

EPHEMERIDES

6 19.9

6 20.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
181341	2006 <i>RJ</i> ₄		6 19.9 276°86	1°9/20.0	17		157727	2006 <i>BZ</i> ₆₃		6 20.0 285°74	0°6/19.9	17	
5 11	18 25.34	-27 7.6	1.642	2.460	17.0	20.9	5 21	18 19.00	-21 49.6	1.693	2.592	12.7	20.8
5 21	18 21.92	-27 24.1	1.539	2.439	13.8	20.7	5 31	18 12.82	-21 50.5	1.623	2.586	8.9	20.5
5 31	18 15.32	-27 39.5	1.456	2.418	9.8	20.4	6 10	18 4.53	-21 52.3	1.577	2.579	4.6	20.2
6 10	18 6.03	-27 51.1	1.395	2.396	5.4	20.1	6 20	17 55.01	-21 53.9	1.557	2.573	0.6	19.9
6 20	17 54.98	-27 55.6	1.359	2.374	1.9	19.8	6 30	17 45.40	-21 55.1	1.563	2.567	4.7	20.2
6 30	17 43.56	-27 51.5	1.350	2.352	5.5	20.0	7 10	17 36.88	-21 56.1	1.595	2.560	9.0	20.5
7 10	17 33.27	-27 39.7	1.365	2.329	10.3	20.2	7 20	17 30.36	-21 58.0	1.650	2.554	13.0	20.7
7 20	17 25.36	-27 22.8	1.402	2.307	14.8	20.4	7 30	17 26.51	-22 1.6	1.725	2.548	16.3	20.9
509125	2005 <i>YM</i> ₁₅₉		6 19.9 225°33	5°1/21.0	18		156581	2002 <i>FO</i>		6 20.0 173°04	17°6/19.4	18	
5 11	18 26.32	-5 49.9	2.242	3.004	14.7	22.4	5 21	18 23.99	+12 15.8	1.314	2.116	21.3	20.8
5 21	18 21.35	-6 8.1	2.138	2.994	12.3	22.2	5 31	18 16.46	+14 2.9	1.271	2.120	19.4	20.6
5 31	18 14.13	-6 39.9	2.055	2.983	9.5	22.0	6 10	18 6.44	+15 14.7	1.245	2.123	18.0	20.5
6 10	18 5.12	-7 26.4	1.997	2.972	6.7	21.8	6 20	17 55.02	+15 43.3	1.238	2.125	17.6	20.5
6 20	17 54.99	-8 27.2	1.966	2.960	5.1	21.6	6 30	17 43.64	+15 25.1	1.250	2.127	18.2	20.6
6 30	17 44.64	-9 40.5	1.965	2.947	6.2	21.7	7 10	17 33.70	+14 23.6	1.280	2.127	19.6	20.7
7 10	17 35.00	-11 3.0	1.992	2.934	9.0	21.8	7 20	17 26.26	+12 46.6	1.326	2.126	21.5	20.8
7 20	17 26.91	-12 31.0	2.044	2.920	12.1	22.0	7 30	17 21.96	+10 44.6	1.388	2.125	23.5	21.0
69635	1998 <i>FJ</i> ₆₈		6 19.9 120°60	0°2/20.0	18		180462	2004 <i>CV</i> ₁₇		6 20.0 223°93	2°0/20.0	17	
5 11	18 28.62	-23 39.7	1.769	2.575	16.4	19.7	5 21	18 23.02	-28 23.1	1.892	2.781	12.1	21.3
5 21	18 23.58	-23 44.6	1.698	2.591	13.0	19.5	5 31	18 15.61	-28 40.3	1.815	2.771	8.6	21.1
5 31	18 15.78	-23 49.9	1.647	2.607	9.1	19.3	6 10	18 5.99	-28 52.8	1.763	2.761	4.8	20.8
6 10	18 5.91	-23 53.7	1.621	2.622	4.6	19.0	6 20	17 55.04	-28 57.9	1.737	2.750	2.0	20.6
6 20	17 54.99	-23 54.6	1.621	2.637	0.2	18.7	6 30	17 43.93	-28 54.6	1.739	2.738	4.8	20.8
6 30	17 44.25	-23 52.2	1.648	2.651	4.6	19.1	7 10	17 33.88	-28 43.5	1.767	2.726	8.8	21.0
7 10	17 34.88	-23 47.4	1.702	2.664	8.8	19.4	7 20	17 25.89	-28 27.3	1.820	2.713	12.5	21.2
7 20	17 27.71	-23 41.9	1.779	2.677	12.5	19.6	7 30	17 20.62	-28 8.9	1.893	2.700	15.7	21.4
377722	2005 <i>WC</i> ₁₄₈		6 19.9 208°23	3°8/20.3	18		107921	2001 <i>FZ</i> ₁₀₂		6 20.0 132°22	0°6/19.9	17	
5 11	18 29.47	-35 7.4	2.428	3.205	13.3	22.4	5 21	18 22.67	-21 54.3	1.761	2.653	12.7	20.8
5 21	18 23.98	-35 25.9	2.328	3.198	10.9	22.2	5 31	18 15.11	-21 52.0	1.707	2.666	8.8	20.6
5 31	18 15.98	-35 38.0	2.250	3.190	8.1	22.0	6 10	18 5.58	-21 49.7	1.677	2.678	4.6	20.4
6 10	18 6.04	-35 40.2	2.197	3.181	5.4	21.9	6 20	17 55.04	-21 46.8	1.674	2.690	0.6	20.1
6 20	17 54.99	-35 30.2	2.171	3.172	3.8	21.7	6 30	17 44.64	-21 42.9	1.699	2.701	4.5	20.4
6 30	17 43.91	-35 7.0	2.174	3.162	5.3	21.8	7 10	17 35.49	-21 39.0	1.750	2.712	8.7	20.7
7 10	17 33.86	-34 32.4	2.205	3.151	8.1	22.0	7 20	17 28.43	-21 36.1	1.825	2.722	12.3	20.9
7 20	17 25.71	-33 50.0	2.261	3.139	11.0	22.1	7 30	17 23.99	-21 35.5	1.921	2.732	15.3	21.1
459207	2012 <i>DP</i> ₇₇		6 19.9 37°90	6°5/21.3	17		512484	2016 <i>QT</i> ₇₇		6 20.0 308°10	8°5/20.8	18	
5 11	18 22.26	-7 18.4	1.179	2.006	21.8	20.1	5 21	18 24.88	-44 20.8	1.655	2.518	14.9	20.8
5 21	18 19.42	-7 26.1	1.127	2.023	17.9	19.9	5 31	18 17.63	-44 41.4	1.571	2.493	12.2	20.6
5 31	18 13.32	-7 53.7	1.091	2.042	13.5	19.7	6 10	18 7.28	-44 41.8	1.508	2.469	9.8	20.4
6 10	18 4.78	-8 42.7	1.075	2.062	9.2	19.5	6 20	17 55.04	-44 16.0	1.469	2.445	8.5	20.3
6 20	17 54.99	-9 51.2	1.081	2.083	6.6	19.5	6 30	17 42.60	-43 21.7	1.453	2.422	9.5	20.3
6 30	17 45.44	-11 15.0	1.111	2.104	8.1	19.6	7 10	17 31.77	-42 2.4	1.462	2.398	12.1	20.4
7 10	17 37.54	-12 47.7	1.164	2.126	11.9	19.9	7 20	17 23.88	-40 25.6	1.492	2.375	15.3	20.5
7 20	17 32.24	-14 23.3	1.238	2.149	15.8	20.2	7 30	17 19.70	-38 40.5	1.542	2.353	18.5	20.6
142171	2002 <i>RE</i> ₃₈		6 19.9 318°15	3°4/19.9	18		93504	2000 <i>TM</i> ₅₂		6 20.0 132°17	2°8/19.9	18	
5 11	18 20.70	-28 38.9	1.300	2.142	19.2	19.9	5 21	18 18.72	-16 48.3	1.751	2.645	12.7	19.7
5 21	18 19.07	-29 10.5	1.209	2.123	15.7	19.6	5 31	18 12.43	-16 31.4	1.689	2.647	9.0	19.5
5 31	18 13.81	-29 41.1	1.136	2.103	11.3	19.3	6 10	18 4.27	-16 19.1	1.651	2.649	5.2	19.2
6 10	18 5.43	-30 6.5	1.084	2.084	6.6	19.0	6 20	17 55.06	-16 12.0	1.639	2.651	2.8	19.1
6 20	17 54.99	-30 22.0	1.054	2.066	3.4	18.7	6 30	17 45.86	-16 10.6	1.654	2.652	5.3	19.2
6 30	17 44.15	-30 24.7	1.047	2.049	6.8	18.9	7 10	17 37.75	-16 14.9	1.694	2.654	9.1	19.5
7 10	17 34.74	-30 15.3	1.062	2.032	11.9	19.1	7 20	17 31.52	-16 24.8	1.758	2.655	12.7	19.7
7 20	17 28.20	-29 57.2	1.098	2.017	16.8	19.3	7 30	17 27.74	-16 39.9	1.842	2.657	15.7	19.9
497748	2006 <i>SJ</i> ₂₃₉		6 19.9 215°40	1°6/19.9	17		270314	2001 <i>XY</i> ₈		6 20.0 131°28	2°3/20.0	17	
5 11	18 24.85	-19 31.9	1.810	2.619	16.0	22.5	5 21	18 22.70	-29 35.4	2.121	3.004	11.2	21.8
5 21	18 20.76	-19 24.4	1.720	2.615	12.8	22.3	5 31	18 14.99	-29 54.8	2.067	3.019	8.0	21.6
5 31	18 13.98	-19 20.0	1.650	2.610	9.1	22.1	6 10	18 5.49	-30 8.5	2.038	3.034	4.5	21.5
6 10	18 5.11	-19 18.2	1.604	2.604	4.9	21.8	6 20	17 55.06	-30 14.4	2.036	3.048	2.3	21.3
6 20	17 55.00	-19 18.7	1.583	2.598	1.6	21.6	6 30	17 44.76	-30 11.7	2.063	3.061	4.5	21.5
6 30	17 44.80	-19 21.2	1.590	2.592	4.9	21.8	7 10	17 35.59	-30 1.5	2.117	3.073	7.8	21.7
7 10	17 35.68	-19 26.1	1.623	2.585	9.2	22.0	7 20	17 28.32	-29 46.1	2.197	3.085	10.9	21.9
7 20	17 28.57	-19 33.6	1.679	2.578	13.1	22.2	7 30	17 23.47	-29 28.4	2.298	3.097	13.5	22.1
342194	2008 <i>SO</i> ₂₀₈		6 19.9 134°49	4°3/19.6	17		472473	2015 <i>BJ</i> ₄₆₃		6 20.0 9°49	6°6/20.3	17	
5 11	18 22.47	-12 9.2	2.341	3.127	13.5	21.5	5 21	18 20.00	-36 39.6	1.262	2.163	16.0	20.7
5 21	18 17.90	-11 24.5	2.263	3.138	11.0	21.3	5 31	18 14.24	-37 18.2	1.211	2.164	12.2	20.5
5 31	18 11.42	-10 45.0	2.207	3.148	8.2	21.2	6 10	18 5.49	-37 41.9	1.180	2.167	8.5	20.3
6 10	18 3.56	-10 12.4	2.176	3.159	5.6	21.0	6 20	17 55.06	-37 45.4	1.172	2.171	6.7	20.2
6 20	17 55.00	-9 48.4	2.172	3.168	4.3	21.0	6 30	17 44.71	-37 27.0	1.186	2.176	8.3	20.3
6 30	17 46.54	-9 34.0	2.196	3.178	5.7	21.1	7 10	17 36.18	-36 49.9	1.223	2.182	11.9	20.6
7 10	17 38.94	-9 29.5	2.246	3.186	8.3	21.2	7 20	17 30.66	-36 0.4	1.281	2.189	15.7	20.8
7 20	17 32.81	-9 34.4	2.322	3.195	11.0	21.4	7 30	17 28.78	-35 5.0	1.356	2.196	19.0	21.0
297627	2001 <i>TT</i> ₈₁		6 19.9 317°09	0°2/20.0	18		49717						

EPHEMERIDES

6 20.0

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
10902	1997 <i>WB</i> ₂₂		6 20.0	26°77'	1.4°/20.2	18	479379	2013 <i>YM</i> ₁		6 20.0	6°94'	2.5°/20.4	17
5 21	18 20.34	-17 59.2	1.204	2.114	16.0	16.1	5 21	18 20.49	-31 3.0	1.589	2.486	13.5	20.3
5 31	18 14.25	-18 43.5	1.152	2.118	11.3	15.8	5 31	18 13.95	-30 43.5	1.528	2.487	9.7	20.0
6 10	18 5.46	-19 36.5	1.121	2.123	6.0	15.6	6 10	18 5.14	-30 14.4	1.489	2.487	5.5	19.8
6 20	17 55.07	-20 34.7	1.113	2.129	1.4	15.3	6 20	17 55.14	-29 34.6	1.476	2.489	2.5	19.6
6 30	17 44.63	-21 34.0	1.130	2.134	5.7	15.6	6 30	17 45.28	-28 45.4	1.489	2.490	5.2	19.8
7 10	17 35.70	-22 31.1	1.170	2.141	10.9	15.9	7 10	17 36.84	-27 50.3	1.527	2.492	9.4	20.0
7 20	17 29.44	-23 24.3	1.231	2.148	15.5	16.2	7 20	17 30.74	-26 54.1	1.588	2.495	13.2	20.3
7 30	17 26.56	-24 13.1	1.311	2.155	19.3	16.4	7 30	17 27.55	-26 0.7	1.669	2.497	16.5	20.5
475797	2006 <i>XP</i> ₄₃		6 20.0	233°83'	1.8°/20.1	18	503905	2002 <i>CU</i> ₅		6 20.0	76°58'	9.4°/22.2	18
5 21	18 19.02	-30 19.1	2.879	3.756	8.8	22.5	5 21	18 16.47	+ 7 23.4	2.274	3.075	13.5	21.0
5 31	18 12.27	-30 20.2	2.791	3.741	6.3	22.3	5 31	18 10.46	+ 7 31.8	2.227	3.090	11.7	20.9
6 10	18 4.09	-30 16.0	2.730	3.725	3.6	22.1	6 10	18 3.13	+ 7 19.2	2.201	3.104	10.2	20.8
6 20	17 55.09	-30 5.5	2.697	3.708	1.8	21.9	6 20	17 55.14	+ 6 44.3	2.199	3.119	9.4	20.8
6 30	17 46.00	-29 48.3	2.694	3.691	3.6	22.0	6 30	17 47.25	+ 5 47.8	2.221	3.134	9.7	20.8
7 10	17 37.61	-29 25.5	2.720	3.674	6.4	22.2	7 10	17 40.19	+ 4 32.4	2.268	3.149	10.9	21.0
7 20	17 30.54	-28 58.7	2.772	3.656	9.0	22.3	7 20	17 34.53	+ 3 2.7	2.339	3.164	12.5	21.1
7 30	17 25.29	-28 30.3	2.847	3.637	11.4	22.5	7 30	17 30.70	+ 1 23.5	2.430	3.179	14.2	21.2
55976	1998 <i>RE</i> ₅		6 20.0	315°68'	2.4°/19.8	18	285377	1999 <i>TP</i> ₁₃₀		6 20.0	209°87'	6.4°/19.6	18
5 21	18 19.02	-25 35.7	1.044	1.965	16.8	18.3	5 21	18 14.84	- 3 44.8	2.417	3.271	11.1	20.5
5 31	18 14.24	-26 21.1	0.968	1.940	12.1	17.9	5 31	18 9.37	- 3 4.1	2.353	3.269	9.0	20.3
6 10	18 5.92	-27 8.4	0.911	1.915	6.6	17.5	6 10	18 2.61	- 2 35.1	2.312	3.267	7.2	20.2
6 20	17 55.08	-27 52.3	0.876	1.890	2.4	17.2	6 20	17 55.14	- 2 19.6	2.297	3.265	6.4	20.2
6 30	17 43.48	-28 27.7	0.862	1.867	7.1	17.4	6 30	17 47.66	- 2 19.0	2.308	3.263	7.3	20.2
7 10	17 33.24	-28 52.4	0.870	1.844	13.2	17.6	7 10	17 40.87	- 2 32.7	2.345	3.261	9.1	20.3
7 20	17 26.13	-29 7.7	0.896	1.823	18.8	17.8	7 20	17 35.34	- 2 59.1	2.406	3.259	11.3	20.5
7 30	17 23.33	-29 16.7	0.938	1.802	23.6	18.1	7 30	17 31.53	- 3 36.1	2.487	3.257	13.4	20.6
182689	2001 <i>VL</i> ₄₆		6 20.0	123°08'	0.4°/20.1	18	318434	2005 <i>CR</i> ₁₃		6 20.0	1°49'	0.4°/19.9	17
5 21	18 18.60	-25 45.8	2.683	3.566	9.2	19.9	5 21	18 17.90	-22 54.3	1.556	2.462	13.3	19.9
5 31	18 11.80	-25 28.6	2.627	3.582	6.4	19.8	5 31	18 12.23	-23 22.3	1.495	2.461	9.3	19.6
6 10	18 3.74	-25 8.4	2.597	3.597	3.3	19.6	6 10	18 4.33	-23 51.7	1.457	2.460	4.8	19.4
6 20	17 55.09	-24 45.2	2.596	3.612	0.4	19.3	6 20	17 55.15	-24 19.9	1.444	2.460	0.4	19.0
6 30	17 46.59	-24 19.6	2.624	3.626	3.2	19.6	6 30	17 45.89	-24 45.0	1.457	2.461	4.8	19.4
7 10	17 38.93	-23 52.9	2.681	3.640	6.2	19.8	7 10	17 37.81	-25 6.3	1.494	2.462	9.3	19.6
7 20	17 32.69	-23 26.5	2.765	3.654	8.9	20.0	7 20	17 31.87	-25 24.3	1.554	2.464	13.3	19.9
7 30	17 28.25	-23 2.0	2.871	3.667	11.2	20.2	7 30	17 28.73	-25 40.0	1.634	2.466	16.7	20.1
216770	2005 <i>VX</i> ₄		6 20.0	294°19'	0.3°/20.0	18	35141	1992 <i>SH</i> ₁		6 20.0	287°33'	2.9°/19.8	18
5 21	18 18.31	-22 27.6	2.178	3.069	10.7	20.7	5 21	18 22.04	-28 49.1	1.736	2.630	12.8	18.5
5 31	18 12.25	-22 31.3	2.076	3.034	7.5	20.4	5 31	18 15.42	-29 30.2	1.643	2.600	9.3	18.2
6 10	18 4.30	-22 35.2	1.998	2.999	3.9	20.2	6 10	18 6.19	-30 8.5	1.572	2.570	5.4	17.9
6 20	17 55.10	-22 38.4	1.947	2.963	0.3	19.8	6 20	17 55.16	-30 40.0	1.527	2.539	2.9	17.6
6 30	17 45.54	-22 40.3	1.924	2.927	4.1	20.0	6 30	17 43.55	-31 1.2	1.510	2.508	5.7	17.7
7 10	17 36.62	-22 41.1	1.929	2.891	8.0	20.2	7 10	17 32.81	-31 11.6	1.517	2.476	10.0	17.9
7 20	17 29.20	-22 41.5	1.958	2.854	11.7	20.3	7 20	17 24.19	-31 12.6	1.548	2.445	14.1	18.1
7 30	17 24.00	-22 42.9	2.009	2.817	14.8	20.5	7 30	17 18.61	-31 7.7	1.599	2.413	17.8	18.3
60706	2000 <i>GB</i> ₅₆		6 20.0	42°70'	0.5°/20.0	18	30447	2000 <i>NO</i> ₃		6 20.0	39°73'	1.9°/20.0	18
5 21	18 18.39	-24 1.5	1.819	2.717	12.0	19.0	5 21	18 17.10	-18 15.8	1.793	2.691	12.2	18.1
5 31	18 12.25	-24 16.7	1.760	2.722	8.4	18.8	5 31	18 11.28	-18 11.5	1.738	2.698	8.6	17.8
6 10	18 4.21	-24 31.2	1.725	2.727	4.3	18.5	6 10	18 3.69	-18 11.2	1.707	2.706	4.7	17.6
6 20	17 55.11	-24 43.3	1.716	2.732	0.5	18.3	6 20	17 55.15	-18 14.5	1.701	2.715	1.9	17.5
6 30	17 46.03	-24 52.0	1.734	2.737	4.3	18.6	6 30	17 46.68	-18 21.4	1.722	2.723	4.7	17.7
7 10	17 38.04	-24 57.6	1.778	2.743	8.3	18.8	7 10	17 39.26	-18 31.5	1.769	2.732	8.5	17.9
7 20	17 31.96	-25 1.1	1.846	2.748	11.9	19.0	7 20	17 33.66	-18 44.8	1.839	2.741	12.0	18.1
7 30	17 28.35	-25 3.8	1.934	2.754	14.9	19.3	7 30	17 30.40	-19 1.0	1.930	2.751	14.9	18.4
491792	2012 <i>XX</i> ₁₄		6 20.0	269°03'	2.6°/20.0	18	251735	1998 <i>MO</i> ₄		6 20.0	301°02'	3.5°/20.4	18
5 21	18 20.23	-30 11.4	2.011	2.900	11.5	22.1	5 21	18 19.40	-34 9.3	2.119	3.001	11.3	20.1
5 31	18 13.67	-30 30.4	1.929	2.884	8.3	21.9	5 31	18 13.01	-34 7.5	2.034	2.983	8.3	19.9
6 10	18 5.03	-30 43.8	1.872	2.868	4.9	21.7	6 10	18 4.66	-33 56.2	1.974	2.964	5.3	19.7
6 20	17 55.12	-30 49.2	1.841	2.851	2.6	21.5	6 20	17 55.16	-33 33.2	1.940	2.946	3.5	19.5
6 30	17 45.02	-30 45.1	1.837	2.835	4.9	21.6	6 30	17 45.56	-32 58.3	1.933	2.928	5.1	19.6
7 10	17 35.86	-30 32.3	1.860	2.818	8.5	21.8	7 10	17 36.95	-32 13.6	1.953	2.909	8.3	19.7
7 20	17 28.58	-30 13.3	1.907	2.801	12.0	22.0	7 20	17 30.20	-31 22.6	1.998	2.891	11.6	19.9
7 30	17 23.85	-29 51.0	1.975	2.784	15.0	22.1	7 30	17 25.92	-30 29.5	2.063	2.873	14.4	20.1
72487	2001 <i>DA</i> ₄₃		6 20.0	93°35'	3.8°/20.1	18	2028	<i>Janequeo</i>		6 20.0	358°88'	3.5°/19.5	18
5 21	18 17.72	-13 20.5	1.829	2.717	12.5	19.7	5 21	18 18.86	-19 30.4	1.125	2.042	16.3	17.5
5 31	18 11.70	-13 10.5	1.767	2.719	9.1	19.5	5 31	18 13.25	-18 27.0	1.071	2.039	11.6	17.2
6 10	18 3.91	-13 8.5	1.729	2.721	5.7	19.3	6 10	18 4.96	-17 24.6	1.036	2.038	6.6	16.9
6 20	17 55.12	-13 15.0	1.716	2.722	3.8	19.2	6 20	17 55.16	-16 26.5	1.025	2.037	3.5	16.7
6 30	17 46.33	-13 29.9	1.730	2.724	5.7	19.3	6 30	17 45.45	-15 36.9	1.036	2.037	7.0	16.9
7 10	17 38.51	-13 52.4	1.770	2.726	9.1	19.5	7 10	17 37.37	-14 59.1	1.070	2.038	12.1	17.2
7 20	17 32.45	-14 21.3	1.833	2.727	12.4	19.7	7 20	17 32.00	-14 34.9	1.124	2.040	16.7	17.5
7 30	17 28.70	-14 55.3	1.917	2.729	15.3	19.9	7 30	17 29.98	-14 24.0	1.195	2.042	20.6	17.8
503927	2003 <i>BN</i> ₉₃		6 20.0	124°78'	4.0°/20.1	18	388844						

