.1	12 7	3 28.27	+17 12.5	1.718	2.661	7.7	19.9
12 17	3 20.17	+21 29.4	1.656	2.544	11.9	20.3	12 17	3 21.50	+17 5.1	1.789	2.670	11.5	20.2
12 27	3 16.09	+21 6.6	1.758	2.565	15.2	20.6	12 27	3 17.24	+17 6.2	1.883	2.680	14.8	20.4
282423	2003 <i>UZ</i> ₃₂₃		11 20.3	353°30'	2°1'/21.6	18	358247	2006 <i>SD</i> ₄₀₈		11 20.3	68°61'	0°6'/19.9	18
10 18	4 5.54	+30 0.1	1.240	2.095	18.3	19.2	10 18	4 8.48	+20 9.5	1.834	2.682	13.6	21.2
10 28	4 1.83	+28 48.4	1.170	2.088	13.9	18.9	10 28	4 2.94	+19 37.8	1.771	2.690	9.9	21.0
11 7	3 55.05	+27 10.5	1.120	2.083	8.8	18.6	11 7	3 55.30	+18 59.2	1.732	2.698	5.8	20.8
11 17	3 46.32	+25 9.8	1.094	2.079	3.5	18.3	11 17	3 46.38	+18 16.0	1.720	2.707	1.5	20.5
11 27	3 37.28	+22 55.1	1.094	2.076	3.9	18.3	11 27	3 37.29	+17 32.1	1.736	2.715	3.2	20.7
12 7	3 29.59	+20 39.8	1.121	2.074	9.3	18.7	12 7	3 29.14	+16 52.0	1.781	2.724	7.4	21.0
12 17	3 24.47	+18 36.9	1.171	2.074	14.4	18.9	12 17	3 22.80	+16 19.9	1.853	2.733	11.2	21.2
12 27	3 22.64	+16 55.7	1.242	2.075	18.8	19.2	12 27	3 18.86	+15 58.6	1.947	2.741	14.4	21.4
22162	Leslijohnson		11 20.3	26°86'	1°6'/19.7	18	353310	2010 <i>JW</i> ₁₁₄		11 20.3	204°10'	1°	

EPHEMERIDES

11 20.3

11 20.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
298419	2003 <i>SP</i> ₃₄₆		11 20.3 235°44	3°7/18.1	18		318955	2005 <i>UV</i> ₂₂₆		11 20.3 291°05	1°6/19.2	18	
10 18	4 8.80	+11 32.5	2.010	2.857	12.6	21.6	10 18	4 6.59	+18 9.3	2.038	2.886	12.4	21.0
10 28	4 3.12	+10 40.1	1.929	2.846	9.4	21.4	10 28	4 1.46	+17 16.7	1.963	2.882	9.1	20.8
11 7	3 55.44	+9 46.8	1.874	2.835	6.0	21.2	11 7	3 54.43	+16 17.9	1.912	2.879	5.3	20.5
11 17	3 46.45	+8 56.6	1.847	2.824	3.8	21.0	11 17	3 46.21	+15 16.2	1.890	2.876	1.8	20.3
11 27	3 37.13	+8 14.4	1.848	2.812	5.3	21.1	11 27	3 37.76	+14 16.4	1.897	2.873	3.6	20.4
12 7	3 28.51	+7 44.0	1.879	2.800	8.7	21.3	12 7	3 30.07	+13 23.1	1.933	2.869	7.4	20.7
12 17	3 21.47	+7 28.2	1.935	2.787	12.2	21.5	12 17	3 23.95	+12 40.6	1.995	2.866	11.0	20.9
12 27	3 16.64	+7 27.8	2.013	2.774	15.2	21.7	12 27	3 19.98	+12 11.3	2.081	2.863	14.0	21.1
407024	2009 <i>SL</i> ₄₀		11 20.3 109°35	4°7/22.7	18		415577	2014 <i>QU</i> ₂₇₇		11 20.3 200°73	4°3/22.8	18	
10 18	4 12.74	+33 36.0	2.336	3.130	12.8	20.9	10 18	4 10.71	+33 6.1	2.130	2.935	13.5	20.6
10 28	4 6.04	+34 18.4	2.264	3.138	10.1	20.7	10 28	4 4.72	+33 21.3	2.051	2.934	10.6	20.4
11 7	3 57.17	+34 48.0	2.215	3.147	7.4	20.6	11 7	3 56.47	+33 22.1	1.995	2.933	7.5	20.2
11 17	3 46.89	+35 2.3	2.195	3.155	5.1	20.4	11 17	3 46.75	+33 6.7	1.965	2.933	4.9	20.0
11 27	3 36.26	+35 0.7	2.203	3.163	4.9	20.4	11 27	3 36.69	+32 35.8	1.964	2.932	4.6	20.0
12 7	3 26.42	+34 45.4	2.240	3.171	6.9	20.6	12 7	3 27.47	+31 52.9	1.992	2.931	7.1	20.2
12 17	3 18.31	+34 20.8	2.305	3.179	9.6	20.8	12 17	3 20.07	+31 3.4	2.047	2.930	10.2	20.3
12 27	3 12.63	+33 52.3	2.395	3.187	12.1	20.9	12 27	3 15.19	+30 13.7	2.126	2.929	13.1	20.5
71380	2000 <i>AC</i> ₁₄₈		11 20.3 263°49	2°7/22.0	18		179000	2001 <i>RY</i> ₁₃		11 20.3 172°84	2°9/18.7	18	
10 18	4 7.93	+29 40.8	2.353	3.168	12.0	19.4	10 18	4 7.84	+13 25.0	1.960	2.810	12.7	20.5
10 28	4 2.44	+29 34.1	2.265	3.159	9.3	19.2	10 28	4 2.40	+12 44.5	1.891	2.810	9.4	20.2
11 7	3 55.02	+29 15.5	2.201	3.150	6.2	19.0	11 7	3 54.99	+12 2.6	1.846	2.811	5.7	20.0
11 17	3 46.34	+28 44.6	2.164	3.142	3.3	18.8	11 17	3 46.36	+11 22.9	1.829	2.811	3.0	19.9
11 27	3 37.36	+28 3.1	2.157	3.133	3.3	18.8	11 27	3 37.51	+10 49.2	1.841	2.811	4.6	20.0
12 7	3 29.07	+27 14.6	2.180	3.124	6.2	18.9	12 7	3 29.43	+10 25.2	1.882	2.811	8.1	20.2
12 17	3 22.29	+26 23.7	2.231	3.115	9.4	19.1	12 17	3 22.97	+10 13.3	1.948	2.811	11.6	20.4
12 27	3 17.66	+25 35.6	2.306	3.106	12.3	19.3	12 27	3 18.74	+10 14.6	2.037	2.811	14.5	20.6
127262	2002 <i>JF</i> ₄₈		11 20.3 239°13	2°4/21.3	18		253541	2003 <i>SK</i> ₂₂₉		11 20.3 54°00	0°6/20.1	18	
10 18	4 13.29	+25 49.6	1.958	2.783	13.7	19.9	10 18	4 13.23	+19 18.5	1.190	2.054	18.2	20.1
10 28	4 6.79	+26 14.2	1.870	2.773	10.4	19.6	10 28	4 7.27	+19 10.9	1.141	2.068	13.4	19.8
11 7	3 57.80	+26 29.9	1.806	2.762	6.7	19.4	11 7	3 58.17	+18 56.4	1.114	2.082	7.8	19.6
11 17	3 47.08	+26 35.0	1.770	2.752	3.1	19.1	11 17	3 47.17	+18 36.6	1.110	2.097	1.9	19.3
11 27	3 35.81	+26 29.7	1.763	2.740	3.5	19.2	11 27	3 35.98	+18 15.4	1.132	2.112	4.2	19.5
12 7	3 25.27	+26 16.4	1.785	2.729	7.3	19.4	12 7	3 26.31	+17 57.6	1.179	2.127	9.7	19.8
12 17	3 16.59	+25 59.4	1.834	2.717	11.2	19.6	12 17	3 19.40	+17 47.8	1.250	2.143	14.5	20.2
12 27	3 10.59	+25 43.7	1.907	2.704	14.6	19.8	12 27	3 15.94	+17 49.1	1.341	2.159	18.5	20.5
59371	1999 <i>EY</i> ₆		11 20.3 46°82	2°0/19.4	18		364463	2007 <i>BY</i> ₆₃		11 20.3 343°75	4°1/18.1	18	
10 18	4 10.10	+17 15.9	1.336	2.201	16.6	17.6	10 18	4 6.76	+10 6.8	1.927	2.779	12.8	21.2
10 28	4 4.63	+16 40.1	1.286	2.213	12.1	17.4	10 28	4 1.63	+9 24.6	1.859	2.778	9.5	21.0
11 7	3 56.47	+15 59.1	1.258	2.227	7.1	17.2	11 7	3 54.55	+8 43.9	1.816	2.776	6.2	20.8
11 17	3 46.70	+15 16.8	1.255	2.241	2.4	16.9	11 17	3 46.26	+8 8.7	1.799	2.775	4.1	20.7
11 27	3 36.79	+14 38.5	1.278	2.255	4.6	17.1	11 27	3 37.72	+7 43.1	1.811	2.774	5.5	20.8
12 7	3 28.19	+14 9.3	1.327	2.270	9.5	17.4	12 7	3 29.94	+7 30.2	1.850	2.773	8.8	20.9
12 17	3 21.96	+13 52.8	1.400	2.285	13.8	17.7	12 17	3 23.74	+7 31.5	1.915	2.772	12.1	21.2
12 27	3 18.74	+13 51.1	1.494	2.300	17.5	18.0	12 27	3 19.75	+7 47.2	2.002	2.771	15.0	21.4
228179	2009 <i>TF</i> ₄		11 20.3 17°38	0°3/20.2	18		321276	2009 <i>EV</i> ₄		11 20.3 172°63	3°9/21.9	18	
10 18	4 7.96	+20 37.1	1.063	1.940	18.9	20.0	10 18	4 17.16	+29 53.3	1.670	2.489	16.0	21.9
10 28	4 3.75	+20 21.1	1.013	1.946	13.9	19.8	10 28	4 9.91	+30 12.7	1.596	2.492	12.4	21.6
11 7	3 56.26	+19 55.2	0.982	1.953	8.2	19.5	11 7	3 59.72	+30 17.2	1.546	2.495	8.3	21.4
11 17	3 46.68	+19 22.1	0.974	1.962	2.0	19.1	11 17	3 47.59	+30 4.2	1.521	2.497	4.7	21.2
11 27	3 36.81	+18 46.8	0.990	1.971	4.3	19.3	11 27	3 35.03	+29 34.5	1.524	2.498	4.7	21.2
12 7	3 28.43	+18 15.8	1.030	1.982	10.1	19.7	12 7	3 23.61	+28 52.7	1.556	2.499	8.3	21.4
12 17	3 22.86	+17 54.7	1.092	1.994	15.3	20.0	12 17	3 14.62	+28 5.7	1.614	2.499	12.3	21.7
12 27	3 20.83	+17 47.2	1.172	2.007	19.5	20.3	12 27	3 8.86	+27 21.2	1.694	2.498	15.8	21.9
340874	2007 <i>BE</i> ₇₉		11 20.3 197°99	3°0/21.8	18		265435	2004 <i>VG</i> ₈₅		11 20.3 320°11	0°5/20.6	17	
10 18	4 13.90	+28 42.0	1.901	2.720	14.3	21.4	10 18	4 6.44	+23 6.2	1.994	2.836	12.9	20.1
10 28	4 7.21	+28 50.8	1.820	2.718	11.0	21.2	10 28	4 1.55	+22 43.8	1.912	2.827	9.6	19.9
11 7	3 58.00	+28 46.8	1.763	2.715	7.2	20.9	11 7	3 54.60	+22 12.3	1.853	2.818	5.7	19.6
11 17	3 47.12	+28 28.6	1.733	2.711	3.7	20.7	11 17	3 46.29	+21 33.1	1.822	2.809	1.6	19.4
11 27	3 35.83	+27 57.2	1.732	2.707	3.9	20.7	11 27	3 37.66	+20 49.1	1.819	2.800	2.8	19.4
12 7	3 25.45	+27 16.9	1.759	2.703	7.4	20.9	12 7	3 29.75	+20 4.7	1.846	2.792	6.9	19.7
12 17	3 17.09	+26 33.2	1.814	2.698	11.2	21.1	12 17	3 23.48	+19 24.5	1.898	2.784	10.7	19.9
12 27	3 11.51	+25 52.5	1.892	2.692	14.6	21.4	12 27	3 19.51	+18 52.6	1.974	2.776	14.0	20.1
294238	2007 <i>UB</i> ₃₈		11 20.3 61°74	2°7/21.4	15		400422	2008 <i>CN</i> ₁₀₄		11 20.3 159°90	1°0/20.8	18	
10 18	4 15.82	+26 31.9	1.553	2.387	16.3	20.5	10 18	4 9.95	+23 9.1	2.087	2.920	12.7	21.4
10 28	4 8.50	+26 51.5	1.513	2.420	12.2	20.4	10 28	4 3.98	+23 9.5	2.012	2.922	9.4	21.2
11 7	3 58.58	+26 58.4	1.495	2.452	7.7	20.2	11 7	3 55.96	+23 2.4	1.962	2.924	5.7	21.0
11 17	3 47.20	+26 51.6	1.503	2.485	3.5	20.0	11 17	3 46.63	+22 47.9	1.940	2.926	1.9	20.7
11 27	3 35.86	+26 33.1	1.539	2.517	3.8	20.1	11 27	3 37.01	+22 27.8	1.947	2.927	2.8	20.8
12 7	3 25.97	+26 7.4	1.604	2.550	7.8	20.4	12 7	3 28.17	+22 5.3	1.984	2.929	6.6	21.0
12 17	3 18.54	+25 40.3	1.694	2.581	11.6	20.7	12 17	3 21.00	+21 44.1	2.048	2.930	10.2	21.2
12 27	3 14.14	+25 17.2	1.806	2.613	14.9	21.0	12 27	3 16.14	+21 27.7	2.135	2.931	13.3	21.5
518889	2010 <i>ET</i> ₁₆₃		11 20.3 215°31	2°0/19.3	17		521743	2015 <i>RT</i> _{272</}					

EPHEMERIDES

11 20.3

11 20.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
103210	1999 <i>XK</i> ₂₅₇		11 20.3	7°84	1°8/21.2	18	104879	2000 <i>HS</i> ₁₀₀		11 20.3	44°45	1°9/21.1	18
10 18	4 9.43	+25 51.0	1.607	2.450	15.4	19.1	10 18	4 11.16	+24 32.9	1.570	2.414	15.6	18.9
10 28	4 4.13	+25 38.2	1.537	2.450	11.6	18.9	10 28	4 5.34	+24 46.3	1.513	2.427	11.7	18.7
11 7	3 56.25	+25 12.5	1.489	2.451	7.2	18.6	11 7	3 56.92	+24 49.5	1.479	2.441	7.2	18.5
11 17	3 46.71	+24 34.5	1.467	2.452	2.8	18.4	11 17	3 46.90	+24 42.0	1.470	2.454	2.8	18.3
11 27	3 36.85	+23 47.4	1.473	2.453	3.4	18.4	11 27	3 36.65	+24 25.5	1.489	2.469	3.5	18.4
12 7	3 28.04	+22 56.8	1.506	2.455	7.9	18.7	12 7	3 27.55	+24 4.1	1.535	2.483	7.8	18.7
12 17	3 21.37	+22 8.8	1.564	2.457	12.2	19.0	12 17	3 20.68	+23 42.8	1.606	2.498	11.9	18.9
12 27	3 17.55	+21 29.2	1.645	2.459	15.8	19.2	12 27	3 16.71	+23 26.3	1.700	2.513	15.4	19.2
139801	2001 <i>RL</i> ₁₄		11 20.3	13°55	0°2/20.4	18	429785	2012 <i>HA</i> ₁₈		11 20.3	124°05	5°5/18.3	18
10 18	4 8.12	+22 8.5	1.746	2.594	14.1	20.1	10 18	4 12.50	+ 8 4.9	1.436	2.293	16.1	21.1
10 28	4 2.91	+21 43.8	1.677	2.595	10.4	19.9	10 28	4 6.35	+ 7 30.2	1.377	2.296	12.2	20.8
11 7	3 55.42	+21 10.0	1.631	2.596	6.2	19.6	11 7	3 57.55	+ 7 0.6	1.339	2.299	8.1	20.6
11 17	3 46.50	+20 28.9	1.611	2.598	1.6	19.3	11 17	3 47.07	+ 6 40.9	1.328	2.302	5.5	20.5
11 27	3 37.30	+19 44.3	1.620	2.600	3.1	19.4	11 27	3 36.29	+ 6 35.7	1.343	2.305	7.1	20.6
12 7	3 29.04	+19 1.0	1.656	2.602	7.6	19.7	12 7	3 26.63	+ 6 47.4	1.384	2.307	11.0	20.8
12 17	3 22.67	+18 23.9	1.718	2.605	11.6	20.0	12 17	3 19.20	+ 7 16.3	1.448	2.310	14.9	21.1
12 27	3 18.85	+17 56.8	1.803	2.607	15.0	20.2	12 27	3 14.72	+ 8 0.9	1.533	2.313	18.3	21.3
86170	1999 <i>RJ</i> ₂₁₀		11 20.3	1°24	5°2/23.2	18	492786	2014 <i>QO</i> ₂₃₀		11 20.3	37°69	4°4/17.7	18
10 18	4 9.74	+34 41.8	1.913	2.720	14.7	18.1	10 18	4 5.68	+ 9 19.7	1.985	2.838	12.5	21.0
10 28	4 4.27	+35 1.3	1.837	2.719	11.7	17.9	10 28	4 0.73	+ 8 22.7	1.925	2.843	9.3	20.8
11 7	3 56.32	+35 4.0	1.784	2.719	8.5	17.7	11 7	3 53.98	+ 7 27.6	1.890	2.849	6.2	20.6
11 17	3 46.75	+34 47.7	1.756	2.719	5.8	17.6	11 17	3 46.15	+ 6 39.1	1.882	2.854	4.4	20.5
11 27	3 36.81	+34 12.9	1.755	2.720	5.5	17.5	11 27	3 38.16	+ 6 1.6	1.903	2.860	5.8	20.6
12 7	3 27.81	+33 23.7	1.782	2.720	7.8	17.7	12 7	3 30.95	+ 5 38.5	1.951	2.867	8.8	20.8
12 17	3 20.84	+32 26.4	1.835	2.721	11.0	17.9	12 17	3 25.26	+ 5 31.2	2.024	2.873	11.8	21.0
12 27	3 16.61	+31 28.4	1.911	2.723	14.0	18.1	12 27	3 21.65	+ 5 39.6	2.119	2.880	14.5	21.2
515471	2014 <i>AK</i> ₆		11 20.3	288°58	0°6/20.5	18	243478	2009 <i>SY</i> ₃₂₉		11 20.3	51°48	3°7/18.3	18
10 18	4 11.11	+21 56.8	1.514	2.364	15.8	21.7	10 18	4 6.65	+10 49.8	1.971	2.823	12.6	19.7
10 28	4 5.70	+21 52.7	1.430	2.350	11.8	21.4	10 28	4 1.42	+10 9.6	1.914	2.833	9.3	19.5
11 7	3 57.40	+21 39.7	1.369	2.335	7.1	21.1	11 7	3 54.38	+ 9 30.9	1.882	2.843	5.9	19.3
11 17	3 47.08	+21 18.1	1.334	2.321	2.0	20.8	11 17	3 46.25	+ 8 57.3	1.877	2.854	3.7	19.2
11 27	3 36.11	+20 50.4	1.325	2.306	3.6	20.9	11 27	3 37.98	+ 8 32.5	1.900	2.865	5.1	19.3
12 7	3 26.04	+20 21.1	1.344	2.292	8.8	21.1	12 7	3 30.53	+ 8 19.3	1.952	2.876	8.3	19.5
12 17	3 18.18	+19 55.7	1.387	2.277	13.6	21.4	12 17	3 24.65	+ 8 19.1	2.029	2.887	11.4	19.7
12 27	3 13.44	+19 39.2	1.452	2.263	17.6	21.6	12 27	3 20.89	+ 8 32.1	2.128	2.898	14.2	20.0
380513	2004 <i>FL</i> ₄₇		11 20.3	314°32	2°2/20.9	18	2262	Mitidika		11 20.3	41°45	9°4/24.2	18
10 18	4 13.27	+23 55.3	1.409	2.257	16.8	20.3	10 18	4 18.87	+38 28.2	1.277	2.087	20.5	15.4
10 28	4 7.46	+24 21.6	1.336	2.252	12.7	20.0	10 28	4 11.94	+39 53.8	1.239	2.114	16.8	15.3
11 7	3 58.49	+24 38.5	1.284	2.247	7.9	19.8	11 7	4 1.17	+40 53.4	1.221	2.141	13.0	15.1
11 17	3 47.35	+24 44.3	1.258	2.242	3.1	19.5	11 17	3 48.00	+41 19.7	1.224	2.170	10.1	15.1
11 27	3 35.58	+24 39.4	1.258	2.238	4.0	19.5	11 27	3 34.60	+41 11.1	1.251	2.199	9.5	15.1
12 7	3 24.89	+24 27.4	1.285	2.233	9.0	19.8	12 7	3 23.14	+40 34.0	1.303	2.228	11.3	15.3
12 17	3 16.69	+24 13.5	1.336	2.229	13.7	20.1	12 17	3 15.10	+39 39.1	1.377	2.258	14.3	15.6
12 27	3 11.91	+24 3.7	1.408	2.225	17.8	20.3	12 27	3 11.22	+38 38.4	1.472	2.289	17.2	15.8
56103	1999 <i>BU</i> ₁₉		11 20.3	47°67	5°4/23.2	18	152012	2004 <i>JG</i> ₃₅		11 20.3	95°63	3°3/19.1	18
10 18	4 11.68	+34 34.5	1.696	2.509	16.1	18.2	10 18	4 14.75	+11 20.9	1.704	2.549	14.6	19.9
10 28	4 5.82	+34 48.8	1.632	2.518	12.8	18.0	10 28	4 7.44	+11 5.7	1.658	2.574	10.7	19.7
11 7	3 57.25	+34 44.2	1.590	2.527	9.2	17.8	11 7	3 57.91	+10 52.5	1.636	2.598	6.6	19.5
11 17	3 46.98	+34 18.5	1.571	2.537	6.1	17.7	11 17	3 47.15	+10 43.9	1.641	2.622	3.5	19.4
11 27	3 36.45	+33 33.1	1.580	2.547	5.6	17.7	11 27	3 36.36	+10 42.6	1.675	2.645	5.0	19.6
12 7	3 27.12	+32 33.3	1.616	2.557	8.2	17.9	12 7	3 26.73	+10 50.6	1.738	2.667	8.7	19.8
12 17	3 20.10	+31 27.0	1.678	2.568	11.6	18.1	12 17	3 19.16	+11 8.7	1.826	2.689	12.3	20.1
12 27	3 16.10	+30 22.3	1.763	2.578	14.8	18.3	12 27	3 14.21	+11 37.1	1.938	2.711	15.2	20.3
33890	2000 <i>KQ</i> ₂₄		11 20.3	91°36	1°0/19.9	18	227047	2005 <i>CH</i>		11 20.3	319°06	1°2/19.7	18
10 18	4 13.85	+18 3.7	1.645	2.491	14.9	20.0	10 18	4 6.98	+16 37.7	2.017	2.866	12.5	20.1
10 28	4 6.93	+17 49.8	1.595	2.513	10.9	19.8	10 28	4 1.95	+16 30.4	1.934	2.854	9.2	19.8
11 7	3 57.66	+17 31.1	1.569	2.535	6.3	19.6	11 7	3 54.88	+16 20.5	1.875	2.842	5.4	19.6
11 17	3 47.04	+17 9.7	1.570	2.557	1.7	19.3	11 17	3 46.46	+16 9.5	1.844	2.830	1.7	19.3
11 27	3 36.37	+16 48.6	1.599	2.578	3.6	19.5	11 27	3 37.65	+15 59.6	1.842	2.819	3.3	19.4
12 7	3 26.89	+16 31.5	1.657	2.598	8.0	19.8	12 7	3 29.48	+15 53.6	1.868	2.809	7.3	19.6
12 17	3 19.56	+16 21.6	1.741	2.618	12.0	20.1	12 17	3 22.85	+15 53.9	1.920	2.798	11.0	19.8
12 27	3 14.96	+16 21.2	1.847	2.638	15.2	20.4	12 27	3 18.44	+16 2.3	1.996	2.788	14.2	20.0
511870	2015 <i>GS</i> ₂₇		11 20.3	107°85	0°8/19.9	18	340247	2006 <i>BP</i> ₁₁₈		11 20.3	98°00	0°8/19.9	18
10 18	4 13.54	+18 32.4	1.737	2.580	14.4	22.0	10 18	4 11.24	+19 23.7	1.723	2.570	14.3	20.5
10 28	4 6.68	+18 20.4	1.681	2.597	10.5	21.8	10 28	4 5.06	+18 54.5	1.665	2.583	10.5	20.3
11 7	3 57.53	+18 3.4	1.649	2.614	6.2	21.6	11 7	3 56.64	+18 19.0	1.630	2.597	6.1	20.1
11 17	3 47.03	+17 43.0	1.644	2.631	1.6	21.3	11 17	3 46.87	+17 39.4	1.623	2.610	1.6	19.8
11 27	3 36.39	+17 22.1	1.668	2.647	3.4	21.5	11 27	3 36.96	+16 59.8	1.644	2.623	3.5	20.0
12 7	3 26.86	+17 4.3	1.721	2.663	7.8	21.8	12 7	3 28.11	+16 24.7	1.693	2.635	7.8	20.3
12 17	3 19.37	+16 52.9	1.801	2.678	11.7	22.0	12 17	3 21.25	+15 57.9	1.769	2.648	11.7	20.6
12 27	3 14.53	+16 50.3	1.903	2.693	14.9	22.3	12 27	3 16.97	+15 42.5	1.867	2.660	15.0	20.8
349676	2008 <i>WZ</i> ₇₉		11 20.3	273°72	3°4/18.8	18	184360	2005 <i>JC</i> ₆₈					

EPHEMERIDES

11 20.3

11 20.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
187296	2005 <i>TV</i> ₁₃₉		11 20.3 247°98	1°0/19.8	17		341057	2007 <i>HE</i> ₈		11 20.3 147°06	0°4/20.1	18	
10 18	4 8.40	+17 43.9	2.038	2.883	12.5	21.3	10 18	4 12.12	+20 8.9	1.916	2.755	13.4	22.3
10 28	4 2.86	+17 28.9	1.965	2.882	9.2	21.1	10 28	4 5.62	+19 47.7	1.849	2.763	9.9	22.1
11 7	3 55.35	+17 10.0	1.916	2.882	5.4	20.9	11 7	3 56.98	+19 20.0	1.806	2.771	5.8	21.9
11 17	3 46.58	+16 48.9	1.894	2.881	1.6	20.6	11 17	3 47.01	+18 47.3	1.791	2.778	1.4	21.6
11 27	3 37.53	+16 28.2	1.902	2.880	3.2	20.7	11 27	3 36.83	+18 12.9	1.806	2.785	3.1	21.7
12 7	3 29.22	+16 11.1	1.939	2.880	7.1	21.0	12 7	3 27.58	+17 40.6	1.850	2.791	7.3	22.0
12 17	3 22.51	+16 0.3	2.003	2.879	10.7	21.2	12 17	3 20.17	+17 14.5	1.920	2.797	11.1	22.2
12 27	3 18.03	+15 58.0	2.090	2.878	13.8	21.4	12 27	3 15.22	+16 57.6	2.014	2.802	14.2	22.5
350016	2010 <i>JA</i> ₃₈		11 20.3 251°68	1°8/19.4	18		269501	2009 <i>UG</i> ₇₂		11 20.3 299°75	2°3/18.8	17	
10 18	4 9.69	+16 31.1	1.896	2.743	13.2	21.5	10 18	4 5.50	+15 56.9	2.140	2.990	11.8	20.0
10 28	4 4.02	+16 0.0	1.813	2.731	9.8	21.2	10 28	4 0.68	+15 0.6	2.060	2.980	8.7	19.8
11 7	3 56.15	+15 24.6	1.753	2.719	5.8	21.0	11 7	3 54.05	+13 59.8	2.005	2.970	5.2	19.6
11 17	3 46.80	+14 47.4	1.721	2.707	2.1	20.7	11 17	3 46.28	+12 57.9	1.977	2.961	2.4	19.4
11 27	3 37.04	+14 12.2	1.718	2.694	3.9	20.8	11 27	3 38.24	+11 59.8	1.979	2.951	4.0	19.5
12 7	3 28.02	+13 43.1	1.744	2.680	8.1	21.0	12 7	3 30.86	+11 9.8	2.011	2.942	7.6	19.7
12 17	3 20.69	+13 23.7	1.795	2.667	12.0	21.2	12 17	3 24.91	+10 31.6	2.068	2.933	10.9	19.9
12 27	3 15.79	+13 16.2	1.869	2.653	15.3	21.4	12 27	3 20.99	+10 7.4	2.149	2.924	13.9	20.1
410992	2009 <i>UG</i> ₃₂		11 20.3 22°33	1°4/19.3	18		367445	2008 <i>SM</i> ₂₅₉		11 20.3 121°91	0°6/20.7	18	
10 18	4 5.98	+18 33.9	2.157	3.002	11.9	21.1	10 18	4 8.16	+22 21.3	2.721	3.546	10.3	21.8
10 28	4 0.94	+17 40.1	2.085	3.003	8.7	20.9	10 28	4 2.22	+22 17.8	2.654	3.560	7.6	21.6
11 7	3 54.14	+16 40.2	2.038	3.004	5.1	20.7	11 7	3 54.78	+22 8.6	2.612	3.573	4.5	21.4
11 17	3 46.26	+15 37.6	2.020	3.006	1.7	20.4	11 17	3 46.44	+21 54.3	2.600	3.586	1.3	21.2
11 27	3 38.21	+14 36.5	2.031	3.007	3.4	20.6	11 27	3 37.96	+21 36.5	2.619	3.599	2.2	21.3
12 7	3 30.89	+13 41.8	2.072	3.008	7.0	20.8	12 7	3 30.12	+21 17.6	2.669	3.611	5.3	21.6
12 17	3 25.05	+12 57.1	2.139	3.010	10.4	21.0	12 17	3 23.56	+21 0.0	2.747	3.623	8.1	21.8
12 27	3 21.23	+12 25.0	2.230	3.011	13.2	21.2	12 27	3 18.76	+20 46.4	2.851	3.635	10.6	21.9
266035	2006 <i>GJ</i> ₅₃		11 20.3 271°15	1°3/19.7	18		223322	2003 <i>QJ</i> ₃₄		11 20.3 174°57	5°2/23.7	18	
10 18	4 9.79	+14 54.1	2.337	3.175	11.4	20.5	10 18	4 11.38	+37 14.6	2.430	3.210	12.7	20.2
10 28	4 3.80	+15 4.3	2.247	3.160	8.4	20.2	10 28	4 5.13	+37 38.2	2.350	3.211	10.3	20.0
11 7	3 55.92	+14 14.3	2.181	3.145	5.0	20.0	11 7	3 56.74	+37 46.6	2.293	3.212	7.8	19.9
11 17	3 46.75	+15 24.8	2.145	3.130	1.7	19.7	11 17	3 46.97	+37 37.5	2.262	3.213	5.8	19.8
11 27	3 37.15	+15 37.0	2.138	3.115	3.1	19.8	11 27	3 36.87	+37 10.8	2.259	3.213	5.4	19.7
12 7	3 28.08	+15 52.2	2.162	3.100	6.7	20.0	12 7	3 27.56	+36 29.6	2.285	3.213	7.0	19.8
12 17	3 20.36	+16 11.8	2.214	3.084	10.1	20.2	12 17	3 19.96	+35 38.9	2.339	3.213	9.5	20.0
12 27	3 14.67	+16 37.2	2.291	3.069	13.0	20.4	12 27	3 14.72	+34 44.7	2.418	3.213	11.9	20.2
56277	1999 <i>JU</i> ₁₂₉		11 20.3 246°61	3°2/18.1	18		148269	2000 <i>FX</i> ₆₆		11 20.3 228°54	1°0/20.8	18	
10 18	4 7.37	+12 23.5	2.358	3.201	11.1	20.5	10 18	4 12.90	+23 22.0	1.850	2.684	14.0	21.8
10 28	4 1.91	+11 27.0	2.270	3.185	8.3	20.3	10 28	4 6.57	+23 14.7	1.764	2.675	10.5	21.5
11 7	3 54.74	+10 28.6	2.207	3.168	5.2	20.1	11 7	3 57.75	+22 58.1	1.703	2.664	6.4	21.3
11 17	3 46.43	+9 31.7	2.174	3.151	3.2	19.9	11 17	3 47.26	+22 32.3	1.668	2.654	2.0	21.0
11 27	3 37.82	+8 40.8	2.170	3.134	4.6	20.0	11 27	3 36.29	+21 59.6	1.662	2.642	3.1	21.0
12 7	3 29.77	+7 59.7	2.196	3.116	7.7	20.1	12 7	3 26.13	+21 24.0	1.686	2.630	7.6	21.3
12 17	3 23.03	+7 31.2	2.249	3.098	10.8	20.3	12 17	3 17.89	+20 50.7	1.736	2.618	11.7	21.5
12 27	3 18.19	+7 16.9	2.325	3.079	13.6	20.5	12 27	3 12.35	+20 24.4	1.809	2.605	15.3	21.7
352277	2007 <i>TZ</i> ₃₃₇		11 20.3 30°66	2°4/19.5	18		422037	2014 <i>QN</i> ₃₅₁		11 20.3 144°63	1°6/21.3	18	
10 18	4 9.86	+14 34.6	1.308	2.176	16.7	19.8	10 18	4 9.81	+25 46.2	2.599	3.416	11.0	21.6
10 28	4 4.56	+14 27.3	1.261	2.189	12.2	19.5	10 28	4 3.57	+25 52.5	2.525	3.425	8.2	21.5
11 7	3 56.54	+14 19.4	1.235	2.203	7.3	19.3	11 7	3 55.65	+25 51.0	2.478	3.433	5.2	21.3
11 17	3 46.88	+14 13.3	1.233	2.219	2.8	19.1	11 17	3 46.68	+25 41.4	2.459	3.441	2.2	21.1
11 27	3 37.05	+14 12.3	1.258	2.235	4.7	19.3	11 27	3 37.51	+25 24.9	2.470	3.448	2.6	21.1
12 7	3 28.49	+14 18.9	1.308	2.252	9.5	19.6	12 7	3 29.00	+25 4.0	2.512	3.455	5.5	21.3
12 17	3 22.30	+14 35.2	1.382	2.269	13.8	19.9	12 17	3 21.89	+24 41.8	2.583	3.462	8.5	21.5
12 27	3 19.14	+15 1.8	1.477	2.288	17.4	20.2	12 27	3 16.71	+24 21.8	2.679	3.468	11.0	21.7
460175	2014 <i>QU</i> ₃₁		11 20.3 37°01	2°1/19.5	18		288343	2004 <i>BG</i> ₁₁₄		11 20.3 274°84	6°9/23.3	17	
10 18	4 9.52	+12 58.7	1.944	2.792	12.9	20.5	10 18	4 14.70	+37 21.7	1.978	2.765	15.0	20.1
10 28	4 3.65	+13 8.1	1.883	2.801	9.5	20.3	10 28	4 8.34	+38 16.5	1.887	2.751	12.4	19.9
11 7	3 55.79	+13 18.8	1.846	2.811	5.7	20.1	11 7	3 59.05	+38 55.4	1.817	2.736	9.6	19.7
11 17	3 46.69	+13 31.9	1.837	2.821	2.4	19.9	11 17	3 47.64	+39 13.4	1.773	2.721	7.4	19.6
11 27	3 37.37	+13 48.8	1.857	2.832	3.8	20.1	11 27	3 35.45	+39 8.1	1.756	2.705	7.0	19.5
12 7	3 28.87	+14 10.7	1.906	2.843	7.5	20.3	12 7	3 24.02	+38 41.4	1.766	2.690	9.0	19.6
12 17	3 22.05	+14 38.5	1.981	2.854	11.0	20.5	12 17	3 14.71	+37 59.1	1.802	2.675	11.9	19.7
12 27	3 17.51	+15 12.7	2.080	2.866	13.9	20.8	12 27	3 8.50	+37 9.4	1.861	2.659	14.8	19.9
373254	2012 <i>GB</i> ₃₁		11 20.3 152°49	2°0/21.1	17		32599	2001 <i>QL</i> ₁₆₀		11 20.3 28°45	1°1/20.9	18	
10 18	4 16.44	+24 47.7	1.719	2.548	15.1	21.3	10 18	4 9.38	+23 38.7	1.706	2.551	14.6	19.3
10 28	4 9.18	+25 3.7	1.650	2.556	11.4	21.1	10 28	4 3.97	+23 33.3	1.639	2.555	10.9	19.1
11 7	3 59.24	+25 9.7	1.605	2.563	7.1	20.9	11 7	3 56.16	+23 18.3	1.595	2.559	6.6	18.9
11 17	3 47.58	+25 4.6	1.586	2.570	2.8	20.6	11 17	3 46.84	+22 54.4	1.577	2.563	2.2	18.6
11 27	3 35.57	+24 49.5	1.597	2.576	3.5	20.7	11 27	3 37.22	+22 24.0	1.588	2.568	3.1	18.7
12 7	3 24.65	+24 28.1	1.636	2.581	7.8	21.0	12 7	3 28.58	+21 51.6	1.625	2.573	7.5	18.9
12 17	3 15.95	+24 5.4	1.702	2.586	11.9	21.2	12 17	3 21.92	+21 22.0	1.689	2.579	11.6	19.2
12 27	3 10.22	+23 46.7	1.791	2.590	15.3	21.5	12 27	3 17.94	+20 59.4	1.775	2.584	15.0	19.4
218156	2002 <i>RB</i> ₁₄₈		11 20.3 104°05	1°0/19.8	17		48710	1996 <i>LB</i>					

EPHEMERIDES

11 20.3

11 20.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
161437	2003 <i>WJ</i> ₁₇₀		11 20.3	51°02'	6°3'/16.6	18	351012	2003 <i>QF</i> ₄₃		11 20.3	22°88'	4°3'/22.0	18
10 18	4 9.34	+10 10.8	1.408	2.272	15.9	18.8	10 18	4 8.88	+28 40.0	1.040	1.905	20.2	19.7
10 28	4 3.68	+8 6.7	1.375	2.298	11.9	18.6	10 28	4 4.63	+29 3.2	1.001	1.922	15.5	19.5
11 7	3 55.78	+6 5.7	1.366	2.325	8.1	18.5	11 7	3 56.91	+29 7.3	0.980	1.941	10.2	19.2
11 17	3 46.69	+4 17.3	1.384	2.352	6.3	18.5	11 17	3 47.07	+28 50.8	0.981	1.961	5.3	19.1
11 27	3 37.74	+2 50.3	1.428	2.379	8.2	18.6	11 27	3 37.08	+28 16.6	1.005	1.983	5.3	19.1
12 7	3 30.10	+1 50.1	1.499	2.407	11.5	18.9	12 7	3 28.82	+27 32.3	1.053	2.007	9.7	19.5
12 17	3 24.60	+1 17.8	1.592	2.435	14.9	19.2	12 17	3 23.59	+26 46.7	1.123	2.032	14.4	19.8
12 27	3 21.72	+1 11.1	1.705	2.462	17.6	19.4	12 27	3 22.04	+26 7.7	1.213	2.058	18.3	20.1
290271	2005 <i>SV</i> ₁₄₃		11 20.3	275°30'	0°5'/20.6	17	458644	2011 <i>GN</i> ₃₅		11 20.3	265°79'	1°6'/21.4	18
10 18	4 9.61	+21 24.4	2.037	2.875	12.8	21.4	10 18	4 7.40	+26 15.6	2.494	3.317	11.2	21.4
10 28	4 3.93	+21 29.2	1.954	2.867	9.5	21.2	10 28	4 2.04	+26 8.8	2.403	3.305	8.5	21.2
11 7	3 56.11	+21 28.0	1.896	2.859	5.7	20.9	11 7	3 54.89	+25 53.0	2.336	3.292	5.4	21.0
11 17	3 46.86	+21 21.0	1.865	2.851	1.6	20.6	11 17	3 46.57	+25 28.3	2.297	3.279	2.3	20.7
11 27	3 37.20	+21 9.8	1.863	2.843	2.8	20.7	11 27	3 37.91	+24 56.3	2.288	3.267	2.6	20.7
12 7	3 28.24	+20 57.0	1.890	2.835	6.9	21.0	12 7	3 29.84	+24 20.0	2.309	3.254	5.8	20.9
12 17	3 20.92	+20 45.9	1.945	2.827	10.6	21.2	12 17	3 23.11	+23 43.2	2.358	3.241	9.0	21.1
12 27	3 15.94	+20 39.8	2.022	2.819	13.9	21.4	12 27	3 18.36	+23 9.9	2.432	3.227	11.8	21.3
56113	1999 <i>CQ</i> ₅		11 20.3	319°38'	3°3'/21.4	18	457887	2009 <i>SG</i> ₃₅₀		11 20.3	8°66'	0°7'/20.6	17
10 18	4 12.06	+26 5.8	1.399	2.245	17.0	18.1	10 18	4 8.15	+21 35.5	1.813	2.659	13.7	21.5
10 28	4 6.80	+26 40.3	1.320	2.234	13.1	17.8	10 28	4 2.99	+21 43.3	1.743	2.660	10.2	21.3
11 7	3 58.31	+27 4.0	1.263	2.222	8.5	17.5	11 7	3 55.59	+21 44.7	1.698	2.662	6.1	21.1
11 17	3 47.49	+27 14.0	1.230	2.211	4.1	17.2	11 17	3 46.75	+21 39.8	1.678	2.665	1.8	20.8
11 27	3 35.89	+27 9.9	1.223	2.201	4.5	17.2	11 27	3 37.58	+21 30.4	1.687	2.668	2.9	20.9
12 7	3 25.29	+26 55.0	1.242	2.191	9.2	17.5	12 7	3 29.25	+21 19.5	1.724	2.671	7.2	21.1
12 17	3 17.17	+26 35.2	1.285	2.181	13.9	17.7	12 17	3 22.74	+21 10.4	1.787	2.675	11.1	21.4
12 27	3 12.55	+26 17.4	1.349	2.173	18.0	18.0	12 27	3 18.71	+21 6.5	1.873	2.680	14.4	21.6
88820	2001 <i>SZ</i> ₁₅₃		11 20.3	118°86'	2°2'/19.1	18	254547	2005 <i>EZ</i> ₂₁₇		11 20.3	309°28'	3°8'/19.1	18
10 18	4 8.00	+15 48.7	1.980	2.829	12.7	19.7	10 18	4 11.60	+12 29.4	1.268	2.134	17.2	20.0
10 28	4 2.55	+15 5.9	1.913	2.832	9.3	19.5	10 28	4 6.33	+12 10.4	1.197	2.124	12.9	19.7
11 7	3 55.16	+14 19.7	1.870	2.836	5.5	19.3	11 7	3 57.96	+11 52.2	1.147	2.114	8.0	19.4
11 17	3 46.59	+13 33.3	1.855	2.839	2.3	19.1	11 17	3 47.42	+11 38.5	1.122	2.105	4.0	19.1
11 27	3 37.82	+12 50.8	1.869	2.842	4.0	19.2	11 27	3 36.25	+11 33.7	1.122	2.095	6.0	19.2
12 7	3 29.85	+12 16.2	1.911	2.846	7.7	19.4	12 7	3 26.14	+11 41.2	1.147	2.087	11.0	19.5
12 17	3 23.50	+11 52.7	1.980	2.849	11.2	19.7	12 17	3 18.48	+12 3.1	1.195	2.078	15.9	19.7
12 27	3 19.36	+11 41.8	2.072	2.852	14.2	19.9	12 27	3 14.18	+12 39.7	1.263	2.070	20.0	20.0
411559	2011 <i>CH</i> ₇₅		11 20.3	325°52'	10°1'/26.1	17	338439	2003 <i>ER</i> ₁₅		11 20.3	273°95'	1°3'/20.9	18
10 18	4 16.20	+48 34.9	2.177	2.900	15.7	20.5	10 18	4 11.44	+24 39.6	1.672	2.512	15.0	21.3
10 28	4 9.68	+49 47.5	2.096	2.894	13.8	20.3	10 28	4 5.86	+24 23.4	1.580	2.493	11.4	21.1
11 7	3 59.95	+50 38.9	2.036	2.888	12.0	20.2	11 7	3 57.54	+23 55.0	1.511	2.473	7.0	20.8
11 17	3 47.91	+51 2.6	1.998	2.882	10.6	20.1	11 17	3 47.31	+23 14.6	1.468	2.454	2.4	20.4
11 27	3 35.09	+50 55.3	1.984	2.877	10.1	20.0	11 27	3 36.44	+22 25.0	1.453	2.434	3.4	20.5
12 7	3 23.25	+50 18.7	1.995	2.872	10.8	20.1	12 7	3 26.39	+21 31.7	1.466	2.414	8.2	20.7
12 17	3 13.86	+49 19.1	2.031	2.867	12.3	20.2	12 17	3 18.39	+20 41.1	1.505	2.393	12.8	20.9
12 27	3 7.92	+48 5.7	2.088	2.863	14.2	20.3	12 27	3 13.32	+19 59.5	1.566	2.373	16.8	21.1
298504	2003 <i>VD</i> ₇		11 20.3	331°39'	0°7'/20.6	18	445699	2011 <i>UB</i> ₁₈₄		11 20.3	5°57'	3°6'/18.9	17
10 18	4 9.53	+21 32.3	1.503	2.357	15.7	20.6	10 18	4 7.24	+12 54.7	1.423	2.291	15.6	20.7
10 28	4 4.54	+21 40.6	1.426	2.347	11.7	20.3	10 28	4 2.65	+12 22.5	1.363	2.291	11.6	20.5
11 7	3 56.77	+21 41.6	1.372	2.338	7.1	20.1	11 7	3 55.51	+11 50.3	1.324	2.291	7.1	20.2
11 17	3 47.08	+21 35.1	1.342	2.329	2.0	19.7	11 17	3 46.76	+11 21.9	1.311	2.293	3.7	20.0
11 27	3 36.82	+21 23.0	1.340	2.321	3.5	19.8	11 27	3 37.68	+11 2.2	1.324	2.296	5.5	20.2
12 7	3 27.48	+21 9.1	1.364	2.313	8.5	20.1	12 7	3 29.63	+10 54.8	1.362	2.299	9.8	20.4
12 17	3 20.31	+20 57.6	1.413	2.306	13.1	20.3	12 17	3 23.68	+11 1.8	1.424	2.303	14.0	20.7
12 27	3 16.17	+20 53.0	1.483	2.300	17.0	20.6	12 27	3 20.54	+11 23.6	1.506	2.309	17.5	20.9
225240	2009 <i>QY</i> ₈		11 20.3	32°24'	5°8'/17.9	18	35684	1999 <i>BO</i> ₅		11 20.3	258°86'	5°3'/22.8	18
10 18	4 7.74	+4 34.3	1.796	2.646	13.7	19.5	10 18	4 13.87	+33 2.9	1.603	2.421	16.6	17.0
10 28	4 2.40	+4 5.5	1.743	2.655	10.5	19.3	10 28	4 7.80	+33 25.9	1.529	2.420	13.1	16.8
11 7	3 55.08	+3 44.6	1.714	2.665	7.5	19.1	11 7	3 58.71	+33 31.2	1.477	2.419	9.3	16.6
11 17	3 46.58	+3 35.4	1.711	2.676	5.8	19.1	11 17	3 47.60	+33 15.5	1.449	2.418	6.0	16.4
11 27	3 37.93	+3 41.3	1.736	2.687	7.0	19.2	11 27	3 35.99	+32 39.1	1.447	2.417	5.7	16.4
12 7	3 30.15	+4 3.2	1.787	2.698	9.8	19.4	12 7	3 25.52	+31 47.0	1.473	2.415	8.7	16.6
12 17	3 24.08	+4 40.6	1.863	2.710	12.8	19.6	12 17	3 17.51	+30 47.1	1.524	2.414	12.6	16.8
12 27	3 20.28	+5 31.5	1.960	2.723	15.5	19.8	12 27	3 12.78	+29 48.2	1.598	2.413	16.1	17.0
162286	1999 <i>VB</i> ₁₀₂		11 20.3	16°54'	0°4'/20.2	18	12370	<i>Kageyasu</i>		11 20.3	225°57'	1°4'/19.7	18
10 18	4 10.25	+19 18.3	1.600	2.452	15.0	19.9	10 18	4 12.23	+18 6.9	1.703	2.550	14.5	18.4
10 28	4 4.73	+19 12.3	1.533	2.454	11.0	19.7	10 28	4 6.14	+17 37.1	1.624	2.543	10.7	18.2
11 7	3 56.69	+19 0.6	1.488	2.455	6.5	19.4	11 7	3 57.54	+17 1.2	1.569	2.535	6.3	17.9
11 17	3 47.03	+18 44.5	1.470	2.457	1.6	19.1	11 17	3 47.29	+16 21.5	1.540	2.526	1.9	17.6
11 27	3 37.01	+18 26.7	1.479	2.459	3.4	19.2	11 27	3 36.60	+15 42.1	1.540	2.517	3.9	17.7
12 7	3 27.98	+18 10.9	1.516	2.462	8.2	19.5	12 7	3 26.78	+15 7.7	1.568	2.508	8.5	18.0
12 17	3 21.01	+18 0.8	1.578	2.464	12.4	19.8	12 17	3 18.95	+14 42.6	1.622	2.498	12.8	18.2
12 27	3 16.83	+17 59.6	1.662	2.467	16.0	20.0	12 27	3 13.85	+14 30.0	1.698	2.488	16.4	18.4
297071	2010 <i>JQ</i> ₇₅		11 20.3	323°54'	4°8'/17.8	18	108621	2001 <i>MB</i> ₂₇		1			

