

EPHEMERIDES

2 5.9

2 6.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
153810	2001 <i>VK</i> ₁₁₉		2 5.9 145°36	1.3°/ 7.0	18		312132	2007 <i>TY</i> ₂₇₁		2 5.9 30°36	0.6°/ 6.3	18	
1 2	9 41.59	+10 8.0	2.339	3.126	12.5	20.9	1 2	9 41.28	+12 42.7	1.478	2.300	16.8	21.6
1 12	9 36.00	+10 19.3	2.260	3.136	9.6	20.7	1 12	9 36.81	+12 57.3	1.405	2.303	12.8	21.3
1 22	9 28.54	+10 41.0	2.205	3.147	6.2	20.5	1 22	9 29.54	+13 25.9	1.354	2.306	8.1	21.0
2 1	9 19.82	+11 10.7	2.179	3.156	2.7	20.3	2 1	9 20.26	+14 4.2	1.328	2.309	2.9	20.7
2 11	9 10.66	+11 44.7	2.183	3.165	2.0	20.2	2 11	9 10.25	+14 46.0	1.329	2.313	2.6	20.7
2 21	9 1.93	+12 19.3	2.218	3.174	5.5	20.5	2 21	9 0.89	+15 25.1	1.357	2.316	7.7	21.0
3 2	8 54.47	+12 50.8	2.281	3.182	8.8	20.7	3 2	8 53.48	+15 56.4	1.410	2.320	12.4	21.3
3 12	8 48.88	+13 16.8	2.370	3.189	11.7	20.9	3 12	8 48.87	+16 16.8	1.485	2.325	16.4	21.6
200351	2000 <i>KN</i> ₃₄		2 5.9 205°23	4.0°/ 3.2	18		7129	1991 <i>VE</i> ₁		2 5.9 136°50	5.6°/ 10.4	18	
1 2	9 44.20	+22 35.7	1.735	2.562	14.5	20.8	1 2	9 39.85	- 2 6.6	2.258	2.996	14.4	18.2
1 12	9 38.92	+23 46.4	1.657	2.559	10.9	20.5	1 12	9 34.79	- 2 30.0	2.176	3.005	11.9	18.0
1 22	9 30.84	+25 3.3	1.603	2.555	7.1	20.3	1 22	9 27.86	- 2 35.4	2.115	3.014	9.1	17.8
2 1	9 20.71	+26 17.8	1.576	2.550	4.1	20.1	2 1	9 19.62	- 2 22.4	2.080	3.022	6.6	17.7
2 11	9 9.72	+27 21.1	1.577	2.545	5.5	20.2	2 11	9 10.90	- 1 52.6	2.074	3.030	5.6	17.6
2 21	8 59.26	+28 6.5	1.607	2.539	9.3	20.4	2 21	9 2.58	- 1 9.4	2.096	3.038	6.9	17.7
3 2	8 50.62	+28 31.3	1.662	2.533	13.2	20.6	3 2	8 55.48	- 0 17.8	2.146	3.045	9.4	17.9
3 12	8 44.74	+28 36.1	1.738	2.527	16.6	20.8	3 12	8 50.24	+ 0 36.7	2.221	3.052	12.0	18.1
151012	2001 <i>US</i> ₉₂		2 5.9 26°24	3.5°/ 3.6	18		467599	2007 <i>VD</i> ₂₅₁		2 5.9 111°05	4.4°/ 1.8	18	
1 2	9 40.09	+21 26.2	1.600	2.437	15.0	19.5	1 2	9 40.30	+28 11.0	2.458	3.279	10.9	21.0
1 12	9 35.83	+22 26.6	1.533	2.441	11.3	19.3	1 12	9 35.16	+29 17.4	2.396	3.290	8.3	20.9
1 22	9 28.87	+23 33.5	1.490	2.445	7.1	19.0	1 22	9 28.09	+30 22.8	2.359	3.302	5.8	20.7
2 1	9 20.01	+24 38.7	1.472	2.450	3.7	18.8	2 1	9 19.69	+31 20.8	2.351	3.313	4.4	20.6
2 11	9 10.47	+25 33.8	1.482	2.455	5.0	18.9	2 11	9 10.86	+32 6.2	2.373	3.323	5.4	20.7
2 21	9 1.59	+26 12.9	1.520	2.460	9.0	19.2	2 21	9 2.51	+32 35.4	2.424	3.334	7.8	20.9
3 2	8 54.60	+26 33.1	1.581	2.466	13.0	19.4	3 2	8 55.49	+32 47.5	2.501	3.344	10.3	21.1
3 12	8 50.31	+26 34.7	1.664	2.473	16.4	19.7	3 12	8 50.43	+32 43.6	2.600	3.354	12.6	21.2
104852	2000 <i>HJ</i> ₇₅		2 5.9 214°26	2°0/ 4.3	18		218023	2001 <i>YL</i> ₄₅		2 5.9 168°13	5.4°/ 9.7	18	
1 2	9 41.66	+19 28.8	2.341	3.152	11.8	20.8	1 2	9 41.43	- 0 12.4	2.178	2.925	14.5	20.3
1 12	9 36.31	+20 16.5	2.249	3.144	8.8	20.5	1 12	9 36.08	- 0 48.4	2.090	2.928	12.0	20.2
1 22	9 28.90	+21 10.2	2.183	3.135	5.5	20.3	1 22	9 28.73	- 1 8.0	2.024	2.930	9.1	20.0
2 1	9 20.00	+22 4.8	2.146	3.126	2.4	20.1	2 1	9 19.94	- 1 10.3	1.985	2.932	6.5	19.8
2 11	9 10.45	+22 54.7	2.140	3.116	3.3	20.1	2 11	9 10.59	- 0 56.3	1.974	2.934	5.5	19.8
2 21	9 1.23	+23 35.4	2.164	3.105	6.7	20.3	2 21	9 1.62	- 0 29.1	1.992	2.935	7.0	19.9
3 2	8 53.26	+24 3.8	2.216	3.094	10.1	20.5	3 2	8 53.93	+ 0 7.0	2.038	2.936	9.8	20.0
3 12	8 47.27	+24 19.2	2.292	3.082	13.0	20.7	3 12	8 48.20	+ 0 47.0	2.108	2.937	12.6	20.2
131924	2002 <i>CT</i> ₁		2 5.9 109°52	3°0/ 4.4	18		26205	Kuratsowski		2 5.9 139°94	3°5/ 2.9	18	
1 2	9 47.51	+21 57.3	1.609	2.433	15.6	19.5	1 2	9 41.66	+21 27.5	2.027	2.849	12.9	19.6
1 12	9 41.23	+22 28.5	1.546	2.446	11.7	19.3	1 12	9 36.54	+22 55.6	1.958	2.858	9.6	19.4
1 22	9 32.12	+23 3.3	1.506	2.459	7.3	19.1	1 22	9 29.13	+24 29.7	1.915	2.867	6.1	19.2
2 1	9 21.07	+23 34.7	1.493	2.471	3.5	18.9	2 1	9 20.10	+26 1.8	1.901	2.875	3.6	19.0
2 11	9 9.47	+23 56.0	1.508	2.483	4.5	19.0	2 11	9 10.45	+27 23.8	1.917	2.883	4.8	19.1
2 21	8 58.75	+24 3.4	1.551	2.495	8.6	19.2	2 21	9 1.29	+28 29.6	1.962	2.891	8.2	19.3
3 2	8 50.17	+23 55.6	1.620	2.506	12.7	19.5	3 2	8 53.65	+29 16.1	2.034	2.898	11.5	19.6
3 12	8 44.50	+23 34.3	1.711	2.517	16.1	19.7	3 12	8 48.28	+29 43.2	2.128	2.904	14.3	19.8
211552	2003 <i>SO</i> ₅₂		2 5.9 74°43	4°4/ 3.5	18		200464	2000 <i>WD</i> ₁₃₄		2 5.9 121°56	0°5/ 6.3	18	
1 2	9 45.50	+24 20.6	1.519	2.353	15.8	19.9	1 2	9 45.50	+13 29.3	1.769	2.574	15.2	20.0
1 12	9 39.89	+25 12.9	1.464	2.369	11.9	19.7	1 12	9 39.44	+13 37.0	1.699	2.588	11.5	19.8
1 22	9 31.34	+26 7.2	1.431	2.384	7.7	19.5	1 22	9 30.91	+13 54.9	1.652	2.601	7.2	19.6
2 1	9 20.81	+26 54.8	1.425	2.399	4.6	19.4	2 1	9 20.68	+14 19.4	1.633	2.614	2.6	19.3
2 11	9 9.74	+27 27.9	1.446	2.414	5.8	19.5	2 11	9 9.93	+14 45.5	1.642	2.626	2.3	19.3
2 21	8 59.61	+27 42.0	1.493	2.429	9.6	19.7	2 21	8 59.87	+15 8.8	1.681	2.637	6.9	19.6
3 2	8 51.71	+27 36.6	1.566	2.444	13.5	20.0	3 2	8 51.60	+15 26.0	1.747	2.649	11.0	19.9
3 12	8 46.80	+27 13.9	1.658	2.459	16.8	20.2	3 12	8 45.86	+15 35.3	1.836	2.659	14.5	20.2
323498	2004 <i>QE</i> ₁		2 5.9 257°41	6°5/ 12.2	17		235673	2004 <i>RO</i> ₂₆₄		2 5.9 219°42	1°6/ 4.9	18	
1 2	9 39.13	- 8 56.7	2.547	3.237	14.0	22.6	1 2	9 44.87	+17 45.4	1.868	2.682	14.2	22.0
1 12	9 34.37	- 8 46.3	2.421	3.210	12.1	22.4	1 12	9 39.22	+18 22.0	1.778	2.673	10.7	21.8
1 22	9 27.72	- 8 13.0	2.315	3.182	9.8	22.2	1 22	9 30.97	+19 7.1	1.711	2.664	6.7	21.5
2 1	9 19.63	- 7 15.2	2.235	3.153	7.7	22.0	2 1	9 20.78	+19 55.1	1.672	2.653	2.4	21.2
2 11	9 10.78	- 5 54.1	2.183	3.124	6.5	21.9	2 11	9 9.75	+20 39.5	1.663	2.642	3.3	21.2
2 21	9 2.00	- 4 13.5	2.161	3.093	7.3	21.9	2 21	8 59.14	+21 14.9	1.683	2.631	7.7	21.5
3 2	8 54.14	- 2 20.0	2.169	3.062	9.6	21.9	3 2	8 50.15	+21 37.7	1.729	2.618	11.8	21.7
3 12	8 47.93	- 0 21.4	2.205	3.030	12.3	22.1	3 12	8 43.69	+21 47.0	1.799	2.605	15.4	21.9
90188	2003 <i>AY</i> ₃₈		2 5.9 291°50	0°4/ 5.7	18		335217	2005 <i>FL</i> ₁₁		2 5.9 322°75	4°4/ 9.5	17	
1 2	9 37.56	+12 13.0	1.752	2.569	14.8	19.2	1 2	9 36.82	+ 1 15.9	2.214	2.976	13.9	20.8
1 12	9 33.84	+13 18.5	1.661	2.557	11.3	18.9	1 12	9 32.64	+ 1 7.3	2.124	2.974	11.3	20.6
1 22	9 27.68	+14 41.1	1.592	2.545	7.0	18.7	1 22	9 26.60	+ 1 15.4	2.056	2.973	8.3	20.4
2 1	9 19.66	+16 15.4	1.551	2.533	2.3	18.3	2 1	9 19.24	+ 1 40.1	2.014	2.971	5.5	20.2
2 11	9 10.77	+17 53.1	1.538	2.521	2.7	18.3	2 11	9 11.33	+ 2 19.0	2.001	2.969	4.4	20.2
2 21	9 2.20	+19 25.3	1.554	2.509	7.5	18.6	2 21	9 3.76	+ 3 8.0	2.016	2.968	6.3	20.3
3 2	8 55.11	+20 44.9	1.597	2.497	11.9	18.8	3 2	8 57.34	+ 4 2.3	2.059	2.966	9.2	20.4
3 12	8 50.41	+21 47.5	1.662	2.485	15.7	19.0	3 12	8 52.75	+ 4 56.6	2.126	2.965	12.2	20.6
87016	2000 <i>JJ</i> ₆₂		2 5.9 212°14	4°8/ 9.6	18		428414	2007 <i>TS</i> ₁₁₉		2 6.0 337°77	5°1/ 10.0	17	
1 2	9 39.82</												

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
282171	2001 <i>ST</i> ₃₄₅		2 6.0 184°07	3°3/ 8.2 18			363808	2005 <i>LC</i> ₃₇		2 6.0 172°81	4°0/ 2.1 18		
1 2	9 44.33	+ 5 13.5	2.056	2.826	14.6	21.8	1 2	9 42.52	+25 5.3	2.385	3.201	11.4	21.9
1 12	9 38.41	+ 5 9.4	1.965	2.827	11.5	21.6	1 12	9 36.99	+26 32.1	2.310	3.205	8.6	21.7
1 22	9 30.26	+ 5 20.5	1.898	2.827	8.0	21.4	1 22	9 29.35	+28 1.6	2.262	3.208	5.8	21.6
2 1	9 20.50	+ 5 45.7	1.858	2.826	4.6	21.2	2 1	9 20.21	+29 26.5	2.244	3.211	4.1	21.5
2 11	9 10.08	+ 6 21.8	1.848	2.824	3.5	21.1	2 11	9 10.45	+30 39.7	2.257	3.213	5.2	21.5
2 21	9 0 06	+ 7 4.4	1.867	2.822	6.5	21.3	2 21	9 1 06	+31 36.4	2.300	3.214	7.9	21.7
3 2	8 51.45	+ 7 48.7	1.915	2.818	10.1	21.5	3 2	8 53.00	+32 14.3	2.369	3.214	10.8	21.9
3 12	8 45.01	+ 8 30.1	1.988	2.813	13.4	21.7	3 12	8 46.98	+32 33.9	2.462	3.214	13.3	22.1
455919	2005 <i>UM</i> ₂₅₇		2 6.0 31°49	0°6/ 5.6 18			191793	2004 <i>TK</i> ₁₅₄		2 6.0 345°96	0°1/ 5.9 18		
1 2	9 39.88	+15 4.5	1.786	2.606	14.5	21.6	1 2	9 39.59	+14 17.3	1.922	2.735	13.8	20.9
1 12	9 35.38	+15 36.5	1.709	2.607	10.9	21.3	1 12	9 35.02	+14 42.5	1.841	2.735	10.5	20.7
1 22	9 28.49	+16 19.1	1.656	2.609	6.8	21.1	1 22	9 28.22	+15 17.9	1.783	2.734	6.5	20.4
2 1	9 19.91	+17 7.4	1.629	2.610	2.2	20.8	2 1	9 19.84	+15 59.5	1.752	2.734	2.2	20.2
2 11	9 10.69	+17 55.4	1.630	2.612	2.6	20.8	2 11	9 10.84	+16 42.0	1.751	2.734	2.3	20.2
2 21	9 1 99	+18 37.3	1.660	2.614	7.1	21.1	2 21	9 2 30	+17 20.3	1.778	2.733	6.6	20.4
3 2	8 54.89	+19 9.2	1.716	2.616	11.2	21.4	3 2	8 55.23	+17 50.6	1.832	2.733	10.6	20.7
3 12	8 50.17	+19 29.0	1.794	2.618	14.7	21.6	3 12	8 50.37	+18 10.6	1.909	2.733	14.0	20.9
182038	2000 <i>CL</i> ₆₄		2 6.0 336°51	1°2/ 5.3 18			323781	2005 <i>QH</i> ₆₃		2 6.0 145°81	0°9/ 5.3 18		
1 2	9 39.23	+15 52.4	1.492	2.325	16.2	19.6	1 2	9 41.53	+15 58.1	2.177	2.985	12.6	21.5
1 12	9 35.41	+16 31.9	1.414	2.319	12.2	19.3	1 12	9 36.18	+16 37.7	2.102	2.994	9.5	21.3
1 22	9 28.78	+17 23.9	1.357	2.313	7.6	19.0	1 22	9 28.79	+17 25.4	2.051	3.002	5.8	21.1
2 1	9 20.07	+18 22.6	1.326	2.308	2.6	18.7	2 1	9 19.99	+18 16.5	2.029	3.010	2.0	20.9
2 11	9 10.50	+19 20.0	1.322	2.304	3.3	18.7	2 11	9 10.70	+19 5.6	2.037	3.018	2.5	20.9
2 21	9 1 49	+20 8.9	1.345	2.300	8.4	19.0	2 21	9 1 87	+19 48.1	2.075	3.025	6.3	21.2
3 2	8 54.35	+20 44.1	1.392	2.296	13.0	19.3	3 2	8 54.42	+20 20.8	2.141	3.031	9.8	21.4
3 12	8 50.01	+21 3.5	1.461	2.293	17.0	19.5	3 12	8 49.01	+20 42.1	2.231	3.037	12.8	21.6
405903	2006 <i>HO</i> ₆₄		2 6.0 213°59	1°4/ 7.0 18			118203	1995 <i>HL</i> ₄		2 6.0 150°26	0°0/ 5.8 18		
1 2	9 41.74	+ 9 35.0	1.938	2.733	14.4	22.6	1 2	9 40.86	+13 35.9	2.355	3.153	12.1	21.0
1 12	9 36.69	+ 9 56.1	1.846	2.727	11.2	22.4	1 12	9 35.52	+14 9.2	2.276	3.162	9.1	20.8
1 22	9 29.31	+10 31.5	1.777	2.720	7.3	22.2	1 22	9 28.32	+14 51.5	2.222	3.171	5.7	20.6
2 1	9 20.21	+11 18.2	1.735	2.713	3.1	21.9	2 1	9 19.82	+15 38.9	2.198	3.179	1.9	20.4
2 11	9 10.37	+12 11.5	1.723	2.705	2.3	21.8	2 11	9 10.87	+16 26.9	2.204	3.186	1.9	20.4
2 21	9 0 90	+13 5.6	1.739	2.697	6.5	22.1	2 21	9 2 34	+17 11.0	2.240	3.193	5.6	20.6
3 2	8 52.85	+13 55.4	1.784	2.688	10.6	22.3	3 2	8 55.04	+17 48.0	2.305	3.200	9.0	20.8
3 12	8 47.06	+14 36.8	1.852	2.679	14.2	22.5	3 12	8 49.61	+18 15.7	2.395	3.205	11.9	21.0
307678	2003 <i>SR</i> ₃₃₃		2 6.0 61°77	1°5/ 5.2 18			193907	2001 <i>QT</i> ₂₄₇		2 6.0 127°26	0°5/ 5.7 18		
1 2	9 44.25	+17 15.8	1.415	2.245	17.0	20.9	1 2	9 45.27	+14 30.4	1.808	2.616	14.8	21.4
1 12	9 38.95	+17 47.0	1.361	2.265	12.7	20.7	1 12	9 39.25	+15 10.4	1.742	2.633	11.1	21.2
1 22	9 30.75	+18 27.5	1.330	2.285	7.8	20.5	1 22	9 30.80	+16 1.1	1.699	2.650	6.9	21.0
2 1	9 20.65	+19 10.5	1.324	2.306	2.7	20.2	2 1	9 20.68	+16 56.9	1.684	2.665	2.3	20.7
2 11	9 10.06	+19 48.7	1.346	2.327	3.4	20.3	2 11	9 10.04	+17 51.2	1.698	2.680	2.6	20.8
2 21	9 0 44	+20 16.6	1.394	2.348	8.3	20.7	2 21	9 0 07	+18 38.4	1.742	2.695	7.0	21.1
3 2	8 53.02	+20 31.2	1.468	2.369	12.7	21.0	3 2	8 51.86	+19 14.6	1.814	2.708	11.0	21.3
3 12	8 48.56	+20 32.1	1.562	2.390	16.4	21.2	3 12	8 46.14	+19 38.1	1.908	2.721	14.4	21.6
308276	2005 <i>GU</i> ₁₆₉		2 6.0 351°03	0°6/ 5.7 18			81828	2000 <i>KT</i> ₄₄		2 6.0 86°02	2°3/ 3.9 18		
1 2	9 39.53	+15 24.9	1.322	2.160	17.5	20.5	1 2	9 38.79	+20 3.8	2.242	3.061	11.9	19.3
1 12	9 35.89	+15 43.5	1.248	2.155	13.3	20.2	1 12	9 34.10	+21 4.2	2.176	3.075	8.8	19.1
1 22	9 29.19	+16 14.9	1.194	2.151	8.3	19.9	1 22	9 27.48	+22 9.7	2.135	3.088	5.5	18.9
2 1	9 20.23	+16 53.9	1.165	2.148	2.8	19.6	2 1	9 19.54	+23 14.7	2.124	3.102	2.6	18.8
2 11	9 10.38	+17 33.0	1.162	2.145	3.1	19.6	2 11	9 11.17	+24 13.0	2.142	3.115	3.6	18.9
2 21	9 1 19	+18 5.6	1.184	2.143	8.7	19.9	2 21	9 3 27	+25 0.3	2.190	3.129	6.8	19.1
3 2	8 54.11	+18 26.8	1.230	2.143	13.7	20.2	3 2	8 56.69	+25 33.8	2.264	3.142	9.9	19.3
3 12	8 50.11	+18 34.5	1.297	2.143	18.0	20.5	3 12	8 52.07	+25 53.0	2.363	3.155	12.6	19.5
204229	2004 <i>CD</i> ₁₁₆		2 6.0 94°40	0°6/ 5.6 18			246545	2008 <i>RT</i> ₈₁		2 6.0 180°98	1°5/ 7.2 18		
1 2	9 43.26	+17 43.3	2.272	3.078	12.2	20.5	1 2	9 39.56	+ 9 42.6	2.171	2.964	13.2	21.2
1 12	9 37.29	+17 41.5	2.198	3.089	9.2	20.3	1 12	9 34.73	+ 9 52.3	2.085	2.964	10.1	21.0
1 22	9 29.36	+17 44.0	2.149	3.099	5.7	20.1	1 22	9 27.93	+10 13.7	2.022	2.965	6.6	20.8
2 1	9 20.14	+17 47.8	2.128	3.110	1.9	19.8	2 1	9 19.72	+10 44.5	1.987	2.965	3.0	20.6
2 11	9 10.54	+17 49.6	2.139	3.121	2.2	19.9	2 11	9 10.97	+11 21.0	1.982	2.964	2.2	20.5
2 21	9 1 49	+17 47.0	2.179	3.131	5.9	20.1	2 21	9 2 61	+11 59.0	2.006	2.964	5.8	20.7
3 2	8 53.85	+17 38.6	2.248	3.141	9.3	20.4	3 2	8 55.52	+12 34.3	2.058	2.963	9.4	20.9
3 12	8 48.22	+17 23.8	2.341	3.152	12.1	20.6	3 12	8 50.38	+13 3.9	2.135	2.963	12.6	21.2
252232	2001 <i>PX</i> ₂		2 6.0 118°26	2°8/ 8.3 18			6019	Telford		2 6.0 17°80	2°1/ 7.4 18		
1 2	9 40.31	+ 4 57.1	2.068	2.844	14.3	20.6	1 2	9 39.86	+ 9 33.0	2.084	2.878	13.6	16.3
1 12	9 35.26	+ 5 16.6	1.994	2.860	11.2	20.4	1 12	9 35.00	+ 9 20.2	2.000	2.879	10.5	16.1
1 22	9 28.20	+ 5 52.3	1.942	2.874	7.7	20.2	1 22	9 28.10	+ 9 18.4	1.940	2.880	7.0	15.9
2 1	9 19.78	+ 6 42.1	1.918	2.889	4.2	20.0	2 1	9 19.77	+ 9 26.1	1.906	2.882	3.4	15.6
2 11	9 10.89	+ 7 41.5	1.924	2.903	3.0	19.9	2 11	9 10.92	+ 9 40.5	1.902	2.883	2.6	15.6
2 21	9 2 49	+ 8 45.0	1.959	2.916	5.9	20.2	2 21	9 2 51	+ 9 58.2	1.927	2.885	6.0	15.8
3 2	8 55.46	+ 9 47.1	2.022	2.929	9.4	20.4	3 2	8 55.43	+10 15.8	1.980	2.887	9.6	16.0
3 12	8 50.45	+10 43.1	2.110	2.942	12.5	20.6	3 12	8 50.38	+10 30.4	2.056	2.889	12.8	16.2
364437	2006 <i>WQ</i> ₁₈₆		2 6.0 165°68	5°8/10.5 18			78703	2002 <i>TF</i> ₁₇₆		2 6.0 93°46	1°4/ 7.0 18		
1 2	9 39.71	- 2 34.9	2.090	2.831	15.3	21.2	1 2	9 40.96	+11 6.4	2.29			

EPHEMERIDES

2 6.0

2 6.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
14460	1993 FZ ₄₀		2 6.0 126°21	2.4/ 4.5	18		411494	2011 AQ ₆₀		2 6.0 47°82	2.5/ 4.2	18	
1 2	9 46.06	+19 20.7	1.674	2.495	15.2	18.3	1 2	9 39.41	+18 25.8	1.645	2.476	14.9	20.8
1 12	9 40.10	+20 7.6	1.609	2.508	11.4	18.1	1 12	9 35.22	+19 32.9	1.581	2.486	11.1	20.6
1 22	9 31.45	+21 1.3	1.568	2.521	7.0	17.9	1 22	9 28.48	+20 49.2	1.541	2.497	6.8	20.3
2 1	9 20.93	+21 55.0	1.554	2.534	2.9	17.7	2 1	9 19.97	+22 7.1	1.527	2.507	3.0	20.1
2 11	9 9.82	+22 41.1	1.569	2.546	4.0	17.8	2 11	9 10.85	+23 18.0	1.541	2.518	4.1	20.2
2 21	8 59.47	+23 14.2	1.612	2.557	8.2	18.0	2 21	9 2.37	+24 15.1	1.583	2.529	8.3	20.5
3 2	8 51.07	+23 32.0	1.681	2.568	12.2	18.3	3 2	8 55.67	+24 54.6	1.651	2.540	12.3	20.7
3 12	8 45.43	+23 34.4	1.772	2.578	15.6	18.6	3 12	8 51.51	+25 15.8	1.740	2.552	15.6	21.0
184163	2004 LX ₄		2 6.0 148°81	5.9/11.1	18		86869	2000 HF ₂₀		2 6.0 162°46	0.9/ 6.7	18	
1 2	9 38.34	- 4 4.1	2.107	2.843	15.3	20.6	1 2	9 43.85	+10 42.8	2.054	2.846	13.9	21.1
1 12	9 33.86	- 4 6.3	2.021	2.848	12.8	20.5	1 12	9 38.04	+11 12.3	1.973	2.854	10.6	20.9
1 22	9 27.41	- 3 46.7	1.957	2.853	9.9	20.3	1 22	9 30.04	+11 54.4	1.916	2.861	6.8	20.7
2 1	9 19.55	- 3 4.8	1.917	2.857	7.2	20.1	2 1	9 20.49	+12 45.4	1.887	2.867	2.6	20.4
2 11	9 11.15	- 2 3.1	1.904	2.861	5.9	20.0	2 11	9 10.35	+13 40.0	1.889	2.872	2.1	20.4
2 21	9 3.12	- 0 46.8	1.921	2.865	7.2	20.1	2 21	9 0.69	+14 32.9	1.921	2.876	6.2	20.7
3 2	8 56.35	+ 0 37.6	1.965	2.869	9.8	20.3	3 2	8 52.47	+15 19.7	1.981	2.880	10.0	20.9
3 12	8 51.53	+ 2 2.8	2.034	2.872	12.7	20.5	3 12	8 46.44	+15 57.2	2.065	2.882	13.3	21.1
411284	2010 SG ₃₆		2 6.0 52°34	8.3/ 2.0	18		462861	2010 VP ₃₃		2 6.0 46°85	3.9/ 3.5	18	
1 2	9 50.96	+34 29.0	1.433	2.264	16.8	20.4	1 2	9 41.53	+22 0.5	1.478	2.317	15.9	20.8
1 12	9 44.12	+35 28.0	1.398	2.291	13.2	20.3	1 12	9 37.00	+23 5.8	1.424	2.333	11.9	20.6
1 22	9 33.94	+36 16.4	1.385	2.319	10.0	20.2	1 22	9 29.65	+24 16.3	1.394	2.349	7.5	20.4
2 1	9 21.70	+36 43.7	1.397	2.347	8.3	20.2	2 1	9 20.37	+25 23.1	1.389	2.365	4.1	20.3
2 11	9 9.22	+36 43.2	1.435	2.375	9.4	20.3	2 11	9 10.53	+26 17.3	1.411	2.382	5.5	20.4
2 21	8 58.23	+36 14.4	1.498	2.403	12.1	20.5	2 21	9 1.55	+26 53.2	1.459	2.399	9.4	20.6
3 2	8 50.04	+35 21.3	1.584	2.431	15.1	20.8	3 2	8 54.66	+27 8.7	1.532	2.417	13.3	20.9
3 12	8 45.28	+34 10.7	1.690	2.459	17.7	21.0	3 12	8 50.64	+27 5.1	1.626	2.435	16.7	21.2
262717	2006 XJ ₁₈		2 6.0 7°64	6.2/ 1.5	18		451693	2013 CO ₁₁		2 6.0 23°97	2.3/ 4.8	18	
1 2	9 37.94	+25 17.3	1.384	2.236	16.1	19.6	1 2	9 39.68	+17 31.1	1.084	1.939	19.3	21.2
1 12	9 34.77	+27 1.4	1.323	2.236	12.2	19.4	1 12	9 36.39	+18 17.7	1.030	1.946	14.5	20.9
1 22	9 28.53	+28 50.6	1.285	2.238	8.3	19.2	1 22	9 29.64	+19 17.5	0.996	1.956	8.9	20.7
2 1	9 20.04	+30 32.7	1.273	2.240	6.3	19.1	2 1	9 20.44	+20 21.4	0.984	1.966	3.4	20.4
2 11	9 10.69	+31 55.7	1.286	2.244	8.0	19.2	2 11	9 10.45	+21 18.5	0.997	1.977	4.5	20.5
2 21	9 2.05	+32 51.7	1.324	2.248	11.7	19.4	2 21	9 1.49	+22 0.6	1.034	1.990	10.1	20.8
3 2	8 55.57	+33 18.1	1.385	2.253	15.5	19.6	3 2	8 55.08	+22 23.2	1.092	2.003	15.2	21.1
3 12	8 52.18	+33 17.4	1.464	2.259	18.9	19.9	3 12	8 52.14	+22 26.0	1.170	2.017	19.5	21.4
158978	2004 RW ₃₀₀		2 6.0 55°13	1.6/ 4.9	18		372511	2009 SU ₂₈₆		2 6.0 19°90	0.9/ 5.5	18	
1 2	9 41.10	+18 21.5	1.819	2.642	14.1	20.9	1 2	9 42.28	+17 27.9	1.767	2.588	14.5	21.2
1 12	9 36.23	+18 51.5	1.748	2.648	10.6	20.7	1 12	9 37.22	+17 38.1	1.691	2.590	11.0	21.0
1 22	9 28.99	+19 28.4	1.701	2.655	6.5	20.5	1 22	9 29.67	+17 55.3	1.638	2.591	6.8	20.7
2 1	9 20.10	+20 6.9	1.680	2.661	2.4	20.2	2 1	9 20.39	+18 15.0	1.612	2.593	2.3	20.5
2 11	9 10.66	+20 41.2	1.689	2.668	3.2	20.3	2 11	9 10.49	+18 32.4	1.614	2.595	2.8	20.5
2 21	9 1.82	+21 6.6	1.725	2.675	7.3	20.6	2 21	9 1.19	+18 43.5	1.644	2.598	7.2	20.8
3 2	8 54.63	+21 20.4	1.788	2.682	11.2	20.8	3 2	8 53.60	+18 45.6	1.700	2.600	11.3	21.0
3 12	8 49.84	+21 22.0	1.873	2.690	14.5	21.0	3 12	8 48.50	+18 38.1	1.780	2.603	14.8	21.3
168278	2007 PJ ₂₉		2 6.0 146°53	0.8/ 6.6	18		414762	2010 KZ ₁₀₄		2 6.0 223°62	2.0/ 7.4	17	
1 2	9 44.07	+11 31.1	2.047	2.841	13.8	21.6	1 2	9 41.91	+ 8 11.4	2.098	2.883	13.8	22.4
1 12	9 38.14	+11 53.0	1.971	2.853	10.5	21.4	1 12	9 36.72	+ 8 25.4	1.998	2.872	10.8	22.2
1 22	9 30.04	+12 26.3	1.919	2.864	6.7	21.2	1 22	9 29.33	+ 8 53.3	1.922	2.861	7.2	21.9
2 1	9 20.44	+13 7.3	1.895	2.875	2.6	21.0	2 1	9 20.30	+ 9 33.2	1.873	2.849	3.4	21.7
2 11	9 10.32	+13 51.2	1.902	2.885	2.1	20.9	2 11	9 10.52	+10 20.9	1.854	2.836	2.5	21.6
2 21	9 0.74	+14 33.2	1.938	2.894	6.2	21.2	2 21	9 1.03	+11 11.5	1.865	2.822	6.2	21.8
3 2	8 52.64	+15 9.4	2.003	2.902	9.9	21.5	3 2	8 52.82	+12 0.2	1.904	2.808	10.1	22.0
3 12	8 46.74	+15 37.2	2.092	2.909	13.2	21.7	3 12	8 46.70	+12 42.8	1.968	2.793	13.6	22.2
55169	2001 QQ ₂₅₂		2 6.0 41°72	2.4/ 4.7	18		83944	2001 WM ₁₇		2 6.0 303°95	0.6/ 6.5	18	
1 2	9 42.51	+19 50.5	1.460	2.295	16.3	18.7	1 2	9 37.87	+12 37.0	2.200	3.005	12.6	19.4
1 12	9 37.70	+20 22.1	1.402	2.309	12.2	18.5	1 12	9 33.55	+12 49.2	2.107	2.995	9.6	19.2
1 22	9 30.05	+21 0.1	1.366	2.322	7.5	18.2	1 22	9 27.27	+13 11.2	2.037	2.986	6.1	19.0
2 1	9 20.48	+21 37.8	1.356	2.336	3.1	18.0	2 1	9 19.57	+13 40.2	1.996	2.976	2.3	18.7
2 11	9 10.35	+22 8.0	1.373	2.351	4.1	18.1	2 11	9 11.27	+14 12.3	1.983	2.966	1.9	18.7
2 21	9 1.11	+22 25.8	1.416	2.366	8.6	18.4	2 21	9 3.30	+14 43.6	2.000	2.957	5.8	18.9
3 2	8 53.98	+22 29.1	1.484	2.382	12.8	18.7	3 2	8 56.54	+15 10.4	2.044	2.948	9.5	19.1
3 12	8 49.73	+22 18.2	1.573	2.398	16.4	19.0	3 12	8 51.68	+15 30.2	2.112	2.939	12.7	19.3
325788	2010 PK ₇₈		2 6.0 65°21	2.7/ 7.8	18		149218	2002 RJ ₂₃		2 6.0 187°73	0.4/ 6.3	18	
1 2	9 42.89	+ 7 8.8	1.630	2.426	16.7	20.3	1 2	9 42.03	+12 37.8	2.071	2.871	13.5	21.4
1 12	9 37.46	+ 7 13.0	1.577	2.455	12.9	20.1	1 12	9 36.74	+13 3.8	1.985	2.871	10.2	21.2
1 22	9 29.65	+ 7 34.0	1.545	2.484	8.6	19.9	1 22	9 29.28	+13 40.8	1.922	2.870	6.5	21.0
2 1	9 20.29	+ 8 9.1	1.539	2.513	4.3	19.7	2 1	9 20.26	+14 25.1	1.888	2.868	2.3	20.7
2 11	9 10.57	+ 8 53.1	1.562	2.542	3.2	19.7	2 11	9 10.62	+15 11.7	1.883	2.866	2.1	20.7
2 21	9 1.66	+ 9 40.0	1.612	2.571	6.8	20.0	2 21	9 1.38	+15 55.6	1.909	2.864	6.3	21.0
3 2	8 54.59	+10 24.6	1.689	2.600	10.7	20.3	3 2	8 53.53	+16 32.9	1.962	2.861	10.1	21.2
3 12	8 50.01	+11 2.6	1.789	2.628	14.1	20.6	3 12	8 47.82	+17 0.9	2.039	2.857	13.4	21.4
117397	2005 AW ₁		2 6.0 341°88	1.2/ 6.6	18		88922	2001 TK ₁₄		2 6.0 50°99	5.3/ 9.9	18	
1 2	9 38.65	+11 54.4	1.278	2.112	18.3	19.5	1 2	9 38.56	- 0 11.6	2.226	2.977	14.1	19.2
1 12	9 35.36	+11 59.6											

EPHEMERIDES

2 6.0

2 6.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
281548	2008 <i>UX</i> ₃₂		2 6.0 67°44	0°2/ 5.9 18			69335	1993 <i>RT</i> ₆		2 6.0 103°83	0°5/ 6.4 18		
1 2	9 38.75	+14 16.7	2.060	2.871	13.1	20.9	1 2	9 39.65	+12 36.1	2.152	2.954	12.9	20.1
1 12	9 34.24	+14 47.3	1.983	2.876	9.9	20.7	1 12	9 34.80	+12 55.4	2.075	2.962	9.8	19.9
1 22	9 27.69	+15 27.5	1.930	2.881	6.1	20.5	1 22	9 27.99	+13 24.6	2.022	2.970	6.2	19.7
2 1	9 19.70	+16 13.3	1.905	2.887	2.1	20.2	2 1	9 19.83	+14 0.4	1.998	2.978	2.3	19.4
2 11	9 11.20	+16 59.5	1.909	2.892	2.2	20.3	2 11	9 11.20	+14 38.5	2.003	2.986	1.9	19.4
2 21	9 3.16	+17 41.3	1.943	2.897	6.2	20.5	2 21	9 3.02	+15 14.6	2.037	2.993	5.8	19.7
3 2	8 56.49	+18 15.0	2.003	2.903	9.9	20.8	3 2	8 56.17	+15 45.1	2.099	3.001	9.4	19.9
3 12	8 51.86	+18 38.4	2.088	2.908	13.1	21.0	3 12	8 51.29	+16 7.7	2.186	3.008	12.5	20.1
203518	2002 <i>AC</i> ₁₇₄		2 6.0 326°89	1°8/ 5.1 18			317218	2002 <i>CJ</i> ₈₇		2 6.0 52°30	0°1/ 5.9 18		
1 2	9 39.59	+17 13.0	1.268	2.112	17.7	20.4	1 2	9 41.64	+12 16.7	1.228	2.060	18.9	20.2
1 12	9 36.27	+17 46.6	1.188	2.099	13.5	20.1	1 12	9 37.34	+13 8.4	1.178	2.082	14.2	20.0
1 22	9 29.68	+18 33.0	1.128	2.086	8.4	19.7	1 22	9 29.98	+14 17.8	1.150	2.104	8.8	19.7
2 1	9 20.55	+19 25.8	1.093	2.075	3.0	19.4	2 1	9 20.55	+15 37.3	1.145	2.127	2.9	19.4
2 11	9 10.30	+20 15.8	1.082	2.063	4.0	19.4	2 11	9 10.56	+16 56.5	1.167	2.151	3.0	19.5
2 21	9 0.62	+20 55.1	1.097	2.053	9.6	19.7	2 21	9 1.58	+18 6.3	1.215	2.174	8.5	19.9
3 2	8 53.11	+21 18.4	1.134	2.043	14.9	20.0	3 2	8 54.92	+19 0.4	1.287	2.198	13.3	20.2
3 12	8 48.90	+21 23.9	1.191	2.035	19.4	20.2	3 12	8 51.34	+19 36.4	1.380	2.222	17.3	20.5
16853	Masafumi		2 6.0 345°66	0°6/ 5.6 18			26273	Kateschafer		2 6.0 56°41	1°3/ 6.9 18		
1 2	9 37.27	+15 28.1	1.932	2.753	13.5	17.6	1 2	9 39.31	+ 8 55.9	1.529	2.342	16.8	18.8
1 12	9 33.35	+15 58.1	1.849	2.748	10.2	17.4	1 12	9 35.20	+ 9 36.2	1.464	2.355	12.9	18.5
1 22	9 27.25	+16 37.6	1.790	2.743	6.3	17.1	1 22	9 28.53	+10 35.2	1.421	2.368	8.3	18.3
2 1	9 19.59	+17 22.5	1.758	2.739	2.1	16.9	2 1	9 20.07	+11 47.9	1.403	2.382	3.4	18.0
2 11	9 11.31	+18 7.2	1.754	2.736	2.5	16.9	2 11	9 11.00	+13 6.9	1.412	2.396	2.5	18.0
2 21	9 3.46	+18 46.5	1.778	2.733	6.7	17.1	2 21	9 2.59	+14 23.7	1.449	2.410	7.2	18.3
3 2	8 57.01	+19 16.7	1.829	2.730	10.6	17.4	3 2	8 55.99	+15 31.5	1.512	2.424	11.7	18.6
3 12	8 52.71	+19 35.5	1.903	2.728	14.0	17.6	3 12	8 51.97	+16 25.8	1.598	2.438	15.4	18.9
185507	2007 <i>TE</i> ₃₃₅		2 6.0 44°96	0°5/ 6.3 18			196265	2003 <i>EF</i> ₁₁		2 6.0 323°30	2°7/ 7.3 18		
1 2	9 41.70	+12 50.8	1.329	2.157	18.0	20.9	1 2	9 36.67	+ 9 24.4	1.145	1.982	19.7	19.3
1 12	9 37.24	+13 8.3	1.272	2.173	13.6	20.7	1 12	9 34.43	+ 9 16.3	1.054	1.957	15.6	18.9
1 22	9 29.86	+13 40.6	1.235	2.188	8.6	20.4	1 22	9 28.80	+ 9 28.8	0.982	1.933	10.5	18.6
2 1	9 20.48	+14 22.6	1.224	2.205	3.0	20.2	2 1	9 20.38	+10 1.0	0.931	1.909	4.9	18.2
2 11	9 10.52	+15 7.1	1.238	2.222	2.7	20.2	2 11	9 10.51	+10 47.9	0.904	1.887	3.7	18.0
2 21	9 1.45	+15 47.4	1.279	2.239	8.0	20.5	2 21	9 0.93	+11 41.4	0.900	1.866	9.4	18.2
3 2	8 54.54	+16 18.4	1.344	2.257	12.7	20.9	3 2	8 53.47	+12 33.0	0.918	1.846	15.4	18.5
3 12	8 50.60	+16 37.5	1.431	2.275	16.7	21.2	3 12	8 49.48	+13 15.1	0.955	1.827	20.8	18.7
28773	2000 <i>HU</i> ₃₅		2 6.0 253°26	2°1/ 4.5 18			427232	2014 <i>WT</i> ₅₄		2 6.0 64°68	1°1/ 5.3 18		
1 2	9 41.53	+21 26.2	2.288	3.103	11.8	17.7	1 2	9 41.03	+15 43.9	1.724	2.544	14.9	20.8
1 12	9 36.24	+21 47.4	2.201	3.098	8.9	17.5	1 12	9 36.18	+16 30.2	1.666	2.565	11.1	20.6
1 22	9 28.90	+22 11.5	2.140	3.092	5.6	17.3	1 22	9 28.97	+17 26.5	1.632	2.586	6.8	20.4
2 1	9 20.13	+22 34.2	2.107	3.086	2.5	17.0	2 1	9 20.18	+18 26.5	1.625	2.607	2.3	20.2
2 11	9 10.81	+22 51.1	2.105	3.080	3.3	17.1	2 11	9 10.93	+19 23.4	1.646	2.628	2.9	20.3
2 21	9 1.91	+22 59.1	2.131	3.075	6.6	17.3	2 21	9 2.39	+20 11.3	1.696	2.648	7.2	20.6
3 2	8 54.35	+22 56.4	2.185	3.069	10.0	17.5	3 2	8 55.59	+20 46.6	1.772	2.669	11.1	20.9
3 12	8 48.81	+22 43.2	2.263	3.063	12.9	17.7	3 12	8 51.19	+21 8.0	1.871	2.690	14.4	21.1
149809	2005 <i>MB</i> ₂		2 6.0 251°69	9°9/ 28.7 18			503836	2017 <i>KS</i> ₂₉		2 6.0 237°31	2°7/ 7.8 18		
1 2	9 44.82	+25 12.9	1.152	2.004	18.6	19.8	1 2	9 41.96	+ 7 17.9	1.914	2.701	14.9	21.8
1 12	9 41.35	+28 58.2	1.081	1.993	14.4	19.5	1 12	9 36.97	+ 7 18.6	1.816	2.690	11.7	21.6
1 22	9 33.63	+33 3.4	1.034	1.981	10.8	19.2	1 22	9 29.62	+ 7 34.2	1.741	2.678	8.0	21.3
2 1	9 22.16	+37 3.7	1.016	1.969	10.1	19.2	2 1	9 20.48	+ 8 3.5	1.693	2.666	4.1	21.0
2 11	9 8.53	+40 31.6	1.024	1.956	13.2	19.3	2 11	9 10.54	+ 8 42.7	1.673	2.653	3.1	20.9
2 21	8 55.07	+43 8.0	1.057	1.943	17.6	19.5	2 21	9 0.90	+ 9 27.0	1.682	2.640	6.7	21.1
3 2	8 44.30	+44 47.5	1.110	1.930	21.9	19.7	3 2	8 52.67	+10 11.4	1.719	2.626	10.8	21.4
3 12	8 38.03	+45 36.2	1.178	1.916	25.6	19.9	3 12	8 46.71	+10 51.1	1.779	2.612	14.4	21.6
210205	2007 <i>PA</i> ₃₇		2 6.0 94°46	1°7/ 7.2 18			290126	2005 <i>QP</i> ₁₄₈		2 6.0 221°28	3°2/ 3.8 18		
1 2	9 42.81	+ 8 32.7	1.647	2.447	16.4	20.6	1 2	9 45.13	+20 8.5	1.758	2.579	14.6	21.5
1 12	9 37.56	+ 9 2.9	1.584	2.468	12.6	20.4	1 12	9 39.75	+21 20.0	1.670	2.569	11.0	21.0
1 22	9 29.85	+ 9 50.1	1.544	2.488	8.2	20.2	1 22	9 31.55	+22 40.8	1.606	2.558	7.0	21.0
2 1	9 20.45	+10 49.9	1.530	2.508	3.5	20.0	2 1	9 21.19	+24 3.1	1.569	2.547	3.5	20.7
2 11	9 10.55	+11 56.0	1.544	2.527	2.5	19.9	2 11	9 9.83	+25 17.5	1.562	2.535	4.8	20.8
2 21	9 1.36	+13 1.1	1.587	2.546	6.9	20.2	2 21	8 58.85	+26 16.5	1.584	2.522	9.0	21.0
3 2	8 53.96	+13 59.5	1.657	2.564	11.1	20.5	3 2	8 49.60	+26 56.0	1.631	2.508	13.1	21.2
3 12	8 49.08	+14 46.9	1.749	2.582	14.6	20.8	3 12	8 43.08	+27 15.5	1.700	2.493	16.7	21.4
205272	2000 <i>SG</i> ₇₆		2 6.0 113°26	1°1/ 5.3 18			500409	2012 <i>TT</i> ₁₁₁		2 6.0 115°90	2°1/ 4.3 17		
1 2	9 44.80	+15 59.8	1.794	2.606	14.7	21.2	1 2	9 41.02	+22 0.6	2.493	3.306	11.0	22.1
1 12	9 38.94	+16 45.7	1.732	2.626	11.0	21.0	1 12	9 35.61	+22 25.7	2.419	3.314	8.2	21.9
1 22	9 30.66	+17 40.9	1.693	2.645	6.7	20.8	1 22	9 28.39	+22 52.8	2.371	3.322	5.2	21.7
2 1	9 20.73	+18 39.4	1.682	2.664	2.3	20.5	2 1	9 19.96	+23 17.9	2.352	3.329	2.5	21.5
2 11	9 10.31	+19 34.3	1.701	2.681	2.9	20.6	2 11	9 11.14	+23 36.9	2.363	3.337	3.2	21.6
2 21	9 0.59	+20 20.2	1.748	2.699	7.2	20.9	2 21	9 2.78	+23 47.1	2.404	3.344	6.2	21.8
3 2	8 52.65	+20 53.4	1.823	2.715	11.1	21.2	3 2	8 55.68	+23 47.1	2.473	3.352	9.1	22.0
3 12	8 47.19	+21 13.0	1.921	2.731	14.4	21.4	3 12	8 50.42	+23 37.0	2.566	3.359	11.7	22.2
305783	2009 <i>DZ</i> ₅₂		2 6.0 267°57	1°6/ 4.7 17			324518	2006 <i>VW</i> ₇₂		2 6.1 81°08	0°2/ 5.9 18		
1 2	9 39.35	+19 45.5	2.493	3.306	11.1	21.1	1 2	9 42.12	+14 25.5	1.720	2.		

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
124733	2001 SG ₁₇₉		2 6.1 110°86	1°5/ 5.0	18		121306	1999 RQ ₂₀₇		2 6.1 131°43	0°9/ 6.7	18	R
1 2	9 44.49	+16 13.5	1.629	2.448	15.7	20.4	1 2	9 41.69	+11 49.2	2.474	3.263	11.9	20.5
1 12	9 38.99	+17 9.9	1.567	2.465	11.7	20.1	1 12	9 36.04	+11 58.7	2.398	3.277	9.0	20.3
1 22	9 30.84	+18 16.9	1.527	2.481	7.2	19.9	1 22	9 28.63	+12 16.8	2.347	3.291	5.8	20.1
2 1	9 20.85	+19 27.5	1.515	2.497	2.5	19.7	2 1	9 20.05	+12 40.8	2.325	3.304	2.3	19.9
2 11	9 10.29	+20 33.5	1.532	2.512	3.4	19.8	2 11	9 11.09	+13 7.5	2.334	3.317	1.8	19.9
2 21	9 0.46	+21 28.2	1.577	2.527	7.9	20.1	2 21	9 2.58	+13 33.6	2.374	3.329	5.2	20.1
3 2	8 52.55	+22 7.6	1.649	2.541	12.1	20.3	3 2	8 55.28	+13 56.1	2.442	3.341	8.4	20.3
3 12	8 47.33	+22 30.6	1.742	2.555	15.6	20.6	3 12	8 49.75	+14 13.2	2.536	3.352	11.2	20.5
410314	2007 TE ₄₂₅		2 6.1 186°71	3°8/ 3.5	18		390979	2005 SU ₆		2 6.1 196°10	0°9/ 5.5	18	
1 2	9 43.77	+22 47.5	1.687	2.517	14.7	21.7	1 2	9 45.63	+16 8.6	1.687	2.502	15.4	21.4
1 12	9 38.65	+23 45.6	1.614	2.517	11.1	21.4	1 12	9 40.00	+16 37.4	1.605	2.500	11.7	21.1
1 22	9 30.76	+24 48.6	1.564	2.517	7.1	21.2	1 22	9 31.60	+17 16.2	1.545	2.497	7.3	20.9
2 1	9 20.88	+25 48.6	1.541	2.516	4.0	21.0	2 1	9 21.18	+17 59.9	1.513	2.494	2.5	20.6
2 11	9 10.22	+26 37.4	1.546	2.516	5.3	21.1	2 11	9 9.94	+18 41.6	1.509	2.491	2.9	20.6
2 21	9 0.18	+27 9.3	1.578	2.515	9.1	21.3	2 21	8 59.24	+19 15.8	1.534	2.486	7.8	20.9
3 2	8 52.02	+27 22.0	1.636	2.514	13.0	21.5	3 2	8 50.37	+19 38.5	1.585	2.481	12.2	21.1
3 12	8 46.62	+27 16.4	1.715	2.513	16.4	21.8	3 12	8 44.22	+19 48.5	1.658	2.476	16.0	21.3
155982	2001 QE ₂₄₇		2 6.1 156°19	0°2/ 6.2	18		498303	2007 VC ₁₀₉		2 6.1 121°44	3°8/ 9.3	17	
1 2	9 44.65	+12 38.0	1.960	2.758	14.2	21.4	1 2	9 37.44	+2 16.9	2.418	3.178	12.9	21.9
1 12	9 38.77	+13 11.7	1.882	2.768	10.8	21.2	1 12	9 32.99	+2 9.1	2.331	3.182	10.4	21.7
1 22	9 30.57	+13 57.0	1.829	2.776	6.8	20.9	1 22	9 26.82	+2 16.0	2.267	3.185	7.5	21.5
2 1	9 20.76	+14 49.5	1.803	2.784	2.4	20.7	2 1	9 19.47	+2 37.0	2.230	3.189	4.9	21.4
2 11	9 10.35	+15 43.4	1.808	2.791	2.2	20.7	2 11	9 11.66	+3 9.9	2.222	3.192	3.9	21.3
2 21	9 0.47	+16 33.3	1.843	2.797	6.5	21.0	2 21	9 4.17	+3 51.2	2.243	3.195	5.7	21.4
3 2	8 52.15	+17 14.8	1.905	2.802	10.5	21.2	3 2	8 57.78	+4 36.5	2.293	3.199	8.5	21.6
3 12	8 46.13	+17 45.6	1.992	2.807	13.8	21.4	3 12	8 53.06	+5 21.7	2.367	3.202	11.3	21.8
294739	2008 CM		2 6.1 51°72	34°8/12.0	18	R	396624	2001 TE ₁₆₀		2 6.1 140°47	4°7/ 3.2	18	
1 2	10 56.63	-33 46.7	0.581	1.209	53.7	18.3	1 2	9 47.75	+25 21.1	1.677	2.503	15.0	21.6
1 12	10 36.39	-42 36.1	0.616	1.270	49.1	18.4	1 12	9 41.59	+26 19.5	1.613	2.512	11.3	21.4
1 22	10 7.93	-49 3.8	0.660	1.331	45.2	18.5	1 22	9 32.53	+27 19.5	1.572	2.521	7.5	21.2
2 1	9 33.43	-52 54.1	0.711	1.392	41.9	18.7	2 1	9 21.47	+28 12.2	1.558	2.529	4.8	21.1
2 11	8 58.74	-54 14.1	0.769	1.452	39.4	18.9	2 11	9 9.74	+28 49.8	1.573	2.537	6.0	21.2
2 21	8 30.14	-53 34.6	0.833	1.511	37.4	19.1	2 21	8 58.81	+29 7.6	1.615	2.544	9.6	21.4
3 2	8 11.03	-51 35.6	0.901	1.568	35.9	19.3	3 2	8 49.97	+29 5.0	1.682	2.550	13.2	21.6
3 12	8 1.46	-48 54.7	0.974	1.623	34.8	19.5	3 12	8 44.06	+28 44.3	1.771	2.557	16.4	21.9
333896	1999 BE ₃₃		2 6.1 152°35	0°5/ 6.4	17		172066	2001 YB ₃₉		2 6.1 52°84	1°5/ 7.2	17	
1 2	9 40.45	+13 30.1	2.443	3.240	11.7	21.2	1 2	9 38.34	+10 17.9	2.236	3.032	12.7	20.5
1 12	9 35.20	+13 36.7	2.360	3.245	8.9	21.0	1 12	9 33.75	+10 21.1	2.159	3.040	9.8	20.3
1 22	9 28.17	+13 50.7	2.302	3.249	5.6	20.8	1 22	9 27.32	+10 34.9	2.105	3.048	6.4	20.1
2 1	9 19.90	+14 9.7	2.272	3.252	2.1	20.6	2 1	9 19.63	+10 56.9	2.079	3.056	2.8	19.9
2 11	9 11.20	+14 30.3	2.273	3.256	1.8	20.6	2 11	9 11.51	+11 23.8	2.082	3.065	2.1	19.9
2 21	9 2.89	+14 49.5	2.304	3.259	5.3	20.8	2 21	9 3.83	+11 52.1	2.115	3.073	5.5	20.1
3 2	8 55.77	+15 4.6	2.363	3.262	8.6	21.0	3 2	8 57.38	+12 18.1	2.176	3.082	8.9	20.3
3 12	8 50.43	+15 13.9	2.448	3.265	11.5	21.2	3 12	8 52.77	+12 39.3	2.261	3.091	11.9	20.5
49301	1998 VD ₆		2 6.1 201°67	5°6/ 1.8	18		103065	1999 XH ₁₄₁		2 6.1 57°10	1°5/ 6.8	18	
1 2	9 44.60	+28 56.0	1.948	2.773	13.2	18.9	1 2	9 43.49	+11 12.7	1.289	2.113	18.7	18.9
1 12	9 39.09	+30 6.6	1.875	2.771	10.2	18.7	1 12	9 38.82	+11 16.2	1.224	2.120	14.4	18.7
1 22	9 30.96	+31 16.6	1.826	2.768	7.3	18.5	1 22	9 31.03	+11 36.4	1.178	2.128	9.3	18.4
2 1	9 20.93	+32 17.4	1.804	2.765	5.6	18.4	2 1	9 21.00	+12 9.4	1.157	2.136	3.8	18.1
2 11	9 10.17	+33 1.4	1.812	2.761	6.9	18.5	2 11	9 10.19	+12 48.9	1.161	2.145	2.9	18.1
2 21	8 59.97	+33 24.2	1.846	2.758	9.8	18.7	2 21	9 0.21	+13 27.9	1.192	2.153	8.3	18.4
3 2	8 51.53	+33 24.9	1.906	2.754	12.9	18.9	3 2	8 52.48	+14 0.8	1.247	2.162	13.3	18.7
3 12	8 45.69	+33 5.8	1.987	2.749	15.7	19.0	3 12	8 47.90	+14 23.6	1.323	2.171	17.6	19.0
284856	2009 BG ₁₄₇		2 6.1 139°45	2°3/ 8.3	17		313030	2000 DR ₉₆		2 6.1 1°55	1°4/ 6.9	18	
1 2	9 36.12	+5 13.4	2.534	3.308	12.0	21.2	1 2	9 37.00	+10 43.9	1.270	2.103	18.4	19.9
1 12	9 31.94	+5 38.5	2.447	3.311	9.4	21.1	1 12	9 34.06	+10 57.9	1.199	2.101	14.1	19.6
1 22	9 26.15	+6 17.4	2.383	3.315	6.5	20.9	1 22	9 28.15	+11 30.5	1.148	2.100	9.1	19.3
2 1	9 19.22	+7 8.2	2.348	3.318	3.5	20.7	2 1	9 20.05	+12 17.9	1.120	2.100	3.7	19.0
2 11	9 11.86	+8 7.2	2.342	3.321	2.5	20.6	2 11	9 11.10	+13 13.0	1.118	2.102	2.8	18.9
2 21	9 4.80	+9 10.0	2.367	3.324	5.0	20.8	2 21	9 2.81	+14 7.8	1.140	2.104	8.2	19.3
3 2	8 58.76	+10 11.9	2.420	3.327	8.1	21.0	3 2	8 56.56	+14 55.2	1.187	2.107	13.3	19.6
3 12	8 54.30	+11 8.9	2.500	3.330	10.9	21.2	3 12	8 53.30	+15 30.4	1.254	2.112	17.7	19.8
181753	1996 RM ₁₉		2 6.1 194°11	2°6/ 8.4	18		215279	2001 QN ₈₅		2 6.1 121°11	7°3/31.6	18	
1 2	9 38.68	+4 15.2	2.233	3.005	13.5	20.7	1 2	9 48.17	+35 26.9	2.055	2.870	13.0	20.4
1 12	9 34.13	+4 49.5	2.140	3.004	10.7	20.5	1 12	9 41.60	+36 41.7	2.002	2.884	10.4	20.3
1 22	9 27.65	+5 41.2	2.071	3.001	7.4	20.3	1 22	9 32.38	+37 48.9	1.975	2.898	8.2	20.2
2 1	9 19.77	+6 47.9	2.029	2.999	4.0	20.1	2 1	9 21.39	+38 39.8	1.975	2.911	7.3	20.1
2 11	9 11.31	+8 5.1	2.017	2.996	2.8	20.0	2 11	9 9.89	+39 8.0	2.002	2.924	8.3	20.2
2 21	9 3.15	+9 26.8	2.035	2.992	5.7	20.2	2 21	8 59.20	+39 11.0	2.057	2.937	10.5	20.4
3 2	8 56.16	+10 47.1	2.082	2.989	9.2	20.4	3 2	8 50.49	+38 50.2	2.136	2.949	12.9	20.6
3 12	8 51.02	+12 0.6	2.154	2.984	12.4	20.6	3 12	8 44.49	+38 9.9	2.235	2.961	15.2	20.7
381602	2008 VH ₆₆		2 6.1 356°34	4°3/ 7.6	17		271677	2004 RF ₇₇		2 6.1 167°87	1°7/ 7.7	18	
1 2	9 47.82	+8 23.0	1.893	2.674	15.3	19.5	1 2	9 39.11	+7 17.7	2.561	3.337	11.9	21.6
1 12	9 41.22	+7 0.0	1.804										

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
423124	2004 CW		2 6.1 13°48'	4.3/ 4.4	18		496717	2016 FP ₂₇		2 6.1 28°62'	0.5/ 5.7	18	
1 2	9 43.24	+26 3.5	1.304	2.151	17.1	19.2	1 2	9 39.79	+15 1.8	1.873	2.689	14.0	21.6
1 12	9 38.59	+26 2.8	1.250	2.161	12.9	19.0	1 12	9 35.31	+15 32.4	1.795	2.691	10.6	21.4
1 22	9 30.76	+26 0.1	1.217	2.172	8.4	18.8	1 22	9 28.54	+16 13.0	1.740	2.692	6.6	21.2
2 1	9 20.85	+25 48.7	1.209	2.185	4.6	18.6	2 1	9 20.16	+16 59.3	1.712	2.694	2.2	20.9
2 11	9 10.47	+25 23.5	1.226	2.200	5.6	18.7	2 11	9 11.16	+17 45.3	1.713	2.695	2.5	20.9
2 21	9 1.23	+24 43.1	1.268	2.216	9.7	19.0	2 21	9 2.65	+18 25.8	1.742	2.697	6.8	21.2
3 2	8 54.43	+23 48.9	1.335	2.234	13.9	19.3	3 2	8 55.65	+18 56.9	1.798	2.699	10.8	21.4
3 12	8 50.81	+22 44.5	1.422	2.253	17.5	19.5	3 12	8 50.91	+19 16.5	1.878	2.701	14.2	21.6
383778	2007 VX ₃₁₅		2 6.1 109°96'	4.4/ 1.4	18		428405	2007 TY ₅₂		2 6.1 81°41'	3.8/ 9.3	17	
1 2	9 41.18	+29 21.4	2.750	3.565	10.1	21.5	1 2	9 37.40	+ 2 28.3	2.289	3.054	13.4	21.0
1 12	9 35.70	+30 36.9	2.696	3.586	7.7	21.4	1 12	9 33.05	+ 2 25.8	2.207	3.061	10.8	20.8
1 22	9 28.45	+31 50.3	2.669	3.607	5.5	21.3	1 22	9 26.92	+ 2 39.0	2.147	3.068	7.8	20.6
2 1	9 20.02	+32 55.7	2.671	3.627	4.4	21.2	2 1	9 19.56	+ 3 6.9	2.115	3.075	4.9	20.5
2 11	9 11.21	+33 47.9	2.704	3.646	5.4	21.3	2 11	9 11.75	+ 3 47.0	2.111	3.083	3.8	20.4
2 21	9 2.85	+34 23.9	2.767	3.666	7.4	21.5	2 21	9 4.31	+ 4 35.0	2.136	3.090	5.8	20.6
3 2	8 55.71	+34 43.0	2.856	3.684	9.6	21.6	3 2	8 58.03	+ 5 26.4	2.189	3.097	8.8	20.8
3 12	8 50.38	+34 46.4	2.967	3.703	11.6	21.8	3 12	8 53.50	+ 6 16.4	2.268	3.104	11.6	20.9
259061	2002 US ₆		2 6.1 59°71'	0.1/ 6.2	16		153991	2002 AY ₁₆₂		2 6.1 5°07'	1.4/ 7.1	18	
1 2	9 44.45	+11 34.6	1.476	2.290	17.3	21.0	1 2	9 36.59	+ 8 20.7	1.643	2.454	15.9	19.3
1 12	9 38.81	+12 27.4	1.436	2.329	12.9	20.8	1 12	9 33.18	+ 9 4.6	1.564	2.454	12.3	19.1
1 22	9 30.58	+13 34.8	1.418	2.368	8.0	20.6	1 22	9 27.36	+10 7.9	1.507	2.454	8.0	18.8
2 1	9 20.74	+14 49.8	1.426	2.407	2.7	20.4	2 1	9 19.79	+11 26.4	1.476	2.455	3.4	18.5
2 11	9 10.61	+16 4.0	1.463	2.446	2.5	20.4	2 11	9 11.51	+12 52.8	1.473	2.456	2.4	18.5
2 21	9 1.49	+17 10.0	1.527	2.484	7.3	20.8	2 21	9 3.70	+14 18.9	1.497	2.458	7.0	18.7
3 2	8 54.45	+18 2.8	1.618	2.522	11.5	21.2	3 2	8 57.45	+15 37.0	1.548	2.460	11.4	19.0
3 12	8 50.12	+18 40.4	1.732	2.560	15.0	21.5	3 12	8 53.61	+16 41.9	1.621	2.463	15.2	19.2
384735	2011 KZ ₃₂		2 6.1 187°03'	4.7/ 1.8	18		357037	2000 NU ₂₃		2 6.1 124°90'	0.7/ 6.5	18	
1 2	9 40.26	+27 26.5	2.222	3.047	11.8	20.8	1 2	9 47.44	+12 39.7	2.103	2.892	13.7	21.8
1 12	9 35.52	+28 39.5	2.150	3.047	9.0	20.6	1 12	9 40.55	+12 50.4	2.035	2.915	10.4	21.6
1 22	9 28.60	+29 53.0	2.103	3.047	6.3	20.4	1 22	9 31.53	+13 10.3	1.992	2.937	6.5	21.4
2 1	9 20.14	+30 59.9	2.084	3.047	4.7	20.3	2 1	9 21.12	+13 36.0	1.978	2.958	2.4	21.2
2 11	9 11.08	+31 53.6	2.094	3.047	5.9	20.4	2 11	9 10.31	+14 3.4	1.995	2.978	2.0	21.2
2 21	9 2.46	+32 29.8	2.133	3.046	8.5	20.5	2 21	9 0.15	+14 28.6	2.042	2.997	6.0	21.5
3 2	8 55.25	+32 46.9	2.197	3.046	11.4	20.7	3 2	8 51.57	+14 48.7	2.118	3.015	9.6	21.8
3 12	8 50.19	+32 45.8	2.283	3.045	13.9	20.9	3 12	8 45.20	+15 1.8	2.220	3.032	12.7	22.0
42444	3064 T ₋₃		2 6.1 9°79'	5.3/ 3.1	18		32078	Jamesavoldelli		2 6.1 248°80'	0.1/ 5.9	18	
1 2	9 41.66	+26 30.2	1.452	2.296	15.9	19.3	1 2	9 41.62	+12 56.4	1.559	2.378	16.3	19.4
1 12	9 37.41	+27 17.4	1.389	2.298	12.1	19.0	1 12	9 37.26	+13 38.3	1.474	2.370	12.4	19.2
1 22	9 30.12	+28 5.0	1.349	2.301	8.1	18.8	1 22	9 30.08	+14 36.1	1.411	2.363	7.8	18.9
2 1	9 20.71	+28 44.2	1.333	2.305	5.4	18.7	2 1	9 20.78	+15 44.6	1.373	2.355	2.7	18.5
2 11	9 10.60	+29 6.9	1.344	2.309	6.7	18.8	2 11	9 10.53	+16 55.8	1.364	2.347	2.7	18.5
2 21	9 1.34	+29 8.8	1.380	2.315	10.4	19.0	2 21	9 0.72	+18 1.8	1.382	2.339	8.0	18.8
3 2	8 54.27	+28 49.5	1.440	2.321	14.2	19.2	3 2	8 52.70	+18 56.1	1.426	2.330	12.8	19.1
3 12	8 50.23	+28 11.9	1.519	2.328	17.6	19.5	3 12	8 47.44	+19 35.3	1.491	2.322	16.9	19.3
494768	2006 HE ₇₃		2 6.1 240°27'	3.7/ 8.6	17		321972	2010 UV ₃₁		2 6.1 151°26'	0.1/ 5.9	18	
1 2	9 40.89	+ 4 1.7	1.848	2.627	15.7	22.8	1 2	9 42.12	+13 43.5	2.067	2.870	13.4	21.6
1 12	9 36.29	+ 4 6.3	1.750	2.615	12.5	22.5	1 12	9 36.81	+14 17.9	1.989	2.877	10.1	21.4
1 22	9 29.28	+ 4 29.6	1.674	2.604	8.9	22.3	1 22	9 29.37	+15 2.6	1.935	2.885	6.3	21.2
2 1	9 20.45	+ 5 11.0	1.624	2.591	5.2	22.0	2 1	9 20.43	+15 53.2	1.910	2.891	2.1	21.0
2 11	9 10.78	+ 6 6.8	1.602	2.579	3.9	21.9	2 11	9 10.94	+16 44.2	1.914	2.897	2.1	21.0
2 21	9 1.39	+ 7 11.3	1.608	2.566	7.0	22.1	2 21	9 1.92	+17 30.7	1.949	2.903	6.3	21.2
3 2	8 53.41	+ 8 17.9	1.642	2.552	11.0	22.3	3 2	8 54.33	+18 8.7	2.011	2.908	10.0	21.5
3 12	8 47.74	+ 9 20.5	1.699	2.538	14.7	22.5	3 12	8 48.86	+18 36.2	2.097	2.912	13.2	21.7
246176	2007 RV ₃₂		2 6.1 97°65'	5.2/ 2.9	18		148845	2001 VE ₂₂		2 6.1 126°76'	1.3/ 5.2	18	
1 2	9 50.49	+27 59.8	1.787	2.607	14.5	20.4	1 2	9 42.73	+17 34.1	2.071	2.882	13.1	20.4
1 12	9 43.26	+28 57.4	1.741	2.634	11.0	20.2	1 12	9 37.23	+18 7.4	1.999	2.893	9.8	20.2
1 22	9 33.34	+29 52.2	1.718	2.662	7.5	20.0	1 22	9 29.59	+18 47.3	1.952	2.904	6.0	20.0
2 1	9 21.71	+30 35.9	1.723	2.688	5.3	20.0	2 1	9 20.49	+19 29.1	1.934	2.915	2.2	19.8
2 11	9 9.73	+31 1.9	1.758	2.714	6.3	20.1	2 11	9 10.90	+20 7.5	1.945	2.925	2.8	19.9
2 21	8 58.76	+31 7.4	1.820	2.739	9.3	20.3	2 21	9 1.85	+20 38.0	1.986	2.935	6.6	20.1
3 2	8 49.96	+30 53.2	1.908	2.764	12.5	20.6	3 2	8 54.30	+20 58.2	2.054	2.944	10.2	20.4
3 12	8 43.99	+30 22.7	2.018	2.788	15.2	20.8	3 12	8 48.90	+21 7.0	2.146	2.953	13.2	20.6
426212	2012 KF ₄₆		2 6.1 281°55'	7.3/11.2	18		412698	2014 OB ₂₇₇		2 6.1 223°99'	1.2/ 5.4	18	
1 2	9 38.22	- 5 5.7	2.007	2.741	16.0	21.1	1 2	9 45.62	+17 49.8	1.715	2.532	15.1	21.1
1 12	9 34.20	- 5 32.9	1.897	2.718	13.7	20.8	1 12	9 40.01	+18 5.8	1.630	2.526	11.4	20.9
1 22	9 27.97	- 5 38.3	1.807	2.695	11.0	20.6	1 22	9 31.65	+18 29.1	1.568	2.521	7.1	20.6
2 1	9 20.01	- 5 19.3	1.740	2.673	8.5	20.4	2 1	9 21.28	+18 54.9	1.533	2.515	2.5	20.3
2 11	9 11.18	- 4 36.2	1.700	2.649	7.3	20.3	2 11	9 10.10	+19 17.3	1.527	2.508	3.1	20.3
2 21	9 2.49	- 3 32.4	1.687	2.626	8.5	20.3	2 21	8 59.46	+19 31.8	1.549	2.502	7.8	20.6
3 2	8 54.98	- 2 14.0	1.701	2.603	11.2	20.4	3 2	8 50.63	+19 35.8	1.598	2.495	12.1	20.8
3 12	8 49.53	- 0 48.9	1.739	2.579	14.4	20.6	3 12	8 44.50	+19 28.4	1.669	2.487	15.9	21.1
453827	2011 SN ₁₃₇		2 6.1 77°60'	0.3/ 5.9	18		448132	2008 SX ₄₀		2 6.1 102°36'	0.5/ 6.4	16	
1 2	9 45.41	+14 40.3	1.487	2.306	16.9	21.5	1 2	9 45.50	+11 35.7	1.617	2.423	16.4	22.1
1 12	9 39.77	+15 3.4	1.431	2.32									

EPHEMERIDES

2 6.1

2 6.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
288493	2004 <i>FU</i> ₄₈		2 6.1 343°82	2.4/ 4.6	18		318677	2005 <i>PO</i> ₁₉		2 6.1 326°23	2.7/ 4.8	18	
1 2	9 41.56	+21 55.5	1.944	2.769	13.3	20.1	1 2	9 44.46	+21 49.9	1.541	2.373	15.7	20.0
1 12	9 36.63	+22 10.4	1.863	2.764	10.0	19.9	1 12	9 39.45	+22 0.4	1.460	2.364	11.9	19.7
1 22	9 29.36	+22 27.9	1.806	2.759	6.3	19.7	1 22	9 31.45	+22 14.4	1.400	2.355	7.6	19.4
2 1	9 20.45	+22 43.4	1.776	2.755	2.9	19.4	2 1	9 21.25	+22 26.0	1.367	2.346	3.3	19.2
2 11	9 10.94	+22 52.0	1.774	2.751	3.7	19.5	2 11	9 10.19	+22 29.1	1.361	2.338	4.2	19.2
2 21	9 1.95	+22 50.5	1.801	2.747	7.4	19.7	2 21	8 59.78	+22 19.9	1.381	2.331	8.8	19.4
3 2	8 54.54	+22 37.5	1.855	2.745	11.1	19.9	3 2	8 51.40	+21 57.1	1.427	2.324	13.3	19.7
3 12	8 49.45	+22 13.4	1.931	2.742	14.3	20.1	3 12	8 45.99	+21 21.9	1.493	2.317	17.2	19.9
80068	1999 <i>JM</i> ₉₄		2 6.1 276°63	4.1/ 9.9	18		453081	2007 <i>VB</i> ₅₅		2 6.1 49°88	4.1/ 3.6	18	
1 2	9 35.76	- 0 26.8	2.437	3.187	13.1	19.2	1 2	9 42.86	+21 28.0	1.320	2.164	17.2	20.8
1 12	9 31.91	- 0 10.4	2.328	3.171	10.7	19.0	1 12	9 38.31	+22 39.6	1.273	2.183	12.8	20.6
1 22	9 26.31	+ 0 24.3	2.243	3.154	8.0	18.8	1 22	9 30.66	+23 57.5	1.247	2.203	8.1	20.4
2 1	9 19.42	+ 1 16.9	2.183	3.138	5.3	18.6	2 1	9 20.93	+25 11.4	1.246	2.223	4.4	20.2
2 11	9 11.92	+ 2 24.7	2.153	3.122	4.2	18.5	2 11	9 10.63	+26 11.4	1.271	2.243	5.7	20.3
2 21	9 4.61	+ 3 43.0	2.152	3.105	5.9	18.6	2 21	9 1.33	+26 50.9	1.323	2.265	10.0	20.6
3 2	8 58.26	+ 5 6.1	2.180	3.088	8.8	18.7	3 2	8 54.37	+27 8.0	1.398	2.286	14.1	20.9
3 12	8 53.55	+ 6 28.0	2.234	3.072	11.7	18.9	3 12	8 50.53	+27 4.4	1.493	2.307	17.6	21.2
33008	1997 <i>EU</i> ₁₇		2 6.1 132°99	1.8/ 4.7	18		143103	2002 <i>XK</i> ₂₁		2 6.1 136°51	0.5/ 6.4	18	
1 2	9 41.77	+21 30.8	2.542	3.352	11.0	18.1	1 2	9 43.33	+13 1.5	1.996	2.797	13.9	20.0
1 12	9 36.20	+21 43.8	2.462	3.355	8.2	18.0	1 12	9 37.75	+13 14.2	1.919	2.806	10.5	19.8
1 22	9 28.82	+21 58.6	2.408	3.359	5.1	17.8	1 22	9 29.96	+13 36.8	1.867	2.815	6.7	19.6
2 1	9 20.22	+22 11.8	2.383	3.362	2.2	17.6	2 1	9 20.66	+14 6.0	1.843	2.823	2.4	19.3
2 11	9 11.22	+22 19.7	2.388	3.365	2.9	17.6	2 11	9 10.84	+14 37.1	1.848	2.831	2.1	19.3
2 21	9 2.66	+22 20.1	2.424	3.368	5.9	17.8	2 21	9 1.55	+15 6.0	1.882	2.839	6.2	19.6
3 2	8 55.34	+22 11.7	2.488	3.371	8.9	18.0	3 2	8 53.76	+15 29.2	1.945	2.846	10.1	19.9
3 12	8 49.84	+21 54.7	2.577	3.374	11.6	18.2	3 12	8 48.19	+15 44.6	2.031	2.853	13.3	20.1
53660	2000 <i>DT</i> ₆₁		2 6.1 188°99	1.1/ 7.0	18		326430	2001 <i>TY</i> ₂₄₀		2 6.1 32°01	8.6/31.6	18	
1 2	9 40.66	+ 9 40.7	2.178	2.969	13.2	19.9	1 2	9 47.02	+36 4.9	1.678	2.505	14.9	20.0
1 12	9 35.69	+10 10.7	2.089	2.968	10.2	19.7	1 12	9 41.38	+37 17.6	1.620	2.508	12.0	19.9
1 22	9 28.69	+10 53.7	2.024	2.967	6.6	19.5	1 22	9 32.60	+38 21.8	1.586	2.512	9.6	19.7
2 1	9 20.23	+11 46.7	1.987	2.965	2.7	19.2	2 1	9 21.61	+39 6.9	1.577	2.516	8.6	19.7
2 11	9 11.17	+12 44.9	1.980	2.963	2.0	19.2	2 11	9 9.95	+39 25.1	1.594	2.520	9.8	19.8
2 21	9 2.45	+13 42.9	2.003	2.960	5.8	19.4	2 21	8 59.23	+39 13.6	1.636	2.525	12.3	19.9
3 2	8 54.99	+14 36.1	2.055	2.957	9.5	19.6	3 2	8 50.84	+38 34.6	1.701	2.529	15.1	20.1
3 12	8 49.51	+15 20.9	2.131	2.953	12.8	19.8	3 12	8 45.63	+37 33.8	1.785	2.534	17.7	20.3
418355	2008 <i>GM</i> ₉₈		2 6.1 315°35	5.9/10.1	17		224913	2007 <i>DF</i> ₁₈		2 6.1 291°22	1.4/ 5.2	18	
1 2	9 35.94	- 0 33.7	1.582	2.362	17.8	20.8	1 2	9 42.39	+18 21.6	1.852	2.671	14.0	20.5
1 12	9 32.95	- 0 37.5	1.485	2.344	14.7	20.5	1 12	9 37.35	+18 42.2	1.770	2.669	10.6	20.2
1 22	9 27.42	- 0 15.6	1.406	2.326	11.1	20.3	1 22	9 29.89	+19 9.3	1.713	2.666	6.6	20.0
2 1	9 19.90	+ 0 33.3	1.351	2.309	7.5	20.0	2 1	9 20.68	+19 38.2	1.682	2.664	2.4	19.7
2 11	9 11.41	+ 1 46.4	1.322	2.292	5.9	19.9	2 11	9 10.81	+20 3.5	1.681	2.661	3.0	19.8
2 21	9 3.18	+ 3 17.0	1.319	2.276	8.2	20.0	2 21	9 1.45	+20 20.9	1.707	2.659	7.3	20.0
3 2	8 56.45	+ 4 55.8	1.341	2.260	12.2	20.1	3 2	8 53.72	+20 27.8	1.761	2.656	11.3	20.2
3 12	8 52.23	+ 6 33.0	1.386	2.245	16.2	20.3	3 12	8 48.39	+20 23.5	1.836	2.654	14.7	20.5
161106	2002 <i>QK</i> ₁₄		2 6.1 103°75	3.8/ 9.2	18		68592	2002 <i>AS</i> ₂₇		2 6.1 9°91	6.6/31.6	18	
1 2	9 38.51	+ 2 42.1	2.271	3.035	13.5	20.1	1 2	9 41.07	+29 10.4	1.759	2.595	13.9	19.3
1 12	9 33.89	+ 2 37.0	2.190	3.044	10.8	19.9	1 12	9 36.76	+30 52.7	1.694	2.595	10.8	19.1
1 22	9 27.45	+ 2 47.2	2.132	3.053	7.8	19.7	1 22	9 29.72	+32 35.2	1.654	2.596	7.9	18.9
2 1	9 19.77	+ 3 12.1	2.101	3.062	4.9	19.6	2 1	9 20.66	+34 7.5	1.641	2.597	6.6	18.8
2 11	9 11.64	+ 3 49.0	2.099	3.071	3.8	19.5	2 11	9 10.81	+35 20.0	1.655	2.598	8.1	18.9
2 21	9 3.90	+ 4 33.8	2.126	3.079	5.9	19.6	2 21	9 1.53	+36 6.9	1.696	2.599	11.0	19.1
3 2	8 57.34	+ 5 22.0	2.181	3.088	8.8	19.8	3 2	8 54.08	+36 26.7	1.760	2.600	14.1	19.3
3 12	8 52.59	+ 6 9.0	2.261	3.096	11.7	20.0	3 12	8 49.37	+36 21.9	1.843	2.602	16.9	19.5
38276	1999 <i>RH</i> ₄₉		2 6.1 346°10	0.0/ 5.9	18		99359	2001 <i>XU</i> ₁₇₉		2 6.1 328°47	2.4/ 4.6	18	
1 2	9 35.97	+11 5.0	2.368	3.168	12.0	18.1	1 2	9 38.20	+16 47.2	1.270	2.115	17.6	18.7
1 12	9 32.07	+12 16.3	2.280	3.167	9.1	17.9	1 12	9 35.29	+17 51.6	1.191	2.104	13.3	18.4
1 22	9 26.39	+13 40.8	2.218	3.166	5.7	17.7	1 22	9 29.18	+19 12.4	1.134	2.093	8.3	18.1
2 1	9 19.43	+15 14.1	2.184	3.166	1.9	17.4	2 1	9 20.58	+20 41.2	1.101	2.082	3.3	17.7
2 11	9 11.94	+16 49.8	2.182	3.165	1.9	17.4	2 11	9 10.85	+22 6.7	1.093	2.073	4.6	17.8
2 21	9 4.71	+18 21.5	2.211	3.164	5.6	17.7	2 21	9 1.64	+23 18.3	1.111	2.064	10.0	18.0
3 2	8 58.57	+19 43.7	2.268	3.164	9.1	17.9	3 2	8 54.55	+24 9.1	1.151	2.056	15.2	18.3
3 12	8 54.14	+20 53.0	2.351	3.164	12.0	18.1	3 12	8 50.70	+24 36.7	1.211	2.048	19.6	18.6
432162	2009 <i>BM</i> ₁₅₉		2 6.1 118°95	2.0/ 4.5	17		366850	2005 <i>QH</i> ₁₈₈		2 6.1 148°16	0.3/ 6.3	18	
1 2	9 41.45	+21 50.6	2.461	3.274	11.2	21.2	1 2	9 41.64	+13 2.0	2.016	2.820	13.6	21.8
1 12	9 36.02	+22 9.9	2.384	3.278	8.4	21.0	1 12	9 36.52	+13 23.6	1.937	2.825	10.4	21.6
1 22	9 28.73	+22 31.2	2.332	3.283	5.2	20.9	1 22	9 29.23	+13 55.5	1.882	2.830	6.5	21.3
2 1	9 20.20	+22 50.6	2.309	3.287	2.4	20.7	2 1	9 20.44	+14 34.3	1.854	2.835	2.3	21.1
2 11	9 11.25	+23 4.3	2.316	3.291	3.1	20.7	2 11	9 11.08	+15 15.0	1.856	2.839	2.1	21.0
2 21	9 2.76	+23 9.5	2.353	3.296	6.2	20.9	2 21	9 2.19	+15 52.8	1.887	2.843	6.2	21.3
3 2	8 55.53	+23 4.9	2.418	3.300	9.2	21.1	3 2	8 54.74	+16 24.1	1.945	2.847	10.1	21.6
3 12	8 50.18	+22 50.8	2.508	3.304	11.9	21.3	3 12	8 49.44	+16 46.4	2.028	2.850	13.3	21.8
59284	1999 <i>CM</i> ₅₀		2 6.1 32°83	0.4/ 6.3	18		338070	2002 <i>PV</i> ₂₀		2 6.1 102°67	0.2/ 6.2	17	
1 2	9 39.05	+11 19.1	1.149	1.988	19.6	18.6	1 2	9 45.19	+				

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
205605	2001 <i>UL</i> ₉₀		2 6.1 101°25	0°8/ 5.4 18			277612	2006 <i>AO</i> ₁₀₀		2 6.1 95°18	1°3/ 7.0 18		
1 2	9 39.09	+16 24.4	2.497	3.303	11.2	21.2	1 2	9 41.62	+10 42.8	2.024	2.820	13.9	21.4
1 12	9 34.18	+16 57.5	2.427	3.318	8.4	21.0	1 12	9 36.39	+10 49.7	1.953	2.835	10.6	21.2
1 22	9 27.57	+17 36.9	2.382	3.333	5.1	20.8	1 22	9 29.09	+11 7.8	1.905	2.849	6.9	21.0
2 1	9 19.82	+18 18.8	2.366	3.347	1.8	20.6	2 1	9 20.39	+11 34.5	1.884	2.863	2.9	20.8
2 11	9 11.71	+18 58.7	2.380	3.361	2.1	20.7	2 11	9 11.24	+12 5.8	1.894	2.876	2.1	20.7
2 21	9 4.02	+19 33.2	2.425	3.375	5.5	20.9	2 21	9 2.63	+12 37.3	1.932	2.890	5.9	21.0
3 2	8 57.50	+19 59.6	2.498	3.389	8.6	21.1	3 2	8 55.46	+13 5.4	1.998	2.903	9.6	21.2
3 12	8 52.70	+20 16.6	2.595	3.402	11.2	21.3	3 12	8 50.39	+13 27.3	2.088	2.916	12.8	21.5
35161	1993 <i>OW</i>		2 6.1 118°75	4°8/ 1.9 18			226629	2004 <i>EX</i> ₇₇		2 6.1 10°69	1°4/ 6.7 18		
1 2	9 46.34	+23 28.8	1.891	2.711	13.8	19.1	1 2	9 39.85	+12 14.4	1.008	1.857	20.9	20.1
1 12	9 40.32	+25 31.7	1.836	2.733	10.3	19.0	1 12	9 36.85	+12 10.1	0.948	1.858	16.1	19.8
1 22	9 31.73	+27 38.8	1.807	2.755	6.8	18.8	1 22	9 30.23	+12 24.1	0.905	1.861	10.4	19.5
2 1	9 21.32	+29 39.4	1.808	2.775	4.8	18.7	2 1	9 20.95	+12 52.8	0.884	1.865	4.1	19.2
2 11	9 10.26	+31 23.2	1.840	2.795	6.3	18.8	2 11	9 10.70	+13 28.6	0.885	1.870	3.2	19.1
2 21	8 59.82	+32 43.5	1.901	2.814	9.4	19.1	2 21	9 1.39	+14 3.6	0.911	1.876	9.4	19.5
3 2	8 51.17	+33 38.0	1.988	2.832	12.6	19.3	3 2	8 54.69	+14 31.1	0.958	1.884	15.1	19.8
3 12	8 45.11	+34 8.4	2.097	2.850	15.3	19.5	3 12	8 51.62	+14 47.0	1.023	1.892	19.9	20.1
92452	2000 <i>KV</i> ₂₀		2 6.1 196°04	0°6/ 5.7 18			152752	1999 <i>CX</i> ₃		2 6.1 271°59	7°1/ 11.6 18		
1 2	9 44.39	+15 0.8	1.994	2.799	13.7	21.3	1 2	9 38.98	- 7 17.4	1.193	1.960	23.2	20.0
1 12	9 38.75	+15 37.3	1.906	2.796	10.4	21.1	1 12	9 36.13	- 6 17.1	1.100	1.947	19.6	19.7
1 22	9 30.74	+16 23.9	1.843	2.793	6.5	20.9	1 22	9 29.93	- 4 25.9	1.022	1.935	15.1	19.4
2 1	9 21.00	+17 15.9	1.807	2.788	2.2	20.6	2 1	9 20.96	- 1 40.6	0.967	1.922	10.1	19.1
2 11	9 10.53	+18 7.3	1.801	2.783	2.5	20.6	2 11	9 10.52	+ 1 51.6	0.937	1.909	7.1	18.9
2 21	9 0.47	+18 52.8	1.826	2.777	6.8	20.8	2 21	9 0.32	+ 5 51.9	0.934	1.896	9.8	19.0
3 2	8 51.90	+19 28.2	1.878	2.771	10.8	21.1	3 2	8 52.14	+ 9 55.3	0.957	1.883	15.1	19.2
3 12	8 45.63	+19 51.7	1.953	2.763	14.2	21.3	3 12	8 47.37	+13 38.7	1.004	1.870	20.5	19.5
218702	2005 <i>TR</i> ₁₆₇		2 6.1 253°17	0°4/ 6.4 18			209969	2006 <i>HT</i> ₁₀		2 6.1 100°33	0°7/ 6.6 18		
1 2	9 40.61	+12 53.8	1.901	2.709	14.2	21.2	1 2	9 41.93	+10 30.7	1.623	2.432	16.2	20.2
1 12	9 35.97	+13 13.3	1.814	2.705	10.8	20.9	1 12	9 37.14	+11 14.7	1.556	2.446	12.3	19.9
1 22	9 29.03	+13 44.3	1.751	2.700	6.8	20.7	1 22	9 29.81	+12 15.0	1.510	2.459	7.8	19.7
2 1	9 20.41	+14 23.2	1.714	2.695	2.5	20.4	2 1	9 20.69	+13 26.6	1.491	2.471	2.9	19.4
2 11	9 11.11	+15 4.8	1.707	2.690	2.2	20.4	2 11	9 10.96	+14 41.8	1.500	2.484	2.3	19.4
2 21	9 2.21	+15 44.2	1.728	2.685	6.6	20.6	2 21	9 1.86	+15 53.1	1.538	2.496	7.1	19.7
3 2	8 54.78	+16 17.0	1.776	2.680	10.7	20.9	3 2	8 54.53	+16 54.3	1.602	2.508	11.5	20.0
3 12	8 49.60	+16 40.4	1.847	2.675	14.2	21.1	3 12	8 49.76	+17 41.8	1.689	2.520	15.2	20.3
230603	2003 <i>FN</i> ₂₂		2 6.1 112°04	0°4/ 6.4 18			105500	2000 <i>QL</i> ₂₃₁		2 6.1 182°20	1°2/ 6.9 18		
1 2	9 39.47	+11 34.0	1.929	2.735	14.1	20.9	1 2	9 43.95	+10 41.1	1.951	2.745	14.4	21.3
1 12	9 35.00	+12 11.9	1.851	2.740	10.7	20.7	1 12	9 38.39	+10 58.0	1.865	2.746	11.1	21.0
1 22	9 28.35	+13 3.0	1.797	2.745	6.8	20.5	1 22	9 30.50	+11 27.6	1.803	2.747	7.2	20.8
2 1	9 20.16	+14 3.1	1.769	2.750	2.5	20.2	2 1	9 20.94	+12 6.8	1.768	2.747	2.9	20.5
2 11	9 11.37	+15 6.3	1.771	2.754	2.1	20.2	2 11	9 10.70	+12 50.8	1.763	2.746	2.2	20.5
2 21	9 3.04	+16 6.4	1.802	2.759	6.4	20.5	2 21	9 0.90	+13 34.4	1.787	2.744	6.4	20.7
3 2	8 56.15	+16 58.7	1.860	2.764	10.3	20.7	3 2	8 52.59	+14 13.2	1.839	2.742	10.5	21.0
3 12	8 51.41	+17 39.7	1.942	2.768	13.7	20.9	3 12	8 46.56	+14 43.9	1.915	2.739	13.9	21.2
237510	2000 <i>RM</i> ₆₉		2 6.1 125°96	3°0/ 4.2 18 R			223727	2004 <i>RX</i> ₁₁₆		2 6.1 168°55	2°7/ 3.9 18		
1 2	9 47.12	+21 43.8	1.829	2.647	14.3	20.9	1 2	9 42.19	+21 50.0	2.209	3.025	12.2	20.8
1 12	9 40.81	+22 28.8	1.766	2.662	10.7	20.7	1 12	9 36.88	+22 36.0	2.131	3.028	9.1	20.6
1 22	9 31.96	+23 17.5	1.726	2.677	6.7	20.5	1 22	9 29.46	+23 25.8	2.079	3.031	5.8	20.4
2 1	9 21.37	+24 3.3	1.715	2.692	3.3	20.3	2 1	9 20.55	+24 13.9	2.056	3.033	2.9	20.2
2 11	9 10.27	+24 39.5	1.732	2.706	4.3	20.4	2 11	9 11.09	+24 54.5	2.062	3.034	3.9	20.2
2 21	8 59.91	+25 1.8	1.779	2.719	8.0	20.7	2 21	9 2.09	+25 23.5	2.098	3.036	7.1	20.4
3 2	8 51.41	+25 8.7	1.852	2.731	11.7	20.9	3 2	8 54.49	+25 38.9	2.161	3.037	10.4	20.6
3 12	8 45.51	+25 0.9	1.948	2.743	14.8	21.2	3 12	8 48.98	+25 40.6	2.247	3.037	13.2	20.8
519233	2010 <i>VD</i> ₁₉₀		2 6.1 146°94	0°2/ 6.3 18			195215	2002 <i>DP</i> ₁₁		2 6.1 31°93	0°0/ 5.9 18		
1 2	9 42.56	+13 6.6	2.173	2.971	13.0	22.8	1 2	9 40.63	+13 23.7	1.226	2.063	18.7	19.7
1 12	9 37.04	+13 31.3	2.095	2.980	9.8	22.6	1 12	9 36.85	+13 51.0	1.166	2.072	14.2	19.4
1 22	9 29.48	+14 5.6	2.042	2.989	6.2	22.4	1 22	9 29.92	+14 34.3	1.126	2.082	8.9	19.2
2 1	9 20.53	+14 45.9	2.017	2.998	2.2	22.2	2 1	9 20.78	+15 27.9	1.110	2.092	3.0	18.8
2 11	9 11.07	+15 27.6	2.022	3.006	1.9	22.2	2 11	9 10.90	+16 23.1	1.120	2.104	2.9	18.9
2 21	9 2.09	+16 6.1	2.058	3.013	5.9	22.4	2 21	9 1.89	+17 11.9	1.155	2.116	8.6	19.2
3 2	8 54.46	+16 38.0	2.122	3.020	9.5	22.7	3 2	8 55.14	+17 48.6	1.213	2.128	13.6	19.5
3 12	8 48.87	+17 1.2	2.210	3.026	12.6	22.9	3 12	8 51.53	+18 10.3	1.292	2.141	17.8	19.8
79304	1995 <i>WM</i> ₃₅		2 6.1 102°02	4°5/ 3.5 18			295641	2008 <i>SE</i> ₂₆₁		2 6.1 35°55	3°6/ 8.3 18		
1 2	9 48.53	+23 53.0	1.504	2.333	16.2	19.0	1 2	9 40.37	+ 5 11.0	1.419	2.222	18.4	20.9
1 12	9 42.34	+24 55.7	1.450	2.352	12.2	18.8	1 12	9 36.39	+ 5 20.2	1.343	2.224	14.5	20.7
1 22	9 33.09	+26 1.2	1.420	2.371	7.9	18.6	1 22	9 29.58	+ 5 52.3	1.287	2.226	10.0	20.4
2 1	9 21.79	+26 59.8	1.415	2.389	4.7	18.4	2 1	9 20.68	+ 6 45.0	1.255	2.228	5.4	20.2
2 11	9 9.93	+27 43.1	1.439	2.407	5.9	18.6	2 11	9 10.95	+ 7 52.9	1.250	2.230	3.9	20.1
2 21	8 59.06	+28 5.9	1.490	2.424	9.8	18.8	2 21	9 1.79	+ 9 7.6	1.270	2.232	7.8	20.3
3 2	8 50.50	+28 7.7	1.565	2.441	13.6	19.1	3 2	8 54.51	+10 20.7	1.317	2.235	12.5	20.6
3 12	8 45.05	+27 51.0	1.662	2.457	16.9	19.4	3 12	8 50.06	+11 25.2	1.384	2.237	16.7	20.8
206230	2002 <i>VP</i> ₁₁₈		2 6.1 51°57	4°1/ 8.8 18			432148	2009 <i>BG</i> ₁₀₄		2 6.1 257°85	1°0/ 7.0 15		
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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
152145	2005 <i>JW</i> ₁₁₂		2 6.1 179°64	6°2/11.8 18			429977	2013 <i>LN</i> ₇		2 6.1 141°22	1°1/ 5.3 18		
1 2	9 40.17	- 6 41.1	2.542	3.244	13.8	19.9	1 2	9 43.35	+ 7 6.3	1.103	1.926	21.3	20.6
1 12	9 35.07	- 6 53.7	2.447	3.246	11.7	19.7	1 12	9 39.55	+ 9 38.4	1.032	1.932	16.2	20.3
1 22	9 28.23	- 6 47.1	2.374	3.248	9.3	19.6	1 22	9 32.08	+12 50.4	0.983	1.937	10.1	19.9
2 1	9 20.14	- 6 20.2	2.326	3.248	7.2	19.4	2 1	9 21.71	+16 28.8	0.960	1.942	3.3	19.6
2 11	9 11.54	- 5 34.4	2.306	3.248	6.2	19.4	2 11	9 10.01	+20 10.7	0.965	1.946	4.2	19.6
2 21	9 3.21	- 4 33.0	2.316	3.247	7.0	19.4	2 21	8 58.92	+23 32.5	0.998	1.950	10.9	20.0
3 2	8 55.93	- 3 21.2	2.354	3.245	9.0	19.5	3 2	8 50.33	+26 17.8	1.055	1.954	16.8	20.4
3 12	8 50.32	- 2 5.1	2.418	3.243	11.4	19.7	3 12	8 45.48	+28 20.9	1.133	1.957	21.5	20.7
376567	2013 <i>PG</i> ₁₃		2 6.1 133°54	0°0/ 6.2 18			119550	2001 <i>VG</i> ₃₄		2 6.1 247°15	7°6/30.7 18		
1 2	9 46.47	+16 0.5	2.329	3.124	12.3	20.8	1 2	9 43.54	+33 19.0	1.902	2.730	13.4	19.6
1 12	9 39.77	+15 49.6	2.251	3.135	9.3	20.7	1 12	9 38.64	+34 58.0	1.835	2.726	10.7	19.4
1 22	9 31.09	+15 43.6	2.198	3.145	5.8	20.5	1 22	9 30.94	+36 33.6	1.792	2.721	8.4	19.2
2 1	9 21.09	+15 40.0	2.175	3.155	2.0	20.2	2 1	9 21.18	+37 55.7	1.776	2.717	7.6	19.2
2 11	9 10.69	+15 36.1	2.182	3.165	1.9	20.2	2 11	9 10.57	+38 55.2	1.787	2.713	8.9	19.2
2 21	9 0.83	+15 29.6	2.221	3.175	5.6	20.5	2 21	9 0.51	+39 27.5	1.825	2.709	11.4	19.4
3 2	8 52.38	+15 19.1	2.289	3.184	9.1	20.7	3 2	8 52.28	+39 32.1	1.885	2.704	14.2	19.5
3 12	8 45.97	+15 4.0	2.382	3.192	12.0	20.9	3 12	8 46.82	+39 12.3	1.965	2.700	16.7	19.7
190285	1993 <i>FH</i> ₈		2 6.1 325°07	9°0/31.9 18			186847	2004 <i>GN</i> ₂₁		2 6.1 327°06	7°9/30.9 18		
1 2	9 45.36	+35 7.2	1.504	2.340	15.8	18.9	1 2	9 41.76	+31 0.6	1.594	2.434	14.9	20.0
1 12	9 40.81	+36 7.5	1.422	2.317	12.9	18.6	1 12	9 37.72	+32 49.6	1.527	2.428	11.7	19.8
1 22	9 32.70	+37 1.3	1.362	2.295	10.2	18.4	1 22	9 30.58	+34 38.1	1.484	2.422	9.0	19.6
2 1	9 21.86	+37 37.0	1.326	2.273	9.0	18.3	2 1	9 21.10	+36 13.9	1.467	2.417	7.9	19.5
2 11	9 9.86	+37 44.8	1.315	2.252	10.3	18.3	2 11	9 10.65	+37 26.1	1.476	2.412	9.5	19.6
2 21	8 58.55	+37 20.1	1.328	2.232	13.3	18.4	2 21	9 0.79	+38 8.0	1.510	2.407	12.5	19.7
3 2	8 49.66	+36 24.3	1.363	2.213	16.9	18.6	3 2	8 53.00	+38 18.8	1.566	2.403	15.7	19.9
3 12	8 44.31	+35 3.5	1.417	2.195	20.2	18.8	3 12	8 48.30	+38 1.9	1.641	2.399	18.6	20.1
171878	2001 <i>QY</i> ₂₆₁		2 6.1 121°78	1°7/ 7.6 18			209415	2004 <i>FZ</i> ₃₀		2 6.1 282°83	5°0/11.2 17		
1 2	9 39.80	+ 8 57.1	2.730	3.507	11.2	20.9	1 2	9 36.03	- 4 26.4	2.547	3.271	13.2	20.8
1 12	9 34.54	+ 8 57.6	2.652	3.522	8.6	20.7	1 12	9 32.15	- 4 2.3	2.426	3.247	11.1	20.6
1 22	9 27.75	+ 9 7.4	2.599	3.536	5.7	20.6	1 22	9 26.55	- 3 17.1	2.328	3.222	8.6	20.4
2 1	9 19.94	+ 9 24.7	2.575	3.549	2.8	20.4	2 1	9 19.63	- 2 10.7	2.256	3.197	6.2	20.2
2 11	9 11.78	+ 9 47.0	2.582	3.563	2.0	20.4	2 11	9 12.06	- 0 45.4	2.213	3.172	5.0	20.1
2 21	9 4.01	+10 11.4	2.619	3.576	4.7	20.6	2 21	9 4.60	+ 0 54.1	2.200	3.147	6.2	20.1
3 2	8 57.27	+10 35.0	2.686	3.588	7.6	20.8	3 2	8 58.03	+ 2 41.5	2.216	3.122	8.8	20.2
3 12	8 52.09	+10 55.5	2.779	3.600	10.1	21.0	3 12	8 53.02	+ 4 29.5	2.260	3.096	11.6	20.3
522263	2016 <i>AY</i> ₂₇₅		2 6.1 202°82	1°2/ 6.9 16			15254	1990 <i>QM</i> ₄		2 6.1 246°61	0°0/ 6.1 18		
1 2	9 42.49	+10 59.3	2.185	2.977	13.1	22.2	1 2	9 42.12	+12 21.7	1.674	2.486	15.6	18.0
1 12	9 37.10	+11 6.2	2.093	2.973	10.1	22.0	1 12	9 37.58	+13 1.5	1.581	2.474	12.0	17.7
1 22	9 29.63	+11 23.8	2.025	2.968	6.6	21.8	1 22	9 30.33	+13 57.0	1.511	2.462	7.6	17.4
2 1	9 20.66	+11 49.5	1.985	2.964	2.8	21.5	2 1	9 21.02	+15 3.5	1.468	2.449	2.7	17.1
2 11	9 11.06	+12 19.7	1.975	2.958	2.1	21.5	2 11	9 10.73	+16 13.9	1.453	2.436	2.5	17.0
2 21	9 1.83	+12 50.4	1.995	2.952	5.9	21.7	2 21	9 0.78	+17 20.6	1.466	2.422	7.6	17.3
3 2	8 53.88	+13 17.9	2.044	2.946	9.6	21.9	3 2	8 52.46	+18 17.2	1.505	2.409	12.3	17.5
3 12	8 47.95	+13 39.5	2.117	2.939	12.8	22.1	3 12	8 46.75	+18 59.9	1.567	2.394	16.3	17.8
367205	2007 <i>CY</i> ₄₆		2 6.1 31°93	0°9/ 5.6 18			33049	1997 <i>UF</i> ₅		2 6.1 243°61	2°9/ 4.5 18		
1 2	9 43.14	+17 24.0	1.631	2.455	15.4	20.4	1 2	9 46.27	+21 11.5	1.650	2.474	15.3	19.1
1 12	9 38.11	+17 31.8	1.560	2.460	11.6	20.1	1 12	9 40.78	+21 44.1	1.564	2.464	11.6	18.8
1 22	9 30.45	+17 46.9	1.512	2.465	7.2	19.9	1 22	9 32.34	+22 22.4	1.501	2.454	7.3	18.6
2 1	9 20.95	+18 4.9	1.489	2.471	2.5	19.6	2 1	9 21.70	+22 59.6	1.465	2.444	3.4	18.3
2 11	9 10.83	+18 20.5	1.495	2.477	2.8	19.6	2 11	9 10.12	+23 28.7	1.457	2.433	4.4	18.3
2 21	9 1.39	+18 29.6	1.528	2.483	7.5	19.9	2 21	8 59.07	+23 44.2	1.477	2.422	8.8	18.6
3 2	8 53.82	+18 29.6	1.587	2.490	11.8	20.2	3 2	8 49.93	+23 43.8	1.522	2.411	13.2	18.8
3 12	8 48.90	+18 19.9	1.668	2.497	15.4	20.4	3 12	8 43.68	+23 28.2	1.589	2.399	16.9	19.0
199612	2006 <i>FE</i> ₃₉		2 6.1 149°84	0°1/ 6.2 18			324601	2006 <i>XL</i> ₆₈		2 6.1 60°18	1°7/ 5.0 18		
1 2	9 39.58	+13 10.4	2.204	3.007	12.7	20.8	1 2	9 43.07	+16 39.0	1.525	2.351	16.2	20.7
1 12	9 34.86	+13 40.3	2.123	3.011	9.6	20.6	1 12	9 38.00	+17 33.9	1.477	2.378	12.0	20.6
1 22	9 28.19	+14 20.1	2.066	3.014	6.0	20.3	1 22	9 30.30	+18 38.6	1.451	2.406	7.3	20.3
2 1	9 20.14	+15 6.2	2.036	3.017	2.1	20.1	2 1	9 20.88	+19 45.5	1.452	2.433	2.7	20.1
2 11	9 11.57	+15 53.8	2.037	3.021	1.9	20.1	2 11	9 11.03	+20 46.6	1.481	2.461	3.5	20.2
2 21	9 3.40	+16 38.3	2.068	3.023	5.8	20.3	2 21	9 2.06	+21 35.5	1.537	2.488	7.9	20.6
3 2	8 56.50	+17 15.9	2.126	3.026	9.4	20.6	3 2	8 55.10	+22 8.8	1.619	2.515	12.0	20.9
3 12	8 51.52	+17 44.1	2.209	3.028	12.5	20.8	3 12	8 50.83	+22 25.9	1.722	2.543	15.4	21.2
64521	2001 <i>VG</i> ₉₈		2 6.1 56°30	3°3/ 8.4 18			84883	2003 <i>DC</i> ₂₂		2 6.1 220°33	1°5/ 7.7 18		
1 2	9 40.73	+ 3 29.6	1.256	2.062	20.2	17.7	1 2	9 35.92	+ 6 39.8	2.622	3.400	11.5	19.4
1 12	9 36.63	+ 4 15.0	1.205	2.087	15.8	17.5	1 12	9 31.90	+ 7 29.5	2.527	3.397	9.0	19.2
1 22	9 29.63	+ 5 28.3	1.172	2.112	10.7	17.2	1 22	9 26.27	+ 8 33.2	2.457	3.394	6.0	19.0
2 1	9 20.66	+ 7 4.5	1.164	2.137	5.5	17.0	2 1	9 19.50	+ 9 48.1	2.416	3.391	2.8	18.8
2 11	9 11.14	+ 8 53.5	1.182	2.163	3.7	17.0	2 11	9 12.24	+11 9.8	2.405	3.388	1.9	18.7
2 21	9 2.53	+10 43.6	1.226	2.189	7.8	17.3	2 21	9 5.22	+12 32.8	2.426	3.384	4.9	18.9
3 2	8 56.08	+12 24.3	1.296	2.215	12.5	17.6	3 2	8 59.15	+13 52.0	2.477	3.381	8.0	19.1
3 12	8 52.57	+13 48.6	1.387	2.241	16.6	17.9	3 12	8 54.60	+15 3.5	2.553	3.377	10.9	19.3
207048	2004 <i>XF</i> ₄₀		2 6.1 48°16	0°4/ 5.9 18			259995	2004 <i>FM</i> ₉₅		2 6.1 17°65	0°7/ 5.6 18		
1 2	9												