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6 20.0

6 20.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
46176	2001 <i>FX</i> ₉₄		6 20.0	44° 97'	3° 2'/19.8	18	279436	2010 <i>NN</i> ₁₁₂		6 20.0	341° 36'	3° 0'/19.8	18
5 21	18 20.69	-29 52.7	1.786	2.680	12.5	19.2	5 21	18 18.40	-30 16.0	2.089	2.979	11.1	19.9
5 31	18 14.08	-30 40.2	1.726	2.682	9.0	19.0	5 31	18 12.30	-30 58.4	2.022	2.976	8.0	19.7
6 10	18 5.27	-31 22.7	1.689	2.684	5.3	18.8	6 10	18 4.31	-31 36.2	1.979	2.974	4.8	19.5
6 20	17 55.17	-31 56.5	1.678	2.687	3.2	18.7	6 20	17 55.20	-32 6.4	1.963	2.971	3.0	19.3
6 30	17 44.99	-32 19.0	1.693	2.689	5.5	18.8	6 30	17 45.98	-32 26.9	1.974	2.969	4.9	19.5
7 10	17 35.97	-32 30.2	1.735	2.692	9.1	19.1	7 10	17 37.69	-32 37.7	2.012	2.967	8.1	19.6
7 20	17 29.06	-32 32.2	1.800	2.695	12.5	19.3	7 20	17 31.18	-32 40.3	2.074	2.966	11.3	19.8
7 30	17 24.93	-32 28.0	1.885	2.697	15.5	19.5	7 30	17 27.05	-32 37.2	2.156	2.964	14.0	20.0
259946	2004 <i>ER</i> ₆₂		6 20.0	155° 45'	3° 1'/19.9	17	84971	2003 <i>YZ</i> ₂₃		6 20.0	143° 63'	5° 1'/20.3	17
5 21	18 20.55	-16 15.1	1.756	2.646	12.8	21.0	5 21	18 26.26	-36 33.0	1.815	2.691	13.2	19.7
5 31	18 13.70	-15 51.8	1.696	2.651	9.2	20.8	5 31	18 17.91	-36 59.4	1.759	2.700	9.9	19.5
6 10	18 4.95	-15 33.3	1.660	2.655	5.4	20.6	6 10	18 7.19	-37 13.3	1.726	2.709	6.8	19.4
6 20	17 55.17	-15 20.4	1.650	2.660	3.1	20.4	6 20	17 55.22	-37 10.9	1.719	2.717	5.1	19.3
6 30	17 45.44	-15 13.9	1.667	2.663	5.5	20.6	6 30	17 43.40	-36 51.3	1.739	2.725	6.6	19.4
7 10	17 36.83	-15 14.0	1.710	2.667	9.2	20.8	7 10	17 33.06	-36 17.1	1.785	2.732	9.6	19.6
7 20	17 30.16	-15 20.8	1.776	2.669	12.8	21.0	7 20	17 25.20	-35 33.1	1.855	2.739	12.8	19.8
7 30	17 25.97	-15 33.6	1.863	2.672	15.8	21.2	7 30	17 20.38	-34 44.8	1.945	2.745	15.6	20.0
501628	2014 <i>SU</i> ₂₀₆		6 20.0	313° 04'	4° 6'/19.9	17	159903	2004 <i>VS</i> ₆		6 20.0	314° 72'	0° 0'/20.0	18
5 21	18 18.23	-15 10.3	1.164	2.075	16.3	21.2	5 21	18 18.85	-22 23.1	1.613	2.516	13.1	19.4
5 31	18 13.03	-14 44.0	1.094	2.058	12.0	20.9	5 31	18 12.91	-22 41.0	1.544	2.508	9.2	19.2
6 10	18 5.01	-14 26.2	1.044	2.042	7.3	20.6	6 10	18 4.74	-23 0.2	1.498	2.501	4.8	18.9
6 20	17 55.17	-14 18.8	1.016	2.026	4.6	20.4	6 20	17 55.23	-23 19.1	1.477	2.494	0.1	18.5
6 30	17 45.01	-14 23.1	1.012	2.011	7.5	20.5	6 30	17 45.56	-23 36.0	1.483	2.487	4.8	18.8
7 10	17 36.15	-14 39.1	1.029	1.996	12.5	20.7	7 10	17 37.00	-23 50.7	1.513	2.480	9.3	19.1
7 20	17 29.89	-15 5.7	1.066	1.982	17.4	20.9	7 20	17 30.53	-24 3.7	1.567	2.474	13.3	19.3
7 30	17 27.08	-15 40.9	1.119	1.969	21.6	21.2	7 30	17 26.84	-24 16.0	1.640	2.468	16.8	19.5
390272	2012 <i>XN</i> ₁₄₈		6 20.0	124° 58'	1° 2'/20.0	17	314427	2005 <i>UA</i> ₄₄₆		6 20.0	286° 47'	0° 6'/20.0	18
5 21	18 17.68	-20 6.6	2.043	2.936	11.2	21.3	5 21	18 16.89	-21 40.0	2.202	3.094	10.5	21.2
5 31	18 11.59	-20 3.4	1.979	2.938	7.8	21.1	5 31	18 11.13	-21 41.0	2.117	3.076	7.4	21.0
6 10	18 3.84	-20 2.1	1.940	2.940	4.1	20.9	6 10	18 3.69	-21 42.6	2.057	3.058	3.9	20.8
6 20	17 55.17	-20 2.2	1.927	2.942	1.2	20.6	6 20	17 55.22	-21 44.3	2.024	3.040	0.6	20.5
6 30	17 46.51	-20 3.6	1.942	2.944	4.1	20.9	6 30	17 46.59	-21 45.7	2.019	3.022	3.9	20.7
7 10	17 38.77	-20 6.5	1.984	2.946	7.8	21.1	7 10	17 38.70	-21 47.1	2.041	3.003	7.6	20.9
7 20	17 32.69	-20 11.3	2.050	2.947	11.1	21.3	7 20	17 32.31	-21 49.1	2.088	2.985	11.0	21.1
7 30	17 28.78	-20 18.3	2.137	2.949	13.9	21.5	7 30	17 28.01	-21 52.5	2.156	2.967	13.9	21.2
426696	2013 <i>TW</i> ₂₈		6 20.0	288° 26'	4° 1'/19.8	17	234269	2000 <i>WW</i> ₄		6 20.0	198° 50'	2° 4'/20.3	18
5 21	18 18.80	-14 57.4	1.528	2.425	14.0	21.0	5 21	18 22.46	-31 50.9	2.493	3.368	10.1	21.4
5 31	18 12.89	-14 26.1	1.453	2.410	10.2	20.8	5 31	18 14.79	-31 47.8	2.417	3.364	7.3	21.2
6 10	18 4.73	-14 1.2	1.401	2.396	6.3	20.5	6 10	18 5.46	-31 37.3	2.367	3.360	4.3	21.0
6 20	17 55.18	-13 44.1	1.373	2.381	4.1	20.3	6 20	17 55.24	-31 18.0	2.345	3.354	2.4	20.8
6 30	17 45.44	-13 36.5	1.371	2.367	6.6	20.5	6 30	17 45.03	-30 50.0	2.352	3.348	4.1	21.0
7 10	17 36.75	-13 38.9	1.394	2.352	10.7	20.7	7 10	17 35.75	-30 15.0	2.387	3.341	7.2	21.1
7 20	17 30.15	-13 50.9	1.438	2.338	14.8	20.9	7 20	17 28.13	-29 35.6	2.449	3.333	10.1	21.3
7 30	17 26.34	-14 11.5	1.501	2.324	18.3	21.1	7 30	17 22.69	-28 55.1	2.534	3.325	12.6	21.5
186536	2002 <i>VQ</i> ₁₀₅		6 20.0	280° 51'	3° 7'/20.0	18	175882	1999 <i>VG</i> ₁₉₁		6 20.0	190° 67'	2° 5'/19.9	17
5 21	18 22.24	-31 23.0	1.556	2.452	13.9	20.1	5 21	18 23.20	-27 52.5	1.712	2.605	13.0	20.3
5 31	18 15.56	-31 48.8	1.481	2.438	10.1	19.8	5 31	18 15.93	-28 35.3	1.647	2.605	9.2	20.1
6 10	18 6.21	-32 7.0	1.429	2.424	6.1	19.6	6 10	18 6.29	-29 14.8	1.605	2.604	5.2	19.8
6 20	17 55.19	-32 13.6	1.401	2.410	3.7	19.4	6 20	17 55.24	-29 47.0	1.590	2.602	2.5	19.7
6 30	17 43.93	-32 6.7	1.399	2.396	6.2	19.5	6 30	17 44.05	-30 9.3	1.602	2.601	5.3	19.8
7 10	17 33.95	-31 47.6	1.422	2.382	10.4	19.7	7 10	17 34.06	-30 21.8	1.639	2.598	9.4	20.1
7 20	17 26.44	-31 19.8	1.467	2.368	14.4	19.9	7 20	17 26.31	-30 26.1	1.700	2.596	13.1	20.3
7 30	17 22.19	-30 48.2	1.531	2.355	18.0	20.1	7 30	17 21.49	-30 25.4	1.782	2.593	16.3	20.5
162461	2000 <i>HS</i> ₉₄		6 20.0	338° 98'	4° 0'/19.6	17	181442	2006 <i>SX</i> ₃₉₁		6 20.0	200° 40'	4° 5'/19.9	18
5 21	18 15.13	-18 27.5	0.947	1.875	17.5	19.3	5 21	18 15.73	-7 46.8	2.767	3.627	9.7	21.4
5 31	18 11.17	-17 37.5	0.886	1.860	12.6	18.9	5 31	18 9.91	-7 29.1	2.694	3.623	7.4	21.3
6 10	18 4.14	-16 50.7	0.843	1.846	7.3	18.6	6 10	18 2.91	-7 19.6	2.647	3.619	5.4	21.1
6 20	17 55.19	-16 10.3	0.821	1.833	4.0	18.4	6 20	17 55.23	-7 19.5	2.627	3.614	4.5	21.1
6 30	17 46.02	-15 39.8	0.819	1.822	7.8	18.5	6 30	17 47.52	-7 29.0	2.635	3.609	5.4	21.1
7 10	17 38.44	-15 22.0	0.838	1.813	13.4	18.8	7 10	17 40.40	-7 47.7	2.671	3.603	7.5	21.3
7 20	17 33.80	-15 17.8	0.874	1.805	18.7	19.0	7 20	17 34.42	-8 14.5	2.732	3.597	9.8	21.4
7 30	17 32.94	-15 26.2	0.925	1.798	23.2	19.3	7 30	17 30.00	-8 47.9	2.815	3.590	11.8	21.5
510382	2011 <i>UL</i> ₅₂		6 20.0	153° 18'	1° 9'/19.9	18	233324	2006 <i>BP</i> ₂₁₉		6 20.0	161° 01'	3° 6'/20.3	18
5 21	18 18.41	-29 1.9	2.782	3.663	9.0	22.6	5 21	18 19.06	-11 56.0	2.148	3.024	11.4	20.8
5 31	18 11.85	-29 30.9	2.718	3.669	6.4	22.5	5 31	18 12.46	-12 0.8	2.084	3.029	8.4	20.6
6 10	18 3.91	-29 56.2	2.680	3.676	3.6	22.3	6 10	18 4.29	-12 14.0	2.045	3.034	5.4	20.4
6 20	17 55.19	-30 16.0	2.671	3.682	1.9	22.2	6 20	17 55.24	-12 35.3	2.034	3.038	3.6	20.3
6 30	17 46.46	-30 29.3	2.691	3.688	3.6	22.3	6 30	17 46.18	-13 4.2	2.050	3.042	5.2	20.4
7 10	17 38.47	-30 36.3	2.739	3.693	6.3	22.5	7 10	17 37.98	-13 39.4	2.094	3.045	8.2	20.6
7 20	17 31.84	-30 37.9	2.814	3.698	8.9	22.7	7 20	17 31.32	-14 19.2	2.163	3.048	11.2	20.8
7 30	17 27.03	-30 35.9	2.911	3.702	11.1	22.9	7 30	17 26.73	-15 2.4	2.253	3.050	13.8	21.0
480596	2015 <i>MD</i> ₈₇		6 20.0	229° 85									

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6 20.0

6 20.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
122731	2000 SA ₄₆		6 20.0 289°13	2°5/20.5	18		24217	Paulroeder		6 20.1 291°96	1°3/19.9	18	
5 21	18 22.56	-31 41.6	1.666	2.558	13.3	19.5	5 21	18 18.40	-20 39.9	1.759	2.657	12.4	18.8
5 31	18 15.48	-31 14.0	1.590	2.547	9.6	19.3	5 31	18 12.47	-20 25.6	1.682	2.644	8.8	18.5
6 10	18 6.03	-30 35.2	1.538	2.535	5.5	19.0	6 10	18 4.50	-20 12.3	1.629	2.630	4.7	18.3
6 20	17 55.26	-29 44.0	1.511	2.524	2.5	18.8	6 20	17 55.30	-20 0.0	1.601	2.616	1.3	18.0
6 30	17 44.49	-28 42.0	1.512	2.513	5.2	18.9	6 30	17 45.96	-19 49.2	1.600	2.603	4.7	18.2
7 10	17 35.07	-27 33.1	1.538	2.502	9.4	19.2	7 10	17 37.60	-19 40.6	1.625	2.589	9.0	18.4
7 20	17 27.99	-26 22.9	1.588	2.491	13.5	19.4	7 20	17 31.12	-19 35.3	1.673	2.576	12.9	18.6
7 30	17 23.88	-25 16.1	1.658	2.480	16.9	19.6	7 30	17 27.19	-19 34.2	1.741	2.563	16.2	18.8
296660	2009 ST ₁₄₉		6 20.0 87°75	3°2/19.8	18		192898	1999 XB ₁₄₅		6 20.1 306°24	2°5/19.8	17	
5 21	18 14.81	-13 41.0	2.520	3.401	9.8	20.4	5 21	18 17.98	-18 47.7	1.644	2.544	13.0	19.9
5 31	18 9.32	-13 15.9	2.459	3.407	7.1	20.2	5 31	18 12.24	-18 16.5	1.569	2.530	9.3	19.6
6 10	18 2.61	-12 56.0	2.423	3.412	4.5	20.1	6 10	18 4.40	-17 47.2	1.517	2.517	5.2	19.3
6 20	17 55.25	-12 42.0	2.414	3.418	3.2	20.0	6 20	17 55.31	-17 21.1	1.490	2.503	2.5	19.1
6 30	17 47.92	-12 34.8	2.433	3.423	4.6	20.1	6 30	17 46.08	-16 59.4	1.490	2.490	5.4	19.3
7 10	17 41.31	-12 34.3	2.480	3.429	7.2	20.3	7 10	17 37.89	-16 43.6	1.514	2.477	9.7	19.5
7 20	17 35.97	-12 40.3	2.551	3.434	9.7	20.4	7 20	17 31.67	-16 34.6	1.562	2.465	13.6	19.7
7 30	17 32.30	-12 52.1	2.644	3.439	12.0	20.6	7 30	17 28.07	-16 32.8	1.628	2.453	17.1	19.9
341233	2007 RJ ₁₆₂		6 20.0 312°84	3°7/20.2	17		237995	2002 SX ₆₅		6 20.1 304°88	0°1/20.1	18	
5 21	18 19.98	-32 16.2	1.669	2.563	13.1	20.5	5 21	18 18.45	-22 16.0	1.802	2.700	12.2	20.5
5 31	18 13.83	-32 33.1	1.595	2.550	9.6	20.3	5 31	18 12.48	-22 35.6	1.731	2.692	8.5	20.2
6 10	18 5.27	-32 41.4	1.543	2.538	5.9	20.0	6 10	18 4.50	-22 56.6	1.683	2.685	4.4	20.0
6 20	17 55.26	-32 38.2	1.517	2.525	3.7	19.9	6 20	17 55.31	-23 17.2	1.662	2.679	0.1	19.6
6 30	17 45.11	-32 22.0	1.517	2.513	5.9	20.0	6 30	17 45.99	-23 36.1	1.668	2.672	4.4	19.9
7 10	17 36.16	-31 54.7	1.541	2.502	9.7	20.2	7 10	17 37.64	-23 52.9	1.700	2.665	8.6	20.2
7 20	17 29.48	-31 19.9	1.588	2.490	13.5	20.4	7 20	17 31.17	-24 7.8	1.755	2.659	12.4	20.4
7 30	17 25.78	-30 41.9	1.655	2.480	16.8	20.6	7 30	17 27.22	-24 21.7	1.831	2.652	15.6	20.6
369510	2010 VB ₁₁₆		6 20.1 173°93	2°7/20.1	17		239589	2008 UW ₃₂		6 20.1 38°93	0°3/20.0	17	
5 21	18 23.91	-30 31.9	1.986	2.869	11.9	21.9	5 21	18 21.56	-22 26.1	1.078	1.995	16.9	20.2
5 31	18 16.13	-30 51.5	1.921	2.873	8.5	21.7	5 31	18 15.36	-22 57.5	1.032	2.002	11.8	19.9
6 10	18 6.28	-31 4.4	1.880	2.875	5.0	21.5	6 10	18 6.18	-23 31.2	1.006	2.010	6.1	19.6
6 20	17 55.29	-31 8.2	1.867	2.877	2.7	21.3	6 20	17 55.32	-24 3.5	1.003	2.019	0.3	19.2
6 30	17 44.30	-31 1.7	1.881	2.878	4.9	21.5	6 30	17 44.54	-24 31.6	1.023	2.028	6.0	19.7
7 10	17 34.47	-30 46.2	1.923	2.879	8.4	21.7	7 10	17 35.57	-24 54.6	1.065	2.038	11.5	20.0
7 20	17 26.70	-30 24.6	1.989	2.879	11.8	21.9	7 20	17 29.61	-25 13.4	1.127	2.048	16.3	20.3
7 30	17 21.56	-30 0.3	2.077	2.878	14.6	22.1	7 30	17 27.32	-25 29.6	1.207	2.058	20.2	20.6
322394	2011 QU ₅₈		6 20.1 256°50	0°9/20.1	17		254232	2004 RM ₁₁₇		6 20.1 270°22	0°8/20.0	18	
5 21	18 18.75	-25 49.2	2.072	2.965	11.1	21.1	5 21	18 16.46	-20 55.1	2.349	3.239	10.0	21.0
5 31	18 12.48	-25 57.8	1.999	2.958	7.8	20.9	5 31	18 10.72	-20 52.3	2.270	3.228	7.0	20.7
6 10	18 4.41	-26 3.9	1.949	2.950	4.1	20.7	6 10	18 3.46	-20 50.5	2.217	3.218	3.7	20.5
6 20	17 55.28	-26 6.3	1.927	2.942	0.9	20.4	6 20	17 55.31	-20 49.2	2.191	3.207	0.8	20.3
6 30	17 46.06	-26 4.1	1.932	2.935	4.1	20.6	6 30	17 47.08	-20 48.5	2.194	3.196	3.7	20.5
7 10	17 37.75	-25 58.1	1.964	2.927	7.8	20.9	7 10	17 39.57	-20 48.5	2.224	3.185	7.1	20.7
7 20	17 31.16	-25 49.7	2.021	2.919	11.2	21.0	7 20	17 33.48	-20 49.7	2.279	3.174	10.2	20.9
7 30	17 26.87	-25 40.7	2.099	2.911	14.2	21.2	7 30	17 29.32	-20 52.9	2.356	3.163	12.9	21.0
301426	2009 DX ₅₈		6 20.1 312°18	0°0/20.0	18		215860	2005 EQ ₇₁		6 20.1 123°29	1°0/20.0	17	
5 21	18 17.87	-22 45.1	1.915	2.812	11.6	20.6	5 21	18 23.61	-24 40.0	1.575	2.472	13.7	20.6
5 31	18 11.95	-22 56.9	1.846	2.807	8.1	20.3	5 31	18 16.15	-25 9.1	1.522	2.482	9.6	20.4
6 10	18 4.16	-23 9.1	1.801	2.802	4.2	20.1	6 10	18 6.38	-25 36.9	1.491	2.493	5.0	20.2
6 20	17 55.28	-23 20.4	1.782	2.798	0.0	19.7	6 20	17 55.33	-26 0.4	1.487	2.503	1.0	19.9
6 30	17 46.32	-23 29.9	1.790	2.793	4.2	20.1	6 30	17 44.34	-26 17.7	1.509	2.512	4.9	20.2
7 10	17 38.31	-23 37.7	1.824	2.789	8.2	20.3	7 10	17 34.73	-26 29.0	1.557	2.521	9.4	20.5
7 20	17 32.07	-23 44.3	1.883	2.785	11.7	20.5	7 20	17 27.48	-26 35.8	1.629	2.530	13.3	20.7
7 30	17 28.21	-23 50.9	1.962	2.781	14.8	20.7	7 30	17 23.19	-26 40.2	1.720	2.538	16.5	21.0
218922	2007 TA ₃₆₁		6 20.1 144°64	3°9/19.9	18		395656	2011 WR ₅₇		6 20.1 52°35	1°9/19.9	18	
5 21	18 16.78	-10 25.3	2.614	3.482	9.9	21.2	5 21	18 16.47	-18 35.0	2.099	2.992	10.9	20.7
5 31	18 10.62	-10 3.2	2.555	3.493	7.4	21.1	5 31	18 10.70	-18 19.3	2.041	2.999	7.7	20.5
6 10	18 3.27	-9 48.3	2.522	3.502	5.1	21.0	6 10	18 3.41	-18 6.3	2.008	3.006	4.2	20.3
6 20	17 55.29	-9 41.3	2.516	3.512	3.9	20.9	6 20	17 55.32	-17 56.2	2.001	3.014	1.9	20.1
6 30	17 47.36	-9 42.7	2.539	3.521	5.1	21.0	6 30	17 47.29	-17 49.4	2.022	3.022	4.2	20.3
7 10	17 40.16	-9 52.1	2.589	3.529	7.4	21.1	7 10	17 40.17	-17 46.3	2.069	3.029	7.6	20.5
7 20	17 34.20	-10 8.9	2.665	3.537	9.8	21.3	7 20	17 34.62	-17 47.2	2.141	3.037	10.8	20.7
7 30	17 29.91	-10 31.7	2.763	3.544	11.9	21.5	7 30	17 31.11	-17 52.1	2.234	3.045	13.4	20.9
507154	2009 XO ₁₁		6 20.1 191°15	2°0/20.4	18		505757	2015 BJ ₁₂₆		6 20.1 327°49	2°1/20.2	17	
5 21	18 22.73	-30 30.0	1.966	2.852	11.9	21.0	5 21	18 17.71	-17 42.3	1.263	2.174	15.3	20.5
5 31	18 15.23	-30 7.5	1.897	2.851	8.5	20.7	5 31	18 12.59	-17 58.8	1.194	2.160	10.9	20.2
6 10	18 5.78	-29 36.6	1.853	2.850	4.7	20.5	6 10	18 4.81	-18 23.5	1.145	2.147	6.0	19.9
6 20	17 55.30	-28 56.5	1.836	2.849	2.0	20.3	6 20	17 55.33	-18 55.2	1.120	2.134	2.1	19.6
6 30	17 44.93	-28 8.4	1.847	2.847	4.5	20.5	6 30	17 45.54	-19 31.9	1.118	2.123	5.9	19.8
7 10	17 35.76	-27 15.2	1.885	2.845	8.2	20.7	7 10	17 36.97	-20 11.8	1.140	2.112	11.1	20.1
7 20	17 28.63	-26 20.8	1.948	2.843	11.7	20.9	7 20	17 30.84	-20 53.1	1.183	2.101	15.8	20.3
7 30	17 24.05	-25 28.9	2.032	2.841	14.7	21.1	7 30	17 28.01	-21 35.0	1.243	2.092	19.9	20.6
478595	2012 TP ₁₁₉		6 20.1 285°06	0°3/20.0	17		313126	2001 AL ₄₆		6 20.1 81°51	16°9/23.2	18	
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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
310635	2002 <i>CE</i> ₁₆₀		6 20.1 156°73	0°4/20.0	16		473020	2015 <i>HT</i> ₅₆		6 20.1 284°59	2°9/20.2	18	
5 21	18 23.51	-22 45.3	1.525	2.423	14.0	20.6	5 21	18 20.38	-31 10.2	1.865	2.756	12.2	21.0
5 31	18 16.22	-23 19.6	1.465	2.427	9.8	20.4	5 31	18 13.90	-31 22.0	1.791	2.746	8.8	20.8
6 10	18 6.50	-23 55.3	1.429	2.430	5.1	20.1	6 10	18 5.28	-31 26.5	1.740	2.736	5.2	20.5
6 20	17 55.35	-24 29.1	1.418	2.434	0.4	19.8	6 20	17 55.39	-31 21.4	1.716	2.726	2.9	20.4
6 30	17 44.13	-24 58.5	1.433	2.437	5.0	20.1	6 30	17 45.40	-31 5.8	1.718	2.716	5.1	20.5
7 10	17 34.23	-25 22.8	1.475	2.439	9.7	20.4	7 10	17 36.50	-30 41.2	1.746	2.706	8.8	20.7
7 20	17 26.71	-25 42.6	1.539	2.442	13.8	20.7	7 20	17 29.64	-30 10.7	1.797	2.696	12.4	20.9
7 30	17 22.25	-25 59.5	1.623	2.443	17.3	20.9	7 30	17 25.47	-29 37.8	1.870	2.686	15.5	21.1
258647	2002 <i>EU</i> ₅₁		6 20.1 90°33	1°6/20.1	17		472608	2015 <i>DH</i> ₁₅₆		6 20.1 84°47	4°5/20.3	17	
5 21	18 22.79	-19 41.6	1.397	2.298	14.8	20.9	5 21	18 18.99	-11 22.8	1.724	2.609	13.3	20.9
5 31	18 15.57	-19 39.7	1.351	2.314	10.4	20.6	5 31	18 12.64	-11 15.1	1.673	2.622	9.8	20.8
6 10	18 6.05	-19 41.0	1.328	2.329	5.5	20.4	6 10	18 4.50	-11 17.8	1.646	2.634	6.4	20.6
6 20	17 55.34	-19 44.7	1.330	2.345	1.6	20.2	6 20	17 55.41	-11 31.3	1.643	2.646	4.5	20.5
6 30	17 44.85	-19 50.3	1.357	2.360	5.3	20.5	6 30	17 46.41	-11 55.1	1.667	2.658	6.2	20.6
7 10	17 35.88	-19 57.8	1.409	2.375	10.0	20.8	7 10	17 38.51	-12 27.7	1.717	2.670	9.5	20.8
7 20	17 29.37	-20 7.8	1.483	2.389	14.0	21.0	7 20	17 32.48	-13 7.2	1.790	2.682	12.7	21.1
7 30	17 25.87	-20 20.5	1.577	2.404	17.4	21.3	7 30	17 28.85	-13 51.4	1.883	2.694	15.6	21.3
291982	2006 <i>QN</i> ₈₈		6 20.1 258°88	0°9/20.1	17		202629	2006 <i>HE</i> ₉₅		6 20.1 217°35	0°5/20.1	17	
5 21	18 21.52	-21 1.1	1.684	2.579	13.0	21.6	5 21	18 19.22	-21 7.8	1.979	2.872	11.5	20.5
5 31	18 14.84	-21 3.5	1.601	2.562	9.2	21.3	5 31	18 12.87	-21 23.3	1.910	2.869	8.1	20.3
6 10	18 5.83	-21 7.7	1.543	2.544	4.9	21.0	6 10	18 4.68	-21 40.6	1.865	2.866	4.2	20.0
6 20	17 55.35	-21 12.5	1.510	2.525	0.9	20.6	6 20	17 55.41	-21 58.3	1.846	2.862	0.5	19.7
6 30	17 44.57	-21 17.2	1.504	2.507	4.9	20.9	6 30	17 46.06	-22 15.5	1.856	2.859	4.1	20.0
7 10	17 34.78	-21 22.0	1.523	2.487	9.5	21.1	7 10	17 37.62	-22 31.7	1.892	2.855	8.0	20.2
7 20	17 27.04	-21 27.8	1.566	2.468	13.7	21.3	7 20	17 30.92	-22 47.0	1.952	2.851	11.5	20.4
7 30	17 22.11	-21 35.6	1.629	2.447	17.3	21.5	7 30	17 26.55	-23 2.3	2.034	2.847	14.5	20.6
316910	2000 <i>UY</i> ₁₇		6 20.1 274°33	0°5/20.0	18		369987	1998 <i>SA</i> ₅₁		6 20.1 296°13	1°1/20.1	16	
5 21	18 20.66	-23 41.0	1.838	2.732	12.1	20.9	5 21	18 14.80	-27 6.5	2.934	3.821	8.4	21.7
5 31	18 14.19	-24 4.1	1.750	2.710	8.6	20.7	5 31	18 9.46	-27 15.9	2.844	3.800	5.9	21.5
6 10	18 5.50	-24 27.8	1.686	2.688	4.5	20.4	6 10	18 2.82	-27 22.9	2.780	3.779	3.2	21.3
6 20	17 55.35	-24 49.9	1.649	2.665	0.5	20.0	6 20	17 55.40	-27 26.5	2.743	3.758	1.1	21.1
6 30	17 44.84	-25 8.4	1.639	2.642	4.6	20.3	6 30	17 47.85	-27 26.1	2.736	3.737	3.2	21.3
7 10	17 35.18	-25 23.0	1.655	2.618	8.9	20.5	7 10	17 40.86	-27 22.1	2.756	3.716	6.0	21.4
7 20	17 27.41	-25 34.4	1.695	2.595	12.9	20.7	7 20	17 35.02	-27 15.3	2.802	3.695	8.7	21.6
7 30	17 22.31	-25 43.9	1.756	2.571	16.4	20.9	7 30	17 30.80	-27 7.0	2.872	3.674	11.0	21.7
149151	2002 <i>EF</i> ₁₄₈		6 20.1 55°88	2°0/20.1	18		148110	1999 <i>RQ</i> ₂₀₀		6 20.1 213°04	9°7/20.9	18	
5 21	18 18.29	-28 37.1	2.089	2.981	11.0	20.2	5 21	18 30.58	-56 41.5	2.636	3.410	12.5	20.1
5 31	18 12.09	-28 56.0	2.034	2.991	7.8	20.0	5 31	18 21.15	-57 23.8	2.572	3.406	11.2	20.0
6 10	18 4.17	-29 10.4	2.002	3.001	4.3	19.8	6 10	18 9.03	-57 45.6	2.530	3.403	10.1	19.9
6 20	17 55.35	-29 18.6	1.998	3.010	2.0	19.6	6 20	17 55.44	-57 42.2	2.510	3.398	9.7	19.9
6 30	17 46.58	-29 19.7	2.021	3.021	4.3	19.8	6 30	17 41.97	-57 11.7	2.514	3.394	10.0	19.9
7 10	17 38.84	-29 14.6	2.070	3.031	7.6	20.0	7 10	17 30.16	-56 16.7	2.542	3.390	11.0	20.0
7 20	17 32.84	-29 4.9	2.144	3.041	10.7	20.2	7 20	17 21.11	-55 2.5	2.591	3.385	12.3	20.1
7 30	17 29.11	-28 52.8	2.240	3.052	13.4	20.4	7 30	17 15.42	-53 35.8	2.661	3.380	13.7	20.2
475069	2005 <i>UP</i> ₁₃₃		6 20.1 288°53	5°5/19.9	18		279330	2009 <i>XR</i> ₁₉		6 20.1 205°13	0°2/20.1	18	
5 21	18 21.01	-38 29.9	2.119	2.990	11.7	21.0	5 21	18 19.98	-22 23.0	1.918	2.811	11.8	21.3
5 31	18 14.35	-39 6.7	2.042	2.977	9.1	20.8	5 31	18 13.42	-22 30.4	1.849	2.809	8.2	21.1
6 10	18 5.52	-39 32.4	1.989	2.963	6.7	20.7	6 10	18 4.97	-22 38.2	1.805	2.806	4.3	20.8
6 20	17 55.37	-39 43.4	1.961	2.950	5.5	20.6	6 20	17 55.42	-22 45.1	1.787	2.803	0.2	20.5
6 30	17 45.04	-39 37.5	1.960	2.937	6.7	20.6	6 30	17 45.81	-22 50.5	1.797	2.800	4.2	20.8
7 10	17 35.75	-39 15.9	1.984	2.924	9.3	20.7	7 10	17 37.19	-22 54.7	1.834	2.797	8.2	21.0
7 20	17 28.48	-38 41.9	2.032	2.910	12.1	20.9	7 20	17 30.40	-22 58.3	1.895	2.794	11.8	21.2
7 30	17 23.89	-38 0.3	2.101	2.897	14.7	21.0	7 30	17 26.03	-23 2.5	1.976	2.790	14.9	21.4
491599	2012 <i>SK</i> ₆₃		6 20.1 152°56	18°2/17.3	18		428172	2006 <i>SS</i> ₄₁₁		6 20.1 241°96	0°4/20.1	17	
5 21	18 21.03	+11 2.5	1.243	2.061	21.5	21.0	5 21	18 21.85	-22 3.2	1.796	2.689	12.5	22.1
5 31	18 14.58	+13 23.8	1.205	2.063	19.7	20.9	5 31	18 14.96	-22 10.1	1.716	2.675	8.8	21.8
6 10	18 5.66	+15 10.3	1.184	2.065	18.5	20.8	6 10	18 5.88	-22 17.8	1.660	2.661	4.6	21.5
6 20	17 55.37	+16 12.6	1.180	2.067	18.3	20.8	6 20	17 55.43	-22 24.8	1.630	2.647	0.4	21.2
6 30	17 45.10	+16 26.1	1.195	2.069	19.0	20.8	6 30	17 44.76	-22 30.4	1.628	2.631	4.6	21.5
7 10	17 36.25	+15 53.0	1.226	2.070	20.5	20.9	7 10	17 35.06	-22 34.6	1.653	2.616	9.0	21.7
7 20	17 29.86	+14 40.8	1.273	2.071	22.3	21.1	7 20	17 27.32	-22 38.5	1.701	2.599	13.0	21.9
7 30	17 26.57	+12 59.2	1.333	2.072	24.2	21.2	7 30	17 22.26	-22 43.4	1.769	2.582	16.3	22.1
368905	2006 <i>TY</i> ₂₁		6 20.1 310°26	0°9/20.1	17		426082	2012 <i>DG</i> ₃₁		6 20.1 154°24	25°5/29.4	17	
5 21	18 18.87	-21 28.5	1.266	2.178	15.2	20.7	5 21	18 35.87	+20 23.7	0.668	1.485	34.9	21.5
5 31	18 13.63	-21 29.0	1.183	2.151	10.8	20.4	5 31	18 26.25	+20 49.0	0.632	1.495	31.8	21.3
6 10	18 5.49	-21 31.7	1.121	2.125	5.8	20.0	6 10	18 12.18	+20 1.9	0.606	1.504	28.7	21.2
6 20	17 55.37	-21 35.4	1.083	2.099	0.9	19.6	6 20	17 55.48	+17 49.2	0.591	1.511	26.3	21.0
6 30	17 44.72	-21 39.5	1.068	2.073	5.9	19.9	6 30	17 38.84	+14 10.6	0.590	1.517	25.5	21.0
7 10	17 35.21	-21 44.1	1.076	2.048	11.5	20.1	7 10	17 24.97	+9 25.7	0.605	1.521	26.6	21.1
7 20	17 28.22	-21 50.4	1.105	2.024	16.7	20.3	7 20	17 15.61	+4 5.6	0.637	1.524	29.1	21.3
7 30	17 24.74	-21 59.4	1.151	2.000	21.1	20.5	7 30	17 11.55	-1 19.3	0.683	1.525	32.3	21.6
504337	2007 <i>TS</i> ₁₆₉		6 20.1 295°79	2°3/19.9									