EPHEMERIDES

11 20.3

11 20.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
301235	2009 <i>BE</i> ₃₄		11 20.3 203°41'	1.5°/21.1	18		66016	1998 <i>QX</i> ₂₇		11 20.4 39°13'	4.3°/22.8	18	
10 18	4 11.23	+24 36.3	1.938	2.770	13.6	21.8	10 18	4 9.81	+32 34.4	1.898	2.712	14.5	18.5
10 28	4 5.22	+24 35.9	1.861	2.769	10.2	21.6	10 28	4 4.25	+32 44.2	1.833	2.723	11.4	18.3
11 7	3 56.92	+24 26.1	1.807	2.767	6.3	21.4	11 7	3 56.35	+32 38.4	1.790	2.733	7.9	18.1
11 17	3 47.14	+24 6.9	1.780	2.765	2.3	21.1	11 17	3 47.01	+32 15.7	1.774	2.744	4.9	18.0
11 27	3 36.99	+23 40.0	1.782	2.762	3.0	21.2	11 27	3 37.44	+31 37.6	1.785	2.755	4.6	18.0
12 7	3 27.68	+23 9.2	1.814	2.760	7.1	21.4	12 7	3 28.88	+30 48.6	1.824	2.766	7.3	18.1
12 17	3 20.19	+22 39.1	1.872	2.757	10.9	21.6	12 17	3 22.29	+29 54.8	1.889	2.778	10.6	18.4
12 27	3 15.23	+22 14.1	1.954	2.754	14.2	21.9	12 27	3 18.33	+29 2.7	1.978	2.790	13.6	18.6
444548	2006 <i>SM</i> ₂₉₄		11 20.3 3°72'	1°3'/19.7	17		115826	2003 <i>UT</i> ₂₅₂		11 20.4 347°65'	0°2'/20.5	17	
10 18	4 5.40	+19 18.2	1.321	2.192	16.4	21.0	10 18	4 6.37	+21 17.0	1.830	2.679	13.5	19.4
10 28	4 1.53	+18 40.4	1.260	2.191	12.0	20.7	10 28	4 1.75	+21 9.2	1.754	2.673	10.0	19.2
11 7	3 54.95	+17 54.3	1.221	2.191	7.1	20.5	11 7	3 54.94	+20 54.4	1.701	2.667	6.0	19.0
11 17	3 46.65	+17 3.7	1.206	2.193	2.0	20.1	11 17	3 46.68	+20 33.7	1.674	2.661	1.6	18.7
11 27	3 38.02	+16 14.2	1.216	2.196	4.2	20.3	11 27	3 38.06	+20 9.6	1.676	2.657	2.9	18.7
12 7	3 30.50	+15 32.1	1.252	2.200	9.3	20.6	12 7	3 30.21	+19 45.7	1.706	2.653	7.3	19.0
12 17	3 25.22	+15 2.4	1.311	2.205	13.9	20.9	12 17	3 24.09	+19 25.9	1.761	2.650	11.2	19.2
12 27	3 22.89	+14 48.1	1.391	2.211	17.8	21.2	12 27	3 20.40	+19 13.5	1.839	2.647	14.6	19.5
402292	2005 <i>SS</i> ₂₀₀		11 20.3 320°21'	3°1'/21.6	17		58098	Quirrenbach		11 20.4 8°24'	6°3'/20.1	18	
10 18	4 11.10	+27 10.3	1.874	2.703	14.1	21.0	10 18	4 30.35	+20 23.0	0.910	1.766	23.2	17.2
10 28	4 5.39	+27 42.8	1.793	2.696	10.8	20.8	10 28	4 22.37	+23 33.5	0.848	1.766	17.9	16.9
11 7	3 57.17	+28 5.5	1.735	2.689	7.1	20.6	11 7	4 8.76	+26 53.2	0.806	1.766	11.8	16.6
11 17	3 47.25	+28 16.4	1.703	2.682	3.7	20.3	11 17	3 50.52	+30 3.8	0.789	1.768	6.7	16.3
11 27	3 36.79	+28 15.4	1.700	2.675	3.9	20.4	11 27	3 30.26	+32 45.2	0.798	1.770	8.2	16.4
12 7	3 27.10	+28 4.8	1.724	2.669	7.5	20.6	12 7	3 11.47	+34 47.1	0.833	1.773	13.9	16.7
12 17	3 19.32	+27 49.1	1.776	2.663	11.2	20.8	12 17	2 57.12	+36 12.8	0.889	1.776	19.5	17.1
12 27	3 14.23	+27 33.2	1.850	2.658	14.5	21.0	12 27	2 48.87	+37 14.7	0.964	1.781	24.1	17.4
413315	2003 <i>UL</i> ₃₅₀		11 20.3 324°32'	2°0'/21.2	17		225456	2000 <i>EK</i> ₂₃		11 20.4 11°58'	1°1'/19.8	18	
10 18	4 9.37	+24 29.3	1.981	2.815	13.2	20.9	10 18	4 5.97	+18 18.5	1.591	2.452	14.6	19.8
10 28	4 3.97	+24 55.6	1.896	2.805	10.0	20.7	10 28	4 1.55	+17 57.2	1.530	2.456	10.7	19.5
11 7	3 56.28	+25 14.5	1.835	2.794	6.3	20.4	11 7	3 54.82	+17 30.8	1.492	2.461	6.3	19.3
11 17	3 47.02	+25 24.9	1.801	2.784	2.7	20.2	11 17	3 46.64	+17 1.7	1.480	2.467	1.8	19.0
11 27	3 37.25	+25 27.1	1.795	2.774	3.2	20.2	11 27	3 38.22	+16 33.7	1.495	2.474	3.6	19.2
12 7	3 28.16	+25 23.2	1.819	2.765	7.0	20.4	12 7	3 30.75	+16 10.8	1.537	2.482	8.1	19.5
12 17	3 20.77	+25 16.5	1.868	2.756	10.8	20.6	12 17	3 25.20	+15 56.6	1.603	2.491	12.2	19.7
12 27	3 15.85	+25 11.2	1.942	2.747	14.0	20.8	12 27	3 22.22	+15 53.4	1.691	2.501	15.6	20.0
256910	2008 <i>DW</i> ₈₂		11 20.3 162°47'	0°3'/20.5	18		483523	2003 <i>SR</i> ₁₀₀		11 20.4 14°87'	2°3'/18.9	17	
10 18	4 9.41	+21 24.7	2.067	2.904	12.6	20.6	10 18	4 3.70	+22 16.1	1.055	1.937	18.7	19.6
10 28	4 3.69	+21 18.2	1.992	2.905	9.3	20.4	10 28	4 0.56	+20 18.7	1.008	1.945	13.6	19.3
11 7	3 55.94	+21 5.3	1.942	2.906	5.6	20.2	11 7	3 54.42	+18 4.3	0.982	1.954	7.9	19.1
11 17	3 46.90	+20 46.7	1.920	2.907	1.5	19.9	11 17	3 46.53	+15 42.9	0.979	1.966	2.6	18.8
11 27	3 37.57	+20 24.5	1.927	2.908	2.7	20.0	11 27	3 38.56	+13 28.6	1.002	1.979	5.5	19.0
12 7	3 29.01	+20 2.0	1.964	2.908	6.7	20.3	12 7	3 32.05	+11 34.2	1.048	1.994	11.0	19.4
12 17	3 22.08	+19 42.6	2.027	2.909	10.3	20.5	12 17	3 28.09	+10 8.0	1.118	2.011	15.9	19.7
12 27	3 17.41	+19 29.5	2.114	2.909	13.4	20.7	12 27	3 27.27	+9 12.6	1.206	2.029	19.8	20.0
133786	2003 <i>WD</i> ₁₁₇		11 20.4 23°13'	1°3'/20.9	18		397280	2006 <i>SW</i> ₆		11 20.4 90°08'	5°2'/23.7	18	
10 18	4 10.05	+22 25.8	1.947	2.785	13.3	19.1	10 18	4 13.90	+36 12.8	1.931	2.726	15.1	20.9
10 28	4 4.30	+22 55.0	1.879	2.790	9.9	18.9	10 28	4 7.18	+36 14.3	1.870	2.743	12.0	20.8
11 7	3 56.37	+23 18.2	1.835	2.796	6.0	18.7	11 7	3 58.02	+35 56.9	1.830	2.761	8.7	20.6
11 17	3 47.03	+23 34.5	1.818	2.803	2.2	18.5	11 17	3 47.43	+35 18.9	1.817	2.778	5.9	20.5
11 27	3 37.35	+23 44.4	1.830	2.810	2.9	18.6	11 27	3 36.75	+34 22.3	1.832	2.795	5.4	20.5
12 7	3 28.48	+23 49.8	1.871	2.817	6.8	18.8	12 7	3 27.25	+33 12.6	1.875	2.812	7.6	20.7
12 17	3 21.37	+23 53.6	1.938	2.825	10.5	19.1	12 17	3 19.94	+31 57.2	1.945	2.829	10.6	20.9
12 27	3 16.69	+23 59.1	2.029	2.833	13.6	19.3	12 27	3 15.41	+30 43.8	2.039	2.845	13.4	21.1
169057	2001 <i>FN</i> ₁₁₆		11 20.4 195°44'	5°4'/22.6	18		469905	2005 <i>WF</i> ₁₇₆		11 20.4 16°79'	2°3'/19.4	18	
10 18	4 15.57	+33 15.1	1.940	2.742	14.7	20.4	10 18	4 9.27	+13 13.6	1.949	2.797	12.9	20.8
10 28	4 8.77	+34 5.9	1.862	2.741	11.7	20.2	10 28	4 3.62	+13 12.2	1.880	2.799	9.5	20.6
11 7	3 59.23	+34 42.8	1.806	2.740	8.5	20.0	11 7	3 55.93	+13 11.4	1.836	2.800	5.7	20.4
11 17	3 47.80	+35 1.9	1.777	2.739	5.9	19.8	11 17	3 46.94	+13 12.9	1.818	2.802	2.5	20.2
11 27	3 35.79	+35 1.8	1.775	2.737	5.7	19.8	11 27	3 37.66	+13 18.7	1.830	2.804	3.9	20.3
12 7	3 24.67	+34 44.7	1.802	2.736	8.1	19.9	12 7	3 29.14	+13 30.6	1.870	2.807	7.7	20.5
12 17	3 15.65	+34 16.1	1.856	2.734	11.3	20.1	12 17	3 22.26	+13 49.9	1.937	2.809	11.2	20.8
12 27	3 9.58	+33 43.0	1.933	2.732	14.3	20.3	12 27	3 17.66	+14 17.2	2.027	2.812	14.2	21.0
58746	1998 <i>FS</i> ₃		11 20.4 206°14'	0°1'/20.4	18		309974	2009 <i>HY</i> ₅₇		11 20.4 209°74'	1°9'/21.5	18	
10 18	4 9.02	+21 8.4	2.220	3.056	12.0	20.5	10 18	4 10.43	+26 41.3	2.109	2.934	12.9	21.5
10 28	4 3.30	+20 56.6	2.141	3.053	8.8	20.3	10 28	4 4.51	+26 33.5	2.028	2.931	9.8	21.3
11 7	3 55.68	+20 38.5	2.087	3.051	5.3	20.1	11 7	3 56.48	+26 14.9	1.971	2.927	6.2	21.1
11 17	3 46.84	+20 15.2	2.061	3.048	1.4	19.8	11 17	3 47.09	+25 45.5	1.941	2.924	2.7	20.9
11 27	3 37.72	+19 48.9	2.065	3.045	2.6	19.9	11 27	3 37.37	+25 7.3	1.941	2.920	3.0	20.9
12 7	3 29.29	+19 22.7	2.098	3.042	6.4	20.1	12 7	3 28.43	+24 24.1	1.970	2.916	6.6	21.1
12 17	3 22.36	+19 0.1	2.159	3.038	9.9	20.3	12 17	3 21.18	+23 40.9	2.027	2.911	10.2	21.3
12 27	3 17.56	+18 44.0	2.244	3.034	12.9	20.5	12 27	3 16.29	+23 2.5	2.107	2.906	13.3	21.5
142000	2002 <i>PZ</i> ₁₅₈		11 20.4 10°20'	5°8'/22.8	18		293617	2007 <i>LK</i> ₃₃ </					

EPHEMERIDES

11 20.4

11 20.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
521705	2015 <i>RD</i> ₂₆₄		11 20.4	45°21	3°4/21.9	18	405339	2003 <i>UZ</i> ₃₂₈		11 20.4	133°53	4°6/17.1	18
10 18	4 11.68	+28 55.9	1.769	2.596	14.9	21.2	10 18	4 5.77	+7 50.5	2.346	3.190	11.1	21.1
10 28	4 5.82	+29 11.6	1.699	2.599	11.5	21.0	10 28	4 0.67	+6 40.6	2.283	3.194	8.4	20.9
11 7	3 57.41	+29 14.3	1.650	2.602	7.6	20.8	11 7	3 54.03	+5 32.9	2.246	3.198	5.8	20.7
11 17	3 47.35	+29 2.3	1.628	2.605	4.1	20.6	11 17	3 46.46	+4 32.0	2.237	3.202	4.6	20.7
11 27	3 36.91	+28 36.9	1.633	2.609	4.1	20.6	11 27	3 38.76	+3 42.2	2.258	3.206	5.8	20.8
12 7	3 27.46	+28 2.0	1.667	2.612	7.6	20.8	12 7	3 31.69	+3 6.9	2.307	3.210	8.3	20.9
12 17	3 20.09	+27 23.4	1.726	2.616	11.4	21.1	12 17	3 25.93	+2 47.6	2.382	3.213	10.9	21.1
12 27	3 15.53	+26 47.2	1.809	2.619	14.7	21.3	12 27	3 21.96	+2 44.3	2.479	3.217	13.2	21.3
23894	Arikahiguchi		11 20.4	305°88	2°4/21.6	17	199656	2006 <i>GC</i> ₄₂		11 20.4	187°36	2°0/18.7	18
10 18	4 8.95	+27 0.6	2.109	2.936	12.8	19.0	10 18	4 5.70	+15 9.0	2.818	3.656	9.6	20.8
10 28	4 3.53	+27 11.2	2.026	2.928	9.8	18.8	10 28	4 0.45	+14 15.2	2.741	3.655	7.1	20.6
11 7	3 55.97	+27 11.9	1.965	2.920	6.3	18.6	11 7	3 53.84	+13 18.6	2.691	3.654	4.3	20.4
11 17	3 46.98	+27 1.9	1.932	2.913	3.0	18.4	11 17	3 46.41	+12 22.1	2.671	3.653	2.1	20.3
11 27	3 37.60	+26 42.2	1.928	2.906	3.3	18.4	11 27	3 38.84	+11 29.0	2.682	3.651	3.3	20.4
12 7	3 28.90	+26 16.0	1.953	2.898	6.7	18.6	12 7	3 31.80	+10 42.6	2.723	3.649	6.1	20.6
12 17	3 21.86	+25 47.3	2.004	2.891	10.2	18.8	12 17	3 25.88	+10 5.4	2.793	3.647	8.8	20.7
12 27	3 17.15	+25 20.8	2.080	2.884	13.3	19.0	12 27	3 21.54	+9 39.3	2.887	3.644	11.1	20.9
345424	2006 <i>DU</i> ₄₃		11 20.4	80°88	1°2/19.8	18	454759	2014 <i>WG</i> ₃₂		11 20.4	122°23	2°5/22.1	17
10 18	4 11.63	+18 12.5	1.627	2.477	14.9	20.8	10 18	4 8.00	+29 43.9	2.464	3.277	11.6	21.1
10 28	4 5.56	+17 50.7	1.570	2.491	10.9	20.5	10 28	4 2.46	+29 30.7	2.387	3.281	8.9	21.0
11 7	3 57.11	+17 23.9	1.537	2.504	6.4	20.3	11 7	3 55.15	+29 6.0	2.335	3.284	5.9	20.8
11 17	3 47.24	+16 54.2	1.531	2.518	1.8	20.1	11 17	3 46.76	+28 29.8	2.311	3.288	3.1	20.6
11 27	3 37.21	+16 25.4	1.553	2.531	3.7	20.2	11 27	3 38.19	+27 44.2	2.316	3.292	3.0	20.6
12 7	3 28.27	+16 1.5	1.602	2.544	8.2	20.5	12 7	3 30.33	+26 52.8	2.351	3.296	5.8	20.8
12 17	3 21.40	+15 46.0	1.677	2.558	12.2	20.8	12 17	3 23.95	+26 0.2	2.415	3.299	8.8	21.0
12 27	3 17.22	+15 41.4	1.774	2.571	15.5	21.0	12 27	3 19.58	+25 11.0	2.503	3.302	11.4	21.2
282902	2007 <i>HN</i> ₁₁		11 20.4	203°43	0°2/20.5	18	280829	2005 <i>UG</i> ₉₇		11 20.4	315°74	2°9/18.9	18
10 18	4 12.18	+21 41.5	1.926	2.762	13.5	21.8	10 18	4 9.11	+16 9.1	1.456	2.318	15.6	20.5
10 28	4 5.91	+21 25.2	1.846	2.758	10.0	21.6	10 28	4 4.13	+15 13.7	1.386	2.312	11.5	20.2
11 7	3 57.36	+21 1.1	1.791	2.754	6.0	21.3	11 7	3 56.50	+14 12.2	1.338	2.306	7.0	20.0
11 17	3 47.34	+20 30.0	1.763	2.750	1.6	21.0	11 17	3 47.15	+13 9.7	1.316	2.301	3.1	19.7
11 27	3 36.95	+19 54.8	1.765	2.745	3.0	21.1	11 27	3 37.42	+12 12.4	1.321	2.295	5.2	19.8
12 7	3 27.39	+19 19.6	1.795	2.739	7.3	21.4	12 7	3 28.69	+11 26.6	1.352	2.290	9.8	20.1
12 17	3 19.64	+18 48.7	1.853	2.733	11.2	21.6	12 17	3 22.09	+10 57.0	1.408	2.285	14.3	20.3
12 27	3 14.41	+18 26.1	1.934	2.727	14.6	21.8	12 27	3 18.38	+10 45.6	1.483	2.281	18.0	20.6
329648	2003 <i>SB</i> ₂₁₈		11 20.4	69°16	0°8/20.8	18	415400	2013 <i>OZ</i> ₈		11 20.4	172°34	3°7/22.8	17
10 18	4 9.95	+21 54.0	2.199	3.032	12.2	21.0	10 18	4 10.47	+32 52.3	2.715	3.508	11.2	21.6
10 28	4 3.96	+22 9.5	2.133	3.043	9.0	20.8	10 28	4 4.27	+33 12.8	2.634	3.510	8.8	21.4
11 7	3 56.06	+22 19.4	2.092	3.054	5.4	20.6	11 7	3 56.26	+33 22.0	2.577	3.512	6.3	21.3
11 17	3 46.98	+22 23.5	2.079	3.065	1.7	20.3	11 17	3 47.09	+33 18.5	2.548	3.513	4.1	21.1
11 27	3 37.67	+22 22.8	2.096	3.076	2.6	20.4	11 27	3 37.63	+33 2.5	2.549	3.514	3.9	21.1
12 7	3 29.12	+22 19.5	2.143	3.088	6.2	20.7	12 7	3 28.80	+32 36.3	2.580	3.515	5.9	21.3
12 17	3 22.14	+22 16.3	2.217	3.099	9.6	20.9	12 17	3 21.39	+32 3.6	2.639	3.516	8.4	21.4
12 27	3 17.33	+22 16.0	2.315	3.110	12.4	21.1	12 27	3 15.99	+31 29.1	2.724	3.516	10.8	21.6
319304	2006 <i>BA</i> ₁₂₀		11 20.4	264°68	1°5/19.5	17	366032	2012 <i>BV</i> ₁₄₄		11 20.4	137°32	0°2/20.5	18
10 18	4 6.76	+16 51.4	2.273	3.117	11.4	21.3	10 18	4 8.69	+21 48.3	2.141	2.978	12.3	21.8
10 28	4 1.60	+16 21.2	2.193	3.110	8.4	21.0	10 28	4 3.12	+21 33.0	2.068	2.980	9.1	21.6
11 7	3 54.69	+15 47.4	2.137	3.103	5.0	20.8	11 7	3 55.62	+21 10.8	2.019	2.982	5.4	21.3
11 17	3 46.64	+15 12.2	2.110	3.096	1.8	20.6	11 17	3 46.92	+20 42.7	1.997	2.984	1.5	21.1
11 27	3 38.33	+14 38.5	2.113	3.089	3.3	20.7	11 27	3 37.98	+20 11.3	2.006	2.986	2.6	21.2
12 7	3 30.63	+14 9.9	2.145	3.082	6.8	20.9	12 7	3 29.78	+19 40.0	2.044	2.988	6.5	21.4
12 17	3 24.31	+13 49.0	2.204	3.074	10.1	21.1	12 17	3 23.16	+19 12.6	2.109	2.990	10.0	21.6
12 27	3 19.96	+13 38.1	2.286	3.067	13.0	21.3	12 27	3 18.70	+18 52.2	2.198	2.992	13.0	21.9
448603	2010 <i>TN</i> ₁₈₀		11 20.4	22°53	1°9/19.3	18	300725	2007 <i>VP</i> ₁₃₂		11 20.4	134°77	2°7/21.7	18
10 18	4 6.89	+17 57.8	1.654	2.512	14.3	20.6	10 18	4 14.75	+27 16.8	2.134	2.949	13.1	21.6
10 28	4 2.10	+17 5.5	1.593	2.517	10.5	20.4	10 28	4 7.65	+27 42.9	2.065	2.960	10.0	21.4
11 7	3 55.10	+16 6.9	1.555	2.523	6.2	20.1	11 7	3 58.34	+27 59.3	2.020	2.971	6.5	21.2
11 17	3 46.75	+15 6.2	1.543	2.529	2.2	19.9	11 17	3 47.63	+28 4.2	2.003	2.982	3.3	21.0
11 27	3 38.20	+14 8.8	1.559	2.535	4.1	20.1	11 27	3 36.63	+27 58.2	2.017	2.992	3.5	21.0
12 7	3 30.61	+13 20.2	1.602	2.542	8.4	20.3	12 7	3 26.50	+27 43.8	2.060	3.002	6.6	21.3
12 17	3 24.91	+12 44.4	1.671	2.550	12.3	20.6	12 17	3 18.18	+27 25.2	2.131	3.011	10.0	21.5
12 27	3 21.69	+12 23.9	1.762	2.558	15.6	20.8	12 27	3 12.35	+27 7.0	2.226	3.020	12.9	21.7
1969	Alain		11 20.4	234°42	0°7/19.9	18	522043	2015 <i>XJ</i> ₄₁₂		11 20.4	303°91	0°7/20.8	17
10 18	4 6.90	+19 5.1	2.611	3.446	10.4	17.2	10 18	4 7.21	+24 10.6	2.104	2.940	12.5	21.6
10 28	4 1.54	+18 40.4	2.524	3.436	7.6	17.0	10 28	4 2.15	+23 41.1	2.021	2.933	9.3	21.4
11 7	3 54.59	+18 10.9	2.462	3.426	4.5	16.8	11 7	3 55.11	+23 1.6	1.963	2.925	5.7	21.1
11 17	3 46.62	+17 38.3	2.429	3.416	1.2	16.6	11 17	3 46.80	+22 13.6	1.932	2.918	1.7	20.9
11 27	3 38.39	+17 4.9	2.427	3.406	2.6	16.7	11 27	3 38.21	+21 20.3	1.931	2.911	2.7	20.9
12 7	3 30.69	+16 33.8	2.456	3.395	5.9	16.9	12 7	3 30.33	+20 26.2	1.958	2.904	6.6	21.2
12 17	3 24.21	+16 7.8	2.512	3.384	9.0	17.1	12 17	3 24.03	+19 36.2	2.013	2.897	10.2	21.4
12 27	3 19.50	+15 49.4	2.594	3.373	11.6	17.2	12 27	3 19.93	+18 54.5	2.092	2.891	13.4	21.6
220746	2004 <i>TY</i> ₆₀		11 20.4	17°28	1°3/19.8	18	174894	2004 <i>BM</i> ₁₀₂		11 20.4	237°26	6°8	

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11 20.4

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
234678	2002 <i>GJ</i> ₆₄		11 20.4 139°77	1°2/19.8	18		113379	2002 <i>SR</i> ₉		11 20.4 215°18	5°1/22.7	18	
10 18	4 11.38	+17 27.6	1.987	2.827	12.9	21.0	10 18	4 15.43	+33 55.3	2.174	2.967	13.6	20.0
10 28	4 5.09	+17 6.3	1.921	2.836	9.5	20.8	10 28	4 8.54	+34 41.6	2.088	2.962	10.9	19.8
11 7	3 56.78	+16 41.1	1.879	2.845	5.6	20.6	11 7	3 59.11	+35 14.8	2.026	2.956	8.0	19.7
11 17	3 47.22	+16 13.8	1.866	2.852	1.7	20.3	11 17	3 47.92	+35 31.3	1.990	2.950	5.6	19.5
11 27	3 37.46	+15 47.5	1.883	2.860	3.3	20.5	11 27	3 36.16	+35 29.8	1.984	2.944	5.4	19.5
12 7	3 28.56	+15 25.6	1.928	2.867	7.3	20.7	12 7	3 25.13	+35 12.2	2.006	2.937	7.6	19.6
12 17	3 21.38	+15 11.0	2.001	2.874	10.9	21.0	12 17	3 15.98	+34 43.3	2.056	2.930	10.6	19.8
12 27	3 16.52	+15 5.9	2.097	2.880	13.9	21.2	12 27	3 9.53	+34 9.7	2.129	2.922	13.4	19.9
105329	2000 <i>QA</i> ₈₄		11 20.4 325°54	6°0/16.8	18		436852	2012 <i>SC</i> ₃₃		11 20.4 118°70	0°6/20.7	18	
10 18	4 6.68	+4 57.8	1.977	2.824	12.7	19.3	10 18	4 13.20	+23 43.0	1.722	2.559	14.8	21.4
10 28	4 1.64	+3 51.7	1.913	2.823	9.9	19.1	10 28	4 6.71	+23 15.1	1.660	2.572	11.0	21.2
11 7	3 54.75	+2 50.6	1.874	2.822	7.2	18.9	11 7	3 57.83	+22 36.3	1.621	2.584	6.6	21.0
11 17	3 46.71	+1 59.9	1.862	2.820	6.0	18.9	11 17	3 47.53	+21 48.5	1.610	2.596	1.9	20.7
11 27	3 38.45	+1 24.8	1.877	2.819	7.3	19.0	11 27	3 37.08	+20 55.5	1.627	2.608	3.1	20.8
12 7	3 30.92	+1 8.1	1.920	2.818	10.0	19.1	12 7	3 27.73	+20 2.8	1.673	2.619	7.6	21.2
12 17	3 24.91	+1 10.7	1.987	2.817	12.8	19.3	12 17	3 20.48	+19 16.1	1.746	2.630	11.6	21.4
12 27	3 20.99	+1 31.6	2.074	2.816	15.3	19.5	12 27	3 15.94	+18 39.7	1.841	2.640	15.0	21.7
361410	2006 <i>WN</i> ₁₀₄		11 20.4 223°33	0°4/20.2	18		402681	2006 <i>UM</i> ₃₃₆		11 20.4 4°55	9°0/16.8	18	
10 18	4 8.63	+20 30.1	2.084	2.924	12.5	21.8	10 18	4 7.10	-0 11.5	1.492	2.346	15.8	19.9
10 28	4 3.14	+20 3.0	2.006	2.921	9.2	21.6	10 28	4 2.42	-1 9.3	1.439	2.346	12.7	19.7
11 7	3 55.68	+19 29.0	1.953	2.918	5.4	21.3	11 7	3 55.41	-1 54.0	1.408	2.346	10.1	19.5
11 17	3 46.97	+18 50.1	1.928	2.915	1.4	21.0	11 17	3 46.93	-2 18.8	1.400	2.348	9.0	19.5
11 27	3 37.98	+18 9.4	1.932	2.912	2.9	21.1	11 27	3 38.20	-2 18.5	1.417	2.350	10.2	19.6
12 7	3 29.73	+17 30.8	1.966	2.909	6.9	21.4	12 7	3 30.43	-1 51.9	1.459	2.353	12.8	19.7
12 17	3 23.06	+16 58.3	2.026	2.905	10.5	21.6	12 17	3 24.60	-1 0.8	1.522	2.356	15.8	19.9
12 27	3 18.59	+16 35.0	2.111	2.901	13.6	21.8	12 27	3 21.37	+0 10.6	1.604	2.361	18.6	20.1
105104	2000 <i>LJ</i> ₁₁		11 20.4 157°93	5°2/16.9	18		423272	2004 <i>VU</i> ₈₀		11 20.4 31°11	1°2/19.9	17	
10 18	4 7.92	+4 26.3	2.445	3.279	11.0	20.3	10 18	4 10.05	+20 20.6	0.948	1.829	20.3	20.8
10 28	4 2.18	+3 29.2	2.384	3.286	8.5	20.2	10 28	4 5.59	+19 38.8	0.905	1.841	14.9	20.5
11 7	3 54.92	+2 37.0	2.348	3.292	6.2	20.0	11 7	3 57.61	+18 45.9	0.882	1.853	8.7	20.3
11 17	3 46.75	+1 53.8	2.342	3.298	5.2	20.0	11 17	3 47.50	+17 46.7	0.880	1.867	2.3	19.9
11 27	3 38.45	+1 23.4	2.364	3.303	6.2	20.0	11 27	3 37.23	+16 49.0	0.901	1.882	4.8	20.2
12 7	3 30.79	+1 8.0	2.415	3.308	8.5	20.2	12 7	3 28.70	+16 1.2	0.946	1.897	10.9	20.6
12 17	3 24.43	+1 8.3	2.493	3.312	10.9	20.4	12 17	3 23.22	+15 29.4	1.012	1.914	16.2	20.9
12 27	3 19.84	+1 23.5	2.592	3.315	13.1	20.5	12 27	3 21.46	+15 16.6	1.096	1.932	20.5	21.2
518456	2005 <i>GN</i> ₁₅₉		11 20.4 249°83	3°2/18.3	18		438585	2007 <i>UA</i> ₁₁₆		11 20.4 11°69	2°5/18.9	18	
10 18	4 8.37	+14 0.4	1.972	2.821	12.7	21.8	10 18	4 5.50	+19 19.9	1.275	2.147	16.7	20.4
10 28	4 3.02	+12 54.9	1.892	2.811	9.4	21.6	10 28	4 1.61	+17 51.3	1.219	2.151	12.2	20.1
11 7	3 55.65	+11 45.6	1.836	2.800	5.9	21.3	11 7	3 55.04	+16 11.7	1.185	2.155	7.2	19.9
11 17	3 46.98	+10 36.9	1.809	2.789	3.3	21.1	11 17	3 46.84	+14 28.2	1.175	2.161	2.8	19.6
11 27	3 37.99	+9 34.3	1.810	2.778	5.0	21.2	11 27	3 38.44	+12 50.6	1.192	2.168	5.2	19.8
12 7	3 29.71	+8 42.9	1.841	2.766	8.6	21.4	12 7	3 31.25	+11 28.0	1.234	2.176	10.1	20.1
12 17	3 23.02	+8 6.4	1.897	2.755	12.1	21.6	12 17	3 26.33	+10 26.6	1.299	2.185	14.7	20.4
12 27	3 18.56	+7 46.6	1.975	2.743	15.2	21.8	12 27	3 24.32	+9 49.1	1.385	2.195	18.4	20.7
48010	2001 <i>BD</i> ₇₀		11 20.4 95°25	13°2/28.7	18		438396	2006 <i>UO</i> ₈₃		11 20.4 26°70	1°4/19.9	17	
10 18	4 32.97	+53 24.1	1.736	2.429	20.1	18.4	10 18	4 9.67	+16 37.3	1.592	2.448	14.8	20.8
10 28	4 23.11	+55 4.5	1.690	2.456	17.9	18.3	10 28	4 4.30	+16 33.8	1.532	2.455	10.9	20.6
11 7	4 8.37	+56 13.6	1.661	2.482	15.7	18.2	11 7	3 56.52	+16 27.6	1.495	2.462	6.4	20.3
11 17	3 50.31	+56 41.1	1.653	2.508	14.0	18.2	11 17	3 47.22	+16 20.3	1.483	2.470	2.0	20.1
11 27	3 41.67	+56 22.7	1.667	2.532	13.3	18.2	11 27	3 37.65	+16 14.5	1.499	2.478	3.7	20.2
12 7	3 35.30	+55 23.2	1.705	2.556	13.6	18.3	12 7	3 29.06	+16 13.1	1.543	2.487	8.3	20.5
12 17	3 3.22	+53 54.6	1.765	2.580	14.8	18.4	12 17	3 22.49	+16 18.6	1.611	2.496	12.3	20.8
12 27	2 56.27	+52 11.6	1.846	2.603	16.5	18.6	12 27	3 18.60	+16 32.9	1.701	2.505	15.8	21.0
139364	2001 <i>MO</i> ₈		11 20.4 114°16	1°6/21.5	18		472540	2015 <i>DL</i> ₂₂		11 20.4 95°31	2°1/21.2	18	
10 18	4 12.20	+26 52.3	2.306	3.122	12.2	20.7	10 18	4 17.07	+25 3.7	1.533	2.369	16.4	21.0
10 28	4 5.43	+26 35.1	2.245	3.144	9.2	20.6	10 28	4 9.81	+25 17.7	1.480	2.389	12.3	20.8
11 7	3 56.86	+26 7.5	2.209	3.165	5.7	20.4	11 7	3 59.77	+25 20.4	1.449	2.408	7.6	20.6
11 17	3 47.24	+25 30.2	2.202	3.185	2.4	20.2	11 17	3 48.04	+25 10.8	1.444	2.428	3.1	20.3
11 27	3 37.57	+24 45.8	2.226	3.205	2.7	20.3	11 27	3 36.15	+24 50.8	1.467	2.447	3.6	20.4
12 7	3 28.80	+23 58.2	2.280	3.224	6.0	20.5	12 7	3 25.60	+24 24.9	1.518	2.465	8.1	20.7
12 17	3 21.69	+23 11.9	2.362	3.242	9.1	20.7	12 17	3 17.52	+23 58.8	1.595	2.483	12.2	21.0
12 27	3 16.74	+22 31.0	2.469	3.260	11.8	20.9	12 27	3 12.58	+23 37.8	1.695	2.501	15.7	21.3
486587	2013 <i>JK</i> ₂₈		11 20.4 81°36	11°8/13.2	18		48538	1993 <i>RF</i> ₁₅		11 20.4 70°49	1°0/19.9	18	
10 18	4 7.70	-19 33.1	2.372	3.126	13.7	20.5	10 18	4 11.59	+18 47.7	1.707	2.554	14.4	19.1
10 28	4 2.00	-20 46.7	2.349	3.143	12.6	20.5	10 28	4 5.35	+18 22.2	1.659	2.577	10.5	18.9
11 7	3 54.77	-21 38.3	2.347	3.161	11.9	20.5	11 7	3 56.94	+17 51.3	1.634	2.601	6.1	18.7
11 17	3 46.70	-22 2.8	2.368	3.179	11.8	20.5	11 17	3 47.29	+17 17.6	1.637	2.624	1.7	18.5
11 27	3 38.62	-21 57.8	2.411	3.196	12.3	20.6	11 27	3 37.60	+16 44.6	1.668	2.647	3.4	18.7
12 7	3 31.33	-21 24.0	2.475	3.214	13.3	20.7	12 7	3 29.03	+16 16.4	1.728	2.670	7.7	19.0
12 17	3 25.46	-20 24.5	2.559	3.231	14.4	20.8	12 17	3 22.45	+15 56.4	1.813	2.693	11.5	19.2
12 27	3 21.45	-19 4.2	2.660	3.248	15.4	20.9	12 27	3 18.41	+15 47.0	1.921	2.715	14.6	19.5
189801	2002 <i>JT</i> ₄₅		11 20.4 141°48	1°1/19.6	18		334157	2001 <i>SY</i> ₇	</				

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
133008	Snedden		11 20.4 176°58	2°2/21.9	18		24911	Kojimashigemi		11 20.4 257°05	4°8/18.3	18	
10 18	4 8.93	+28 43.7	2.984	3.789	10.0	21.0	10 18	4 10.90	+10 33.6	1.525	2.383	15.3	18.5
10 28	4 2.95	+28 52.0	2.902	3.791	7.7	20.9	10 28	4 5.37	+9 42.1	1.455	2.376	11.5	18.3
11 7	3 55.43	+28 51.7	2.845	3.792	5.1	20.7	11 7	3 57.27	+8 51.2	1.407	2.369	7.5	18.1
11 17	3 46.93	+28 42.5	2.817	3.793	2.7	20.5	11 17	3 47.47	+8 6.2	1.385	2.362	4.9	17.9
11 27	3 38.20	+28 25.0	2.819	3.794	2.7	20.5	11 27	3 37.25	+7 32.9	1.390	2.354	6.6	18.0
12 7	3 30.02	+28 1.4	2.853	3.794	5.1	20.7	12 7	3 27.96	+7 15.6	1.421	2.347	10.6	18.2
12 17	3 23.05	+27 34.8	2.916	3.794	7.7	20.9	12 17	3 20.72	+7 16.6	1.477	2.339	14.6	18.4
12 27	3 17.80	+27 8.5	3.004	3.793	10.0	21.0	12 27	3 16.28	+7 35.9	1.552	2.332	18.1	18.6
327043	2004 SX ₂₉		11 20.4 26°18	6°2/23.1	17		391202	2006 GF ₂₆		11 20.4 151°27	2°9/18.7	18	
10 18	4 12.10	+33 39.7	1.539	2.360	17.0	19.5	10 18	4 9.91	+13 50.5	2.029	2.873	12.6	22.4
10 28	4 6.55	+34 34.3	1.485	2.375	13.5	19.3	10 28	4 3.96	+12 58.1	1.963	2.880	9.3	22.2
11 7	3 58.05	+35 11.2	1.452	2.390	9.9	19.1	11 7	3 56.11	+12 3.6	1.923	2.886	5.7	22.0
11 17	3 47.64	+35 26.5	1.444	2.407	6.9	19.0	11 17	3 47.12	+11 10.9	1.911	2.892	3.0	21.8
11 27	3 36.89	+35 19.5	1.461	2.424	6.5	19.0	11 27	3 37.96	+10 24.3	1.928	2.897	4.5	21.9
12 7	3 27.39	+34 54.3	1.504	2.442	9.0	19.2	12 7	3 29.61	+9 47.9	1.975	2.902	8.0	22.2
12 17	3 20.38	+34 17.9	1.572	2.461	12.3	19.5	12 17	3 22.88	+9 24.3	2.048	2.906	11.3	22.4
12 27	3 16.62	+33 38.3	1.661	2.481	15.4	19.7	12 27	3 18.33	+9 14.9	2.144	2.910	14.2	22.6
24218	Linfredrick		11 20.4 115°27	1°7/19.7	18		234712	2002 JY ₁₈		11 20.4 178°62	2°9/18.9	18	
10 18	4 13.56	+17 6.1	1.568	2.418	15.3	18.9	10 18	4 10.24	+13 30.3	1.927	2.773	13.1	21.0
10 28	4 7.12	+16 41.8	1.509	2.429	11.3	18.7	10 28	4 4.37	+12 53.7	1.857	2.774	9.6	20.8
11 7	3 58.15	+16 13.2	1.473	2.440	6.6	18.5	11 7	3 56.45	+12 15.7	1.811	2.775	5.9	20.6
11 17	3 47.65	+15 42.7	1.464	2.450	2.2	18.2	11 17	3 47.23	+11 39.6	1.793	2.775	3.0	20.4
11 27	3 36.93	+15 14.3	1.483	2.460	4.1	18.4	11 27	3 37.75	+11 9.4	1.805	2.775	4.5	20.5
12 7	3 27.34	+14 52.1	1.529	2.470	8.6	18.7	12 7	3 29.07	+10 48.4	1.844	2.775	8.2	20.7
12 17	3 19.93	+14 39.7	1.601	2.479	12.8	18.9	12 17	3 22.08	+10 39.1	1.910	2.774	11.7	20.9
12 27	3 15.35	+14 39.1	1.695	2.488	16.3	19.2	12 27	3 17.40	+10 42.7	1.999	2.773	14.8	21.1
351427	2005 GN ₈₀		11 20.4 108°79	3°6/18.3	18		485798	2012 DN ₂₉		11 20.4 138°41	7°6/13.9	18	
10 18	4 9.45	+11 24.6	2.059	2.903	12.4	20.9	10 18	4 5.45	-8 1.3	2.937	3.736	10.3	21.6
10 28	4 3.50	+10 33.3	2.004	2.920	9.2	20.7	10 28	4 0.17	-9 17.8	2.893	3.748	8.8	21.5
11 7	3 55.76	+9 42.6	1.975	2.935	5.8	20.6	11 7	3 53.68	-10 22.7	2.875	3.759	7.8	21.4
11 17	3 47.00	+8 56.4	1.974	2.951	3.6	20.5	11 17	3 46.48	-11 11.8	2.883	3.769	7.6	21.4
11 27	3 38.16	+8 18.8	2.002	2.966	5.0	20.6	11 27	3 39.20	-11 41.9	2.919	3.780	8.3	21.5
12 7	3 30.17	+7 52.9	2.059	2.980	8.1	20.8	12 7	3 32.46	-11 51.9	2.981	3.789	9.6	21.6
12 17	3 23.75	+7 40.7	2.142	2.995	11.1	21.0	12 17	3 26.77	-11 42.4	3.066	3.799	11.1	21.7
12 27	3 19.44	+7 42.3	2.248	3.008	13.8	21.2	12 27	3 22.55	-11 15.5	3.171	3.808	12.4	21.8
82455	2001 OE ₁₄		11 20.4 118°53	4°5/22.7	18		523363	2017 CC ₃₃		11 20.4 95°92	2°4/21.6	18	
10 18	4 15.52	+32 23.0	1.691	2.504	16.1	19.2	10 18	4 10.81	+27 1.4	1.974	2.800	13.6	21.1
10 28	4 8.74	+32 31.4	1.625	2.515	12.6	19.0	10 28	4 4.99	+27 9.7	1.899	2.802	10.3	20.9
11 7	3 59.20	+32 22.3	1.582	2.526	8.7	18.8	11 7	3 56.91	+27 7.2	1.848	2.803	6.6	20.7
11 17	3 47.93	+31 53.8	1.564	2.536	5.2	18.6	11 17	3 47.37	+26 53.3	1.823	2.804	3.1	20.5
11 27	3 36.39	+31 7.5	1.574	2.546	4.9	18.6	11 27	3 37.48	+26 29.3	1.827	2.805	3.3	20.5
12 7	3 26.10	+30 9.1	1.613	2.556	8.0	18.8	12 7	3 28.44	+25 58.8	1.861	2.807	6.9	20.7
12 17	3 18.18	+29 6.1	1.677	2.565	11.7	19.1	12 17	3 21.21	+25 26.4	1.921	2.808	10.5	20.9
12 27	3 13.34	+28 6.5	1.764	2.574	15.1	19.3	12 27	3 16.48	+24 57.2	2.004	2.809	13.7	21.1
6470	Aldrin		11 20.4 19°35	0°0/20.4	18		216041	2006 HO ₉		11 20.4 124°26	0°1/20.4	17	
10 18	4 9.18	+22 7.7	1.066	1.940	19.2	16.8	10 18	4 15.30	+22 6.5	1.488	2.332	16.3	20.8
10 28	4 4.88	+21 38.0	1.014	1.945	14.2	16.6	10 28	4 8.56	+21 38.8	1.428	2.344	12.1	20.6
11 7	3 57.22	+20 55.6	0.981	1.951	8.4	16.3	11 7	3 59.07	+21 0.8	1.391	2.356	7.2	20.3
11 17	3 47.45	+20 3.3	0.971	1.958	2.2	15.9	11 17	3 47.90	+20 14.5	1.380	2.367	1.9	20.0
11 27	3 37.36	+19 7.5	0.985	1.966	4.2	16.1	11 27	3 36.55	+19 24.1	1.397	2.378	3.5	20.1
12 7	3 28.78	+18 16.3	1.023	1.975	10.1	16.5	12 7	3 26.48	+18 36.0	1.442	2.388	8.5	20.5
12 17	3 23.03	+17 36.8	1.083	1.986	15.4	16.8	12 17	3 18.81	+17 55.8	1.513	2.398	13.0	20.8
12 27	3 20.85	+17 13.4	1.162	1.997	19.7	17.1	12 27	3 14.22	+17 27.9	1.605	2.407	16.7	21.0
484129	2006 SU ₃₁₀		11 20.4 342°55	3°1/21.8	18		213125	2000 CW ₇₉		11 20.4 328°33	3°4/18.9	18	
10 18	4 9.16	+27 34.5	1.556	2.398	15.9	21.0	10 18	4 6.73	+14 11.1	1.430	2.298	15.5	19.9
10 28	4 4.38	+27 47.8	1.481	2.391	12.2	20.8	10 28	4 2.59	+13 30.8	1.353	2.281	11.6	19.7
11 7	3 56.82	+27 48.1	1.426	2.384	8.0	20.5	11 7	3 55.78	+12 47.3	1.297	2.265	7.1	19.4
11 17	3 47.37	+27 33.9	1.396	2.377	3.9	20.3	11 17	3 47.13	+12 5.0	1.267	2.250	3.5	19.1
11 27	3 37.39	+27 6.5	1.393	2.372	4.1	20.3	11 27	3 37.92	+11 29.7	1.262	2.235	5.5	19.2
12 7	3 28.36	+26 30.4	1.417	2.367	8.2	20.5	12 7	3 29.56	+11 6.3	1.283	2.221	10.2	19.4
12 17	3 21.53	+25 51.8	1.466	2.362	12.5	20.7	12 17	3 23.25	+10 58.6	1.327	2.208	14.7	19.7
12 27	3 17.72	+25 17.2	1.536	2.359	16.3	21.0	12 27	3 19.84	+11 8.0	1.391	2.197	18.6	19.9
441294	2007 YO ₁₅		11 20.4 63°60	2°1/21.5	17		206379	2003 RV ₅		11 20.4 20°61	6°4/24.3	18	
10 18	4 10.71	+26 55.1	1.746	2.581	14.8	21.3	10 18	4 9.87	+37 20.1	1.303	2.126	19.4	19.0
10 28	4 5.01	+26 42.9	1.681	2.588	11.1	21.1	10 28	4 5.26	+37 6.0	1.244	2.134	15.6	18.8
11 7	3 56.91	+26 17.8	1.638	2.596	7.0	20.9	11 7	3 57.38	+36 24.0	1.204	2.143	11.4	18.6
11 17	3 47.34	+25 40.3	1.622	2.605	3.0	20.6	11 17	3 47.49	+35 12.3	1.187	2.153	7.6	18.4
11 27	3 37.53	+24 53.4	1.633	2.613	3.3	20.7	11 27	3 37.41	+33 35.1	1.195	2.164	6.6	18.4
12 7	3 28.76	+24 2.2	1.673	2.621	7.3	20.9	12 7	3 28.91	+31 42.5	1.228	2.176	9.4	18.6
12 17	3 22.02	+23 12.7	1.739	2.630	11.2	21.2	12 17	3 23.22	+29 47.1	1.285	2.189	13.4	18.8
12 27	3 17.96	+22 30.3	1.828	2.638	14.6	21.4	12 27	3 21.02	+28 0.6	1.365	2.203	17.1	19.1
270302	2001 WA ₂		11 20.4 33°80	9°9/13.9	18		483294	2015 UC ₂		11 20.4 240°08	1°8/21.2	17	
10 18	4 11.48	+11 28.4	0.979	1.860	19.8	19.5							