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
142713	2002 <i>TW</i> ₂₆₄		2 6.1 172°39	4.7/ 9.3	18		284386	2006 <i>SE</i> ₃₇₆		2 6.1 113°38	0.6/ 6.7	18	
1 2	9 41.14	+ 2 0.8	1.944	2.710	15.4	19.9	1 2	9 37.17	+11 1.8	2.547	3.341	11.4	21.4
1 12	9 36.27	+ 1 45.0	1.858	2.712	12.5	19.7	1 12	9 32.81	+11 36.2	2.467	3.349	8.7	21.2
1 22	9 29.20	+ 1 47.1	1.794	2.713	9.1	19.4	1 22	9 26.82	+12 20.7	2.412	3.357	5.5	21.0
2 1	9 20.55	+ 2 7.0	1.755	2.714	5.9	19.3	2 1	9 19.70	+13 12.2	2.385	3.365	2.1	20.8
2 11	9 11.26	+ 2 42.3	1.745	2.715	4.7	19.2	2 11	9 12.18	+14 6.6	2.389	3.373	1.6	20.7
2 21	9 2.37	+ 3 28.6	1.763	2.716	6.9	19.3	2 21	9 4.99	+14 59.5	2.423	3.380	5.0	21.0
3 2	8 54.87	+ 4 20.3	1.808	2.716	10.3	19.5	3 2	8 58.85	+15 47.3	2.487	3.388	8.2	21.2
3 12	8 49.53	+ 5 11.7	1.877	2.716	13.6	19.7	3 12	8 54.32	+16 27.1	2.575	3.395	10.9	21.4
170732	2004 <i>BC</i> ₉₀		2 6.1 356°89	2.5/ 7.6	18		252680	2002 <i>AX</i> ₁₃₇		2 6.1 355°33	3.2/ 7.9	18	
1 2	9 40.26	+ 9 13.7	1.960	2.756	14.3	19.5	1 2	9 38.88	+ 8 3.3	1.499	2.311	17.1	20.2
1 12	9 35.59	+ 8 50.3	1.875	2.754	11.1	19.3	1 12	9 35.18	+ 7 45.4	1.420	2.307	13.5	20.0
1 22	9 28.75	+ 8 38.2	1.813	2.753	7.5	19.0	1 22	9 28.81	+ 7 44.0	1.362	2.304	9.2	19.7
2 1	9 20.39	+ 8 36.4	1.778	2.752	3.8	18.8	2 1	9 20.50	+ 7 57.8	1.328	2.302	4.8	19.4
2 11	9 11.43	+ 8 42.4	1.771	2.751	2.9	18.7	2 11	9 11.40	+ 8 23.4	1.320	2.301	3.6	19.4
2 21	9 2.91	+ 8 53.1	1.793	2.751	6.3	18.9	2 21	9 2.83	+ 8 55.6	1.338	2.300	7.5	19.6
3 2	8 55.80	+ 9 5.1	1.842	2.752	10.0	19.2	3 2	8 56.01	+ 9 28.7	1.382	2.300	12.0	19.8
3 12	8 50.82	+ 9 15.3	1.914	2.752	13.3	19.4	3 12	8 51.85	+ 9 57.6	1.447	2.302	16.0	20.1
122390	2000 <i>QH</i> ₇₅		2 6.1 158°91	0.9/ 6.9	18		323452	2004 <i>HT</i> ₅₂		2 6.1 216°17	5.7/ 1.1	17	
1 2	9 40.18	+10 34.2	2.096	2.893	13.4	20.2	1 2	9 45.46	+31 43.7	2.367	3.181	11.5	21.5
1 12	9 35.42	+11 1.3	2.014	2.897	10.3	20.0	1 12	9 39.54	+32 53.1	2.286	3.173	9.1	21.3
1 22	9 28.60	+11 40.9	1.955	2.900	6.6	19.8	1 22	9 31.28	+33 59.9	2.231	3.164	6.8	21.2
2 1	9 20.33	+12 29.6	1.924	2.903	2.6	19.5	2 1	9 21.31	+34 56.9	2.204	3.154	5.7	21.1
2 11	9 11.50	+13 22.6	1.922	2.905	2.0	19.5	2 11	9 10.63	+35 37.5	2.206	3.143	6.7	21.1
2 21	9 3.07	+14 14.7	1.950	2.908	5.9	19.7	2 21	9 0.35	+35 57.9	2.237	3.132	9.1	21.2
3 2	8 55.96	+15 1.5	2.006	2.910	9.7	20.0	3 2	8 51.55	+35 57.4	2.294	3.120	11.7	21.4
3 12	8 50.87	+15 39.6	2.086	2.912	12.9	20.2	3 12	8 45.01	+35 38.2	2.372	3.108	14.1	21.5
500405	2012 <i>TW</i> ₁₀₈		2 6.1 248°57	2.2/ 4.4	17		234952	2002 <i>VQ</i> ₉₅		2 6.1 135°73	1.5/ 4.9	18	
1 2	9 42.01	+22 2.9	2.421	3.234	11.3	21.3	1 2	9 41.81	+19 48.8	2.550	3.357	11.0	20.6
1 12	9 36.66	+22 26.2	2.330	3.224	8.5	21.1	1 12	9 36.26	+20 10.1	2.474	3.366	8.2	20.5
1 22	9 29.33	+22 52.0	2.263	3.214	5.4	20.9	1 22	9 28.94	+20 34.7	2.424	3.374	5.1	20.3
2 1	9 20.59	+23 16.0	2.226	3.204	2.6	20.6	2 1	9 20.42	+20 59.0	2.403	3.383	2.0	20.1
2 11	9 11.28	+23 34.0	2.219	3.193	3.3	20.7	2 11	9 11.52	+21 19.1	2.412	3.391	2.6	20.1
2 21	9 2.33	+23 42.7	2.241	3.183	6.5	20.9	2 21	9 3.05	+21 32.3	2.453	3.398	5.7	20.4
3 2	8 54.63	+23 40.7	2.292	3.172	9.7	21.0	3 2	8 55.80	+21 36.8	2.521	3.406	8.8	20.6
3 12	8 48.85	+23 27.8	2.366	3.161	12.5	21.2	3 12	8 50.34	+21 32.3	2.615	3.413	11.4	20.8
208380	2001 <i>SM</i> ₈₉		2 6.1 135°28	1.1/ 5.3	18		227942	2007 <i>GE</i> ₃₈		2 6.1 25°92	0.2/ 6.3	18	
1 2	9 41.36	+18 32.0	2.537	3.343	11.1	20.8	1 2	9 39.39	+12 52.4	1.841	2.654	14.4	21.0
1 12	9 35.93	+18 48.4	2.459	3.350	8.3	20.7	1 12	9 35.11	+13 22.7	1.762	2.655	10.9	20.7
1 22	9 28.73	+19 8.9	2.407	3.358	5.1	20.5	1 22	9 28.55	+14 5.3	1.707	2.657	6.9	20.5
2 1	9 20.34	+19 30.1	2.384	3.364	1.9	20.2	2 1	9 20.36	+14 55.9	1.678	2.659	2.4	20.2
2 11	9 11.55	+19 48.4	2.391	3.371	2.3	20.3	2 11	9 11.55	+15 48.8	1.677	2.661	2.2	20.2
2 21	9 3.19	+20 0.9	2.429	3.378	5.6	20.5	2 21	9 3.19	+16 38.2	1.705	2.663	6.6	20.5
3 2	8 56.03	+20 6.0	2.495	3.384	8.7	20.7	3 2	8 56.34	+17 19.5	1.760	2.665	10.7	20.7
3 12	8 50.63	+20 2.8	2.586	3.390	11.3	20.9	3 12	8 51.74	+17 49.8	1.838	2.667	14.2	21.0
223509	2004 <i>CX</i> ₂₁		2 6.1 77°43	0.7/ 6.5	18		113079	2002 <i>RD</i> ₆₄		2 6.1 103°96	0.3/ 6.4	18	
1 2	9 47.99	+13 30.0	1.277	2.100	18.9	20.0	1 2	9 42.70	+11 48.1	1.928	2.729	14.3	20.5
1 12	9 42.17	+13 29.8	1.221	2.118	14.4	19.8	1 12	9 37.32	+12 28.7	1.863	2.750	10.8	20.3
1 22	9 33.14	+13 43.0	1.185	2.136	9.1	19.5	1 22	9 29.76	+13 21.5	1.823	2.770	6.8	20.1
2 1	9 21.92	+14 4.9	1.173	2.154	3.3	19.2	2 1	9 20.73	+14 21.9	1.810	2.790	2.4	19.9
2 11	9 10.11	+14 29.4	1.188	2.172	2.8	19.2	2 11	9 11.25	+15 23.8	1.827	2.810	2.1	19.9
2 21	8 59.36	+14 50.7	1.230	2.190	8.3	19.6	2 21	9 2.37	+16 21.3	1.873	2.829	6.3	20.2
3 2	8 51.06	+15 4.8	1.297	2.208	13.2	20.0	3 2	8 55.03	+17 10.0	1.947	2.848	10.1	20.5
3 12	8 46.03	+15 9.8	1.384	2.225	17.3	20.3	3 12	8 49.92	+17 47.2	2.045	2.866	13.3	20.7
18132	Spector		2 6.1 270°09	1.6/ 5.2	18		287510	2003 <i>BM</i> ₆₃		2 6.1 340°09	1.7/ 5.2	18	
1 2	9 43.14	+16 48.5	1.600	2.424	15.7	19.2	1 2	9 43.87	+21 15.8	2.079	2.895	12.8	19.6
1 12	9 38.61	+17 30.1	1.505	2.405	11.9	18.9	1 12	9 38.26	+21 10.3	1.994	2.889	9.7	19.3
1 22	9 31.15	+18 23.9	1.432	2.386	7.5	18.6	1 22	9 30.40	+21 6.6	1.932	2.884	6.1	19.1
2 1	9 21.37	+19 23.9	1.385	2.366	2.7	18.3	2 1	9 20.98	+21 1.0	1.899	2.880	2.4	18.9
2 11	9 10.47	+20 22.2	1.366	2.346	3.5	18.3	2 11	9 11.00	+20 49.9	1.896	2.875	3.0	18.9
2 21	8 59.86	+21 11.2	1.374	2.326	8.6	18.5	2 21	9 1.54	+20 31.1	1.922	2.871	6.7	19.1
3 2	8 51.01	+21 45.9	1.408	2.306	13.4	18.7	3 2	8 53.59	+20 4.0	1.975	2.867	10.4	19.3
3 12	8 44.99	+22 4.1	1.463	2.285	17.6	18.9	3 12	8 47.88	+19 29.0	2.052	2.864	13.6	19.5
481	Emita		2 6.1 59°36	5.5/ 2.3	18		189443	1998 <i>SP</i> ₁₂₂		2 6.1 118°18	3.4/ 4.3	18	
1 2	9 42.95	+27 2.3	1.695	2.529	14.4	12.8	1 2	9 49.06	+22 19.2	1.606	2.428	15.7	20.0
1 12	9 38.02	+28 18.7	1.643	2.545	11.0	12.6	1 12	9 42.62	+23 0.1	1.544	2.443	11.8	19.8
1 22	9 30.40	+29 35.0	1.614	2.561	7.5	12.4	1 22	9 33.29	+23 44.5	1.506	2.458	7.5	19.6
2 1	9 20.97	+30 42.1	1.611	2.577	5.5	12.3	2 1	9 21.98	+24 25.0	1.495	2.472	3.7	19.4
2 11	9 10.99	+31 31.7	1.637	2.593	6.8	12.4	2 11	9 10.10	+24 54.1	1.512	2.486	4.8	19.5
2 21	9 1.80	+31 59.5	1.689	2.609	9.9	12.7	2 21	8 59.11	+25 7.7	1.558	2.499	8.8	19.7
3 2	8 54.55	+32 4.7	1.765	2.626	13.1	12.9	3 2	8 50.28	+25 4.5	1.629	2.511	12.8	20.0
3 12	8 50.01	+31 49.9	1.862	2.642	16.0	13.1	3 12	8 44.41	+24 46.2	1.721	2.523	16.2	20.3
215531	2002 <i>VS</i> ₁₀₅		2 6.1 91°84	5.3/ 2.7	18		249107	2007 <i>VA</i> ₂₉₆		2 6.1 181°31	0.4/ 6.4	18	
1 2	9 46.06	+27 45.1	1.744	2.572	14.4	20.3	1 2	9 43.18	+12 29.1	2.087	2.884		

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
129721	1998 <i>VU</i> ₂		2 6.1 74°24	1.3°/ 5.1	18		402961	2007 <i>TY</i> ₄₃₅		2 6.1 112°95	1.0°/ 5.4	18	
1 2	9 40.45	+17 42.9	2.049	2.865	13.0	20.4	1 2	9 42.43	+14 53.0	1.731	2.547	15.0	21.5
1 12	9 35.65	+18 16.3	1.977	2.874	9.7	20.2	1 12	9 37.50	+15 48.9	1.663	2.559	11.3	21.2
1 22	9 28.74	+18 56.4	1.930	2.883	6.0	20.0	1 22	9 30.08	+16 56.7	1.618	2.570	6.9	21.0
2 1	9 20.40	+19 38.5	1.911	2.892	2.2	19.8	2 1	9 20.92	+18 10.0	1.600	2.581	2.4	20.7
2 11	9 11.57	+20 17.3	1.921	2.901	2.8	19.8	2 11	9 11.15	+19 21.2	1.611	2.592	2.9	20.8
2 21	9 3.25	+20 48.4	1.960	2.910	6.6	20.1	2 21	9 1.97	+20 23.2	1.651	2.603	7.4	21.1
3 2	8 56.36	+21 9.0	2.026	2.919	10.1	20.3	3 2	8 54.49	+21 11.6	1.717	2.613	11.5	21.4
3 12	8 51.58	+21 18.1	2.115	2.928	13.2	20.5	3 12	8 49.50	+21 44.4	1.806	2.623	14.9	21.6
337442	2001 <i>RT</i> ₄₉		2 6.1 139°84	4.4°/10.3	17		52257	1981 <i>EJ</i> ₄₂		2 6.1 331°75	4.2°/ 9.6	18	
1 2	9 38.34	- 1 5.2	2.742	3.475	12.2	21.6	1 2	9 35.45	+ 1 18.5	2.113	2.881	14.3	19.5
1 12	9 33.54	- 1 19.5	2.656	3.484	10.0	21.5	1 12	9 31.94	+ 1 25.5	2.019	2.874	11.6	19.3
1 22	9 27.22	- 1 19.3	2.593	3.493	7.6	21.3	1 22	9 26.51	+ 1 51.1	1.947	2.867	8.5	19.1
2 1	9 19.85	- 1 4.5	2.557	3.501	5.4	21.2	2 1	9 19.69	+ 2 34.8	1.901	2.860	5.4	18.9
2 11	9 12.10	- 0 36.6	2.550	3.509	4.5	21.2	2 11	9 12.27	+ 3 33.5	1.882	2.854	4.2	18.8
2 21	9 4.64	+ 0 1.2	2.573	3.517	5.6	21.2	2 21	9 5.14	+ 4 42.0	1.892	2.848	6.2	18.9
3 2	8 58.15	+ 0 45.4	2.625	3.524	7.9	21.4	3 2	8 59.16	+ 5 54.5	1.930	2.843	9.4	19.1
3 12	8 53.16	+ 1 31.7	2.703	3.531	10.2	21.6	3 12	8 55.03	+ 7 4.9	1.992	2.837	12.6	19.3
416912	2005 <i>RA</i> ₄₈		2 6.1 166°44	2.0°/ 4.5	17		413515	2005 <i>SH</i> ₆		2 6.1 64°80	3.6°/ 4.1	18	
1 2	9 42.42	+19 25.3	2.208	3.020	12.3	22.1	1 2	9 46.13	+23 54.9	1.682	2.509	14.9	20.6
1 12	9 37.08	+20 11.6	2.130	3.024	9.2	21.9	1 12	9 40.21	+24 29.7	1.629	2.530	11.2	20.4
1 22	9 29.64	+21 3.7	2.076	3.028	5.7	21.6	1 22	9 31.67	+25 5.8	1.600	2.551	7.1	20.2
2 1	9 20.73	+21 56.3	2.052	3.031	2.5	21.4	2 1	9 21.42	+25 36.2	1.597	2.573	3.9	20.0
2 11	9 11.26	+22 43.5	2.058	3.034	3.3	21.5	2 11	9 10.77	+25 54.9	1.623	2.594	4.9	20.1
2 21	9 2.23	+23 21.0	2.093	3.036	6.8	21.7	2 21	9 1.03	+25 58.4	1.676	2.615	8.5	20.4
3 2	8 54.57	+23 46.0	2.156	3.038	10.1	21.9	3 2	8 53.30	+25 46.5	1.755	2.637	12.1	20.7
3 12	8 48.98	+23 58.0	2.243	3.039	13.1	22.1	3 12	8 48.29	+25 20.9	1.856	2.658	15.2	20.9
241671	2000 <i>QZ</i> ₂₁		2 6.1 166°04	0°3'/ 6.4	18		371006	2005 <i>TV</i> ₁₅₄		2 6.1 298°54	2°0'/ 5.0	18	
1 2	9 41.10	+12 33.3	2.407	3.200	12.0	21.8	1 2	9 43.53	+19 50.1	1.683	2.509	14.9	20.4
1 12	9 35.87	+13 3.0	2.323	3.205	9.1	21.6	1 12	9 38.77	+20 6.8	1.587	2.488	11.4	20.1
1 22	9 28.79	+13 42.1	2.264	3.210	5.7	21.4	1 22	9 31.18	+20 29.6	1.513	2.467	7.2	19.8
2 1	9 20.42	+14 27.5	2.233	3.214	2.1	21.1	2 1	9 21.41	+20 53.1	1.466	2.446	2.9	19.5
2 11	9 11.57	+15 14.6	2.234	3.217	1.8	21.1	2 11	9 10.63	+21 11.4	1.446	2.425	3.6	19.5
2 21	9 3.07	+15 59.2	2.265	3.220	5.4	21.4	2 21	9 0.21	+21 19.6	1.454	2.405	8.3	19.7
3 2	8 55.76	+16 37.7	2.325	3.222	8.8	21.6	3 2	8 51.52	+21 15.0	1.487	2.385	12.8	19.9
3 12	8 50.25	+17 7.8	2.410	3.224	11.7	21.8	3 12	8 45.57	+20 57.5	1.543	2.364	16.8	20.1
106128	2000 <i>TR</i> ₃₇		2 6.1 122°30	1°1'/ 5.4	18		368448	2003 <i>FM</i> ₃₅		2 6.2 13°39	4°4'/ 3.9	18	
1 2	9 43.55	+14 59.3	1.720	2.535	15.2	20.0	1 2	9 43.79	+24 53.8	1.454	2.294	16.1	20.3
1 12	9 38.34	+15 54.8	1.652	2.548	11.4	19.8	1 12	9 39.06	+25 24.8	1.389	2.296	12.2	20.1
1 22	9 30.60	+17 2.1	1.608	2.560	7.0	19.6	1 22	9 31.28	+25 56.9	1.347	2.300	8.0	19.8
2 1	9 21.09	+18 14.7	1.590	2.572	2.4	19.3	2 1	9 21.38	+26 22.6	1.329	2.304	4.6	19.6
2 11	9 10.96	+19 24.9	1.602	2.583	2.9	19.4	2 11	9 10.78	+26 34.6	1.338	2.309	5.7	19.7
2 21	9 1.45	+20 25.7	1.643	2.594	7.5	19.7	2 21	9 1.04	+26 28.9	1.373	2.315	9.7	19.9
3 2	8 53.68	+21 12.6	1.710	2.605	11.6	20.0	3 2	8 53.51	+26 5.3	1.432	2.321	13.8	20.2
3 12	8 48.46	+21 43.9	1.800	2.615	15.0	20.2	3 12	8 49.02	+25 26.1	1.511	2.328	17.4	20.4
258480	2002 <i>AY</i> ₂₂		2 6.1 289°51	1°4'/ 4.9	18		122668	2000 <i>RB</i> ₁₀₁		2 6.2 54°08	3°7'/ 8.1	18	
1 2	9 38.34	+15 2.7	1.844	2.664	14.1	19.7	1 2	9 44.21	+ 7 15.4	1.710	2.500	16.3	18.9
1 12	9 34.55	+16 13.8	1.752	2.651	10.6	19.4	1 12	9 38.69	+ 6 35.3	1.641	2.514	12.8	18.7
1 22	9 28.37	+17 39.0	1.685	2.639	6.6	19.1	1 22	9 30.74	+ 6 9.1	1.595	2.529	8.8	18.5
2 1	9 20.38	+19 12.2	1.645	2.627	2.4	18.8	2 1	9 21.14	+ 5 56.5	1.574	2.543	5.0	18.3
2 11	9 11.55	+20 44.9	1.634	2.614	3.2	18.9	2 11	9 11.03	+ 5 55.5	1.581	2.558	4.0	18.3
2 21	9 3.00	+22 9.1	1.653	2.602	7.6	19.1	2 21	9 1.59	+ 6 2.9	1.617	2.573	7.0	18.5
3 2	8 55.87	+23 18.5	1.697	2.590	11.8	19.3	3 2	8 53.89	+ 6 14.6	1.679	2.589	10.8	18.8
3 12	8 51.06	+24 10.1	1.764	2.578	15.4	19.5	3 12	8 48.65	+ 6 26.8	1.764	2.604	14.2	19.0
360429	2002 <i>HC</i> ₁₄		2 6.1 283°38	6°4'/ 1.7	17		327276	2005 <i>SM</i> ₂₃₇		2 6.2 198°09	1°4'/ 5.2	18	
1 2	9 44.31	+27 36.1	1.619	2.454	15.0	21.1	1 2	9 42.62	+18 4.4	2.007	2.821	13.3	21.2
1 12	9 39.79	+28 59.1	1.528	2.430	11.7	20.9	1 12	9 37.45	+18 32.9	1.924	2.820	10.0	21.0
1 22	9 32.06	+30 26.4	1.460	2.406	8.3	20.6	1 22	9 29.99	+19 8.1	1.866	2.818	6.2	20.8
2 1	9 21.77	+31 47.3	1.418	2.381	6.4	20.4	2 1	9 20.91	+19 45.3	1.835	2.816	2.3	20.5
2 11	9 10.18	+32 50.9	1.403	2.356	8.0	20.5	2 11	9 11.20	+20 19.1	1.834	2.814	2.9	20.6
2 21	8 58.91	+33 29.4	1.414	2.332	11.6	20.6	2 21	9 1.95	+20 45.1	1.862	2.812	6.9	20.8
3 2	8 49.56	+33 40.0	1.448	2.306	15.6	20.8	3 2	8 54.18	+21 0.5	1.917	2.809	10.7	21.0
3 12	8 43.34	+33 24.8	1.502	2.281	19.2	20.9	3 12	8 48.66	+21 4.3	1.996	2.807	13.9	21.2
277825	2006 <i>HY</i> ₃		2 6.1 179°80	5°9'/ 1.1	18		54097	2000 <i>HZ</i> ₁		2 6.2 301°01	4°0'/ 3.4	18	
1 2	9 42.73	+31 34.8	2.192	3.015	12.0	21.1	1 2	9 40.67	+22 5.5	1.624	2.460	14.9	18.9
1 12	9 37.56	+32 46.3	2.124	3.015	9.4	21.0	1 12	9 36.77	+23 11.3	1.536	2.442	11.3	18.7
1 22	9 30.05	+33 55.0	2.080	3.015	7.0	20.8	1 22	9 30.01	+24 25.4	1.470	2.424	7.3	18.4
2 1	9 20.90	+34 53.0	2.064	3.015	5.9	20.7	2 1	9 21.03	+25 39.4	1.430	2.406	4.2	18.2
2 11	9 11.13	+35 33.8	2.077	3.015	7.0	20.8	2 11	9 11.01	+26 44.0	1.418	2.389	5.6	18.2
2 21	9 1.87	+35 53.9	2.117	3.015	9.4	20.9	2 21	9 1.35	+27 31.7	1.433	2.371	9.7	18.4
3 2	8 54.17	+35 52.8	2.182	3.015	12.0	21.1	3 2	8 53.45	+27 58.4	1.472	2.354	13.9	18.6
3 12	8 48.79	+35 32.6	2.268	3.014	14.4	21.3	3 12	8 48.35	+28 3.9	1.532	2.337	17.7	18.8
423066	2003 <i>WG</i> ₁₀₂		2 6.1 199°01	16°9'/24.7	16		236093	2005 <i>MQ</i> ₁₀		2 6.2 182°56	0°1'/ 6.0	17	
1 2	9 56.11	+46 1.4	1.170	1.995	20.2	20.5	1 2	9 38.0					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
404885	2014 <i>KC</i> ₆₈		2 6.2 247°83	3°2/ 8.1 18			459983	2014 <i>OP</i> ₃₅		2 6.2 125°12	1°7/ 4.9 18		
1 2	9 42.54	+ 5 44.8	1.670	2.460	16.6	22.1	1 2	9 42.88	+16 43.1	1.708	2.528	15.0	21.6
1 12	9 37.94	+ 5 53.1	1.571	2.445	13.2	21.8	1 12	9 37.94	+17 41.1	1.638	2.536	11.2	21.4
1 22	9 30.65	+ 6 20.9	1.494	2.430	9.2	21.5	1 22	9 30.44	+18 49.7	1.591	2.544	6.9	21.2
2 1	9 21.25	+ 7 7.0	1.442	2.414	4.9	21.2	2 1	9 21.12	+20 2.0	1.571	2.552	2.6	20.9
2 11	9 10.81	+ 8 7.1	1.418	2.398	3.5	21.1	2 11	9 11.12	+21 10.0	1.580	2.560	3.4	21.0
2 21	9 0.64	+ 9 14.5	1.422	2.382	7.4	21.3	2 21	9 1.71	+22 6.9	1.618	2.567	7.8	21.2
3 2	8 52.03	+10 22.0	1.452	2.364	12.0	21.5	3 2	8 54.04	+22 48.6	1.682	2.574	11.9	21.5
3 12	8 46.01	+11 23.0	1.506	2.347	16.2	21.7	3 12	8 48.94	+23 13.7	1.768	2.580	15.4	21.7
427678	2004 <i>CT</i> ₆₃		2 6.2 312°75	6°8/ 1.5 17			426188	2012 <i>JJ</i> ₄₂		2 6.2 192°59	1°0/ 7.0 17		
1 2	9 45.23	+33 57.1	1.981	2.803	13.1	20.5	1 2	9 40.19	+10 29.2	2.461	3.248	12.0	22.5
1 12	9 39.84	+34 44.1	1.896	2.785	10.5	20.3	1 12	9 35.22	+10 51.6	2.369	3.247	9.2	22.3
1 22	9 31.70	+35 25.7	1.836	2.767	8.0	20.1	1 22	9 28.44	+11 24.6	2.302	3.244	5.9	22.1
2 1	9 21.55	+35 53.7	1.801	2.750	6.8	20.0	2 1	9 20.38	+12 5.5	2.263	3.242	2.5	21.9
2 11	9 10.60	+36 1.3	1.794	2.733	7.9	20.0	2 11	9 11.79	+12 50.5	2.255	3.238	1.8	21.8
2 21	9 0.21	+35 45.4	1.814	2.716	10.5	20.1	2 21	9 3.50	+13 35.5	2.278	3.235	5.3	22.1
3 2	8 51.63	+35 6.5	1.858	2.699	13.4	20.3	3 2	8 56.32	+14 16.6	2.329	3.230	8.6	22.3
3 12	8 45.76	+34 8.2	1.923	2.683	16.2	20.4	3 12	8 50.86	+14 51.1	2.406	3.226	11.6	22.5
419848	2011 <i>AO</i> ₇		2 6.2 58°81	3°9/ 3.2 18			146504	2001 <i>SH</i> ₄₅		2 6.2 30°96	0°4/ 5.9 18		
1 2	9 42.27	+20 34.4	1.570	2.403	15.5	20.5	1 2	9 38.70	+13 12.3	1.444	2.273	16.8	19.0
1 12	9 37.52	+22 15.9	1.526	2.431	11.4	20.4	1 12	9 35.08	+13 58.8	1.381	2.283	12.7	18.7
1 22	9 30.11	+24 3.8	1.505	2.459	7.2	20.2	1 22	9 28.76	+15 0.7	1.339	2.293	7.9	18.5
2 1	9 20.94	+25 47.7	1.512	2.488	4.1	20.0	2 1	9 20.54	+16 11.5	1.323	2.305	2.7	18.2
2 11	9 11.27	+27 17.4	1.547	2.516	5.5	20.2	2 11	9 11.67	+17 23.0	1.333	2.316	2.7	18.2
2 21	9 2.43	+28 26.0	1.610	2.544	9.2	20.5	2 21	9 3.48	+18 27.1	1.370	2.329	7.8	18.6
3 2	8 55.55	+29 10.8	1.698	2.572	12.8	20.8	3 2	8 57.18	+19 18.0	1.433	2.342	12.4	18.9
3 12	8 51.37	+29 33.1	1.807	2.600	15.8	21.0	3 12	8 53.57	+19 52.8	1.516	2.355	16.2	19.1
500699	2012 <i>VN</i> ₁₁₀		2 6.2 191°47	2°7/ 8.6 17			69616	1998 <i>FY</i> ₄₉		2 6.2 0°74	3°9/ 4.2 18		
1 2	9 37.76	+ 4 56.0	2.771	3.535	11.3	22.6	1 2	9 44.98	+23 5.6	1.393	2.231	16.7	18.9
1 12	9 33.17	+ 4 53.6	2.677	3.534	9.0	22.4	1 12	9 40.16	+23 38.1	1.323	2.230	12.7	18.6
1 22	9 27.05	+ 5 2.7	2.607	3.533	6.3	22.2	1 22	9 32.12	+24 14.6	1.275	2.230	8.1	18.3
2 1	9 19.86	+ 5 22.5	2.566	3.531	3.7	22.0	2 1	9 21.75	+24 47.0	1.252	2.230	4.3	18.1
2 11	9 12.24	+ 5 50.6	2.554	3.530	2.8	22.0	2 11	9 10.54	+25 7.3	1.256	2.230	5.4	18.2
2 21	9 4.88	+ 6 24.2	2.573	3.528	4.9	22.1	2 21	9 0.14	+25 10.5	1.285	2.231	9.8	18.4
3 2	8 58.45	+ 6 59.8	2.621	3.526	7.6	22.3	3 2	8 52.02	+24 55.6	1.339	2.232	14.3	18.7
3 12	8 53.49	+ 7 34.3	2.695	3.523	10.2	22.4	3 12	8 47.11	+24 24.4	1.412	2.234	18.1	18.9
114105	2002 <i>VQ</i> ₄₂		2 6.2 196°39	0°5/ 6.6 18			40434	1999 <i>RH</i> ₃₂		2 6.2 97°39	2°5/ 8.3 18		
1 2	9 38.94	+12 18.7	2.734	3.525	10.8	20.8	1 2	9 39.40	+ 5 24.4	2.114	2.892	13.9	19.0
1 12	9 34.11	+12 41.6	2.641	3.522	8.2	20.6	1 12	9 34.74	+ 5 50.6	2.041	2.909	10.9	18.9
1 22	9 27.66	+13 12.9	2.574	3.519	5.2	20.4	1 22	9 28.16	+ 6 32.8	1.991	2.925	7.4	18.7
2 1	9 20.08	+13 50.0	2.536	3.516	2.0	20.2	2 1	9 20.27	+ 7 28.2	1.969	2.941	3.9	18.5
2 11	9 12.04	+14 29.4	2.529	3.512	1.6	20.1	2 11	9 11.94	+ 8 32.3	1.976	2.956	2.7	18.4
2 21	9 4.26	+15 7.5	2.552	3.508	4.9	20.4	2 21	9 4.06	+ 9 39.5	2.013	2.972	5.7	18.6
3 2	8 57.47	+15 41.2	2.605	3.503	8.0	20.6	3 2	8 57.48	+10 44.3	2.078	2.987	9.1	18.9
3 12	8 52.22	+16 8.3	2.683	3.498	10.7	20.7	3 12	8 52.83	+11 42.2	2.168	3.001	12.2	19.1
322062	2010 <i>VX</i> ₈₇		2 6.2 151°57	0°6/ 6.6 18			131911	2002 <i>BC</i> ₁₆		2 6.2 301°46	1°7/ 7.1 18		
1 2	9 42.81	+12 28.7	2.066	2.865	13.5	21.8	1 2	9 40.37	+10 15.6	1.435	2.254	17.4	20.4
1 12	9 37.42	+12 45.9	1.987	2.871	10.3	21.6	1 12	9 36.74	+10 23.9	1.340	2.234	13.6	20.1
1 22	9 29.89	+13 13.5	1.931	2.878	6.6	21.4	1 22	9 30.12	+10 49.8	1.267	2.215	9.0	19.7
2 1	9 20.88	+13 48.2	1.903	2.883	2.4	21.2	2 1	9 21.15	+11 30.7	1.217	2.196	3.9	19.4
2 11	9 11.31	+14 25.3	1.905	2.889	2.0	21.1	2 11	9 11.00	+12 21.1	1.194	2.177	2.8	19.3
2 21	9 2.22	+15 0.4	1.937	2.894	6.1	21.4	2 21	9 1.15	+13 13.9	1.197	2.159	8.1	19.5
3 2	8 54.54	+15 29.8	1.997	2.898	9.8	21.7	3 2	8 53.09	+14 2.0	1.224	2.141	13.4	19.8
3 12	8 48.98	+15 51.3	2.081	2.902	13.1	21.9	3 12	8 47.96	+14 40.2	1.273	2.123	18.0	20.0
460666	2014 <i>US</i> ₁₅₆		2 6.2 189°74	0°2/ 6.3 17			424127	2007 <i>EL</i> ₁₇₈		2 6.2 58°82	7°4/ 12.1 18		
1 2	9 42.88	+13 29.4	2.276	3.072	12.5	22.0	1 2	9 37.96	- 6 17.4	1.931	2.662	16.7	20.6
1 12	9 37.37	+13 49.0	2.186	3.071	9.5	21.8	1 12	9 33.95	- 6 38.0	1.849	2.666	14.1	20.5
1 22	9 29.84	+14 17.6	2.122	3.069	6.0	21.5	1 22	9 27.83	- 6 34.4	1.785	2.670	11.3	20.3
2 1	9 20.86	+14 51.9	2.086	3.067	2.1	21.3	2 1	9 20.21	- 6 5.1	1.746	2.675	8.7	20.1
2 11	9 11.31	+15 27.6	2.081	3.064	1.9	21.3	2 11	9 11.97	- 5 11.6	1.732	2.679	7.4	20.1
2 21	9 2.13	+16 0.7	2.106	3.060	5.8	21.5	2 21	9 4.13	- 3 58.9	1.746	2.684	8.3	20.1
3 2	8 54.21	+16 27.9	2.159	3.056	9.4	21.7	3 2	8 57.63	- 2 34.0	1.785	2.689	10.7	20.3
3 12	8 48.25	+16 47.1	2.237	3.051	12.5	21.9	3 12	8 53.20	- 1 5.0	1.849	2.693	13.5	20.5
354045	2001 <i>SH</i> ₁₄₅		2 6.2 120°89	3°2/ 8.4 18			38332	1999 <i>RF</i> ₁₃₁		2 6.2 156°72	3°4/ 9.2 18		
1 2	9 44.25	+ 4 56.6	1.746	2.527	16.4	22.1	1 2	9 39.61	+ 2 43.5	2.430	3.188	12.9	19.6
1 12	9 38.72	+ 5 9.9	1.676	2.544	12.9	21.9	1 12	9 34.73	+ 2 47.7	2.343	3.194	10.3	19.4
1 22	9 30.79	+ 5 42.1	1.628	2.561	8.8	21.7	1 22	9 28.11	+ 3 6.8	2.280	3.200	7.4	19.3
2 1	9 21.20	+ 6 30.6	1.606	2.577	4.8	21.5	2 1	9 20.26	+ 3 39.8	2.244	3.205	4.6	19.1
2 11	9 11.04	+ 7 30.5	1.613	2.592	3.4	21.4	2 11	9 11.94	+ 4 24.0	2.237	3.210	3.5	19.0
2 21	9 1.50	+ 8 35.1	1.649	2.607	6.8	21.7	2 21	9 3.96	+ 5 15.2	2.261	3.215	5.5	19.2
3 2	8 53.64	+ 9 38.1	1.712	2.621	10.7	21.9	3 2	8 57.08	+ 6 9.0	2.313	3.219	8.5	19.3
3 12	8 48.22	+10 34.2	1.799	2.634	14.2	22.2	3 12	8 51.91	+ 7 0.8	2.391	3.222	11.3	19.5
492490	2014 <i>NC</i> ₅₆		2 6.2 174°05	3°5/ 3.6 18			88314	2001 <i>OL</i> ₃₀		2 6.2 130°79	4°8/ 3.1 18		
1 2	9 44.7												

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2 6.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
518860	2010 <i>DE</i> ₆₄		2 6.2 195°08	4.8/ 1.9	17		245752	2006 <i>DY</i> ₁₈₄		2 6.2 146°11	3.5/ 3.9	18	
1 2	9 43.50	+32 11.2	2.749	3.559	10.2	21.4	1 2	9 49.80	+25 2.2	2.129	2.937	12.9	21.8
1 12	9 37.66	+32 52.0	2.673	3.558	8.0	21.3	1 12	9 42.64	+25 38.8	2.060	2.951	9.7	21.7
1 22	9 29.92	+33 28.7	2.623	3.556	5.9	21.1	1 22	9 33.13	+26 15.4	2.017	2.963	6.3	21.5
2 1	9 20.88	+33 56.2	2.602	3.554	4.8	21.0	2 1	9 22.03	+26 46.0	2.002	2.975	3.7	21.3
2 11	9 11.40	+34 10.2	2.611	3.552	5.6	21.1	2 11	9 10.44	+27 5.1	2.019	2.986	4.6	21.4
2 21	9 2.37	+34 8.4	2.649	3.550	7.6	21.2	2 21	8 59.55	+27 9.9	2.065	2.995	7.7	21.6
3 2	8 54.62	+33 50.8	2.713	3.547	9.9	21.4	3 2	8 50.37	+26 59.7	2.138	3.004	10.9	21.8
3 12	8 48.76	+33 19.2	2.801	3.544	12.0	21.5	3 12	8 43.61	+26 36.4	2.236	3.013	13.7	22.0
33175	1998 <i>FP</i> ₅		2 6.2 321°12	2°3/ 4.3	17		422742	2001 <i>SO</i> ₁₀₃		2 6.2 153°82	2°7/ 3.7	17	
1 2	9 37.99	+19 56.5	2.140	2.963	12.3	19.2	1 2	9 42.12	+24 37.0	2.886	3.694	9.8	22.0
1 12	9 33.95	+20 45.6	2.054	2.955	9.2	19.0	1 12	9 36.41	+25 8.9	2.810	3.701	7.4	21.8
1 22	9 27.84	+21 41.0	1.993	2.947	5.8	18.8	1 22	9 29.05	+25 41.2	2.761	3.708	4.8	21.7
2 1	9 20.22	+22 37.3	1.960	2.939	2.6	18.6	2 1	9 20.59	+26 9.7	2.742	3.715	2.8	21.5
2 11	9 11.98	+23 28.6	1.956	2.932	3.6	18.6	2 11	9 11.77	+26 30.8	2.754	3.722	3.5	21.6
2 21	9 4.08	+24 9.9	1.981	2.925	7.0	18.8	2 21	9 3.34	+26 41.9	2.797	3.727	5.9	21.8
3 2	8 57.48	+24 38.1	2.033	2.918	10.5	19.0	3 2	8 56.02	+26 42.1	2.868	3.733	8.5	21.9
3 12	8 52.89	+24 52.1	2.107	2.911	13.5	19.2	3 12	8 50.36	+26 31.6	2.964	3.738	10.7	22.1
128820	2004 <i>RO</i> ₃₀₃		2 6.2 283°09	3°9/ 8.8	17		346152	2007 <i>VD</i> ₂₅₄		2 6.2 191°94	5°7/30.3	17	
1 2	9 39.59	+ 4 9.8	1.923	2.702	15.1	20.9	1 2	9 42.31	+34 49.4	2.980	3.788	9.6	21.5
1 12	9 35.38	+ 3 59.6	1.820	2.684	12.2	20.7	1 12	9 36.88	+36 18.3	2.909	3.786	7.7	21.4
1 22	9 28.88	+ 4 6.1	1.738	2.667	8.7	20.4	1 22	9 29.54	+37 43.5	2.865	3.784	6.1	21.3
2 1	9 20.63	+ 4 29.3	1.683	2.649	5.3	20.2	2 1	9 20.82	+38 58.4	2.850	3.780	5.7	21.2
2 11	9 11.55	+ 5 6.6	1.655	2.630	4.1	20.1	2 11	9 11.50	+39 57.6	2.866	3.777	6.6	21.3
2 21	9 2.68	+ 5 53.7	1.655	2.612	6.9	20.2	2 21	9 2.45	+40 37.8	2.910	3.773	8.4	21.4
3 2	8 55.11	+ 6 45.0	1.683	2.594	10.7	20.4	3 2	8 54.52	+40 58.3	2.979	3.768	10.3	21.5
3 12	8 49.70	+ 7 34.9	1.734	2.576	14.3	20.6	3 12	8 48.40	+41 0.6	3.070	3.763	12.0	21.6
318111	2004 <i>JK</i> ₁₂		2 6.2 318°87	4°7/ 2.3	18		156725	2002 <i>TH</i> ₂₉₄		2 6.2 10°01	7°4/ 9.2	18	
1 2	9 38.17	+21 2.0	1.535	2.376	15.3	19.7	1 2	9 40.82	+ 3 37.3	1.052	1.872	22.3	19.0
1 12	9 35.03	+22 54.2	1.454	2.364	11.5	19.4	1 12	9 37.52	+ 2 25.0	0.988	1.873	18.2	18.8
1 22	9 29.02	+24 59.2	1.396	2.351	7.5	19.1	1 22	9 30.74	+ 1 36.3	0.941	1.875	13.5	18.5
2 1	9 20.75	+27 6.1	1.366	2.339	4.8	18.9	2 1	9 21.38	+ 1 14.5	0.915	1.879	9.0	18.3
2 11	9 11.41	+29 2.3	1.363	2.328	6.6	19.0	2 11	9 11.01	+ 1 19.2	0.912	1.884	7.5	18.2
2 21	9 2.43	+30 37.1	1.387	2.317	10.7	19.2	2 21	9 1.46	+ 1 45.2	0.931	1.890	10.4	18.4
3 2	8 55.23	+31 44.3	1.434	2.307	14.9	19.4	3 2	8 54.36	+ 2 24.3	0.972	1.897	15.0	18.7
3 12	8 50.90	+32 23.4	1.502	2.297	18.5	19.6	3 12	8 50.76	+ 3 7.1	1.032	1.906	19.4	18.9
469420	2001 <i>XP</i> ₂₅₄		2 6.2 6°57	0°0/ 6.3	15		244248	2002 <i>CB</i> ₁₄₃		2 6.2 79°52	0°2/ 6.0	18	
1 2	9 19.22	+15 4.1	32.334	33.127	1.0	22.7	1 2	9 44.76	+13 15.8	1.462	2.280	17.2	20.5
1 12	9 18.40	+15 7.6	32.244	33.128	0.8	22.7	1 12	9 39.48	+13 57.5	1.407	2.303	12.9	20.3
1 22	9 17.49	+15 11.6	32.182	33.129	0.5	22.6	1 22	9 31.41	+14 53.3	1.374	2.326	8.0	20.1
2 1	9 16.51	+15 15.9	32.150	33.130	0.2	22.6	2 1	9 21.47	+15 56.5	1.366	2.348	2.7	19.8
2 11	9 15.51	+15 20.3	32.148	33.131	0.1	22.6	2 11	9 11.00	+16 59.2	1.387	2.370	2.7	19.9
2 21	9 14.53	+15 24.6	32.177	33.132	0.4	22.6	2 21	9 1.41	+17 54.1	1.435	2.392	7.7	20.2
3 2	9 13.61	+15 28.7	32.236	33.133	0.7	22.7	3 2	8 53.88	+18 36.5	1.509	2.414	12.2	20.5
3 12	9 12.78	+15 32.3	32.322	33.134	1.0	22.7	3 12	8 49.19	+19 4.2	1.605	2.435	15.9	20.8
462871	2010 <i>VB</i> ₉₃		2 6.2 331°12	9°6/31.5	18		467956	2012 <i>HM</i> ₆		2 6.2 243°81	7°3/11.6	18	
1 2	9 50.27	+38 3.1	1.604	2.427	15.7	21.5	1 2	9 39.25	- 5 48.5	2.078	2.802	15.8	21.8
1 12	9 44.25	+39 12.4	1.541	2.424	12.9	21.3	1 12	9 34.90	- 6 21.7	1.982	2.796	13.5	21.6
1 22	9 34.71	+40 11.4	1.501	2.421	10.5	21.2	1 22	9 28.47	- 6 33.7	1.907	2.789	10.9	21.4
2 1	9 22.66	+40 48.3	1.485	2.418	9.6	21.1	2 1	9 20.49	- 6 22.2	1.856	2.782	8.5	21.2
2 11	9 9.78	+40 54.7	1.495	2.415	10.7	21.2	2 11	9 11.82	- 5 47.9	1.831	2.775	7.3	21.2
2 21	8 57.93	+40 28.0	1.529	2.413	13.2	21.3	2 21	9 3.42	- 4 54.0	1.834	2.768	8.2	21.2
3 2	8 48.66	+39 31.2	1.585	2.410	16.1	21.5	3 2	8 56.24	- 3 46.3	1.863	2.760	10.6	21.3
3 12	8 42.92	+38 11.4	1.661	2.408	18.8	21.7	3 12	8 51.05	- 2 32.1	1.916	2.753	13.4	21.5
287605	2003 <i>GH</i> ₂₉		2 6.2 289°43	2°9/ 4.4	17		208952	2002 <i>WU</i> ₄		2 6.2 81°82	3°4/ 3.8	18	
1 2	9 45.51	+22 16.0	1.964	2.781	13.4	20.7	1 2	9 43.33	+25 5.4	2.198	3.017	12.1	20.2
1 12	9 40.15	+22 45.2	1.849	2.746	10.3	20.4	1 12	9 37.74	+25 37.2	2.132	3.028	9.1	20.1
1 22	9 32.07	+23 19.0	1.759	2.710	6.6	20.1	1 22	9 30.06	+26 9.1	2.090	3.039	6.0	19.9
2 1	9 21.82	+23 51.5	1.696	2.674	3.3	19.8	2 1	9 20.97	+26 35.9	2.077	3.050	3.5	19.7
2 11	9 10.42	+24 16.4	1.663	2.637	4.3	19.8	2 11	9 11.46	+26 52.7	2.093	3.061	4.4	19.8
2 21	8 59.15	+24 28.6	1.658	2.600	8.3	19.9	2 21	9 2.54	+26 56.8	2.138	3.072	7.3	20.0
3 2	8 49.32	+24 25.5	1.680	2.562	12.5	20.1	3 2	8 55.12	+26 47.4	2.210	3.082	10.3	20.2
3 12	8 42.01	+24 7.2	1.724	2.524	16.3	20.3	3 12	8 49.85	+26 25.5	2.306	3.093	13.0	20.4
458752	2011 <i>QS</i> ₉₅		2 6.2 190°15	6°5/29.7	17		297486	2000 <i>UL</i> ₂₈		2 6.2 23°31	4°7/ 3.6	18	
1 2	9 47.82	+43 28.1	3.393	4.172	9.1	22.3	1 2	9 41.66	+22 38.8	1.202	2.054	18.0	19.3
1 12	9 40.77	+44 20.6	3.326	4.171	7.8	22.2	1 12	9 37.98	+23 42.4	1.146	2.060	13.5	19.0
1 22	9 31.79	+45 3.9	3.286	4.168	6.8	22.1	1 22	9 30.89	+24 52.4	1.111	2.067	8.7	18.8
2 1	9 21.53	+45 32.5	3.274	4.165	6.5	22.1	2 1	9 21.39	+25 58.2	1.099	2.076	5.0	18.6
2 11	9 10.84	+45 42.9	3.291	4.162	7.2	22.1	2 11	9 11.08	+26 48.9	1.113	2.085	6.4	18.7
2 21	9 0.64	+45 33.6	3.334	4.158	8.4	22.2	2 21	9 1.73	+27 17.7	1.151	2.095	10.9	19.0
3 2	8 51.76	+45 5.6	3.403	4.154	9.9	22.3	3 2	8 54.85	+27 22.5	1.212	2.106	15.4	19.3
3 12	8 44.82	+44 21.8	3.494	4.149	11.3	22.4	3 12	8 51.35	+27 5.6	1.291	2.117	19.2	19.6
337330	2001 <i>DC</i> ₅₇		2 6.2 254°86	0°5/ 6.7	17		340579	2006 <i>PY</i>		2 6.2 182°25	2°1/ 8.5	18	
1													

EPHEMERIDES

2 6.2

2 6.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
213031	1997 <i>OB</i>		2 6.2 128°89	1°0/ 6.9 18			148903	2001 <i>WX</i> ₇₀		2 6.2 8°69	1°1/ 6.8 18		
1 2	9 42.55	+10 24.9	2.188	2.977	13.2	21.1	1 2	9 38.21	+11 18.4	1.420	2.247	17.2	20.1
1 12	9 37.07	+10 50.4	2.114	2.993	10.1	21.0	1 12	9 34.85	+11 34.7	1.349	2.248	13.2	19.9
1 22	9 29.62	+11 27.4	2.065	3.008	6.5	20.8	1 22	9 28.74	+12 7.3	1.299	2.250	8.5	19.6
2 1	9 20.83	+12 12.7	2.044	3.023	2.6	20.5	2 1	9 20.66	+12 52.3	1.273	2.253	3.3	19.3
2 11	9 11.59	+13 1.6	2.053	3.037	1.9	20.5	2 11	9 11.82	+13 43.1	1.273	2.257	2.5	19.3
2 21	9 2.83	+13 49.4	2.093	3.050	5.6	20.8	2 21	9 3.59	+14 32.7	1.299	2.262	7.6	19.6
3 2	8 55.41	+14 32.0	2.161	3.063	9.2	21.0	3 2	8 57.23	+15 15.0	1.351	2.268	12.3	19.9
3 12	8 49.97	+15 6.7	2.254	3.075	12.2	21.2	3 12	8 53.60	+15 46.1	1.423	2.274	16.4	20.1
257256	2009 <i>FA</i> ₄₃		2 6.2 272°91	3°6/ 8.4 18			302022	2000 <i>SA</i> ₁₃₁		2 6.2 161°14	6°3/ 10.8 18		
1 2	9 41.42	+ 5 28.0	1.778	2.565	15.9	21.1	1 2	9 42.96	- 3 17.0	2.003	2.737	16.1	21.3
1 12	9 37.00	+ 5 19.8	1.675	2.546	12.7	20.8	1 12	9 37.65	- 3 38.8	1.918	2.744	13.4	21.1
1 22	9 30.05	+ 5 28.7	1.593	2.526	9.0	20.5	1 22	9 30.16	- 3 39.5	1.854	2.750	10.4	20.9
2 1	9 21.13	+ 5 54.4	1.537	2.506	5.1	20.3	2 1	9 21.10	- 3 18.1	1.815	2.755	7.6	20.7
2 11	9 11.22	+ 6 33.9	1.508	2.486	3.9	20.1	2 11	9 11.41	- 2 36.2	1.804	2.759	6.3	20.7
2 21	9 1.52	+ 7 22.3	1.507	2.466	7.2	20.3	2 21	9 2.12	- 1 38.3	1.821	2.763	7.7	20.8
3 2	8 53.25	+ 8 13.6	1.533	2.445	11.5	20.5	3 2	8 54.21	- 0 30.7	1.865	2.766	10.4	20.9
3 12	8 47.37	+ 9 2.1	1.582	2.424	15.5	20.7	3 12	8 48.45	+ 0 39.8	1.934	2.768	13.4	21.1
123095	2000 <i>SV</i> ₃₃₆		2 6.2 198°93	0°2/ 6.1 18			160096	2000 <i>QJ</i> ₁₁₈		2 6.2 41°69	0°7/ 6.5 18		
1 2	9 45.28	+14 35.8	2.124	2.922	13.2	20.5	1 2	9 45.33	+14 4.1	1.413	2.235	17.5	19.4
1 12	9 39.39	+14 57.9	2.033	2.919	10.1	20.3	1 12	9 40.21	+13 55.5	1.343	2.239	13.4	19.2
1 22	9 31.24	+15 28.9	1.966	2.914	6.3	20.1	1 22	9 32.09	+13 58.0	1.293	2.244	8.5	18.9
2 1	9 21.46	+16 5.1	1.927	2.908	2.2	19.8	2 1	9 21.81	+14 8.3	1.268	2.249	3.2	18.6
2 11	9 10.98	+16 41.5	1.919	2.902	2.1	19.8	2 11	9 10.78	+14 21.3	1.271	2.254	2.6	18.6
2 21	9 0.89	+17 13.8	1.942	2.895	6.3	20.0	2 21	9 0.51	+14 32.3	1.300	2.260	7.9	18.9
3 2	8 52.18	+17 38.6	1.992	2.887	10.2	20.3	3 2	8 52.35	+14 37.9	1.354	2.266	12.7	19.2
3 12	8 45.65	+17 54.0	2.067	2.878	13.5	20.5	3 12	8 47.21	+14 35.9	1.429	2.271	16.8	19.5
327324	2005 <i>UL</i> ₈₁		2 6.2 71°24	3°8/ 3.5 18			394354	2007 <i>BL</i> ₄₃		2 6.2 339°45	1°0/ 5.6 18		
1 2	9 43.14	+22 57.9	1.759	2.587	14.3	20.8	1 2	9 40.10	+13 53.9	1.207	2.047	18.7	20.8
1 12	9 38.03	+24 2.9	1.704	2.606	10.7	20.6	1 12	9 36.89	+14 45.3	1.134	2.042	14.3	20.5
1 22	9 30.42	+25 11.2	1.674	2.626	6.8	20.4	1 22	9 30.37	+15 55.7	1.081	2.038	8.9	20.2
2 1	9 21.14	+26 15.0	1.670	2.645	4.0	20.3	2 1	9 21.32	+17 18.1	1.052	2.034	3.0	19.9
2 11	9 11.35	+27 6.8	1.696	2.664	5.1	20.4	2 11	9 11.17	+18 41.6	1.048	2.030	3.5	19.9
2 21	9 2.31	+27 41.6	1.748	2.683	8.5	20.6	2 21	9 1.65	+19 55.5	1.069	2.027	9.4	20.2
3 2	8 55.08	+27 57.8	1.827	2.702	12.0	20.9	3 2	8 54.35	+20 52.0	1.113	2.025	14.8	20.5
3 12	8 50.39	+27 56.6	1.927	2.721	15.0	21.1	3 12	8 50.38	+21 27.9	1.177	2.023	19.4	20.8
368700	2005 <i>SR</i> ₁₆₀		2 6.2 18°18	3°7/ 4.3 18			420286	2011 <i>RZ</i>		2 6.2 298°00	11°8/ 1.8 17		
1 2	9 42.19	+22 53.3	1.324	2.170	17.0	20.3	1 2	10 21.75	+41 22.2	1.585	2.357	18.1	22.5
1 12	9 38.03	+23 22.5	1.266	2.177	12.8	20.1	1 12	10 10.57	+42 17.7	1.452	2.301	15.6	22.2
1 22	9 30.75	+23 55.3	1.229	2.185	8.2	19.8	1 22	9 53.09	+43 1.4	1.342	2.242	13.1	21.9
2 1	9 21.31	+24 24.0	1.216	2.194	4.2	19.6	2 1	9 29.79	+43 11.8	1.257	2.182	11.8	21.6
2 11	9 11.21	+24 41.0	1.230	2.205	5.2	19.7	2 11	9 2.99	+42 27.8	1.202	2.120	13.0	21.5
2 21	9 2.05	+24 41.9	1.268	2.216	9.6	20.0	2 21	8 36.40	+40 39.7	1.176	2.056	16.7	21.5
3 2	8 55.18	+24 25.7	1.330	2.229	14.0	20.3	3 2	8 13.75	+37 55.1	1.178	1.990	21.4	21.6
3 12	8 51.42	+23 54.1	1.412	2.242	17.7	20.5	3 12	7 57.22	+34 34.0	1.202	1.922	26.0	21.7
82445	2001 <i>OC</i> ₉		2 6.2 137°18	2°6/ 8.2 18			65630	5134 <i>T</i> ₋₃		2 6.2 53°38	0°0/ 6.1 18		
1 2	9 39.85	+ 6 53.5	2.421	3.197	12.5	19.4	1 2	9 41.42	+11 44.1	1.237	2.068	18.9	19.0
1 12	9 34.94	+ 6 44.4	2.336	3.201	9.8	19.2	1 12	9 37.49	+12 39.7	1.181	2.084	14.3	18.8
1 22	9 28.27	+ 6 46.6	2.274	3.206	6.7	19.0	1 22	9 30.46	+13 54.8	1.146	2.100	8.9	18.5
2 1	9 20.39	+ 6 59.2	2.240	3.210	3.7	18.8	2 1	9 21.25	+15 21.8	1.134	2.116	3.1	18.2
2 11	9 12.04	+ 7 19.7	2.235	3.213	2.8	18.8	2 11	9 11.34	+16 49.9	1.149	2.133	2.9	18.2
2 21	9 4.05	+ 7 44.9	2.261	3.217	5.3	18.9	2 21	9 2.30	+18 9.1	1.190	2.150	8.5	18.6
3 2	8 57.18	+ 8 11.6	2.315	3.221	8.4	19.1	3 2	8 55.51	+19 12.1	1.255	2.167	13.5	19.0
3 12	8 52.03	+ 8 36.4	2.394	3.224	11.3	19.3	3 12	8 51.82	+19 55.9	1.340	2.184	17.6	19.3
209617	2005 <i>AD</i> ₁₅		2 6.2 48°29	0°5/ 6.5 18			435332	2007 <i>VX</i> ₄₅		2 6.2 53°84	4°4/ 9.5 18		
1 2	9 44.08	+13 39.5	1.346	2.172	18.0	20.1	1 2	9 39.07	+ 2 1.4	2.127	2.891	14.3	20.7
1 12	9 39.25	+13 43.1	1.286	2.185	13.6	19.8	1 12	9 34.53	+ 1 39.7	2.051	2.903	11.6	20.5
1 22	9 31.42	+13 59.7	1.246	2.198	8.6	19.6	1 22	9 28.09	+ 1 34.1	1.998	2.915	8.5	20.3
2 1	9 21.54	+14 24.8	1.231	2.212	3.1	19.3	2 1	9 20.36	+ 1 44.3	1.971	2.928	5.6	20.2
2 11	9 11.02	+14 52.4	1.243	2.226	2.6	19.3	2 11	9 12.17	+ 2 8.3	1.971	2.940	4.5	20.1
2 21	9 1.38	+15 16.8	1.280	2.241	7.9	19.6	2 21	9 4.42	+ 2 42.4	2.001	2.953	6.3	20.2
3 2	8 53.93	+15 33.7	1.343	2.256	12.7	20.0	3 2	8 57.93	+ 3 22.0	2.058	2.966	9.2	20.4
3 12	8 49.49	+15 41.0	1.427	2.271	16.7	20.2	3 12	8 53.34	+ 4 2.4	2.139	2.978	12.1	20.6
47069	1998 <i>XC</i> ₇₃		2 6.2 3°99	2°9/ 4.8 18			88185	2000 <i>XD</i> ₄₂		2 6.2 83°82	8°7/ 31.1 18		
1 2	9 45.36	+23 47.5	1.696	2.524	14.8	17.3	1 2	9 49.57	+39 21.6	1.944	2.756	13.8	18.2
1 12	9 39.87	+23 45.9	1.622	2.524	11.2	17.1	1 12	9 43.12	+40 29.0	1.889	2.762	11.4	18.1
1 22	9 31.67	+23 44.4	1.572	2.524	7.1	16.8	1 22	9 33.73	+41 25.5	1.858	2.768	9.4	18.0
2 1	9 21.61	+23 38.0	1.547	2.525	3.4	16.6	2 1	9 22.34	+42 1.8	1.852	2.775	8.7	17.9
2 11	9 10.95	+23 22.1	1.551	2.527	4.2	16.6	2 11	9 10.38	+42 11.4	1.873	2.781	9.7	18.0
2 21	9 1.04	+22 54.6	1.582	2.530	8.1	16.9	2 21	8 59.34	+41 52.4	1.919	2.787	11.7	18.2
3 2	8 53.05	+22 15.5	1.640	2.533	12.1	17.1	3 2	8 50.50	+41 7.4	1.988	2.793	14.1	18.3
3 12	8 47.79	+21 26.6	1.719	2.537	15.5	17.4	3 12	8 44.65	+40 2.0	2.078	2.799	16.3	18.5
456675	2007 <i>RG</i> ₁₁₂		2 6.2 108°73	1°1/ 6.9 18			138629	2000 <i>RR</i>		2 6.2 166°18	6°0/ 13.5 18		
1 2	9 44.31	+10 27.2	1.788	2.586	15.4	22.4	1 2	9 36.49	-10 36.7				

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
387457	2013 <i>WK</i> ₉₇		2 6.2 58°24	4.4/ 9.4	18		208335	2001 <i>QV</i> ₁₅₄		2 6.2 156°25	1.3/ 7.2	17	
1 2	9 39.76	+ 2 26.7	2.110	2.875	14.4	20.6	1 2	9 41.56	+11 18.8	2.466	3.253	11.9	20.3
1 12	9 35.08	+ 2 1.4	2.032	2.885	11.6	20.5	1 12	9 36.22	+11 10.5	2.379	3.256	9.2	20.2
1 22	9 28.46	+ 1 51.7	1.977	2.895	8.5	20.3	1 22	9 29.09	+11 10.4	2.317	3.259	6.0	20.0
2 1	9 20.50	+ 1 57.6	1.948	2.905	5.6	20.1	2 1	9 20.73	+11 16.8	2.284	3.261	2.6	19.7
2 11	9 12.05	+ 2 17.2	1.947	2.915	4.5	20.1	2 11	9 11.92	+11 27.1	2.281	3.264	1.9	19.7
2 21	9 4.04	+ 2 46.9	1.974	2.926	6.4	20.2	2 21	9 3.48	+11 38.7	2.309	3.266	5.2	19.9
3 2	8 57.32	+ 3 22.4	2.029	2.936	9.4	20.4	3 2	8 56.19	+11 48.9	2.365	3.268	8.4	20.1
3 12	8 52.52	+ 3 59.0	2.108	2.947	12.3	20.6	3 12	8 50.66	+11 55.8	2.447	3.270	11.3	20.3
37720	Kawanishi		2 6.2 158°73	1.4/ 5.2	18		322364	2011 <i>KA</i> ₃₅		2 6.2 190°66	1.6/ 4.6	18	
1 2	9 45.38	+17 41.5	2.049	2.856	13.3	19.4	1 2	9 39.09	+18 42.8	2.794	3.600	10.2	21.4
1 12	9 39.47	+18 20.4	1.972	2.864	10.0	19.2	1 12	9 34.31	+19 32.5	2.707	3.599	7.6	21.2
1 22	9 31.28	+19 6.4	1.920	2.871	6.2	19.0	1 22	9 27.90	+20 27.6	2.646	3.597	4.7	21.0
2 1	9 21.50	+19 54.4	1.897	2.877	2.3	18.7	2 1	9 20.33	+21 23.9	2.615	3.595	2.0	20.8
2 11	9 11.13	+20 38.3	1.903	2.883	2.9	18.8	2 11	9 12.28	+22 16.8	2.615	3.592	2.6	20.8
2 21	9 1.27	+21 13.6	1.940	2.888	6.8	19.1	2 21	9 4.50	+23 2.4	2.646	3.589	5.6	21.0
3 2	8 52.94	+21 37.3	2.004	2.892	10.5	19.3	3 2	8 57.71	+23 38.0	2.706	3.585	8.4	21.2
3 12	8 46.88	+21 48.6	2.093	2.895	13.7	19.5	3 12	8 52.48	+24 2.4	2.791	3.581	10.9	21.4
82939	2001 <i>QY</i> ₁₁₄		2 6.2 138°07	1.4/ 7.3	18		185495	2007 <i>RV</i> ₁₄₁		2 6.2 105°40	0.3/ 5.9	18	
1 2	9 40.31	+10 31.0	2.470	3.257	11.9	19.5	1 2	9 45.57	+14 33.0	1.762	2.570	15.1	20.9
1 12	9 35.27	+10 29.9	2.386	3.262	9.2	19.4	1 12	9 39.76	+15 2.2	1.699	2.590	11.4	20.7
1 22	9 28.48	+10 38.0	2.326	3.267	6.0	19.2	1 22	9 31.50	+15 41.6	1.659	2.609	7.1	20.5
2 1	9 20.49	+10 53.3	2.295	3.272	2.7	19.0	2 1	9 21.59	+16 26.2	1.647	2.628	2.4	20.2
2 11	9 12.07	+11 13.1	2.294	3.276	1.9	18.9	2 11	9 11.19	+17 9.8	1.663	2.646	2.4	20.3
2 21	9 4.01	+11 34.2	2.323	3.281	5.1	19.1	2 21	9 1.50	+17 47.4	1.709	2.664	6.9	20.6
3 2	8 57.07	+11 53.8	2.381	3.285	8.3	19.3	3 2	8 53.58	+18 15.2	1.782	2.681	10.9	20.9
3 12	8 51.86	+12 9.4	2.464	3.289	11.2	19.5	3 12	8 48.15	+18 31.8	1.878	2.698	14.3	21.1
346703	2008 <i>YE</i> ₁₅₅		2 6.2 277°25	1.5/ 7.2	17		163578	2002 <i>TK</i> ₁₇₃		2 6.2 128°73	4.1/ 2.6	18	
1 2	9 41.03	+11 8.2	2.332	3.123	12.4	21.4	1 2	9 41.99	+26 59.0	2.380	3.199	11.3	19.9
1 12	9 36.04	+10 56.6	2.232	3.110	9.6	21.1	1 12	9 36.76	+27 56.2	2.312	3.206	8.6	19.7
1 22	9 29.11	+10 53.7	2.156	3.098	6.3	20.9	1 22	9 29.52	+28 53.1	2.269	3.214	5.9	19.6
2 1	9 20.77	+10 57.9	2.108	3.085	2.8	20.7	2 1	9 20.90	+29 43.8	2.256	3.221	4.1	19.5
2 11	9 11.82	+11 6.8	2.090	3.073	2.1	20.6	2 11	9 11.80	+30 22.8	2.272	3.228	5.1	19.6
2 21	9 3.14	+11 17.4	2.102	3.060	5.6	20.8	2 21	9 3.17	+30 46.6	2.316	3.235	7.6	19.7
3 2	8 55.62	+11 27.2	2.142	3.047	9.1	21.0	3 2	8 55.90	+30 54.2	2.388	3.242	10.4	19.9
3 12	8 49.94	+11 33.7	2.208	3.034	12.2	21.2	3 12	8 50.63	+30 46.4	2.482	3.248	12.8	20.1
302442	2002 <i>ES</i> ₄₁		2 6.2 14°25	0.7/ 5.9	18		174242	2002 <i>RC</i> ₁₄₈		2 6.2 86°88	1.1/ 5.5	18	
1 2	9 44.93	+16 49.8	1.351	2.182	17.6	20.3	1 2	9 43.31	+16 20.7	1.686	2.505	15.2	20.5
1 12	9 40.11	+16 50.9	1.280	2.183	13.4	20.0	1 12	9 38.26	+16 56.4	1.619	2.517	11.4	20.3
1 22	9 32.14	+17 1.2	1.230	2.185	8.4	19.7	1 22	9 30.68	+17 41.7	1.576	2.529	7.1	20.0
2 1	9 21.89	+17 15.9	1.205	2.187	2.9	19.4	2 1	9 21.34	+18 30.8	1.560	2.541	2.5	19.8
2 11	9 10.82	+17 29.0	1.207	2.190	3.0	19.4	2 11	9 11.41	+19 17.1	1.571	2.553	2.9	19.8
2 21	9 0.52	+17 35.7	1.234	2.193	8.5	19.7	2 21	9 2.15	+19 54.9	1.612	2.565	7.4	20.1
3 2	8 52.45	+17 33.1	1.286	2.196	13.4	20.0	3 2	8 54.68	+20 20.8	1.678	2.577	11.5	20.4
3 12	8 47.53	+17 20.2	1.359	2.200	17.6	20.3	3 12	8 49.75	+20 33.5	1.766	2.588	15.0	20.6
159670	2002 <i>GX</i> ₈₃		2 6.2 261°82	5.0/ 2.1	18		489926	2008 <i>RF</i> ₄		2 6.2 197°59	2.0/ 7.6	18	
1 2	9 42.15	+27 25.4	2.066	2.891	12.5	19.9	1 2	9 44.21	+ 7 58.6	1.844	2.632	15.3	22.8
1 12	9 37.36	+28 34.5	1.984	2.882	9.6	19.7	1 12	9 38.92	+ 8 17.4	1.754	2.630	12.0	22.5
1 22	9 30.16	+29 44.7	1.927	2.872	6.7	19.5	1 22	9 31.15	+ 8 52.4	1.687	2.626	8.0	22.3
2 1	9 21.18	+30 48.6	1.899	2.862	5.0	19.4	2 1	9 21.56	+ 9 41.1	1.646	2.622	3.8	22.0
2 11	9 11.44	+31 38.8	1.898	2.853	6.2	19.4	2 11	9 11.16	+10 38.3	1.635	2.617	2.6	21.9
2 21	9 2.10	+32 10.4	1.926	2.843	9.1	19.6	2 21	9 1.14	+11 38.0	1.652	2.611	6.7	22.2
3 2	8 54.27	+32 21.6	1.979	2.833	12.2	19.8	3 2	8 52.64	+12 34.4	1.698	2.604	10.9	22.4
3 12	8 48.79	+32 13.7	2.053	2.823	15.0	19.9	3 12	8 46.52	+13 22.7	1.767	2.597	14.7	22.6
237656	2001 <i>SV</i> ₁₈₅		2 6.2 292°63	4.3/ 3.3	18		83004	2001 <i>QY</i> ₁₆₀		2 6.2 40°71	1.1/ 7.1	18	
1 2	9 44.58	+27 53.5	2.163	2.982	12.3	19.8	1 2	9 37.81	+10 3.6	1.953	2.757	14.0	19.5
1 12	9 38.98	+28 21.8	2.078	2.973	9.4	19.6	1 12	9 33.80	+10 31.4	1.882	2.768	10.7	19.3
1 22	9 31.04	+28 48.5	2.018	2.963	6.4	19.4	1 22	9 27.76	+11 12.7	1.833	2.779	6.9	19.1
2 1	9 21.45	+29 7.7	1.985	2.953	4.4	19.2	2 1	9 20.31	+12 3.9	1.812	2.790	2.9	18.8
2 11	9 11.22	+29 14.3	1.982	2.943	5.3	19.3	2 11	9 12.36	+12 59.9	1.819	2.802	2.0	18.8
2 21	9 1.49	+29 5.4	2.007	2.933	8.1	19.4	2 21	9 4.89	+13 55.1	1.855	2.814	6.0	19.1
3 2	8 53.30	+28 40.7	2.058	2.924	11.3	19.6	3 2	8 58.79	+14 44.6	1.918	2.827	9.7	19.3
3 12	8 47.41	+28 1.9	2.133	2.914	14.1	19.8	3 12	8 54.72	+15 25.0	2.004	2.839	13.0	19.5
112767	2002 <i>PO</i> ₁₅₆		2 6.2 253°11	0.0/ 6.0	16		263606	2008 <i>FS</i> ₁₃₃		2 6.2 136°93	0.8/ 5.6	18	
1 2	9 42.90	+13 50.2	1.836	2.645	14.6	21.0	1 2	9 42.16	+15 33.8	1.958	2.769	13.7	21.4
1 12	9 38.05	+14 12.5	1.740	2.631	11.2	20.8	1 12	9 37.15	+16 9.8	1.882	2.776	10.3	21.2
1 22	9 30.68	+14 46.3	1.667	2.617	7.1	20.5	1 22	9 29.90	+16 55.1	1.830	2.782	6.4	20.9
2 1	9 21.39	+15 27.8	1.622	2.603	2.5	20.2	2 1	9 21.07	+17 44.9	1.806	2.787	2.2	20.7
2 11	9 11.22	+16 11.4	1.605	2.588	2.3	20.2	2 11	9 11.65	+18 33.3	1.811	2.793	2.5	20.7
2 21	9 1.37	+16 51.5	1.617	2.573	7.1	20.4	2 21	9 2.73	+19 15.2	1.845	2.798	6.7	21.0
3 2	8 53.02	+17 23.7	1.655	2.558	11.4	20.6	3 2	8 55.30	+19 47.0	1.906	2.803	10.5	21.2
3 12	8 47.09	+17 45.2	1.717	2.542	15.2	20.8	3 12	8 50.08	+20 6.9	1.991	2.808	13.8	21.4
482794	2013 <i>MG</i> ₅		2 6.2 153°35	9.4/ 9.1	17		186097	2001 <i>SG</i> ₃₅₄		2 6.2 103°08	2.3/ 4.5	18	
1 2	9 54.51	+ 0 39.9	1.268	2.038	21.9	20.9	1 2	9 43.16	+19 21.0</				

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
341427	2007 <i>TB</i> ₂₁₆		2 6.2 88°16'	2.2/ 4.4	18		430150	2013 <i>TR</i> ₅₀		2 6.2 54°94'	0°0/ 6.0	18	
1 2	9 41.35	+21 16.1	2.321	3.136	11.7	20.8	1 2	9 40.35	+13 39.4	1.891	2.702	14.1	21.2
1 12	9 36.17	+21 50.6	2.254	3.150	8.7	20.7	1 12	9 35.71	+14 7.1	1.830	2.722	10.6	21.1
1 22	9 29.09	+22 28.2	2.212	3.163	5.5	20.5	1 22	9 28.92	+14 45.1	1.792	2.742	6.6	20.9
2 1	9 20.74	+23 4.2	2.199	3.177	2.6	20.3	2 1	9 20.72	+15 29.0	1.781	2.763	2.3	20.6
2 11	9 11.99	+23 33.9	2.216	3.191	3.3	20.4	2 11	9 12.10	+16 13.4	1.800	2.783	2.1	20.6
2 21	9 3.75	+23 54.1	2.262	3.204	6.4	20.6	2 21	9 4.07	+16 53.4	1.846	2.804	6.3	21.0
3 2	8 56.83	+24 3.0	2.336	3.218	9.5	20.8	3 2	8 57.58	+17 25.2	1.920	2.824	10.0	21.2
3 12	8 51.84	+24 0.5	2.434	3.231	12.2	21.0	3 12	8 53.24	+17 46.9	2.018	2.845	13.2	21.5
363201	2001 <i>US</i> ₁₂₄		2 6.2 130°96'	3°8/ 2.8	18		210193	2007 <i>PX</i> ₁₉		2 6.2 101°27'	0°3/ 6.0	18	
1 2	9 43.25	+23 36.8	2.176	2.993	12.3	21.0	1 2	9 46.31	+14 36.8	1.737	2.545	15.3	20.9
1 12	9 37.86	+24 58.2	2.111	3.007	9.2	20.8	1 12	9 40.32	+15 5.3	1.677	2.568	11.5	20.7
1 22	9 30.29	+26 22.8	2.072	3.020	6.0	20.7	1 22	9 31.86	+15 44.0	1.640	2.590	7.1	20.5
2 1	9 21.21	+27 43.2	2.062	3.033	3.9	20.5	2 1	9 21.75	+16 27.6	1.630	2.611	2.4	20.2
2 11	9 11.57	+28 52.2	2.083	3.045	5.0	20.6	2 11	9 11.17	+17 10.2	1.649	2.632	2.4	20.3
2 21	9 2.42	+29 44.9	2.133	3.057	7.9	20.8	2 21	9 1.35	+17 46.4	1.697	2.652	6.9	20.6
3 2	8 54.73	+30 19.0	2.209	3.068	10.9	21.0	3 2	8 53.35	+18 12.9	1.772	2.672	11.0	20.9
3 12	8 49.20	+30 35.1	2.309	3.078	13.5	21.2	3 12	8 47.88	+18 28.2	1.871	2.691	14.4	21.1
425373	2010 <i>CU</i> ₃₁		2 6.2 277°19'	0°4/ 6.7	17		229378	2005 <i>SN</i> ₈		2 6.2 213°24'	1°5/ 5.2	18	
1 2	9 37.39	+9 44.4	2.150	2.948	13.1	20.9	1 2	9 47.26	+17 41.6	1.877	2.686	14.3	21.5
1 12	9 33.54	+10 46.8	2.055	2.939	10.0	20.7	1 12	9 41.32	+18 17.1	1.786	2.678	10.9	21.3
1 22	9 27.69	+12 5.0	1.983	2.930	6.4	20.4	1 22	9 32.74	+19 1.0	1.718	2.669	6.8	21.0
2 1	9 20.34	+13 35.0	1.940	2.921	2.4	20.1	2 1	9 22.16	+19 47.9	1.678	2.659	2.5	20.7
2 11	9 12.32	+15 10.1	1.928	2.911	1.9	20.1	2 11	9 10.71	+20 31.1	1.668	2.648	3.2	20.7
2 21	9 4.54	+16 43.3	1.945	2.902	6.0	20.3	2 21	8 59.64	+21 5.3	1.687	2.636	7.6	21.0
3 2	8 57.91	+18 8.3	1.991	2.893	9.8	20.5	3 2	8 50.20	+21 27.0	1.734	2.623	11.8	21.2
3 12	8 53.19	+19 20.5	2.061	2.883	13.1	20.7	3 12	8 43.30	+21 35.1	1.804	2.610	15.4	21.4
281305	2007 <i>RV</i> ₃₂₂		2 6.2 183°21'	0°7/ 5.6	17		13047	1990 <i>RJ</i> ₅		2 6.2 33°46'	1°7/ 7.2	18	
1 2	9 39.50	+16 1.6	2.425	3.231	11.5	21.3	1 2	9 41.59	+10 50.1	1.386	2.206	17.8	17.8
1 12	9 34.81	+16 35.3	2.341	3.232	8.7	21.1	1 12	9 37.38	+10 49.4	1.321	2.216	13.7	17.5
1 22	9 28.30	+17 16.4	2.281	3.231	5.4	20.9	1 22	9 30.33	+11 4.5	1.278	2.226	8.9	17.3
2 1	9 20.51	+18 0.9	2.250	3.231	1.9	20.6	2 1	9 21.29	+11 31.9	1.258	2.237	3.8	17.0
2 11	9 12.22	+18 44.3	2.249	3.231	2.1	20.7	2 11	9 11.58	+12 6.2	1.266	2.249	2.7	17.0
2 21	9 4.26	+19 22.6	2.279	3.230	5.7	20.9	2 21	9 2.63	+12 41.3	1.299	2.261	7.6	17.3
3 2	8 57.45	+19 52.6	2.336	3.229	9.0	21.1	3 2	8 55.68	+13 11.8	1.357	2.274	12.3	17.6
3 12	8 52.40	+20 12.8	2.418	3.228	11.8	21.3	3 12	8 51.58	+13 33.9	1.437	2.287	16.3	17.9
217794	2000 <i>TU</i> ₄₀		2 6.2 85°29'	5°8/ 2.3	18		257725	1999 <i>XE</i> ₂₃₃		2 6.2 86°86'	3°6/ 3.8	18	
1 2	9 48.08	+30 59.8	1.949	2.768	13.5	19.9	1 2	9 44.39	+21 25.2	1.633	2.462	15.2	19.8
1 12	9 42.61	+31 56.6	1.903	2.793	10.4	19.8	1 12	9 39.22	+22 32.7	1.576	2.478	11.3	19.6
1 22	9 32.83	+32 48.3	1.881	2.818	7.5	19.7	1 22	9 31.35	+23 45.9	1.542	2.495	7.2	19.4
2 1	9 22.05	+33 27.3	1.886	2.842	5.9	19.6	2 1	9 21.62	+24 56.2	1.534	2.511	3.8	19.2
2 11	9 10.91	+33 47.5	1.920	2.867	6.8	19.7	2 11	9 11.30	+25 55.3	1.555	2.527	5.0	19.3
2 21	9 0.67	+33 46.9	1.982	2.891	9.4	19.9	2 21	9 1.74	+26 37.2	1.604	2.543	8.8	19.5
3 2	8 52.40	+33 26.4	2.069	2.914	12.1	20.1	3 2	8 54.13	+26 59.8	1.678	2.558	12.6	19.8
3 12	8 46.76	+32 49.5	2.178	2.937	14.6	20.3	3 12	8 49.23	+27 3.7	1.773	2.574	15.8	20.1
53610	2000 <i>CM</i> ₈₂		2 6.2 211°84'	1°1/ 5.5	18		295429	2008 <i>KY</i> ₃₁		2 6.2 24°47'	5°9/ 1.5	18	
1 2	9 44.51	+17 29.8	2.096	2.903	13.1	19.0	1 2	9 41.35	+26 29.6	1.721	2.557	14.2	20.3
1 12	9 38.91	+17 51.1	2.006	2.898	9.9	18.8	1 12	9 37.15	+28 11.4	1.655	2.558	10.8	20.1
1 22	9 31.03	+18 19.0	1.941	2.891	6.2	18.5	1 22	9 30.22	+29 56.3	1.613	2.560	7.6	19.9
2 1	9 21.51	+18 49.3	1.904	2.885	2.2	18.3	2 1	9 21.29	+31 34.0	1.598	2.562	5.9	19.8
2 11	9 11.30	+19 17.1	1.897	2.878	2.6	18.3	2 11	9 11.55	+32 54.4	1.611	2.563	7.3	19.9
2 21	9 1.50	+19 38.3	1.919	2.870	6.6	18.5	2 21	9 2.35	+33 50.9	1.651	2.565	10.5	20.1
3 2	8 53.12	+19 50.2	1.969	2.862	10.4	18.7	3 2	8 54.95	+34 21.1	1.715	2.568	13.8	20.3
3 12	8 46.94	+19 51.8	2.044	2.853	13.7	18.9	3 12	8 50.24	+34 27.0	1.799	2.570	16.8	20.5
420908	2013 <i>MC</i> ₄		2 6.2 115°93'	2°4/ 8.0	18		196897	2003 <i>TR</i> ₆		2 6.2 181°49'	6°2/ 31.8	18	
1 2	9 43.66	+7 37.9	2.339	3.112	12.9	21.2	1 2	9 43.83	+32 37.6	2.238	3.057	11.9	19.7
1 12	9 37.77	+7 26.4	2.265	3.130	10.1	21.0	1 12	9 38.49	+33 51.8	2.170	3.058	9.4	19.5
1 22	9 30.04	+7 26.0	2.215	3.148	6.8	20.8	1 22	9 30.81	+35 2.4	2.127	3.058	7.2	19.4
2 1	9 21.08	+7 35.4	2.194	3.165	3.6	20.7	2 1	9 21.45	+36 1.5	2.112	3.058	6.2	19.3
2 11	9 11.74	+7 51.9	2.203	3.182	2.7	20.6	2 11	9 11.47	+36 42.8	2.125	3.058	7.2	19.4
2 21	9 2.89	+8 12.5	2.242	3.198	5.4	20.8	2 21	9 1.98	+37 2.5	2.165	3.057	9.5	19.5
3 2	8 55.31	+8 33.9	2.310	3.213	8.6	21.0	3 2	8 54.05	+37 0.5	2.231	3.056	12.1	19.7
3 12	8 49.59	+8 53.2	2.404	3.229	11.4	21.3	3 12	8 48.44	+36 39.2	2.318	3.056	14.4	19.9
391859	2008 <i>TP</i> ₂₄		2 6.2 163°26'	3°8/ 8.9	18		130952	2000 <i>WB</i> ₇₆		2 6.2 133°17'	4°4/ 3.3	18	
1 2	9 44.00	+3 29.3	1.858	2.629	15.9	21.6	1 2	9 47.38	+25 9.9	1.784	2.607	14.4	19.8
1 12	9 38.63	+3 33.7	1.775	2.635	12.7	21.4	1 12	9 41.38	+26 7.8	1.720	2.618	10.9	19.6
1 22	9 30.90	+3 56.9	1.714	2.640	9.0	21.2	1 22	9 32.68	+27 7.2	1.680	2.628	7.2	19.5
2 1	9 21.46	+4 37.6	1.679	2.645	5.3	21.0	2 1	9 22.11	+28 0.1	1.667	2.638	4.6	19.3
2 11	9 11.35	+5 31.9	1.673	2.649	3.9	20.9	2 11	9 10.91	+28 38.9	1.682	2.647	5.7	19.4
2 21	9 1.69	+6 34.0	1.696	2.652	6.8	21.1	2 21	9 0.43	+28 59.3	1.726	2.656	9.0	19.6
3 2	8 53.56	+7 37.6	1.746	2.655	10.6	21.3	3 2	8 51.88	+29 0.3	1.796	2.664	12.5	19.8
3 12	8 47.73	+8 36.9	1.821	2.656	14.0	21.5	3 12	8 46.05	+28 43.9	1.887	2.672	15.6	20.1
82972	2001 <i>QR</i> ₁₃₆		2 6.2 202°32'	2°4/ 4.8	18		226588	2004 <i>BJ</i> ₂₃		2 6.2 68°34'	3°4/ 7.9	18	
1 2	9 47.42	+22 20.9	2.123	2.933	12.8	19.1	1 2	9 45.29	+7 58.3	1.268			