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
22094	2000 AQ ₂₀₀		6 20.1 257°11	7°1/19.7	18		131874	2002 AP ₁₆₀		6 20.1 162°09	4°0/20.2	17	
5 21	18 14.78	-1 9.7	2.475	3.317	11.3	18.7	5 21	18 21.18	-14 11.7	1.458	2.352	14.7	20.0
5 31	18 9.44	-0 33.1	2.402	3.307	9.3	18.5	5 31	18 14.56	-13 59.9	1.398	2.354	10.7	19.8
6 10	18 2.81	-0 9.5	2.354	3.298	7.7	18.4	6 10	18 5.67	-13 57.0	1.361	2.356	6.5	19.5
6 20	17 55.42	-0 1.0	2.330	3.288	7.1	18.3	6 20	17 55.47	-14 3.5	1.349	2.357	4.0	19.4
6 30	17 47.96	-0 8.7	2.333	3.278	7.8	18.4	6 30	17 45.25	-14 19.2	1.362	2.358	6.4	19.5
7 10	17 41.13	-0 32.1	2.361	3.268	9.5	18.5	7 10	17 36.29	-14 43.3	1.399	2.359	10.6	19.8
7 20	17 35.50	-1 9.4	2.412	3.258	11.5	18.6	7 20	17 29.58	-15 14.2	1.459	2.360	14.5	20.0
7 30	17 31.56	-1 57.7	2.485	3.248	13.5	18.7	7 30	17 25.74	-15 50.4	1.538	2.361	18.0	20.2
67103	2000 AC ₈₀		6 20.1 225°39	3°0/20.2	18		399204	2014 GO ₂₇		6 20.1 321°46	0°8/20.1	16	
5 21	18 18.46	-13 42.7	2.338	3.216	10.6	20.1	5 21	18 16.34	-21 7.6	1.859	2.759	11.8	20.6
5 31	18 12.12	-13 44.3	2.258	3.206	7.7	19.9	5 31	18 11.02	-21 7.5	1.781	2.744	8.3	20.3
6 10	18 4.24	-13 52.2	2.204	3.195	4.7	19.7	6 10	18 3.82	-21 8.9	1.727	2.729	4.4	20.1
6 20	17 55.44	-14 6.6	2.176	3.183	3.0	19.6	6 20	17 55.46	-21 11.1	1.699	2.714	0.8	19.8
6 30	17 46.50	-14 26.9	2.178	3.172	4.7	19.7	6 30	17 46.93	-21 14.1	1.697	2.700	4.4	20.0
7 10	17 38.25	-14 52.6	2.207	3.159	7.7	19.9	7 10	17 39.29	-21 17.8	1.721	2.687	8.4	20.2
7 20	17 31.39	-15 22.7	2.261	3.146	10.7	20.0	7 20	17 33.39	-21 22.7	1.768	2.674	12.2	20.4
7 30	17 26.46	-15 56.3	2.338	3.133	13.4	20.2	7 30	17 29.85	-21 29.6	1.836	2.661	15.4	20.6
179391	2001 YC ₉₈		6 20.1 108°48	1°9/19.9	18		171491	1996 TT ₄₄		6 20.1 285°30	0°8/20.1	17	
5 21	18 17.30	-18 3.6	2.301	3.188	10.3	20.8	5 21	18 21.78	-25 11.2	1.431	2.335	14.3	21.0
5 31	18 11.18	-17 46.4	2.243	3.198	7.3	20.6	5 31	18 15.45	-25 14.1	1.350	2.314	10.2	20.7
6 10	18 3.67	-17 31.9	2.211	3.209	4.1	20.4	6 10	18 6.36	-25 14.5	1.291	2.293	5.4	20.4
6 20	17 55.44	-17 20.3	2.207	3.219	1.9	20.3	6 20	17 55.48	-25 10.2	1.257	2.273	0.8	20.0
6 30	17 47.29	-17 12.2	2.230	3.229	4.1	20.5	6 30	17 44.22	-25 0.5	1.247	2.251	5.4	20.3
7 10	17 39.99	-17 7.8	2.281	3.239	7.2	20.7	7 10	17 34.15	-24 46.4	1.262	2.230	10.6	20.5
7 20	17 34.16	-17 7.4	2.357	3.248	10.1	20.9	7 20	17 26.53	-24 30.6	1.299	2.209	15.3	20.7
7 30	17 30.24	-17 11.1	2.455	3.258	12.6	21.1	7 30	17 22.22	-24 15.9	1.355	2.188	19.4	20.9
225094	2008 CU ₂₅		6 20.1 37°95	4°0/20.1	17		521386	2015 MT ₁₄₂		6 20.1 253°14	0°4/20.1	18	
5 21	18 18.97	-15 16.6	1.265	2.171	15.6	19.8	5 21	18 17.21	-21 41.5	2.435	3.323	9.8	21.8
5 31	18 13.10	-14 56.5	1.219	2.181	11.3	19.6	5 31	18 11.28	-21 48.8	2.354	3.311	6.9	21.6
6 10	18 4.89	-14 45.1	1.194	2.192	6.7	19.4	6 10	18 3.83	-21 56.9	2.298	3.299	3.6	21.3
6 20	17 55.45	-14 43.2	1.193	2.203	4.0	19.3	6 20	17 55.47	-22 5.0	2.270	3.286	0.4	21.1
6 30	17 46.15	-14 51.0	1.215	2.214	6.6	19.4	6 30	17 47.00	-22 12.5	2.271	3.274	3.5	21.3
7 10	17 38.33	-15 7.9	1.261	2.226	10.9	19.7	7 10	17 39.21	-22 19.5	2.300	3.261	6.9	21.5
7 20	17 32.93	-15 32.3	1.328	2.239	15.0	20.0	7 20	17 32.80	-22 26.3	2.353	3.248	10.0	21.7
7 30	17 30.53	-16 2.6	1.413	2.252	18.5	20.3	7 30	17 28.30	-22 33.6	2.430	3.234	12.7	21.8
102439	1999 TQ ₂₁₃		6 20.1 214°26	0°7/20.0	18		318815	2005 SE ₁₇₇		6 20.1 157°02	8°6/20.1	18	
5 21	18 22.07	-22 7.6	1.741	2.635	12.7	20.6	5 21	18 30.13	-56 32.1	3.092	3.858	11.0	21.3
5 31	18 15.04	-21 57.3	1.670	2.630	8.9	20.3	5 31	18 20.66	-57 29.5	3.039	3.865	9.8	21.2
6 10	18 5.87	-21 46.6	1.623	2.624	4.7	20.0	6 10	18 8.78	-58 8.9	3.008	3.872	9.0	21.1
6 20	17 55.46	-21 35.0	1.602	2.618	0.7	19.7	6 20	17 55.51	-58 26.5	3.001	3.878	8.6	21.1
6 30	17 44.98	-21 22.6	1.608	2.611	4.7	20.0	6 30	17 42.21	-58 20.4	3.019	3.883	9.0	21.1
7 10	17 35.61	-21 10.7	1.641	2.604	9.0	20.3	7 10	17 30.24	-57 52.3	3.060	3.889	9.8	21.2
7 20	17 28.28	-21 0.6	1.697	2.596	13.0	20.5	7 20	17 20.63	-57 6.4	3.123	3.894	10.9	21.3
7 30	17 23.65	-20 53.8	1.773	2.588	16.3	20.7	7 30	17 14.02	-56 8.0	3.206	3.898	12.1	21.4
115610	2003 UE ₁₀₃		6 20.1 40°09	3°6/19.8	18		210426	2008 AV ₇₂		6 20.1 282°83	1°0/20.1	18	
5 21	18 22.72	-28 50.9	1.284	2.190	15.5	19.1	5 21	18 18.76	-25 36.1	1.968	2.863	11.5	20.6
5 31	18 16.12	-29 46.4	1.233	2.196	11.1	18.9	5 31	18 12.66	-25 50.1	1.894	2.854	8.1	20.3
6 10	18 6.63	-30 37.1	1.203	2.201	6.4	18.6	6 10	18 4.64	-26 2.2	1.845	2.846	4.3	20.1
6 20	17 55.47	-31 17.3	1.196	2.207	3.6	18.5	6 20	17 55.49	-26 10.5	1.822	2.837	1.0	19.8
6 30	17 44.26	-31 43.5	1.215	2.214	6.6	18.6	6 30	17 46.21	-26 14.3	1.826	2.829	4.2	20.0
7 10	17 34.70	-31 55.7	1.257	2.221	11.1	18.9	7 10	17 37.87	-26 13.8	1.857	2.820	8.1	20.3
7 20	17 27.98	-31 57.0	1.320	2.228	15.3	19.2	7 20	17 31.32	-26 10.3	1.911	2.812	11.7	20.5
7 30	17 24.81	-31 51.5	1.401	2.235	18.8	19.4	7 30	17 27.17	-26 5.7	1.987	2.804	14.7	20.7
483159	2015 PD ₉		6 20.1 310°70	0°1/20.1	16		177100	2003 FZ ₉₈		6 20.1 105°36	2°9/20.1	17	
5 21	18 17.46	-20 59.2	2.035	2.929	11.1	20.8	5 21	18 19.43	-31 9.0	2.193	3.079	10.8	20.1
5 31	18 11.74	-21 37.6	1.955	2.915	7.8	20.5	5 31	18 12.95	-31 35.6	2.131	3.083	7.8	19.9
6 10	18 4.18	-22 19.4	1.899	2.901	4.1	20.3	6 10	18 4.72	-31 56.3	2.093	3.086	4.7	19.8
6 20	17 55.45	-23 2.6	1.871	2.887	0.1	19.9	6 20	17 55.49	-32 8.6	2.082	3.090	2.9	19.6
6 30	17 46.48	-23 45.0	1.870	2.874	4.0	20.2	6 30	17 46.26	-32 11.6	2.099	3.094	4.7	19.8
7 10	17 38.28	-24 24.9	1.897	2.861	7.9	20.4	7 10	17 38.00	-32 5.9	2.142	3.098	7.7	20.0
7 20	17 31.68	-25 1.8	1.947	2.848	11.5	20.6	7 20	17 31.48	-31 53.5	2.210	3.101	10.7	20.2
7 30	17 27.35	-25 35.8	2.020	2.835	14.5	20.8	7 30	17 27.25	-31 37.0	2.300	3.105	13.3	20.3
342522	2008 UX ₂₀₃		6 20.1 230°93	2°7/19.7	18		193735	2001 FD ₁₈₀		6 20.1 81°64	0°6/20.1	18	
5 21	18 19.42	-17 35.5	2.066	2.953	11.3	20.4	5 21	18 19.83	-20 8.4	1.816	2.710	12.3	19.6
5 31	18 12.88	-16 54.3	1.991	2.945	8.1	20.2	5 31	18 13.36	-20 41.4	1.758	2.718	8.6	19.4
6 10	18 4.65	-16 15.0	1.941	2.937	4.7	20.0	6 10	18 4.97	-21 17.8	1.725	2.726	4.5	19.2
6 20	17 55.46	-15 38.9	1.918	2.928	2.7	19.8	6 20	17 55.50	-21 55.3	1.718	2.734	0.6	18.9
6 30	17 46.22	-15 7.6	1.922	2.918	4.9	20.0	6 30	17 46.01	-22 31.9	1.738	2.742	4.3	19.2
7 10	17 37.88	-14 42.7	1.954	2.909	8.4	20.2	7 10	17 37.58	-23 6.4	1.785	2.750	8.3	19.4
7 20	17 31.17	-14 25.1	2.011	2.899	11.7	20.3	7 20	17 31.03	-23 38.3	1.857	2.758	11.9	19.7
7 30	17 26.64	-14 15.2	2.088	2.888	14.6	20.5	7 30	17 26.96	-24 7.9	1.949	2.765	14.9	19.9
134745	2000 AW ₂₄₇		6 20.1 225°33	6°2/20.2	18		98988	2001 DY ₂₇		6 20.1 14°68	0°5/20.1	18	
5 21													

EPHEMERIDES

6 20.1

6 20.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
21061	1991 <i>JD</i>		6 20.1 353°64	2°7/19.9	18		82335	2001 <i>LA</i> ₁₀		6 20.1 330°39	5°5/20.1	18	
5 21	18 15.57	-26 53.2	0.957	1.886	17.2	16.7	5 21	18 17.30	-12 5.3	1.285	2.187	15.7	19.0
5 31	18 11.71	-27 26.8	0.902	1.877	12.3	16.4	5 31	18 12.20	-11 43.1	1.219	2.177	11.8	18.7
6 10	18 4.61	-27 57.5	0.867	1.871	6.8	16.1	6 10	18 4.63	-11 33.0	1.175	2.167	7.7	18.5
6 20	17 55.50	-28 20.9	0.851	1.866	2.7	15.8	6 20	17 55.54	-11 36.9	1.152	2.157	5.5	18.3
6 30	17 46.22	-28 34.0	0.857	1.862	6.8	16.0	6 30	17 46.27	-11 55.4	1.154	2.148	7.7	18.4
7 10	17 38.69	-28 36.9	0.883	1.861	12.4	16.3	7 10	17 38.21	-12 27.4	1.178	2.140	11.9	18.6
7 20	17 34.31	-28 32.4	0.927	1.861	17.5	16.6	7 20	17 32.45	-13 10.4	1.223	2.133	16.1	18.9
7 30	17 33.89	-28 23.8	0.988	1.863	21.8	16.9	7 30	17 29.76	-14 1.3	1.285	2.126	19.8	19.1
175802	1999 <i>RT</i> ₁₄₉		6 20.1 348°85	9°8/20.9	18		509541	2008 <i>AF</i> ₃₅		6 20.1 94°08	0°3/20.1	17	
5 21	18 22.35	-47 2.7	1.630	2.487	15.4	18.8	5 21	18 18.08	-22 26.5	2.150	3.042	10.7	21.6
5 31	18 15.97	-47 42.4	1.567	2.478	12.9	18.6	5 31	18 11.90	-22 29.2	2.091	3.050	7.5	21.4
6 10	18 6.61	-48 0.6	1.524	2.471	10.8	18.5	6 10	18 4.14	-22 32.0	2.057	3.059	3.9	21.2
6 20	17 55.52	-47 51.5	1.503	2.465	9.8	18.4	6 20	17 55.54	-22 34.0	2.051	3.067	0.3	20.9
6 30	17 44.46	-47 13.1	1.506	2.459	10.5	18.4	6 30	17 46.99	-22 35.0	2.072	3.075	3.8	21.2
7 10	17 35.14	-46 8.7	1.531	2.455	12.6	18.5	7 10	17 39.37	-22 35.3	2.120	3.083	7.3	21.4
7 20	17 28.79	-44 45.6	1.577	2.451	15.1	18.7	7 20	17 33.36	-22 35.7	2.194	3.091	10.5	21.6
7 30	17 26.06	-43 12.2	1.642	2.449	17.7	18.8	7 30	17 29.45	-22 36.9	2.289	3.100	13.2	21.8
56238	1999 <i>JA</i> ₄₆		6 20.1 31°69	2°2/20.2	18	R	22135	2000 <i>UA</i> ₁₀₀		6 20.1 343°24	1°9/19.7	18	
5 21	18 18.53	-17 54.2	1.323	2.231	15.0	18.1	5 21	18 19.02	-22 58.0	1.343	2.253	14.6	16.3
5 31	18 12.81	-18 0.3	1.276	2.241	10.6	17.9	5 31	18 13.27	-21 47.3	1.278	2.245	10.3	16.0
6 10	18 4.78	-18 12.6	1.250	2.251	5.8	17.6	6 10	18 5.09	-20 31.8	1.234	2.237	5.5	15.8
6 20	17 55.51	-18 30.2	1.248	2.262	2.2	17.4	6 20	17 55.55	-19 14.4	1.215	2.230	1.9	15.5
6 30	17 46.35	-18 51.9	1.271	2.274	5.5	17.7	6 30	17 46.04	-17 59.6	1.221	2.224	5.9	15.7
7 10	17 38.60	-19 16.7	1.318	2.287	10.1	17.9	7 10	17 37.95	-16 52.5	1.251	2.219	10.8	16.0
7 20	17 33.21	-19 43.7	1.386	2.300	14.3	18.2	7 20	17 32.27	-15 56.7	1.303	2.215	15.2	16.2
7 30	17 30.77	-20 12.2	1.473	2.314	17.7	18.5	7 30	17 29.63	-15 14.2	1.373	2.211	18.9	16.5
502680	2015 <i>CB</i> ₅₇		6 20.1 165°63	4°3/20.3	17		150339	1999 <i>XX</i> ₂₇		6 20.1 149°31	3°3/19.5	18	
5 21	18 23.98	-35 10.0	2.003	2.880	12.1	21.5	5 21	18 20.97	-32 29.5	2.749	3.622	9.3	20.1
5 31	18 16.29	-35 30.2	1.940	2.883	9.0	21.3	5 31	18 13.89	-33 31.6	2.685	3.628	6.8	20.0
6 10	18 6.49	-35 40.0	1.901	2.887	5.9	21.2	6 10	18 5.21	-34 28.5	2.648	3.634	4.4	19.8
6 20	17 55.54	-35 36.6	1.888	2.890	4.3	21.1	6 20	17 55.56	-35 17.2	2.639	3.639	3.3	19.7
6 30	17 44.63	-35 18.9	1.903	2.892	5.8	21.2	6 30	17 45.78	-35 55.2	2.660	3.645	4.6	19.8
7 10	17 34.97	-34 49.1	1.944	2.894	8.8	21.3	7 10	17 36.72	-36 22.2	2.709	3.650	7.0	20.0
7 20	17 27.44	-34 10.9	2.010	2.896	11.9	21.5	7 20	17 29.11	-36 39.2	2.784	3.654	9.4	20.2
7 30	17 22.62	-33 28.7	2.096	2.897	14.6	21.7	7 30	17 23.50	-36 48.4	2.881	3.659	11.5	20.3
311524	2005 <i>XD</i> ₈₄		6 20.1 239°17	4°2/19.1	18		374477	2005 <i>YJ</i> ₃₉		6 20.1 155°67	2°2/20.0	17	
5 21	18 17.07	-11 33.3	2.693	3.562	9.6	21.0	5 21	18 19.93	-16 41.1	2.321	3.201	10.5	22.0
5 31	18 10.96	-10 34.0	2.613	3.551	7.2	20.9	5 31	18 13.04	-16 29.7	2.259	3.210	7.5	21.8
6 10	18 3.59	-9 39.1	2.559	3.539	5.1	20.7	6 10	18 4.69	-16 21.9	2.223	3.218	4.3	21.7
6 20	17 55.52	-8 50.7	2.534	3.526	4.2	20.6	6 20	17 55.56	-16 17.8	2.215	3.226	2.2	21.5
6 30	17 47.39	-8 10.8	2.537	3.514	5.4	20.7	6 30	17 46.48	-16 17.5	2.236	3.233	4.3	21.7
7 10	17 39.91	-7 40.7	2.568	3.501	7.8	20.8	7 10	17 38.26	-16 21.2	2.284	3.239	7.4	21.9
7 20	17 33.62	-7 20.7	2.625	3.487	10.2	21.0	7 20	17 31.54	-16 28.9	2.359	3.244	10.3	22.1
7 30	17 28.96	-7 10.4	2.703	3.474	12.4	21.1	7 30	17 26.79	-16 40.3	2.455	3.249	12.9	22.3
53405	1999 <i>KX</i> ₈		6 20.1 299°24	3°4/19.8	18		95020	Nencini		6 20.1 206°14	2°6/20.2	18	
5 21	18 20.10	-31 31.4	2.057	2.944	11.4	18.7	5 21	18 19.61	-15 31.2	2.067	2.951	11.5	20.1
5 31	18 13.63	-32 15.9	1.991	2.942	8.3	18.5	5 31	18 13.08	-15 31.0	1.994	2.946	8.3	19.9
6 10	18 5.17	-32 54.7	1.949	2.941	5.2	18.3	6 10	18 4.82	-15 36.5	1.947	2.942	4.9	19.7
6 20	17 55.53	-33 24.5	1.933	2.939	3.4	18.2	6 20	17 55.56	-15 47.5	1.926	2.937	2.6	19.5
6 30	17 45.77	-33 43.0	1.945	2.937	5.3	18.3	6 30	17 46.20	-16 3.5	1.934	2.931	4.8	19.7
7 10	17 37.00	-33 50.5	1.983	2.936	8.4	18.5	7 10	17 37.69	-16 24.0	1.968	2.925	8.2	19.9
7 20	17 30.08	-33 48.7	2.045	2.934	11.5	18.7	7 20	17 30.80	-16 48.4	2.027	2.918	11.5	20.1
7 30	17 25.66	-33 40.6	2.128	2.933	14.2	18.9	7 30	17 26.09	-17 16.0	2.108	2.911	14.4	20.3
397034	2005 <i>UP</i> ₄₉		6 20.1 231°33	3°0/19.8	18		344468	2002 <i>OT</i> ₃₆		6 20.1 355°33	1°0/20.0	17	
5 21	18 16.21	-14 36.3	2.593	3.472	9.6	20.8	5 21	18 19.12	-24 2.7	1.649	2.550	12.9	20.2
5 31	18 10.42	-14 7.0	2.516	3.464	7.0	20.6	5 31	18 13.17	-24 39.9	1.585	2.548	9.1	19.9
6 10	18 3.34	-13 41.7	2.464	3.455	4.4	20.4	6 10	18 5.02	-25 17.7	1.545	2.547	4.7	19.7
6 20	17 55.52	-13 21.3	2.441	3.446	3.0	20.3	6 20	17 55.57	-25 52.9	1.530	2.546	1.0	19.4
6 30	17 47.65	-13 6.7	2.446	3.437	4.5	20.4	6 30	17 46.00	-26 23.4	1.542	2.545	4.7	19.7
7 10	17 40.44	-12 58.4	2.479	3.427	7.2	20.6	7 10	17 37.54	-26 48.1	1.579	2.545	9.1	19.9
7 20	17 34.46	-12 56.5	2.537	3.418	9.9	20.7	7 20	17 31.16	-27 7.7	1.639	2.545	12.9	20.2
7 30	17 30.18	-13 0.8	2.617	3.408	12.2	20.9	7 30	17 27.52	-27 23.5	1.719	2.546	16.2	20.4
4439	Muroto		6 20.1 211°62	0°5/20.1	18		476462	2008 <i>EG</i> ₁₃₀		6 20.1 16°46	10°1/20.1	16	
5 21	18 17.55	-25 1.2	2.984	3.865	8.4	19.2	5 21	18 24.25	-48 38.9	1.824	2.667	14.6	20.5
5 31	18 11.30	-25 8.8	2.903	3.858	5.9	19.0	5 31	18 17.20	-49 48.0	1.774	2.671	12.5	20.3
6 10	18 3.78	-25 14.8	2.850	3.849	3.1	18.8	6 10	18 7.24	-50 36.6	1.745	2.676	10.8	20.2
6 20	17 55.53	-25 18.5	2.825	3.841	0.5	18.6	6 20	17 55.59	-50 58.7	1.739	2.682	10.1	20.2
6 30	17 47.20	-25 19.2	2.830	3.831	3.0	18.8	6 30	17 43.94	-50 51.8	1.756	2.688	10.7	20.2
7 10	17 39.49	-25 17.4	2.863	3.821	5.9	19.0	7 10	17 33.96	-50 18.3	1.795	2.695	12.4	20.4
7 20	17 32.96	-25 13.8	2.923	3.811	8.5	19.1	7 20	17 26.86	-49 24.4	1.856	2.702	14.4	20.5
7 30	17 28.05	-25 9.5	3.007	3.800	10.7	19.3	7 30	17 23.31	-48 17.3	1.935	2.710	16.5	20.7
415777	2000 <i>VR</i> ₆		6 20.1 221°45	3°0/19.9	17		86332	1999 <i>XG</i> ₂₁					