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
191630	2004 <i>NE</i> ₂₂		11 20.4 43°86'	2°9/19.6	18		437837	1996 <i>JM</i> ₁₁		11 20.4 161°93'	2°9/18.9	18	
10 18	4 12.98	+12 59.9	1.325	2.187	16.9	19.8	10 18	4 12.17	+12 47.8	2.045	2.885	12.7	22.2
10 28	4 7.02	+13 0.3	1.274	2.199	12.5	19.6	10 28	4 5.64	+12 15.3	1.978	2.892	9.4	22.0
11 7	3 58.24	+13 2.1	1.244	2.211	7.5	19.3	11 7	3 57.14	+11 42.3	1.936	2.897	5.8	21.8
11 17	3 47.71	+13 7.5	1.240	2.224	3.2	19.1	11 17	3 47.43	+11 11.7	1.922	2.903	3.0	21.6
11 27	3 36.95	+13 19.0	1.262	2.237	5.0	19.3	11 27	3 37.52	+10 47.0	1.938	2.907	4.4	21.7
12 7	3 27.46	+13 38.4	1.310	2.251	9.7	19.6	12 7	3 28.42	+10 31.2	1.983	2.911	7.9	22.0
12 17	3 20.39	+14 7.0	1.382	2.265	14.1	19.9	12 17	3 20.97	+10 26.2	2.055	2.914	11.3	22.2
12 27	3 16.45	+14 45.0	1.475	2.280	17.7	20.2	12 27	3 15.76	+10 33.0	2.151	2.916	14.1	22.4
117408	2005 <i>AL</i> ₁₁		11 20.4 301°40'	3°3/18.4	17		511378	2014 <i>FP</i> ₇₃		11 20.4 227°64'	0°2/20.3	18	
10 18	4 6.11	+11 13.8	2.190	3.038	11.6	19.8	10 18	4 13.37	+18 28.7	1.765	2.608	14.2	21.3
10 28	4 1.21	+10 36.3	2.112	3.029	8.7	19.6	10 28	4 7.04	+18 46.4	1.690	2.606	10.5	21.1
11 7	3 54.56	+9 59.0	2.059	3.020	5.5	19.4	11 7	3 58.23	+19 0.9	1.639	2.604	6.3	20.8
11 17	3 46.76	+9 25.4	2.034	3.012	3.4	19.3	11 17	3 47.76	+19 12.0	1.615	2.602	1.6	20.5
11 27	3 38.68	+8 59.0	2.037	3.003	4.7	19.3	11 27	3 36.83	+19 20.7	1.620	2.600	3.2	20.6
12 7	3 31.21	+8 42.7	2.070	2.994	7.8	19.5	12 7	3 26.75	+19 29.1	1.654	2.598	7.7	20.9
12 17	3 25.10	+8 38.5	2.128	2.986	11.0	19.7	12 17	3 18.60	+19 39.8	1.714	2.596	11.9	21.2
12 27	3 20.95	+8 46.9	2.209	2.978	13.7	19.9	12 27	3 13.16	+19 55.3	1.797	2.594	15.3	21.4
106840	2000 <i>YA</i> ₁₁		11 20.4 229°95'	4°2/18.7	18		228501	2001 <i>SW</i> ₃₄₇		11 20.4 97°19'	1°8/21.5	18	
10 18	4 11.56	+8 42.1	1.851	2.696	13.6	19.7	10 18	4 13.20	+27 41.7	1.590	2.424	16.0	20.3
10 28	4 5.47	+8 24.5	1.777	2.691	10.2	19.5	10 28	4 6.93	+27 2.6	1.528	2.436	12.0	20.1
11 7	3 57.19	+8 10.8	1.728	2.686	6.7	19.2	11 7	3 58.07	+26 7.5	1.489	2.448	7.5	19.9
11 17	3 47.46	+8 4.2	1.705	2.681	4.3	19.1	11 17	3 47.67	+24 58.0	1.476	2.460	2.9	19.6
11 27	3 37.36	+8 7.5	1.712	2.676	5.6	19.2	11 27	3 37.16	+23 39.2	1.492	2.472	3.3	19.7
12 7	3 28.04	+8 22.8	1.746	2.670	9.1	19.4	12 7	3 27.90	+22 18.6	1.535	2.484	7.8	20.0
12 17	3 20.44	+8 50.5	1.806	2.665	12.6	19.6	12 17	3 20.95	+21 4.0	1.605	2.495	12.1	20.2
12 27	3 15.27	+9 30.4	1.889	2.659	15.7	19.8	12 27	3 16.90	+20 1.7	1.698	2.506	15.6	20.5
510199	2011 <i>CN</i> ₆₇		11 20.4 221°01'	6°6/17.4	18		195691	2002 <i>PS</i> ₁₀		11 20.4 27°30'	6°1/24.6	17	
10 18	4 12.16	+3 53.3	1.817	2.658	14.0	22.4	10 18	4 10.67	+39 24.8	2.187	2.965	14.0	19.6
10 28	4 5.93	+3 3.0	1.745	2.650	10.9	22.2	10 28	4 4.94	+39 39.6	2.111	2.968	11.5	19.4
11 7	3 57.46	+2 19.4	1.695	2.641	8.0	22.0	11 7	3 56.90	+39 36.0	2.057	2.971	8.9	19.2
11 17	3 47.53	+1 47.7	1.673	2.632	6.6	21.9	11 17	3 47.40	+39 11.5	2.029	2.975	6.7	19.1
11 27	3 37.22	+1 33.0	1.678	2.622	7.9	22.0	11 27	3 37.61	+38 26.7	2.028	2.978	6.1	19.1
12 7	3 27.69	+1 37.6	1.711	2.612	10.8	22.1	12 7	3 28.75	+37 25.5	2.054	2.982	7.6	19.2
12 17	3 19.91	+2 2.0	1.768	2.601	14.0	22.3	12 17	3 21.81	+36 14.2	2.108	2.986	10.1	19.3
12 27	3 14.59	+2 44.4	1.846	2.589	16.9	22.5	12 27	3 17.44	+35 0.3	2.186	2.991	12.7	19.5
175840	1999 <i>TJ</i> ₁₈₅		11 20.4 128°66'	4°1/22.4	18		258712	2002 <i>GL</i> ₇₃		11 20.4 158°53'	1°0/20.0	16	
10 18	4 16.29	+31 5.1	1.630	2.448	16.3	20.5	10 18	4 15.32	+17 59.2	1.677	2.519	14.9	21.3
10 28	4 9.38	+31 11.5	1.565	2.459	12.7	20.3	10 28	4 8.42	+17 50.0	1.609	2.525	11.0	21.0
11 7	3 59.62	+31 0.9	1.521	2.469	8.6	20.1	11 7	3 58.99	+17 36.2	1.566	2.531	6.5	20.8
11 17	3 48.08	+30 31.7	1.503	2.478	4.9	19.9	11 17	3 47.95	+17 19.2	1.549	2.536	1.8	20.5
11 27	3 36.26	+29 45.4	1.513	2.488	4.7	19.9	11 27	3 36.59	+17 1.7	1.561	2.540	3.6	20.6
12 7	3 25.70	+28 48.4	1.551	2.496	8.1	20.1	12 7	3 26.25	+16 47.2	1.602	2.544	8.2	20.9
12 17	3 17.58	+27 47.8	1.616	2.504	12.1	20.4	12 17	3 18.02	+16 39.3	1.669	2.547	12.4	21.2
12 27	3 12.63	+26 51.6	1.703	2.512	15.5	20.6	12 27	3 12.61	+16 40.5	1.758	2.549	15.9	21.4
357485	2004 <i>JA</i> ₂₉		11 20.4 178°70'	0°5/20.2	18		69841	1998 <i>SA</i> ₁₂		11 20.4 307°57'	2°3/18.9	17	
10 18	4 10.57	+18 27.6	2.482	3.313	11.0	21.7	10 18	4 5.96	+15 51.4	2.043	2.894	12.3	19.3
10 28	4 4.30	+18 25.8	2.405	3.315	8.1	21.5	10 28	4 1.30	+15 2.7	1.959	2.879	9.0	19.1
11 7	3 56.30	+18 20.5	2.352	3.316	4.8	21.3	11 7	3 54.71	+14 9.5	1.899	2.865	5.5	18.8
11 17	3 47.21	+18 12.5	2.329	3.316	1.2	21.0	11 17	3 46.85	+13 15.3	1.867	2.851	2.4	18.6
11 27	3 37.86	+18 3.5	2.337	3.316	2.5	21.1	11 27	3 38.66	+12 24.5	1.864	2.837	4.1	18.7
12 7	3 29.13	+17 55.5	2.376	3.316	6.0	21.4	12 7	3 31.10	+11 41.5	1.889	2.823	7.8	18.9
12 17	3 21.76	+17 50.8	2.443	3.315	9.2	21.6	12 17	3 25.02	+11 10.1	1.941	2.810	11.3	19.1
12 27	3 16.32	+17 51.5	2.535	3.314	11.9	21.7	12 27	3 21.06	+10 52.3	2.015	2.797	14.4	19.3
32021	Lilyjenkins		11 20.4 123°95'	0°8/20.1	18		360906	2005 <i>SQ</i> ₂₀₀		11 20.4 96°91'	0°0/20.4	18	
10 18	4 14.76	+17 52.8	1.807	2.647	14.1	18.8	10 18	4 9.76	+20 37.1	2.038	2.878	12.7	21.2
10 28	4 7.77	+17 52.9	1.746	2.660	10.4	18.6	10 28	4 4.01	+20 29.7	1.969	2.883	9.4	21.0
11 7	3 58.48	+17 49.2	1.709	2.674	6.1	18.4	11 7	3 56.26	+20 16.4	1.925	2.889	5.6	20.8
11 17	3 47.77	+17 42.5	1.700	2.686	1.6	18.1	11 17	3 47.24	+19 58.3	1.908	2.895	1.4	20.5
11 27	3 36.86	+17 35.1	1.720	2.699	3.3	18.3	11 27	3 37.98	+19 37.4	1.920	2.900	2.7	20.6
12 7	3 26.95	+17 29.6	1.769	2.710	7.6	18.5	12 7	3 29.52	+19 17.1	1.961	2.906	6.7	20.9
12 17	3 19.01	+17 28.9	1.845	2.722	11.4	18.8	12 17	3 22.71	+19 0.6	2.030	2.911	10.3	21.1
12 27	3 13.68	+17 35.2	1.944	2.732	14.6	19.0	12 27	3 18.16	+18 50.7	2.122	2.917	13.4	21.3
66059	1998 <i>QZ</i> ₁₀₀		11 20.4 56°14'	0°8/20.0	18		160045	1999 <i>RU</i> ₁₈₃		11 20.4 57°50'	3°4/18.9	18	
10 18	4 10.23	+18 32.6	1.876	2.721	13.4	19.0	10 18	4 10.54	+13 15.2	1.519	2.377	15.3	19.6
10 28	4 4.21	+18 18.2	1.830	2.748	9.8	18.8	10 28	4 4.89	+12 38.2	1.468	2.391	11.3	19.4
11 7	3 56.24	+17 59.5	1.809	2.775	5.7	18.7	11 7	3 56.85	+12 0.8	1.439	2.404	6.9	19.2
11 17	3 47.17	+17 38.3	1.815	2.802	1.5	18.4	11 17	3 47.39	+11 27.0	1.436	2.418	3.5	19.0
11 27	3 38.07	+17 17.2	1.850	2.829	3.1	18.6	11 27	3 37.79	+11 1.3	1.461	2.433	5.2	19.2
12 7	3 29.97	+16 59.6	1.914	2.856	7.0	18.9	12 7	3 29.30	+10 47.4	1.513	2.447	9.3	19.5
12 17	3 23.68	+16 48.2	2.004	2.884	10.5	19.2	12 17	3 22.89	+10 47.1	1.589	2.462	13.2	19.7
12 27	3 19.70	+16 45.0	2.118	2.911	13.4	19.4	12 27	3 19.19	+11 1.1	1.686	2.476	16.5	20.0
455077	2015 <i>UH</i> ₅₀		11 20.4 104°81'	3°4/19.0	18		233280	2006 <i>AZ</i> ₆₀		11 20.4 3			

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
454719	2014 <i>SS</i> ₂₂₂		11 20.4	0°95	4.8/17.2	18	191179	2002 <i>NR</i> ₄₃		11 20.4	117°07	6°3/24.8	17
10 18	4 3.94	+12 39.4	1.654	2.520	13.9	19.8	10 18	4 12.99	+41 7.8	2.506	3.263	13.0	20.2
10 28	4 0.00	+10 56.1	1.592	2.518	10.3	19.6	10 28	4 6.50	+41 40.4	2.431	3.271	10.8	20.1
11 7	3 53.97	+9 9.3	1.554	2.517	6.7	19.4	11 7	3 57.81	+41 56.2	2.379	3.278	8.6	19.9
11 17	3 46.66	+7 26.8	1.542	2.517	4.8	19.3	11 17	3 47.71	+41 52.4	2.353	3.285	6.8	19.8
11 27	3 39.15	+5 56.6	1.558	2.518	6.6	19.4	11 27	3 37.29	+41 28.3	2.354	3.291	6.3	19.8
12 7	3 32.49	+4 45.6	1.601	2.520	10.1	19.6	12 7	3 27.71	+40 47.0	2.383	3.298	7.5	19.9
12 17	3 27.57	+3 57.3	1.668	2.523	13.6	19.8	12 17	3 19.92	+39 53.4	2.440	3.304	9.5	20.1
12 27	3 24.96	+3 32.5	1.755	2.527	16.7	20.0	12 27	3 14.58	+38 54.1	2.521	3.311	11.6	20.2
244632	2003 <i>BA</i> ₇₄		11 20.4	174°38	2°6/21.7	18	200148	1998 <i>HT</i> ₁₄₃		11 20.4	202°27	0°8/20.8	18
10 18	4 15.29	+27 29.8	2.084	2.899	13.4	21.0	10 18	4 12.28	+22 55.7	2.150	2.978	12.6	21.2
10 28	4 8.22	+27 44.7	2.006	2.902	10.2	20.8	10 28	4 5.92	+22 49.9	2.067	2.974	9.4	21.0
11 7	3 58.84	+27 49.0	1.953	2.904	6.6	20.6	11 7	3 57.46	+22 36.3	2.009	2.970	5.7	20.7
11 17	3 47.94	+27 41.4	1.927	2.906	3.3	20.4	11 17	3 47.63	+22 15.4	1.979	2.965	1.8	20.5
11 27	3 36.68	+27 22.6	1.931	2.907	3.4	20.4	11 27	3 37.44	+21 49.1	1.979	2.959	2.7	20.5
12 7	3 26.27	+26 55.7	1.965	2.908	6.8	20.6	12 7	3 27.97	+21 20.5	2.009	2.953	6.6	20.8
12 17	3 17.71	+26 25.6	2.027	2.908	10.4	20.8	12 17	3 20.14	+20 53.8	2.067	2.946	10.3	21.0
12 27	3 11.70	+25 57.2	2.113	2.907	13.4	21.0	12 27	3 14.62	+20 32.6	2.149	2.939	13.4	21.2
264871	2002 <i>RK</i> ₂₂₄		11 20.4	140°15	2°4/22.1	17	45568	2000 <i>CL</i> ₆₂		11 20.4	0°55	7°5/15.6	18
10 18	4 8.49	+29 30.6	2.524	3.335	11.4	20.3	10 18	4 4.61	+2 23.5	1.868	2.719	13.2	17.5
10 28	4 2.86	+29 22.1	2.447	3.339	8.8	20.2	10 28	4 0.27	+0 53.0	1.811	2.718	10.5	17.3
11 7	3 55.50	+29 2.7	2.394	3.343	5.8	20.0	11 7	3 54.07	+0 30.3	1.778	2.717	8.3	17.2
11 17	3 47.06	+28 32.2	2.370	3.347	3.0	19.8	11 17	3 46.73	+1 39.6	1.771	2.717	7.5	17.2
11 27	3 38.43	+27 52.4	2.375	3.351	3.0	19.8	11 27	3 39.18	+2 28.8	1.790	2.717	8.8	17.2
12 7	3 30.48	+27 6.8	2.410	3.354	5.7	20.0	12 7	3 32.38	+2 54.5	1.836	2.718	11.2	17.4
12 17	3 23.97	+26 19.5	2.474	3.358	8.6	20.2	12 17	3 27.10	+2 56.2	1.904	2.720	13.9	17.6
12 27	3 19.44	+25 34.9	2.563	3.361	11.2	20.4	12 27	3 23.92	+2 35.9	1.992	2.722	16.3	17.7
221389	2005 <i>YF</i> ₃₄		11 20.4	266°15	2°4/21.9	17	172984	2006 <i>HK</i> ₈₉		11 20.4	99°10	7°9/19.0	18
10 18	4 8.97	+28 32.4	2.233	3.053	12.5	20.4	10 18	4 20.11	+5 4.2	1.933	2.735	14.8	19.5
10 28	4 3.50	+28 26.7	2.148	3.046	9.5	20.2	10 28	4 11.32	+4 52.7	1.880	2.753	12.0	19.4
11 7	3 56.01	+28 9.5	2.087	3.040	6.2	20.0	11 7	4 0.44	+4 24.3	1.852	2.771	9.4	19.3
11 17	3 47.22	+27 40.6	2.054	3.033	3.1	19.8	11 17	3 48.35	+3 36.3	1.851	2.788	8.0	19.2
11 27	3 38.10	+27 1.6	2.049	3.026	3.2	19.8	11 27	3 36.20	+2 28.1	1.881	2.806	8.6	19.3
12 7	3 29.67	+26 16.2	2.074	3.020	6.3	20.0	12 7	3 25.13	+1 2.2	1.940	2.822	10.7	19.5
12 17	3 22.83	+25 29.3	2.127	3.013	9.7	20.2	12 17	3 16.02	+0 37.4	2.026	2.839	13.3	19.7
12 27	3 18.22	+24 45.7	2.204	3.006	12.7	20.4	12 27	3 9.43	+2 26.2	2.136	2.855	15.6	19.9
107992	2001 <i>FM</i> ₁₃₆		11 20.4	146°94	2°8/19.3	18	44892	1999 <i>VJ</i> ₈		11 20.4	31°83	7°4/24.8	18
10 18	4 12.94	+11 4.8	2.123	2.959	12.4	20.1	10 18	4 12.04	+38 57.9	1.362	2.173	19.3	16.2
10 28	4 6.19	+11 4.2	2.055	2.967	9.2	19.9	10 28	4 6.81	+39 2.9	1.309	2.188	15.7	16.0
11 7	3 57.49	+11 5.7	2.013	2.974	5.7	19.7	11 7	3 58.31	+38 40.3	1.275	2.204	11.8	15.9
11 17	3 47.59	+11 11.1	2.000	2.980	2.9	19.6	11 17	3 47.83	+37 47.7	1.263	2.220	8.4	15.7
11 27	3 37.45	+11 22.0	2.016	2.987	4.2	19.7	11 27	3 37.22	+36 27.6	1.276	2.238	7.4	15.7
12 7	3 28.08	+11 39.7	2.063	2.992	7.5	19.9	12 7	3 28.25	+34 49.2	1.314	2.256	9.6	15.9
12 17	3 20.30	+12 5.0	2.137	2.998	10.8	20.1	12 17	3 22.15	+33 4.1	1.377	2.275	13.1	16.1
12 27	3 14.71	+12 38.2	2.235	3.003	13.6	20.3	12 27	3 19.55	+31 23.7	1.462	2.295	16.4	16.4
512700	2016 <i>UW</i> ₇		11 20.4	146°27	1°5/21.3	17	514037	2014 <i>LH</i> ₂₉		11 20.4	119°80	3°5/18.5	18
10 18	4 14.72	+26 36.0	1.870	2.694	14.3	21.3	10 18	4 9.21	+9 17.3	2.390	3.227	11.2	21.8
10 28	4 7.78	+26 5.0	1.801	2.704	10.8	21.1	10 28	4 3.19	+8 49.6	2.332	3.242	8.3	21.7
11 7	3 58.51	+25 20.9	1.757	2.714	6.7	20.9	11 7	3 55.61	+8 24.3	2.300	3.257	5.4	21.5
11 17	3 47.86	+24 24.8	1.740	2.724	2.5	20.7	11 17	3 47.11	+8 4.2	2.297	3.271	3.5	21.4
11 27	3 37.04	+23 20.4	1.753	2.733	3.0	20.7	11 27	3 38.50	+7 51.9	2.323	3.285	4.6	21.5
12 7	3 27.31	+22 13.6	1.795	2.740	7.2	21.0	12 7	3 30.59	+7 49.3	2.379	3.298	7.3	21.7
12 17	3 19.60	+21 10.8	1.865	2.748	11.0	21.2	12 17	3 24.05	+7 57.2	2.463	3.311	10.0	21.9
12 27	3 14.55	+20 17.4	1.959	2.754	14.3	21.5	12 27	3 19.35	+8 15.7	2.569	3.323	12.4	22.1
335255	2005 <i>MB</i> ₃₀		11 20.4	145°30	1°1/20.9	18	332984	2011 <i>FG</i> ₆₇		11 20.4	316°86	2°9/21.8	17
10 18	4 13.61	+24 45.6	1.674	2.510	15.2	21.3	10 18	4 10.80	+27 55.4	2.282	3.098	12.3	20.4
10 28	4 7.24	+24 21.1	1.606	2.516	11.4	21.0	10 28	4 4.90	+28 28.7	2.200	3.095	9.5	20.2
11 7	3 58.33	+23 44.6	1.561	2.522	6.9	20.8	11 7	3 56.90	+28 53.2	2.142	3.092	6.3	20.0
11 17	3 47.83	+22 57.1	1.542	2.528	2.3	20.5	11 17	3 47.51	+29 7.1	2.112	3.088	3.5	19.8
11 27	3 37.09	+22 2.4	1.552	2.533	3.2	20.6	11 27	3 37.68	+29 10.4	2.111	3.085	3.5	19.8
12 7	3 27.43	+21 6.3	1.591	2.538	7.8	20.9	12 7	3 28.50	+29 4.7	2.140	3.082	6.4	20.0
12 17	3 19.93	+20 15.1	1.656	2.542	12.0	21.1	12 17	3 20.88	+28 53.6	2.196	3.079	9.6	20.2
12 27	3 15.27	+19 33.9	1.744	2.546	15.5	21.4	12 27	3 15.52	+28 41.2	2.277	3.076	12.4	20.4
111984	2002 <i>GJ</i> ₉₅		11 20.4	215°73	1°6/21.2	18	178414	1998 <i>RH</i> ₃₄		11 20.4	71°44	1°5/19.9	18
10 18	4 14.14	+25 46.3	1.582	2.419	15.9	19.9	10 18	4 15.52	+17 12.0	1.367	2.222	16.9	20.0
10 28	4 7.95	+25 28.3	1.504	2.414	12.0	19.6	10 28	4 8.66	+16 55.7	1.325	2.247	12.3	19.8
11 7	3 58.93	+24 56.7	1.449	2.409	7.5	19.4	11 7	3 59.10	+16 35.4	1.306	2.272	7.2	19.6
11 17	3 48.03	+24 11.6	1.419	2.404	2.8	19.1	11 17	3 48.01	+16 13.3	1.311	2.298	2.2	19.3
11 27	3 36.67	+23 16.4	1.418	2.398	3.5	19.1	11 27	3 36.92	+15 53.3	1.344	2.323	4.1	19.5
12 7	3 26.36	+22 17.1	1.444	2.392	8.3	19.4	12 7	3 27.28	+15 39.2	1.405	2.348	9.0	19.9
12 17	3 18.33	+21 21.0	1.497	2.386	12.8	19.6	12 17	3 20.13	+15 34.4	1.490	2.373	13.3	20.2
12 27	3 13.39	+20 34.6	1.571	2.379	16.7	19.9	12 27	3 16.06	+15 40.6	1.596	2.397	16.8	20.5
210764	2000 <i>WZ</i> ₁₃₄		11 20.4	65°05	5°1/22.5	18	127410	2002 <i>LF</i> ₄₅		11			

EPHEMERIDES

11 20.4

11 20.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
25747	2000 <i>AH</i> ₂₄₂		11 20.4 152°39	2°9/18.5	18		452564	2005 <i>AX</i> ₃₇		11 20.4 343°96	12°0/14.6	18	
10 18	4 9.09	+14 9.6	2.147	2.990	12.0	18.1	10 18	4 8.94	-17 6.9	2.130	2.901	14.6	20.1
10 28	4 3.32	+13 7.9	2.080	2.996	8.8	17.9	10 28	4 3.27	-17 57.1	2.080	2.897	13.2	20.0
11 7	3 55.78	+12 3.6	2.039	3.002	5.4	17.7	11 7	3 55.79	-18 25.3	2.051	2.894	12.3	19.9
11 17	3 47.17	+11 0.6	2.027	3.007	2.9	17.5	11 17	3 47.20	-18 25.8	2.044	2.891	12.1	19.9
11 27	3 38.41	+10 3.8	2.044	3.012	4.4	17.6	11 27	3 38.45	-17 55.4	2.061	2.888	12.7	19.9
12 7	3 30.41	+9 17.2	2.091	3.017	7.7	17.9	12 7	3 30.45	-16 54.7	2.100	2.886	13.9	20.0
12 17	3 23.92	+8 43.9	2.165	3.021	10.9	18.1	12 17	3 23.98	-15 27.2	2.161	2.884	15.4	20.1
12 27	3 19.49	+8 25.1	2.262	3.024	13.6	18.3	12 27	3 19.60	-13 38.2	2.240	2.882	16.9	20.2
42946	1999 <i>TU</i> ₉₅		11 20.4 227°57	2°6/19.2	18		454347	2014 <i>LB</i> ₂₁		11 20.4 302°10	13°7/20.2	16	
10 18	4 10.32	+14 9.0	1.865	2.713	13.4	18.1	10 18	4 24.74	-9 6.6	1.013	1.844	23.2	20.8
10 28	4 4.62	+13 38.6	1.790	2.709	9.9	17.9	10 28	4 16.92	-8 58.1	0.948	1.833	19.7	20.5
11 7	3 56.74	+13 6.4	1.739	2.704	6.0	17.6	11 7	4 4.86	-8 13.6	0.900	1.823	16.2	20.3
11 17	3 47.46	+12 35.2	1.716	2.699	2.8	17.4	11 17	3 49.72	-6 43.2	0.873	1.814	13.9	20.1
11 27	3 37.83	+12 9.0	1.721	2.694	4.4	17.5	11 27	3 33.61	-4 24.1	0.869	1.804	14.5	20.1
12 7	3 28.97	+11 51.1	1.754	2.688	8.3	17.7	12 7	3 18.94	-1 24.3	0.889	1.795	17.7	20.2
12 17	3 21.84	+11 44.2	1.814	2.682	12.0	18.0	12 17	3 7.61	+2 1.4	0.932	1.786	21.8	20.5
12 27	3 17.10	+11 49.7	1.895	2.677	15.2	18.2	12 27	3 0.76	+5 38.1	0.994	1.778	25.8	20.7
444532	2006 <i>SD</i> ₁₆₅		11 20.4 53°38	2°8/21.9	17		428177	2006 <i>TT</i> ₇₁		11 20.4 70°43	4°6/18.7	15	
10 18	4 10.99	+28 34.0	1.851	2.677	14.4	21.6	10 18	4 14.58	+11 37.4	1.287	2.147	17.4	20.7
10 28	4 5.29	+28 33.8	1.778	2.679	11.0	21.4	10 28	4 7.97	+10 47.6	1.250	2.173	12.8	20.5
11 7	3 57.20	+28 20.6	1.728	2.681	7.2	21.2	11 7	3 58.69	+9 59.8	1.234	2.198	8.0	20.3
11 17	3 47.58	+27 53.6	1.704	2.683	3.6	20.9	11 17	3 47.93	+9 19.3	1.244	2.223	4.7	20.2
11 27	3 37.63	+27 14.9	1.708	2.685	3.6	21.0	11 27	3 37.23	+8 51.7	1.280	2.248	6.4	20.4
12 7	3 28.61	+26 28.8	1.741	2.688	7.2	21.2	12 7	3 28.01	+8 40.3	1.343	2.273	10.6	20.7
12 17	3 21.55	+25 41.2	1.800	2.690	11.0	21.4	12 17	3 21.29	+8 46.3	1.428	2.298	14.6	21.0
12 27	3 17.13	+24 57.9	1.883	2.692	14.2	21.6	12 27	3 17.62	+9 8.7	1.534	2.323	17.9	21.3
363512	2003 <i>US</i> ₈₀		11 20.4 37°78	4°8/17.7	18		454585	2014 <i>PZ</i> ₂₈		11 20.4 43°71	1°4/19.7	18	
10 18	4 6.23	+9 38.1	1.787	2.644	13.4	20.5	10 18	4 8.28	+16 57.5	1.908	2.757	13.1	21.0
10 28	4 1.40	+8 30.2	1.741	2.660	10.0	20.3	10 28	4 2.99	+16 37.6	1.846	2.765	9.6	20.8
11 7	3 54.69	+7 24.7	1.718	2.677	6.7	20.1	11 7	3 55.70	+16 14.3	1.808	2.775	5.6	20.6
11 17	3 46.88	+6 27.0	1.722	2.694	4.8	20.0	11 17	3 47.19	+15 49.9	1.798	2.784	1.8	20.3
11 27	3 39.01	+5 42.4	1.754	2.712	6.2	20.2	11 27	3 38.49	+15 27.4	1.816	2.794	3.4	20.5
12 7	3 32.04	+5 14.2	1.813	2.730	9.3	20.4	12 7	3 30.62	+15 10.0	1.863	2.804	7.3	20.7
12 17	3 26.74	+5 3.8	1.896	2.749	12.4	20.6	12 17	3 24.43	+15 0.3	1.936	2.814	10.9	21.0
12 27	3 23.62	+5 10.8	2.001	2.768	15.0	20.9	12 27	3 20.50	+15 0.2	2.032	2.825	14.0	21.2
422432	2014 <i>SY</i> ₂₉₀		11 20.4 2°05	11°7/24.2	17		260876	2005 <i>QN</i> ₁₂₇		11 20.4 57°32	0°8/20.8	18	
10 18	4 22.48	+46 43.1	1.880	2.617	17.4	20.5	10 18	4 9.88	+22 56.6	1.867	2.706	13.7	21.1
10 28	4 15.31	+48 56.9	1.810	2.616	15.4	20.3	10 28	4 4.30	+22 47.7	1.801	2.714	10.2	20.9
11 7	4 4.07	+50 50.6	1.760	2.615	13.4	20.2	11 7	3 56.54	+22 30.3	1.758	2.721	6.1	20.7
11 17	3 49.56	+52 14.1	1.734	2.616	12.0	20.1	11 17	3 47.42	+22 5.4	1.742	2.729	1.9	20.4
11 27	3 33.59	+53 0.5	1.732	2.617	11.8	20.1	11 27	3 38.06	+21 35.5	1.756	2.736	2.8	20.5
12 7	3 18.45	+53 9.7	1.755	2.619	12.7	20.2	12 7	3 29.60	+21 4.6	1.797	2.744	7.0	20.8
12 17	3 6.22	+52 48.2	1.800	2.621	14.3	20.3	12 17	3 22.95	+20 36.8	1.865	2.752	10.8	21.0
12 27	2 58.30	+52 7.0	1.865	2.624	16.3	20.4	12 27	3 18.76	+20 16.0	1.957	2.760	14.0	21.3
493876	2015 <i>XO</i> ₁₀₉		11 20.4 359°07	5°4/18.1	18		246257	2007 <i>TS</i> ₁₃		11 20.4 33°43	0°5/20.7	18	
10 18	4 8.40	+5 4.6	1.952	2.797	13.0	21.3	10 18	4 9.35	+26 11.9	1.199	2.059	18.4	18.7
10 28	4 3.03	+4 38.3	1.887	2.797	10.0	21.2	10 28	4 4.44	+24 54.0	1.160	2.083	13.6	18.5
11 7	3 55.72	+4 18.6	1.845	2.796	7.0	21.0	11 7	3 56.69	+23 18.8	1.141	2.108	8.1	18.3
11 17	3 47.18	+4 9.3	1.830	2.796	5.4	20.9	11 17	3 47.42	+21 32.1	1.147	2.134	2.3	18.0
11 27	3 38.39	+4 13.4	1.844	2.796	6.5	21.0	11 27	3 38.26	+19 43.5	1.179	2.161	3.6	18.2
12 7	3 30.33	+4 32.5	1.884	2.796	9.3	21.1	12 7	3 30.70	+18 3.7	1.237	2.188	9.0	18.6
12 17	3 23.83	+5 6.3	1.950	2.797	12.3	21.3	12 17	3 25.71	+16 40.7	1.320	2.217	13.6	18.9
12 27	3 19.51	+5 53.6	2.038	2.797	15.0	21.5	12 27	3 23.79	+15 39.2	1.423	2.246	17.3	19.2
234357	2001 <i>JA</i> ₅		11 20.4 61°49	3°9/18.9	18		410847	2009 <i>RG</i> ₁₇		11 20.4 128°99	4°4/22.7	17	
10 18	4 10.40	+7 10.1	2.153	2.991	12.2	19.8	10 18	4 12.97	+32 49.3	2.321	3.118	12.8	21.7
10 28	4 4.23	+7 10.5	2.096	3.006	9.1	19.6	10 28	4 6.51	+33 27.7	2.245	3.122	10.1	21.5
11 7	3 56.30	+7 16.2	2.065	3.020	6.0	19.4	11 7	3 57.87	+33 54.0	2.193	3.127	7.2	21.3
11 17	3 47.32	+7 29.1	2.061	3.035	4.0	19.3	11 17	3 47.79	+34 5.5	2.168	3.131	4.9	21.2
11 27	3 38.20	+7 50.8	2.087	3.049	5.0	19.4	11 27	3 37.33	+34 2.0	2.172	3.135	4.7	21.2
12 7	3 29.84	+8 21.9	2.142	3.064	7.8	19.6	12 7	3 27.60	+33 45.5	2.205	3.139	6.8	21.3
12 17	3 22.99	+9 2.1	2.225	3.079	10.7	19.9	12 17	3 19.58	+33 20.3	2.266	3.143	9.6	21.5
12 27	3 18.20	+9 50.6	2.330	3.094	13.3	20.1	12 27	3 13.94	+32 51.7	2.351	3.147	12.2	21.7
128716	2004 <i>RP</i> ₁₁₈		11 20.4 127°51	0°6/20.8	18		523248	2017 <i>AB</i> ₂₂		11 20.5 177°68	5°3/16.8	18	
10 18	4 9.06	+22 44.6	2.130	2.965	12.4	21.1	10 18	4 6.77	+3 53.7	2.529	3.363	10.7	22.4
10 28	4 3.52	+22 35.0	2.055	2.966	9.2	20.9	10 28	4 1.43	+2 55.4	2.463	3.364	8.3	22.3
11 7	3 56.02	+22 17.9	2.005	2.967	5.6	20.7	11 7	3 54.62	+2 2.0	2.424	3.365	6.2	22.1
11 17	3 47.28	+21 54.1	1.982	2.968	1.7	20.5	11 17	3 46.92	+1 17.6	2.412	3.366	5.3	22.1
11 27	3 38.26	+21 25.8	1.989	2.969	2.6	20.5	11 27	3 39.05	+0 45.9	2.430	3.366	6.3	22.1
12 7	3 29.98	+20 56.4	2.025	2.970	6.5	20.8	12 7	3 31.75	+0 29.3	2.477	3.366	8.4	22.3
12 17	3 23.28	+20 29.5	2.088	2.971	10.0	21.0	12 17	3 25.66	+0 28.4	2.549	3.366	10.8	22.4
12 27	3 18.78	+20 8.8	2.175	2.972	13.0	21.2	12 27	3 21.26	+0 42.8	2.643	3.365	12.9	22.6
392230	2009 <i>VG</i> ₄₄		11 20.4 7°30	4°2/18.7	18		469836	2005 <i>SS</i> ₂₅₆		11 20.5 58°45	0°7/20		

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
21456	Myers		11 20.5 183°23	1°2/19.9	18		130790	2000 TW ₂₀		11 20.5 99°42	3°5/19.3	18	
10 18	4 13.76	+18 18.9	1.815	2.655	14.0	19.8	10 18	4 16.73	+12 28.9	1.441	2.292	16.4	20.1
10 28	4 7.21	+17 50.4	1.741	2.656	10.3	19.6	10 28	4 9.50	+12 5.3	1.394	2.313	12.1	19.9
11 7	3 58.31	+17 16.2	1.691	2.656	6.1	19.3	11 7	3 59.64	+11 42.7	1.370	2.333	7.4	19.7
11 17	3 47.92	+16 38.4	1.669	2.656	1.8	19.1	11 17	3 48.26	+11 24.3	1.371	2.353	3.7	19.5
11 27	3 37.20	+16 0.8	1.677	2.655	3.6	19.2	11 27	3 36.81	+11 13.8	1.401	2.373	5.4	19.6
12 7	3 27.39	+15 27.6	1.713	2.653	8.0	19.4	12 7	3 26.69	+11 14.1	1.458	2.392	9.6	19.9
12 17	3 19.49	+15 2.9	1.776	2.650	12.0	19.7	12 17	3 18.95	+11 26.5	1.540	2.410	13.7	20.2
12 27	3 14.19	+14 49.5	1.862	2.647	15.3	19.9	12 27	3 14.22	+11 51.4	1.643	2.428	17.0	20.5
261609	2005 XH ₁₁₂		11 20.5 255°34	4°5/18.0	18		74076	1998 MT ₃₃		11 20.5 84°15	3°0/19.2	18	
10 18	4 7.57	+ 6 50.6	2.251	3.093	11.6	20.3	10 18	4 12.39	+12 24.4	1.745	2.593	14.1	19.6
10 28	4 2.25	+ 6 19.0	2.179	3.089	8.8	20.1	10 28	4 6.03	+12 6.3	1.693	2.610	10.4	19.4
11 7	3 55.22	+ 5 51.5	2.132	3.085	6.1	20.0	11 7	3 57.51	+11 49.1	1.664	2.627	6.4	19.2
11 17	3 47.10	+ 5 31.5	2.112	3.081	4.5	19.9	11 17	3 47.71	+11 35.5	1.663	2.645	3.2	19.0
11 27	3 38.73	+ 5 22.0	2.122	3.076	5.6	19.9	11 27	3 37.79	+11 28.3	1.690	2.662	4.6	19.2
12 7	3 30.97	+ 5 25.0	2.159	3.072	8.3	20.1	12 7	3 28.88	+11 30.1	1.746	2.679	8.4	19.4
12 17	3 24.56	+ 5 41.2	2.223	3.068	11.1	20.3	12 17	3 21.88	+11 42.0	1.827	2.696	12.0	19.7
12 27	3 20.06	+ 6 10.2	2.310	3.063	13.6	20.4	12 27	3 17.37	+12 4.5	1.931	2.712	15.0	19.9
148537	2001 QJ ₉₁		11 20.5 105°27	3°2/22.1	18		347522	1999 TN ₁₃₉		11 20.5 35°55	1°4/19.9	16	
10 18	4 14.93	+29 32.5	1.621	2.446	16.1	20.3	10 18	4 9.57	+19 12.5	1.296	2.161	17.0	20.2
10 28	4 8.36	+29 27.7	1.559	2.459	12.3	20.1	10 28	4 4.58	+18 33.2	1.249	2.176	12.4	20.0
11 7	3 59.07	+29 7.1	1.519	2.472	8.1	19.8	11 7	3 56.88	+17 46.6	1.224	2.193	7.3	19.8
11 17	3 48.11	+28 29.8	1.505	2.484	4.1	19.6	11 17	3 47.57	+16 56.4	1.223	2.210	2.1	19.5
11 27	3 36.95	+27 38.6	1.519	2.496	4.0	19.7	11 27	3 38.15	+16 8.4	1.249	2.228	4.2	19.7
12 7	3 27.03	+26 39.6	1.560	2.507	7.9	19.9	12 7	3 30.05	+15 28.5	1.300	2.246	9.2	20.0
12 17	3 19.46	+25 40.0	1.628	2.519	11.9	20.2	12 17	3 24.33	+15 1.2	1.375	2.266	13.6	20.4
12 27	3 14.93	+24 46.9	1.719	2.530	15.3	20.4	12 27	3 21.60	+14 49.0	1.471	2.285	17.3	20.6
240829	2006 BG ₂₄		11 20.5 44°28	0°9/20.2	18		452790	2006 FL ₅₀		11 20.5 229°28	3°6/18.7	18	
10 18	4 13.94	+19 22.7	0.951	1.828	20.7	19.4	10 18	4 9.93	+ 6 32.2	2.749	3.577	10.1	21.3
10 28	4 8.48	+19 6.5	0.912	1.845	15.2	19.2	10 28	4 3.76	+ 6 28.5	2.664	3.567	7.7	21.1
11 7	3 59.42	+18 42.2	0.893	1.863	8.9	18.9	11 7	3 56.07	+ 6 29.3	2.606	3.557	5.2	21.0
11 17	3 48.21	+18 12.3	0.895	1.882	2.3	18.6	11 17	3 47.37	+ 6 36.4	2.577	3.547	3.6	20.8
11 27	3 36.91	+17 42.4	0.921	1.902	4.6	18.8	11 27	3 38.38	+ 6 51.5	2.578	3.536	4.5	20.9
12 7	3 27.48	+17 18.8	0.971	1.923	10.7	19.2	12 7	3 29.86	+ 7 15.4	2.611	3.525	6.9	21.0
12 17	3 21.24	+17 6.4	1.042	1.944	15.9	19.6	12 17	3 22.48	+ 7 48.4	2.671	3.513	9.5	21.2
12 27	3 18.82	+17 8.1	1.132	1.965	20.2	19.9	12 27	3 16.77	+ 8 30.1	2.757	3.501	11.9	21.3
56504	2000 GT ₁₆₆		11 20.5 26°99	2°0/21.0	18		227028	2005 AD ₁₀		11 20.5 193°32	13°0/27.4	18	
10 18	4 13.75	+22 49.6	1.273	2.129	17.8	18.7	10 18	4 24.80	+48 43.4	1.306	2.063	22.7	20.2
10 28	4 8.11	+23 23.3	1.215	2.135	13.4	18.4	10 28	4 17.70	+49 35.0	1.236	2.063	19.9	20.0
11 7	3 59.24	+23 48.4	1.177	2.142	8.3	18.2	11 7	4 5.58	+49 51.7	1.182	2.062	16.8	19.8
11 17	3 48.22	+24 3.1	1.164	2.149	3.1	17.9	11 17	3 49.98	+49 22.1	1.148	2.061	14.2	19.7
11 27	3 36.73	+24 7.7	1.176	2.157	3.9	18.0	11 27	3 33.65	+48 1.7	1.135	2.059	13.0	19.6
12 7	3 26.53	+24 5.6	1.214	2.165	9.1	18.3	12 7	3 19.54	+45 57.9	1.145	2.057	14.0	19.7
12 17	3 19.01	+24 1.9	1.276	2.174	13.9	18.6	12 17	3 9.72	+43 27.0	1.179	2.054	16.6	19.8
12 27	3 15.00	+24 1.8	1.359	2.184	17.9	18.9	12 27	3 5.07	+40 48.9	1.233	2.051	19.8	20.0
64744	2001 XM ₁₄₈		11 20.5 36°67	3°3/19.5	18		302575	2002 PU ₁₀₃		11 20.5 75°33	2°1/19.3	18	
10 18	4 12.38	+14 37.4	1.019	1.896	19.5	18.4	10 18	4 10.96	+17 10.1	1.719	2.568	14.2	20.6
10 28	4 7.22	+14 12.5	0.974	1.907	14.4	18.2	10 28	4 4.96	+16 17.2	1.670	2.589	10.4	20.4
11 7	3 58.68	+13 46.1	0.949	1.919	8.7	17.9	11 7	3 56.85	+15 19.8	1.645	2.611	6.1	20.2
11 17	3 48.04	+13 22.5	0.946	1.931	3.6	17.7	11 17	3 47.55	+14 21.9	1.647	2.632	2.3	20.0
11 27	3 37.17	+13 6.9	0.968	1.945	5.8	17.8	11 27	3 38.22	+13 28.5	1.678	2.653	4.1	20.2
12 7	3 27.91	+13 3.5	1.013	1.959	11.2	18.2	12 7	3 29.98	+12 44.5	1.738	2.675	8.1	20.5
12 17	3 21.56	+13 14.8	1.080	1.973	16.2	18.5	12 17	3 23.66	+12 13.3	1.823	2.695	11.8	20.8
12 27	3 18.85	+13 41.2	1.165	1.988	20.3	18.8	12 27	3 19.80	+11 56.7	1.930	2.716	14.8	21.0
130946	2000 WT ₆₁		11 20.5 345°85	4°6/19.2	18		26095	1988 PU		11 20.5 135°93	1°2/21.3	18	
10 18	4 6.76	+10 37.0	1.119	2.000	17.9	18.3	10 18	4 11.13	+26 18.1	2.144	2.968	12.8	18.0
10 28	4 3.24	+10 28.3	1.052	1.985	13.5	18.0	10 28	4 4.96	+25 43.2	2.074	2.977	9.6	17.8
11 7	3 56.53	+10 24.4	1.004	1.972	8.6	17.7	11 7	3 56.84	+24 56.9	2.028	2.986	5.9	17.6
11 17	3 47.57	+10 29.3	0.979	1.961	4.8	17.4	11 17	3 47.57	+24 0.5	2.010	2.995	2.1	17.3
11 27	3 37.89	+10 47.2	0.977	1.951	6.6	17.5	11 27	3 38.15	+22 57.6	2.023	3.003	2.6	17.4
12 7	3 29.24	+11 20.2	0.999	1.943	11.6	17.7	12 7	3 29.60	+21 53.1	2.065	3.011	6.4	17.7
12 17	3 23.07	+12 8.4	1.042	1.936	16.6	18.0	12 17	3 22.75	+20 52.4	2.136	3.018	9.8	17.9
12 27	3 20.38	+13 10.7	1.103	1.932	20.9	18.3	12 27	3 18.16	+20 0.1	2.231	3.025	12.8	18.1
515334	2013 AN ₅₅		11 20.5 66°94	5°0/18.9	18		461400	2001 SC ₂₀₃		11 20.5 105°60	1°8/19.7	17	
10 18	4 13.95	+ 6 16.5	1.657	2.501	14.9	20.0	10 18	4 16.37	+17 26.3	1.362	2.215	17.0	21.3
10 28	4 7.16	+ 6 9.9	1.612	2.523	11.3	19.8	10 28	4 9.48	+16 54.8	1.311	2.232	12.5	21.1
11 7	3 58.15	+ 6 10.8	1.590	2.545	7.5	19.7	11 7	3 59.75	+16 17.8	1.282	2.248	7.4	20.8
11 17	3 47.86	+ 6 22.0	1.594	2.567	5.1	19.6	11 17	3 48.34	+15 38.8	1.278	2.264	2.4	20.6
11 27	3 37.51	+ 6 45.3	1.627	2.588	6.2	19.7	11 27	3 36.79	+15 2.5	1.302	2.280	4.4	20.8
12 7	3 28.26	+ 7 21.1	1.688	2.610	9.5	19.9	12 7	3 26.65	+14 34.0	1.353	2.295	9.4	21.1
12 17	3 21.03	+ 8 8.5	1.774	2.632	12.8	20.2	12 17	3 19.03	+14 17.3	1.429	2.309	13.9	21.4
12 27	3 16.37	+ 9 5.8	1.882	2.653	15.7	20.5	12 27	3 14.59	+14 14.6	1.525	2.323	17.6	21.7
402351	2005 VY ₃₁		11 20.5 351°98	0°7/20.2	18		294773	2008 CV ₃₅		11 20.5 326°79	2°9/19.0	18	
10 18	4 9.17	+											