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2 6.2

2 6.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
350617	2001 SS ₁₇₁		2 6.2 137°99	2°3/ 4.8 18			64101	2001 TC ₁		2 6.2 68°43	5°8/ 3.1 18		
1 2	9 47.38	+19 22.9	1.722	2.539	15.0	21.8	1 2	9 48.04	+26 8.6	1.324	2.163	17.4	19.3
1 12	9 41.37	+20 4.0	1.654	2.550	11.3	21.6	1 12	9 42.55	+27 14.6	1.274	2.180	13.2	19.1
1 22	9 32.68	+20 51.9	1.609	2.561	7.0	21.4	1 22	9 33.68	+28 21.2	1.247	2.197	8.9	18.9
2 1	9 22.12	+21 39.8	1.591	2.571	2.9	21.2	2 1	9 22.51	+29 17.5	1.244	2.214	5.9	18.8
2 11	9 10.92	+22 20.7	1.602	2.580	3.8	21.2	2 11	9 10.70	+29 53.9	1.267	2.231	7.2	18.9
2 21	9 0.41	+22 49.5	1.642	2.589	8.0	21.5	2 21	9 0.03	+30 5.7	1.316	2.248	11.0	19.1
3 2	8 51.80	+23 3.7	1.709	2.597	12.0	21.8	3 2	8 51.92	+29 53.3	1.388	2.265	15.0	19.4
3 12	8 45.89	+23 3.5	1.798	2.604	15.4	22.0	3 12	8 47.21	+29 20.7	1.480	2.282	18.4	19.7
318701	2005 QS ₁₀₂		2 6.2 254°80	2°0/ 5.2 18			361397	2006 WL ₂₁		2 6.2 93°63	1°2/ 5.4 18		
1 2	9 47.19	+20 57.6	1.846	2.661	14.2	20.5	1 2	9 43.36	+16 2.3	1.839	2.652	14.4	20.8
1 12	9 41.21	+21 1.9	1.760	2.656	10.8	20.2	1 12	9 38.09	+16 50.7	1.777	2.672	10.7	20.6
1 22	9 32.60	+21 9.2	1.699	2.650	6.8	20.0	1 22	9 30.51	+17 48.2	1.740	2.692	6.6	20.4
2 1	9 22.12	+21 14.7	1.665	2.644	2.8	19.7	2 1	9 21.35	+18 49.1	1.730	2.711	2.3	20.1
2 11	9 10.91	+21 13.8	1.659	2.639	3.3	19.7	2 11	9 11.71	+19 46.6	1.749	2.730	2.8	20.2
2 21	9 0.26	+21 3.5	1.683	2.633	7.5	20.0	2 21	9 2.72	+20 35.0	1.797	2.748	7.0	20.5
3 2	8 51.36	+20 42.6	1.734	2.627	11.6	20.2	3 2	8 55.37	+21 10.9	1.873	2.767	10.8	20.7
3 12	8 45.05	+20 11.8	1.808	2.621	15.1	20.4	3 12	8 50.37	+21 33.0	1.971	2.785	14.0	21.0
138093	2000 DF ₇₂		2 6.2 30°58	1°9/ 7.5 18			462873	2010 VR ₉₆		2 6.2 63°68	3°4/ 8.7 18		
1 2	9 38.15	+7 44.3	1.357	2.175	18.2	19.4	1 2	9 40.65	+4 17.1	1.630	2.419	17.0	21.5
1 12	9 34.87	+8 20.5	1.293	2.185	14.1	19.2	1 12	9 36.24	+4 33.6	1.567	2.439	13.4	21.3
1 22	9 28.83	+9 18.8	1.249	2.196	9.3	18.9	1 22	9 29.44	+5 10.7	1.525	2.458	9.2	21.1
2 1	9 20.82	+10 34.6	1.229	2.207	4.1	18.6	2 1	9 21.01	+6 5.9	1.508	2.478	5.1	20.9
2 11	9 12.10	+11 59.5	1.236	2.219	2.7	18.6	2 11	9 12.06	+7 13.4	1.519	2.498	3.6	20.8
2 21	9 4.06	+13 24.0	1.269	2.232	7.6	18.9	2 21	9 3.75	+8 26.0	1.557	2.518	6.8	21.1
3 2	8 57.94	+14 39.8	1.327	2.246	12.3	19.2	3 2	8 57.12	+9 36.5	1.622	2.537	10.7	21.3
3 12	8 54.58	+15 41.0	1.406	2.260	16.4	19.5	3 12	8 52.90	+10 39.2	1.710	2.557	14.3	21.6
29402	Obelix		2 6.2 115°83	3°0/ 3.9 18			272623	2005 WJ ₄₀		2 6.2 199°53	2°1/ 4.6 17		
1 2	9 42.05	+23 50.7	2.324	3.141	11.6	19.5	1 2	9 41.97	+19 26.7	2.165	2.979	12.5	21.8
1 12	9 36.83	+24 24.6	2.249	3.145	8.7	19.3	1 12	9 36.98	+20 12.6	2.081	2.977	9.4	21.6
1 22	9 29.61	+25 0.0	2.200	3.149	5.6	19.2	1 22	9 29.84	+21 4.6	2.022	2.974	5.8	21.4
2 1	9 21.02	+25 31.8	2.178	3.153	3.2	19.0	2 1	9 21.17	+21 57.5	1.992	2.971	2.5	21.1
2 11	9 11.95	+25 55.3	2.187	3.157	4.0	19.1	2 11	9 11.87	+22 45.4	1.992	2.968	3.3	21.2
2 21	9 3.35	+26 7.4	2.224	3.160	6.9	19.2	2 21	9 2.95	+23 23.6	2.020	2.965	6.9	21.4
3 2	8 56.09	+26 6.8	2.289	3.164	9.9	19.4	3 2	8 55.39	+23 49.1	2.077	2.961	10.4	21.6
3 12	8 50.83	+25 53.8	2.378	3.167	12.6	19.6	3 12	8 49.90	+24 1.2	2.156	2.956	13.4	21.8
312991	1999 TZ ₁₂₆		2 6.2 136°45	1°2/ 7.1 18			318104	2004 HT ₄₅		2 6.3 255°95	3°8/ 8.9 18		
1 2	9 43.74	+10 12.0	1.979	2.771	14.3	21.2	1 2	9 40.63	+3 38.8	2.029	2.801	14.7	20.9
1 12	9 38.26	+10 33.5	1.904	2.783	11.0	21.0	1 12	9 36.13	+3 34.0	1.927	2.787	11.8	20.7
1 22	9 30.58	+11 7.8	1.852	2.795	7.1	20.8	1 22	9 29.44	+3 46.0	1.847	2.772	8.5	20.4
2 1	9 21.37	+11 51.6	1.828	2.806	3.0	20.6	2 1	9 21.08	+4 14.5	1.792	2.757	5.2	20.2
2 11	9 11.63	+12 40.0	1.833	2.817	2.1	20.5	2 11	9 11.93	+4 56.7	1.766	2.741	3.9	20.1
2 21	9 2.39	+13 27.8	1.869	2.827	6.1	20.8	2 21	9 3.00	+5 48.2	1.769	2.725	6.6	20.2
3 2	8 54.64	+14 10.3	1.932	2.836	10.0	21.0	3 2	8 55.31	+6 43.5	1.800	2.709	10.2	20.4
3 12	8 49.07	+14 44.6	2.019	2.845	13.3	21.3	3 12	8 49.69	+7 37.1	1.854	2.693	13.7	20.6
350636	2001 TJ ₆₁		2 6.2 67°51	1°9/ 5.2 18			269217	2008 ND ₁		2 6.3 352°75	2°0/ 5.8 18		
1 2	9 46.52	+17 22.0	1.315	2.146	18.0	20.7	1 2	9 53.36	-13 47.1	1.265	1.965	25.3	18.6
1 12	9 41.13	+18 7.0	1.266	2.170	13.4	20.5	1 12	9 47.54	-18 32.0	1.191	1.953	23.5	18.4
1 22	9 32.64	+19 2.3	1.239	2.194	8.3	20.2	1 22	9 37.67	-22 59.4	1.138	1.943	21.9	18.3
2 1	9 22.10	+19 59.6	1.237	2.218	3.1	20.0	2 1	9 24.29	-26 49.5	1.107	1.935	21.0	18.2
2 11	9 11.04	+20 50.1	1.262	2.242	3.8	20.1	2 11	9 8.82	-29 45.0	1.098	1.929	21.0	18.2
2 21	9 1.05	+21 27.4	1.313	2.266	8.8	20.5	2 21	8 53.34	-31 37.3	1.109	1.926	22.0	18.2
3 2	8 53.42	+21 48.3	1.389	2.290	13.3	20.8	3 2	8 40.05	-32 28.6	1.137	1.924	23.5	18.3
3 12	8 48.93	+21 52.9	1.486	2.314	17.0	21.1	3 12	8 30.69	-32 31.4	1.178	1.925	25.1	18.4
384179	2009 BK ₅₆		2 6.2 111°77	0°5/ 5.9 18			518830	2010 CH ₁₉₅		2 6.3 203°27	7°8/ 15.5 17		
1 2	9 41.26	+16 30.5	2.444	3.247	11.6	21.2	1 2	9 36.79	-16 35.7	3.087	3.711	12.9	22.4
1 12	9 36.05	+16 41.3	2.365	3.254	8.7	21.0	1 12	9 32.52	-17 0.0	2.986	3.707	11.5	22.2
1 22	9 29.04	+16 57.6	2.312	3.261	5.4	20.8	1 22	9 26.81	-17 4.6	2.904	3.702	10.1	22.1
2 1	9 20.81	+17 16.4	2.287	3.268	1.9	20.6	2 1	9 20.07	-16 47.4	2.845	3.698	8.7	22.0
2 11	9 12.16	+17 34.1	2.293	3.275	1.9	20.6	2 11	9 12.89	-16 8.3	2.812	3.693	7.9	21.9
2 21	9 3.94	+17 47.8	2.329	3.282	5.4	20.9	2 21	9 5.89	-15 9.4	2.805	3.687	8.0	21.9
3 2	8 56.92	+17 55.5	2.393	3.289	8.7	21.1	3 2	8 59.72	-13 54.5	2.825	3.681	8.9	22.0
3 12	8 51.69	+17 55.9	2.483	3.296	11.5	21.3	3 12	8 54.88	-12 29.3	2.871	3.675	10.3	22.1
208983	2003 AZ ₈		2 6.2 11°99	16°2/ 27.7 18			184883	2005 UL ₂₁₃		2 6.3 188°25	0°1/ 6.4 18		
1 2	9 57.96	+56 8.2	1.529	2.305	18.5	19.5	1 2	9 41.35	+12 30.8	2.403	3.196	12.0	21.4
1 12	9 51.22	+57 29.1	1.500	2.312	17.1	19.4	1 12	9 36.26	+13 8.9	2.313	3.195	9.2	21.2
1 22	9 39.46	+58 20.9	1.490	2.320	16.3	19.4	1 22	9 29.29	+13 57.4	2.248	3.194	5.8	20.9
2 1	9 24.47	+58 30.9	1.498	2.330	16.3	19.4	2 1	9 20.97	+14 52.5	2.212	3.192	2.1	20.7
2 11	9 9.09	+57 52.6	1.527	2.341	17.0	19.5	2 11	9 12.08	+15 49.5	2.206	3.190	1.8	20.7
2 21	8 56.05	+56 28.6	1.574	2.353	18.2	19.6	2 21	9 3.50	+16 43.5	2.232	3.186	5.5	20.9
3 2	8 47.14	+54 27.5	1.639	2.367	19.7	19.7	3 2	8 56.05	+17 30.8	2.286	3.182	9.0	21.1
3 12	8 42.94	+52 1.0	1.719	2.381	21.1	19.9	3 12	8 50.41	+18 8.5	2.365	3.178	12.0	21.3
294377	2007 VO ₁₃₂		2 6.2 292°88	0°0/ 6.0 17			454159	2013 EO ₁₁₁		2 6.3 349°03	0°0/ 6.0 18		
1 2	9 39.41	+14 18.9	2.220	3.026	12.5	21.3	1 2	9 40.60	+12 24.7	1.479	2.302	16.8	21.7
1 12	9 34.95	+14 37.7	2.131	3									

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2 6.3

2 6.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
80816	2000 CR ₁₂₂		2 6.3 151°75	1°3/ 5.5	18		503119	2015 FL ₃₃₁		2 6.3 304°92	2°3/ 4.4	17	
1 2	9 48.11	+17 19.9	1.773	2.583	15.0	19.3	1 2	9 39.37	+20 34.7	2.168	2.989	12.2	21.3
1 12	9 41.88	+17 48.3	1.700	2.592	11.3	19.1	1 12	9 35.12	+21 15.3	2.078	2.977	9.2	21.1
1 22	9 33.01	+18 24.7	1.650	2.601	7.0	18.9	1 22	9 28.76	+22 1.2	2.012	2.965	5.8	20.8
2 1	9 22.30	+19 3.4	1.628	2.609	2.5	18.6	2 1	9 20.85	+22 47.5	1.974	2.953	2.7	20.6
2 11	9 10.93	+19 38.4	1.635	2.616	3.0	18.7	2 11	9 12.29	+23 28.5	1.965	2.941	3.5	20.6
2 21	9 0.21	+20 4.6	1.671	2.622	7.4	18.9	2 21	9 4.05	+23 59.7	1.985	2.929	7.0	20.8
3 2	8 51.32	+20 19.4	1.734	2.627	11.5	19.2	3 2	8 57.09	+24 18.4	2.032	2.918	10.5	21.0
3 12	8 45.05	+20 22.0	1.820	2.632	15.0	19.4	3 12	8 52.15	+24 23.6	2.102	2.907	13.6	21.2
465517	2008 UD ₁₃₉		2 6.3 113°61	0°5/ 6.6	17		206894	2004 HY ₁₀		2 6.3 301°26	0°2/ 6.4	17	
1 2	9 40.41	+12 27.6	2.262	3.060	12.5	22.1	1 2	9 39.36	+13 57.9	2.177	2.983	12.7	20.3
1 12	9 35.55	+12 48.6	2.185	3.070	9.5	22.0	1 12	9 35.12	+14 10.6	2.071	2.961	9.7	20.1
1 22	9 28.82	+13 19.2	2.133	3.079	6.0	21.8	1 22	9 28.80	+14 32.5	1.990	2.938	6.2	19.8
2 1	9 20.79	+13 56.2	2.108	3.088	2.3	21.5	2 1	9 20.89	+15 0.6	1.935	2.916	2.2	19.5
2 11	9 12.31	+14 35.4	2.114	3.097	1.8	21.5	2 11	9 12.25	+15 31.0	1.910	2.894	1.9	19.4
2 21	9 4.24	+15 12.6	2.149	3.106	5.5	21.8	2 21	9 3.81	+15 59.5	1.914	2.872	6.1	19.7
3 2	8 57.42	+15 44.5	2.212	3.115	9.0	22.0	3 2	8 56.54	+16 22.6	1.946	2.850	9.9	19.9
3 12	8 52.46	+16 8.7	2.301	3.123	11.9	22.2	3 12	8 51.23	+16 37.8	2.002	2.828	13.3	20.0
401829	1998 SX ₃₁		2 6.3 94°14	0°3/ 6.0	18		55170	2001 QU ₂₅₅		2 6.3 21°12	4°0/ 9.6	18	
1 2	9 44.73	+14 22.0	1.808	2.616	14.8	22.3	1 2	9 37.07	+ 2 3.2	2.080	2.850	14.4	19.2
1 12	9 39.11	+14 52.9	1.747	2.638	11.1	22.1	1 12	9 33.26	+ 2 7.9	1.996	2.853	11.6	19.0
1 22	9 31.14	+15 33.8	1.709	2.659	6.9	21.9	1 22	9 27.52	+ 2 30.5	1.933	2.855	8.4	18.8
2 1	9 21.61	+16 20.0	1.699	2.680	2.4	21.7	2 1	9 20.40	+ 3 10.3	1.897	2.858	5.3	18.6
2 11	9 11.61	+17 5.3	1.718	2.701	2.3	21.7	2 11	9 12.74	+ 4 3.8	1.888	2.862	4.0	18.5
2 21	9 2.31	+17 44.6	1.766	2.721	6.7	22.0	2 21	9 5.44	+ 5 6.1	1.908	2.865	6.1	18.7
3 2	8 54.72	+18 14.5	1.842	2.741	10.6	22.3	3 2	8 59.35	+ 6 11.4	1.956	2.869	9.3	18.9
3 12	8 49.52	+18 33.2	1.940	2.761	13.9	22.5	3 12	8 55.15	+ 7 14.1	2.028	2.873	12.4	19.1
341309	2007 SW ₃		2 6.3 118°97	6°1/13.4	18		290183	2005 SZ ₄		2 6.3 97°45	1°9/ 7.7	18	
1 2	9 38.14	- 9 50.2	2.901	3.577	12.7	21.8	1 2	9 40.28	+ 8 8.3	1.871	2.666	14.9	20.8
1 12	9 33.44	- 9 55.2	2.820	3.596	10.9	21.7	1 12	9 35.87	+ 8 28.0	1.792	2.671	11.5	20.6
1 22	9 27.32	- 9 41.5	2.761	3.614	8.9	21.6	1 22	9 29.24	+ 9 3.4	1.735	2.676	7.7	20.4
2 1	9 20.24	- 9 8.6	2.728	3.632	7.1	21.5	2 1	9 21.02	+ 9 51.5	1.705	2.681	3.6	20.1
2 11	9 12.82	- 8 17.8	2.722	3.649	6.1	21.5	2 11	9 12.19	+10 47.4	1.703	2.686	2.4	20.1
2 21	9 5.72	- 7 12.6	2.745	3.666	6.5	21.5	2 21	9 3.81	+11 45.2	1.730	2.691	6.3	20.3
3 2	8 59.55	- 5 57.6	2.797	3.682	8.0	21.6	3 2	8 56.87	+12 39.3	1.785	2.695	10.2	20.6
3 12	8 54.80	- 4 38.2	2.875	3.698	9.8	21.8	3 12	8 52.12	+13 25.6	1.863	2.700	13.7	20.8
429742	2011 QG ₂₈		2 6.3 192°35	2°8/ 9.6	17		48351	6250 P-L		2 6.3 110°62	2°8/ 7.9	18	
1 2	9 36.85	+ 0 54.6	2.973	3.716	11.1	21.8	1 2	9 44.06	+ 7 24.2	1.421	2.225	18.3	19.8
1 12	9 32.56	+ 1 35.0	2.872	3.714	8.9	21.6	1 12	9 39.33	+ 7 31.8	1.349	2.233	14.3	19.6
1 22	9 26.84	+ 2 30.6	2.796	3.712	6.4	21.5	1 22	9 31.69	+ 7 59.2	1.298	2.240	9.6	19.3
2 1	9 20.10	+ 3 39.9	2.749	3.710	4.0	21.3	2 1	9 21.94	+ 8 43.9	1.271	2.247	4.7	19.1
2 11	9 12.94	+ 4 59.5	2.733	3.707	2.9	21.2	2 11	9 11.39	+ 9 39.8	1.271	2.253	3.3	19.0
2 21	9 5.97	+ 6 24.9	2.749	3.704	4.6	21.3	2 21	9 1.49	+10 39.5	1.298	2.260	7.7	19.3
3 2	8 59.82	+ 7 51.2	2.795	3.700	7.2	21.5	3 2	8 53.57	+11 35.8	1.351	2.266	12.5	19.6
3 12	8 55.02	+ 9 13.7	2.869	3.697	9.7	21.7	3 12	8 48.55	+12 23.2	1.425	2.273	16.6	19.8
232751	2004 KJ		2 6.3 203°87	5°0/ 1.1	18		255530	2006 FK ₅₁		2 6.3 192°62	3°1/ 8.5	18	
1 2	9 42.29	+32 59.4	2.903	3.713	9.7	21.1	1 2	9 42.31	+ 5 8.3	1.873	2.653	15.4	20.9
1 12	9 36.87	+33 55.9	2.826	3.709	7.7	21.0	1 12	9 37.49	+ 5 20.0	1.784	2.651	12.2	20.7
1 22	9 29.62	+34 48.9	2.776	3.705	5.8	20.8	1 22	9 30.33	+ 5 49.6	1.718	2.650	8.5	20.5
2 1	9 21.09	+35 32.7	2.755	3.700	5.0	20.8	2 1	9 21.46	+ 6 35.5	1.678	2.648	4.6	20.2
2 11	9 12.06	+36 2.9	2.763	3.695	5.8	20.8	2 11	9 11.85	+ 7 33.3	1.666	2.645	3.3	20.1
2 21	9 3.38	+36 16.9	2.800	3.690	7.7	20.9	2 21	9 2.61	+ 8 37.1	1.683	2.642	6.6	20.3
3 2	8 55.87	+36 14.1	2.864	3.684	9.8	21.1	3 2	8 54.81	+ 9 40.7	1.728	2.638	10.5	20.6
3 12	8 50.13	+35 55.9	2.950	3.678	11.8	21.2	3 12	8 49.27	+10 38.6	1.797	2.634	14.1	20.8
490810	2010 VA ₁₁₇		2 6.3 119°11	5°5/ 2.1	18		335956	2007 TP ₁₂₀		2 6.3 122°35	0°3/ 5.9	18	
1 2	9 47.90	+30 11.5	2.102	2.918	12.7	21.8	1 2	9 40.22	+15 3.2	2.631	3.429	11.0	21.9
1 12	9 41.45	+31 17.2	2.047	2.936	9.8	21.6	1 12	9 35.18	+15 30.7	2.556	3.442	8.2	21.7
1 22	9 32.59	+32 19.5	2.017	2.954	7.0	21.5	1 22	9 28.50	+16 5.0	2.507	3.456	5.1	21.5
2 1	9 22.12	+33 10.7	2.015	2.971	5.5	21.4	2 1	9 20.72	+16 42.6	2.488	3.469	1.8	21.3
2 11	9 11.18	+33 44.6	2.042	2.988	6.5	21.5	2 11	9 12.57	+17 19.7	2.499	3.481	1.8	21.3
2 21	9 0.96	+33 58.1	2.097	3.004	9.0	21.7	2 21	9 4.79	+17 52.9	2.540	3.494	5.1	21.6
3 2	8 52.50	+33 51.5	2.179	3.019	11.8	21.9	3 2	8 58.11	+18 19.5	2.611	3.505	8.1	21.8
3 12	8 46.50	+33 27.5	2.282	3.034	14.2	22.1	3 12	8 53.06	+18 38.0	2.707	3.517	10.7	22.0
382218	2012 QY ₁₉		2 6.3 322°59	1°6/ 5.2	18		8152	Martinlee		2 6.3 57°39	1°2/ 5.7	18	
1 2	9 42.15	+19 40.4	2.158	2.973	12.5	20.6	1 2	9 47.71	+17 8.4	1.267	2.099	18.5	17.6
1 12	9 37.06	+19 57.7	2.076	2.971	9.4	20.4	1 12	9 42.09	+17 26.7	1.220	2.123	13.9	17.4
1 22	9 29.87	+20 19.4	2.018	2.970	5.9	20.2	1 22	9 33.30	+17 54.5	1.193	2.148	8.6	17.1
2 1	9 21.20	+20 41.2	1.988	2.969	2.3	19.9	2 1	9 22.45	+18 25.4	1.191	2.173	3.0	16.9
2 11	9 11.97	+20 58.7	1.988	2.967	2.9	20.0	2 11	9 11.13	+18 52.0	1.216	2.198	3.3	17.0
2 21	9 3.20	+21 8.7	2.017	2.966	6.5	20.2	2 21	9 0.96	+19 9.0	1.267	2.224	8.5	17.3
3 2	8 55.80	+21 9.0	2.073	2.965	10.0	20.4	3 2	8 53.27	+19 13.9	1.343	2.249	13.2	17.7
3 12	8 50.48	+20 59.4	2.154	2.964	13.1	20.6	3 12	8 48.79	+19 6.7	1.439	2.275	17.1	18.0
426908	2013 WZ ₇₆		2 6.3 17°99	5°2/10.2	18		342895	2008 YT ₁₀₀		2 6.3 53°48	1°3/ 7.2	18	
1 2	9 38.47	- 0 0.1	2.048	2.807	15.0	20.1	1 2	9 41.04	+11 24.1	2.188	2.983	13.0	20.4
1 12	9 34.34	- 0 22.9	1.963	2.808	12.3								

EPHEMERIDES

2 6.3

2 6.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
129835	1999 <i>RW</i> ₁₃		2 6.3 222°64	0°7/ 5.8	18		288061	2003 <i>UW</i> ₃₁₉		2 6.3 177°56	1°3/ 7.2	18	
1 2	9 43.70	+15 8.3	1.957	2.765	13.9	20.9	1 2	9 42.99	+9 36.9	1.988	2.779	14.3	21.5
1 12	9 38.58	+15 45.7	1.865	2.756	10.5	20.6	1 12	9 37.87	+10 2.1	1.903	2.781	11.0	21.3
1 22	9 31.06	+16 33.6	1.796	2.746	6.6	20.4	1 22	9 30.51	+10 41.3	1.841	2.783	7.2	21.1
2 1	9 21.75	+17 27.5	1.755	2.736	2.3	20.1	2 1	9 21.54	+11 31.2	1.806	2.784	3.1	20.8
2 11	9 11.62	+18 21.2	1.744	2.726	2.5	20.1	2 11	9 11.90	+12 26.8	1.801	2.784	2.1	20.7
2 21	9 1.83	+19 9.0	1.762	2.715	6.9	20.3	2 21	9 2.66	+13 22.5	1.825	2.784	6.2	21.0
3 2	8 53.47	+19 46.5	1.807	2.703	11.0	20.5	3 2	8 54.83	+14 13.2	1.878	2.783	10.1	21.2
3 12	8 47.40	+20 11.6	1.876	2.691	14.5	20.7	3 12	8 49.17	+14 55.3	1.954	2.781	13.6	21.5
403885	2011 <i>WB</i> ₁₀₆		2 6.3 69°06	3°0/ 4.5	18		283528	2001 <i>TF</i> ₁₄₁		2 6.3 51°62	1°8/ 5.2	18	
1 2	9 44.23	+20 13.0	1.513	2.345	16.0	21.7	1 2	9 42.46	+15 47.8	1.294	2.130	18.0	20.0
1 12	9 39.42	+21 2.0	1.448	2.352	12.0	21.5	1 12	9 38.42	+16 45.9	1.234	2.140	13.5	19.8
1 22	9 31.72	+21 58.4	1.405	2.359	7.6	21.2	1 22	9 31.25	+17 58.4	1.194	2.150	8.4	19.5
2 1	9 21.97	+22 54.5	1.388	2.367	3.5	21.0	2 1	9 21.85	+19 17.1	1.178	2.160	3.0	19.2
2 11	9 11.49	+23 41.8	1.398	2.374	4.5	21.1	2 11	9 11.66	+20 31.6	1.190	2.171	3.8	19.3
2 21	9 1.74	+24 14.4	1.435	2.382	8.9	21.4	2 21	9 2.26	+21 33.0	1.227	2.182	9.0	19.6
3 2	8 54.02	+24 29.4	1.497	2.390	13.1	21.6	3 2	8 55.07	+22 16.0	1.288	2.193	13.8	19.9
3 12	8 49.18	+24 27.4	1.581	2.398	16.7	21.9	3 12	8 50.99	+22 39.3	1.370	2.204	17.9	20.2
17252	2000 <i>GJ</i> ₁₂₇		2 6.3 132°11	1°7/ 4.4	18		467184	2016 <i>ET</i> ₁₁₅		2 6.3 17°82	9°3/ 2.1	18	
1 2	9 39.28	+18 56.7	2.821	3.627	10.1	17.6	1 2	9 49.76	+36 5.3	1.365	2.201	17.2	20.1
1 12	9 34.47	+19 57.8	2.748	3.640	7.5	17.4	1 12	9 44.16	+36 54.8	1.313	2.206	13.9	19.9
1 22	9 28.07	+21 3.8	2.702	3.653	4.6	17.3	1 22	9 34.87	+37 33.1	1.281	2.212	10.8	19.7
2 1	9 20.59	+22 10.2	2.686	3.665	2.1	17.1	2 1	9 23.08	+37 49.0	1.273	2.220	9.3	19.7
2 11	9 12.72	+23 12.2	2.701	3.676	2.8	17.2	2 11	9 10.66	+37 34.6	1.289	2.228	10.3	19.8
2 21	9 5.16	+24 5.7	2.748	3.688	5.5	17.4	2 21	8 59.53	+36 48.6	1.330	2.237	13.1	19.9
3 2	8 58.60	+24 48.2	2.823	3.698	8.2	17.6	3 2	8 51.25	+35 35.5	1.393	2.247	16.3	20.2
3 12	8 53.59	+25 18.6	2.923	3.709	10.6	17.7	3 12	8 46.62	+34 2.9	1.475	2.258	19.3	20.4
337038	1995 <i>UN</i> ₆₅		2 6.3 108°69	1°9/ 4.5	18		244131	2001 <i>VO</i> ₆₂		2 6.3 50°38	1°6/ 7.1	18	
1 2	9 40.39	+20 18.4	2.618	3.428	10.7	21.5	1 2	9 44.19	+11 13.5	1.292	2.114	18.8	20.0
1 12	9 35.35	+21 0.4	2.550	3.443	8.0	21.4	1 12	9 39.59	+11 13.3	1.230	2.126	14.4	19.8
1 22	9 28.64	+21 46.0	2.508	3.459	5.0	21.2	1 22	9 31.91	+11 29.4	1.189	2.138	9.3	19.5
2 1	9 20.79	+22 30.8	2.495	3.474	2.2	21.0	2 1	9 22.06	+11 58.0	1.171	2.151	3.9	19.3
2 11	9 12.58	+23 10.5	2.513	3.489	2.9	21.1	2 11	9 11.50	+12 33.0	1.180	2.163	2.8	19.2
2 21	9 4.77	+23 41.6	2.562	3.503	5.8	21.3	2 21	9 1.79	+13 8.0	1.214	2.177	8.0	19.6
3 2	8 58.11	+24 2.3	2.638	3.517	8.6	21.5	3 2	8 54.30	+13 37.4	1.273	2.190	12.9	19.9
3 12	8 53.14	+24 11.9	2.739	3.531	11.1	21.7	3 12	8 49.89	+13 57.5	1.353	2.204	17.1	20.2
278458	2007 <i>TA</i> ₁₁₁		2 6.3 184°38	3°4/ 9.1	18		322812	2001 <i>SW</i> ₄₃		2 6.3 74°92	4°4/ 3.6	18	
1 2	9 39.60	+3 29.3	2.572	3.330	12.3	20.6	1 2	9 46.67	+25 28.7	1.720	2.546	14.6	20.6
1 12	9 34.82	+3 20.7	2.479	3.330	9.8	20.4	1 12	9 40.84	+26 16.8	1.666	2.566	11.0	20.4
1 22	9 28.37	+3 25.1	2.410	3.330	7.1	20.2	1 22	9 32.38	+27 5.2	1.636	2.585	7.3	20.3
2 1	9 20.73	+3 42.0	2.368	3.329	4.4	20.1	2 1	9 22.15	+27 46.2	1.633	2.604	4.6	20.1
2 11	9 12.61	+4 9.2	2.356	3.328	3.4	20.0	2 11	9 11.46	+28 13.1	1.657	2.623	5.6	20.2
2 21	9 4.77	+4 43.6	2.374	3.327	5.3	20.1	2 21	9 1.62	+28 22.3	1.710	2.642	8.9	20.5
3 2	8 57.95	+5 21.5	2.420	3.326	8.2	20.3	3 2	8 53.77	+28 13.6	1.787	2.661	12.3	20.7
3 12	8 52.72	+5 59.1	2.493	3.324	10.9	20.5	3 12	8 48.62	+27 49.1	1.887	2.680	15.3	21.0
362608	2010 <i>XU</i> ₇₉		2 6.3 117°17	1°6/ 4.3	17		63431	2001 <i>ML</i> ₁₄		2 6.3 127°15	0°6/ 5.7	18	
1 2	9 35.90	+20 15.8	3.370	4.178	8.6	21.0	1 2	9 42.05	+13 39.0	2.149	2.950	13.0	19.7
1 12	9 31.73	+21 2.0	3.294	4.187	6.4	20.9	1 12	9 36.94	+14 41.9	2.077	2.965	9.8	19.5
1 22	9 26.28	+21 51.3	3.245	4.196	4.0	20.7	1 22	9 29.81	+15 55.8	2.030	2.980	6.0	19.3
2 1	9 19.96	+22 40.4	3.226	4.204	1.8	20.6	2 1	9 21.26	+17 15.2	2.012	2.994	2.1	19.0
2 11	9 13.32	+23 25.7	3.238	4.212	2.4	20.6	2 11	9 12.20	+18 33.6	2.025	3.007	2.3	19.1
2 21	9 6.93	+24 4.3	3.281	4.220	4.8	20.8	2 21	9 3.58	+19 44.8	2.068	3.020	6.2	19.4
3 2	9 1.34	+24 34.4	3.353	4.229	7.1	21.0	3 2	8 56.30	+20 44.5	2.140	3.032	9.7	19.6
3 12	8 56.99	+24 54.9	3.450	4.236	9.1	21.1	3 12	8 51.03	+21 30.4	2.236	3.044	12.7	19.8
4900	Maymelou		2 6.3 200°69	3°3/ 8.5	18		428929	2008 <i>WJ</i> ₁₀₄		2 6.3 50°45	2°0/ 4.9	18	
1 2	9 42.63	+5 2.5	1.902	2.680	15.3	17.8	1 2	9 42.74	+19 9.8	1.774	2.597	14.4	21.1
1 12	9 37.72	+5 6.8	1.811	2.677	12.2	17.6	1 12	9 37.67	+19 46.3	1.723	2.623	10.7	21.0
1 22	9 30.49	+5 28.2	1.743	2.674	8.5	17.3	1 22	9 30.28	+20 28.5	1.696	2.649	6.6	20.8
2 1	9 21.55	+6 5.6	1.701	2.670	4.8	17.1	2 1	9 21.40	+21 10.4	1.696	2.676	2.7	20.6
2 11	9 11.86	+6 55.2	1.687	2.666	3.5	17.0	2 11	9 12.13	+21 46.2	1.724	2.702	3.4	20.7
2 21	9 2.53	+7 51.5	1.703	2.661	6.6	17.2	2 21	9 3.64	+22 11.4	1.780	2.729	7.2	21.0
3 2	8 54.61	+8 48.8	1.746	2.656	10.5	17.4	3 2	8 56.87	+22 24.1	1.863	2.756	10.9	21.2
3 12	8 48.92	+9 41.6	1.813	2.650	14.0	17.6	3 12	8 52.48	+22 24.1	1.968	2.783	13.9	21.5
372010	2008 <i>JE</i> ₃₈		2 6.3 177°78	6°5/ 12.3	18		110734	2001 <i>TY</i> ₂₃₈		2 6.3 182°12	1°6/ 4.9	18	
1 2	9 39.84	-7 38.8	2.531	3.228	13.9	22.1	1 2	9 41.31	+16 25.4	2.017	2.830	13.3	20.0
1 12	9 35.06	-7 54.8	2.437	3.230	11.9	21.9	1 12	9 36.67	+17 28.2	1.935	2.830	10.0	19.7
1 22	9 28.55	-7 51.0	2.364	3.232	9.6	21.7	1 22	9 29.80	+18 41.2	1.879	2.831	6.2	19.5
2 1	9 20.81	-7 26.4	2.316	3.232	7.6	21.6	2 1	9 21.30	+19 58.5	1.850	2.831	2.3	19.3
2 11	9 12.54	-6 42.0	2.296	3.233	6.5	21.5	2 11	9 12.13	+21 12.9	1.851	2.830	3.1	19.3
2 21	9 4.54	-5 41.2	2.304	3.232	7.2	21.6	2 21	9 3.33	+22 18.1	1.881	2.829	7.0	19.5
3 2	8 57.57	-4 28.9	2.341	3.232	9.1	21.7	3 2	8 55.93	+23 9.6	1.939	2.828	10.7	19.8
3 12	8 52.24	-3 11.4	2.403	3.230	11.3	21.8	3 12	8 50.69	+23 45.6	2.021	2.827	14.0	20.0
138274	2000 <i>GY</i> ₁₉		2 6.3 303°28	1°3/ 5.5	18		457609	2009 <i>BC</i> ₆₆		2 6.3 338°40	0°0/ 6.1	18	
1 2	9 42.39	+17 14.4	1.660	2.484	15.2	20.3	1 2	9 39.52	+12 40.3	1.348	2.179	1	

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
432487	2010 EA ₄₂		2 6.3 303°15	1°0/ 5.6 16			476905	2008 WB ₃₃		2 6.3 195°66	18°4/24.1 16		
1 2	9 39.31	+16 30.4	2.043	2.859	13.0	21.5	1 2	10 2.60	+51 16.7	1.204	2.008	21.0	20.9
1 12	9 35.26	+17 1.0	1.943	2.840	9.9	21.3	1 12	9 56.69	+54 4.3	1.169	2.008	19.3	20.8
1 22	9 29.00	+17 40.5	1.867	2.820	6.2	21.0	1 22	9 44.36	+56 25.7	1.152	2.007	18.5	20.8
2 1	9 21.06	+18 24.7	1.819	2.800	2.2	20.7	2 1	9 26.85	+57 59.1	1.155	2.005	18.8	20.8
2 11	9 12.34	+19 8.3	1.799	2.780	2.6	20.7	2 11	9 7.41	+58 30.0	1.176	2.004	20.2	20.9
2 21	9 3.86	+19 46.3	1.808	2.761	6.7	20.9	2 21	8 50.03	+57 57.7	1.215	2.002	22.1	21.0
3 2	8 56.65	+20 14.6	1.843	2.742	10.7	21.1	3 2	8 37.81	+56 32.5	1.267	1.999	24.2	21.1
3 12	8 51.55	+20 31.2	1.902	2.723	14.1	21.3	3 12	8 31.95	+54 30.1	1.332	1.996	26.2	21.3
229591	2006 BX ₁₇₆		2 6.3 173°86	1°7/ 4.9 18			172	Baucis		2 6.3 158°57	1°7/ 5.4 18 R		
1 2	9 40.62	+17 47.9	2.160	2.974	12.5	20.4	1 2	9 48.50	+19 30.1	1.811	2.623	14.6	13.0
1 12	9 36.00	+18 40.9	2.080	2.975	9.4	20.2	1 12	9 42.22	+19 44.8	1.734	2.628	11.0	12.8
1 22	9 29.30	+19 41.6	2.024	2.976	5.8	20.0	1 22	9 33.33	+20 4.4	1.682	2.632	6.9	12.5
2 1	9 21.13	+20 44.9	1.996	2.977	2.3	19.7	2 1	9 22.58	+20 23.9	1.656	2.637	2.7	12.3
2 11	9 12.35	+21 44.4	1.999	2.977	3.0	19.8	2 11	9 11.19	+20 37.9	1.660	2.640	3.2	12.3
2 21	9 3.96	+22 35.1	2.031	2.977	6.7	20.0	2 21	9 0.43	+20 42.8	1.693	2.643	7.4	12.6
3 2	8 56.86	+23 13.3	2.090	2.978	10.1	20.2	3 2	8 51.49	+20 36.9	1.753	2.646	11.5	12.8
3 12	8 51.79	+23 37.8	2.173	2.977	13.2	20.4	3 12	8 45.17	+20 20.3	1.836	2.648	14.9	13.1
155989	2001 QF ₂₆₇		2 6.3 97°66	2°1/ 7.6 18			83962	2001 XW ₁₂₃		2 6.3 223°31	0°6/ 5.7 18 R		
1 2	9 46.30	+ 8 34.7	1.574	2.371	17.1	20.4	1 2	9 39.02	+15 57.1	2.594	3.397	11.0	20.2
1 12	9 40.60	+ 8 48.2	1.513	2.393	13.2	20.2	1 12	9 34.49	+16 28.3	2.503	3.392	8.3	20.0
1 22	9 32.27	+ 9 18.5	1.473	2.415	8.7	19.9	1 22	9 28.24	+17 6.5	2.437	3.387	5.1	19.8
2 1	9 22.15	+10 1.9	1.460	2.436	4.0	19.7	2 1	9 20.78	+17 48.1	2.401	3.382	1.8	19.6
2 11	9 11.50	+10 52.6	1.474	2.457	2.7	19.7	2 11	9 12.81	+18 29.0	2.395	3.376	2.0	19.6
2 21	9 1.63	+11 44.1	1.517	2.477	7.0	20.0	2 21	9 5.11	+19 5.5	2.419	3.371	5.4	19.8
3 2	8 53.67	+12 30.7	1.586	2.496	11.3	20.3	3 2	8 58.45	+19 34.7	2.471	3.365	8.5	20.0
3 12	8 48.39	+13 8.5	1.679	2.515	15.0	20.6	3 12	8 53.43	+19 54.7	2.549	3.359	11.3	20.2
284725	2008 UT ₇₇		2 6.3 141°02	3°5/ 3.9 18			499987	2011 OW ₂		2 6.3 247°74	2°8/ 8.7 17		
1 2	9 47.63	+22 16.3	1.805	2.623	14.4	21.8	1 2	9 38.69	+ 5 4.3	2.577	3.344	12.0	22.3
1 12	9 41.60	+23 14.1	1.738	2.635	10.8	21.6	1 12	9 34.26	+ 5 2.5	2.474	3.333	9.6	22.1
1 22	9 32.93	+24 16.3	1.696	2.646	6.9	21.4	1 22	9 28.12	+ 5 13.2	2.396	3.322	6.7	21.9
2 1	9 22.41	+25 15.2	1.681	2.656	3.7	21.2	2 1	9 20.75	+ 5 35.5	2.345	3.311	3.9	21.7
2 11	9 11.26	+26 3.3	1.695	2.666	4.8	21.3	2 11	9 12.84	+ 6 7.0	2.324	3.300	3.0	21.6
2 21	9 0.77	+26 35.4	1.738	2.675	8.4	21.5	2 21	9 5.14	+ 6 44.5	2.333	3.289	5.2	21.8
3 2	8 52.12	+26 49.7	1.808	2.683	12.1	21.8	3 2	8 58.40	+ 7 24.3	2.370	3.277	8.2	21.9
3 12	8 46.12	+26 47.1	1.899	2.691	15.3	22.0	3 12	8 53.24	+ 8 2.6	2.433	3.265	11.1	22.1
301822	2011 PB ₉		2 6.3 253°22	1°4/ 7.1 18			428268	2007 DR ₄₃		2 6.3 236°02	7°1/11.7 18		
1 2	9 44.29	+10 46.8	1.604	2.410	16.5	21.7	1 2	9 41.58	- 7 0.7	1.277	2.034	22.5	20.8
1 12	9 39.55	+10 55.7	1.510	2.397	12.8	21.4	1 12	9 38.13	- 6 8.8	1.186	2.027	18.9	20.6
1 22	9 31.97	+11 19.6	1.438	2.384	8.4	21.2	1 22	9 31.44	- 4 31.1	1.111	2.019	14.6	20.3
2 1	9 22.19	+11 55.9	1.392	2.370	3.5	20.8	2 1	9 22.15	- 2 5.4	1.059	2.011	9.9	20.0
2 11	9 11.36	+12 39.2	1.373	2.356	2.5	20.7	2 11	9 11.51	+ 1 1.4	1.032	2.003	7.1	19.8
2 21	9 0.86	+13 23.5	1.382	2.342	7.5	21.0	2 21	9 1.17	+ 4 33.2	1.033	1.994	9.4	19.9
3 2	8 52.07	+14 2.9	1.417	2.327	12.4	21.2	3 2	8 52.79	+ 8 8.7	1.061	1.985	14.3	20.1
3 12	8 46.01	+14 33.3	1.474	2.312	16.6	21.5	3 12	8 47.61	+11 28.4	1.113	1.975	19.2	20.4
301886	2008 UQ ₃₁₅		2 6.3 180°31	1°4/ 5.3 18			404223	2013 CY ₂₀₃		2 6.3 208°65	1°3/ 5.4 18		
1 2	9 46.29	+17 14.4	2.009	2.815	13.6	22.4	1 2	9 43.33	+15 24.6	1.770	2.585	14.8	21.9
1 12	9 40.41	+17 57.5	1.926	2.817	10.3	22.2	1 12	9 38.56	+16 21.3	1.686	2.581	11.2	21.7
1 22	9 32.14	+18 49.0	1.868	2.818	6.4	22.0	1 22	9 31.21	+17 30.5	1.624	2.576	7.0	21.4
2 1	9 22.15	+19 43.2	1.838	2.818	2.4	21.7	2 1	9 21.92	+18 46.3	1.590	2.571	2.5	21.1
2 11	9 11.46	+20 33.9	1.838	2.818	2.9	21.8	2 11	9 11.79	+20 0.5	1.585	2.566	3.1	21.2
2 21	9 1.21	+21 15.8	1.868	2.816	7.0	22.0	2 21	9 2.05	+21 6.0	1.609	2.560	7.6	21.4
3 2	8 52.49	+21 45.6	1.926	2.814	10.8	22.3	3 2	8 53.91	+21 57.4	1.659	2.554	11.9	21.7
3 12	8 46.09	+22 2.0	2.007	2.811	14.1	22.5	3 12	8 48.26	+22 32.5	1.732	2.547	15.6	21.9
35486	1998 FH ₁₅		2 6.3 144°98	3°8/ 3.7 18			285792	2000 WB ₁₅₀		2 6.3 177°59	3°8/ 3.5 18		
1 2	9 46.50	+26 10.1	2.166	2.980	12.4	18.4	1 2	9 44.06	+24 46.2	2.022	2.843	12.9	21.1
1 12	9 40.37	+26 43.3	2.094	2.987	9.4	18.2	1 12	9 38.79	+25 34.1	1.947	2.844	9.8	20.9
1 22	9 31.98	+27 16.0	2.046	2.992	6.3	18.0	1 22	9 31.16	+26 23.8	1.896	2.844	6.5	20.7
2 1	9 22.04	+27 42.4	2.027	2.998	3.9	17.9	2 1	9 21.85	+27 8.9	1.873	2.845	4.0	20.5
2 11	9 11.60	+27 57.3	2.038	3.003	4.8	17.9	2 11	9 11.90	+27 42.9	1.878	2.845	5.0	20.6
2 21	9 1.74	+27 57.9	2.078	3.008	7.7	18.1	2 21	9 2.47	+28 1.8	1.913	2.845	8.1	20.7
3 2	8 53.46	+27 43.6	2.145	3.013	10.8	18.3	3 2	8 54.60	+28 4.2	1.973	2.844	11.4	20.9
3 12	8 47.46	+27 16.1	2.235	3.017	13.6	18.5	3 12	8 49.08	+27 50.9	2.056	2.844	14.4	21.1
443881	2001 UX ₄₃		2 6.3 84°18	1°5/ 5.4 17			68523	2001 VR ₂₈		2 6.3 308°21	5°0/ 8.9 18		
1 2	9 47.49	+16 24.6	1.477	2.297	16.9	21.6	1 2	9 42.17	+ 4 26.5	1.426	2.223	18.6	19.2
1 12	9 41.65	+17 12.1	1.426	2.324	12.7	21.4	1 12	9 38.15	+ 3 55.5	1.341	2.215	15.0	18.9
1 22	9 32.97	+18 9.8	1.397	2.350	7.8	21.1	1 22	9 31.19	+ 3 44.4	1.274	2.206	10.8	18.6
2 1	9 22.40	+19 10.4	1.394	2.375	2.8	20.9	2 1	9 21.97	+ 3 54.0	1.232	2.198	6.7	18.4
2 11	9 11.34	+20 5.7	1.420	2.401	3.3	21.0	2 11	9 11.73	+ 4 21.9	1.214	2.190	5.2	18.3
2 21	9 1.23	+20 49.2	1.473	2.425	8.1	21.3	2 21	9 1.90	+ 5 2.9	1.223	2.182	8.4	18.4
3 2	8 53.28	+21 17.8	1.552	2.450	12.4	21.6	3 2	8 53.90	+ 5 50.1	1.256	2.175	12.9	18.6
3 12	8 48.22	+21 30.8	1.653	2.473	15.9	21.9	3 12	8 48.78	+ 6 36.5	1.311	2.168	17.2	18.9
198892	2005 TO ₁₀₄		2 6.3 61°03	1°1/ 5.8 18			141389	2002 AU ₈₅		2 6.3 77°21	3°0/ 8.4 18		
1 2	9 48.08	+17 45.6	1.308	2.138	18.2	20.2	1 2	9 40.84	+ 6 16.9	1.884	2.671	15.1	20.1
1 12	9 42.61	+17 49.5											

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
468111	2013 <i>YH</i> ₃		2 6.3 54° ⁰³	6° ¹ / 1.3 18			89475	2001 <i>XH</i> ₂₄		2 6.3 69° ⁴¹	1° ³ / 5.7 18		
1 2	9 42.67	+31 29.1	2.070	2.896	12.5	20.3	1 2	9 47.20	+17 17.1	1.379	2.206	17.5	18.5
1 12	9 37.76	+32 42.5	2.013	2.905	9.8	20.2	1 12	9 41.72	+17 37.3	1.322	2.223	13.2	18.3
1 22	9 30.49	+33 52.3	1.979	2.915	7.3	20.0	1 22	9 33.19	+18 6.7	1.286	2.240	8.2	18.1
2 1	9 21.60	+34 50.7	1.973	2.925	6.1	20.0	2 1	9 22.59	+18 39.1	1.276	2.257	2.9	17.8
2 11	9 12.15	+35 31.1	1.996	2.935	7.2	20.1	2 11	9 11.39	+19 7.5	1.292	2.274	3.2	17.9
2 21	9 3.30	+35 50.0	2.045	2.945	9.6	20.2	2 21	9 1.14	+19 26.5	1.336	2.291	8.3	18.2
3 2	8 56.10	+35 47.3	2.118	2.955	12.2	20.4	3 2	8 53.16	+19 33.4	1.404	2.309	12.9	18.5
3 12	8 51.25	+35 25.5	2.213	2.966	14.5	20.6	3 12	8 48.26	+19 27.9	1.494	2.326	16.8	18.8
464950	2005 <i>VE</i> ₇₂		2 6.3 140° ⁴⁵	4° ⁶ /10.2 18			60764	2000 <i>GV</i> ₁₂₂		2 6.3 248° ¹⁹	4° ³ / 9.6 18		
1 2	9 41.35	- 0 28.5	2.348	3.089	13.8	22.0	1 2	9 40.04	+ 1 12.2	2.071	2.832	14.8	18.5
1 12	9 36.26	- 0 37.7	2.265	3.100	11.3	21.8	1 12	9 35.74	+ 1 18.4	1.968	2.818	12.0	18.2
1 22	9 29.35	- 0 30.1	2.205	3.111	8.4	21.7	1 22	9 29.31	+ 1 44.0	1.887	2.805	8.8	18.0
2 1	9 21.18	- 0 5 9	2.171	3.121	5.8	21.5	2 1	9 21.26	+ 2 28.6	1.831	2.791	5.7	17.8
2 11	9 12.53	+ 0 32.9	2.167	3.130	4.7	21.5	2 11	9 12.44	+ 3 29.3	1.804	2.776	4.3	17.7
2 21	9 4.25	+ 1 22.2	2.191	3.139	6.1	21.6	2 21	9 3.83	+ 4 40.9	1.806	2.761	6.5	17.8
3 2	8 57.13	+ 2 17.2	2.244	3.148	8.8	21.7	3 2	8 56.40	+ 5 57.0	1.836	2.746	10.0	18.0
3 12	8 51.78	+ 3 12.9	2.323	3.156	11.5	21.9	3 12	8 50.96	+ 7 11.3	1.890	2.731	13.4	18.1
113755	2002 <i>TE</i> ₁₆₈		2 6.3 104° ³¹	6° ⁵ / 1.4 18			168030	2005 <i>JQ</i> ₁₀₀		2 6.3 260° ⁷²	1° ⁸ / 4.8 17		
1 2	9 47.09	+35 2.3	2.259	3.071	12.1	19.8	1 2	9 39.93	+19 6.7	2.265	3.080	12.0	20.0
1 12	9 40.91	+35 55.0	2.199	3.080	9.6	19.7	1 12	9 35.45	+19 47.7	2.181	3.077	9.0	19.8
1 22	9 32.36	+36 40.8	2.164	3.089	7.5	19.6	1 22	9 28.98	+20 34.7	2.122	3.074	5.6	19.6
2 1	9 22.24	+37 12.8	2.156	3.097	6.5	19.5	2 1	9 21.09	+21 22.9	2.092	3.072	2.3	19.4
2 11	9 11.64	+37 25.6	2.177	3.106	7.3	19.6	2 11	9 12.65	+22 7.1	2.091	3.069	3.0	19.4
2 21	9 1.73	+37 17.1	2.224	3.114	9.4	19.7	2 21	9 4.55	+22 42.8	2.120	3.066	6.4	19.7
3 2	8 53.53	+36 48.4	2.298	3.122	11.8	19.9	3 2	8 57.69	+23 7.2	2.176	3.064	9.8	19.9
3 12	8 47.73	+36 2.8	2.392	3.130	14.0	20.1	3 12	8 52.75	+23 19.2	2.256	3.061	12.7	20.0
256101	2006 <i>UT</i> ₂₅₅		2 6.3 112° ⁵⁹	2° ⁴ / 8.2 18			432156	2009 <i>BO</i> ₁₄₄		2 6.3 63° ⁰⁵	0° ² / 6.1 18		
1 2	9 44.26	+ 6 20.5	2.207	2.977	13.7	21.9	1 2	9 37.83	+12 5.9	2.177	2.981	12.8	20.6
1 12	9 38.41	+ 6 31.3	2.139	3.002	10.7	21.7	1 12	9 33.84	+13 10.7	2.101	2.990	9.6	20.4
1 22	9 30.65	+ 6 55.8	2.094	3.026	7.2	21.5	1 22	9 27.95	+14 27.9	2.051	3.000	6.0	20.2
2 1	9 21.61	+ 7 31.7	2.078	3.049	3.8	21.4	2 1	9 20.73	+15 52.7	2.028	3.009	2.1	20.0
2 11	9 12.19	+ 8 15.2	2.092	3.071	2.7	21.3	2 11	9 12.99	+17 18.4	2.036	3.019	2.0	20.0
2 21	9 3.29	+ 9 1.9	2.136	3.093	5.5	21.5	2 21	9 5.63	+18 38.7	2.074	3.029	5.9	20.3
3 2	8 55.74	+ 9 47.2	2.209	3.114	8.8	21.8	3 2	8 59.47	+19 48.6	2.141	3.039	9.4	20.5
3 12	8 50.15	+10 27.7	2.307	3.134	11.8	22.0	3 12	8 55.18	+20 45.1	2.231	3.049	12.4	20.7
283115	2008 <i>UD</i> ₃₅₄		2 6.3 323° ⁸⁶	0° ⁶ / 6.8 18			266297	2007 <i>BN</i> ₇₀		2 6.3 8° ¹⁷	8° ¹ /31.9 18		
1 2	9 39.45	+11 57.4	2.078	2.881	13.3	21.2	1 2	9 47.54	+35 52.9	1.819	2.641	14.1	19.9
1 12	9 35.17	+12 17.9	1.992	2.879	10.2	20.9	1 12	9 41.92	+36 59.4	1.757	2.642	11.4	19.7
1 22	9 28.84	+12 49.6	1.930	2.877	6.5	20.7	1 22	9 33.34	+37 58.2	1.717	2.642	9.1	19.6
2 1	9 21.04	+13 29.4	1.895	2.875	2.5	20.5	2 1	9 22.68	+38 39.8	1.704	2.643	8.1	19.5
2 11	9 12.64	+14 12.7	1.889	2.873	1.9	20.4	2 11	9 11.31	+38 56.8	1.717	2.643	9.1	19.6
2 21	9 4.60	+14 54.8	1.912	2.871	5.9	20.7	2 21	9 0.74	+38 46.3	1.755	2.645	11.5	19.7
3 2	8 57.84	+15 31.5	1.963	2.869	9.7	20.9	3 2	8 52.28	+38 10.0	1.818	2.646	14.3	19.9
3 12	8 53.07	+16 0.0	2.038	2.868	13.0	21.1	3 12	8 46.78	+37 12.6	1.900	2.647	16.8	20.1
79866	1998 <i>YY</i>		2 6.3 146° ⁴⁹	7° ⁴ /30.4 18			164308	2005 <i>AE</i> ₁₂		2 6.3 102° ⁶⁸	2° ⁸ / 4.6 18 R		
1 2	9 43.61	+30 27.3	1.823	2.654	13.8	18.4	1 2	9 48.00	+20 51.8	1.723	2.541	15.0	20.0
1 12	9 39.05	+32 42.1	1.761	2.656	10.8	18.2	1 12	9 41.84	+21 34.5	1.664	2.561	11.2	19.8
1 22	9 31.67	+34 57.2	1.724	2.658	8.3	18.1	1 22	9 33.06	+22 21.9	1.630	2.581	7.0	19.6
2 1	9 22.13	+37 0.4	1.715	2.660	7.5	18.0	2 1	9 22.52	+23 7.1	1.622	2.601	3.3	19.4
2 11	9 11.65	+38 40.7	1.734	2.662	9.0	18.1	2 11	9 11.49	+23 43.2	1.644	2.620	4.1	19.5
2 21	9 1.61	+39 51.3	1.780	2.664	11.7	18.3	2 21	9 1.26	+24 5.8	1.694	2.638	8.0	19.8
3 2	8 53.37	+40 30.8	1.850	2.666	14.6	18.5	3 2	8 52.97	+24 13.3	1.771	2.656	11.8	20.1
3 12	8 47.91	+40 42.0	1.938	2.667	17.1	18.7	3 12	8 47.35	+24 6.4	1.870	2.674	15.0	20.3
72756	2001 <i>FA</i> ₁₃₅		2 6.3 267° ⁹⁴	7° ¹ /11.6 18			312027	2007 <i>RL</i> ₁₀₃		2 6.3 165° ⁵³	0° ⁸ / 5.8 18		
1 2	9 39.26	- 5 30.5	2.196	2.919	15.1	18.9	1 2	9 45.82	+15 59.2	2.043	2.845	13.5	21.9
1 12	9 35.00	- 6 7.5	2.097	2.909	12.9	18.7	1 12	9 39.98	+16 30.6	1.963	2.851	10.2	21.7
1 22	9 28.76	- 6 25.0	2.018	2.899	10.4	18.5	1 22	9 31.86	+17 10.2	1.907	2.857	6.4	21.5
2 1	9 21.04	- 6 20.8	1.964	2.889	8.2	18.3	2 1	9 22.13	+17 53.6	1.880	2.861	2.2	21.2
2 11	9 12.63	- 5 55.1	1.936	2.879	7.1	18.3	2 11	9 11.78	+18 35.2	1.883	2.865	2.4	21.2
2 21	9 4.44	- 5 10.7	1.936	2.869	8.0	18.3	2 21	9 1.90	+19 10.2	1.916	2.868	6.5	21.5
3 2	8 57.37	- 4 12.7	1.962	2.859	10.2	18.4	3 2	8 53.52	+19 35.6	1.976	2.870	10.3	21.7
3 12	8 52.17	- 3 7.4	2.013	2.849	12.9	18.6	3 12	8 47.38	+19 49.8	2.061	2.871	13.6	21.9
480219	2015 <i>GO</i> ₃₁		2 6.3 33° ²⁰	18° ⁰ /21.5 18			458867	2011 <i>UO</i> ₁₂₇		2 6.3 112° ²⁵	2° ⁷ / 4.4 18		
1 2	9 37.56	-22 55.5	1.080	1.770	29.3	20.8	1 2	9 47.25	+20 18.2	1.872	2.685	14.1	21.5
1 12	9 35.44	-24 0.0	1.016	1.774	27.0	20.6	1 12	9 41.11	+21 16.9	1.813	2.708	10.6	21.3
1 22	9 29.86	-24 12.4	0.962	1.778	24.2	20.4	1 22	9 32.55	+22 20.8	1.779	2.730	6.6	21.1
2 1	9 21.58	-23 20.8	0.920	1.783	21.4	20.2	2 1	9 22.34	+23 23.0	1.774	2.751	3.1	21.0
2 11	9 12.13	-21 20.2	0.894	1.788	19.0	20.1	2 11	9 11.64	+24 16.2	1.798	2.772	4.0	21.1
2 21	9 3.31	-18 16.6	0.887	1.794	18.0	20.0	2 21	9 1.66	+24 55.5	1.851	2.792	7.7	21.3
3 2	8 56.85	-14 27.6	0.901	1.800	18.8	20.1	3 2	8 53.44	+25 18.7	1.931	2.811	11.2	21.6
3 12	8 53.94	-10 18.7	0.935	1.807	21.1	20.3	3 12	8 47.70	+25 26.2	2.034	2.829	14.3	21.8
331434	2012 <i>GJ</i> ₁₆		2 6.3 244° ⁴¹	1° ⁶ / 5.2 17			236959	20					

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
147133	2002 <i>TO</i> ₂₀₃		2 6.3 159°30	1°1/ 5.5 18			325305	2008 <i>HU</i> ₅₁		2 6.3 29°90	5°0/ 9.5 18		
1 2	9 46.22	+15 9.8	1.767	2.575	15.1	21.0	1 2	9 39.75	+ 2 34.8	1.548	2.336	17.8	20.5
1 12	9 40.63	+16 4.8	1.691	2.583	11.4	20.8	1 12	9 35.91	+ 2 18.6	1.476	2.343	14.3	20.3
1 22	9 32.44	+17 11.7	1.639	2.590	7.1	20.6	1 22	9 29.54	+ 2 23.9	1.424	2.350	10.4	20.1
2 1	9 22.37	+18 24.1	1.615	2.596	2.5	20.3	2 1	9 21.37	+ 2 50.6	1.395	2.358	6.6	19.9
2 11	9 11.57	+19 34.2	1.620	2.602	2.9	20.3	2 11	9 12.51	+ 3 35.0	1.393	2.367	5.0	19.8
2 21	9 1.30	+20 35.1	1.655	2.606	7.5	20.6	2 21	9 4.20	+ 4 31.2	1.417	2.376	7.6	20.0
3 2	8 52.74	+21 22.1	1.716	2.610	11.6	20.9	3 2	8 57.59	+ 5 32.0	1.467	2.385	11.4	20.2
3 12	8 46.74	+21 53.5	1.801	2.612	15.2	21.1	3 12	8 53.47	+ 6 30.2	1.539	2.395	15.1	20.5
41946	2000 <i>XF</i> ₆		2 6.3 344°58	0°9/ 5.9 18			239212	2006 <i>QH</i> ₃₄		2 6.3 282°85	1°3/ 7.4 17		
1 2	9 42.08	+17 57.3	1.483	2.315	16.3	18.2	1 2	9 38.68	+ 9 34.8	2.277	3.069	12.7	21.4
1 12	9 38.01	+17 53.3	1.401	2.305	12.4	17.9	1 12	9 34.59	+ 9 55.3	2.170	3.048	9.8	21.1
1 22	9 31.05	+17 56.3	1.342	2.296	7.8	17.6	1 22	9 28.54	+10 28.6	2.086	3.028	6.5	20.9
2 1	9 21.93	+18 2.1	1.307	2.288	2.8	17.3	2 1	9 21.01	+11 12.2	2.031	3.008	2.9	20.6
2 11	9 11.94	+18 5.5	1.298	2.281	2.9	17.3	2 11	9 12.77	+12 2.3	2.004	2.987	2.0	20.5
2 21	9 2.52	+18 2.5	1.316	2.275	8.0	17.5	2 21	9 4.71	+12 54.1	2.008	2.967	5.6	20.7
3 2	8 55.01	+17 50.6	1.359	2.270	12.8	17.8	3 2	8 57.71	+13 43.0	2.039	2.946	9.3	20.9
3 12	8 50.35	+17 29.2	1.423	2.266	16.9	18.0	3 12	8 52.52	+14 25.4	2.095	2.926	12.7	21.1
34356	2000 <i>RR</i> ₂₀		2 6.3 234°14	3°5/ 8.8 18			179153	2001 <i>TO</i> ₂₃		2 6.3 178°11	2°2/ 4.8 18		
1 2	9 41.45	+ 4 42.1	2.134	2.905	14.1	19.7	1 2	9 43.83	+19 49.6	1.974	2.790	13.4	20.9
1 12	9 36.68	+ 4 32.8	2.036	2.897	11.3	19.4	1 12	9 38.64	+20 27.0	1.895	2.791	10.1	20.7
1 22	9 29.83	+ 4 38.3	1.961	2.888	8.0	19.2	1 22	9 31.10	+21 10.1	1.840	2.792	6.3	20.4
2 1	9 21.44	+ 4 58.0	1.913	2.879	4.7	19.0	2 1	9 21.90	+21 53.5	1.813	2.792	2.7	20.2
2 11	9 12.37	+ 5 29.3	1.894	2.870	3.6	18.9	2 11	9 12.05	+22 31.2	1.815	2.792	3.5	20.3
2 21	9 3.56	+ 6 8.3	1.904	2.860	6.2	19.1	2 21	9 2.67	+22 58.6	1.846	2.792	7.3	20.5
3 2	8 55.97	+ 6 50.5	1.941	2.850	9.6	19.2	3 2	8 54.82	+23 13.0	1.903	2.791	11.0	20.7
3 12	8 50.34	+ 7 31.3	2.004	2.840	12.9	19.4	3 12	8 49.27	+23 14.2	1.984	2.791	14.2	20.9
134262	2006 <i>BX</i> ₂₃		2 6.3 303°02	0°1/ 6.4 18			326103	2011 <i>BF</i> ₁₅₁		2 6.3 190°24	1°7/ 5.1 18		
1 2	9 42.45	+14 50.2	1.922	2.732	14.0	20.0	1 2	9 43.35	+19 10.7	2.159	2.970	12.6	22.0
1 12	9 37.64	+14 53.4	1.833	2.725	10.7	19.8	1 12	9 38.09	+19 42.5	2.076	2.970	9.5	21.8
1 22	9 30.51	+15 5.0	1.768	2.718	6.8	19.5	1 22	9 30.68	+20 19.9	2.017	2.969	5.9	21.6
2 1	9 21.69	+15 22.0	1.730	2.711	2.4	19.2	2 1	9 21.74	+20 58.1	1.987	2.967	2.4	21.3
2 11	9 12.16	+15 40.1	1.721	2.704	2.1	19.2	2 11	9 12.19	+21 31.9	1.987	2.965	3.0	21.4
2 21	9 3.05	+15 55.4	1.740	2.698	6.5	19.5	2 21	9 3.05	+21 57.1	2.016	2.963	6.6	21.6
3 2	8 55.39	+16 4.9	1.787	2.692	10.6	19.7	3 2	8 55.30	+22 11.4	2.073	2.961	10.2	21.8
3 12	8 50.00	+16 6.7	1.856	2.686	14.1	19.9	3 12	8 49.64	+22 14.0	2.153	2.958	13.2	22.0
229621	2006 <i>DQ</i> ₉₆		2 6.3 61°24	0°7/ 6.9 18			218744	2005 <i>UX</i> ₄₈₀		2 6.3 138°90	2°3/ 4.3 18		
1 2	9 40.21	+11 43.8	1.986	2.789	13.8	20.5	1 2	9 41.82	+18 14.8	2.103	2.916	12.8	20.5
1 12	9 35.79	+12 4.4	1.907	2.794	10.6	20.3	1 12	9 36.99	+19 32.9	2.029	2.925	9.6	20.3
1 22	9 29.25	+12 36.6	1.852	2.799	6.8	20.1	1 22	9 30.02	+20 59.4	1.981	2.933	5.9	20.1
2 1	9 21.21	+13 17.3	1.824	2.803	2.6	19.8	2 1	9 21.51	+22 27.6	1.962	2.941	2.7	19.9
2 11	9 12.61	+14 1.4	1.824	2.808	1.9	19.8	2 11	9 12.39	+23 49.8	1.974	2.949	3.6	20.0
2 21	9 4.44	+14 44.2	1.854	2.813	6.0	20.1	2 21	9 3.68	+24 59.9	2.015	2.956	7.2	20.2
3 2	8 57.64	+15 21.4	1.911	2.818	9.9	20.3	3 2	8 56.35	+25 54.0	2.084	2.962	10.6	20.4
3 12	8 52.93	+15 49.9	1.991	2.823	13.2	20.5	3 12	8 51.11	+26 31.0	2.176	2.969	13.5	20.6
118679	2000 <i>LE</i> ₃₅		2 6.3 188°98	4°6/ 2.2 18			68367	2001 <i>ON</i> ₈₈		2 6.3 58°17	1°1/ 7.2 18		
1 2	9 43.87	+26 28.2	2.255	3.073	11.9	20.4	1 2	9 39.64	+10 27.9	2.036	2.835	13.7	19.2
1 12	9 38.59	+27 48.7	2.178	3.072	9.1	20.2	1 12	9 35.20	+10 49.1	1.968	2.852	10.5	19.0
1 22	9 31.05	+29 11.1	2.127	3.071	6.3	20.1	1 22	9 28.78	+11 22.5	1.924	2.869	6.7	18.8
2 1	9 21.87	+30 27.8	2.105	3.069	4.6	20.0	2 1	9 21.03	+12 4.7	1.908	2.886	2.8	18.6
2 11	9 12.00	+31 31.8	2.113	3.067	5.7	20.0	2 11	9 12.84	+12 51.1	1.920	2.903	1.9	18.6
2 21	9 2.50	+32 18.1	2.150	3.064	8.4	20.2	2 21	9 5.15	+13 36.6	1.961	2.921	5.7	18.8
3 2	8 54.39	+32 44.6	2.213	3.060	11.3	20.4	3 2	8 58.81	+14 17.2	2.030	2.938	9.3	19.1
3 12	8 48.45	+32 52.3	2.298	3.056	13.9	20.5	3 12	8 54.46	+14 49.9	2.123	2.956	12.4	19.3
278667	2008 <i>RM</i> ₈₆		2 6.3 220°99	0°9/ 7.0 17			229558	2005 <i>YV</i> ₂₃₀		2 6.3 116°77	0°6/ 6.7 18		
1 2	9 42.26	+11 52.5	2.456	3.245	12.0	22.6	1 2	9 42.37	+12 51.5	2.073	2.874	13.4	20.8
1 12	9 37.03	+11 59.0	2.358	3.236	9.2	22.4	1 12	9 37.30	+13 2.3	1.995	2.880	10.2	20.6
1 22	9 29.92	+12 14.3	2.284	3.227	6.0	22.2	1 22	9 30.14	+13 22.8	1.941	2.887	6.5	20.3
2 1	9 21.45	+12 36.2	2.239	3.218	2.4	22.0	2 1	9 21.53	+13 49.9	1.914	2.894	2.5	20.1
2 11	9 12.39	+13 1.5	2.224	3.208	1.8	21.9	2 11	9 12.39	+14 19.5	1.917	2.900	1.9	20.1
2 21	9 3.60	+13 26.7	2.240	3.197	5.3	22.1	2 21	9 3.71	+14 47.3	1.949	2.907	5.9	20.3
3 2	8 55.91	+13 48.8	2.285	3.186	8.8	22.3	3 2	8 56.41	+15 10.2	2.009	2.913	9.6	20.6
3 12	8 49.99	+14 5.5	2.355	3.175	11.8	22.5	3 12	8 51.18	+15 25.8	2.093	2.919	12.8	20.8
1112	Polonia		2 6.3 94°56	1°1/ 7.1 18			184906	2005 <i>UZ</i> ₃₂₇		2 6.3 168°34	1°3/ 5.4 18		
1 2	9 42.22	+11 55.0	2.255	3.048	12.7	15.0	1 2	9 43.01	+17 14.6	2.202	3.009	12.5	21.6
1 12	9 36.97	+11 52.1	2.178	3.059	9.7	14.8	1 12	9 37.76	+17 53.0	2.121	3.012	9.4	21.4
1 22	9 29.82	+11 58.0	2.126	3.069	6.3	14.6	1 22	9 30.44	+18 38.5	2.065	3.015	5.9	21.1
2 1	9 21.38	+12 10.6	2.101	3.079	2.6	14.4	2 1	9 21.65	+19 26.6	2.037	3.018	2.2	20.9
2 11	9 12.49	+12 26.6	2.106	3.090	1.9	14.3	2 11	9 12.28	+20 11.8	2.040	3.020	2.6	20.9
2 21	9 4.06	+12 43.0	2.142	3.100	5.4	14.6	2 21	9 3.33	+20 49.7	2.073	3.022	6.3	21.2
3 2	8 56.91	+12 56.8	2.205	3.110	8.9	14.8	3 2	8 55.70	+21 17.1	2.133	3.023	9.8	21.4
3 12	8 51.65	+13 6.0	2.293	3.120	11.8	15.0	3 12	8 50.10	+21 32.9	2.218	3.024	12.9	21.6
52457	Enquist		2 6.3 77°41	2°4/ 4.7 18			37810	1997 <i>YP</i> ₁₇		2 6.3 180°41	0°0/ 6.2 18		
1 2	9 44.86	+18 42.6	1.680	2.502	15.1	18.5	1 2	9 45.60	+14 23.5	1.853	2.657	1	

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
376770	2000 <i>CJ</i> ₇₄		2 6.3 70°36	0°0/ 6.1 18			437586	2014 <i>AZ</i> ₄₆		2 6.3 183°35	1°0/ 7.2 17		
1 2	9 38.45	+11 52.2	2.120	2.924	13.1	21.4	1 2	9 42.23	+11 51.9	2.882	3.662	10.6	21.2
1 12	9 34.44	+12 46.6	2.036	2.924	9.9	21.2	1 12	9 36.67	+11 45.5	2.789	3.662	8.1	21.0
1 22	9 28.41	+13 54.0	1.976	2.924	6.3	21.0	1 22	9 29.54	+11 45.9	2.722	3.662	5.3	20.8
2 1	9 20.95	+15 10.1	1.944	2.925	2.2	20.7	2 1	9 21.31	+11 51.3	2.684	3.661	2.3	20.6
2 11	9 12.88	+16 28.5	1.941	2.925	2.0	20.7	2 11	9 12.67	+11 59.6	2.677	3.660	1.6	20.6
2 21	9 5.14	+17 43.0	1.969	2.925	6.0	21.0	2 21	9 4.31	+12 8.5	2.703	3.659	4.6	20.8
3 2	8 58.63	+18 48.4	2.024	2.925	9.7	21.2	3 2	8 56.94	+12 15.9	2.757	3.657	7.5	21.0
3 12	8 54.04	+19 41.3	2.104	2.926	12.9	21.4	3 12	8 51.08	+12 20.1	2.839	3.655	10.1	21.1
498194	2007 <i>TH</i> ₃₂₇		2 6.3 191°00	2°2/ 8.1 17			131485	2001 <i>SO</i> ₆₈		2 6.3 124°77	5°1/12.0 18		
1 2	9 39.85	+ 7 36.1	2.431	3.209	12.3	21.7	1 2	9 37.89	- 5 42.3	2.876	3.581	12.3	20.5
1 12	9 35.17	+ 7 34.2	2.341	3.209	9.7	21.5	1 12	9 33.39	- 5 43.3	2.792	3.595	10.3	20.4
1 22	9 28.73	+ 7 43.6	2.274	3.208	6.6	21.3	1 22	9 27.47	- 5 27.2	2.731	3.609	8.1	20.2
2 1	9 21.03	+ 8 3.0	2.235	3.207	3.4	21.1	2 1	9 20.57	- 4 54.2	2.696	3.622	6.1	20.1
2 11	9 12.83	+ 8 29.6	2.226	3.207	2.5	21.0	2 11	9 13.32	- 4 5.9	2.689	3.636	5.1	20.1
2 21	9 4.94	+ 9 0.1	2.247	3.205	5.2	21.2	2 21	9 6.36	- 3 5.9	2.712	3.648	5.8	20.1
3 2	8 58.13	+ 9 30.9	2.297	3.204	8.4	21.4	3 2	9 0.29	- 1 58.4	2.765	3.661	7.6	20.3
3 12	8 53.02	+ 9 58.9	2.372	3.203	11.3	21.6	3 12	8 55.63	- 0 48.4	2.843	3.673	9.7	20.4
83806	2001 <i>TX</i> ₂₂₅		2 6.3 5°28	10°7/25.7 18			498107	2007 <i>RP</i> ₃₀₈		2 6.3 144°91	1°4/ 5.1 17		
1 2	9 44.78	+45 4.4	2.089	2.893	13.2	18.7	1 2	9 41.73	+19 12.1	2.603	3.408	10.9	21.9
1 12	9 40.16	+47 11.6	2.042	2.894	11.6	18.6	1 12	9 36.47	+19 41.0	2.526	3.416	8.1	21.7
1 22	9 32.47	+49 5.9	2.020	2.894	10.7	18.5	1 22	9 29.47	+20 14.0	2.474	3.424	5.1	21.6
2 1	9 22.48	+50 36.4	2.023	2.895	10.9	18.5	2 1	9 21.30	+20 47.3	2.451	3.431	2.0	21.4
2 11	9 11.53	+51 35.5	2.050	2.896	12.0	18.6	2 11	9 12.70	+21 16.9	2.459	3.438	2.5	21.4
2 21	9 1.16	+52 0.2	2.100	2.897	13.6	18.7	2 21	9 4.48	+21 39.5	2.498	3.444	5.6	21.6
3 2	8 52.83	+51 52.5	2.170	2.899	15.4	18.8	3 2	8 57.40	+21 53.3	2.565	3.450	8.6	21.8
3 12	8 47.52	+51 17.4	2.257	2.901	17.0	19.0	3 12	8 52.04	+21 57.4	2.656	3.456	11.2	22.0
118054	4123 <i>T</i> -2		2 6.3 147°52	2°3/ 8.0 18			402087	2003 <i>UN</i> ₂₄₁		2 6.3 53°20	0°7/ 6.7 18		
1 2	9 42.59	+ 6 35.1	1.899	2.683	15.1	20.7	1 2	9 42.94	+11 52.8	1.396	2.217	17.7	21.0
1 12	9 37.66	+ 7 0.6	1.819	2.690	11.8	20.5	1 12	9 38.49	+12 15.9	1.338	2.233	13.5	20.8
1 22	9 30.48	+ 7 43.1	1.761	2.698	8.0	20.2	1 22	9 31.21	+12 54.7	1.300	2.250	8.6	20.5
2 1	9 21.69	+ 8 39.8	1.731	2.705	3.9	20.0	2 1	9 21.98	+13 44.1	1.287	2.267	3.2	20.2
2 11	9 12.27	+ 9 45.6	1.729	2.711	2.6	19.9	2 11	9 12.13	+14 36.8	1.301	2.285	2.4	20.2
2 21	9 3.29	+10 53.9	1.757	2.717	6.3	20.2	2 21	9 3.08	+15 25.8	1.341	2.302	7.6	20.6
3 2	8 55.76	+11 58.9	1.813	2.722	10.2	20.4	3 2	8 56.07	+16 5.6	1.407	2.320	12.2	20.9
3 12	8 50.45	+12 55.7	1.892	2.727	13.7	20.6	3 12	8 51.88	+16 33.0	1.494	2.338	16.1	21.2
310263	2011 <i>UQ</i> ₃₅		2 6.3 185°99	2°1/ 7.9 18			490701	2010 <i>PH</i> ₂₄		2 6.3 185°72	0°3/ 6.6 18		
1 2	9 44.17	+ 7 20.6	2.132	2.909	13.9	22.5	1 2	9 43.99	+12 39.5	2.098	2.894	13.5	22.5
1 12	9 38.70	+ 7 37.5	2.041	2.909	10.9	22.3	1 12	9 38.62	+13 7.2	2.010	2.894	10.3	22.3
1 22	9 31.09	+ 8 8.9	1.973	2.909	7.3	22.0	1 22	9 31.06	+13 45.8	1.947	2.893	6.5	22.1
2 1	9 21.91	+ 8 52.4	1.933	2.907	3.6	21.8	2 1	9 21.92	+14 31.7	1.912	2.892	2.4	21.8
2 11	9 12.07	+ 9 43.9	1.923	2.905	2.5	21.7	2 11	9 12.12	+15 19.8	1.907	2.890	1.9	21.7
2 21	9 2.57	+10 38.3	1.944	2.902	5.9	21.9	2 21	9 2.70	+16 5.0	1.932	2.888	6.1	22.0
3 2	8 54.36	+11 30.6	1.993	2.898	9.6	22.1	3 2	8 54.63	+16 43.4	1.985	2.885	10.0	22.2
3 12	8 48.21	+12 16.8	2.067	2.893	13.0	22.3	3 12	8 48.67	+17 12.2	2.062	2.881	13.3	22.4
460135	2014 <i>PF</i> ₄₉		2 6.3 27°85	1°7/ 5.1 18			419102	2009 <i>SK</i> ₁₆₅		2 6.3 121°07	1°3/ 7.2 18		
1 2	9 36.68	+12 24.4	1.168	2.011	19.0	19.3	1 2	9 42.58	+10 59.7	1.988	2.785	14.1	22.1
1 12	9 34.26	+14 10.5	1.117	2.027	14.2	19.1	1 12	9 37.56	+11 5.6	1.909	2.791	10.8	21.9
1 22	9 28.79	+16 18.2	1.087	2.045	8.7	18.8	1 22	9 30.37	+11 23.0	1.853	2.797	7.0	21.7
2 1	9 21.15	+18 36.1	1.081	2.063	3.0	18.5	2 1	9 21.66	+11 49.1	1.825	2.803	3.0	21.4
2 11	9 12.79	+20 49.1	1.102	2.083	4.0	18.7	2 11	9 12.38	+12 19.9	1.825	2.808	2.1	21.4
2 21	9 5.23	+22 44.0	1.148	2.104	9.4	19.0	2 21	9 3.55	+12 51.0	1.855	2.814	6.0	21.7
3 2	8 59.85	+24 12.7	1.218	2.126	14.2	19.4	3 2	8 56.16	+13 18.6	1.912	2.819	9.9	21.9
3 12	8 57.49	+25 12.8	1.308	2.149	18.2	19.7	3 12	8 50.90	+13 39.9	1.993	2.824	13.2	22.1
30497	2000 <i>QH</i> ₉₇		2 6.3 262°43	1°7/ 8.0 18			473655	2015 <i>XF</i> ₃₃₇		2 6.3 111°99	0°3/ 6.5 18		
1 2	9 37.06	+ 6 52.1	2.459	3.240	12.2	17.8	1 2	9 46.16	+12 42.0	1.721	2.525	15.6	22.2
1 12	9 33.15	+ 7 27.2	2.362	3.232	9.5	17.6	1 12	9 40.46	+13 9.5	1.656	2.543	11.9	22.0
1 22	9 27.52	+ 8 16.3	2.289	3.225	6.4	17.4	1 22	9 32.24	+13 49.4	1.613	2.561	7.5	21.8
2 1	9 20.64	+ 9 17.3	2.243	3.218	3.1	17.2	2 1	9 22.32	+14 36.9	1.598	2.578	2.7	21.6
2 11	9 13.21	+10 25.7	2.228	3.210	2.0	17.1	2 11	9 11.83	+15 25.7	1.611	2.595	2.2	21.6
2 21	9 6.00	+11 36.7	2.243	3.203	5.1	17.3	2 21	9 2.03	+16 10.2	1.653	2.611	6.8	21.9
3 2	8 59.78	+12 45.1	2.287	3.195	8.4	17.5	3 2	8 54.01	+16 46.1	1.723	2.626	11.0	22.2
3 12	8 55.19	+13 46.9	2.357	3.187	11.4	17.7	3 12	8 48.51	+17 11.0	1.816	2.641	14.5	22.4
118693	2000 <i>OL</i> ₃₁		2 6.3 137°02	1°6/ 7.8 18			375351	2008 <i>SL</i> ₅₈		2 6.3 138°53	0°6/ 5.9 18		
1 2	9 40.28	+ 6 51.5	2.160	2.941	13.6	20.3	1 2	9 41.04	+15 23.5	2.321	3.124	12.1	21.7
1 12	9 35.69	+ 7 40.2	2.078	2.950	10.5	20.1	1 12	9 36.15	+15 56.4	2.242	3.131	9.1	21.5
1 22	9 29.15	+ 8 45.0	2.021	2.959	7.0	19.9	1 22	9 29.37	+16 37.1	2.188	3.138	5.7	21.3
2 1	9 21.21	+10 2.4	1.992	2.967	3.2	19.7	2 1	9 21.28	+17 21.6	2.163	3.144	2.0	21.1
2 11	9 12.73	+11 26.7	1.992	2.975	2.1	19.6	2 11	9 12.70	+18 5.4	2.168	3.151	2.1	21.1
2 21	9 4.62	+12 51.3	2.024	2.983	5.6	19.9	2 21	9 4.51	+18 44.1	2.203	3.157	5.7	21.4
3 2	8 57.74	+14 10.3	2.084	2.990	9.2	20.1	3 2	8 57.55	+19 14.7	2.267	3.162	9.1	21.6
3 12	8 52.77	+15 19.2	2.169	2.997	12.4	20.3	3 12	8 52.43	+19 35.3	2.354	3.167	12.0	21.8
464156	2014 <i>YK</i> ₃₆		2 6.3 232°64	2°4/ 4.6 17			336287	2008 <i>SK</i> ₂₇₂		2 6.3 301°21	6°2/11.1 17		
1 2	9 42.67	+20 34.6	2.011	2.830	13.1	21.3	1 2	9 38.66	- 3				

EPHEMERIDES

2 6.3

2 6.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
142382	2002 SS ₅		2 6.3 69°63	2.7/ 8.3	18		298377	2003 SZ ₄₉		2 6.4 46°45	1.2/ 6.9	18	
1 2	9 44.40	+ 5 46.3	1.630	2.418	17.0	20.1	1 2	9 48.24	+13 30.6	1.229	2.053	19.4	18.9
1 12	9 39.02	+ 6 8.9	1.578	2.451	13.2	19.9	1 12	9 42.56	+13 9.9	1.182	2.079	14.7	18.7
1 22	9 31.25	+ 6 50.4	1.548	2.484	8.9	19.7	1 22	9 33.72	+13 2.0	1.155	2.105	9.4	18.5
2 1	9 21.92	+ 7 47.0	1.544	2.517	4.5	19.5	2 1	9 22.84	+13 3.3	1.152	2.132	3.7	18.2
2 11	9 12.22	+ 8 52.7	1.569	2.550	3.0	19.5	2 11	9 11.53	+13 9.0	1.176	2.160	2.7	18.2
2 21	9 3.31	+10 0.1	1.621	2.582	6.6	19.8	2 21	9 1.41	+13 14.4	1.225	2.187	8.0	18.6
3 2	8 56.20	+11 3.1	1.701	2.613	10.5	20.1	3 2	8 53.77	+13 16.2	1.300	2.216	12.8	19.0
3 12	8 51.56	+11 56.9	1.805	2.645	14.0	20.4	3 12	8 49.33	+13 12.1	1.395	2.244	16.8	19.3
2291	Kevo		2 6.3 27°67	6.1/12.6	18 R		39151	2000 WA ₉₉		2 6.4 193°00	4.1/ 2.8	18	
1 2	9 36.55	- 7 6.8	2.142	2.862	15.5	15.6	1 2	9 43.16	+25 44.3	2.248	3.066	11.9	19.4
1 12	9 32.95	- 6 42.2	2.052	2.865	13.1	15.4	1 12	9 38.03	+26 48.3	2.170	3.065	9.1	19.2
1 22	9 27.47	- 5 52.0	1.983	2.868	10.3	15.2	1 22	9 30.71	+27 54.1	2.117	3.063	6.1	19.0
2 1	9 20.64	- 4 36.3	1.938	2.871	7.7	15.1	2 1	9 21.82	+28 54.9	2.094	3.061	4.2	18.9
2 11	9 13.25	- 2 58.3	1.920	2.874	6.1	15.0	2 11	9 12.29	+29 44.4	2.099	3.059	5.2	19.0
2 21	9 6.18	- 1 4.5	1.932	2.878	7.0	15.0	2 21	9 3.16	+30 18.2	2.134	3.056	8.0	19.1
3 2	9 0.27	+ 0 56.9	1.972	2.882	9.5	15.2	3 2	8 55.41	+30 34.4	2.195	3.053	11.0	19.3
3 12	8 56.17	+ 2 57.3	2.039	2.886	12.3	15.4	3 12	8 49.78	+30 33.8	2.279	3.050	13.6	19.5
259934	2004 EQ ₄₄		2 6.3 249°88	1.4/ 5.4	18		348592	2005 WQ ₁₅₀		2 6.4 130°66	2.3/ 4.9	18	
1 2	9 42.96	+17 7.5	1.948	2.761	13.7	21.4	1 2	9 48.73	+19 19.8	1.774	2.586	14.9	21.4
1 12	9 38.16	+17 44.3	1.854	2.749	10.4	21.2	1 12	9 42.43	+20 3.9	1.708	2.602	11.1	21.2
1 22	9 30.96	+18 30.1	1.785	2.736	6.5	20.9	1 22	9 33.52	+20 54.4	1.667	2.618	7.0	21.0
2 1	9 21.94	+19 19.9	1.743	2.724	2.4	20.6	2 1	9 22.80	+21 44.7	1.653	2.633	2.9	20.8
2 11	9 12.10	+20 7.5	1.730	2.711	2.9	20.7	2 11	9 11.50	+22 27.8	1.669	2.646	3.7	20.9
2 21	9 2.57	+20 47.5	1.746	2.697	7.1	20.9	2 21	9 0.91	+22 58.7	1.714	2.660	7.7	21.1
3 2	8 54.48	+21 16.0	1.789	2.683	11.2	21.1	3 2	8 52.18	+23 15.0	1.785	2.672	11.6	21.4
3 12	8 48.68	+21 31.3	1.855	2.669	14.7	21.3	3 12	8 46.10	+23 16.9	1.879	2.683	14.9	21.6
335884	2007 RO ₁₆₅		2 6.4 174°27	1.7/ 7.8	17		325572	2009 SO ₁₃₀		2 6.4 208°67	0.9/ 7.1	16	
1 2	9 39.56	+ 8 16.0	2.524	3.304	11.9	21.5	1 2	9 41.65	+10 37.7	2.416	3.202	12.2	22.8
1 12	9 34.91	+ 8 30.2	2.435	3.305	9.3	21.3	1 12	9 36.65	+11 4.1	2.319	3.196	9.4	22.6
1 22	9 28.55	+ 8 55.8	2.370	3.307	6.2	21.2	1 22	9 29.76	+11 41.7	2.247	3.189	6.1	22.4
2 1	9 21.00	+ 9 30.7	2.333	3.308	3.0	20.9	2 1	9 21.49	+12 27.6	2.203	3.181	2.5	22.1
2 11	9 12.97	+10 11.6	2.327	3.309	2.0	20.9	2 11	9 12.61	+13 17.7	2.189	3.173	1.7	22.0
2 21	9 5.23	+10 54.7	2.351	3.309	5.0	21.1	2 21	9 3.98	+14 7.5	2.207	3.164	5.4	22.3
3 2	8 58.53	+11 36.2	2.403	3.309	8.2	21.3	3 2	8 56.44	+14 53.0	2.253	3.155	8.9	22.5
3 12	8 53.47	+12 12.8	2.482	3.309	11.0	21.5	3 12	8 50.68	+15 31.0	2.325	3.144	11.9	22.6
378922	2008 UD ₁₀₆		2 6.4 110°73	2.5/ 8.3	18		184931	2005 VZ ₄		2 6.4 183°32	0.2/ 6.2	18	
1 2	9 40.21	+ 6 39.1	2.173	2.953	13.6	21.7	1 2	9 42.08	+14 0.3	2.178	2.980	12.8	20.8
1 12	9 35.60	+ 6 45.4	2.092	2.961	10.6	21.5	1 12	9 37.12	+14 32.1	2.093	2.980	9.7	20.6
1 22	9 29.07	+ 7 5.6	2.034	2.968	7.3	21.3	1 22	9 30.11	+15 13.7	2.032	2.980	6.1	20.4
2 1	9 21.19	+ 7 37.8	2.003	2.975	3.8	21.1	2 1	9 21.62	+16 1.1	1.999	2.980	2.1	20.1
2 11	9 12.81	+ 8 18.4	2.002	2.982	2.7	21.1	2 11	9 12.52	+16 49.2	1.996	2.979	2.0	20.1
2 21	9 4.81	+ 9 3.2	2.030	2.989	5.6	21.3	2 21	9 3.79	+17 33.2	2.023	2.978	6.0	20.4
3 2	8 58.05	+ 9 47.5	2.086	2.995	9.0	21.5	3 2	8 56.35	+18 9.5	2.078	2.976	9.6	20.6
3 12	8 53.17	+10 27.6	2.166	3.002	12.1	21.7	3 12	8 50.89	+18 35.7	2.157	2.974	12.8	20.8
309396	2007 TR ₂₀₂		2 6.4 216°03	5.2/ 2.5	18		413540	2005 SO ₁₄₂		2 6.4 20°50	5.0/10.2	18	
1 2	9 46.86	+27 10.3	1.905	2.727	13.6	21.4	1 2	9 36.55	- 0 8.4	1.486	2.271	18.5	20.7
1 12	9 41.30	+28 19.5	1.825	2.720	10.5	21.1	1 12	9 33.65	+ 0 12.2	1.413	2.277	15.0	20.5
1 22	9 33.00	+29 30.2	1.769	2.713	7.3	20.9	1 22	9 28.24	+ 1 0.7	1.360	2.284	11.0	20.2
2 1	9 22.68	+30 34.0	1.740	2.705	5.3	20.8	2 1	9 21.00	+ 2 15.9	1.329	2.291	7.0	20.0
2 11	9 11.48	+31 22.5	1.741	2.697	6.4	20.9	2 11	9 13.06	+ 3 51.8	1.325	2.300	5.0	19.9
2 21	9 0.75	+31 50.6	1.769	2.688	9.6	21.0	2 21	9 5.62	+ 5 39.2	1.347	2.309	7.5	20.1
3 2	8 51.75	+31 56.7	1.823	2.679	13.0	21.2	3 2	8 59.85	+ 7 27.6	1.395	2.318	11.5	20.4
3 12	8 45.40	+31 42.7	1.898	2.669	16.0	21.4	3 12	8 56.56	+ 9 7.6	1.466	2.329	15.3	20.6
320816	2008 FZ ₁₄		2 6.4 229°52	3.4/ 9.3	18		135197	2001 RB ₄₂		2 6.4 169°79	1.2/ 7.6	18	
1 2	9 40.01	+ 2 26.5	2.232	2.994	13.8	21.0	1 2	9 38.67	+ 9 1.2	2.722	3.502	11.1	21.5
1 12	9 35.58	+ 2 45.9	2.130	2.984	11.1	20.8	1 12	9 34.14	+ 9 26.8	2.632	3.505	8.6	21.3
1 22	9 29.17	+ 3 23.4	2.051	2.973	8.0	20.6	1 22	9 28.05	+10 3.0	2.568	3.507	5.6	21.1
2 1	9 21.28	+ 4 17.6	1.998	2.962	4.8	20.4	2 1	9 20.85	+10 47.3	2.533	3.509	2.5	20.9
2 11	9 12.70	+ 5 25.2	1.975	2.950	3.5	20.3	2 11	9 13.21	+11 36.4	2.528	3.511	1.7	20.9
2 21	9 4.33	+ 6 40.8	1.981	2.938	5.9	20.4	2 21	9 5.84	+12 26.4	2.554	3.512	4.7	21.1
3 2	8 57.07	+ 7 58.4	2.016	2.926	9.3	20.6	3 2	8 59.42	+13 13.4	2.609	3.513	7.7	21.3
3 12	8 51.66	+ 9 12.1	2.077	2.913	12.5	20.8	3 12	8 54.50	+13 54.7	2.691	3.514	10.4	21.4
68594	2002 AJ ₃₇		2 6.4 190°75	2.2/ 4.3	18		461509	2003 RR ₁₇		2 6.4 223°85	5.0/11.5	17	
1 2	9 41.63	+18 51.7	2.326	3.136	11.8	19.4	1 2	9 39.29	- 4 50.5	2.877	3.584	12.2	22.5
1 12	9 36.77	+20 2.1	2.241	3.134	8.9	19.2	1 12	9 34.63	- 4 45.6	2.764	3.571	10.3	22.3
1 22	9 29.88	+21 20.0	2.182	3.133	5.6	19.0	1 22	9 28.40	- 4 23.6	2.674	3.557	8.1	22.2
2 1	9 21.52	+22 39.5	2.152	3.131	2.6	18.8	2 1	9 21.00	- 3 43.9	2.610	3.543	6.0	22.0
2 11	9 12.52	+23 54.1	2.153	3.128	3.4	18.9	2 11	9 13.06	- 2 48.2	2.576	3.528	5.0	21.9
2 21	9 3.82	+24 58.1	2.185	3.125	6.7	19.1	2 21	9 5.25	- 1 39.9	2.572	3.512	5.9	21.9
3 2	8 56.32	+25 47.9	2.244	3.121	10.0	19.3	3 2	8 58.28	- 0 23.4	2.598	3.495	8.0	22.1
3 12	8 50.75	+26 22.1	2.328	3.117	12.9	19.5	3 12	8 52.72	+ 0 55.7	2.651	3.478	10.4	22.2
489684	2007 VH ₇₇		2 6.4 153°72	3.0/ 3.4	16		418273	2008 EE ₈₀		2 6.4 254°03	1.4/ 5.3	18	
1 2	9 41.54	+24 51.5	2.789	3.600	10.1	22.6	1 2	9 42.30	+16 51.8	1.920	2.735	13.8	21.3
1 12	9 36.32	+25 40.1	2.715										