EPHEMERIDES

6 20.1

6 20.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
86161	1999 <i>RQ</i> ₂₀₅		6 20.1 191°71	4°6/20.6	18		385442	2003 <i>OM</i> ₆		6 20.1 336°55	1°4/20.4	17	
5 21	18 21.16	-38 42.1	2.447	3.312	10.6	18.7	5 21	18 18.52	-29 48.6	1.222	2.134	15.6	19.2
5 31	18 14.12	-38 53.1	2.379	3.311	8.2	18.6	5 31	18 13.37	-28 51.6	1.147	2.114	11.2	18.9
6 10	18 5.33	-38 52.9	2.335	3.310	5.8	18.4	6 10	18 5.36	-27 40.2	1.093	2.096	6.1	18.6
6 20	17 55.60	-38 39.3	2.318	3.310	4.6	18.3	6 20	17 55.64	-26 15.3	1.062	2.078	1.4	18.2
6 30	17 45.93	-38 11.8	2.329	3.309	5.6	18.4	6 30	17 45.81	-24 40.7	1.056	2.062	5.7	18.4
7 10	17 37.29	-37 32.4	2.366	3.308	7.9	18.5	7 10	17 37.52	-23 3.6	1.072	2.047	11.2	18.7
7 20	17 30.44	-36 44.4	2.429	3.306	10.4	18.7	7 20	17 31.97	-21 31.6	1.110	2.033	16.2	18.9
7 30	17 25.89	-35 52.0	2.513	3.305	12.7	18.8	7 30	17 29.90	-20 10.6	1.166	2.022	20.5	19.2
180358	2003 <i>YA</i> ₈₅		6 20.1 264°61	2°0/20.1	18		152478	2005 <i>WP</i> ₃₀		6 20.1 219°10	2°3/19.9	18	
5 21	18 21.78	-18 14.0	1.670	2.563	13.2	20.7	5 21	18 18.65	-29 33.3	2.502	3.386	9.7	20.5
5 31	18 15.16	-18 17.5	1.583	2.541	9.5	20.4	5 31	18 12.36	-30 7.7	2.430	3.382	7.0	20.3
6 10	18 6.16	-18 25.6	1.520	2.519	5.3	20.1	6 10	18 4.47	-30 38.3	2.383	3.378	4.1	20.1
6 20	17 55.62	-18 37.7	1.482	2.496	2.0	19.9	6 20	17 55.64	-31 2.8	2.364	3.374	2.3	20.0
6 30	17 44.68	-18 53.2	1.472	2.473	5.2	20.0	6 30	17 46.70	-31 19.7	2.374	3.370	4.1	20.1
7 10	17 34.65	-19 11.5	1.487	2.449	9.8	20.2	7 10	17 38.52	-31 29.1	2.411	3.366	7.0	20.3
7 20	17 26.61	-19 32.4	1.525	2.425	14.1	20.4	7 20	17 31.81	-31 32.0	2.474	3.362	9.8	20.4
7 30	17 21.39	-19 56.1	1.583	2.401	17.8	20.6	7 30	17 27.13	-31 30.4	2.559	3.357	12.3	20.6
19141	Poelkapelle		6 20.1 157°26	1°3/20.1	18		64116	2001 <i>TX</i> ₁₃		6 20.1 168°86	0°8/20.1	17	
5 21	18 22.82	-19 32.1	1.803	2.692	12.6	18.8	5 21	18 23.55	-21 22.4	1.558	2.454	13.8	19.8
5 31	18 15.44	-19 37.7	1.742	2.699	8.9	18.6	5 31	18 16.24	-21 25.3	1.496	2.457	9.7	19.6
6 10	18 6.08	-19 46.1	1.706	2.706	4.7	18.3	6 10	18 6.62	-21 29.3	1.458	2.460	5.1	19.3
6 20	17 55.62	-19 56.1	1.697	2.712	1.3	18.1	6 20	17 55.68	-21 33.4	1.446	2.462	0.8	19.0
6 30	17 45.18	-20 7.2	1.715	2.717	4.6	18.3	6 30	17 44.73	-21 36.7	1.460	2.464	5.0	19.3
7 10	17 35.88	-20 19.0	1.760	2.722	8.7	18.6	7 10	17 35.08	-21 39.9	1.500	2.465	9.6	19.6
7 20	17 28.56	-20 31.9	1.829	2.725	12.3	18.8	7 20	17 27.73	-21 43.7	1.563	2.465	13.7	19.8
7 30	17 23.80	-20 46.4	1.920	2.729	15.4	19.0	7 30	17 23.30	-21 49.5	1.646	2.466	17.1	20.0
250627	2005 <i>GH</i> ₁₄₄		6 20.1 91°91	4°7/20.2	17		476940	2008 <i>WK</i> ₁₃₉		6 20.1 215°38	1°5/20.1	18	
5 21	18 20.66	-12 50.9	1.480	2.372	14.6	20.5	5 21	18 19.06	-18 21.7	2.490	3.371	9.8	22.4
5 31	18 14.10	-12 31.3	1.429	2.382	10.8	20.3	5 31	18 12.55	-18 21.4	2.409	3.362	7.0	22.2
6 10	18 5.42	-12 21.6	1.400	2.392	6.8	20.1	6 10	18 4.54	-18 23.7	2.355	3.353	3.8	21.9
6 20	17 55.61	-12 22.8	1.396	2.401	4.7	20.0	6 20	17 55.66	-18 28.3	2.329	3.343	1.5	21.8
6 30	17 45.90	-12 35.1	1.417	2.411	6.7	20.2	6 30	17 46.67	-18 34.8	2.332	3.332	3.8	21.9
7 10	17 37.48	-12 57.4	1.463	2.420	10.4	20.4	7 10	17 38.37	-18 43.4	2.364	3.321	7.0	22.1
7 20	17 31.24	-13 27.9	1.531	2.429	14.1	20.7	7 20	17 31.44	-18 53.9	2.421	3.309	10.0	22.3
7 30	17 27.75	-14 4.7	1.618	2.438	17.3	20.9	7 30	17 26.37	-19 6.6	2.500	3.296	12.6	22.4
403205	2008 <i>SC</i> ₂₅₆		6 20.1 218°42	0°2/20.1	16		183809	2004 <i>BH</i> ₅₃		6 20.1 119°69	0°7/20.1	17	
5 21	18 24.18	-23 34.8	1.487	2.385	14.2	22.3	5 21	18 22.90	-21 44.4	1.739	2.632	12.8	21.6
5 31	18 16.91	-23 42.5	1.417	2.379	10.0	22.0	5 31	18 15.46	-21 41.9	1.688	2.647	8.9	21.4
6 10	18 7.06	-23 49.6	1.371	2.373	5.2	21.7	6 10	18 6.07	-21 39.8	1.660	2.661	4.6	21.1
6 20	17 55.64	-23 53.9	1.349	2.366	0.2	21.3	6 20	17 55.68	-21 37.3	1.659	2.675	0.7	20.9
6 30	17 44.05	-23 54.4	1.354	2.358	5.2	21.7	6 30	17 45.43	-21 34.1	1.686	2.689	4.5	21.2
7 10	17 33.77	-23 51.9	1.385	2.350	10.1	21.9	7 10	17 36.45	-21 31.0	1.739	2.702	8.6	21.4
7 20	17 25.94	-23 48.2	1.437	2.342	14.5	22.2	7 20	17 29.56	-21 29.1	1.816	2.714	12.3	21.7
7 30	17 21.27	-23 45.4	1.509	2.333	18.2	22.4	7 30	17 25.27	-21 29.4	1.913	2.726	15.3	21.9
305234	2007 <i>XA</i> ₂₀		6 20.1 278°83	1°2/19.9	18		35984	1999 <i>NK</i> ₇		6 20.1 338°39	3°7/20.6	18	
5 21	18 19.77	-24 37.6	1.992	2.884	11.4	20.7	5 21	18 18.84	-33 26.0	1.672	2.567	13.1	18.4
5 31	18 13.51	-25 19.0	1.910	2.869	8.1	20.5	5 31	18 13.08	-33 21.1	1.600	2.555	9.6	18.2
6 10	18 5.21	-26 0.9	1.853	2.854	4.3	20.2	6 10	18 5.03	-33 5.3	1.550	2.544	6.0	18.0
6 20	17 55.62	-26 40.6	1.823	2.838	1.2	19.9	6 20	17 55.66	-32 36.6	1.525	2.534	3.7	17.8
6 30	17 45.74	-27 15.6	1.821	2.823	4.4	20.1	6 30	17 46.26	-31 55.2	1.526	2.524	5.7	17.9
7 10	17 36.66	-27 44.7	1.845	2.807	8.3	20.3	7 10	17 38.10	-31 4.0	1.552	2.515	9.4	18.1
7 20	17 29.33	-28 8.1	1.894	2.791	11.9	20.5	7 20	17 32.18	-30 7.4	1.600	2.507	13.1	18.3
7 30	17 24.45	-28 27.2	1.964	2.776	15.0	20.7	7 30	17 29.12	-29 10.3	1.669	2.500	16.4	18.5
201582	2003 <i>SX</i> ₈₅		6 20.1 210°48	2°8/19.9	18		381884	2010 <i>AJ</i> ₇₅		6 20.1 253°02	5°7/19.3	18	
5 21	18 18.31	-14 44.8	2.588	3.464	9.7	20.9	5 21	18 19.48	-10 34.6	1.892	2.770	12.6	19.6
5 31	18 11.91	-14 24.2	2.510	3.456	7.1	20.7	5 31	18 13.14	-9 35.7	1.814	2.756	9.7	19.4
6 10	18 4.15	-14 7.6	2.457	3.448	4.3	20.5	6 10	18 4.96	-8 44.1	1.760	2.741	6.9	19.2
6 20	17 55.61	-13 55.8	2.433	3.439	2.8	20.4	6 20	17 55.68	-8 2.7	1.732	2.726	5.7	19.1
6 30	17 47.00	-13 49.2	2.438	3.430	4.4	20.5	6 30	17 46.25	-7 34.2	1.731	2.710	7.3	19.2
7 10	17 39.06	-13 48.2	2.470	3.419	7.2	20.7	7 10	17 37.69	-7 19.7	1.756	2.694	10.3	19.3
7 20	17 32.40	-13 52.7	2.529	3.409	9.9	20.8	7 20	17 30.82	-7 19.1	1.803	2.678	13.5	19.5
7 30	17 27.50	-14 2.5	2.610	3.397	12.4	21.0	7 30	17 26.25	-7 31.0	1.870	2.661	16.4	19.7
512383	2016 <i>NP</i> ₆₅		6 20.1 250°95	1°3/20.1	18		44992	Bailey		6 20.1 282°29	9°3/21.0	18	
5 21	18 19.12	-19 27.9	2.123	3.011	11.0	21.8	5 21	18 16.14	+ 5 35.0	2.282	3.092	13.1	20.8
5 31	18 12.83	-19 27.1	2.040	2.997	7.8	21.6	5 31	18 10.59	+ 5 52.8	2.206	3.079	11.4	20.7
6 10	18 4.77	-19 28.7	1.982	2.981	4.2	21.3	6 10	18 3.57	+ 5 51.1	2.153	3.066	9.9	20.5
6 20	17 55.63	-19 32.1	1.951	2.966	1.3	21.1	6 20	17 55.67	+ 5 27.6	2.123	3.052	9.3	20.5
6 30	17 46.31	-19 37.1	1.948	2.950	4.2	21.3	6 30	17 47.65	+ 4 41.7	2.118	3.039	9.7	20.5
7 10	17 37.77	-19 43.7	1.973	2.934	7.9	21.5	7 10	17 40.29	+ 3 35.1	2.137	3.026	11.1	20.5
7 20	17 30.81	-19 52.2	2.022	2.917	11.4	21.7	7 20	17 34.25	+ 2 11.7	2.179	3.012	13.0	20.6
7 30	17 26.03	-20 3.1	2.093	2.900	14.4	21.8	7 30	17 30.05	+ 0 35.9	2.243	2.999	15.0	20.8
493593	2015 <i>MB</i> ₅₁		6 20.1 322°60	3°7/20.2	15		3531	Cruikshank		6 20.1			

EPHEMERIDES

6 20.1

6 20.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
198377	2004 VQ ₂₅		6 20.1 259°54	1.7°/20.1	18		71892	2000 WY ₆		6 20.1 169°09	4.3°/20.3	18	
5 21	18 20.80	-27 24.6	1.832	2.726	12.2	20.6	5 21	18 25.20	-33 13.3	1.565	2.455	14.2	19.4
5 31	18 14.28	-27 39.1	1.758	2.717	8.7	20.4	5 31	18 17.64	-33 37.6	1.505	2.456	10.4	19.2
6 10	18 5.63	-27 49.9	1.708	2.708	4.7	20.1	6 10	18 7.46	-33 51.8	1.466	2.458	6.6	19.0
6 20	17 55.70	-27 54.7	1.685	2.699	1.7	19.9	6 20	17 55.79	-33 51.8	1.453	2.459	4.3	18.8
6 30	17 45.63	-27 52.5	1.688	2.690	4.7	20.1	6 30	17 44.13	-33 36.4	1.466	2.460	6.4	19.0
7 10	17 36.61	-27 44.0	1.717	2.681	8.7	20.3	7 10	17 33.98	-33 7.7	1.503	2.461	10.2	19.2
7 20	17 29.59	-27 31.4	1.771	2.671	12.4	20.5	7 20	17 26.43	-32 30.6	1.564	2.461	13.9	19.4
7 30	17 25.21	-27 17.2	1.844	2.662	15.6	20.7	7 30	17 22.15	-31 50.0	1.644	2.461	17.2	19.6
212451	2006 QV ₁₅		6 20.1 342°19	0°6/20.1	17		342741	2008 WK ₅₄		6 20.1 241°51	2°0/20.2	16	
5 21	18 18.24	-21 15.6	1.852	2.749	11.9	20.5	5 21	18 21.06	-28 39.7	2.041	2.929	11.4	21.9
5 31	18 12.34	-21 23.0	1.786	2.747	8.4	20.2	5 31	18 14.34	-28 52.5	1.964	2.919	8.1	21.7
6 10	18 4.57	-21 32.1	1.744	2.745	4.4	20.0	6 10	18 5.64	-29 0.6	1.911	2.909	4.6	21.4
6 20	17 55.72	-21 41.7	1.728	2.744	0.6	19.7	6 20	17 55.77	-29 2.0	1.885	2.898	2.0	21.2
6 30	17 46.81	-21 51.2	1.739	2.742	4.3	20.0	6 30	17 45.76	-28 55.7	1.887	2.887	4.5	21.4
7 10	17 38.88	-22 0.5	1.776	2.741	8.3	20.2	7 10	17 36.70	-28 42.7	1.916	2.876	8.1	21.6
7 20	17 32.75	-22 10.0	1.837	2.740	11.9	20.4	7 20	17 29.48	-28 25.0	1.969	2.864	11.6	21.8
7 30	17 29.02	-22 20.3	1.918	2.739	15.0	20.6	7 30	17 24.72	-28 5.4	2.043	2.853	14.6	21.9
504464	2008 DS ₂₀		6 20.1 107°47	6°0/19.9	17		93370	2000 SY ₂₆₈		6 20.1 271°88	2°3/20.1	18	
5 21	18 16.55	-4 32.8	2.459	3.311	11.0	21.5	5 21	18 20.03	-17 21.2	1.903	2.792	12.0	20.7
5 31	18 10.60	-3 55.8	2.410	3.328	8.7	21.4	5 31	18 13.74	-17 17.0	1.813	2.768	8.7	20.4
6 10	18 3.46	-3 30.1	2.386	3.344	6.8	21.3	6 10	18 5.42	-17 17.2	1.747	2.744	4.9	20.1
6 20	17 55.71	-3 17.3	2.388	3.360	6.0	21.3	6 20	17 55.77	-17 21.7	1.707	2.719	2.3	19.9
6 30	17 48.05	-3 18.2	2.417	3.376	6.8	21.4	6 30	17 45.80	-17 30.3	1.694	2.694	4.9	20.0
7 10	17 41.16	-3 32.0	2.472	3.391	8.6	21.5	7 10	17 36.60	-17 42.9	1.708	2.669	9.0	20.2
7 20	17 35.56	-3 57.0	2.551	3.406	10.7	21.7	7 20	17 29.11	-17 59.4	1.747	2.643	12.8	20.4
7 30	17 31.66	-4 31.2	2.652	3.421	12.6	21.8	7 30	17 24.05	-18 19.8	1.805	2.616	16.1	20.5
109113	2001 QB ₄₁		6 20.1 330°62	0°0/20.1	18 R		446632	2015 MN ₁₁₁		6 20.1 284°06	0°3/20.1	18	
5 21	18 19.74	-22 47.9	1.388	2.295	14.4	19.6	5 21	18 17.54	-22 19.0	2.205	3.097	10.5	21.4
5 31	18 13.93	-22 59.5	1.323	2.289	10.2	19.4	5 31	18 11.75	-22 24.1	2.121	3.080	7.4	21.2
6 10	18 5.60	-23 11.9	1.280	2.283	5.3	19.1	6 10	18 4.27	-22 29.6	2.062	3.063	3.9	21.0
6 20	17 55.74	-23 23.3	1.261	2.277	0.1	18.6	6 20	17 55.75	-22 34.7	2.030	3.046	0.3	20.6
6 30	17 45.74	-23 32.5	1.267	2.272	5.2	19.0	6 30	17 47.06	-22 38.8	2.026	3.029	3.8	20.9
7 10	17 37.02	-23 39.6	1.297	2.267	10.2	19.3	7 10	17 39.10	-22 42.1	2.049	3.012	7.5	21.1
7 20	17 30.71	-23 45.6	1.349	2.262	14.6	19.5	7 20	17 32.65	-22 45.1	2.096	2.995	10.9	21.3
7 30	17 27.51	-23 51.8	1.419	2.259	18.3	19.8	7 30	17 28.31	-22 48.8	2.166	2.978	13.8	21.4
208550	2002 AQ ₁₁₅		6 20.1 263°28	1°4/20.2	18		143586	2003 FD ₂₆		6 20.1 33°36	0°9/20.1	18	
5 21	18 22.17	-19 19.7	1.467	2.366	14.3	20.2	5 21	18 17.40	-20 51.8	1.826	2.724	12.0	19.7
5 31	18 15.66	-19 33.9	1.390	2.352	10.2	19.9	5 31	18 11.68	-20 51.0	1.771	2.732	8.4	19.5
6 10	18 6.55	-19 53.1	1.337	2.338	5.5	19.6	6 10	18 4.19	-20 51.9	1.739	2.741	4.4	19.3
6 20	17 55.76	-20 15.7	1.307	2.323	1.4	19.3	6 20	17 55.75	-20 53.8	1.734	2.749	0.9	19.0
6 30	17 44.64	-20 40.0	1.304	2.308	5.4	19.5	6 30	17 47.37	-20 56.5	1.755	2.758	4.3	19.3
7 10	17 34.62	-21 5.2	1.326	2.292	10.4	19.8	7 10	17 40.03	-21 0.2	1.802	2.768	8.2	19.6
7 20	17 26.90	-21 30.9	1.369	2.276	14.9	20.0	7 20	17 34.50	-21 5.3	1.873	2.778	11.6	19.8
7 30	17 22.30	-21 57.4	1.432	2.261	18.8	20.2	7 30	17 31.30	-21 12.2	1.965	2.788	14.6	20.0
471789	2012 VC ₃₁		6 20.1 266°44	1°4/19.9	18		309762	2008 YN ₅		6 20.1 90°05	3°5/20.1	17	
5 21	18 20.76	-25 12.6	1.978	2.869	11.6	21.2	5 21	18 21.87	-16 7.9	1.340	2.240	15.3	20.7
5 31	18 14.27	-25 57.1	1.897	2.855	8.2	20.9	5 31	18 15.19	-15 49.2	1.289	2.248	11.0	20.5
6 10	18 5.68	-26 42.0	1.840	2.840	4.4	20.7	6 10	18 6.13	-15 37.5	1.259	2.256	6.4	20.3
6 20	17 55.76	-27 23.8	1.811	2.826	1.4	20.4	6 20	17 55.78	-15 33.5	1.253	2.264	3.5	20.1
6 30	17 45.53	-28 0.0	1.809	2.811	4.5	20.6	6 30	17 45.52	-15 37.3	1.273	2.272	6.3	20.3
7 10	17 36.13	-28 29.5	1.835	2.796	8.4	20.8	7 10	17 36.72	-15 48.9	1.317	2.280	10.7	20.6
7 20	17 28.52	-28 52.5	1.885	2.780	12.0	21.0	7 20	17 30.35	-16 7.3	1.382	2.288	14.9	20.8
7 30	17 23.41	-29 10.5	1.955	2.765	15.1	21.2	7 30	17 27.01	-16 31.5	1.466	2.296	18.3	21.1
116001	2003 WD ₇₄		6 20.1 215°30	2°2/20.1	18		387089	2012 TF ₁₀₈		6 20.1 329°13	0°4/20.1	17	
5 21	18 20.56	-29 6.0	2.040	2.929	11.4	20.3	5 21	18 19.07	-23 2.4	1.756	2.654	12.4	21.2
5 31	18 13.94	-29 26.1	1.971	2.926	8.1	20.1	5 31	18 13.00	-22 52.6	1.689	2.651	8.7	20.9
6 10	18 5.40	-29 41.4	1.926	2.923	4.6	19.9	6 10	18 4.95	-22 41.9	1.646	2.648	4.5	20.7
6 20	17 55.75	-29 49.6	1.908	2.920	2.2	19.7	6 20	17 55.77	-22 29.9	1.629	2.646	0.4	20.4
6 30	17 46.03	-29 49.8	1.918	2.917	4.5	19.8	6 30	17 46.57	-22 16.8	1.639	2.643	4.4	20.7
7 10	17 37.31	-29 42.5	1.954	2.913	8.1	20.0	7 10	17 38.44	-22 3.7	1.675	2.641	8.6	20.9
7 20	17 30.42	-29 29.8	2.014	2.910	11.4	20.2	7 20	17 32.26	-21 51.9	1.734	2.639	12.4	21.1
7 30	17 25.97	-29 14.4	2.096	2.906	14.3	20.4	7 30	17 28.61	-21 43.0	1.813	2.636	15.6	21.4
40285	1999 JT ₅₂		6 20.1 286°98	3°8/19.8	18		316033	2009 FW ₆₃		6 20.1 183°01	3°1/20.0	16	
5 21	18 20.83	-16 34.7	1.422	2.322	14.7	18.2	5 21	18 25.48	-29 55.7	1.773	2.660	12.9	21.7
5 31	18 14.79	-16 0.1	1.338	2.297	10.7	17.9	5 31	18 17.65	-30 33.1	1.707	2.661	9.3	21.5
6 10	18 6.14	-15 29.7	1.275	2.272	6.4	17.6	6 10	18 7.44	-31 4.8	1.666	2.661	5.5	21.3
6 20	17 55.77	-15 5.1	1.237	2.247	3.8	17.4	6 20	17 55.81	-31 27.0	1.650	2.661	3.1	21.1
6 30	17 44.98	-14 48.2	1.224	2.222	6.7	17.5	6 30	17 44.08	-31 37.4	1.663	2.660	5.4	21.3
7 10	17 35.22	-14 40.5	1.234	2.197	11.5	17.7	7 10	17 33.59	-31 36.6	1.701	2.658	9.3	21.5
7 20	17 27.70	-14 42.6	1.267	2.171	16.1	17.9	7 20	17 25.37	-31 27.4	1.764	2.655	12.9	21.7
7 30	17 23.30	-14 54.2	1.317	2.146	20.1	18.1	7 30	17 20.10	-31 13.5	1.846	2.652	16.0	21.9
163401	2002 QP ₈₃		6 20.1 208°57	1°1/20.1	17		144164	2004 BY ₁₀₃		6 20.2 62°34	0°7/20.2	17	

EPHEMERIDES

6 20.2

6 20.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
90864	1996 <i>RJ</i> ₁		6 20.2 332°08	6°5/19.9	15		352003	2006 <i>UA</i> ₂₅₃		6 20.2 290°71	1°7/20.1	16	
5 21	18 19.80	-35 23.3	1.274	2.177	15.8	19.5	5 21	18 17.54	-19 12.2	2.015	2.908	11.3	21.7
5 31	18 14.61	-36 13.5	1.204	2.160	12.1	19.2	5 31	18 11.79	-18 59.2	1.940	2.899	8.0	21.5
6 10	18 6.24	-36 52.5	1.155	2.144	8.4	18.9	6 10	18 4.31	-18 48.4	1.890	2.889	4.4	21.3
6 20	17 55.80	-37 13.8	1.128	2.129	6.5	18.8	6 20	17 55.82	-18 39.8	1.866	2.880	1.7	21.1
6 30	17 44.99	-37 13.4	1.124	2.115	8.5	18.9	6 30	17 47.24	-18 34.0	1.869	2.871	4.4	21.2
7 10	17 35.70	-36 52.4	1.142	2.102	12.4	19.0	7 10	17 39.51	-18 31.2	1.899	2.861	8.1	21.4
7 20	17 29.37	-36 15.7	1.180	2.090	16.6	19.2	7 20	17 33.39	-18 32.0	1.953	2.852	11.5	21.6
7 30	17 26.88	-35 30.2	1.235	2.079	20.3	19.5	7 30	17 29.47	-18 36.6	2.028	2.843	14.5	21.8
440686	2005 <i>YJ</i> ₆₂		6 20.2 255°40	0°2/20.1	18		472338	2015 <i>AN</i> ₂₄₁		6 20.2 28°03	11°5/22.9	17	
5 21	18 17.41	-23 52.3	2.565	3.451	9.4	21.9	5 21	18 18.67	+ 5 44.7	1.523	2.355	17.5	20.1
5 31	18 11.48	-24 0.8	2.481	3.438	6.6	21.7	5 31	18 12.77	+ 5 48.9	1.470	2.360	15.0	19.9
6 10	18 4.07	-24 8.5	2.423	3.423	3.4	21.4	6 10	18 4.86	+ 5 24.1	1.437	2.365	12.8	19.8
6 20	17 55.78	-24 14.6	2.393	3.409	0.2	21.1	6 20	17 55.83	+ 4 28.1	1.425	2.371	11.6	19.8
6 30	17 47.36	-24 18.4	2.391	3.394	3.4	21.4	6 30	17 46.82	+ 3 2.0	1.436	2.377	11.9	19.8
7 10	17 39.59	-24 20.2	2.418	3.379	6.6	21.6	7 10	17 38.92	+ 1 11.2	1.470	2.384	13.6	19.9
7 20	17 33.15	-24 20.6	2.470	3.364	9.6	21.7	7 20	17 33.03	- 0 56.6	1.526	2.391	16.0	20.1
7 30	17 28.56	-24 20.6	2.545	3.349	12.2	21.9	7 30	17 29.71	- 3 13.2	1.602	2.399	18.5	20.3
29516	1997 <i>YO</i> ₇		6 20.2 119°94	1°5/20.3	18		425866	2011 <i>FF</i> ₄		6 20.2 58°67	2°0/20.3	17	
5 21	18 18.30	-17 44.0	2.176	3.063	10.8	18.3	5 21	18 19.87	-17 34.9	1.589	2.486	13.5	20.5
5 31	18 12.15	-18 5.9	2.113	3.068	7.6	18.1	5 31	18 13.64	-17 49.4	1.533	2.493	9.6	20.2
6 10	18 4.41	-18 32.1	2.074	3.073	4.2	17.9	6 10	18 5.32	-18 9.8	1.501	2.501	5.3	20.0
6 20	17 55.79	-19 1.6	2.063	3.077	1.5	17.7	6 20	17 55.85	-18 34.8	1.494	2.508	2.0	19.8
6 30	17 47.12	-19 33.0	2.081	3.082	4.0	17.9	6 30	17 46.38	-19 3.0	1.513	2.515	5.0	20.0
7 10	17 39.28	-20 5.2	2.125	3.087	7.4	18.1	7 10	17 38.10	-19 33.1	1.558	2.523	9.2	20.3
7 20	17 32.97	-20 37.5	2.195	3.091	10.6	18.3	7 20	17 31.88	-20 4.3	1.625	2.531	13.0	20.5
7 30	17 28.72	-21 9.7	2.287	3.095	13.3	18.5	7 30	17 28.33	-20 36.1	1.713	2.539	16.3	20.8
314320	2005 <i>SU</i> ₂₃₂		6 20.2 281°59	0°8/20.1	18		281901	2011 <i>CR</i> ₁₇		6 20.2 220°20	2°3/20.3	17	
5 21	18 18.48	-25 35.5	2.260	3.150	10.4	21.4	5 21	18 20.55	-16 49.0	1.741	2.633	12.9	21.0
5 31	18 12.46	-25 45.6	2.170	3.128	7.3	21.2	5 31	18 14.09	-16 58.4	1.672	2.629	9.2	20.7
6 10	18 4.68	-25 53.9	2.105	3.106	3.9	20.9	6 10	18 5.58	-17 13.9	1.627	2.625	5.2	20.5
6 20	17 55.80	-25 58.9	2.068	3.083	0.8	20.7	6 20	17 55.86	-17 34.5	1.608	2.621	2.3	20.3
6 30	17 46.69	-25 59.8	2.058	3.061	3.9	20.9	6 30	17 46.01	-17 59.4	1.616	2.616	5.0	20.4
7 10	17 38.31	-25 57.0	2.076	3.038	7.5	21.0	7 10	17 37.17	-18 27.5	1.649	2.612	9.0	20.7
7 20	17 31.44	-25 51.5	2.119	3.016	10.9	21.2	7 20	17 30.24	-18 57.8	1.707	2.607	12.8	20.9
7 30	17 26.73	-25 45.0	2.183	2.993	13.8	21.4	7 30	17 25.86	-19 30.0	1.785	2.602	16.1	21.1
95548	2002 <i>EX</i> ₈₈		6 20.2 136°66	0°2/20.1	18		136872	1998 <i>FZ</i> ₆₆		6 20.2 2°14	2°4/20.2	17	
5 21	18 20.58	-23 35.0	1.839	2.733	12.1	20.3	5 21	18 15.34	-18 34.9	0.960	1.887	17.4	18.5
5 31	18 13.99	-23 45.7	1.777	2.737	8.5	20.1	5 31	18 11.38	-18 36.5	0.910	1.884	12.4	18.2
6 10	18 5.44	-23 55.7	1.740	2.741	4.4	19.9	6 10	18 4.48	-18 45.8	0.879	1.883	6.8	17.9
6 20	17 55.81	-24 3.5	1.728	2.744	0.2	19.5	6 20	17 55.85	-19 1.9	0.868	1.883	2.4	17.6
6 30	17 46.18	-24 8.6	1.744	2.748	4.3	19.9	6 30	17 47.15	-19 23.8	0.879	1.885	6.5	17.9
7 10	17 37.63	-24 11.0	1.787	2.751	8.3	20.1	7 10	17 40.11	-19 50.1	0.911	1.889	12.1	18.2
7 20	17 31.00	-24 12.0	1.853	2.754	11.9	20.4	7 20	17 35.96	-20 19.4	0.961	1.895	17.1	18.5
7 30	17 26.87	-24 13.0	1.940	2.757	15.0	20.6	7 30	17 35.40	-20 50.7	1.027	1.902	21.3	18.8
260851	2005 <i>QC</i> ₇₈		6 20.2 296°27	4°2/20.3	18		475462	2006 <i>SW</i> ₅		6 20.2 118°30	6°7/20.6	16	
5 21	18 20.32	-34 57.6	2.051	2.933	11.7	20.6	5 21	18 41.06	-37 54.3	1.382	2.249	17.0	22.3
5 31	18 13.96	-35 17.7	1.972	2.918	8.7	20.4	5 31	18 28.69	-38 38.8	1.346	2.282	12.8	22.1
6 10	18 5.52	-35 28.6	1.917	2.904	5.8	20.2	6 10	18 13.07	-39 4.0	1.334	2.312	8.8	21.9
6 20	17 55.82	-35 27.3	1.888	2.890	4.2	20.1	6 20	17 55.99	-39 3.4	1.347	2.341	6.7	21.9
6 30	17 45.98	-35 12.6	1.886	2.876	5.7	20.1	6 30	17 39.63	-38 36.4	1.386	2.368	8.3	22.1
7 10	17 37.15	-34 45.7	1.909	2.861	8.7	20.3	7 10	17 25.92	-37 49.0	1.451	2.394	11.7	22.3
7 20	17 30.25	-34 10.0	1.957	2.848	11.9	20.5	7 20	17 15.98	-36 50.1	1.539	2.417	15.2	22.6
7 30	17 25.93	-33 29.4	2.025	2.834	14.7	20.6	7 30	17 10.22	-35 48.3	1.646	2.439	18.2	22.9
91099	1998 <i>HK</i> ₇		6 20.2 122°72	7°8/19.3	18		308111	2004 <i>XW</i> ₅		6 20.2 83°59	5°3/19.1	18	
5 21	18 33.30	-41 28.7	1.889	2.741	13.8	18.5	5 21	18 30.85	-30 10.2	1.399	2.289	15.5	20.4
5 31	18 23.36	-43 7.7	1.845	2.762	11.0	18.3	5 31	18 21.88	-32 16.0	1.360	2.313	11.2	20.2
6 10	18 10.50	-44 30.9	1.826	2.782	8.7	18.2	6 10	18 9.82	-34 15.3	1.345	2.336	7.2	20.0
6 20	17 55.90	-45 30.7	1.834	2.802	7.8	18.2	6 20	17 55.95	-35 57.8	1.357	2.359	5.4	20.0
6 30	17 41.22	-46 3.4	1.868	2.820	8.9	18.3	6 30	17 42.03	-37 16.6	1.395	2.382	7.7	20.2
7 10	17 28.14	-46 10.3	1.928	2.838	11.1	18.5	7 10	17 29.85	-38 10.6	1.459	2.404	11.5	20.4
7 20	17 17.90	-45 57.0	2.011	2.855	13.6	18.7	7 20	17 20.73	-38 43.4	1.545	2.426	15.0	20.7
7 30	17 11.22	-45 30.6	2.113	2.871	15.8	18.9	7 30	17 15.40	-39 0.9	1.649	2.447	18.0	21.0
128208	2003 <i>SZ</i> ₆₂		6 20.2 152°25	0°3/20.1	18		431379	2007 <i>EQ</i> ₁₂₀		6 20.2 137°29	0°6/20.1	17	
5 21	18 16.76	-23 6.4	2.495	3.384	9.6	19.6	5 21	18 22.69	-24 20.2	2.096	2.981	11.2	21.8
5 31	18 10.93	-22 54.4	2.427	3.385	6.7	19.4	5 31	18 15.24	-24 40.3	2.039	2.995	7.8	21.6
6 10	18 3.74	-22 41.4	2.385	3.386	3.5	19.2	6 10	18 6.03	-24 59.1	2.008	3.008	4.1	21.4
6 20	17 55.81	-22 27.3	2.370	3.387	0.3	18.9	6 20	17 55.89	-25 14.6	2.004	3.020	0.6	21.1
6 30	17 47.89	-22 12.4	2.384	3.387	3.4	19.2	6 30	17 45.80	-25 25.9	2.030	3.032	3.9	21.4
7 10	17 40.74	-21 57.6	2.426	3.388	6.6	19.4	7 10	17 36.76	-25 33.2	2.082	3.043	7.6	21.7
7 20	17 34.96	-21 43.8	2.493	3.389	9.5	19.6	7 20	17 29.51	-25 37.5	2.161	3.053	10.8	21.9
7 30	17 31.01	-21 32.1	2.583	3.389	12.0	19.7	7 30	17 24.59	-25 40.4	2.260	3.063	13.6	22.1
371864	2008 <i>BZ</i> ₃₇		6 20.2 10°17	6°0/20.5	17		<						