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
60115	1999 <i>TK</i> ₂₂₂		11 20.5	53°46'	0°4'/20.7	18	26817	1987 <i>QB</i>		11 20.5	36°72'	2°8'/19.5	15 C
10 18	4 8.45	+23 42.8	1.941	2.780	13.3	18.6	10 18	4 26.57	+15 41.6	1.115	1.965	20.2	21.9
10 28	4 3.15	+23 4.3	1.876	2.789	9.8	18.4	10 28	4 15.80	+14 57.8	1.121	2.040	14.3	21.8
11 7	3 55.84	+22 15.7	1.835	2.798	5.9	18.2	11 7	4 2.67	+14 13.5	1.149	2.115	8.3	21.7
11 17	3 47.32	+21 19.4	1.821	2.807	1.7	18.0	11 17	3 48.90	+13 33.0	1.203	2.188	3.2	21.6
11 27	3 38.64	+20 19.3	1.836	2.817	2.7	18.1	11 27	3 36.26	+13 1.4	1.285	2.260	5.1	21.9
12 7	3 30.86	+19 20.6	1.880	2.826	6.8	18.3	12 7	3 26.07	+12 42.2	1.394	2.331	9.6	22.4
12 17	3 24.81	+18 28.3	1.951	2.836	10.5	18.6	12 17	3 19.01	+12 36.9	1.527	2.401	13.6	22.8
12 27	3 21.05	+17 46.4	2.046	2.846	13.6	18.8	12 27	3 15.26	+12 45.1	1.681	2.470	16.6	23.2
117972	1055 <i>T</i> ₋₁		11 20.5	293°36'	4°6'/17.7	17	185007	2006 <i>PV</i> ₁₆		11 20.5	26°83'	3°8'/21.9	18
10 18	4 8.56	+12 4.1	1.748	2.603	13.8	19.7	10 18	4 12.18	+28 8.5	1.089	1.947	20.0	19.7
10 28	4 3.70	+10 47.4	1.653	2.574	10.4	19.4	10 28	4 7.38	+28 22.8	1.037	1.955	15.3	19.5
11 7	3 56.47	+9 26.0	1.583	2.544	6.8	19.1	11 7	3 58.96	+28 18.9	1.004	1.964	10.0	19.2
11 17	3 47.57	+8 5.7	1.538	2.515	4.6	18.9	11 17	3 48.22	+27 55.1	0.993	1.974	4.9	19.0
11 27	3 38.06	+6 53.5	1.522	2.485	6.4	19.0	11 27	3 37.10	+27 14.2	1.006	1.985	5.0	19.0
12 7	3 29.16	+5 56.3	1.534	2.455	10.3	19.1	12 7	3 27.59	+26 23.7	1.043	1.997	9.8	19.3
12 17	3 21.95	+5 18.5	1.570	2.425	14.4	19.3	12 17	3 21.14	+25 32.9	1.103	2.009	14.8	19.7
12 27	3 17.25	+5 2.2	1.626	2.394	17.9	19.5	12 27	3 18.53	+24 50.0	1.182	2.023	19.0	20.0
196049	2002 <i>SS</i> ₆₁		11 20.5	29°38'	5°9'/24.1	17	179701	2002 <i>RU</i> ₃₁		11 20.5	64°25'	4°1'/18.7	18
10 18	4 11.15	+38 3.3	2.168	2.952	14.0	19.6	10 18	4 12.23	+13 56.7	1.293	2.157	17.1	19.6
10 28	4 5.41	+38 31.1	2.094	2.956	11.4	19.5	10 28	4 6.43	+12 51.3	1.249	2.175	12.5	19.4
11 7	3 57.33	+38 41.9	2.043	2.961	8.7	19.3	11 7	3 57.94	+11 44.1	1.227	2.193	7.7	19.2
11 17	3 47.74	+38 33.0	2.017	2.965	6.5	19.2	11 17	3 47.90	+10 41.3	1.230	2.211	4.2	19.0
11 27	3 37.82	+38 4.4	2.018	2.970	6.0	19.2	11 27	3 37.80	+9 49.8	1.259	2.229	6.1	19.2
12 7	3 28.77	+37 19.5	2.047	2.976	7.6	19.3	12 7	3 29.08	+9 15.0	1.314	2.247	10.5	19.5
12 17	3 21.62	+36 23.9	2.103	2.981	10.2	19.4	12 17	3 22.77	+8 59.5	1.392	2.266	14.7	19.8
12 27	3 17.04	+35 24.7	2.182	2.987	12.7	19.6	12 27	3 19.47	+9 3.2	1.490	2.284	18.1	20.1
106950	2000 <i>YW</i> ₇₆		11 20.5	312°78'	4°2'/19.2	18	72762	2001 <i>FT</i> ₁₄₂		11 20.5	198°45'	4°2'/23.3	17
10 18	4 12.35	+11 17.6	1.278	2.143	17.2	19.2	10 18	4 10.60	+34 42.9	2.467	3.257	12.3	19.9
10 28	4 7.06	+10 59.7	1.208	2.133	12.9	18.9	10 28	4 4.69	+34 51.9	2.383	3.256	9.8	19.7
11 7	3 58.69	+10 44.3	1.159	2.124	8.2	18.6	11 7	3 56.80	+34 46.9	2.324	3.254	7.1	19.5
11 17	3 48.16	+10 35.2	1.134	2.115	4.4	18.4	11 17	3 47.63	+34 26.5	2.291	3.253	4.8	19.4
11 27	3 37.01	+10 36.6	1.135	2.107	6.2	18.5	11 27	3 38.16	+33 51.5	2.287	3.251	4.4	19.3
12 7	3 26.88	+10 51.5	1.161	2.099	11.1	18.7	12 7	3 29.41	+33 4.8	2.313	3.249	6.4	19.5
12 17	3 19.17	+11 21.1	1.210	2.091	15.8	19.0	12 17	3 22.24	+32 11.5	2.366	3.247	9.1	19.6
12 27	3 14.79	+12 5.4	1.278	2.084	19.9	19.2	12 27	3 17.28	+31 17.2	2.445	3.245	11.7	19.8
236620	2006 <i>KZ</i>		11 20.5	229°18'	2°4'/19.2	18	319306	2006 <i>BC</i> ₁₂₇		11 20.5	155°74'	2°3'/19.0	18
10 18	4 10.81	+14 15.5	2.153	2.993	12.1	20.6	10 18	4 7.13	+13 45.5	2.467	3.308	10.7	21.5
10 28	4 4.84	+13 44.1	2.067	2.981	9.0	20.4	10 28	4 1.82	+13 12.9	2.396	3.311	7.9	21.4
11 7	3 56.90	+13 10.5	2.006	2.969	5.5	20.1	11 7	3 54.96	+12 39.2	2.351	3.314	4.8	21.2
11 17	3 47.64	+12 37.4	1.974	2.957	2.6	19.9	11 17	3 47.13	+12 6.9	2.334	3.316	2.4	21.0
11 27	3 38.00	+12 8.0	1.971	2.944	4.0	20.0	11 27	3 39.12	+11 38.9	2.348	3.319	3.6	21.1
12 7	3 28.99	+11 45.9	1.998	2.930	7.6	20.2	12 7	3 31.72	+11 17.9	2.391	3.321	6.6	21.3
12 17	3 21.47	+11 33.5	2.053	2.915	11.1	20.4	12 17	3 25.58	+11 5.8	2.462	3.323	9.5	21.5
12 27	3 16.11	+11 32.6	2.130	2.900	14.1	20.6	12 27	3 21.22	+11 3.9	2.556	3.325	12.1	21.7
43651	2002 <i>EU</i> ₈₇		11 20.5	140°31'	1°3'/19.6	18	105108	2000 <i>LS</i> ₁₅		11 20.5	178°16'	0°0'/20.4	18
10 18	4 8.19	+16 28.4	2.655	3.489	10.3	20.3	10 18	4 9.60	+22 0.2	2.377	3.207	11.5	20.5
10 28	4 2.46	+16 3.6	2.587	3.499	7.5	20.1	10 28	4 3.74	+21 28.1	2.300	3.209	8.5	20.3
11 7	3 55.25	+15 36.2	2.546	3.509	4.4	19.9	11 7	3 56.14	+20 48.7	2.247	3.210	5.0	20.1
11 17	3 47.17	+15 8.0	2.533	3.519	1.6	19.8	11 17	3 47.46	+20 3.4	2.224	3.210	1.3	19.9
11 27	3 38.95	+14 41.5	2.552	3.528	2.8	19.9	11 27	3 38.56	+19 15.4	2.231	3.211	2.5	19.9
12 7	3 31.34	+14 19.3	2.601	3.536	5.9	20.1	12 7	3 30.36	+18 28.5	2.268	3.210	6.1	20.2
12 17	3 24.97	+14 3.3	2.678	3.544	8.7	20.3	12 17	3 23.59	+17 46.5	2.333	3.210	9.4	20.4
12 27	3 20.31	+13 55.3	2.781	3.552	11.1	20.5	12 27	3 18.81	+17 12.6	2.423	3.208	12.2	20.6
97588	2000 <i>EL</i> ₃₃		11 20.5	27°89'	2°5'/19.3	18	283851	2003 <i>UU</i> ₂₁₂		11 20.5	61°70'	1°9'/21.0	18
10 18	4 7.88	+13 31.2	1.854	2.707	13.2	18.7	10 18	4 19.38	+22 0.6	1.530	2.366	16.4	19.8
10 28	4 2.77	+13 14.7	1.795	2.715	9.7	18.5	10 28	4 11.58	+22 54.7	1.485	2.395	12.1	19.6
11 7	3 55.65	+12 58.1	1.759	2.724	5.9	18.3	11 7	4 0.99	+23 41.6	1.463	2.423	7.4	19.4
11 17	3 47.30	+12 43.9	1.750	2.733	2.7	18.1	11 17	3 48.73	+24 18.6	1.468	2.452	2.8	19.2
11 27	3 38.73	+12 35.0	1.769	2.743	4.2	18.2	11 27	3 36.31	+24 45.0	1.501	2.481	3.5	19.3
12 7	3 31.00	+12 33.7	1.817	2.753	7.8	18.5	12 7	3 25.26	+25 2.8	1.563	2.509	8.0	19.6
12 17	3 24.94	+12 41.7	1.890	2.764	11.3	18.7	12 17	3 16.70	+25 15.9	1.651	2.537	12.0	19.9
12 27	3 21.14	+12 59.7	1.985	2.775	14.3	18.9	12 27	3 11.30	+25 28.6	1.762	2.565	15.3	20.2
304986	2007 <i>TP</i> ₂₁₈		11 20.5	87°77'	0°7'/20.8	18	330943	2009 <i>SC</i> ₂₆₇		11 20.5	187°44'	6°1'/23.4	17
10 18	4 12.37	+22 7.5	1.794	2.633	14.2	21.0	10 18	4 16.24	+37 43.4	2.423	3.193	13.1	20.4
10 28	4 6.24	+22 10.9	1.730	2.643	10.5	20.8	10 28	4 9.19	+38 47.8	2.342	3.193	10.7	20.2
11 7	3 57.78	+22 6.9	1.689	2.652	6.3	20.5	11 7	3 59.69	+39 38.6	2.283	3.193	8.4	20.1
11 17	3 47.87	+21 55.7	1.675	2.662	1.9	20.3	11 17	3 48.46	+40 11.5	2.252	3.192	6.5	20.0
11 27	3 37.68	+21 39.4	1.690	2.671	2.9	20.4	11 27	3 36.64	+40 24.4	2.249	3.192	6.3	20.0
12 7	3 28.45	+21 21.2	1.734	2.680	7.3	20.7	12 7	3 25.48	+40 18.6	2.275	3.191	7.8	20.1
12 17	3 21.16	+21 5.1	1.804	2.690	11.2	20.9	12 17	3 16.09	+39 58.3	2.329	3.190	10.0	20.2
12 27	3 16.48	+20 54.8	1.897	2.699	14.4	21.2	12 27	3 9.29	+39 29.7	2.406	3.189	12.3	20.4
485461	2011 <i>RH</i> ₁₆		11 20.5	18°52'	11°5'/15.5	18	303622	2005 <i>JB</i> ₅₄		11 20.5</			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
198024	2004 <i>RB</i> ₂₂₆		11 20.5 121°87	1°8/21.3	18		180282	2003 <i>WC</i> ₇₈		11 20.5 79°81	2°7/21.5	18	
10 18	4 15.06	+25 17.1	1.865	2.691	14.3	21.2	10 18	4 15.49	+26 4.6	1.377	2.219	17.5	20.4
10 28	4 8.16	+25 21.7	1.801	2.705	10.7	21.0	10 28	4 9.28	+26 18.8	1.316	2.227	13.3	20.2
11 7	3 58.90	+25 16.2	1.762	2.719	6.7	20.8	11 7	3 59.93	+26 20.1	1.276	2.235	8.4	20.0
11 17	3 48.20	+25 0.2	1.749	2.733	2.7	20.6	11 17	3 48.54	+26 6.9	1.260	2.243	3.7	19.7
11 27	3 37.27	+24 35.5	1.766	2.746	3.1	20.6	11 27	3 36.77	+25 40.9	1.271	2.251	4.0	19.8
12 7	3 27.37	+24 6.0	1.812	2.758	7.1	20.9	12 7	3 26.30	+25 7.5	1.309	2.259	8.8	20.1
12 17	3 19.49	+23 36.4	1.886	2.770	10.8	21.2	12 17	3 18.45	+24 33.3	1.372	2.267	13.3	20.3
12 27	3 14.26	+23 11.5	1.983	2.782	14.0	21.4	12 27	3 14.03	+24 4.9	1.456	2.275	17.2	20.6
271039	2003 <i>DD</i> ₅		11 20.5 171°26	3°7/22.6	18		21098	1992 <i>EB</i> ₂₇		11 20.5 26°78	0°1/20.5	18	
10 18	4 15.10	+31 44.0	2.007	2.813	14.2	21.0	10 18	4 8.82	+21 20.5	1.875	2.719	13.5	19.0
10 28	4 8.28	+31 44.7	1.930	2.816	11.1	20.8	10 28	4 3.61	+21 4.6	1.806	2.722	10.0	18.8
11 7	3 59.03	+31 30.3	1.876	2.819	7.6	20.6	11 7	3 56.25	+20 41.5	1.761	2.726	5.9	18.6
11 17	3 48.25	+30 59.4	1.849	2.822	4.4	20.4	11 17	3 47.55	+20 12.4	1.743	2.729	1.6	18.3
11 27	3 37.16	+30 13.5	1.851	2.823	4.2	20.4	11 27	3 38.58	+19 40.5	1.753	2.734	2.9	18.4
12 7	3 27.02	+29 17.2	1.882	2.825	7.1	20.6	12 7	3 30.45	+19 9.5	1.792	2.738	7.1	18.7
12 17	3 18.88	+28 16.8	1.941	2.825	10.6	20.8	12 17	3 24.07	+18 43.5	1.857	2.743	10.9	18.9
12 27	3 13.42	+27 19.1	2.024	2.825	13.7	21.0	12 27	3 20.07	+18 25.7	1.945	2.748	14.1	19.1
409216	2003 <i>WF</i> ₉₃		11 20.5 50°30	1°4/21.2	18		169711	2002 <i>LD</i> ₄₅		11 20.5 129°31	1°5/21.4	18	
10 18	4 10.80	+23 20.5	2.202	3.031	12.3	20.4	10 18	4 12.91	+25 56.7	2.057	2.881	13.2	21.5
10 28	4 4.86	+23 45.0	2.130	3.036	9.2	20.2	10 28	4 6.39	+25 42.0	1.991	2.893	9.9	21.3
11 7	3 56.93	+24 3.3	2.082	3.041	5.7	20.0	11 7	3 57.79	+25 16.7	1.948	2.906	6.2	21.1
11 17	3 47.71	+24 14.7	2.063	3.047	2.2	19.7	11 17	3 47.94	+24 41.4	1.934	2.917	2.4	20.9
11 27	3 38.17	+24 19.5	2.073	3.052	2.7	19.8	11 27	3 37.91	+23 58.5	1.949	2.929	2.8	21.0
12 7	3 29.33	+24 19.7	2.112	3.058	6.2	20.0	12 7	3 28.81	+23 12.5	1.994	2.940	6.5	21.2
12 17	3 22.06	+24 18.1	2.180	3.063	9.6	20.3	12 17	3 21.50	+22 28.2	2.067	2.950	10.1	21.5
12 27	3 16.99	+24 17.9	2.271	3.069	12.5	20.5	12 27	3 16.58	+21 50.1	2.163	2.960	13.1	21.7
121995	2000 <i>FO</i> ₃₈		11 20.5 195°18	0°0/20.5	18		302594	2002 <i>QL</i> ₂₅		11 20.5 128°56	5°7/17.0	18	
10 18	4 13.80	+20 42.8	1.884	2.719	13.8	20.5	10 18	4 10.25	+ 3 16.1	2.308	3.139	11.7	21.5
10 28	4 7.33	+20 35.3	1.806	2.718	10.2	20.3	10 28	4 4.01	+ 2 15.4	2.258	3.157	9.1	21.4
11 7	3 58.50	+20 21.2	1.752	2.715	6.1	20.1	11 7	3 56.21	+ 1 21.2	2.234	3.173	6.8	21.3
11 17	3 48.14	+20 1.1	1.725	2.712	1.6	19.8	11 17	3 47.50	+ 0 37.9	2.238	3.190	5.7	21.2
11 27	3 37.38	+19 37.5	1.729	2.709	3.0	19.9	11 27	3 38.73	+ 0 9.3	2.271	3.205	6.8	21.3
12 7	3 27.45	+19 13.8	1.761	2.705	7.4	20.1	12 7	3 30.70	+ 0 2.7	2.332	3.220	9.0	21.5
12 17	3 19.37	+18 54.0	1.820	2.700	11.4	20.4	12 17	3 24.10	+ 0 2.2	2.420	3.234	11.3	21.7
12 27	3 13.88	+18 41.7	1.902	2.695	14.8	20.6	12 27	3 19.38	+ 0 22.7	2.529	3.247	13.5	21.9
317064	2001 <i>SW</i> ₁₃₉		11 20.5 93°39	1°3/21.1	18		179247	2001 <i>UY</i> ₁₀₂		11 20.5 298°34	2°4/19.1	17	
10 18	4 15.38	+24 2.2	1.613	2.449	15.6	21.2	10 18	4 7.79	+16 4.3	1.842	2.694	13.3	20.5
10 28	4 8.56	+23 57.4	1.558	2.469	11.6	21.0	10 28	4 2.99	+15 15.9	1.756	2.677	9.9	20.2
11 7	3 59.18	+23 42.2	1.527	2.488	7.1	20.8	11 7	3 56.00	+14 22.3	1.694	2.660	6.0	19.9
11 17	3 48.28	+23 16.8	1.522	2.507	2.4	20.6	11 17	3 47.52	+13 27.1	1.659	2.643	2.6	19.7
11 27	3 37.24	+22 44.3	1.545	2.526	3.2	20.7	11 27	3 38.61	+12 35.1	1.652	2.626	4.4	19.8
12 7	3 27.43	+22 9.4	1.597	2.544	7.7	21.0	12 7	3 30.37	+11 51.5	1.673	2.609	8.4	20.0
12 17	3 19.90	+21 37.4	1.675	2.562	11.8	21.3	12 17	3 23.79	+11 20.2	1.720	2.593	12.4	20.2
12 27	3 15.26	+21 12.9	1.775	2.579	15.2	21.5	12 27	3 19.58	+11 3.9	1.789	2.576	15.8	20.4
16358	Plesetsk		11 20.5 27°77	7°2/18.7	18	R	292389	2006 <i>SB</i> ₂₆₇		11 20.5 225°52	0°4/20.7	18	
10 18	4 11.38	+ 2 42.9	1.390	2.245	16.7	16.2	10 18	4 9.60	+22 59.2	1.938	2.776	13.3	20.9
10 28	4 5.75	+ 2 27.7	1.342	2.255	12.9	16.0	10 28	4 4.16	+22 31.1	1.863	2.775	9.9	20.7
11 7	3 57.59	+ 2 25.0	1.317	2.267	9.3	15.8	11 7	3 56.58	+21 53.7	1.812	2.775	6.0	20.5
11 17	3 47.87	+ 2 39.4	1.315	2.279	7.2	15.7	11 17	3 47.65	+21 8.6	1.788	2.774	1.7	20.2
11 27	3 37.97	+ 3 13.3	1.339	2.292	8.3	15.8	11 27	3 38.44	+20 19.1	1.793	2.773	2.8	20.3
12 7	3 29.22	+ 4 6.4	1.389	2.306	11.5	16.0	12 7	3 30.05	+19 30.0	1.827	2.773	7.0	20.5
12 17	3 22.67	+ 5 15.9	1.462	2.321	15.0	16.3	12 17	3 23.39	+18 46.2	1.887	2.772	10.8	20.8
12 27	3 18.95	+ 6 38.1	1.555	2.336	18.0	16.5	12 27	3 19.10	+18 11.6	1.972	2.771	14.1	21.0
298084	2002 <i>QC</i> ₁₄₀		11 20.5 18°57	0°4/20.3	18		75027	1999 <i>UG</i> ₁₇		11 20.5 251°15	5°2/22.4	18	
10 18	4 9.14	+20 30.0	1.459	2.317	15.8	20.5	10 18	4 16.43	+31 7.9	1.479	2.303	17.4	19.9
10 28	4 4.29	+20 9.4	1.397	2.321	11.7	20.3	10 28	4 10.23	+31 47.7	1.404	2.300	13.7	19.6
11 7	3 56.82	+19 40.7	1.358	2.326	6.9	20.0	11 7	4 0.69	+32 11.8	1.351	2.297	9.6	19.4
11 17	3 47.70	+19 6.0	1.344	2.331	1.8	19.7	11 17	3 48.82	+32 15.9	1.322	2.294	6.0	19.2
11 27	3 38.27	+18 29.6	1.357	2.338	3.5	19.8	11 27	3 36.25	+31 59.1	1.320	2.291	5.8	19.2
12 7	3 29.92	+17 56.4	1.396	2.344	8.5	20.2	12 7	3 24.81	+31 25.4	1.344	2.287	9.2	19.4
12 17	3 23.74	+17 31.1	1.460	2.352	12.9	20.4	12 17	3 16.00	+30 42.4	1.393	2.284	13.4	19.6
12 27	3 20.44	+17 17.2	1.545	2.360	16.6	20.7	12 27	3 10.77	+29 59.0	1.463	2.281	17.2	19.8
244016	2001 <i>SD</i> ₁₂₁		11 20.5 79°02	3°9/22.7	18		421561	2014 <i>OA</i> ₁₉₀		11 20.5 42°30	4°3/22.9	17	
10 18	4 13.96	+31 45.4	1.910	2.721	14.6	20.5	10 18	4 11.15	+32 55.4	2.176	2.979	13.3	20.8
10 28	4 7.34	+31 52.9	1.854	2.743	11.3	20.3	10 28	4 5.34	+33 18.8	2.100	2.982	10.5	20.6
11 7	3 58.39	+31 45.3	1.821	2.765	7.7	20.2	11 7	3 57.32	+33 28.7	2.047	2.984	7.5	20.5
11 17	3 48.08	+31 21.4	1.814	2.786	4.6	20.0	11 17	3 47.86	+33 23.2	2.020	2.986	4.9	20.3
11 27	3 37.65	+30 43.1	1.836	2.808	4.3	20.0	11 27	3 38.04	+33 2.5	2.022	2.989	4.6	20.3
12 7	3 28.34	+29 55.0	1.887	2.829	7.1	20.3	12 7	3 29.02	+32 29.7	2.053	2.992	6.9	20.5
12 17	3 21.09	+29 3.2	1.964	2.851	10.4	20.5	12 17	3 21.74	+31 49.8	2.111	2.995	9.9	20.6
12 27	3 16.51	+28 14.0	2.066	2.872	13.3	20.7	12 27	3 16.90	+31 8.4	2.193	2.997	12.7	20.8
166342	2002 <i>JV</i> ₁₃₂		11 20.5 110°62	2°6/22.1	18		141599	2002 <i>JL</i>					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
409132	2003 <i>UY</i> ₃₇		11 20.5 343°05	0°6/20.1	17		141685	2002 <i>JG</i> ₁₃₀		11 20.5 97°04	3°2/19.3	18	
10 18	4 5.43	+23 12.1	1.706	2.558	14.2	19.6	10 18	4 15.47	+13 29.6	1.487	2.338	16.0	20.4
10 28	4 1.35	+21 55.7	1.626	2.546	10.5	19.4	10 28	4 8.60	+12 56.8	1.439	2.358	11.8	20.2
11 7	3 55.03	+20 25.3	1.569	2.536	6.2	19.1	11 7	3 59.21	+12 23.5	1.414	2.378	7.2	20.0
11 17	3 47.26	+18 44.9	1.539	2.526	1.6	18.8	11 17	3 48.36	+11 53.3	1.415	2.397	3.4	19.8
11 27	3 39.18	+17 1.5	1.538	2.518	3.4	18.9	11 27	3 37.42	+11 30.5	1.444	2.416	5.1	19.9
12 7	3 31.95	+15 23.4	1.565	2.510	8.0	19.1	12 7	3 27.75	+11 18.7	1.500	2.435	9.4	20.2
12 17	3 26.54	+13 58.1	1.618	2.503	12.3	19.4	12 17	3 20.36	+11 19.8	1.582	2.453	13.3	20.5
12 27	3 23.60	+12 50.5	1.693	2.497	15.8	19.6	12 27	3 15.85	+11 34.4	1.684	2.470	16.7	20.8
197408	2003 <i>YR</i> ₄₆		11 20.5 17°64	1°1/21.0	18		296932	2010 <i>CR</i> ₂₃₅		11 20.5 134°30	2°9/22.5	17	
10 18	4 7.98	+23 16.6	1.711	2.558	14.4	19.8	10 18	4 9.35	+30 45.6	2.328	3.138	12.3	20.7
10 28	4 3.18	+23 18.3	1.649	2.565	10.7	19.6	10 28	4 3.78	+30 35.4	2.249	3.140	9.5	20.5
11 7	3 56.08	+23 11.4	1.610	2.573	6.5	19.4	11 7	3 56.30	+30 12.5	2.195	3.141	6.4	20.3
11 17	3 47.54	+22 56.3	1.596	2.582	2.2	19.1	11 17	3 47.61	+29 36.6	2.167	3.143	3.6	20.1
11 27	3 38.72	+22 35.4	1.610	2.591	3.0	19.2	11 27	3 38.69	+28 49.6	2.169	3.144	3.4	20.1
12 7	3 30.82	+22 12.3	1.652	2.602	7.2	19.5	12 7	3 30.52	+27 55.4	2.201	3.146	6.1	20.3
12 17	3 24.83	+21 51.3	1.719	2.613	11.2	19.8	12 17	3 23.92	+26 59.0	2.261	3.147	9.2	20.5
12 27	3 21.39	+21 36.2	1.810	2.625	14.5	20.0	12 27	3 19.48	+26 5.6	2.345	3.148	12.0	20.7
90258	2003 <i>BJ</i> ₈₀		11 20.5 190°16	3°6/18.3	18		14399	1990 <i>WN</i> ₄		11 20.5 10°04	5°1/19.3	18	
10 18	4 8.48	+ 8 45.5	2.580	3.415	10.5	20.0	10 18	4 13.52	+ 6 7.3	1.533	2.382	15.6	17.6
10 28	4 2.78	+ 8 10.7	2.506	3.414	7.9	19.8	10 28	4 7.39	+ 6 16.3	1.469	2.383	11.9	17.3
11 7	3 55.55	+ 7 37.9	2.458	3.412	5.3	19.7	11 7	3 58.68	+ 6 34.4	1.428	2.385	8.0	17.1
11 17	3 47.38	+ 7 10.2	2.438	3.410	3.6	19.5	11 17	3 48.28	+ 7 4.3	1.412	2.387	5.2	17.0
11 27	3 38.99	+ 6 50.2	2.449	3.408	4.7	19.6	11 27	3 37.48	+ 7 47.4	1.425	2.389	6.4	17.1
12 7	3 31.15	+ 6 40.4	2.490	3.404	7.2	19.8	12 7	3 27.66	+ 8 43.4	1.464	2.392	10.1	17.3
12 17	3 24.53	+ 6 41.7	2.558	3.401	9.9	19.9	12 17	3 19.91	+ 9 50.7	1.528	2.396	13.9	17.5
12 27	3 19.63	+ 6 54.5	2.649	3.397	12.2	20.1	12 27	3 15.00	+11 7.2	1.614	2.400	17.3	17.8
188005	2001 <i>SG</i> ₂₈₄		11 20.5 119°02	0°3/20.4	18		206307	2003 <i>HZ</i> ₉		11 20.5 169°59	0°2/20.4	18	
10 18	4 15.31	+19 54.6	1.833	2.669	14.1	21.1	10 18	4 16.05	+20 21.3	1.543	2.387	15.9	21.1
10 28	4 8.22	+19 41.6	1.775	2.687	10.4	21.0	10 28	4 9.37	+20 9.4	1.474	2.390	11.8	20.9
11 7	3 58.90	+19 22.4	1.742	2.705	6.1	20.7	11 7	3 59.89	+19 49.8	1.428	2.393	7.0	20.6
11 17	3 48.25	+18 58.5	1.736	2.723	1.6	20.5	11 17	3 48.60	+19 23.8	1.408	2.395	1.8	20.3
11 27	3 37.46	+18 32.6	1.760	2.740	3.0	20.6	11 27	3 36.91	+18 54.5	1.416	2.396	3.5	20.4
12 7	3 27.73	+18 8.4	1.813	2.756	7.3	20.9	12 7	3 26.32	+18 26.4	1.452	2.398	8.5	20.7
12 17	3 19.97	+17 49.6	1.893	2.771	11.1	21.2	12 17	3 18.02	+18 4.4	1.514	2.398	13.0	21.0
12 27	3 14.80	+17 39.1	1.996	2.785	14.3	21.4	12 27	3 12.78	+17 52.5	1.598	2.398	16.8	21.2
384385	2009 <i>VK</i> ₆₄		11 20.5 330°44	2°2/19.8	18		492826	2014 <i>QH</i> ₂₉₀		11 20.5 62°52	0°3/20.4	18	
10 18	4 11.99	+14 53.6	1.388	2.248	16.3	20.1	10 18	4 11.18	+18 13.1	2.049	2.888	12.7	20.8
10 28	4 6.66	+14 50.0	1.318	2.242	12.2	19.8	10 28	4 5.14	+18 26.5	1.986	2.899	9.3	20.6
11 7	3 58.42	+14 45.4	1.269	2.236	7.3	19.5	11 7	3 57.11	+18 36.8	1.946	2.911	5.5	20.4
11 17	3 48.21	+14 41.9	1.245	2.231	2.7	19.2	11 17	3 47.84	+18 44.4	1.935	2.922	1.4	20.2
11 27	3 37.43	+14 42.3	1.248	2.226	4.6	19.3	11 27	3 38.32	+18 50.5	1.954	2.934	2.7	20.3
12 7	3 27.65	+14 49.6	1.277	2.221	9.6	19.6	12 7	3 29.59	+18 56.9	2.001	2.945	6.7	20.6
12 17	3 20.14	+15 6.1	1.330	2.217	14.3	19.9	12 17	3 22.51	+19 5.8	2.076	2.957	10.2	20.8
12 27	3 15.76	+15 33.2	1.404	2.213	18.2	20.1	12 27	3 17.67	+19 19.1	2.175	2.968	13.1	21.0
409727	2006 <i>BM</i> ₂₈₃		11 20.5 52°57	5°4/23.9	17		411508	2011 <i>BT</i> ₁₃		11 20.5 347°94	5°1/23.2	17	
10 18	4 11.55	+36 39.8	2.083	2.875	14.2	21.3	10 18	4 10.36	+33 50.3	1.887	2.697	14.8	21.4
10 28	4 5.73	+36 54.8	2.012	2.882	11.5	21.1	10 28	4 5.15	+34 14.8	1.809	2.693	11.8	21.2
11 7	3 57.57	+36 52.7	1.963	2.889	8.5	21.0	11 7	3 57.41	+34 23.7	1.752	2.689	8.5	21.0
11 17	3 47.94	+36 31.1	1.940	2.896	6.1	20.8	11 17	3 47.96	+34 14.3	1.721	2.686	5.8	20.8
11 27	3 38.03	+35 51.0	1.944	2.904	5.5	20.8	11 27	3 38.05	+33 46.7	1.717	2.683	5.4	20.8
12 7	3 29.07	+34 56.4	1.977	2.911	7.4	20.9	12 7	3 29.01	+33 4.7	1.740	2.681	7.8	20.9
12 17	3 22.05	+33 53.5	2.036	2.919	10.2	21.1	12 17	3 21.96	+32 14.2	1.790	2.679	11.1	21.1
12 27	3 17.62	+32 49.4	2.119	2.927	12.9	21.3	12 27	3 17.66	+31 22.4	1.862	2.677	14.2	21.3
340982	2007 <i>EB</i> ₁₇₆		11 20.5 259°98	2°8/19.1	18		488246	2016 <i>BN</i> ₃₂		11 20.5 345°33	5°3/23.5	17	
10 18	4 10.67	+15 30.6	1.614	2.468	14.8	21.6	10 18	4 11.56	+36 4.2	2.302	3.090	13.1	20.9
10 28	4 5.28	+14 41.3	1.540	2.462	10.9	21.4	10 28	4 5.71	+36 40.4	2.222	3.088	10.6	20.8
11 7	3 57.42	+13 47.5	1.489	2.455	6.6	21.1	11 7	3 57.61	+37 2.3	2.164	3.087	8.0	20.6
11 17	3 47.92	+12 53.0	1.464	2.448	3.0	20.9	11 17	3 48.01	+37 7.2	2.132	3.086	5.9	20.5
11 27	3 38.03	+12 3.6	1.467	2.441	4.9	21.0	11 27	3 37.97	+36 54.5	2.129	3.085	5.5	20.4
12 7	3 29.02	+11 24.4	1.498	2.434	9.2	21.2	12 7	3 28.66	+36 26.6	2.154	3.084	7.2	20.5
12 17	3 21.98	+10 59.6	1.553	2.426	13.4	21.5	12 17	3 21.07	+35 48.2	2.206	3.083	9.8	20.7
12 27	3 17.64	+10 51.0	1.630	2.419	17.0	21.7	12 27	3 15.93	+35 5.3	2.282	3.082	12.4	20.9
227721	2006 <i>DU</i> ₂₀₈		11 20.5 278°78	4°6/17.2	18		298023	2002 <i>PH</i> ₈₆		11 20.5 63°78	6°6/23.4	18	
10 18	4 5.88	+ 8 26.2	2.291	3.137	11.3	19.9	10 18	4 18.24	+35 9.9	1.663	2.465	16.8	20.1
10 28	4 1.10	+ 7 15.1	2.213	3.126	8.6	19.7	10 28	4 11.13	+36 11.0	1.610	2.485	13.5	19.9
11 7	3 54.67	+ 6 4.8	2.161	3.114	5.9	19.5	11 7	4 0.98	+36 54.0	1.578	2.506	10.0	19.7
11 17	3 47.18	+ 5 0.1	2.136	3.103	4.6	19.4	11 17	3 48.89	+37 14.0	1.571	2.527	7.2	19.6
11 27	3 39.42	+ 4 5.8	2.141	3.092	5.9	19.5	11 27	3 36.46	+37 10.0	1.591	2.548	6.8	19.6
12 7	3 32.23	+ 3 25.9	2.174	3.081	8.6	19.6	12 7	3 25.34	+36 45.8	1.638	2.569	9.0	19.8
12 17	3 26.32	+ 3 2.4	2.233	3.069	11.4	19.8	12 17	3 16.80	+36 8.5	1.710	2.590	12.0	20.1
12 27	3 22.25	+ 2 55.8	2.315	3.058	13.9	19.9	12 27	3 11.59	+35 26.7	1.805	2.611	14.9	20.3
364614	2007 <i>RA</i> ₃₂₃		11 20.5 295°51	5°6/17.1	18		98960						

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
438835	2009 BA ₈₄		11 20.5 23°16'	2.5°/19.5	18		516452	2005 ET ₂₁₁		11 20.5 234°71'	2.1°/19.4	18	
10 18	4 9.96	+15 6.1	1.502	2.362	15.4	21.1	10 18	4 10.47	+15 16.5	2.162	3.002	12.1	22.6
10 28	4 4.80	+14 39.6	1.441	2.365	11.3	20.9	10 28	4 4.68	+14 43.8	2.075	2.990	8.9	22.4
11 7	3 57.13	+14 10.8	1.403	2.370	6.8	20.6	11 7	3 56.92	+14 8.2	2.014	2.977	5.4	22.1
11 17	3 47.87	+13 43.0	1.390	2.374	2.8	20.4	11 17	3 47.85	+13 32.0	1.980	2.964	2.3	21.9
11 27	3 38.31	+13 20.2	1.404	2.379	4.6	20.5	11 27	3 38.42	+12 58.7	1.977	2.951	3.8	22.0
12 7	3 29.76	+13 6.3	1.444	2.385	9.0	20.8	12 7	3 29.59	+12 31.8	2.003	2.937	7.4	22.2
12 17	3 23.29	+13 4.0	1.509	2.391	13.2	21.1	12 17	3 22.24	+12 14.3	2.056	2.922	10.9	22.4
12 27	3 19.59	+13 14.8	1.596	2.397	16.7	21.3	12 27	3 17.03	+12 8.0	2.133	2.907	14.0	22.6
448026	2008 EK ₃₉		11 20.5 83°76'	4.3°/18.3	18		305104	2007 VS ₅₇		11 20.5 329°95'	3.1°/19.1	18	
10 18	4 9.36	+ 8 35.7	2.012	2.857	12.6	21.0	10 18	4 7.69	+14 42.5	1.491	2.355	15.2	20.6
10 28	4 3.65	+ 7 57.4	1.958	2.871	9.5	20.9	10 28	4 3.33	+14 0.9	1.416	2.342	11.3	20.3
11 7	3 56.14	+ 7 22.5	1.930	2.886	6.3	20.7	11 7	3 56.41	+13 15.9	1.363	2.330	7.0	20.0
11 17	3 47.57	+ 6 54.6	1.928	2.901	4.3	20.6	11 17	3 47.75	+12 31.5	1.336	2.319	3.3	19.8
11 27	3 38.88	+ 6 37.2	1.956	2.915	5.5	20.7	11 27	3 38.60	+11 53.3	1.335	2.309	5.2	19.9
12 7	3 31.01	+ 6 32.6	2.012	2.930	8.4	20.9	12 7	3 30.30	+11 26.2	1.360	2.299	9.7	20.1
12 17	3 24.71	+ 6 41.5	2.093	2.944	11.4	21.2	12 17	3 24.00	+11 13.8	1.409	2.289	14.0	20.3
12 27	3 20.52	+ 7 3.5	2.197	2.958	14.0	21.4	12 27	3 20.47	+11 17.9	1.478	2.281	17.8	20.6
215499	2002 TP ₂₃₀		11 20.5 60°91'	8.8°/17.3	18		27585	2000 VN ₁		11 20.5 328°84'	1.2°/20.0	18	
10 18	4 11.14	- 2 19.9	1.669	2.504	15.3	19.6	10 18	4 6.97	+19 37.6	1.306	2.174	16.7	17.8
10 28	4 5.21	- 3 5.8	1.625	2.517	12.4	19.5	10 28	4 3.28	+19 2.9	1.225	2.154	12.4	17.4
11 7	3 57.15	- 3 37.0	1.603	2.531	9.9	19.4	11 7	3 56.63	+18 18.3	1.166	2.135	7.5	17.1
11 17	3 47.85	- 3 47.9	1.606	2.545	8.8	19.4	11 17	3 47.86	+17 26.9	1.130	2.117	2.1	16.7
11 27	3 38.44	- 3 35.1	1.635	2.559	9.7	19.4	11 27	3 38.40	+16 34.0	1.120	2.100	4.3	16.8
12 7	3 30.03	- 2 58.3	1.690	2.573	12.0	19.6	12 7	3 29.84	+15 46.7	1.135	2.084	9.9	17.1
12 17	3 23.50	- 2 0.3	1.767	2.587	14.6	19.8	12 17	3 23.55	+15 11.4	1.173	2.069	15.0	17.4
12 27	3 19.42	- 0 45.1	1.865	2.601	17.0	20.0	12 27	3 20.47	+14 52.3	1.230	2.055	19.4	17.6
449482	2014 EQ ₄₃		11 20.5 152°79'	4.4°/23.5	18		432304	2009 SJ ₃₅₀		11 20.5 112°08'	0.5°/20.7	18	
10 18	4 15.11	+35 31.0	2.507	3.286	12.4	22.0	10 18	4 15.76	+22 2.3	1.665	2.502	15.2	21.8
10 28	4 7.96	+35 44.0	2.431	3.296	9.9	21.9	10 28	4 8.84	+21 54.2	1.607	2.519	11.2	21.6
11 7	3 58.76	+35 42.5	2.380	3.305	7.2	21.7	11 7	3 59.43	+21 37.7	1.572	2.535	6.7	21.4
11 17	3 48.29	+35 24.7	2.356	3.314	5.0	21.6	11 17	3 48.50	+21 13.5	1.565	2.551	1.9	21.1
11 27	3 37.59	+34 51.3	2.361	3.322	4.6	21.6	11 27	3 37.39	+20 44.5	1.586	2.566	3.1	21.3
12 7	3 27.72	+34 5.5	2.397	3.330	6.5	21.7	12 7	3 27.44	+20 15.1	1.635	2.581	7.7	21.6
12 17	3 19.55	+33 12.3	2.461	3.336	9.0	21.9	12 17	3 19.67	+19 49.8	1.711	2.595	11.8	21.9
12 27	3 13.71	+32 17.7	2.551	3.342	11.5	22.1	12 27	3 14.72	+19 32.7	1.810	2.609	15.2	22.1
349328	2007 VJ ₁		11 20.5 333°50'	9.5°/15.2	18		59321	1999 CF ₉₃		11 20.5 255°30'	1.5°/19.9	18	
10 18	4 4.23	+ 3 32.7	1.300	2.171	16.5	19.6	10 18	4 12.38	+17 1.5	1.747	2.593	14.2	19.9
10 28	4 1.02	+ 1 45.8	1.230	2.150	13.3	19.4	10 28	4 6.57	+16 43.2	1.662	2.580	10.6	19.6
11 7	3 55.14	+ 0 4.0	1.183	2.130	10.5	19.2	11 7	3 58.27	+16 20.7	1.601	2.566	6.3	19.4
11 17	3 47.42	- 1 21.8	1.158	2.112	9.6	19.1	11 17	3 48.25	+15 55.9	1.566	2.553	2.1	19.1
11 27	3 39.14	- 2 21.4	1.157	2.094	11.4	19.1	11 27	3 37.70	+15 31.9	1.561	2.539	3.8	19.1
12 7	3 31.71	- 2 48.3	1.179	2.078	14.8	19.3	12 7	3 27.89	+15 12.8	1.583	2.524	8.4	19.4
12 17	3 26.32	- 2 41.1	1.220	2.063	18.4	19.5	12 17	3 19.95	+15 1.8	1.631	2.509	12.6	19.6
12 27	3 23.82	- 2 2.8	1.278	2.049	21.7	19.6	12 27	3 14.67	+15 1.9	1.702	2.495	16.2	19.8
125843	2001 XD ₁₈₃		11 20.5 353°98'	2.5°/19.7	18		415645	2014 QV ₃₈₉		11 20.5 111°40'	0.9°/21.1	18	
10 18	4 8.39	+15 30.4	1.173	2.048	17.7	19.2	10 18	4 9.19	+24 0.6	2.277	3.105	11.9	20.8
10 28	4 4.36	+15 15.1	1.110	2.042	13.1	18.9	10 28	4 3.60	+23 48.9	2.205	3.111	8.9	20.6
11 7	3 57.22	+14 57.4	1.068	2.038	7.9	18.6	11 7	3 56.19	+23 29.3	2.157	3.117	5.4	20.4
11 17	3 47.97	+14 40.3	1.048	2.034	3.0	18.3	11 17	3 47.65	+23 2.3	2.138	3.123	1.8	20.1
11 27	3 38.18	+14 28.1	1.053	2.032	5.0	18.5	11 27	3 38.88	+22 30.1	2.148	3.129	2.4	20.2
12 7	3 29.52	+14 25.2	1.083	2.031	10.4	18.8	12 7	3 30.84	+21 56.2	2.188	3.134	6.0	20.5
12 17	3 23.36	+14 34.4	1.135	2.031	15.4	19.1	12 17	3 24.30	+21 24.2	2.256	3.140	9.3	20.7
12 27	3 20.54	+14 57.1	1.205	2.032	19.6	19.3	12 27	3 19.82	+20 57.7	2.348	3.145	12.2	20.9
408730	2014 OJ ₄₉		11 20.5 98°04'	0.0°/20.5	18		484452	2008 BY ₂₂		11 20.5 302°43'	7.8°/24.3	17	
10 18	4 10.33	+20 30.9	2.082	2.919	12.6	21.6	10 18	4 13.95	+39 52.2	1.843	2.626	16.1	20.9
10 28	4 4.52	+20 23.0	2.015	2.928	9.3	21.4	10 28	4 8.31	+40 38.6	1.754	2.611	13.5	20.7
11 7	3 56.76	+20 9.3	1.973	2.937	5.5	21.2	11 7	3 59.59	+41 5.7	1.685	2.596	10.7	20.5
11 17	3 47.78	+19 51.0	1.958	2.945	1.5	20.9	11 17	3 48.65	+41 8.2	1.640	2.581	8.4	20.3
11 27	3 38.58	+19 30.3	1.973	2.953	2.7	21.0	11 27	3 36.94	+40 43.8	1.621	2.567	7.9	20.3
12 7	3 30.17	+19 10.1	2.017	2.962	6.6	21.3	12 7	3 26.11	+39 55.4	1.629	2.553	9.6	20.3
12 17	3 23.38	+18 53.8	2.088	2.970	10.1	21.5	12 17	3 17.58	+38 50.0	1.661	2.539	12.4	20.5
12 27	3 18.80	+18 44.0	2.184	2.978	13.1	21.7	12 27	3 12.34	+37 37.2	1.716	2.525	15.4	20.6
156557	2002 EQ ₅₀		11 20.5 199°63'	0.1°/20.6	18		98793	2000 YT ₁₀₆		11 20.5 231°37'	1.8°/19.8	18	
10 18	4 9.08	+21 17.6	2.344	3.176	11.5	20.8	10 18	4 12.35	+15 10.7	1.924	2.767	13.3	19.7
10 28	4 3.51	+21 3.3	2.264	3.175	8.5	20.6	10 28	4 6.28	+15 1.7	1.844	2.759	9.8	19.5
11 7	3 56.14	+20 42.9	2.210	3.173	5.1	20.4	11 7	3 57.98	+14 51.1	1.787	2.751	5.9	19.2
11 17	3 47.63	+20 17.5	2.184	3.171	1.4	20.1	11 17	3 48.17	+14 40.5	1.758	2.743	2.2	19.0
11 27	3 38.85	+19 49.2	2.188	3.168	2.4	20.2	11 27	3 37.93	+14 32.4	1.759	2.735	3.7	19.1
12 7	3 30.70	+19 21.1	2.222	3.166	6.1	20.4	12 7	3 28.41	+14 29.4	1.788	2.726	7.8	19.3
12 17	3 23.97	+18 56.4	2.284	3.163	9.4	20.6	12 17	3 20.58	+14 33.8	1.844	2.717	11.6	19.5
12 27	3 19.23	+18 38.1	2.370	3.160	12.3	20.8	12 27	3 15.17	+14 47.4	1.923	2.708	14.9	19.7
271228	2003 TU ₅₄		11 20.5 161°43'	0.3°/20.3	17		45400	2000 AW ₁₄₀		11 20.5 216°53'	1.2°/19.7	18	

EPHEMERIDES

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11 20.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
356695	2011 <i>UM</i> ₁₃₆		11 20.5 93°69	1.7°/21.4	18		439023	2011 <i>DY</i> ₄₂		11 20.6 194°92	0.4°/20.8	18	
10 18	4 11.71	+25 5.6	1.874	2.706	14.0	21.5	10 18	4 13.91	+22 32.4	1.919	2.750	13.7	22.5
10 28	4 5.87	+25 6.1	1.803	2.710	10.5	21.3	10 28	4 7.47	+22 14.8	1.839	2.749	10.2	22.3
11 7	3 57.72	+24 56.7	1.756	2.715	6.6	21.1	11 7	3 58.70	+21 48.4	1.784	2.746	6.2	22.0
11 17	3 48.10	+24 37.3	1.736	2.720	2.6	20.8	11 17	3 48.42	+21 14.1	1.756	2.743	1.8	21.7
11 27	3 38.17	+24 9.9	1.744	2.724	3.0	20.9	11 27	3 37.78	+20 34.7	1.758	2.739	2.9	21.8
12 7	3 29.13	+23 38.3	1.781	2.729	7.0	21.2	12 7	3 27.97	+19 54.6	1.790	2.734	7.2	22.1
12 17	3 21.96	+23 7.3	1.845	2.733	10.8	21.4	12 17	3 20.01	+19 18.5	1.848	2.729	11.2	22.3
12 27	3 17.34	+22 41.4	1.932	2.738	14.1	21.6	12 27	3 14.60	+18 50.6	1.930	2.723	14.6	22.5
397645	2007 <i>XH</i> ₄₃		11 20.5 105°02	2.3°/19.7	18		44483	1998 <i>WL</i> ₁₆		11 20.6 330°49	1.3°/20.1	17	
10 18	4 12.84	+13 8.2	1.890	2.733	13.4	20.9	10 18	4 9.89	+15 35.6	1.967	2.812	12.9	18.5
10 28	4 6.51	+13 10.4	1.825	2.740	9.9	20.7	10 28	4 4.49	+15 46.7	1.887	2.804	9.5	18.2
11 7	3 58.02	+13 13.5	1.784	2.747	6.0	20.5	11 7	3 56.96	+15 57.2	1.831	2.796	5.7	18.0
11 17	3 48.18	+13 18.8	1.770	2.754	2.6	20.3	11 17	3 47.98	+16 7.9	1.802	2.788	1.8	17.7
11 27	3 38.05	+13 28.2	1.786	2.761	3.9	20.4	11 27	3 38.56	+16 20.0	1.803	2.781	3.3	17.8
12 7	3 28.76	+13 43.3	1.830	2.767	7.8	20.7	12 7	3 29.79	+16 35.2	1.832	2.774	7.3	18.1
12 17	3 21.22	+14 5.3	1.902	2.774	11.4	20.9	12 17	3 22.61	+16 55.0	1.888	2.768	11.0	18.3
12 27	3 16.09	+14 35.0	1.996	2.780	14.5	21.1	12 27	3 17.74	+17 20.9	1.967	2.762	14.3	18.5
289581	2005 <i>EN</i> ₃₂₅		11 20.5 324°26	3.2°/21.5	16		73756	1994 <i>CS</i> ₉		11 20.6 204°95	0.7°/20.1	18	
10 18	4 9.88	+25 44.0	1.334	2.188	17.3	20.6	10 18	4 7.53	+18 7.4	2.846	3.677	9.7	19.9
10 28	4 5.84	+26 16.9	1.244	2.161	13.4	20.3	10 28	4 2.12	+17 51.1	2.762	3.673	7.2	19.8
11 7	3 58.44	+26 39.7	1.173	2.134	8.8	20.0	11 7	3 55.27	+17 31.4	2.705	3.668	4.2	19.6
11 17	3 48.45	+26 49.4	1.126	2.108	4.2	19.7	11 17	3 47.50	+17 9.6	2.677	3.663	1.2	19.3
11 27	3 37.35	+26 45.2	1.104	2.084	4.6	19.6	11 27	3 39.49	+16 47.8	2.680	3.658	2.4	19.4
12 7	3 26.99	+26 30.2	1.107	2.060	9.6	19.8	12 7	3 31.97	+16 28.1	2.714	3.653	5.4	19.6
12 17	3 19.04	+26 10.1	1.134	2.037	14.8	20.0	12 17	3 25.57	+16 12.7	2.776	3.647	8.3	19.8
12 27	3 14.70	+25 52.2	1.180	2.015	19.3	20.3	12 27	3 20.78	+16 3.7	2.864	3.641	10.7	20.0
66028	1998 <i>QU</i> ₅₁		11 20.5 44°86	0.6°/20.9	18		76764	2000 <i>KE</i> ₂₄		11 20.6 327°82	1.0°/20.0	17	
10 18	4 8.87	+23 23.7	1.876	2.717	13.6	19.0	10 18	4 7.47	+17 29.5	2.162	3.006	11.9	19.2
10 28	4 3.61	+23 1.3	1.817	2.730	10.1	18.8	10 28	4 2.50	+17 16.3	2.083	3.000	8.8	19.0
11 7	3 56.28	+22 29.7	1.781	2.744	6.1	18.6	11 7	3 55.67	+16 59.8	2.028	2.994	5.2	18.7
11 17	3 47.71	+21 50.7	1.772	2.759	1.8	18.4	11 17	3 47.62	+16 41.4	2.002	2.988	1.6	18.5
11 27	3 38.99	+21 7.6	1.792	2.773	2.7	18.5	11 27	3 39.25	+16 23.6	2.004	2.982	3.0	18.6
12 7	3 31.19	+20 24.7	1.840	2.788	6.8	18.8	12 7	3 31.50	+16 9.2	2.035	2.977	6.7	18.8
12 17	3 25.17	+19 46.7	1.915	2.803	10.5	19.0	12 17	3 25.18	+16 0.7	2.093	2.972	10.2	19.0
12 27	3 21.49	+19 17.2	2.013	2.818	13.6	19.3	12 27	3 20.92	+16 0.2	2.175	2.967	13.2	19.2
387230	2012 <i>UL</i> ₃₉		11 20.5 103°05	0.6°/20.9	18		367666	2009 <i>YT</i> ₂₂		11 20.6 358°66	3.7°/22.8	17	
10 18	4 13.33	+23 38.3	1.728	2.565	14.8	21.1	10 18	4 8.64	+31 48.5	2.002	2.818	13.8	20.3
10 28	4 7.01	+23 11.4	1.669	2.580	10.9	20.9	10 28	4 3.67	+31 48.9	1.925	2.817	10.8	20.1
11 7	3 58.34	+22 34.0	1.632	2.594	6.6	20.6	11 7	3 56.48	+31 34.7	1.871	2.816	7.5	19.9
11 17	3 48.27	+21 47.8	1.622	2.608	2.0	20.4	11 17	3 47.84	+31 5.0	1.842	2.815	4.5	19.8
11 27	3 38.04	+20 56.7	1.641	2.622	3.0	20.5	11 27	3 38.88	+30 21.2	1.842	2.815	4.1	19.7
12 7	3 28.91	+20 6.0	1.689	2.636	7.4	20.8	12 7	3 30.75	+29 27.8	1.870	2.815	6.9	19.9
12 17	3 21.84	+19 21.2	1.763	2.649	11.4	21.0	12 17	3 24.40	+28 30.6	1.924	2.816	10.3	20.1
12 27	3 17.42	+18 46.4	1.861	2.662	14.7	21.3	12 27	3 20.51	+27 35.6	2.003	2.817	13.3	20.3
53168	1999 <i>CV</i> ₁₀		11 20.5 20°87	22°1/12.2	18		421456	2014 <i>NE</i> ₁₆		11 20.6 25°26	0.8°/20.1	17	
10 18	4 9.71	-34 34.0	1.451	2.153	23.1	16.4	10 18	4 7.76	+20 27.6	1.841	2.689	13.5	20.8
10 28	4 4.67	-36 19.9	1.448	2.163	22.5	16.4	10 28	4 2.87	+19 42.4	1.775	2.693	9.9	20.5
11 7	3 57.00	-37 20.0	1.458	2.175	22.2	16.4	11 7	3 55.91	+18 49.4	1.732	2.698	5.9	20.3
11 17	3 47.89	-37 27.4	1.481	2.187	22.2	16.4	11 17	3 47.67	+17 51.6	1.717	2.704	1.6	20.0
11 27	3 38.82	-36 40.2	1.516	2.201	22.4	16.5	11 27	3 39.23	+16 53.6	1.730	2.709	3.2	20.2
12 7	3 31.16	-35 2.4	1.564	2.216	22.9	16.6	12 7	3 31.65	+16 0.5	1.771	2.715	7.4	20.4
12 17	3 25.87	-32 42.3	1.623	2.232	23.4	16.7	12 17	3 25.79	+15 16.8	1.839	2.722	11.2	20.7
12 27	3 23.47	-29 50.1	1.694	2.249	24.0	16.8	12 27	3 22.26	+14 45.7	1.930	2.728	14.4	20.9
506130	2016 <i>CN</i> ₁₉₃		11 20.5 137°54	14°9/25.1	17		60418	2000 <i>CU</i> ₂₈		11 20.6 243°92	7°0/15.5	18	
10 18	4 31.84	+46 38.6	1.272	2.033	23.1	21.1	10 18	4 6.49	- 3 7.5	2.625	3.443	10.8	19.7
10 28	4 23.94	+49 4.2	1.213	2.039	20.3	20.9	10 28	4 1.41	- 4 7.2	2.553	3.432	9.0	19.5
11 7	4 10.18	+51 2.1	1.172	2.044	17.5	20.7	11 7	3 54.88	- 4 58.0	2.506	3.420	7.5	19.4
11 17	3 51.74	+52 16.1	1.151	2.049	15.5	20.6	11 17	3 47.40	- 5 35.5	2.486	3.408	7.0	19.4
11 27	3 31.52	+52 35.6	1.152	2.054	14.9	20.6	11 27	3 39.69	- 5 55.8	2.494	3.396	7.9	19.4
12 7	3 13.22	+52 2.9	1.174	2.058	16.1	20.7	12 7	3 32.46	- 5 57.2	2.529	3.384	9.6	19.5
12 17	2 59.74	+50 51.7	1.217	2.062	18.3	20.8	12 17	3 26.34	- 5 39.7	2.588	3.371	11.6	19.6
12 27	2 52.48	+49 21.2	1.278	2.066	20.9	21.0	12 27	3 21.85	- 5 4.9	2.669	3.358	13.5	19.7
77944	2002 <i>GA</i> ₉₆		11 20.6 122°95	3°0/21.9	18		226551	2003 <i>UB</i> ₃₅₁		11 20.6 330°88	4°9/17.5	18	
10 18	4 17.30	+28 23.6	1.599	2.425	16.3	20.1	10 18	4 6.21	+ 7 36.4	2.101	2.949	12.1	20.0
10 28	4 10.29	+28 27.2	1.537	2.438	12.4	19.9	10 28	4 1.50	+ 6 37.0	2.032	2.945	9.2	19.8
11 7	4 0.45	+28 16.2	1.497	2.451	8.1	19.7	11 7	3 55.03	+ 5 40.3	1.988	2.942	6.4	19.6
11 17	3 48.85	+27 49.5	1.483	2.463	3.9	19.5	11 17	3 47.46	+ 4 50.9	1.971	2.938	4.9	19.5
11 27	3 37.00	+27 9.1	1.497	2.475	4.0	19.5	11 27	3 39.63	+ 4 13.4	1.982	2.934	6.2	19.6
12 7	3 26.40	+26 20.6	1.539	2.486	8.0	19.8	12 7	3 32.46	+ 3 51.0	2.021	2.931	8.9	19.8
12 17	3 18.23	+25 31.0	1.607	2.496	12.1	20.0	12 17	3 26.67	+ 3 45.1	2.085	2.928	11.8	19.9
12 27	3 13.18	+24 47.0	1.698	2.506	15.6	20.3	12 27	3 22.86	+ 3 55.7	2.171	2.925	14.4	20.1
413005	1999 <i>VR</i> ₁₂₄		11 20.6 311°62	0°1/20.5	17		242029 </						