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
290971	2005 <i>XA</i> ₁₀		2 6.4 249°60	0°4/ 6.6 18			176847	2002 <i>TE</i> ₂₂₉		2 6.4 61°01	3°5/ 4.1 18		
1 2	9 42.53	+13 25.4	1.911	2.717	14.2	20.9	1 2	9 43.53	+21 22.9	1.587	2.418	15.4	19.8
1 12	9 37.71	+13 35.0	1.827	2.716	10.8	20.7	1 12	9 38.91	+22 22.5	1.524	2.428	11.6	19.5
1 22	9 30.60	+13 54.8	1.767	2.715	6.9	20.4	1 22	9 31.53	+23 28.4	1.484	2.438	7.4	19.3
2 1	9 21.83	+14 21.4	1.734	2.714	2.6	20.1	2 1	9 22.20	+24 32.2	1.471	2.448	3.8	19.1
2 11	9 12.41	+14 50.4	1.730	2.713	2.0	20.1	2 11	9 12.20	+25 25.6	1.485	2.458	4.9	19.2
2 21	9 3.42	+15 17.3	1.754	2.713	6.4	20.4	2 21	9 2.89	+26 2.7	1.526	2.468	8.9	19.5
3 2	8 55.91	+15 38.5	1.806	2.712	10.4	20.6	3 2	8 55.50	+26 20.9	1.592	2.478	12.8	19.7
3 12	8 50.64	+15 51.7	1.881	2.711	13.9	20.8	3 12	8 50.85	+26 20.8	1.679	2.489	16.2	20.0
151796	2003 <i>FZ</i> ₄₇		2 6.4 104°08	1°8/ 7.7 18			415259	2012 <i>KA</i> ₂₆		2 6.4 4°03	1°1/ 7.1 18		
1 2	9 41.70	+ 8 48.1	1.952	2.744	14.5	20.4	1 2	9 40.07	+10 57.9	1.591	2.406	16.2	21.3
1 12	9 36.93	+ 9 1.7	1.876	2.754	11.2	20.2	1 12	9 36.27	+11 15.0	1.514	2.406	12.5	21.0
1 22	9 30.02	+ 9 29.2	1.823	2.763	7.4	19.9	1 22	9 29.89	+11 47.2	1.458	2.406	8.1	20.8
2 1	9 21.60	+10 7.8	1.796	2.772	3.4	19.7	2 1	9 21.65	+12 31.2	1.427	2.406	3.3	20.5
2 11	9 12.63	+10 53.1	1.799	2.782	2.3	19.7	2 11	9 12.65	+13 21.0	1.424	2.408	2.3	20.4
2 21	9 4.13	+11 40.0	1.831	2.791	6.0	19.9	2 21	9 4.15	+14 10.3	1.447	2.409	7.0	20.7
3 2	8 57.05	+12 23.7	1.890	2.799	9.8	20.2	3 2	8 57.32	+14 53.3	1.497	2.411	11.5	21.0
3 12	8 52.09	+13 0.6	1.973	2.808	13.1	20.4	3 12	8 53.02	+15 26.3	1.569	2.414	15.4	21.2
325211	2008 <i>GF</i> ₉		2 6.4 316°80	1°6/ 5.4 18			108358	2001 <i>KT</i> ₁₂		2 6.4 181°93	5°8/ 1.3 18		
1 2	9 41.40	+17 28.4	1.594	2.422	15.5	20.9	1 2	9 44.87	+28 31.0	2.009	2.832	13.0	19.9
1 12	9 37.46	+18 2.2	1.509	2.411	11.8	20.6	1 12	9 39.71	+30 6.6	1.939	2.833	10.0	19.7
1 22	9 30.75	+18 46.1	1.446	2.401	7.4	20.3	1 22	9 32.00	+31 42.9	1.893	2.833	7.2	19.6
2 1	9 21.97	+19 34.5	1.409	2.390	2.8	20.0	2 1	9 22.40	+33 10.9	1.876	2.833	5.8	19.5
2 11	9 12.26	+20 20.2	1.399	2.380	3.4	20.0	2 11	9 12.00	+34 21.8	1.888	2.833	7.1	19.6
2 21	9 2.99	+20 56.7	1.417	2.371	8.1	20.3	2 21	9 2.04	+35 10.2	1.927	2.832	9.8	19.7
3 2	8 55.44	+21 19.9	1.459	2.362	12.7	20.5	3 2	8 53.71	+35 34.4	1.992	2.830	12.8	19.9
3 12	8 50.59	+21 28.1	1.523	2.353	16.6	20.8	3 12	8 47.86	+35 36.3	2.078	2.828	15.4	20.1
425718	2011 <i>BT</i> ₃₀		2 6.4 339°13	1°7/ 5.5 17			433541	2013 <i>WJ</i> ₁₀₅		2 6.4 52°37	2°7/ 8.0 18		
1 2	9 44.05	+19 36.7	1.572	2.400	15.7	20.2	1 2	9 43.52	+ 8 42.7	2.167	2.949	13.5	20.4
1 12	9 39.43	+19 39.2	1.490	2.392	11.9	20.0	1 12	9 38.07	+ 8 9.9	2.087	2.957	10.6	20.2
1 22	9 31.95	+19 47.0	1.430	2.384	7.5	19.7	1 22	9 30.63	+ 7 47.2	2.031	2.966	7.2	20.0
2 1	9 22.38	+19 55.3	1.396	2.377	2.9	19.4	2 1	9 21.83	+ 7 33.9	2.003	2.974	3.9	19.8
2 11	9 11.96	+19 58.6	1.389	2.371	3.3	19.4	2 11	9 12.55	+ 7 28.4	2.004	2.983	2.9	19.8
2 21	9 2.12	+19 53.3	1.410	2.365	8.0	19.7	2 21	9 3.72	+ 7 28.2	2.035	2.992	5.8	20.0
3 2	8 54.16	+19 37.3	1.456	2.360	12.6	19.9	3 2	8 56.23	+ 7 30.6	2.094	3.001	9.1	20.2
3 12	8 49.01	+19 10.9	1.523	2.356	16.5	20.2	3 12	8 50.72	+ 7 33.0	2.178	3.011	12.2	20.4
428105	2006 <i>QP</i> ₁₈₇		2 6.4 154°72	0°7/ 6.5 16			135252	2001 <i>SR</i> ₃₈		2 6.4 163°86	8°8/ 27.9 17		
1 2	10 4.15	+18 11.7	1.126	1.941	21.5	20.9	1 2	9 53.14	+49 22.1	2.897	3.660	10.9	21.1
1 12	9 55.53	+17 5.3	1.053	1.945	16.6	20.6	1 12	9 45.54	+50 29.3	2.847	3.664	9.7	21.0
1 22	9 42.48	+16 0.5	1.000	1.950	10.7	20.3	1 22	9 35.39	+51 22.7	2.821	3.669	8.9	21.0
2 1	9 26.18	+14 54.7	0.973	1.953	4.0	20.0	2 1	9 23.51	+51 55.2	2.822	3.672	8.8	21.0
2 11	9 8.77	+13 46.6	0.973	1.957	3.2	19.9	2 11	9 11.13	+52 2.6	2.848	3.676	9.5	21.0
2 21	8 52.70	+12 37.3	1.001	1.959	9.9	20.3	2 21	8 59.50	+51 43.9	2.898	3.679	10.7	21.1
3 2	8 39.99	+11 29.2	1.054	1.962	15.9	20.6	3 2	8 49.74	+51 1.3	2.972	3.681	12.0	21.2
3 12	8 31.74	+10 23.9	1.127	1.963	20.8	20.9	3 12	8 42.59	+49 59.5	3.064	3.684	13.3	21.3
431251	2006 <i>TZ</i> ₁₂₀		2 6.4 150°78	0°3/ 6.1 17			323488	2004 <i>PU</i> ₄₅		2 6.4 242°59	1°5/ 5.2 17		
1 2	9 37.89	+13 37.5	2.621	3.420	11.0	21.6	1 2	9 42.82	+17 59.9	2.118	2.929	12.8	21.3
1 12	9 33.67	+14 25.1	2.536	3.423	8.3	21.5	1 12	9 37.92	+18 37.2	2.023	2.917	9.7	21.1
1 22	9 27.81	+15 21.6	2.477	3.426	5.2	21.3	1 22	9 30.77	+19 22.1	1.954	2.905	6.1	20.8
2 1	9 20.81	+16 23.4	2.447	3.428	1.8	21.0	2 1	9 21.95	+20 9.7	1.912	2.892	2.4	20.6
2 11	9 13.34	+17 25.8	2.448	3.431	1.8	21.0	2 11	9 12.39	+20 54.4	1.900	2.879	2.9	20.6
2 21	9 6.15	+18 24.2	2.480	3.433	5.1	21.3	2 21	9 3.11	+21 31.2	1.917	2.866	6.8	20.8
3 2	8 59.95	+19 15.0	2.540	3.436	8.2	21.5	3 2	8 55.16	+21 56.7	1.962	2.853	10.5	21.0
3 12	8 55.32	+19 55.9	2.626	3.438	10.9	21.7	3 12	8 49.33	+22 9.7	2.030	2.839	13.8	21.2
447229	2005 <i>UZ</i> ₉₅		2 6.4 51°61	1°8/ 7.4 18			290518	2005 <i>UJ</i> ₃₈		2 6.4 216°57	5°1/ 2.1 17		
1 2	9 42.78	+ 9 8.0	1.227	2.049	19.6	21.3	1 2	9 44.67	+28 23.6	2.164	2.983	12.3	21.5
1 12	9 38.75	+ 9 29.0	1.168	2.063	15.1	21.0	1 12	9 39.38	+29 32.5	2.084	2.977	9.5	21.1
1 22	9 31.60	+10 11.0	1.129	2.077	9.9	20.8	1 22	9 31.70	+30 41.6	2.030	2.971	6.7	21.1
2 1	9 22.24	+11 9.4	1.113	2.092	4.3	20.5	2 1	9 22.28	+31 43.3	2.004	2.964	5.1	21.0
2 11	9 12.14	+12 16.0	1.123	2.107	2.8	20.5	2 11	9 12.12	+32 30.6	2.007	2.957	6.2	21.0
2 21	9 2.88	+13 21.7	1.159	2.122	8.1	20.8	2 21	9 2.37	+32 59.1	2.038	2.950	8.9	21.2
3 2	8 55.85	+14 19.1	1.218	2.138	13.1	21.1	3 2	8 54.10	+33 7.3	2.095	2.942	11.9	21.4
3 12	8 51.93	+15 3.0	1.299	2.154	17.4	21.4	3 12	8 48.14	+32 56.6	2.174	2.934	14.5	21.5
253175	2002 <i>XK</i> ₂		2 6.4 38°06	3°3/ 8.4 18			413102	2001 <i>UK</i> ₁₃₄		2 6.4 74°09	6°9/ 11.7 18		
1 2	9 40.79	+ 6 1.6	1.261	2.075	19.6	20.2	1 2	9 40.92	- 4 18.3	1.814	2.555	17.3	20.9
1 12	9 36.99	+ 6 11.1	1.212	2.099	15.3	20.0	1 12	9 36.46	- 4 42.1	1.743	2.571	14.4	20.8
1 22	9 30.32	+ 6 43.6	1.182	2.123	10.4	19.8	1 22	9 29.78	- 4 42.0	1.692	2.586	11.3	20.6
2 1	9 21.74	+ 7 35.6	1.175	2.149	5.4	19.6	2 1	9 21.56	- 4 17.0	1.665	2.602	8.4	20.5
2 11	9 12.62	+ 8 39.9	1.194	2.175	3.6	19.5	2 11	9 12.78	- 3 29.4	1.664	2.618	6.9	20.4
2 21	9 4.41	+ 9 47.8	1.238	2.202	7.6	19.8	2 21	9 4.51	- 2 24.4	1.690	2.634	8.0	20.5
3 2	8 58.30	+10 51.3	1.307	2.230	12.2	20.2	3 2	8 57.73	- 1 9.1	1.743	2.649	10.7	20.7
3 12	8 55.03	+11 44.4	1.398	2.258	16.1	20.5	3 12	8 53.15	+ 0 8.5	1.819	2.665	13.6	20.9
348424	2005 <i>NV</i> ₈₉		2 6.4 246°55	1°8/ 7.4 18			29588	1998 <i>FM</i> ₇₁		2 6.4 359°60	8°5/ 31.7 18 R		
1 2	9 44.38	+ 9 20.1	1.530	2.334	17.2	21.7	1 2	9					

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
197525	Versteeg		2 6.4	36°15	0°0/ 6.2	18	123654	2000 YG ₇₄		2 6.4	57°43	0°8/ 5.8	18
1 2	9 39.79	+13 52.4	1.898	2.710	14.0	20.6	1 2	9 40.39	+14 23.8	1.782	2.598	14.6	19.4
1 12	9 35.58	+14 15.4	1.827	2.720	10.6	20.4	1 12	9 36.20	+15 15.6	1.714	2.610	11.0	19.2
1 22	9 29.21	+14 48.6	1.781	2.731	6.7	20.1	1 22	9 29.70	+16 19.2	1.669	2.621	6.8	19.0
2 1	9 21.35	+15 28.1	1.760	2.741	2.4	19.9	2 1	9 21.57	+17 28.9	1.652	2.633	2.4	18.8
2 11	9 12.97	+16 8.7	1.769	2.753	2.0	19.9	2 11	9 12.85	+18 37.5	1.663	2.645	2.6	18.8
2 21	9 5.10	+16 45.6	1.806	2.764	6.3	20.2	2 21	9 4.67	+19 38.5	1.702	2.657	6.9	19.1
3 2	8 58.69	+17 14.8	1.870	2.776	10.1	20.4	3 2	8 58.04	+20 27.2	1.769	2.670	10.9	19.4
3 12	8 54.42	+17 34.2	1.957	2.788	13.4	20.7	3 12	8 53.72	+21 1.2	1.858	2.682	14.3	19.6
148802	2001 UO ₉₈		2 6.4	167°85	1°4/ 5.3	18	240302	2003 FK ₇₉		2 6.4	268°39	4°6/ 9.2	18
1 2	9 42.80	+17 13.6	2.052	2.863	13.2	21.0	1 2	9 42.18	+ 3 8.6	1.627	2.409	17.3	21.0
1 12	9 37.82	+17 55.7	1.972	2.865	9.9	20.8	1 12	9 38.06	+ 3 0.6	1.528	2.393	14.0	20.7
1 22	9 30.64	+18 45.7	1.916	2.868	6.2	20.6	1 22	9 31.22	+ 3 13.5	1.448	2.376	10.2	20.4
2 1	9 21.88	+19 38.7	1.889	2.869	2.3	20.3	2 1	9 22.24	+ 3 47.9	1.393	2.359	6.3	20.2
2 11	9 12.50	+20 28.7	1.891	2.871	2.8	20.4	2 11	9 12.18	+ 4 40.6	1.365	2.341	4.7	20.0
2 21	9 3.54	+21 10.6	1.922	2.872	6.7	20.6	2 21	9 2.32	+ 5 45.7	1.364	2.323	7.8	20.2
3 2	8 55.99	+21 40.9	1.981	2.873	10.4	20.8	3 2	8 54.00	+ 6 55.9	1.389	2.305	12.1	20.4
3 12	8 50.59	+21 58.5	2.064	2.874	13.6	21.0	3 12	8 48.25	+ 8 3.3	1.437	2.287	16.3	20.6
289204	2004 XL ₉		2 6.4	77°52	0°5/ 6.7	18	466233	2012 UM ₈₄		2 6.4	143°63	4°6/ 2.9	18
1 2	9 45.61	+12 54.5	1.486	2.301	17.1	20.8	1 2	9 47.05	+30 47.5	2.485	3.294	11.2	20.7
1 12	9 40.43	+13 7.4	1.423	2.316	13.0	20.6	1 12	9 40.69	+31 16.9	2.413	3.299	8.7	20.5
1 22	9 32.45	+13 33.5	1.382	2.331	8.3	20.3	1 22	9 32.25	+31 42.3	2.367	3.303	6.2	20.3
2 1	9 22.53	+14 8.3	1.366	2.346	3.1	20.0	2 1	9 22.42	+31 58.2	2.348	3.307	4.7	20.3
2 11	9 11.99	+14 45.6	1.377	2.361	2.4	20.0	2 11	9 12.16	+32 0.6	2.360	3.311	5.4	20.3
2 21	9 2.21	+15 19.6	1.416	2.376	7.4	20.4	2 21	9 2.46	+31 47.3	2.401	3.315	7.7	20.5
3 2	8 54.45	+15 45.8	1.480	2.391	12.0	20.7	3 2	8 54.22	+31 18.7	2.469	3.318	10.2	20.6
3 12	8 49.48	+16 1.8	1.567	2.405	15.8	20.9	3 12	8 48.09	+30 37.0	2.561	3.322	12.6	20.8
429948	2012 UK ₃₇		2 6.4	189°64	1°8/ 4.9	17	381241	2007 TE ₄₄		2 6.4	104°63	6°6/ 31.8	18
1 2	9 41.89	+20 54.5	2.582	3.390	10.9	21.3	1 2	9 48.11	+37 35.2	2.532	3.334	11.2	20.9
1 12	9 36.71	+21 17.1	2.498	3.390	8.2	21.1	1 12	9 41.52	+38 30.8	2.481	3.352	9.1	20.8
1 22	9 29.74	+21 42.6	2.439	3.389	5.1	20.9	1 22	9 32.77	+39 18.1	2.456	3.369	7.3	20.7
2 1	9 21.51	+22 7.2	2.410	3.388	2.3	20.7	2 1	9 22.59	+39 50.7	2.458	3.385	6.6	20.7
2 11	9 12.83	+22 27.0	2.410	3.387	2.8	20.8	2 11	9 12.05	+40 3.8	2.489	3.402	7.4	20.8
2 21	9 4.50	+22 39.2	2.441	3.386	5.8	20.9	2 21	9 2.19	+39 56.1	2.547	3.418	9.1	20.9
3 2	8 57.31	+22 42.0	2.501	3.384	8.8	21.1	3 2	8 53.95	+39 28.7	2.630	3.434	11.1	21.1
3 12	8 51.87	+22 35.2	2.584	3.383	11.5	21.3	3 12	8 47.95	+38 45.0	2.736	3.449	12.9	21.2
57821	2001 WD ₄₄		2 6.4	46°59	2°5/ 4.3	18	310883	2003 PK ₆		2 6.4	73°64	1°6/ 7.2	18
1 2	9 39.35	+19 29.0	1.994	2.818	13.0	18.5	1 2	9 47.95	+11 14.6	1.526	2.330	17.3	20.1
1 12	9 35.21	+20 33.0	1.932	2.832	9.7	18.3	1 12	9 41.94	+11 9.9	1.470	2.356	13.2	19.9
1 22	9 28.96	+21 43.4	1.894	2.847	6.0	18.1	1 22	9 33.25	+11 18.5	1.437	2.382	8.5	19.7
2 1	9 21.26	+22 53.8	1.884	2.862	2.8	18.0	2 1	9 22.80	+11 37.2	1.429	2.407	3.6	19.4
2 11	9 13.06	+23 57.5	1.903	2.878	3.7	18.0	2 11	9 11.89	+12 1.1	1.449	2.433	2.5	19.4
2 21	9 5.37	+24 49.0	1.951	2.894	7.2	18.3	2 21	9 1.88	+12 25.2	1.498	2.458	7.1	19.8
3 2	8 59.11	+25 25.4	2.025	2.910	10.5	18.5	3 2	8 53.92	+12 45.4	1.573	2.483	11.4	20.1
3 12	8 54.94	+25 45.8	2.122	2.926	13.5	18.7	3 12	8 48.70	+12 59.0	1.670	2.508	15.0	20.3
282157	2001 SS ₉₄		2 6.4	107°59	4°1/ 8.9	18	183425	2003 AL ₂₃		2 6.4	59°84	5°2/ 10.4	18
1 2	9 44.80	+ 4 3.9	1.585	2.368	17.7	20.9	1 2	9 39.67	- 0 32.2	2.170	2.919	14.5	19.8
1 12	9 39.68	+ 4 0.0	1.515	2.382	14.0	20.7	1 12	9 35.23	- 0 58.1	2.091	2.929	11.9	19.7
1 22	9 31.94	+ 4 16.5	1.466	2.396	9.9	20.5	1 22	9 28.91	- 1 6.7	2.034	2.939	9.0	19.5
2 1	9 22.36	+ 4 52.1	1.442	2.409	5.8	20.3	2 1	9 21.27	- 0 57.5	2.002	2.949	6.4	19.3
2 11	9 12.12	+ 5 42.2	1.445	2.422	4.2	20.2	2 11	9 13.14	- 0 32.2	1.998	2.959	5.2	19.3
2 21	9 2.50	+ 6 40.4	1.476	2.435	7.3	20.4	2 21	9 5.39	+ 0 5.5	2.022	2.970	6.6	19.4
3 2	8 54.69	+ 7 39.9	1.534	2.447	11.4	20.7	3 2	8 58.86	+ 0 51.0	2.074	2.980	9.3	19.6
3 12	8 49.48	+ 8 34.4	1.614	2.459	15.1	20.9	3 12	8 54.18	+ 1 39.0	2.150	2.991	12.0	19.8
417297	2006 BA ₇₂		2 6.4	311°28	2°6/ 4.9	18	351749	2006 DS ₁₂₀		2 6.4	322°76	5°7/ 3.3	18
1 2	9 44.25	+21 51.7	1.781	2.605	14.3	20.5	1 2	9 41.19	+23 52.2	1.179	2.034	18.0	20.0
1 12	9 39.42	+22 8.3	1.690	2.590	10.9	20.3	1 12	9 38.49	+24 54.9	1.097	2.013	13.9	19.7
1 22	9 31.91	+22 28.4	1.623	2.576	6.9	20.0	1 22	9 32.10	+26 6.2	1.035	1.992	9.3	19.4
2 1	9 22.41	+22 46.8	1.583	2.561	3.2	19.8	2 1	9 22.70	+27 15.2	0.997	1.971	5.8	19.1
2 11	9 12.06	+22 57.7	1.570	2.547	3.9	19.8	2 11	9 11.81	+28 9.5	0.982	1.952	7.4	19.2
2 21	9 2.14	+22 57.0	1.586	2.534	8.0	20.0	2 21	9 1.39	+28 39.5	0.990	1.934	12.3	19.3
3 2	8 53.89	+22 43.0	1.627	2.521	12.2	20.2	3 2	8 53.36	+28 41.2	1.020	1.917	17.4	19.6
3 12	8 48.24	+22 16.3	1.691	2.508	15.8	20.4	3 12	8 49.06	+28 16.4	1.067	1.901	21.9	19.8
42797	1999 CL ₇₆		2 6.4	92°21	1°4/ 5.7	18	125541	2001 WQ ₉₀		2 6.4	24°65	2°3/ 7.5	18
1 2	9 49.33	+19 42.4	1.825	2.635	14.6	17.3	1 2	9 45.14	+10 52.1	1.307	2.126	18.8	19.6
1 12	9 42.77	+19 41.0	1.757	2.649	11.0	17.1	1 12	9 40.55	+10 29.4	1.236	2.129	14.6	19.3
1 22	9 33.70	+19 43.2	1.712	2.663	6.9	16.9	1 22	9 32.81	+10 21.5	1.186	2.133	9.7	19.0
2 1	9 22.95	+19 44.7	1.696	2.676	2.6	16.7	2 1	9 22.78	+10 26.5	1.159	2.137	4.4	18.8
2 11	9 11.71	+19 41.4	1.709	2.690	2.8	16.7	2 11	9 11.87	+10 40.3	1.158	2.141	3.1	18.7
2 21	9 1.23	+19 30.7	1.751	2.703	7.0	17.0	2 21	9 1.70	+10 57.6	1.184	2.147	8.1	19.0
3 2	8 52.60	+19 11.6	1.821	2.716	11.0	17.3	3 2	8 53.70	+11 13.7	1.233	2.152	13.1	19.3
3 12	8 46.54	+18 44.7	1.914	2.729	14.3	17.5	3 12	8 48.82	+11 24.5	1.304	2.158	17.4	19.6
182329	2001 PH ₁₅		2 6.4	107°24	2°2/ 4.7	18 R	454758	2014 WV ₂₃		2 6.4	324°17	0°6/ 6.8	18
1 2	9 44.93	+19 17.1	2.030	2.841	13.3	20.6	1 2	9 42.50	+12 54.7	1.745	2.555	15.2	21.3
1 12	9 39.30	+20 9.5											

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
110918	2001 <i>UP</i> ₁₃₅		2 6.4 29°42'	2.3°/ 8.2	18		335908	2007 <i>RS</i> ₃₁₃		2 6.4 119°17'	0.3°/ 6.6	18	
1 2	9 37.98	+ 7 1.1	2.059	2.849	13.9	19.2	1 2	9 42.84	+14 14.1	2.470	3.264	11.7	20.7
1 12	9 34.10	+ 7 12.6	1.981	2.855	10.9	19.0	1 12	9 37.39	+14 18.4	2.393	3.275	8.9	20.6
1 22	9 28.26	+ 7 38.6	1.925	2.862	7.4	18.8	1 22	9 30.16	+14 29.5	2.340	3.286	5.6	20.4
2 1	9 21.06	+ 8 17.2	1.896	2.869	3.8	18.6	2 1	9 21.73	+14 44.7	2.317	3.297	2.1	20.2
2 11	9 13.34	+ 9 4.2	1.895	2.876	2.6	18.6	2 11	9 12.90	+15 0.9	2.324	3.307	1.6	20.1
2 21	9 6.02	+ 9 54.8	1.923	2.884	5.7	18.8	2 21	9 4.49	+15 15.1	2.361	3.317	5.1	20.4
3 2	8 59.95	+10 44.0	1.979	2.892	9.2	19.0	3 2	8 57.26	+15 25.1	2.427	3.327	8.4	20.6
3 12	8 55.79	+11 27.8	2.059	2.900	12.4	19.2	3 12	8 51.81	+15 29.4	2.519	3.337	11.2	20.8
305025	2007 <i>TQ</i> ₃₉₁		2 6.4 313°29'	5.0°/ 3.5	18		232979	2005 <i>EG</i> ₁₂₄		2 6.4 313°29'	0.0°/ 6.2	17	
1 2	9 46.44	+25 31.5	1.519	2.353	15.9	20.1	1 2	9 38.95	+13 28.1	1.987	2.797	13.6	20.7
1 12	9 41.48	+26 21.8	1.446	2.349	12.1	19.9	1 12	9 35.10	+13 58.4	1.895	2.787	10.3	20.5
1 22	9 33.39	+27 14.4	1.396	2.346	8.1	19.6	1 22	9 29.07	+14 40.1	1.826	2.776	6.6	20.2
2 1	9 22.99	+28 0.4	1.371	2.343	5.2	19.5	2 1	9 21.44	+15 29.5	1.785	2.766	2.4	19.9
2 11	9 11.69	+28 31.0	1.373	2.340	6.3	19.5	2 11	9 13.09	+16 21.2	1.772	2.756	2.0	19.9
2 21	9 1.07	+28 41.2	1.402	2.337	10.2	19.7	2 21	9 5.04	+17 9.8	1.788	2.746	6.3	20.1
3 2	8 52.58	+28 29.8	1.454	2.334	14.2	20.0	3 2	8 58.29	+17 50.7	1.831	2.737	10.3	20.4
3 12	8 47.19	+27 59.2	1.527	2.332	17.8	20.2	3 12	8 53.61	+18 20.9	1.898	2.728	13.8	20.6
209363	2004 <i>DF</i> ₆₁		2 6.4 327°10'	0.6°/ 6.9	18		184114	2004 <i>HM</i> ₄₇		2 6.4 254°18'	3.6°/ 3.8	18	
1 2	9 38.46	+12 0.1	1.974	2.782	13.7	20.5	1 2	9 43.67	+22 47.5	1.864	2.688	13.8	20.8
1 12	9 34.70	+12 19.6	1.883	2.772	10.5	20.3	1 12	9 38.90	+23 41.7	1.782	2.681	10.4	20.6
1 22	9 28.79	+12 51.2	1.815	2.763	6.8	20.0	1 22	9 31.57	+24 40.9	1.723	2.674	6.8	20.3
2 1	9 21.30	+13 31.7	1.774	2.754	2.6	19.7	2 1	9 22.35	+25 37.9	1.692	2.667	3.8	20.1
2 11	9 13.11	+14 16.3	1.761	2.745	1.9	19.7	2 11	9 12.33	+26 25.4	1.689	2.659	4.9	20.2
2 21	9 5.25	+15 0.0	1.777	2.737	6.2	19.9	2 21	9 2.73	+26 57.8	1.714	2.651	8.5	20.4
3 2	8 58.67	+15 38.3	1.819	2.729	10.1	20.1	3 2	8 54.73	+27 12.6	1.765	2.644	12.2	20.6
3 12	8 54.16	+16 7.8	1.886	2.721	13.6	20.3	3 12	8 49.21	+27 10.1	1.838	2.636	15.5	20.8
134424	1998 <i>QM</i> ₄₃		2 6.4 65°09'	1°8'/ 5.2	17		362442	2010 <i>RE</i> ₇₉		2 6.4 226°30'	0°2'/ 6.3	18	
1 2	9 46.55	+16 23.2	1.524	2.344	16.5	19.5	1 2	9 45.38	+14 52.1	1.954	2.757	14.0	21.6
1 12	9 40.89	+17 25.3	1.482	2.380	12.3	19.4	1 12	9 40.00	+15 8.7	1.860	2.748	10.7	21.3
1 22	9 32.57	+18 37.1	1.462	2.415	7.5	19.2	1 22	9 32.19	+15 34.6	1.790	2.738	6.8	21.1
2 1	9 22.56	+19 50.5	1.470	2.451	2.8	19.0	2 1	9 22.57	+16 6.0	1.748	2.728	2.4	20.8
2 11	9 12.17	+20 57.0	1.506	2.486	3.4	19.1	2 11	9 12.14	+16 38.0	1.735	2.718	2.2	20.7
2 21	9 2.74	+21 50.1	1.570	2.520	7.8	19.4	2 21	9 2.06	+17 5.9	1.751	2.707	6.7	21.0
3 2	8 55.37	+22 26.8	1.659	2.555	11.8	19.8	3 2	8 53.44	+17 26.2	1.795	2.695	10.8	21.2
3 12	8 50.73	+22 46.6	1.771	2.589	15.2	20.0	3 12	8 47.13	+17 36.8	1.862	2.683	14.4	21.4
362997	2013 <i>CD</i> ₁₅₈		2 6.4 81°20'	3°7'/ 4.4	18		265817	2005 <i>XA</i> ₆₇		2 6.4 35°43'	1°0'/ 7.0	18	
1 2	9 48.22	+22 42.6	1.473	2.303	16.5	20.9	1 2	9 42.60	+12 7.7	1.836	2.641	14.7	20.6
1 12	9 42.60	+23 21.8	1.413	2.315	12.4	20.7	1 12	9 37.87	+12 10.8	1.756	2.643	11.3	20.3
1 22	9 33.92	+24 4.9	1.375	2.327	8.0	20.5	1 22	9 30.79	+12 25.1	1.699	2.645	7.3	20.1
2 1	9 23.12	+24 43.6	1.363	2.340	4.1	20.3	2 1	9 22.04	+12 47.8	1.667	2.647	3.0	19.8
2 11	9 11.67	+25 10.4	1.378	2.352	5.1	20.4	2 11	9 12.64	+13 14.6	1.665	2.649	2.1	19.8
2 21	9 1.11	+25 20.6	1.420	2.364	9.2	20.6	2 21	9 3.71	+13 41.0	1.691	2.651	6.4	20.0
3 2	8 52.78	+25 13.1	1.487	2.376	13.4	20.9	3 2	8 56.30	+14 3.2	1.744	2.653	10.5	20.3
3 12	8 47.52	+24 49.7	1.575	2.388	16.9	21.2	3 12	8 51.19	+14 18.3	1.820	2.655	14.1	20.5
276610	2003 <i>UO</i> ₇₀		2 6.4 198°59'	1°8'/ 7.9	18		341663	2007 <i>VE</i> ₇₂		2 6.4 113°35'	4°4'/ 10.4	18	
1 2	9 39.63	+ 8 5.5	2.223	3.009	13.1	21.0	1 2	9 39.39	- 0 17.1	2.544	3.285	12.8	20.8
1 12	9 35.28	+ 8 24.1	2.134	3.008	10.2	20.8	1 12	9 34.78	- 0 32.0	2.461	3.295	10.5	20.6
1 22	9 29.00	+ 8 56.2	2.069	3.007	6.8	20.6	1 22	9 28.54	- 0 31.6	2.400	3.305	7.9	20.5
2 1	9 21.35	+ 9 39.3	2.031	3.006	3.3	20.4	2 1	9 21.18	- 0 16.1	2.366	3.314	5.5	20.3
2 11	9 13.13	+10 29.4	2.022	3.004	2.2	20.3	2 11	9 13.39	+ 0 12.7	2.361	3.324	4.4	20.3
2 21	9 5.21	+11 21.8	2.043	3.003	5.5	20.5	2 21	9 5.91	+ 0 51.7	2.385	3.333	5.7	20.4
3 2	8 58.46	+12 11.9	2.092	3.001	9.0	20.7	3 2	8 59.46	+ 1 36.7	2.438	3.342	8.2	20.5
3 12	8 53.55	+12 55.8	2.166	2.999	12.2	20.9	3 12	8 54.61	+ 2 23.3	2.516	3.351	10.7	20.7
309283	2007 <i>RE</i> ₁₅₈		2 6.4 112°81'	0°3'/ 6.2	18		313420	2002 <i>QK</i> ₃₅		2 6.4 198°52'	0°8'/ 5.8	18	
1 2	9 45.80	+13 38.8	1.845	2.648	14.8	21.5	1 2	9 43.85	+15 29.7	2.194	2.995	12.8	22.2
1 12	9 40.12	+14 18.7	1.781	2.668	11.1	21.3	1 12	9 38.58	+16 11.1	2.104	2.992	9.7	22.0
1 22	9 32.08	+15 9.7	1.740	2.688	7.0	21.1	1 22	9 31.16	+17 1.7	2.039	2.988	6.0	21.8
2 1	9 22.44	+16 6.7	1.726	2.707	2.4	20.8	2 1	9 22.18	+17 56.9	2.002	2.983	2.1	21.5
2 11	9 12.28	+17 3.3	1.743	2.726	2.2	20.8	2 11	9 12.51	+18 51.2	1.996	2.977	2.3	21.5
2 21	9 2.75	+17 53.6	1.788	2.744	6.6	21.2	2 21	9 3.17	+19 39.4	2.020	2.971	6.3	21.8
3 2	8 54.87	+18 33.6	1.862	2.761	10.6	21.4	3 2	8 55.11	+20 17.8	2.072	2.964	10.0	22.0
3 12	8 49.37	+19 1.4	1.959	2.777	13.9	21.7	3 12	8 49.09	+20 44.3	2.148	2.957	13.2	22.2
139506	2001 <i>PM</i> ₄₀		2 6.4 358°22'	8°9'/ 11.5	18		146515	2001 <i>SJ</i> ₁₂₄		2 6.4 320°08'	2°1'/ 7.8	18	
1 2	9 40.05	- 4 3.8	1.525	2.283	19.3	19.1	1 2	9 41.18	+ 8 38.7	1.728	2.528	15.7	20.1
1 12	9 36.41	- 5 9.9	1.445	2.281	16.4	18.9	1 12	9 36.99	+ 8 47.1	1.644	2.526	12.3	19.8
1 22	9 30.12	- 5 51.9	1.384	2.279	13.2	18.7	1 22	9 30.36	+ 9 11.3	1.581	2.523	8.2	19.6
2 1	9 21.85	- 6 5.8	1.344	2.278	10.3	18.5	2 1	9 21.92	+ 9 49.0	1.544	2.521	3.9	19.3
2 11	9 12.71	- 5 51.0	1.329	2.278	8.9	18.4	2 11	9 12.73	+10 35.4	1.535	2.518	2.6	19.2
2 21	9 4.00	- 5 11.0	1.338	2.278	10.1	18.5	2 21	9 3.94	+11 24.7	1.554	2.516	6.7	19.5
3 2	8 56.95	- 4 12.8	1.372	2.280	12.9	18.6	3 2	8 56.69	+12 11.3	1.600	2.514	11.0	19.7
3 12	8 52.48	- 3 5.6	1.427	2.282	16.1	18.8	3 12	8 51.81	+12 50.7	1.668	2.512	14.7	19.9
377706	2005 <i>WD</i> ₄₄		2 6.4 203°64'	6°0'/ 10.6	18		322877	2001 <i>WU</i> ₁₉		2 6.4 107°86'	3°6'/ 3.8	18	
1 2	9 42.51	- 2 15.2	2.251	2.983	14.6	20.9	1						

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
7669	Malše		2 6.4	27°09	4.2/ 9.5	18	468671	2009 AL ₅₀		2 6.4	40°79	3.2/ 3.6	18
1 2	9 38.30	+ 2 46.3	1.612	2.400	17.2	17.5	1 2	9 38.93	+19 53.3	1.910	2.737	13.4	20.0
1 12	9 34.84	+ 2 51.5	1.540	2.408	13.8	17.3	1 12	9 35.11	+21 23.3	1.848	2.750	10.0	19.8
1 22	9 28.98	+ 3 18.8	1.487	2.416	9.8	17.1	1 22	9 29.06	+23 0.8	1.810	2.763	6.3	19.6
2 1	9 21.42	+ 4 6.9	1.459	2.425	5.9	16.9	2 1	9 21.45	+24 37.9	1.800	2.776	3.4	19.4
2 11	9 13.21	+ 5 10.9	1.458	2.434	4.3	16.8	2 11	9 13.25	+26 6.2	1.819	2.790	4.5	19.5
2 21	9 5.50	+ 6 24.0	1.483	2.444	7.0	17.0	2 21	9 5.53	+27 18.9	1.867	2.804	7.9	19.8
3 2	8 59.37	+ 7 38.4	1.535	2.455	10.9	17.3	3 2	8 59.27	+28 12.4	1.941	2.818	11.3	20.0
3 12	8 55.60	+ 8 47.2	1.610	2.466	14.5	17.5	3 12	8 55.20	+28 46.0	2.037	2.833	14.2	20.2
223745	2004 RV ₁₇₉		2 6.4	70°87	0.2/ 6.6	18	45806	2000 QN ₂₀		2 6.4	176°90	1.3/ 5.6	18
1 2	9 46.31	+14 55.5	1.857	2.662	14.6	20.3	1 2	9 47.41	+17 41.3	1.881	2.689	14.3	20.0
1 12	9 40.40	+14 51.6	1.795	2.683	11.0	20.1	1 12	9 41.53	+18 6.8	1.800	2.691	10.8	19.8
1 22	9 32.20	+14 55.6	1.756	2.703	7.0	19.9	1 22	9 33.14	+18 39.7	1.743	2.693	6.8	19.6
2 1	9 22.49	+15 4.2	1.744	2.724	2.5	19.7	2 1	9 22.92	+19 14.8	1.713	2.694	2.5	19.3
2 11	9 12.36	+15 13.5	1.761	2.745	2.0	19.7	2 11	9 12.00	+19 46.4	1.713	2.694	2.8	19.3
2 21	9 2.94	+15 20.2	1.808	2.766	6.3	20.0	2 21	9 1.59	+20 9.9	1.742	2.694	7.1	19.6
3 2	8 55.22	+15 21.9	1.882	2.786	10.2	20.3	3 2	8 52.83	+20 22.5	1.799	2.693	11.2	19.8
3 12	8 49.84	+15 17.3	1.980	2.807	13.4	20.5	3 12	8 46.54	+20 23.5	1.879	2.692	14.6	20.0
323494	2004 PB ₉₅		2 6.4	219°54	5.4/ 10.6	17	333751	2010 EL ₂		2 6.4	131°22	3.3/ 3.9	18
1 2	9 41.56	- 1 51.1	2.368	3.101	13.9	20.9	1 2	9 44.74	+25 5.4	2.322	3.135	11.8	20.6
1 12	9 36.69	- 2 15.3	2.267	3.093	11.6	20.7	1 12	9 39.08	+25 37.1	2.249	3.142	8.9	20.4
1 22	9 29.92	- 2 22.9	2.187	3.084	8.9	20.5	1 22	9 31.35	+26 9.1	2.201	3.148	5.8	20.3
2 1	9 21.74	- 2 12.7	2.134	3.075	6.5	20.4	2 1	9 22.23	+26 36.3	2.181	3.154	3.5	20.1
2 11	9 12.91	- 1 46.0	2.109	3.066	5.4	20.3	2 11	9 12.62	+26 54.0	2.192	3.160	4.2	20.2
2 21	9 4.30	- 1 5.6	2.113	3.056	6.7	20.4	2 21	9 3.52	+26 59.4	2.232	3.165	7.0	20.4
3 2	8 56.75	- 0 16.1	2.145	3.046	9.3	20.5	3 2	8 55.82	+26 51.4	2.299	3.171	10.0	20.6
3 12	8 50.97	+ 0 37.2	2.203	3.035	12.0	20.7	3 12	8 50.17	+26 31.1	2.390	3.176	12.7	20.8
345786	2007 EP ₂₂₃		2 6.4	339°77	0°1/ 6.3	18	16007	Kaasalainen		2 6.4	246°00	0°8/ 6.0	18
1 2	9 39.73	+13 44.3	1.102	1.947	19.7	20.7	1 2	9 47.52	+17 0.2	1.631	2.447	15.8	17.7
1 12	9 37.19	+14 5.9	1.027	1.937	15.2	20.4	1 12	9 42.08	+17 7.5	1.544	2.438	12.1	17.4
1 22	9 31.15	+14 45.8	0.971	1.928	9.7	20.1	1 22	9 33.74	+17 23.0	1.479	2.430	7.6	17.1
2 1	9 22.37	+15 38.6	0.938	1.920	3.5	19.7	2 1	9 23.21	+17 42.0	1.440	2.421	2.7	16.8
2 11	9 12.35	+16 35.3	0.928	1.913	3.1	19.7	2 11	9 11.74	+17 59.1	1.429	2.412	2.7	16.8
2 21	9 2.91	+17 26.6	0.943	1.907	9.4	20.0	2 21	9 0.74	+18 9.6	1.446	2.402	7.8	17.1
3 2	8 55.81	+18 4.9	0.979	1.902	15.3	20.3	3 2	8 51.59	+18 10.6	1.490	2.392	12.4	17.3
3 12	8 52.22	+18 26.4	1.034	1.898	20.2	20.6	3 12	8 45.25	+18 1.2	1.555	2.383	16.4	17.5
58763	1998 FR ₂₅		2 6.4	340°48	0°5/ 6.7	18	368563	2004 CU ₁		2 6.4	119°24	1°4/ 6.8	16
1 2	9 41.85	+13 11.4	1.750	2.562	15.0	19.0	1 2	9 59.62	+15 55.1	1.172	1.987	20.8	20.7
1 12	9 37.48	+13 21.2	1.668	2.559	11.5	18.8	1 12	9 51.86	+14 57.2	1.104	1.996	16.0	20.4
1 22	9 30.65	+13 42.5	1.608	2.557	7.4	18.5	1 22	9 40.10	+14 5.6	1.056	2.005	10.4	20.1
2 1	9 22.03	+14 11.7	1.574	2.554	2.8	18.2	2 1	9 25.48	+13 18.2	1.033	2.013	4.1	19.8
2 11	9 12.68	+14 43.9	1.568	2.552	2.1	18.2	2 11	9 9.93	+12 33.0	1.037	2.021	3.1	19.7
2 21	9 3.78	+15 14.1	1.590	2.550	6.8	18.4	2 21	8 55.60	+11 49.0	1.069	2.029	9.3	20.1
3 2	8 56.45	+15 38.3	1.639	2.548	11.0	18.7	3 2	8 44.29	+11 6.2	1.125	2.036	14.9	20.4
3 12	8 51.52	+15 53.6	1.710	2.547	14.7	18.9	3 12	8 37.00	+10 24.1	1.202	2.042	19.5	20.7
327250	2005 SG ₉₄		2 6.4	73°55	4.4/ 10.1	18	129540	1996 PU ₂		2 6.4	215°88	0°9/ 7.0	18
1 2	9 40.05	- 0 7.7	1.777	2.542	16.7	20.9	1 2	9 45.08	+11 17.3	2.053	2.843	13.9	21.0
1 12	9 35.89	+ 0 19.3	1.707	2.559	13.5	20.7	1 12	9 39.69	+11 36.5	1.955	2.835	10.7	20.8
1 22	9 29.51	+ 1 10.0	1.657	2.576	9.8	20.5	1 22	9 31.98	+12 7.9	1.882	2.825	7.0	20.5
2 1	9 21.58	+ 2 22.5	1.633	2.593	6.1	20.3	2 1	9 22.54	+12 48.3	1.836	2.815	2.8	20.3
2 11	9 13.11	+ 3 51.4	1.636	2.610	4.4	20.2	2 11	9 12.31	+13 33.1	1.820	2.804	2.0	20.2
2 21	9 5.15	+ 5 28.8	1.669	2.627	6.7	20.4	2 21	9 2.35	+14 17.3	1.834	2.792	6.2	20.4
3 2	8 58.68	+ 7 6.5	1.728	2.644	10.2	20.7	3 2	8 53.74	+14 56.4	1.877	2.779	10.3	20.6
3 12	8 54.41	+ 8 37.0	1.812	2.661	13.5	20.9	3 12	8 47.30	+15 27.2	1.943	2.766	13.8	20.8
341499	2007 TH ₃₉₉		2 6.4	154°50	1°1/ 7.4	18	382407	1996 TE ₅		2 6.4	100°01	9°1/ 29.8	18
1 2	9 40.26	+10 21.9	2.606	3.390	11.5	21.8	1 2	9 53.31	+45 59.4	2.439	3.220	12.2	20.9
1 12	9 35.45	+10 33.2	2.520	3.395	8.8	21.7	1 12	9 45.82	+47 3.9	2.396	3.235	10.6	20.8
1 22	9 28.98	+10 53.9	2.459	3.399	5.8	21.5	1 22	9 35.65	+47 54.1	2.377	3.250	9.4	20.8
2 1	9 21.36	+11 21.8	2.426	3.403	2.5	21.3	2 1	9 23.74	+48 22.3	2.384	3.264	9.1	20.8
2 11	9 13.30	+11 53.7	2.424	3.407	1.7	21.2	2 11	9 11.43	+48 23.9	2.417	3.279	9.8	20.8
2 21	9 5.56	+12 26.3	2.453	3.411	4.8	21.4	2 21	9 0.06	+47 58.3	2.475	3.293	11.2	20.9
3 2	8 58.84	+12 56.5	2.510	3.415	7.9	21.6	3 2	8 50.78	+47 8.3	2.556	3.307	12.8	21.1
3 12	8 53.73	+13 21.6	2.593	3.418	10.7	21.8	3 12	8 44.27	+45 59.3	2.658	3.321	14.3	21.2
109540	2001 QN ₂₅₂		2 6.4	129°97	1°1/ 5.5	17	83193	2001 QK ₃₃₀		2 6.4	41°40	2°8/ 8.9	18
1 2	9 40.92	+17 25.5	2.593	3.396	11.0	20.7	1 2	9 37.47	+ 4 16.8	2.081	2.860	14.1	19.6
1 12	9 35.96	+17 58.9	2.517	3.407	8.2	20.5	1 12	9 33.73	+ 4 41.5	2.003	2.869	11.2	19.4
1 22	9 29.30	+18 37.8	2.467	3.417	5.1	20.4	1 22	9 28.08	+ 5 23.5	1.947	2.877	7.8	19.2
2 1	9 21.47	+19 18.5	2.446	3.426	1.9	20.1	2 1	9 21.09	+ 6 20.6	1.917	2.887	4.3	19.0
2 11	9 13.24	+19 56.7	2.455	3.436	2.2	20.2	2 11	9 13.59	+ 7 28.2	1.917	2.896	3.0	18.9
2 21	9 5.37	+20 28.9	2.495	3.445	5.4	20.4	2 21	9 6.47	+ 8 40.6	1.945	2.906	5.7	19.1
3 2	8 58.60	+20 52.6	2.564	3.454	8.4	20.6	3 2	9 0.57	+ 9 51.9	2.001	2.915	9.1	19.3
3 12	8 53.51	+21 6.8	2.657	3.462	11.0	20.8	3 12	8 56.53	+10 56.8	2.082	2.925	12.2	19.6
373346	2012 JN ₆₄		2 6.4	134°78	1°2/ 5.5	18	10385	Amaterasu		2 6.4	143°77	6°0/ 1.5	18
1 2	9 41.35	+16 6.8	2.040	2.851	13.2	21.2	1 2	9 47.86	+32 55.0	2.283	3.094	12.0	17.7
1 12	9 36.78	+16 54.3	1.962	2.855									

EPHEMERIDES

2 6.4

2 6.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
189863	2003 <i>HC</i> ₅₂		2 6.4 194°14	7°3/30.1	17		118276	1998 <i>QM</i> ₃₃		2 6.4 126°84	1°7/ 7.6	18	
1 2	9 47.31	+37 49.2	2.470	3.275	11.4	21.0	1 2	9 46.90	+ 8 50.3	1.758	2.547	15.9	20.7
1 12	9 41.38	+39 15.8	2.403	3.273	9.4	20.9	1 12	9 41.10	+ 9 9.3	1.688	2.564	12.3	20.5
1 22	9 33.03	+40 35.7	2.361	3.270	7.8	20.8	1 22	9 32.82	+ 9 43.6	1.641	2.581	8.1	20.3
2 1	9 22.91	+41 41.0	2.348	3.267	7.3	20.8	2 1	9 22.82	+10 29.9	1.620	2.596	3.6	20.1
2 11	9 12.06	+42 25.1	2.362	3.263	8.3	20.8	2 11	9 12.23	+11 22.7	1.628	2.611	2.4	20.0
2 21	9 1.66	+42 45.0	2.403	3.259	10.2	20.9	2 21	9 2.26	+12 15.7	1.666	2.625	6.6	20.3
3 2	8 52.79	+42 40.8	2.469	3.254	12.2	21.1	3 2	8 53.99	+13 3.8	1.731	2.639	10.7	20.6
3 12	8 46.27	+42 15.6	2.554	3.249	14.2	21.2	3 12	8 48.20	+13 43.2	1.820	2.651	14.2	20.8
433933	2015 <i>CB</i> ₂₃		2 6.4 255°53	1°5/ 7.9	17		291318	2006 <i>BQ</i> ₁₆₉		2 6.4 216°45	0°3/ 6.3	17	
1 2	9 38.22	+ 7 39.8	2.438	3.220	12.2	21.2	1 2	9 45.83	+14 28.3	1.977	2.777	14.0	22.1
1 12	9 34.18	+ 8 12.4	2.337	3.209	9.5	21.0	1 12	9 40.37	+14 53.7	1.883	2.769	10.7	21.9
1 22	9 28.35	+ 8 58.6	2.260	3.198	6.4	20.8	1 22	9 32.47	+15 29.4	1.812	2.760	6.8	21.6
2 1	9 21.22	+ 9 56.2	2.211	3.186	3.0	20.5	2 1	9 22.76	+16 11.2	1.770	2.751	2.4	21.3
2 11	9 13.48	+11 1.0	2.192	3.175	1.9	20.4	2 11	9 12.23	+16 53.7	1.757	2.740	2.2	21.3
2 21	9 5.94	+12 8.0	2.203	3.163	5.2	20.6	2 21	9 2.02	+17 31.9	1.774	2.729	6.7	21.5
3 2	8 59.39	+13 12.3	2.244	3.151	8.6	20.8	3 2	8 53.25	+18 1.6	1.818	2.717	10.8	21.7
3 12	8 54.50	+14 9.8	2.309	3.139	11.7	21.0	3 12	8 46.77	+18 20.7	1.887	2.704	14.4	21.9
426568	2013 <i>SG</i>		2 6.4 221°57	1°1/ 7.1	17		151010	2001 <i>UT</i> ₈₁		2 6.4 32°47	9°2/30.8	18	
1 2	9 44.95	+12 4.9	2.216	3.005	13.1	21.6	1 2	9 47.59	+37 8.4	1.713	2.537	14.8	19.7
1 12	9 39.38	+12 0.5	2.119	2.997	10.1	21.4	1 12	9 42.38	+38 38.9	1.657	2.540	12.1	19.5
1 22	9 31.67	+12 4.9	2.047	2.989	6.6	21.1	1 22	9 33.99	+40 0.9	1.624	2.543	9.9	19.4
2 1	9 22.41	+12 16.0	2.002	2.980	2.8	20.9	2 1	9 23.31	+41 3.3	1.616	2.546	9.2	19.4
2 11	9 12.48	+12 30.8	1.988	2.971	1.9	20.8	2 11	9 11.82	+41 37.3	1.634	2.549	10.4	19.5
2 21	9 2.86	+12 46.0	2.003	2.961	5.8	21.0	2 21	9 1.15	+41 39.6	1.676	2.552	12.7	19.6
3 2	8 54.50	+12 58.5	2.048	2.951	9.5	21.2	3 2	8 52.72	+41 12.0	1.740	2.555	15.4	19.8
3 12	8 48.16	+13 6.2	2.117	2.940	12.8	21.4	3 12	8 47.45	+40 19.9	1.824	2.559	17.8	20.0
49929	1999 <i>XU</i> ₁₇₆		2 6.4 357°20	6°2/ 3.3	18		405146	2002 <i>RJ</i> ₂₅₅		2 6.4 98°99	1°5/ 5.4	18	
1 2	9 45.83	+25 50.1	1.199	2.048	18.2	17.7	1 2	9 46.26	+17 27.9	1.850	2.660	14.4	21.7
1 12	9 41.74	+26 51.1	1.135	2.046	14.0	17.4	1 12	9 40.49	+18 6.9	1.789	2.682	10.8	21.5
1 22	9 33.94	+27 55.2	1.092	2.044	9.5	17.2	1 22	9 32.35	+18 53.4	1.753	2.704	6.7	21.3
2 1	9 23.35	+28 51.0	1.072	2.044	6.3	17.0	2 1	9 22.63	+19 41.5	1.744	2.725	2.5	21.1
2 11	9 11.71	+29 27.3	1.077	2.043	7.7	17.1	2 11	9 12.43	+20 25.1	1.765	2.745	2.9	21.1
2 21	9 0.96	+29 37.5	1.106	2.044	11.9	17.3	2 21	9 2.92	+20 59.2	1.815	2.765	7.0	21.4
3 2	8 52.83	+29 21.0	1.156	2.045	16.4	17.6	3 2	8 55.11	+21 21.2	1.892	2.785	10.7	21.7
3 12	8 48.38	+28 41.6	1.226	2.046	20.4	17.8	3 12	8 49.70	+21 30.5	1.992	2.804	13.9	21.9
260760	2005 <i>MJ</i> ₄₃		2 6.4 108°48	7°1/11.5	18		494964	2009 <i>TA</i> ₁₅		2 6.4 94°46	5°1/ 2.7	18	
1 2	9 43.40	- 4 37.0	2.015	2.741	16.2	20.7	1 2	9 47.84	+28 59.0	2.045	2.862	13.0	21.3
1 12	9 38.21	- 5 19.1	1.940	2.755	13.6	20.5	1 12	9 41.61	+29 57.5	1.993	2.884	10.0	21.1
1 22	9 30.90	- 5 40.4	1.885	2.769	10.8	20.4	1 22	9 33.01	+30 53.2	1.966	2.906	7.0	21.0
2 1	9 22.11	- 5 39.2	1.854	2.783	8.3	20.2	2 1	9 22.85	+31 38.9	1.967	2.928	5.2	20.9
2 11	9 12.77	- 5 16.3	1.850	2.796	7.1	20.2	2 11	9 12.27	+32 8.5	1.998	2.950	6.1	21.0
2 21	9 3.88	- 4 35.4	1.874	2.810	8.0	20.3	2 21	9 2.43	+32 19.1	2.056	2.971	8.7	21.2
3 2	8 56.37	- 3 42.1	1.925	2.822	10.4	20.4	3 2	8 54.36	+32 10.8	2.140	2.992	11.5	21.4
3 12	8 50.94	- 2 43.1	2.001	2.835	13.0	20.6	3 12	8 48.72	+31 46.1	2.247	3.012	14.0	21.7
15056	Barbaradixon		2 6.4 124°96	0°2/ 6.6	18		497644	2006 <i>RS</i> ₄₀		2 6.4 102°25	4°1/ 9.9	18	
1 2	9 41.08	+13 21.9	2.353	3.150	12.1	18.2	1 2	9 39.46	+ 1 22.9	2.433	3.185	13.1	21.7
1 12	9 36.24	+13 40.3	2.273	3.157	9.2	18.0	1 12	9 34.96	+ 1 9.4	2.348	3.192	10.6	21.5
1 22	9 29.56	+14 7.2	2.218	3.164	5.8	17.8	1 22	9 28.75	+ 1 10.8	2.287	3.199	7.8	21.4
2 1	9 21.62	+14 39.5	2.190	3.171	2.2	17.6	2 1	9 21.35	+ 1 26.8	2.252	3.206	5.2	21.2
2 11	9 13.20	+15 13.4	2.193	3.177	1.7	17.5	2 11	9 13.49	+ 1 55.4	2.246	3.213	4.1	21.2
2 21	9 5.16	+15 45.0	2.226	3.183	5.3	17.8	2 21	9 5.95	+ 2 33.2	2.269	3.220	5.7	21.3
3 2	8 58.30	+16 11.3	2.288	3.189	8.7	18.0	3 2	8 59.48	+ 3 16.2	2.320	3.227	8.4	21.5
3 12	8 53.24	+16 30.0	2.374	3.195	11.6	18.2	3 12	8 54.66	+ 3 59.8	2.397	3.234	11.0	21.6
465771	2009 <i>WE</i> ₂₁₅		2 6.4 152°49	0°1/ 6.5	18		269798	1999 <i>UR</i> ₄₇		2 6.4 59°67	4°3/ 9.6	18	
1 2	9 43.20	+14 10.1	2.163	2.963	13.0	22.0	1 2	9 44.18	+ 2 31.7	1.790	2.559	16.5	20.1
1 12	9 38.01	+14 21.8	2.081	2.966	9.9	21.8	1 12	9 38.75	+ 2 21.3	1.739	2.594	13.1	19.9
1 22	9 30.76	+14 41.8	2.023	2.970	6.2	21.6	1 22	9 31.15	+ 2 29.9	1.709	2.630	9.4	19.8
2 1	9 22.07	+15 7.0	1.993	2.973	2.3	21.3	2 1	9 22.17	+ 2 56.0	1.704	2.665	5.8	19.6
2 11	9 12.83	+15 33.3	1.993	2.976	1.8	21.3	2 11	9 12.86	+ 3 35.9	1.728	2.701	4.4	19.6
2 21	9 4.00	+15 56.9	2.022	2.979	5.8	21.6	2 21	9 4.28	+ 4 24.2	1.780	2.736	6.6	19.8
3 2	8 56.51	+16 14.8	2.080	2.982	9.5	21.8	3 2	8 57.34	+ 5 15.1	1.859	2.770	9.9	20.1
3 12	8 51.02	+16 25.1	2.162	2.984	12.6	22.0	3 12	8 52.63	+ 6 3.3	1.963	2.805	12.9	20.4
419195	2009 <i>UY</i> ₅₀		2 6.4 108°11	1°4/ 5.4	18		409959	2006 <i>UF</i> ₂₇₁		2 6.4 122°19	6°5/12.3	18	
1 2	9 44.28	+17 57.0	2.157	2.964	12.8	22.1	1 2	9 43.96	- 7 10.1	2.425	3.120	14.5	23.2
1 12	9 38.73	+18 31.5	2.091	2.982	9.5	21.9	1 12	9 38.25	- 7 32.1	2.350	3.143	12.3	23.1
1 22	9 31.15	+19 11.9	2.050	3.000	5.9	21.7	1 22	9 30.75	- 7 34.1	2.297	3.165	9.9	22.9
2 1	9 22.18	+19 53.4	2.037	3.017	2.2	21.5	2 1	9 22.05	- 7 15.2	2.269	3.186	7.7	22.8
2 11	9 12.77	+20 31.1	2.054	3.034	2.6	21.6	2 11	9 12.93	- 6 36.9	2.269	3.207	6.5	22.8
2 21	9 3.90	+21 0.8	2.101	3.051	6.3	21.8	2 21	9 4.23	- 5 42.8	2.298	3.227	7.2	22.9
3 2	8 56.46	+21 20.1	2.176	3.066	9.7	22.1	3 2	8 56.72	- 4 38.1	2.356	3.245	9.1	23.0
3 12	8 51.08	+21 28.3	2.275	3.082	12.6	22.3	3 12	8 50.98	- 3 28.9	2.440	3.263	11.3	23.2
458343	2010 <i>VP</i> ₁₆₈		2 6.4 200°23	5°4/10.2	18		498923	2009 <i>BT</i> ₁₉		2 6.4 111°07	1°3/ 7.3	18	
1 2	9 42.15	- 0 10.1	2.001	2.753	15.5	21.8	1 2	9 43.16	+11 35.7	2.3			

EPHEMERIDES

2 6.4

2 6.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
437322	2013 <i>PE</i> ₆₉		2 6.4 290°11	6°4/11.5 16			302454	2002 <i>EY</i> ₁₀₀		2 6.5 322°41	4°8/ 3.5 18		
1 2	9 40.14	- 6 41.3	1.127	1.900	24.0	20.8	1 2	9 40.25	+21 44.8	1.255	2.106	17.5	20.5
1 12	9 37.46	- 5 26.2	1.044	1.897	20.0	20.5	1 12	9 37.56	+22 58.3	1.174	2.088	13.3	20.2
1 22	9 31.37	- 3 18.5	0.977	1.894	15.1	20.2	1 22	9 31.46	+24 23.5	1.113	2.070	8.7	19.9
2 1	9 22.56	- 0 17.5	0.933	1.892	9.7	19.9	2 1	9 22.61	+25 50.2	1.076	2.053	5.1	19.6
2 11	9 12.39	+ 3 26.0	0.913	1.889	6.4	19.7	2 11	9 12.42	+27 5.8	1.065	2.037	6.6	19.7
2 21	9 2.63	+ 7 30.3	0.922	1.887	9.3	19.8	2 21	9 2.64	+28 0.1	1.077	2.021	11.4	19.9
3 2	8 55.03	+11 29.2	0.956	1.885	14.9	20.1	3 2	8 55.04	+28 27.7	1.112	2.007	16.4	20.1
3 12	8 50.87	+15 1.6	1.014	1.882	20.1	20.4	3 12	8 50.87	+28 28.6	1.165	1.993	20.7	20.4
1678	Hveen		2 6.4 16°28	3°3/ 4.3 18			270580	2002 <i>JR</i> ₁₁₃		2 6.5 300°07	7°1/10.9 18		
1 2	9 43.66	+24 25.3	1.996	2.819	13.1	15.4	1 2	9 40.58	- 2 46.4	1.933	2.677	16.2	20.2
1 12	9 38.60	+24 48.5	1.924	2.821	9.9	15.2	1 12	9 36.45	- 3 34.3	1.834	2.664	13.7	20.0
1 22	9 31.23	+25 12.6	1.875	2.825	6.4	15.0	1 22	9 30.06	- 4 3.1	1.756	2.651	10.8	19.8
2 1	9 22.27	+25 32.1	1.853	2.828	3.6	14.8	2 1	9 21.95	- 4 10.3	1.702	2.639	8.2	19.6
2 11	9 12.76	+25 42.0	1.861	2.832	4.3	14.9	2 11	9 13.02	- 3 55.8	1.674	2.626	7.1	19.5
2 21	9 3.83	+25 39.4	1.896	2.836	7.6	15.1	2 21	9 4.30	- 3 22.3	1.673	2.614	8.3	19.6
3 2	8 56.47	+25 23.4	1.958	2.841	11.0	15.3	3 2	8 56.85	- 2 34.8	1.698	2.601	11.1	19.7
3 12	8 51.40	+24 55.0	2.043	2.846	13.9	15.5	3 12	8 51.51	- 1 40.0	1.746	2.589	14.2	19.9
3994	Ayashi		2 6.4 125°90	1°7/ 5.1 18			503601	2016 <i>GQ</i> ₉₁		2 6.5 196°20	0°0/ 6.4 18		
1 2	9 44.76	+18 44.8	2.262	3.067	12.3	17.7	1 2	9 40.41	+12 37.4	2.116	2.918	13.1	21.4
1 12	9 39.05	+19 26.2	2.194	3.084	9.2	17.6	1 12	9 36.05	+13 15.3	2.031	2.918	10.0	21.2
1 22	9 31.35	+20 13.0	2.151	3.100	5.7	17.4	1 22	9 29.64	+14 4.9	1.969	2.917	6.3	21.0
2 1	9 22.28	+21 0.3	2.136	3.116	2.3	17.2	2 1	9 21.75	+15 2.1	1.935	2.916	2.3	20.7
2 11	9 12.76	+21 42.7	2.153	3.131	2.9	17.2	2 11	9 13.23	+16 1.5	1.931	2.915	1.9	20.7
2 21	9 3.74	+22 16.2	2.199	3.145	6.3	17.5	2 21	9 5.06	+16 57.6	1.956	2.913	6.0	20.9
3 2	8 56.09	+22 38.4	2.274	3.159	9.5	17.7	3 2	8 58.13	+17 45.9	2.009	2.912	9.7	21.2
3 12	8 50.45	+22 48.8	2.373	3.172	12.3	17.9	3 12	8 53.18	+18 23.6	2.086	2.910	12.9	21.4
246162	2007 <i>QR</i>		2 6.4 113°17	4°4/ 3.6 18			238728	2005 <i>GU</i> ₈₆		2 6.5 44°11	4°5/10.2 18		
1 2	9 52.44	+26 55.9	1.974	2.784	13.7	20.3	1 2	9 38.40	+ 0 32.4	2.065	2.825	14.8	20.5
1 12	9 45.05	+27 42.5	1.920	2.809	10.4	20.1	1 12	9 34.48	+ 0 30.2	1.984	2.832	12.0	20.3
1 22	9 35.16	+28 27.5	1.890	2.833	7.0	20.0	1 22	9 28.61	+ 0 46.7	1.924	2.839	8.9	20.1
2 1	9 23.63	+29 3.7	1.889	2.857	4.6	19.9	2 1	9 21.36	+ 1 21.5	1.890	2.846	5.9	19.9
2 11	9 11.70	+29 25.1	1.918	2.879	5.4	20.0	2 11	9 13.58	+ 2 11.7	1.884	2.853	4.6	19.8
2 21	9 0.62	+29 29.0	1.976	2.901	8.4	20.2	2 21	9 6.16	+ 3 12.3	1.906	2.861	6.3	20.0
3 2	8 51.47	+29 15.6	2.061	2.922	11.5	20.4	3 2	8 59.98	+ 4 17.5	1.956	2.869	9.3	20.2
3 12	8 44.94	+28 47.5	2.169	2.942	14.2	20.6	3 12	8 55.69	+ 5 21.5	2.030	2.876	12.4	20.4
435935	2009 <i>BF</i> ₁₇₁		2 6.4 309°81	1°3/ 5.7 17			285260	1998 <i>KY</i> ₄₂		2 6.5 308°11	10°6/24.6 17		
1 2	9 44.95	+19 53.0	2.076	2.888	13.0	20.8	1 2	9 45.00	+45 23.2	2.179	2.980	12.8	19.6
1 12	9 39.64	+19 47.2	1.976	2.869	9.9	20.5	1 12	9 40.60	+47 34.5	2.116	2.963	11.4	19.5
1 22	9 31.99	+19 44.4	1.900	2.851	6.3	20.3	1 22	9 33.11	+49 35.1	2.077	2.947	10.7	19.4
2 1	9 22.60	+19 41.1	1.852	2.833	2.4	20.0	2 1	9 23.16	+51 14.0	2.064	2.931	10.9	19.4
2 11	9 12.45	+19 33.5	1.834	2.815	2.6	19.9	2 11	9 11.98	+52 22.6	2.076	2.915	12.1	19.4
2 21	9 2.64	+19 19.0	1.844	2.797	6.7	20.2	2 21	9 1.12	+52 57.0	2.111	2.900	13.8	19.5
3 2	8 54.24	+18 56.4	1.883	2.780	10.6	20.4	3 2	8 52.13	+52 57.8	2.165	2.885	15.7	19.6
3 12	8 48.07	+18 25.7	1.945	2.763	14.0	20.5	3 12	8 46.16	+52 29.7	2.235	2.870	17.4	19.8
192239	2008 <i>DG</i> ₄₀		2 6.4 247°28	0°9/ 5.8 17			204324	2004 <i>RU</i> ₈₈		2 6.5 194°13	3°0/ 8.5 18		
1 2	9 43.78	+16 28.3	2.082	2.889	13.2	21.5	1 2	9 45.68	+ 5 54.8	2.009	2.781	14.8	21.6
1 12	9 38.77	+16 55.4	1.984	2.875	10.0	21.2	1 12	9 40.13	+ 5 54.5	1.916	2.778	11.7	21.3
1 22	9 31.46	+17 31.0	1.910	2.860	6.3	21.0	1 22	9 32.28	+ 6 9.5	1.845	2.776	8.2	21.1
2 1	9 22.42	+18 10.7	1.864	2.845	2.3	20.7	2 1	9 22.72	+ 6 38.5	1.802	2.772	4.5	20.9
2 11	9 12.59	+18 49.3	1.848	2.830	2.4	20.7	2 11	9 12.42	+ 7 18.0	1.788	2.767	3.2	20.8
2 21	9 3.03	+19 22.0	1.861	2.814	6.6	20.9	2 21	9 2.44	+ 8 3.5	1.804	2.762	6.3	21.0
3 2	8 54.79	+19 45.4	1.902	2.798	10.5	21.1	3 2	8 53.85	+ 8 49.9	1.848	2.755	10.1	21.2
3 12	8 48.70	+19 57.7	1.966	2.781	14.0	21.3	3 12	8 47.43	+ 9 32.5	1.917	2.748	13.6	21.4
131970	2002 <i>CW</i> ₅₃		2 6.4 285°74	1°2/ 7.1 18			336520	2008 <i>YJ</i> ₃₄		2 6.5 43°96	3°1/ 3.8 18		
1 2	9 42.94	+11 11.6	1.556	2.368	16.6	20.0	1 2	9 39.52	+19 38.0	1.848	2.675	13.7	20.3
1 12	9 38.85	+11 21.6	1.460	2.350	12.9	19.7	1 12	9 35.61	+21 5.0	1.789	2.691	10.2	20.1
1 22	9 31.90	+11 47.0	1.385	2.332	8.5	19.4	1 22	9 29.43	+22 39.5	1.754	2.708	6.4	19.9
2 1	9 22.68	+12 25.1	1.335	2.314	3.5	19.1	2 1	9 21.67	+24 13.6	1.747	2.724	3.3	19.7
2 11	9 12.34	+13 10.3	1.313	2.297	2.4	19.0	2 11	9 13.34	+25 38.7	1.769	2.741	4.4	19.8
2 21	9 2.27	+13 56.2	1.317	2.279	7.6	19.2	2 21	9 5.54	+26 48.2	1.820	2.759	7.9	20.1
3 2	8 53.87	+14 36.8	1.347	2.261	12.6	19.5	3 2	8 59.27	+27 38.5	1.896	2.777	11.4	20.3
3 12	8 48.21	+15 7.7	1.399	2.243	17.0	19.7	3 12	8 55.24	+28 9.1	1.995	2.794	14.4	20.5
324607	2006 <i>YF</i> ₁₆		2 6.4 39°00	2°9/ 4.4 18			417826	2007 <i>FR</i> ₃₈		2 6.5 319°44	5°2/ 2.6 18		
1 2	9 40.25	+16 43.1	1.333	2.172	17.3	19.8	1 2	9 40.05	+24 17.2	1.581	2.421	15.0	20.2
1 12	9 36.80	+18 17.2	1.283	2.191	12.9	19.6	1 12	9 36.82	+25 39.0	1.495	2.402	11.5	20.0
1 22	9 30.44	+20 4.5	1.254	2.211	7.9	19.4	1 22	9 30.69	+27 8.2	1.432	2.383	7.8	19.7
2 1	9 22.05	+21 54.6	1.251	2.232	3.4	19.2	2 1	9 22.27	+28 35.3	1.394	2.365	5.3	19.5
2 11	9 13.00	+23 35.4	1.276	2.253	4.6	19.3	2 11	9 12.74	+29 49.6	1.384	2.347	6.8	19.6
2 21	9 4.75	+24 57.3	1.326	2.275	9.2	19.6	2 21	9 3.55	+30 43.1	1.399	2.330	10.6	19.7
3 2	8 58.57	+25 55.5	1.401	2.297	13.5	19.9	3 2	8 56.11	+31 11.6	1.438	2.313	14.6	19.9
3 12	8 55.26	+26 29.4	1.496	2.320	17.1	20.2	3 12	8 51.53	+31 15.4	1.497	2.298	18.3	20.1
74491	1999 <i>CN</i> ₁₂₂		2 6.5 191°23	10°7/29.6 18			32206	2000 <i>OM</i> ₆		2 6.5 97°04	3°0/ 8.7 18		
1 2	9 56.63	+45 45.3	1.996	2.785	14.3	18.9	1 2	9 43.41	+ 5 22.7	2.055			

EPHEMERIDES

2 6.5

2 6.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
208989	2003 AC ₅₄		2 6.5	18°07'	2°8'	4.3 18	467572	2007 TL ₃₈₆		2 6.5	90°60'	6°3'	12.7 18
1 2	9 39.29	+20 29.2	1.840	2.669	13.7	19.6	1 2	9 39.54	- 7 7.4	2.501	3.203	14.0	21.2
1 12	9 35.49	+21 22.5	1.771	2.674	10.3	19.4	1 12	9 34.95	- 7 27.3	2.426	3.222	11.8	21.1
1 22	9 29.39	+22 21.9	1.726	2.680	6.5	19.2	1 22	9 28.73	- 7 27.7	2.372	3.242	9.5	21.0
2 1	9 21.67	+23 21.1	1.709	2.687	3.2	19.0	2 1	9 21.39	- 7 8.1	2.344	3.261	7.4	20.9
2 11	9 13.35	+24 13.1	1.719	2.694	4.1	19.1	2 11	9 13.67	- 6 29.8	2.342	3.280	6.3	20.8
2 21	9 5.53	+24 52.6	1.757	2.701	7.7	19.3	2 21	9 6.31	- 5 36.3	2.369	3.299	6.9	20.9
3 2	8 59.25	+25 16.6	1.820	2.710	11.3	19.6	3 2	9 0.02	- 4 32.5	2.424	3.318	8.7	21.0
3 12	8 55.22	+25 24.6	1.906	2.718	14.4	19.8	3 12	8 55.34	- 3 24.3	2.505	3.336	10.8	21.2
205370	2000 YM ₁₂₄		2 6.5	115°65'	3°4'	3.9 18	383780	2007 VB ₃₂₀		2 6.5	88°47'	2°3'	4.8 18
1 2	9 47.35	+21 34.4	1.875	2.691	14.0	20.5	1 2	9 44.52	+22 11.8	2.309	3.119	11.9	21.0
1 12	9 41.43	+22 46.6	1.817	2.712	10.5	20.3	1 12	9 38.85	+22 33.0	2.241	3.134	8.9	20.8
1 22	9 33.04	+24 3.6	1.783	2.732	6.7	20.1	1 22	9 31.22	+22 56.1	2.199	3.149	5.6	20.7
2 1	9 22.95	+25 17.4	1.777	2.752	3.6	20.0	2 1	9 22.29	+23 16.7	2.186	3.163	2.7	20.5
2 11	9 12.31	+26 20.3	1.801	2.771	4.6	20.1	2 11	9 12.96	+23 30.6	2.202	3.177	3.3	20.5
2 21	9 2.34	+27 6.8	1.854	2.789	8.1	20.3	2 21	9 4.17	+23 35.2	2.248	3.192	6.4	20.8
3 2	8 54.11	+27 34.9	1.934	2.807	11.6	20.6	3 2	8 56.76	+23 29.3	2.322	3.206	9.5	21.0
3 12	8 48.37	+27 45.1	2.036	2.823	14.5	20.8	3 12	8 51.35	+23 13.2	2.421	3.219	12.2	21.2
162599	2000 SR ₆₈		2 6.5	180°17'	2°7'	4.7 18	101961	1999 RL ₃₉		2 6.5	139°65'	3°3'	4.1 18
1 2	9 47.51	+20 56.4	1.917	2.730	13.9	21.4	1 2	9 49.01	+20 48.0	1.770	2.585	14.8	20.0
1 12	9 41.67	+21 38.8	1.838	2.732	10.5	21.2	1 12	9 42.91	+21 59.3	1.705	2.600	11.1	19.8
1 22	9 33.30	+22 26.4	1.783	2.733	6.7	20.9	1 22	9 34.11	+23 16.9	1.664	2.614	7.1	19.6
2 1	9 23.10	+23 13.0	1.755	2.733	3.2	20.7	2 1	9 23.41	+24 32.6	1.651	2.627	3.6	19.4
2 11	9 12.16	+23 51.9	1.758	2.733	3.9	20.8	2 11	9 12.02	+25 37.9	1.667	2.639	4.6	19.5
2 21	9 1.74	+24 18.3	1.789	2.732	7.7	21.0	2 21	9 1.28	+26 26.6	1.713	2.650	8.4	19.8
3 2	8 52.96	+24 29.9	1.847	2.730	11.5	21.2	3 2	8 52.40	+26 56.2	1.785	2.661	12.2	20.0
3 12	8 46.66	+24 26.9	1.928	2.728	14.8	21.4	3 12	8 46.20	+27 7.1	1.879	2.670	15.4	20.3
131907	2002 BG ₁₄		2 6.5	329°32'	1°2'	7.1 18	51890	2001 QH ₁₈		2 6.5	49°74'	5°9'	3.1 18
1 2	9 40.78	+11 53.6	1.266	2.097	18.6	18.7	1 2	9 51.21	+33 29.3	2.053	2.864	13.2	18.0
1 12	9 37.67	+11 54.8	1.183	2.083	14.4	18.4	1 12	9 44.22	+33 50.8	1.992	2.875	10.4	17.9
1 22	9 31.37	+12 12.6	1.119	2.071	9.5	18.0	1 22	9 34.70	+34 5.0	1.954	2.886	7.6	17.7
2 1	9 22.55	+12 44.0	1.079	2.059	3.9	17.7	2 1	9 23.54	+34 5.3	1.944	2.897	6.0	17.6
2 11	9 12.56	+13 22.9	1.063	2.047	2.7	17.6	2 11	9 11.99	+33 47.1	1.962	2.909	6.7	17.7
2 21	9 3.01	+14 2.2	1.073	2.037	8.5	17.9	2 21	9 1.33	+33 9.5	2.009	2.921	9.1	17.9
3 2	8 55.50	+14 35.4	1.106	2.028	13.9	18.1	3 2	8 52.61	+32 14.4	2.083	2.932	11.8	18.0
3 12	8 51.16	+14 57.9	1.158	2.019	18.7	18.4	3 12	8 46.51	+31 6.0	2.178	2.944	14.4	18.2
496813	2017 KT ₁₅		2 6.5	232°72'	7°7'	30.8 18	222303	2000 SG ₂₈₄		2 6.5	64°39'	1°6'	7.4 18
1 2	9 46.46	+32 26.5	1.877	2.700	13.7	21.2	1 2	9 44.98	+11 13.3	1.756	2.556	15.5	20.0
1 12	9 41.46	+34 17.0	1.802	2.692	10.9	21.0	1 12	9 39.63	+11 3.7	1.690	2.574	11.9	19.8
1 22	9 33.50	+36 6.4	1.753	2.682	8.5	20.8	1 22	9 31.90	+11 5.8	1.648	2.591	7.8	19.6
2 1	9 23.27	+37 43.6	1.730	2.672	7.7	20.8	2 1	9 22.58	+11 17.1	1.631	2.609	3.4	19.4
2 11	9 11.97	+38 58.3	1.736	2.662	9.1	20.8	2 11	9 12.76	+11 33.6	1.644	2.627	2.3	19.3
2 21	9 1.06	+39 44.5	1.768	2.652	11.7	21.0	2 21	9 3.60	+11 51.5	1.684	2.645	6.4	19.6
3 2	8 51.96	+40 1.0	1.823	2.641	14.7	21.1	3 2	8 56.12	+12 6.9	1.752	2.663	10.4	19.9
3 12	8 45.71	+39 50.9	1.897	2.629	17.3	21.3	3 12	8 51.04	+12 17.4	1.843	2.680	13.8	20.2
37842	1998 DT ₄		2 6.5	44°47'	0°8'	7.0 18	428841	2008 UG ₁₁		2 6.5	71°00'	2°4'	4.8 18
1 2	9 41.22	+10 3.7	1.403	2.222	17.8	18.4	1 2	9 43.57	+21 4.1	2.005	2.823	13.2	21.2
1 12	9 37.49	+10 45.5	1.334	2.228	13.6	18.2	1 12	9 38.52	+21 34.7	1.932	2.829	9.9	21.0
1 22	9 30.92	+11 47.0	1.287	2.236	8.8	17.9	1 22	9 31.21	+22 9.3	1.884	2.835	6.2	20.8
2 1	9 22.29	+13 2.8	1.263	2.243	3.5	17.6	2 1	9 22.35	+22 42.6	1.863	2.842	2.9	20.6
2 11	9 12.86	+14 24.3	1.267	2.251	2.4	17.5	2 11	9 12.93	+23 9.4	1.872	2.848	3.5	20.7
2 21	9 4.03	+15 42.4	1.297	2.259	7.7	17.9	2 21	9 4.03	+23 25.7	1.909	2.854	7.1	20.9
3 2	8 57.11	+16 49.6	1.353	2.268	12.5	18.2	3 2	8 56.66	+23 29.6	1.973	2.861	10.6	21.1
3 12	8 53.00	+17 41.3	1.430	2.276	16.6	18.5	3 12	8 51.51	+23 21.2	2.060	2.867	13.7	21.3
296827	2009 WM ₃₇		2 6.5	217°87'	0°0'	6.3 17	34228	2000 QF ₉₀		2 6.5	176°89'	0°3'	6.1 18
1 2	9 42.42	+14 11.3	2.115	2.918	13.1	21.6	1 2	9 41.41	+16 6.8	3.029	3.820	9.8	19.7
1 12	9 37.58	+14 28.7	2.028	2.915	10.0	21.4	1 12	9 36.17	+16 20.4	2.940	3.822	7.4	19.5
1 22	9 30.62	+14 55.2	1.964	2.912	6.3	21.2	1 22	9 29.43	+16 38.9	2.877	3.824	4.6	19.3
2 1	9 22.13	+15 27.4	1.928	2.908	2.3	20.9	2 1	9 21.66	+16 59.7	2.844	3.825	1.6	19.1
2 11	9 13.01	+16 0.8	1.921	2.905	1.9	20.9	2 11	9 13.49	+17 19.8	2.842	3.825	1.5	19.1
2 21	9 4.25	+16 31.1	1.944	2.901	6.0	21.1	2 21	9 5.60	+17 36.7	2.872	3.825	4.6	19.3
3 2	8 56.79	+16 55.0	1.995	2.897	9.8	21.3	3 2	8 58.64	+17 48.6	2.932	3.825	7.4	19.5
3 12	8 51.37	+17 10.2	2.069	2.893	13.0	21.5	3 12	8 53.12	+17 54.1	3.017	3.824	9.8	19.6
363155	2001 SP ₈₆		2 6.5	180°24'	3°5'	9.6 18	84038	2002 PQ ₅₀		2 6.5	120°74'	1°1'	7.2 18
1 2	9 40.83	+ 1 27.4	2.207	2.962	14.1	21.8	1 2	9 46.03	+ 9 22.4	1.602	2.401	16.8	20.1
1 12	9 36.27	+ 1 53.7	2.115	2.964	11.4	21.6	1 12	9 40.74	+10 1.7	1.534	2.417	12.9	19.9
1 22	9 29.76	+ 2 39.1	2.045	2.964	8.2	21.4	1 22	9 32.78	+10 58.6	1.488	2.432	8.4	19.7
2 1	9 21.82	+ 3 41.9	2.002	2.964	5.0	21.2	2 1	9 22.95	+12 8.2	1.468	2.447	3.4	19.4
2 11	9 13.27	+ 4 58.2	1.989	2.964	3.6	21.1	2 11	9 12.45	+13 23.0	1.477	2.461	2.3	19.4
2 21	9 5.00	+ 6 22.1	2.006	2.963	5.8	21.2	2 21	9 2.58	+14 35.2	1.515	2.474	7.0	19.7
3 2	8 57.90	+ 7 47.2	2.052	2.962	9.1	21.4	3 2	8 54.53	+15 38.3	1.579	2.487	11.5	20.0
3 12	8 52.66	+ 9 7.5	2.124	2.960	12.3	21.6	3 12	8 49.13	+16 28.3	1.666	2.499	15.2	20.2
142304	2002 RZ ₁₅₄		2 6.5	44°22'	2°1'	5.0 18	295993	2008 YY ₈₉		2 6.5	113°46'	0°7'	6.9 18
1 2	9 41.22	+15 28.1	1.345	2.179	17.5	19.3	1 2	9 45.42	+11 51.3	1.632	2.439	16.2	21.7
1 12	9 37.49	+16 48.3	1.294	2.19									

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
54920	2001 <i>OJ</i> ₉₅		2 6.5 132°09	0°8/ 5.8 18			369726	2012 <i>DL</i> ₈₂		2 6.5 225°17	0°8/ 5.8 17		
1 2	9 41.15	+16 24.2	2.655	3.454	10.9	20.4	1 2	9 42.48	+15 29.0	2.163	2.968	12.8	21.5
1 12	9 36.14	+16 56.6	2.579	3.466	8.1	20.2	1 12	9 37.70	+16 10.2	2.070	2.960	9.7	21.3
1 22	9 29.48	+17 34.9	2.529	3.477	5.1	20.0	1 22	9 30.78	+17 1.0	2.001	2.951	6.1	21.0
2 1	9 21.69	+18 15.6	2.507	3.488	1.8	19.8	2 1	9 22.27	+17 56.9	1.961	2.942	2.2	20.8
2 11	9 13.50	+18 54.7	2.517	3.499	1.9	19.9	2 11	9 13.04	+18 52.3	1.950	2.932	2.3	20.7
2 21	9 5.66	+19 28.7	2.557	3.509	5.2	20.1	2 21	9 4.09	+19 41.9	1.970	2.922	6.3	21.0
3 2	8 58.89	+19 55.0	2.627	3.518	8.2	20.3	3 2	8 56.39	+20 21.7	2.017	2.912	10.1	21.2
3 12	8 53.75	+20 12.4	2.721	3.528	10.7	20.5	3 12	8 50.71	+20 49.5	2.088	2.901	13.3	21.4
366888	2005 <i>TX</i> ₅₈		2 6.5 72°45	2°5/ 4.8 18			82219	2001 <i>HA</i> ₅₅		2 6.5 146°15	4°5/ 10.6 18		
1 2	9 44.22	+20 7.0	1.767	2.589	14.5	21.0	1 2	9 42.50	- 1 28.4	2.421	3.152	13.7	20.0
1 12	9 39.22	+20 49.1	1.703	2.602	10.9	20.8	1 12	9 37.28	- 1 23.3	2.337	3.165	11.2	19.8
1 22	9 31.74	+21 37.0	1.663	2.615	6.8	20.6	1 22	9 30.27	- 1 0.4	2.275	3.177	8.4	19.7
2 1	9 22.56	+22 24.3	1.650	2.628	3.1	20.4	2 1	9 22.03	- 0 20.2	2.240	3.188	5.8	19.5
2 11	9 12.81	+23 4.4	1.665	2.642	3.8	20.5	2 11	9 13.30	+ 0 34.5	2.235	3.199	4.5	19.5
2 21	9 3.70	+23 32.4	1.708	2.655	7.7	20.7	2 21	9 4.92	+ 1 39.4	2.260	3.209	5.9	19.6
3 2	8 56.32	+23 46.0	1.777	2.668	11.5	21.0	3 2	8 57.66	+ 2 49.0	2.314	3.218	8.5	19.7
3 12	8 51.41	+23 45.2	1.869	2.681	14.7	21.2	3 12	8 52.13	+ 3 58.1	2.394	3.226	11.2	19.9
187153	2005 <i>QS</i> ₁₈₂		2 6.5 323°51	0°4/ 6.3 18			84934	2003 <i>WH</i> ₈₃		2 6.5 51°95	1°9/ 7.6 18		
1 2	9 42.35	+15 54.2	1.489	2.316	16.4	19.5	1 2	9 45.84	+10 51.2	1.785	2.582	15.4	18.8
1 12	9 38.51	+15 58.9	1.399	2.300	12.6	19.2	1 12	9 40.13	+10 29.1	1.727	2.607	11.9	18.6
1 22	9 31.73	+16 13.8	1.332	2.285	8.0	18.9	1 22	9 32.15	+10 18.2	1.692	2.633	7.8	18.4
2 1	9 22.70	+16 34.9	1.289	2.270	2.9	18.5	2 1	9 22.68	+10 16.6	1.683	2.659	3.6	18.2
2 11	9 12.61	+16 56.4	1.272	2.256	2.6	18.5	2 11	9 12.83	+10 21.2	1.703	2.685	2.5	18.2
2 21	9 2.93	+17 12.9	1.282	2.243	8.0	18.8	2 21	9 3.72	+10 28.6	1.752	2.712	6.2	18.5
3 2	8 55.07	+17 20.7	1.317	2.230	12.9	19.0	3 2	8 56.32	+10 35.7	1.828	2.738	10.0	18.7
3 12	8 50.06	+17 17.6	1.373	2.218	17.2	19.2	3 12	8 51.25	+10 39.7	1.928	2.765	13.3	19.0
387140	2012 <i>TZ</i> ₁₉₉		2 6.5 139°07	3°4/ 9.5 18			282975	2007 <i>TS</i> ₁₄		2 6.5 85°72	4°2/ 9.9 18		
1 2	9 39.17	+ 2 50.9	2.609	3.365	12.2	21.2	1 2	9 40.81	+ 1 30.7	2.353	3.105	13.5	20.3
1 12	9 34.69	+ 2 46.7	2.522	3.370	9.8	21.1	1 12	9 36.00	+ 1 14.9	2.278	3.122	10.9	20.1
1 22	9 28.60	+ 2 56.0	2.457	3.375	7.1	20.9	1 22	9 29.45	+ 1 14.3	2.226	3.138	8.0	20.0
2 1	9 21.40	+ 3 17.9	2.420	3.380	4.5	20.8	2 1	9 21.72	+ 1 28.5	2.200	3.155	5.3	19.8
2 11	9 13.75	+ 3 50.4	2.413	3.384	3.4	20.7	2 11	9 13.58	+ 1 55.3	2.203	3.171	4.2	19.8
2 21	9 6.39	+ 4 30.1	2.435	3.389	5.2	20.8	2 21	9 5.83	+ 2 31.2	2.236	3.187	5.8	19.9
3 2	9 0.01	+ 5 13.0	2.486	3.393	7.9	21.0	3 2	8 59.23	+ 3 12.1	2.297	3.204	8.5	20.1
3 12	8 55.16	+ 5 55.4	2.563	3.398	10.5	21.2	3 12	8 54.35	+ 3 53.6	2.383	3.219	11.1	20.3
462886	2010 <i>VD</i> ₂₁₈		2 6.5 111°85	1°5/ 5.5 18			155425	1997 <i>ER</i> ₆		2 6.5 244°90	3°8/ 9.4 18		
1 2	9 45.62	+18 0.8	1.879	2.691	14.2	22.2	1 2	9 40.33	+ 3 3.0	2.107	2.874	14.4	20.5
1 12	9 40.13	+18 30.1	1.809	2.703	10.6	22.0	1 12	9 36.04	+ 2 58.7	2.013	2.869	11.6	20.3
1 22	9 32.26	+19 6.3	1.764	2.715	6.6	21.8	1 22	9 29.71	+ 3 10.9	1.942	2.864	8.4	20.1
2 1	9 22.74	+19 44.1	1.745	2.726	2.5	21.6	2 1	9 21.88	+ 3 39.2	1.896	2.859	5.2	19.9
2 11	9 12.67	+20 17.8	1.757	2.737	2.9	21.6	2 11	9 13.40	+ 4 20.8	1.879	2.853	3.9	19.8
2 21	9 3.19	+20 42.9	1.797	2.748	7.0	21.9	2 21	9 5.19	+ 5 11.3	1.891	2.848	6.2	19.9
3 2	8 55.34	+20 56.8	1.864	2.759	10.8	22.1	3 2	8 58.19	+ 6 5.6	1.930	2.842	9.5	20.1
3 12	8 49.87	+20 59.0	1.954	2.769	14.0	22.4	3 12	8 53.10	+ 6 58.4	1.994	2.836	12.7	20.3
99975	1981 <i>EP</i> ₆		2 6.5 312°15	3°0/ 4.6 18			256217	2006 <i>VF</i> ₁₂₃		2 6.5 35°18	0°9/ 5.9 18		
1 2	9 46.24	+24 54.6	2.177	2.990	12.4	19.2	1 2	9 43.62	+16 27.2	1.553	2.376	16.1	20.1
1 12	9 40.50	+25 1.7	2.088	2.981	9.5	19.0	1 12	9 39.10	+16 47.5	1.483	2.382	12.2	19.9
1 22	9 32.48	+25 8.5	2.023	2.971	6.2	18.8	1 22	9 31.86	+17 17.5	1.436	2.389	7.6	19.6
2 1	9 22.84	+25 10.1	1.987	2.962	3.4	18.6	2 1	9 22.68	+17 52.0	1.414	2.396	2.7	19.3
2 11	9 12.57	+25 2.5	1.980	2.952	4.0	18.6	2 11	9 12.80	+18 24.7	1.420	2.403	2.8	19.4
2 21	9 2.77	+24 43.2	2.002	2.943	7.2	18.8	2 21	9 3.57	+18 50.1	1.453	2.410	7.6	19.7
3 2	8 54.44	+24 12.0	2.052	2.934	10.6	19.0	3 2	8 56.20	+19 4.8	1.512	2.418	12.0	19.9
3 12	8 48.34	+23 30.2	2.126	2.926	13.6	19.2	3 12	8 51.52	+19 7.6	1.592	2.426	15.8	20.2
46314	2001 <i>QK</i> ₂₉		2 6.5 102°75	1°3/ 5.7 18			321537	2009 <i>SF</i> ₂₇₁		2 6.5 208°44	5°1/ 2.6 18		
1 2	9 48.10	+16 39.4	1.577	2.393	16.3	19.1	1 2	9 47.90	+30 2.2	2.298	3.108	11.9	21.1
1 12	9 42.32	+17 12.7	1.516	2.411	12.2	18.8	1 12	9 41.78	+30 51.1	2.216	3.103	9.3	20.9
1 22	9 33.77	+17 55.5	1.477	2.428	7.6	18.6	1 22	9 33.32	+31 37.7	2.160	3.097	6.7	20.7
2 1	9 23.31	+18 41.5	1.465	2.446	2.8	18.4	2 1	9 23.18	+32 15.2	2.133	3.091	5.1	20.6
2 11	9 12.25	+19 23.7	1.481	2.462	3.0	18.4	2 11	9 12.38	+32 38.0	2.135	3.084	6.0	20.7
2 21	9 1.98	+19 56.5	1.525	2.479	7.7	18.7	2 21	9 2.03	+32 42.7	2.165	3.077	8.5	20.8
3 2	8 53.70	+20 16.7	1.595	2.494	12.0	19.0	3 2	8 53.19	+32 28.9	2.223	3.069	11.3	21.0
3 12	8 48.22	+20 23.5	1.688	2.510	15.6	19.3	3 12	8 46.63	+31 58.7	2.302	3.061	13.9	21.1
464258	2015 <i>FB</i> ₂		2 6.5 71°42	4°4/ 2.7 18			428834	2008 <i>TF</i> ₁₇₅		2 6.5 105°56	3°3/ 9.0 15		
1 2	9 41.96	+25 40.2	2.074	2.898	12.5	20.8	1 2	9 41.91	+ 4 34.2	2.247	3.014	13.6	22.4
1 12	9 37.38	+26 51.4	2.007	2.905	9.5	20.7	1 12	9 36.94	+ 4 24.4	2.169	3.026	10.8	22.3
1 22	9 30.56	+28 4.4	1.966	2.913	6.4	20.5	1 22	9 30.10	+ 4 28.5	2.114	3.039	7.6	22.1
2 1	9 22.16	+29 11.8	1.953	2.920	4.5	20.4	2 1	9 21.98	+ 4 45.6	2.086	3.051	4.6	21.9
2 11	9 13.16	+30 6.7	1.968	2.927	5.5	20.4	2 11	9 13.39	+ 5 13.2	2.087	3.063	3.4	21.9
2 21	9 4.65	+30 44.5	2.012	2.935	8.4	20.6	2 21	9 5.21	+ 5 47.5	2.118	3.074	5.6	22.0
3 2	8 57.61	+31 3.3	2.081	2.942	11.4	20.8	3 2	8 58.24	+ 6 24.4	2.177	3.086	8.7	22.2
3 12	8 52.77	+31 4.1	2.172	2.950	14.0	21.0	3 12	8 53.11	+ 6 59.8	2.261	3.097	11.6	22.4
238427	2004 <i>GZ</i> ₃₆		2 6.5 201°70	7°4/ 15.3 18			522364	2016 <i>CV</i> ₃₀₀		2 6.5 27°08	4°3/ 9.5 18		
1 2	9 37.97	-15 55.0	3.259	3.881	12.3	20.9	1 2	9 38.11	+ 2				

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
41602	2000 SA ₈₁		2 6.5	23°80	3°8/ 4.5	18	461032	2014 WM ₄₈₂		2 6.5	85°71	0°5/ 6.8	18
1 2	9 43.38	+21 5.4	1.212	2.059	18.2	18.7	1 2	9 43.97	+13 28.7	1.859	2.665	14.6	21.0
1 12	9 39.65	+21 55.5	1.153	2.065	13.7	18.5	1 12	9 38.95	+13 34.7	1.782	2.670	11.1	20.8
1 22	9 32.53	+22 53.6	1.116	2.072	8.7	18.2	1 22	9 31.59	+13 50.8	1.728	2.676	7.1	20.5
2 1	9 22.99	+23 50.1	1.102	2.080	4.3	18.0	2 1	9 22.59	+14 13.5	1.701	2.681	2.7	20.3
2 11	9 12.60	+24 35.1	1.113	2.089	5.4	18.1	2 11	9 12.96	+14 38.5	1.703	2.687	2.0	20.2
2 21	9 3.10	+25 1.7	1.149	2.098	10.2	18.4	2 21	9 3.85	+15 1.4	1.733	2.692	6.4	20.5
3 2	8 56.00	+25 7.3	1.207	2.109	14.8	18.7	3 2	8 56.28	+15 18.9	1.790	2.698	10.4	20.8
3 12	8 52.23	+24 53.2	1.285	2.120	18.8	18.9	3 12	8 51.01	+15 28.7	1.871	2.703	13.9	21.0
462047	2007 DC ₉₂		2 6.5	217°46	2°1/ 5.1	17	114402	2002 YW ₁₇		2 6.5	53°82	0°2/ 6.6	18
1 2	9 45.53	+20 46.5	2.148	2.958	12.7	21.9	1 2	9 42.62	+13 1.7	1.622	2.437	15.9	20.0
1 12	9 39.99	+21 10.1	2.061	2.953	9.6	21.7	1 12	9 38.23	+13 26.3	1.551	2.445	12.1	19.8
1 22	9 32.20	+21 37.7	1.998	2.948	6.1	21.4	1 22	9 31.27	+14 3.9	1.503	2.453	7.7	19.6
2 1	9 22.79	+22 4.5	1.963	2.942	2.7	21.2	2 1	9 22.49	+14 50.0	1.480	2.461	2.8	19.3
2 11	9 12.73	+22 25.5	1.959	2.936	3.2	21.2	2 11	9 13.04	+15 38.2	1.486	2.470	2.2	19.3
2 21	9 3.06	+22 37.1	1.983	2.930	6.8	21.4	2 21	9 4.17	+16 22.5	1.519	2.479	7.0	19.6
3 2	8 54.81	+22 37.4	2.036	2.923	10.4	21.6	3 2	8 57.02	+16 58.1	1.578	2.487	11.4	19.9
3 12	8 48.72	+22 26.2	2.112	2.916	13.5	21.8	3 12	8 52.40	+17 22.2	1.659	2.497	15.1	20.1
306266	2011 RB ₁₂		2 6.5	99°32	3°1/ 8.5	18	330377	2006 WJ ₁₉₄		2 6.5	347°55	1°7/ 5.4	18
1 2	9 42.66	+5 36.9	1.546	2.340	17.5	20.7	1 2	9 38.56	+16 3.9	1.403	2.241	16.7	20.0
1 12	9 38.39	+5 49.7	1.469	2.345	13.8	20.5	1 12	9 35.72	+16 53.5	1.326	2.233	12.7	19.7
1 22	9 31.46	+6 23.4	1.414	2.350	9.5	20.2	1 22	9 30.02	+17 57.2	1.271	2.227	7.9	19.4
2 1	9 22.58	+7 15.6	1.383	2.355	5.1	20.0	2 1	9 22.13	+19 8.5	1.239	2.221	3.0	19.1
2 11	9 12.91	+8 20.8	1.379	2.360	3.4	19.9	2 11	9 13.30	+20 18.1	1.235	2.216	3.5	19.1
2 21	9 3.75	+9 31.4	1.403	2.365	7.2	20.1	2 21	9 4.96	+21 17.5	1.256	2.212	8.6	19.4
3 2	8 56.32	+10 40.0	1.453	2.370	11.6	20.4	3 2	8 58.46	+22 0.9	1.301	2.209	13.4	19.7
3 12	8 51.51	+11 40.2	1.525	2.374	15.6	20.6	3 12	8 54.80	+22 25.6	1.366	2.207	17.5	19.9
433577	2013 YG ₂₉		2 6.5	125°31	5°0/ 1.3	18	51074	2000 GT ₁₆₁		2 6.5	177°11	2°7/ 3.8	18
1 2	9 40.96	+28 23.1	2.423	3.243	11.1	21.0	1 2	9 40.89	+22 15.0	2.616	3.428	10.6	19.6
1 12	9 36.48	+29 54.3	2.354	3.247	8.5	20.8	1 12	9 36.17	+23 15.7	2.536	3.429	8.0	19.5
1 22	9 29.97	+31 25.8	2.311	3.250	6.1	20.7	1 22	9 29.66	+24 20.1	2.482	3.430	5.1	19.3
2 1	9 21.99	+32 50.3	2.297	3.253	5.0	20.6	2 1	9 21.87	+25 23.0	2.457	3.431	2.9	19.1
2 11	9 13.40	+34 1.1	2.313	3.257	6.0	20.7	2 11	9 13.56	+26 19.0	2.463	3.431	3.7	19.2
2 21	9 5.14	+34 53.7	2.358	3.260	8.4	20.8	2 21	9 5.54	+27 4.1	2.499	3.431	6.4	19.4
3 2	8 58.12	+35 26.2	2.428	3.263	10.9	21.0	3 2	8 58.60	+27 35.7	2.562	3.431	9.2	19.5
3 12	8 53.05	+35 39.4	2.520	3.266	13.1	21.1	3 12	8 53.37	+27 53.4	2.650	3.431	11.7	19.7
337580	2001 SU ₃₂₅		2 6.5	156°24	1°5/ 7.9	17	316638	2011 YA ₂		2 6.5	121°73	1°3/ 7.5	18
1 2	9 41.54	+9 16.6	3.053	3.822	10.3	21.8	1 2	9 43.43	+8 58.0	1.773	2.569	15.6	21.2
1 12	9 36.22	+9 16.3	2.966	3.830	8.0	21.6	1 12	9 38.63	+9 32.4	1.699	2.580	12.0	21.0
1 22	9 29.47	+9 24.0	2.904	3.838	5.3	21.5	1 22	9 31.44	+10 23.2	1.648	2.590	7.8	20.8
2 1	9 21.74	+9 38.3	2.871	3.845	2.6	21.3	2 1	9 22.56	+11 26.3	1.623	2.601	3.4	20.6
2 11	9 13.64	+9 56.9	2.870	3.851	1.8	21.2	2 11	9 13.02	+12 35.6	1.627	2.611	2.1	20.5
2 21	9 5.83	+10 17.4	2.900	3.857	4.3	21.4	2 21	9 3.99	+13 43.9	1.660	2.620	6.5	20.8
3 2	8 58.90	+10 37.3	2.961	3.863	7.0	21.6	3 2	8 56.53	+14 45.5	1.720	2.629	10.6	21.0
3 12	8 53.37	+10 54.5	3.048	3.868	9.4	21.8	3 12	8 51.42	+15 36.0	1.804	2.638	14.2	21.3
90185	2003 AC ₃₆		2 6.5	0°73	0°3/ 6.7	18	384134	2008 YS ₈₇		2 6.5	102°08	2°6/ 8.6	18
1 2	9 39.61	+12 18.6	1.430	2.256	17.1	19.0	1 2	9 41.97	+6 24.0	2.390	3.160	12.8	20.7
1 12	9 36.35	+12 48.2	1.355	2.254	13.1	18.8	1 12	9 36.87	+6 15.8	2.313	3.175	10.0	20.6
1 22	9 30.31	+13 34.0	1.302	2.254	8.4	18.5	1 22	9 30.02	+6 19.5	2.261	3.190	6.9	20.4
2 1	9 22.20	+14 31.4	1.273	2.253	3.1	18.2	2 1	9 21.98	+6 33.9	2.235	3.204	3.9	20.2
2 11	9 13.23	+15 32.9	1.270	2.254	2.4	18.1	2 11	9 13.51	+6 56.5	2.240	3.218	2.8	20.2
2 21	9 4.80	+16 30.7	1.293	2.255	7.7	18.5	2 21	9 5.45	+7 23.9	2.274	3.232	5.2	20.4
3 2	8 58.18	+17 18.5	1.342	2.258	12.5	18.8	3 2	8 58.55	+7 52.6	2.337	3.245	8.3	20.6
3 12	8 54.31	+17 52.4	1.411	2.260	16.6	19.0	3 12	8 53.39	+8 19.4	2.426	3.259	11.1	20.8
21796	1999 SH ₁₁		2 6.5	206°19	3°4/ 3.4	18	78107	2002 LC ₅₁		2 6.5	101°65	4°5/ 10.3	18
1 2	9 43.39	+24 28.7	2.473	3.286	11.2	19.7	1 2	9 40.24	+0 6.5	2.294	3.041	13.9	19.2
1 12	9 38.21	+25 26.3	2.388	3.281	8.5	19.6	1 12	9 35.70	+0 3.2	2.213	3.053	11.3	19.0
1 22	9 31.02	+26 26.3	2.329	3.275	5.6	19.4	1 22	9 29.35	+0 4.0	2.155	3.064	8.4	18.9
2 1	9 22.37	+27 23.0	2.299	3.269	3.5	19.2	2 1	9 21.76	+0 27.7	2.123	3.075	5.7	18.7
2 11	9 13.10	+28 10.8	2.299	3.263	4.4	19.3	2 11	9 13.70	+1 5.6	2.120	3.086	4.5	18.7
2 21	9 4.14	+28 45.4	2.328	3.256	7.2	19.4	2 21	9 5.99	+1 53.9	2.145	3.096	6.0	18.8
3 2	8 56.37	+29 4.7	2.386	3.248	10.1	19.6	3 2	8 59.43	+2 47.5	2.199	3.107	8.7	19.0
3 12	8 50.52	+29 9.1	2.466	3.240	12.7	19.8	3 12	8 54.62	+3 41.6	2.278	3.117	11.5	19.2
200907	2002 AR ₅₃		2 6.5	308°40	0°8/ 6.9	18	310399	1999 CC ₇		2 6.5	316°11	5°2/ 5.9	18
1 2	9 42.59	+12 23.7	1.393	2.216	17.6	20.4	1 2	10 3.66	+28 58.9	0.955	1.795	22.5	19.4
1 12	9 38.88	+12 32.9	1.306	2.203	13.7	20.1	1 12	9 56.70	+28 16.5	0.877	1.781	17.8	19.1
1 22	9 32.10	+12 57.5	1.239	2.189	8.9	19.8	1 22	9 44.26	+27 21.2	0.817	1.768	12.1	18.7
2 1	9 22.92	+13 34.2	1.196	2.177	3.5	19.4	2 1	9 27.50	+26 2.3	0.779	1.756	6.4	18.4
2 11	9 12.60	+14 16.6	1.180	2.164	2.5	19.3	2 11	9 9.01	+24 13.3	0.766	1.744	6.6	18.3
2 21	9 2.67	+14 57.9	1.189	2.152	8.1	19.6	2 21	8 51.91	+21 57.9	0.778	1.733	12.6	18.6
3 2	8 54.62	+15 32.0	1.223	2.140	13.4	19.9	3 2	8 38.85	+19 27.6	0.812	1.723	19.0	18.9
3 12	8 49.58	+15 54.9	1.278	2.129	17.9	20.1	3 12	8 31.16	+16 55.0	0.865	1.713	24.5	19.2
80543	2000 AO ₈₄		2 6.5	83°66	0°7/ 6.1	18	52157	4126 T ₋₁		2 6.5	47°21	2°7/ 4.6	18
1 2	9 44.75	+13 21.5	1.359	2.182	18.0	19.2	1 2	9 42.51	+21 45.5	1.977	2.799	13.2	18.9
1 12	9 40.26	+14 14.9	1.297	2.195	13								