EPHEMERIDES

6 20.2

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
82897	2001 <i>QM</i> ₈₉		6 20.2 322°43	1°3/19.9	18		400502	2008 <i>KK</i> ₁₅		6 20.2 263°64	2°6/20.4	18	
5 21	18 19.77	-24 15.5	1.845	2.741	12.0	18.9	5 21	18 16.78	-13 50.8	2.538	3.416	9.8	21.2
5 31	18 13.63	-25 7.1	1.775	2.735	8.5	18.7	5 31	18 11.06	-14 4.2	2.453	3.401	7.2	21.0
6 10	18 5.40	-25 59.8	1.729	2.730	4.5	18.5	6 10	18 3.92	-14 24.0	2.394	3.386	4.4	20.8
6 20	17 55.88	-26 50.1	1.710	2.725	1.3	18.2	6 20	17 55.91	-14 49.9	2.362	3.371	2.6	20.7
6 30	17 46.15	-27 35.1	1.718	2.721	4.5	18.4	6 30	17 47.74	-15 21.2	2.359	3.355	4.2	20.8
7 10	17 37.35	-28 13.2	1.753	2.716	8.6	18.7	7 10	17 40.14	-15 56.9	2.384	3.339	7.1	20.9
7 20	17 30.43	-28 44.4	1.812	2.712	12.2	18.9	7 20	17 33.77	-16 35.7	2.435	3.324	9.9	21.1
7 30	17 26.09	-29 9.9	1.891	2.708	15.3	19.1	7 30	17 29.14	-17 16.8	2.508	3.307	12.5	21.2
499080	2009 <i>FE</i> ₄		6 20.2 100°94	5°2/20.4	17		149428	2003 <i>BM</i> ₄₅		6 20.2 187°77	0°7/20.2	18	
5 21	18 20.97	-11 12.4	1.415	2.306	15.3	20.9	5 21	18 18.29	-21 0.2	2.314	3.202	10.2	20.8
5 31	18 14.55	-11 2.9	1.359	2.310	11.4	20.7	5 31	18 12.14	-21 4.5	2.245	3.202	7.2	20.6
6 10	18 5.86	-11 6.1	1.326	2.315	7.5	20.5	6 10	18 4.46	-21 10.0	2.201	3.201	3.8	20.4
6 20	17 55.89	-11 22.7	1.316	2.319	5.3	20.4	6 20	17 55.92	-21 15.9	2.184	3.200	0.7	20.1
6 30	17 45.92	-11 52.1	1.331	2.324	7.1	20.5	6 30	17 47.34	-21 21.8	2.196	3.199	3.6	20.4
7 10	17 37.21	-12 32.4	1.370	2.328	11.0	20.7	7 10	17 39.55	-21 27.8	2.236	3.198	7.1	20.6
7 20	17 30.76	-13 20.8	1.432	2.332	14.8	20.9	7 20	17 33.23	-21 34.2	2.301	3.196	10.2	20.8
7 30	17 27.17	-14 14.6	1.512	2.337	18.1	21.2	7 30	17 28.89	-21 41.7	2.388	3.194	12.8	21.0
507851	2014 <i>GX</i> ₃₅		6 20.2 73°74	7°8/20.2	18		508561	2016 <i>UR</i> ₁₄₅		6 20.2 149°88	3°8/20.1	18	
5 21	18 16.08	-1 11.8	2.114	2.962	12.7	21.0	5 21	18 19.98	-34 16.3	2.380	3.257	10.4	21.0
5 31	18 10.55	-0 33.0	2.058	2.966	10.5	20.9	5 31	18 13.46	-34 50.7	2.315	3.258	7.7	20.8
6 10	18 3.59	-0 9.6	2.025	2.971	8.6	20.8	6 10	18 5.20	-35 17.6	2.274	3.260	5.1	20.7
6 20	17 55.86	-0 3.9	2.016	2.977	7.8	20.7	6 20	17 55.94	-35 34.4	2.261	3.262	3.8	20.6
6 30	17 48.15	-0 16.7	2.033	2.982	8.5	20.8	6 30	17 46.64	-35 39.7	2.276	3.263	5.1	20.7
7 10	17 41.24	-0 46.8	2.074	2.987	10.3	20.9	7 10	17 38.24	-35 34.0	2.317	3.264	7.7	20.8
7 20	17 35.77	-1 31.5	2.138	2.992	12.5	21.1	7 20	17 31.51	-35 19.7	2.383	3.266	10.4	21.0
7 30	17 32.22	-2 27.3	2.223	2.997	14.6	21.2	7 30	17 27.00	-34 59.6	2.471	3.267	12.7	21.2
310144	2011 <i>KQ</i> ₁₁		6 20.2 22°03	8°0/18.9	17		161342	2003 <i>SQ</i> ₄₄		6 20.2 256°00	0°6/20.2	17	
5 21	18 17.19	-10 14.6	1.254	2.155	16.2	19.3	5 21	18 20.29	-25 32.5	1.906	2.800	11.8	19.9
5 31	18 11.87	-8 33.0	1.214	2.165	12.5	19.1	5 31	18 13.86	-25 26.6	1.833	2.792	8.3	19.6
6 10	18 4.41	-7 3.9	1.194	2.176	9.2	19.0	6 10	18 5.48	-25 17.7	1.784	2.785	4.4	19.4
6 20	17 55.87	-5 53.6	1.197	2.188	8.0	19.0	6 20	17 55.96	-25 4.8	1.762	2.777	0.6	19.1
6 30	17 47.55	-5 6.3	1.224	2.201	9.8	19.1	6 30	17 46.36	-24 47.9	1.766	2.770	4.2	19.3
7 10	17 40.66	-4 43.2	1.272	2.216	13.0	19.3	7 10	17 37.78	-24 28.3	1.798	2.762	8.3	19.6
7 20	17 36.04	-4 42.3	1.341	2.231	16.3	19.6	7 20	17 31.07	-24 8.0	1.853	2.754	11.9	19.8
7 30	17 34.20	-4 59.5	1.426	2.247	19.2	19.8	7 30	17 26.83	-23 49.2	1.930	2.746	15.0	20.0
131478	2001 <i>RV</i> ₉₅		6 20.2 222°36	1°2/20.2	17		504770	2009 <i>WJ</i> ₂₀₈		6 20.2 78°78	0°1/20.2	17	
5 21	18 23.33	-20 29.1	1.543	2.440	13.9	20.8	5 21	18 21.57	-24 43.9	1.666	2.563	13.0	21.0
5 31	18 16.31	-20 29.2	1.473	2.433	9.9	20.5	5 31	18 14.72	-24 24.0	1.613	2.574	9.1	20.8
6 10	18 6.86	-20 31.5	1.425	2.426	5.3	20.2	6 10	18 5.85	-24 1.2	1.584	2.585	4.7	20.6
6 20	17 55.93	-20 34.9	1.403	2.418	1.2	19.9	6 20	17 55.96	-23 35.3	1.580	2.597	0.1	20.2
6 30	17 44.83	-20 39.0	1.407	2.410	5.1	20.2	6 30	17 46.25	-23 7.3	1.604	2.608	4.5	20.6
7 10	17 34.92	-20 43.9	1.436	2.401	9.9	20.4	7 10	17 37.85	-22 39.2	1.653	2.619	8.7	20.9
7 20	17 27.28	-20 50.5	1.489	2.392	14.2	20.7	7 20	17 31.58	-22 13.2	1.726	2.630	12.5	21.1
7 30	17 22.62	-20 59.6	1.561	2.382	17.8	20.9	7 30	17 27.97	-21 51.2	1.819	2.641	15.6	21.4
72411	2001 <i>CP</i> ₂₈		6 20.2 208°34	4°1/20.1	17		351987	2006 <i>UK</i> ₁₃₆		6 20.2 43°70	1°3/20.0	18	
5 21	18 24.89	-32 15.8	1.642	2.530	13.7	19.6	5 21	18 18.25	-21 3.7	2.050	2.943	11.1	20.7
5 31	18 17.49	-32 55.1	1.575	2.527	10.0	19.3	5 31	18 12.19	-20 35.2	1.986	2.945	7.8	20.5
6 10	18 7.50	-33 26.4	1.532	2.524	6.3	19.1	6 10	18 4.50	-20 6.8	1.946	2.947	4.2	20.3
6 20	17 55.94	-33 45.3	1.514	2.520	4.1	19.0	6 20	17 55.94	-19 39.0	1.934	2.949	1.3	20.1
6 30	17 44.24	-33 49.3	1.522	2.516	6.3	19.1	6 30	17 47.43	-19 12.9	1.949	2.951	4.1	20.3
7 10	17 33.86	-33 39.5	1.556	2.512	10.0	19.3	7 10	17 39.87	-18 49.9	1.991	2.953	7.8	20.5
7 20	17 25.94	-33 19.5	1.613	2.507	13.8	19.5	7 20	17 33.95	-18 31.1	2.057	2.955	11.1	20.7
7 30	17 21.21	-32 53.8	1.689	2.502	17.0	19.7	7 30	17 30.19	-18 17.4	2.145	2.958	13.9	20.9
237926	2002 <i>PH</i> ₁₈₃		6 20.2 71°74	1°9/20.2	17		21811	Burroughs		6 20.2 163°13	2°0/20.2	18	
5 21	18 20.47	-28 2.5	1.844	2.737	12.1	20.9	5 21	18 18.74	-29 56.2	2.622	3.503	9.4	19.4
5 31	18 13.99	-28 16.3	1.782	2.740	8.6	20.7	5 31	18 12.38	-30 12.1	2.555	3.506	6.7	19.3
6 10	18 5.51	-28 25.7	1.744	2.743	4.7	20.5	6 10	18 4.56	-30 23.3	2.514	3.509	3.9	19.1
6 20	17 55.91	-28 28.6	1.733	2.747	1.9	20.3	6 20	17 55.95	-30 28.3	2.501	3.511	2.0	19.0
6 30	17 46.31	-28 24.3	1.748	2.750	4.6	20.5	6 30	17 47.32	-30 26.5	2.516	3.514	3.8	19.1
7 10	17 37.84	-28 13.7	1.790	2.753	8.4	20.7	7 10	17 39.48	-30 18.5	2.560	3.516	6.6	19.3
7 20	17 31.36	-27 59.0	1.855	2.756	11.9	21.0	7 20	17 33.07	-30 5.9	2.629	3.518	9.3	19.4
7 30	17 27.45	-27 42.8	1.941	2.759	14.9	21.2	7 30	17 28.58	-29 50.5	2.720	3.519	11.6	19.6
316961	2001 <i>FM</i> ₃₀		6 20.2 152°36	0°3/20.2	18		118876	2000 <i>TB</i> ₄₁		6 20.2 236°99	2°1/20.1	18	
5 21	18 21.52	-25 55.5	2.117	3.005	11.1	20.1	5 21	18 17.27	-17 22.2	2.334	3.220	10.2	20.2
5 31	18 14.40	-25 30.5	2.054	3.010	7.8	19.9	5 31	18 11.42	-17 5.4	2.260	3.214	7.3	20.0
6 10	18 5.59	-25 1.5	2.015	3.015	4.0	19.7	6 10	18 4.10	-16 51.6	2.211	3.207	4.2	19.8
6 20	17 55.92	-24 28.4	2.004	3.020	0.4	19.4	6 20	17 55.94	-16 41.1	2.189	3.200	2.1	19.7
6 30	17 46.35	-23 52.3	2.022	3.025	3.9	19.7	6 30	17 47.72	-16 34.5	2.195	3.193	4.2	19.8
7 10	17 37.83	-23 15.1	2.067	3.029	7.5	19.9	7 10	17 40.24	-16 32.0	2.229	3.186	7.4	20.0
7 20	17 31.09	-22 39.4	2.138	3.033	10.8	20.1	7 20	17 34.16	-16 34.0	2.287	3.179	10.4	20.2
7 30	17 26.60	-22 7.1	2.230	3.036	13.6	20.3	7 30	17 29.97	-16 40.2	2.368	3.171	13.0	20.3
284807	2008 <i>YH</i> ₁₂₇		6 20.2 294°03	0°5/20.2	18		394001	2005 <i>UV</i> _{516</}					

EPHEMERIDES

6 20.2

6 20.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
181345	2006 <i>RC</i> ₇	6 20.2 190°20		0°7/20.2 17			370914	2005 <i>JA</i> ₁₆₀	6 20.2 0°39		0°3/20.2 17		
5 21	18 22.20	-21 46.3	1.782	2.675	12.6	21.3	5 21	18 17.85	-24 1.7	1.080	2.001	16.4	20.5
5 31	18 15.23	-21 44.7	1.715	2.674	8.8	21.1	5 31	18 13.05	-24 1.4	1.026	1.998	11.6	20.2
6 10	18 6.19	-21 43.6	1.672	2.673	4.6	20.9	6 10	18 5.37	-24 0.0	0.992	1.996	6.0	19.9
6 20	17 55.98	-21 42.1	1.656	2.672	0.7	20.5	6 20	17 56.00	-23 55.9	0.980	1.996	0.3	19.4
6 30	17 45.72	-21 39.9	1.666	2.670	4.5	20.8	6 30	17 46.59	-23 49.0	0.990	1.997	5.8	19.8
7 10	17 36.56	-21 37.5	1.704	2.667	8.7	21.1	7 10	17 38.82	-23 40.4	1.022	1.999	11.4	20.2
7 20	17 29.39	-21 36.1	1.765	2.664	12.5	21.3	7 20	17 33.89	-23 32.2	1.074	2.002	16.2	20.4
7 30	17 24.82	-21 36.7	1.846	2.661	15.7	21.5	7 30	17 32.48	-23 26.2	1.143	2.006	20.3	20.7
65678	1989 <i>SU</i> ₂	6 20.2 299°24		0°2/20.2 18			245134	2004 <i>RT</i> ₉₅	6 20.2 335°74		5°6/19.9 18		
5 21	18 21.01	-22 53.1	1.320	2.227	15.0	19.4	5 21	18 15.59	- 8 25.5	2.035	2.911	12.0	19.9
5 31	18 15.26	-23 13.1	1.240	2.206	10.7	19.1	5 31	18 10.37	- 7 53.7	1.969	2.906	9.3	19.7
6 10	18 6.61	-23 35.2	1.181	2.184	5.6	18.7	6 10	18 3.61	- 7 32.2	1.925	2.902	6.7	19.5
6 20	17 56.00	-23 56.7	1.147	2.163	0.3	18.2	6 20	17 55.97	- 7 22.9	1.907	2.898	5.6	19.5
6 30	17 44.88	-24 15.4	1.136	2.142	5.6	18.6	6 30	17 48.28	- 7 26.6	1.916	2.894	6.7	19.5
7 10	17 34.92	-24 30.7	1.150	2.121	11.1	18.8	7 10	17 41.37	- 7 43.1	1.949	2.890	9.3	19.7
7 20	17 27.47	-24 43.3	1.184	2.100	16.1	19.0	7 20	17 35.95	- 8 10.6	2.006	2.887	12.1	19.8
7 30	17 23.50	-24 55.0	1.236	2.080	20.3	19.3	7 30	17 32.53	- 8 47.1	2.083	2.884	14.6	20.0
4301	Boydén	6 20.2 103°11		0°6/20.2 18			96321	1997 <i>CW</i> ₁₆	6 20.2 244°14		7°1/20.7 18		
5 21	18 18.59	-25 2.5	2.311	3.200	10.2	17.5	5 21	18 18.82	- 2 39.3	2.048	2.898	12.9	19.8
5 31	18 12.32	-25 12.6	2.253	3.210	7.1	17.3	5 31	18 12.69	- 2 28.1	1.971	2.886	10.5	19.6
6 10	18 4.55	-25 20.9	2.220	3.220	3.7	17.1	6 10	18 4.86	- 2 32.7	1.917	2.874	8.2	19.5
6 20	17 55.97	-25 26.2	2.214	3.230	0.6	16.9	6 20	17 56.00	- 2 54.6	1.888	2.862	7.2	19.4
6 30	17 47.43	-25 28.2	2.237	3.240	3.6	17.1	6 30	17 46.97	- 3 34.2	1.886	2.849	8.0	19.4
7 10	17 39.78	-25 27.2	2.287	3.250	6.9	17.4	7 10	17 38.67	- 4 29.5	1.909	2.836	10.3	19.5
7 20	17 33.66	-25 24.3	2.363	3.259	9.9	17.6	7 20	17 31.89	- 5 37.4	1.956	2.823	13.0	19.7
7 30	17 29.57	-25 20.7	2.461	3.269	12.4	17.8	7 30	17 27.20	- 6 54.2	2.024	2.809	15.5	19.8
139833	2001 <i>RT</i> ₃₅	6 20.2 249°69		3°2/20.4 18			17202	2000 <i>AJ</i> ₆₄	6 20.2 18°36		3°1/20.5 18		
5 21	18 21.09	-33 9.0	2.179	3.060	11.1	20.0	5 21	18 18.07	-14 17.5	1.613	2.508	13.5	17.2
5 31	18 14.35	-33 17.4	2.103	3.051	8.1	19.8	5 31	18 12.43	-14 36.7	1.555	2.511	9.8	17.0
6 10	18 5.72	-33 17.6	2.051	3.042	5.1	19.6	6 10	18 4.79	-15 5.3	1.519	2.515	5.8	16.8
6 20	17 55.99	-33 7.5	2.027	3.033	3.2	19.5	6 20	17 56.01	-15 42.4	1.508	2.519	3.1	16.6
6 30	17 46.20	-32 46.6	2.030	3.024	4.9	19.6	6 30	17 47.17	-16 26.2	1.524	2.524	5.4	16.8
7 10	17 37.40	-32 16.4	2.059	3.015	8.0	19.7	7 10	17 39.40	-17 14.5	1.565	2.529	9.3	17.0
7 20	17 30.40	-31 39.8	2.114	3.005	11.1	19.9	7 20	17 33.57	-18 5.1	1.629	2.535	13.0	17.2
7 30	17 25.81	-31 0.4	2.190	2.996	13.9	20.1	7 30	17 30.30	-18 56.4	1.713	2.541	16.2	17.5
262655	2006 <i>WL</i> ₉₀	6 20.2 70°51		1°2/20.4 18			183554	2003 <i>JP</i> ₁₁	6 20.2 189°07		1°9/20.5 18		
5 21	18 20.32	-29 1.9	2.191	3.078	10.8	19.7	5 21	18 17.83	-15 54.0	2.263	3.147	10.6	20.2
5 31	18 13.50	-28 30.9	2.133	3.088	7.6	19.5	5 31	18 11.88	-16 21.3	2.194	3.147	7.6	20.0
6 10	18 5.11	-27 53.7	2.101	3.099	4.1	19.3	6 10	18 4.39	-16 54.6	2.151	3.147	4.3	19.8
6 20	17 55.98	-27 10.4	2.096	3.110	1.2	19.1	6 20	17 56.00	-17 32.7	2.134	3.147	1.9	19.7
6 30	17 47.03	-26 22.3	2.119	3.121	3.8	19.4	6 30	17 47.52	-18 14.0	2.146	3.147	4.0	19.8
7 10	17 39.16	-25 32.0	2.170	3.132	7.2	19.6	7 10	17 39.78	-18 57.2	2.186	3.147	7.3	20.0
7 20	17 33.02	-24 42.5	2.247	3.144	10.3	19.8	7 20	17 33.48	-19 40.9	2.252	3.147	10.4	20.2
7 30	17 29.06	-23 56.3	2.345	3.155	12.9	20.0	7 30	17 29.13	-20 24.3	2.339	3.146	13.0	20.4
355133	2006 <i>UK</i> ₂₀₃	6 20.2 226°85		4°1/20.3 18			325807	2010 <i>RE</i> ₁₀₅	6 20.2 123°81		2°2/20.1 17		
5 21	18 21.53	-36 23.0	2.438	3.307	10.5	21.3	5 21	18 21.73	-18 45.2	1.520	2.418	14.0	21.2
5 31	18 14.58	-36 44.2	2.362	3.299	7.9	21.1	5 31	18 15.05	-18 30.5	1.462	2.423	9.9	21.0
6 10	18 5.81	-36 56.1	2.311	3.292	5.4	20.9	6 10	18 6.16	-18 19.3	1.427	2.427	5.5	20.7
6 20	17 56.00	-36 56.2	2.287	3.283	4.1	20.9	6 20	17 56.05	-18 11.6	1.417	2.431	2.2	20.5
6 30	17 46.11	-36 43.5	2.291	3.275	5.3	20.9	6 30	17 45.97	-18 7.9	1.434	2.435	5.3	20.8
7 10	17 37.14	-36 19.2	2.321	3.266	7.8	21.1	7 10	17 37.17	-18 8.4	1.475	2.439	9.7	21.0
7 20	17 29.89	-35 46.0	2.377	3.257	10.5	21.2	7 20	17 30.59	-18 13.7	1.539	2.443	13.7	21.3
7 30	17 24.93	-35 7.7	2.455	3.248	12.9	21.4	7 30	17 26.82	-18 23.6	1.622	2.447	17.1	21.5
266894	2009 <i>WR</i> ₈₁	6 20.2 221°81		2°5/20.3 18			515263	2012 <i>RR</i> ₂₂	6 20.2 262°95		2°1/20.1 18		
5 21	18 14.80	-13 12.6	3.075	3.948	8.4	21.1	5 21	18 20.10	-17 37.9	2.182	3.066	10.9	22.4
5 31	18 9.46	-13 14.6	2.997	3.941	6.2	20.9	5 31	18 13.67	-17 26.2	2.088	3.041	7.9	22.2
6 10	18 3.02	-13 21.7	2.946	3.934	3.9	20.8	6 10	18 5.43	-17 17.5	2.019	3.016	4.5	21.9
6 20	17 55.95	-13 34.1	2.922	3.927	2.5	20.7	6 20	17 56.04	-17 11.8	1.977	2.990	2.1	21.7
6 30	17 48.82	-13 51.4	2.928	3.920	3.8	20.8	6 30	17 46.38	-17 9.5	1.964	2.963	4.5	21.8
7 10	17 42.20	-14 13.2	2.962	3.913	6.1	20.9	7 10	17 37.40	-17 10.9	1.978	2.936	8.1	22.0
7 20	17 36.58	-14 38.8	3.023	3.905	8.4	21.0	7 20	17 29.91	-17 16.4	2.017	2.907	11.6	22.2
7 30	17 32.36	-15 7.5	3.106	3.897	10.5	21.2	7 30	17 24.57	-17 26.0	2.078	2.879	14.6	22.3
55537	2001 <i>WM</i> ₃₇	6 20.2 320°62		1°4/20.0 18			231918	2001 <i>BR</i> ₅₆	6 20.2 118°60		0°3/20.2 17		
5 21	18 19.32	-25 30.1	2.000	2.893	11.4	19.2	5 21	18 19.98	-21 50.3	1.835	2.730	12.1	20.0
5 31	18 13.19	-26 9.6	1.931	2.890	8.0	19.0	5 31	18 13.66	-22 5.0	1.772	2.732	8.5	19.8
6 10	18 5.17	-26 48.3	1.887	2.887	4.3	18.8	6 10	18 5.40	-22 21.0	1.733	2.734	4.4	19.6
6 20	17 55.99	-27 23.4	1.870	2.885	1.4	18.5	6 20	17 56.04	-22 36.7	1.720	2.736	0.3	19.2
6 30	17 46.68	-27 53.0	1.880	2.882	4.3	18.8	6 30	17 46.64	-22 51.1	1.734	2.738	4.2	19.6
7 10	17 38.27	-28 16.2	1.917	2.879	8.0	19.0	7 10	17 38.26	-23 4.0	1.775	2.740	8.3	19.8
7 20	17 31.62	-28 33.7	1.978	2.877	11.4	19.2	7 20	17 31.76	-23 15.8	1.840	2.742	11.9	20.0
7 30	17 27.34	-28 46.8	2.061	2.875	14.3	19.4	7 30	17 27.72	-23 27.4	1.925	2.744	15.0	20.2
437463	2013 <i>YD</i> ₂₈	6 20.2 120°49		1°8/20.3 17			180138	2003 <i>FE</i> ₁₀₃	6 20.2 2°22		1°0/20.2 17		