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
97363	2000 <i>AS</i> ₃₆		11 20.6 256°73		0°0/20.6 18 R		448058	2008 <i>FC</i> ₁₁₇		11 20.6 303°85		4°2/17.8 18	
10 18	4 8.64	+20 59.3	2.536	3.366	10.8	20.0	10 18	4 7.21	+12 17.1	1.870	2.724	13.1	21.0
10 28	4 3.22	+20 46.7	2.441	3.351	8.0	19.8	10 28	4 2.50	+10 55.3	1.793	2.713	9.8	20.8
362646	2011 <i>SY</i> ₂₁₈		11 20.6 354°87		5°1/19.0 18		411595	2011 <i>FA</i> ₁₅		11 20.6 326°27		6°9/22.3 16	
10 18	4 8.90	+ 8 36.2	1.327	2.195	16.5	19.6	10 18	4 12.70	+33 13.3	1.664	2.480	16.2	20.4
164971	2000 <i>AV</i> ₆₁		11 20.6 262°44		1°8/21.5 18		9844	Otani		11 20.6 1°29		0°5/20.5 18	
10 18	4 12.00	+26 7.3	2.098	2.921	13.0	20.1	10 18	4 12.42	+15 39.7	1.249	2.114	17.5	17.0
480980	2003 <i>WR</i> ₁₅₄		11 20.6 358°61		6°2/19.0 17		86521	2000 <i>DP</i> ₆₉		11 20.6 179°76		1°1/19.9 18	
10 18	4 4.63	+ 8 10.3	1.004	1.893	18.8	19.8	10 18	4 13.38	+18 20.2	1.959	2.796	13.3	20.8
518882	2010 <i>EA</i> ₁₄₅		11 20.6 358°38		0°9/20.1 17		224190	2005 <i>RC</i> ₇		11 20.6 67°37		1°1/20.1 18	
10 18	4 7.86	+18 7.0	2.249	3.090	11.6	21.3	10 18	4 15.11	+19 49.9	1.353	2.207	17.1	20.3
270798	2002 <i>RN</i> ₂₃₄		11 20.6 17°57		5°3/17.2 18		244396	2002 <i>PY</i> ₁₁₁		11 20.6 7°99		12°4/15.9 18	
10 18	4 6.29	+ 4 52.6	2.319	3.160	11.3	20.3	10 18	4 8.04	- 6 56.5	1.368	2.210	17.7	18.8
520766	2014 <i>RV</i> ₆₉		11 20.6 8°62		7°9/17.9 18		300459	2007 <i>TB</i> ₈₃		11 20.6 196°47		1°4/19.8 18	
10 18	4 9.85	- 2 37.8	1.886	2.716	14.0	20.6	10 18	4 11.11	+17 25.1	2.116	2.954	12.4	21.4
275398	2011 <i>BW</i> ₃₅		11 20.6 211°06		4°5/17.8 17		499355	2009 <i>XY</i> ₁₅		11 20.6 356°54		10°4/16.9 18	
10 18	4 7.12	+ 6 25.4	2.428	3.267	11.0	21.7	10 18	4 8.77	- 8 0.7	1.775	2.595	15.1	20.7
23564	Ungaretti		11 20.6 39°81		1°2/19.9 18		378103	2006 <i>UG</i> ₂₀₀		11 20.6 37°18		4°8/22.2 18	
10 18	4 9.07	+17 13.5	1.981	2.827	12.8	18.6	10 18	4 15.39	+28 32.0	1.090	1.943	20.4	20.2

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
217516	2006 <i>UR</i> ₁₄₀		11 20.7 92°66	1.6°/21.4	18		447642	2006 <i>VK</i> ₅₄		11 20.7 10°33	0.3°/20.6	17	
10 18	4 18.84	+25 20.0	1.554	2.385	16.4	20.7	10 18	4 12.09	+18 59.8	1.868	2.709	13.6	21.3
10 28	4 11.38	+25 10.2	1.505	2.412	12.3	20.5	10 28	4 6.39	+19 6.7	1.795	2.709	10.1	21.1
11 7	4 1.27	+24 48.1	1.480	2.438	7.6	20.3	11 7	3 58.41	+19 9.5	1.746	2.710	6.0	20.8
11 17	3 49.62	+24 14.2	1.480	2.464	2.8	20.1	11 17	3 48.95	+19 8.8	1.723	2.710	1.6	20.6
11 27	3 37.95	+23 31.8	1.509	2.490	3.2	20.2	11 27	3 39.09	+19 6.0	1.730	2.711	2.9	20.7
12 7	3 27.67	+22 46.7	1.567	2.515	7.8	20.5	12 7	3 30.00	+19 3.7	1.766	2.712	7.2	20.9
12 17	3 19.82	+22 4.9	1.651	2.539	11.9	20.8	12 17	3 22.67	+19 4.6	1.828	2.713	11.1	21.2
12 27	3 15.02	+21 31.5	1.757	2.562	15.3	21.1	12 27	3 17.81	+19 11.3	1.913	2.714	14.4	21.4
198190	2004 <i>TD</i> ₁₂₆		11 20.7 70°73	1.2°/20.2	18		412439	2014 <i>FT</i> ₃₄		11 20.7 252°11	2°3°/19.8	18	
10 18	4 16.01	+17 42.5	1.502	2.350	16.0	20.8	10 18	4 13.19	+14 25.8	1.762	2.607	14.1	20.9
10 28	4 9.25	+17 30.8	1.459	2.377	11.7	20.6	10 28	4 7.35	+14 12.7	1.681	2.598	10.5	20.7
11 7	3 59.98	+17 14.8	1.438	2.403	6.9	20.4	11 7	3 59.09	+13 58.4	1.625	2.588	6.4	20.4
11 17	3 49.27	+16 56.5	1.443	2.430	2.1	20.2	11 17	3 49.17	+13 45.1	1.595	2.579	2.7	20.2
11 27	3 38.52	+16 39.0	1.477	2.456	3.6	20.3	11 27	3 38.73	+13 35.6	1.593	2.569	4.2	20.2
12 7	3 29.06	+16 26.0	1.538	2.482	8.2	20.7	12 7	3 29.04	+13 32.8	1.620	2.559	8.4	20.5
12 17	3 21.87	+16 20.4	1.624	2.508	12.3	21.0	12 17	3 21.16	+13 39.1	1.673	2.548	12.5	20.7
12 27	3 17.56	+16 24.5	1.733	2.534	15.7	21.3	12 27	3 15.88	+13 56.1	1.747	2.538	16.0	20.9
176322	2001 <i>SB</i> ₂₁₂		11 20.7 72°08	3.4°/18.9	18		382620	2002 <i>PX</i> ₃₂		11 20.7 180°18	2.1°/19.4	18	
10 18	4 9.73	+12 36.4	1.871	2.720	13.3	20.4	10 18	4 11.49	+14 25.9	2.616	3.446	10.5	21.9
10 28	4 4.42	+11 52.2	1.808	2.726	9.8	20.2	10 28	4 5.26	+13 51.8	2.539	3.448	7.8	21.8
11 7	3 57.10	+11 7.4	1.769	2.732	6.2	20.0	11 7	3 57.45	+13 15.8	2.488	3.449	4.8	21.6
11 17	3 48.52	+10 26.0	1.757	2.737	3.5	19.8	11 17	3 48.66	+12 40.2	2.467	3.449	2.2	21.4
11 27	3 39.72	+9 52.1	1.774	2.743	4.9	19.9	11 27	3 39.65	+12 7.9	2.477	3.449	3.4	21.5
12 7	3 31.73	+9 29.4	1.819	2.749	8.3	20.2	12 7	3 31.22	+11 41.7	2.518	3.447	6.3	21.7
12 17	3 25.39	+9 20.0	1.889	2.754	11.8	20.4	12 17	3 24.05	+11 23.7	2.587	3.445	9.3	21.9
12 27	3 21.31	+9 24.5	1.982	2.760	14.8	20.6	12 27	3 18.66	+11 15.4	2.681	3.442	11.8	22.0
431690	2008 <i>DZ</i> ₃₅		11 20.7 211°67	4°4°/18.7	18		437959	2002 <i>TK</i> ₃₈₁		11 20.7 86°00	4°6°/23.1	15	
10 18	4 12.90	+11 40.3	1.591	2.443	15.1	21.3	10 18	4 18.93	+32 40.0	1.954	2.752	14.8	22.3
10 28	4 7.16	+10 45.6	1.522	2.440	11.3	21.0	10 28	4 11.31	+33 13.7	1.902	2.781	11.6	22.1
11 7	3 58.92	+9 50.3	1.476	2.437	7.3	20.8	11 7	4 1.24	+33 32.4	1.873	2.809	8.2	22.0
11 17	3 49.06	+8 59.2	1.455	2.433	4.5	20.6	11 17	3 49.69	+33 33.4	1.871	2.837	5.3	21.9
11 27	3 38.80	+8 18.3	1.463	2.429	6.1	20.7	11 27	3 37.99	+33 17.3	1.898	2.864	4.9	21.9
12 7	3 29.45	+7 52.2	1.497	2.425	10.0	20.9	12 7	3 27.45	+32 47.8	1.953	2.891	7.3	22.1
12 17	3 22.09	+7 43.4	1.557	2.420	14.0	21.2	12 17	3 19.07	+32 10.7	2.036	2.917	10.3	22.3
12 27	3 17.44	+7 52.5	1.637	2.415	17.4	21.4	12 27	3 13.48	+31 32.5	2.143	2.943	13.1	22.6
397196	2006 <i>BN</i> ₁₇₄		11 20.7 213°74	2°7°/22.3	17		440789	2006 <i>KK</i> ₉₂		11 20.7 91°54	1°6°/19.7	15	
10 18	4 11.08	+29 6.0	2.510	3.318	11.6	21.7	10 18	4 12.30	+19 39.9	1.828	2.669	13.9	21.7
10 28	4 5.28	+29 15.8	2.425	3.314	8.9	21.5	10 28	4 6.23	+18 26.6	1.772	2.688	10.1	21.5
11 7	3 57.60	+29 15.7	2.363	3.310	6.0	21.3	11 7	3 58.11	+17 5.7	1.741	2.706	6.0	21.3
11 17	3 48.68	+29 4.8	2.330	3.306	3.3	21.2	11 17	3 48.82	+15 41.6	1.738	2.724	2.0	21.1
11 27	3 39.42	+28 43.9	2.326	3.301	3.1	21.1	11 27	3 39.49	+14 20.5	1.765	2.741	3.7	21.3
12 7	3 30.75	+28 15.5	2.353	3.296	5.8	21.3	12 7	3 31.18	+13 8.4	1.821	2.759	7.7	21.6
12 17	3 23.50	+27 43.3	2.407	3.291	8.8	21.5	12 17	3 24.71	+12 10.1	1.904	2.776	11.4	21.8
12 27	3 18.29	+27 11.7	2.487	3.286	11.5	21.7	12 27	3 20.62	+11 28.3	2.009	2.793	14.4	22.1
242891	2006 <i>JD</i> ₅₇		11 20.7 149°43	5°5°/18.7	18		456580	2007 <i>DF</i> ₃₂		11 20.7 214°54	4°9°/17.2	17	
10 18	4 13.65	+4 48.2	1.890	2.727	13.7	20.3	10 18	4 7.97	+4 16.7	2.714	3.544	10.2	22.4
10 28	4 7.28	+4 28.5	1.826	2.731	10.6	20.2	10 28	4 2.66	+3 25.7	2.638	3.537	7.9	22.2
11 7	3 58.81	+4 16.2	1.786	2.735	7.4	20.0	11 7	3 55.91	+2 38.9	2.587	3.529	5.9	22.1
11 17	3 49.00	+4 14.8	1.773	2.739	5.5	19.9	11 17	3 48.25	+1 59.8	2.565	3.520	4.9	22.0
11 27	3 38.92	+4 27.0	1.788	2.742	6.5	20.0	11 27	3 40.35	+1 32.0	2.573	3.512	5.8	22.0
12 7	3 29.65	+4 54.0	1.832	2.745	9.4	20.1	12 7	3 32.93	+1 17.7	2.609	3.502	7.9	22.2
12 17	3 22.08	+5 35.1	1.901	2.748	12.6	20.3	12 17	3 26.61	+1 17.7	2.672	3.493	10.2	22.3
12 27	3 16.85	+6 28.8	1.993	2.751	15.4	20.5	12 27	3 21.87	+1 31.8	2.758	3.482	12.3	22.4
391235	2006 <i>KP</i> ₆₆		11 20.7 68°27	0°7°/20.4	18		76458	2000 <i>FA</i> ₃₉		11 20.7 204°73	1°4°/21.4	18	
10 18	4 13.75	+18 45.6	1.635	2.481	15.0	20.9	10 18	4 13.50	+23 49.9	2.162	2.986	12.7	19.8
10 28	4 7.58	+18 37.6	1.583	2.500	11.0	20.7	10 28	4 7.28	+24 3.2	2.079	2.983	9.5	19.6
11 7	3 59.04	+18 24.8	1.554	2.519	6.5	20.5	11 7	3 58.91	+24 9.4	2.022	2.979	5.9	19.4
11 17	3 49.06	+18 8.4	1.551	2.538	1.8	20.2	11 17	3 49.11	+24 7.8	1.992	2.976	2.3	19.1
11 27	3 38.92	+17 51.3	1.577	2.557	3.2	20.3	11 27	3 38.89	+23 59.3	1.992	2.972	2.7	19.1
12 7	3 29.87	+17 37.0	1.630	2.576	7.7	20.7	12 7	3 29.33	+23 46.2	2.021	2.967	6.4	19.4
12 17	3 22.89	+17 28.6	1.710	2.595	11.7	20.9	12 17	3 21.39	+23 32.1	2.079	2.963	10.0	19.6
12 27	3 18.59	+17 28.7	1.812	2.614	15.0	21.2	12 27	3 15.75	+23 20.7	2.161	2.958	13.1	19.8
5424	Covington		11 20.7 24°81	0°0°/20.7	18		349685	2008 <i>WA</i> ₁₀₈		11 20.7 317°88	3°9°/19.6	18	
10 18	4 13.20	+22 8.3	1.286	2.143	17.6	16.3	10 18	4 12.91	+9 55.3	1.513	2.367	15.6	20.0
10 28	4 7.97	+21 38.6	1.223	2.145	13.1	16.1	10 28	4 7.52	+9 56.8	1.434	2.353	11.8	19.8
11 7	3 59.64	+20 57.2	1.180	2.147	7.9	15.8	11 7	3 59.38	+10 3.2	1.378	2.340	7.6	19.5
11 17	3 49.29	+20 6.4	1.162	2.149	2.2	15.4	11 17	3 49.30	+10 17.2	1.347	2.327	4.2	19.3
11 27	3 38.53	+19 11.3	1.170	2.151	3.7	15.6	11 27	3 38.55	+10 41.1	1.343	2.315	5.6	19.3
12 7	3 29.00	+18 18.9	1.204	2.154	9.3	15.9	12 7	3 28.58	+11 16.4	1.366	2.303	9.8	19.5
12 17	3 22.00	+17 36.1	1.261	2.157	14.2	16.2	12 17	3 20.62	+12 3.0	1.414	2.292	14.2	19.8
12 27	3 18.32	+17 7.7	1.339	2.160	18.3	16.5	12 27	3 15.58	+13 0.5	1.482	2.281	17.9	20.0
367650	2009 <i>WR</i> ₈₅		11 20.7 306°47	2°7°/22.4	17		319340	2006 <i>BG</i> ₂₆₆					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
91534	1999 RC ₂₀₀		11 20.7 349°13	1°6/21.8	18		336564	2009 SQ ₂₆		11 20.7 144°46	2°1/19.7	16	
10 18	4 9.24	+27 26.2	1.892	2.723	13.9	18.8	10 18	4 14.71	+16 31.2	1.791	2.632	14.1	22.1
10 28	4 4.31	+26 48.2	1.814	2.720	10.5	18.5	10 28	4 8.19	+15 51.1	1.728	2.642	10.4	21.9
11 7	3 57.16	+25 56.2	1.760	2.718	6.7	18.3	11 7	3 59.42	+15 6.7	1.688	2.652	6.3	21.6
11 17	3 48.62	+24 51.5	1.732	2.715	2.7	18.0	11 17	3 49.26	+14 21.2	1.676	2.661	2.4	21.4
11 27	3 39.79	+23 38.2	1.733	2.714	2.8	18.1	11 27	3 38.89	+13 39.0	1.693	2.669	4.0	21.5
12 7	3 31.81	+22 22.2	1.763	2.712	6.9	18.3	12 7	3 29.48	+13 4.5	1.740	2.677	8.1	21.8
12 17	3 25.62	+21 10.1	1.819	2.711	10.7	18.5	12 17	3 21.96	+12 40.9	1.812	2.684	11.9	22.1
12 27	3 21.85	+20 7.6	1.900	2.711	14.1	18.8	12 27	3 16.98	+12 30.5	1.907	2.690	15.1	22.3
11229	Brookebowers		11 20.7 46°94	2°1/20.1	18		176324	2001 SA ₂₂₁		11 20.7 111°49	0°1/20.8	18	
10 18	4 14.85	+16 18.7	1.127	1.995	18.8	17.1	10 18	4 11.72	+21 18.0	2.019	2.854	13.0	20.9
10 28	4 9.22	+16 6.7	1.081	2.009	13.9	16.9	10 28	4 5.90	+21 4.9	1.951	2.862	9.6	20.7
11 7	4 0.37	+15 51.6	1.055	2.024	8.3	16.6	11 7	3 58.03	+20 45.1	1.907	2.870	5.8	20.5
11 17	3 49.52	+15 36.0	1.053	2.039	2.8	16.4	11 17	3 48.89	+20 19.8	1.891	2.877	1.6	20.2
11 27	3 38.42	+15 23.8	1.075	2.055	4.7	16.5	11 27	3 39.50	+19 51.4	1.904	2.885	2.6	20.3
12 7	3 28.82	+15 19.1	1.123	2.071	10.1	16.9	12 7	3 30.91	+19 23.5	1.946	2.892	6.7	20.6
12 17	3 21.99	+15 24.9	1.193	2.087	15.0	17.2	12 17	3 24.00	+18 59.6	2.016	2.899	10.3	20.8
12 27	3 18.63	+15 42.8	1.283	2.104	19.0	17.5	12 27	3 19.37	+18 43.1	2.109	2.906	13.4	21.0
467327	2001 UP ₈₁		11 20.7 10°15	9°6/20.5	17		40443	1999 RU ₃₅		11 20.7 94°88	3°5/22.6	18	
10 18	4 31.46	+26 9.7	0.919	1.767	23.7	20.1	10 18	4 17.22	+30 22.4	1.868	2.679	14.9	19.8
10 28	4 24.16	+29 35.6	0.859	1.767	18.9	19.8	10 28	4 10.10	+30 33.1	1.813	2.702	11.5	19.7
11 7	4 11.00	+33 2.5	0.819	1.768	13.7	19.5	11 7	4 0.55	+30 29.5	1.780	2.725	7.7	19.5
11 17	3 52.86	+36 9.2	0.803	1.770	9.9	19.3	11 17	3 49.57	+30 10.4	1.774	2.748	4.3	19.3
11 27	3 32.37	+38 35.0	0.812	1.773	10.7	19.4	11 27	3 38.44	+29 37.4	1.796	2.770	4.0	19.4
12 7	3 13.22	+40 11.7	0.844	1.776	15.0	19.6	12 7	3 28.45	+28 55.0	1.848	2.792	7.1	19.6
12 17	2 58.64	+41 6.5	0.898	1.781	19.8	19.9	12 17	3 20.60	+28 9.2	1.927	2.814	10.5	19.8
12 27	2 50.44	+41 35.5	0.969	1.786	24.0	20.2	12 27	3 15.50	+27 26.1	2.030	2.834	13.5	20.1
131391	2001 KR ₅₅		11 20.7 264°94	5°6/17.9	17		196384	2003 GW ₅		11 20.7 201°76	0°9/21.2	18	
10 18	4 9.55	+ 2 4.7	2.332	3.162	11.7	19.5	10 18	4 14.34	+23 18.0	1.929	2.759	13.7	21.2
10 28	4 4.03	+ 1 41.2	2.260	3.157	9.2	19.3	10 28	4 8.09	+23 11.6	1.849	2.756	10.3	21.0
11 7	3 56.82	+ 1 25.3	2.214	3.153	6.9	19.1	11 7	3 59.49	+22 56.5	1.792	2.752	6.3	20.8
11 17	3 48.53	+ 1 20.6	2.194	3.148	5.6	19.0	11 17	3 49.33	+22 32.9	1.763	2.748	2.1	20.5
11 27	3 39.98	+ 1 29.6	2.203	3.144	6.5	19.1	11 27	3 38.74	+22 3.1	1.763	2.744	2.8	20.5
12 7	3 31.99	+ 1 53.4	2.241	3.139	8.7	19.2	12 7	3 28.95	+21 30.7	1.792	2.739	7.1	20.8
12 17	3 25.30	+ 2 31.7	2.304	3.135	11.3	19.4	12 17	3 20.97	+21 0.3	1.848	2.733	11.0	21.0
12 27	3 20.47	+ 3 22.9	2.391	3.130	13.6	19.6	12 27	3 15.53	+20 36.3	1.928	2.727	14.4	21.2
189920	2003 SE ₁₅₀		11 20.7 36°59	1°1/20.3	18		246964	1999 TG ₆₁		11 20.7 132°05	4°5/23.4	18	
10 18	4 11.16	+16 10.2	1.962	2.805	13.0	19.4	10 18	4 18.22	+34 16.9	2.282	3.066	13.4	21.6
10 28	4 5.51	+16 19.3	1.897	2.812	9.6	19.2	10 28	4 10.67	+34 40.5	2.215	3.083	10.6	21.4
11 7	3 57.82	+16 26.9	1.856	2.820	5.7	19.0	11 7	4 0.87	+34 49.5	2.171	3.100	7.6	21.3
11 17	3 48.82	+16 33.9	1.842	2.829	1.8	18.7	11 17	3 49.67	+34 41.9	2.154	3.116	5.1	21.2
11 27	3 39.53	+16 41.7	1.858	2.837	3.1	18.8	11 27	3 38.22	+34 17.7	2.168	3.131	4.7	21.2
12 7	3 31.01	+16 52.1	1.903	2.846	7.0	19.1	12 7	3 27.70	+33 40.5	2.210	3.145	6.8	21.3
12 17	3 24.13	+17 6.7	1.974	2.855	10.6	19.3	12 17	3 19.07	+32 55.4	2.282	3.158	9.5	21.5
12 27	3 19.53	+17 27.1	2.069	2.865	13.6	19.5	12 27	3 12.97	+32 8.8	2.378	3.171	12.1	21.7
521314	2015 KK ₁₇₀		11 20.7 49°37	3°6/19.3	18		338426	2003 CO ₂		11 20.7 331°87	21°9/30.9	17	
10 18	4 12.31	+12 45.5	1.458	2.316	15.9	21.0	10 18	4 22.53	+56 29.2	0.989	1.741	28.8	19.8
10 28	4 6.83	+12 13.4	1.401	2.323	11.8	20.8	10 28	4 19.60	+58 52.2	0.930	1.731	26.8	19.6
11 7	3 58.77	+11 41.5	1.366	2.331	7.3	20.5	11 7	4 9.26	+60 35.4	0.883	1.722	24.7	19.5
11 17	3 49.10	+11 13.7	1.357	2.338	3.8	20.4	11 17	3 52.51	+61 19.2	0.849	1.713	23.0	19.3
11 27	3 39.13	+10 54.3	1.374	2.346	5.4	20.5	11 27	3 33.25	+60 48.5	0.829	1.705	22.0	19.2
12 7	3 30.23	+10 46.8	1.418	2.355	9.6	20.7	12 7	3 16.82	+59 4.1	0.824	1.698	22.1	19.2
12 17	3 23.46	+10 53.3	1.486	2.363	13.7	21.0	12 17	3 7.09	+56 22.4	0.835	1.693	23.4	19.3
12 27	3 19.53	+11 14.0	1.575	2.372	17.2	21.3	12 27	3 5.28	+53 8.9	0.861	1.688	25.5	19.4
442435	2011 UC ₁₅₀		11 20.7 74°74	2°7/19.1	15		509068	2005 TN ₁₃₁		11 20.7 78°12	2°5/19.6	18	
10 18	4 11.64	+16 26.9	1.707	2.556	14.3	21.3	10 18	4 13.71	+16 39.7	1.468	2.322	16.0	21.5
10 28	4 5.84	+15 15.6	1.657	2.576	10.5	21.1	10 28	4 7.72	+15 49.7	1.418	2.339	11.7	21.3
11 7	3 57.93	+14 0.0	1.631	2.596	6.3	20.9	11 7	3 59.20	+14 55.1	1.391	2.356	7.0	21.1
11 17	3 48.82	+12 45.0	1.632	2.615	2.9	20.8	11 17	3 49.20	+14 0.3	1.389	2.374	2.8	20.9
11 27	3 39.65	+11 36.8	1.662	2.635	4.6	20.9	11 27	3 39.08	+13 10.8	1.415	2.391	4.6	21.0
12 7	3 31.53	+10 40.7	1.721	2.655	8.4	21.2	12 7	3 30.17	+12 32.1	1.468	2.408	9.0	21.3
12 17	3 25.31	+10 0.3	1.805	2.674	12.1	21.4	12 17	3 23.47	+12 7.5	1.546	2.425	13.1	21.6
12 27	3 21.52	+ 9 37.2	1.911	2.693	15.1	21.7	12 27	3 19.59	+11 58.9	1.645	2.441	16.6	21.9
477284	2009 SW ₁₅₁		11 20.7 353°84	0°2/20.6	18		75307	1999 XM ₃₇		11 20.7 18°64	4°7/22.8	18	
10 18	4 8.88	+20 56.2	1.093	1.968	18.8	21.0	10 18	4 12.68	+30 48.0	1.158	2.006	19.8	17.7
10 28	4 5.29	+20 39.6	1.031	1.962	14.0	20.7	10 28	4 8.12	+30 56.2	1.100	2.010	15.4	17.5
11 7	3 58.33	+20 12.5	0.987	1.957	8.5	20.4	11 7	3 59.99	+30 43.3	1.060	2.015	10.5	17.2
11 17	3 49.06	+19 37.1	0.966	1.953	2.3	20.0	11 17	3 49.50	+30 7.4	1.043	2.021	5.8	17.0
11 27	3 39.17	+18 58.1	0.969	1.951	4.0	20.1	11 27	3 38.54	+29 11.0	1.050	2.027	5.3	17.0
12 7	3 30.51	+18 22.4	0.996	1.950	10.1	20.5	12 7	3 29.07	+28 2.4	1.082	2.035	9.6	17.2
12 17	3 24.53	+17 56.2	1.044	1.950	15.5	20.8	12 17	3 22.54	+26 51.8	1.136	2.043	14.4	17.5
12 27	3 22.14	+17 44.1	1.112	1.952	20.0	21.1	12 27	3 19.77	+25 49.1	1.211	2.052	18.6	17.8
356406	2010 SG ₈		11 20.7 123°62	0°7/20.3	18		310200	2011 SS ₁₂₅		11 20.7 129°33	0°7/21.1	18	
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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
160910	2001 VO ₆		11 20.7 77°37'	1.0°/21.2	18		146429	2001 QQ ₂₅₈		11 20.7 53°16'	0.7°/20.4	18	
10 18	4 12.67	+23 3.4	1.912	2.745	13.7	20.2	10 18	4 11.17	+20 56.0	1.630	2.478	15.0	20.0
10 28	4 6.73	+23 8.2	1.847	2.756	10.2	20.0	10 28	4 5.69	+20 10.5	1.579	2.497	11.0	19.8
11 7	3 58.59	+23 5.3	1.806	2.767	6.3	19.8	11 7	3 57.95	+19 16.7	1.551	2.517	6.5	19.6
11 17	3 49.06	+22 54.8	1.793	2.778	2.1	19.5	11 17	3 48.89	+18 18.0	1.550	2.537	1.8	19.3
11 27	3 39.27	+22 38.4	1.808	2.789	2.7	19.6	11 27	3 39.74	+17 19.4	1.577	2.557	3.3	19.5
12 7	3 30.35	+22 19.4	1.852	2.800	6.8	19.9	12 7	3 31.69	+16 26.7	1.632	2.578	7.7	19.8
12 17	3 23.24	+22 1.4	1.923	2.811	10.5	20.1	12 17	3 25.64	+15 44.3	1.713	2.598	11.7	20.1
12 27	3 18.57	+21 48.3	2.018	2.822	13.6	20.4	12 27	3 22.15	+15 15.4	1.816	2.619	14.9	20.3
382707	2002 WD ₁₉		11 20.7 4°44'	1°8'/20.1	18		265190	2004 BD ₂₄		11 20.7 275°96'	0°5'/20.9	18	
10 18	4 9.32	+17 26.1	1.064	1.942	18.8	20.6	10 18	4 14.06	+22 26.8	1.538	2.382	15.9	21.6
10 28	4 5.54	+17 8.3	1.008	1.941	14.0	20.4	10 28	4 8.62	+22 14.2	1.447	2.362	12.0	21.3
11 7	3 58.43	+16 45.1	0.971	1.941	8.4	20.1	11 7	4 0.21	+21 51.5	1.379	2.342	7.4	21.0
11 17	3 49.09	+16 19.6	0.956	1.943	2.7	19.7	11 17	3 49.65	+21 18.9	1.336	2.322	2.2	20.6
11 27	3 39.23	+15 56.8	0.965	1.946	4.7	19.9	11 27	3 38.29	+20 39.3	1.321	2.302	3.4	20.6
12 7	3 30.66	+15 42.0	0.998	1.950	10.5	20.2	12 7	3 27.70	+19 57.9	1.332	2.281	8.7	20.9
12 17	3 24.78	+15 39.3	1.053	1.956	15.7	20.5	12 17	3 19.26	+19 20.7	1.369	2.261	13.6	21.1
12 27	3 22.44	+15 50.8	1.126	1.962	20.0	20.8	12 27	3 13.95	+18 53.6	1.428	2.240	17.8	21.4
392356	2010 GN ₃₂		11 20.7 219°32'	2°4'/19.6	18		79233	1994 PK ₂₅		11 20.7 89°45'	2°2'/19.8	18	
10 18	4 12.84	+13 36.7	2.067	2.905	12.6	21.5	10 18	4 15.33	+16 8.9	1.526	2.375	15.7	19.5
10 28	4 6.76	+13 18.0	1.985	2.898	9.4	21.3	10 28	4 8.86	+15 39.6	1.475	2.394	11.6	19.2
11 7	3 58.62	+12 58.4	1.928	2.890	5.8	21.1	11 7	3 59.89	+15 7.0	1.447	2.412	6.9	19.0
11 17	3 49.09	+12 40.3	1.899	2.882	2.7	20.9	11 17	3 49.43	+14 34.2	1.446	2.431	2.6	18.8
11 27	3 39.17	+12 26.4	1.900	2.873	4.0	21.0	11 27	3 38.84	+14 5.3	1.472	2.449	4.2	19.0
12 7	3 29.89	+12 19.3	1.930	2.864	7.6	21.2	12 7	3 29.44	+13 44.4	1.526	2.467	8.7	19.3
12 17	3 22.16	+12 21.3	1.987	2.854	11.2	21.4	12 17	3 22.23	+13 34.5	1.606	2.484	12.7	19.6
12 27	3 16.67	+12 33.5	2.067	2.844	14.3	21.6	12 27	3 17.84	+13 37.2	1.707	2.501	16.1	19.8
90716	1991 GY ₈		11 20.7 241°02'	5°4'/22.8	18		150533	2000 SE ₅₇		11 20.7 56°79'	0°5'/21.0	18	
10 18	4 18.55	+32 55.5	1.932	2.730	14.9	18.5	10 18	4 10.89	+22 30.6	1.899	2.737	13.6	20.3
10 28	4 11.74	+33 48.2	1.841	2.719	12.0	18.3	10 28	4 5.44	+22 18.5	1.833	2.745	10.1	20.1
11 7	4 2.00	+34 28.2	1.773	2.707	8.7	18.1	11 7	3 57.84	+21 58.5	1.790	2.752	6.1	19.8
11 17	3 50.11	+34 50.8	1.732	2.694	6.0	17.9	11 17	3 48.89	+21 31.5	1.773	2.759	1.8	19.6
11 27	3 37.40	+34 53.7	1.718	2.681	5.7	17.9	11 27	3 39.67	+21 0.2	1.786	2.767	2.7	19.7
12 7	3 25.38	+34 38.8	1.733	2.668	8.3	18.0	12 7	3 31.30	+20 28.5	1.827	2.775	6.8	19.9
12 17	3 15.42	+34 11.1	1.775	2.654	11.7	18.2	12 17	3 24.69	+20 0.5	1.895	2.783	10.6	20.2
12 27	3 8.50	+33 38.1	1.840	2.640	14.9	18.4	12 27	3 20.46	+19 39.7	1.986	2.791	13.8	20.4
389386	2009 WB ₁₆₄		11 20.7 10°63'	1°2'/21.2	18		187022	2005 BJ ₁		11 20.7 106°79'	4°3'/21.1	18	
10 18	4 10.46	+23 38.1	1.150	2.016	18.7	21.1	10 18	4 30.85	+21 55.5	1.152	1.988	20.6	19.2
10 28	4 6.29	+23 29.8	1.092	2.018	14.0	20.8	10 28	4 22.15	+24 2.9	1.088	1.996	15.8	18.9
11 7	3 58.83	+23 8.7	1.054	2.020	8.6	20.5	11 7	4 8.87	+26 9.3	1.046	2.003	10.2	18.7
11 17	3 49.20	+22 35.6	1.038	2.024	2.8	20.2	11 17	3 52.13	+28 3.9	1.030	2.010	5.1	18.4
11 27	3 39.09	+21 54.6	1.047	2.029	3.7	20.3	11 27	3 34.17	+29 37.1	1.042	2.017	5.8	18.5
12 7	3 30.30	+21 12.4	1.081	2.036	9.4	20.6	12 7	3 17.62	+30 45.7	1.081	2.024	11.1	18.8
12 17	3 24.19	+20 36.1	1.137	2.043	14.5	20.9	12 17	3 4.64	+31 34.0	1.145	2.030	16.2	19.1
12 27	3 21.58	+20 11.2	1.213	2.051	18.8	21.2	12 27	2 56.49	+32 10.4	1.229	2.037	20.4	19.4
507128	2009 UF ₂₇		11 20.7 132°58'	4°6'/21.1	17		442259	2011 PW ₁₃		11 20.7 111°91'	5°6'/24.3	18	
10 18	4 30.28	+22 34.5	1.164	2.000	20.5	20.7	10 18	4 16.11	+37 23.7	1.862	2.651	15.7	20.6
10 28	4 21.79	+24 39.9	1.097	2.004	15.7	20.5	10 28	4 9.58	+37 19.5	1.792	2.661	12.7	20.4
11 7	4 8.70	+26 44.0	1.051	2.008	10.3	20.2	11 7	4 0.40	+36 54.5	1.744	2.670	9.4	20.3
11 17	3 52.08	+28 36.2	1.032	2.011	5.3	19.9	11 17	3 49.59	+36 6.7	1.721	2.680	6.4	20.1
11 27	3 34.12	+30 6.8	1.040	2.015	6.0	20.0	11 27	3 38.56	+34 57.9	1.726	2.689	5.7	20.1
12 7	3 17.46	+31 12.6	1.075	2.018	11.2	20.3	12 7	3 28.72	+33 34.2	1.759	2.698	7.8	20.2
12 17	3 4.32	+31 57.8	1.135	2.021	16.3	20.6	12 17	3 21.13	+32 4.0	1.819	2.707	11.0	20.4
12 27	2 56.02	+32 31.4	1.215	2.024	20.6	20.9	12 27	3 16.47	+30 36.1	1.903	2.715	14.0	20.7
472348	2015 BU		11 20.7 228°58'	2°6'/21.7	18		351076	2003 UT ₅₁		11 20.7 5°75'	8°2'/25.2	16	
10 18	4 16.90	+26 13.4	1.466	2.302	17.0	21.4	10 18	4 11.39	+39 22.2	1.327	2.140	19.7	20.5
10 28	4 10.78	+26 25.9	1.389	2.297	13.0	21.2	10 28	4 7.20	+39 42.3	1.262	2.140	16.2	20.2
11 7	4 1.48	+26 25.9	1.334	2.292	8.4	20.9	11 7	3 59.48	+39 35.0	1.214	2.141	12.5	20.0
11 17	3 49.96	+26 11.6	1.304	2.287	3.7	20.6	11 17	3 49.42	+38 55.9	1.189	2.143	9.3	19.8
11 27	3 37.77	+25 44.2	1.301	2.281	3.9	20.6	11 27	3 38.85	+37 45.6	1.187	2.147	8.2	19.8
12 7	3 26.63	+25 8.3	1.326	2.275	8.7	20.9	12 7	3 29.72	+36 11.7	1.209	2.151	10.3	19.9
12 17	3 17.96	+24 30.7	1.375	2.269	13.4	21.1	12 17	3 23.46	+34 26.1	1.256	2.157	13.8	20.2
12 27	3 12.67	+23 58.4	1.446	2.263	17.4	21.4	12 27	3 20.90	+32 41.6	1.323	2.163	17.4	20.4
349725	2008 YK ₆₅		11 20.7 27°57'	9°4'/18.9	18		356609	2011 UY ₁		11 20.7 72°73'	3°0'/22.1	18	
10 18	4 13.10	- 1 16.0	1.256	2.108	18.3	19.4	10 18	4 14.02	+27 45.6	1.795	2.620	14.8	21.1
10 28	4 7.52	- 1 37.0	1.215	2.120	14.7	19.2	10 28	4 8.05	+28 4.3	1.726	2.627	11.3	20.9
11 7	3 59.21	- 1 39.6	1.194	2.134	11.3	19.0	11 7	3 59.54	+28 11.3	1.680	2.633	7.5	20.7
11 17	3 49.24	- 1 18.4	1.196	2.149	9.4	19.0	11 17	3 49.40	+28 5.3	1.660	2.639	3.8	20.5
11 27	3 39.10	- 0 30.8	1.222	2.164	10.3	19.1	11 27	3 38.86	+27 47.0	1.668	2.645	3.7	20.5
12 7	3 30.24	+ 0 41.3	1.272	2.181	13.1	19.3	12 7	3 29.26	+27 20.1	1.705	2.652	7.3	20.7
12 17	3 23.75	+ 2 13.0	1.345	2.198	16.4	19.5	12 17	3 21.68	+26 49.8	1.767	2.658	11.1	20.9
12 27	3 20.26	+ 3 58.6	1.437	2.217	19.3	19.8	12 27	3 16.85	+26 21.5	1.853	2.665	14.4	21.2
70861	1999 VN ₁₃₄		11 20.7 219°66'	0°3'/20.9	18		368823	2006 BD ₁₀₈		11 20.7 204°61'	0°1'/20.7	17	
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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
517529	2014 <i>RF</i> ₄₄		11 20.8	58°81'	1°2/21.5	18	21478	Maggiedelano		11 20.8	71°61'	5°9/17.9	18
10 18	4 10.89	+25 24.4	2.022	2.851	13.2	20.8	10 18	4 10.75	+3 50.4	1.996	2.833	13.0	18.5
10 28	4 5.17	+25 0.0	1.969	2.875	9.8	20.6	10 28	4 4.94	+3 6.9	1.952	2.856	10.1	18.4
11 7	3 57.53	+24 25.6	1.940	2.899	6.1	20.4	11 7	3 57.37	+2 31.1	1.934	2.878	7.3	18.3
11 17	3 48.79	+23 42.6	1.939	2.923	2.2	20.2	11 17	3 48.80	+2 7.0	1.942	2.900	5.9	18.2
11 27	3 39.97	+22 54.2	1.967	2.948	2.5	20.3	11 27	3 40.16	+1 57.9	1.978	2.922	6.8	18.3
12 7	3 32.10	+22 5.0	2.024	2.972	6.3	20.6	12 7	3 32.37	+2 5.3	2.041	2.944	9.2	18.5
12 17	3 25.95	+21 19.3	2.108	2.996	9.7	20.8	12 17	3 26.15	+2 28.6	2.130	2.966	11.9	18.7
12 27	3 22.03	+20 41.3	2.217	3.020	12.6	21.1	12 27	3 22.01	+3 6.1	2.241	2.987	14.2	18.9
514340	2016 <i>PZ</i> ₈₉		11 20.8	44°61'	0°4/20.9	18	124966	2001 <i>TH</i> ₁₀₅		11 20.8	5°44'	1°3/21.3	18 R
10 18	4 14.56	+20 43.2	1.305	2.161	17.5	20.9	10 18	4 9.68	+23 30.9	1.134	2.001	18.7	18.6
10 28	4 8.88	+20 51.1	1.252	2.173	13.0	20.6	10 28	4 5.83	+23 27.4	1.074	2.001	14.1	18.4
11 7	4 0.18	+20 51.7	1.220	2.186	7.8	20.4	11 7	3 58.67	+23 11.5	1.035	2.001	8.7	18.1
11 17	3 49.59	+20 45.2	1.213	2.199	2.2	20.1	11 17	3 49.27	+22 43.6	1.017	2.004	2.9	17.7
11 27	3 38.67	+20 33.9	1.232	2.213	3.5	20.2	11 27	3 39.35	+22 7.6	1.025	2.007	3.7	17.8
12 7	3 29.05	+20 22.1	1.277	2.228	8.7	20.6	12 7	3 30.71	+21 29.8	1.056	2.012	9.4	18.2
12 17	3 21.95	+20 14.1	1.346	2.242	13.4	20.9	12 17	3 24.74	+20 57.1	1.110	2.017	14.6	18.5
12 27	3 18.12	+20 13.7	1.436	2.257	17.3	21.2	12 27	3 22.30	+20 35.2	1.183	2.025	18.9	18.8
483099	2015 <i>MV</i> ₈₇		11 20.8	51°29'	3°3/19.1	18	223552	2004 <i>EJ</i> ₇₆		11 20.8	216°80'	0°8/21.1	18
10 18	4 10.83	+13 57.7	1.617	2.472	14.7	21.1	10 18	4 15.55	+22 50.8	1.799	2.631	14.5	21.3
10 28	4 5.58	+13 8.0	1.556	2.476	10.9	20.9	10 28	4 9.23	+22 48.0	1.717	2.625	10.9	21.1
11 7	3 58.01	+12 16.1	1.517	2.481	6.8	20.7	11 7	4 0.35	+22 36.7	1.658	2.618	6.7	20.8
11 17	3 48.97	+11 26.5	1.505	2.486	3.5	20.5	11 17	3 49.71	+22 16.8	1.625	2.611	2.2	20.5
11 27	3 39.66	+10 44.5	1.520	2.492	5.1	20.6	11 27	3 38.55	+21 50.3	1.622	2.603	2.9	20.5
12 7	3 31.29	+10 14.4	1.563	2.497	9.1	20.9	12 7	3 28.21	+21 21.0	1.648	2.595	7.5	20.8
12 17	3 24.84	+9 59.2	1.630	2.503	12.9	21.1	12 17	3 19.80	+20 53.8	1.700	2.586	11.7	21.0
12 27	3 20.96	+10 0.0	1.719	2.508	16.2	21.3	12 27	3 14.13	+20 33.2	1.775	2.576	15.3	21.2
491495	2012 <i>HK</i> ₇₈		11 20.8	215°98'	0°7/20.4	18	323596	2004 <i>TC</i> ₂₉₄		11 20.8	332°67'	2°2/21.8	17
10 18	4 11.42	+16 54.8	2.716	3.542	10.3	21.6	10 18	4 12.71	+25 39.4	2.151	2.973	12.8	20.8
10 28	4 5.36	+17 5.4	2.629	3.536	7.6	21.4	10 28	4 6.82	+26 7.3	2.072	2.972	9.7	20.6
11 7	3 57.67	+17 14.5	2.568	3.530	4.6	21.2	11 7	3 58.77	+26 27.4	2.017	2.971	6.3	20.4
11 17	3 48.89	+17 22.3	2.537	3.524	1.3	20.9	11 17	3 49.26	+26 38.4	1.989	2.970	2.9	20.2
11 27	3 39.77	+17 29.9	2.538	3.517	2.3	21.0	11 27	3 39.31	+26 40.4	1.991	2.969	3.1	20.2
12 7	3 31.12	+17 38.6	2.569	3.510	5.6	21.2	12 7	3 30.02	+26 35.4	2.022	2.968	6.4	20.4
12 17	3 23.65	+17 49.8	2.629	3.502	8.6	21.4	12 17	3 22.35	+26 26.7	2.081	2.967	9.9	20.6
12 27	3 17.93	+18 5.1	2.715	3.494	11.2	21.6	12 27	3 17.00	+26 18.3	2.164	2.967	12.9	20.8
256508	2007 <i>EZ</i> ₁₀₅		11 20.8	331°41'	2°4/21.5	17	215961	2005 <i>NC</i> ₁₂₂		11 20.8	111°21'	1°6/20.2	18
10 18	4 10.32	+24 10.9	1.524	2.372	15.8	20.0	10 18	4 16.83	+15 59.4	1.591	2.435	15.5	20.4
10 28	4 6.00	+24 43.5	1.435	2.350	12.1	19.7	10 28	4 10.08	+15 58.7	1.532	2.448	11.4	20.2
11 7	3 58.75	+25 8.5	1.369	2.330	7.8	19.4	11 7	4 0.75	+15 55.9	1.495	2.460	6.8	19.9
11 17	3 49.32	+25 23.9	1.326	2.310	3.4	19.1	11 17	3 49.78	+15 52.4	1.486	2.471	2.3	19.7
11 27	3 39.01	+25 29.4	1.310	2.291	3.7	19.0	11 27	3 38.53	+15 50.4	1.504	2.483	3.8	19.8
12 7	3 29.39	+25 27.3	1.321	2.273	8.4	19.3	12 7	3 28.35	+15 52.5	1.551	2.494	8.3	20.1
12 17	3 21.84	+25 21.6	1.356	2.256	13.1	19.5	12 17	3 20.32	+16 1.1	1.624	2.505	12.5	20.4
12 27	3 17.41	+25 17.8	1.412	2.240	17.2	19.7	12 27	3 15.16	+16 18.1	1.719	2.515	16.0	20.6
157165	2004 <i>PT</i> ₃₆		11 20.8	142°96'	1°5/20.0	18	303612	2005 <i>JF</i> ₃₀		11 20.8	261°02'	2°5/22.3	18
10 18	4 13.12	+18 21.6	1.746	2.590	14.3	20.5	10 18	4 12.62	+29 33.9	1.961	2.779	14.0	20.5
10 28	4 7.19	+17 43.2	1.679	2.596	10.6	20.3	10 28	4 6.98	+29 6.7	1.869	2.765	10.8	20.2
11 7	3 58.95	+16 58.8	1.636	2.601	6.3	20.0	11 7	3 58.95	+28 24.1	1.799	2.751	7.1	20.0
11 17	3 49.26	+16 11.2	1.620	2.606	2.0	19.8	11 17	3 49.32	+27 25.8	1.757	2.737	3.4	19.7
11 27	3 39.30	+15 24.8	1.632	2.610	3.6	19.9	11 27	3 39.23	+26 14.7	1.743	2.722	3.3	19.7
12 7	3 30.26	+14 44.4	1.673	2.615	8.0	20.2	12 7	3 29.93	+24 56.6	1.759	2.707	7.0	19.9
12 17	3 23.13	+14 14.1	1.740	2.619	11.9	20.4	12 17	3 22.45	+23 38.4	1.802	2.692	10.9	20.1
12 27	3 18.56	+13 56.6	1.830	2.622	15.3	20.6	12 27	3 17.55	+22 27.1	1.870	2.677	14.4	20.3
221418	2005 <i>YJ</i> ₁₆₄		11 20.8	267°68'	0°3/20.9	17	242775	2005 <i>XO</i> ₁₁₁		11 20.8	303°39'	1°7/19.9	17
10 18	4 10.00	+21 58.8	2.182	3.015	12.2	21.3	10 18	4 8.72	+16 9.4	2.091	2.935	12.3	20.5
10 28	4 4.70	+21 46.2	2.098	3.007	9.1	21.1	10 28	4 3.80	+15 46.9	2.007	2.924	9.1	20.3
11 7	3 57.43	+21 26.7	2.038	2.999	5.5	20.9	11 7	3 56.92	+15 21.3	1.948	2.913	5.5	20.0
11 17	3 48.86	+21 1.1	2.005	2.992	1.6	20.6	11 17	3 48.74	+14 54.9	1.917	2.902	2.1	19.8
11 27	3 39.91	+20 31.6	2.002	2.983	2.5	20.7	11 27	3 40.17	+14 30.6	1.914	2.891	3.4	19.8
12 7	3 31.58	+20 1.5	2.029	2.975	6.4	20.9	12 7	3 32.20	+14 11.6	1.941	2.881	7.2	20.1
12 17	3 24.75	+19 34.5	2.083	2.967	10.0	21.1	12 17	3 25.67	+14 0.7	1.994	2.870	10.7	20.3
12 27	3 20.04	+19 14.0	2.161	2.959	13.0	21.3	12 27	3 21.26	+13 59.6	2.070	2.860	13.8	20.5
260571	2005 <i>EJ</i> ₂₆₃		11 20.8	153°90'	2°2/19.7	17	24016	1999 <i>RK</i> ₁₂₆		11 20.8	354°58'	1°5/21.4	18
10 18	4 15.19	+16 18.2	1.763	2.604	14.3	21.3	10 18	4 6.27	+24 56.7	1.127	1.997	18.6	17.6
10 28	4 8.64	+15 35.7	1.698	2.612	10.6	21.1	10 28	4 3.41	+24 38.8	1.061	1.989	14.1	17.3
11 7	3 59.79	+14 48.9	1.656	2.620	6.4	20.9	11 7	3 57.29	+24 5.0	1.016	1.982	8.8	17.0
11 17	3 49.49	+14 1.2	1.642	2.627	2.6	20.7	11 17	3 48.93	+23 16.7	0.992	1.978	3.1	16.7
11 27	3 38.95	+13 17.0	1.658	2.633	4.1	20.8	11 27	3 39.97	+22 18.6	0.992	1.975	3.7	16.7
12 7	3 29.38	+12 41.0	1.702	2.638	8.3	21.0	12 7	3 32.20	+21 18.8	1.016	1.973	9.5	17.0
12 17	3 21.72	+12 16.6	1.772	2.643	12.2	21.3	12 17	3 27.01	+20 25.8	1.063	1.974	14.8	17.3
12 27	3 16.65	+12 5.9	1.865	2.647	15.4	21.5	12 27	3 25.29	+19 46.2	1.128	1.976	19.2	17.6
210153	2006 <i>SO</i> ₁₂₉		11 20.8	183°98'	2°4/22.1	18	223405	2003 <i>SK</i> ₁₅₅		11 20.8			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
406262	2007 <i>EB</i> ₄		11 20.8 340°48	9°0/24.8	17		147117	2002 <i>TD</i> ₈₃		11 20.8 356°93	0°9/20.6	18	
10 18	4 16.74	+42 17.2	1.885	2.651	16.4	20.7	10 18	4 12.95	+16 27.0	1.090	1.962	19.0	18.9
10 28	4 10.83	+43 32.8	1.806	2.645	14.0	20.5	10 28	4 8.43	+16 56.4	1.028	1.958	14.2	18.6
11 7	4 1.69	+44 29.3	1.748	2.640	11.5	20.3	11 7	4 0.38	+17 25.6	0.986	1.955	8.6	18.3
11 17	3 50.18	+45 0.2	1.713	2.635	9.6	20.2	11 17	3 49.83	+17 54.2	0.966	1.953	2.5	17.9
11 27	3 37.81	+45 1.9	1.703	2.631	9.1	20.2	11 27	3 38.53	+18 22.8	0.970	1.952	4.2	18.1
12 7	3 26.33	+44 36.2	1.719	2.627	10.3	20.2	12 7	3 28.42	+18 52.9	0.999	1.953	10.2	18.4
12 17	3 17.24	+43 49.3	1.760	2.624	12.6	20.4	12 17	3 21.08	+19 26.6	1.050	1.954	15.6	18.7
12 27	3 11.57	+42 50.8	1.822	2.621	15.1	20.5	12 27	3 17.53	+20 6.1	1.121	1.957	20.1	19.0
408396	2013 <i>GL</i> ₁₁₁		11 20.8 85°65	1°5/20.1	18		265236	2004 <i>DE</i> ₃₆		11 20.8 256°98	1°3/21.4	18	
10 18	4 11.35	+15 33.9	2.165	3.003	12.1	20.1	10 18	4 14.88	+24 35.4	1.693	2.527	15.2	21.3
10 28	4 5.49	+15 29.5	2.102	3.015	8.9	19.9	10 28	4 9.04	+24 24.0	1.602	2.511	11.5	21.0
11 7	3 57.80	+15 23.7	2.064	3.027	5.3	19.7	11 7	4 0.41	+24 1.1	1.534	2.494	7.2	20.7
11 17	3 48.97	+15 17.9	2.054	3.039	1.9	19.5	11 17	3 49.81	+23 26.6	1.491	2.476	2.6	20.4
11 27	3 39.93	+15 13.9	2.074	3.051	3.1	19.6	11 27	3 38.52	+22 42.8	1.477	2.458	3.2	20.4
12 7	3 31.62	+15 13.8	2.123	3.063	6.6	19.9	12 7	3 28.01	+21 54.7	1.491	2.440	8.0	20.7
12 17	3 24.82	+15 19.4	2.200	3.075	9.9	20.1	12 17	3 19.52	+21 8.5	1.531	2.421	12.5	20.9
12 27	3 20.09	+15 32.0	2.301	3.087	12.7	20.3	12 27	3 13.96	+20 30.3	1.594	2.402	16.5	21.1
523488	2017 <i>GL</i> ₁₀		11 20.8 254°51	2°1/19.6	18		78705	2002 <i>TE</i> ₁₈₀		11 20.8 285°83	10°8/23.5	18	
10 18	4 8.92	+13 26.6	2.552	3.388	10.6	21.8	10 18	4 25.53	+44 49.4	1.988	2.725	16.6	18.6
10 28	4 3.62	+13 12.0	2.465	3.377	7.9	21.6	10 28	4 18.09	+46 50.4	1.895	2.707	14.5	18.4
11 7	3 56.69	+12 57.0	2.404	3.366	4.8	21.4	11 7	4 6.60	+48 35.4	1.823	2.688	12.5	18.2
11 17	3 48.68	+12 43.4	2.372	3.354	2.3	21.2	11 17	3 51.74	+49 54.3	1.775	2.670	11.1	18.1
11 27	3 40.35	+12 33.4	2.370	3.343	3.3	21.2	11 27	3 35.08	+50 39.4	1.753	2.651	10.9	18.0
12 7	3 32.49	+12 28.9	2.398	3.331	6.4	21.4	12 7	3 18.82	+50 49.0	1.756	2.632	12.0	18.1
12 17	3 25.82	+12 31.7	2.454	3.320	9.4	21.6	12 17	3 5.09	+50 28.4	1.785	2.614	14.1	18.1
12 27	3 20.89	+12 42.8	2.534	3.308	12.0	21.7	12 27	2 55.43	+49 47.9	1.834	2.595	16.4	18.3
402758	2007 <i>AT</i> ₈		11 20.8 359°09	4°2/23.2	18		412576	2014 <i>OD</i> ₁₂		11 20.8 186°19	2°0/19.8	18	
10 18	4 11.35	+32 42.1	1.814	2.629	15.1	20.7	10 18	4 10.94	+14 46.4	2.117	2.957	12.3	21.9
10 28	4 6.20	+32 38.9	1.738	2.628	11.9	20.5	10 28	4 5.32	+14 26.9	2.043	2.957	9.1	21.7
11 7	3 58.52	+32 18.7	1.684	2.628	8.3	20.3	11 7	3 57.78	+14 5.7	1.994	2.957	5.5	21.5
11 17	3 49.22	+31 40.4	1.655	2.627	5.0	20.1	11 17	3 49.00	+13 45.2	1.972	2.956	2.3	21.3
11 27	3 39.53	+30 45.6	1.654	2.627	4.5	20.1	11 27	3 39.92	+13 28.0	1.981	2.956	3.6	21.4
12 7	3 30.79	+29 39.9	1.681	2.628	7.4	20.3	12 7	3 31.52	+13 16.7	2.018	2.955	7.1	21.6
12 17	3 24.06	+28 30.1	1.734	2.628	11.0	20.5	12 17	3 24.61	+13 13.7	2.082	2.954	10.6	21.8
12 27	3 20.06	+27 23.6	1.810	2.629	14.3	20.7	12 27	3 19.81	+13 20.2	2.170	2.953	13.5	22.0
76552	2000 <i>GM</i> ₈₈		11 20.8 296°77	1°3/20.1	18		253438	2003 <i>QD</i> ₁₁₁		11 20.8 91°97	3°2/19.7	18	
10 18	4 9.45	+16 8.4	2.233	3.073	11.7	19.0	10 18	4 17.68	+13 3.3	1.385	2.237	16.9	20.0
10 28	4 4.25	+16 2.3	2.149	3.063	8.7	18.8	10 28	4 10.85	+12 47.1	1.336	2.254	12.5	19.7
11 7	3 57.17	+15 54.3	2.089	3.053	5.2	18.6	11 7	4 1.25	+12 31.6	1.308	2.272	7.7	19.5
11 17	3 48.84	+15 45.7	2.057	3.043	1.8	18.3	11 17	3 49.96	+12 19.5	1.306	2.289	3.5	19.3
11 27	3 40.11	+15 38.5	2.055	3.033	3.0	18.4	11 27	3 38.48	+12 14.3	1.332	2.306	5.1	19.5
12 7	3 31.94	+15 34.9	2.082	3.023	6.7	18.6	12 7	3 28.30	+12 18.7	1.384	2.323	9.6	19.8
12 17	3 25.13	+15 37.0	2.136	3.013	10.1	18.8	12 17	3 20.54	+12 34.4	1.461	2.339	13.8	20.1
12 27	3 20.34	+15 46.4	2.214	3.003	13.1	19.0	12 27	3 15.86	+13 1.6	1.559	2.355	17.3	20.3
488013	2015 <i>UU</i> ₂		11 20.8 48°95	1°6/21.5	18		414022	2007 <i>JW</i> ₄₄		11 20.8 44°88	0°5/20.4	18	
10 18	4 12.60	+24 26.9	1.749	2.585	14.6	21.6	10 18	4 9.42	+23 19.7	1.977	2.814	13.2	20.6
10 28	4 6.96	+24 35.0	1.686	2.595	11.0	21.4	10 28	4 4.17	+22 1.5	1.914	2.826	9.7	20.4
11 7	3 58.90	+24 33.7	1.645	2.604	6.9	21.2	11 7	3 57.02	+20 32.4	1.876	2.840	5.7	20.2
11 17	3 49.31	+24 22.8	1.630	2.614	2.7	20.9	11 17	3 48.77	+18 56.6	1.866	2.853	1.6	19.9
11 27	3 39.41	+24 4.1	1.644	2.625	3.0	21.0	11 27	3 40.44	+17 20.0	1.887	2.867	2.9	20.1
12 7	3 30.45	+23 41.0	1.686	2.635	7.2	21.3	12 7	3 33.02	+15 49.5	1.937	2.881	6.9	20.3
12 17	3 23.46	+23 18.2	1.754	2.646	11.1	21.5	12 17	3 27.27	+14 30.5	2.015	2.895	10.5	20.6
12 27	3 19.11	+23 0.1	1.845	2.657	14.4	21.8	12 27	3 23.70	+13 27.1	2.118	2.910	13.5	20.8
132513	2002 <i>JD</i> ₄₅		11 20.8 190°17	1°0/21.3	18		466929	2016 <i>AF</i> ₄₁		11 20.8 342°82	0°1/20.7	17	
10 18	4 13.31	+23 53.4	1.860	2.692	14.1	20.2	10 18	4 9.10	+20 41.5	2.036	2.876	12.7	21.0
10 28	4 7.43	+23 43.7	1.784	2.692	10.6	20.0	10 28	4 4.14	+20 29.3	1.959	2.873	9.4	20.8
11 7	3 59.19	+23 24.5	1.731	2.691	6.5	19.7	11 7	3 57.16	+20 11.0	1.906	2.869	5.7	20.5
11 17	3 49.40	+22 56.3	1.705	2.690	2.2	19.5	11 17	3 48.86	+19 47.7	1.880	2.866	1.6	20.3
11 27	3 39.23	+22 21.4	1.708	2.689	2.8	19.5	11 27	3 40.21	+19 22.0	1.883	2.864	2.6	20.3
12 7	3 29.90	+21 44.1	1.740	2.688	7.1	19.8	12 7	3 32.25	+18 57.1	1.914	2.861	6.7	20.6
12 17	3 22.42	+21 9.1	1.799	2.686	11.1	20.0	12 17	3 25.84	+18 36.5	1.973	2.859	10.3	20.8
12 27	3 17.51	+20 41.1	1.880	2.685	14.5	20.2	12 27	3 21.63	+18 23.2	2.055	2.857	13.5	21.0
388599	2007 <i>RQ</i> ₁₈₃		11 20.8 157°63	11°0/25.6	18		108427	2001 <i>KM</i> ₃₈		11 20.8 80°95	6°1/18.6	18	
10 18	4 30.33	+49 32.6	2.181	2.878	16.3	21.1	10 18	4 14.09	+ 3 17.6	1.833	2.668	14.1	19.4
10 28	4 21.36	+51 26.0	2.108	2.883	14.5	20.9	10 28	4 7.55	+ 2 53.0	1.787	2.689	10.9	19.3
11 7	4 8.33	+52 58.3	2.056	2.888	12.7	20.8	11 7	3 59.02	+ 2 37.4	1.766	2.710	7.9	19.2
11 17	3 52.12	+54 0.4	2.028	2.892	11.4	20.7	11 17	3 49.33	+ 2 34.6	1.770	2.731	6.1	19.1
11 27	3 44.58	+54 26.4	2.025	2.896	11.0	20.7	11 27	3 39.55	+ 2 47.1	1.803	2.752	7.0	19.2
12 7	3 37.94	+54 16.7	2.048	2.899	11.7	20.8	12 7	3 30.74	+ 3 15.5	1.864	2.772	9.6	19.4
12 17	3 4.20	+53 38.2	2.095	2.902	13.1	20.9	12 17	3 23.70	+ 3 58.6	1.950	2.792	12.5	19.6
12 27	2 54.63	+52 41.7	2.164	2.905	14.8	21.0	12 27	3 18.99	+ 4 54.2	2.058	2.812	15.1	19.8
452728	2006 <i>AK</i> ₄₀		11 20.8 74°04	4°9/18.3	18		438						