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
384868	2012 <i>SO</i> ₃₄		2 6.5 102°78	1°1/ 5.6 18			16385	1981 <i>EQ</i> ₃₂		2 6.5 155°76	2°9/ 9.2 18		
1 2	9 41.99	+17 51.4	2.479	3.283	11.4	22.4	1 2	9 42.25	+ 3 43.6	2.684	3.435	12.0	19.6
1 12	9 36.89	+18 16.7	2.407	3.296	8.5	22.2	1 12	9 36.97	+ 3 48.3	2.597	3.445	9.5	19.5
1 22	9 30.04	+18 47.1	2.360	3.310	5.3	22.0	1 22	9 30.06	+ 4 6.0	2.534	3.454	6.8	19.3
2 1	9 21.99	+19 18.7	2.343	3.323	2.0	21.8	2 1	9 22.02	+ 4 35.4	2.499	3.462	4.1	19.2
2 11	9 13.54	+19 47.7	2.356	3.336	2.2	21.8	2 11	9 13.55	+ 5 14.0	2.495	3.470	3.0	19.1
2 21	9 5.52	+20 10.7	2.399	3.349	5.5	22.1	2 21	9 5.37	+ 5 58.3	2.522	3.477	5.0	19.2
3 2	8 58.67	+20 25.5	2.470	3.362	8.6	22.3	3 2	8 58.20	+ 6 44.4	2.578	3.483	7.7	19.4
3 12	8 53.59	+20 31.2	2.566	3.374	11.3	22.5	3 12	8 52.60	+ 7 28.5	2.661	3.488	10.4	19.6
18703	1998 <i>HN</i> ₆₈		2 6.5 213°89	0°9/ 7.3 18			447001	2004 <i>BH</i> ₁₆₀		2 6.5 102°27	1°1/ 5.9 18		
1 2	9 39.65	+11 4.5	2.759	3.544	10.9	19.4	1 2	9 49.37	+16 34.7	1.438	2.257	17.4	22.1
1 12	9 35.07	+11 16.5	2.664	3.539	8.4	19.3	1 12	9 43.58	+16 59.4	1.376	2.272	13.1	21.8
1 22	9 28.90	+11 37.0	2.593	3.535	5.4	19.1	1 22	9 34.75	+17 34.2	1.335	2.287	8.2	21.6
2 1	9 21.60	+12 4.2	2.552	3.530	2.3	18.8	2 1	9 23.79	+18 12.9	1.321	2.302	2.9	21.3
2 11	9 13.83	+12 34.8	2.541	3.524	1.5	18.8	2 11	9 12.16	+18 48.2	1.334	2.317	3.0	21.4
2 21	9 6.29	+13 5.9	2.560	3.519	4.6	19.0	2 21	9 1.38	+19 14.3	1.375	2.331	8.1	21.7
3 2	8 59.69	+13 34.3	2.609	3.513	7.7	19.2	3 2	8 52.80	+19 28.2	1.441	2.344	12.7	22.0
3 12	8 54.57	+13 57.8	2.684	3.507	10.4	19.3	3 12	8 47.27	+19 29.1	1.529	2.357	16.6	22.3
183345	2002 <i>VB</i> ₁₀₀		2 6.5 80°14	1°1/ 7.2 18			432165	2009 <i>BK</i> ₁₇₁		2 6.5 1°94	1°0/ 5.8 15		
1 2	9 44.74	+11 12.2	1.704	2.507	15.8	20.2	1 2	9 39.65	+16 32.5	1.912	2.731	13.7	21.4
1 12	9 39.59	+11 25.8	1.640	2.525	12.1	20.0	1 12	9 35.75	+17 1.2	1.833	2.731	10.3	21.2
1 22	9 31.99	+11 52.6	1.599	2.544	7.8	19.8	1 22	9 29.64	+17 38.5	1.778	2.730	6.5	20.9
2 1	9 22.74	+12 28.8	1.583	2.562	3.2	19.6	2 1	9 21.95	+18 19.9	1.749	2.731	2.3	20.7
2 11	9 12.95	+13 9.2	1.596	2.580	2.1	19.5	2 11	9 13.63	+18 59.8	1.749	2.732	2.5	20.7
2 21	9 3.82	+13 48.3	1.638	2.598	6.5	19.8	2 21	9 5.73	+19 33.4	1.778	2.733	6.6	20.9
3 2	8 56.40	+14 21.6	1.706	2.616	10.7	20.1	3 2	8 59.25	+19 57.1	1.832	2.735	10.5	21.2
3 12	8 51.42	+14 46.3	1.798	2.634	14.2	20.4	3 12	8 54.93	+20 9.2	1.910	2.737	13.8	21.4
397823	2008 <i>SD</i> ₁₁₉		2 6.5 153°85	3°0/ 4.7 18			48279	2002 <i>EK</i> ₇₂		2 6.5 98°78	1°2/ 7.5 18		
1 2	9 48.86	+21 9.7	1.726	2.543	15.0	21.9	1 2	9 41.63	+ 9 49.6	2.031	2.825	13.9	19.8
1 12	9 42.94	+21 54.4	1.654	2.550	11.3	21.7	1 12	9 37.00	+10 11.8	1.956	2.836	10.7	19.6
1 22	9 34.26	+22 44.5	1.606	2.557	7.2	21.5	1 22	9 30.30	+10 47.0	1.904	2.846	7.0	19.4
2 1	9 23.61	+23 32.8	1.585	2.562	3.5	21.3	2 1	9 22.16	+11 32.0	1.879	2.857	3.0	19.2
2 11	9 12.22	+24 12.2	1.593	2.568	4.3	21.3	2 11	9 13.48	+12 22.0	1.884	2.867	1.9	19.1
2 21	9 1.47	+24 37.3	1.629	2.573	8.3	21.6	2 21	9 5.25	+13 12.0	1.917	2.878	5.8	19.4
3 2	8 52.60	+24 46.2	1.692	2.577	12.3	21.8	3 2	8 58.36	+13 57.2	1.979	2.888	9.5	19.6
3 12	8 46.46	+24 39.4	1.776	2.580	15.7	22.1	3 12	8 53.50	+14 34.4	2.065	2.898	12.7	19.8
96068	4819 <i>P-L</i>		2 6.5 228°94	1°8/ 8.4 18			199812	2007 <i>DE</i> ₁₇		2 6.5 199°43	1°3/ 5.6 18		
1 2	9 37.32	+ 6 36.2	2.955	3.725	10.6	20.2	1 2	9 46.62	+15 58.1	1.792	2.601	14.9	21.4
1 12	9 33.25	+ 6 56.5	2.855	3.718	8.3	20.0	1 12	9 41.29	+16 45.7	1.706	2.598	11.3	21.1
1 22	9 27.73	+ 7 27.9	2.779	3.710	5.7	19.8	1 22	9 33.31	+17 44.7	1.643	2.594	7.1	20.9
2 1	9 21.19	+ 8 8.7	2.732	3.703	3.0	19.6	2 1	9 23.33	+18 49.0	1.608	2.589	2.6	20.6
2 11	9 14.19	+ 8 56.2	2.715	3.695	2.0	19.5	2 11	9 12.48	+19 51.4	1.602	2.584	2.9	20.6
2 21	9 7.38	+ 9 46.8	2.729	3.687	4.4	19.7	2 21	9 2.01	+20 45.1	1.626	2.577	7.5	20.9
3 2	9 1.37	+10 37.0	2.772	3.679	7.2	19.9	3 2	8 53.17	+21 25.4	1.676	2.570	11.8	21.1
3 12	8 56.69	+11 23.4	2.842	3.671	9.7	20.0	3 12	8 46.88	+21 50.7	1.749	2.563	15.5	21.3
133395	2003 <i>SB</i> ₁₆₃		2 6.5 60°61	0°3/ 6.8 18			289828	2005 <i>LT</i> ₄		2 6.5 86°60	3°5/ 3.3 18		
1 2	9 40.67	+12 34.7	2.035	2.839	13.5	20.3	1 2	9 41.38	+23 45.6	2.289	3.107	11.7	20.4
1 12	9 36.34	+13 0.7	1.955	2.842	10.3	20.1	1 12	9 36.73	+24 52.0	2.224	3.120	8.8	20.2
1 22	9 29.92	+13 37.9	1.898	2.846	6.6	19.9	1 22	9 30.09	+26 0.9	2.184	3.132	5.8	20.0
2 1	9 22.02	+14 22.5	1.869	2.849	2.5	19.6	2 1	9 22.07	+27 6.2	2.173	3.145	3.6	19.9
2 11	9 13.53	+15 9.7	1.869	2.853	1.8	19.6	2 11	9 13.56	+28 1.6	2.192	3.157	4.5	20.0
2 21	9 5.43	+15 54.3	1.898	2.857	6.0	19.8	2 21	9 5.49	+28 43.1	2.240	3.169	7.3	20.2
3 2	8 58.66	+16 32.3	1.954	2.860	9.7	20.1	3 2	8 58.72	+29 8.5	2.315	3.182	10.2	20.4
3 12	8 53.92	+17 0.9	2.034	2.864	13.0	20.3	3 12	8 53.90	+29 18.0	2.413	3.194	12.7	20.6
127273	2002 <i>JA</i> ₆₁		2 6.5 184°89	0°0/ 6.3 18			453023	2007 <i>RS</i> ₈₃		2 6.5 104°99	0°3/ 6.7 18		
1 2	9 42.06	+14 7.2	2.165	2.966	12.9	20.2	1 2	9 46.66	+12 44.7	1.743	2.545	15.5	21.9
1 12	9 37.30	+14 28.2	2.079	2.966	9.8	20.0	1 12	9 41.01	+13 9.3	1.679	2.565	11.8	21.7
1 22	9 30.49	+14 58.3	2.019	2.966	6.2	19.8	1 22	9 32.90	+13 45.9	1.637	2.584	7.5	21.5
2 1	9 22.22	+15 34.0	1.985	2.966	2.2	19.5	2 1	9 23.10	+14 29.9	1.623	2.603	2.8	21.2
2 11	9 13.36	+16 10.8	1.982	2.966	1.9	19.5	2 11	9 12.75	+15 15.4	1.637	2.621	2.1	21.2
2 21	9 4.86	+16 44.3	2.008	2.965	5.9	19.7	2 21	9 3.08	+15 56.9	1.680	2.638	6.6	21.5
3 2	8 57.64	+17 11.1	2.062	2.964	9.5	20.0	3 2	8 55.14	+16 30.2	1.751	2.656	10.8	21.8
3 12	8 52.38	+17 29.2	2.140	2.963	12.7	20.2	3 12	8 49.68	+16 53.0	1.845	2.672	14.2	22.1
281075	2006 <i>QE</i> ₁₂₀		2 6.5 170°76	2°3/ 9.0 17			523769	2014 <i>WS</i> ₅₁₀		2 6.5 32°39	0°1/ 7.7 18		
1 2	9 38.76	+ 4 26.2	3.098	3.852	10.5	22.2	1 2	9 20.00	+11 40.5	40.502	41.280	0.8	21.9
1 12	9 34.20	+ 4 44.4	3.005	3.856	8.3	22.0	1 12	9 19.35	+11 43.4	40.417	41.289	0.6	21.8
1 22	9 28.26	+ 5 14.1	2.936	3.859	5.8	21.8	1 22	9 18.61	+11 46.8	40.358	41.297	0.4	21.8
2 1	9 21.36	+ 5 53.8	2.896	3.862	3.3	21.7	2 1	9 17.83	+11 50.6	40.330	41.306	0.2	21.8
2 11	9 14.07	+ 6 40.9	2.887	3.865	2.4	21.6	2 11	9 17.03	+11 54.7	40.331	41.314	0.1	21.7
2 21	9 7.00	+ 7 32.2	2.910	3.866	4.3	21.7	2 21	9 16.24	+11 58.9	40.364	41.323	0.3	21.8
3 2	9 0.74	+ 8 24.1	2.962	3.868	6.8	21.9	3 2	9 15.50	+12 3.0	40.426	41.331	0.6	21.8
3 12	8 55.77	+ 9 13.2	3.041	3.869	9.2	22.1	3 12	9 14.83	+12 6.9	40.516	41.340	0.8	21.9
195411	2002 <i>GX</i> ₃₈		2 6.5 255°69	5°7/11.4 18			404215	2013 <i>CM</i> ₁₇₂		2 6.5 333°76	1°5/ 7.5 18		
1 2	9 39.29	- 3 47.5	2.270	3.000	14.5	20.8	1 2	9 41.00	+ 8 51				

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
121531	1999 <i>UV</i> ₃₆		2 6.5 49°25	0°6/ 6.1	18		198869	2005 <i>RO</i> ₂₄		2 6.5 143°48	3°3/ 8.8	18	
1 2	9 43.13	+15 59.0	1.821	2.635	14.5	20.2	1 2	9 46.71	+ 4 44.0	1.857	2.628	15.9	21.1
1 12	9 38.39	+16 16.4	1.748	2.642	10.9	20.0	1 12	9 41.00	+ 4 49.2	1.780	2.641	12.6	20.9
1 22	9 31.29	+16 42.2	1.699	2.649	6.9	19.8	1 22	9 32.91	+ 5 12.1	1.725	2.653	8.8	20.7
2 1	9 22.54	+17 12.4	1.676	2.657	2.4	19.5	2 1	9 23.15	+ 5 50.8	1.696	2.664	4.9	20.5
2 11	9 13.19	+17 41.6	1.681	2.664	2.3	19.5	2 11	9 12.75	+ 6 41.2	1.697	2.675	3.5	20.4
2 21	9 4.39	+18 5.3	1.715	2.672	6.7	19.8	2 21	9 2.86	+ 7 37.6	1.726	2.684	6.5	20.6
3 2	8 57.16	+18 20.4	1.776	2.680	10.7	20.1	3 2	8 54.52	+ 8 34.2	1.784	2.693	10.3	20.9
3 12	8 52.27	+18 25.4	1.860	2.688	14.1	20.3	3 12	8 48.52	+ 9 25.7	1.866	2.701	13.8	21.1
399475	2002 <i>RZ</i> ₂₄₄		2 6.5 102°98	1°6/ 7.9	18		184073	2004 <i>GU</i> ₁₈		2 6.5 226°01	3°7/ 2.9	18	
1 2	9 43.14	+ 6 29.6	1.916	2.698	15.1	22.0	1 2	9 42.92	+22 1.9	2.157	2.974	12.4	20.3
1 12	9 38.18	+ 7 24.4	1.848	2.720	11.6	21.8	1 12	9 38.27	+23 34.9	2.069	2.965	9.4	20.1
1 22	9 31.06	+ 8 36.9	1.803	2.741	7.7	21.6	1 22	9 31.33	+25 15.3	2.007	2.956	6.1	19.8
2 1	9 22.43	+10 2.9	1.786	2.761	3.5	21.4	2 1	9 22.64	+26 55.3	1.974	2.946	3.8	19.7
2 11	9 13.29	+11 35.3	1.798	2.782	2.1	21.3	2 11	9 13.11	+28 26.6	1.971	2.936	5.0	19.7
2 21	9 4.66	+13 6.6	1.841	2.801	6.0	21.6	2 21	9 3.79	+29 42.2	1.999	2.925	8.2	19.9
3 2	8 57.49	+14 30.1	1.912	2.820	9.8	21.9	3 2	8 55.77	+30 38.3	2.053	2.914	11.5	20.1
3 12	8 52.48	+15 41.3	2.008	2.839	13.1	22.1	3 12	8 49.88	+31 13.9	2.129	2.902	14.4	20.3
22989	Loriskopp		2 6.5 81°34	1°0/ 7.3	18		132963	2002 <i>TM</i> ₁₂₂		2 6.5 162°18	5°8/ 11.9	18	
1 2	9 42.53	+10 55.9	2.005	2.801	14.0	18.9	1 2	9 39.44	- 5 18.0	2.557	3.269	13.5	20.4
1 12	9 37.63	+11 11.4	1.936	2.817	10.7	18.8	1 12	9 35.02	- 5 33.3	2.466	3.273	11.4	20.2
1 22	9 30.66	+11 38.6	1.890	2.834	6.9	18.6	1 22	9 28.95	- 5 30.4	2.396	3.276	9.0	20.1
2 1	9 22.28	+12 14.3	1.872	2.850	2.9	18.3	2 1	9 21.68	- 5 8.7	2.352	3.279	6.9	19.9
2 11	9 13.42	+12 53.9	1.883	2.866	1.9	18.3	2 11	9 13.93	- 4 29.4	2.335	3.281	5.8	19.9
2 21	9 5.08	+13 32.8	1.923	2.883	5.8	18.6	2 21	9 6.43	- 3 35.9	2.347	3.284	6.5	19.9
3 2	8 58.14	+14 7.1	1.991	2.899	9.5	18.8	3 2	8 59.92	- 2 32.7	2.388	3.286	8.6	20.1
3 12	8 53.28	+14 33.8	2.083	2.915	12.7	19.1	3 12	8 54.98	- 1 25.6	2.454	3.288	10.9	20.2
153187	2000 <i>UD</i> ₈₂		2 6.5 176°31	3°4/ 9.2	18		464986	2006 <i>BP</i> ₂₆		2 6.5 204°20	0°0/ 6.3	18	
1 2	9 41.68	+ 3 47.0	2.301	3.063	13.4	20.5	1 2	9 41.04	+12 58.2	2.051	2.855	13.4	21.5
1 12	9 36.87	+ 3 45.0	2.211	3.065	10.8	20.3	1 12	9 36.68	+13 34.9	1.966	2.854	10.2	21.3
1 22	9 30.18	+ 3 57.9	2.144	3.066	7.7	20.1	1 22	9 30.21	+14 23.1	1.904	2.852	6.5	21.1
2 1	9 22.13	+ 4 24.6	2.103	3.067	4.6	19.9	2 1	9 22.19	+15 18.9	1.870	2.851	2.4	20.8
2 11	9 13.51	+ 5 2.5	2.093	3.067	3.4	19.9	2 11	9 13.52	+16 16.6	1.866	2.850	1.9	20.8
2 21	9 5.20	+ 5 47.5	2.111	3.068	5.7	20.0	2 21	9 5.19	+17 10.7	1.891	2.848	6.1	21.0
3 2	8 58.03	+ 6 35.2	2.158	3.067	8.8	20.2	3 2	8 58.16	+17 56.8	1.943	2.846	9.9	21.3
3 12	8 52.65	+ 7 21.1	2.231	3.067	11.8	20.4	3 12	8 53.17	+18 31.9	2.020	2.845	13.3	21.5
456092	2006 <i>BD</i> ₁₃₇		2 6.5 72°50	0°6/ 6.8	18		412603	2014 <i>OW</i> ₇₆		2 6.5 185°24	1°0/ 5.8	18	
1 2	9 48.71	+14 18.4	1.417	2.234	17.7	20.9	1 2	9 46.53	+16 17.0	1.987	2.790	13.8	22.5
1 12	9 43.12	+14 7.6	1.351	2.244	13.6	20.7	1 12	9 40.92	+16 50.7	1.902	2.791	10.5	22.3
1 22	9 34.49	+14 7.5	1.306	2.255	8.7	20.4	1 22	9 32.92	+17 33.3	1.841	2.790	6.6	22.1
2 1	9 23.73	+14 14.5	1.286	2.266	3.3	20.1	2 1	9 23.18	+18 19.8	1.809	2.789	2.4	21.8
2 11	9 12.26	+14 23.8	1.293	2.277	2.4	20.1	2 11	9 12.72	+19 4.3	1.806	2.788	2.5	21.8
2 21	9 1.60	+14 31.0	1.327	2.288	7.7	20.5	2 21	9 2.66	+19 41.8	1.833	2.785	6.7	22.0
3 2	8 53.11	+14 32.8	1.387	2.299	12.5	20.8	3 2	8 54.11	+20 8.7	1.887	2.782	10.7	22.3
3 12	8 47.64	+14 27.6	1.468	2.310	16.5	21.0	3 12	8 47.84	+20 23.7	1.966	2.778	14.1	22.5
415653	2014 <i>QG</i> ₄₀₆		2 6.5 99°52	4°4/ 10.1	18		33971	2000 <i>NL</i> ₁₄		2 6.5 245°72	0°0/ 6.3	18	
1 2	9 42.43	+ 0 12.0	1.897	2.654	16.1	22.1	1 2	9 46.67	+14 43.6	1.616	2.428	16.1	18.6
1 12	9 37.65	+ 0 29.8	1.826	2.674	13.0	21.9	1 12	9 41.57	+14 50.3	1.528	2.420	12.4	18.4
1 22	9 30.73	+ 1 9.2	1.777	2.693	9.4	21.7	1 22	9 33.62	+15 7.5	1.463	2.413	7.9	18.1
2 1	9 22.33	+ 2 8.6	1.753	2.712	6.0	21.6	2 1	9 23.50	+15 31.4	1.424	2.405	2.9	17.8
2 11	9 13.40	+ 3 23.3	1.758	2.730	4.4	21.5	2 11	9 12.44	+15 56.6	1.413	2.397	2.4	17.7
2 21	9 4.97	+ 4 46.6	1.792	2.748	6.5	21.7	2 21	9 1.82	+16 17.9	1.430	2.389	7.5	18.0
3 2	8 57.99	+ 6 11.3	1.853	2.766	9.8	21.9	3 2	8 52.99	+16 31.4	1.473	2.381	12.2	18.3
3 12	8 53.14	+ 7 30.8	1.940	2.783	13.0	22.1	3 12	8 46.91	+16 35.2	1.538	2.372	16.3	18.5
183979	2004 <i>EJ</i> ₃₁		2 6.5 308°96	3°9/ 9.5	18		357339	2003 <i>QB</i> ₁₂		2 6.5 119°70	1°1/ 5.8	18	
1 2	9 39.89	+ 3 7.8	2.271	3.035	13.6	19.9	1 2	9 46.59	+16 12.8	1.861	2.668	14.5	21.9
1 12	9 35.58	+ 2 49.5	2.178	3.031	10.9	19.7	1 12	9 40.92	+16 52.5	1.794	2.685	10.9	21.7
1 22	9 29.40	+ 2 45.6	2.108	3.027	8.0	19.5	1 22	9 32.84	+17 41.1	1.751	2.701	6.8	21.5
2 1	9 21.86	+ 2 56.0	2.064	3.023	5.1	19.3	2 1	9 23.12	+18 33.0	1.736	2.717	2.5	21.2
2 11	9 13.74	+ 3 18.8	2.048	3.020	4.0	19.2	2 11	9 12.83	+19 22.0	1.750	2.732	2.6	21.3
2 21	9 5.90	+ 3 50.7	2.061	3.016	5.9	19.3	2 21	9 3.15	+20 2.6	1.794	2.746	6.9	21.6
3 2	8 59.16	+ 4 27.6	2.103	3.012	8.9	19.5	3 2	8 55.13	+20 31.6	1.865	2.760	10.7	21.8
3 12	8 54.19	+ 5 5.1	2.169	3.009	11.9	19.7	3 12	8 49.49	+20 47.8	1.959	2.773	14.0	22.1
81859	Joetaylor		2 6.5 313°05	4°7/ 9.0	18		243146	2007 <i>TJ</i> ₁₈		2 6.5 186°99	0°6/ 6.1	18	
1 2	9 41.77	+ 4 45.4	1.611	2.401	17.1	18.9	1 2	9 45.23	+14 33.0	2.042	2.843	13.6	21.2
1 12	9 37.86	+ 4 13.0	1.517	2.387	13.8	18.7	1 12	9 39.88	+15 12.6	1.956	2.842	10.4	21.0
1 22	9 31.29	+ 3 57.8	1.444	2.373	10.0	18.4	1 22	9 32.25	+16 2.7	1.894	2.842	6.5	20.7
2 1	9 22.67	+ 4 0.5	1.395	2.360	6.2	18.2	2 1	9 22.95	+16 58.6	1.859	2.840	2.3	20.5
2 11	9 13.06	+ 4 19.3	1.372	2.347	4.8	18.0	2 11	9 12.93	+17 54.4	1.855	2.838	2.2	20.5
2 21	9 3.74	+ 4 50.2	1.375	2.334	7.7	18.2	2 21	9 3.27	+18 44.5	1.881	2.835	6.5	20.7
3 2	8 55.97	+ 5 27.5	1.404	2.322	11.9	18.4	3 2	8 55.01	+19 24.7	1.935	2.831	10.4	21.0
3 12	8 50.75	+ 6 5.1	1.456	2.310	15.9	18.6	3 12	8 48.94	+19 53.0	2.013	2.827	13.7	21.2
389661	2011 <i>OY</i> ₅₂		2 6.5 142°96	0°0/ 6.5	17		320658	2008 <i>CY</i> ₁₅₂		2 6.5 326°48	6°6/ 9.9	17	
1 2	9 38.88	+12 25.3	2.683	3.475	10.9	21.3	1 2	9 39.96	+ 1 27.0	1.449			

EPHEMERIDES

2 6.5

2 6.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
171588	Náprstek		2 6.5 93°96	1.3°/ 5.7 18			282221	2001 XE ₂₆₂		2 6.5 120°72	0.3°/ 6.4 18		
1 2	9 47.14	+16 50.5	1.722	2.534	15.2	20.2	1 2	9 47.37	+13 30.8	1.818	2.618	15.0	21.7
1 12	9 41.42	+17 24.6	1.662	2.556	11.5	20.0	1 12	9 41.54	+14 11.1	1.752	2.638	11.4	21.5
1 22	9 33.18	+18 7.1	1.626	2.576	7.1	19.8	1 22	9 33.27	+15 2.9	1.709	2.657	7.2	21.3
2 1	9 23.24	+18 52.2	1.616	2.597	2.6	19.6	2 1	9 23.33	+16 0.9	1.694	2.675	2.5	21.1
2 11	9 12.79	+19 33.5	1.635	2.617	2.8	19.7	2 11	9 12.83	+16 58.6	1.709	2.692	2.2	21.1
2 21	9 3.06	+20 5.9	1.683	2.637	7.2	20.0	2 21	9 2.95	+17 50.0	1.753	2.709	6.7	21.4
3 2	8 55.15	+20 26.4	1.758	2.656	11.2	20.2	3 2	8 54.76	+18 30.9	1.825	2.725	10.7	21.7
3 12	8 49.79	+20 34.3	1.856	2.675	14.5	20.5	3 12	8 49.00	+18 59.3	1.920	2.740	14.1	21.9
288945	2004 SS ₅₁		2 6.5 64°82	1.1°/ 7.2 18			221145	2005 TN ₂₁		2 6.5 143°98	1.0°/ 7.3 18		
1 2	9 46.22	+11 9.3	1.355	2.170	18.4	20.9	1 2	9 42.47	+10 13.1	2.096	2.887	13.6	21.4
1 12	9 41.20	+11 24.3	1.300	2.192	14.1	20.7	1 12	9 37.66	+10 40.0	2.015	2.894	10.5	21.2
1 22	9 33.24	+11 55.4	1.266	2.214	9.1	20.4	1 22	9 30.78	+11 19.6	1.958	2.901	6.8	21.0
2 1	9 23.29	+12 38.1	1.257	2.236	3.7	20.2	2 1	9 22.44	+12 8.5	1.929	2.907	2.9	20.7
2 11	9 12.76	+13 25.3	1.274	2.259	2.4	20.2	2 11	9 13.52	+13 2.1	1.929	2.913	1.8	20.7
2 21	9 3.12	+14 10.1	1.319	2.281	7.5	20.5	2 21	9 4.99	+13 54.9	1.959	2.918	5.7	20.9
3 2	8 55.63	+14 47.1	1.388	2.303	12.2	20.9	3 2	8 57.76	+14 42.5	2.017	2.924	9.5	21.2
3 12	8 51.08	+15 13.0	1.480	2.325	16.2	21.2	3 12	8 52.54	+15 21.5	2.100	2.928	12.7	21.4
376220	2011 EG ₁₃		2 6.5 314°12	1.9°/ 5.4 17			172021	2001 UQ ₂₀₄		2 6.5 198°15	6.9°/31.5 18		
1 2	9 42.53	+18 48.7	1.736	2.560	14.6	21.0	1 2	9 46.10	+36 40.4	2.367	3.177	11.7	19.9
1 12	9 38.33	+19 14.8	1.647	2.547	11.1	20.7	1 12	9 40.54	+37 42.4	2.301	3.177	9.5	19.7
1 22	9 31.53	+19 48.6	1.581	2.534	7.0	20.4	1 22	9 32.64	+38 37.5	2.260	3.177	7.6	19.6
2 1	9 22.75	+20 24.6	1.542	2.522	2.8	20.1	2 1	9 23.11	+39 18.6	2.245	3.177	6.9	19.6
2 11	9 13.10	+20 56.8	1.530	2.510	3.3	20.1	2 11	9 12.99	+39 40.0	2.259	3.177	7.8	19.6
2 21	9 3.83	+21 19.8	1.546	2.499	7.7	20.4	2 21	9 3.42	+39 39.2	2.299	3.176	9.7	19.8
3 2	8 56.17	+21 30.3	1.587	2.487	12.0	20.6	3 2	8 55.41	+39 16.8	2.364	3.176	11.9	19.9
3 12	8 51.01	+21 27.4	1.651	2.476	15.7	20.8	3 12	8 49.71	+38 35.8	2.451	3.176	14.0	20.1
415538	2014 QV ₁₂₉		2 6.5 200°74	1.3°/ 5.7 18			99522	2002 EF ₄₁		2 6.5 280°57	2.6°/ 5.2 18		
1 2	9 47.06	+17 45.9	1.914	2.722	14.1	21.9	1 2	9 47.06	+20 33.5	1.558	2.383	15.9	19.1
1 12	9 41.44	+18 9.5	1.828	2.719	10.7	21.7	1 12	9 42.05	+20 57.2	1.476	2.376	12.1	18.9
1 22	9 33.31	+18 40.3	1.766	2.716	6.7	21.4	1 22	9 34.02	+21 27.0	1.415	2.368	7.7	18.6
2 1	9 23.36	+19 13.6	1.731	2.712	2.5	21.1	2 1	9 23.72	+21 56.5	1.381	2.360	3.4	18.3
2 11	9 12.64	+19 43.6	1.726	2.707	2.8	21.1	2 11	9 12.46	+22 18.8	1.374	2.353	4.0	18.3
2 21	9 2.36	+20 5.8	1.750	2.702	7.0	21.4	2 21	9 1.74	+22 28.7	1.394	2.345	8.6	18.6
3 2	8 53.65	+20 17.4	1.802	2.697	11.1	21.6	3 2	8 52.96	+22 23.9	1.440	2.338	13.1	18.8
3 12	8 47.34	+20 17.6	1.876	2.691	14.6	21.8	3 12	8 47.12	+22 4.7	1.507	2.330	17.1	19.0
194102	2001 SX ₂₁₂		2 6.5 143°09	2.7°/ 8.5 18			242454	2004 RM ₃₂		2 6.5 176°74	1.8°/ 5.2 18		
1 2	9 44.42	+ 5 27.7	1.744	2.526	16.3	21.6	1 2	9 43.84	+19 8.2	2.088	2.900	12.9	20.8
1 12	9 39.48	+ 5 54.4	1.666	2.536	12.8	21.4	1 12	9 38.80	+19 43.3	2.008	2.901	9.8	20.6
1 22	9 32.08	+ 6 40.6	1.610	2.544	8.8	21.2	1 22	9 31.56	+20 24.3	1.951	2.902	6.1	20.3
2 1	9 22.90	+ 7 43.6	1.580	2.553	4.5	20.9	2 1	9 22.74	+21 6.3	1.923	2.903	2.5	20.1
2 11	9 13.02	+ 8 57.4	1.579	2.560	2.9	20.8	2 11	9 13.29	+21 43.7	1.924	2.903	3.1	20.1
2 21	9 3.61	+10 15.0	1.607	2.567	6.6	21.1	2 21	9 4.26	+22 12.2	1.955	2.903	6.7	20.4
3 2	8 55.79	+11 29.1	1.662	2.574	10.8	21.3	3 2	8 56.63	+22 29.0	2.012	2.903	10.3	20.6
3 12	8 50.36	+12 34.1	1.741	2.580	14.4	21.6	3 12	8 51.14	+22 33.5	2.093	2.902	13.5	20.8
190206	2005 YC ₂₃₃		2 6.5 260°61	0.7°/ 7.0 18			377707	2005 WW ₅₄		2 6.6 342°35	1.9°/ 13.3 18		
1 2	9 42.70	+12 23.9	1.990	2.791	13.9	20.5	1 2	9 45.41	-13 34.8	1.084	1.818	27.0	20.1
1 12	9 38.02	+12 32.1	1.900	2.785	10.7	20.3	1 12	9 41.89	-16 36.5	1.017	1.812	24.6	19.9
1 22	9 31.11	+12 51.0	1.833	2.779	6.9	20.1	1 22	9 34.58	-19 7.5	0.964	1.808	22.1	19.7
2 1	9 22.56	+13 17.6	1.793	2.773	2.8	19.8	2 1	9 24.13	-20 53.3	0.928	1.804	20.1	19.5
2 11	9 13.30	+13 47.9	1.783	2.767	1.9	19.7	2 11	9 12.05	-21 43.3	0.909	1.801	19.0	19.4
2 21	9 4.39	+14 17.4	1.801	2.761	6.1	20.0	2 21	9 0.31	-21 35.1	0.908	1.798	19.4	19.4
3 2	8 56.83	+14 42.3	1.847	2.754	10.1	20.2	3 2	8 50.92	-20 35.7	0.925	1.796	21.1	19.5
3 12	8 51.41	+14 59.9	1.916	2.748	13.6	20.4	3 12	8 45.34	-19 0.6	0.957	1.795	23.5	19.7
54428	2000 LN ₂₇		2 6.5 181°37	2.3°/ 8.3 18			127691	2003 EP ₁₇		2 6.6 337°38	4.7°/ 3.9 18		
1 2	9 42.69	+ 8 1.2	2.688	3.457	11.5	17.9	1 2	9 41.53	+21 55.1	1.144	1.998	18.5	18.9
1 12	9 37.37	+ 7 42.7	2.595	3.457	9.1	17.8	1 12	9 38.82	+22 54.2	1.072	1.987	14.2	18.6
1 22	9 30.38	+ 7 33.2	2.527	3.457	6.2	17.6	1 22	9 32.47	+24 3.1	1.019	1.976	9.2	18.3
2 1	9 22.23	+ 7 31.9	2.487	3.457	3.4	17.4	2 1	9 23.28	+25 11.7	0.990	1.967	5.1	18.1
2 11	9 13.61	+ 7 37.1	2.478	3.457	2.4	17.3	2 11	9 12.81	+26 7.8	0.984	1.958	6.5	18.1
2 21	9 5.28	+ 7 46.4	2.500	3.456	4.9	17.5	2 21	9 2.97	+26 42.4	1.002	1.951	11.4	18.4
3 2	8 57.95	+ 7 57.4	2.551	3.455	7.8	17.7	3 2	8 55.55	+26 51.3	1.042	1.945	16.5	18.6
3 12	8 52.21	+ 8 7.5	2.628	3.454	10.5	17.9	3 12	8 51.75	+26 35.8	1.100	1.939	20.9	18.9
500439	2012 TC ₁₆₆		2 6.5 160°12	3.4°/ 9.9 17			463008	2011 FA ₁₅₈		2 6.6 271°20	5.1°/ 1.9 17		
1 2	9 38.46	+ 1 35.5	2.597	3.348	12.4	22.2	1 2	9 42.47	+26 30.4	2.097	2.921	12.5	21.4
1 12	9 34.28	+ 1 46.2	2.506	3.351	10.0	22.1	1 12	9 38.14	+27 58.1	2.008	2.905	9.6	21.2
1 22	9 28.49	+ 2 12.1	2.438	3.353	7.3	21.9	1 22	9 31.38	+29 29.7	1.944	2.888	6.7	21.0
2 1	9 21.56	+ 2 52.1	2.397	3.356	4.6	21.7	2 1	9 22.76	+30 56.9	1.909	2.872	5.1	20.8
2 11	9 14.17	+ 3 43.5	2.386	3.358	3.5	21.7	2 11	9 13.24	+32 11.4	1.902	2.855	6.3	20.9
2 21	9 7.03	+ 4 42.3	2.405	3.360	5.1	21.8	2 21	9 3.94	+33 7.1	1.924	2.839	9.2	21.0
3 2	9 0.85	+ 5 44.0	2.452	3.362	7.9	21.9	3 2	8 56.01	+33 40.7	1.971	2.822	12.4	21.2
3 12	8 56.18	+ 6 43.9	2.526	3.363	10.5	22.1	3 12	8 50.34	+33 52.8	2.040	2.804	15.2	21.3
202232	2004 YV ₂₁		2 6.5 282°81	1.3°/ 7.2 18			196645	2003 SW ₂₃		2 6.6 278°37	3.5°/ 4.2 18		
1 2	9 45.41	+12 6.4	1.638	2.445	16.2	19.8	1 2	9 45.33	+24 30.7	2.027	2.846	13.0	20.0
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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
186155	2001 <i>UX</i> ₁₀₂		2 6.6 159°78	1°8/ 5.3	18		100664	1997 <i>WZ</i> ₃₅		2 6.6 67°38	4°0/ 3.9	18	
1 2	9 44.23	+18 24.7	1.991	2.803	13.5	21.1	1 2	9 46.43	+23 43.7	1.659	2.486	15.1	19.0
1 12	9 39.18	+19 3.3	1.913	2.807	10.2	20.9	1 12	9 41.12	+24 36.8	1.605	2.505	11.3	18.8
1 22	9 31.84	+19 49.0	1.858	2.809	6.4	20.7	1 22	9 33.12	+25 32.5	1.574	2.524	7.4	18.6
2 1	9 22.86	+20 36.4	1.832	2.812	2.6	20.4	2 1	9 23.31	+26 22.7	1.570	2.544	4.3	18.5
2 11	9 13.23	+21 19.5	1.835	2.814	3.0	20.5	2 11	9 12.98	+27 0.1	1.594	2.563	5.2	18.6
2 21	9 4.05	+21 53.5	1.867	2.816	6.9	20.7	2 21	9 3.44	+27 20.4	1.645	2.582	8.7	18.8
3 2	8 56.35	+22 15.4	1.926	2.818	10.6	20.9	3 2	8 55.85	+27 22.4	1.721	2.602	12.3	19.1
3 12	8 50.87	+22 24.3	2.009	2.820	13.9	21.2	3 12	8 50.95	+27 7.8	1.819	2.621	15.4	19.3
319447	2006 <i>KJ</i> ₆₅		2 6.6 169°84	0°2/ 6.3	18		174480	2003 <i>AH</i> ₄₀		2 6.6 2°66	1°6/ 7.9	18	
1 2	9 40.00	+12 46.0	2.404	3.201	11.9	21.1	1 2	9 38.02	+ 8 14.7	2.109	2.902	13.5	19.8
1 12	9 35.64	+13 38.4	2.318	3.203	9.0	20.9	1 12	9 34.36	+ 8 42.2	2.023	2.901	10.5	19.6
1 22	9 29.46	+14 41.7	2.257	3.204	5.7	20.7	1 22	9 28.75	+ 9 24.2	1.961	2.901	7.0	19.4
2 1	9 21.97	+15 51.6	2.225	3.206	2.0	20.4	2 1	9 21.75	+10 17.9	1.926	2.902	3.2	19.2
2 11	9 13.94	+17 2.7	2.224	3.207	1.8	20.4	2 11	9 14.16	+11 18.6	1.919	2.902	2.0	19.1
2 21	9 6.19	+18 9.9	2.253	3.208	5.5	20.6	2 21	9 6.89	+12 21.0	1.942	2.903	5.6	19.3
3 2	8 59.52	+19 8.5	2.311	3.209	8.8	20.8	3 2	9 0.80	+13 19.7	1.992	2.904	9.2	19.5
3 12	8 54.57	+19 56.0	2.394	3.209	11.8	21.0	3 12	8 56.58	+14 10.6	2.067	2.906	12.5	19.7
268034	2004 <i>PQ</i> ₃₆		2 6.6 81°63	2°8/ 8.9	18		419072	2009 <i>SY</i> ₆₀		2 6.6 115°06	1°2/ 7.4	18	
1 2	9 43.20	+ 4 21.2	2.065	2.834	14.6	20.9	1 2	9 43.43	+11 0.5	2.003	2.798	14.1	21.7
1 12	9 37.99	+ 4 44.2	2.005	2.865	11.4	20.7	1 12	9 38.46	+11 7.0	1.925	2.805	10.8	21.5
1 22	9 30.85	+ 5 23.7	1.968	2.896	7.9	20.5	1 22	9 31.32	+11 24.8	1.869	2.812	7.1	21.3
2 1	9 22.43	+ 6 17.0	1.958	2.926	4.3	20.4	2 1	9 22.67	+11 51.3	1.841	2.819	3.0	21.1
2 11	9 13.64	+ 7 19.2	1.977	2.956	2.9	20.3	2 11	9 13.45	+12 22.4	1.842	2.826	2.0	21.0
2 21	9 5.40	+ 8 24.9	2.026	2.985	5.6	20.6	2 21	9 4.67	+12 53.8	1.872	2.832	5.9	21.3
3 2	8 58.55	+ 9 28.5	2.104	3.014	8.9	20.8	3 2	8 57.28	+13 21.6	1.930	2.838	9.7	21.5
3 12	8 53.67	+10 25.7	2.207	3.042	11.9	21.1	3 12	8 52.01	+13 43.0	2.012	2.845	13.0	21.8
158501	2002 <i>EY</i> ₅₆		2 6.6 61°64	1°8/ 7.8	18		169142	2001 <i>QD</i> ₁₀₈		2 6.6 178°00	0°5/ 6.1	18	
1 2	9 41.63	+ 8 58.2	1.849	2.645	15.0	20.3	1 2	9 40.64	+15 29.2	2.801	3.597	10.5	21.2
1 12	9 37.26	+ 9 9.2	1.772	2.652	11.6	20.1	1 12	9 35.86	+16 1.1	2.713	3.598	7.9	21.0
1 22	9 30.65	+ 9 34.7	1.717	2.658	7.7	19.8	1 22	9 29.47	+16 39.6	2.652	3.599	4.9	20.8
2 1	9 22.43	+10 12.0	1.689	2.665	3.6	19.6	2 1	9 21.97	+17 21.5	2.619	3.600	1.8	20.6
2 11	9 13.60	+10 56.4	1.688	2.671	2.3	19.5	2 11	9 14.01	+18 2.8	2.618	3.600	1.7	20.6
2 21	9 5.22	+11 42.7	1.717	2.678	6.2	19.8	2 21	9 6.31	+18 40.1	2.647	3.600	4.9	20.8
3 2	8 58.29	+12 25.9	1.772	2.685	10.1	20.0	3 2	8 59.58	+19 10.6	2.705	3.599	7.9	21.0
3 12	8 53.56	+13 2.0	1.851	2.692	13.6	20.3	3 12	8 54.36	+19 32.7	2.790	3.598	10.5	21.2
27445	Lynnlane		2 6.6 191°36	3°1/ 8.8	18		406150	2006 <i>VV</i> ₁₅₄		2 6.6 62°42	3°0/ 4.5	18	
1 2	9 43.12	+ 5 31.4	2.029	2.804	14.6	19.5	1 2	9 44.11	+19 54.6	1.576	2.405	15.6	20.8
1 12	9 38.27	+ 5 29.4	1.940	2.803	11.6	19.3	1 12	9 39.51	+20 56.2	1.518	2.420	11.7	20.6
1 22	9 31.26	+ 5 42.8	1.873	2.802	8.1	19.1	1 22	9 32.21	+22 5.3	1.482	2.436	7.4	20.4
2 1	9 22.67	+ 6 10.4	1.832	2.800	4.6	18.8	2 1	9 23.02	+23 13.7	1.473	2.452	3.5	20.2
2 11	9 13.40	+ 6 48.9	1.820	2.799	3.3	18.8	2 11	9 13.20	+24 13.0	1.492	2.468	4.4	20.3
2 21	9 4.46	+ 7 33.7	1.837	2.796	6.1	18.9	2 21	9 4.10	+24 57.0	1.538	2.484	8.5	20.6
3 2	8 56.83	+ 8 20.0	1.883	2.794	9.8	19.1	3 2	8 56.89	+25 22.7	1.610	2.500	12.4	20.9
3 12	8 51.26	+ 9 3.0	1.952	2.790	13.1	19.3	3 12	8 52.37	+25 30.3	1.702	2.516	15.8	21.1
52166	1184 <i>T</i> ₋₂		2 6.6 43°35	1°5/ 7.6	18		21264	1996 <i>HT</i> ₁₆		2 6.6 90°54	0°6/ 7.0	18	
1 2	9 41.64	+ 9 24.7	1.645	2.450	16.2	19.2	1 2	9 41.15	+11 54.6	2.123	2.921	13.2	19.1
1 12	9 37.57	+ 9 47.2	1.568	2.453	12.5	19.0	1 12	9 36.66	+12 15.9	2.043	2.927	10.1	18.9
1 22	9 31.00	+10 26.3	1.513	2.457	8.2	18.7	1 22	9 30.16	+12 48.0	1.988	2.933	6.5	18.7
2 1	9 22.60	+11 18.5	1.484	2.462	3.6	18.5	2 1	9 22.25	+13 27.8	1.959	2.939	2.6	18.5
2 11	9 13.47	+12 17.9	1.482	2.466	2.3	18.4	2 11	9 13.80	+14 10.7	1.960	2.944	1.7	18.4
2 21	9 4.82	+13 17.6	1.508	2.470	6.8	18.7	2 21	9 5.74	+14 52.1	1.991	2.950	5.7	18.7
3 2	8 57.79	+14 11.5	1.560	2.475	11.2	18.9	3 2	8 58.95	+15 28.0	2.049	2.956	9.3	18.9
3 12	8 53.20	+14 55.3	1.636	2.480	15.0	19.2	3 12	8 54.11	+15 55.8	2.132	2.961	12.5	19.1
347032	2010 <i>EM</i> ₈₂		2 6.6 312°46	0°6/ 6.9	17		87828	2000 <i>SS</i> ₁₇₀		2 6.6 159°82	5°6/ 1.8	18	
1 2	9 40.17	+12 29.7	2.019	2.824	13.6	21.1	1 2	9 48.11	+32 33.7	2.450	3.258	11.4	20.2
1 12	9 36.18	+12 42.0	1.923	2.811	10.5	20.8	1 12	9 41.86	+33 34.1	2.383	3.264	9.0	20.1
1 22	9 30.02	+13 5.2	1.851	2.798	6.8	20.6	1 22	9 33.41	+34 30.3	2.342	3.271	6.7	19.9
2 1	9 22.24	+13 36.5	1.806	2.785	2.7	20.3	2 1	9 23.42	+35 15.6	2.329	3.276	5.6	19.9
2 11	9 13.74	+14 11.6	1.789	2.773	1.9	20.2	2 11	9 12.89	+35 44.4	2.345	3.281	6.5	19.9
2 21	9 5.51	+14 46.0	1.801	2.761	6.1	20.5	2 21	9 2.87	+35 53.9	2.390	3.286	8.6	20.1
3 2	8 58.54	+15 15.5	1.840	2.749	10.0	20.7	3 2	8 54.33	+35 44.2	2.462	3.290	11.0	20.2
3 12	8 53.62	+15 37.1	1.903	2.738	13.5	20.9	3 12	8 47.98	+35 17.5	2.555	3.293	13.2	20.4
284803	2008 <i>YZ</i> ₁₁₈		2 6.6 347°27	1°8/ 4.9	18		6523	Clube		2 6.6 236°86	7°3/30.9	17	
1 2	9 39.21	+17 19.0	2.208	3.023	12.3	20.5	1 2	9 55.95	+41 12.5	2.764	3.544	11.0	20.7
1 12	9 35.26	+18 23.1	2.126	3.022	9.2	20.3	1 12	9 47.96	+42 9.6	2.674	3.524	9.2	20.6
1 22	9 29.33	+19 36.0	2.069	3.021	5.7	20.0	1 22	9 37.40	+42 57.8	2.610	3.504	7.8	20.5
2 1	9 21.96	+20 52.1	2.040	3.020	2.4	19.8	2 1	9 24.93	+43 29.5	2.574	3.482	7.3	20.4
2 11	9 13.98	+22 5.1	2.042	3.020	3.0	19.9	2 11	9 11.68	+43 39.0	2.568	3.459	8.1	20.4
2 21	9 6.31	+23 9.1	2.072	3.019	6.5	20.1	2 21	8 58.87	+43 23.9	2.589	3.436	9.8	20.5
3 2	8 59.83	+24 0.2	2.130	3.019	9.9	20.3	3 2	8 47.68	+42 45.2	2.637	3.412	11.8	20.6
3 12	8 55.24	+24 36.3	2.212	3.018	12.9	20.5	3 12	8 38.96	+41 46.9	2.706	3.386	13.7	20.7
205574	2001 <i>TF</i> ₁₂		2 6.6 173°72	4°1/10.5	18		41911	2000 <i>WH</i> ₁₄₃		2 6.6 4°42	3°6/ 9.2	18	
1 2	9 38.87	- 0 13.9	2.674	3.413	12.3	20.9	1 2	9 36.54	+ 2 23.1	1.254	2.063	20.0</	

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
491848	2013 AS ₈₅		2 6.6 327°97	0.4/ 6.8	18		490813	2010 VX ₁₂₇		2 6.6 102°28	1°0/ 5.8	18	
1 2	9 45.81	+14 10.5	1.355	2.179	18.0	21.4	1 2	9 45.31	+15 44.9	1.997	2.801	13.7	22.0
1 12	9 41.38	+14 9.2	1.277	2.174	13.9	21.1	1 12	9 39.83	+16 29.1	1.934	2.823	10.3	21.8
1 22	9 33.75	+14 20.3	1.219	2.170	8.9	20.8	1 22	9 32.16	+17 22.0	1.896	2.845	6.4	21.7
2 1	9 23.71	+14 40.0	1.185	2.166	3.4	20.5	2 1	9 23.03	+18 18.1	1.886	2.867	2.3	21.4
2 11	9 12.65	+15 2.4	1.178	2.163	2.5	20.4	2 11	9 13.42	+19 11.5	1.906	2.887	2.4	21.5
2 21	9 2.18	+15 21.9	1.197	2.159	8.2	20.7	2 21	9 4.39	+19 57.0	1.955	2.908	6.4	21.8
3 2	8 53.79	+15 34.1	1.241	2.156	13.3	21.0	3 2	8 56.88	+20 31.4	2.032	2.927	10.0	22.0
3 12	8 48.52	+15 36.6	1.305	2.154	17.8	21.3	3 12	8 51.55	+20 53.3	2.133	2.946	13.1	22.3
327869	2006 YB ₅₂		2 6.6 207°67	0°1/ 6.5	18		344007	2011 RF ₂		2 6.6 167°02	3°0/ 9.1	18	
1 2	9 41.59	+12 32.2	2.243	3.040	12.7	21.6	1 2	9 39.47	+ 4 41.2	2.504	3.270	12.4	20.7
1 12	9 37.03	+13 20.0	2.151	3.035	9.7	21.4	1 12	9 35.15	+ 4 36.2	2.413	3.270	9.9	20.5
1 22	9 30.46	+14 19.8	2.084	3.031	6.1	21.2	1 22	9 29.15	+ 4 44.0	2.346	3.270	7.0	20.3
2 1	9 22.41	+15 27.3	2.045	3.025	2.2	20.9	2 1	9 21.95	+ 5 3.7	2.306	3.271	4.2	20.2
2 11	9 13.70	+16 36.9	2.036	3.020	1.8	20.9	2 11	9 14.25	+ 5 33.0	2.295	3.271	3.1	20.1
2 21	9 5.24	+17 42.9	2.058	3.013	5.8	21.1	2 21	9 6.83	+ 6 8.6	2.314	3.271	5.2	20.2
3 2	8 57.95	+18 40.5	2.108	3.007	9.5	21.3	3 2	9 0.41	+ 6 46.6	2.361	3.271	8.1	20.4
3 12	8 52.54	+19 26.7	2.182	3.000	12.7	21.5	3 12	8 55.59	+ 7 23.4	2.434	3.271	10.9	20.6
519112	2010 MZ ₂₁		2 6.6 183°24	2°8/ 9.6	17		18518	1996 VT ₃		2 6.6 55°62	4°9/ 3.2	18	
1 2	9 38.43	+ 2 6.9	2.692	3.444	12.0	21.8	1 2	9 45.04	+26 6.8	1.771	2.598	14.2	18.1
1 12	9 34.27	+ 2 41.7	2.597	3.444	9.6	21.6	1 12	9 40.18	+27 6.2	1.704	2.604	10.8	17.9
1 22	9 28.53	+ 3 32.1	2.525	3.444	6.8	21.4	1 22	9 32.68	+28 6.8	1.662	2.609	7.4	17.7
2 1	9 21.66	+ 4 36.6	2.480	3.444	4.1	21.2	2 1	9 23.29	+29 0.6	1.646	2.615	5.0	17.6
2 11	9 14.31	+ 5 51.4	2.467	3.443	2.8	21.1	2 11	9 13.21	+29 40.0	1.658	2.620	6.0	17.7
2 21	9 7.18	+ 7 11.8	2.484	3.442	4.8	21.3	2 21	9 3.76	+30 0.4	1.697	2.626	9.2	17.9
3 2	9 0.95	+ 8 32.7	2.531	3.441	7.7	21.4	3 2	8 56.09	+30 0.6	1.762	2.632	12.6	18.1
3 12	8 56.19	+ 9 49.3	2.606	3.439	10.4	21.6	3 12	8 51.04	+29 42.5	1.847	2.638	15.7	18.3
411266	2010 RW ₁₃₉		2 6.6 219°53	0°3/ 6.8	17		98066	2000 RH ₅₁		2 6.6 100°13	5°0/ 10.0	18	
1 2	9 44.21	+12 9.6	2.038	2.833	13.8	22.3	1 2	9 44.38	+ 1 4.7	1.684	2.451	17.4	19.0
1 12	9 39.24	+12 39.5	1.942	2.825	10.6	22.1	1 12	9 39.48	+ 0 58.2	1.614	2.467	14.1	18.8
1 22	9 31.98	+13 21.6	1.871	2.816	6.8	21.8	1 22	9 32.14	+ 1 13.6	1.564	2.483	10.3	18.6
2 1	9 23.00	+14 12.3	1.827	2.806	2.6	21.5	2 1	9 23.08	+ 1 50.3	1.539	2.498	6.6	18.4
2 11	9 13.23	+15 6.5	1.812	2.796	1.9	21.5	2 11	9 13.39	+ 2 44.3	1.541	2.513	5.0	18.4
2 21	9 3.74	+15 58.4	1.828	2.785	6.2	21.7	2 21	9 4.26	+ 3 49.5	1.572	2.528	7.2	18.5
3 2	8 55.55	+16 43.4	1.871	2.774	10.3	21.9	3 2	8 56.78	+ 4 58.5	1.629	2.543	10.8	18.8
3 12	8 49.51	+17 18.3	1.939	2.762	13.8	22.1	3 12	8 51.71	+ 6 4.6	1.709	2.557	14.3	19.0
148983	2001 YT ₃₉		2 6.6 73°99	0°9/ 5.9	18		132267	2002 EH ₁₃₁		2 6.6 246°12	1°1/ 7.3	18	
1 2	9 43.60	+16 14.2	1.810	2.624	14.5	20.0	1 2	9 44.87	+10 56.0	1.825	2.622	15.1	20.6
1 12	9 38.87	+16 42.0	1.736	2.630	11.0	19.8	1 12	9 40.06	+11 9.8	1.726	2.608	11.8	20.4
1 22	9 31.74	+17 18.7	1.685	2.636	6.9	19.6	1 22	9 32.70	+11 37.3	1.651	2.594	7.7	20.1
2 1	9 22.90	+17 59.6	1.661	2.642	2.5	19.3	2 1	9 23.37	+12 15.6	1.601	2.580	3.3	19.8
2 11	9 13.42	+18 38.8	1.666	2.649	2.5	19.3	2 11	9 13.08	+13 0.0	1.581	2.565	2.1	19.7
2 21	9 4.46	+19 11.2	1.699	2.655	6.9	19.6	2 21	9 3.05	+13 44.7	1.589	2.549	6.7	19.9
3 2	8 57.09	+19 33.4	1.759	2.661	10.9	19.8	3 2	8 54.46	+14 24.7	1.624	2.533	11.2	20.2
3 12	8 52.07	+19 43.8	1.842	2.667	14.3	20.1	3 12	8 48.26	+14 56.1	1.683	2.517	15.1	20.4
453272	2008 SJ ₃₀₀		2 6.6 155°41	0°9/ 7.1	18		308719	2006 GO ₅₂		2 6.6 263°82	5°6/ 2.9	18	
1 2	9 47.92	+11 35.9	1.834	2.627	15.2	22.4	1 2	9 48.04	+26 40.8	1.677	2.503	15.0	20.5
1 12	9 42.07	+11 50.5	1.755	2.635	11.7	22.1	1 12	9 42.99	+27 44.8	1.589	2.486	11.6	20.3
1 22	9 33.75	+12 17.6	1.700	2.643	7.6	21.9	1 22	9 34.81	+28 52.0	1.523	2.469	8.0	20.0
2 1	9 23.64	+12 53.4	1.671	2.650	3.1	21.6	2 1	9 24.20	+29 52.9	1.484	2.451	5.6	19.9
2 11	9 12.84	+13 33.0	1.673	2.656	2.0	21.6	2 11	9 12.42	+30 38.2	1.472	2.432	6.9	19.9
2 21	9 2.56	+14 11.1	1.703	2.662	6.5	21.9	2 21	9 1.00	+31 1.4	1.487	2.414	10.5	20.0
3 2	8 53.91	+14 43.4	1.761	2.666	10.7	22.1	3 2	8 51.47	+31 0.5	1.527	2.395	14.4	20.2
3 12	8 47.69	+15 7.1	1.843	2.670	14.3	22.4	3 12	8 44.93	+30 37.6	1.587	2.375	17.9	20.4
130702	2000 ST ₁₆₉		2 6.6 174°04	0°7/ 6.1	18		472560	2015 DE ₅₃		2 6.6 221°34	0°6/ 7.1	17	
1 2	9 47.08	+15 44.2	2.051	2.851	13.6	20.9	1 2	9 39.22	+10 50.0	2.475	3.266	11.8	21.6
1 12	9 41.29	+16 13.9	1.968	2.854	10.3	20.7	1 12	9 35.07	+11 26.2	2.383	3.262	9.1	21.4
1 22	9 33.20	+16 52.0	1.909	2.857	6.5	20.5	1 22	9 29.16	+12 13.7	2.315	3.258	5.9	21.2
2 1	9 23.45	+17 34.3	1.879	2.859	2.3	20.2	2 1	9 21.98	+13 9.3	2.275	3.254	2.3	20.9
2 11	9 13.02	+18 15.3	1.878	2.861	2.3	20.2	2 11	9 14.26	+14 8.6	2.265	3.249	1.5	20.8
2 21	9 3.03	+18 50.1	1.908	2.861	6.4	20.5	2 21	9 6.77	+15 7.0	2.286	3.245	5.1	21.1
3 2	8 54.49	+19 15.6	1.966	2.861	10.3	20.7	3 2	9 0.30	+16 0.1	2.336	3.240	8.4	21.3
3 12	8 48.17	+19 30.1	2.047	2.860	13.6	20.9	3 12	8 55.47	+16 44.9	2.411	3.236	11.4	21.5
194216	2001 TM ₁₃₃		2 6.6 76°84	1°7/ 5.5	18		455576	2004 RY ₁₅₃		2 6.6 125°84	1°8/ 7.7	18	
1 2	9 44.51	+15 24.6	1.404	2.230	17.3	20.6	1 2	9 47.78	+ 9 33.5	1.805	2.593	15.6	22.2
1 12	9 40.15	+16 28.9	1.342	2.243	13.1	20.4	1 12	9 41.91	+ 9 38.9	1.734	2.609	12.1	22.0
1 22	9 32.81	+17 47.4	1.302	2.256	8.1	20.1	1 22	9 33.62	+ 9 57.9	1.685	2.624	8.0	21.8
2 1	9 23.35	+19 12.0	1.287	2.268	3.0	19.8	2 1	9 23.63	+10 27.8	1.663	2.639	3.6	21.6
2 11	9 13.12	+20 32.4	1.300	2.281	3.5	19.9	2 11	9 13.04	+11 3.9	1.670	2.652	2.4	21.5
2 21	9 3.60	+21 40.1	1.340	2.294	8.5	20.2	2 21	9 3.05	+11 41.1	1.706	2.666	6.4	21.8
3 2	8 56.12	+22 29.7	1.405	2.307	13.1	20.5	3 2	8 54.71	+12 15.1	1.770	2.678	10.4	22.0
3 12	8 51.57	+22 59.6	1.491	2.320	16.9	20.8	3 12	8 48.80	+12 42.3	1.857	2.690	13.9	22.3
256160	2006 VZ ₅₀		2 6.6 96°34	2°0/ 7.8	18		385031	2012 TM ₃₀₂		2 6.6 67°55	1°7/ 5.2	18	
1 2	9 44.17	+ 9 26.4	1.803	2.598	15.4	20.5	1 2	9 41.26	+19 0.9	2.277	3.090	12.0	21.2
1 12	9 39.25	+ 9											

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
253167	2002 WY ₁₅		2 6.6 131°65	4.4/ 2.8	18		387708	2003 AW ₁₉		2 6.6 47°59	3.4/ 8.6	18	
1 2	9 46.98	+26 6.5	2.202	3.015	12.3	20.8	1 2	9 45.53	+7 25.6	1.937	2.718	15.0	20.5
1 12	9 41.15	+27 24.1	2.140	3.031	9.4	20.7	1 12	9 39.99	+6 44.3	1.870	2.737	11.8	20.4
1 22	9 33.07	+28 42.6	2.104	3.047	6.4	20.5	1 22	9 32.29	+6 15.3	1.826	2.756	8.2	20.2
2 1	9 23.42	+29 54.4	2.097	3.062	4.5	20.4	2 1	9 23.16	+5 58.2	1.808	2.776	4.7	20.0
2 11	9 13.21	+30 52.7	2.120	3.076	5.5	20.5	2 11	9 13.58	+5 51.3	1.819	2.796	3.5	20.0
2 21	9 3.52	+31 33.1	2.172	3.090	8.2	20.7	2 21	9 4.58	+5 52.0	1.859	2.816	6.2	20.2
3 2	8 55.33	+31 54.2	2.251	3.103	11.0	20.9	3 2	8 57.10	+5 57.1	1.927	2.837	9.6	20.4
3 12	8 49.36	+31 57.4	2.353	3.115	13.5	21.1	3 12	8 51.79	+6 3.1	2.019	2.858	12.7	20.7
379754	2011 GP ₈₄		2 6.6 206°99	0.7/ 7.2	18		505006	2011 MH ₉		2 6.6 236°66	3.4/ 9.2	17	
1 2	9 41.38	+11 26.8	2.449	3.238	12.0	21.7	1 2	9 41.44	+4 13.4	2.504	3.263	12.6	21.7
1 12	9 36.70	+11 47.0	2.356	3.234	9.2	21.5	1 12	9 36.72	+3 55.5	2.404	3.256	10.1	21.5
1 22	9 30.20	+12 17.0	2.287	3.230	6.0	21.3	1 22	9 30.22	+3 49.9	2.328	3.248	7.3	21.3
2 1	9 22.38	+12 54.4	2.247	3.225	2.4	21.1	2 1	9 22.44	+3 56.4	2.279	3.241	4.5	21.1
2 11	9 14.01	+13 35.3	2.237	3.221	1.6	21.0	2 11	9 14.08	+4 13.2	2.260	3.233	3.5	21.1
2 21	9 5.89	+14 15.6	2.257	3.215	5.2	21.2	2 21	9 5.95	+4 37.6	2.271	3.225	5.4	21.2
3 2	8 58.84	+14 51.8	2.306	3.210	8.6	21.4	3 2	8 58.82	+5 6.1	2.310	3.217	8.4	21.3
3 12	8 53.49	+15 21.2	2.380	3.204	11.5	21.6	3 12	8 53.33	+5 35.2	2.375	3.209	11.2	21.5
501421	2013 YK ₁₃₂		2 6.6 211°88	5.4/ 31.3	17		328372	2008 QH ₁₉		2 6.6 200°67	2.2/ 8.7	17	
1 2	9 43.07	+33 10.9	2.889	3.698	9.8	21.3	1 2	9 41.37	+5 28.5	2.783	3.541	11.4	22.7
1 12	9 38.02	+34 30.3	2.811	3.692	7.8	21.1	1 12	9 36.50	+5 46.3	2.681	3.537	9.0	22.5
1 22	9 31.06	+35 47.0	2.760	3.685	6.1	21.0	1 22	9 30.01	+6 16.4	2.604	3.531	6.3	22.3
2 1	9 22.72	+36 54.8	2.738	3.678	5.4	21.0	2 1	9 22.35	+6 57.4	2.556	3.525	3.4	22.1
2 11	9 13.75	+37 48.2	2.746	3.670	6.3	21.0	2 11	9 14.17	+7 46.3	2.539	3.518	2.3	22.0
2 21	9 5.03	+38 23.9	2.783	3.662	8.1	21.1	2 21	9 6.17	+8 39.2	2.552	3.510	4.7	22.2
3 2	8 57.40	+38 40.7	2.845	3.654	10.2	21.2	3 2	8 59.08	+9 32.2	2.596	3.502	7.6	22.3
3 12	8 51.53	+38 39.8	2.929	3.645	12.1	21.4	3 12	8 53.46	+10 21.8	2.666	3.493	10.4	22.5
135116	2001 QD ₁₁₅		2 6.6 49°46	0.8/ 7.2	18		18904	2000 OY ₈		2 6.6 90°59	0.0/ 6.4	18	
1 2	9 42.75	+12 44.4	2.211	3.006	12.9	18.9	1 2	9 48.10	+13 33.4	1.624	2.430	16.3	18.3
1 12	9 37.83	+12 40.6	2.127	3.009	9.9	18.7	1 12	9 42.33	+13 57.5	1.566	2.454	12.3	18.1
1 22	9 30.94	+12 45.2	2.068	3.012	6.4	18.5	1 22	9 33.94	+14 33.3	1.530	2.477	7.8	17.8
2 1	9 22.66	+12 56.0	2.036	3.015	2.6	18.2	2 1	9 23.79	+15 15.8	1.520	2.500	2.8	17.6
2 11	9 13.85	+13 9.8	2.034	3.018	1.7	18.2	2 11	9 13.12	+15 58.7	1.539	2.523	2.2	17.6
2 21	9 5.43	+13 23.4	2.061	3.021	5.5	18.4	2 21	9 3.22	+16 36.4	1.586	2.545	6.9	17.9
3 2	8 58.27	+13 34.1	2.117	3.024	9.0	18.6	3 2	8 55.22	+17 4.9	1.661	2.566	11.2	18.2
3 12	8 53.02	+13 39.8	2.197	3.027	12.2	18.8	3 12	8 49.86	+17 22.3	1.758	2.587	14.7	18.5
206735	2004 BP ₁₁₈		2 6.6 49°67	1.4/ 5.5	18		50960	2000 GN ₈₂		2 6.6 69°01	1.6/ 8.1	18	
1 2	9 40.83	+16 28.6	1.890	2.708	13.9	19.9	1 2	9 39.41	+7 19.7	2.113	2.899	13.7	18.3
1 12	9 36.66	+17 20.7	1.827	2.723	10.4	19.7	1 12	9 35.40	+7 56.0	2.036	2.910	10.6	18.1
1 22	9 30.30	+18 21.9	1.787	2.740	6.4	19.5	1 22	9 29.46	+8 47.6	1.982	2.920	7.1	17.9
2 1	9 22.44	+19 26.3	1.775	2.756	2.4	19.3	2 1	9 22.16	+9 51.3	1.956	2.931	3.3	17.7
2 11	9 14.05	+20 27.3	1.792	2.773	2.8	19.4	2 11	9 14.34	+11 1.8	1.959	2.942	2.0	17.6
2 21	9 6.19	+21 19.1	1.838	2.790	6.7	19.7	2 21	9 6.90	+12 13.4	1.991	2.952	5.5	17.9
3 2	8 59.81	+21 58.2	1.910	2.807	10.4	19.9	3 2	9 0.67	+13 20.4	2.052	2.963	9.1	18.1
3 12	8 55.58	+22 22.9	2.005	2.824	13.6	20.1	3 12	8 56.32	+14 18.7	2.137	2.974	12.2	18.3
78629	2002 TK ₂₆		2 6.6 68°68	4.9/ 2.7	18		465205	2007 MY ₂₁		2 6.6 286°08	4.7/ 10.7	18	
1 2	9 43.96	+27 55.5	2.093	2.915	12.5	19.0	1 2	9 38.83	-1 3.0	2.024	2.778	15.3	21.1
1 12	9 38.97	+28 57.6	2.033	2.928	9.6	18.8	1 12	9 35.18	-0 48.1	1.929	2.771	12.6	20.9
1 22	9 31.74	+29 58.7	1.999	2.942	6.7	18.7	1 22	9 29.46	-0 11.2	1.854	2.765	9.4	20.7
2 1	9 22.95	+30 51.8	1.992	2.955	4.9	18.6	2 1	9 22.21	+0 47.4	1.805	2.759	6.3	20.5
2 11	9 13.66	+31 30.7	2.014	2.969	5.8	18.6	2 11	9 14.26	+2 4.2	1.783	2.753	4.7	20.4
2 21	9 4.93	+31 51.7	2.064	2.982	8.5	18.8	2 21	9 6.56	+3 33.3	1.790	2.747	6.5	20.5
3 2	8 57.75	+31 54.0	2.139	2.996	11.3	19.0	3 2	9 0.03	+5 7.3	1.825	2.741	9.7	20.6
3 12	8 52.80	+31 39.3	2.237	3.010	13.8	19.2	3 12	8 55.45	+6 38.7	1.886	2.735	13.0	20.8
391474	2007 HN ₂₉		2 6.6 199°46	4.7/ 2.5	17 R		258276	2001 UG ₁₂		2 6.6 91°43	0.0/ 6.5	18	
1 2	9 46.31	+29 38.7	2.553	3.361	11.0	21.0	1 2	9 45.02	+13 48.5	1.871	2.675	14.5	21.0
1 12	9 40.53	+30 33.0	2.472	3.358	8.5	20.8	1 12	9 39.79	+14 9.1	1.804	2.692	11.0	20.8
1 22	9 32.66	+31 25.6	2.417	3.353	6.1	20.6	1 22	9 32.28	+14 39.8	1.760	2.708	7.0	20.6
2 1	9 23.31	+32 10.5	2.391	3.349	4.7	20.5	2 1	9 23.19	+15 16.5	1.744	2.724	2.6	20.4
2 11	9 13.35	+32 42.4	2.395	3.343	5.5	20.6	2 11	9 13.58	+15 54.1	1.756	2.740	2.0	20.3
2 21	9 3.76	+32 57.9	2.428	3.338	7.8	20.7	2 21	9 4.55	+16 27.6	1.798	2.756	6.3	20.7
3 2	8 55.46	+32 56.3	2.488	3.331	10.4	20.9	3 2	8 57.10	+16 53.5	1.866	2.771	10.2	20.9
3 12	8 49.15	+32 38.8	2.571	3.324	12.7	21.0	3 12	8 51.91	+17 9.9	1.959	2.786	13.5	21.2
456820	2007 TA ₃₉₃		2 6.6 53°89	0.9/ 6.1	18		136339	2004 CW ₁₄		2 6.6 167°41	0.3/ 6.9	18	
1 2	9 46.14	+15 31.1	1.334	2.161	18.0	21.4	1 2	9 39.34	+10 54.4	2.587	3.376	11.4	20.2
1 12	9 41.31	+16 0.1	1.283	2.183	13.6	21.2	1 12	9 35.09	+11 46.4	2.499	3.378	8.7	20.0
1 22	9 33.47	+16 40.9	1.253	2.206	8.5	21.0	1 22	9 29.17	+12 49.6	2.436	3.380	5.6	19.8
2 1	9 23.62	+17 27.1	1.247	2.228	3.0	20.7	2 1	9 22.06	+14 0.5	2.403	3.382	2.1	19.6
2 11	9 13.19	+18 10.9	1.268	2.251	2.9	20.8	2 11	9 14.44	+15 14.2	2.400	3.384	1.5	19.5
2 21	9 3.70	+18 45.8	1.316	2.275	8.0	21.1	2 21	9 7.06	+16 25.6	2.428	3.385	5.0	19.8
3 2	8 56.42	+19 8.0	1.388	2.298	12.6	21.5	3 2	9 0.66	+17 30.3	2.485	3.386	8.2	20.0
3 12	8 52.12	+19 16.3	1.482	2.322	16.5	21.8	3 12	8 55.82	+18 25.2	2.569	3.387	11.0	20.2
279076	2008 WM ₈₃		2 6.6 141°86	2.7/ 4.1	18		245960	2006 SF ₅₇		2 6.6 130°50	4.6/ 11.1	18	
1 2	9 41.61	+21 12.0	2.333	3.148	11.7	20.3	1 2	9 39.49	-2 8.8	2.757	3.482	12.3	20.7
1 12	9 37.02	+22 14.1	2.257	3.152	8.8								

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
353997	2000 SA ₁₈₄		2 6.6 182°51	2°8/ 8.5 18			165815	2001 RF ₁₀₀		2 6.6 144°66	2°6/ 4.3 18		
1 2	9 45.88	+ 6 42.2	1.903	2.681	15.3	21.4	1 2	9 43.62	+23 27.0	2.622	3.430	10.7	20.2
1 12	9 40.58	+ 6 39.6	1.815	2.682	12.1	21.2	1 12	9 38.28	+24 2.0	2.547	3.437	8.1	20.1
1 22	9 32.90	+ 6 52.3	1.750	2.682	8.3	20.9	1 22	9 31.14	+24 38.7	2.497	3.444	5.2	19.9
2 1	9 23.48	+ 7 18.7	1.711	2.682	4.5	20.7	2 1	9 22.77	+25 12.3	2.477	3.451	2.9	19.8
2 11	9 13.32	+ 7 55.4	1.701	2.681	3.1	20.6	2 11	9 13.95	+25 38.8	2.487	3.457	3.5	19.8
2 21	9 3.53	+ 8 37.4	1.720	2.680	6.4	20.8	2 21	9 5.53	+25 55.0	2.527	3.463	6.2	20.0
3 2	8 55.19	+ 9 19.7	1.767	2.678	10.3	21.0	3 2	8 58.26	+25 59.7	2.595	3.469	8.9	20.2
3 12	8 49.12	+ 9 57.9	1.839	2.675	13.9	21.3	3 12	8 52.76	+25 52.9	2.688	3.474	11.4	20.4
35897	1999 JU ₈₅		2 6.6 84°98	1°6/ 7.7 18			380416	2003 BT ₄		2 6.6 51°09	3°7/ 9.0 18		
1 2	9 43.77	+ 8 14.6	1.545	2.347	17.2	18.7	1 2	9 45.15	+ 5 32.1	1.941	2.715	15.2	21.0
1 12	9 39.30	+ 8 51.2	1.479	2.362	13.3	18.5	1 12	9 39.62	+ 4 58.6	1.882	2.743	12.0	20.9
1 22	9 32.19	+ 9 47.0	1.434	2.377	8.7	18.3	1 22	9 32.02	+ 4 39.4	1.846	2.772	8.5	20.7
2 1	9 23.22	+10 57.4	1.415	2.392	3.8	18.0	2 1	9 23.08	+ 4 34.1	1.837	2.801	5.1	20.6
2 11	9 13.56	+12 14.9	1.423	2.407	2.3	17.9	2 11	9 13.77	+ 4 40.2	1.856	2.831	3.8	20.6
2 21	9 4.53	+13 31.5	1.459	2.422	6.9	18.3	2 21	9 5.09	+ 4 54.6	1.904	2.860	6.2	20.8
3 2	8 57.27	+14 39.9	1.522	2.436	11.4	18.5	3 2	8 57.93	+ 5 13.2	1.979	2.889	9.4	21.0
3 12	8 52.62	+15 35.5	1.608	2.450	15.2	18.8	3 12	8 52.89	+ 5 32.2	2.079	2.919	12.4	21.3
48408	1982 VN ₂		2 6.6 65°95	2°3/ 5.6 18			109179	2001 QX ₆₆		2 6.6 201°57	2°0/ 8.3 18		
1 2	9 51.75	+21 28.2	1.554	2.373	16.3	18.1	1 2	9 42.49	+ 6 50.0	2.237	3.011	13.4	20.8
1 12	9 45.20	+21 30.8	1.497	2.393	12.3	17.9	1 12	9 37.75	+ 7 13.3	2.141	3.008	10.5	20.6
1 22	9 35.78	+21 36.2	1.462	2.413	7.8	17.7	1 22	9 31.00	+ 7 51.3	2.070	3.003	7.1	20.4
2 1	9 24.46	+21 38.8	1.454	2.433	3.3	17.5	2 1	9 22.79	+ 8 41.8	2.026	2.999	3.6	20.2
2 11	9 12.67	+21 33.7	1.474	2.454	3.6	17.5	2 11	9 13.91	+ 9 40.6	2.011	2.993	2.3	20.1
2 21	9 1.87	+21 18.1	1.523	2.474	7.9	17.8	2 21	9 5.28	+10 42.6	2.027	2.987	5.5	20.3
3 2	8 53.26	+20 51.8	1.597	2.495	12.1	18.1	3 2	8 57.80	+11 42.6	2.072	2.980	9.1	20.5
3 12	8 47.59	+20 16.3	1.694	2.515	15.6	18.4	3 12	8 52.19	+12 36.4	2.142	2.973	12.4	20.7
109657	2001 RQ ₁₀		2 6.6 75°29	3°4/ 8.6 18			521009	2015 CW ₆₆		2 6.6 177°06	2°5/ 4.4 17		
1 2	9 45.87	+ 6 50.9	1.757	2.541	16.1	18.7	1 2	9 43.48	+23 42.6	2.802	3.608	10.2	21.3
1 12	9 40.54	+ 6 24.3	1.686	2.555	12.7	18.5	1 12	9 38.09	+24 8.7	2.720	3.609	7.7	21.1
1 22	9 32.81	+ 6 12.3	1.638	2.570	8.8	18.3	1 22	9 30.99	+24 35.9	2.663	3.610	5.0	20.9
2 1	9 23.41	+ 6 14.1	1.615	2.584	5.0	18.1	2 1	9 22.72	+25 0.2	2.636	3.611	2.7	20.8
2 11	9 13.43	+ 6 27.2	1.620	2.598	3.6	18.1	2 11	9 14.01	+25 17.8	2.640	3.611	3.3	20.8
2 21	9 4.04	+ 6 47.4	1.653	2.612	6.6	18.3	2 21	9 5.63	+25 26.2	2.674	3.611	5.8	21.0
3 2	8 56.28	+ 7 10.5	1.714	2.626	10.4	18.5	3 2	8 58.34	+25 24.1	2.737	3.611	8.5	21.2
3 12	8 50.91	+ 7 32.3	1.798	2.640	13.9	18.8	3 12	8 52.70	+25 11.7	2.824	3.610	10.9	21.3
338895	2004 CD ₄₈		2 6.6 287°01	1°7/ 5.8 18			399554	2003 SB		2 6.6 106°52	7°4/ 12.3 18		
1 2	9 46.94	+17 44.9	1.343	2.173	17.8	20.4	1 2	9 46.75	- 6 25.7	2.015	2.724	16.7	21.5
1 12	9 42.49	+18 6.9	1.262	2.164	13.6	20.1	1 12	9 40.88	- 7 1.6	1.948	2.750	14.1	21.3
1 22	9 34.68	+18 39.5	1.201	2.155	8.6	19.8	1 22	9 32.88	- 7 14.8	1.901	2.776	11.3	21.2
2 1	9 24.27	+19 16.5	1.165	2.146	3.3	19.4	2 1	9 23.43	- 7 3.8	1.878	2.800	8.7	21.1
2 11	9 12.68	+19 49.8	1.155	2.137	3.5	19.4	2 11	9 13.49	- 6 30.1	1.883	2.824	7.4	21.1
2 21	9 1.62	+20 12.8	1.171	2.128	9.0	19.7	2 21	9 4.08	- 5 37.9	1.916	2.847	8.1	21.2
3 2	8 52.71	+20 21.5	1.212	2.120	14.2	20.0	3 2	8 56.14	- 4 33.5	1.976	2.870	10.3	21.3
3 12	8 47.08	+20 15.2	1.272	2.111	18.7	20.2	3 12	8 50.34	- 3 24.1	2.061	2.891	12.8	21.5
21438	Camibarnett		2 6.6 158°19	0°5/ 6.9 18			491976	2013 EF ₁₆		2 6.6 26°19	2°6/ 5.3 18		
1 2	9 44.45	+11 43.0	1.789	2.591	15.2	18.8	1 2	9 43.07	+18 13.0	1.145	1.992	19.0	20.5
1 12	9 39.63	+12 11.4	1.709	2.595	11.7	18.5	1 12	9 39.66	+18 57.1	1.089	2.000	14.4	20.2
1 22	9 32.35	+12 53.4	1.652	2.598	7.5	18.3	1 22	9 32.83	+19 53.0	1.052	2.009	9.0	19.9
2 1	9 23.29	+13 44.9	1.621	2.601	2.9	18.0	2 1	9 23.54	+20 51.9	1.039	2.020	3.7	19.7
2 11	9 13.50	+14 40.1	1.620	2.604	2.0	18.0	2 11	9 13.40	+21 43.7	1.051	2.031	4.4	19.7
2 21	9 4.14	+15 32.7	1.647	2.606	6.6	18.3	2 21	9 4.15	+22 20.5	1.087	2.043	9.6	20.1
3 2	8 56.35	+16 17.7	1.701	2.608	10.9	18.5	3 2	8 57.32	+22 38.2	1.145	2.056	14.6	20.4
3 12	8 50.93	+16 51.8	1.778	2.610	14.5	18.7	3 12	8 53.84	+22 36.9	1.223	2.070	18.8	20.7
188487	2004 PB ₂₂		2 6.6 126°49	0°2/ 6.4 18			246888	1997 CE ₁₄		2 6.6 285°99	1°3/ 5.7 17		
1 2	9 42.93	+13 28.2	2.225	3.021	12.8	21.1	1 2	9 44.19	+19 38.2	2.446	3.250	11.5	20.6
1 12	9 37.96	+14 8.5	2.150	3.034	9.7	20.9	1 12	9 38.99	+19 44.7	2.341	3.230	8.8	20.4
1 22	9 31.04	+14 58.6	2.100	3.047	6.1	20.7	1 22	9 31.78	+19 54.8	2.261	3.209	5.6	20.2
2 1	9 22.74	+15 54.5	2.078	3.059	2.2	20.5	2 1	9 23.08	+20 4.9	2.209	3.189	2.2	19.9
2 11	9 13.95	+16 50.7	2.087	3.070	1.8	20.5	2 11	9 13.71	+20 11.6	2.188	3.168	2.4	19.9
2 21	9 5.55	+17 42.4	2.126	3.081	5.7	20.7	2 21	9 4.56	+20 11.8	2.197	3.147	5.9	20.1
3 2	8 58.43	+18 25.7	2.193	3.092	9.2	21.0	3 2	8 56.55	+20 4.0	2.234	3.127	9.3	20.2
3 12	8 53.21	+18 58.3	2.285	3.102	12.2	21.2	3 12	8 50.39	+19 47.6	2.296	3.106	12.4	20.4
241513	2009 DG ₄₈		2 6.6 227°44	2°5/ 4.3 18			12331	1992 UH ₆		2 6.6 119°52	3°8/ 4.2 18		
1 2	9 41.17	+21 56.7	2.566	3.377	10.8	21.0	1 2	9 50.04	+21 57.4	1.618	2.438	15.7	17.7
1 12	9 36.58	+22 41.4	2.479	3.373	8.2	20.8	1 12	9 44.07	+23 3.2	1.559	2.455	11.8	17.5
1 22	9 30.16	+23 29.7	2.419	3.368	5.2	20.6	1 22	9 35.22	+24 14.3	1.522	2.472	7.6	17.3
2 1	9 22.44	+24 16.9	2.387	3.363	2.7	20.4	2 1	9 24.35	+25 21.8	1.513	2.488	4.1	17.2
2 11	9 14.17	+24 58.0	2.385	3.358	3.4	20.4	2 11	9 12.79	+26 16.9	1.532	2.504	5.1	17.2
2 21	9 6.18	+25 29.5	2.414	3.352	6.3	20.6	2 21	9 2.01	+26 54.0	1.580	2.518	8.9	17.5
3 2	8 59.28	+25 48.9	2.469	3.347	9.2	20.8	3 2	8 53.28	+27 10.9	1.653	2.532	12.8	17.8
3 12	8 54.10	+25 55.8	2.550	3.341	11.8	21.0	3 12	8 47.43	+27 9.2	1.747	2.546	16.1	18.0
380496	2004 CV ₁₁₀		2 6.6 28°44	0°1/ 6.5 18			159589	2001 XK ₁₁₅		2 6.6 116°28	3°7/ 4.2 18		
1 2	9 38.97	+12 31.8	1.847	2.659	14.4	20.4	1 2	9 49.88	+22 50.7	1.734	2.551	14.9	19.7
1 12	9 35.38	+13 19.0	1.										

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
323985	2005 <i>US</i> ₁₈₉		2 6.6 221°67	0°5/ 7.0 17			183588	2003 <i>SY</i> ₂₅₇		2 6.6 110°33	1°8/ 5.4 18		
1 2	9 43.21	+12 20.8	2.053	2.851	13.7	21.7	1 2	9 47.68	+18 0.0	1.855	2.665	14.4	21.4
1 12	9 38.47	+12 38.6	1.963	2.846	10.5	21.5	1 12	9 41.87	+18 45.1	1.793	2.685	10.8	21.2
1 22	9 31.55	+13 7.5	1.896	2.841	6.8	21.3	1 22	9 33.64	+19 37.5	1.755	2.705	6.8	21.0
2 1	9 23.01	+13 44.1	1.857	2.836	2.7	21.0	2 1	9 23.77	+20 31.1	1.744	2.724	2.7	20.8
2 11	9 13.78	+14 24.1	1.847	2.831	1.8	20.9	2 11	9 13.36	+21 19.2	1.763	2.742	3.1	20.8
2 21	9 4.86	+15 2.6	1.866	2.825	6.0	21.2	2 21	9 3.60	+21 56.8	1.811	2.760	7.1	21.1
3 2	8 57.26	+15 35.5	1.913	2.819	9.9	21.4	3 2	8 55.53	+22 21.0	1.886	2.778	10.9	21.4
3 12	8 51.73	+16 0.1	1.984	2.813	13.3	21.6	3 12	8 49.88	+22 31.5	1.985	2.795	14.1	21.6
338925	2004 <i>EZ</i> ₂₇		2 6.6 358°85	0°3/ 6.8 18			221987	1997 <i>CS</i> ₁₂		2 6.6 22°40	0°0/ 6.6 18		
1 2	9 39.80	+13 3.1	1.914	2.724	14.0	20.6	1 2	9 40.13	+12 16.4	1.640	2.457	15.7	20.0
1 12	9 35.99	+13 23.3	1.832	2.723	10.7	20.4	1 12	9 36.56	+12 55.8	1.567	2.461	12.0	19.8
1 22	9 30.01	+13 54.7	1.773	2.722	6.8	20.1	1 22	9 30.51	+13 50.0	1.516	2.466	7.6	19.5
2 1	9 22.44	+14 33.8	1.741	2.721	2.6	19.9	2 1	9 22.68	+14 54.0	1.491	2.472	2.8	19.2
2 11	9 14.24	+15 15.5	1.737	2.721	1.9	19.8	2 11	9 14.15	+16 0.8	1.494	2.478	2.1	19.2
2 21	9 6.41	+15 54.9	1.761	2.722	6.2	20.1	2 21	9 6.10	+17 3.1	1.525	2.485	6.9	19.5
3 2	8 59.95	+16 27.7	1.812	2.723	10.1	20.3	3 2	8 59.65	+17 55.4	1.581	2.492	11.3	19.8
3 12	8 55.59	+16 51.1	1.887	2.724	13.6	20.5	3 12	8 55.61	+18 34.1	1.660	2.500	15.0	20.0
117710	2005 <i>FC</i> ₇		2 6.6 163°58	2°8/ 9.4 18			3823	Yorii		2 6.6 4°22	1°7/ 5.5 18		
1 2	9 39.26	+ 3 16.8	2.522	3.281	12.5	19.9	1 2	9 37.02	+16 17.9	1.469	2.307	16.1	16.5
1 12	9 35.04	+ 3 38.5	2.432	3.284	9.9	19.8	1 12	9 34.52	+17 6.8	1.399	2.306	12.1	16.3
1 22	9 29.16	+ 4 15.3	2.364	3.287	7.0	19.6	1 22	9 29.37	+18 8.3	1.352	2.308	7.6	16.0
2 1	9 22.09	+ 5 5.7	2.324	3.289	4.1	19.4	2 1	9 22.30	+19 15.7	1.329	2.310	2.9	15.7
2 11	9 14.52	+ 6 6.2	2.314	3.291	2.9	19.3	2 11	9 14.46	+20 20.7	1.332	2.314	3.3	15.8
2 21	9 7.21	+ 7 12.3	2.335	3.293	5.0	19.5	2 21	9 7.14	+21 15.7	1.362	2.319	8.0	16.1
3 2	9 0.88	+ 8 19.1	2.384	3.295	8.0	19.6	3 2	9 1.56	+21 55.5	1.416	2.326	12.5	16.3
3 12	8 56.12	+ 9 22.1	2.460	3.296	10.8	19.8	3 12	8 58.56	+22 17.8	1.491	2.333	16.3	16.6
461774	2005 <i>US</i> ₃₈₆		2 6.6 49°28	11°8/19.3 18			61791	2000 <i>QV</i> ₁₈₂		2 6.6 182°45	4°0/ 3.2 18		
1 2	9 40.57	-19 50.8	1.641	2.293	21.9	20.2	1 2	9 45.98	+27 0.2	2.505	3.314	11.1	19.7
1 12	9 36.70	-20 4.7	1.585	2.323	19.5	20.1	1 12	9 40.29	+27 52.0	2.426	3.315	8.5	19.5
1 22	9 30.44	-19 40.2	1.543	2.354	16.8	20.0	1 22	9 32.56	+28 43.8	2.373	3.315	5.8	19.3
2 1	9 22.57	-18 33.8	1.520	2.385	14.3	19.9	2 1	9 23.39	+29 29.8	2.349	3.314	4.0	19.2
2 11	9 14.21	-16 47.6	1.519	2.416	12.4	19.9	2 11	9 13.64	+30 4.7	2.356	3.314	4.8	19.3
2 21	9 6.51	-14 29.4	1.542	2.447	11.8	19.9	2 21	9 4.26	+30 25.0	2.391	3.312	7.3	19.4
3 2	9 0.52	-11 51.2	1.591	2.478	12.8	20.0	3 2	8 56.17	+30 29.5	2.455	3.310	10.1	19.6
3 12	8 56.90	- 9 6.7	1.665	2.509	14.7	20.2	3 12	8 50.03	+30 19.2	2.541	3.307	12.5	19.8
102072	1999 <i>RE</i> ₁₄₀		2 6.6 260°66	0°6/ 7.1 17			413857	2006 <i>TW</i> ₈₀		2 6.6 154°92	2°2/ 8.3 18		
1 2	9 43.92	+13 51.7	2.533	3.322	11.6	19.5	1 2	9 44.76	+ 7 34.3	2.138	2.914	13.9	22.0
1 12	9 38.57	+13 39.0	2.437	3.316	8.9	19.3	1 12	9 39.45	+ 7 38.7	2.055	2.922	10.9	21.8
1 22	9 31.39	+13 32.3	2.366	3.309	5.8	19.1	1 22	9 32.06	+ 7 56.4	1.995	2.928	7.4	21.6
2 1	9 22.92	+13 29.8	2.324	3.303	2.3	18.9	2 1	9 23.21	+ 8 25.4	1.962	2.934	3.8	21.4
2 11	9 13.90	+13 29.1	2.312	3.296	1.6	18.8	2 11	9 13.77	+ 9 2.2	1.959	2.940	2.5	21.3
2 21	9 5.18	+13 28.0	2.331	3.289	5.1	19.0	2 21	9 4.72	+ 9 42.4	1.986	2.945	5.7	21.5
3 2	8 57.56	+13 24.5	2.379	3.282	8.4	19.2	3 2	8 56.97	+10 21.6	2.041	2.950	9.3	21.7
3 12	8 51.66	+13 17.2	2.453	3.275	11.3	19.4	3 12	8 51.21	+10 56.2	2.121	2.954	12.5	21.9
76667	2000 <i>HW</i> ₄₂		2 6.6 89°58	4°4/10.5 18			366876	2005 <i>SZ</i> ₂₁₁		2 6.6 132°00	1°1/ 7.5 18		
1 2	9 39.89	- 0 1.4	2.284	3.032	13.9	19.3	1 2	9 43.49	+10 28.8	2.064	2.855	13.8	22.0
1 12	9 35.62	- 0 2.8	2.204	3.044	11.3	19.1	1 12	9 38.56	+10 46.5	1.986	2.864	10.6	21.8
1 22	9 29.55	+ 0 13.3	2.146	3.055	8.4	19.0	1 22	9 31.53	+11 16.4	1.930	2.872	6.9	21.6
2 1	9 22.24	+ 0 46.2	2.114	3.066	5.7	18.8	2 1	9 23.02	+11 55.3	1.902	2.880	3.0	21.4
2 11	9 14.44	+ 1 33.3	2.110	3.077	4.4	18.8	2 11	9 13.93	+12 38.8	1.904	2.887	1.9	21.3
2 21	9 6.99	+ 2 30.3	2.136	3.089	5.9	18.9	2 21	9 5.27	+13 22.1	1.935	2.895	5.7	21.6
3 2	9 0.67	+ 3 32.0	2.189	3.100	8.6	19.0	3 2	8 57.94	+14 0.9	1.994	2.901	9.5	21.8
3 12	8 56.08	+ 4 33.0	2.268	3.110	11.4	19.2	3 12	8 52.65	+14 32.2	2.077	2.908	12.7	22.1
250998	2006 <i>OY</i> ₇		2 6.6 192°57	1°4/ 5.6 18			508749	2017 <i>UA</i> ₃₆		2 6.6 209°25	3°8/ 2.7 17		
1 2	9 45.93	+17 29.6	2.153	2.956	12.9	21.5	1 2	9 44.15	+29 34.6	3.141	3.945	9.2	22.4
1 12	9 40.47	+18 8.9	2.066	2.954	9.8	21.3	1 12	9 38.58	+30 17.1	3.054	3.938	7.1	22.2
1 22	9 32.79	+18 55.7	2.003	2.952	6.1	21.0	1 22	9 31.34	+30 57.9	2.994	3.930	5.1	22.1
2 1	9 23.48	+19 45.1	1.969	2.949	2.4	20.8	2 1	9 22.92	+31 32.4	2.964	3.922	3.8	22.0
2 11	9 13.48	+20 31.5	1.965	2.945	2.7	20.8	2 11	9 14.01	+31 56.7	2.964	3.914	4.5	22.0
2 21	9 3.82	+21 10.0	1.991	2.941	6.5	21.0	2 21	9 5.37	+32 8.3	2.995	3.905	6.5	22.1
3 2	8 55.51	+21 37.4	2.045	2.935	10.2	21.2	3 2	8 57.73	+32 6.3	3.053	3.895	8.7	22.3
3 12	8 49.31	+21 52.4	2.123	2.930	13.4	21.4	3 12	8 51.67	+31 51.4	3.135	3.885	10.7	22.4
292648	2006 <i>UB</i> ₄₄		2 6.6 106°82	1°1/ 6.0 15			385620	2005 <i>MA</i> ₂₆		2 6.6 173°75	2°0/ 4.5 17		
1 2	9 50.09	+15 30.2	1.439	2.254	17.5	22.2	1 2	9 40.64	+20 35.0	3.010	3.814	9.6	21.9
1 12	9 44.26	+16 7.5	1.379	2.273	13.3	22.0	1 12	9 35.92	+21 28.1	2.927	3.816	7.2	21.8
1 22	9 35.41	+16 56.7	1.341	2.292	8.3	21.7	1 22	9 29.65	+22 25.1	2.870	3.819	4.6	21.6
2 1	9 24.45	+17 51.0	1.329	2.310	3.0	21.4	2 1	9 22.29	+23 21.8	2.844	3.820	2.2	21.4
2 11	9 12.81	+18 42.3	1.345	2.327	2.9	21.5	2 11	9 14.49	+24 13.8	2.848	3.822	2.8	21.5
2 21	9 2.01	+19 23.7	1.388	2.344	8.0	21.8	2 21	9 6.92	+24 57.7	2.884	3.823	5.4	21.7
3 2	8 53.40	+19 51.5	1.457	2.360	12.6	22.1	3 2	9 0.26	+25 31.1	2.949	3.823	8.0	21.8
3 12	8 47.81	+20 4.6	1.548	2.376	16.5	22.4	3 12	8 55.04	+25 53.1	3.039	3.823	10.3	22.0
375037	2007 <i>HU</i> ₆₃		2 6.6 155°13	3°6/ 3.9 18			357190	2002 <i>ET</i> ₁₅₀		2 6.6 309°47	0°1/ 6.7 16		
1 2	9 43.81	+23 22.0	2.006	2.826	13.1	20.9	1 2	9 42.26	+12 55.2	1.420	2.		