EPHEMERIDES

6 20.2

6 20.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
95470	2002 <i>DW</i> ₁₈		6 20.2 299°47'	8°6/20.1	17		506980	2008 <i>SE</i> ₁₆₂		6 20.2 240°51'	2°3/20.2	18	
5 21	18 17.64	- 3 16.4	1.626	2.493	14.9	19.4	5 21	18 22.43	-29 44.8	2.300	3.180	10.6	22.3
5 31	18 12.28	- 2 41.1	1.547	2.472	12.2	19.1	5 31	18 15.33	-30 6.5	2.212	3.163	7.6	22.1
6 10	18 4.83	- 2 23.0	1.490	2.452	9.7	18.9	6 10	18 6.32	-30 23.6	2.151	3.146	4.4	21.8
6 20	17 56.04	- 2 25.8	1.455	2.431	8.6	18.8	6 20	17 56.11	-30 33.6	2.116	3.127	2.3	21.7
6 30	17 46.96	- 2 51.0	1.445	2.411	9.7	18.8	6 30	17 45.67	-30 35.0	2.111	3.108	4.4	21.8
7 10	17 38.72	- 3 37.7	1.458	2.391	12.4	19.0	7 10	17 36.03	-30 28.3	2.133	3.089	7.7	21.9
7 20	17 32.28	- 4 42.3	1.492	2.371	15.6	19.1	7 20	17 28.06	-30 15.4	2.181	3.069	11.0	22.1
7 30	17 28.38	- 6 0.2	1.546	2.352	18.6	19.3	7 30	17 22.38	-29 59.0	2.250	3.048	13.8	22.3
64959	2001 <i>YW</i> ₁₃₄		6 20.2 140°79'	3°1/20.2	18		163889	2003 <i>SS</i> ₁₉₆		6 20.2 231°69'	2°2/20.3	18	
5 21	18 16.80	-11 57.1	3.028	3.895	8.7	21.7	5 21	18 21.29	-29 36.0	2.084	2.970	11.3	20.4
5 31	18 10.74	-11 42.5	2.970	3.909	6.4	21.5	5 31	18 14.55	-29 45.1	2.009	2.963	8.1	20.1
6 10	18 3.65	-11 33.4	2.938	3.922	4.2	21.4	6 10	18 5.88	-29 48.6	1.959	2.956	4.6	19.9
6 20	17 56.02	-11 30.0	2.935	3.934	3.1	21.3	6 20	17 56.10	-29 44.5	1.936	2.948	2.2	19.7
6 30	17 48.44	-11 32.8	2.960	3.947	4.2	21.4	6 30	17 46.23	-29 32.4	1.940	2.940	4.4	19.9
7 10	17 41.49	-11 41.4	3.015	3.958	6.3	21.6	7 10	17 37.34	-29 13.3	1.972	2.932	8.0	20.1
7 20	17 35.62	-11 55.3	3.095	3.969	8.5	21.7	7 20	17 30.26	-28 49.5	2.028	2.923	11.3	20.3
7 30	17 31.20	-12 13.7	3.199	3.979	10.4	21.9	7 30	17 25.60	-28 24.0	2.105	2.914	14.2	20.4
111850	2002 <i>EL</i> ₄₁		6 20.2 128°61'	7°1/20.1	18		296114	2009 <i>BG</i> ₅₅		6 20.2 331°64'	3°1/20.4	18	
5 21	18 16.00	- 0 0.5	2.561	3.394	11.2	20.0	5 21	18 20.66	-31 33.6	1.835	2.725	12.4	20.6
5 31	18 10.34	+ 0 37.6	2.507	3.404	9.3	19.9	5 31	18 14.28	-31 45.4	1.768	2.722	9.0	20.4
6 10	18 3.49	+ 1 2.2	2.477	3.413	7.7	19.8	6 10	18 5.79	-31 49.7	1.725	2.719	5.4	20.2
6 20	17 56.02	+ 1 11.3	2.472	3.423	7.1	19.8	6 20	17 56.10	-31 43.9	1.707	2.716	3.1	20.0
6 30	17 48.59	+ 1 4.2	2.494	3.431	7.7	19.8	6 30	17 46.38	-31 27.4	1.716	2.714	5.2	20.2
7 10	17 41.85	+ 0 41.8	2.541	3.440	9.2	19.9	7 10	17 37.80	-31 2.0	1.751	2.712	8.7	20.4
7 20	17 36.32	+ 0 6.2	2.611	3.448	11.0	20.1	7 20	17 31.30	-30 30.6	1.809	2.709	12.2	20.6
7 30	17 32.42	- 0 39.9	2.702	3.456	12.8	20.2	7 30	17 27.46	-29 56.9	1.888	2.707	15.2	20.8
178733	2000 <i>SP</i> ₃₅₉		6 20.2 325°88'	0°9/20.3	18		510329	2011 <i>SY</i> ₄₇		6 20.2 309°49'	9°2/19.9	18	
5 21	18 19.07	-27 26.8	1.887	2.782	11.8	19.5	5 21	18 24.86	-45 48.2	1.826	2.678	14.2	21.1
5 31	18 13.04	-27 4.0	1.815	2.774	8.4	19.3	5 31	18 17.88	-46 47.6	1.754	2.663	11.9	20.9
6 10	18 5.08	-26 35.7	1.766	2.767	4.5	19.0	6 10	18 7.95	-47 29.6	1.703	2.649	10.0	20.7
6 20	17 56.05	-26 1.4	1.744	2.759	1.0	18.8	6 20	17 56.15	-47 47.7	1.676	2.635	9.2	20.6
6 30	17 47.01	-25 22.3	1.748	2.752	4.2	19.0	6 30	17 44.08	-47 38.5	1.673	2.621	10.0	20.7
7 10	17 39.01	-24 40.6	1.779	2.745	8.2	19.2	7 10	17 33.43	-47 3.6	1.693	2.608	12.1	20.8
7 20	17 32.90	-23 59.2	1.834	2.739	11.9	19.4	7 20	17 25.51	-46 8.5	1.734	2.595	14.6	20.9
7 30	17 29.23	-23 20.9	1.910	2.733	15.0	19.6	7 30	17 21.12	-45 0.4	1.795	2.582	17.1	21.0
188517	2004 <i>RP</i> ₅₇		6 20.2 269°82'	7°3/19.4	18		257027	2008 <i>FU</i> ₃₂		6 20.2 191°53'	0°8/20.2	17	
5 21	18 15.55	- 0 29.1	2.521	3.358	11.2	20.1	5 21	18 23.35	-25 22.2	1.839	2.730	12.3	22.0
5 31	18 10.20	+ 0 15.6	2.440	3.339	9.4	20.0	5 31	18 16.08	-25 27.7	1.771	2.728	8.7	21.8
6 10	18 3.52	+ 0 47.8	2.382	3.321	7.9	19.9	6 10	18 6.71	-25 30.6	1.727	2.727	4.6	21.6
6 20	17 56.03	+ 1 4.7	2.350	3.302	7.3	19.8	6 20	17 56.13	-25 29.2	1.709	2.725	0.8	21.3
6 30	17 48.40	+ 1 4.9	2.344	3.282	8.1	19.8	6 30	17 45.50	-25 23.0	1.719	2.722	4.4	21.5
7 10	17 41.34	+ 0 48.5	2.362	3.263	9.7	19.9	7 10	17 35.98	-25 12.9	1.756	2.719	8.6	21.8
7 20	17 35.45	+ 0 17.1	2.404	3.243	11.8	20.0	7 20	17 28.49	-25 0.9	1.817	2.715	12.3	22.0
7 30	17 31.22	- 0 26.9	2.467	3.224	13.8	20.1	7 30	17 23.64	-24 49.0	1.898	2.710	15.4	22.2
208513	2001 <i>XH</i> ₁₀₇		6 20.2 260°14'	0°4/20.2	17		348519	2005 <i>UK</i> ₅₃		6 20.2 305°34'	6°5/19.3	18	R
5 21	18 23.08	-22 33.1	1.445	2.346	14.4	20.9	5 21	18 16.19	- 7 34.3	1.975	2.848	12.4	20.1
5 31	18 16.42	-22 31.1	1.370	2.332	10.2	20.6	5 31	18 10.97	- 6 39.0	1.893	2.827	9.8	19.9
6 10	18 7.10	-22 29.0	1.317	2.319	5.4	20.3	6 10	18 4.05	- 5 53.2	1.835	2.807	7.5	19.7
6 20	17 56.11	-22 25.7	1.288	2.304	0.5	19.9	6 20	17 56.09	- 5 20.2	1.802	2.786	6.5	19.6
6 30	17 44.84	-22 20.7	1.286	2.290	5.3	20.2	6 30	17 47.94	- 5 2.2	1.795	2.766	7.8	19.6
7 10	17 34.79	-22 14.7	1.308	2.275	10.4	20.4	7 10	17 40.52	- 5 0.1	1.813	2.746	10.4	19.7
7 20	17 27.14	-22 9.5	1.352	2.260	15.0	20.7	7 20	17 34.61	- 5 13.0	1.853	2.726	13.3	19.9
7 30	17 22.69	-22 6.9	1.415	2.245	18.9	20.9	7 30	17 30.79	- 5 39.0	1.913	2.706	16.0	20.0
172965	2005 <i>MX</i> ₃₈		6 20.2 295°78'	0°9/20.2	18		35691	1999 <i>CE</i> ₂₆		6 20.2 191°61'	1°1/20.2	18	
5 21	18 15.22	-26 43.0	2.936	3.822	8.4	19.6	5 21	18 18.59	-20 17.6	2.013	2.906	11.3	19.4
5 31	18 9.92	-26 43.9	2.849	3.804	5.9	19.4	5 31	18 12.57	-20 17.8	1.947	2.906	8.0	19.2
6 10	18 3.35	-26 42.4	2.787	3.786	3.2	19.2	6 10	18 4.83	-20 20.0	1.905	2.905	4.2	19.0
6 20	17 56.04	-26 37.6	2.753	3.769	0.9	19.0	6 20	17 56.11	-20 23.4	1.890	2.905	1.1	18.8
6 30	17 48.62	-26 29.3	2.749	3.751	3.1	19.2	6 30	17 47.36	-20 27.8	1.902	2.905	4.1	19.0
7 10	17 41.78	-26 18.0	2.772	3.733	5.9	19.3	7 10	17 39.51	-20 33.3	1.941	2.905	7.8	19.2
7 20	17 36.08	-26 4.8	2.821	3.715	8.6	19.5	7 20	17 33.33	-20 40.2	2.005	2.905	11.2	19.4
7 30	17 31.98	-25 51.0	2.893	3.697	10.9	19.6	7 30	17 29.36	-20 49.0	2.090	2.905	14.1	19.6
65081	2002 <i>BS</i> ₁₁		6 20.2 29°53'	4°4/20.6	18		153241	2001 <i>AS</i> ₄₆		6 20.2 155°97'	6°3/19.4	18	
5 21	18 16.56	-10 4.3	2.066	2.944	11.7	18.8	5 21	18 25.12	-45 16.9	3.008	3.836	9.8	20.8
5 31	18 11.04	-10 3.1	2.004	2.946	8.8	18.7	5 31	18 17.12	-46 23.8	2.949	3.843	8.1	20.6
6 10	18 3.97	-10 11.9	1.966	2.950	6.0	18.5	6 10	18 7.22	-47 18.7	2.915	3.850	6.8	20.6
6 20	17 56.05	-10 31.3	1.953	2.953	4.4	18.4	6 20	17 56.17	-47 57.6	2.908	3.856	6.3	20.5
6 30	17 48.10	-11 0.6	1.968	2.956	5.7	18.5	6 30	17 44.94	-48 18.6	2.929	3.862	6.9	20.6
7 10	17 40.97	-11 38.4	2.009	2.960	8.5	18.7	7 10	17 34.56	-48 22.3	2.976	3.867	8.3	20.7
7 20	17 35.33	-12 22.9	2.074	2.964	11.4	18.8	7 20	17 25.87	-48 11.0	3.047	3.872	9.9	20.8
7 30	17 31.69	-13 11.9	2.161	2.968	14.0	19.0	7 30	17 19.49	-47 48.9	3.140	3.876	11.5	20.9
387464	2013 <i>XV</i> ₄		6 20.2 253°09'	2°0/20.4	18		385						

EPHEMERIDES

6 20.2

6 20.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
437035	2012 <i>TN</i> ₃₀₇		6 20.2 260°83	2°3/19.9	18		394038	2005 <i>WE</i> ₈₆		6 20.2 276°57	3°2/19.6	17	
5 21	18 22.00	-27 34.9	2.005	2.893	11.6	20.8	5 21	18 17.76	-15 38.8	2.307	3.190	10.5	21.1
5 31	18 15.30	-28 23.5	1.922	2.877	8.3	20.6	5 31	18 11.87	-14 49.6	2.224	3.174	7.6	20.9
6 10	18 6.45	-29 10.6	1.864	2.862	4.7	20.3	6 10	18 4.47	-14 2.9	2.166	3.157	4.8	20.7
6 20	17 56.20	-29 52.4	1.833	2.845	2.3	20.1	6 20	17 56.19	-13 20.4	2.135	3.141	3.3	20.6
6 30	17 45.60	-30 26.1	1.830	2.829	4.8	20.3	6 30	17 47.80	-12 44.0	2.133	3.124	5.0	20.6
7 10	17 35.82	-30 50.7	1.854	2.812	8.6	20.5	7 10	17 40.13	-12 15.3	2.158	3.107	8.0	20.8
7 20	17 27.86	-31 7.0	1.903	2.795	12.1	20.7	7 20	17 33.86	-11 55.0	2.207	3.090	11.0	21.0
7 30	17 22.46	-31 17.1	1.972	2.778	15.2	20.8	7 30	17 29.49	-11 43.4	2.278	3.073	13.7	21.1
352082	2006 <i>WG</i> ₁₈₈		6 20.2 92°60	1°2/20.1	17		156956	2003 <i>HE</i> ₁₅		6 20.2 319°97	2°5/19.9	18	
5 21	18 18.73	-21 0.1	2.324	3.211	10.2	21.0	5 21	18 21.49	-26 36.6	1.545	2.446	13.7	19.7
5 31	18 12.34	-20 34.6	2.271	3.227	7.1	20.8	5 31	18 15.30	-27 33.3	1.477	2.439	9.7	19.4
6 10	18 4.58	-20 9.3	2.244	3.243	3.8	20.7	6 10	18 6.57	-28 29.3	1.433	2.432	5.4	19.2
6 20	17 56.15	-19 44.8	2.244	3.259	1.2	20.5	6 20	17 56.24	-29 20.0	1.413	2.426	2.5	18.9
6 30	17 47.86	-19 21.9	2.273	3.275	3.7	20.7	6 30	17 45.62	-30 1.3	1.419	2.420	5.5	19.1
7 10	17 40.48	-19 1.6	2.330	3.290	6.9	20.9	7 10	17 36.15	-30 32.1	1.451	2.414	9.9	19.4
7 20	17 34.59	-18 44.8	2.412	3.306	9.8	21.1	7 20	17 28.98	-30 53.2	1.505	2.409	14.0	19.6
7 30	17 30.63	-18 32.3	2.517	3.321	12.3	21.3	7 30	17 24.90	-31 7.0	1.578	2.404	17.4	19.8
147240	2002 <i>XW</i> ₆₀		6 20.2 228°83	0°5/20.2	18		511866	2015 <i>GU</i> ₂₂		6 20.2 48°26	5°5/20.8	18	
5 21	18 22.50	-24 5.3	1.876	2.767	12.1	21.0	5 21	18 18.49	-8 2.1	1.828	2.703	13.2	21.2
5 31	18 15.58	-24 20.7	1.799	2.757	8.5	20.8	5 31	18 12.58	-8 2.0	1.766	2.704	10.1	21.0
6 10	18 6.54	-24 35.4	1.747	2.747	4.5	20.5	6 10	18 4.90	-8 15.2	1.726	2.706	7.1	20.9
6 20	17 56.20	-24 47.5	1.721	2.737	0.5	20.2	6 20	17 56.20	-8 42.2	1.712	2.707	5.5	20.8
6 30	17 45.66	-24 55.7	1.722	2.726	4.4	20.4	6 30	17 47.44	-9 22.3	1.724	2.709	6.7	20.9
7 10	17 36.10	-25 0.2	1.751	2.714	8.6	20.7	7 10	17 39.61	-10 13.2	1.761	2.710	9.6	21.0
7 20	17 28.45	-25 2.0	1.804	2.702	12.3	20.9	7 20	17 33.47	-11 12.2	1.823	2.712	12.7	21.2
7 30	17 23.39	-25 3.0	1.877	2.690	15.6	21.1	7 30	17 29.61	-12 16.3	1.905	2.713	15.5	21.4
274479	2008 <i>SG</i> ₁₀₀		6 20.2 297°03	0°7/20.2	18		427976	2005 <i>YZ</i> ₁₇₁		6 20.2 123°83	1°2/20.1	17	
5 21	18 20.16	-23 58.8	1.673	2.572	12.9	20.2	5 21	18 22.17	-21 12.8	2.159	3.044	11.0	21.8
5 31	18 14.14	-24 21.1	1.599	2.561	9.1	20.0	5 31	18 14.79	-20 44.9	2.106	3.061	7.7	21.6
6 10	18 5.86	-24 43.7	1.549	2.551	4.8	19.7	6 10	18 5.88	-20 16.8	2.079	3.078	4.1	21.4
6 20	17 56.18	-25 4.0	1.524	2.540	0.7	19.4	6 20	17 56.23	-19 49.1	2.079	3.094	1.2	21.2
6 30	17 46.29	-25 20.5	1.526	2.530	4.7	19.6	6 30	17 46.74	-19 22.7	2.108	3.110	4.0	21.4
7 10	17 37.43	-25 32.8	1.553	2.520	9.1	19.9	7 10	17 38.31	-18 58.9	2.166	3.125	7.4	21.7
7 20	17 30.62	-25 41.8	1.603	2.510	13.1	20.1	7 20	17 31.58	-18 39.1	2.248	3.139	10.6	21.9
7 30	17 26.58	-25 49.0	1.674	2.500	16.6	20.3	7 30	17 26.99	-18 24.0	2.353	3.153	13.2	22.1
427139	2014 <i>UK</i> ₁₃₅		6 20.2 231°98	0°9/20.2	17		106210	2000 <i>UA</i> ₃₂		6 20.2 221°91	4°0/19.9	18	
5 21	18 23.94	-25 29.5	1.591	2.486	13.6	22.5	5 21	18 21.14	-34 50.2	2.492	3.364	10.2	20.3
5 31	18 16.86	-25 36.8	1.518	2.478	9.6	22.2	5 31	18 14.40	-35 35.9	2.418	3.359	7.6	20.1
6 10	18 7.29	-25 41.5	1.468	2.469	5.1	21.9	6 10	18 5.86	-36 14.6	2.370	3.353	5.2	19.9
6 20	17 56.22	-25 41.2	1.444	2.460	0.9	21.6	6 20	17 56.24	-36 43.0	2.349	3.347	4.0	19.8
6 30	17 44.96	-25 35.3	1.446	2.450	4.9	21.9	6 30	17 46.44	-36 59.4	2.357	3.340	5.3	19.9
7 10	17 34.91	-25 24.6	1.474	2.440	9.6	22.1	7 10	17 37.45	-37 3.6	2.391	3.334	7.7	20.1
7 20	17 27.16	-25 11.5	1.526	2.429	13.9	22.3	7 20	17 30.06	-36 57.7	2.450	3.327	10.3	20.2
7 30	17 22.45	-24 58.7	1.596	2.418	17.4	22.5	7 30	17 24.90	-36 44.6	2.532	3.320	12.7	20.4
249448	2009 <i>FU</i> ₆₉		6 20.2 356°08	0°6/20.2	17		39051	2000 <i>UB</i> ₉₉		6 20.2 267°75	2°2/20.5	18	R
5 21	18 18.60	-23 56.1	1.932	2.828	11.6	20.4	5 21	18 23.17	-29 21.4	1.229	2.136	15.9	18.4
5 31	18 12.73	-24 17.7	1.866	2.827	8.1	20.2	5 31	18 16.59	-29 6.7	1.176	2.140	11.4	18.1
6 10	18 4.99	-24 39.1	1.825	2.826	4.2	19.9	6 10	18 7.20	-28 42.9	1.143	2.144	6.3	17.8
6 20	17 56.18	-24 58.5	1.809	2.825	0.6	19.7	6 20	17 56.27	-28 8.5	1.134	2.148	2.2	17.6
6 30	17 47.29	-25 14.6	1.821	2.825	4.1	19.9	6 30	17 45.50	-27 24.8	1.149	2.153	5.8	17.8
7 10	17 39.34	-25 27.1	1.860	2.825	8.0	20.2	7 10	17 36.50	-26 35.8	1.187	2.158	10.8	18.1
7 20	17 33.17	-25 36.7	1.922	2.825	11.5	20.4	7 20	17 30.37	-25 46.7	1.247	2.164	15.3	18.4
7 30	17 29.34	-25 44.6	2.006	2.825	14.4	20.6	7 30	17 27.71	-25 1.6	1.325	2.170	19.1	18.7
250740	2005 <i>SU</i> ₁₁₁		6 20.2 192°98	5°9/19.6	18		357011	1999 <i>UB</i> ₃₀		6 20.2 248°35	3°6/20.1	18	
5 21	18 16.20	-5 53.6	2.453	3.312	10.8	20.3	5 21	18 20.12	-33 52.0	2.419	3.296	10.3	21.0
5 31	18 10.61	-5 6.2	2.388	3.311	8.6	20.2	5 31	18 13.70	-34 26.0	2.344	3.288	7.6	20.8
6 10	18 3.74	-4 28.5	2.347	3.310	6.6	20.1	6 10	18 5.50	-34 53.2	2.295	3.281	5.0	20.6
6 20	17 56.17	-4 2.8	2.333	3.309	5.9	20.0	6 20	17 56.25	-35 10.8	2.272	3.273	3.6	20.5
6 30	17 48.58	-3 50.3	2.346	3.308	6.8	20.1	6 30	17 46.86	-35 17.2	2.277	3.266	5.0	20.6
7 10	17 41.67	-3 51.1	2.384	3.306	8.7	20.2	7 10	17 38.29	-35 13.0	2.309	3.258	7.7	20.7
7 20	17 36.02	-4 4.2	2.447	3.305	11.0	20.3	7 20	17 31.35	-35 0.1	2.366	3.250	10.4	20.9
7 30	17 32.07	-4 27.8	2.530	3.303	13.1	20.5	7 30	17 26.60	-34 41.3	2.445	3.242	12.8	21.1
180787	2004 <i>RY</i> ₁₈₉		6 20.2 265°92	6°9/19.2	18		171804	2001 <i>DF</i> ₄₉		6 20.2 164°91	2°5/20.1	18	
5 21	18 15.73	-2 34.0	2.516	3.362	11.0	19.8	5 21	18 24.61	-27 57.0	1.656	2.548	13.4	20.2
5 31	18 10.34	-1 39.3	2.439	3.347	9.0	19.7	5 31	18 17.26	-28 36.2	1.594	2.551	9.5	20.0
6 10	18 3.64	-0 55.4	2.386	3.333	7.5	19.5	6 10	18 7.49	-29 11.7	1.556	2.554	5.4	19.7
6 20	17 56.17	-0 25.3	2.359	3.318	6.9	19.5	6 20	17 56.30	-29 39.5	1.544	2.556	2.5	19.6
6 30	17 48.59	-0 10.6	2.358	3.303	7.7	19.5	6 30	17 45.03	-29 57.2	1.558	2.558	5.3	19.7
7 10	17 41.60	-0 11.7	2.382	3.288	9.5	19.6	7 10	17 35.01	-30 5.1	1.599	2.560	9.4	20.0
7 20	17 35.80	-0 27.5	2.430	3.272	11.6	19.7	7 20	17 27.31	-30 5.3	1.663	2.561	13.2	20.2
7 30	17 31.66	-0 55.8	2.498	3.257	13.6	19.8	7 30	17 22.60	-30 0.9	1.747	2.562	16.4	20.4
242605	2005 <i>JO</i> ₇₂		6 20.2 294°65	1°3/20.2	18		352070	2006 <i></i>					