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
340214	2006 <i>AV</i> ₇₄		11 20.8 175°96	1°9/21.6	18		73419	2002 <i>LQ</i> ₃₆		11 20.8 40°96	2°1/22.2	18	
10 18	4 15.84	+24 54.8	1.899	2.724	14.1	20.6	10 18	4 9.66	+28 22.6	2.135	2.956	12.9	18.5
10 28	4 9.34	+25 9.5	1.823	2.726	10.7	20.4	10 28	4 4.47	+27 59.2	2.062	2.961	9.8	18.3
11 7	4 0.39	+25 15.2	1.771	2.727	6.8	20.1	11 7	3 57.32	+27 23.6	2.014	2.967	6.3	18.1
11 17	3 49.81	+25 11.0	1.745	2.728	2.8	19.9	11 17	3 48.94	+26 36.4	1.993	2.974	2.9	17.9
11 27	3 38.77	+24 57.7	1.749	2.728	3.1	19.9	11 27	3 40.35	+25 40.3	2.000	2.980	2.8	17.9
12 7	3 28.57	+24 38.4	1.781	2.728	7.1	20.2	12 7	3 32.55	+24 40.2	2.038	2.986	6.2	18.1
12 17	3 20.27	+24 17.5	1.841	2.728	10.9	20.4	12 17	3 26.37	+23 41.1	2.102	2.993	9.6	18.3
12 27	3 14.61	+23 59.7	1.925	2.727	14.3	20.6	12 27	3 22.40	+22 48.2	2.192	3.000	12.5	18.5
174338	2002 <i>TO</i> ₁₈₀		11 20.8 37°08	7°2/24.9	18		368459	2003 <i>SG</i> ₇₉		11 20.8 57°78	1°5/20.1	16	
10 18	4 14.60	+38 29.2	1.461	2.265	18.6	19.4	10 18	4 15.62	+20 18.6	1.135	1.998	19.0	20.5
10 28	4 9.11	+38 47.8	1.407	2.282	15.1	19.2	10 28	4 9.65	+19 20.7	1.097	2.022	13.9	20.3
11 7	4 0.43	+38 41.6	1.373	2.299	11.4	19.0	11 7	4 0.61	+18 13.2	1.079	2.047	8.2	20.1
11 17	3 49.79	+38 7.6	1.362	2.317	8.2	18.9	11 17	3 49.83	+17 1.2	1.085	2.072	2.5	19.8
11 27	3 38.93	+37 7.3	1.376	2.336	7.3	18.9	11 27	3 39.08	+15 52.5	1.117	2.097	4.4	20.0
12 7	3 29.56	+35 47.7	1.416	2.355	9.3	19.0	12 7	3 30.00	+14 55.0	1.174	2.122	9.8	20.4
12 17	3 22.91	+34 19.3	1.481	2.375	12.5	19.3	12 17	3 23.69	+14 14.0	1.255	2.147	14.5	20.8
12 27	3 19.65	+32 52.4	1.568	2.396	15.7	19.5	12 27	3 20.72	+13 51.9	1.356	2.172	18.4	21.1
389026	2008 <i>UP</i> ₃₁₆		11 20.8 74°08	1°3/20.2	18		511730	2015 <i>DB</i> ₃₃		11 20.8 62°78	0°8/21.1	18	
10 18	4 13.56	+18 20.3	1.589	2.437	15.3	20.7	10 18	4 17.67	+21 28.5	1.265	2.117	18.2	20.7
10 28	4 7.62	+17 53.3	1.535	2.453	11.2	20.5	10 28	4 11.27	+21 43.0	1.217	2.135	13.5	20.5
11 7	3 59.27	+17 20.9	1.504	2.469	6.7	20.3	11 7	4 1.71	+21 49.1	1.189	2.153	8.2	20.2
11 17	3 49.45	+16 45.7	1.499	2.486	2.1	20.0	11 17	3 50.20	+21 46.6	1.186	2.172	2.5	19.9
11 27	3 39.46	+16 11.7	1.523	2.502	3.6	20.1	11 27	3 38.43	+21 37.4	1.209	2.191	3.5	20.1
12 7	3 30.57	+15 43.4	1.574	2.518	8.1	20.5	12 7	3 28.10	+21 25.7	1.259	2.210	8.8	20.4
12 17	3 23.75	+15 24.3	1.650	2.534	12.2	20.7	12 17	3 20.50	+21 16.5	1.333	2.229	13.6	20.7
12 27	3 19.64	+15 16.7	1.749	2.550	15.5	21.0	12 27	3 16.31	+21 14.1	1.427	2.248	17.4	21.0
448822	2011 <i>UJ</i> ₂₉		11 20.8 35°14	2°7/21.9	17		242013	2002 <i>PJ</i> ₁₁₆		11 20.8 34°97	1°0/20.3	16	
10 18	4 13.06	+26 42.7	1.588	2.424	15.9	21.0	10 18	4 10.90	+23 8.1	1.223	2.085	18.0	18.9
10 28	4 7.60	+26 58.1	1.525	2.433	12.1	20.8	10 28	4 6.00	+21 42.6	1.185	2.110	13.2	18.7
11 7	3 59.44	+27 1.6	1.485	2.441	7.8	20.6	11 7	3 58.35	+20 4.0	1.168	2.136	7.7	18.4
11 17	3 49.55	+26 52.1	1.469	2.450	3.7	20.3	11 17	3 49.20	+18 18.8	1.175	2.162	2.1	18.2
11 27	3 39.28	+26 30.9	1.481	2.460	3.7	20.4	11 27	3 40.12	+16 36.8	1.209	2.190	3.9	18.4
12 7	3 30.07	+26 2.3	1.520	2.470	7.7	20.6	12 7	3 32.53	+15 7.1	1.270	2.218	9.1	18.8
12 17	3 23.04	+25 31.9	1.584	2.480	11.8	20.9	12 17	3 27.39	+13 56.6	1.354	2.247	13.6	19.1
12 27	3 18.94	+25 5.2	1.671	2.491	15.3	21.1	12 27	3 25.22	+13 8.3	1.459	2.277	17.3	19.4
337243	2000 <i>NC</i> ₇		11 20.8 64°26	1°3/20.2	18		129340	2005 <i>UR</i> ₁₁₉		11 20.8 219°98	2°9/22.1	17	
10 18	4 14.40	+18 48.0	1.427	2.280	16.4	20.6	10 18	4 14.07	+27 53.6	2.269	3.080	12.6	20.6
10 28	4 8.36	+18 13.7	1.382	2.302	12.1	20.4	10 28	4 7.85	+28 23.1	2.184	3.076	9.7	20.4
11 7	3 59.72	+17 33.2	1.358	2.324	7.1	20.2	11 7	3 59.47	+28 43.6	2.124	3.072	6.5	20.2
11 17	3 49.58	+16 49.6	1.360	2.346	2.2	20.0	11 17	3 49.60	+28 53.3	2.091	3.067	3.5	20.0
11 27	3 39.35	+16 7.8	1.389	2.368	3.8	20.1	11 27	3 39.25	+28 52.2	2.088	3.063	3.4	20.0
12 7	3 30.41	+15 33.0	1.445	2.390	8.6	20.5	12 7	3 29.53	+28 42.2	2.114	3.058	6.4	20.1
12 17	3 23.77	+15 9.2	1.526	2.413	12.8	20.8	12 17	3 21.38	+28 26.7	2.169	3.053	9.6	20.3
12 27	3 20.02	+14 58.6	1.629	2.435	16.3	21.1	12 27	3 15.53	+28 10.4	2.248	3.047	12.6	20.5
510233	2011 <i>EJ</i> ₇₈		11 20.8 185°40	1°1/21.4	18		267254	2001 <i>QR</i> ₁₃		11 20.8 101°32	2°6/19.7	18	
10 18	4 15.43	+24 17.7	1.926	2.752	13.9	22.6	10 18	4 16.17	+14 42.9	1.713	2.555	14.6	20.9
10 28	4 8.96	+24 6.4	1.847	2.752	10.5	22.4	10 28	4 9.27	+14 9.5	1.664	2.579	10.8	20.7
11 7	4 0.12	+23 45.3	1.793	2.752	6.5	22.2	11 7	4 0.14	+13 34.3	1.639	2.602	6.5	20.5
11 17	3 49.74	+23 14.6	1.766	2.751	2.3	21.9	11 17	3 49.72	+13 0.6	1.641	2.624	2.9	20.4
11 27	3 38.98	+22 36.7	1.768	2.749	2.8	21.9	11 27	3 39.23	+12 32.1	1.672	2.646	4.3	20.5
12 7	3 29.06	+21 55.9	1.800	2.747	7.0	22.2	12 7	3 29.84	+12 12.5	1.732	2.668	8.2	20.8
12 17	3 21.00	+21 17.2	1.859	2.744	10.9	22.4	12 17	3 22.46	+12 4.1	1.818	2.688	11.9	21.1
12 27	3 15.51	+20 45.2	1.942	2.741	14.3	22.6	12 27	3 17.65	+12 7.9	1.926	2.708	15.0	21.3
362681	2011 <i>UW</i> ₈₇		11 20.8 278°79	0°7/20.4	18		108575	2001 <i>MS</i> ₅		11 20.8 232°39	7°0/16.9	18	
10 18	4 10.60	+19 48.4	1.908	2.750	13.4	21.3	10 18	4 10.72	+ 1 16.7	2.066	2.898	12.9	20.1
10 28	4 5.41	+19 21.1	1.826	2.741	9.9	21.0	10 28	4 5.21	+ 0 18.3	1.995	2.890	10.3	20.0
11 7	3 58.02	+18 47.0	1.768	2.732	5.9	20.8	11 7	3 57.79	- 0 32.5	1.947	2.881	8.0	19.8
11 17	3 49.17	+18 8.0	1.737	2.724	1.7	20.5	11 17	3 49.12	- 1 10.3	1.926	2.873	7.0	19.7
11 27	3 39.91	+17 27.6	1.735	2.715	3.0	20.6	11 27	3 40.11	- 1 30.4	1.933	2.863	8.0	19.8
12 7	3 31.35	+16 50.1	1.762	2.706	7.3	20.8	12 7	3 31.74	- 1 30.4	1.967	2.854	10.4	19.9
12 17	3 24.47	+16 19.6	1.815	2.698	11.3	21.0	12 17	3 24.82	- 1 10.3	2.026	2.844	13.1	20.1
12 27	3 19.96	+15 59.4	1.891	2.689	14.6	21.3	12 27	3 19.98	- 0 31.8	2.105	2.834	15.5	20.2
376974	2002 <i>NF</i> ₅		11 20.8 132°29	1°5/21.5	17		213147	2000 <i>JT</i> ₁₁		11 20.8 157°05	1°2/21.6	18	
10 18	4 17.11	+25 31.4	1.700	2.528	15.4	21.7	10 18	4 12.16	+26 25.6	2.216	3.035	12.5	20.4
10 28	4 10.30	+25 15.1	1.636	2.540	11.6	21.5	10 28	4 6.20	+25 47.6	2.139	3.040	9.4	20.2
11 7	4 0.92	+24 46.6	1.594	2.552	7.2	21.3	11 7	3 58.32	+24 58.1	2.088	3.044	5.9	20.0
11 17	3 49.95	+24 6.6	1.579	2.564	2.7	21.0	11 17	3 49.25	+23 58.5	2.064	3.048	2.2	19.7
11 27	3 38.73	+23 18.2	1.594	2.574	3.0	21.1	11 27	3 39.98	+22 52.2	2.071	3.052	2.4	19.8
12 7	3 28.64	+22 26.7	1.637	2.585	7.5	21.4	12 7	3 31.50	+21 44.2	2.109	3.056	6.1	20.0
12 17	3 20.72	+21 38.4	1.706	2.594	11.6	21.6	12 17	3 24.63	+20 39.9	2.174	3.059	9.6	20.2
12 27	3 15.66	+20 58.5	1.799	2.603	15.0	21.9	12 27	3 19.93	+19 43.8	2.265	3.061	12.6	20.5
511364	2014 <i>FU</i> ₃₆		11 20.8 195°46	1°3/21.5	18		97470	200					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
444637	2006 WZ ₁₅₅		11 20.8 74°09'	0°1'/20.7 18			407071	2009 SK ₁₉₂		11 20.8 113°20'	0°5'/21.2 18		
10 18	4 12.54	+19 55.6	1.875	2.715	13.7	21.0	10 18	4 10.82	+23 0.9	2.356	3.182	11.7	21.7
10 28	4 6.74	+19 52.6	1.811	2.724	10.1	20.8	10 28	4 5.10	+22 44.5	2.288	3.194	8.7	21.5
11 7	3 58.76	+19 44.3	1.771	2.734	6.0	20.6	11 7	3 57.64	+22 20.9	2.245	3.205	5.3	21.3
11 17	3 49.40	+19 31.5	1.758	2.744	1.7	20.3	11 17	3 49.10	+21 51.2	2.230	3.216	1.6	21.1
11 27	3 39.77	+19 16.4	1.773	2.754	2.8	20.4	11 27	3 40.38	+21 17.6	2.246	3.227	2.2	21.2
12 7	3 31.00	+19 2.1	1.818	2.764	7.0	20.7	12 7	3 32.37	+20 43.4	2.291	3.238	5.8	21.4
12 17	3 24.00	+18 51.7	1.889	2.774	10.8	21.0	12 17	3 25.79	+20 12.0	2.365	3.248	9.0	21.6
12 27	3 19.43	+18 48.0	1.983	2.784	13.9	21.2	12 27	3 21.21	+19 46.7	2.463	3.258	11.7	21.8
284901	2009 UD ₁₄₇		11 20.8 330°10'	0°3'/20.7 17			246823	2009 TO ₃₅		11 20.8 230°70'	0°1'/20.9 18		
10 18	4 8.65	+20 19.4	1.891	2.737	13.3	21.0	10 18	4 11.30	+20 5.3	2.354	3.184	11.6	19.9
10 28	4 4.06	+20 5.2	1.809	2.726	9.9	20.8	10 28	4 5.60	+20 13.7	2.273	3.181	8.6	19.7
11 7	3 57.28	+19 44.6	1.750	2.715	6.0	20.6	11 7	3 58.05	+20 18.0	2.216	3.178	5.2	19.5
11 17	3 49.03	+19 19.1	1.718	2.705	1.7	20.2	11 17	3 49.26	+20 18.4	2.188	3.175	1.5	19.2
11 27	3 40.33	+18 51.2	1.714	2.695	2.8	20.3	11 27	3 40.11	+20 16.1	2.191	3.172	2.3	19.3
12 7	3 32.30	+18 24.8	1.738	2.686	7.1	20.6	12 7	3 31.53	+20 13.1	2.223	3.168	6.0	19.5
12 17	3 25.89	+18 3.4	1.788	2.677	11.1	20.8	12 17	3 24.33	+20 11.5	2.283	3.165	9.3	19.7
12 27	3 21.83	+17 50.4	1.861	2.669	14.5	21.0	12 27	3 19.13	+20 14.0	2.368	3.161	12.2	19.9
515981	2015 RV ₁₉₁		11 20.8 61°55'	2°8'/19.5 18			398006	2009 BO ₁₈₇		11 20.8 318°27'	4°9'/19.1 18		
10 18	4 11.01	+14 2.8	1.772	2.621	13.9	21.0	10 18	4 11.28	+ 9 5.0	1.522	2.378	15.4	20.5
10 28	4 5.60	+13 28.8	1.713	2.632	10.3	20.8	10 28	4 6.39	+ 8 39.6	1.446	2.365	11.7	20.3
11 7	3 58.06	+12 53.5	1.679	2.642	6.3	20.6	11 7	3 58.89	+ 8 18.0	1.392	2.351	7.8	20.0
11 17	3 49.21	+12 20.4	1.670	2.653	3.0	20.4	11 17	3 49.57	+ 8 4.5	1.362	2.339	5.0	19.8
11 27	3 40.14	+11 53.1	1.691	2.664	4.4	20.6	11 27	3 39.65	+ 8 3.2	1.360	2.326	6.4	19.9
12 7	3 31.96	+11 35.2	1.739	2.675	8.2	20.8	12 7	3 30.51	+ 8 16.9	1.383	2.315	10.3	20.1
12 17	3 25.55	+11 28.9	1.812	2.686	11.8	21.1	12 17	3 23.30	+ 8 46.6	1.431	2.303	14.4	20.3
12 27	3 21.52	+11 35.2	1.908	2.697	14.9	21.3	12 27	3 18.87	+ 9 31.5	1.499	2.293	18.0	20.5
305077	2007 UC ₁₀₉		11 20.8 270°38'	0°2'/20.9 18			324805	2007 HH ₄₉		11 20.8 163°66'	1°9'/19.7 18		
10 18	4 12.59	+21 10.1	1.892	2.729	13.7	21.5	10 18	4 9.32	+14 33.3	2.523	3.358	10.7	21.3
10 28	4 7.06	+21 6.1	1.804	2.716	10.2	21.2	10 28	4 3.90	+14 9.3	2.449	3.361	7.9	21.1
11 7	3 59.14	+20 55.4	1.739	2.702	6.2	20.9	11 7	3 56.91	+13 43.9	2.402	3.363	4.8	20.9
11 17	3 49.58	+20 38.6	1.702	2.688	1.8	20.6	11 17	3 48.93	+13 19.2	2.383	3.366	2.1	20.8
11 27	3 39.46	+20 17.5	1.693	2.674	2.8	20.7	11 27	3 40.73	+12 57.7	2.394	3.368	3.2	20.9
12 7	3 30.00	+19 55.6	1.713	2.660	7.3	20.9	12 7	3 33.09	+12 41.8	2.435	3.370	6.2	21.1
12 17	3 22.26	+19 36.8	1.759	2.646	11.4	21.1	12 17	3 26.69	+12 33.3	2.505	3.371	9.2	21.2
12 27	3 17.03	+19 24.8	1.829	2.632	14.9	21.3	12 27	3 22.05	+12 33.7	2.598	3.373	11.7	21.4
62351	2000 SB ₁₄₃		11 20.8 29°36'	1°6'/21.4 18			101322	1998 SA ₁₅₅		11 20.8 51°94'	0°9'/20.4 18		
10 18	4 13.50	+24 37.7	1.091	1.954	19.6	18.6	10 18	4 13.01	+19 53.5	1.475	2.327	16.0	18.9
10 28	4 8.75	+24 30.0	1.038	1.961	14.8	18.4	10 28	4 7.33	+19 20.3	1.430	2.350	11.8	18.7
11 7	4 0.49	+24 7.6	1.004	1.969	9.2	18.1	11 7	3 59.16	+18 40.1	1.407	2.373	7.0	18.5
11 17	3 49.96	+23 31.2	0.992	1.978	3.3	17.8	11 17	3 49.55	+17 55.8	1.410	2.396	2.0	18.3
11 27	3 39.02	+22 45.1	1.006	1.988	3.9	17.9	11 27	3 39.87	+17 12.0	1.440	2.420	3.5	18.4
12 7	3 29.59	+21 56.7	1.043	1.998	9.6	18.2	12 7	3 31.41	+16 33.9	1.497	2.444	8.1	18.8
12 17	3 23.07	+21 14.1	1.103	2.009	14.8	18.6	12 17	3 25.14	+16 5.8	1.580	2.468	12.3	19.1
12 27	3 20.25	+20 43.4	1.183	2.021	19.1	18.9	12 27	3 21.65	+15 50.3	1.684	2.493	15.7	19.4
25354	Zdasiuk		11 20.8 259°76'	2°3'/21.9 18			385714	2005 UR ₁₀₃		11 20.8 311°97'	1°4'/20.3 18		
10 18	4 14.83	+27 2.9	1.532	2.367	16.4	18.5	10 18	4 12.02	+17 57.2	1.407	2.265	16.3	20.8
10 28	4 9.25	+26 50.6	1.450	2.357	12.6	18.2	10 28	4 7.26	+17 41.3	1.329	2.252	12.2	20.5
11 7	4 0.68	+26 23.5	1.390	2.347	8.1	17.9	11 7	3 59.56	+17 19.8	1.271	2.238	7.4	20.2
11 17	3 50.04	+25 40.9	1.355	2.337	3.5	17.6	11 17	3 49.79	+16 54.8	1.239	2.225	2.3	19.9
11 27	3 38.78	+24 45.6	1.347	2.327	3.6	17.6	11 27	3 39.32	+16 30.1	1.233	2.213	4.0	19.9
12 7	3 28.49	+23 43.8	1.366	2.317	8.3	17.9	12 7	3 29.71	+16 10.1	1.253	2.201	9.3	20.2
12 17	3 20.50	+22 43.3	1.411	2.307	13.0	18.1	12 17	3 22.29	+15 59.3	1.297	2.189	14.2	20.5
12 27	3 15.67	+21 51.2	1.478	2.296	17.0	18.4	12 27	3 18.00	+16 0.9	1.362	2.178	18.3	20.7
175079	2004 GC ₅₉		11 20.8 143°13'	1°4'/20.0 18			13690	Lesleymartin		11 20.8 145°66'	4°9'/24.8 18		
10 18	4 11.14	+17 7.8	2.307	3.141	11.6	21.2	10 18	4 13.35	+39 13.3	2.796	3.555	11.7	18.8
10 28	4 5.32	+16 39.3	2.238	3.149	8.5	21.0	10 28	4 7.01	+39 19.7	2.718	3.563	9.6	18.7
11 7	3 57.76	+16 7.3	2.194	3.157	5.1	20.8	11 7	3 58.81	+39 10.9	2.662	3.571	7.4	18.5
11 17	3 49.13	+15 33.9	2.179	3.165	1.8	20.6	11 17	3 49.47	+38 45.5	2.634	3.578	5.5	18.4
11 27	3 40.31	+15 2.0	2.195	3.172	3.0	20.7	11 27	3 39.91	+38 3.9	2.635	3.585	5.0	18.4
12 7	3 32.16	+14 34.7	2.240	3.179	6.4	21.0	12 7	3 31.09	+37 9.3	2.665	3.591	6.2	18.5
12 17	3 25.44	+14 14.6	2.313	3.185	9.6	21.2	12 17	3 23.80	+36 6.3	2.724	3.597	8.3	18.6
12 27	3 20.68	+14 3.8	2.410	3.191	12.4	21.4	12 27	3 18.59	+35 0.6	2.808	3.603	10.4	18.8
209168	2003 UA ₉₇		11 20.8 359°58'	2°2'/21.7 18			84719	2002 VR ₁₂₈		11 20.8 79°62'	0°2'/22.8 17		
10 18	4 11.96	+25 21.5	1.296	2.152	17.6	19.7	10 18	3 48.86	+29 2.7	39.515	40.310	0.9	21.1
10 28	4 5.89	+25 26.2	1.230	2.149	13.3	19.5	10 28	3 48.03	+29 1.9	39.435	40.317	0.7	21.0
11 7	3 58.74	+25 17.9	1.185	2.147	8.5	19.2	11 7	3 47.12	+29 0.4	39.383	40.324	0.4	21.0
11 17	3 49.50	+24 56.2	1.162	2.146	3.5	18.9	11 17	3 46.16	+28 58.5	39.359	40.331	0.3	21.0
11 27	3 39.70	+24 23.7	1.165	2.147	3.7	18.9	11 27	3 45.19	+28 56.0	39.366	40.338	0.2	21.0
12 7	3 31.01	+23 45.7	1.194	2.148	8.7	19.2	12 7	3 44.24	+28 53.2	39.403	40.345	0.4	21.0
12 17	3 24.76	+23 9.2	1.246	2.151	13.5	19.5	12 17	3 43.36	+28 50.1	39.470	40.353	0.6	21.0
12 27	3 21.80	+22 40.2	1.318	2.155	17.7	19.8	12 27	3 42.56	+28 46.9	39.564	40.360	0.8	21.1
296965	2010 EF ₇₄		11 20.8 127°38'	6°2'/17.3 18			124762	2001 SE ₂₃₃		11 20.8 244°83'	0°6'/20.6 18		
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EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
183160	2002 <i>SO</i> ₁₂	11 20.8 108°60 0°4/21.0 18					460410	2014 <i>SY</i> ₁₁₈	11 20.8 17°39 0°2/20.9 16				
10 18	4 16.85	+21 39.0	1.566	2.406	15.9	20.6	10 18	4 9.31	+21 22.7	1.776	2.621	14.0	21.0
10 28	4 10.30	+21 35.0	1.506	2.419	11.8	20.4	10 28	4 4.55	+21 15.2	1.711	2.627	10.4	20.8
11 7	4 1.06	+21 22.9	1.469	2.431	7.1	20.2	11 7	3 57.57	+21 0.6	1.669	2.633	6.3	20.6
11 17	3 50.13	+21 3.3	1.457	2.444	2.1	19.9	11 17	3 49.17	+20 40.2	1.653	2.640	1.8	20.3
11 27	3 38.91	+20 38.8	1.474	2.455	3.1	20.0	11 27	3 40.47	+20 16.5	1.666	2.647	2.7	20.4
12 7	3 28.82	+20 13.6	1.519	2.467	7.9	20.3	12 7	3 32.61	+19 53.1	1.706	2.655	7.1	20.7
12 17	3 20.98	+19 52.5	1.590	2.478	12.2	20.6	12 17	3 26.52	+19 33.9	1.772	2.664	11.0	21.0
12 27	3 16.09	+19 39.4	1.683	2.489	15.8	20.9	12 27	3 22.88	+19 22.0	1.861	2.673	14.3	21.2
72455	2001 <i>DX</i> ₁₀	11 20.8 155°27 1°9/21.8 18					140086	2001 <i>SD</i> ₁₂₂	11 20.8 13°49 0°5/21.1 18				
10 18	4 14.07	+26 2.9	1.914	2.739	14.0	19.9	10 18	4 10.81	+22 58.8	1.746	2.587	14.4	19.9
10 28	4 8.04	+26 4.0	1.840	2.742	10.6	19.7	10 28	4 5.74	+22 36.1	1.675	2.589	10.8	19.7
11 7	3 59.66	+25 54.5	1.789	2.745	6.8	19.5	11 7	3 58.34	+22 3.8	1.627	2.590	6.5	19.4
11 17	3 49.75	+25 34.2	1.765	2.747	2.9	19.2	11 17	3 49.42	+21 23.4	1.606	2.592	2.0	19.1
11 27	3 39.47	+25 4.6	1.770	2.750	3.0	19.2	11 27	3 40.17	+20 38.3	1.612	2.594	2.8	19.2
12 7	3 30.04	+24 29.8	1.804	2.752	6.9	19.5	12 7	3 31.79	+19 53.3	1.647	2.596	7.3	19.5
12 17	3 22.46	+23 54.5	1.865	2.754	10.7	19.7	12 17	3 25.27	+19 13.6	1.708	2.599	11.4	19.7
12 27	3 17.44	+23 23.7	1.949	2.756	14.0	19.9	12 27	3 21.31	+18 43.4	1.791	2.602	14.8	20.0
492614	2014 <i>OL</i> ₂₂₉	11 20.8 56°86 9°9/14.1 18					507503	2012 <i>UZ</i> ₁₅₇	11 20.8 53°60 17°6/10.8 17				
10 18	4 7.75	- 6 58.2	2.062	2.878	13.4	20.6	10 18	4 12.42	- 5 26.7	0.924	1.789	22.2	20.5
10 28	4 2.86	- 8 41.7	2.026	2.893	11.5	20.5	10 28	4 7.77	- 9 15.5	0.901	1.797	19.4	20.3
11 7	3 56.29	-10 10.0	2.015	2.908	10.2	20.5	11 7	3 59.79	-12 36.4	0.897	1.807	17.7	20.3
11 17	3 48.75	-11 16.3	2.028	2.923	9.9	20.5	11 17	3 49.82	-15 8.9	0.913	1.817	17.9	20.3
11 27	3 41.11	-11 55.8	2.067	2.938	10.8	20.6	11 27	3 39.70	-16 39.8	0.949	1.827	19.7	20.5
12 7	3 34.21	-12 7.2	2.130	2.954	12.4	20.7	12 7	3 31.19	-17 7.9	1.001	1.837	22.2	20.7
12 17	3 28.75	-11 52.0	2.214	2.969	14.1	20.9	12 17	3 25.51	-16 40.6	1.069	1.848	24.7	20.9
12 27	3 25.23	-11 13.9	2.317	2.985	15.8	21.1	12 27	3 23.33	-15 29.8	1.147	1.859	26.9	21.2
72908	2001 <i>MC</i> ₁₁	11 20.8 326°92 4°4/23.5 18					517236	2014 <i>CR</i> ₂₄	11 20.8 276°92 0°5/20.6 18				
10 18	4 10.23	+33 48.2	2.070	2.875	13.8	18.4	10 18	4 12.73	+20 24.2	1.641	2.487	15.0	21.6
10 28	4 5.33	+33 55.0	1.982	2.864	11.0	18.2	10 28	4 7.46	+19 59.8	1.557	2.474	11.2	21.3
11 7	3 58.12	+33 46.4	1.917	2.854	7.9	18.0	11 7	3 59.56	+19 27.1	1.495	2.460	6.8	21.0
11 17	3 49.34	+33 20.7	1.877	2.844	5.2	17.8	11 17	3 49.82	+18 47.8	1.459	2.446	1.9	20.7
11 27	3 40.10	+32 38.7	1.865	2.834	4.7	17.7	11 27	3 39.49	+18 5.6	1.452	2.432	3.3	20.8
12 7	3 31.59	+31 44.2	1.882	2.825	7.1	17.8	12 7	3 29.94	+17 25.6	1.471	2.418	8.3	21.0
12 17	3 24.82	+30 42.9	1.925	2.816	10.3	18.0	12 17	3 22.35	+16 52.8	1.517	2.404	12.8	21.3
12 27	3 20.54	+29 41.7	1.992	2.808	13.3	18.2	12 27	3 17.55	+16 31.6	1.584	2.391	16.6	21.5
454609	2014 <i>QV</i> ₃₀	11 20.8 9°17 4°9/18.8 18					298106	2002 <i>RR</i> ₁₃₃	11 20.8 25°97 3°5/19.9 18				
10 18	4 10.08	+ 6 9.6	1.955	2.798	13.0	20.6	10 18	4 11.89	+12 7.7	1.232	2.100	17.5	19.2
10 28	4 4.83	+ 5 51.3	1.890	2.799	10.0	20.4	10 28	4 6.94	+12 3.2	1.188	2.115	13.0	19.0
11 7	3 57.62	+ 5 38.9	1.848	2.801	6.9	20.2	11 7	3 59.17	+12 1.5	1.165	2.131	8.0	18.7
11 17	3 49.17	+ 5 35.9	1.833	2.803	5.0	20.1	11 17	3 49.66	+12 5.2	1.165	2.148	3.8	18.5
11 27	3 40.42	+ 5 45.0	1.847	2.805	6.0	20.1	11 27	3 39.91	+12 17.2	1.191	2.167	5.3	18.7
12 7	3 32.38	+ 6 7.3	1.887	2.807	8.8	20.3	12 7	3 31.44	+12 39.2	1.242	2.186	9.8	19.0
12 17	3 25.87	+ 6 42.8	1.954	2.810	11.9	20.5	12 17	3 25.35	+13 11.7	1.317	2.207	14.2	19.3
12 27	3 21.52	+ 7 30.4	2.043	2.813	14.7	20.7	12 27	3 22.34	+13 54.3	1.412	2.228	17.8	19.6
198952	2005 <i>UR</i> ₃₄₆	11 20.8 218°85 0°1/20.9 18					11319	1995 <i>AZ</i>	11 20.9 189°52 0°2/20.9 18				
10 18	4 14.12	+22 4.3	1.856	2.690	14.0	21.4	10 18	4 14.42	+21 45.5	1.902	2.735	13.8	18.9
10 28	4 8.14	+21 40.8	1.774	2.684	10.5	21.2	10 28	4 8.28	+21 28.9	1.825	2.734	10.3	18.6
11 7	3 59.77	+21 8.4	1.715	2.677	6.4	20.9	11 7	3 59.82	+21 4.5	1.771	2.733	6.2	18.4
11 17	3 49.81	+20 28.3	1.683	2.670	1.8	20.6	11 17	3 49.86	+20 33.2	1.745	2.731	1.8	18.1
11 27	3 39.40	+19 43.7	1.681	2.662	2.9	20.7	11 27	3 39.51	+19 57.8	1.748	2.729	2.8	18.2
12 7	3 29.77	+18 59.3	1.707	2.654	7.4	20.9	12 7	3 29.97	+19 22.4	1.781	2.727	7.1	18.5
12 17	3 21.98	+18 20.0	1.761	2.645	11.5	21.1	12 17	3 22.23	+18 51.3	1.840	2.724	11.1	18.7
12 27	3 16.76	+17 50.2	1.838	2.636	15.0	21.4	12 27	3 17.00	+18 28.5	1.923	2.721	14.4	18.9
397164	2005 <i>YQ</i> ₃₀	11 20.8 325°53 25°5/16.2 17					251633	2010 <i>KP</i> ₄₅	11 20.9 80°35 2°6/22.2 18				
10 18	4 19.24	-26 25.1	0.943	1.726	28.0	19.8	10 18	4 13.30	+27 53.0	1.903	2.726	14.2	20.8
10 28	4 13.50	-27 55.6	0.904	1.714	26.7	19.7	10 28	4 7.47	+27 56.4	1.835	2.734	10.8	20.6
11 7	4 3.63	-28 35.4	0.875	1.703	25.8	19.5	11 7	3 59.33	+27 47.8	1.790	2.743	7.1	20.4
11 17	3 50.95	-28 8.1	0.859	1.693	25.5	19.5	11 17	3 49.71	+27 26.7	1.772	2.752	3.4	20.2
11 27	3 37.65	-26 24.3	0.857	1.683	25.9	19.5	11 27	3 39.78	+26 54.9	1.782	2.760	3.3	20.2
12 7	3 25.98	-23 27.7	0.869	1.675	27.2	19.5	12 7	3 30.75	+26 16.3	1.821	2.769	6.8	20.4
12 17	3 17.65	-19 31.9	0.895	1.667	28.9	19.6	12 17	3 23.61	+25 36.3	1.886	2.777	10.5	20.7
12 27	3 13.58	-14 56.3	0.936	1.661	30.9	19.8	12 27	3 19.02	+24 59.9	1.976	2.786	13.6	20.9
389073	2008 <i>WG</i> ₈₇	11 20.8 5°86 1°2/20.4 18					446014	2013 <i>CN</i> ₅₁	11 20.9 164°70 7°2/16.7 18				
10 18	4 13.78	+17 8.5	1.631	2.478	15.0	20.9	10 18	4 10.46	- 1 6.0	2.237	3.061	12.3	21.2
10 28	4 8.06	+17 5.0	1.561	2.478	11.1	20.6	10 28	4 4.84	- 2 5.8	2.178	3.064	10.0	21.1
11 7	3 59.79	+16 58.3	1.513	2.478	6.7	20.4	11 7	3 57.53	- 2 56.2	2.144	3.068	8.0	21.0
11 17	3 49.82	+16 49.7	1.492	2.478	2.1	20.1	11 17	3 49.18	- 3 32.2	2.136	3.070	7.2	20.9
11 27	3 39.40	+16 41.7	1.499	2.478	3.5	20.2	11 27	3 40.62	- 3 49.8	2.156	3.073	8.1	21.0
12 7	3 29.87	+16 37.2	1.533	2.479	8.2	20.5	12 7	3 32.71	- 3 47.3	2.203	3.075	10.1	21.1
12 17	3 22.33	+16 39.2	1.594	2.479	12.4	20.7	12 17	3 26.18	- 3 25.3	2.274	3.077	12.4	21.3
12 27	3 17.54	+16 49.8	1.676	2.479	16.0	21.0	12 27	3 21.55	- 2 45.6	2.367	3.078	14.5	21.4
267174	2000 <i>KW</i> ₇₀	11 20.8 123°70 0°6/20.6 18					385492	2004 <i>CU</i> ₃₉	11 20.9 206°93 17°5/28.3 17				
10 18	4 16.30	+18 19.0	1.698	2.538	14.8	20.5	10 18	4 34.49	+53 45.9	1.263	1.988	24.9	21.5
10 28	4 9.75	+18 22.7	1.633										

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
283802	2003 <i>SX</i> ₁₀₁	11 20.9	352°13	0°5/21.2	17		300461	2007 <i>TH</i> ₈₆	11 20.9	54°81	5°9/23.0	18	
10 18	4 8.57	+24 19.2	1.957	2.794	13.3	20.0	10 18	4 21.61	+32 3.1	1.491	2.305	17.8	19.7
10 28	4 3.91	+23 40.2	1.880	2.791	9.9	19.7	10 28	4 14.19	+33 12.3	1.448	2.334	14.0	19.5
11 7	3 57.17	+22 50.4	1.827	2.789	6.1	19.5	11 7	4 3.56	+34 4.4	1.426	2.364	10.0	19.4
11 17	3 49.11	+21 51.6	1.801	2.787	1.9	19.2	11 17	3 50.94	+34 34.5	1.428	2.393	6.7	19.3
11 27	3 40.76	+20 47.9	1.803	2.785	2.6	19.3	11 27	3 38.04	+34 41.2	1.458	2.423	6.2	19.3
12 7	3 33.17	+19 44.4	1.835	2.784	6.7	19.5	12 7	3 26.62	+34 28.6	1.514	2.453	8.9	19.6
12 17	3 27.21	+18 46.6	1.893	2.783	10.5	19.8	12 17	3 17.96	+34 3.8	1.596	2.483	12.3	19.8
12 27	3 23.53	+17 59.0	1.975	2.782	13.8	20.0	12 27	3 12.80	+33 35.0	1.700	2.513	15.4	20.1
353867	2012 <i>WE</i> ₃	11 20.9	274°19	0°8/20.5	18		75895	2000 <i>CD</i> ₄₄	11 20.9	248°15	2°6/19.5	18	
10 18	4 13.33	+18 17.6	1.701	2.546	14.6	21.0	10 18	4 10.85	+15 10.9	1.888	2.734	13.3	19.3
10 28	4 7.75	+18 11.1	1.624	2.541	10.9	20.8	10 28	4 5.59	+14 27.0	1.812	2.729	9.9	19.1
11 7	3 59.65	+18 0.1	1.570	2.535	6.5	20.5	11 7	3 58.21	+13 39.8	1.761	2.725	6.1	18.9
11 17	3 49.85	+17 45.9	1.543	2.529	1.9	20.2	11 17	3 49.44	+12 52.7	1.737	2.720	2.8	18.7
11 27	3 39.55	+17 30.8	1.544	2.524	3.3	20.3	11 27	3 40.32	+12 9.9	1.742	2.716	4.2	18.8
12 7	3 30.05	+17 18.4	1.572	2.518	7.9	20.5	12 7	3 31.94	+11 35.9	1.776	2.711	8.0	19.0
12 17	3 22.44	+17 11.9	1.627	2.512	12.2	20.8	12 17	3 25.20	+11 13.8	1.835	2.707	11.8	19.2
12 27	3 17.52	+17 14.1	1.704	2.507	15.8	21.0	12 27	3 20.77	+11 5.5	1.917	2.702	14.9	19.4
440768	2006 <i>HY</i> ₈	11 20.9	187°38	0°8/21.3	18		417970	2007 <i>TL</i> ₁₄₂	11 20.9	55°24	2°0/19.5	18	
10 18	4 13.94	+23 17.7	1.949	2.779	13.6	22.1	10 18	4 7.79	+15 28.3	2.302	3.144	11.4	21.1
10 28	4 7.91	+23 7.5	1.872	2.779	10.2	21.8	10 28	4 2.88	+14 47.3	2.241	3.156	8.3	20.9
11 7	3 59.60	+22 48.6	1.818	2.778	6.3	21.6	11 7	3 56.36	+14 4.1	2.205	3.169	5.1	20.7
11 17	3 49.82	+22 21.6	1.792	2.778	2.1	21.3	11 17	3 48.88	+13 21.4	2.198	3.181	2.2	20.6
11 27	3 39.65	+21 48.7	1.795	2.776	2.7	21.4	11 27	3 41.25	+12 42.6	2.220	3.193	3.4	20.7
12 7	3 30.27	+21 13.9	1.827	2.775	6.9	21.6	12 7	3 34.29	+12 10.9	2.271	3.206	6.6	20.9
12 17	3 22.66	+20 41.6	1.886	2.773	10.7	21.9	12 17	3 28.66	+11 48.8	2.349	3.219	9.6	21.1
12 27	3 17.52	+20 16.1	1.969	2.770	14.0	22.1	12 27	3 24.86	+11 37.5	2.451	3.232	12.2	21.3
277965	2006 <i>SE</i> ₃₁₈	11 20.9	5°34	0°3/20.8	18		486756	2014 <i>FQ</i> ₅₄	11 20.9	209°82	2°5/19.6	18	
10 18	4 10.17	+18 36.3	0.948	1.831	20.2	19.7	10 18	4 12.51	+13 48.0	2.138	2.975	12.3	21.4
10 28	4 6.73	+18 52.6	0.895	1.830	15.1	19.4	10 28	4 6.61	+13 19.8	2.058	2.969	9.2	21.1
11 7	3 59.60	+19 4.1	0.860	1.831	9.1	19.1	11 7	3 58.75	+12 50.1	2.002	2.964	5.7	20.9
11 17	3 49.90	+19 11.0	0.846	1.833	2.6	18.7	11 17	3 49.60	+12 21.7	1.975	2.957	2.7	20.7
11 27	3 39.55	+19 15.8	0.855	1.837	4.2	18.9	11 27	3 40.08	+11 57.6	1.978	2.951	4.0	20.8
12 7	3 30.59	+19 22.0	0.886	1.843	10.5	19.2	12 7	3 31.20	+11 40.8	2.010	2.944	7.4	21.0
12 17	3 24.61	+19 33.7	0.939	1.851	16.1	19.6	12 17	3 23.81	+11 33.7	2.070	2.936	10.9	21.2
12 27	3 22.55	+19 54.1	1.009	1.860	20.7	19.9	12 27	3 18.55	+11 37.7	2.152	2.928	13.8	21.4
329972	2005 <i>SF</i> ₇₇	11 20.9	121°66	3°6/19.0	16		386	Siegena	11 20.9	19°27	11°8/13.9	18	
10 18	4 15.08	+12 26.9	1.828	2.669	13.9	21.1	10 18	4 7.26	- 6 35.5	1.593	2.428	15.9	11.2
10 28	4 8.46	+11 33.1	1.774	2.687	10.3	21.0	10 28	4 3.02	- 8 30.0	1.555	2.434	13.7	11.1
11 7	3 59.75	+10 39.0	1.745	2.704	6.5	20.8	11 7	3 56.65	-10 6.4	1.538	2.440	12.1	11.0
11 17	3 49.81	+9 48.7	1.743	2.721	3.7	20.6	11 17	3 48.98	-11 15.8	1.544	2.448	11.9	11.0
11 27	3 39.75	+9 7.1	1.770	2.737	5.1	20.8	11 27	3 41.13	-11 51.7	1.574	2.456	12.9	11.1
12 7	3 30.67	+8 37.8	1.826	2.753	8.6	21.0	12 7	3 34.16	-11 52.6	1.626	2.465	14.8	11.3
12 17	3 23.43	+8 23.0	1.909	2.768	12.0	21.2	12 17	3 28.95	-11 21.1	1.698	2.475	16.9	11.4
12 27	3 18.59	+8 23.4	2.013	2.782	14.9	21.5	12 27	3 26.09	-10 22.4	1.786	2.485	18.9	11.6
200502	2001 <i>AD</i> ₁₄	11 20.9	335°36	2°5/19.9	18		515490	2014 <i>DN</i> ₈	11 20.9	239°91	0°0/20.8	18	
10 18	4 10.52	+15 39.4	1.416	2.277	16.0	19.5	10 18	4 14.11	+21 18.2	1.807	2.644	14.2	22.1
10 28	4 6.04	+15 14.6	1.343	2.268	12.0	19.2	10 28	4 8.29	+21 1.8	1.722	2.634	10.7	21.9
11 7	3 58.79	+14 46.5	1.292	2.259	7.3	19.0	11 7	3 59.98	+20 37.6	1.661	2.623	6.5	21.6
11 17	3 49.64	+14 18.2	1.266	2.251	2.9	18.7	11 17	3 49.99	+20 6.3	1.626	2.613	1.8	21.3
11 27	3 39.93	+13 54.2	1.267	2.244	4.6	18.8	11 27	3 39.46	+19 30.9	1.621	2.602	2.9	21.3
12 7	3 31.10	+13 38.7	1.293	2.237	9.4	19.0	12 7	3 29.69	+18 55.7	1.644	2.590	7.6	21.6
12 17	3 24.39	+13 35.3	1.343	2.231	14.0	19.3	12 17	3 21.76	+18 25.3	1.693	2.579	11.8	21.8
12 27	3 20.63	+13 45.8	1.413	2.226	17.9	19.5	12 27	3 16.46	+18 3.9	1.765	2.566	15.4	22.0
438333	2006 <i>KZ</i> ₁₁₉	11 20.9	64°48	5°2/18.8	18		388689	2007 <i>UG</i> ₁₁₀	11 20.9	131°74	0°5/21.1	18	
10 18	4 13.36	+ 7 42.4	1.609	2.457	15.1	20.9	10 18	4 14.70	+22 4.2	2.083	2.910	13.0	21.9
10 28	4 7.36	+ 7 5.2	1.565	2.478	11.4	20.7	10 28	4 8.23	+22 2.6	2.016	2.922	9.6	21.7
11 7	3 59.15	+ 6 33.6	1.544	2.500	7.7	20.6	11 7	3 59.69	+21 54.2	1.973	2.933	5.9	21.5
11 17	3 49.65	+ 6 11.8	1.549	2.521	5.3	20.5	11 17	3 49.85	+21 39.4	1.958	2.944	1.8	21.2
11 27	3 40.05	+ 6 3.7	1.582	2.542	6.5	20.6	11 27	3 39.76	+21 20.1	1.973	2.954	2.5	21.3
12 7	3 31.51	+ 6 11.0	1.641	2.564	9.7	20.9	12 7	3 30.48	+20 59.3	2.018	2.964	6.4	21.6
12 17	3 24.93	+ 6 33.8	1.726	2.585	13.0	21.1	12 17	3 22.89	+20 40.6	2.090	2.973	10.0	21.8
12 27	3 20.87	+ 7 10.7	1.831	2.606	15.9	21.4	12 27	3 17.61	+20 27.2	2.187	2.982	13.0	22.0
103492	2000 <i>AK</i> ₂₃₆	11 20.9	6°62	2°0/21.6	18		174423	2002 <i>WS</i> ₇	11 20.9	43°25	0°7/20.6	18	
10 18	4 4.26	+24 34.8	0.945	1.829	20.1	17.9	10 18	4 13.11	+18 10.9	1.619	2.467	15.0	19.8
10 28	4 2.32	+24 36.7	0.896	1.830	15.2	17.6	10 28	4 7.50	+18 13.3	1.560	2.477	11.1	19.6
11 7	3 56.89	+24 23.3	0.865	1.834	9.5	17.3	11 7	3 59.43	+18 11.9	1.523	2.488	6.6	19.4
11 17	3 49.12	+23 55.4	0.854	1.840	3.6	17.0	11 17	3 49.80	+18 7.5	1.512	2.499	1.9	19.1
11 27	3 40.85	+23 17.4	0.866	1.849	4.0	17.1	11 27	3 39.86	+18 2.3	1.529	2.510	3.2	19.2
12 7	3 33.99	+22 36.7	0.900	1.860	9.8	17.5	12 7	3 30.89	+17 59.2	1.574	2.521	7.8	19.5
12 17	3 29.94	+22 1.0	0.955	1.874	15.1	17.8	12 17	3 23.92	+18 1.0	1.644	2.533	11.9	19.8
12 27	3 29.51	+21 36.4	1.029	1.890	19.6	18.1	12 27	3 19.65	+18 10.1	1.737	2.545	15.3	20.1
28504	Rebeccafaye	11 20.9	145°71	3°9/22.6	18		129287	2005 <i>SP</i> ₁₄	11 20.9	353°30	0°2/20.		