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
142887	2002 <i>VH</i> ₄₃		2 6.6	78°72	1.4/ 7.6	18	383412	2006 <i>UL</i> ₁₉₄		2 6.7	267°63	2.7/ 9.0	17
1 2	9 42.54	+ 9 5.4	1.698	2.498	15.9	20.2	1 2	9 39.16	+ 5 4.6	2.499	3.267	12.3	21.4
1 12	9 38.24	+ 9 36.1	1.626	2.509	12.3	20.0	1 12	9 35.08	+ 5 8.3	2.399	3.258	9.8	21.2
1 22	9 31.51	+10 23.4	1.576	2.519	8.1	19.8	1 22	9 29.27	+ 5 25.3	2.322	3.248	6.9	21.0
2 1	9 23.05	+11 23.4	1.552	2.530	3.5	19.5	2 1	9 22.21	+ 5 54.4	2.272	3.239	4.0	20.8
2 11	9 13.93	+12 29.9	1.556	2.540	2.1	19.4	2 11	9 14.59	+ 6 33.1	2.252	3.230	2.8	20.7
2 21	9 5.32	+13 35.8	1.589	2.551	6.5	19.7	2 21	9 7.16	+ 7 17.5	2.262	3.221	5.1	20.8
3 2	8 58.31	+14 35.0	1.648	2.561	10.8	20.0	3 2	9 0.70	+ 8 3.8	2.300	3.211	8.2	21.0
3 12	8 53.66	+15 23.3	1.731	2.572	14.4	20.3	3 12	8 55.83	+ 8 47.7	2.364	3.202	11.1	21.2
928	Hildrun		2 6.6	347°94	1.2/ 5.6	18	501429	2013 <i>YH</i> ₁₄₉		2 6.7	16°70	2.0/ 4.8	17
1 2	9 37.38	+13 25.6	1.882	2.699	14.0	14.2	1 2	9 37.93	+15 8.2	1.806	2.628	14.2	20.4
1 12	9 34.34	+14 47.0	1.797	2.693	10.6	14.0	1 12	9 34.79	+16 42.6	1.733	2.633	10.7	20.2
1 22	9 29.09	+16 23.8	1.736	2.688	6.6	13.7	1 22	9 29.37	+18 30.8	1.685	2.638	6.6	19.9
2 1	9 22.20	+18 9.8	1.703	2.684	2.4	13.5	2 1	9 22.30	+20 25.3	1.664	2.645	2.7	19.7
2 11	9 14.55	+19 56.4	1.699	2.680	2.7	13.5	2 11	9 14.53	+22 16.3	1.673	2.651	3.5	19.8
2 21	9 7.18	+21 35.0	1.724	2.677	7.0	13.7	2 21	9 7.14	+23 55.2	1.710	2.659	7.5	20.0
3 2	9 1.11	+22 59.0	1.775	2.674	11.0	14.0	3 2	9 1.16	+25 15.9	1.774	2.667	11.4	20.3
3 12	8 57.16	+24 4.5	1.851	2.672	14.4	14.2	3 12	8 57.38	+26 15.6	1.861	2.675	14.7	20.5
15648	6115 <i>P-L</i>		2 6.6	31°84	1.7/ 5.9	18	11225	Borden		2 6.7	100°85	1.7/ 7.8	18
1 2	9 47.68	+18 21.6	1.282	2.114	18.3	18.6	1 2	9 44.66	+ 8 41.5	1.608	2.406	16.8	18.3
1 12	9 42.95	+18 33.9	1.215	2.118	13.9	18.3	1 12	9 39.96	+ 9 4.4	1.537	2.418	13.0	18.1
1 22	9 34.87	+18 55.0	1.169	2.123	8.8	18.1	1 22	9 32.66	+ 9 44.6	1.488	2.430	8.6	17.9
2 1	9 24.35	+19 18.6	1.147	2.128	3.3	17.8	2 1	9 23.50	+10 38.6	1.465	2.441	3.9	17.6
2 11	9 12.94	+19 37.4	1.151	2.134	3.5	17.8	2 11	9 13.65	+11 40.0	1.469	2.453	2.4	17.5
2 21	9 2.36	+19 46.2	1.182	2.139	8.8	18.1	2 21	9 4.36	+12 41.8	1.502	2.464	6.8	17.9
3 2	8 54.10	+19 42.1	1.236	2.146	13.8	18.4	3 2	8 56.81	+13 37.8	1.561	2.475	11.2	18.1
3 12	8 49.14	+19 25.2	1.310	2.152	18.1	18.7	3 12	8 51.80	+14 23.4	1.643	2.485	15.0	18.4
411229	2010 <i>PD</i> ₄₉		2 6.6	91°90	4.6/ 3.9	18	500289	2012 <i>PY</i> ₃₄		2 6.7	118°38	1.2/ 5.7	18
1 2	9 49.97	+26 49.0	1.789	2.608	14.5	21.2	1 2	9 44.05	+18 37.4	2.487	3.289	11.4	21.4
1 12	9 43.80	+27 28.0	1.728	2.623	11.0	21.0	1 12	9 38.63	+18 55.9	2.412	3.300	8.6	21.2
1 22	9 34.95	+28 6.0	1.692	2.637	7.4	20.8	1 22	9 31.41	+19 18.6	2.363	3.312	5.4	21.0
2 1	9 24.27	+28 35.6	1.682	2.651	4.8	20.7	2 1	9 22.96	+19 42.0	2.343	3.323	2.1	20.8
2 11	9 13.05	+28 50.7	1.701	2.665	5.6	20.7	2 11	9 14.09	+20 2.3	2.353	3.334	2.2	20.8
2 21	9 2.62	+28 48.0	1.747	2.679	8.8	20.9	2 21	9 5.64	+20 16.4	2.393	3.344	5.5	21.1
3 2	8 54.15	+28 27.6	1.820	2.692	12.2	21.2	3 2	8 58.39	+20 22.6	2.463	3.354	8.6	21.3
3 12	8 48.38	+27 52.3	1.914	2.706	15.2	21.4	3 12	8 52.93	+20 20.2	2.557	3.364	11.3	21.5
245564	2005 <i>UE</i> ₁₁₀		2 6.6	152°43	0.2/ 6.5	18	243110	2007 <i>RL</i> ₁₃₅		2 6.7	121°37	1.9/ 8.0	18
1 2	9 48.41	+14 13.9	1.762	2.564	15.4	22.1	1 2	9 45.40	+ 8 3.8	1.803	2.591	15.7	21.2
1 12	9 42.66	+14 39.9	1.686	2.573	11.7	21.9	1 12	9 40.24	+ 8 22.2	1.730	2.605	12.2	21.0
1 22	9 34.30	+15 16.9	1.633	2.581	7.4	21.7	1 22	9 32.71	+ 8 56.5	1.680	2.618	8.1	20.8
2 1	9 24.08	+16 0.2	1.607	2.588	2.7	21.4	2 1	9 23.50	+ 9 43.7	1.656	2.631	3.8	20.6
2 11	9 13.14	+16 43.8	1.611	2.594	2.2	21.4	2 11	9 13.67	+10 38.4	1.661	2.644	2.4	20.5
2 21	9 2.75	+17 22.0	1.643	2.600	6.9	21.7	2 21	9 4.36	+11 34.5	1.695	2.656	6.3	20.8
3 2	8 54.07	+17 50.8	1.703	2.605	11.2	21.9	3 2	8 56.62	+12 26.6	1.756	2.667	10.3	21.0
3 12	8 47.93	+18 8.3	1.786	2.610	14.8	22.2	3 12	8 51.21	+13 10.6	1.841	2.678	13.9	21.3
247552	2002 <i>RH</i> ₂₂₄		2 6.7	229°86	2.1/ 4.9	17	32231	2000 <i>OT</i> ₂₇		2 6.7	191°21	1.6/ 5.4	18
1 2	9 44.43	+17 46.8	2.106	2.913	13.0	21.3	1 2	9 44.92	+20 57.1	2.728	3.528	10.6	19.1
1 12	9 39.57	+18 53.1	2.009	2.901	9.9	21.1	1 12	9 39.22	+21 7.9	2.640	3.526	8.0	18.9
1 22	9 32.40	+20 9.5	1.938	2.888	6.2	20.8	1 22	9 31.77	+21 20.9	2.578	3.525	5.0	18.7
2 1	9 23.44	+21 29.9	1.895	2.874	2.7	20.6	2 1	9 23.11	+21 32.6	2.545	3.523	2.2	18.5
2 11	9 13.60	+22 46.9	1.883	2.860	3.4	20.6	2 11	9 13.97	+21 39.9	2.543	3.521	2.5	18.5
2 21	9 3.97	+23 54.0	1.900	2.845	7.2	20.8	2 21	9 5.18	+21 40.3	2.573	3.519	5.4	18.7
3 2	8 55.60	+24 46.4	1.945	2.829	11.0	21.0	3 2	8 57.49	+21 32.7	2.631	3.517	8.4	18.9
3 12	8 49.38	+25 22.2	2.014	2.812	14.3	21.2	3 12	8 51.50	+21 16.9	2.715	3.514	11.0	19.1
496478	2014 <i>SP</i> ₂₁₇		2 6.7	108°04	1.0/ 7.5	18	327958	2007 <i>EH</i> ₁₃₉		2 6.7	100°48	3.2/ 4.4	18
1 2	9 42.21	+ 9 18.1	1.998	2.790	14.2	21.5	1 2	9 44.74	+22 18.4	1.901	2.721	13.7	21.2
1 12	9 37.65	+ 9 59.2	1.924	2.803	10.9	21.3	1 12	9 39.85	+23 3.6	1.827	2.724	10.3	20.9
1 22	9 30.98	+10 54.9	1.873	2.815	7.1	21.1	1 22	9 32.53	+23 52.9	1.777	2.727	6.7	20.7
2 1	9 22.84	+12 1.2	1.849	2.827	3.0	20.9	2 1	9 23.46	+24 40.0	1.754	2.730	3.5	20.5
2 11	9 14.13	+13 12.3	1.855	2.839	1.8	20.8	2 11	9 13.72	+25 18.2	1.760	2.733	4.3	20.6
2 21	9 5.84	+14 21.9	1.891	2.851	5.8	21.1	2 21	9 4.48	+25 43.0	1.794	2.735	7.8	20.8
3 2	8 58.92	+15 24.6	1.955	2.863	9.6	21.4	3 2	8 56.83	+25 52.2	1.854	2.738	11.4	21.0
3 12	8 54.04	+16 16.7	2.043	2.874	12.9	21.6	3 12	8 51.55	+25 46.0	1.937	2.741	14.6	21.2
50416	2000 <i>DZ</i> ₂		2 6.7	186°66	4.2/ 2.9	18	206261	2002 <i>XB</i> ₉₀		2 6.7	53°68	5.6/ 1.5	18
1 2	9 44.03	+27 11.4	2.416	3.230	11.3	19.1	1 2	9 42.42	+27 23.4	1.946	2.774	13.1	19.4
1 12	9 38.92	+28 6.0	2.339	3.230	8.7	18.9	1 12	9 38.09	+29 9.8	1.897	2.794	10.0	19.3
1 22	9 31.75	+29 0.6	2.287	3.230	6.0	18.7	1 22	9 31.39	+30 56.5	1.872	2.814	7.1	19.1
2 1	9 23.12	+29 49.3	2.264	3.229	4.2	18.6	2 1	9 23.02	+32 33.9	1.876	2.834	5.6	19.1
2 11	9 13.91	+30 26.7	2.271	3.228	5.1	18.6	2 11	9 14.07	+33 53.7	1.908	2.855	6.8	19.2
2 21	9 5.08	+30 49.0	2.306	3.227	7.6	18.8	2 21	9 5.66	+34 50.7	1.968	2.875	9.5	19.4
3 2	8 57.53	+30 55.0	2.368	3.225	10.3	19.0	3 2	8 58.84	+35 23.5	2.052	2.896	12.2	19.6
3 12	8 51.95	+30 45.5	2.454	3.223	12.8	19.1	3 12	8 54.36	+35 33.8	2.158	2.917	14.7	19.8
363183	2001 <i>TT</i> ₁₇₆		2 6.7	160°45	1.1/ 7.6	17	193179	2000 <i>PP</i> ₁₄		2 6.7	124°14	0.9/ 7.2	18
1 2	9 44.04	+10 1.7	2.461	3.239	12.2	22.5	1 2	9 47.33	+11 18.7	1.792	2.587	15.4	

EPHEMERIDES

2 6.7

2 6.7

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
455964	2005 <i>VV</i> ₉₈		2 6.7 149°87	1°5/ 5.5 18			64201	2001 <i>TG</i> ₈₀		2 6.7 62°98	3°3/ 4.5 18		
1 2	9 47.56	+19 43.8	2.555	3.351	11.3	21.7	1 2	9 44.92	+19 7.4	1.370	2.205	17.2	18.2
1 12	9 41.24	+20 5.6	2.478	3.363	8.5	21.5	1 12	9 40.72	+20 19.3	1.310	2.215	13.0	18.0
1 22	9 33.05	+20 30.8	2.427	3.374	5.4	21.3	1 22	9 33.42	+21 41.7	1.271	2.225	8.2	17.7
2 1	9 23.58	+20 55.5	2.405	3.384	2.2	21.1	2 1	9 23.87	+23 5.3	1.257	2.236	3.9	17.5
2 11	9 13.66	+21 15.7	2.414	3.393	2.5	21.1	2 11	9 13.49	+24 19.2	1.270	2.246	4.9	17.6
2 21	9 4.18	+21 28.5	2.455	3.402	5.7	21.4	2 21	9 3.84	+25 15.2	1.310	2.257	9.4	17.9
3 2	8 55.95	+21 32.5	2.525	3.410	8.7	21.6	3 2	8 56.32	+25 49.6	1.373	2.268	13.9	18.2
3 12	8 49.57	+21 27.2	2.621	3.417	11.4	21.8	3 12	8 51.84	+26 2.2	1.457	2.279	17.6	18.4
367930	2012 <i>CL</i> ₁₅		2 6.7 275°17	0°5/ 6.9 18			201069	2002 <i>EQ</i> ₁₁₄		2 6.7 48°08	1°8/ 5.7 18		
1 2	9 44.80	+13 25.3	1.759	2.566	15.2	21.1	1 2	9 45.44	+17 0.5	1.272	2.106	18.3	19.8
1 12	9 40.13	+13 30.2	1.668	2.556	11.7	20.9	1 12	9 41.12	+17 39.6	1.217	2.121	13.8	19.5
1 22	9 32.86	+13 45.9	1.599	2.546	7.6	20.6	1 22	9 33.63	+18 30.3	1.182	2.137	8.6	19.3
2 1	9 23.65	+14 9.4	1.556	2.536	2.9	20.3	2 1	9 23.91	+19 24.9	1.172	2.154	3.3	19.0
2 11	9 13.55	+14 36.0	1.541	2.526	2.1	20.2	2 11	9 13.49	+20 14.4	1.189	2.170	3.6	19.1
2 21	9 3.79	+15 0.9	1.555	2.515	6.8	20.5	2 21	9 3.96	+20 51.8	1.231	2.188	8.7	19.4
3 2	8 55.59	+15 20.0	1.595	2.505	11.3	20.7	3 2	8 56.70	+21 13.3	1.297	2.205	13.5	19.8
3 12	8 49.84	+15 30.7	1.659	2.495	15.2	20.9	3 12	8 52.57	+21 18.3	1.383	2.223	17.4	20.1
496253	2012 <i>KY</i> ₄		2 6.7 197°73	2°8/ 8.8 16			204221	2004 <i>CO</i> ₈₅		2 6.7 339°32	0°6/ 6.2 17		
1 2	9 41.70	+5 51.0	2.074	2.852	14.2	22.0	1 2	9 39.97	+15 16.1	1.921	2.736	13.8	20.3
1 12	9 37.30	+5 56.3	1.985	2.851	11.3	21.8	1 12	9 36.24	+15 45.8	1.835	2.730	10.5	20.1
1 22	9 30.82	+6 16.9	1.919	2.850	7.8	21.5	1 22	9 30.28	+16 25.6	1.772	2.723	6.6	19.8
2 1	9 22.83	+6 51.2	1.879	2.848	4.3	21.3	2 1	9 22.68	+17 11.1	1.736	2.718	2.4	19.5
2 11	9 14.20	+7 35.8	1.867	2.847	2.9	21.2	2 11	9 14.37	+17 57.0	1.729	2.712	2.2	19.5
2 21	9 5.88	+8 25.8	1.885	2.846	5.8	21.4	2 21	9 6.41	+18 37.7	1.750	2.707	6.5	19.8
3 2	8 58.79	+9 16.2	1.931	2.844	9.4	21.6	3 2	8 59.79	+19 9.3	1.797	2.703	10.5	20.0
3 12	8 53.67	+10 2.5	2.001	2.842	12.8	21.8	3 12	8 55.32	+19 29.3	1.868	2.699	13.9	20.2
84874	2003 <i>BO</i> ₆₄		2 6.7 148°81	3°3/ 3.9 18			414908	2010 <i>XH</i> ₇₆		2 6.7 60°54	1°8/ 7.9 18		
1 2	9 45.63	+26 31.1	2.591	3.399	10.8	19.9	1 2	9 43.31	+9 3.7	1.644	2.445	16.4	21.3
1 12	9 39.88	+26 57.3	2.514	3.403	8.3	19.7	1 12	9 38.84	+9 15.9	1.578	2.460	12.7	21.1
1 22	9 32.23	+27 22.5	2.463	3.407	5.5	19.6	1 22	9 31.90	+9 43.9	1.534	2.476	8.4	20.9
2 1	9 23.29	+27 42.3	2.441	3.411	3.5	19.4	2 1	9 23.24	+10 24.5	1.515	2.491	3.8	20.6
2 11	9 13.90	+27 52.5	2.450	3.414	4.1	19.5	2 11	9 13.99	+11 12.3	1.524	2.507	2.4	20.6
2 21	9 4.95	+27 50.9	2.488	3.418	6.6	19.6	2 21	9 5.34	+12 1.2	1.561	2.523	6.5	20.9
3 2	8 57.25	+27 36.8	2.554	3.421	9.3	19.8	3 2	8 58.37	+12 45.7	1.624	2.539	10.7	21.2
3 12	8 51.42	+27 11.1	2.644	3.424	11.7	20.0	3 12	8 53.82	+13 21.9	1.711	2.556	14.4	21.4
360179	2013 <i>CN</i> ₁₃₁		2 6.7 7°95	4°4/ 9.3 18			481135	2005 <i>UO</i> ₄₃		2 6.7 114°35	17°5/ 19.2 18		
1 2	9 42.57	+4 0.6	1.458	2.251	18.5	20.8	1 2	9 46.07	-21 26.7	1.334	1.991	25.9	21.7
1 12	9 38.74	+3 52.9	1.379	2.251	14.8	20.6	1 12	9 41.86	-23 18.8	1.270	2.001	23.8	21.5
1 22	9 32.11	+4 7.2	1.320	2.252	10.6	20.3	1 22	9 34.36	-24 31.6	1.218	2.010	21.6	21.4
2 1	9 23.39	+4 43.0	1.285	2.252	6.3	20.1	2 1	9 24.31	-24 54.7	1.182	2.018	19.4	21.3
2 11	9 13.77	+5 36.1	1.275	2.253	4.5	20.0	2 11	9 13.11	-24 22.9	1.163	2.027	17.9	21.2
2 21	9 4.60	+6 39.6	1.292	2.254	7.7	20.2	2 21	9 2.43	-22 58.3	1.164	2.035	17.5	21.2
3 2	8 57.20	+7 45.6	1.334	2.255	12.1	20.4	3 2	8 53.87	-20 51.0	1.184	2.043	18.3	21.3
3 12	8 52.52	+8 46.6	1.398	2.256	16.2	20.7	3 12	8 48.56	-18 17.2	1.224	2.050	20.1	21.4
49778	1999 <i>XT</i>		2 6.7 120°42	4°4/ 3.9 18			154049	2002 <i>CQ</i> ₁₁₉		2 6.7 279°53	0°9/ 7.4 18		
1 2	9 51.13	+23 8.8	1.602	2.422	15.8	19.4	1 2	9 40.89	+9 56.5	1.914	2.713	14.5	20.2
1 12	9 44.99	+24 22.0	1.544	2.440	12.0	19.2	1 12	9 36.90	+10 32.8	1.828	2.711	11.2	20.0
1 22	9 35.89	+25 39.4	1.510	2.458	7.8	19.0	1 22	9 30.69	+11 24.3	1.765	2.709	7.3	19.7
2 1	9 24.71	+26 51.5	1.503	2.476	4.6	18.9	2 1	9 22.84	+12 27.2	1.728	2.707	3.0	19.5
2 11	9 12.83	+27 48.9	1.524	2.492	5.7	19.0	2 11	9 14.28	+13 35.9	1.721	2.705	1.9	19.4
2 21	9 1.77	+28 26.1	1.574	2.508	9.4	19.2	2 21	9 6.03	+14 43.8	1.742	2.703	6.2	19.6
3 2	8 52.82	+28 41.4	1.648	2.522	13.1	19.5	3 2	8 59.13	+15 45.1	1.791	2.701	10.2	19.9
3 12	8 46.83	+28 36.8	1.744	2.536	16.4	19.7	3 12	8 54.35	+16 35.6	1.863	2.699	13.8	20.1
492588	2014 <i>OM</i> ₁₉₂		2 6.7 223°80	0°9/ 6.1 17			159246	2005 <i>YT</i> ₅₂		2 6.7 85°18	1°4/ 5.7 18		
1 2	9 45.55	+15 20.1	1.951	2.755	14.0	22.4	1 2	9 42.80	+16 36.8	1.917	2.730	13.9	20.6
1 12	9 40.52	+15 58.4	1.857	2.746	10.7	22.1	1 12	9 38.29	+17 21.2	1.844	2.738	10.5	20.4
1 22	9 33.04	+16 47.4	1.787	2.736	6.8	21.9	1 22	9 31.51	+18 14.7	1.795	2.746	6.5	20.2
2 1	9 23.71	+17 42.3	1.745	2.725	2.5	21.6	2 1	9 23.12	+19 11.7	1.773	2.754	2.5	19.9
2 11	9 13.51	+18 36.9	1.732	2.714	2.4	21.5	2 11	9 14.11	+20 6.0	1.781	2.762	2.7	19.9
2 21	9 3.60	+19 25.3	1.748	2.702	6.8	21.8	2 21	9 5.57	+20 52.0	1.817	2.770	6.8	20.2
3 2	8 55.09	+20 3.1	1.792	2.690	11.0	22.0	3 2	8 58.50	+21 26.0	1.880	2.777	10.6	20.5
3 12	8 48.87	+20 28.0	1.860	2.677	14.6	22.2	3 12	8 53.63	+21 46.5	1.966	2.785	13.8	20.7
392308	2010 <i>CJ</i> ₂₁₆		2 6.7 123°88	0°4/ 6.2 18			307888	2004 <i>BU</i> ₁₅₁		2 6.7 304°01	0°7/ 6.2 18		
1 2	9 39.42	+12 20.5	2.502	3.296	11.6	20.9	1 2	9 43.17	+14 53.5	1.654	2.471	15.5	20.5
1 12	9 35.27	+13 32.7	2.418	3.302	8.8	20.7	1 12	9 39.02	+15 26.9	1.571	2.467	11.9	20.3
1 22	9 29.40	+14 56.5	2.360	3.307	5.5	20.5	1 22	9 32.23	+16 12.4	1.511	2.462	7.5	20.0
2 1	9 22.29	+16 27.1	2.332	3.313	2.0	20.3	2 1	9 23.46	+17 5.2	1.477	2.458	2.7	19.7
2 11	9 14.65	+17 58.4	2.335	3.318	1.8	20.3	2 11	9 13.82	+17 58.3	1.471	2.454	2.5	19.7
2 21	9 7.26	+19 24.5	2.370	3.323	5.3	20.5	2 21	9 4.60	+18 45.1	1.492	2.450	7.4	19.9
3 2	9 0.89	+20 40.7	2.434	3.329	8.6	20.7	3 2	8 57.02	+19 20.8	1.539	2.446	11.8	20.2
3 12	8 56.14	+21 43.9	2.523	3.334	11.4	20.9	3 12	8 51.99	+19 42.9	1.608	2.442	15.7	20.4
84988	2003 <i>YY</i> ₈₈		2 6.7 344°32	5°4/ 1.7 18			191121	2002 <i>EF</i> ₁₃₁		2 6.7 252°36	1°2/ 7.6 18		
1 2	9 39.94	+25 58.8	1.876	2.709	13.3	18.6	1 2	9 41.33	+9 45.1	2.0			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
73427	2002 <i>LH</i> ₄₂		2 6.7 197°44	0°8/ 7.3 18			105107	2000 <i>LY</i> ₁₄		2 6.7 151°49	7°4/28.1 18		
1 2	9 43.59	+10 10.5	1.919	2.714	14.6	20.0	1 2	9 49.24	+46 5.1	3.259	4.032	9.6	20.3
1 12	9 38.97	+10 47.4	1.831	2.712	11.3	19.8	1 12	9 42.74	+47 22.6	3.211	4.042	8.4	20.2
1 22	9 32.02	+11 39.4	1.766	2.709	7.3	19.5	1 22	9 34.14	+48 29.5	3.189	4.051	7.6	20.2
2 1	9 23.35	+12 42.7	1.728	2.706	3.0	19.3	2 1	9 24.08	+49 19.9	3.194	4.060	7.5	20.2
2 11	9 13.91	+13 51.4	1.719	2.703	1.9	19.2	2 11	9 13.47	+49 49.5	3.226	4.068	8.1	20.3
2 21	9 4.78	+14 58.8	1.739	2.699	6.3	19.4	2 21	9 3.31	+49 56.8	3.284	4.076	9.3	20.4
3 2	8 57.04	+15 59.2	1.788	2.695	10.4	19.7	3 2	8 54.53	+49 42.9	3.365	4.083	10.6	20.5
3 12	8 51.50	+16 48.7	1.860	2.690	14.0	19.9	3 12	8 47.81	+49 10.8	3.466	4.090	11.8	20.6
456816	2007 <i>TP</i> ₃₇₅		2 6.7 91°20	0°6/ 6.2 18			19612	Noordung		2 6.7 208°21	2°4/ 8.2 18		
1 2	9 46.76	+14 14.8	1.646	2.456	16.0	21.4	1 2	9 46.02	+ 8 20.4	1.873	2.658	15.3	18.3
1 12	9 41.43	+14 57.9	1.587	2.478	12.0	21.2	1 12	9 40.86	+ 8 15.1	1.782	2.654	12.0	18.1
1 22	9 33.52	+15 52.8	1.550	2.499	7.5	21.0	1 22	9 33.26	+ 8 23.8	1.713	2.649	8.2	17.9
2 1	9 23.85	+16 53.6	1.540	2.521	2.7	20.7	2 1	9 23.84	+ 8 44.7	1.671	2.644	4.1	17.6
2 11	9 13.61	+17 52.9	1.558	2.542	2.4	20.8	2 11	9 13.62	+ 9 14.5	1.657	2.639	2.7	17.5
2 21	9 4.07	+18 44.3	1.606	2.562	7.1	21.1	2 21	9 3.73	+ 9 48.4	1.673	2.633	6.4	17.7
3 2	8 56.35	+19 23.5	1.679	2.582	11.3	21.4	3 2	8 55.29	+10 21.9	1.716	2.627	10.5	17.9
3 12	8 51.21	+19 48.7	1.776	2.602	14.8	21.6	3 12	8 49.17	+10 50.9	1.783	2.620	14.2	18.2
368608	2004 <i>RQ</i> ₂₁₇		2 6.7 71°29	6°1/10.8 18			312841	2011 <i>UO</i> ₄₉		2 6.7 136°18	1°2/ 5.9 18		
1 2	9 43.03	- 1 10.0	1.951	2.699	16.0	20.2	1 2	9 47.73	+16 27.2	1.901	2.706	14.3	22.1
1 12	9 38.34	- 1 50.1	1.873	2.707	13.3	20.0	1 12	9 41.99	+17 5.4	1.830	2.719	10.8	21.9
1 22	9 31.49	- 2 11.4	1.815	2.717	10.2	19.8	1 22	9 33.84	+17 52.2	1.783	2.732	6.8	21.6
2 1	9 23.11	- 2 12.6	1.782	2.726	7.4	19.7	2 1	9 24.00	+18 42.3	1.763	2.744	2.5	21.4
2 11	9 14.12	- 1 54.8	1.776	2.735	6.1	19.6	2 11	9 13.55	+19 29.4	1.773	2.755	2.6	21.4
2 21	9 5.54	- 1 21.7	1.798	2.744	7.4	19.7	2 21	9 3.64	+20 8.3	1.813	2.765	6.8	21.7
3 2	8 58.32	- 0 38.2	1.847	2.753	10.2	19.9	3 2	8 55.35	+20 35.6	1.880	2.775	10.7	22.0
3 12	8 53.19	+ 0 9.4	1.919	2.763	13.1	20.1	3 12	8 49.42	+20 50.4	1.971	2.785	14.0	22.2
135468	2001 <i>VJ</i> ₉₉		2 6.7 85°13	0°7/ 7.4 18			20718	1999 <i>XZ</i> ₉₇		2 6.7 273°71	3°9/ 2.6 18		
1 2	9 40.76	+10 1.9	2.478	3.263	12.0	20.2	1 2	9 40.70	+26 57.7	2.664	3.480	10.3	17.8
1 12	9 36.12	+10 44.8	2.412	3.287	9.1	20.0	1 12	9 36.37	+27 58.7	2.577	3.469	7.9	17.6
1 22	9 29.83	+11 38.7	2.371	3.312	5.9	19.8	1 22	9 30.18	+29 0.8	2.516	3.458	5.5	17.4
2 1	9 22.44	+12 39.9	2.358	3.336	2.4	19.6	2 1	9 22.65	+29 58.4	2.483	3.447	4.0	17.3
2 11	9 14.67	+13 43.7	2.376	3.360	1.5	19.6	2 11	9 14.53	+30 46.2	2.481	3.436	4.8	17.4
2 21	9 7.30	+14 45.4	2.425	3.384	4.8	19.9	2 21	9 6.63	+31 20.3	2.507	3.425	7.2	17.5
3 2	9 1.02	+15 41.0	2.503	3.407	8.0	20.1	3 2	8 59.79	+31 38.9	2.560	3.414	9.8	17.6
3 12	8 56.38	+16 27.7	2.607	3.430	10.7	20.3	3 12	8 54.67	+31 42.1	2.637	3.403	12.1	17.8
499465	2010 <i>FR</i> ₉₃		2 6.7 324°76	1°8/ 7.7 17			219327	2000 <i>HY</i> ₇₈		2 6.7 263°17	3°3/ 3.9 17		
1 2	9 40.18	+ 9 9.5	1.245	2.071	19.1	21.4	1 2	9 43.48	+20 14.0	1.979	2.797	13.3	20.3
1 12	9 37.55	+ 9 27.7	1.161	2.058	15.0	21.1	1 12	9 39.16	+21 33.4	1.881	2.777	10.1	20.0
1 22	9 31.74	+10 8.2	1.097	2.045	10.0	20.8	1 22	9 32.34	+23 2.8	1.807	2.758	6.5	19.8
2 1	9 23.40	+11 8.1	1.055	2.033	4.5	20.5	2 1	9 23.57	+24 35.0	1.761	2.737	3.5	19.6
2 11	9 13.82	+12 20.2	1.038	2.022	2.7	20.3	2 11	9 13.78	+26 1.1	1.745	2.717	4.6	19.6
2 21	9 4.60	+13 34.9	1.046	2.012	8.4	20.6	2 21	9 4.12	+27 13.8	1.758	2.696	8.3	19.8
3 2	8 57.35	+14 42.9	1.077	2.002	13.9	20.9	3 2	8 55.79	+28 7.9	1.798	2.674	12.1	19.9
3 12	8 53.23	+15 37.3	1.129	1.993	18.8	21.1	3 12	8 49.75	+28 41.9	1.860	2.652	15.5	20.1
297113	2010 <i>PP</i> ₇₆		2 6.7 178°95	0°4/ 6.4 18			144351	2004 <i>DY</i> ₃₆		2 6.7 356°17	3°7/ 4.8 18		
1 2	9 46.37	+15 2.2	2.098	2.895	13.4	22.1	1 2	9 44.80	+22 35.0	1.362	2.202	17.0	19.8
1 12	9 40.84	+15 26.4	2.012	2.897	10.2	21.9	1 12	9 40.81	+23 4.4	1.292	2.199	12.9	19.5
1 22	9 33.08	+15 59.3	1.951	2.898	6.5	21.7	1 22	9 33.60	+23 38.6	1.242	2.196	8.4	19.3
2 1	9 23.71	+16 37.0	1.919	2.899	2.3	21.4	2 1	9 24.02	+24 9.8	1.217	2.194	4.3	19.0
2 11	9 13.67	+17 14.5	1.916	2.899	2.0	21.4	2 11	9 13.52	+24 30.1	1.217	2.193	5.1	19.1
2 21	9 4.03	+17 47.2	1.943	2.898	6.2	21.6	2 21	9 3.70	+24 34.3	1.244	2.193	9.5	19.3
3 2	8 55.76	+18 11.8	1.998	2.897	10.0	21.9	3 2	8 56.06	+24 20.5	1.293	2.194	14.1	19.6
3 12	8 49.63	+18 26.5	2.078	2.895	13.2	22.1	3 12	8 51.55	+23 50.3	1.363	2.196	18.0	19.8
153886	2001 <i>XR</i> ₁₇₁		2 6.7 326°18	1°0/ 7.3 18			264429	2000 <i>SE</i> ₁₅		2 6.7 72°84	4°0/ 9.7 18		
1 2	9 43.11	+11 38.3	1.843	2.645	14.8	20.1	1 2	9 42.15	+ 2 38.1	1.841	2.612	16.0	20.3
1 12	9 38.64	+11 47.7	1.759	2.644	11.4	19.8	1 12	9 37.75	+ 2 39.6	1.770	2.627	12.8	20.1
1 22	9 31.82	+12 9.3	1.698	2.643	7.4	19.6	1 22	9 31.15	+ 3 0.4	1.720	2.643	9.2	19.9
2 1	9 23.28	+12 40.2	1.663	2.641	3.1	19.3	2 1	9 23.02	+ 3 39.2	1.696	2.659	5.6	19.7
2 11	9 14.01	+13 15.6	1.656	2.640	2.0	19.2	2 11	9 14.33	+ 4 31.9	1.700	2.675	4.1	19.7
2 21	9 5.15	+13 50.7	1.678	2.639	6.3	19.5	2 21	9 6.14	+ 5 33.0	1.732	2.691	6.4	19.8
3 2	8 57.74	+14 21.2	1.727	2.638	10.5	19.8	3 2	8 59.39	+ 6 36.0	1.791	2.707	9.9	20.1
3 12	8 52.60	+14 43.8	1.800	2.638	14.1	20.0	3 12	8 54.79	+ 7 35.3	1.875	2.723	13.2	20.3
130824	2000 <i>UQ</i> ₂₅		2 6.7 115°94	1°0/ 5.9 18			168468	1999 <i>KK</i> ₂		2 6.7 258°65	1°3/ 7.5 18		
1 2	9 46.85	+15 10.6	1.801	2.607	14.9	20.1	1 2	9 44.79	+10 19.8	1.752	2.550	15.6	21.2
1 12	9 41.39	+15 59.0	1.735	2.625	11.3	19.9	1 12	9 40.28	+10 35.3	1.651	2.533	12.2	20.9
1 22	9 33.47	+16 58.0	1.693	2.643	7.0	19.7	1 22	9 33.12	+11 5.8	1.573	2.516	8.1	20.7
2 1	9 23.86	+18 1.6	1.679	2.659	2.5	19.4	2 1	9 23.88	+11 48.9	1.521	2.499	3.5	20.3
2 11	9 13.64	+19 2.8	1.693	2.675	2.6	19.5	2 11	9 13.59	+12 39.2	1.496	2.480	2.2	20.2
2 21	9 4.02	+19 55.4	1.737	2.691	6.9	19.8	2 21	9 3.49	+13 30.8	1.501	2.462	6.9	20.5
3 2	8 56.06	+20 35.4	1.808	2.706	10.9	20.0	3 2	8 54.86	+14 17.7	1.532	2.443	11.6	20.7
3 12	8 50.54	+21 1.2	1.903	2.720	14.3	20.3	3 12	8 48.68	+14 55.7	1.586	2.424	15.7	20.9
3238	Timresovia		2 6.7 55°95	6°5/ 3.2 18			19909	4326 <i>T</i> ₋₃		2 6.7 95°92	3°3/ 4.5 18		
1 2	9 50.77	+30 42.4	1.										

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
284087	2005 LU ₁₇		2 6.7 209°70	0°9/ 5.9 17			35252	1995 YJ ₁₄		2 6.7 94°25	3°0/ 3.8 18		
1 2	9 41.32	+16 46.3	2.687	3.486	10.7	22.1	1 2	9 41.97	+22 57.3	2.498	3.311	11.0	19.7
1 12	9 36.65	+17 17.2	2.595	3.481	8.1	21.9	1 12	9 37.21	+23 57.3	2.434	3.327	8.3	19.5
1 22	9 30.28	+17 54.3	2.528	3.477	5.1	21.7	1 22	9 30.63	+24 59.8	2.395	3.343	5.4	19.4
2 1	9 22.69	+18 34.1	2.491	3.471	1.9	21.5	2 1	9 22.82	+25 59.4	2.386	3.359	3.1	19.2
2 11	9 14.58	+19 12.6	2.484	3.466	2.0	21.5	2 11	9 14.57	+26 50.8	2.407	3.375	3.9	19.3
2 21	9 6.72	+19 46.2	2.508	3.460	5.2	21.7	2 21	9 6.72	+27 30.2	2.458	3.391	6.5	19.5
3 2	8 59.84	+20 12.1	2.561	3.454	8.3	21.9	3 2	9 0.05	+27 55.6	2.536	3.406	9.3	19.7
3 12	8 54.55	+20 28.9	2.639	3.448	11.0	22.1	3 12	8 55.15	+28 7.0	2.639	3.421	11.7	19.9
38714	2000 QS ₁₁₆		2 6.7 42°02	4°3/ 4.4 18			205924	2002 HZ ₇		2 6.7 283°79	4°7/10.4 18		
1 2	9 46.33	+22 11.7	1.224	2.068	18.3	18.0	1 2	9 41.18	- 1 20.5	1.716	2.475	17.4	19.4
1 12	9 42.02	+23 5.7	1.173	2.082	13.8	17.7	1 12	9 37.74	- 0 39.8	1.599	2.448	14.4	19.1
1 22	9 34.32	+24 5.6	1.143	2.098	8.9	17.5	1 22	9 31.68	+ 0 31.5	1.502	2.419	10.7	18.8
2 1	9 24.26	+25 1.3	1.137	2.114	4.7	17.3	2 1	9 23.45	+ 2 14.0	1.430	2.390	6.8	18.5
2 11	9 13.47	+25 43.1	1.156	2.131	5.7	17.4	2 11	9 13.97	+ 4 23.2	1.385	2.361	4.7	18.3
2 21	9 3.68	+26 4.9	1.201	2.148	10.2	17.7	2 21	9 4.42	+ 6 49.8	1.370	2.332	7.4	18.4
3 2	8 56.36	+26 5.1	1.268	2.166	14.6	18.0	3 2	8 56.14	+ 9 21.5	1.383	2.302	12.0	18.5
3 12	8 52.35	+25 46.0	1.355	2.184	18.3	18.3	3 12	8 50.23	+11 46.0	1.420	2.272	16.4	18.7
408342	2013 GB ₈₁		2 6.7 327°83	1°3/ 5.9 18			345529	2006 NS		2 6.7 111°06	2°2/ 8.6 18		
1 2	9 43.30	+16 31.1	1.358	2.191	17.4	21.4	1 2	9 44.53	+ 7 12.8	2.920	3.677	11.0	20.7
1 12	9 39.73	+16 56.9	1.278	2.181	13.3	21.1	1 12	9 38.68	+ 6 58.6	2.845	3.699	8.6	20.6
1 22	9 33.02	+17 35.0	1.218	2.172	8.5	20.8	1 22	9 31.35	+ 6 53.5	2.795	3.721	5.9	20.5
2 1	9 23.88	+18 19.6	1.182	2.163	3.2	20.5	2 1	9 23.06	+ 6 56.4	2.775	3.743	3.3	20.3
2 11	9 13.65	+19 2.9	1.173	2.155	3.2	20.4	2 11	9 14.45	+ 7 5.4	2.786	3.764	2.3	20.3
2 21	9 3.89	+19 37.5	1.189	2.148	8.6	20.7	2 21	9 6.20	+ 7 18.3	2.828	3.784	4.4	20.4
3 2	8 56.12	+19 58.7	1.229	2.141	13.7	21.0	3 2	8 58.96	+ 7 32.6	2.901	3.804	7.0	20.6
3 12	8 51.42	+20 4.5	1.289	2.135	18.1	21.2	3 12	8 53.19	+ 7 46.1	3.000	3.823	9.4	20.8
302865	2003 GN ₅₆		2 6.7 228°46	3°2/ 4.6 18			238369	2004 CR ₅₉		2 6.7 341°90	3°7/ 3.9 18		
1 2	9 48.32	+21 36.8	1.885	2.698	14.1	21.8	1 2	9 41.57	+23 22.6	1.863	2.691	13.6	19.9
1 12	9 42.85	+22 25.5	1.793	2.687	10.7	21.6	1 12	9 37.66	+24 12.8	1.784	2.685	10.3	19.7
1 22	9 34.67	+23 20.2	1.726	2.675	6.9	21.3	1 22	9 31.32	+25 7.2	1.728	2.679	6.8	19.4
2 1	9 24.44	+24 14.2	1.686	2.663	3.6	21.1	2 1	9 23.19	+25 58.9	1.699	2.673	4.0	19.2
2 11	9 13.24	+25 0.0	1.676	2.649	4.4	21.1	2 11	9 14.30	+26 41.1	1.698	2.668	4.9	19.3
2 21	9 2.36	+25 31.9	1.694	2.635	8.2	21.3	2 21	9 5.83	+27 8.6	1.724	2.663	8.3	19.5
3 2	8 53.08	+25 47.1	1.739	2.620	12.2	21.5	3 2	8 58.88	+27 19.0	1.776	2.659	11.9	19.7
3 12	8 46.34	+25 45.5	1.806	2.605	15.7	21.7	3 12	8 54.28	+27 12.4	1.849	2.655	15.1	19.9
31871	2000 EA ₁₀₅		2 6.7 259°44	5°5/ 2.3 18			235035	2003 FU ₁₉		2 6.7 345°87	2°1/ 7.9 18		
1 2	9 47.21	+28 24.4	2.048	2.865	12.9	18.7	1 2	9 38.71	+ 8 22.8	1.148	1.979	20.1	19.5
1 12	9 42.04	+29 34.8	1.954	2.845	10.1	18.5	1 12	9 36.58	+ 8 42.1	1.072	1.971	15.8	19.2
1 22	9 34.20	+30 46.9	1.884	2.824	7.2	18.3	1 22	9 31.21	+ 9 26.1	1.015	1.964	10.6	18.9
2 1	9 24.28	+31 52.3	1.842	2.802	5.5	18.1	2 1	9 23.28	+10 31.7	0.980	1.958	4.9	18.5
2 11	9 13.34	+32 43.0	1.829	2.780	6.6	18.1	2 11	9 14.19	+11 50.8	0.968	1.953	2.9	18.4
2 21	9 2.63	+33 13.3	1.844	2.758	9.6	18.3	2 21	9 5.56	+13 12.9	0.982	1.949	8.5	18.7
3 2	8 53.42	+33 21.1	1.884	2.735	12.9	18.4	3 2	8 59.03	+14 27.6	1.017	1.946	14.1	19.0
3 12	8 46.70	+33 8.0	1.946	2.711	15.9	18.6	3 12	8 55.73	+15 27.4	1.073	1.944	19.0	19.3
1379	Lomonosowa		2 6.7 304°84	5°4/10.9 18	R		221217	2005 UJ ₉₆		2 6.7 111°11	5°9/ 2.0 18		
1 2	9 39.22	- 1 38.6	1.672	2.436	17.6	14.9	1 2	9 48.45	+30 52.4	2.105	2.919	12.8	20.6
1 12	9 36.03	- 1 19.7	1.578	2.427	14.6	14.6	1 12	9 42.53	+32 5.3	2.050	2.937	9.9	20.4
1 22	9 30.40	- 0 33.4	1.503	2.417	11.0	14.4	1 22	9 34.18	+33 14.8	2.020	2.954	7.3	20.3
2 1	9 22.87	+ 0 40.5	1.452	2.408	7.3	14.2	2 1	9 24.17	+34 12.9	2.018	2.971	5.9	20.3
2 11	9 14.43	+ 2 17.8	1.428	2.400	5.4	14.0	2 11	9 13.62	+34 52.9	2.045	2.987	6.8	20.3
2 21	9 6.23	+ 4 10.5	1.431	2.391	7.4	14.1	2 21	9 3.71	+35 11.7	2.100	3.003	9.2	20.5
3 2	8 59.45	+ 6 8.4	1.462	2.383	11.3	14.3	3 2	8 55.49	+35 9.1	2.180	3.018	11.8	20.7
3 12	8 55.01	+ 8 1.4	1.516	2.375	15.1	14.5	3 12	8 49.69	+34 48.0	2.282	3.033	14.2	20.9
275545	1998 UN ₁		2 6.7 206°45	27°5/25.1 16			428475	2007 VC ₄₇		2 6.7 230°91	3°6/ 3.6 17		
1 2	9 53.50	-38 49.7	1.336	1.844	31.1	21.4	1 2	9 43.98	+26 2.6	2.480	3.292	11.1	21.3
1 12	9 48.92	-41 37.3	1.267	1.839	30.4	21.2	1 12	9 38.90	+26 45.5	2.395	3.286	8.5	21.1
1 22	9 39.88	-43 43.8	1.204	1.832	29.5	21.1	1 22	9 31.83	+27 29.0	2.336	3.280	5.7	20.9
2 1	9 26.80	-44 53.4	1.148	1.824	28.7	21.0	2 1	9 23.32	+28 7.9	2.305	3.273	3.8	20.7
2 11	9 11.24	-44 52.1	1.101	1.813	28.0	20.8	2 11	9 14.22	+28 37.1	2.304	3.267	4.5	20.8
2 21	8 55.57	-43 32.3	1.064	1.801	27.5	20.7	2 21	9 5.45	+28 53.1	2.332	3.260	7.1	20.9
3 2	8 42.42	-40 55.8	1.038	1.787	27.6	20.7	3 2	8 57.90	+28 54.7	2.388	3.253	10.0	21.1
3 12	8 33.75	-37 15.8	1.026	1.771	28.2	20.6	3 12	8 52.25	+28 42.3	2.467	3.246	12.5	21.3
108977	2001 PN ₄₇		2 6.7 283°24	0°3/ 6.4 18			190748	2001 QZ ₃₆		2 6.7 321°73	0°3/ 6.9 18		
1 2	9 39.36	+12 51.2	2.250	3.051	12.5	19.1	1 2	9 48.40	+14 39.3	1.398	2.216	17.8	20.1
1 12	9 35.52	+13 43.0	2.158	3.045	9.5	18.9	1 12	9 43.41	+14 33.4	1.320	2.215	13.7	19.8
1 22	9 29.76	+14 46.7	2.090	3.038	6.0	18.7	1 22	9 35.25	+14 38.5	1.264	2.213	8.8	19.5
2 1	9 22.56	+15 58.1	2.050	3.031	2.2	18.4	2 1	9 24.71	+14 50.9	1.232	2.212	3.4	19.2
2 11	9 14.71	+17 11.6	2.041	3.024	1.9	18.4	2 11	9 13.18	+15 5.1	1.227	2.211	2.4	19.1
2 21	9 7.10	+18 21.3	2.061	3.017	5.8	18.6	2 21	9 2.26	+15 16.3	1.248	2.210	8.0	19.5
3 2	9 0.58	+19 22.2	2.109	3.010	9.4	18.8	3 2	8 53.44	+15 20.7	1.295	2.209	13.0	19.7
3 12	8 55.87	+20 11.2	2.182	3.004	12.5	19.0	3 12	8 47.71	+15 16.5	1.363	2.208	17.3	20.0
200927	2002 AA ₁₃₄		2 6.7 65°34	0°8/ 6.2 17			184826	2005 TE ₁₉₀		2 6.7 228°34	3°4/ 4.5 18		
1 2	9 46.46	+13 25.1	1.322	2.145	18.4	20.7	1 2	9 48.80	+24 33.3	2.133	2.943	12.8	20.8
1 12	9 41.68	+14 21.1											

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
90848	1996 <i>EP</i> ₇		2 6.7 243°14	1°3/ 5.9 18			266379	2007 <i>EZ</i> ₁₁₁		2 6.7 358°49	5°6/11.1 18		
1 2	9 47.29	+16 47.9	1.726	2.537	15.2	21.4	1 2	9 38.43	- 1 24.2	1.657	2.424	17.6	20.0
1 12	9 42.25	+17 17.2	1.632	2.525	11.7	21.2	1 12	9 35.38	- 1 20.3	1.573	2.423	14.6	19.8
1 22	9 34.40	+17 56.5	1.562	2.512	7.4	20.9	1 22	9 29.95	- 0 50.6	1.508	2.422	11.0	19.6
2 1	9 24.41	+18 40.6	1.518	2.498	2.8	20.6	2 1	9 22.75	+ 0 4.8	1.467	2.421	7.5	19.4
2 11	9 13.37	+19 22.9	1.502	2.484	2.9	20.6	2 11	9 14.76	+ 1 22.3	1.451	2.421	5.6	19.3
2 21	9 2.65	+19 57.3	1.516	2.470	7.7	20.8	2 21	9 7.11	+ 2 54.9	1.463	2.421	7.4	19.4
3 2	8 53.56	+20 19.7	1.555	2.455	12.2	21.0	3 2	9 0.91	+ 4 33.4	1.501	2.422	11.0	19.6
3 12	8 47.12	+20 28.6	1.617	2.440	16.1	21.3	3 12	8 57.01	+ 6 8.9	1.562	2.424	14.6	19.8
500183	2012 <i>FH</i> ₅₃		2 6.7 243°31	1°7/ 5.6 17			8468	Rhondastroud		2 6.7 182°36	0°1/ 6.6 18		
1 2	9 46.29	+19 8.3	2.084	2.892	13.1	22.4	1 2	9 40.39	+13 56.9	2.991	3.779	10.0	20.0
1 12	9 40.99	+19 31.0	1.989	2.880	10.0	22.1	1 12	9 35.78	+14 24.8	2.900	3.780	7.6	19.8
1 22	9 33.34	+19 59.5	1.919	2.868	6.3	21.9	1 22	9 29.68	+14 59.8	2.835	3.780	4.8	19.7
2 1	9 23.95	+20 29.2	1.876	2.855	2.6	21.6	2 1	9 22.53	+15 38.9	2.799	3.779	1.8	19.4
2 11	9 13.76	+20 54.8	1.863	2.843	2.9	21.6	2 11	9 14.95	+16 18.8	2.795	3.779	1.4	19.4
2 21	9 3.88	+21 12.2	1.879	2.829	6.8	21.8	2 21	9 7.59	+16 56.2	2.822	3.777	4.4	19.6
3 2	8 55.37	+21 18.9	1.923	2.816	10.6	22.0	3 2	9 1.10	+17 28.4	2.878	3.776	7.3	19.8
3 12	8 49.07	+21 14.2	1.990	2.802	13.9	22.2	3 12	8 55.99	+17 53.5	2.960	3.774	9.8	20.0
292297	2006 <i>SC</i> ₁₄₃		2 6.7 231°89	3°6/10.2 17			132241	2002 <i>EU</i> ₈₄		2 6.7 22°11	1°9/ 5.7 18		
1 2	9 39.46	+ 1 10.4	2.737	3.480	12.0	21.1	1 2	9 43.00	+16 49.8	1.205	2.046	18.7	19.8
1 12	9 35.24	+ 1 11.6	2.632	3.471	9.7	20.9	1 12	9 39.63	+17 29.6	1.143	2.051	14.1	19.6
1 22	9 29.42	+ 1 27.1	2.551	3.462	7.2	20.8	1 22	9 32.97	+18 22.5	1.102	2.058	8.9	19.3
2 1	9 22.44	+ 1 56.4	2.497	3.452	4.7	20.6	2 1	9 23.91	+19 21.0	1.084	2.065	3.4	19.0
2 11	9 14.93	+ 2 37.6	2.472	3.442	3.6	20.5	2 11	9 13.95	+20 15.4	1.092	2.074	3.7	19.0
2 21	9 7.58	+ 3 27.2	2.478	3.431	5.1	20.6	2 21	9 4.76	+20 57.6	1.124	2.083	9.1	19.4
3 2	9 1.08	+ 4 21.2	2.512	3.421	7.8	20.7	3 2	8 57.84	+21 22.9	1.180	2.093	14.1	19.7
3 12	8 56.04	+ 5 15.4	2.573	3.410	10.4	20.9	3 12	8 54.13	+21 30.0	1.255	2.103	18.3	20.0
173214	1998 <i>SR</i> ₁₂₁		2 6.7 127°88	4°6/ 3.7 18			135203	2001 <i>RV</i> ₅₃		2 6.7 225°45	1°6/ 5.5 18		
1 2	9 50.71	+27 15.2	1.977	2.790	13.5	20.4	1 2	9 44.43	+17 28.7	2.009	2.819	13.5	20.5
1 12	9 44.28	+27 58.5	1.913	2.803	10.4	20.2	1 12	9 39.66	+18 11.7	1.920	2.812	10.2	20.3
1 22	9 35.31	+28 40.7	1.872	2.815	7.1	20.0	1 22	9 32.55	+19 3.4	1.854	2.805	6.4	20.1
2 1	9 24.61	+29 14.7	1.860	2.827	4.7	19.9	2 1	9 23.70	+19 58.5	1.817	2.797	2.6	19.8
2 11	9 13.35	+29 34.5	1.876	2.838	5.5	20.0	2 11	9 14.07	+20 50.8	1.809	2.789	2.9	19.8
2 21	9 2.78	+29 36.8	1.922	2.849	8.4	20.2	2 21	9 4.74	+21 34.8	1.830	2.781	6.9	20.0
3 2	8 53.99	+29 21.7	1.994	2.859	11.6	20.4	3 2	8 56.80	+22 6.6	1.878	2.772	10.8	20.3
3 12	8 47.74	+28 51.3	2.088	2.869	14.4	20.6	3 12	8 51.05	+22 24.7	1.950	2.763	14.1	20.5
22964	1999 <i>UV</i> ₂₈		2 6.7 345°85	0°1/ 6.8 18			369337	2009 <i>SW</i> ₂₉₂		2 6.7 194°58	1°3/ 5.7 18		
1 2	9 42.41	+12 56.0	1.433	2.255	17.2	18.1	1 2	9 45.26	+17 54.9	2.240	3.043	12.5	21.7
1 12	9 38.82	+13 20.6	1.354	2.251	13.2	17.8	1 12	9 39.97	+18 23.2	2.152	3.041	9.5	21.5
1 22	9 32.32	+14 0.6	1.297	2.248	8.5	17.5	1 22	9 32.58	+18 57.8	2.090	3.039	6.0	21.3
2 1	9 23.64	+14 51.5	1.265	2.245	3.2	17.2	2 1	9 23.67	+19 34.4	2.056	3.036	2.3	21.0
2 11	9 14.01	+15 46.0	1.258	2.243	2.3	17.1	2 11	9 14.12	+20 8.0	2.052	3.033	2.5	21.0
2 21	9 4.86	+16 36.6	1.279	2.241	7.7	17.4	2 21	9 4.91	+20 34.7	2.078	3.029	6.2	21.3
3 2	8 57.56	+17 17.5	1.324	2.239	12.7	17.7	3 2	8 56.99	+20 51.7	2.132	3.025	9.7	21.5
3 12	8 53.07	+17 44.9	1.390	2.238	16.9	18.0	3 12	8 51.06	+20 58.0	2.211	3.021	12.8	21.7
135452	2001 <i>VF</i> ₂₆		2 6.7 81°22	0°2/ 6.9 18 R			97976	2000 <i>QL</i> ₁₆₈		2 6.7 212°09	0°7/ 7.2 18		
1 2	9 41.98	+13 11.1	2.384	3.178	12.1	19.9	1 2	9 47.78	+12 46.8	1.792	2.590	15.3	20.1
1 12	9 37.16	+13 33.2	2.316	3.198	9.2	19.8	1 12	9 42.38	+12 50.5	1.702	2.585	11.8	19.8
1 22	9 30.59	+14 3.8	2.273	3.218	5.8	19.6	1 22	9 34.37	+13 5.3	1.635	2.580	7.7	19.6
2 1	9 22.83	+14 39.6	2.258	3.237	2.2	19.4	2 1	9 24.40	+13 28.2	1.595	2.574	3.1	19.3
2 11	9 14.69	+15 16.5	2.273	3.257	1.5	19.3	2 11	9 13.56	+13 54.4	1.584	2.568	2.0	19.2
2 21	9 6.97	+15 50.8	2.318	3.276	5.1	19.6	2 21	9 3.11	+14 19.4	1.602	2.562	6.7	19.5
3 2	9 0.43	+16 19.4	2.392	3.295	8.3	19.9	3 2	8 54.24	+14 39.2	1.647	2.554	11.1	19.7
3 12	8 55.63	+16 40.4	2.491	3.314	11.1	20.1	3 12	8 47.86	+14 51.2	1.715	2.547	14.9	19.9
167830	2005 <i>CA</i> ₂₈		2 6.7 319°89	8°2/11.1 18			60533	2000 <i>EC</i> ₅₅		2 6.7 117°47	1°3/ 7.8 18		
1 2	9 38.61	- 1 46.5	1.352	2.134	20.2	19.4	1 2	9 42.58	+ 8 36.9	1.877	2.669	15.0	19.1
1 12	9 36.28	- 2 31.8	1.254	2.110	17.1	19.1	1 12	9 38.20	+ 9 13.5	1.799	2.677	11.6	18.9
1 22	9 31.00	- 2 51.6	1.173	2.086	13.5	18.8	1 22	9 31.57	+10 6.4	1.743	2.685	7.6	18.7
2 1	9 23.27	- 2 41.1	1.114	2.063	10.0	18.6	2 1	9 23.31	+11 11.7	1.715	2.692	3.4	18.5
2 11	9 14.21	- 1 59.9	1.077	2.041	8.2	18.4	2 11	9 14.41	+12 23.4	1.715	2.699	2.0	18.4
2 21	9 5.24	- 0 52.3	1.064	2.019	10.0	18.4	2 21	9 5.90	+13 34.8	1.745	2.706	6.1	18.6
3 2	8 57.90	+ 0 33.1	1.075	1.999	14.0	18.6	3 2	8 58.82	+14 40.0	1.802	2.713	10.1	18.9
3 12	8 53.44	+ 2 4.8	1.105	1.980	18.4	18.7	3 12	8 53.90	+15 34.6	1.883	2.720	13.6	19.1
262766	2006 <i>XX</i> ₆₉		2 6.7 115°69	1°3/ 5.8 18			319846	2006 <i>WT</i> ₁₇		2 6.7 347°97	2°2/ 7.8 18		
1 2	9 44.22	+16 36.3	1.869	2.681	14.2	21.2	1 2	9 39.46	+11 0.2	1.218	2.051	19.0	20.2
1 12	9 39.49	+17 15.0	1.794	2.687	10.8	21.0	1 12	9 37.03	+10 41.2	1.139	2.039	14.9	19.9
1 22	9 32.38	+18 2.8	1.743	2.693	6.7	20.8	1 22	9 31.44	+10 38.3	1.079	2.029	10.0	19.5
2 1	9 23.58	+18 54.4	1.718	2.699	2.5	20.5	2 1	9 23.42	+10 49.9	1.042	2.020	4.6	19.2
2 11	9 14.11	+19 43.5	1.723	2.704	2.7	20.5	2 11	9 14.28	+11 11.4	1.029	2.013	2.9	19.1
2 21	9 5.12	+20 24.6	1.756	2.710	6.9	20.8	2 21	9 5.63	+11 36.9	1.040	2.007	8.2	19.4
3 2	8 57.64	+20 54.0	1.816	2.715	10.8	21.0	3 2	8 58.98	+12 0.4	1.074	2.003	13.6	19.6
3 12	8 52.47	+21 10.3	1.899	2.720	14.2	21.3	3 12	8 55.44	+12 16.9	1.128	2.000	18.2	19.9
180632	2004 <i>FG</i> ₁₆₀		2 6.7 159°55	2°8/ 9.3 18			398321	2011 <i>KV</i> ₃₆		2 6.7 107°88	4°7/ 2.4 18		
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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
206202	2002 <i>UU</i> ₃₄		2 6.7 106°23	0°9/ 7.5 18			215486	2002 <i>TH</i> ₄₃		2 6.7 115°90	2°3/ 8.3 18		
1 2	9 41.87	+10 50.3	2.430	3.216	12.1	21.0	1 2	9 44.60	+ 7 47.7	1.860	2.646	15.3	20.7
1 12	9 37.10	+11 10.3	2.355	3.231	9.3	20.8	1 12	9 39.71	+ 7 53.6	1.783	2.655	12.0	20.5
1 22	9 30.59	+11 40.3	2.304	3.245	6.0	20.6	1 22	9 32.52	+ 8 14.5	1.729	2.665	8.1	20.3
2 1	9 22.89	+12 17.5	2.281	3.259	2.5	20.4	2 1	9 23.70	+ 8 48.2	1.700	2.674	4.1	20.1
2 11	9 14.75	+12 58.1	2.289	3.273	1.6	20.4	2 11	9 14.25	+ 9 30.3	1.701	2.683	2.6	20.0
2 21	9 6.98	+13 38.1	2.327	3.286	4.9	20.6	2 21	9 5.26	+10 15.7	1.730	2.692	6.1	20.2
3 2	9 0.34	+14 14.0	2.394	3.300	8.2	20.9	3 2	8 57.75	+10 59.2	1.787	2.700	10.1	20.5
3 12	8 55.39	+14 43.3	2.486	3.313	11.0	21.1	3 12	8 52.47	+11 36.8	1.868	2.708	13.5	20.7
38752	2000 <i>QY</i> ₂₀₇		2 6.7 68°36	0°3/ 6.9 18			118275	1998 <i>QR</i> ₂₄		2 6.7 163°92	1°7/ 7.9 18		
1 2	9 46.03	+12 17.4	1.420	2.235	17.7	19.5	1 2	9 46.43	+ 8 38.4	1.709	2.500	16.2	20.3
1 12	9 41.30	+12 45.7	1.361	2.254	13.5	19.3	1 12	9 41.39	+ 9 0.5	1.628	2.505	12.7	20.1
1 22	9 33.71	+13 29.2	1.324	2.272	8.6	19.1	1 22	9 33.75	+ 9 39.5	1.569	2.509	8.4	19.9
2 1	9 24.12	+14 22.5	1.311	2.291	3.3	18.8	2 1	9 24.21	+10 32.0	1.537	2.513	3.8	19.6
2 11	9 13.88	+15 18.1	1.326	2.310	2.2	18.8	2 11	9 13.86	+11 32.3	1.532	2.516	2.3	19.5
2 21	9 4.42	+16 8.7	1.368	2.329	7.4	19.2	2 21	9 3.95	+12 33.6	1.557	2.518	6.7	19.8
3 2	8 56.97	+16 49.1	1.435	2.348	12.1	19.5	3 2	8 55.67	+13 29.9	1.609	2.520	11.1	20.0
3 12	8 52.35	+17 16.4	1.524	2.367	15.9	19.8	3 12	8 49.88	+14 16.5	1.684	2.521	14.9	20.3
18477	1995 <i>WA</i> ₁₁		2 6.7 179°41	3°5/ 2.9 18			519390	2011 <i>SN</i> ₁₇		2 6.7 264°93	3°1/ 9.4 16		
1 2	9 42.83	+27 18.9	3.042	3.848	9.4	20.2	1 2	9 40.89	+ 4 1.1	2.598	3.355	12.2	22.5
1 12	9 37.70	+28 10.0	2.963	3.850	7.2	20.0	1 12	9 36.51	+ 3 57.1	2.484	3.335	9.8	22.3
1 22	9 30.95	+29 0.7	2.910	3.850	5.0	19.9	1 22	9 30.37	+ 4 6.0	2.393	3.314	7.1	22.1
2 1	9 23.04	+29 46.6	2.887	3.851	3.5	19.8	2 1	9 22.91	+ 4 27.5	2.330	3.293	4.3	21.9
2 11	9 14.67	+30 23.3	2.895	3.851	4.2	19.8	2 11	9 14.80	+ 4 59.5	2.296	3.271	3.2	21.8
2 21	9 6.57	+30 48.0	2.933	3.850	6.3	19.9	2 21	9 6.78	+ 5 38.8	2.293	3.250	5.2	21.9
3 2	8 59.46	+30 59.3	2.999	3.849	8.6	20.1	3 2	8 59.65	+ 6 21.6	2.318	3.228	8.3	22.0
3 12	8 53.90	+30 57.6	3.089	3.848	10.7	20.2	3 12	8 54.07	+ 7 3.9	2.369	3.205	11.2	22.2
165433	2000 <i>YD</i> ₇₂		2 6.7 128°61	3°0/ 4.5 18			461989	2006 <i>WZ</i> ₃₅		2 6.7 80°82	0°2/ 6.9 18		
1 2	9 48.24	+20 56.8	1.952	2.763	13.8	20.1	1 2	9 44.62	+12 2.1	1.731	2.536	15.5	22.0
1 12	9 42.43	+22 0.6	1.887	2.780	10.4	20.0	1 12	9 39.81	+12 38.2	1.668	2.555	11.8	21.8
1 22	9 34.20	+23 9.6	1.847	2.796	6.6	19.8	1 22	9 32.59	+13 27.7	1.628	2.574	7.5	21.6
2 1	9 24.29	+24 16.9	1.835	2.812	3.4	19.6	2 1	9 23.71	+14 25.6	1.614	2.594	2.8	21.3
2 11	9 13.77	+25 14.9	1.854	2.826	4.2	19.7	2 11	9 14.28	+15 25.3	1.628	2.613	2.0	21.3
2 21	9 3.83	+25 58.6	1.901	2.840	7.6	19.9	2 21	9 5.44	+16 20.5	1.672	2.631	6.5	21.6
3 2	8 55.51	+26 25.5	1.976	2.854	11.1	20.1	3 2	8 58.24	+17 6.5	1.742	2.650	10.6	21.9
3 12	8 49.57	+26 35.7	2.073	2.866	14.1	20.4	3 12	8 53.42	+17 40.3	1.836	2.668	14.1	22.2
461775	2005 <i>UL</i> ₃₈₇		2 6.7 112°56	6°8/ 11.9 18			289564	2005 <i>EL</i> ₂₇₂		2 6.7 264°79	1°1/ 5.5 17		
1 2	9 43.45	- 4 44.8	2.099	2.821	15.8	21.7	1 2	9 38.16	+18 42.2	3.338	4.138	8.8	21.1
1 12	9 38.60	- 5 21.5	2.020	2.832	13.3	21.6	1 12	9 34.06	+19 10.6	3.239	4.127	6.6	20.9
1 22	9 31.71	- 5 37.9	1.961	2.843	10.6	21.4	1 22	9 28.61	+19 43.0	3.166	4.115	4.2	20.7
2 1	9 23.37	- 5 32.5	1.926	2.854	8.1	21.3	2 1	9 22.20	+20 16.5	3.123	4.103	1.7	20.6
2 11	9 14.45	- 5 6.1	1.918	2.865	6.8	21.2	2 11	9 15.37	+20 48.1	3.111	4.090	1.9	20.6
2 21	9 5.91	- 4 22.4	1.939	2.876	7.7	21.3	2 21	9 8.71	+21 15.0	3.130	4.078	4.5	20.7
3 2	8 58.64	- 3 26.7	1.986	2.886	10.0	21.4	3 2	9 2.78	+21 35.1	3.178	4.066	7.0	20.9
3 12	8 53.32	- 2 25.6	2.058	2.896	12.6	21.6	3 12	8 58.09	+21 47.4	3.251	4.054	9.3	21.0
393458	2001 <i>WE</i> ₁		2 6.7 147°35	4°8/ 2.9 18			224366	2005 <i>UN</i> ₁₅₁		2 6.7 233°45	0°1/ 6.8 17		
1 2	9 50.90	+26 44.9	2.086	2.895	13.1	21.8	1 2	9 44.22	+13 27.0	2.202	2.997	12.9	21.7
1 12	9 44.45	+28 2.1	2.021	2.910	10.0	21.6	1 12	9 39.31	+13 47.7	2.104	2.986	9.9	21.4
1 22	9 35.50	+29 19.9	1.982	2.923	6.9	21.4	1 22	9 32.28	+14 18.1	2.030	2.975	6.4	21.2
2 1	9 24.79	+30 30.0	1.972	2.935	4.9	21.3	2 1	9 23.64	+14 55.2	1.983	2.963	2.4	20.9
2 11	9 13.42	+31 25.1	1.991	2.946	5.9	21.4	2 11	9 14.28	+15 34.3	1.967	2.951	1.7	20.8
2 21	9 2.61	+32 0.5	2.040	2.957	8.7	21.6	2 21	9 5.14	+16 11.0	1.980	2.938	5.8	21.1
3 2	8 53.46	+32 15.1	2.115	2.966	11.7	21.8	3 2	8 57.20	+16 41.6	2.022	2.925	9.6	21.3
3 12	8 46.75	+32 10.9	2.213	2.974	14.3	22.0	3 12	8 51.23	+17 3.5	2.088	2.912	13.0	21.5
290563	2005 <i>UJ</i> ₁₁₁		2 6.7 130°46	2°6/ 8.6 18			288417	2004 <i>DT</i> ₅₇		2 6.7 43°19	1°7/ 5.9 18		
1 2	9 43.68	+ 6 56.8	2.050	2.828	14.3	21.1	1 2	9 46.78	+18 10.8	1.355	2.185	17.6	20.8
1 12	9 38.84	+ 6 55.4	1.968	2.835	11.3	20.9	1 12	9 42.02	+18 29.4	1.299	2.201	13.3	20.6
1 22	9 31.89	+ 7 8.1	1.909	2.841	7.7	20.7	1 22	9 34.23	+18 56.4	1.265	2.218	8.3	20.3
2 1	9 23.45	+ 7 33.2	1.877	2.848	4.1	20.5	2 1	9 24.35	+19 25.6	1.255	2.236	3.2	20.1
2 11	9 14.41	+ 8 7.2	1.873	2.854	2.8	20.4	2 11	9 13.84	+19 49.9	1.272	2.254	3.3	20.1
2 21	9 5.76	+ 8 45.8	1.899	2.859	5.8	20.6	2 21	9 4.23	+20 4.2	1.315	2.272	8.2	20.4
3 2	8 58.42	+ 9 24.6	1.953	2.865	9.4	20.9	3 2	8 56.81	+20 6.1	1.383	2.291	12.8	20.8
3 12	8 53.10	+ 9 59.5	2.031	2.870	12.7	21.1	3 12	8 52.39	+19 55.3	1.472	2.311	16.6	21.0
421242	2013 <i>SP</i> ₄₇		2 6.7 187°36	0°0/ 6.6 17			425534	2010 <i>OZ</i> ₁₁₁		2 6.7 340°22	6°2/ 12.0 18		
1 2	9 43.49	+13 40.5	2.116	2.915	13.2	21.8	1 2	9 37.07	- 4 4.0	1.924	2.669	16.3	20.6
1 12	9 38.73	+14 1.9	2.030	2.915	10.1	21.6	1 12	9 34.11	- 4 5.0	1.830	2.661	13.7	20.4
1 22	9 31.85	+14 33.1	1.968	2.914	6.5	21.4	1 22	9 29.07	- 3 42.0	1.756	2.654	10.7	20.2
2 1	9 23.45	+15 10.5	1.933	2.914	2.4	21.1	2 1	9 22.47	- 2 53.8	1.705	2.647	7.8	20.0
2 11	9 14.41	+15 49.4	1.929	2.913	1.8	21.1	2 11	9 15.15	- 1 42.9	1.680	2.640	6.2	19.9
2 21	9 5.71	+16 25.4	1.953	2.912	5.9	21.3	2 21	9 8.06	- 0 14.8	1.683	2.635	7.3	20.0
3 2	8 58.30	+16 54.7	2.006	2.910	9.6	21.6	3 2	9 2.18	+ 1 22.9	1.713	2.629	10.2	20.1
3 12	8 52.90	+17 15.0	2.083	2.909	12.9	21.8	3 12	8 58.27	+ 3 1.6	1.767	2.625	13.4	20.3
133365	2003 <i>SA</i> ₁₄₀		2 6.7 261°19	2°9/ 4.7 17			428465	2007 <i>UB</i> ₆₇		2 6.7 57°57	6°7/ 12.7 17		
1 2	9 46.84	+20 17.4	1.844	2.659	14.3	20.6	1 2	9 39.43					

EPHEMERIDES

2 6.7

2 6.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
289547	2005 <i>EG</i> ₂₂₇		2 6.7 258°24	0°3/ 6.5 16			466175	2012 <i>JP</i> ₄₁		2 6.8 141°84	4°2/ 3.1 18		
1 2	9 45.23	+14 26.8	1.826	2.633	14.7	21.8	1 2	9 45.95	+26 57.2	2.361	3.173	11.6	21.6
1 12	9 40.57	+14 50.6	1.729	2.618	11.3	21.6	1 12	9 40.48	+27 55.7	2.292	3.182	8.9	21.4
1 22	9 33.34	+15 25.7	1.654	2.603	7.3	21.3	1 22	9 32.91	+28 54.2	2.249	3.191	6.1	21.3
2 1	9 24.11	+16 8.1	1.606	2.587	2.7	21.0	2 1	9 23.89	+29 46.5	2.235	3.199	4.3	21.2
2 11	9 13.92	+16 52.1	1.587	2.571	2.2	20.9	2 11	9 14.31	+30 26.7	2.250	3.207	5.1	21.2
2 21	9 3.96	+17 31.9	1.597	2.555	7.0	21.2	2 21	9 5.19	+30 51.3	2.294	3.215	7.6	21.4
3 2	8 55.47	+18 2.9	1.633	2.538	11.4	21.4	3 2	8 57.42	+30 59.1	2.366	3.222	10.4	21.6
3 12	8 49.37	+18 22.6	1.693	2.521	15.2	21.6	3 12	8 51.69	+30 51.3	2.460	3.228	12.8	21.8
83802	2001 <i>TY</i> ₂₁₈		2 6.7 90°79	3°3/ 3.7 18			492879	2014 <i>QN</i> ₃₉₆		2 6.8 214°52	0°4/ 7.1 17		
1 2	9 41.89	+23 21.6	2.348	3.164	11.5	19.7	1 2	9 45.79	+12 13.0	2.009	2.803	14.1	23.2
1 12	9 37.38	+24 23.8	2.278	3.173	8.7	19.5	1 12	9 40.70	+12 38.0	1.915	2.796	10.8	22.9
1 22	9 30.92	+25 29.0	2.234	3.181	5.7	19.3	1 22	9 33.28	+13 15.1	1.844	2.788	7.0	22.7
2 1	9 23.09	+26 31.2	2.218	3.190	3.4	19.2	2 1	9 24.10	+14 0.7	1.800	2.780	2.7	22.4
2 11	9 14.74	+27 24.6	2.232	3.199	4.2	19.2	2 11	9 14.11	+14 49.7	1.786	2.771	1.8	22.3
2 21	9 6.76	+28 5.1	2.276	3.208	7.0	19.4	2 21	9 4.38	+15 36.6	1.802	2.761	6.2	22.6
3 2	9 0.03	+28 30.2	2.346	3.216	9.9	19.6	3 2	8 56.00	+16 17.0	1.846	2.750	10.3	22.8
3 12	8 55.17	+28 40.2	2.440	3.225	12.5	19.8	3 12	8 49.79	+16 47.8	1.914	2.739	13.9	23.0
244218	2002 <i>AA</i> ₉₃		2 6.8 245°78	5°4/10.4 17			416654	2004 <i>TF</i> ₁₇₄		2 6.8 105°84	3°2/ 4.5 18		
1 2	9 44.15	- 0 19.9	1.942	2.691	16.0	22.3	1 2	9 47.34	+23 38.4	2.109	2.921	12.8	21.1
1 12	9 39.60	- 0 35.0	1.836	2.675	13.3	22.0	1 12	9 41.59	+24 14.8	2.044	2.936	9.7	20.9
1 22	9 32.66	- 0 30.1	1.750	2.659	10.1	21.8	1 22	9 33.62	+24 52.9	2.003	2.950	6.3	20.7
2 1	9 23.87	- 0 4.1	1.690	2.642	6.9	21.6	2 1	9 24.14	+25 26.9	1.990	2.964	3.5	20.6
2 11	9 14.12	+ 0 41.2	1.657	2.624	5.5	21.4	2 11	9 14.16	+25 51.5	2.007	2.978	4.1	20.7
2 21	9 4.49	+ 1 41.5	1.653	2.606	7.3	21.5	2 21	9 4.75	+26 3.3	2.053	2.992	7.2	20.9
3 2	8 56.11	+ 2 50.5	1.676	2.587	10.8	21.7	3 2	8 56.88	+26 1.3	2.127	3.005	10.4	21.1
3 12	8 49.88	+ 4 1.1	1.723	2.567	14.3	21.8	3 12	8 51.23	+25 46.2	2.223	3.018	13.2	21.3
465988	2011 <i>DL</i> ₁₄		2 6.8 136°03	1°0/ 7.6 16			279032	2008 <i>UX</i> ₃₆₈		2 6.8 127°03	3°9/ 3.1 18		
1 2	9 41.86	+ 9 41.5	2.043	2.835	13.9	21.8	1 2	9 44.04	+25 46.3	2.420	3.233	11.3	21.0
1 12	9 37.55	+10 12.8	1.960	2.839	10.7	21.6	1 12	9 38.99	+26 53.0	2.353	3.244	8.6	20.8
1 22	9 31.15	+10 58.0	1.900	2.842	7.0	21.4	1 22	9 31.96	+28 0.7	2.311	3.255	5.8	20.6
2 1	9 23.24	+11 53.7	1.868	2.846	3.0	21.1	2 1	9 23.53	+29 3.3	2.299	3.266	4.0	20.5
2 11	9 14.70	+12 54.9	1.865	2.849	1.8	21.0	2 11	9 14.59	+29 54.9	2.317	3.276	4.8	20.6
2 21	9 6.51	+13 55.6	1.891	2.852	5.7	21.3	2 21	9 6.04	+30 31.5	2.364	3.285	7.4	20.8
3 2	8 59.59	+14 50.8	1.945	2.855	9.6	21.6	3 2	8 58.75	+30 51.6	2.437	3.295	10.1	21.0
3 12	8 54.67	+15 36.8	2.024	2.858	12.9	21.8	3 12	8 53.39	+30 55.7	2.534	3.304	12.5	21.2
80911	2000 <i>DT</i> ₆₀		2 6.8 206°39	0°0/ 6.6 18			430622	2003 <i>EO</i> ₆₃		2 6.8 291°03	2°3/ 8.8 17		
1 2	9 43.79	+12 47.5	1.989	2.789	14.0	19.7	1 2	9 39.15	+ 6 22.3	2.409	3.184	12.5	21.5
1 12	9 39.16	+13 22.3	1.901	2.786	10.7	19.5	1 12	9 35.28	+ 6 33.6	2.310	3.175	9.9	21.3
1 22	9 32.27	+14 9.2	1.836	2.782	6.8	19.3	1 22	9 29.64	+ 6 58.3	2.235	3.167	6.8	21.1
2 1	9 23.69	+15 4.1	1.798	2.778	2.6	19.0	2 1	9 22.70	+ 7 34.7	2.187	3.158	3.7	20.8
2 11	9 14.36	+16 1.5	1.790	2.774	1.9	18.9	2 11	9 15.17	+ 8 19.8	2.169	3.149	2.4	20.7
2 21	9 5.35	+16 55.5	1.811	2.769	6.2	19.2	2 21	9 7.85	+ 9 9.4	2.180	3.141	5.1	20.9
3 2	8 57.68	+17 41.4	1.860	2.764	10.3	19.4	3 2	9 1.52	+ 9 59.1	2.219	3.132	8.4	21.1
3 12	8 52.15	+18 16.1	1.933	2.759	13.7	19.6	3 12	8 56.82	+10 45.0	2.284	3.124	11.4	21.3
386846	2010 <i>KS</i> ₁₄		2 6.8 286°67	1°6/ 8.4 18			171984	2001 <i>TQ</i> ₁₇₅		2 6.8 63°09	0°4/ 6.5 18		
1 2	9 39.09	+ 5 25.5	2.479	3.249	12.4	20.8	1 2	9 43.47	+15 38.4	2.136	2.940	13.0	20.6
1 12	9 35.34	+ 6 23.4	2.361	3.224	9.8	20.5	1 12	9 38.55	+15 54.0	2.069	2.957	9.8	20.4
1 22	9 29.75	+ 7 39.1	2.267	3.200	6.7	20.3	1 22	9 31.65	+16 16.8	2.026	2.974	6.2	20.2
2 1	9 22.76	+ 9 10.1	2.201	3.175	3.3	20.0	2 1	9 23.40	+16 43.2	2.011	2.992	2.2	20.0
2 11	9 15.02	+10 51.4	2.167	3.150	1.9	19.9	2 11	9 14.72	+17 9.0	2.026	3.009	1.9	20.0
2 21	9 7.32	+12 36.7	2.164	3.125	5.1	20.1	2 21	9 6.53	+17 30.5	2.070	3.027	5.7	20.2
3 2	9 0.49	+14 19.1	2.191	3.100	8.7	20.3	3 2	8 59.70	+17 45.0	2.142	3.045	9.2	20.5
3 12	8 55.25	+15 53.0	2.245	3.074	12.0	20.4	3 12	8 54.83	+17 51.2	2.238	3.062	12.2	20.7
70322	1999 <i>RU</i> ₁₅₀		2 6.8 196°67	0°8/ 6.2 18			231081	2005 <i>QT</i> ₈₂		2 6.8 193°54	1°5/ 7.8 18		
1 2	9 46.17	+15 24.3	2.052	2.852	13.6	20.8	1 2	9 47.70	+ 9 14.0	1.865	2.650	15.3	21.7
1 12	9 40.92	+16 1.7	1.963	2.850	10.3	20.6	1 12	9 42.27	+ 9 32.2	1.774	2.648	12.0	21.5
1 22	9 33.37	+16 48.8	1.899	2.846	6.5	20.4	1 22	9 34.34	+10 5.4	1.706	2.645	8.0	21.2
2 1	9 24.10	+17 41.0	1.862	2.843	2.4	20.1	2 1	9 24.51	+10 50.7	1.665	2.642	3.6	21.0
2 11	9 14.08	+18 32.4	1.855	2.838	2.3	20.1	2 11	9 13.84	+11 43.0	1.654	2.637	2.2	20.8
2 21	9 4.39	+19 17.7	1.879	2.833	6.5	20.3	2 21	9 3.49	+12 36.4	1.672	2.632	6.4	21.1
3 2	8 56.06	+19 52.9	1.930	2.827	10.4	20.5	3 2	8 54.63	+13 25.5	1.718	2.626	10.7	21.3
3 12	8 49.91	+20 16.0	2.005	2.820	13.7	20.7	3 12	8 48.13	+14 6.3	1.787	2.619	14.5	21.6
360450	2002 <i>PP</i> ₆₂		2 6.8 170°07	0°0/ 6.8 17			112974	2002 <i>RP</i> ₂₀		2 6.8 82°40	4°2/ 3.7 18		
1 2	9 45.29	+12 43.5	2.287	3.076	12.7	22.5	1 2	9 46.84	+27 8.9	2.173	2.987	12.4	20.2
1 12	9 39.94	+13 18.3	2.202	3.081	9.7	22.3	1 12	9 41.18	+27 50.3	2.112	3.004	9.5	20.0
1 22	9 32.58	+14 3.4	2.141	3.085	6.2	22.1	1 22	9 33.34	+28 30.5	2.077	3.020	6.4	19.9
2 1	9 23.77	+14 55.1	2.109	3.088	2.3	21.8	2 1	9 24.03	+29 3.6	2.069	3.036	4.3	19.8
2 11	9 14.36	+15 48.4	2.107	3.091	1.7	21.8	2 11	9 14.28	+29 24.2	2.091	3.052	5.1	19.8
2 21	9 5.27	+16 38.4	2.136	3.093	5.6	22.0	2 21	9 5.12	+29 29.6	2.142	3.069	7.7	20.0
3 2	8 57.40	+17 21.2	2.194	3.094	9.1	22.3	3 2	8 57.50	+29 19.4	2.219	3.084	10.6	20.2
3 12	8 51.44	+17 54.3	2.277	3.094	12.2	22.5	3 12	8 52.08	+28 55.2	2.319	3.100	13.1	20.5
467031	2016 <i>CK</i> ₁₉₈		2 6.8 244°37	1°3/ 7.7 18			363136	2001 <i>QH</i> ₂₁₂		2 6.8 115°05	1°0/ 6.0 18		
1 2	9 42.99	+ 9 55.9	1.809	2.607	15.2	21.8	1 2	9 47.25	+17				

EPHEMERIDES

2 6.8

2 6.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
399880	2005 <i>VT</i> ₁₁₅		2 6.8	39°38'	2.7°/ 8.1	18	416955	2005 <i>SK</i> ₁₉₈		2 6.8	182°59'	6°11.6	17
1 2	9 45.84	+ 9 22.1	1.216	2.035	19.9	20.7	1 2	9 43.75	- 4 11.8	2.322	3.038	14.6	21.8
1 12	9 41.68	+ 9 6.1	1.153	2.044	15.6	20.4	1 12	9 38.79	- 4 40.4	2.228	3.039	12.3	21.6
1 22	9 34.28	+ 9 8.5	1.109	2.053	10.5	20.2	1 22	9 31.89	- 4 50.7	2.156	3.039	9.7	21.4
2 1	9 24.52	+ 9 27.2	1.088	2.064	5.1	19.9	2 1	9 23.58	- 4 41.2	2.108	3.039	7.3	21.3
2 11	9 13.90	+ 9 56.9	1.092	2.075	3.2	19.8	2 11	9 14.63	- 4 12.9	2.089	3.038	6.2	21.2
2 21	9 4.05	+10 31.0	1.121	2.086	8.1	20.1	2 21	9 5.93	- 3 28.9	2.098	3.037	7.1	21.2
3 2	8 56.45	+11 3.2	1.174	2.098	13.1	20.4	3 2	8 58.33	- 2 34.0	2.136	3.035	9.4	21.4
3 12	8 52.04	+11 28.3	1.248	2.110	17.5	20.7	3 12	8 52.53	- 1 34.1	2.198	3.032	12.0	21.5
249282	2008 <i>SR</i> ₂₈₃		2 6.8	71°65'	6°0/10.6	18	118603	2000 <i>GU</i> ₁₁₁		2 6.8	330°64'	4°5/ 9.2	18
1 2	9 45.04	- 0 31.1	2.059	2.801	15.4	20.6	1 2	9 44.24	+ 4 55.4	1.378	2.176	19.1	20.0
1 12	9 39.87	- 1 25.7	1.978	2.810	12.8	20.4	1 12	9 40.36	+ 4 33.9	1.298	2.173	15.4	19.7
1 22	9 32.59	- 2 3.9	1.919	2.819	9.8	20.2	1 22	9 33.48	+ 4 33.4	1.237	2.170	11.0	19.4
2 1	9 23.81	- 2 23.9	1.886	2.828	7.2	20.1	2 1	9 24.30	+ 4 53.9	1.198	2.167	6.5	19.2
2 11	9 14.43	- 2 26.1	1.881	2.837	6.0	20.0	2 11	9 14.08	+ 5 32.1	1.186	2.164	4.7	19.0
2 21	9 5.44	- 2 13.0	1.903	2.846	7.3	20.1	2 21	9 4.30	+ 6 21.7	1.199	2.162	8.1	19.2
3 2	8 57.77	- 1 48.6	1.953	2.855	10.0	20.3	3 2	8 56.40	+ 7 15.2	1.237	2.159	12.7	19.5
3 12	8 52.13	- 1 18.2	2.027	2.864	12.7	20.5	3 12	8 51.39	+ 8 5.3	1.296	2.158	17.0	19.7
77489	2001 <i>HC</i> ₃₅		2 6.8	138°54'	4°2/10.5	18 R	418204	2008 <i>CE</i> ₁₁₀		2 6.8	249°98'	1°8/ 8.0	18
1 2	9 41.52	+ 0 26.1	2.498	3.239	13.0	19.3	1 2	9 43.15	+ 8 51.7	1.831	2.625	15.2	21.8
1 12	9 36.89	+ 0 14.8	2.411	3.247	10.6	19.1	1 12	9 38.86	+ 9 4.2	1.742	2.620	11.9	21.5
1 22	9 30.56	+ 0 18.7	2.347	3.254	7.9	19.0	1 22	9 32.19	+ 9 31.8	1.676	2.616	8.0	21.3
2 1	9 23.03	+ 0 37.6	2.310	3.261	5.4	18.8	2 1	9 23.75	+10 12.1	1.635	2.611	3.8	21.0
2 11	9 15.01	+ 1 9.6	2.302	3.267	4.2	18.8	2 11	9 14.50	+11 0.5	1.623	2.606	2.3	20.9
2 21	9 7.27	+ 1 51.2	2.323	3.274	5.6	18.9	2 21	9 5.58	+11 51.4	1.639	2.601	6.3	21.1
3 2	8 50.56	+ 2 38.3	2.372	3.280	8.2	19.0	3 2	8 58.07	+12 39.2	1.682	2.596	10.5	21.4
3 12	8 55.46	+ 3 26.4	2.448	3.285	10.8	19.2	3 12	8 52.81	+13 19.5	1.749	2.591	14.2	21.6
488883	2005 <i>SK</i> ₂₂₂		2 6.8	92°55'	1°8/ 8.0	18	292025	2006 <i>QB</i> ₁₅₆		2 6.8	333°79'	1°9/ 8.5	18
1 2	9 48.50	+ 7 14.5	1.570	2.358	17.6	21.3	1 2	9 38.65	+ 6 18.8	2.151	2.934	13.6	20.7
1 12	9 42.86	+ 7 56.3	1.513	2.388	13.6	21.1	1 12	9 35.11	+ 6 56.8	2.060	2.930	10.7	20.5
1 22	9 34.59	+ 8 57.3	1.479	2.418	8.9	20.9	1 22	9 29.64	+ 7 51.4	1.991	2.927	7.2	20.3
2 1	9 24.54	+10 12.5	1.471	2.447	4.1	20.6	2 1	9 22.76	+ 9 0.0	1.950	2.924	3.6	20.0
2 11	9 13.95	+11 34.2	1.491	2.474	2.3	20.6	2 11	9 15.24	+10 17.5	1.938	2.921	2.1	19.9
2 21	9 4.13	+12 54.0	1.540	2.502	6.7	20.9	2 21	9 7.96	+11 37.8	1.956	2.918	5.4	20.1
3 2	8 56.20	+14 5.1	1.617	2.528	11.0	21.2	3 2	9 1.80	+12 54.8	2.002	2.916	9.1	20.3
3 12	8 50.91	+15 3.1	1.716	2.553	14.7	21.5	3 12	8 57.46	+14 3.5	2.073	2.913	12.4	20.5
156832	2003 <i>BS</i> ₈₄		2 6.8	80°58'	3°8/ 4.5	18	38207	1999 <i>MM</i> ₁		2 6.8	207°54'	1°0/ 6.0	18
1 2	9 48.40	+20 42.4	1.379	2.210	17.3	19.9	1 2	9 46.42	+15 57.2	2.020	2.822	13.7	19.5
1 12	9 43.40	+21 48.1	1.324	2.227	13.1	19.7	1 12	9 41.20	+16 34.7	1.930	2.817	10.4	19.2
1 22	9 35.23	+23 1.4	1.291	2.244	8.3	19.5	1 22	9 33.62	+17 21.8	1.863	2.811	6.6	19.0
2 1	9 24.85	+24 12.8	1.283	2.260	4.2	19.3	2 1	9 24.27	+18 13.6	1.824	2.804	2.5	18.7
2 11	9 13.72	+25 12.1	1.302	2.277	5.2	19.4	2 11	9 14.12	+19 4.2	1.815	2.797	2.4	18.7
2 21	9 3.45	+25 52.5	1.348	2.293	9.5	19.7	2 21	9 4.27	+19 48.1	1.836	2.789	6.6	18.9
3 2	8 55.42	+26 11.6	1.418	2.309	13.7	20.0	3 2	8 55.81	+20 21.4	1.884	2.780	10.6	19.2
3 12	8 50.51	+26 10.5	1.508	2.325	17.4	20.2	3 12	8 49.57	+20 42.2	1.956	2.771	14.0	19.4
502529	2015 <i>BY</i> ₄₃₈		2 6.8	16°55'	0°4/ 7.1	17	30249	Zamora		2 6.8	115°17'	3°6/ 9.0	18
1 2	9 41.18	+12 15.4	2.100	2.899	13.3	21.9	1 2	9 47.04	+ 5 10.5	1.644	2.424	17.2	18.6
1 12	9 37.03	+12 39.8	2.016	2.900	10.2	21.7	1 12	9 41.84	+ 5 4.4	1.571	2.437	13.7	18.4
1 22	9 30.84	+13 15.4	1.955	2.901	6.6	21.5	1 22	9 34.05	+ 5 16.8	1.520	2.450	9.6	18.2
2 1	9 23.17	+13 58.8	1.922	2.902	2.6	21.2	2 1	9 24.41	+ 5 46.5	1.494	2.463	5.4	18.0
2 11	9 14.90	+14 45.2	1.918	2.903	1.7	21.1	2 11	9 14.07	+ 6 29.1	1.496	2.475	3.7	17.9
2 21	9 6.96	+15 29.7	1.944	2.904	5.7	21.4	2 21	9 4.30	+ 7 18.8	1.526	2.487	6.9	18.1
3 2	9 0.26	+16 8.2	1.997	2.905	9.4	21.6	3 2	8 56.24	+ 8 9.5	1.583	2.498	11.0	18.4
3 12	8 55.51	+16 37.8	2.074	2.906	12.7	21.9	3 12	8 50.72	+ 8 55.6	1.663	2.509	14.7	18.6
375296	2008 <i>PH</i> ₇		2 6.8	167°52'	2°4/ 8.8	18	289291	2004 <i>YQ</i> ₁₆		2 6.8	58°79'	1°0/ 6.2	18
1 2	9 43.33	+ 6 16.4	2.573	3.336	12.2	21.9	1 2	9 46.26	+15 0.9	1.350	2.175	18.0	21.0
1 12	9 38.22	+ 6 17.9	2.483	3.340	9.6	21.7	1 12	9 41.66	+15 40.9	1.297	2.196	13.6	20.8
1 22	9 31.40	+ 6 31.2	2.417	3.345	6.7	21.5	1 22	9 34.07	+16 34.0	1.264	2.216	8.5	20.5
2 1	9 23.35	+ 6 54.8	2.380	3.348	3.7	21.4	2 1	9 24.41	+17 33.2	1.256	2.237	3.1	20.3
2 11	9 14.80	+ 7 26.2	2.372	3.351	2.5	21.3	2 11	9 14.12	+18 29.9	1.275	2.258	2.9	20.3
2 21	9 6.52	+ 8 1.9	2.395	3.353	4.9	21.4	2 21	9 4.67	+19 16.8	1.321	2.280	8.0	20.7
3 2	8 59.28	+ 8 38.3	2.448	3.355	8.0	21.6	3 2	8 57.37	+19 49.5	1.392	2.301	12.6	21.0
3 12	8 53.65	+ 9 12.1	2.526	3.357	10.7	21.8	3 12	8 53.01	+20 6.6	1.484	2.322	16.5	21.3
245133	2004 <i>RL</i> ₉₄		2 6.8	154°72'	2°1/ 8.3	18	320379	2007 <i>UE</i> ₄		2 6.8	55°47'	4°2/10.5	18
1 2	9 43.42	+ 8 10.6	2.111	2.892	13.9	20.7	1 2	9 39.43	+ 0 38.2	2.162	2.918	14.4	20.3
1 12	9 38.67	+ 8 14.6	2.025	2.896	10.9	20.5	1 12	9 35.58	+ 0 44.3	2.081	2.927	11.7	20.1
1 22	9 31.85	+ 8 31.5	1.963	2.899	7.3	20.3	1 22	9 29.85	+ 1 8.8	2.022	2.936	8.6	20.0
2 1	9 23.55	+ 8 59.5	1.928	2.902	3.7	20.1	2 1	9 22.81	+ 1 50.8	1.989	2.945	5.6	19.8
2 11	9 14.65	+ 9 35.0	1.922	2.904	2.4	20.0	2 11	9 15.24	+ 2 47.1	1.984	2.955	4.2	19.7
2 21	9 6.08	+10 13.6	1.946	2.907	5.6	20.2	2 21	9 8.01	+ 3 52.6	2.008	2.964	5.9	19.8
3 2	8 58.78	+10 51.2	1.997	2.909	9.3	20.4	3 2	9 1.92	+ 5 1.8	2.059	2.974	8.8	20.0
3 12	8 53.45	+11 23.9	2.074	2.911	12.5	20.6	3 12	8 57.63	+ 6 8.8	2.136	2.984	11.8	20.2
234894	2002 <i>TA</i> ₁₃₇		2 6.8	129°30'	1°6/ 5.5	18	2945	Zanstra		2 6.8	148°58'	0°8/ 6.1	18
1 2	9 45.07	+19 58.9	2.463	3.265	11.5	20.3	1 2	9 44.47	+15 44.6	2.176	2.977		