EPHEMERIDES

6 20.2

6 20.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
311412	2005 <i>UW</i> ₆₀		6 20.2 257°53	1°5/20.2	18		17868	1998 <i>KW</i> ₄₆		6 20.3 321°36	2°6/19.9	18	R
5 21	18 18.76	-27 19.1	2.378	3.265	10.0	20.9	5 21	18 17.60	-18 6.8	2.010	2.902	11.4	17.2
5 31	18 12.69	-27 41.3	2.300	3.255	7.1	20.7	5 31	18 11.91	-17 23.0	1.938	2.895	8.1	17.0
6 10	18 4.97	-28 0.9	2.247	3.246	3.9	20.5	6 10	18 4.57	-16 40.8	1.891	2.888	4.7	16.8
6 20	17 56.25	-28 16.1	2.222	3.236	1.5	20.3	6 20	17 56.29	-16 1.8	1.870	2.881	2.6	16.6
6 30	17 47.40	-28 25.7	2.225	3.226	3.8	20.4	6 30	17 47.98	-15 27.9	1.877	2.874	4.8	16.8
7 10	17 39.30	-28 29.7	2.255	3.216	7.1	20.6	7 10	17 40.54	-15 0.4	1.910	2.868	8.3	17.0
7 20	17 32.68	-28 29.3	2.311	3.206	10.2	20.8	7 20	17 34.72	-14 40.5	1.967	2.862	11.6	17.2
7 30	17 28.12	-28 26.1	2.389	3.195	12.8	21.0	7 30	17 31.03	-14 28.4	2.045	2.856	14.5	17.3
315147	2007 <i>EO</i> ₁₇₃		6 20.2 179°28	1°7/20.2	18		231931	2001 <i>DF</i> ₇₅		6 20.3 235°32	7°1/20.5	18	
5 21	18 16.57	-18 0.9	2.721	3.603	9.1	21.6	5 21	18 18.60	-2 43.6	2.148	2.996	12.5	20.3
5 31	18 10.83	-17 48.8	2.651	3.604	6.4	21.4	5 31	18 12.55	-2 22.6	2.072	2.986	10.1	20.1
6 10	18 3.87	-17 39.1	2.608	3.604	3.6	21.2	6 10	18 4.91	-2 16.0	2.019	2.975	8.0	20.0
6 20	17 56.23	-17 31.8	2.592	3.604	1.7	21.1	6 20	17 56.30	-2 25.8	1.992	2.963	7.1	19.9
6 30	17 48.58	-17 27.2	2.605	3.604	3.5	21.2	6 30	17 47.55	-2 52.5	1.991	2.952	7.9	19.9
7 10	17 41.59	-17 25.5	2.647	3.604	6.3	21.4	7 10	17 39.51	-3 34.9	2.016	2.939	10.0	20.0
7 20	17 35.79	-17 27.0	2.714	3.604	9.0	21.6	7 20	17 32.90	-4 30.4	2.065	2.927	12.6	20.2
7 30	17 31.63	-17 31.6	2.804	3.603	11.3	21.7	7 30	17 28.29	-5 35.6	2.134	2.914	15.0	20.3
424769	2008 <i>TQ</i> ₈₅		6 20.2 314°14	8°4/19.6	18		503541	2016 <i>FF</i> ₂₉		6 20.3 109°44	1°3/20.2	17	
5 21	18 17.84	-4 18.9	1.693	2.561	14.4	21.1	5 21	18 24.04	-20 13.9	1.537	2.432	14.0	22.2
5 31	18 12.24	-3 17.6	1.631	2.557	11.6	20.9	5 31	18 16.64	-20 10.8	1.488	2.447	9.8	21.9
6 10	18 4.78	-2 31.0	1.591	2.552	9.3	20.8	6 10	18 7.06	-20 9.9	1.462	2.462	5.2	21.7
6 20	17 56.25	-2 3.1	1.575	2.548	8.4	20.7	6 20	17 56.35	-20 10.4	1.462	2.477	1.3	21.5
6 30	17 47.67	-1 56.1	1.583	2.544	9.5	20.8	6 30	17 45.80	-20 12.0	1.488	2.491	4.9	21.8
7 10	17 40.04	-2 9.8	1.615	2.540	11.9	20.9	7 10	17 36.65	-20 15.1	1.540	2.505	9.3	22.1
7 20	17 34.20	-2 41.7	1.668	2.537	14.7	21.1	7 20	17 29.80	-20 20.3	1.615	2.518	13.3	22.3
7 30	17 30.71	-3 28.1	1.740	2.533	17.4	21.2	7 30	17 25.78	-20 28.2	1.711	2.531	16.5	22.6
177211	2003 <i>UZ</i> ₁₄₀		6 20.2 274°74	3°7/20.2	18		175713	1996 <i>VX</i> ₁₁		6 20.3 252°98	5°3/20.1	18	
5 21	18 24.23	-31 3.2	1.512	2.407	14.3	20.3	5 21	18 22.24	-37 45.4	2.157	3.027	11.6	20.3
5 31	18 17.45	-31 29.1	1.432	2.389	10.4	20.0	5 31	18 15.42	-38 25.9	2.087	3.023	8.9	20.1
6 10	18 7.82	-31 47.9	1.375	2.371	6.3	19.8	6 10	18 6.50	-38 56.1	2.042	3.018	6.5	19.9
6 20	17 56.34	-31 55.2	1.343	2.352	3.7	19.5	6 20	17 56.34	-39 12.1	2.023	3.013	5.3	19.9
6 30	17 44.47	-31 48.6	1.335	2.334	6.2	19.7	6 30	17 46.05	-39 12.2	2.030	3.008	6.4	19.9
7 10	17 33.85	-31 29.2	1.353	2.315	10.6	19.9	7 10	17 36.81	-38 57.3	2.063	3.004	8.9	20.1
7 20	17 25.77	-31 0.8	1.393	2.296	14.9	20.1	7 20	17 29.53	-38 30.6	2.121	2.999	11.6	20.2
7 30	17 21.09	-30 28.4	1.451	2.277	18.7	20.3	7 30	17 24.85	-37 56.2	2.199	2.994	14.1	20.4
507802	2014 <i>BL</i> ₆₅		6 20.2 187°20	2°5/20.2	17		472716	2015 <i>FD</i> ₄₈		6 20.3 55°99	9°5/21.2	17	
5 21	18 18.88	-16 29.0	1.994	2.882	11.6	21.9	5 21	18 18.99	-0 43.1	1.521	2.381	16.2	21.0
5 31	18 12.79	-16 19.2	1.928	2.882	8.3	21.7	5 31	18 12.96	-0 6.3	1.485	2.401	13.2	20.8
6 10	18 5.01	-16 14.0	1.886	2.882	4.9	21.5	6 10	18 5.08	+0 8.8	1.469	2.421	10.7	20.7
6 20	17 56.27	-16 13.7	1.870	2.881	2.5	21.3	6 20	17 56.30	-0 0.4	1.476	2.442	9.5	20.7
6 30	17 47.49	-16 18.4	1.882	2.881	4.7	21.5	6 30	17 47.71	-0 33.4	1.506	2.463	10.3	20.8
7 10	17 39.60	-16 27.9	1.921	2.880	8.2	21.7	7 10	17 40.36	-1 27.1	1.559	2.484	12.3	21.0
7 20	17 33.36	-16 41.8	1.983	2.879	11.5	21.9	7 20	17 34.98	-2 36.5	1.634	2.505	14.9	21.2
7 30	17 29.30	-16 59.8	2.067	2.878	14.4	22.1	7 30	17 32.07	-3 56.1	1.728	2.526	17.3	21.4
211192	2002 <i>LR</i> ₁₀		6 20.3 19°57	3°2/20.2	17		179340	2001 <i>XH</i> ₆₄		6 20.3 225°51	2°0/20.4	18	
5 21	18 18.97	-17 37.3	1.102	2.018	16.6	19.5	5 21	18 18.07	-16 5.7	2.389	3.271	10.2	20.5
5 31	18 13.68	-17 17.7	1.055	2.022	11.9	19.3	5 31	18 12.10	-16 18.6	2.313	3.265	7.3	20.3
6 10	18 5.73	-17 4.7	1.027	2.028	6.8	19.0	6 10	18 4.64	-16 36.5	2.263	3.258	4.2	20.1
6 20	17 56.30	-16 59.2	1.022	2.035	3.2	18.8	6 20	17 56.30	-16 58.8	2.240	3.252	2.0	20.0
6 30	17 46.94	-17 1.5	1.039	2.042	6.5	19.0	6 30	17 47.84	-17 24.9	2.246	3.245	4.0	20.1
7 10	17 39.19	-17 11.3	1.079	2.051	11.5	19.3	7 10	17 40.05	-17 53.7	2.279	3.238	7.1	20.3
7 20	17 34.11	-17 28.1	1.138	2.060	16.1	19.6	7 20	17 33.62	-18 24.5	2.338	3.231	10.1	20.4
7 30	17 32.35	-17 50.6	1.215	2.070	19.9	19.9	7 30	17 29.07	-18 56.7	2.420	3.223	12.8	20.6
115011	2003 <i>QY</i> ₇₈		6 20.3 212°06	10°3/17.9	18		318299	2004 <i>TD</i> ₇₆		6 20.3 208°14	3°2/20.0	18	
5 21	18 21.45	+ 1 37.7	1.944	2.774	14.3	20.0	5 21	18 15.70	-11 56.8	3.013	3.882	8.7	22.1
5 31	18 14.60	+ 3 15.8	1.879	2.768	12.3	19.8	5 31	18 10.16	-11 35.6	2.937	3.877	6.5	22.0
6 10	18 5.97	+ 4 37.9	1.837	2.760	10.7	19.7	6 10	18 3.53	-11 19.5	2.887	3.871	4.3	21.8
6 20	17 56.31	+ 5 38.4	1.819	2.752	10.3	19.7	6 20	17 56.27	-11 9.3	2.866	3.865	3.2	21.7
6 30	17 46.54	+ 6 13.8	1.827	2.743	11.3	19.7	6 30	17 48.98	-11 5.6	2.873	3.858	4.3	21.8
7 10	17 37.65	+ 6 23.4	1.858	2.734	13.1	19.8	7 10	17 42.22	-11 8.4	2.908	3.851	6.5	21.9
7 20	17 30.41	+ 6 9.2	1.910	2.724	15.3	19.9	7 20	17 36.50	-11 17.4	2.969	3.844	8.8	22.1
7 30	17 25.41	+ 5 35.3	1.980	2.713	17.4	20.1	7 30	17 32.21	-11 31.9	3.053	3.836	10.8	22.2
315356	2007 <i>UV</i> ₅₄		6 20.3 87°14	2°2/20.2	17		48765	1997 <i>JN</i> ₁₃		6 20.3 67°46	1°6/20.3	18	
5 21	18 24.46	-27 18.6	1.406	2.306	14.8	20.9	5 21	18 22.26	-19 40.0	1.389	2.291	14.8	18.6
5 31	18 17.29	-27 49.7	1.356	2.317	10.4	20.7	5 31	18 15.52	-19 39.8	1.345	2.307	10.4	18.4
6 10	18 7.52	-28 16.7	1.328	2.328	5.7	20.4	6 10	18 6.52	-19 43.0	1.323	2.324	5.5	18.2
6 20	17 56.34	-28 35.8	1.326	2.340	2.2	20.2	6 20	17 56.35	-19 48.9	1.326	2.341	1.6	18.0
6 30	17 45.25	-28 45.1	1.348	2.351	5.5	20.5	6 30	17 46.36	-19 56.7	1.354	2.358	5.2	18.3
7 10	17 35.72	-28 45.6	1.396	2.362	10.0	20.7	7 10	17 37.86	-20 6.4	1.407	2.374	9.8	18.6
7 20	17 28.80	-28 39.9	1.466	2.373	14.1	21.0	7 20	17 31.75	-20 18.2	1.482	2.391	13.8	18.8
7 30	17 25.13	-28 31.2	1.554	2.383	17.5	21.3	7 30	17 28.58	-20 32.4	1.576	2.408	17.2	19.1
200644	2001 <i>SS</i> ₃₀₂		6 20.3 186°77	1°3/20.2	16		430081						

EPHEMERIDES

6 20.3

6 20.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
370316	2002 <i>RE</i> ₁₂₀		6 20.3 287°00		3°6/20.1	17	338639	2003 <i>SU</i> ₂₉₈		6 20.3 270°52		3°5/20.4	18
5 21	18 23.92	-30 10.4	1.540	2.435	14.0	21.7	5 21	18 22.54	-32 47.2	1.968	2.851	12.0	20.7
5 31	18 17.38	-30 48.9	1.450	2.407	10.3	21.4	5 31	18 15.77	-33 4.1	1.883	2.833	8.8	20.4
6 10	18 7.91	-31 22.8	1.383	2.379	6.2	21.1	6 10	18 6.77	-33 13.1	1.823	2.814	5.5	20.2
6 20	17 56.39	-31 47.2	1.341	2.351	3.6	20.8	6 20	17 56.40	-33 11.0	1.789	2.796	3.5	20.0
6 30	17 44.25	-31 58.6	1.325	2.323	6.3	20.9	6 30	17 45.78	-32 56.7	1.782	2.777	5.4	20.1
7 10	17 33.14	-31 56.5	1.333	2.294	10.8	21.1	7 10	17 36.17	-32 31.2	1.801	2.758	8.9	20.3
7 20	17 24.45	-31 43.9	1.363	2.265	15.3	21.3	7 20	17 28.54	-31 57.8	1.845	2.739	12.3	20.5
7 30	17 19.19	-31 25.1	1.412	2.236	19.2	21.5	7 30	17 23.61	-31 20.5	1.909	2.719	15.4	20.6
482113	2010 <i>NF</i> ₂₀		6 20.3 277°49		4°5/20.9	17	140878	2001 <i>VP</i> ₁₉		6 20.3 162°12		4°2/19.9	18
5 21	18 24.64	-39 10.5	2.504	3.361	10.6	21.2	5 21	18 21.95	-34 48.7	2.342	3.216	10.7	20.4
5 31	18 16.90	-39 2.9	2.405	3.334	8.2	21.0	5 31	18 15.04	-35 38.3	2.278	3.219	8.0	20.2
6 10	18 7.21	-38 42.4	2.332	3.306	5.9	20.8	6 10	18 6.26	-36 20.3	2.238	3.221	5.5	20.0
6 20	17 56.37	-38 6.8	2.285	3.278	4.5	20.7	6 20	17 56.38	-36 51.4	2.226	3.223	4.2	20.0
6 30	17 45.42	-37 15.7	2.267	3.249	5.5	20.7	6 30	17 46.38	-37 9.3	2.242	3.225	5.5	20.0
7 10	17 35.43	-36 11.3	2.277	3.220	8.0	20.8	7 10	17 37.30	-37 14.5	2.284	3.227	8.0	20.2
7 20	17 27.24	-34 57.9	2.313	3.191	10.8	20.9	7 20	17 29.96	-37 9.0	2.351	3.228	10.7	20.4
7 30	17 21.46	-33 40.5	2.372	3.161	13.4	21.1	7 30	17 24.95	-36 56.0	2.439	3.230	13.0	20.5
229190	2004 <i>TN</i> ₂₂₅		6 20.3 11°76		0°7/20.2	17	265682	2005 <i>UX</i> ₇₇		6 20.3 162°22		5°8/21.1	18
5 21	18 19.01	-24 31.0	1.296	2.208	14.9	19.9	5 21	18 27.98	-40 25.0	1.969	2.829	13.0	21.0
5 31	18 13.61	-24 43.6	1.243	2.210	10.5	19.7	5 31	18 19.39	-40 31.2	1.905	2.833	10.1	20.8
6 10	18 5.69	-24 55.0	1.211	2.214	5.5	19.4	6 10	18 8.51	-40 21.7	1.866	2.837	7.3	20.7
6 20	17 56.33	-25 3.3	1.202	2.218	0.8	19.1	6 20	17 56.44	-39 53.4	1.852	2.841	5.8	20.6
6 30	17 46.97	-25 7.1	1.217	2.223	5.2	19.4	6 30	17 44.55	-39 6.2	1.865	2.844	6.8	20.6
7 10	17 39.06	-25 7.3	1.256	2.229	10.2	19.7	7 10	17 34.17	-38 3.5	1.904	2.847	9.4	20.8
7 20	17 33.65	-25 5.3	1.316	2.235	14.5	20.0	7 20	17 26.22	-36 51.3	1.968	2.849	12.3	21.0
7 30	17 31.38	-25 3.1	1.395	2.243	18.2	20.2	7 30	17 21.24	-35 35.7	2.054	2.850	14.9	21.2
440396	2005 <i>JO</i> ₁₅₆		6 20.3 293°65		2°7/19.9	17	475799	2006 <i>XM</i> ₅₆		6 20.3 112°33		1°8/20.5	18
5 21	18 18.37	-17 29.3	1.947	2.839	11.7	20.6	5 21	18 18.12	-16 6.8	2.502	3.382	9.9	21.8
5 31	18 12.50	-16 54.3	1.877	2.832	8.4	20.4	5 31	18 11.99	-16 26.0	2.444	3.394	7.0	21.6
6 10	18 4.90	-16 22.0	1.830	2.826	4.9	20.2	6 10	18 4.52	-16 49.8	2.411	3.407	4.0	21.4
6 20	17 56.32	-15 53.6	1.810	2.820	2.7	20.0	6 20	17 56.34	-17 17.4	2.407	3.419	1.8	21.3
6 30	17 47.68	-15 30.6	1.817	2.814	5.0	20.2	6 30	17 48.17	-17 47.8	2.431	3.430	3.7	21.5
7 10	17 39.96	-15 13.9	1.850	2.808	8.5	20.4	7 10	17 40.73	-18 19.9	2.483	3.442	6.6	21.7
7 20	17 33.90	-15 4.3	1.907	2.803	11.9	20.6	7 20	17 34.61	-18 53.0	2.562	3.453	9.4	21.9
7 30	17 30.05	-15 1.8	1.985	2.797	14.9	20.7	7 30	17 30.28	-19 26.5	2.663	3.464	11.8	22.0
74526	1999 <i>GU</i> ₂₃		6 20.3 179°86		5°4/20.1	18	20962	Michizane		6 20.3 12°48		9°7/20.3	18
5 21	18 23.74	-40 2.7	2.480	3.336	10.8	19.4	5 21	18 16.97	-2 28.9	1.430	2.303	16.3	17.5
5 31	18 16.27	-40 45.0	2.414	3.337	8.4	19.2	5 31	18 11.83	-1 36.0	1.379	2.305	13.3	17.3
6 10	18 6.88	-41 16.2	2.372	3.338	6.4	19.1	6 10	18 4.66	-1 3.3	1.348	2.307	10.8	17.1
6 20	17 56.37	-41 32.9	2.357	3.338	5.4	19.0	6 20	17 56.34	-0 54.7	1.339	2.310	9.7	17.1
6 30	17 45.78	-41 33.5	2.370	3.338	6.3	19.1	6 30	17 48.03	-1 11.5	1.352	2.314	10.7	17.2
7 10	17 36.17	-41 18.8	2.409	3.338	8.4	19.2	7 10	17 40.86	-1 52.0	1.388	2.319	13.1	17.3
7 20	17 28.41	-40 52.0	2.473	3.337	10.7	19.4	7 20	17 35.70	-2 51.5	1.444	2.324	16.0	17.5
7 30	17 23.07	-40 17.2	2.558	3.335	12.8	19.5	7 30	17 33.15	-4 4.6	1.519	2.330	18.7	17.7
292639	2006 <i>UG</i> ₃₃		6 20.3 177°77		0°1/20.3	17	128879	2004 <i>SX</i> ₅₄		6 20.3 241°08		7°3/20.4	18
5 21	18 22.90	-23 16.9	1.880	2.770	12.1	22.1	5 21	18 18.53	-3 24.8	2.005	2.859	13.0	19.9
5 31	18 15.76	-23 23.8	1.814	2.771	8.5	21.9	5 31	18 12.59	-2 57.8	1.932	2.850	10.5	19.7
6 10	18 6.63	-23 30.0	1.772	2.773	4.4	21.6	6 10	18 4.98	-2 45.5	1.882	2.841	8.3	19.5
6 20	17 56.36	-23 34.2	1.757	2.774	0.1	21.3	6 20	17 56.36	-2 49.9	1.857	2.831	7.3	19.4
6 30	17 46.06	-23 35.8	1.770	2.774	4.2	21.6	6 30	17 47.60	-3 11.9	1.859	2.821	8.2	19.5
7 10	17 36.82	-23 35.1	1.810	2.773	8.3	21.9	7 10	17 39.62	-3 50.4	1.885	2.811	10.4	19.6
7 20	17 29.51	-23 33.4	1.874	2.772	12.0	22.1	7 20	17 33.17	-4 42.6	1.934	2.801	13.1	19.7
7 30	17 24.72	-23 32.2	1.960	2.771	15.0	22.3	7 30	17 28.82	-5 45.2	2.004	2.790	15.6	19.9
386987	2012 <i>QK</i> ₁₉		6 20.3 1°12		10°2/20.4	17	442076	2010 <i>RX</i> ₁₇₅		6 20.3 289°76		1°8/20.3	18
5 21	18 16.25	-2 16.6	1.338	2.215	16.9	20.3	5 21	18 19.07	-28 39.9	2.175	3.064	10.8	21.1
5 31	18 11.46	-1 25.2	1.285	2.213	13.9	20.1	5 31	18 13.07	-28 45.6	2.092	3.048	7.7	20.9
6 10	18 4.51	-0 55.2	1.251	2.212	11.3	19.9	6 10	18 5.27	-28 46.7	2.034	3.032	4.3	20.6
6 20	17 56.31	-0 50.9	1.239	2.212	10.2	19.8	6 20	17 56.37	-28 41.7	2.003	3.016	1.8	20.4
6 30	17 48.07	-1 14.0	1.249	2.213	11.2	19.9	6 30	17 47.31	-28 30.0	1.999	3.000	4.1	20.6
7 10	17 41.00	-2 2.2	1.280	2.214	13.7	20.0	7 10	17 39.09	-28 12.5	2.022	2.984	7.7	20.8
7 20	17 36.03	-3 10.4	1.331	2.217	16.7	20.2	7 20	17 32.51	-27 51.3	2.070	2.968	11.0	20.9
7 30	17 33.79	-4 32.4	1.400	2.221	19.5	20.4	7 30	17 28.18	-27 28.6	2.139	2.953	13.9	21.1
297783	2001 <i>XB</i> ₂₄₆		6 20.3 189°05		4°1/19.9	18	176421	2001 <i>VB</i> ₂₅		6 20.3 146°68		3°0/20.0	18
5 21	18 16.93	-9 44.3	2.755	3.620	9.6	21.1	5 21	18 20.75	-31 1.7	2.230	3.114	10.8	20.1
5 31	18 11.07	-9 13.8	2.685	3.619	7.3	21.0	5 31	18 14.19	-31 42.4	2.166	3.116	7.8	19.9
6 10	18 4.01	-8 50.1	2.641	3.617	5.1	20.8	6 10	18 5.81	-32 17.9	2.126	3.118	4.8	19.7
6 20	17 56.31	-8 34.4	2.624	3.615	4.1	20.8	6 20	17 56.38	-32 45.2	2.113	3.120	3.0	19.6
6 30	17 48.57	-8 27.4	2.635	3.613	5.2	20.8	6 30	17 46.86	-33 2.5	2.129	3.122	4.7	19.7
7 10	17 41.46	-8 29.3	2.674	3.610	7.3	21.0	7 10	17 38.24	-33 10.0	2.171	3.124	7.8	19.9
7 20	17 35.50	-8 39.4	2.738	3.607	9.6	21.1	7 20	17 31.34	-33 9.4	2.238	3.126	10.7	20.1
7 30	17 31.10	-8 56.7	2.825	3.603	11.7	21.3	7 30	17 26.73	-33 3.0	2.326	3.128	13.3	20.3
398823	2013 <i>BX</i> ₆₅		6 20.3 61°29		0°6/20.3	16	265326	2004 <i>NP</i> ₂₈					

EPHEMERIDES

6 20.3

6 20.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
279698	2011 <i>FA</i> ₅₆		6 20.3 337°08	4.7/20.2	17		470311	2007 <i>LF</i> ₂₁		6 20.3 358°17	0.8/20.1	17	
5 21	18 14.61	-31 15.2	1.048	1.971	16.6	19.0	5 21	18 18.88	-19 24.4	1.160	2.074	16.1	19.2
5 31	18 11.51	-31 42.7	0.971	1.941	12.3	18.6	5 31	18 13.99	-21 5.9	1.100	2.069	11.3	18.9
6 10	18 5.11	-32 2.1	0.912	1.911	7.7	18.3	6 10	18 6.17	-22 59.6	1.062	2.066	5.9	18.6
6 20	17 56.38	-32 7.9	0.873	1.884	4.7	18.0	6 20	17 56.43	-24 57.9	1.048	2.064	0.8	18.2
6 30	17 47.04	-31 57.0	0.855	1.858	7.6	18.1	6 30	17 46.30	-26 52.0	1.058	2.064	5.9	18.6
7 10	17 39.11	-31 30.1	0.858	1.835	12.9	18.2	7 10	17 37.48	-28 34.9	1.092	2.065	11.3	18.9
7 20	17 34.22	-30 51.9	0.879	1.814	18.2	18.5	7 20	17 31.36	-30 3.1	1.147	2.067	16.1	19.1
7 30	17 33.46	-30 8.1	0.915	1.795	22.8	18.7	7 30	17 28.83	-31 16.5	1.220	2.071	20.0	19.4
326229	2012 <i>DY</i> ₇		6 20.3 251°55	7.5/20.0	17		142751	2002 <i>TG</i> ₃₀₀		6 20.3 328°90	2°1/20.3	17	
5 21	18 28.07	-39 40.2	1.609	2.482	14.8	20.0	5 21	18 19.09	-18 23.7	1.266	2.176	15.4	20.1
5 31	18 20.33	-40 35.7	1.535	2.469	11.7	19.8	5 31	18 13.86	-18 29.5	1.199	2.165	11.0	19.9
6 10	18 9.44	-41 17.2	1.483	2.455	8.8	19.6	6 10	18 5.98	-18 41.7	1.154	2.155	6.1	19.6
6 20	17 56.50	-41 37.6	1.455	2.441	7.5	19.5	6 20	17 56.43	-18 59.5	1.131	2.145	2.1	19.3
6 30	17 43.20	-41 33.1	1.452	2.427	8.8	19.5	6 30	17 46.62	-19 21.8	1.132	2.136	5.8	19.5
7 10	17 31.35	-41 5.2	1.473	2.412	11.9	19.7	7 10	17 38.06	-19 47.5	1.156	2.128	10.9	19.7
7 20	17 22.36	-40 19.4	1.517	2.397	15.3	19.8	7 20	17 31.95	-20 15.8	1.201	2.120	15.6	20.0
7 30	17 17.11	-39 23.4	1.578	2.382	18.4	20.0	7 30	17 29.09	-20 46.1	1.264	2.113	19.6	20.2
377779	2005 <i>YG</i> ₂₁₁		6 20.3 84°73	1.7/20.5	17		402841	2007 <i>LE</i> ₁		6 20.3 34°22	4.6/20.9	14 C	
5 21	18 24.33	-29 32.2	1.809	2.697	12.6	20.0	5 21	18 16.26	- 8 13.7	2.167	3.038	11.5	20.9
5 31	18 16.58	-29 10.2	1.763	2.718	8.9	19.8	5 31	18 10.84	- 8 25.1	2.110	3.046	8.8	20.7
6 10	18 6.94	-28 40.9	1.741	2.739	4.9	19.6	6 10	18 4.00	- 8 47.9	2.076	3.055	6.1	20.6
6 20	17 56.43	-28 3.8	1.746	2.760	1.7	19.4	6 20	17 56.37	- 9 21.9	2.069	3.065	4.6	20.5
6 30	17 46.25	-27 20.4	1.778	2.780	4.4	19.7	6 30	17 48.75	-10 6.2	2.089	3.074	5.7	20.6
7 10	17 37.47	-26 33.7	1.837	2.801	8.2	19.9	7 10	17 41.90	-10 58.8	2.135	3.084	8.2	20.8
7 20	17 30.86	-25 47.1	1.921	2.821	11.7	20.2	7 20	17 36.47	-11 57.0	2.207	3.094	10.9	21.0
7 30	17 26.86	-25 3.8	2.026	2.840	14.5	20.4	7 30	17 32.92	-12 58.6	2.300	3.105	13.3	21.1
308496	2005 <i>TB</i> ₁₂₂		6 20.3 172°20	4.1/20.2	18		482345	2011 <i>WH</i> ₁₇		6 20.3 242°93	3.2/19.7	18	
5 21	18 21.17	-37 12.5	2.809	3.672	9.5	21.8	5 21	18 18.13	-15 10.5	2.421	3.301	10.2	21.6
5 31	18 14.26	-37 45.6	2.742	3.674	7.2	21.6	5 31	18 12.09	-14 23.3	2.343	3.291	7.4	21.4
6 10	18 5.78	-38 10.4	2.701	3.676	5.1	21.5	6 10	18 4.64	-13 39.1	2.291	3.282	4.7	21.2
6 20	17 56.41	-38 24.2	2.687	3.678	4.1	21.4	6 20	17 56.40	-12 59.5	2.267	3.272	3.2	21.1
6 30	17 46.98	-38 26.0	2.702	3.680	5.0	21.5	6 30	17 48.10	-12 26.2	2.271	3.261	4.9	21.2
7 10	17 38.37	-38 16.5	2.744	3.681	7.1	21.6	7 10	17 40.52	-12 0.4	2.303	3.251	7.7	21.3
7 20	17 31.26	-37 57.7	2.811	3.681	9.4	21.8	7 20	17 34.27	-11 42.8	2.360	3.240	10.5	21.5
7 30	17 26.17	-37 32.7	2.901	3.682	11.4	21.9	7 30	17 29.85	-11 33.4	2.438	3.230	13.0	21.6
472812	2015 <i>FK</i> ₁₆₂		6 20.3 55°90	2.1/20.4	17		342732	2008 <i>WW</i> ₄₁		6 20.3 332°99	2.4/20.2	17	
5 21	18 19.59	-17 23.7	1.676	2.572	13.1	20.7	5 21	18 20.68	-28 17.3	1.661	2.559	13.0	20.5
5 31	18 13.51	-17 30.4	1.621	2.580	9.3	20.5	5 31	18 14.59	-28 46.0	1.595	2.554	9.3	20.3
6 10	18 5.49	-17 42.5	1.590	2.589	5.2	20.3	6 10	18 6.20	-29 10.8	1.551	2.550	5.3	20.0
6 20	17 56.40	-17 59.3	1.584	2.597	2.1	20.1	6 20	17 56.44	-29 28.4	1.533	2.546	2.4	19.8
6 30	17 47.33	-18 19.9	1.604	2.606	4.8	20.3	6 30	17 46.54	-29 37.1	1.542	2.543	5.1	20.0
7 10	17 39.37	-18 43.3	1.650	2.615	8.8	20.6	7 10	17 37.80	-29 37.3	1.575	2.539	9.2	20.2
7 20	17 33.36	-19 9.0	1.720	2.624	12.5	20.8	7 20	17 31.21	-29 31.0	1.631	2.536	13.0	20.4
7 30	17 29.86	-19 36.3	1.809	2.634	15.6	21.0	7 30	17 27.47	-29 21.1	1.707	2.534	16.3	20.7
321767	2010 <i>OS</i> ₁₉		6 20.3 263°01	3.9/20.1	18		38858	2000 <i>SB</i> ₉₁		6 20.3 112°23	1.1/20.4	18	
5 21	18 20.48	-34 56.7	2.471	3.344	10.2	21.0	5 21	18 20.48	-28 25.0	2.388	3.271	10.1	18.3
5 31	18 14.02	-35 28.3	2.389	3.331	7.7	20.9	5 31	18 13.68	-28 5.6	2.329	3.282	7.1	18.1
6 10	18 5.77	-35 52.6	2.333	3.316	5.2	20.7	6 10	18 5.41	-27 41.1	2.295	3.293	3.9	18.0
6 20	17 56.41	-36 6.7	2.303	3.302	3.9	20.6	6 20	17 56.42	-27 11.3	2.289	3.304	1.2	17.8
6 30	17 46.87	-36 9.0	2.301	3.287	5.1	20.6	6 30	17 47.55	-26 36.8	2.312	3.314	3.5	18.0
7 10	17 38.12	-36 0.1	2.326	3.273	7.7	20.8	7 10	17 39.65	-25 59.5	2.363	3.324	6.8	18.2
7 20	17 30.97	-35 41.9	2.376	3.258	10.4	20.9	7 20	17 33.34	-25 21.8	2.440	3.334	9.7	18.4
7 30	17 26.02	-35 17.7	2.448	3.243	12.9	21.1	7 30	17 29.06	-24 45.8	2.539	3.344	12.2	18.6
442553	2011 <i>YX</i> ₆₉		6 20.3 273°93	2.2/20.4	18		243243	2007 <i>VH</i> ₂₁₉		6 20.3 259°04	0.1/20.3	18	
5 21	18 17.58	-15 52.1	2.261	3.145	10.6	21.1	5 21	18 19.32	-23 14.6	2.063	2.954	11.1	20.9
5 31	18 11.88	-16 5.0	2.182	3.135	7.6	20.9	5 31	18 13.22	-23 13.6	1.988	2.947	7.8	20.7
6 10	18 4.61	-16 23.7	2.129	3.124	4.4	20.7	6 10	18 5.34	-23 11.9	1.938	2.939	4.1	20.4
6 20	17 56.38	-16 47.4	2.102	3.114	2.2	20.5	6 20	17 56.42	-23 8.8	1.915	2.931	0.1	20.1
6 30	17 48.00	-17 15.4	2.104	3.103	4.2	20.6	6 30	17 47.40	-23 3.9	1.920	2.923	3.9	20.4
7 10	17 40.31	-17 46.7	2.133	3.093	7.5	20.8	7 10	17 39.25	-22 57.9	1.951	2.916	7.7	20.6
7 20	17 34.01	-18 20.3	2.187	3.082	10.6	21.0	7 20	17 32.77	-22 51.9	2.007	2.908	11.2	20.8
7 30	17 29.67	-18 55.5	2.263	3.072	13.4	21.2	7 30	17 28.52	-22 47.0	2.085	2.899	14.1	21.0
166492	2002 <i>PX</i> ₁₆₂		6 20.3 315°01	0.4/20.3	18		144883	2004 <i>RM</i> ₁₁₀		6 20.3 147°48	16.7/18.8	18	
5 21	18 19.58	-24 4.4	1.768	2.665	12.4	20.5	5 21	18 23.84	+ 9 14.6	1.299	2.118	20.7	20.2
5 31	18 13.62	-24 11.6	1.698	2.660	8.7	20.3	5 31	18 16.75	+11 20.2	1.260	2.125	18.6	20.1
6 10	18 5.62	-24 17.8	1.652	2.654	4.6	20.0	6 10	18 7.27	+12 53.2	1.239	2.132	17.1	20.0
6 20	17 56.41	-24 21.7	1.632	2.649	0.4	19.7	6 20	17 56.47	+13 45.4	1.238	2.138	16.7	20.0
6 30	17 47.09	-24 22.6	1.639	2.643	4.4	20.0	6 30	17 45.74	+13 52.8	1.256	2.143	17.4	20.1
7 10	17 38.80	-24 20.9	1.671	2.638	8.6	20.2	7 10	17 36.43	+13 17.9	1.292	2.148	19.0	20.2
7 20	17 32.44	-24 17.9	1.727	2.633	12.4	20.4	7 20	17 29.55	+12 7.8	1.345	2.152	20.9	20.3
7 30	17 28.65	-24 15.1	1.804	2.629	15.6	20.6	7 30	17 25.71	+10 31.9	1.412	2.156	22.8	20.5
125742	2001 <i>XT</i> ₁₁₇		6 20.3 9°14	5.9/23.3	18 A</								