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
163845	2003 <i>SP</i> ₆₀		11 20.9 111°26	1°6/20.0	18		518749	2009 <i>SB</i> ₁₆₄		11 20.9 106°24	1°5/21.7	18	
10 18	4 13.02	+17 39.8	1.839	2.681	13.8	20.5	10 18	4 12.97	+24 27.1	2.350	3.169	11.9	21.6
10 28	4 7.09	+17 0.9	1.778	2.693	10.2	20.3	10 28	4 6.86	+24 43.1	2.280	3.180	9.0	21.4
11 7	3 59.04	+16 17.1	1.740	2.704	6.1	20.0	11 7	3 58.85	+24 52.0	2.235	3.191	5.6	21.2
11 17	3 49.67	+15 31.4	1.730	2.715	2.1	19.8	11 17	3 49.66	+24 53.4	2.219	3.202	2.3	21.0
11 27	3 40.11	+14 47.9	1.749	2.726	3.5	19.9	11 27	3 40.19	+24 48.0	2.233	3.212	2.5	21.1
12 7	3 31.45	+14 10.9	1.796	2.737	7.6	20.2	12 7	3 31.40	+24 38.0	2.276	3.223	5.8	21.3
12 17	3 24.59	+13 43.9	1.870	2.747	11.3	20.5	12 17	3 24.10	+24 26.4	2.348	3.233	9.0	21.5
12 27	3 20.13	+13 29.2	1.967	2.757	14.5	20.7	12 27	3 18.89	+24 16.6	2.445	3.243	11.7	21.7
220030	2002 <i>QZ</i> ₁₀₂		11 20.9 78°60	1°4/21.5	18		330783	2008 <i>TZ</i> ₁₀₅		11 20.9 146°53	3°1/18.8	18	
10 18	4 14.94	+25 12.2	1.435	2.278	16.9	20.5	10 18	4 8.07	+11 20.2	2.477	3.316	10.8	21.5
10 28	4 9.27	+24 54.2	1.370	2.282	12.8	20.2	10 28	4 3.05	+10 37.3	2.407	3.319	8.0	21.3
11 7	4 0.68	+24 22.8	1.326	2.287	7.9	20.0	11 7	3 56.49	+9 54.8	2.363	3.321	5.2	21.1
11 17	3 50.19	+23 38.7	1.307	2.292	2.9	19.7	11 17	3 48.98	+9 15.6	2.347	3.324	3.2	21.0
11 27	3 39.30	+22 45.7	1.315	2.297	3.3	19.7	11 27	3 41.26	+8 43.0	2.361	3.326	4.2	21.1
12 7	3 29.58	+21 50.1	1.350	2.301	8.3	20.0	12 7	3 34.11	+8 19.9	2.405	3.328	6.9	21.2
12 17	3 22.26	+20 59.2	1.410	2.306	13.0	20.3	12 17	3 28.17	+8 7.8	2.475	3.330	9.7	21.4
12 27	3 18.10	+20 18.8	1.492	2.311	16.9	20.6	12 27	3 23.95	+8 7.5	2.569	3.332	12.2	21.6
51105	2000 <i>HQ</i> ₁₃		11 20.9 288°70	0°1/20.8	18		389832	2012 <i>HG</i> ₃₃		11 20.9 176°99	3°2/18.6	17	
10 18	4 9.50	+20 31.8	2.300	3.134	11.7	19.1	10 18	4 8.25	+9 5.1	2.884	3.715	9.6	21.8
10 28	4 4.45	+20 21.6	2.208	3.118	8.7	18.9	10 28	4 2.98	+8 30.5	2.811	3.717	7.2	21.6
11 7	3 57.51	+20 6.0	2.141	3.103	5.3	18.6	11 7	3 56.38	+7 57.7	2.764	3.718	4.8	21.5
11 17	3 49.29	+19 45.8	2.101	3.088	1.5	18.4	11 17	3 48.94	+7 29.1	2.747	3.719	3.3	21.4
11 27	3 40.64	+19 23.0	2.092	3.073	2.4	18.4	11 27	3 41.32	+7 7.5	2.760	3.719	4.1	21.4
12 7	3 32.51	+19 0.6	2.111	3.057	6.2	18.6	12 7	3 34.16	+6 54.7	2.803	3.719	6.4	21.6
12 17	3 25.73	+18 41.4	2.159	3.042	9.7	18.8	12 17	3 28.05	+6 51.9	2.874	3.719	8.8	21.7
12 27	3 20.94	+18 28.6	2.230	3.027	12.7	19.0	12 27	3 23.45	+6 59.5	2.969	3.718	11.0	21.9
192335	1995 <i>HD</i> ₄		11 20.9 286°28	2°0/20.1	18		430071	2013 <i>ST</i> ₃₈		11 20.9 142°50	2°0/21.6	16	
10 18	4 12.94	+16 10.1	1.601	2.451	15.1	19.9	10 18	4 19.10	+24 37.9	1.563	2.395	16.3	21.6
10 28	4 7.69	+15 51.9	1.518	2.437	11.3	19.6	10 28	4 12.25	+24 55.3	1.496	2.402	12.4	21.4
11 7	3 59.77	+15 30.2	1.458	2.423	6.9	19.4	11 7	4 2.47	+25 2.6	1.451	2.409	7.8	21.2
11 17	3 49.99	+15 7.4	1.424	2.409	2.5	19.1	11 17	3 50.73	+24 58.3	1.432	2.416	3.2	20.9
11 27	3 39.56	+14 46.9	1.417	2.395	4.1	19.1	11 27	3 38.53	+24 43.5	1.442	2.422	3.4	20.9
12 7	3 29.89	+14 32.6	1.437	2.381	8.8	19.4	12 7	3 27.43	+24 22.1	1.479	2.427	8.0	21.2
12 17	3 22.15	+14 27.9	1.483	2.367	13.3	19.6	12 17	3 18.69	+23 59.3	1.542	2.433	12.4	21.5
12 27	3 17.23	+14 35.1	1.550	2.353	17.1	19.8	12 27	3 13.12	+23 40.9	1.628	2.437	16.1	21.8
191457	2003 <i>ST</i> ₂₃₁		11 20.9 98°80	3°0/22.4	18		109547	2001 <i>QZ</i> ₂₅₆		11 20.9 233°23	3°8/18.9	18	
10 18	4 13.69	+28 55.2	2.337	3.144	12.4	20.2	10 18	4 10.69	+10 46.3	1.947	2.792	13.0	19.4
10 28	4 7.50	+29 22.5	2.266	3.154	9.5	20.0	10 28	4 5.38	+10 9.8	1.877	2.791	9.8	19.2
11 7	3 59.29	+29 39.9	2.219	3.164	6.4	19.8	11 7	3 58.06	+9 34.4	1.831	2.791	6.3	19.0
11 17	3 49.78	+29 46.0	2.200	3.174	3.6	19.7	11 17	3 49.45	+9 3.7	1.813	2.790	3.9	18.9
11 27	3 39.95	+29 41.0	2.210	3.184	3.4	19.7	11 27	3 40.53	+8 41.5	1.823	2.789	5.1	19.0
12 7	3 30.82	+29 27.2	2.251	3.194	6.1	19.9	12 7	3 32.31	+8 30.8	1.861	2.788	8.4	19.2
12 17	3 23.27	+29 8.2	2.319	3.203	9.1	20.1	12 17	3 25.67	+8 33.2	1.925	2.787	11.7	19.4
12 27	3 17.92	+28 48.3	2.412	3.213	11.8	20.3	12 27	3 21.22	+8 49.0	2.011	2.787	14.7	19.6
411564	2011 <i>CG</i> ₁₀₁		11 20.9 327°30	0°3/20.7	17		298403	2003 <i>SK</i> ₂₆₈		11 20.9 94°21	0°9/21.3	18	
10 18	4 8.56	+21 5.8	1.920	2.764	13.2	21.0	10 18	4 13.29	+23 38.4	1.759	2.595	14.6	21.7
10 28	4 4.03	+20 38.3	1.837	2.753	9.8	20.8	10 28	4 7.61	+23 26.4	1.689	2.599	10.9	21.5
11 7	3 57.36	+20 3.1	1.778	2.742	5.9	20.5	11 7	3 59.52	+23 4.8	1.642	2.603	6.7	21.3
11 17	3 49.26	+19 21.8	1.746	2.732	1.7	20.2	11 17	3 49.87	+22 34.3	1.622	2.608	2.2	21.0
11 27	3 40.75	+18 37.9	1.742	2.723	2.8	20.3	11 27	3 39.89	+21 57.7	1.631	2.612	2.8	21.0
12 7	3 32.91	+17 55.9	1.766	2.714	7.1	20.5	12 7	3 30.81	+21 19.3	1.667	2.617	7.2	21.3
12 17	3 26.68	+17 20.0	1.817	2.705	11.0	20.7	12 17	3 23.67	+20 44.2	1.731	2.621	11.3	21.6
12 27	3 22.75	+16 53.9	1.891	2.697	14.3	20.9	12 27	3 19.16	+20 16.9	1.817	2.625	14.7	21.8
221790	2008 <i>AE</i> ₆₆		11 20.9 172°98	2°9/22.3	17		189691	2001 <i>SU</i> ₂₅₈		11 20.9 236°27	1°3/21.5	18	
10 18	4 18.04	+28 34.9	1.787	2.603	15.2	21.4	10 18	4 14.55	+24 46.8	1.702	2.536	15.1	20.5
10 28	4 11.25	+28 38.7	1.711	2.607	11.7	21.2	10 28	4 8.78	+24 32.1	1.621	2.529	11.4	20.3
11 7	4 1.76	+28 28.9	1.659	2.609	7.7	20.9	11 7	4 0.36	+24 5.9	1.563	2.522	7.1	20.0
11 17	3 50.51	+28 4.4	1.632	2.611	3.9	20.7	11 17	3 50.15	+23 28.4	1.530	2.515	2.6	19.7
11 27	3 38.82	+27 26.5	1.635	2.612	3.7	20.7	11 27	3 39.43	+22 42.5	1.526	2.508	3.0	19.7
12 7	3 28.11	+26 39.8	1.666	2.613	7.5	20.9	12 7	3 29.57	+21 53.2	1.551	2.500	7.7	20.0
12 17	3 19.54	+25 50.7	1.724	2.613	11.4	21.2	12 17	3 21.74	+21 6.7	1.601	2.492	12.0	20.2
12 27	3 13.88	+25 5.7	1.806	2.612	14.9	21.4	12 27	3 16.73	+20 28.4	1.674	2.484	15.7	20.5
195826	2002 <i>QQ</i> ₄₅		11 20.9 59°99	3°3/22.4	18		299584	2006 <i>GY</i> ₁₂		11 20.9 142°40	1°6/20.0	18	
10 18	4 15.73	+28 40.6	2.107	2.917	13.4	19.4	10 18	4 13.61	+16 26.7	2.106	2.940	12.6	22.4
10 28	4 9.02	+29 18.4	2.054	2.944	10.3	19.3	10 28	4 7.35	+16 2.6	2.039	2.951	9.3	22.2
11 7	4 0.18	+29 45.5	2.025	2.971	6.9	19.1	11 7	3 59.15	+15 35.4	1.998	2.960	5.6	22.0
11 17	3 50.01	+30 0.0	2.023	2.998	3.9	19.0	11 17	3 49.76	+15 7.2	1.984	2.969	2.0	21.8
11 27	3 39.64	+30 2.1	2.051	3.024	3.7	19.0	11 27	3 40.14	+14 41.0	2.001	2.978	3.3	21.9
12 7	3 30.19	+29 54.3	2.108	3.051	6.4	19.2	12 7	3 31.29	+14 20.0	2.047	2.986	6.9	22.1
12 17	3 22.55	+29 40.5	2.193	3.078	9.5	19.5	12 17	3 24.03	+14 6.6	2.121	2.993	10.4	22.4
12 27	3 17.33	+29 25.3	2.302	3.105	12.2	19.7	12 27	3 18.95	+14 2.7	2.219	3.000	13.3	22.6
176714	2002 <i>QH</i> ₆₇		11 20.9 226°87	0°1/20.9	18		298046	2002 <i>QF</i> ₇		11 20.9 44°65	1°2/20.5	18	
10 18	4 16.11	+21 25.1	1.756	2.590	14.7	21.3	10 18	4 15.01	+17 24.4	1.351	2.206	17.0	20.1
10 28	4 9.87	+21 12.7	1.670	2.581	11.0	21.1	10 28	4 8.99	+17 20.1	1.312	2.234	12.5	19.9
11 7	4 1.00	+20 52.3	1.608	2.571	6.7	20.8	11 7	4 0.31	+17 12.1	1.295	2.262	7.4	19.7
11 17	3 50.32	+20 24.5	1.573	2.560	1.9	20.5	11 17	3 50.07	+17 2.0	1.303	2.290	2.2	19.4
11 27	3 39.07	+19 51.8	1.567	2.548	3.0	20.5	11 27	3 39.78	+16 52.9	1.339	2.319	3.7	19.6
12 7	3 28.59	+19 18.7	1.590	2.536	7.8	20.8	12 7	3 30.84	+16 48.1	1.400	2.348	8.5	20.0
12 17	3 20.06	+18 49.8	1.639	2.524	12.2	21.0	12 17	3 24.28	+16 50.4	1.487	2.378	12.8	20.3
12 27	3 14.31	+18 29.6	1.711	2									

EPHEMERIDES

11 20.9

11 20.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
364896	2008 <i>ET</i> ₇₈		11 20.9 270°16	0°5/21.1	17		143055	2002 <i>WQ</i> ₅		11 20.9 268°45	0°3/21.1	18	
10 18	4 12.53	+21 45.0	2.039	2.872	13.0	21.4	10 18	4 11.45	+23 45.9	1.999	2.831	13.2	20.2
10 28	4 6.98	+21 47.0	1.949	2.858	9.8	21.2	10 28	4 6.16	+23 5.9	1.908	2.817	9.9	20.0
11 7	3 59.18	+21 42.7	1.883	2.844	6.0	20.9	11 7	3 58.69	+22 14.8	1.841	2.802	6.1	19.7
11 17	3 49.84	+21 32.2	1.844	2.830	1.9	20.6	11 17	3 49.73	+21 14.3	1.802	2.788	1.8	19.4
11 27	3 39.96	+21 16.9	1.834	2.816	2.6	20.6	11 27	3 40.34	+20 8.0	1.791	2.773	2.6	19.5
12 7	3 30.67	+20 59.7	1.854	2.801	6.8	20.9	12 7	3 31.63	+19 1.5	1.810	2.758	7.0	19.7
12 17	3 22.98	+20 44.2	1.900	2.787	10.7	21.1	12 17	3 24.57	+18 0.5	1.857	2.742	10.9	19.9
12 27	3 17.63	+20 33.9	1.971	2.772	14.0	21.3	12 27	3 19.85	+17 9.8	1.927	2.727	14.3	20.1
10172	Humphreys		11 20.9 103°39	2°3/21.9	18		478867	2012 <i>VU</i> ₈₄		11 20.9 116°47	0°2/20.9	18	
10 18	4 14.00	+26 30.5	1.946	2.769	13.9	18.2	10 18	4 17.85	+19 32.3	1.842	2.673	14.2	21.2
10 28	4 8.03	+26 41.7	1.875	2.775	10.6	18.0	10 28	4 10.84	+19 53.4	1.778	2.686	10.6	21.0
11 7	3 59.75	+26 42.7	1.827	2.781	6.8	17.7	11 7	4 1.44	+20 10.3	1.738	2.699	6.4	20.7
11 17	3 49.97	+26 32.8	1.806	2.787	3.1	17.5	11 17	3 50.50	+20 22.4	1.725	2.712	1.8	20.5
11 27	3 39.83	+26 13.0	1.814	2.793	3.1	17.5	11 27	3 39.23	+20 30.5	1.743	2.724	2.8	20.6
12 7	3 30.52	+25 46.8	1.851	2.799	6.8	17.8	12 7	3 28.88	+20 36.7	1.789	2.735	7.1	20.9
12 17	3 23.04	+25 18.7	1.915	2.804	10.4	18.0	12 17	3 20.46	+20 43.7	1.863	2.747	11.0	21.1
12 27	3 18.08	+24 53.4	2.002	2.810	13.6	18.2	12 27	3 14.68	+20 54.3	1.961	2.757	14.2	21.4
125221	2001 <i>UR</i> ₁₅₆		11 20.9 285°91	1°7/20.3	18		256660	2007 <i>XX</i> ₂₁		11 20.9 37°46	0°3/20.8	18	
10 18	4 13.88	+16 18.3	1.582	2.432	15.3	19.5	10 18	4 17.34	+18 24.4	1.246	2.102	18.1	20.0
10 28	4 8.49	+16 10.6	1.498	2.416	11.4	19.2	10 28	4 11.47	+18 43.6	1.184	2.105	13.5	19.8
11 7	4 0.35	+16 0.1	1.435	2.400	7.0	18.9	11 7	4 2.27	+18 59.0	1.143	2.109	8.2	19.5
11 17	3 50.23	+15 48.5	1.399	2.384	2.4	18.6	11 17	3 50.82	+19 10.3	1.126	2.113	2.3	19.1
11 27	3 39.41	+15 38.5	1.390	2.369	3.9	18.6	11 27	3 38.77	+19 18.7	1.136	2.117	3.7	19.3
12 7	3 29.30	+15 33.4	1.408	2.353	8.8	18.9	12 7	3 27.93	+19 27.0	1.171	2.122	9.4	19.6
12 17	3 21.18	+15 36.4	1.452	2.337	13.4	19.1	12 17	3 19.74	+19 38.6	1.230	2.127	14.4	19.9
12 27	3 15.94	+15 50.0	1.517	2.322	17.3	19.3	12 27	3 15.10	+19 56.9	1.310	2.132	18.6	20.2
506110	2016 <i>AL</i> ₁₉₅		11 20.9 188°74	14°8/27.8	17		129271	2005 <i>QK</i> ₁₆₁		11 20.9 27°39	1°7/21.4	18	
10 18	4 30.59	+50 47.8	1.341	2.078	23.2	21.4	10 18	4 15.87	+22 21.6	1.261	2.114	18.1	19.4
10 28	4 23.32	+52 19.5	1.273	2.078	20.6	21.2	10 28	4 10.39	+22 53.2	1.202	2.120	13.6	19.1
11 7	4 10.41	+53 18.9	1.221	2.078	18.0	21.1	11 7	4 1.62	+23 16.9	1.163	2.127	8.5	18.8
11 17	3 53.25	+53 32.1	1.187	2.077	15.8	20.9	11 17	3 50.63	+23 30.9	1.148	2.134	3.1	18.6
11 27	3 34.77	+52 51.1	1.174	2.075	14.8	20.9	11 27	3 39.08	+23 35.6	1.160	2.141	3.7	18.6
12 7	3 18.41	+51 19.9	1.183	2.073	15.5	20.9	12 7	3 28.76	+23 34.3	1.197	2.149	9.0	19.0
12 17	3 6.73	+49 13.1	1.214	2.070	17.6	21.0	12 17	3 21.09	+23 31.8	1.257	2.158	13.8	19.3
12 27	3 0.85	+46 50.6	1.264	2.067	20.2	21.2	12 27	3 16.93	+23 33.1	1.339	2.167	17.9	19.5
266223	2006 <i>WJ</i> ₂₀₀		11 20.9 219°68	0°3/21.0	18		16243	Rosenbauer		11 20.9 28°24	7°8/26.5	18	
10 18	4 14.90	+22 33.4	1.671	2.509	15.1	21.4	10 18	4 13.79	+43 28.8	1.849	2.616	16.7	17.3
10 28	4 9.02	+22 9.0	1.593	2.504	11.3	21.1	10 28	4 8.32	+43 37.3	1.784	2.627	14.0	17.2
11 7	4 0.51	+21 34.4	1.537	2.499	6.9	20.8	11 7	4 0.08	+43 21.3	1.739	2.638	11.2	17.0
11 17	3 50.24	+20 51.0	1.507	2.493	2.0	20.5	11 17	3 50.12	+42 37.8	1.717	2.651	8.7	16.9
11 27	3 39.48	+20 2.2	1.506	2.487	3.0	20.6	11 27	3 39.94	+41 27.6	1.721	2.664	7.8	16.9
12 7	3 29.61	+19 13.4	1.533	2.481	7.9	20.9	12 7	3 31.01	+39 56.6	1.751	2.678	8.9	17.0
12 17	3 21.78	+18 30.4	1.586	2.474	12.3	21.1	12 17	3 24.42	+38 13.7	1.808	2.692	11.3	17.1
12 27	3 16.76	+17 58.0	1.662	2.467	16.0	21.3	12 27	3 20.84	+36 29.1	1.889	2.706	13.9	17.3
125051	2001 <i>TK</i> ₂₁₉		11 20.9 230°12	1°0/20.5	18		84669	2002 <i>VZ</i> ₈₂		11 20.9 254°10	3°0/19.2	18	
10 18	4 15.15	+17 42.3	1.831	2.669	14.0	19.9	10 18	4 10.32	+14 34.1	1.922	2.768	13.1	19.9
10 28	4 9.04	+17 35.0	1.747	2.660	10.4	19.7	10 28	4 5.20	+13 37.8	1.848	2.765	9.7	19.7
11 7	4 0.48	+17 23.7	1.688	2.651	6.3	19.4	11 7	3 58.03	+12 38.1	1.798	2.761	6.0	19.5
11 17	3 50.24	+17 9.7	1.655	2.642	1.9	19.1	11 17	3 49.55	+11 39.1	1.776	2.758	3.1	19.3
11 27	3 39.46	+16 55.3	1.652	2.632	3.3	19.2	11 27	3 40.76	+10 45.8	1.783	2.754	4.5	19.4
12 7	3 29.39	+16 43.6	1.678	2.621	7.7	19.5	12 7	3 32.68	+10 2.8	1.818	2.751	8.2	19.6
12 17	3 21.13	+16 37.8	1.730	2.611	11.9	19.7	12 17	3 26.21	+9 33.4	1.880	2.747	11.7	19.8
12 27	3 15.44	+16 40.5	1.805	2.599	15.4	19.9	12 27	3 21.96	+9 19.4	1.963	2.743	14.8	20.0
177972	2006 <i>QL</i> ₂		11 20.9 356°94	9°0/24.8	18		349740	2008 <i>YJ</i> ₁₂₆		11 20.9 259°81	13°5/14.6	18	
10 18	4 12.51	+38 54.1	1.377	2.188	19.2	19.6	10 18	4 15.66	-19 15.3	2.004	2.757	16.0	20.7
10 28	4 8.39	+39 52.6	1.308	2.183	16.0	19.3	10 28	4 9.11	-20 12.4	1.944	2.743	14.7	20.6
11 7	4 0.67	+40 28.1	1.258	2.180	12.6	19.1	11 7	4 0.38	-20 45.2	1.903	2.730	13.8	20.5
11 17	3 50.37	+40 34.3	1.229	2.177	9.8	19.0	11 17	3 50.23	-20 46.6	1.884	2.716	13.5	20.4
11 27	3 39.28	+40 8.7	1.223	2.176	9.0	18.9	11 27	3 39.72	-20 12.1	1.888	2.702	14.2	20.4
12 7	3 29.39	+39 15.6	1.242	2.176	10.9	19.0	12 7	3 29.98	-19 2.1	1.913	2.688	15.4	20.5
12 17	3 22.32	+38 4.3	1.283	2.178	14.1	19.2	12 17	3 21.93	-17 20.4	1.960	2.674	17.0	20.6
12 27	3 19.07	+36 46.7	1.345	2.180	17.5	19.5	12 27	3 16.24	-15 13.7	2.025	2.659	18.7	20.7
485673	2011 <i>WG</i> ₁₀₈		11 20.9 262°55	1°7/20.1	17		308778	2006 <i>PT</i> ₂₄		11 20.9 86°65	5°6/24.8	18	
10 18	4 12.57	+15 18.6	2.096	2.933	12.5	21.7	10 18	4 18.01	+38 37.5	2.012	2.788	15.2	19.9
10 28	4 6.89	+15 11.3	2.006	2.918	9.3	21.5	10 28	4 10.89	+38 32.3	1.954	2.813	12.3	19.7
11 7	3 59.10	+15 2.6	1.940	2.903	5.7	21.2	11 7	4 1.36	+38 6.9	1.918	2.837	9.1	19.6
11 17	3 49.85	+14 53.8	1.902	2.887	2.1	20.9	11 17	3 50.45	+37 19.6	1.908	2.861	6.4	19.5
11 27	3 40.09	+14 47.1	1.894	2.872	3.4	21.0	11 27	3 39.50	+36 12.6	1.926	2.885	5.6	19.5
12 7	3 30.88	+14 44.9	1.916	2.856	7.2	21.2	12 7	3 29.79	+34 51.6	1.973	2.909	7.4	19.6
12 17	3 23.15	+14 49.4	1.964	2.839	10.9	21.4	12 17	3 22.26	+33 24.6	2.048	2.932	10.1	19.8
12 27	3 17.63	+15 2.2	2.036	2.823	14.1	21.6	12 27	3 17.49	+31 59.4	2.147	2.954	12.8	20.1
22540	Mork		11 20.9 282°45	1°1/20.3	18		220733	2004 <i>TS</i> ₁₁					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
306776	2001 <i>DD</i> ₇₇	11 20.9 356°10 27°5/14.2 17											
10 18	4 27.46	+55 26.3	0.956	1.713	29.3	18.7							
10 28	4 26.97	+61 6.8	0.913	1.699	28.2	18.5							
11 7	4 17.87	+66 17.4	0.888	1.688	27.6	18.4							
11 17	3 57.29	+70 29.1	0.878	1.681	27.5	18.4							
11 27	3 25.92	+73 15.2	0.882	1.677	27.8	18.4							
12 7	2 52.03	+74 26.9	0.898	1.676	28.5	18.4							
12 17	2 28.02	+74 20.6	0.924	1.679	29.3	18.5							
12 27	2 20.84	+73 27.2	0.959	1.686	30.2	18.6							
453749	2011 <i>CN</i> ₃₇	11 20.9 283°07 1°7/20.0 17											
10 18	4 9.70	+15 40.7	2.231	3.071	11.8	21.7							
10 28	4 4.59	+15 22.1	2.149	3.063	8.7	21.5							
11 7	3 57.64	+15 1.4	2.091	3.054	5.3	21.3							
11 17	3 49.46	+14 40.3	2.062	3.046	2.1	21.0							
11 27	3 40.93	+14 21.5	2.062	3.038	3.2	21.1							
12 7	3 32.95	+14 7.7	2.091	3.030	6.8	21.3							
12 17	3 26.34	+14 1.1	2.147	3.022	10.1	21.5							
12 27	3 21.72	+14 3.6	2.227	3.014	13.1	21.7							
425554	2010 <i>RJ</i> ₁₁₉	11 20.9 59°64 2°7/19.9 16											
10 18	4 15.97	+16 30.2	1.147	2.012	18.8	21.1							
10 28	4 10.18	+15 51.3	1.103	2.029	13.8	20.8							
11 7	4 1.27	+15 8.1	1.080	2.047	8.3	20.6							
11 17	3 50.48	+14 25.0	1.080	2.066	3.2	20.4							
11 27	3 39.53	+13 47.8	1.106	2.084	5.0	20.5							
12 7	3 30.09	+13 22.0	1.158	2.103	10.2	20.9							
12 17	3 23.36	+13 11.2	1.232	2.122	14.9	21.2							
12 27	3 20.00	+13 16.5	1.326	2.141	18.8	21.5							
477382	2009 <i>VR</i> ₁₈	11 20.9 10°28 2°2/21.6 16											
10 18	4 11.59	+24 4.5	1.074	1.942	19.5	21.1							
10 28	4 7.65	+24 22.9	1.019	1.944	14.8	20.8							
11 7	4 0.16	+24 29.1	0.982	1.947	9.3	20.5							
11 17	3 50.26	+24 22.1	0.967	1.952	3.6	20.2							
11 27	3 39.77	+24 4.0	0.976	1.958	4.0	20.3							
12 7	3 30.64	+23 40.1	1.009	1.965	9.6	20.6							
12 17	3 24.36	+23 17.1	1.063	1.974	14.8	20.9							
12 27	3 21.82	+23 1.4	1.138	1.984	19.2	21.2							
517809	2015 <i>QX</i> ₁₂	11 20.9 55°89 3°6/19.3 18											
10 18	4 11.34	+11 17.7	1.841	2.688	13.6	21.2							
10 28	4 5.95	+10 49.4	1.779	2.694	10.1	21.0							
11 7	3 58.48	+10 22.5	1.740	2.700	6.5	20.8							
11 17	3 49.70	+10 0.3	1.727	2.706	3.7	20.6							
11 27	3 40.65	+9 46.1	1.744	2.713	4.9	20.7							
12 7	3 32.38	+9 42.6	1.788	2.719	8.3	20.9							
12 17	3 25.80	+9 51.2	1.857	2.726	11.8	21.1							
12 27	3 21.51	+10 12.0	1.950	2.732	14.8	21.4							
321476	2009 <i>RJ</i> ₆₅	11 20.9 115°07 1°5/19.9 18											
10 18	4 10.28	+16 20.3	2.431	3.265	11.1	21.0							
10 28	4 4.71	+15 51.2	2.367	3.278	8.2	20.8							
11 7	3 57.54	+15 19.4	2.328	3.290	4.9	20.6							
11 17	3 49.41	+14 47.2	2.318	3.303	1.9	20.4							
11 27	3 41.11	+14 17.2	2.339	3.315	3.0	20.6							
12 7	3 33.46	+13 52.3	2.389	3.326	6.2	20.8							
12 17	3 27.14	+13 34.7	2.467	3.338	9.2	21.0							
12 27	3 22.64	+13 26.2	2.570	3.349	11.7	21.2							
315038	2007 <i>CO</i> ₂₃	11 20.9 5°47 1°6/20.1 17											
10 18	4 10.66	+16 44.2	1.840	2.687	13.6	21.4							
10 28	4 5.57	+16 22.0	1.770	2.687	10.0	21.1							
11 7	3 58.33	+15 56.4	1.723	2.687	6.1	20.9							
11 17	3 49.68	+15 29.6	1.702	2.688	2.2	20.7							
11 27	3 40.68	+15 4.9	1.711	2.689	3.5	20.7							
12 7	3 32.45	+14 45.7	1.747	2.690	7.6	21.0							
12 17	3 25.90	+14 35.0	1.809	2.691	11.4	21.2							
12 27	3 21.71	+14 34.7	1.894	2.692	14.6	21.5							
484256	2007 <i>GE</i> ₃₀	11 20.9 158°10 0°7/21.4 18											
10 18	4 11.13	+23 0.9	3.111	3.924	9.5	22.0							
10 28	4 5.14	+23 1.7	3.034	3.932	7.1	21.8							
11 7	3 57.75	+22 57.3	2.983	3.939	4.3	21.6							
11 17	3 49.48	+22 47.8	2.961	3.946	1.5	21.4							
11 27	3 41.00	+22 34.4	2.971	3.952	1.8	21.5							
12 7	3 33.01	+22 18.9	3.013	3.958	4.6	21.7							
12 17	3 26.11	+22 3.6	3.084	3.963	7.3	21.9							
12 27	3 20.77	+21 50.9	3.182	3.967	9.6	22.0							
105089	2000 <i>KY</i> ₈₁	11 20.9 197°81 1°0/21.7 18											
10 18	4 9.53	+26 1.1	2.739	3.554	10.5	19.9							
10 28	4 4.17	+25 27.8	2.654	3.552	7.9	19.7							
11 7	3 57.25	+24 45.4	2.594	3.550	5.0	19.5							
11 17	3 49.35	+23 54.9	2.564	3.548	1.9	19.3							
11 27	3 41.25	+22 58.9	2.564	3.545	2.0	19.3							
12 7	3 33.71	+22 1.0	2.595	3.542	5.1	19.5							
12 17	3 27.40	+21 5.2	2.655	3.539	8.1	19.7							
12 27	3 22.83	+20 15.2	2.742	3.535	10.7	19.9							
367941	2012 <i>DZ</i> ₁₂	11 20.9 190°77 2°6/22.8 17											
10 18	4 11.92	+30 35.2	2.845	3.640	10.7	22.1							
10 28	4 5.97	+30 30.1	2.757	3.639	8.3	21.9							
11 7	3 58.36	+30 14.6	2.695	3.637	5.6	21.7							
11 17	3 49.68	+29 48.2	2.661	3.634	3.2	21.5							
11 27	3 40.74	+29 12.0	2.657	3.631	2.9	21.5							
12 7	3 32.35	+28 29.0	2.684	3.628	5.2	21.7							
12 17	3 25.25	+27 42.8	2.741	3.624	7.9	21.8							
12 27	3 19.98	+26 57.7	2.824	3.620	10.4	22.0							
360690	2004 <i>SV</i> ₂₀	11 20.9 95°13 4°0/22.5 17											
10 18	4 24.30	+29 11.4	1.418	2.238	18.3	21.0							
10 28	4 16.18	+29 38.1	1.370	2.265	14.0	20.8							
11 7	4 4.82	+29 48.6	1.343	2.292	9.3	20.6							
11 17	3 51.52	+29 40.2	1.342	2.319	5.0	20.4							
11 27	3 38.07	+29 14.1	1.368	2.344	4.7	20.4							
12 7	3 26.22	+28 36.0	1.423	2.369	8.5	20.7							
12 17	3 17.25	+27 53.7	1.502	2.393	12.7	21.0							
12 27	3 11.84	+27 14.9	1.604	2.416	16.2	21.3							
411870	2012 <i>ES</i>	11 20.9 161°39 3°0/18.9 18											
10 18	4 9.23	+11 9.2	2.580	3.415	10.5	22.2							
10 28	4 3.89	+10 28.6	2.510	3.419	7.8	22.0							
11 7	3 57.06	+9 48.5	2.466	3.423	5.1	21.9							

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
379551	2011 AN ₂₄	11 20.9	157°29'	2°5'/19.9	18		139692	2001 QU ₂₁₄	11 20.9	6°44'	5°6'/23.3	18	
10 18	4 16.54	+14 6.0	1.742	2.582	14.5	20.9	10 18	4 13.22	+32 41.1	1.530	2.353	17.0	19.2
10 28	4 9.96	+13 47.0	1.675	2.588	10.8	20.7	10 28	4 8.33	+33 19.9	1.462	2.354	13.5	19.0
11 7	4 0.98	+13 26.9	1.632	2.594	6.6	20.4	11 7	4 0.40	+33 42.1	1.414	2.355	9.7	18.7
11 17	3 50.47	+13 8.2	1.616	2.599	2.9	20.2	11 17	3 50.38	+33 44.0	1.389	2.357	6.4	18.6
11 27	3 39.61	+12 54.0	1.628	2.603	4.2	20.3	11 27	3 39.77	+33 25.2	1.391	2.360	5.9	18.5
12 7	3 29.65	+12 47.3	1.670	2.607	8.3	20.6	12 7	3 30.20	+32 49.6	1.418	2.363	8.7	18.7
12 17	3 21.61	+12 50.4	1.737	2.610	12.2	20.8	12 17	3 23.00	+32 4.4	1.471	2.368	12.4	19.0
12 27	3 16.20	+13 4.5	1.827	2.613	15.6	21.0	12 27	3 19.04	+31 17.7	1.545	2.373	15.9	19.2
46295	2001 KP ₇₀	11 20.9	40°80'	6°5'/17.7	18		404569	2013 JV ₅₇	11 20.9	64°83'	2°4'/19.7	18	
10 18	4 9.33	+1 1.9	2.151	2.983	12.4	18.8	10 18	4 10.75	+13 53.8	2.023	2.866	12.7	21.2
10 28	4 4.19	+0 21.1	2.092	2.987	9.9	18.6	10 28	4 5.33	+13 28.3	1.966	2.880	9.3	21.0
11 7	3 57.33	-0 10.9	2.057	2.992	7.6	18.5	11 7	3 58.04	+13 2.2	1.932	2.895	5.7	20.8
11 17	3 49.40	-0 29.8	2.048	2.996	6.5	18.4	11 17	3 49.62	+12 37.9	1.927	2.909	2.7	20.6
11 27	3 41.26	-0 32.4	2.068	3.001	7.4	18.5	11 27	3 41.01	+12 18.6	1.950	2.924	3.9	20.7
12 7	3 33.77	-0 17.4	2.114	3.006	9.5	18.6	12 7	3 33.18	+12 6.9	2.002	2.938	7.3	21.0
12 17	3 27.66	+0 14.7	2.186	3.011	12.0	18.8	12 17	3 26.91	+12 4.6	2.081	2.953	10.6	21.2
12 27	3 23.48	+1 1.9	2.279	3.017	14.2	19.0	12 27	3 22.74	+12 12.6	2.183	2.968	13.4	21.4
493222	2014 UT ₆₁	11 20.9	321°27'	0°8'/20.6	17		42192	2001 CJ ₃₉	11 20.9	134°60'	6°3'/18.5	18	
10 18	4 10.26	+17 49.5	2.200	3.037	12.0	21.4	10 18	4 14.54	+2 10.6	1.989	2.817	13.4	18.7
10 28	4 5.07	+17 46.6	2.120	3.033	8.9	21.2	10 28	4 8.12	+1 43.4	1.930	2.825	10.6	18.6
11 7	3 57.97	+17 40.7	2.065	3.028	5.3	21.0	11 7	3 59.72	+1 25.2	1.895	2.834	7.8	18.4
11 17	3 49.62	+17 32.7	2.038	3.024	1.6	20.8	11 17	3 50.10	+1 19.8	1.886	2.842	6.3	18.3
11 27	3 40.90	+17 24.6	2.040	3.020	2.7	20.8	11 27	3 40.26	+1 30.2	1.907	2.850	7.1	18.4
12 7	3 32.77	+17 18.6	2.071	3.016	6.4	21.1	12 7	3 31.21	+1 57.3	1.955	2.857	9.6	18.6
12 17	3 26.04	+17 16.9	2.130	3.012	9.9	21.3	12 17	3 23.78	+2 40.0	2.030	2.864	12.4	18.8
12 27	3 21.37	+17 21.7	2.213	3.008	12.9	21.5	12 27	3 18.56	+3 36.3	2.126	2.871	14.9	19.0
74369	1998 WZ ₄₁	11 20.9	35°03'	0°3'/20.8	18		422029	2014 QF ₃₄₇	11 20.9	56°71'	11°4'/15.7	18	
10 18	4 13.56	+19 3.7	1.662	2.507	14.9	19.2	10 18	4 10.71	-13 48.1	2.057	2.842	14.6	20.3
10 28	4 7.97	+19 9.9	1.595	2.511	11.0	19.0	10 28	4 5.16	-14 50.2	2.023	2.856	12.9	20.2
11 7	3 59.90	+19 11.6	1.552	2.516	6.6	18.8	11 7	3 57.87	-15 31.7	2.010	2.871	11.7	20.1
11 17	3 50.18	+19 9.4	1.535	2.521	1.9	18.5	11 17	3 49.55	-15 46.9	2.020	2.885	11.4	20.1
11 27	3 40.07	+19 5.1	1.546	2.527	3.0	18.6	11 27	3 41.14	-15 33.0	2.054	2.900	11.9	20.2
12 7	3 30.85	+19 1.4	1.584	2.533	7.6	18.9	12 7	3 33.55	-14 50.4	2.111	2.915	13.2	20.3
12 17	3 23.60	+19 1.5	1.649	2.539	11.8	19.1	12 17	3 27.49	-13 42.6	2.189	2.930	14.7	20.5
12 27	3 19.04	+19 8.1	1.736	2.545	15.3	19.4	12 27	3 23.47	-12 14.5	2.287	2.945	16.2	20.6
127693	2003 EG ₂₀	11 20.9	178°99'	0°1'/20.9	18 R		307500	2002 XN ₁₁₈	11 20.9	14°22'	1°6'/19.9	18	
10 18	4 15.02	+21 30.4	1.965	2.795	13.5	21.0	10 18	4 10.16	+19 57.7	1.649	2.499	14.7	20.6
10 28	4 8.75	+21 13.3	1.889	2.797	10.1	20.8	10 28	4 5.38	+18 49.2	1.581	2.501	10.9	20.4
11 7	4 0.23	+20 48.7	1.837	2.798	6.1	20.5	11 7	3 58.28	+17 31.1	1.537	2.503	6.5	20.1
11 17	3 50.27	+20 17.7	1.812	2.798	1.8	20.2	11 17	3 49.71	+16 8.1	1.519	2.505	2.2	19.9
11 27	3 39.95	+19 43.0	1.817	2.798	2.7	20.3	11 27	3 40.87	+14 46.6	1.530	2.508	3.8	20.0
12 7	3 30.42	+19 8.5	1.852	2.798	6.9	20.6	12 7	3 32.96	+13 33.5	1.568	2.511	8.3	20.3
12 17	3 22.64	+18 38.5	1.914	2.796	10.8	20.8	12 17	3 26.93	+12 34.6	1.632	2.514	12.4	20.5
12 27	3 17.30	+18 16.5	1.999	2.795	14.1	21.0	12 27	3 23.43	+11 53.1	1.718	2.518	15.8	20.7
225056	2007 GL ₇₃	11 20.9	290°03'	5°0'/17.9	18		485034	2009 WU ₂₃₂	11 20.9	323°80'	1°4'/20.5	17	
10 18	4 8.57	+7 8.2	2.125	2.968	12.1	20.0	10 18	4 13.87	+14 8.2	2.119	2.954	12.5	21.1
10 28	4 3.74	+6 12.6	2.054	2.963	9.3	19.8	10 28	4 7.82	+14 32.3	2.039	2.949	9.3	20.9
11 7	3 57.13	+5 20.0	2.007	2.958	6.6	19.7	11 7	3 59.69	+14 57.7	1.983	2.945	5.7	20.7
11 17	3 49.37	+4 35.0	1.988	2.953	5.0	19.6	11 17	3 50.14	+15 24.5	1.955	2.940	2.0	20.4
11 27	3 41.32	+4 1.9	1.997	2.949	6.1	19.6	11 27	3 40.14	+15 53.3	1.958	2.936	3.1	20.5
12 7	3 33.87	+3 43.8	2.034	2.944	8.8	19.8	12 7	3 30.73	+16 24.7	1.990	2.932	6.9	20.7
12 17	3 27.80	+3 42.1	2.096	2.940	11.7	20.0	12 17	3 22.81	+16 59.4	2.050	2.928	10.4	21.0
12 27	3 23.68	+3 56.4	2.180	2.936	14.3	20.1	12 27	3 17.09	+17 38.4	2.135	2.925	13.5	21.2
246730	2009 BP ₅₆	11 20.9	261°77'	1°3'/21.5	18		444622	2006 VR ₁₀₇	11 20.9	358°60'	3°4'/19.9	18	
10 18	4 13.99	+23 52.1	1.845	2.677	14.2	21.0	10 18	4 11.30	+11 36.7	1.391	2.253	16.2	19.9
10 28	4 8.34	+23 54.6	1.759	2.666	10.7	20.7	10 28	4 6.68	+11 40.9	1.326	2.250	12.2	19.6
11 7	4 0.19	+23 48.3	1.696	2.655	6.7	20.5	11 7	3 59.30	+11 48.5	1.283	2.247	7.7	19.3
11 17	3 50.30	+23 33.0	1.660	2.644	2.5	20.2	11 17	3 50.06	+12 2.1	1.263	2.246	3.7	19.1
11 27	3 39.84	+23 10.0	1.652	2.633	2.9	20.2	11 27	3 40.30	+12 23.6	1.270	2.246	5.0	19.2
12 7	3 30.09	+22 43.0	1.672	2.621	7.2	20.4	12 7	3 31.45	+12 54.6	1.303	2.247	9.5	19.5
12 17	3 22.15	+22 16.4	1.720	2.610	11.4	20.7	12 17	3 24.71	+13 35.4	1.360	2.249	13.9	19.7
12 27	3 16.85	+21 55.1	1.790	2.598	14.9	20.9	12 27	3 20.92	+14 25.8	1.438	2.252	17.6	20.0
300665	2007 UM ₁₃₀	11 20.9	25°72'	2°2'/20.5	18		135882	2002 TH ₄₆	11 20.9	55°80'	1°5'/20.2	18	
10 18	4 16.97	+12 15.0	1.347	2.202	17.1	19.9	10 18	4 11.47	+18 13.6	1.745	2.592	14.2	19.6
10 28	4 10.86	+12 57.5	1.291	2.211	12.8	19.6	10 28	4 6.22	+17 36.3	1.680	2.598	10.5	19.4
11 7	4 1.78	+13 44.7	1.257	2.221	7.8	19.4	11 7	3 58.74	+16 53.4	1.639	2.604	6.3	19.1
11 17	3 50.74	+14 36.1	1.248	2.233	2.9	19.1	11 17	3 49.85	+16 7.8	1.625	2.611	2.1	18.9
11 27	3 39.26	+15 30.9	1.266	2.245	4.2	19.2	11 27	3 40.68	+15 23.8	1.639	2.618	3.5	19.0
12 7	3 28.91	+16 28.4	1.311	2.258	9.1	19.6	12 7	3 32.40	+14 46.1	1.681	2.624	7.8	19.3
12 17	3 20.95	+17 28.2	1.381	2.272	13.6	19.9	12 17	3 25.94	+14 18.4	1.749	2.631	11.7	19.5
12 27	3 16.20	+18 30.7	1.473	2.286	17.3	20.1	12 27	3 21.94	+14 3.2	1.839	2.638	15.0	19.8
246840	2010 DW ₄₅	11 20.9	175°69'	2°8'/18.9	17		492844	2014 QL ₃₃₂	11 20.9	61°12'	5°7'/23.5	18	
10 18	4 6.98	+11 37.											