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
484061	2006 <i>HX</i> ₈		2 6.8 135°60	5°9/ 3.4 18			88698	2001 <i>RQ</i> ₁₄₂		2 6.8 140°23	3°3/ 4.5 18		
1 2	9 53.11	+29 20.2	1.699	2.517	15.2	21.1	1 2	9 49.33	+21 15.2	1.807	2.620	14.6	20.2
1 12	9 46.68	+30 8.6	1.634	2.524	11.8	20.9	1 12	9 43.55	+22 16.6	1.739	2.632	11.0	20.0
1 22	9 37.21	+30 54.5	1.592	2.532	8.3	20.7	1 22	9 35.14	+23 23.7	1.695	2.644	7.1	19.8
2 1	9 25.60	+31 28.7	1.576	2.539	6.0	20.6	2 1	9 24.84	+24 28.9	1.679	2.655	3.7	19.6
2 11	9 13.25	+31 44.0	1.589	2.545	6.9	20.6	2 11	9 13.84	+25 24.3	1.692	2.665	4.5	19.7
2 21	9 1.72	+31 36.9	1.628	2.551	10.0	20.8	2 21	9 3.42	+26 4.3	1.734	2.674	8.2	19.9
3 2	8 52.34	+31 8.1	1.694	2.557	13.4	21.1	3 2	8 54.77	+26 26.4	1.803	2.683	11.9	20.1
3 12	8 45.97	+30 21.7	1.780	2.562	16.5	21.3	3 12	8 48.70	+26 31.1	1.893	2.691	15.1	20.4
228258	1999 <i>NV</i> ₅₆		2 6.8 118°08	3°6/ 9.7 18			377167	2003 <i>SS</i> ₃₇₁		2 6.8 128°35	0°0/ 6.6 17		
1 2	9 44.26	+3 2.6	2.395	3.146	13.3	20.5	1 2	9 43.30	+13 46.9	2.205	3.003	12.8	22.0
1 12	9 38.94	+2 51.7	2.318	3.163	10.6	20.3	1 12	9 38.50	+14 7.9	2.125	3.009	9.8	21.8
1 22	9 31.84	+2 54.9	2.264	3.180	7.7	20.1	1 22	9 31.72	+14 38.0	2.069	3.015	6.2	21.6
2 1	9 23.52	+3 11.5	2.238	3.197	4.8	20.0	2 1	9 23.53	+15 13.7	2.041	3.021	2.3	21.3
2 11	9 14.75	+3 39.1	2.241	3.213	3.6	19.9	2 11	9 14.79	+15 50.5	2.042	3.026	1.7	21.3
2 21	9 6.37	+4 14.3	2.274	3.228	5.5	20.1	2 21	9 6.42	+16 24.4	2.074	3.032	5.6	21.5
3 2	8 59.13	+4 52.9	2.336	3.243	8.3	20.3	3 2	8 59.30	+16 51.8	2.133	3.037	9.2	21.8
3 12	8 53.64	+5 31.0	2.423	3.258	11.0	20.5	3 12	8 54.10	+17 10.8	2.217	3.042	12.2	22.0
245632	2005 <i>XC</i> ₅₄		2 6.8 54°95	3°8/ 4.7 18			103677	2000 <i>CT</i> ₅₉		2 6.8 292°13	1°6/ 8.1 17		
1 2	9 47.77	+20 39.9	1.217	2.056	18.6	20.4	1 2	9 39.73	+7 42.6	2.081	2.870	13.8	19.5
1 12	9 43.20	+21 38.2	1.167	2.074	14.0	20.2	1 12	9 36.14	+8 14.8	1.977	2.851	10.9	19.2
1 22	9 35.23	+22 44.3	1.138	2.093	8.9	20.0	1 22	9 30.44	+9 3.3	1.895	2.833	7.3	19.0
2 1	9 24.89	+23 48.2	1.134	2.112	4.4	19.8	2 1	9 23.13	+10 5.8	1.840	2.815	3.5	18.7
2 11	9 13.82	+24 39.6	1.155	2.131	5.3	19.9	2 11	9 15.02	+11 17.4	1.814	2.797	2.0	18.6
2 21	9 3.77	+25 11.7	1.201	2.150	9.9	20.2	2 21	9 7.04	+12 32.1	1.817	2.779	5.8	18.8
3 2	8 56.19	+25 22.2	1.271	2.170	14.4	20.5	3 2	9 0.18	+13 43.6	1.848	2.761	9.8	19.0
3 12	8 51.95	+25 12.8	1.361	2.190	18.2	20.8	3 12	8 55.24	+14 46.9	1.904	2.743	13.3	19.2
227676	2006 <i>CA</i> ₁₈		2 6.8 22°04	1°8/ 5.5 18			432544	2010 <i>HJ</i> ₇₉		2 6.8 330°27	3°0/ 4.6 17		
1 2	9 42.49	+17 48.4	1.716	2.539	14.8	19.9	1 2	9 42.11	+21 44.4	1.947	2.770	13.3	21.1
1 12	9 38.48	+18 29.2	1.643	2.542	11.2	19.7	1 12	9 38.08	+22 26.5	1.863	2.762	10.1	20.9
1 22	9 31.97	+19 18.9	1.594	2.546	7.0	19.5	1 22	9 31.69	+23 13.7	1.803	2.754	6.5	20.7
2 1	9 23.67	+20 11.5	1.571	2.551	2.8	19.2	2 1	9 23.58	+24 0.0	1.770	2.747	3.4	20.5
2 11	9 14.65	+21 0.3	1.575	2.556	3.2	19.2	2 11	9 14.73	+24 39.2	1.765	2.739	4.1	20.5
2 21	9 6.13	+21 39.3	1.608	2.561	7.4	19.5	2 21	9 6.23	+25 6.3	1.788	2.732	7.6	20.7
3 2	8 59.22	+22 4.8	1.666	2.567	11.5	19.8	3 2	8 59.16	+25 18.6	1.837	2.726	11.2	20.9
3 12	8 54.73	+22 15.8	1.746	2.573	15.0	20.0	3 12	8 54.33	+25 15.9	1.909	2.720	14.5	21.1
464111	2014 <i>WH</i> ₄₄₉		2 6.8 96°31	3°1/ 4.7 18			317399	2002 <i>PC</i> ₁₁₃		2 6.8 243°87	0°3/ 6.9 18		
1 2	9 46.09	+22 16.4	1.889	2.707	13.8	21.3	1 2	10 1.04	+18 21.6	1.192	2.008	20.4	20.2
1 12	9 41.02	+22 54.4	1.816	2.712	10.5	21.1	1 12	9 53.88	+17 26.3	1.110	2.002	15.9	19.9
1 22	9 33.49	+23 36.3	1.766	2.716	6.8	20.9	1 22	9 42.47	+16 32.9	1.048	1.996	10.4	19.6
2 1	9 24.21	+24 15.7	1.744	2.720	3.5	20.7	2 1	9 27.78	+15 38.3	1.010	1.990	4.0	19.2
2 11	9 14.26	+24 46.5	1.750	2.724	4.2	20.8	2 11	9 11.68	+14 40.0	1.000	1.984	2.8	19.1
2 21	9 4.84	+25 4.4	1.785	2.729	7.7	21.0	2 21	8 56.43	+13 37.7	1.017	1.977	9.5	19.4
3 2	8 57.03	+25 7.5	1.846	2.733	11.3	21.2	3 2	8 44.08	+12 33.3	1.059	1.971	15.4	19.7
3 12	8 51.61	+24 56.2	1.930	2.737	14.5	21.4	3 12	8 35.87	+11 28.6	1.121	1.964	20.4	20.0
339556	2005 <i>JA</i> ₁₂₁		2 6.8 92°37	3°5/ 3.5 18			325337	2008 <i>JH</i> ₃₇		2 6.8 134°64	2°4/ 4.7 18		
1 2	9 42.46	+24 0.5	2.329	3.146	11.6	20.5	1 2	9 44.00	+19 5.2	2.232	3.040	12.3	21.3
1 12	9 37.88	+25 6.3	2.262	3.156	8.8	20.4	1 12	9 39.09	+20 14.9	2.160	3.051	9.3	21.1
1 22	9 31.31	+26 14.5	2.220	3.167	5.8	20.2	1 22	9 32.12	+21 31.5	2.113	3.062	5.8	20.9
2 1	9 23.36	+27 19.1	2.207	3.178	3.7	20.1	2 1	9 23.69	+22 48.6	2.095	3.072	2.8	20.7
2 11	9 14.89	+28 14.0	2.224	3.188	4.5	20.1	2 11	9 14.68	+23 59.8	2.107	3.082	3.4	20.8
2 21	9 6.80	+28 55.0	2.269	3.199	7.2	20.3	2 21	9 6.04	+24 59.5	2.150	3.091	6.7	21.0
3 2	8 59.98	+29 20.0	2.342	3.209	10.1	20.5	3 2	8 58.69	+25 44.5	2.220	3.100	10.0	21.2
3 12	8 55.07	+29 29.2	2.438	3.219	12.6	20.7	3 12	8 53.31	+26 13.7	2.314	3.109	12.8	21.4
89374	2001 <i>VW</i> ₈₉		2 6.8 178°83	5°3/ 2.0 18			54648	2000 <i>SL</i> ₃₀₇		2 6.8 307°12	0°4/ 6.5 18		
1 2	9 45.62	+27 30.3	2.123	2.941	12.5	19.5	1 2	9 43.05	+16 26.2	2.293	3.096	12.2	18.6
1 12	9 40.66	+29 0.8	2.050	2.942	9.7	19.3	1 12	9 38.34	+16 31.4	2.200	3.088	9.3	18.4
1 22	9 33.31	+30 32.8	2.002	2.943	6.9	19.2	1 22	9 31.65	+16 42.5	2.132	3.080	5.9	18.2
2 1	9 24.17	+31 58.1	1.984	2.943	5.3	19.1	2 1	9 23.53	+16 56.8	2.092	3.072	2.2	17.9
2 11	9 14.27	+33 8.4	1.994	2.943	6.4	19.1	2 11	9 14.79	+17 10.5	2.081	3.064	1.8	17.8
2 21	9 4.72	+33 58.6	2.033	2.943	9.1	19.3	2 21	9 6.35	+17 20.5	2.100	3.057	5.6	18.1
3 2	8 56.63	+34 26.5	2.097	2.942	12.0	19.5	3 2	8 59.10	+17 24.5	2.147	3.050	9.2	18.3
3 12	8 50.83	+34 33.3	2.184	2.941	14.6	19.7	3 12	8 53.71	+17 21.2	2.219	3.042	12.3	18.5
273740	2007 <i>EU</i> ₁₁₄		2 6.8 214°33	3°4/ 4.3 17			211630	2003 <i>UE</i> ₁₃₅		2 6.8 155°88	0°7/ 7.3 18		
1 2	9 44.78	+22 53.1	2.021	2.839	13.1	21.0	1 2	9 46.22	+11 42.3	1.907	2.701	14.7	21.5
1 12	9 39.98	+23 42.3	1.942	2.837	9.9	20.7	1 12	9 41.02	+12 2.5	1.827	2.707	11.3	21.3
1 22	9 32.84	+24 35.4	1.887	2.836	6.5	20.5	1 22	9 33.48	+12 34.9	1.769	2.713	7.3	21.0
2 1	9 23.99	+25 26.1	1.859	2.834	3.6	20.4	2 1	9 24.24	+13 16.1	1.739	2.718	2.9	20.8
2 11	9 14.43	+26 7.9	1.861	2.832	4.4	20.4	2 11	9 14.31	+14 0.8	1.738	2.722	1.8	20.7
2 21	9 5.28	+26 36.2	1.891	2.830	7.7	20.6	2 21	9 4.81	+14 43.8	1.766	2.726	6.2	21.0
3 2	8 57.59	+26 48.6	1.948	2.828	11.2	20.8	3 2	8 56.78	+15 20.6	1.823	2.730	10.3	21.2
3 12	8 52.14	+26 45.3	2.027	2.825	14.2	21.0	3 12	8 51.02	+15 48.3	1.903	2.733	13.8	21.5
199192	2005 <i>YK</i> ₂₉₀		2 6.8 275°46	0°6/ 7.1 18			98371	2000 <i>TL</i> ₁₉		2 6.8 175°79	3°3/ 4.3 18		
1 2	9 46.60	+14 17.0	2.024	2.821	13.8	20.1	1 2	9 47.11	+20 52.2				

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
164323	2005 AS ₄₆		2 6.8 161°37'	0°9/ 6.1 18			246046	2006 US ₂₀₉		2 6.8 82°20'	7°1/ 2.5 18		
1 2	9 45.95	+15 14.1	1.778	2.587	15.0	20.5	1 2	9 52.31	+32 27.9	1.726	2.545	14.9	20.1
1 12	9 41.05	+15 55.4	1.699	2.590	11.4	20.3	1 12	9 45.96	+33 31.7	1.678	2.565	11.7	20.0
1 22	9 33.61	+16 48.0	1.644	2.594	7.2	20.1	1 22	9 36.67	+34 29.4	1.653	2.585	8.7	19.8
2 1	9 24.32	+17 46.4	1.616	2.596	2.6	19.8	2 1	9 25.40	+35 11.7	1.654	2.605	7.1	19.8
2 11	9 14.25	+18 43.6	1.616	2.599	2.5	19.8	2 11	9 13.60	+35 31.5	1.682	2.625	8.0	19.9
2 21	9 4.62	+19 33.4	1.646	2.601	7.1	20.1	2 21	9 2.75	+35 26.1	1.738	2.644	10.6	20.1
3 2	8 56.60	+20 11.4	1.702	2.603	11.3	20.3	3 2	8 54.10	+34 57.3	1.817	2.663	13.5	20.3
3 12	8 51.01	+20 35.6	1.781	2.604	14.8	20.6	3 12	8 48.40	+34 9.6	1.917	2.682	16.1	20.5
182553	2001 TW ₁₀₀		2 6.8 128°45'	4°9/ 11.1 18			420589	2012 HD ₃₀		2 6.8 284°28'	0°9/ 6.1 18		
1 2	9 43.40	- 1 45.7	2.281	3.013	14.4	21.1	1 2	9 42.79	+15 20.4	1.835	2.648	14.4	21.3
1 12	9 38.44	- 1 48.6	2.201	3.028	11.8	20.9	1 12	9 38.73	+15 58.4	1.744	2.637	11.0	21.1
1 22	9 31.62	- 1 33.0	2.143	3.042	9.0	20.8	1 22	9 32.22	+16 47.9	1.676	2.626	7.0	20.8
2 1	9 23.49	- 0 59.1	2.110	3.056	6.2	20.6	2 1	9 23.85	+17 43.9	1.634	2.615	2.6	20.5
2 11	9 14.86	- 0 9.5	2.107	3.070	4.9	20.6	2 11	9 14.60	+18 40.0	1.621	2.604	2.5	20.5
2 21	9 6.59	+ 0 51.5	2.133	3.082	6.2	20.7	2 21	9 5.64	+19 30.0	1.636	2.593	7.0	20.8
3 2	8 59.49	+ 1 58.2	2.187	3.094	8.8	20.9	3 2	8 58.09	+20 9.1	1.678	2.582	11.2	21.0
3 12	8 54.18	+ 3 5.1	2.268	3.106	11.5	21.0	3 12	8 52.86	+20 34.7	1.743	2.571	14.9	21.2
519361	2011 KP ₄₉		2 6.8 160°22'	1°5/ 8.2 17			422033	2014 QU ₃₄₈		2 6.8 354°48'	2°4/ 8.4 18		
1 2	9 40.42	+ 7 43.6	2.487	3.264	12.2	21.8	1 2	9 41.90	+ 7 4.1	1.554	2.354	17.2	20.8
1 12	9 36.16	+ 8 14.8	2.399	3.267	9.5	21.6	1 12	9 38.28	+ 7 23.5	1.473	2.353	13.5	20.6
1 22	9 30.18	+ 8 58.8	2.335	3.270	6.3	21.4	1 22	9 32.02	+ 8 3.0	1.412	2.352	9.2	20.3
2 1	9 22.97	+ 9 53.0	2.299	3.273	3.0	21.2	2 1	9 23.78	+ 8 59.9	1.377	2.352	4.6	20.0
2 11	9 15.25	+10 53.5	2.293	3.276	1.8	21.1	2 11	9 14.67	+10 8.2	1.368	2.351	2.7	19.9
2 21	9 7.78	+11 55.5	2.317	3.278	4.9	21.3	2 21	9 5.96	+11 20.3	1.387	2.351	7.0	20.2
3 2	9 1.31	+12 54.4	2.371	3.280	8.1	21.5	3 2	8 58.87	+12 28.6	1.431	2.351	11.6	20.4
3 12	8 56.46	+13 46.7	2.450	3.282	11.0	21.7	3 12	8 54.34	+13 27.0	1.498	2.351	15.6	20.7
208192	2000 QW ₂₀₃		2 6.8 136°15'	1°5/ 5.7 18			239717	2009 BM ₁₅		2 6.8 271°20'	4°2/ 8.8 18		
1 2	9 48.74	+17 26.7	1.954	2.757	14.0	21.3	1 2	9 47.78	+ 6 30.2	1.662	2.445	17.0	20.5
1 12	9 42.84	+18 8.7	1.884	2.772	10.6	21.1	1 12	9 42.81	+ 5 49.6	1.561	2.429	13.7	20.3
1 22	9 34.56	+18 58.2	1.837	2.786	6.7	20.8	1 22	9 35.00	+ 5 22.9	1.482	2.412	9.8	20.0
2 1	9 24.62	+19 49.8	1.819	2.799	2.6	20.6	2 1	9 24.96	+ 5 10.9	1.427	2.395	5.8	19.7
2 11	9 14.08	+20 37.2	1.831	2.812	2.8	20.7	2 11	9 13.77	+ 5 12.1	1.400	2.377	4.4	19.6
2 21	9 4.07	+21 15.3	1.873	2.824	6.8	20.9	2 21	9 2.78	+ 5 23.6	1.401	2.359	7.6	19.7
3 2	8 55.65	+21 41.0	1.942	2.835	10.6	21.2	3 2	8 53.34	+ 5 41.1	1.428	2.342	12.0	19.9
3 12	8 49.57	+21 53.6	2.036	2.845	13.8	21.4	3 12	8 46.53	+ 5 59.7	1.477	2.324	16.2	20.2
122404	2000 QE ₈₆		2 6.8 195°54'	1°2/ 7.5 18			109913	2001 SV ₂₅		2 6.8 268°71'	2°8/ 4.9 18		
1 2	9 47.96	+11 28.1	1.819	2.612	15.3	20.2	1 2	9 45.80	+21 6.0	1.819	2.638	14.3	19.8
1 12	9 42.54	+11 29.7	1.731	2.611	11.9	20.0	1 12	9 41.06	+21 44.2	1.733	2.630	10.9	19.6
1 22	9 34.56	+11 43.2	1.666	2.608	7.8	19.7	1 22	9 33.71	+22 28.2	1.671	2.621	7.0	19.3
2 1	9 24.69	+12 6.0	1.628	2.606	3.4	19.5	2 1	9 24.40	+23 11.9	1.635	2.613	3.4	19.1
2 11	9 13.99	+12 33.7	1.618	2.602	2.1	19.4	2 11	9 14.23	+23 48.4	1.628	2.604	4.0	19.1
2 21	9 3.69	+13 1.7	1.638	2.599	6.5	19.6	2 21	9 4.44	+24 12.5	1.649	2.596	7.9	19.3
3 2	8 54.94	+13 25.8	1.685	2.594	10.8	19.9	3 2	8 56.25	+24 21.5	1.696	2.587	11.9	19.5
3 12	8 48.61	+13 43.0	1.756	2.590	14.6	20.1	3 12	8 50.55	+24 15.3	1.766	2.578	15.4	19.7
7789	Kwiatkowski		2 6.8 114°78'	0°7/ 7.2 18			248918	2006 VU ₁₂₃		2 6.8 68°89'	2°3/ 5.2 18		
1 2	9 49.54	+12 36.5	1.655	2.455	16.3	18.0	1 2	9 50.45	+18 11.4	1.699	2.509	15.5	20.5
1 12	9 43.73	+12 44.8	1.586	2.470	12.5	17.8	1 12	9 44.08	+19 13.8	1.660	2.552	11.5	20.3
1 22	9 35.24	+13 5.2	1.540	2.485	8.1	17.6	1 22	9 35.23	+20 22.8	1.645	2.595	7.2	20.2
2 1	9 24.90	+13 33.6	1.520	2.500	3.2	17.3	2 1	9 24.81	+21 30.7	1.658	2.637	3.0	20.0
2 11	9 13.90	+14 5.0	1.529	2.514	2.0	17.3	2 11	9 14.08	+22 29.8	1.700	2.678	3.5	20.1
2 21	9 3.55	+14 34.0	1.567	2.527	6.8	17.6	2 21	9 4.26	+23 15.0	1.772	2.719	7.4	20.5
3 2	8 55.05	+14 56.8	1.631	2.540	11.1	17.9	3 2	8 56.38	+23 44.0	1.870	2.759	11.1	20.8
3 12	8 49.18	+15 11.0	1.719	2.552	14.8	18.1	3 12	8 51.08	+23 57.2	1.991	2.798	14.1	21.0
432473	2010 DU ₃₃		2 6.8 209°17'	4°7/ 1.6 17			410371	2007 VQ ₁₅₆		2 6.8 244°35'	2°0/ 5.6 17		
1 2	9 42.86	+30 14.3	2.847	3.657	9.9	21.0	1 2	9 47.27	+18 32.6	1.761	2.575	14.9	22.0
1 12	9 38.06	+31 25.7	2.767	3.653	7.7	20.9	1 12	9 42.30	+19 7.5	1.670	2.564	11.4	21.8
1 22	9 31.42	+32 36.1	2.714	3.647	5.7	20.7	1 22	9 34.59	+19 51.0	1.602	2.552	7.2	21.5
2 1	9 23.46	+33 39.7	2.690	3.642	4.7	20.7	2 1	9 24.77	+20 37.1	1.560	2.540	3.0	21.2
2 11	9 14.91	+34 31.0	2.696	3.636	5.5	20.7	2 11	9 13.96	+21 19.1	1.548	2.528	3.3	21.2
2 21	9 6.59	+35 6.7	2.731	3.630	7.5	20.8	2 21	9 3.48	+21 51.1	1.563	2.515	7.8	21.4
3 2	8 59.33	+35 25.3	2.793	3.624	9.7	21.0	3 2	8 54.62	+22 9.3	1.605	2.502	12.1	21.6
3 12	8 53.76	+35 27.4	2.878	3.617	11.8	21.1	3 12	8 48.34	+22 12.9	1.670	2.488	15.9	21.9
202262	2005 AO ₅₅		2 6.8 31°18'	0°6/ 7.2 18			162779	2000 XE ₃₀		2 6.8 75°17'	5°1/ 4.2 18		
1 2	9 43.29	+11 36.1	1.360	2.181	18.1	20.1	1 2	9 54.15	+26 35.9	1.502	2.324	16.6	19.1
1 12	9 39.60	+12 0.5	1.292	2.187	13.9	19.8	1 12	9 47.41	+27 18.9	1.456	2.351	12.6	18.9
1 22	9 32.94	+12 42.1	1.244	2.193	9.0	19.6	1 22	9 37.58	+28 0.6	1.432	2.378	8.5	18.7
2 1	9 24.12	+13 36.0	1.220	2.200	3.6	19.3	2 1	9 25.74	+28 32.2	1.435	2.404	5.4	18.6
2 11	9 14.44	+14 34.9	1.222	2.207	2.3	19.2	2 11	9 13.44	+28 46.4	1.465	2.431	6.1	18.7
2 21	9 5.37	+15 30.7	1.251	2.214	7.7	19.6	2 21	9 2.28	+28 40.5	1.522	2.457	9.6	19.0
3 2	8 58.26	+16 17.0	1.304	2.222	12.6	19.9	3 2	8 53.52	+28 15.3	1.604	2.482	13.2	19.3
3 12	8 54.03	+16 49.9	1.379	2.231	16.8	20.1	3 12	8 47.90	+27 34.7	1.708	2.507	16.4	19.5
454092	2013 BX ₃₄		2 6.8 224°24'	0°3/ 6.6 18			205339	2000 VQ ₅₃		2 6.8 160°24'	3°6/ 4.3 18		
1 2	9 45.81	+13 19.8	1.651	2.460	16.0	22.0	1 2	9 49.47	+23 17.3	1.923	2.735	13.9	20.5
1 12	9 41.25	+1											

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
95613	2002 <i>FG</i> ₃₇		2 6.8 145°78	2°8/ 4.5	18		12319	1992 <i>PC</i>		2 6.8 124°48	2°6/ 8.5	18	
1 2	9 44.05	+20 56.1	2.055	2.871	13.0	19.6	1 2	9 48.36	+6 27.7	1.695	2.476	16.8	19.0
1 12	9 39.37	+21 51.7	1.979	2.874	9.8	19.4	1 12	9 42.79	+6 44.2	1.625	2.493	13.2	18.8
1 22	9 32.44	+22 53.0	1.927	2.877	6.3	19.2	1 22	9 34.66	+7 18.9	1.576	2.510	8.9	18.6
2 1	9 23.89	+23 53.6	1.904	2.880	3.2	19.0	2 1	9 24.73	+8 8.9	1.554	2.527	4.5	18.4
2 11	9 14.68	+24 47.1	1.909	2.883	3.9	19.1	2 11	9 14.14	+9 8.5	1.560	2.542	2.8	18.3
2 21	9 5.87	+25 28.3	1.944	2.886	7.3	19.3	2 21	9 4.12	+10 11.2	1.595	2.557	6.6	18.6
3 2	8 58.46	+25 54.3	2.005	2.888	10.7	19.5	3 2	8 55.82	+11 10.5	1.658	2.570	10.8	18.8
3 12	8 53.21	+26 4.7	2.090	2.890	13.7	19.7	3 12	8 50.03	+12 1.6	1.745	2.583	14.4	19.1
71003	1999 <i>XD</i> ₃₈		2 6.8 97°26	0°7/ 7.3	18		79499	1998 <i>FB</i> ₁₂₇		2 6.8 311°74	5°0/ 1.4	18	
1 2	9 42.64	+11 36.9	2.087	2.883	13.5	19.8	1 2	9 41.51	+27 5.4	2.311	3.132	11.5	18.5
1 12	9 38.12	+11 58.7	2.009	2.891	10.4	19.6	1 12	9 37.46	+28 49.1	2.235	3.129	8.9	18.3
1 22	9 31.55	+12 31.8	1.954	2.898	6.7	19.4	1 22	9 31.27	+30 35.4	2.186	3.127	6.3	18.2
2 1	9 23.53	+13 12.9	1.927	2.906	2.7	19.1	2 1	9 23.50	+32 16.3	2.167	3.125	5.1	18.1
2 11	9 14.95	+13 57.5	1.929	2.913	1.7	19.1	2 11	9 14.98	+33 43.8	2.177	3.122	6.2	18.1
2 21	9 6.75	+14 40.6	1.960	2.921	5.6	19.3	2 21	9 6.70	+34 52.4	2.215	3.120	8.7	18.3
3 2	8 59.84	+15 18.2	2.019	2.928	9.3	19.6	3 2	8 59.65	+35 39.2	2.280	3.118	11.4	18.5
3 12	8 54.90	+15 47.4	2.103	2.935	12.5	19.8	3 12	8 54.58	+36 4.6	2.366	3.116	13.8	18.6
457064	2008 <i>EX</i> ₄₄		2 6.8 201°85	5°7/ 3.0	16		381248	2007 <i>TF</i> ₉₄		2 6.8 60°56	7°2/ 13.7	18	
1 2	9 51.37	+30 51.9	2.059	2.870	13.1	21.5	1 2	9 40.18	-8 28.6	2.138	2.842	16.0	20.5
1 12	9 45.06	+31 35.9	1.982	2.868	10.3	21.3	1 12	9 36.15	-8 45.0	2.067	2.862	13.6	20.3
1 22	9 36.11	+32 16.5	1.929	2.865	7.5	21.2	1 22	9 30.24	-8 37.9	2.015	2.882	11.1	20.2
2 1	9 25.27	+32 46.2	1.904	2.861	5.7	21.0	2 1	9 23.04	-8 6.2	1.987	2.902	8.7	20.1
2 11	9 13.70	+32 58.7	1.908	2.858	6.5	21.1	2 11	9 15.37	-7 11.8	1.985	2.923	7.3	20.0
2 21	9 2.70	+32 50.9	1.939	2.854	9.2	21.2	2 21	9 8.10	-5 59.4	2.010	2.943	7.7	20.1
3 2	8 53.45	+32 23.2	1.997	2.849	12.2	21.4	3 2	9 2.03	-4 35.4	2.063	2.963	9.6	20.3
3 12	8 46.77	+31 38.5	2.077	2.845	14.9	21.6	3 12	8 57.79	-3 7.4	2.140	2.984	11.9	20.4
343128	2009 <i>EV</i> ₂₁		2 6.8 335°81	3°7/ 9.8	18		461084	2015 <i>AX</i> ₁₃₀		2 6.8 152°94	1°1/ 5.9	18	
1 2	9 37.78	+2 42.3	1.964	2.739	15.0	20.6	1 2	9 43.11	+16 44.1	2.202	3.008	12.6	21.0
1 12	9 34.70	+2 54.4	1.869	2.729	12.1	20.4	1 12	9 38.46	+17 21.5	2.121	3.011	9.5	20.8
1 22	9 29.55	+3 25.9	1.795	2.720	8.7	20.1	1 22	9 31.78	+18 6.7	2.064	3.014	6.0	20.5
2 1	9 22.84	+4 16.0	1.747	2.712	5.3	19.9	2 1	9 23.64	+18 55.2	2.036	3.016	2.3	20.3
2 11	9 15.42	+5 20.8	1.727	2.703	3.7	19.8	2 11	9 14.91	+19 41.6	2.037	3.019	2.4	20.3
2 21	9 8.23	+6 34.8	1.734	2.696	6.1	19.9	2 21	9 6.53	+20 21.3	2.068	3.021	6.1	20.6
3 2	9 2.22	+7 51.2	1.769	2.689	9.7	20.1	3 2	8 59.40	+20 51.1	2.127	3.023	9.6	20.8
3 12	8 58.15	+9 3.6	1.828	2.682	13.2	20.3	3 12	8 54.21	+21 9.4	2.210	3.025	12.6	21.0
190966	2001 <i>XT</i> ₁₅		2 6.8 19°89	1°6/ 7.7	18		464690	2001 <i>WR</i> ₅₆		2 6.8 54°41	6°2/ 2.6	18	
1 2	9 41.85	+10 28.4	1.105	1.940	20.4	19.4	1 2	9 47.12	+28 59.6	1.673	2.502	14.9	21.0
1 12	9 38.99	+10 34.4	1.045	1.946	15.9	19.1	1 12	9 42.24	+30 9.2	1.614	2.511	11.5	20.8
1 22	9 32.79	+11 0.6	1.003	1.954	10.4	18.8	1 22	9 34.49	+31 17.4	1.578	2.520	8.2	20.7
2 1	9 24.13	+11 43.3	0.983	1.962	4.5	18.5	2 1	9 24.70	+32 14.8	1.568	2.529	6.3	20.6
2 11	9 14.54	+12 34.7	0.987	1.972	2.7	18.4	2 11	9 14.19	+32 53.2	1.586	2.539	7.3	20.7
2 21	9 5.73	+13 26.3	1.016	1.983	8.3	18.8	2 21	9 4.40	+33 8.2	1.629	2.548	10.3	20.8
3 2	8 59.21	+14 10.3	1.067	1.995	13.7	19.1	3 2	8 56.58	+32 59.6	1.697	2.558	13.5	21.1
3 12	8 55.94	+14 41.7	1.138	2.008	18.3	19.4	3 12	8 51.57	+32 30.5	1.786	2.568	16.4	21.3
498896	2008 <i>YX</i> ₁₅₄		2 6.8 111°28	2°1/ 8.5	17		205891	2002 <i>GM</i> ₁₂		2 6.8 323°60	1°4/ 6.1	18	
1 2	9 43.29	+8 16.6	2.408	3.183	12.6	21.6	1 2	9 43.80	+16 35.7	1.352	2.184	17.5	20.4
1 12	9 38.31	+8 6.4	2.325	3.191	9.8	21.4	1 12	9 40.32	+17 2.2	1.270	2.173	13.4	20.1
1 22	9 31.53	+8 6.7	2.266	3.199	6.7	21.2	1 22	9 33.66	+17 41.2	1.208	2.162	8.6	19.8
2 1	9 23.50	+8 16.3	2.235	3.206	3.5	21.0	2 1	9 24.53	+18 26.9	1.171	2.152	3.2	19.4
2 11	9 15.00	+8 32.5	2.233	3.214	2.3	20.9	2 11	9 14.24	+19 11.2	1.160	2.143	3.2	19.4
2 21	9 6.83	+8 52.5	2.262	3.222	5.1	21.1	2 21	9 4.39	+19 46.8	1.174	2.133	8.7	19.7
3 2	8 59.79	+9 13.0	2.319	3.229	8.2	21.3	3 2	8 56.51	+20 8.6	1.212	2.125	13.8	19.9
3 12	8 54.47	+9 31.2	2.402	3.236	11.1	21.5	3 12	8 51.72	+20 14.5	1.271	2.117	18.3	20.2
236033	2005 <i>GQ</i> ₁₇₀		2 6.8 313°59	10°1/ 29.7	18		169018	2001 <i>DV</i> ₆₈		2 6.8 341°99	1°4/ 7.6	18	
1 2	9 50.07	+41 54.4	1.919	2.727	14.1	20.4	1 2	9 41.77	+10 57.2	1.335	2.158	18.2	20.1
1 12	9 44.88	+43 12.9	1.844	2.708	12.1	20.2	1 12	9 38.67	+11 2.1	1.255	2.150	14.2	19.9
1 22	9 36.43	+44 21.0	1.791	2.689	10.5	20.1	1 22	9 32.54	+11 24.1	1.195	2.143	9.4	19.6
2 1	9 25.50	+45 8.1	1.764	2.671	10.1	20.0	2 1	9 24.08	+12 0.4	1.158	2.137	4.1	19.2
2 11	9 13.52	+45 25.6	1.761	2.654	11.2	20.0	2 11	9 14.57	+12 44.8	1.147	2.131	2.4	19.1
2 21	9 2.13	+45 10.2	1.782	2.636	13.2	20.1	2 21	9 5.50	+13 30.3	1.161	2.126	7.8	19.4
3 2	8 52.86	+44 23.3	1.826	2.619	15.6	20.3	3 2	8 58.31	+14 10.1	1.199	2.122	13.0	19.7
3 12	8 46.74	+43 10.6	1.888	2.603	17.9	20.4	3 12	8 54.07	+14 39.5	1.258	2.119	17.5	19.9
127312	2002 <i>JC</i> ₉₁		2 6.8 218°16	2°0/ 8.7	18		317417	2002 <i>PE</i> ₁₉₅		2 6.8 204°07	0°2/ 7.0	18	
1 2	9 39.44	+6 58.4	2.813	3.582	11.1	19.9	1 2	9 42.62	+13 7.6	2.211	3.008	12.8	21.7
1 12	9 35.25	+7 1.8	2.718	3.580	8.7	19.7	1 12	9 38.08	+13 26.8	2.124	3.007	9.8	21.5
1 22	9 29.55	+7 15.7	2.648	3.578	6.0	19.6	1 22	9 31.55	+13 55.6	2.060	3.006	6.3	21.2
2 1	9 22.76	+7 38.7	2.606	3.575	3.2	19.4	2 1	9 23.57	+14 30.9	2.025	3.004	2.4	21.0
2 11	9 15.53	+8 8.6	2.593	3.573	2.2	19.3	2 11	9 14.98	+15 8.4	2.019	3.003	1.6	20.9
2 21	9 8.50	+8 42.1	2.611	3.571	4.5	19.4	2 21	9 6.71	+15 43.8	2.042	3.001	5.6	21.2
3 2	9 2.34	+9 16.2	2.658	3.569	7.3	19.6	3 2	8 59.63	+16 13.4	2.094	3.000	9.2	21.4
3 12	8 57.58	+9 47.7	2.732	3.566	9.9	19.8	3 12	8 54.44	+16 35.0	2.170	2.998	12.4	21.6
425324	2010 <i>AV</i> ₅₁		2 6.8 291°69	4°7/ 9.7	17		382726	2002 <i>YG</i> ₂₆		2 6.8 40°08	11°7/ 13.5	18	
1 2	9 43.36	+2 51.6	2.062	2.823									

EPHEMERIDES

2 6.8

2 6.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
265673	2005 <i>UQ</i> ₅₃		2 6.8 92°19	4.5/ 3.5	18		324646	2007 <i>CU</i> ₅		2 6.8 109°73	5.2/ 2.3	18	
1 2	9 46.36	+25 25.9	1.865	2.687	13.8	20.3	1 2	9 46.44	+26 41.2	1.999	2.818	13.2	20.3
1 12	9 41.33	+26 27.9	1.800	2.696	10.5	20.1	1 12	9 41.30	+28 16.6	1.940	2.834	10.1	20.2
1 22	9 33.76	+27 31.5	1.760	2.706	7.1	19.9	1 22	9 33.72	+29 53.1	1.908	2.849	7.0	20.0
2 1	9 24.41	+28 29.2	1.747	2.716	4.7	19.8	2 1	9 24.41	+31 21.8	1.903	2.865	5.3	19.9
2 11	9 14.41	+29 13.5	1.762	2.725	5.6	19.9	2 11	9 14.44	+32 34.5	1.928	2.880	6.3	20.0
2 21	9 4.98	+29 39.8	1.805	2.735	8.7	20.1	2 21	9 4.99	+33 26.0	1.981	2.894	9.1	20.2
3 2	8 57.25	+29 46.7	1.874	2.744	12.0	20.3	3 2	8 57.14	+33 54.6	2.059	2.908	12.0	20.4
3 12	8 51.99	+29 35.6	1.964	2.753	14.9	20.5	3 12	8 51.66	+34 2.0	2.160	2.922	14.6	20.6
298843	2004 <i>RX</i> ₁₈₉		2 6.8 95°34	4.0/ 9.2	18		172561	2003 <i>UW</i> ₁₃₄		2 6.8 67°54	3.5/ 8.9	18	
1 2	9 46.47	+ 4 48.6	1.563	2.347	17.8	20.6	1 2	9 45.76	+ 6 24.4	1.545	2.337	17.6	19.9
1 12	9 41.58	+ 4 36.5	1.493	2.360	14.2	20.3	1 12	9 41.04	+ 6 10.4	1.477	2.350	13.9	19.7
1 22	9 34.01	+ 4 44.0	1.443	2.372	10.0	20.1	1 22	9 33.67	+ 6 14.4	1.429	2.363	9.7	19.5
2 1	9 24.53	+ 5 9.8	1.417	2.384	5.8	19.9	2 1	9 24.41	+ 6 34.9	1.406	2.377	5.3	19.3
2 11	9 14.32	+ 5 50.0	1.419	2.397	4.1	19.8	2 11	9 14.46	+ 7 7.9	1.410	2.390	3.6	19.2
2 21	9 4.69	+ 6 38.6	1.448	2.408	7.2	20.0	2 21	9 5.11	+ 7 47.8	1.442	2.404	7.0	19.4
3 2	8 56.84	+ 7 29.1	1.503	2.420	11.3	20.3	3 2	8 57.55	+ 8 28.7	1.499	2.417	11.2	19.7
3 12	8 51.59	+ 8 15.6	1.581	2.431	15.1	20.6	3 12	8 52.60	+ 9 5.4	1.579	2.431	15.0	20.0
180843	2005 <i>GR</i> ₁₀₇		2 6.8 217°49	0.8/ 6.4	18		512284	2016 <i>GP</i> ₁₂₆		2 6.8 249°87	5.8/ 11.6	17	
1 2	9 47.55	+14 58.1	1.326	2.150	18.3	21.6	1 2	9 41.27	- 3 46.4	2.336	3.059	14.3	22.1
1 12	9 43.12	+15 27.1	1.251	2.149	14.0	21.3	1 12	9 37.07	- 4 2.0	2.229	3.046	12.1	21.9
1 22	9 35.40	+16 10.6	1.196	2.148	8.9	21.1	1 22	9 30.96	- 3 58.7	2.143	3.032	9.5	21.7
2 1	9 25.16	+17 2.4	1.165	2.146	3.3	20.7	2 1	9 23.40	- 3 35.4	2.082	3.018	7.1	21.5
2 11	9 13.83	+17 54.2	1.162	2.145	2.9	20.7	2 11	9 15.13	- 2 53.3	2.049	3.003	5.8	21.4
2 21	9 3.06	+18 38.2	1.184	2.144	8.6	21.0	2 21	9 6.98	- 1 55.6	2.044	2.988	6.8	21.4
3 2	8 54.44	+19 8.8	1.231	2.142	13.8	21.3	3 2	8 59.83	- 0 47.5	2.068	2.973	9.3	21.6
3 12	8 49.02	+19 23.8	1.298	2.140	18.2	21.6	3 12	8 54.41	+ 0 24.7	2.116	2.957	12.1	21.7
112243	2002 <i>LZ</i> ₄		2 6.8 168°57	0.4/ 7.2	18		285612	2000 <i>QT</i> ₂₁₆		2 6.8 94°08	1.1/ 6.1	18	
1 2	9 45.83	+12 3.1	2.180	2.968	13.3	20.6	1 2	9 48.33	+15 35.5	1.618	2.429	16.1	20.9
1 12	9 40.51	+12 29.3	2.095	2.973	10.2	20.4	1 12	9 42.87	+16 17.1	1.559	2.451	12.2	20.7
1 22	9 33.08	+13 6.4	2.034	2.977	6.6	20.2	1 22	9 34.75	+17 9.4	1.522	2.472	7.6	20.5
2 1	9 24.15	+13 50.9	2.001	2.980	2.6	20.0	2 1	9 24.78	+18 6.1	1.512	2.492	2.8	20.3
2 11	9 14.59	+14 38.1	1.999	2.983	1.7	19.9	2 11	9 14.22	+18 59.7	1.530	2.512	2.7	20.3
2 21	9 5.37	+15 23.1	2.027	2.985	5.7	20.2	2 21	9 4.38	+19 44.2	1.576	2.532	7.3	20.6
3 2	8 57.44	+16 1.9	2.083	2.986	9.4	20.4	3 2	8 56.41	+20 15.7	1.650	2.551	11.5	20.9
3 12	8 51.49	+16 31.8	2.164	2.987	12.6	20.6	3 12	8 51.09	+20 33.1	1.745	2.570	15.0	21.2
272908	2006 <i>BO</i> ₁₆₀		2 6.8 45°15	2.2/ 5.3	18		152760	1999 <i>KH</i>		2 6.8 180°11	0.4/ 7.2	18	
1 2	9 43.20	+17 59.4	1.606	2.432	15.5	20.2	1 2	9 43.80	+12 2.0	2.500	3.284	11.9	21.6
1 12	9 39.09	+18 53.7	1.547	2.448	11.7	20.0	1 12	9 38.75	+12 27.2	2.410	3.286	9.1	21.4
1 22	9 32.39	+19 57.1	1.512	2.465	7.3	19.8	1 22	9 31.87	+13 2.0	2.345	3.287	5.9	21.2
2 1	9 23.90	+21 2.4	1.502	2.482	3.1	19.6	2 1	9 23.69	+13 43.3	2.308	3.287	2.3	21.0
2 11	9 14.80	+22 1.6	1.520	2.499	3.6	19.6	2 11	9 14.95	+14 27.1	2.302	3.287	1.5	20.9
2 21	9 6.34	+22 48.5	1.566	2.517	7.8	19.9	2 21	9 6.49	+15 9.4	2.327	3.286	5.1	21.1
3 2	8 59.65	+23 19.5	1.637	2.536	11.8	20.2	3 2	8 59.09	+15 46.7	2.382	3.284	8.4	21.3
3 12	8 55.48	+23 33.8	1.730	2.554	15.2	20.5	3 12	8 53.39	+16 16.4	2.461	3.282	11.3	21.5
462003	2006 <i>WG</i> ₁₆₃		2 6.8 151°00	1.8/ 8.1	18		165102	2000 <i>HN</i> ₁₇		2 6.8 241°95	0.7/ 6.2	18	
1 2	9 43.96	+ 8 47.9	1.886	2.676	15.0	21.5	1 2	9 41.83	+15 41.1	2.301	3.105	12.2	20.2
1 12	9 39.38	+ 9 1.6	1.803	2.679	11.7	21.3	1 12	9 37.47	+16 14.1	2.212	3.100	9.2	20.0
1 22	9 32.51	+ 9 30.0	1.743	2.682	7.8	21.1	1 22	9 31.17	+16 55.4	2.148	3.096	5.8	19.8
2 1	9 23.97	+10 10.4	1.709	2.684	3.7	20.9	2 1	9 23.45	+17 41.0	2.111	3.092	2.2	19.5
2 11	9 14.72	+10 58.2	1.703	2.687	2.2	20.8	2 11	9 15.12	+18 26.2	2.104	3.087	2.0	19.5
2 21	9 5.85	+11 47.9	1.727	2.689	6.1	21.0	2 21	9 7.06	+19 6.4	2.127	3.083	5.7	19.7
3 2	8 58.40	+12 34.4	1.778	2.691	10.1	21.3	3 2	9 0.14	+19 38.2	2.178	3.078	9.2	19.9
3 12	8 53.13	+13 13.5	1.853	2.693	13.7	21.5	3 12	8 55.05	+19 59.6	2.254	3.073	12.3	20.1
396584	2000 <i>SZ</i> ₁₃		2 6.8 120°55	4.6/ 9.9	18		490176	2008 <i>UT</i> ₂₆₀		2 6.8 132°56	1.0/ 6.1	18	
1 2	9 47.91	+ 1 57.3	1.893	2.648	16.2	21.5	1 2	9 48.73	+15 23.4	1.812	2.615	15.0	23.0
1 12	9 42.18	+ 1 40.0	1.820	2.666	13.1	21.3	1 12	9 43.02	+16 7.5	1.742	2.630	11.4	22.8
1 22	9 34.17	+ 1 41.0	1.769	2.684	9.5	21.1	1 22	9 34.81	+17 2.0	1.696	2.644	7.1	22.6
2 1	9 24.55	+ 1 59.9	1.744	2.701	6.1	20.9	2 1	9 24.82	+18 1.1	1.678	2.658	2.6	22.3
2 11	9 14.34	+ 2 33.9	1.747	2.718	4.6	20.9	2 11	9 14.18	+18 57.8	1.689	2.671	2.5	22.3
2 21	9 4.65	+ 3 18.3	1.779	2.733	6.7	21.0	2 21	9 4.09	+19 46.2	1.729	2.683	6.9	22.6
3 2	8 56.49	+ 4 7.6	1.839	2.748	10.0	21.3	3 2	8 55.69	+20 22.4	1.797	2.695	10.9	22.9
3 12	8 50.57	+ 4 56.1	1.923	2.763	13.2	21.5	3 12	8 49.74	+20 44.8	1.888	2.705	14.4	23.2
31319	Vespucci		2 6.8 319°27	7.1/ 13.3	18		489607	2007 <i>TY</i> ₁₉₇		2 6.8 74°03	2.4/ 5.1	18	
1 2	9 38.81	- 8 9.7	2.364	3.066	14.7	18.1	1 2	9 44.79	+21 27.5	2.195	3.006	12.4	21.3
1 12	9 35.13	- 8 35.3	2.268	3.061	12.7	18.0	1 12	9 39.64	+21 58.0	2.129	3.022	9.3	21.2
1 22	9 29.66	- 8 40.3	2.192	3.057	10.4	17.8	1 22	9 32.46	+22 31.7	2.088	3.037	5.9	21.0
2 1	9 22.88	- 8 23.0	2.140	3.053	8.3	17.7	2 1	9 23.89	+23 3.6	2.075	3.052	2.8	20.8
2 11	9 15.50	- 7 43.7	2.114	3.049	7.2	17.6	2 11	9 14.88	+23 29.0	2.092	3.068	3.3	20.9
2 21	9 8.32	- 6 45.8	2.116	3.045	7.6	17.6	2 21	9 6.37	+23 44.4	2.138	3.083	6.5	21.1
3 2	9 2.15	- 5 34.2	2.144	3.041	9.5	17.7	3 2	8 59.24	+23 48.3	2.211	3.098	9.7	21.3
3 12	8 57.62	- 4 15.6	2.197	3.038	11.8	17.8	3 12	8 54.13	+23 40.7	2.309	3.114	12.5	21.5
452212	2015 <i>RN</i> ₂₁₄		2 6.8 143°87	0.0/ 6.6	18		375301	2008 <i>PS</i> ₁₆		2 6.8 158°70	2.7/ 9.5	17	
1 2	9 50.11	+14 17.7	1.461	2.273	17.5	21.5	1 2	9 42.02	+ 3 44.3	2.695			

EPHEMERIDES

2 6.8

2 6.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
319770	2006 <i>UH</i> ₂₂₉		2 6.8 100°42	0°0/ 6.9 18			241631	1999 <i>VJ</i> ₁₈₂		2 6.8 185°09	0°8/ 7.4 18		
1 2	9 45.74	+12 31.5	1.920	2.717	14.5	21.3	1 2	9 46.03	+11 11.0	2.181	2.966	13.4	21.4
1 12	9 40.55	+13 7.8	1.854	2.738	11.0	21.1	1 12	9 40.72	+11 32.5	2.091	2.967	10.3	21.2
1 22	9 33.13	+13 55.8	1.812	2.758	7.0	20.9	1 22	9 33.29	+12 5.4	2.025	2.966	6.7	21.0
2 1	9 24.17	+14 50.8	1.798	2.777	2.6	20.7	2 1	9 24.30	+12 46.8	1.987	2.965	2.8	20.7
2 11	9 14.69	+15 46.9	1.812	2.797	1.8	20.6	2 11	9 14.64	+13 31.9	1.979	2.963	1.7	20.7
2 21	9 5.74	+16 38.6	1.857	2.815	6.1	21.0	2 21	9 5.28	+14 16.2	2.002	2.961	5.6	20.9
3 2	8 58.31	+17 21.5	1.929	2.834	9.9	21.2	3 2	8 57.18	+14 55.4	2.053	2.958	9.4	21.1
3 12	8 53.07	+17 53.3	2.025	2.851	13.2	21.5	3 12	8 51.07	+15 26.7	2.129	2.954	12.7	21.3
303274	2004 <i>RM</i> ₁₈₀		2 6.8 185°67	3°9/ 9.6 18			410749	2009 <i>DX</i> ₂₃		2 6.8 293°56	8°3/ 2.1 18		
1 2	9 45.99	+ 2 48.6	1.987	2.745	15.4	22.2	1 2	9 52.70	+33 21.3	1.561	2.385	16.0	20.4
1 12	9 40.87	+ 2 49.9	1.895	2.746	12.4	22.0	1 12	9 47.39	+34 20.6	1.471	2.360	12.9	20.2
1 22	9 33.47	+ 3 9.4	1.825	2.745	9.0	21.8	1 22	9 38.40	+35 16.0	1.402	2.335	9.9	19.9
2 1	9 24.37	+ 3 46.3	1.782	2.744	5.5	21.6	2 1	9 26.45	+35 56.3	1.359	2.310	8.3	19.8
2 11	9 14.50	+ 4 37.2	1.767	2.742	3.9	21.5	2 11	9 13.05	+36 10.7	1.341	2.285	9.5	19.8
2 21	9 4.93	+ 5 37.1	1.782	2.740	6.4	21.6	2 21	9 0.11	+35 53.7	1.349	2.260	12.7	19.9
3 2	8 56.69	+ 6 39.9	1.825	2.736	10.0	21.8	3 2	8 49.44	+35 5.7	1.380	2.235	16.4	20.0
3 12	8 50.58	+ 7 39.9	1.892	2.732	13.4	22.0	3 12	8 42.32	+33 52.5	1.430	2.210	19.9	20.2
419710	2010 <i>UN</i> ₇₉		2 6.8 95°24	1°5/ 5.9 18			126347	2002 <i>AX</i> ₁₆₃		2 6.8 313°62	1°2/ 7.6 18		
1 2	9 47.33	+18 9.5	1.791	2.604	14.7	21.7	1 2	9 40.91	+ 9 5.0	1.391	2.208	18.0	19.1
1 12	9 42.01	+18 31.4	1.721	2.614	11.2	21.5	1 12	9 38.04	+ 9 41.7	1.303	2.195	14.1	18.8
1 22	9 34.19	+19 0.1	1.673	2.623	7.0	21.2	1 22	9 32.22	+10 40.8	1.235	2.182	9.3	18.5
2 1	9 24.61	+19 30.6	1.653	2.633	2.7	21.0	2 1	9 24.07	+11 58.5	1.191	2.170	4.0	18.1
2 11	9 14.40	+19 57.1	1.661	2.643	2.8	21.0	2 11	9 14.75	+13 26.9	1.174	2.158	2.3	18.0
2 21	9 4.77	+20 15.4	1.698	2.652	7.0	21.3	2 21	9 5.71	+14 56.1	1.182	2.147	7.8	18.3
3 2	8 56.82	+20 22.8	1.762	2.662	11.0	21.5	3 2	8 58.41	+16 16.6	1.216	2.136	13.1	18.5
3 12	8 51.33	+20 18.9	1.849	2.671	14.4	21.8	3 12	8 53.96	+17 21.9	1.270	2.126	17.7	18.8
409909	2006 <i>TN</i> ₄₁		2 6.8 83°91	2°2/ 8.4 18			457728	2009 <i>FS</i> ₆₉		2 6.8 328°36	2°1/ 5.7 15		
1 2	9 46.84	+ 7 26.6	1.811	2.594	15.8	21.9	1 2	9 41.37	+17 10.6	1.280	2.121	17.8	21.0
1 12	9 41.36	+ 7 40.2	1.752	2.622	12.3	21.7	1 12	9 38.72	+17 50.0	1.196	2.105	13.7	20.7
1 22	9 33.62	+ 8 9.4	1.715	2.650	8.2	21.6	1 22	9 32.82	+18 43.4	1.133	2.089	8.7	20.4
2 1	9 24.35	+ 8 51.2	1.704	2.678	4.1	21.4	2 1	9 24.33	+19 44.3	1.093	2.074	3.5	20.0
2 11	9 14.62	+ 9 40.4	1.723	2.705	2.5	21.3	2 11	9 14.57	+20 43.0	1.078	2.060	3.8	20.0
2 21	9 5.54	+10 31.5	1.771	2.732	6.0	21.6	2 21	9 5.17	+21 30.7	1.088	2.047	9.3	20.3
3 2	8 58.07	+11 19.2	1.846	2.758	9.8	21.9	3 2	8 57.77	+22 1.3	1.122	2.035	14.6	20.5
3 12	8 52.87	+11 59.7	1.945	2.784	13.2	22.1	3 12	8 53.55	+22 12.4	1.174	2.024	19.2	20.8
293738	2007 <i>RB</i> ₃₇		2 6.8 112°57	0°7/ 6.3 18			173008	2006 <i>PL</i> ₉		2 6.8 154°54	0°6/ 7.4 18		
1 2	9 47.46	+14 31.8	1.824	2.627	14.9	21.3	1 2	9 41.45	+11 41.1	2.761	3.544	10.9	21.8
1 12	9 42.00	+15 15.0	1.759	2.646	11.3	21.1	1 12	9 36.80	+12 3.0	2.675	3.550	8.4	21.7
1 22	9 34.13	+16 8.9	1.717	2.664	7.1	20.9	1 22	9 30.56	+12 33.4	2.615	3.556	5.4	21.5
2 1	9 24.58	+17 8.2	1.702	2.682	2.6	20.7	2 1	9 23.23	+13 9.9	2.583	3.561	2.2	21.3
2 11	9 14.44	+18 6.0	1.717	2.700	2.3	20.7	2 11	9 15.45	+13 48.9	2.582	3.566	1.3	21.2
2 21	9 4.88	+18 56.4	1.761	2.716	6.6	21.0	2 21	9 7.94	+14 27.1	2.611	3.570	4.5	21.4
3 2	8 56.96	+19 35.5	1.832	2.732	10.6	21.3	3 2	9 1.36	+15 1.3	2.671	3.575	7.5	21.6
3 12	8 51.41	+20 1.4	1.927	2.748	14.0	21.5	3 12	8 56.28	+15 29.2	2.756	3.578	10.2	21.8
284471	2007 <i>HP</i> ₂₁		2 6.8 177°51	1°5/ 8.2 17			460711	2014 <i>UO</i> ₂₂₃		2 6.8 88°45	5°3/ 2.6 18		
1 2	9 42.62	+ 8 36.1	2.402	3.179	12.5	21.1	1 2	9 48.79	+27 2.2	1.908	2.726	13.7	21.5
1 12	9 37.93	+ 8 52.7	2.311	3.180	9.8	20.9	1 12	9 43.04	+28 32.5	1.861	2.754	10.5	21.3
1 22	9 31.40	+ 9 21.2	2.245	3.181	6.5	20.7	1 22	9 34.79	+30 2.4	1.840	2.781	7.3	21.2
2 1	9 23.55	+ 9 59.4	2.207	3.182	3.1	20.4	2 1	9 24.84	+31 22.7	1.847	2.809	5.4	21.1
2 11	9 15.15	+10 43.6	2.199	3.182	1.9	20.4	2 11	9 14.35	+32 25.4	1.883	2.835	6.4	21.2
2 21	9 7.01	+11 29.7	2.222	3.182	5.1	20.6	2 21	9 4.57	+33 6.3	1.947	2.861	9.1	21.4
3 2	8 59.94	+12 13.5	2.273	3.182	8.4	20.8	3 2	8 56.56	+33 24.5	2.036	2.887	12.0	21.7
3 12	8 54.60	+12 51.7	2.349	3.181	11.4	21.0	3 12	8 51.06	+33 22.4	2.148	2.912	14.6	21.9
30764	1981 <i>EK</i> ₄₇		2 6.8 337°71	0°8/ 7.6 18			428462	2007 <i>UA</i> ₂₆		2 6.8 119°68	3°6/ 10.0 17		
1 2	9 38.06	+11 32.2	2.730	3.520	10.8	19.2	1 2	9 40.67	+ 2 20.0	2.441	3.194	13.0	21.1
1 12	9 34.32	+11 44.6	2.636	3.514	8.3	19.0	1 12	9 36.39	+ 2 18.0	2.354	3.200	10.5	21.0
1 22	9 29.04	+12 5.5	2.566	3.508	5.4	18.8	1 22	9 30.40	+ 2 31.0	2.289	3.205	7.6	20.8
2 1	9 22.65	+12 32.8	2.524	3.502	2.3	18.6	2 1	9 23.19	+ 2 58.0	2.252	3.210	4.8	20.6
2 11	9 15.79	+13 3.6	2.513	3.497	1.4	18.5	2 11	9 15.48	+ 3 36.6	2.243	3.216	3.6	20.5
2 21	9 9.14	+13 34.6	2.531	3.492	4.5	18.7	2 21	9 8.05	+ 4 23.2	2.264	3.221	5.3	20.7
3 2	9 3.38	+14 2.8	2.578	3.487	7.6	18.9	3 2	9 1.63	+ 5 13.2	2.314	3.226	8.2	20.8
3 12	8 59.05	+14 25.8	2.650	3.482	10.3	19.1	3 12	8 56.84	+ 6 2.3	2.389	3.230	10.9	21.0
153906	2001 <i>XM</i> ₂₃₄		2 6.8 117°21	0°5/ 7.2 18			201369	2002 <i>TA</i> ₂₇₈		2 6.8 83°62	3°1/ 9.1 18 R		
1 2	9 45.96	+12 57.1	1.999	2.795	14.0	20.7	1 2	9 43.08	+ 5 40.4	2.227	2.996	13.6	19.8
1 12	9 40.71	+13 5.4	1.923	2.804	10.8	20.5	1 12	9 38.33	+ 5 24.7	2.145	3.005	10.8	19.6
1 22	9 33.26	+13 23.5	1.870	2.814	6.9	20.3	1 22	9 31.67	+ 5 22.1	2.087	3.013	7.6	19.4
2 1	9 24.26	+13 48.4	1.844	2.823	2.7	20.1	2 1	9 23.67	+ 5 31.7	2.056	3.022	4.5	19.3
2 11	9 14.67	+14 15.6	1.848	2.832	1.7	20.0	2 11	9 15.15	+ 5 51.2	2.053	3.030	3.2	19.2
2 21	9 5.55	+14 41.1	1.881	2.841	5.9	20.3	2 21	9 6.99	+ 6 17.1	2.080	3.038	5.5	19.4
3 2	8 57.86	+15 1.5	1.942	2.849	9.7	20.6	3 2	9 0.02	+ 6 45.6	2.135	3.047	8.7	19.6
3 12	8 52.32	+15 14.6	2.027	2.858	13.0	20.8	3 12	8 54.88	+ 7 13.1	2.215	3.055	11.7	19.8
304902	2007 <i>RN</i> ₂₄₅		2 6.8 24°57	5°0/ 3.9 18			257846	2000 <i>LK</i> ₂₂		2 6.8 289°43	5°6/ 2.2 18		
1 2	9 46.66	+24 20.5	1.399	2.236	16.8	20.3	1 2	9 43.67	+25 6				

EPHEMERIDES

2 6.8

2 6.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
419802	2010 <i>WT</i> ₄₈		2 6.8 233°99	3°8/ 3.8 17			45224	1999 <i>XO</i> ₂₀₉		2 6.9 2°26	1°3/ 7.3 18		
1 2	9 46.24	+23 39.6	2.070	2.885	12.9	21.7	1 2	9 46.22	+16 1.4	1.267	2.099	18.5	16.8
1 12	9 41.26	+24 40.5	1.981	2.875	9.9	21.5	1 12	9 42.08	+15 0.1	1.195	2.096	14.3	16.5
1 22	9 33.85	+25 45.8	1.917	2.863	6.6	21.3	1 22	9 34.69	+14 4.6	1.144	2.095	9.4	16.2
2 1	9 24.59	+26 48.7	1.880	2.852	4.0	21.1	2 1	9 24.94	+13 13.7	1.117	2.097	3.9	15.9
2 11	9 14.47	+27 41.9	1.873	2.840	4.9	21.1	2 11	9 14.31	+12 26.2	1.115	2.100	2.6	15.8
2 21	9 4.63	+28 20.0	1.895	2.828	8.1	21.3	2 21	9 4.44	+11 41.0	1.139	2.104	7.9	16.2
3 2	8 56.20	+28 40.2	1.943	2.815	11.6	21.5	3 2	8 56.77	+10 57.3	1.187	2.111	13.0	16.5
3 12	8 50.04	+28 42.8	2.014	2.801	14.7	21.7	3 12	8 52.26	+10 14.1	1.257	2.120	17.4	16.7
30135	2000 <i>FU</i> ₄₉		2 6.8 186°02	5°7/ 11.5 18			375641	2008 <i>YL</i> ₆₆		2 6.9 25°68	3°8/ 7.4 18		
1 2	9 43.60	- 3 19.1	2.341	3.062	14.3	19.2	1 2	10 1.65	+15 37.2	0.942	1.770	23.7	19.4
1 12	9 38.75	- 3 38.3	2.246	3.062	12.0	19.0	1 12	9 54.76	+13 37.7	0.878	1.775	18.6	19.1
1 22	9 31.99	- 3 39.3	2.173	3.062	9.4	18.8	1 22	9 43.22	+11 40.2	0.833	1.780	12.5	18.8
2 1	9 23.82	- 3 21.1	2.124	3.061	6.9	18.7	2 1	9 28.22	+ 9 47.4	0.810	1.787	6.1	18.5
2 11	9 15.03	- 2 45.1	2.104	3.059	5.7	18.6	2 11	9 12.04	+ 8 3.2	0.812	1.794	4.7	18.4
2 21	9 6.47	- 1 54.7	2.114	3.056	6.7	18.7	2 21	8 57.21	+ 6 32.0	0.839	1.802	10.6	18.8
3 2	8 58.99	- 0 54.8	2.151	3.054	9.2	18.8	3 2	8 45.86	+ 5 15.7	0.889	1.810	16.6	19.1
3 12	8 53.27	+ 0 8.6	2.214	3.050	11.8	19.0	3 12	8 39.11	+ 4 12.6	0.958	1.819	21.6	19.5
81610	2000 <i>HT</i> ₆₅		2 6.8 215°30	1°6/ 7.9 18			417228	2005 <i>YA</i> ₅₀		2 6.9 50°65	1°9/ 8.1 18		
1 2	9 43.56	+ 9 11.1	1.920	2.711	14.7	19.7	1 2	9 43.02	+ 9 0.8	1.796	2.592	15.4	21.5
1 12	9 39.13	+ 9 26.7	1.832	2.708	11.5	19.5	1 12	9 38.77	+ 9 8.7	1.719	2.598	12.0	21.3
1 22	9 32.43	+ 9 56.6	1.766	2.706	7.7	19.2	1 22	9 32.19	+ 9 31.2	1.664	2.604	8.0	21.0
2 1	9 24.03	+10 38.3	1.727	2.703	3.5	19.0	2 1	9 23.94	+10 5.8	1.635	2.610	3.8	20.8
2 11	9 14.88	+11 27.1	1.716	2.700	2.1	18.9	2 11	9 15.02	+10 47.9	1.633	2.617	2.3	20.7
2 21	9 6.05	+12 17.7	1.734	2.696	6.1	19.1	2 21	9 6.54	+11 32.2	1.661	2.623	6.2	21.0
3 2	8 58.57	+13 4.7	1.780	2.693	10.1	19.4	3 2	8 59.52	+12 13.6	1.715	2.630	10.2	21.2
3 12	8 53.25	+13 44.2	1.850	2.689	13.7	19.6	3 12	8 54.76	+12 48.0	1.792	2.637	13.8	21.5
271078	2003 <i>NU</i> ₄		2 6.8 241°53	2°6/ 9.3 17			371181	2005 <i>YQ</i> ₈₈		2 6.9 216°37	0°3/ 6.6 18		
1 2	9 41.83	+ 3 39.3	2.495	3.251	12.7	21.6	1 2	9 42.97	+14 4.1	2.043	2.847	13.5	21.3
1 12	9 37.43	+ 4 8.4	2.382	3.234	10.2	21.4	1 12	9 38.59	+14 36.5	1.958	2.845	10.3	21.1
1 22	9 31.19	+ 4 53.8	2.293	3.217	7.2	21.2	1 22	9 32.03	+15 19.4	1.896	2.843	6.6	20.9
2 1	9 23.55	+ 5 54.0	2.232	3.199	4.1	20.9	2 1	9 23.89	+16 8.8	1.861	2.841	2.4	20.6
2 11	9 15.20	+ 7 5.5	2.201	3.180	2.7	20.8	2 11	9 15.06	+16 59.1	1.855	2.839	1.9	20.5
2 21	9 6.94	+ 8 23.3	2.201	3.161	5.2	20.9	2 21	9 6.55	+17 45.3	1.879	2.837	6.1	20.8
3 2	8 59.60	+ 9 41.8	2.231	3.141	8.5	21.1	3 2	8 59.33	+18 23.1	1.930	2.835	9.9	21.0
3 12	8 53.88	+10 55.9	2.287	3.121	11.6	21.3	3 12	8 54.17	+18 50.0	2.006	2.832	13.3	21.2
372681	2009 <i>WD</i> ₁₄₅		2 6.8 72°61	2°2/ 5.3 18			498118	2007 <i>SH</i> ₈		2 6.9 154°98	3°4/ 10.1 17		
1 2	9 45.48	+19 45.5	1.857	2.674	14.1	21.5	1 2	9 40.26	+ 1 41.4	2.525	3.275	12.7	21.9
1 12	9 40.58	+20 20.4	1.789	2.684	10.7	21.3	1 12	9 36.07	+ 1 54.6	2.435	3.279	10.3	21.8
1 22	9 33.29	+21 1.2	1.744	2.694	6.7	21.1	1 22	9 30.20	+ 2 23.4	2.368	3.282	7.5	21.6
2 1	9 24.31	+21 42.0	1.726	2.705	3.0	20.8	2 1	9 23.15	+ 3 6.8	2.327	3.286	4.7	21.4
2 11	9 14.73	+22 16.9	1.737	2.715	3.4	20.9	2 11	9 15.59	+ 4 1.8	2.316	3.289	3.4	21.3
2 21	9 5.70	+22 41.2	1.776	2.725	7.2	21.2	2 21	9 8.28	+ 5 4.2	2.335	3.292	5.1	21.5
3 2	8 58.27	+22 52.6	1.842	2.736	10.9	21.4	3 2	9 1.94	+ 6 9.0	2.383	3.295	7.9	21.6
3 12	8 53.17	+22 50.7	1.930	2.746	14.1	21.6	3 12	8 57.15	+ 7 11.7	2.457	3.297	10.7	21.8
124277	2001 <i>QX</i> ₂₇		2 6.9 62°59	4°9/ 4.4 18			95433	2002 <i>CH</i> ₂₄₂		2 6.9 36°34	0°7/ 6.6 18		
1 2	9 50.36	+24 6.7	1.304	2.140	17.9	19.0	1 2	9 47.15	+15 59.0	1.082	1.922	20.4	19.6
1 12	9 45.15	+24 58.2	1.252	2.156	13.6	18.7	1 12	9 42.93	+16 5.3	1.035	1.941	15.5	19.4
1 22	9 36.55	+25 52.8	1.221	2.172	8.9	18.5	1 22	9 35.21	+16 24.3	1.007	1.962	9.7	19.1
2 1	9 25.58	+26 40.5	1.215	2.189	5.2	18.4	2 1	9 25.09	+16 49.5	1.002	1.984	3.6	18.8
2 11	9 13.89	+27 12.2	1.235	2.206	6.1	18.5	2 11	9 14.31	+17 13.5	1.022	2.006	2.8	18.9
2 21	9 3.23	+27 22.7	1.280	2.223	10.2	18.7	2 21	9 4.67	+17 30.0	1.066	2.030	8.7	19.3
3 2	8 55.04	+27 11.7	1.349	2.240	14.4	19.0	3 2	8 57.61	+17 35.4	1.134	2.054	13.9	19.6
3 12	8 50.18	+26 42.2	1.439	2.257	18.0	19.3	3 12	8 53.96	+17 28.8	1.221	2.079	18.1	20.0
93927	2000 <i>WW</i> ₁₆₂		2 6.9 26°26	2°5/ 8.8 18			91757	1999 <i>TN</i> ₁₉₀		2 6.9 82°72	2°0/ 8.2 18		
1 2	9 40.00	+ 5 43.3	1.664	2.459	16.5	18.4	1 2	9 47.51	+ 9 39.3	2.054	2.834	14.2	19.7
1 12	9 36.65	+ 6 11.3	1.588	2.464	13.0	18.2	1 12	9 41.67	+ 9 24.5	1.988	2.858	11.0	19.6
1 22	9 30.93	+ 6 59.8	1.534	2.471	8.9	18.0	1 22	9 33.76	+ 9 20.6	1.945	2.880	7.4	19.4
2 1	9 23.48	+ 8 5.6	1.504	2.477	4.6	17.8	2 1	9 24.46	+ 9 26.0	1.929	2.903	3.6	19.2
2 11	9 15.32	+ 9 22.9	1.502	2.485	2.8	17.7	2 11	9 14.73	+ 9 37.5	1.944	2.926	2.3	19.1
2 21	9 7.58	+10 43.8	1.528	2.492	6.4	17.9	2 21	9 5.56	+ 9 52.0	1.988	2.948	5.6	19.4
3 2	9 1.34	+12 0.9	1.580	2.501	10.6	18.2	3 2	8 57.85	+10 6.1	2.060	2.970	9.1	19.6
3 12	8 57.38	+13 8.2	1.656	2.509	14.3	18.4	3 12	8 52.22	+10 17.3	2.157	2.991	12.2	19.9
200706	2001 <i>UN</i> ₁₃₇		2 6.9 113°68	2°0/ 5.6 18			404236	2013 <i>EH</i> ₆		2 6.9 264°14	0°0/ 6.7 17		
1 2	9 49.88	+17 48.9	1.689	2.500	15.6	22.0	1 2	9 46.48	+14 9.9	1.648	2.457	15.9	21.8
1 12	9 44.05	+18 36.3	1.627	2.519	11.7	21.8	1 12	9 41.90	+14 26.0	1.554	2.444	12.3	21.5
1 22	9 35.54	+19 32.0	1.588	2.538	7.4	21.6	1 22	9 34.51	+14 54.1	1.483	2.431	7.9	21.2
2 1	9 25.17	+20 29.4	1.576	2.556	3.0	21.3	2 1	9 24.93	+15 30.4	1.437	2.418	3.0	20.9
2 11	9 14.17	+21 20.9	1.593	2.573	3.3	21.4	2 11	9 14.29	+16 8.8	1.420	2.404	2.2	20.8
2 21	9 3.86	+22 0.8	1.639	2.590	7.6	21.7	2 21	9 3.93	+16 43.5	1.430	2.390	7.3	21.1
3 2	8 55.41	+22 26.0	1.712	2.606	11.6	22.0	3 2	8 55.20	+17 9.7	1.466	2.376	12.1	21.3
3 12	8 49.61	+22 36.1	1.807	2.621	15.0	22.2	3 12	8 49.13	+17 24.7	1.525	2.361	16.2	21.6
461462	2002 <i>QC</i> ₅₀		2 6.9 262°18	0°7/ 7.2 17			333397	2002 <i>TJ</i> ₁₁₃		2 6.9 83°52	0°6/ 7.3 18		
1 2	9 49.23	+13 39.1	1.893	2.687	14.8	21.3	1 2	9 45.24	+13 16.3</				

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
90734	1993 <i>FW</i> ₆		2 6.9 68°67'	3°0'	4.8 18		133478	2003 <i>SB</i> ₂₅₅		2 6.9 169°95'	1°2'	5.9 18	
1 2	9 45.70	+21 33.7	1.820	2.640	14.2	19.2	1 2	9 43.75	+17 23.8	2.231	3.036	12.5	20.9
1 12	9 40.82	+22 17.8	1.755	2.652	10.7	19.0	1 12	9 38.99	+17 56.4	2.148	3.037	9.4	20.7
1 22	9 33.48	+23 6.4	1.714	2.664	6.9	18.8	1 22	9 32.20	+18 35.9	2.090	3.039	5.9	20.5
2 1	9 24.42	+23 53.1	1.699	2.676	3.5	18.6	2 1	9 23.95	+19 17.9	2.060	3.040	2.3	20.2
2 11	9 14.76	+24 31.2	1.713	2.688	4.1	18.7	2 11	9 15.10	+19 57.5	2.059	3.041	2.4	20.2
2 21	9 5.68	+24 56.2	1.756	2.700	7.7	18.9	2 21	9 6.59	+20 30.4	2.089	3.041	6.0	20.5
3 2	8 58.25	+25 5.9	1.824	2.712	11.3	19.2	3 2	8 59.33	+20 53.5	2.146	3.042	9.5	20.7
3 12	8 53.24	+25 0.6	1.915	2.725	14.5	19.4	3 12	8 54.00	+21 5.6	2.227	3.042	12.5	20.9
241823	2001 <i>SS</i> ₁₃₅		2 6.9 182°56'	4°6'	11.4 18		433086	2012 <i>TD</i> ₇₈		2 6.9 251°38'	2°7'	4.3 17	
1 2	9 39.47	- 2 16.0	2.496	3.227	13.3	20.6	1 2	9 41.43	+20 55.8	2.399	3.212	11.4	21.5
1 12	9 35.53	- 2 10.7	2.401	3.227	11.0	20.4	1 12	9 37.25	+22 0.0	2.312	3.205	8.6	21.3
1 22	9 29.90	- 1 47.4	2.329	3.227	8.4	20.3	1 22	9 31.13	+23 9.9	2.249	3.198	5.6	21.1
2 1	9 23.06	- 1 6.3	2.282	3.227	5.9	20.1	2 1	9 23.57	+24 20.1	2.216	3.191	3.0	21.0
2 11	9 15.69	- 0 9.8	2.264	3.226	4.6	20.0	2 11	9 15.36	+25 24.5	2.212	3.184	3.7	21.0
2 21	9 8.53	+ 0 58.1	2.275	3.226	5.8	20.1	2 21	9 7.37	+26 18.1	2.239	3.177	6.7	21.2
3 2	9 2.33	+ 2 11.9	2.316	3.226	8.2	20.2	3 2	9 0.48	+26 57.5	2.292	3.170	9.8	21.3
3 12	8 57.70	+ 3 26.3	2.382	3.225	10.9	20.4	3 12	8 55.40	+27 21.7	2.370	3.162	12.6	21.5
188993	2008 <i>GS</i> ₁₁₈		2 6.9 208°90'	7°0'	30.9 18		148609	2001 <i>RB</i> ₈₃		2 6.9 53°13'	2°1'	8.2 18	
1 2	9 48.43	+35 11.7	2.353	3.160	11.8	21.1	1 2	9 46.31	+ 8 42.0	1.486	2.287	17.8	19.9
1 12	9 42.92	+36 44.4	2.279	3.154	9.6	20.9	1 12	9 41.37	+ 8 48.2	1.435	2.317	13.7	19.7
1 22	9 34.91	+38 13.1	2.231	3.148	7.7	20.8	1 22	9 33.82	+ 9 11.4	1.406	2.347	9.1	19.5
2 1	9 25.03	+39 29.1	2.210	3.141	7.1	20.7	2 1	9 24.53	+ 9 48.0	1.401	2.377	4.3	19.3
2 11	9 14.29	+40 25.1	2.219	3.133	8.1	20.8	2 11	9 14.77	+10 32.2	1.424	2.407	2.6	19.3
2 21	9 3.87	+40 56.9	2.255	3.125	10.1	20.9	2 21	9 5.82	+11 17.6	1.474	2.437	6.7	19.6
3 2	8 54.93	+41 4.0	2.315	3.117	12.5	21.0	3 2	8 58.79	+11 58.8	1.550	2.467	11.0	19.9
3 12	8 48.32	+40 49.0	2.396	3.107	14.6	21.2	3 12	8 54.37	+12 31.7	1.648	2.498	14.6	20.2
345686	2006 <i>UT</i> ₁₄₇		2 6.9 182°33'	4°0'	10.7 17		520626	2014 <i>OM</i> ₄₁₄		2 6.9 188°16'	1°6'	5.7 18	
1 2	9 40.52	- 0 0.2	2.798	3.532	11.9	21.9	1 2	9 45.29	+16 24.1	1.851	2.661	14.4	22.0
1 12	9 36.12	- 0 7.3	2.702	3.533	9.8	21.7	1 12	9 40.63	+17 18.9	1.769	2.661	10.9	21.7
1 22	9 30.19	- 0 0.2	2.630	3.533	7.4	21.6	1 22	9 33.49	+18 24.5	1.711	2.661	6.9	21.5
2 1	9 23.15	+ 0 20.7	2.584	3.532	5.0	21.4	2 1	9 24.50	+19 35.0	1.679	2.660	2.7	21.2
2 11	9 15.64	+ 0 53.7	2.567	3.532	4.0	21.4	2 11	9 14.71	+20 42.9	1.677	2.658	3.0	21.3
2 21	9 8.34	+ 1 35.9	2.581	3.531	5.2	21.4	2 21	9 5.28	+21 41.5	1.704	2.656	7.2	21.5
3 2	9 1.90	+ 2 23.5	2.623	3.530	7.5	21.6	3 2	8 57.34	+22 26.1	1.758	2.654	11.3	21.7
3 12	8 56.87	+ 3 12.3	2.692	3.528	10.0	21.7	3 12	8 51.76	+22 55.0	1.835	2.652	14.7	22.0
50668	2000 <i>EO</i> ₁₀₅		2 6.9 250°89'	4°8'	2.6 18		235625	2004 <i>RH</i> ₁₇		2 6.9 275°61'	0°4'	7.1 18	
1 2	9 44.11	+27 47.4	2.234	3.053	12.0	18.1	1 2	9 46.42	+13 9.2	1.508	2.321	17.0	20.6
1 12	9 39.48	+28 53.0	2.156	3.048	9.2	17.9	1 12	9 42.12	+13 19.7	1.417	2.308	13.2	20.3
1 22	9 32.62	+29 59.1	2.103	3.044	6.5	17.7	1 22	9 34.81	+13 44.0	1.346	2.294	8.6	20.0
2 1	9 24.13	+30 58.9	2.078	3.040	4.8	17.6	2 1	9 25.11	+14 18.5	1.300	2.280	3.4	19.7
2 11	9 14.95	+31 45.8	2.082	3.036	5.8	17.7	2 11	9 14.25	+14 57.0	1.282	2.266	2.2	19.6
2 21	9 6.11	+32 15.4	2.114	3.032	8.4	17.8	2 21	9 3.68	+15 33.3	1.290	2.252	7.7	19.9
3 2	8 58.63	+32 26.1	2.172	3.027	11.2	18.0	3 2	8 54.87	+16 2.1	1.324	2.238	12.8	20.1
3 12	8 53.25	+32 18.9	2.253	3.023	13.8	18.2	3 12	8 48.92	+16 19.9	1.379	2.224	17.2	20.3
408273	2013 <i>FR</i> ₁₉		2 6.9 348°77'	3°5'	5.1 18		373345	2012 <i>JV</i> ₅₂		2 6.9 206°26'	0°5'	7.2 18	
1 2	9 48.64	+22 19.2	1.449	2.278	16.7	21.1	1 2	9 43.95	+12 19.3	2.029	2.826	13.8	21.7
1 12	9 43.81	+22 47.5	1.375	2.277	12.8	20.8	1 12	9 39.34	+12 37.1	1.942	2.824	10.6	21.5
1 22	9 35.78	+23 20.4	1.324	2.275	8.3	20.6	1 22	9 32.53	+13 6.1	1.878	2.822	6.9	21.2
2 1	9 25.40	+23 50.7	1.297	2.274	4.1	20.3	2 1	9 24.11	+13 42.9	1.841	2.820	2.8	21.0
2 11	9 14.06	+24 10.6	1.297	2.273	4.8	20.4	2 11	9 15.01	+14 23.0	1.834	2.818	1.7	20.9
2 21	9 3.38	+24 14.9	1.323	2.272	9.2	20.6	2 21	9 6.23	+15 1.6	1.855	2.816	5.9	21.2
3 2	8 54.82	+24 2.2	1.374	2.272	13.6	20.9	3 2	8 58.76	+15 34.6	1.905	2.813	9.8	21.4
3 12	8 49.36	+23 33.8	1.446	2.272	17.5	21.1	3 12	8 53.37	+15 59.1	1.978	2.810	13.2	21.6
380481	2003 <i>YF</i> ₁₈₁		2 6.9 338°73'	1°3'	5.8 18		81950	2000 <i>PX</i> ₂		2 6.9 298°63'	3°5'	9.1 17	
1 2	9 40.67	+16 8.6	2.006	2.820	13.3	20.5	1 2	9 43.17	+ 5 37.1	2.208	2.978	13.7	19.2
1 12	9 36.94	+16 55.7	1.922	2.816	10.1	20.3	1 12	9 38.63	+ 5 7.3	2.106	2.965	11.0	19.0
1 22	9 31.04	+17 52.8	1.861	2.812	6.4	20.1	1 22	9 32.05	+ 4 49.5	2.027	2.952	7.9	18.7
2 1	9 23.55	+18 54.9	1.828	2.809	2.4	19.8	2 1	9 23.94	+ 4 43.8	1.974	2.939	4.8	18.5
2 11	9 15.36	+19 55.5	1.824	2.805	2.6	19.8	2 11	9 15.11	+ 4 48.8	1.950	2.926	3.6	18.4
2 21	9 7.48	+20 49.1	1.848	2.802	6.5	20.1	2 21	9 6.48	+ 5 1.9	1.956	2.913	5.9	18.5
3 2	9 0.88	+21 31.2	1.899	2.800	10.3	20.3	3 2	8 58.96	+ 5 19.8	1.989	2.900	9.3	18.7
3 12	8 56.33	+21 59.6	1.974	2.797	13.6	20.5	3 12	8 53.31	+ 5 38.8	2.046	2.888	12.5	18.9
209006	2003 <i>BM</i> ₄₀		2 6.9 269°32'	1°7'	5.1 17		238980	2006 <i>BL</i> ₁₉₅		2 6.9 225°27'	1°8'	8.1 18	
1 2	9 40.48	+17 18.4	2.523	3.328	11.2	20.4	1 2	9 44.74	+ 7 54.5	1.774	2.563	15.8	21.3
1 12	9 36.49	+18 25.4	2.421	3.312	8.5	20.2	1 12	9 40.33	+ 8 22.4	1.681	2.556	12.4	21.0
1 22	9 30.65	+19 41.5	2.345	3.295	5.3	20.0	1 22	9 33.39	+ 9 8.2	1.610	2.548	8.4	20.7
2 1	9 23.40	+21 1.6	2.299	3.278	2.3	19.7	2 1	9 24.52	+10 9.3	1.564	2.540	3.9	20.5
2 11	9 15.45	+22 20.0	2.283	3.261	2.8	19.8	2 11	9 14.70	+11 19.8	1.548	2.531	2.3	20.3
2 21	9 7.61	+23 30.9	2.298	3.243	6.1	19.9	2 21	9 5.14	+12 32.8	1.560	2.522	6.6	20.6
3 2	9 0.73	+24 30.1	2.341	3.226	9.3	20.1	3 2	8 57.01	+13 41.2	1.599	2.512	11.0	20.8
3 12	8 55.51	+25 15.2	2.409	3.208	12.2	20.3	3 12	8 51.25	+14 39.7	1.662	2.502	15.0	21.0
97486	2000 <i>CS</i> ₇₀		2 6.9 30°99'	1°0'	6.3 18		293254	2007 <i>CZ</i> ₁₁		2 6.9 5°41'	1°3'	5.9 18	
1 2	9 47.94	+18 46.5	1.880	2.690	14.3	18.5	1 2	9 43.46	+16 15.3	1.754	2		

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
53458	1999 <i>XH</i> ₁₅₃		2 6.9 186°85	1°9/ 8.1 18			346848	2009 <i>DS</i> ₁₁₆		2 6.9 265°05	1°3/ 5.8 17		
1 2	9 49.35	+ 9 12.4	1.826	2.609	15.7	20.5	1 2	9 42.60	+18 18.2	2.513	3.316	11.3	21.2
1 12	9 43.68	+ 9 14.7	1.737	2.609	12.3	20.3	1 12	9 38.02	+18 42.6	2.416	3.305	8.6	21.0
1 22	9 35.44	+ 9 31.0	1.671	2.608	8.3	20.1	1 22	9 31.58	+19 12.3	2.345	3.293	5.4	20.8
2 1	9 25.28	+ 9 59.1	1.632	2.607	3.9	19.8	2 1	9 23.78	+19 43.8	2.302	3.281	2.2	20.5
2 11	9 14.26	+10 34.6	1.621	2.604	2.4	19.7	2 11	9 15.37	+20 13.0	2.289	3.270	2.3	20.5
2 21	9 3.62	+11 12.6	1.641	2.601	6.5	19.9	2 21	9 7.19	+20 36.3	2.306	3.258	5.6	20.7
3 2	8 54.52	+11 48.2	1.688	2.597	10.8	20.2	3 2	9 0.05	+20 51.1	2.351	3.246	8.9	20.9
3 12	8 47.85	+12 17.5	1.758	2.592	14.5	20.4	3 12	8 54.63	+20 56.3	2.421	3.233	11.7	21.1
179252	2001 <i>UR</i> ₁₂₈		2 6.9 96°95	13°5/29.6 18			170125	2003 <i>AL</i> ₄		2 6.9 307°23	4°1/ 2.9 18		
1 2	10 9.94	+53 29.4	1.875	2.630	16.3	20.0	1 2	9 41.37	+24 16.9	2.200	3.022	12.0	19.6
1 12	10 0.40	+54 42.6	1.832	2.636	14.8	19.9	1 12	9 37.47	+25 36.3	2.118	3.015	9.2	19.4
1 22	9 46.35	+55 32.8	1.810	2.643	13.8	19.9	1 22	9 31.42	+27 0.2	2.061	3.008	6.2	19.2
2 1	9 29.29	+55 47.5	1.810	2.649	13.5	19.9	2 1	9 23.76	+28 21.3	2.032	3.001	4.2	19.1
2 11	9 11.65	+55 19.7	1.832	2.655	14.2	19.9	2 11	9 15.37	+29 32.5	2.033	2.994	5.2	19.2
2 21	8 55.92	+54 10.2	1.877	2.662	15.5	20.0	2 21	9 7.24	+30 28.2	2.062	2.988	8.0	19.3
3 2	8 43.89	+52 26.4	1.943	2.668	17.1	20.2	3 2	9 0.34	+31 5.2	2.118	2.982	11.1	19.5
3 12	8 36.35	+50 18.8	2.027	2.674	18.6	20.3	3 12	8 55.46	+31 23.3	2.196	2.975	13.8	19.7
97885	2000 <i>QY</i> ₅₃		2 6.9 130°92	1°6/ 5.9 18			450191	2001 <i>XA</i> ₂₂₃		2 6.9 88°87	5°2/ 3.7 18		
1 2	9 49.66	+17 53.1	1.790	2.597	15.0	20.3	1 2	9 49.05	+24 30.8	1.466	2.296	16.5	21.0
1 12	9 43.85	+18 24.4	1.719	2.609	11.3	20.1	1 12	9 44.04	+25 44.6	1.407	2.308	12.6	20.8
1 22	9 35.45	+19 3.2	1.673	2.621	7.1	19.8	1 22	9 35.88	+27 2.1	1.372	2.320	8.4	20.6
2 1	9 25.23	+19 43.9	1.653	2.633	2.8	19.6	2 1	9 25.47	+28 13.1	1.361	2.332	5.4	20.5
2 11	9 14.35	+20 20.2	1.663	2.644	2.9	19.6	2 11	9 14.24	+29 7.5	1.378	2.344	6.5	20.5
2 21	9 4.06	+20 47.1	1.701	2.654	7.1	19.9	2 21	9 3.79	+29 39.4	1.422	2.356	10.2	20.8
3 2	8 55.51	+21 2.0	1.767	2.664	11.2	20.2	3 2	8 55.52	+29 47.2	1.489	2.367	14.1	21.0
3 12	8 49.49	+21 4.2	1.856	2.673	14.6	20.4	3 12	8 50.33	+29 33.5	1.577	2.379	17.4	21.3
334111	2001 <i>QH</i> ₂₅₈		2 6.9 106°22	3°5/10.1 18			120700	1997 <i>HO</i> ₁₆		2 6.9 28°31	1°9/ 8.2 18		
1 2	9 42.13	+ 2 6.6	2.651	3.395	12.3	20.7	1 2	9 41.98	+ 8 35.1	1.839	2.634	15.1	20.1
1 12	9 37.31	+ 2 1.5	2.574	3.414	9.9	20.6	1 12	9 38.00	+ 8 47.3	1.759	2.637	11.8	19.8
1 22	9 30.92	+ 2 10.0	2.520	3.432	7.2	20.4	1 22	9 31.76	+ 9 14.6	1.701	2.640	7.9	19.6
2 1	9 23.45	+ 2 31.2	2.494	3.450	4.6	20.3	2 1	9 23.88	+ 9 54.5	1.668	2.644	3.8	19.4
2 11	9 15.60	+ 3 2.9	2.497	3.468	3.5	20.2	2 11	9 15.32	+10 42.3	1.664	2.648	2.3	19.3
2 21	9 8.07	+ 3 41.9	2.531	3.485	5.0	20.3	2 21	9 7.14	+11 32.4	1.689	2.652	6.1	19.5
3 2	9 1.54	+ 4 24.3	2.593	3.502	7.5	20.5	3 2	9 0.36	+12 19.6	1.740	2.656	10.1	19.8
3 12	8 56.53	+ 5 6.2	2.682	3.518	10.0	20.7	3 12	8 55.74	+12 59.5	1.815	2.660	13.6	20.0
11650	1997 <i>CN</i>		2 6.9 131°74	1°1/ 7.7 18			173131	1994 <i>PY</i> ₃₆		2 6.9 153°75	0°1/ 6.8 18		
1 2	9 48.46	+10 58.1	2.114	2.895	13.9	17.9	1 2	9 42.24	+14 36.4	2.877	3.666	10.4	21.3
1 12	9 42.48	+11 6.1	2.039	2.911	10.7	17.7	1 12	9 37.37	+14 55.1	2.792	3.672	7.9	21.1
1 22	9 34.37	+11 24.8	1.988	2.927	7.0	17.5	1 22	9 30.97	+15 20.0	2.733	3.678	5.0	20.9
2 1	9 24.78	+11 51.3	1.965	2.942	3.0	17.3	2 1	9 23.50	+15 48.5	2.703	3.683	1.9	20.7
2 11	9 14.67	+12 21.8	1.973	2.956	1.8	17.3	2 11	9 15.61	+16 17.4	2.704	3.688	1.4	20.7
2 21	9 5.04	+12 52.0	2.010	2.970	5.6	17.5	2 21	9 7.99	+16 43.7	2.737	3.693	4.5	20.9
3 2	8 56.81	+13 18.5	2.077	2.983	9.3	17.8	3 2	9 1.30	+17 5.0	2.798	3.698	7.4	21.1
3 12	8 50.68	+13 38.7	2.168	2.995	12.4	18.0	3 12	8 56.07	+17 19.6	2.885	3.702	9.9	21.3
113611	2002 <i>TM</i> ₅₄		2 6.9 182°13	2°0/ 5.5 18			105019	2000 <i>KK</i> ₁₆		2 6.9 150°72	4°9/10.9 18		
1 2	9 49.10	+17 43.4	1.807	2.614	14.8	20.6	1 2	9 44.60	- 0 58.6	2.342	3.074	14.1	20.3
1 12	9 43.61	+18 36.7	1.725	2.616	11.3	20.4	1 12	9 39.46	- 1 16.8	2.256	3.083	11.6	20.1
1 22	9 35.45	+19 39.7	1.667	2.617	7.1	20.1	1 22	9 32.45	- 1 18.2	2.192	3.091	8.8	20.0
2 1	9 25.29	+20 45.8	1.637	2.616	3.0	19.9	2 1	9 24.09	- 1 2.6	2.154	3.099	6.2	19.8
2 11	9 14.26	+21 47.2	1.636	2.615	3.4	19.9	2 11	9 15.18	- 0 31.7	2.144	3.106	4.9	19.7
2 21	9 3.65	+22 37.5	1.664	2.614	7.6	20.1	2 21	9 6.58	+ 0 11.1	2.165	3.112	6.2	19.8
3 2	8 54.67	+23 12.7	1.720	2.611	11.7	20.4	3 2	8 59.11	+ 1 1.0	2.213	3.118	8.8	20.0
3 12	8 48.23	+23 31.5	1.798	2.607	15.3	20.6	3 12	8 53.41	+ 1 53.0	2.288	3.124	11.5	20.2
137046	1998 <i>VE</i> ₆		2 6.9 45°60	8°6/ 2.5 18			461001	2014 <i>WN</i> ₃₆₁		2 6.9 67°09	9°1/11.7 18		
1 2	9 52.18	+33 21.1	1.341	2.175	17.5	18.9	1 2	9 48.51	- 5 24.6	1.822	2.541	17.9	20.2
1 12	9 46.59	+34 30.4	1.303	2.197	13.9	18.8	1 12	9 42.97	- 6 58.4	1.744	2.550	15.4	20.0
1 22	9 37.45	+35 31.4	1.285	2.220	10.5	18.6	1 22	9 34.95	- 8 12.4	1.686	2.558	12.6	19.8
2 1	9 25.97	+36 12.2	1.292	2.243	8.6	18.6	2 1	9 25.10	- 9 1.9	1.652	2.567	10.2	19.7
2 11	9 13.94	+36 24.6	1.324	2.267	9.6	18.7	2 11	9 14.47	- 9 25.0	1.644	2.575	9.1	19.6
2 21	9 3.20	+36 6.6	1.381	2.292	12.4	18.9	2 21	9 4.24	- 9 23.1	1.662	2.584	9.9	19.7
3 2	8 55.18	+35 21.5	1.459	2.316	15.6	19.2	3 2	8 55.54	- 9 0.7	1.706	2.592	12.1	19.9
3 12	8 50.64	+34 16.0	1.557	2.341	18.4	19.5	3 12	8 49.20	- 8 25.0	1.773	2.601	14.7	20.0
344836	2004 <i>FK</i> ₉₅		2 6.9 275°87	4°9/ 4.1 18			433225	2012 <i>UX</i> ₁₄₈		2 6.9 213°63	7°3/14.4 17		
1 2	9 48.48	+23 25.4	1.381	2.215	17.1	21.1	1 2	9 39.75	-11 39.7	2.678	3.344	13.9	21.8
1 12	9 44.10	+24 23.9	1.302	2.206	13.2	20.9	1 12	9 35.73	-12 1.1	2.578	3.340	12.2	21.6
1 22	9 36.26	+25 29.2	1.245	2.196	8.8	20.6	1 22	9 30.07	-12 2.2	2.497	3.336	10.2	21.5
2 1	9 25.73	+26 31.5	1.213	2.187	5.2	20.3	2 1	9 23.21	-11 41.0	2.441	3.331	8.5	21.3
2 11	9 13.95	+27 20.3	1.207	2.178	6.2	20.4	2 11	9 15.81	-10 58.0	2.410	3.327	7.4	21.3
2 21	9 2.68	+27 47.9	1.227	2.168	10.6	20.6	2 21	9 8.57	- 9 55.8	2.407	3.322	7.6	21.3
3 2	8 53.59	+27 51.5	1.270	2.159	15.2	20.8	3 2	9 2.22	- 8 39.0	2.432	3.317	9.0	21.3
3 12	8 47.85	+27 32.9	1.333	2.150	19.2	21.1	3 12	8 57.36	- 7 13.9	2.482	3.311	11.0	21.5
301982	2000 <i>KT</i> ₄		2 6.9 214°26	10°5/14.8 18			491710	2012 <i>UK</i> ₁₃₀		2 6.9 144°67	5°7/31.8 17		
1 2	9 46.53	-15 43.9	2.240	2.878	17.0	21.4	1 2	9 47.18	+				

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
95486	2002 <i>ED</i> ₂₃		2 6.9 168°39	1.4/ 5.9	18		433178	2012 <i>TW</i> ₃₀₇		2 6.9 196°62	4.8/ 2.8	17	
1 2	9 45.73	+18 14.4	2.140	2.945	12.9	20.2	1 2	9 47.92	+31 27.3	2.611	3.416	10.9	20.9
1 12	9 40.59	+18 39.2	2.058	2.947	9.8	20.0	1 12	9 42.03	+32 6.0	2.533	3.414	8.5	20.8
1 22	9 33.29	+19 9.9	2.000	2.949	6.2	19.7	1 22	9 34.10	+32 41.3	2.480	3.412	6.2	20.6
2 1	9 24.45	+19 42.4	1.970	2.950	2.4	19.5	2 1	9 24.75	+33 7.5	2.456	3.410	4.9	20.5
2 11	9 14.97	+20 11.5	1.970	2.951	2.5	19.5	2 11	9 14.85	+33 20.0	2.462	3.408	5.6	20.6
2 21	9 5.89	+20 33.5	2.000	2.952	6.3	19.7	2 21	9 5.37	+33 16.4	2.496	3.405	7.7	20.7
3 2	8 58.15	+20 45.6	2.057	2.953	9.9	20.0	3 2	8 57.20	+32 56.5	2.558	3.402	10.1	20.8
3 12	8 52.48	+20 47.1	2.138	2.953	13.0	20.2	3 12	8 51.00	+32 22.2	2.643	3.399	12.4	21.0
412532	2014 <i>MS</i> ₄₂		2 6.9 141°91	3°0/ 9.1	18		426332	2012 <i>UK</i> ₁₇₆		2 6.9 7°93	1°3/ 5.9	18	
1 2	9 45.96	+ 5 21.1	1.989	2.758	15.0	21.6	1 2	9 42.02	+17 38.5	2.268	3.076	12.2	21.6
1 12	9 40.81	+ 5 22.6	1.908	2.768	11.9	21.4	1 12	9 37.70	+18 9.1	2.186	3.077	9.2	21.5
1 22	9 33.45	+ 5 40.0	1.850	2.777	8.3	21.2	1 22	9 31.43	+18 46.2	2.127	3.077	5.8	21.2
2 1	9 24.52	+ 6 11.7	1.818	2.786	4.7	21.0	2 1	9 23.76	+19 25.8	2.097	3.077	2.3	21.0
2 11	9 14.95	+ 6 54.1	1.815	2.794	3.2	20.9	2 11	9 15.52	+20 3.0	2.097	3.078	2.4	21.0
2 21	9 5.79	+ 7 42.3	1.842	2.802	6.0	21.1	2 21	9 7.61	+20 33.7	2.125	3.078	5.9	21.2
3 2	8 58.00	+ 8 31.1	1.897	2.809	9.6	21.4	3 2	9 0.88	+20 55.0	2.182	3.079	9.3	21.5
3 12	8 52.31	+ 9 15.9	1.976	2.816	12.9	21.6	3 12	8 56.01	+21 5.7	2.262	3.080	12.3	21.7
468985	2015 <i>AU</i> ₁₃₇		2 6.9 52°50	1°0/ 6.2	18		134359	1994 <i>PP</i> ₂₇		2 6.9 88°50	0°7/ 6.4	18	
1 2	9 42.83	+15 48.5	1.977	2.787	13.6	21.3	1 2	9 47.94	+14 59.4	1.776	2.580	15.2	20.6
1 12	9 38.56	+16 25.2	1.899	2.790	10.4	21.1	1 12	9 42.41	+15 36.9	1.717	2.605	11.5	20.5
1 22	9 32.09	+17 11.2	1.844	2.793	6.5	20.9	1 22	9 34.46	+16 24.5	1.682	2.630	7.2	20.3
2 1	9 24.02	+18 1.9	1.816	2.796	2.4	20.6	2 1	9 24.88	+17 16.6	1.675	2.655	2.6	20.0
2 11	9 15.30	+18 51.5	1.817	2.800	2.3	20.6	2 11	9 14.80	+18 6.6	1.696	2.679	2.3	20.0
2 21	9 6.96	+19 34.6	1.847	2.803	6.4	20.9	2 21	9 5.38	+18 49.2	1.746	2.703	6.6	20.4
3 2	8 59.99	+20 7.4	1.904	2.806	10.2	21.1	3 2	8 57.66	+19 20.7	1.824	2.726	10.6	20.7
3 12	8 55.13	+20 28.1	1.985	2.810	13.5	21.3	3 12	8 52.35	+19 39.7	1.925	2.749	13.9	20.9
498639	2008 <i>SM</i> ₁₅		2 6.9 192°72	0°9/ 6.2	17		93047	2000 <i>ST</i> ₆		2 6.9 57°87	1°8/ 7.8	18	
1 2	9 45.74	+17 7.7	2.353	3.151	12.1	21.9	1 2	9 47.97	+11 10.4	1.403	2.213	18.2	19.0
1 12	9 40.43	+17 26.8	2.265	3.150	9.2	21.7	1 12	9 43.12	+10 57.4	1.335	2.223	14.1	18.8
1 22	9 33.13	+17 51.9	2.201	3.148	5.8	21.5	1 22	9 35.28	+10 58.9	1.288	2.232	9.3	18.5
2 1	9 24.39	+18 19.4	2.165	3.146	2.2	21.2	2 1	9 25.28	+11 12.1	1.265	2.242	4.2	18.2
2 11	9 15.05	+18 45.1	2.161	3.143	2.0	21.2	2 11	9 14.49	+11 32.4	1.269	2.252	2.5	18.2
2 21	9 6.02	+19 5.5	2.186	3.140	5.7	21.4	2 21	9 4.38	+11 54.4	1.299	2.263	7.4	18.5
3 2	8 58.20	+19 18.0	2.240	3.136	9.1	21.6	3 2	8 56.30	+12 13.5	1.355	2.273	12.2	18.8
3 12	8 52.26	+19 21.5	2.318	3.133	12.1	21.8	3 12	8 51.14	+12 26.1	1.433	2.284	16.3	19.1
434951	2006 <i>UX</i> ₃₁		2 6.9 99°19	3°3/ 9.9	17		97815	2000 <i>OA</i> ₄₈		2 6.9 203°55	7°4/ 2.4	18	
1 2	9 40.03	+ 2 57.9	2.494	3.251	12.7	21.7	1 2	10 1.01	+36 40.7	2.112	2.903	13.6	19.1
1 12	9 35.96	+ 2 58.3	2.405	3.253	10.2	21.5	1 12	9 52.61	+37 26.6	2.032	2.897	11.0	18.9
1 22	9 30.22	+ 3 13.0	2.338	3.256	7.4	21.3	1 22	9 41.15	+38 4.1	1.976	2.891	8.7	18.8
2 1	9 23.28	+ 3 41.2	2.298	3.259	4.6	21.2	2 1	9 27.47	+38 24.0	1.948	2.884	7.4	18.7
2 11	9 15.83	+ 4 20.2	2.287	3.261	3.3	21.1	2 11	9 12.98	+38 19.7	1.949	2.877	8.2	18.7
2 21	9 8.63	+ 5 6.5	2.306	3.264	5.2	21.2	2 21	8 59.23	+37 48.7	1.979	2.868	10.4	18.8
3 2	9 2.41	+ 5 55.8	2.353	3.266	8.0	21.4	3 2	8 47.59	+36 53.5	2.036	2.858	13.2	19.0
3 12	8 57.76	+ 6 43.8	2.426	3.268	10.7	21.6	3 12	8 38.99	+35 39.5	2.114	2.848	15.7	19.2
331480	1997 <i>WP</i> ₁₅		2 6.9 1°77	3°6/ 9.1	18		197381	2003 <i>YZ</i>		2 6.9 141°85	14°8/ 26.4	18	
1 2	9 40.66	+ 5 59.8	1.438	2.242	18.1	20.3	1 2	9 54.97	+39 31.2	1.159	1.995	19.6	19.8
1 12	9 37.61	+ 5 51.8	1.361	2.241	14.4	20.0	1 12	9 50.71	+42 58.1	1.119	2.001	16.8	19.6
1 22	9 31.83	+ 6 4.1	1.303	2.240	10.1	19.8	1 22	9 41.42	+46 13.6	1.102	2.006	15.0	19.6
2 1	9 24.01	+ 6 35.5	1.269	2.240	5.6	19.5	2 1	9 27.95	+48 53.9	1.107	2.011	15.1	19.6
2 11	9 15.30	+ 7 21.7	1.261	2.242	3.7	19.4	2 11	9 12.54	+50 40.8	1.135	2.015	17.0	19.7
2 21	9 7.05	+ 8 16.0	1.279	2.244	7.3	19.6	2 21	8 58.10	+51 28.3	1.183	2.019	19.7	19.9
3 2	9 0.50	+ 9 11.2	1.321	2.246	11.8	19.9	3 2	8 47.27	+51 21.7	1.248	2.023	22.4	20.1
3 12	8 56.58	+10 0.7	1.385	2.250	15.9	20.1	3 12	8 41.52	+50 33.6	1.325	2.026	24.8	20.3
372951	2011 <i>BY</i> ₇₈		2 6.9 356°19	2°8/ 8.7	18		389769	2011 <i>SA</i> ₂₃₀		2 6.9 229°43	1°1/ 7.6	17	
1 2	9 41.70	+ 7 19.4	1.637	2.436	16.5	20.7	1 2	9 47.59	+10 36.7	1.873	2.663	15.1	22.7
1 12	9 38.11	+ 7 17.8	1.555	2.433	13.1	20.5	1 12	9 42.49	+10 55.0	1.773	2.650	11.8	22.5
1 22	9 32.01	+ 7 33.5	1.494	2.432	9.0	20.2	1 22	9 34.83	+11 27.3	1.696	2.637	7.8	22.2
2 1	9 24.05	+ 8 4.7	1.458	2.431	4.7	20.0	2 1	9 25.17	+12 10.8	1.645	2.623	3.4	21.9
2 11	9 15.28	+ 8 47.1	1.448	2.430	3.0	19.8	2 11	9 14.52	+13 0.4	1.624	2.608	2.0	21.8
2 21	9 6.89	+ 9 35.1	1.466	2.430	6.7	20.1	2 21	9 4.06	+13 50.2	1.632	2.593	6.5	22.0
3 2	9 0.03	+10 22.5	1.509	2.430	11.0	20.3	3 2	8 55.01	+14 35.0	1.668	2.576	11.0	22.3
3 12	8 55.57	+11 4.1	1.576	2.431	14.8	20.5	3 12	8 48.30	+15 10.9	1.727	2.559	14.9	22.5
325338	2008 <i>JG</i> ₃₈		2 6.9 236°77	1°0/ 6.1	17		204357	2004 <i>TS</i> ₆		2 6.9 67°65	3°5/ 4.8	18	
1 2	9 44.42	+15 54.0	2.168	2.969	12.9	21.6	1 2	9 49.51	+19 45.4	1.357	2.185	17.7	20.0
1 12	9 39.74	+16 31.6	2.071	2.958	9.8	21.4	1 12	9 44.26	+20 56.8	1.312	2.214	13.3	19.8
1 22	9 32.86	+17 18.4	1.999	2.947	6.2	21.1	1 22	9 35.91	+22 16.0	1.290	2.242	8.4	19.6
2 1	9 24.35	+18 10.2	1.955	2.935	2.4	20.9	2 1	9 25.47	+23 33.0	1.293	2.270	4.1	19.4
2 11	9 15.06	+19 1.3	1.940	2.923	2.3	20.8	2 11	9 14.45	+24 37.8	1.323	2.299	4.9	19.5
2 21	9 5.98	+19 46.5	1.956	2.910	6.2	21.1	2 21	9 4.43	+25 23.5	1.380	2.327	9.1	19.8
3 2	8 58.12	+20 22.1	1.999	2.897	10.0	21.3	3 2	8 56.68	+25 47.9	1.462	2.355	13.3	20.2
3 12	8 52.26	+20 45.8	2.066	2.883	13.3	21.4	3 12	8 52.01	+25 52.3	1.564	2.382	16.8	20.5
159651	2002 <i>CZ</i> ₂₇₆		2 6.9 129°57	1°3/ 5.8	18		346934	2010 <i>AQ</i> ₄₄		2 6.9 185°31	2°6/ 5.1	18	
1 2	9 47.47	+14 40.0	1.923	2.723	14.4	20.8	1 2	9 48.13	+18 10.7				

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
416849	2005 <i>MO</i> ₃		2 6.9 180°96	4.2/10.6	18		371183	2005 <i>YA</i> ₁₀₅		2 6.9 143°49	2.4/ 4.7	18	
1 2	9 43.37	0 2.4	2.252	2.994	14.3	21.8	1 2	9 44.83	+20 10.9	2.357	3.163	11.8	21.9
1 12	9 38.72	+0 7.5	2.158	2.995	11.7	21.6	1 12	9 39.78	+21 11.2	2.283	3.173	8.9	21.7
1 22	9 32.10	+0 36.0	2.087	2.996	8.7	21.4	1 22	9 32.74	+22 16.8	2.234	3.182	5.7	21.5
2 1	9 24.06	+1 22.5	2.042	2.996	5.7	21.2	2 1	9 24.30	+23 22.2	2.215	3.191	2.8	21.3
2 11	9 15.37	+2 24.1	2.025	2.995	4.2	21.1	2 11	9 15.31	+24 21.3	2.226	3.200	3.4	21.4
2 21	9 6.93	+3 35.7	2.039	2.994	5.9	21.2	2 21	9 6.66	+25 9.6	2.267	3.208	6.5	21.6
3 2	8 59.60	+4 51.5	2.081	2.992	9.0	21.4	3 2	8 59.24	+25 44.1	2.336	3.215	9.6	21.8
3 12	8 54.08	+6 5.5	2.150	2.990	12.0	21.6	3 12	8 53.70	+26 4.2	2.429	3.222	12.3	22.0
86500	2000 <i>DR</i> ₃₂		2 6.9 162°63	1.5/ 7.9	18		50652	2000 <i>ER</i> ₉₁		2 6.9 135°51	3.5/10.0	18	R
1 2	9 46.43	+8 14.8	1.741	2.530	16.1	20.2	1 2	9 41.22	+2 21.3	2.358	3.113	13.4	19.2
1 12	9 41.58	+8 48.2	1.659	2.535	12.5	20.0	1 12	9 36.98	+2 24.9	2.270	3.117	10.8	19.0
1 22	9 34.18	+9 39.4	1.600	2.539	8.4	19.7	1 22	9 30.94	+2 44.1	2.205	3.122	7.8	18.8
2 1	9 24.90	+10 44.7	1.567	2.543	3.8	19.5	2 1	9 23.63	+3 18.2	2.166	3.126	4.9	18.7
2 11	9 14.81	+11 57.7	1.563	2.547	2.1	19.3	2 11	9 15.77	+4 4.1	2.157	3.130	3.6	18.6
2 21	9 5.11	+13 11.2	1.588	2.550	6.5	19.6	2 21	9 8.19	+4 57.9	2.177	3.134	5.4	18.7
3 2	8 56.97	+14 18.3	1.640	2.552	10.9	19.9	3 2	9 1.67	+5 54.6	2.225	3.138	8.4	18.9
3 12	8 51.26	+15 14.4	1.716	2.553	14.7	20.1	3 12	8 56.82	+6 49.6	2.300	3.142	11.2	19.1
163673	2002 <i>XS</i> ₇		2 6.9 56°18	3.5/ 9.3	18		147196	2002 <i>VX</i> ₉₂		2 6.9 147°31	7.0/31.8	18	
1 2	9 44.74	+5 21.7	1.992	2.764	14.9	18.8	1 2	9 50.11	+33 40.5	2.120	2.931	12.8	20.9
1 12	9 39.73	+4 57.3	1.926	2.785	11.8	18.7	1 12	9 44.29	+35 12.1	2.061	2.941	10.2	20.8
1 22	9 32.68	+4 47.4	1.882	2.807	8.4	18.5	1 22	9 35.86	+36 39.3	2.026	2.949	8.0	20.6
2 1	9 24.23	+4 51.1	1.864	2.829	5.0	18.3	2 1	9 25.53	+37 52.8	2.019	2.958	7.0	20.6
2 11	9 15.33	+5 5.9	1.875	2.851	3.6	18.3	2 11	9 14.47	+38 45.1	2.041	2.965	8.0	20.7
2 21	9 6.94	+5 28.4	1.915	2.873	5.9	18.5	2 21	9 3.93	+39 12.4	2.089	2.972	10.2	20.8
3 2	8 59.94	+5 54.3	1.982	2.895	9.2	18.7	3 2	8 55.09	+39 14.5	2.163	2.979	12.7	21.0
3 12	8 54.98	+6 19.6	2.073	2.917	12.2	18.9	3 12	8 48.79	+38 54.9	2.257	2.985	15.0	21.2
490769	2010 <i>UQ</i> ₈		2 6.9 34°16	19°6/27.4	17		332546	2008 <i>QH</i> ₁₆		2 6.9 135°67	1.7/ 5.4	18	
1 2	10 5.73	+52 22.7	1.077	1.885	22.7	20.8	1 2	9 43.32	+17 25.1	2.345	3.149	12.0	21.2
1 12	10 0.08	+54 39.4	1.048	1.889	20.8	20.7	1 12	9 38.63	+18 25.5	2.269	3.158	9.0	21.0
1 22	9 47.67	+56 25.4	1.035	1.894	19.7	20.7	1 22	9 32.02	+19 33.5	2.219	3.167	5.7	20.8
2 1	9 30.20	+57 19.3	1.039	1.900	19.7	20.7	2 1	9 24.04	+20 43.7	2.197	3.176	2.4	20.6
2 11	9 11.35	+57 8.4	1.061	1.905	20.7	20.8	2 11	9 15.50	+21 50.2	2.206	3.185	2.7	20.6
2 21	8 55.16	+55 54.2	1.100	1.912	22.4	20.9	2 21	9 7.29	+22 47.9	2.245	3.193	6.1	20.9
3 2	8 44.37	+53 49.3	1.154	1.919	24.4	21.1	3 2	9 0.25	+23 33.4	2.313	3.201	9.3	21.1
3 12	8 39.78	+51 10.7	1.220	1.926	26.4	21.3	3 12	8 55.04	+24 5.2	2.405	3.208	12.1	21.3
336730	2010 <i>DL</i> ₇₇		2 6.9 36°19	2°6/ 9.0	18		472424	2015 <i>BB</i> ₂₇₆		2 6.9 216°90	1.5/ 5.8	17	
1 2	9 40.28	+5 40.4	1.893	2.679	15.1	20.1	1 2	9 44.72	+19 27.3	2.418	3.222	11.7	21.3
1 12	9 36.63	+5 58.6	1.818	2.688	11.9	19.9	1 12	9 39.66	+19 45.8	2.330	3.219	8.8	21.1
1 22	9 30.87	+6 34.2	1.764	2.697	8.2	19.7	1 22	9 32.66	+20 8.6	2.268	3.216	5.6	20.9
2 1	9 23.61	+7 24.7	1.736	2.707	4.4	19.4	2 1	9 24.28	+20 31.7	2.233	3.213	2.3	20.6
2 11	9 15.75	+8 25.6	1.736	2.717	2.8	19.4	2 11	9 15.33	+20 51.2	2.229	3.209	2.5	20.6
2 21	9 8.29	+9 30.7	1.765	2.728	5.8	19.6	2 21	9 6.70	+21 3.9	2.255	3.206	5.8	20.9
3 2	9 2.14	+10 34.1	1.821	2.739	9.6	19.8	3 2	8 59.24	+21 7.7	2.310	3.203	9.1	21.1
3 12	8 58.03	+11 30.6	1.901	2.750	12.9	20.1	3 12	8 53.61	+21 2.1	2.388	3.199	11.9	21.2
31353	1998 <i>TE</i>		2 6.9 63°15	4°6/ 9.5	18		31366	1998 <i>WF</i> ₈		2 6.9 66°21	2°9/ 8.4	18	
1 2	9 45.96	+4 17.0	1.352	2.146	19.6	18.4	1 2	9 48.24	+8 52.0	1.387	2.190	18.7	18.4
1 12	9 41.68	+3 59.6	1.285	2.157	15.7	18.2	1 12	9 43.38	+8 31.1	1.318	2.200	14.7	18.1
1 22	9 34.44	+4 4.6	1.237	2.168	11.2	17.9	1 22	9 35.50	+8 26.9	1.270	2.210	10.0	17.9
2 1	9 25.03	+4 31.3	1.212	2.179	6.6	17.7	2 1	9 25.44	+8 37.6	1.246	2.220	5.1	17.6
2 11	9 14.78	+5 15.5	1.213	2.190	4.7	17.6	2 11	9 14.55	+8 59.1	1.248	2.230	3.3	17.5
2 21	9 5.16	+6 10.2	1.239	2.202	7.9	17.8	2 21	9 4.34	+9 26.0	1.277	2.241	7.5	17.8
3 2	8 57.53	+7 7.6	1.291	2.214	12.3	18.1	3 2	8 56.15	+9 52.8	1.331	2.251	12.2	18.1
3 12	8 52.78	+8 0.4	1.365	2.225	16.4	18.4	3 12	8 50.91	+10 14.9	1.407	2.262	16.3	18.4
330067	2005 <i>VP</i> ₃₂		2 6.9 59°15	7°0/11.9	18		295006	2008 <i>EX</i> ₄₂		2 6.9 203°65	4°0/10.5	16	
1 2	9 43.12	-3 33.7	1.836	2.575	17.1	20.8	1 2	9 42.60	+0 20.4	2.318	3.061	13.9	21.7
1 12	9 38.87	-4 13.4	1.758	2.584	14.4	20.6	1 12	9 38.14	+0 31.4	2.219	3.057	11.3	21.6
1 22	9 32.35	-4 31.2	1.700	2.593	11.3	20.4	1 22	9 31.77	+1 0.5	2.142	3.052	8.4	21.4
2 1	9 24.19	-4 25.3	1.666	2.602	8.5	20.3	2 1	9 23.98	+1 47.0	2.092	3.047	5.5	21.2
2 11	9 15.36	-3 56.8	1.658	2.611	7.1	20.2	2 11	9 15.53	+2 48.2	2.071	3.041	4.0	21.1
2 21	9 6.92	-3 9.8	1.676	2.620	8.1	20.3	2 21	9 7.27	+3 59.2	2.079	3.035	5.8	21.2
3 2	8 59.87	-2 10.4	1.721	2.629	10.7	20.5	3 2	9 0.06	+5 14.2	2.117	3.028	8.8	21.3
3 12	8 55.00	-1 6.1	1.789	2.638	13.6	20.7	3 12	8 54.60	+6 27.6	2.180	3.021	11.8	21.5
111548	2001 <i>YG</i> ₁₃₆		2 6.9 213°90	1°9/ 8.0	18		362113	2009 <i>CN</i> ₅₆		2 6.9 352°20	2°7/ 8.7	18	
1 2	9 48.14	+10 31.7	2.104	2.884	13.9	19.3	1 2	9 42.37	+6 8.0	1.499	2.298	17.8	20.9
1 12	9 42.48	+10 10.9	2.010	2.880	10.9	19.1	1 12	9 38.89	+6 28.7	1.418	2.296	14.1	20.7
1 22	9 34.59	+9 59.6	1.939	2.875	7.3	18.9	1 22	9 32.69	+7 11.2	1.357	2.295	9.7	20.4
2 1	9 25.04	+9 56.4	1.896	2.870	3.6	18.6	2 1	9 24.42	+8 13.1	1.321	2.294	5.0	20.1
2 11	9 14.76	+9 59.0	1.882	2.865	2.3	18.5	2 11	9 15.22	+9 28.1	1.311	2.294	3.0	20.0
2 21	9 4.81	+10 4.5	1.899	2.859	5.8	18.7	2 21	9 6.41	+10 48.1	1.329	2.293	7.1	20.2
3 2	8 56.17	+10 10.1	1.944	2.853	9.6	19.0	3 2	8 59.26	+12 4.5	1.372	2.293	11.8	20.5
3 12	8 49.64	+10 13.2	2.014	2.847	13.0	19.2	3 12	8 54.74	+13 10.7	1.437	2.293	16.0	20.8
233608	2007 <i>SK</i> ₁₆		2 6.9 229°05	1°0/ 7.7	17		288652	2004 <i>PN</i> ₅₀		2 6.9 129°30	2°2/ 5.6	18	
1 2	9 42.76	+11 6.2	2.333	3.120	12.5	21.1	1 2	9 50.86	+19 27.9	1.703	2.514	15.4	21.2
1 12	9 38.23	+											

EPHEMERIDES

2 6.9

2 6.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
123317	2000 <i>VU</i> ₉		2 6.9 348°58	3°6/ 4.6 18			233628	2007 <i>TD</i> ₄₄₃		2 6.9 201°57	4°1/ 3.2 18		
1 2	9 44.16	+22 12.0	1.664	2.493	14.9	19.3	1 2	9 44.50	+26 33.3	2.387	3.201	11.5	20.5
1 12	9 40.14	+22 58.6	1.588	2.489	11.4	19.1	1 12	9 39.67	+27 30.6	2.308	3.199	8.8	20.3
1 22	9 33.40	+23 50.6	1.535	2.486	7.4	18.8	1 22	9 32.76	+28 28.7	2.255	3.197	6.0	20.2
2 1	9 24.66	+24 41.0	1.507	2.483	4.0	18.6	2 1	9 24.36	+29 21.7	2.230	3.195	4.2	20.0
2 11	9 15.08	+25 22.1	1.508	2.481	4.7	18.7	2 11	9 15.34	+30 3.8	2.234	3.193	5.0	20.1
2 21	9 5.96	+25 48.3	1.535	2.479	8.6	18.9	2 21	9 6.65	+30 31.0	2.267	3.190	7.6	20.2
3 2	8 58.57	+25 56.9	1.587	2.478	12.5	19.1	3 2	8 59.20	+30 41.6	2.327	3.188	10.4	20.4
3 12	8 53.78	+25 48.2	1.660	2.477	16.0	19.3	3 12	8 53.71	+30 36.4	2.410	3.185	12.9	20.6
116361	2003 <i>YZ</i> ₉₅		2 6.9 172°69	1°6/ 5.7 18			92772	2000 <i>QW</i> ₁₃₂		2 6.9 54°66	4°2/ 4.9 18		
1 2	9 46.27	+16 58.4	2.038	2.842	13.5	20.2	1 2	9 52.98	+24 56.4	1.467	2.292	16.8	18.4
1 12	9 41.20	+17 50.6	1.956	2.845	10.2	20.0	1 12	9 47.13	+25 16.4	1.397	2.294	12.9	18.2
1 22	9 33.83	+18 51.7	1.899	2.848	6.5	19.8	1 22	9 37.97	+25 37.3	1.348	2.296	8.5	17.9
2 1	9 24.77	+19 56.4	1.870	2.850	2.6	19.5	2 1	9 26.41	+25 51.3	1.324	2.299	4.8	17.7
2 11	9 15.00	+20 57.8	1.871	2.851	2.8	19.5	2 11	9 13.97	+25 51.3	1.328	2.301	5.3	17.8
2 21	9 5.59	+21 50.3	1.902	2.852	6.7	19.8	2 21	9 2.33	+25 33.7	1.358	2.303	9.4	18.0
3 2	8 57.56	+22 29.9	1.960	2.852	10.5	20.0	3 2	8 52.98	+24 58.8	1.414	2.306	13.7	18.3
3 12	8 51.70	+22 55.2	2.042	2.852	13.7	20.2	3 12	8 46.87	+24 9.6	1.491	2.309	17.5	18.5
313185	2001 <i>PC</i> ₂₄		2 6.9 220°80	2°7/ 4.7 18			83399	2001 <i>SS</i> ₃₀		2 6.9 108°14	6°0/ 1.7 18		
1 2	9 46.66	+21 12.6	2.306	3.111	12.1	21.6	1 2	9 49.78	+35 44.6	2.595	3.395	11.1	19.7
1 12	9 41.40	+22 3.7	2.212	3.101	9.2	21.4	1 12	9 43.42	+36 35.6	2.540	3.412	8.9	19.6
1 22	9 33.94	+23 0.1	2.143	3.090	5.9	21.2	1 22	9 34.97	+37 19.8	2.510	3.428	6.9	19.5
2 1	9 24.83	+23 56.2	2.102	3.078	3.0	21.0	2 1	9 25.13	+37 51.1	2.509	3.444	6.0	19.5
2 11	9 14.95	+24 46.1	2.092	3.066	3.7	21.0	2 11	9 14.87	+38 5.0	2.536	3.460	6.7	19.5
2 21	9 5.29	+25 24.9	2.112	3.053	6.9	21.2	2 21	9 5.21	+37 59.8	2.591	3.475	8.5	19.7
3 2	8 56.85	+25 49.7	2.160	3.039	10.3	21.3	3 2	8 57.02	+37 36.0	2.673	3.490	10.5	19.8
3 12	8 50.43	+25 59.8	2.232	3.024	13.3	21.5	3 12	8 50.95	+36 56.6	2.777	3.505	12.4	20.0
160014	3057 <i>T</i> ₋₂		2 6.9 140°86	0°3/ 7.2 18			386586	2009 <i>FQ</i> ₃₀		2 6.9 23°98	1°6/ 5.7 18		
1 2	9 43.39	+12 20.1	2.932	3.710	10.5	22.0	1 2	9 40.92	+17 11.0	1.915	2.733	13.7	20.6
1 12	9 38.21	+12 47.2	2.852	3.725	8.0	21.9	1 12	9 37.20	+17 55.2	1.843	2.740	10.3	20.4
1 22	9 31.53	+13 22.1	2.798	3.739	5.1	21.7	1 22	9 31.29	+18 48.0	1.796	2.747	6.5	20.2
2 1	9 23.81	+14 1.9	2.773	3.752	2.0	21.5	2 1	9 23.82	+19 44.0	1.775	2.755	2.6	19.9
2 11	9 15.71	+14 43.1	2.780	3.765	1.2	21.5	2 11	9 15.74	+20 37.0	1.783	2.764	2.8	20.0
2 21	9 7.88	+15 22.5	2.819	3.777	4.3	21.7	2 21	9 8.10	+21 21.5	1.819	2.773	6.7	20.2
3 2	8 50.99	+15 57.2	2.888	3.788	7.2	21.9	3 2	8 51.84	+21 53.8	1.882	2.783	10.4	20.5
3 12	8 55.54	+16 25.2	2.983	3.799	9.7	22.1	3 12	8 57.69	+22 12.5	1.968	2.793	13.6	20.7
8476	1986 <i>QT</i> ₂		2 6.9 188°63	0°5/ 6.6 18			182655	2001 <i>UE</i> ₁₉₄		2 6.9 201°34	1°9/ 5.6 18		
1 2	9 48.69	+14 2.7	1.697	2.500	15.8	18.6	1 2	9 45.69	+18 31.6	1.978	2.788	13.6	21.0
1 12	9 43.48	+14 40.4	1.613	2.500	12.1	18.4	1 12	9 40.86	+19 10.7	1.894	2.786	10.3	20.8
1 22	9 35.52	+15 31.1	1.552	2.499	7.7	18.1	1 22	9 33.67	+19 57.1	1.835	2.784	6.6	20.5
2 1	9 25.49	+16 29.6	1.517	2.498	2.9	17.8	2 1	9 24.75	+20 45.6	1.803	2.782	2.8	20.3
2 11	9 14.52	+17 28.8	1.512	2.495	2.3	17.7	2 11	9 15.09	+21 30.0	1.800	2.779	3.0	20.3
2 21	9 3.94	+18 21.8	1.535	2.492	7.2	18.0	2 21	9 5.78	+22 5.2	1.826	2.777	6.9	20.5
3 2	8 55.04	+19 3.5	1.585	2.488	11.8	18.3	3 2	8 57.91	+22 27.9	1.879	2.774	10.7	20.8
3 12	8 48.76	+19 31.4	1.657	2.484	15.6	18.5	3 12	8 52.27	+22 37.1	1.956	2.770	14.0	21.0
457155	2008 <i>GU</i>		2 6.9 354°77	8°6/31.4 16			313824	2004 <i>CW</i> ₁		2 6.9 112°49	10°4/ 4.4 16		
1 2	9 35.76	+26 2.0	1.088	1.956	18.2	19.6	1 2	10 14.92	+37 58.9	1.200	2.007	20.9	19.7
1 12	9 35.11	+28 22.2	1.028	1.947	14.1	19.3	1 12	10 4.62	+38 29.4	1.147	2.021	17.0	19.5
1 22	9 30.92	+30 51.7	0.988	1.940	10.3	19.1	1 22	9 49.28	+38 43.2	1.113	2.035	13.1	19.3
2 1	9 23.90	+33 13.6	0.972	1.935	8.6	19.0	2 1	9 30.59	+38 25.2	1.104	2.049	10.6	19.2
2 11	9 15.59	+35 9.9	0.979	1.932	10.7	19.1	2 11	9 11.33	+37 26.5	1.120	2.062	11.1	19.3
2 21	9 7.85	+36 28.6	1.008	1.931	14.7	19.3	2 21	8 54.31	+35 49.8	1.162	2.074	14.1	19.5
3 2	9 2.48	+37 5.5	1.057	1.931	18.8	19.5	3 2	8 41.52	+33 45.7	1.228	2.086	17.8	19.8
3 12	9 0.68	+37 3.9	1.122	1.934	22.4	19.8	3 12	8 33.72	+31 27.7	1.315	2.097	21.2	20.0
503606	2016 <i>GX</i> ₉₈		2 6.9 307°25	0°9/ 7.6 17			143402	2003 <i>BL</i> ₄₂		2 6.9 342°63	6°2/10.8 17		
1 2	9 41.84	+10 21.7	1.889	2.688	14.6	21.8	1 2	9 44.90	- 1 18.0	2.266	2.998	14.5	19.5
1 12	9 38.00	+10 49.7	1.800	2.683	11.3	21.6	1 12	9 39.90	- 2 21.4	2.173	2.995	12.1	19.3
1 22	9 31.89	+11 32.2	1.734	2.678	7.4	21.4	1 22	9 32.90	- 3 10.4	2.101	2.993	9.5	19.1
2 1	9 24.08	+12 26.0	1.695	2.673	3.2	21.1	2 1	9 24.43	- 3 42.7	2.056	2.991	7.2	19.0
2 11	9 15.50	+13 25.6	1.684	2.668	1.8	21.0	2 11	9 15.31	- 3 57.9	2.039	2.989	6.2	18.9
2 21	9 7.21	+14 24.9	1.702	2.664	6.1	21.3	2 21	9 6.42	- 3 57.5	2.050	2.987	7.3	19.0
3 2	9 0.25	+15 18.3	1.746	2.660	10.3	21.5	3 2	8 58.66	- 3 44.5	2.088	2.986	9.7	19.1
3 12	8 55.43	+16 1.9	1.815	2.655	13.9	21.7	3 12	8 52.74	- 3 23.5	2.152	2.985	12.3	19.3
130876	2000 <i>VU</i> ₄		2 6.9 76°14	2°1/ 5.6 18			439719	2015 <i>DV</i> ₁₇₆		2 6.9 235°17	3°5/10.7 17		
1 2	9 46.54	+17 37.7	1.510	2.333	16.5	19.9	1 2	9 39.73	- 0 3.7	2.946	3.678	11.4	21.6
1 12	9 42.02	+18 23.5	1.442	2.341	12.5	19.7	1 12	9 35.63	+ 0 11.1	2.835	3.666	9.4	21.4
1 22	9 34.62	+19 19.5	1.397	2.349	7.9	19.4	1 22	9 30.03	+ 0 40.7	2.748	3.653	7.0	21.2
2 1	9 25.12	+20 18.9	1.377	2.357	3.2	19.2	2 1	9 23.32	+ 1 24.5	2.687	3.639	4.7	21.1
2 11	9 14.81	+21 13.3	1.384	2.365	3.5	19.2	2 11	9 16.08	+ 2 20.4	2.657	3.625	3.5	21.0
2 21	9 5.11	+21 55.9	1.419	2.373	8.1	19.5	2 21	9 8.96	+ 3 24.8	2.657	3.611	4.8	21.0
3 2	8 57.32	+22 22.7	1.479	2.381	12.6	19.8	3 2	9 2.59	+ 4 33.4	2.687	3.596	7.3	21.2
3 12	8 52.33	+22 32.9	1.560	2.389	16.3	20.0	3 12	8 57.54	+ 5 41.6	2.744	3.581	9.8	21.3
208351	Sielmann		2 6.9 63°71	3°4/ 8.8 18			416900	2005 <i>QG</i> ₁₇₁		2 6.9 105°69	1°6/ 5.9 18		
1 2	9 50.36	+ 7 36.2	2.168	2.932	14.1	19.6	1 2	9 50.98	+19 38.6	2.16			

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
376237	2011 <i>EN</i> ₄₅		2 6.9 132°31	1°0/ 6.2 18			206363	2003 <i>QB</i> ₅₇		2 6.9 154°35	1°3/ 5.9 18		
1 2	9 43.77	+16 6.7	2.185	2.989	12.7	21.1	1 2	9 48.84	+17 23.7	2.078	2.877	13.5	21.4
1 12	9 39.10	+16 43.3	2.107	2.995	9.7	20.9	1 12	9 43.03	+17 57.7	2.001	2.886	10.2	21.2
1 22	9 32.39	+17 28.0	2.052	3.000	6.1	20.7	1 22	9 34.94	+18 39.0	1.948	2.895	6.4	20.9
2 1	9 24.23	+18 16.5	2.026	3.006	2.3	20.5	2 1	9 25.23	+19 22.4	1.923	2.903	2.5	20.7
2 11	9 15.49	+19 3.4	2.029	3.011	2.2	20.5	2 11	9 14.88	+20 2.6	1.928	2.909	2.5	20.7
2 21	9 7.10	+19 44.1	2.062	3.017	5.9	20.7	2 21	9 4.99	+20 34.8	1.964	2.916	6.4	21.0
3 2	8 59.98	+20 15.2	2.123	3.022	9.5	21.0	3 2	8 56.54	+20 56.1	2.027	2.921	10.1	21.2
3 12	8 54.79	+20 35.1	2.208	3.026	12.5	21.2	3 12	8 50.28	+21 5.7	2.115	2.926	13.3	21.4
500248	2012 <i>JV</i> ₆₃		2 6.9 207°57	1°2/ 7.9 17			382326	2013 <i>TA</i> ₁₂		2 6.9 156°15	1°4/ 5.9 18		
1 2	9 43.67	+9 43.6	2.542	3.318	11.9	23.0	1 2	9 47.03	+18 57.7	2.353	3.152	12.1	21.3
1 12	9 38.81	+10 1.8	2.443	3.312	9.3	22.8	1 12	9 41.42	+19 17.6	2.272	3.158	9.1	21.1
1 22	9 32.14	+10 30.8	2.369	3.306	6.2	22.5	1 22	9 33.80	+19 42.0	2.216	3.163	5.8	20.9
2 1	9 24.14	+11 8.3	2.323	3.298	2.8	22.3	2 1	9 24.78	+20 7.0	2.189	3.168	2.3	20.7
2 11	9 15.54	+11 50.7	2.307	3.291	1.6	22.2	2 11	9 15.21	+20 28.3	2.192	3.173	2.4	20.7
2 21	9 7.13	+12 34.2	2.322	3.282	4.9	22.4	2 21	9 6.04	+20 42.7	2.226	3.177	5.8	20.9
3 2	8 59.72	+13 14.9	2.367	3.273	8.2	22.6	3 2	8 58.14	+20 48.0	2.288	3.181	9.2	21.1
3 12	8 53.95	+13 49.8	2.437	3.264	11.2	22.8	3 12	8 52.16	+20 43.9	2.375	3.184	12.0	21.3
238709	2005 <i>GT</i> ₂₁		2 6.9 5°09 23°5	1.1 16			460356	2014 <i>RH</i> ₄₅		2 6.9 89°23	0°5/ 6.6 18		
1 2	9 34.23	-29 5.3	0.952	1.624	33.5	19.9	1 2	9 46.66	+15 4.2	1.774	2.581	15.1	21.7
1 12	9 34.17	-31 8.5	0.896	1.623	31.9	19.8	1 12	9 41.63	+15 27.5	1.705	2.594	11.5	21.5
1 22	9 30.48	-32 16.9	0.846	1.622	29.9	19.6	1 22	9 34.15	+16 0.7	1.659	2.607	7.3	21.3
2 1	9 23.82	-32 14.8	0.805	1.623	27.8	19.4	2 1	9 24.94	+16 39.1	1.640	2.620	2.7	21.1
2 11	9 15.71	-30 51.4	0.774	1.626	25.6	19.3	2 11	9 15.11	+17 16.9	1.649	2.633	2.1	21.0
2 21	9 8.08	-28 5.2	0.756	1.630	24.0	19.2	2 21	9 5.84	+17 49.1	1.688	2.646	6.6	21.3
3 2	9 2.87	-24 7.4	0.753	1.635	23.5	19.2	3 2	8 58.20	+18 12.1	1.752	2.658	10.7	21.6
3 12	9 1.47	-19 23.4	0.768	1.642	24.3	19.2	3 12	8 52.96	+18 24.2	1.841	2.671	14.1	21.9
101580	1999 <i>BZ</i> ₅		2 6.9 40°27	1°0/ 7.6 18			381655	2009 <i>AF</i> ₃₆		2 6.9 288°34	0°6/ 7.3 17		
1 2	9 42.70	+10 2.9	1.395	2.211	18.0	19.3	1 2	9 45.49	+14 8.8	2.294	3.086	12.6	20.8
1 12	9 39.10	+10 36.5	1.336	2.228	13.8	19.1	1 12	9 40.41	+13 56.7	2.193	3.073	9.7	20.6
1 22	9 32.73	+11 28.6	1.298	2.245	9.0	18.8	1 22	9 33.28	+13 51.3	2.117	3.060	6.3	20.3
2 1	9 24.42	+12 33.9	1.284	2.263	3.7	18.6	2 1	9 24.63	+13 50.4	2.068	3.047	2.6	20.1
2 11	9 15.43	+13 44.5	1.297	2.282	2.1	18.5	2 11	9 15.29	+13 51.3	2.049	3.034	1.6	20.0
2 21	9 7.10	+14 52.0	1.336	2.301	7.1	18.9	2 21	9 6.19	+13 51.5	2.061	3.021	5.4	20.2
3 2	9 0.66	+15 49.8	1.401	2.321	11.8	19.2	3 2	8 58.25	+13 48.6	2.100	3.008	9.1	20.4
3 12	8 56.90	+16 33.6	1.488	2.341	15.7	19.5	3 12	8 52.20	+13 41.1	2.165	2.995	12.3	20.6
321555	2009 <i>SV</i> ₃₂₈		2 6.9 194°91	3°3/ 4.5 18			127164	2002 <i>GC</i> ₁₄₉		2 6.9 343°82	1°2/ 7.8 18		
1 2	9 49.49	+24 44.7	2.316	3.120	12.1	20.9	1 2	9 42.41	+10 9.3	1.894	2.691	14.6	20.3
1 12	9 43.45	+25 16.8	2.231	3.118	9.2	20.7	1 12	9 38.40	+10 29.4	1.809	2.690	11.4	20.0
1 22	9 35.18	+25 49.8	2.171	3.115	6.1	20.5	1 22	9 32.14	+11 3.5	1.746	2.689	7.5	19.8
2 1	9 25.31	+26 18.5	2.140	3.112	3.6	20.4	2 1	9 24.22	+11 48.5	1.710	2.688	3.3	19.5
2 11	9 14.79	+26 37.7	2.139	3.108	4.1	20.4	2 11	9 15.57	+12 39.5	1.702	2.687	1.9	19.4
2 21	9 4.67	+26 44.1	2.168	3.103	7.1	20.6	2 21	9 7.26	+13 30.9	1.723	2.686	6.0	19.7
3 2	8 55.92	+26 36.5	2.225	3.098	10.2	20.7	3 2	9 0.29	+14 17.5	1.771	2.685	10.1	19.9
3 12	8 49.29	+26 15.9	2.306	3.093	13.0	20.9	3 12	8 55.45	+14 55.4	1.843	2.685	13.6	20.2
144548	2004 <i>ED</i> ₁₀₅		2 6.9 135°73	2°1/ 8.9 18			98300	2000 <i>SE</i> ₂₃₅		2 6.9 323°52	1°7/ 5.9 18		
1 2	9 40.29	+ 5 41.8	2.497	3.265	12.3	20.6	1 2	9 46.61	+17 28.1	1.459	2.283	16.9	19.7
1 12	9 36.22	+ 6 7.0	2.409	3.269	9.7	20.4	1 12	9 42.34	+17 58.1	1.381	2.280	12.9	19.4
1 22	9 30.46	+ 6 46.0	2.345	3.274	6.7	20.2	1 22	9 35.02	+18 38.6	1.325	2.277	8.2	19.2
2 1	9 23.50	+ 7 36.7	2.308	3.278	3.6	20.0	2 1	9 25.40	+19 23.5	1.294	2.274	3.2	18.9
2 11	9 16.03	+ 8 35.5	2.301	3.282	2.2	19.9	2 11	9 14.78	+20 5.0	1.290	2.272	3.3	18.9
2 21	9 8.81	+ 9 37.8	2.325	3.286	4.8	20.1	2 21	9 4.67	+20 36.5	1.312	2.269	8.3	19.1
3 2	9 2.58	+10 38.8	2.377	3.290	7.9	20.3	3 2	8 56.49	+20 54.0	1.360	2.267	13.1	19.4
3 12	8 57.91	+11 34.6	2.456	3.294	10.8	20.5	3 12	8 51.24	+20 56.3	1.428	2.265	17.1	19.7
331776	2003 <i>EE</i> ₅₃		2 6.9 351°77	6°0/ 3.2 16			110740	2001 <i>UF</i>		2 6.9 213°28	0°7/ 7.6 17		
1 2	9 35.84	+22 58.3	1.086	1.952	18.4	19.9	1 2	9 41.16	+10 51.3	2.689	3.471	11.2	20.9
1 12	9 35.06	+24 19.4	1.018	1.939	14.1	19.6	1 12	9 36.83	+11 17.3	2.593	3.466	8.6	20.8
1 22	9 30.84	+25 51.1	0.970	1.928	9.5	19.3	1 22	9 30.85	+11 53.2	2.521	3.461	5.6	20.6
2 1	9 23.90	+27 21.3	0.944	1.919	6.1	19.1	2 1	9 23.68	+12 36.4	2.478	3.455	2.4	20.3
2 11	9 15.72	+28 36.3	0.942	1.912	7.6	19.1	2 11	9 15.97	+13 23.3	2.465	3.450	1.4	20.2
2 21	9 8.10	+29 25.5	0.962	1.908	12.2	19.4	2 21	9 8.46	+14 9.9	2.483	3.443	4.6	20.5
3 2	9 2.76	+29 44.1	1.002	1.905	17.0	19.6	3 2	9 1.85	+14 52.8	2.531	3.437	7.8	20.7
3 12	9 0.86	+29 33.0	1.060	1.905	21.2	19.9	3 12	8 56.75	+15 29.0	2.604	3.430	10.6	20.8
271625	2004 <i>PH</i> ₅₇		2 6.9 140°65	1°5/ 8.3 18			52691	1998 <i>FC</i> ₆		2 6.9 35°74	1°2/ 6.1 18		
1 2	9 43.65	+ 7 52.5	2.526	3.296	12.2	22.0	1 2	9 42.10	+16 41.9	1.941	2.755	13.7	19.4
1 12	9 38.67	+ 8 20.6	2.445	3.309	9.5	21.9	1 12	9 38.03	+17 15.8	1.872	2.766	10.3	19.2
1 22	9 31.97	+ 9 0.8	2.388	3.321	6.3	21.7	1 22	9 31.80	+17 57.9	1.827	2.777	6.5	19.0
2 1	9 24.06	+ 9 50.4	2.359	3.333	3.0	21.5	2 1	9 24.05	+18 43.3	1.808	2.789	2.5	18.8
2 11	9 15.67	+10 45.6	2.361	3.344	1.8	21.4	2 11	9 15.74	+19 26.5	1.819	2.801	2.4	18.8
2 21	9 7.59	+11 41.8	2.395	3.355	4.8	21.6	2 21	9 7.90	+20 2.6	1.857	2.813	6.4	19.1
3 2	9 0.57	+12 35.0	2.457	3.365	7.9	21.8	3 2	9 1.46	+20 28.2	1.923	2.826	10.1	19.3
3 12	8 55.18	+13 21.7	2.546	3.374	10.8	22.0	3 12	8 57.11	+20 41.8	2.012	2.839	13.2	19.6
416927	2005 <i>SY</i> ₇₂		2 6.9 145°26	1°9/ 5.5 18			318878	2005 <i>TX</i> ₁₀₉		2 6.9 266°11	0°3/ 7.2 17		
1 2	9 48.58	+20 11.0	2.321	3.120	12.2	21.7	1 2	9 45.04	+13 17.3	1.866			

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
372643	2009 <i>WU</i> ₂₀		2 6.9 89°88	0°8/ 7.6	18		54147	2000 <i>HN</i> ₄₁		2 6.9 342°67	5°1/10.9	18	
1 2	9 42.87	+10 40.2	1.992	2.787	14.1	20.8	1 2	9 39.65	- 0 37.3	1.593	2.365	18.1	18.6
1 12	9 38.58	+11 8.9	1.914	2.794	10.9	20.6	1 12	9 36.74	- 0 21.4	1.505	2.360	14.8	18.4
1 22	9 32.15	+11 50.8	1.859	2.802	7.1	20.4	1 22	9 31.32	+ 0 21.6	1.438	2.356	11.0	18.1
2 1	9 24.20	+12 42.2	1.832	2.810	3.0	20.2	2 1	9 24.00	+ 1 31.5	1.393	2.352	7.2	17.9
2 11	9 15.63	+13 37.8	1.833	2.817	1.7	20.1	2 11	9 15.78	+ 3 3.7	1.375	2.349	5.1	17.8
2 21	9 7.45	+14 32.2	1.863	2.825	5.8	20.4	2 21	9 7.86	+ 4 50.0	1.384	2.346	7.3	17.9
3 2	9 0.59	+15 20.6	1.922	2.832	9.6	20.6	3 2	9 1.41	+ 6 40.1	1.419	2.343	11.2	18.1
3 12	8 55.76	+15 59.4	2.004	2.840	12.9	20.8	3 12	8 57.34	+ 8 24.5	1.478	2.342	15.2	18.3
87681	2000 <i>RL</i> ₁₀₅		2 6.9 212°56	3°6/ 9.6	17		474005	2016 <i>FE</i> ₄₁		2 6.9 257°57	2°4/ 9.0	18	
1 2	9 45.86	+ 3 43.1	2.517	3.264	12.8	20.6	1 2	9 41.34	+ 4 59.5	2.065	2.839	14.4	21.0
1 12	9 40.49	+ 3 22.8	2.413	3.256	10.3	20.4	1 12	9 37.51	+ 5 31.4	1.966	2.830	11.4	20.7
1 22	9 33.24	+ 3 15.0	2.333	3.248	7.5	20.2	1 22	9 31.58	+ 6 21.7	1.890	2.821	7.9	20.5
2 1	9 24.61	+ 3 19.5	2.280	3.239	4.8	20.0	2 1	9 24.05	+ 7 28.2	1.840	2.811	4.2	20.2
2 11	9 15.33	+ 3 34.7	2.257	3.229	3.6	20.0	2 11	9 15.76	+ 8 46.2	1.820	2.801	2.6	20.1
2 21	9 6.23	+ 3 58.1	2.265	3.219	5.5	20.1	2 21	9 7.64	+10 9.4	1.829	2.792	5.7	20.3
3 2	8 58.13	+ 4 26.1	2.302	3.208	8.5	20.2	3 2	9 0.68	+11 31.0	1.866	2.782	9.6	20.5
3 12	8 51.71	+ 4 55.2	2.365	3.197	11.3	20.4	3 12	8 55.64	+12 45.2	1.928	2.771	13.1	20.7
224316	2005 <i>UR</i> ₂₉		2 6.9 117°26	6°1/ 1.9	18		26556	2000 <i>DG</i> ₁₀₇		2 6.9 201°08	0°5/ 6.6	18	
1 2	9 51.30	+33 9.3	2.287	3.092	12.2	20.9	1 2	9 43.69	+12 51.8	1.950	2.751	14.1	18.6
1 12	9 44.84	+34 18.6	2.234	3.112	9.6	20.7	1 12	9 39.41	+13 47.1	1.863	2.749	10.8	18.3
1 22	9 36.03	+35 22.7	2.207	3.132	7.3	20.6	1 22	9 32.82	+14 56.2	1.800	2.747	6.9	18.1
2 1	9 25.62	+36 14.1	2.207	3.151	6.1	20.6	2 1	9 24.53	+16 14.0	1.764	2.744	2.6	17.8
2 11	9 14.71	+36 46.8	2.237	3.170	7.0	20.7	2 11	9 15.44	+17 33.5	1.758	2.741	2.1	17.8
2 21	9 4.43	+36 58.1	2.296	3.188	9.0	20.8	2 21	9 6.64	+18 47.8	1.781	2.738	6.4	18.0
3 2	8 55.80	+36 48.5	2.379	3.205	11.4	21.0	3 2	8 59.17	+19 51.0	1.832	2.735	10.5	18.3
3 12	8 49.51	+36 21.1	2.485	3.222	13.5	21.2	3 12	8 53.84	+20 40.1	1.907	2.731	14.0	18.5
301438	2009 <i>DF</i> ₇₇		2 6.9 267°65	4°0/ 4.0	18		487740	2015 <i>RX</i> ₁₀₇		2 6.9 158°15	2°9/ 5.1	18	
1 2	9 50.53	+29 8.1	2.666	3.465	10.8	20.7	1 2	9 53.15	+21 0.2	1.842	2.647	14.7	22.7
1 12	9 44.11	+29 26.1	2.564	3.445	8.4	20.5	1 12	9 46.65	+21 44.8	1.768	2.657	11.2	22.5
1 22	9 35.58	+29 41.4	2.487	3.424	5.9	20.3	1 22	9 37.43	+22 34.6	1.719	2.666	7.2	22.2
2 1	9 25.50	+29 49.1	2.440	3.403	4.1	20.2	2 1	9 26.26	+23 22.7	1.697	2.673	3.5	22.0
2 11	9 14.75	+29 45.0	2.423	3.382	4.6	20.2	2 11	9 14.33	+24 2.1	1.704	2.680	4.0	22.1
2 21	9 4.29	+29 26.8	2.437	3.361	7.1	20.3	2 21	9 2.97	+24 27.8	1.742	2.686	7.8	22.3
3 2	8 55.08	+28 54.2	2.479	3.339	9.8	20.4	3 2	8 53.40	+24 37.7	1.806	2.690	11.7	22.5
3 12	8 47.82	+28 9.0	2.546	3.317	12.4	20.6	3 12	8 46.48	+24 32.4	1.894	2.694	15.0	22.8
241217	2007 <i>TF</i> ₆₅		2 6.9 64°64	7°0/13.4	18		63826	2001 <i>RD</i> ₇₁		2 6.9 81°31	4°7/ 9.9	18	
1 2	9 40.26	- 7 49.4	2.297	2.999	15.1	20.3	1 2	9 47.09	+ 2 31.8	1.469	2.248	19.0	19.3
1 12	9 36.35	- 8 13.9	2.212	3.007	12.9	20.2	1 12	9 42.27	+ 2 26.8	1.407	2.268	15.3	19.1
1 22	9 30.62	- 8 17.4	2.148	3.015	10.5	20.0	1 22	9 34.71	+ 2 45.1	1.365	2.289	11.0	18.9
2 1	9 23.61	- 7 58.3	2.107	3.022	8.3	19.9	2 1	9 25.22	+ 3 25.5	1.346	2.310	6.7	18.7
2 11	9 16.05	- 7 17.6	2.093	3.030	7.1	19.8	2 11	9 15.05	+ 4 22.9	1.354	2.330	4.7	18.6
2 21	9 8.77	- 6 18.9	2.106	3.038	7.5	19.9	2 21	9 5.57	+ 5 30.1	1.389	2.350	7.4	18.8
3 2	9 2.56	- 5 7.6	2.147	3.046	9.4	20.0	3 2	8 57.96	+ 6 39.0	1.450	2.370	11.4	19.1
3 12	8 58.05	- 3 50.4	2.212	3.054	11.7	20.2	3 12	8 53.04	+ 7 42.5	1.534	2.389	15.2	19.4
315030	2007 <i>BR</i> ₇₇		2 6.9 314°59	1°0/ 7.8	17		244213	2002 <i>AP</i> ₄₆		2 6.9 128°78	1°9/ 8.1	18	
1 2	9 41.92	+11 32.2	2.623	3.407	11.4	21.2	1 2	9 48.29	+ 9 17.4	1.721	2.511	16.2	20.8
1 12	9 37.39	+11 30.2	2.531	3.406	8.8	21.0	1 12	9 42.96	+ 9 20.6	1.646	2.521	12.6	20.5
1 22	9 31.19	+11 36.2	2.464	3.404	5.8	20.8	1 22	9 35.08	+ 9 38.4	1.593	2.532	8.5	20.3
2 1	9 23.80	+11 48.4	2.426	3.402	2.6	20.6	2 1	9 25.37	+10 8.1	1.566	2.542	4.0	20.1
2 11	9 15.92	+12 4.2	2.417	3.401	1.5	20.5	2 11	9 14.93	+10 45.1	1.568	2.551	2.4	20.0
2 21	9 8.29	+12 20.9	2.439	3.399	4.7	20.7	2 21	9 5.01	+11 24.1	1.598	2.560	6.5	20.3
3 2	9 1.64	+12 35.8	2.489	3.398	7.8	20.9	3 2	8 56.75	+12 0.1	1.655	2.568	10.7	20.5
3 12	8 56.55	+12 46.7	2.565	3.396	10.6	21.1	3 12	8 50.96	+12 29.2	1.736	2.576	14.4	20.8
379494	2010 <i>EK</i> ₁₄₁		2 6.9 65°98	0°5/ 7.4	18		100941	1998 <i>MD</i> ₄₈		2 6.9 212°69	0°7/ 7.5	18	
1 2	9 42.21	+11 48.4	2.094	2.890	13.5	21.1	1 2	9 46.36	+11 37.9	2.120	2.907	13.6	20.9
1 12	9 37.95	+12 14.4	2.019	2.901	10.3	20.9	1 12	9 41.26	+11 56.5	2.024	2.901	10.6	20.7
1 22	9 31.69	+12 51.7	1.967	2.911	6.6	20.7	1 22	9 33.94	+12 26.4	1.952	2.893	6.9	20.5
2 1	9 24.01	+13 36.8	1.943	2.922	2.7	20.5	2 1	9 24.95	+13 4.9	1.907	2.885	2.9	20.2
2 11	9 15.79	+14 24.8	1.948	2.933	1.6	20.4	2 11	9 15.18	+13 47.3	1.892	2.876	1.7	20.1
2 21	9 7.97	+15 10.8	1.983	2.944	5.5	20.7	2 21	9 5.66	+14 28.8	1.907	2.867	5.8	20.4
3 2	9 1.40	+15 50.7	2.045	2.954	9.2	20.9	3 2	8 57.38	+15 5.3	1.950	2.857	9.7	20.6
3 12	8 56.76	+16 21.8	2.132	2.965	12.3	21.1	3 12	8 51.15	+15 33.8	2.019	2.846	13.2	20.8
460181	2014 <i>QL</i> ₆₅		2 6.9 52°80	3°9/ 9.3	18		83132	2001 <i>QQ</i> ₂₅₉		2 6.9 304°17	4°3/10.5	18	
1 2	9 46.34	+ 5 8.3	1.406	2.199	19.0	21.0	1 2	9 41.09	+ 1 4.7	2.314	3.065	13.7	19.0
1 12	9 41.70	+ 4 56.7	1.352	2.225	15.0	20.8	1 12	9 37.00	+ 0 52.1	2.222	3.063	11.2	18.9
1 22	9 34.29	+ 5 6.2	1.318	2.250	10.5	20.6	1 22	9 31.08	+ 0 55.4	2.152	3.062	8.3	18.7
2 1	9 25.02	+ 5 34.7	1.308	2.276	6.0	20.4	2 1	9 23.82	+ 1 14.5	2.107	3.061	5.6	18.5
2 11	9 15.18	+ 6 17.5	1.324	2.303	4.0	20.4	2 11	9 15.98	+ 1 47.6	2.091	3.060	4.3	18.4
2 21	9 6.12	+ 7 7.6	1.367	2.329	7.2	20.6	2 21	9 8.38	+ 2 31.0	2.104	3.059	5.8	18.5
3 2	8 59.02	+ 7 58.2	1.435	2.356	11.4	20.9	3 2	9 1.82	+ 3 20.1	2.145	3.057	8.7	18.7
3 12	8 54.64	+ 8 43.3	1.526	2.383	15.1	21.2	3 12	8 56.96	+ 4 10.0	2.211	3.056	11.5	18.9
109959	2001 <i>SP</i> ₄₈		2 6.9 110°45	2°1/ 8.9	18		499449	2010 <i>EK</i> ₇₅		2 6.9 277°14	0°0/ 6.8	17	
1 2	9 40.58	+ 5 41.0	2.474	3.243	12.4	20.2	1 2	9 41.97	+13 21				

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
467708	2008 YV ₁₁₁		2 6.9 99°36'	4.0°/3.4	18		40949	1999 TQ ₂₂₈		2 6.9 133°01'	1.8°/5.5	18	
1 2	9 44.10	+24 52.9	2.218	3.035	12.1	21.5	1 2	9 45.12	+19 0.0	2.220	3.026	12.5	19.9
1 12	9 39.46	+26 2.1	2.151	3.044	9.2	21.3	1 12	9 40.14	+19 38.7	2.144	3.034	9.4	19.7
1 22	9 32.71	+27 13.5	2.108	3.053	6.2	21.1	1 22	9 33.10	+20 23.0	2.093	3.041	6.0	19.5
2 1	9 24.44	+28 20.3	2.094	3.063	4.1	21.0	2 1	9 24.60	+21 8.3	2.070	3.048	2.6	19.3
2 11	9 15.59	+29 16.2	2.110	3.072	5.0	21.1	2 11	9 15.53	+21 49.1	2.077	3.055	2.8	19.3
2 21	9 7.15	+29 56.5	2.154	3.081	7.7	21.3	2 21	9 6.86	+22 21.2	2.113	3.062	6.3	19.5
3 2	9 0.03	+30 19.3	2.225	3.090	10.6	21.5	3 2	8 59.48	+22 41.9	2.178	3.069	9.6	19.8
3 12	8 54.96	+30 25.0	2.319	3.099	13.2	21.7	3 12	8 54.08	+22 50.6	2.266	3.075	12.6	20.0
31421	1999 BZ		2 6.9 335°12'	11.4°/27.2	18		178929	2001 QC ₄₈		2 6.9 99°47'	0°3'/7.2	18	
1 2	9 48.82	+41 24.4	1.725	2.542	15.0	17.4	1 2	9 45.23	+11 47.1	1.896	2.692	14.7	20.6
1 12	9 44.54	+43 45.6	1.672	2.539	12.9	17.3	1 12	9 40.41	+12 23.7	1.826	2.709	11.2	20.4
1 22	9 36.74	+45 56.4	1.643	2.537	11.6	17.2	1 22	9 33.35	+13 13.0	1.780	2.725	7.2	20.2
2 1	9 26.18	+47 43.4	1.639	2.535	11.5	17.2	2 1	9 24.70	+14 10.6	1.761	2.741	2.8	19.9
2 11	9 14.36	+48 55.5	1.660	2.533	12.9	17.3	2 11	9 15.48	+15 10.4	1.772	2.756	1.7	19.9
2 21	9 3.08	+49 28.3	1.703	2.531	14.9	17.4	2 21	9 6.73	+16 6.6	1.812	2.772	6.1	20.2
3 2	8 54.08	+49 23.3	1.765	2.530	17.2	17.6	3 2	8 59.46	+16 54.3	1.879	2.786	10.0	20.4
3 12	8 48.50	+48 46.8	1.844	2.528	19.2	17.7	3 12	8 54.37	+17 30.8	1.970	2.801	13.3	20.7
325170	2008 FC ₅₁		2 6.9 236°31'	0°8'/6.3	17		368254	2001 XE ₁₀₃		2 6.9 180°97'	8°8'/15.5	17	
1 2	9 45.17	+15 38.5	2.003	2.807	13.7	21.6	1 2	9 46.64	-17 55.4	3.049	3.641	13.5	21.5
1 12	9 40.53	+16 10.9	1.910	2.799	10.5	21.4	1 12	9 40.87	-18 55.7	2.951	3.643	12.2	21.4
1 22	9 33.55	+16 53.1	1.842	2.790	6.7	21.2	1 22	9 33.42	-19 37.2	2.872	3.644	10.8	21.3
2 1	9 24.83	+17 40.6	1.801	2.781	2.5	20.9	2 1	9 24.72	-19 56.7	2.817	3.644	9.6	21.2
2 11	9 15.30	+18 27.7	1.789	2.772	2.2	20.8	2 11	9 15.44	-19 52.9	2.787	3.643	8.8	21.1
2 21	9 6.04	+19 9.1	1.807	2.763	6.5	21.1	2 21	9 6.28	-19 26.8	2.785	3.641	8.9	21.1
3 2	8 58.10	+19 40.7	1.851	2.753	10.5	21.3	3 2	8 57.99	-18 41.3	2.808	3.639	9.7	21.2
3 12	8 52.34	+20 0.4	1.920	2.743	13.9	21.5	3 12	8 51.18	-17 41.9	2.857	3.635	11.0	21.3
130656	2000 SD ₉₇		2 6.9 254°79'	0°3'/7.2	18		508580	2017 OY ₇		2 6.9 147°88'	0°2'/7.1	17	
1 2	9 48.45	+13 55.7	1.645	2.451	16.1	19.8	1 2	9 42.38	+13 0.9	2.703	3.489	11.0	22.6
1 12	9 43.50	+13 57.2	1.553	2.441	12.5	19.5	1 12	9 37.69	+13 25.7	2.619	3.496	8.4	22.4
1 22	9 35.71	+14 9.7	1.484	2.430	8.1	19.3	1 22	9 31.37	+13 58.6	2.560	3.503	5.4	22.2
2 1	9 25.72	+14 29.6	1.440	2.420	3.2	18.9	2 1	9 23.92	+14 36.5	2.530	3.510	2.1	22.0
2 11	9 14.69	+14 52.2	1.425	2.409	2.0	18.8	2 11	9 16.01	+15 16.0	2.531	3.516	1.3	21.9
2 21	9 4.00	+15 12.4	1.437	2.398	7.2	19.1	2 21	9 8.37	+15 53.4	2.563	3.521	4.6	22.2
3 2	8 54.98	+15 26.2	1.476	2.387	11.9	19.4	3 2	9 1.71	+16 25.7	2.624	3.527	7.7	22.4
3 12	8 48.65	+15 31.3	1.537	2.376	16.0	19.6	3 12	8 56.57	+16 50.9	2.711	3.532	10.4	22.6
199800	2006 YF ₁₁		2 6.9 314°54'	8°1'/8.4	18		221346	2005 WG ₈₅		2 6.9 13°30'	4°4'/9.8	18	
1 2	10 0.67	+7 4.4	1.082	1.879	23.3	19.4	1 2	9 41.21	+3 31.6	1.540	2.329	17.8	20.0
1 12	9 54.01	+4 50.1	1.007	1.878	19.1	19.2	1 12	9 37.91	+3 21.3	1.463	2.332	14.3	19.8
1 22	9 43.04	+2 45.5	0.950	1.877	14.1	18.9	1 22	9 32.05	+3 32.2	1.407	2.335	10.3	19.5
2 1	9 28.65	+0 57.3	0.916	1.876	9.5	18.6	2 1	9 24.30	+4 3.8	1.374	2.339	6.3	19.3
2 11	9 12.70	-0 28.4	0.907	1.876	8.3	18.5	2 11	9 15.74	+4 52.3	1.367	2.343	4.5	19.2
2 21	8 57.49	-1 28.6	0.924	1.875	11.8	18.7	2 21	9 7.61	+5 51.5	1.386	2.349	7.2	19.4
3 2	8 45.15	-2 5.2	0.964	1.874	16.7	19.0	3 2	9 1.08	+6 53.9	1.431	2.355	11.2	19.6
3 12	8 37.01	-2 24.7	1.023	1.874	21.4	19.3	3 12	8 57.01	+7 52.6	1.498	2.361	15.1	19.9
17745	1998 BG ₃₄		2 6.9 203°74'	0°4'/6.6	18		165925	2001 TQ ₁₆₂		2 6.9 36°20'	4°9'/3.8	18	
1 2	9 42.07	+15 10.7	2.894	3.684	10.3	20.7	1 2	9 46.96	+28 8.5	1.880	2.703	13.7	19.5
1 12	9 37.42	+15 37.2	2.799	3.680	7.8	20.5	1 12	9 41.88	+28 46.8	1.822	2.716	10.6	19.3
1 22	9 31.20	+16 10.3	2.730	3.675	5.0	20.3	1 22	9 34.31	+29 23.1	1.787	2.730	7.3	19.2
2 1	9 23.85	+16 46.9	2.690	3.670	1.9	20.1	2 1	9 25.06	+29 50.6	1.778	2.744	5.1	19.1
2 11	9 16.00	+17 23.6	2.681	3.665	1.5	20.1	2 11	9 15.29	+30 3.7	1.798	2.759	5.8	19.1
2 21	9 8.35	+17 57.1	2.703	3.659	4.6	20.3	2 21	9 6.20	+29 59.4	1.845	2.774	8.6	19.3
3 2	9 1.59	+18 24.6	2.755	3.653	7.6	20.5	3 2	8 58.85	+29 37.6	1.918	2.790	11.7	19.6
3 12	8 56.26	+18 44.5	2.832	3.646	10.2	20.6	3 12	8 53.94	+29 0.9	2.013	2.806	14.5	19.8
370498	2003 SD ₃₆		2 6.9 153°99'	11°1'/25.8	18		365771	2010 XY ₃₅		2 6.9 125°17'	3°7'/3.9	18	
1 2	10 8.77	+58 28.5	2.798	3.509	12.4	21.1	1 2	9 47.54	+23 33.7	2.121	2.932	12.8	21.4
1 12	9 58.94	+59 46.7	2.764	3.518	11.6	21.0	1 12	9 42.10	+24 42.3	2.056	2.948	9.7	21.2
1 22	9 45.38	+60 45.4	2.751	3.526	11.2	21.0	1 22	9 34.40	+25 54.0	2.017	2.963	6.4	21.1
2 1	9 29.26	+61 16.1	2.761	3.534	11.2	21.0	2 1	9 25.11	+27 1.5	2.006	2.977	3.9	20.9
2 11	9 12.45	+61 13.8	2.794	3.540	11.8	21.1	2 11	9 15.23	+27 58.2	2.025	2.991	4.7	21.0
2 21	8 56.93	+60 38.5	2.848	3.547	12.6	21.2	2 21	9 5.83	+28 39.3	2.073	3.004	7.7	21.2
3 2	8 44.31	+59 34.3	2.923	3.553	13.6	21.3	3 2	8 57.90	+29 2.8	2.148	3.017	10.8	21.4
3 12	8 35.48	+58 8.3	3.014	3.558	14.6	21.4	3 12	8 52.17	+29 9.3	2.246	3.029	13.5	21.6
335995	2007 TJ ₃₅₄		2 6.9 145°35'	2°4'/4.5	17		417017	2005 UJ ₅₄		2 6.9 137°51'	1°3'/5.9	18	
1 2	9 43.07	+21 13.6	2.711	3.516	10.5	21.4	1 2	9 46.15	+17 9.5	2.321	3.119	12.3	22.2
1 12	9 38.29	+22 11.8	2.635	3.524	7.9	21.2	1 12	9 40.79	+17 49.8	2.246	3.132	9.3	22.1
1 22	9 31.78	+23 14.0	2.586	3.533	5.1	21.0	1 22	9 33.45	+18 36.8	2.197	3.144	5.8	21.9
2 1	9 24.07	+24 15.2	2.566	3.541	2.7	20.9	2 1	9 24.73	+19 25.9	2.176	3.156	2.3	21.6
2 11	9 15.87	+25 10.3	2.577	3.548	3.2	20.9	2 11	9 15.49	+20 12.1	2.186	3.167	2.3	21.7
2 21	9 7.95	+25 55.6	2.618	3.556	5.9	21.1	2 21	9 6.64	+20 51.0	2.227	3.178	5.8	21.9
3 2	9 1.06	+26 28.5	2.688	3.562	8.6	21.3	3 2	8 59.04	+21 19.7	2.295	3.188	9.1	22.1
3 12	8 55.79	+26 48.3	2.782	3.569	11.1	21.5	3 12	8 53.34	+21 37.0	2.389	3.197	12.0	22.3
362198	2009 HC ₁₈		2 6.9 246°80'	6°4'/11.5	17		196505	2003 MD ₉		2 6.9 229°16'	5°3'/11.2	17	
1 2	9 43.73	-3 6.3	1.940	2.676	16.4	21.4	1 2	9 43.74	-2 15.0	2.523	3.244	13.4	21.1
1 12	9 39.52	-3 27.8	1.837	2.6									

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
85177	1990 SE ₃		2 6.9 101°30	4.4/ 3.6	18		436753	2011 WS ₁₄₁		2 6.9 342°23	23°6/16.2	16	
1 2	9 48.86	+27 0.1	2.194	3.005	12.5	19.3	1 2	9 53.89	+53 56.6	0.887	1.718	24.6	20.8
1 12	9 42.96	+27 55.3	2.138	3.026	9.5	19.2	1 12	9 53.30	+57 48.3	0.863	1.711	23.6	20.7
1 22	9 34.85	+28 49.7	2.106	3.048	6.5	19.0	1 22	9 45.17	+61 4.1	0.855	1.705	23.7	20.6
2 1	9 25.25	+29 36.7	2.104	3.069	4.5	18.9	2 1	9 30.12	+63 17.9	0.863	1.700	24.8	20.7
2 11	9 15.19	+30 10.5	2.130	3.089	5.2	19.0	2 11	9 11.84	+64 12.5	0.883	1.695	26.5	20.8
2 21	9 5.72	+30 28.0	2.186	3.109	7.8	19.2	2 21	8 55.66	+63 47.2	0.915	1.692	28.5	20.9
3 2	8 57.78	+30 28.5	2.268	3.129	10.6	19.4	3 2	8 45.79	+62 14.4	0.957	1.690	30.4	21.1
3 12	8 52.04	+30 13.6	2.373	3.148	13.1	19.6	3 12	8 43.58	+59 52.4	1.006	1.689	32.2	21.2
426308	2012 TE ₁₆₆		2 6.9 224°68	1.4/ 5.6	17		222976	2002 QM ₁₃₃		2 6.9 225°38	1°7/ 5.7	17	
1 2	9 42.60	+17 59.8	2.645	3.446	10.9	21.5	1 2	9 47.16	+17 58.3	2.040	2.845	13.5	22.3
1 12	9 38.05	+18 42.3	2.550	3.437	8.2	21.3	1 12	9 42.08	+18 37.7	1.946	2.835	10.3	22.1
1 22	9 31.74	+19 31.0	2.481	3.429	5.2	21.1	1 22	9 34.60	+19 25.2	1.876	2.825	6.5	21.8
2 1	9 24.12	+20 21.9	2.440	3.420	2.2	20.9	2 1	9 25.30	+20 15.7	1.834	2.814	2.7	21.6
2 11	9 15.90	+21 10.5	2.431	3.410	2.4	20.9	2 11	9 15.15	+21 3.0	1.822	2.802	2.9	21.5
2 21	9 7.88	+21 52.5	2.452	3.401	5.5	21.1	2 21	9 5.25	+21 41.8	1.840	2.790	6.9	21.8
3 2	9 0.83	+22 25.0	2.501	3.390	8.6	21.2	3 2	8 56.70	+22 8.4	1.884	2.778	10.8	22.0
3 12	8 55.39	+22 46.5	2.575	3.380	11.3	21.4	3 12	8 50.36	+22 21.5	1.953	2.765	14.2	22.2
406197	2006 WV ₁₉₄		2 6.9 104°79	6°5/ 1.7	18		130516	2000 QJ ₁₆₆		2 6.9 68°79	4°7/10.0	18	
1 2	9 48.69	+29 56.2	1.873	2.693	13.9	20.9	1 2	9 44.78	+ 2 22.9	1.470	2.252	18.9	19.4
1 12	9 43.42	+31 31.8	1.818	2.709	10.8	20.7	1 12	9 40.67	+ 2 18.4	1.401	2.264	15.2	19.1
1 22	9 35.45	+33 5.6	1.789	2.724	8.0	20.6	1 22	9 33.82	+ 2 37.6	1.352	2.277	11.0	18.9
2 1	9 25.56	+34 27.8	1.786	2.739	6.5	20.5	2 1	9 25.00	+ 3 19.5	1.326	2.289	6.8	18.7
2 11	9 14.96	+35 29.8	1.812	2.753	7.6	20.6	2 11	9 15.40	+ 4 19.5	1.326	2.302	4.8	18.6
2 21	9 4.96	+36 6.9	1.864	2.767	10.2	20.8	2 21	9 6.36	+ 5 30.2	1.353	2.315	7.4	18.8
3 2	8 56.76	+36 18.6	1.942	2.781	13.0	21.0	3 2	8 59.11	+ 6 43.3	1.406	2.328	11.5	19.1
3 12	8 51.19	+36 7.8	2.040	2.794	15.6	21.2	3 12	8 54.49	+ 7 51.2	1.482	2.341	15.4	19.3
322827	2001 SK ₂₆₉		2 6.9 94°21	0°7/ 7.5	18		363769	2005 EZ ₁₂₃		2 6.9 273°00	1°3/ 6.1	16	
1 2	9 46.52	+11 23.6	1.947	2.739	14.5	21.9	1 2	9 45.49	+16 10.8	1.712	2.526	15.2	21.4
1 12	9 41.26	+11 46.8	1.882	2.761	11.1	21.7	1 12	9 41.28	+16 48.1	1.617	2.510	11.7	21.2
1 22	9 33.82	+12 22.0	1.840	2.782	7.2	21.5	1 22	9 34.35	+17 37.1	1.545	2.495	7.5	20.9
2 1	9 24.89	+13 5.2	1.825	2.804	2.9	21.2	2 1	9 25.28	+18 32.5	1.498	2.479	2.9	20.5
2 11	9 15.45	+13 51.3	1.840	2.824	1.7	21.2	2 11	9 15.15	+19 27.3	1.481	2.463	2.8	20.5
2 21	9 6.54	+14 35.2	1.884	2.845	5.8	21.5	2 21	9 5.24	+20 14.6	1.491	2.447	7.6	20.8
3 2	8 59.12	+15 12.8	1.956	2.865	9.6	21.8	3 2	8 56.86	+20 49.3	1.527	2.430	12.1	21.0
3 12	8 53.84	+15 41.5	2.053	2.884	12.8	22.0	3 12	8 51.02	+21 9.3	1.585	2.414	16.1	21.2
338867	2003 YT ₁₇₄		2 6.9 261°88	2°4/ 4.9	18		47237	1999 VP ₄₉		2 6.9 297°75	7°0/ 2.6	18	
1 2	9 42.61	+19 57.7	2.229	3.041	12.2	20.5	1 2	9 48.58	+29 16.5	1.539	2.371	15.8	18.3
1 12	9 38.36	+20 49.3	2.145	3.039	9.2	20.3	1 12	9 44.30	+30 24.5	1.452	2.349	12.5	18.0
1 22	9 32.07	+21 47.0	2.087	3.036	5.9	20.1	1 22	9 36.63	+31 33.9	1.386	2.328	9.1	17.8
2 1	9 24.27	+22 45.4	2.056	3.034	2.8	19.9	2 1	9 26.24	+32 34.0	1.346	2.307	7.1	17.6
2 11	9 15.82	+23 38.8	2.055	3.031	3.4	19.9	2 11	9 14.49	+33 14.3	1.331	2.285	8.3	17.6
2 21	9 7.67	+24 22.0	2.084	3.029	6.6	20.1	2 21	9 3.07	+33 27.8	1.342	2.264	11.8	17.7
3 2	9 0.72	+24 52.1	2.139	3.026	10.0	20.3	3 2	8 53.68	+33 12.8	1.376	2.244	15.7	17.9
3 12	8 55.70	+25 8.1	2.218	3.023	12.9	20.5	3 12	8 47.54	+32 32.7	1.430	2.223	19.3	18.1
331021	2009 UY ₁₄₃		2 6.9 110°84	0°5/ 6.6	18		436728	2011 UC ₁₇₇		2 6.9 142°20	0°8/ 7.8	17	
1 2	9 44.45	+14 49.7	2.041	2.844	13.5	21.6	1 2	9 40.55	+11 10.5	3.002	3.781	10.2	21.9
1 12	9 39.78	+15 21.6	1.965	2.852	10.3	21.4	1 12	9 36.17	+11 24.1	2.915	3.787	7.9	21.8
1 22	9 32.95	+16 3.0	1.912	2.860	6.5	21.2	1 22	9 30.37	+11 45.6	2.853	3.792	5.1	21.6
2 1	9 24.59	+16 49.5	1.887	2.868	2.4	20.9	2 1	9 23.57	+12 12.8	2.820	3.797	2.2	21.4
2 11	9 15.63	+17 35.7	1.892	2.875	2.0	20.9	2 11	9 16.37	+12 43.0	2.818	3.802	1.3	21.3
2 21	9 7.07	+18 16.7	1.925	2.883	6.0	21.2	2 21	9 9.41	+13 13.3	2.846	3.806	4.1	21.5
3 2	8 59.86	+18 48.9	1.987	2.890	9.8	21.4	3 2	9 3.28	+13 41.0	2.904	3.811	6.9	21.7
3 12	8 54.71	+19 10.1	2.072	2.897	13.0	21.7	3 12	8 58.49	+14 4.0	2.989	3.815	9.4	21.9
258121	2001 QB ₂₈₈		2 6.9 92°42	1°8/ 8.2	18		362475	2010 SA ₁₈		2 6.9 232°35	0°3/ 7.2	17	
1 2	9 49.92	+ 9 29.8	2.082	2.856	14.3	20.4	1 2	9 46.38	+12 40.7	1.963	2.758	14.3	22.2
1 12	9 43.56	+ 9 25.5	2.021	2.887	11.0	20.2	1 12	9 41.53	+13 2.4	1.866	2.747	11.0	21.9
1 22	9 35.14	+ 9 32.6	1.983	2.917	7.3	20.0	1 22	9 34.28	+13 36.0	1.792	2.736	7.2	21.7
2 1	9 25.35	+ 9 48.6	1.973	2.947	3.5	19.9	2 1	9 25.20	+14 18.0	1.746	2.725	2.8	21.4
2 11	9 15.19	+10 10.2	1.993	2.976	2.1	19.8	2 11	9 15.23	+15 3.2	1.729	2.713	1.8	21.3
2 21	9 5.62	+10 33.5	2.044	3.004	5.5	20.1	2 21	9 5.49	+15 46.4	1.741	2.700	6.3	21.5
3 2	8 57.55	+10 55.3	2.124	3.032	9.0	20.3	3 2	8 57.09	+16 22.9	1.780	2.687	10.5	21.8
3 12	8 51.59	+11 12.7	2.228	3.059	12.0	20.6	3 12	8 50.90	+16 49.7	1.844	2.674	14.1	22.0
432204	2009 DB ₉₆		2 6.9 253°29	0°2/ 6.8	17		465133	2006 YH ₁₇		2 6.9 22°13	3°7/ 8.9	18	
1 2	9 40.49	+12 49.3	2.412	3.208	11.9	21.1	1 2	9 42.06	+ 7 41.0	1.146	1.970	20.6	20.0
1 12	9 36.58	+13 35.4	2.321	3.204	9.1	20.9	1 12	9 39.08	+ 7 15.6	1.093	1.985	16.2	19.8
1 22	9 30.85	+14 32.3	2.255	3.201	5.8	20.7	1 22	9 32.98	+ 7 11.2	1.058	2.001	11.1	19.5
2 1	9 23.80	+15 36.1	2.217	3.197	2.2	20.4	2 1	9 24.69	+ 7 26.3	1.046	2.019	6.0	19.3
2 11	9 16.16	+16 41.8	2.209	3.193	1.6	20.3	2 11	9 15.66	+ 7 56.0	1.057	2.039	3.9	19.2
2 21	9 8.73	+17 44.2	2.232	3.189	5.3	20.6	2 21	9 7.46	+ 8 33.1	1.093	2.060	7.9	19.5
3 2	9 2.32	+18 39.1	2.283	3.186	8.7	20.8	3 2	9 1.44	+ 9 10.7	1.152	2.082	12.7	19.9
3 12	8 57.58	+19 23.5	2.359	3.182	11.7	21.0	3 12	8 58.42	+ 9 42.5	1.232	2.106	16.9	20.2
106904	2000 YH ₄₆		2 6.9 91°35	0°5/ 7.3	18		103972	2000 DD ₈₁		2 6.9 267°11	2°4/ 5.4	18	
1 2	9 48.54	+12 6.1	1.656	2.457	16.3	20.3	1 2	9 45.84	+17 7.4	1.462	2.288	16.8	19.0
1 12	9												

EPHEMERIDES

2 6.9

2 7.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
126631	2002 <i>CO</i> ₁₆₄		2 6.9 70°03	2.5/ 5.1	18		403850	2011 <i>UK</i> ₃₁₀		2 6.9 39°74	1.8/ 6.0	18	
1 2	9 44.70	+19 24.4	1.824	2.642	14.3	19.9	1 2	9 46.01	+16 56.5	1.254	2.088	18.5	20.5
1 12	9 40.27	+20 17.1	1.754	2.651	10.8	19.7	1 12	9 42.05	+17 31.5	1.198	2.102	14.0	20.3
1 22	9 33.41	+21 17.1	1.709	2.659	6.8	19.5	1 22	9 34.88	+18 18.3	1.163	2.117	8.8	20.1
2 1	9 24.82	+22 17.9	1.690	2.668	3.1	19.3	2 1	9 25.44	+19 9.5	1.152	2.132	3.4	19.8
2 11	9 15.55	+23 12.3	1.700	2.677	3.7	19.3	2 11	9 15.23	+19 56.2	1.166	2.148	3.4	19.8
2 21	9 6.76	+23 54.7	1.738	2.686	7.5	19.6	2 21	9 5.86	+20 31.4	1.206	2.165	8.6	20.2
3 2	8 59.54	+24 21.7	1.802	2.695	11.2	19.8	3 2	8 58.72	+20 51.1	1.270	2.182	13.4	20.5
3 12	8 54.65	+24 32.9	1.889	2.703	14.5	20.1	3 12	8 54.69	+20 54.5	1.355	2.200	17.4	20.8
462638	2009 <i>SU</i> ₃₈		2 6.9 152°89	2.1/ 5.4	18		377895	2006 <i>DT</i> ₈₇		2 6.9 305°44	1.5/ 5.9	18	
1 2	9 47.02	+20 19.6	2.181	2.987	12.7	22.2	1 2	9 43.75	+17 28.5	2.022	2.833	13.4	21.3
1 12	9 41.65	+20 52.8	2.103	2.993	9.6	22.0	1 12	9 39.40	+18 5.2	1.940	2.832	10.1	21.1
1 22	9 34.12	+21 30.6	2.050	2.998	6.1	21.8	1 22	9 32.82	+18 49.9	1.881	2.831	6.4	20.8
2 1	9 25.06	+22 8.0	2.025	3.003	2.8	21.6	2 1	9 24.62	+19 37.7	1.850	2.829	2.6	20.6
2 11	9 15.39	+22 39.7	2.030	3.007	3.1	21.6	2 11	9 15.74	+20 22.9	1.847	2.828	2.6	20.6
2 21	9 6.14	+23 1.8	2.064	3.012	6.5	21.9	2 21	9 7.19	+21 0.3	1.874	2.827	6.5	20.8
3 2	8 58.25	+23 12.1	2.127	3.015	9.9	22.1	3 2	8 59.98	+21 26.6	1.928	2.826	10.3	21.0
3 12	8 52.43	+23 10.4	2.213	3.019	12.9	22.3	3 12	8 54.88	+21 40.3	2.005	2.825	13.5	21.2
166710	2002 <i>TA</i> ₁₉₉		2 6.9 182°20	1.7/ 8.5	17		253208	2002 <i>XP</i> ₈₂		2 6.9 16°24	0.4/ 7.3	18	
1 2	9 43.59	+ 8 18.0	2.893	3.657	10.9	20.9	1 2	9 39.46	+ 9 59.8	1.313	2.138	18.3	19.5
1 12	9 38.53	+ 8 18.0	2.798	3.658	8.6	20.7	1 12	9 37.03	+10 53.6	1.246	2.143	14.1	19.2
1 22	9 31.90	+ 8 27.2	2.728	3.658	5.8	20.6	1 22	9 31.72	+12 9.3	1.199	2.149	9.2	19.0
2 1	9 24.18	+ 8 44.2	2.686	3.658	3.0	20.4	2 1	9 24.28	+13 40.8	1.176	2.156	3.6	18.7
2 11	9 15.98	+ 9 6.7	2.675	3.657	1.9	20.3	2 11	9 15.97	+15 18.1	1.180	2.165	2.2	18.6
2 21	9 8.00	+ 9 31.9	2.696	3.655	4.4	20.5	2 21	9 8.18	+16 50.5	1.209	2.174	7.7	18.9
3 2	9 0.90	+ 9 57.1	2.746	3.654	7.2	20.6	3 2	9 2.26	+18 9.2	1.263	2.184	12.7	19.3
3 12	8 55.24	+10 19.6	2.823	3.651	9.8	20.8	3 12	8 59.10	+19 9.0	1.338	2.195	16.9	19.5
215052	2009 <i>DA</i> ₄₇		2 6.9 14°07	9.6/ 3.9	18		356462	2011 <i>QY</i> ₈		2 7.0 93°50	1.0/ 6.5	18	
1 2	10 1.07	+40 49.7	1.551	2.358	16.9	19.2	1 2	9 50.81	+16 54.0	1.527	2.340	16.8	21.6
1 12	9 53.23	+40 59.7	1.496	2.365	14.0	19.0	1 12	9 45.22	+17 5.3	1.461	2.353	12.8	21.3
1 22	9 41.72	+40 52.9	1.461	2.374	11.3	18.9	1 22	9 36.70	+17 25.2	1.416	2.365	8.1	21.1
2 1	9 27.88	+40 19.6	1.451	2.385	9.7	18.8	2 1	9 26.11	+17 48.7	1.397	2.377	3.1	20.8
2 11	9 13.66	+39 14.6	1.467	2.396	10.1	18.9	2 11	9 14.80	+18 9.6	1.406	2.389	2.6	20.8
2 21	9 0.99	+37 39.6	1.509	2.409	12.3	19.0	2 21	9 4.20	+18 23.3	1.442	2.401	7.5	21.1
3 2	8 51.28	+35 41.6	1.576	2.423	15.1	19.2	3 2	8 55.61	+18 26.9	1.505	2.412	12.0	21.4
3 12	8 45.25	+33 29.7	1.664	2.438	17.8	19.5	3 12	8 49.89	+18 19.7	1.590	2.424	15.8	21.7
56519	2000 <i>HB</i> ₂₁		2 6.9 203°38	0.3/ 6.8	18		168327	1993 <i>FZ</i> ₆₀		2 7.0 296°45	1.7/ 8.4	17	
1 2	9 47.32	+13 29.5	1.806	2.606	15.1	19.5	1 2	9 40.88	+ 8 32.0	2.260	3.044	13.0	20.6
1 12	9 42.41	+14 7.2	1.717	2.603	11.6	19.3	1 12	9 37.01	+ 8 45.6	2.163	3.035	10.2	20.4
1 22	9 34.91	+14 57.9	1.652	2.599	7.5	19.0	1 22	9 31.22	+ 9 12.1	2.089	3.026	6.9	20.2
2 1	9 25.45	+15 57.0	1.614	2.594	2.8	18.7	2 1	9 24.01	+ 9 49.4	2.043	3.017	3.4	20.0
2 11	9 15.09	+16 57.8	1.604	2.588	2.1	18.6	2 11	9 16.15	+10 33.8	2.025	3.008	2.0	19.9
2 21	9 5.04	+17 53.6	1.624	2.582	6.8	18.9	2 21	9 8.49	+11 20.9	2.037	3.000	5.3	20.1
3 2	8 56.50	+18 39.2	1.671	2.576	11.2	19.2	3 2	9 1.89	+12 6.3	2.077	2.991	8.8	20.3
3 12	8 50.38	+19 11.8	1.741	2.568	15.0	19.4	3 12	8 57.05	+12 46.0	2.142	2.983	12.0	20.5
316559	2011 <i>DZ</i> ₅₁		2 6.9 51°62	2.9/ 9.2	18		432056	2008 <i>YM</i> ₂₁		2 7.0 338°19	3.0/ 3.9	17	
1 2	9 42.22	+ 5 24.9	1.907	2.687	15.2	20.9	1 2	9 41.38	+20 27.4	2.164	2.981	12.4	21.2
1 12	9 38.25	+ 5 35.3	1.824	2.690	12.1	20.7	1 12	9 37.58	+21 50.4	2.084	2.980	9.3	21.0
1 22	9 32.09	+ 6 2.8	1.762	2.693	8.4	20.5	1 22	9 31.67	+23 20.9	2.028	2.978	6.0	20.8
2 1	9 24.32	+ 6 45.8	1.727	2.696	4.6	20.2	2 1	9 24.20	+24 52.1	2.001	2.976	3.3	20.6
2 11	9 15.88	+ 7 40.0	1.719	2.699	3.0	20.1	2 11	9 16.02	+26 16.5	2.005	2.975	4.2	20.7
2 21	9 7.77	+ 8 39.9	1.740	2.703	6.0	20.3	2 21	9 8.09	+27 27.6	2.037	2.974	7.4	20.8
3 2	9 0.98	+ 9 39.5	1.789	2.706	9.8	20.6	3 2	9 1.38	+28 21.6	2.096	2.973	10.6	21.0
3 12	8 56.26	+10 33.6	1.861	2.710	13.2	20.8	3 12	8 56.62	+28 57.1	2.179	2.972	13.5	21.2
422079	2014 <i>QB</i> ₃₈₅		2 6.9 182°41	0.2/ 6.8	18		199797	2006 <i>UY</i> ₂₄₀		2 7.0 199°72	1.9/ 8.5	18	
1 2	9 47.53	+14 9.7	2.105	2.898	13.5	22.0	1 2	9 44.74	+ 7 25.8	2.194	2.968	13.7	20.7
1 12	9 42.14	+14 37.2	2.018	2.899	10.4	21.8	1 12	9 39.97	+ 7 43.7	2.099	2.965	10.7	20.4
1 22	9 34.51	+15 14.4	1.954	2.899	6.6	21.6	1 22	9 33.13	+ 8 15.8	2.028	2.961	7.3	20.2
2 1	9 25.24	+15 57.4	1.919	2.899	2.5	21.3	2 1	9 24.75	+ 8 59.9	1.984	2.957	3.7	20.0
2 11	9 15.26	+16 41.1	1.914	2.898	1.8	21.2	2 11	9 15.67	+ 9 52.1	1.969	2.952	2.2	19.9
2 21	9 5.61	+17 20.6	1.939	2.896	6.0	21.5	2 21	9 6.82	+10 47.3	1.985	2.946	5.5	20.1
3 2	8 57.29	+17 52.1	1.992	2.894	9.8	21.7	3 2	8 59.13	+11 40.6	2.029	2.940	9.2	20.3
3 12	8 51.07	+18 13.6	2.070	2.891	13.1	22.0	3 12	8 53.34	+12 27.8	2.098	2.933	12.5	20.5
63911	2001 <i>SV</i> ₃₀		2 6.9 353°35	2.1/ 8.7	18		169107	2001 <i>OW</i> ₇		2 7.0 153°24	1.7/ 8.7	18	
1 2	9 40.15	+ 6 58.5	2.099	2.883	13.9	19.4	1 2	9 41.77	+ 7 19.7	2.827	3.592	11.1	20.8
1 12	9 36.53	+ 7 16.1	2.011	2.882	10.9	19.2	1 12	9 37.19	+ 7 37.1	2.739	3.599	8.7	20.7
1 22	9 30.92	+ 7 48.7	1.946	2.880	7.5	19.0	1 22	9 31.08	+ 8 5.2	2.675	3.606	5.9	20.5
2 1	9 23.87	+ 8 34.2	1.906	2.879	3.8	18.8	2 1	9 23.90	+ 8 42.2	2.641	3.612	3.0	20.3
2 11	9 16.19	+ 9 28.5	1.896	2.878	2.3	18.6	2 11	9 16.29	+ 9 25.2	2.636	3.618	1.8	20.2
2 21	9 8.77	+10 26.5	1.914	2.878	5.5	18.8	2 21	9 8.91	+10 10.5	2.663	3.624	4.3	20.4
3 2	9 2.51	+11 22.8	1.961	2.877	9.1	19.1	3 2	9 2.42	+10 54.6	2.720	3.629	7.2	20.6
3 12	8 58.10	+12 13.0	2.032	2.877	12.4	19.3	3 12	8 57.35	+11 34.6	2.803	3.634	9.8	20.8
165816	2001 <i>RU</i> ₁₀₀		2 6.9 196°07	2.9/ 4.7	18		444403	2006 <i>AK</i> ₃₀		2 7.0 75°48	2.7/ 8.5	18	
1 2	9 45.56	+23 42.8	2.445	3.253	11.4	20.2	1 2	9 48.81	+ 7 48.				