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
308303	2005 JG_{163}	11 20.9	32°57	1°1/20.5	18		454623	2014 QV_{126}	11 20.9	88°45	1°1/21.6	17	
10 18	4 13.00	+17 24.2	1.706	2.552	14.5	20.5	10 18	4 11.65	+24 38.3	2.198	3.022	12.4	21.7
10 28	4 7.50	+17 22.0	1.639	2.556	10.7	20.3	10 28	4 6.02	+24 25.6	2.131	3.035	9.3	21.5
11 7	3 59.60	+17 16.6	1.595	2.560	6.5	20.0	11 7	3 58.49	+24 4.3	2.089	3.047	5.8	21.3
11 17	3 50.13	+17 9.2	1.577	2.564	2.0	19.8	11 17	3 49.80	+23 35.1	2.074	3.059	2.1	21.1
11 27	3 40.29	+17 2.0	1.588	2.568	3.3	19.9	11 27	3 40.90	+23 0.2	2.089	3.070	2.4	21.1
12 7	3 31.29	+16 58.0	1.626	2.572	7.7	20.2	12 7	3 32.76	+22 23.3	2.134	3.082	6.0	21.4
12 17	3 24.17	+16 59.8	1.691	2.577	11.7	20.4	12 17	3 26.18	+21 48.2	2.207	3.094	9.3	21.6
12 27	3 19.65	+17 9.5	1.778	2.582	15.2	20.6	12 27	3 21.72	+21 18.8	2.304	3.105	12.2	21.8
409415	2005 GL_{178}	11 20.9	329°23	5°3/21.7	17		161945	2007 GP_{21}	11 20.9	256°86	0°9/20.5	18	
10 18	4 19.86	+28 12.4	1.803	2.617	15.2	19.6	10 18	4 13.83	+19 26.5	1.722	2.564	14.6	21.2
10 28	4 13.46	+29 59.1	1.705	2.594	12.1	19.4	10 28	4 8.29	+19 1.0	1.637	2.552	10.9	21.0
11 7	4 3.81	+31 42.1	1.630	2.572	8.6	19.1	11 7	4 0.21	+18 28.4	1.575	2.539	6.6	20.7
11 17	3 51.53	+33 14.6	1.583	2.551	5.8	18.9	11 17	3 50.37	+17 50.6	1.540	2.526	2.0	20.4
11 27	3 37.87	+34 30.4	1.565	2.530	5.9	18.9	11 27	3 39.96	+17 11.1	1.533	2.513	3.3	20.5
12 7	3 24.50	+35 27.0	1.576	2.510	9.0	19.0	12 7	3 30.30	+16 34.5	1.554	2.500	8.1	20.7
12 17	3 13.05	+36 6.1	1.614	2.492	12.7	19.2	12 17	3 22.50	+16 5.7	1.601	2.486	12.4	20.9
12 27	3 4.79	+36 33.2	1.674	2.474	16.2	19.4	12 27	3 17.39	+15 48.2	1.671	2.472	16.1	21.2
511838	2015 FH_{312}	11 20.9	208°33	1°8/20.4	18		120181	2003 UR_{292}	11 20.9	16°93	0°1/20.3	17	
10 18	4 16.80	+15 39.8	1.526	2.373	15.9	21.1	10 18	3 50.17	+17 13.4	26.255	27.083	1.2	21.4
10 28	4 10.64	+15 39.6	1.454	2.371	11.8	20.8	10 28	3 49.14	+17 9.6	26.176	27.085	0.9	21.4
11 7	4 1.66	+15 37.7	1.405	2.369	7.2	20.5	11 7	3 47.99	+17 5.6	26.125	27.087	0.5	21.4
11 17	3 50.77	+15 35.6	1.382	2.367	2.5	20.2	11 17	3 46.77	+17 1.6	26.104	27.089	0.2	21.3
11 27	3 39.32	+15 35.5	1.386	2.365	3.9	20.3	11 27	3 45.53	+16 57.6	26.113	27.092	0.3	21.3
12 7	3 28.79	+15 40.2	1.418	2.363	8.8	20.6	12 7	3 44.33	+16 54.0	26.153	27.094	0.6	21.4
12 17	3 20.43	+15 52.1	1.476	2.360	13.3	20.9	12 17	3 43.20	+16 50.7	26.223	27.096	1.0	21.4
12 27	3 15.05	+16 13.2	1.555	2.357	17.1	21.1	12 27	3 42.21	+16 48.1	26.320	27.098	1.3	21.4
134487	1998 XF_4	11 20.9	40°13	1°3/20.3	18		327785	2006 UL_{184}	11 20.9	60°93	4°5/23.1	18	
10 18	4 11.76	+18 18.9	1.625	2.475	14.9	20.3	10 18	4 18.93	+31 46.3	1.249	2.080	19.6	19.8
10 28	4 6.59	+17 50.8	1.563	2.482	11.0	20.0	10 28	4 12.51	+31 42.9	1.204	2.104	15.2	19.6
11 7	3 59.04	+17 17.3	1.524	2.489	6.6	19.8	11 7	4 2.75	+31 18.0	1.179	2.129	10.3	19.4
11 17	3 49.97	+16 40.9	1.510	2.496	2.1	19.5	11 17	3 51.03	+30 30.7	1.178	2.154	5.7	19.2
11 27	3 40.60	+16 5.7	1.525	2.504	3.5	19.6	11 27	3 39.23	+29 24.8	1.202	2.179	5.0	19.2
12 7	3 32.17	+15 36.0	1.567	2.512	8.0	19.9	12 7	3 29.16	+28 9.2	1.253	2.204	8.9	19.5
12 17	3 25.69	+15 15.6	1.634	2.521	12.1	20.2	12 17	3 22.05	+26 53.9	1.328	2.229	13.2	19.8
12 27	3 21.81	+15 7.0	1.724	2.530	15.5	20.4	12 27	3 18.51	+25 47.7	1.424	2.254	17.0	20.1
267307	2001 SJ_{251}	11 20.9	96°11	2°8/22.0	18		332026	2001 TT_{41}	11 20.9	349°16	8°2/23.1	18	
10 18	4 18.15	+26 28.8	1.608	2.436	16.1	20.1	10 18	4 4.80	+31 33.2	0.914	1.786	21.8	18.5
10 28	4 11.56	+26 54.5	1.545	2.448	12.3	19.9	10 28	4 3.71	+32 51.7	0.847	1.767	17.6	18.2
11 7	4 2.14	+27 9.0	1.505	2.459	8.0	19.7	11 7	3 58.52	+33 52.5	0.797	1.751	13.1	17.9
11 17	3 50.88	+27 10.2	1.490	2.471	3.8	19.5	11 17	3 50.08	+34 27.5	0.766	1.737	9.1	17.6
11 27	3 39.21	+26 58.8	1.504	2.483	3.8	19.5	11 27	3 40.35	+34 32.0	0.755	1.726	8.6	17.6
12 7	3 28.65	+26 38.5	1.545	2.494	7.8	19.8	12 7	3 31.79	+34 8.9	0.764	1.718	12.2	17.7
12 17	3 20.38	+26 14.7	1.613	2.505	11.9	20.1	12 17	3 26.51	+33 27.4	0.792	1.713	17.1	18.0
12 27	3 15.18	+25 53.2	1.703	2.516	15.4	20.3	12 27	3 25.83	+32 39.9	0.837	1.711	21.7	18.2
12760	Maxwell	11 20.9	68°97	3°9/18.6	18		331962	2004 XA_{34}	11 20.9	304°04	2°4/19.9	17	
10 18	4 9.11	+10 42.6	2.103	2.947	12.2	18.2	10 18	4 11.04	+12 56.2	2.059	2.901	12.5	20.6
10 28	4 4.07	+9 47.3	2.042	2.956	9.1	18.0	10 28	4 5.86	+12 51.5	1.971	2.885	9.4	20.4
11 7	3 57.29	+8 52.9	2.007	2.965	6.0	17.8	11 7	3 58.60	+12 47.6	1.906	2.868	5.8	20.2
11 17	3 49.44	+8 3.4	1.999	2.974	3.9	17.7	11 17	3 49.91	+12 46.1	1.869	2.852	2.7	19.9
11 27	3 41.41	+7 23.2	2.021	2.983	5.1	17.8	11 27	3 40.70	+12 49.3	1.861	2.836	3.9	20.0
12 7	3 34.08	+6 55.3	2.070	2.992	8.0	18.0	12 7	3 32.02	+12 59.2	1.882	2.820	7.5	20.2
12 17	3 28.19	+6 41.8	2.146	3.002	11.0	18.2	12 17	3 24.78	+13 17.0	1.930	2.804	11.1	20.4
12 27	3 24.27	+6 42.8	2.245	3.011	13.6	18.4	12 27	3 19.70	+13 43.9	2.000	2.789	14.3	20.5
440078	2002 TP_{18}	11 20.9	26°49	6°5/17.3	18		520342	2014 GH_{62}	11 20.9	157°43	3°6/22.5	18	
10 18	4 9.10	+8 38.6	1.494	2.355	15.4	20.2	10 18	4 16.75	+29 9.5	1.969	2.780	14.2	21.9
10 28	4 4.63	+7 0.7	1.442	2.361	11.7	20.0	10 28	4 10.30	+29 42.3	1.892	2.783	11.0	21.7
11 7	3 57.83	+5 25.1	1.413	2.369	8.2	19.8	11 7	4 1.35	+30 4.0	1.840	2.785	7.5	21.5
11 17	3 49.62	+3 59.9	1.410	2.377	6.5	19.7	11 17	3 50.70	+30 12.2	1.813	2.788	4.3	21.3
11 27	3 41.18	+2 53.0	1.433	2.385	8.0	19.8	11 27	3 39.54	+30 6.4	1.816	2.790	4.1	21.3
12 7	3 33.72	+2 9.6	1.481	2.394	11.3	20.0	12 7	3 29.19	+29 49.4	1.848	2.792	7.1	21.5
12 17	3 28.17	+1 51.4	1.553	2.404	14.7	20.3	12 17	3 20.74	+29 25.8	1.907	2.794	10.6	21.7
12 27	3 25.14	+1 57.1	1.644	2.414	17.7	20.5	12 27	3 14.97	+29 1.2	1.989	2.795	13.7	21.9
189938	2003 SS_{275}	11 20.9	92°91	3°3/18.8	18		328027	2007 KU_2	11 20.9	158°94	1°9/22.3	18	
10 18	4 8.89	+11 43.9	2.293	3.134	11.4	20.1	10 18	4 10.90	+28 27.0	2.496	3.306	11.6	21.0
10 28	4 3.80	+10 53.5	2.230	3.143	8.5	19.9	10 28	4 5.36	+28 3.7	2.416	3.309	8.8	20.8
11 7	3 57.09	+10 3.2	2.192	3.151	5.5	19.7	11 7	3 58.08	+27 29.4	2.361	3.312	5.7	20.6
11 17	3 49.39	+9 16.4	2.183	3.160	3.4	19.6	11 17	3 49.71	+26 44.7	2.334	3.314	2.7	20.4
11 27	3 41.51	+8 37.0	2.203	3.168	4.5	19.7	11 27	3 41.11	+25 51.8	2.337	3.316	2.5	20.4
12 7	3 34.27	+8 8.0	2.252	3.176	7.3	19.9	12 7	3 33.17	+24 54.7	2.371	3.318	5.5	20.6
12 17	3 28.37	+7 51.3	2.328	3.185	10.2	20.1	12 17	3 26.64	+23 57.8	2.433	3.320	8.6	20.8
12 27	3 24.29	+7 47.7	2.427	3.193	12.7	20.3	12 27	3 22.07	+23 5.6	2.521	3.322	11.3	21.0
165921	2001 TQ_{132}	11 20.9	89°65	1°9/19.5	18		341950	2008 PT_4	11 20.9	73°56	0°9/21.3	17	
10 18	4 8.11	+16 17.6	2.512	3.349	10.7	19.6	10 18	4 18.49	+22 8.4	1.500	2.338	16.5	21.0
10 28	4 3.12	+15 21.5	2.445	3.358	7.9	19.4	10 28	4 11.64	+22 18.9	1.451	2.363	12.3	20.8
11 7	3 56.63	+14 21.9	2.404	3.367	4.8	19.2	11 7	4 2.06	+22 21.0	1.426	2.387	7.5	20.6
11 17	3 49.25	+13 22.0	2.392	3.376	2.1	19.1	11 17	3 50.85	+22 14.8	1.426	2.411	2.4	20.3
11 27	3 41.73	+12 25.7	2.411	3.384	3.3	19.2	11 27	3 39.47	+22 2.0	1.454	2.435	3.1	20.5
12 7	3 34.81	+11 36.5	2.460	3.393	6.3	19.4	12 7	3 29.37	+21 46.7	1.509	2.459	7.8	20.8
12 17	3 29.12	+10 57.3	2.536	3.402	9.1	19.6	12 17	3 21.65	+21 33.2	1.591	2.483	12.0	21.1
12 27	3 25.14	+10 29.9	2.637	3.411	11.6	19.8	12 27	3 16.96	+21 25.6</				

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
190263	2007 <i>MF</i> ₄		11 20.9 16°04'	3°4/19.5	18		168737	2000 <i>QT</i> ₃₂		11 20.9 92°77'	4°6/19.5	18	
10 18	4 10.93	+10 0.7	2.043	2.885	12.6	19.4	10 18	4 18.93	+9 57.4	1.376	2.226	17.1	19.7
10 28	4 5.58	+9 49.9	1.974	2.887	9.5	19.2	10 28	4 11.99	+9 31.7	1.330	2.246	12.8	19.5
11 7	3 58.31	+9 42.1	1.930	2.889	6.1	19.0	11 7	4 2.31	+9 10.0	1.306	2.265	8.3	19.3
11 17	3 49.80	+9 39.5	1.913	2.891	3.6	18.9	11 17	3 50.98	+8 56.2	1.307	2.285	4.8	19.2
11 27	3 40.98	+9 44.6	1.925	2.893	4.6	18.9	11 27	3 39.49	+8 54.0	1.335	2.304	6.2	19.3
12 7	3 32.82	+9 58.9	1.965	2.896	7.8	19.1	12 7	3 29.31	+9 5.4	1.390	2.322	10.2	19.6
12 17	3 26.15	+10 23.0	2.031	2.898	11.0	19.3	12 17	3 21.53	+9 31.0	1.469	2.340	14.2	19.9
12 27	3 21.59	+10 57.1	2.121	2.901	13.9	19.5	12 27	3 16.80	+10 9.7	1.569	2.358	17.6	20.2
303131	2004 <i>CF</i> ₉₂		11 20.9 341°10'	0°1/21.0	17		146661	2001 <i>UW</i> ₁₂₉		11 20.9 170°50'	1°1/20.5	18	
10 18	4 7.35	+23 3.3	1.293	2.157	17.1	20.1	10 18	4 15.29	+18 19.8	1.915	2.749	13.6	20.8
10 28	4 4.19	+22 27.7	1.216	2.141	12.9	19.8	10 28	4 8.99	+17 58.4	1.842	2.753	10.1	20.6
11 7	3 58.05	+21 38.1	1.159	2.127	7.9	19.5	11 7	4 0.45	+17 31.9	1.793	2.756	6.1	20.3
11 17	3 49.82	+20 37.0	1.127	2.113	2.3	19.1	11 17	3 50.48	+17 2.3	1.772	2.758	1.9	20.1
11 27	3 40.94	+19 29.8	1.119	2.102	3.5	19.2	11 27	3 40.16	+16 32.5	1.781	2.760	3.1	20.2
12 7	3 32.99	+18 24.3	1.137	2.091	9.1	19.5	12 7	3 30.65	+16 6.2	1.818	2.761	7.3	20.4
12 17	3 27.30	+17 28.4	1.178	2.082	14.2	19.8	12 17	3 22.90	+15 47.0	1.883	2.762	11.2	20.7
12 27	3 24.78	+16 47.9	1.239	2.074	18.6	20.0	12 27	3 17.58	+15 37.5	1.971	2.762	14.4	20.9
425563	2010 <i>RH</i> ₁₆₅		11 20.9 36°31'	3°7/22.0	18		97530	2000 <i>DB</i> ₂₈		11 20.9 183°98'	0°6/20.6	18	
10 18	4 17.49	+25 38.7	1.018	1.879	20.9	20.1	10 18	4 9.62	+18 51.1	2.756	3.584	10.1	20.5
10 28	4 12.17	+26 23.8	0.973	1.892	16.0	19.9	10 28	4 4.25	+18 32.1	2.676	3.584	7.5	20.3
11 7	4 2.96	+26 55.1	0.946	1.907	10.3	19.6	11 7	3 57.39	+18 9.2	2.622	3.583	4.5	20.2
11 17	3 51.20	+27 9.1	0.941	1.923	4.9	19.4	11 17	3 49.57	+17 43.8	2.597	3.583	1.3	19.9
11 27	3 38.98	+27 6.0	0.959	1.939	4.9	19.5	11 27	3 41.51	+17 17.8	2.603	3.582	2.2	20.0
12 7	3 28.46	+26 50.8	1.002	1.957	10.0	19.8	12 7	3 33.96	+16 53.9	2.639	3.581	5.4	20.2
12 17	3 21.19	+26 31.2	1.067	1.975	15.0	20.2	12 17	3 27.55	+16 34.3	2.704	3.579	8.3	20.4
12 27	3 18.00	+26 14.8	1.151	1.994	19.3	20.5	12 27	3 22.79	+16 21.1	2.794	3.578	10.8	20.6
163798	2003 <i>QU</i> ₆₄		11 20.9 66°62'	3°3/22.1	18		130087	1999 <i>WA</i> ₂₅		11 20.9 93°86'	2°2/20.2	18	
10 18	4 19.47	+26 29.8	1.610	2.435	16.2	19.4	10 18	4 17.26	+13 7.4	1.823	2.659	14.1	19.8
10 28	4 12.52	+27 19.4	1.555	2.455	12.4	19.2	10 28	4 10.35	+13 15.9	1.766	2.677	10.5	19.6
11 7	4 2.73	+27 58.4	1.523	2.475	8.1	19.0	11 7	4 1.20	+13 25.5	1.734	2.695	6.4	19.4
11 17	3 51.11	+28 23.7	1.517	2.495	4.2	18.9	11 17	3 50.68	+13 37.2	1.729	2.712	2.7	19.2
11 27	3 39.13	+28 34.6	1.539	2.515	4.1	18.9	11 27	3 39.92	+13 52.4	1.754	2.730	3.8	19.4
12 7	3 28.31	+28 34.0	1.589	2.535	7.8	19.2	12 7	3 30.10	+14 12.5	1.807	2.747	7.7	19.6
12 17	3 19.83	+28 26.5	1.665	2.555	11.7	19.5	12 17	3 22.16	+14 38.4	1.888	2.763	11.3	19.9
12 27	3 14.45	+28 18.0	1.764	2.575	15.0	19.7	12 27	3 16.73	+15 10.9	1.992	2.779	14.4	20.1
119888	2002 <i>CP</i> ₂₅₄		11 20.9 147°77'	1°4/20.2	18		45463	2000 <i>AL</i> ₁₉₈		11 20.9 180°35'	6°7/16.4	18	
10 18	4 11.19	+16 59.7	2.117	2.955	12.4	20.4	10 18	4 8.21	-0 16.6	2.442	3.268	11.3	19.0
10 28	4 5.77	+16 39.2	2.044	2.957	9.1	20.2	10 28	4 3.27	-1 21.1	2.380	3.268	9.2	18.9
11 7	3 58.44	+16 15.3	1.995	2.958	5.5	20.0	11 7	3 56.82	-2 17.8	2.343	3.268	7.4	18.8
11 17	3 49.87	+15 50.0	1.974	2.960	1.9	19.8	11 17	3 49.41	-3 2.0	2.333	3.268	6.7	18.7
11 27	3 40.99	+15 26.0	1.983	2.961	3.1	19.9	11 27	3 41.79	-3 29.7	2.351	3.268	7.5	18.8
12 7	3 32.79	+15 6.5	2.021	2.963	6.8	20.1	12 7	3 34.72	-3 38.9	2.396	3.268	9.4	18.9
12 17	3 26.08	+14 54.0	2.086	2.964	10.3	20.3	12 17	3 28.85	-3 29.4	2.466	3.268	11.5	19.0
12 27	3 21.48	+14 50.5	2.175	2.965	13.2	20.5	12 27	3 24.66	-3 2.7	2.557	3.267	13.5	19.2
118045	3258 <i>T</i> ₋₂		11 20.9 274°62'	5°7/23.8	18		191202	2002 <i>PJ</i> ₈₂		11 20.9 23°90'	7°0/17.2	18	
10 18	4 15.45	+37 15.2	2.487	3.258	12.7	19.3	10 18	4 7.96	+2 19.1	1.905	2.749	13.3	18.5
10 28	4 9.29	+38 6.4	2.394	3.247	10.5	19.1	10 28	4 3.41	+1 15.4	1.853	2.755	10.5	18.3
11 7	4 0.79	+38 44.8	2.323	3.236	8.1	18.9	11 7	3 57.01	+0 20.1	1.824	2.763	8.1	18.2
11 17	3 50.62	+39 6.7	2.280	3.224	6.2	18.8	11 17	3 49.48	-0 21.5	1.820	2.770	7.0	18.1
11 27	3 39.80	+39 10.3	2.265	3.212	5.8	18.8	11 27	3 41.74	-0 44.8	1.844	2.779	8.0	18.2
12 7	3 29.50	+38 56.9	2.278	3.201	7.3	18.8	12 7	3 34.74	-0 47.5	1.893	2.787	10.3	18.4
12 17	3 20.77	+38 30.3	2.319	3.189	9.7	19.0	12 17	3 29.23	-0 30.0	1.967	2.797	12.9	18.6
12 27	3 14.44	+37 56.3	2.384	3.177	12.1	19.1	12 27	3 25.79	+0 5.8	2.061	2.806	15.3	18.8
245252	2004 <i>YZ</i> ₂₆		11 20.9 336°11'	6°5/18.6	18		422468	2014 <i>SB</i> ₃₁₈		11 20.9 359°77'	1°9/19.9	18	
10 18	4 10.24	+6 44.9	1.388	2.249	16.3	19.5	10 18	4 8.20	+16 41.1	1.851	2.701	13.3	20.5
10 28	4 5.96	+6 3.5	1.318	2.238	12.6	19.3	10 28	4 3.82	+16 4.9	1.780	2.700	9.9	20.3
11 7	3 58.96	+5 28.2	1.270	2.227	8.9	19.1	11 7	3 57.38	+15 24.6	1.734	2.699	6.0	20.0
11 17	3 50.10	+5 4.7	1.246	2.216	6.5	18.9	11 17	3 49.61	+14 43.3	1.714	2.698	2.3	19.8
11 27	3 40.66	+4 58.7	1.247	2.207	7.9	19.0	11 27	3 41.51	+14 5.1	1.722	2.699	3.7	19.9
12 7	3 32.06	+5 13.0	1.272	2.198	11.5	19.1	12 7	3 34.15	+13 33.9	1.758	2.700	7.6	20.1
12 17	3 25.49	+5 48.1	1.321	2.191	15.5	19.4	12 17	3 28.38	+13 13.0	1.819	2.701	11.3	20.4
12 27	3 21.80	+6 41.9	1.389	2.184	19.1	19.6	12 27	3 24.86	+13 4.4	1.903	2.703	14.5	20.6
164048	2003 <i>UO</i> ₂₉₈		11 20.9 171°15'	1°8/21.9	18		512454	2016 <i>QM</i> ₂₉		11 20.9 42°57'	3°4/20.0	18	
10 18	4 15.42	+25 54.1	2.222	3.036	12.7	20.8	10 18	4 15.38	+12 57.4	1.219	2.082	18.0	20.6
10 28	4 8.95	+25 57.3	2.143	3.040	9.6	20.6	10 28	4 9.82	+12 47.1	1.169	2.094	13.4	20.3
11 7	4 0.38	+25 51.4	2.089	3.043	6.1	20.4	11 7	4 1.23	+12 38.3	1.141	2.106	8.3	20.1
11 17	3 50.45	+25 35.8	2.063	3.045	2.6	20.2	11 17	3 50.73	+12 33.7	1.136	2.120	3.8	19.9
11 27	3 40.17	+25 12.0	2.067	3.047	2.7	20.2	11 27	3 39.91	+12 36.8	1.157	2.133	5.3	20.0
12 7	3 30.60	+24 42.9	2.102	3.048	6.2	20.4	12 7	3 30.39	+12 50.0	1.204	2.148	10.1	20.3
12 17	3 22.66	+24 12.7	2.164	3.049	9.6	20.6	12 17	3 23.39	+13 14.6	1.274	2.162	14.6	20.6
12 27	3 17.01	+23 45.6	2.251	3.049	12.6	20.8	12 27	3 19.66	+13 50.7	1.363	2.178	18.4	20.9
1810	Epimetheus		11 20.9 325°75'	1°0/21.4	18		149000	2001 <i>YM</i> ₁₃₀		11 20.9 253°72'	3°9/2		

EPHEMERIDES

11 20.9

11 20.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
410911	2009 <i>SX</i> ₁₆₉		11 20.9	3°62	3°3/19.5	18	214665	2006 <i>SF</i> ₁₂₈		11 20.9	34°78	1°2/20.5	18
10 18	4 8.16	+13 18.2	1.577	2.437	14.7	20.2	10 18	4 13.05	+16 58.2	1.577	2.428	15.2	20.0
10 28	4 4.06	+12 45.8	1.513	2.436	11.0	20.0	10 28	4 7.68	+16 56.6	1.518	2.436	11.3	19.7
11 7	3 57.64	+12 12.8	1.472	2.437	6.9	19.8	11 7	3 59.81	+16 52.2	1.481	2.446	6.8	19.5
11 17	3 49.71	+11 42.9	1.456	2.438	3.5	19.6	11 17	3 50.35	+16 46.4	1.469	2.456	2.2	19.2
11 27	3 41.41	+11 20.6	1.468	2.441	4.9	19.7	11 27	3 40.55	+16 41.5	1.486	2.466	3.4	19.4
12 7	3 33.95	+11 9.3	1.505	2.444	8.9	19.9	12 7	3 31.71	+16 40.4	1.529	2.476	8.0	19.7
12 17	3 28.31	+11 11.1	1.567	2.449	12.8	20.2	12 17	3 24.88	+16 45.6	1.599	2.488	12.1	19.9
12 27	3 25.17	+11 26.9	1.650	2.455	16.2	20.4	12 27	3 20.76	+16 59.1	1.690	2.499	15.6	20.2
266391	2007 <i>ET</i> ₁₃₉		11 20.9	173°16	0°7/20.6	18	10608	Mameta		11 20.9	359°37	2°2/19.7	18
10 18	4 10.89	+18 45.2	2.507	3.336	11.0	21.4	10 18	4 5.71	+14 45.6	2.129	2.978	11.9	16.5
10 28	4 5.33	+18 29.2	2.430	3.338	8.1	21.2	10 28	4 1.77	+14 17.1	2.057	2.976	8.8	16.3
11 7	3 58.10	+18 9.3	2.378	3.340	4.9	21.0	11 7	3 56.07	+13 47.0	2.010	2.974	5.4	16.1
11 17	3 49.81	+17 46.6	2.355	3.341	1.4	20.8	11 17	3 49.26	+13 17.8	1.990	2.973	2.4	15.9
11 27	3 41.26	+17 23.4	2.362	3.342	2.4	20.9	11 27	3 42.15	+12 52.7	1.998	2.973	3.6	16.0
12 7	3 33.27	+17 2.2	2.400	3.342	5.8	21.1	12 7	3 35.64	+12 34.8	2.035	2.974	6.9	16.2
12 17	3 26.57	+16 45.6	2.466	3.343	8.9	21.3	12 17	3 30.47	+12 26.1	2.098	2.976	10.2	16.4
12 27	3 21.69	+16 35.8	2.556	3.343	11.6	21.5	12 27	3 27.20	+12 27.9	2.184	2.978	13.1	16.6
24500	2001 <i>AX</i> ₃₃		11 20.9	133°77	3°2/19.5	18	422389	2014 <i>SC</i> ₂₆₇		11 20.9	53°19	2°9/19.1	18
10 18	4 15.07	+10 31.9	2.234	3.063	12.1	19.2	10 18	4 10.31	+15 23.5	1.929	2.775	13.1	20.3
10 28	4 8.38	+10 14.5	2.172	3.078	9.0	19.0	10 28	4 4.99	+14 8.4	1.883	2.800	9.6	20.1
11 7	3 59.90	+9 59.1	2.136	3.093	5.8	18.9	11 7	3 57.86	+12 50.7	1.862	2.825	5.9	20.0
11 17	3 50.31	+9 47.9	2.129	3.107	3.3	18.7	11 17	3 49.72	+11 35.2	1.870	2.851	3.0	19.8
11 27	3 40.55	+9 43.3	2.152	3.120	4.3	18.8	11 27	3 41.55	+10 27.3	1.906	2.876	4.4	20.0
12 7	3 31.52	+9 47.0	2.205	3.132	7.3	19.0	12 7	3 34.29	+9 31.7	1.971	2.902	7.7	20.2
12 17	3 24.00	+9 59.9	2.286	3.144	10.3	19.2	12 17	3 28.64	+8 51.3	2.063	2.928	10.9	20.5
12 27	3 18.52	+10 22.4	2.391	3.155	12.9	19.4	12 27	3 25.09	+8 27.3	2.177	2.954	13.7	20.7
181360	2006 <i>RF</i> ₇₆		11 20.9	328°05	5°1/22.8	17	226435	2003 <i>SY</i> ₃₀		11 20.9	17°59	2°6/22.2	18
10 18	4 13.74	+30 36.4	1.566	2.392	16.5	19.9	10 18	4 11.63	+27 4.2	1.876	2.704	14.1	19.7
10 28	4 8.95	+31 25.1	1.481	2.377	13.1	19.6	10 28	4 6.53	+27 18.7	1.806	2.708	10.8	19.5
11 7	4 1.04	+32 1.1	1.417	2.362	9.3	19.3	11 7	3 59.11	+27 22.8	1.759	2.713	7.1	19.3
11 17	3 50.81	+32 20.0	1.377	2.349	5.9	19.1	11 17	3 50.17	+27 15.3	1.737	2.718	3.4	19.1
11 27	3 39.67	+32 20.1	1.364	2.335	5.6	19.1	11 27	3 40.84	+26 57.5	1.744	2.723	3.3	19.1
12 7	3 29.29	+32 3.6	1.377	2.323	8.8	19.2	12 7	3 32.32	+26 32.6	1.779	2.729	6.8	19.3
12 17	3 21.15	+31 36.2	1.414	2.311	12.9	19.4	12 17	3 25.60	+26 5.2	1.841	2.736	10.5	19.6
12 27	3 16.29	+31 5.4	1.474	2.300	16.6	19.6	12 27	3 21.39	+25 40.1	1.926	2.743	13.7	19.8
290439	2005 <i>TL</i> ₁₁₆		11 20.9	7°35	3°1/22.5	18	294230	2007 <i>UK</i> ₂₇		11 20.9	79°72	4°6/18.9	18
10 18	4 13.00	+28 29.0	1.864	2.687	14.4	20.9	10 18	4 12.62	+9 47.1	1.700	2.548	14.4	20.8
10 28	4 7.62	+28 43.5	1.789	2.687	11.1	20.7	10 28	4 7.08	+9 2.9	1.642	2.557	10.9	20.6
11 7	3 59.81	+28 46.1	1.737	2.687	7.4	20.5	11 7	3 59.34	+8 21.2	1.608	2.565	7.2	20.4
11 17	3 50.36	+28 35.6	1.710	2.688	3.9	20.3	11 17	3 50.21	+7 46.3	1.599	2.574	4.7	20.3
11 27	3 40.46	+28 12.7	1.712	2.689	3.7	20.3	11 27	3 40.83	+7 22.8	1.619	2.583	5.9	20.4
12 7	3 31.38	+27 41.1	1.742	2.691	7.0	20.5	12 7	3 32.34	+7 13.7	1.666	2.592	9.3	20.6
12 17	3 24.18	+27 5.8	1.798	2.692	10.7	20.7	12 17	3 25.67	+7 20.2	1.738	2.600	12.8	20.8
12 27	3 19.59	+26 32.5	1.878	2.694	14.0	20.9	12 27	3 21.44	+7 41.9	1.831	2.609	15.8	21.1
128617	2004 <i>QB</i> ₂₅		11 20.9	93°11	2°4/20.9	17	204016	2003 <i>UW</i> ₄₁		11 20.9	20°65	1°5/20.3	18
10 18	4 30.62	+9 42.3	1.032	1.881	21.6	19.2	10 18	4 12.28	+18 5.5	1.634	2.483	14.9	20.5
10 28	4 22.10	+11 7.1	0.973	1.889	16.4	18.9	10 28	4 7.10	+17 34.5	1.565	2.484	11.0	20.2
11 7	4 9.21	+12 45.5	0.935	1.897	10.1	18.6	11 7	3 59.49	+16 57.9	1.520	2.485	6.6	20.0
11 17	3 53.18	+14 33.4	0.920	1.905	3.7	18.3	11 17	3 50.28	+16 18.4	1.501	2.487	2.2	19.7
11 27	3 36.24	+16 24.7	0.934	1.914	5.0	18.4	11 27	3 40.71	+15 40.2	1.510	2.489	3.6	19.8
12 7	3 20.87	+18 13.3	0.974	1.922	11.3	18.8	12 7	3 32.02	+15 7.8	1.546	2.491	8.1	20.1
12 17	3 9.04	+19 56.1	1.039	1.929	17.0	19.1	12 17	3 25.26	+14 45.2	1.607	2.493	12.3	20.4
12 27	3 1.82	+21 33.6	1.123	1.937	21.6	19.4	12 27	3 21.14	+14 35.2	1.691	2.495	15.8	20.6
347387	2012 <i>RL</i> ₂₉		11 20.9	82°51	0°8/20.6	18	220844	2004 <i>VY</i> ₅		11 20.9	331°26	1°4/20.3	17
10 18	4 17.15	+19 22.2	1.560	2.402	15.8	20.9	10 18	4 8.96	+17 40.1	1.741	2.593	14.0	19.5
10 28	4 10.50	+19 1.5	1.511	2.426	11.6	20.7	10 28	4 4.70	+17 18.9	1.658	2.578	10.4	19.2
11 7	4 1.36	+18 34.6	1.486	2.450	6.9	20.5	11 7	3 58.11	+16 53.0	1.598	2.564	6.3	18.9
11 17	3 50.74	+18 3.6	1.487	2.473	2.0	20.3	11 17	3 49.92	+16 24.6	1.564	2.550	2.1	18.6
11 27	3 40.02	+17 32.2	1.516	2.497	3.3	20.4	11 27	3 41.20	+15 57.1	1.558	2.537	3.5	18.7
12 7	3 30.52	+17 4.7	1.574	2.520	7.9	20.8	12 7	3 33.14	+15 34.3	1.579	2.525	7.9	19.0
12 17	3 23.22	+16 45.0	1.657	2.542	12.0	21.0	12 17	3 26.77	+15 19.9	1.625	2.513	12.0	19.2
12 27	3 18.72	+16 35.9	1.762	2.564	15.4	21.3	12 27	3 22.88	+15 16.6	1.694	2.503	15.6	19.4
120761	1998 <i>AX</i> ₁		11 20.9	346°06	0°6/21.4	18	5022	Roccapalumba		11 20.9	118°62	1°2/20.1	18
10 18	4 6.79	+22 56.4	2.336	3.170	11.5	19.7	10 18	4 9.40	+18 24.8	2.439	3.273	11.1	16.9
10 28	4 2.55	+22 47.4	2.252	3.162	8.6	19.5	10 28	4 4.20	+17 39.6	2.369	3.280	8.1	16.7
11 7	3 56.56	+22 31.5	2.193	3.154	5.3	19.2	11 7	3 57.41	+16 49.7	2.324	3.287	4.9	16.5
11 17	3 49.40	+22 9.6	2.161	3.146	1.8	19.0	11 17	3 49.64	+15 57.6	2.308	3.294	1.7	16.3
11 27	3 41.90	+21 43.6	2.158	3.139	2.2	19.0	11 27	3 41.69	+15 6.7	2.323	3.300	2.8	16.4
12 7	3 34.94	+21 16.4	2.184	3.133	5.8	19.2	12 7	3 34.37	+14 20.8	2.367	3.307	6.1	16.6
12 17	3 29.27	+20 51.1	2.237	3.127	9.1	19.4	12 17	3 28.34	+13 42.8	2.440	3.313	9.2	16.9
12 27	3 25.50	+20 31.0	2.315	3.122	12.0	19.6	12 27	3 24.12	+13 15.2	2.537	3.319	11.8	17.0
263608	2008 <i>FP</i> ₁₃₅		11 20.9	204°85	0°1/20.9	18	31597	Allisonmarie		11 20.9	257°41	2°7/19.6	18
10 18	4 11.18	+21 37.5	2.302	3.131	11.8	21.1	10 18	4 12.81	+15 45.9	1.668	2.516	14.6	18.5
10 28	4 5.72	+21 10.2	2.221	3.128	8.8	20.9	10 28	4 7.52	+14 57.3	1.590	2.508	10.9	18.3
11 7	3 58.42	+20 35.8	2.164	3.125	5.3	20.7	11 7	3 59.78	+14 3.9	1.536	2.500	6.7	18.0
11 17	3 49.93	+19 55.7	2.136	3.122	1.5	20.4	11 17	3 50.39	+13 9.5	1.508	2.492	3.0	17.8
11 27	3 41.14	+19 12.9	2.138	3.119	2.4	20.5	11 27	3 40.53	+12 19.4	1.509	2.483	4.6	17.9
12 7	3 32.97	+18 31.0	2.169	3.115	6.1	20.7	12 7	3 31.47	+11 38.9	1.537	2.475	8.9	18.1
12 17	3 26.22	+17 53.7	2.229	3.111	9.5	20.9	12 17	3 24.26	+11 12.0	1.590	2.466	13.0	18.3
12 27	3 21.48	+17 24.4	2.313	3.107	12.4	21							

EPHEMERIDES

11 20.9

11 21.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
170874	2004 <i>HS</i> ₃₇		11 20.9 270°30	2°3/20.1	18		297520	2001 <i>BC</i> ₇₉		11 20.9 236°94	1°4/21.8	18	
10 18	4 14.73	+12 49.7	2.036	2.871	12.9	19.8	10 18	4 14.11	+25 52.6	2.114	2.934	13.1	21.1
10 28	4 8.72	+12 54.4	1.943	2.853	9.7	19.6	10 28	4 8.23	+25 35.4	2.022	2.922	9.9	20.9
11 7	4 0.47	+13 0.5	1.874	2.835	6.1	19.3	11 7	4 0.13	+25 7.5	1.953	2.909	6.3	20.7
11 17	3 50.62	+13 9.3	1.834	2.817	2.7	19.1	11 17	3 50.52	+24 28.9	1.913	2.896	2.5	20.4
11 27	3 40.16	+13 22.4	1.823	2.798	3.8	19.1	11 27	3 40.43	+23 41.9	1.901	2.882	2.6	20.4
12 7	3 30.21	+13 41.4	1.841	2.779	7.6	19.3	12 7	3 31.00	+22 50.6	1.920	2.868	6.5	20.6
12 17	3 21.77	+14 7.4	1.887	2.760	11.4	19.5	12 17	3 23.19	+22 0.2	1.966	2.853	10.3	20.8
12 27	3 15.62	+14 41.3	1.956	2.741	14.7	19.7	12 27	3 17.74	+21 15.9	2.037	2.838	13.6	21.0
413308	2003 <i>UA</i> ₂₆₄		11 20.9 52°51	6°0/23.7	18		119043	2001 <i>HS</i> ₄		11 21.0 174°83	7°4/15.9	18	
10 18	4 18.49	+35 16.5	1.997	2.785	14.8	20.6	10 18	4 14.24	+4 3.1	1.905	2.739	13.7	19.4
10 28	4 11.70	+36 22.4	1.939	2.806	12.0	20.4	10 28	4 8.07	+2 6.1	1.843	2.742	10.8	19.2
11 7	4 2.27	+37 13.1	1.904	2.826	9.0	20.3	11 7	3 59.87	+0 13.3	1.808	2.744	8.3	19.1
11 17	3 51.11	+37 44.5	1.895	2.847	6.6	20.2	11 17	3 50.41	-1 27.2	1.800	2.746	7.4	19.0
11 27	3 39.53	+37 55.0	1.914	2.868	6.2	20.2	11 27	3 40.69	-2 47.7	1.821	2.747	8.8	19.1
12 7	3 28.89	+37 47.0	1.961	2.889	7.9	20.3	12 7	3 31.78	-3 43.5	1.870	2.747	11.3	19.3
12 17	3 20.35	+37 25.5	2.034	2.910	10.6	20.5	12 17	3 24.53	-4 13.0	1.943	2.747	14.1	19.4
12 27	3 14.65	+36 57.4	2.131	2.932	13.1	20.7	12 27	3 19.55	-4 17.7	2.035	2.746	16.5	19.6
395787	2012 <i>WT</i>		11 20.9 349°96	5°6/17.8	18		379946	2012 <i>MD</i> ₉		11 21.0 106°09	0°6/20.7	16	
10 18	4 7.05	+13 54.1	1.219	2.094	17.1	20.2	10 18	4 16.12	+21 13.3	1.542	2.384	16.0	21.5
10 28	4 3.82	+12 1.2	1.155	2.086	12.8	20.0	10 28	4 9.94	+20 30.8	1.483	2.397	11.8	21.3
11 7	3 57.76	+10 0.9	1.114	2.079	8.4	19.7	11 7	4 1.15	+19 38.8	1.446	2.410	7.1	21.0
11 17	3 49.83	+8 3.3	1.096	2.074	5.7	19.5	11 17	3 50.78	+18 40.2	1.436	2.423	2.0	20.7
11 27	3 41.45	+6 20.0	1.104	2.069	7.8	19.6	11 27	3 40.19	+17 40.2	1.455	2.435	3.3	20.9
12 7	3 34.10	+5 0.9	1.136	2.066	12.2	19.9	12 7	3 30.75	+16 45.1	1.501	2.447	8.2	21.2
12 17	3 28.96	+4 11.2	1.190	2.064	16.6	20.1	12 17	3 23.51	+16 0.2	1.573	2.459	12.5	21.5
12 27	3 26.79	+3 51.6	1.262	2.063	20.4	20.4	12 27	3 19.13	+15 29.4	1.667	2.470	16.1	21.7
212204	2005 <i>GZ</i> ₁₅₁		11 20.9 242°23	3°2/22.4	18		358731	2008 <i>CM</i> ₃₀		11 21.0 64°26	1°4/20.4	18	
10 18	4 16.20	+28 17.7	2.014	2.827	13.9	20.5	10 18	4 12.41	+17 8.1	1.854	2.697	13.6	21.4
10 28	4 10.03	+28 47.9	1.926	2.818	10.8	20.3	10 28	4 6.94	+16 52.4	1.787	2.702	10.1	21.2
11 7	4 1.34	+29 8.1	1.862	2.810	7.3	20.0	11 7	3 59.29	+16 33.4	1.744	2.708	6.1	20.9
11 17	3 50.89	+29 15.9	1.825	2.801	4.0	19.8	11 17	3 50.26	+16 12.7	1.728	2.713	2.0	20.7
11 27	3 39.81	+29 10.9	1.816	2.791	3.8	19.8	11 27	3 40.90	+15 53.3	1.740	2.719	3.3	20.8
12 7	3 29.38	+28 55.5	1.837	2.782	7.0	20.0	12 7	3 32.35	+15 38.4	1.781	2.725	7.3	21.1
12 17	3 20.75	+28 33.8	1.885	2.772	10.7	20.2	12 17	3 25.51	+15 30.7	1.848	2.730	11.1	21.3
12 27	3 14.72	+28 11.4	1.957	2.762	13.9	20.4	12 27	3 21.05	+15 32.3	1.938	2.736	14.3	21.5
333253	2012 <i>JE</i> ₆		11 20.9 164°90	7°9/16.3	18		475066	2005 <i>UH</i> ₁₂₈		11 21.0 327°23	0°7/21.2	18	
10 18	4 9.50	-6 34.5	2.531	3.334	11.6	20.5	10 18	4 12.80	+21 34.6	1.306	2.163	17.4	21.4
10 28	4 4.19	-7 21.1	2.472	3.335	9.8	20.4	10 28	4 8.39	+21 42.1	1.229	2.150	13.2	21.1
11 7	3 57.39	-7 55.4	2.438	3.337	8.4	20.3	11 7	4 0.76	+21 41.5	1.172	2.138	8.1	20.8
11 17	3 49.66	-8 13.2	2.430	3.338	7.9	20.3	11 17	3 50.80	+21 32.6	1.139	2.126	2.6	20.4
11 27	3 41.73	-8 11.5	2.449	3.339	8.6	20.4	11 27	3 40.02	+21 17.5	1.132	2.115	3.5	20.4
12 7	3 34.35	-7 49.4	2.494	3.340	10.1	20.5	12 7	3 30.14	+21 0.2	1.151	2.104	9.1	20.7
12 17	3 28.17	-7 8.1	2.564	3.340	11.9	20.6	12 17	3 22.64	+20 46.0	1.193	2.095	14.3	21.0
12 27	3 23.66	-6 10.2	2.654	3.341	13.6	20.7	12 27	3 18.55	+20 39.8	1.255	2.086	18.7	21.2
238215	2003 <i>UP</i> ₈₆		11 20.9 51°86	5°7/17.9	18		80765	2000 <i>CB</i> ₅₇		11 21.0 21°46	5°0/22.9	18	
10 18	4 10.95	+9 57.5	1.560	2.416	15.1	19.9	10 18	4 13.27	+30 0.5	1.047	1.903	20.8	18.4
10 28	4 5.95	+8 27.8	1.509	2.427	11.4	19.7	10 28	4 9.16	+30 25.4	0.997	1.911	16.2	18.2
11 7	3 58.68	+6 59.3	1.480	2.438	7.7	19.5	11 7	4 1.28	+30 30.1	0.965	1.921	11.0	17.9
11 17	3 50.04	+5 39.2	1.478	2.449	5.7	19.4	11 17	3 50.90	+30 11.7	0.954	1.932	6.2	17.7
11 27	3 41.21	+4 34.8	1.503	2.460	7.2	19.6	11 27	3 40.03	+29 32.2	0.966	1.944	5.6	17.7
12 7	3 33.37	+3 51.1	1.554	2.472	10.5	19.8	12 7	3 30.73	+28 39.1	1.002	1.957	9.9	18.0
12 17	3 27.43	+3 30.1	1.629	2.483	14.0	20.0	12 17	3 24.54	+27 42.4	1.060	1.972	14.7	18.3
12 27	3 23.98	+3 31.0	1.725	2.495	16.9	20.3	12 27	3 22.26	+26 51.7	1.138	1.988	18.9	18.6
215295	2001 <i>RR</i> ₁₄₅		11 20.9 16°10	1°9/20.1	17		347582	2001 <i>CT</i> ₄₉		11 21.0 327°23	1°6/20.5	18	
10 18	4 9.95	+18 0.7	1.537	2.394	15.3	20.2	10 18	4 11.97	+16 16.3	1.364	2.225	16.6	19.9
10 28	4 5.45	+17 16.0	1.475	2.397	11.3	19.9	10 28	4 7.62	+16 20.1	1.283	2.207	12.5	19.6
11 7	3 58.51	+16 25.0	1.435	2.402	6.8	19.7	11 7	4 0.25	+16 22.1	1.223	2.190	7.6	19.3
11 17	3 50.02	+15 31.7	1.421	2.407	2.4	19.4	11 17	3 50.65	+16 23.7	1.187	2.173	2.5	18.9
11 27	3 41.22	+14 41.1	1.434	2.412	4.0	19.6	11 27	3 40.22	+16 27.3	1.178	2.158	4.0	19.0
12 7	3 33.36	+13 58.8	1.474	2.419	8.5	19.8	12 7	3 30.54	+16 35.7	1.193	2.143	9.4	19.3
12 17	3 27.45	+13 29.0	1.538	2.426	12.6	20.1	12 17	3 23.04	+16 51.7	1.233	2.130	14.4	19.5
12 27	3 24.18	+13 14.1	1.624	2.433	16.2	20.4	12 27	3 18.72	+17 17.5	1.293	2.117	18.7	19.7
144121	2004 <i>BK</i> ₈₂		11 20.9 337°73	7°7/16.8	18		449913	2015 <i>NO</i> ₄		11 21.0 255°94	4°5/23.6	18	
10 18	4 9.46	+3 37.0	1.650	2.500	14.7	19.6	10 18	4 15.30	+33 51.5	1.781	2.587	15.7	20.7
10 28	4 4.90	+2 12.8	1.588	2.495	11.6	19.4	10 28	4 9.59	+33 43.4	1.697	2.581	12.5	20.4
11 7	3 58.13	+0 55.0	1.548	2.491	8.9	19.2	11 7	4 1.13	+33 16.4	1.635	2.574	8.8	20.2
11 17	3 49.92	-0 8.9	1.534	2.487	7.7	19.2	11 17	3 50.83	+32 28.7	1.598	2.568	5.5	20.0
11 27	3 41.35	-0 52.2	1.546	2.484	9.0	19.2	11 27	3 40.05	+31 22.0	1.589	2.561	4.8	20.0
12 7	3 33.57	-1 11.0	1.583	2.480	11.8	19.4	12 7	3 30.22	+30 2.1	1.608	2.554	7.7	20.1
12 17	3 27.51	-1 4.8	1.643	2.477	14.9	19.6	12 17	3 22.53	+28 37.2	1.653	2.548	11.5	20.3
12 27	3 23.85	-0 35.5	1.723	2.475	17.7	19.8	12 27	3 17.76	+27 16.1	1.723	2.541	15.0	20.5
412702	2014 <i>OD</i> ₂₈₀		11 20.9 12°61	9°0/25.5	17		46395	2002 <i>CT</i> ₄		11 21.0 36°44			