EPHEMERIDES

6 20.3

6 20.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
343319	2010 <i>BD</i> ₇₆		6 20.3 356°49	1°6/20.2	17		250842	2005 <i>UG</i> ₁₆₉		6 20.3 186°39	1°9/20.3	18	
5 21	18 20.30	-26 30.3	1.844	2.739	12.1	21.0	5 21	18 19.01	-29 34.5	2.797	3.676	9.0	21.5
5 31	18 14.09	-26 56.8	1.779	2.738	8.5	20.8	5 31	18 12.68	-29 50.4	2.726	3.676	6.4	21.3
6 10	18 5.86	-27 21.0	1.738	2.738	4.6	20.6	6 10	18 4.97	-30 2.3	2.680	3.675	3.7	21.1
6 20	17 56.44	-27 40.3	1.723	2.738	1.6	20.4	6 20	17 56.47	-30 8.5	2.663	3.674	1.9	21.0
6 30	17 46.94	-27 53.3	1.735	2.738	4.5	20.6	6 30	17 47.93	-30 8.5	2.674	3.672	3.5	21.1
7 10	17 38.47	-28 0.0	1.774	2.738	8.4	20.8	7 10	17 40.09	-30 2.7	2.714	3.671	6.3	21.3
7 20	17 31.93	-28 1.7	1.836	2.738	12.0	21.0	7 20	17 33.58	-29 52.3	2.780	3.669	8.9	21.4
7 30	17 27.93	-28 0.5	1.918	2.738	15.0	21.2	7 30	17 28.88	-29 39.3	2.869	3.666	11.1	21.6
138912	2001 <i>AD</i> ₄		6 20.3 166°38	3°0/20.4	18		28259	1999 <i>BY</i> ₂₇		6 20.3 92°39	0°3/20.3	18	
5 21	18 16.62	-11 59.7	2.909	3.778	9.0	20.9	5 21	18 22.74	-22 34.5	1.589	2.486	13.5	18.6
5 31	18 10.85	-11 58.9	2.842	3.782	6.6	20.8	5 31	18 15.90	-23 4.4	1.535	2.496	9.5	18.3
6 10	18 3.94	-12 4.2	2.800	3.786	4.3	20.6	6 10	18 6.84	-23 35.5	1.505	2.506	4.9	18.1
6 20	17 56.41	-12 15.6	2.787	3.789	3.0	20.5	6 20	17 56.53	-24 4.9	1.500	2.516	0.3	17.8
6 30	17 48.86	-12 32.9	2.802	3.792	4.1	20.6	6 30	17 46.24	-24 30.8	1.522	2.527	4.6	18.1
7 10	17 41.89	-12 55.5	2.846	3.794	6.4	20.8	7 10	17 37.22	-24 52.4	1.570	2.537	9.1	18.4
7 20	17 36.02	-13 22.6	2.916	3.796	8.8	20.9	7 20	17 30.41	-25 10.4	1.641	2.546	13.0	18.7
7 30	17 31.64	-13 53.2	3.010	3.798	10.9	21.1	7 30	17 26.43	-25 26.1	1.732	2.556	16.2	18.9
14061	<i>Nagincox</i>		6 20.3 237°76	3°3/20.1	18		261545	2005 <i>WB</i> ₁₃₅		6 20.3 271°65	2°1/20.7	18	
5 21	18 21.26	-16 3.5	1.765	2.654	12.9	18.5	5 21	18 21.00	-32 0.0	2.385	3.264	10.3	20.2
5 31	18 14.76	-15 35.5	1.691	2.644	9.3	18.3	5 31	18 14.18	-31 32.6	2.311	3.260	7.4	20.0
6 10	18 6.23	-15 12.0	1.640	2.634	5.6	18.0	6 10	18 5.76	-30 56.9	2.262	3.256	4.4	19.8
6 20	17 56.48	-14 54.1	1.615	2.624	3.3	17.9	6 20	17 56.50	-30 12.5	2.241	3.252	2.1	19.7
6 30	17 46.59	-14 42.9	1.617	2.613	5.6	18.0	6 30	17 47.33	-29 20.3	2.248	3.248	3.9	19.8
7 10	17 37.68	-14 39.1	1.644	2.602	9.5	18.2	7 10	17 39.11	-28 23.0	2.284	3.244	7.1	20.0
7 20	17 30.63	-14 42.8	1.696	2.591	13.2	18.4	7 20	17 32.54	-27 23.9	2.346	3.240	10.0	20.2
7 30	17 26.10	-14 53.7	1.767	2.579	16.4	18.6	7 30	17 28.11	-26 26.2	2.431	3.236	12.6	20.3
496758	2016 <i>US</i> ₁₀₂		6 20.3 207°19	0°4/20.3	18		131588	2001 <i>WF</i> ₂₈		6 20.3 144°63	3°3/20.3	17	
5 21	18 17.77	-22 10.9	2.652	3.537	9.2	22.3	5 21	18 23.33	-15 59.5	1.518	2.410	14.4	20.5
5 31	18 11.82	-22 11.4	2.578	3.533	6.4	22.1	5 31	18 16.29	-15 43.3	1.461	2.417	10.3	20.3
6 10	18 4.52	-22 11.9	2.529	3.529	3.4	21.9	6 10	18 7.03	-15 33.6	1.427	2.423	6.1	20.1
6 20	17 56.44	-22 11.9	2.509	3.525	0.4	21.6	6 20	17 56.54	-15 30.6	1.418	2.429	3.3	19.9
6 30	17 48.31	-22 11.3	2.517	3.520	3.2	21.9	6 30	17 46.08	-15 34.5	1.435	2.434	5.8	20.1
7 10	17 40.85	-22 10.2	2.553	3.515	6.3	22.1	7 10	17 36.91	-15 45.2	1.478	2.439	10.0	20.3
7 20	17 34.67	-22 9.3	2.616	3.510	9.2	22.2	7 20	17 29.95	-16 2.2	1.543	2.443	13.9	20.6
7 30	17 30.24	-22 9.2	2.701	3.504	11.6	22.4	7 30	17 25.82	-16 24.5	1.628	2.447	17.3	20.8
126003	2001 <i>YY</i> ₄₆		6 20.3 151°81	1°9/20.3	17		355745	2008 <i>HS</i> ₅₅		6 20.3 77°46	0°5/20.3	18	
5 21	18 22.79	-27 51.5	1.874	2.764	12.2	20.6	5 21	18 17.67	-21 31.1	2.296	3.186	10.2	21.3
5 31	18 15.78	-28 11.6	1.812	2.768	8.6	20.4	5 31	18 11.87	-21 37.2	2.233	3.191	7.2	21.1
6 10	18 6.72	-28 27.6	1.774	2.772	4.8	20.2	6 10	18 4.58	-21 44.3	2.195	3.195	3.8	20.9
6 20	17 56.50	-28 37.0	1.763	2.776	1.9	20.0	6 20	17 56.47	-21 51.5	2.184	3.200	0.5	20.6
6 30	17 46.27	-28 38.8	1.779	2.780	4.6	20.2	6 30	17 48.36	-21 58.3	2.202	3.205	3.5	20.9
7 10	17 37.17	-28 33.7	1.821	2.783	8.4	20.4	7 10	17 41.05	-22 4.9	2.246	3.210	6.9	21.1
7 20	17 30.07	-28 23.7	1.888	2.786	11.9	20.6	7 20	17 35.20	-22 11.5	2.316	3.215	10.0	21.3
7 30	17 25.58	-28 11.4	1.976	2.789	14.9	20.8	7 30	17 31.30	-22 18.7	2.408	3.220	12.6	21.5
428693	2008 <i>OZ</i> ₄		6 20.3 352°84	5°3/21.2	17		410326	2007 <i>UQ</i> ₁₁		6 20.3 308°61	1°7/20.4	18	
5 21	18 24.74	-37 28.4	1.480	2.366	15.0	20.2	5 21	18 20.87	-19 12.2	1.174	2.085	16.2	19.9
5 31	18 17.63	-37 14.6	1.417	2.364	11.4	19.9	5 31	18 15.82	-19 22.9	1.080	2.047	11.8	19.5
6 10	18 7.81	-36 43.7	1.375	2.362	7.7	19.7	6 10	18 7.46	-19 40.8	1.006	2.009	6.5	19.1
6 20	17 56.54	-35 53.1	1.358	2.360	5.3	19.6	6 20	17 56.58	-20 5.0	0.955	1.970	1.7	18.7
6 30	17 45.42	-34 43.9	1.365	2.359	6.8	19.7	6 30	17 44.63	-20 33.7	0.926	1.932	6.4	18.9
7 10	17 36.01	-33 21.4	1.397	2.358	10.5	19.9	7 10	17 33.53	-21 5.6	0.920	1.894	12.7	19.1
7 20	17 29.38	-31 53.0	1.452	2.358	14.3	20.1	7 20	17 24.99	-21 39.8	0.934	1.856	18.6	19.2
7 30	17 26.10	-30 25.7	1.527	2.358	17.7	20.3	7 30	17 20.34	-22 16.3	0.963	1.820	23.7	19.4
158686	2003 <i>FX</i> ₄₉		6 20.3 1°40	10°5/21.7	18		424144	2007 <i>GM</i> ₆		6 20.3 318°98	6°3/19.5	17	
5 21	18 15.90	-0 43.8	1.235	2.112	18.0	18.8	5 21	18 24.77	-35 48.1	1.655	2.538	13.9	20.6
5 31	18 11.41	-0 22.6	1.182	2.109	14.9	18.6	5 31	18 17.82	-37 8.4	1.592	2.536	10.6	20.4
6 10	18 4.61	-0 27.9	1.147	2.108	12.1	18.4	6 10	18 8.09	-38 19.6	1.553	2.534	7.6	20.2
6 20	17 56.45	-1 3.0	1.133	2.108	10.6	18.4	6 20	17 56.58	-39 14.7	1.538	2.531	6.3	20.1
6 30	17 48.21	-2 7.4	1.140	2.110	11.3	18.4	6 30	17 44.78	-39 49.4	1.550	2.529	7.9	20.2
7 10	17 41.18	-3 36.5	1.169	2.112	13.9	18.6	7 10	17 34.24	-40 3.4	1.585	2.527	11.0	20.4
7 20	17 36.38	-5 22.9	1.218	2.116	17.0	18.8	7 20	17 26.22	-40 0.0	1.643	2.525	14.2	20.6
7 30	17 34.47	-7 18.8	1.285	2.121	20.1	19.0	7 30	17 21.54	-39 44.8	1.720	2.523	17.1	20.8
386307	2008 <i>SD</i> ₅₃		6 20.3 250°60	1°4/20.3	17		241095	2007 <i>CT</i> ₂₉		6 20.3 249°87	3°9/20.4	18	
5 21	18 21.47	-26 42.3	1.897	2.789	12.0	21.7	5 21	18 17.24	-10 1.2	2.572	3.439	10.1	20.9
5 31	18 14.95	-26 56.4	1.822	2.780	8.5	21.5	5 31	18 11.52	-9 56.9	2.487	3.424	7.6	20.7
6 10	18 6.36	-27 7.4	1.771	2.770	4.6	21.3	6 10	18 4.42	-10 0.8	2.428	3.409	5.2	20.5
6 20	17 56.51	-27 13.4	1.746	2.760	1.4	21.0	6 20	17 56.49	-10 13.3	2.395	3.393	3.9	20.4
6 30	17 46.49	-27 13.3	1.748	2.750	4.4	21.2	6 30	17 48.41	-10 34.4	2.391	3.377	5.1	20.5
7 10	17 37.46	-27 7.6	1.777	2.740	8.4	21.4	7 10	17 40.89	-11 3.4	2.415	3.360	7.5	20.6
7 20	17 30.33	-26 58.1	1.830	2.730	12.1	21.6	7 20	17 34.56	-11 39.0	2.464	3.343	10.2	20.7
7 30	17 25.76	-26 47.2	1.903	2.720	15.2	21.8	7 30	17 29.91	-12 19.9	2.535	3.326	12.6	20.9
135055	2001 <i>OE</i> ₇₆		6 20.3 345°95	8°3/21.2	18		309677	2008 <i>EO</i>					

EPHEMERIDES

6 20.3

6 20.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
184233	2004 RA ₁₅₁		6 20.3 309°61	0°8/20.3	18		272620	2005 WB ₃₅		6 20.3 128°70	0°2/20.3	17	
5 21	18 18.04	-24 44.1	2.047	2.941	11.1	19.5	5 21	18 21.98	-23 27.9	1.835	2.727	12.3	21.4
5 31	18 12.50	-25 5.2	1.965	2.925	7.8	19.3	5 31	18 15.17	-23 37.4	1.776	2.735	8.6	21.2
6 10	18 5.09	-25 25.7	1.908	2.908	4.2	19.0	6 10	18 6.41	-23 46.2	1.741	2.742	4.5	21.0
6 20	17 56.52	-25 44.0	1.877	2.892	0.8	18.7	6 20	17 56.58	-23 52.9	1.733	2.749	0.2	20.6
6 30	17 47.72	-25 58.6	1.873	2.876	4.0	18.9	6 30	17 46.76	-23 56.9	1.752	2.756	4.2	21.0
7 10	17 39.71	-26 9.3	1.896	2.861	7.9	19.1	7 10	17 38.06	-23 58.4	1.798	2.763	8.2	21.3
7 20	17 33.34	-26 16.7	1.943	2.846	11.4	19.3	7 20	17 31.31	-23 58.6	1.868	2.769	11.9	21.5
7 30	17 29.24	-26 22.1	2.011	2.831	14.4	19.5	7 30	17 27.06	-23 58.9	1.958	2.775	14.9	21.7
42043	2000 YB ₁₀₂		6 20.3 151°57	5°1/20.6	18		48525	1993 GB		6 20.3 51°90	7°4/20.2	18	
5 21	18 16.37	-6 40.3	2.419	3.280	10.8	19.2	5 21	18 26.67	-37 6.8	1.263	2.156	16.7	16.9
5 31	18 10.87	-6 28.5	2.354	3.282	8.4	19.0	5 31	18 19.30	-38 16.2	1.228	2.175	12.7	16.7
6 10	18 4.05	-6 27.3	2.313	3.283	6.2	18.9	6 10	18 8.80	-39 9.7	1.213	2.195	9.1	16.5
6 20	17 56.49	-6 37.7	2.299	3.285	5.1	18.8	6 20	17 56.64	-39 40.4	1.222	2.216	7.4	16.5
6 30	17 48.91	-6 59.6	2.312	3.286	6.0	18.9	6 30	17 44.72	-39 45.6	1.253	2.236	8.9	16.6
7 10	17 42.00	-7 31.9	2.351	3.287	8.2	19.0	7 10	17 34.86	-39 28.4	1.308	2.258	12.1	16.9
7 20	17 36.36	-8 13.0	2.415	3.289	10.6	19.2	7 20	17 28.22	-38 55.4	1.383	2.279	15.5	17.1
7 30	17 32.44	-9 0.6	2.501	3.290	12.8	19.3	7 30	17 25.39	-38 13.7	1.477	2.300	18.5	17.4
449923	2015 OH ₁₃		6 20.3 288°00	1°5/20.3	16		189232	2004 MJ ₈		6 20.3 331°71	4°2/19.2	17	
5 21	18 19.11	-27 7.6	2.186	3.075	10.7	21.7	5 21	18 20.54	-26 44.4	1.221	2.133	15.6	18.2
5 31	18 13.19	-27 26.7	2.100	3.057	7.6	21.5	5 31	18 15.52	-28 30.6	1.148	2.114	11.3	17.9
6 10	18 5.44	-27 43.2	2.039	3.038	4.2	21.2	6 10	18 7.25	-30 22.0	1.096	2.096	6.8	17.6
6 20	17 56.54	-27 55.2	2.005	3.020	1.5	21.0	6 20	17 56.63	-32 9.6	1.068	2.078	4.3	17.4
6 30	17 47.41	-28 1.6	1.999	3.001	4.1	21.2	6 30	17 45.22	-33 44.4	1.064	2.062	7.5	17.5
7 10	17 39.04	-28 2.3	2.020	2.982	7.7	21.3	7 10	17 34.94	-35 0.9	1.083	2.046	12.5	17.8
7 20	17 32.26	-27 58.7	2.066	2.964	11.0	21.5	7 20	17 27.44	-35 57.9	1.122	2.032	17.2	18.0
7 30	17 27.71	-27 52.5	2.133	2.945	13.9	21.7	7 30	17 23.89	-36 38.4	1.178	2.020	21.2	18.2
125839	2001 XX ₁₈₁		6 20.3 150°36	0°3/20.3	17		350841	2002 FB ₂₆		6 20.3 83°75	1°1/20.5	18	
5 21	18 22.09	-22 48.7	2.163	3.049	11.0	21.2	5 21	18 19.42	-17 53.1	2.293	3.176	10.5	20.5
5 31	18 14.97	-22 43.7	2.102	3.058	7.7	21.0	5 31	18 13.05	-18 27.8	2.239	3.193	7.4	20.3
6 10	18 6.21	-22 38.0	2.066	3.066	4.0	20.8	6 10	18 5.20	-19 6.5	2.212	3.210	4.0	20.1
6 20	17 56.56	-22 30.9	2.058	3.074	0.3	20.5	6 20	17 56.56	-19 47.5	2.212	3.226	1.2	19.9
6 30	17 46.96	-22 22.5	2.079	3.082	3.8	20.8	6 30	17 47.93	-20 29.2	2.241	3.243	3.6	20.1
7 10	17 38.34	-22 13.4	2.127	3.089	7.4	21.0	7 10	17 40.14	-21 10.2	2.297	3.259	6.9	20.4
7 20	17 31.41	-22 4.9	2.200	3.095	10.6	21.2	7 20	17 33.82	-21 49.6	2.380	3.275	9.9	20.6
7 30	17 26.66	-21 58.1	2.296	3.100	13.3	21.4	7 30	17 29.46	-22 27.2	2.486	3.292	12.4	20.8
260101	2004 NZ ₉		6 20.3 1°84	3°2/20.8	18		27515	Gunnels		6 20.3 259°86	1°3/20.3	18	
5 21	18 19.46	-32 52.9	1.548	2.446	13.8	19.2	5 21	18 21.72	-20 23.9	1.770	2.663	12.6	19.0
5 31	18 13.76	-32 31.0	1.487	2.444	10.0	18.9	5 31	18 15.25	-20 15.0	1.688	2.646	9.0	18.8
6 10	18 5.76	-31 57.5	1.448	2.444	6.0	18.7	6 10	18 6.61	-20 7.5	1.629	2.629	4.9	18.5
6 20	17 56.54	-31 11.4	1.433	2.444	3.2	18.5	6 20	17 56.61	-20 1.1	1.597	2.612	1.3	18.2
6 30	17 47.44	-30 14.2	1.444	2.446	5.4	18.7	6 30	17 46.36	-19 55.9	1.591	2.594	4.7	18.4
7 10	17 39.73	-29 10.0	1.480	2.448	9.4	18.9	7 10	17 37.04	-19 52.3	1.612	2.576	9.1	18.6
7 20	17 34.35	-28 3.8	1.539	2.452	13.2	19.2	7 20	17 29.63	-19 51.4	1.657	2.558	13.1	18.8
7 30	17 31.86	-27 0.2	1.618	2.456	16.5	19.4	7 30	17 24.83	-19 54.0	1.721	2.539	16.5	19.0
198383	2004 VR ₂₉		6 20.3 16°50	0°9/20.3	17		48016	2001 CQ ₉		6 20.3 50°37	17°9/20.8	18	
5 21	18 19.87	-21 7.8	1.594	2.495	13.3	20.3	5 21	18 41.97	-60 47.9	1.377	2.168	21.1	18.1
5 31	18 13.92	-21 9.2	1.534	2.496	9.4	20.0	5 31	18 32.52	-62 59.6	1.351	2.183	19.5	18.0
6 10	18 5.84	-21 12.4	1.496	2.498	5.0	19.8	6 10	18 16.74	-64 34.2	1.342	2.198	18.3	18.0
6 20	17 56.55	-21 16.4	1.484	2.500	0.9	19.5	6 20	17 56.90	-65 19.3	1.350	2.213	17.9	18.0
6 30	17 47.23	-21 20.9	1.497	2.502	4.7	19.8	6 30	17 37.02	-65 10.1	1.375	2.228	18.2	18.1
7 10	17 39.07	-21 25.8	1.536	2.504	9.1	20.0	7 10	17 21.15	-64 13.4	1.417	2.244	19.1	18.2
7 20	17 32.99	-21 32.0	1.598	2.507	13.0	20.3	7 20	17 11.53	-62 42.4	1.475	2.261	20.3	18.3
7 30	17 29.59	-21 39.9	1.680	2.510	16.3	20.5	7 30	17 8.61	-60 51.3	1.548	2.277	21.7	18.5
259958	2004 ER ₈₄		6 20.3 52°22	5°4/20.2	17		371436	2006 SW ₂₁₂		6 20.3 338°85	6°8/18.5	17	
5 21	18 24.93	-33 41.6	1.314	2.211	15.8	19.5	5 21	18 16.52	-29 21.0	0.930	1.858	17.7	19.2
5 31	18 17.90	-34 32.4	1.273	2.227	11.7	19.3	5 31	18 13.35	-31 25.3	0.863	1.835	13.2	18.9
6 10	18 8.02	-35 11.6	1.254	2.244	7.6	19.1	6 10	18 6.41	-33 34.4	0.815	1.813	8.7	18.5
6 20	17 56.61	-35 33.9	1.258	2.261	5.4	19.0	6 20	17 56.62	-35 36.3	0.787	1.793	6.9	18.4
6 30	17 45.40	-35 37.1	1.286	2.279	7.4	19.2	6 30	17 45.84	-37 18.4	0.780	1.775	10.1	18.5
7 10	17 36.01	-35 23.4	1.338	2.296	11.1	19.4	7 10	17 36.47	-38 33.5	0.793	1.760	15.3	18.7
7 20	17 29.56	-34 57.8	1.411	2.315	14.8	19.7	7 20	17 30.58	-39 21.0	0.822	1.746	20.3	18.9
7 30	17 26.63	-34 26.1	1.503	2.333	18.0	20.0	7 30	17 29.55	-39 45.5	0.866	1.735	24.7	19.1
315223	2007 RP ₁₅₄		6 20.3 229°84	2°2/20.4	17		198221	2004 TK ₁₇₆		6 20.3 205°16	3°8/19.9	18	
5 21	18 25.68	-28 38.7	1.729	2.617	13.1	21.5	5 21	18 19.65	-12 23.9	2.417	3.289	10.5	21.0
5 31	18 18.15	-28 50.3	1.651	2.606	9.4	21.3	5 31	18 13.20	-11 51.4	2.342	3.283	7.8	20.8
6 10	18 8.15	-28 56.5	1.596	2.594	5.3	21.0	6 10	18 5.30	-11 24.6	2.292	3.277	5.2	20.6
6 20	17 56.63	-28 54.3	1.568	2.581	2.2	20.8	6 20	17 56.58	-11 4.7	2.270	3.270	3.8	20.5
6 30	17 44.88	-28 42.6	1.567	2.568	5.1	20.9	6 30	17 47.79	-10 52.6	2.276	3.263	5.2	20.6
7 10	17 34.28	-28 22.8	1.592	2.554	9.4	21.2	7 10	17 39.72	-10 48.9	2.310	3.254	7.9	20.7
7 20	17 25.93	-27 57.9	1.641	2.539	13.4	21.4	7 20	17 33.00	-10 53.2	2.369	3.246	10.6	20.9
7 30	17 20.56	-27 31.6	1.710	2.523	16.8	21.6	7 30	17 28.13	-11 4.8	2.450	3.236	13.1	21.1
17146	1999 JB ₁₀₂		6 20.3 48°50	6°5/20.8	18		28747						

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
95114	2002 AM ₁₂₁		6 20.3	15°22	6°7/21.1	18	124960	2001 TN ₉₇		6 20.3	120°45	0°5/20.4	17
5 21	18 23.19	-38 46.2	1.345	2.235	16.0	18.4	5 21	18 23.31	-25 28.8	1.850	2.740	12.3	19.8
5 31	18 16.80	-39 0.3	1.293	2.239	12.3	18.1	5 31	18 16.03	-25 18.2	1.795	2.753	8.6	19.6
6 10	18 7.51	-38 56.7	1.261	2.244	8.8	18.0	6 10	18 6.85	-25 4.3	1.764	2.764	4.5	19.3
6 20	17 56.65	-38 31.2	1.252	2.249	6.8	17.9	6 20	17 56.69	-24 46.4	1.760	2.776	0.5	19.0
6 30	17 45.97	-37 43.8	1.267	2.255	8.1	17.9	6 30	17 46.66	-24 24.9	1.783	2.787	4.2	19.4
7 10	17 37.14	-36 39.1	1.305	2.262	11.4	18.2	7 10	17 37.85	-24 1.5	1.834	2.798	8.2	19.6
7 20	17 31.27	-35 24.4	1.364	2.270	15.0	18.4	7 20	17 31.04	-23 38.4	1.908	2.808	11.7	19.9
7 30	17 28.93	-34 7.1	1.442	2.279	18.2	18.6	7 30	17 26.75	-23 17.5	2.004	2.818	14.7	20.1
211124	2002 GP ₄₂		6 20.3	155°03	4°8/20.2	17	95037	2002 AF ₂₇		6 20.3	137°75	5°7/20.9	17
5 21	18 26.29	-33 5.8	1.524	2.414	14.5	20.6	5 21	18 19.99	-6 35.5	1.995	2.859	12.7	19.7
5 31	18 18.80	-33 51.6	1.466	2.417	10.7	20.4	5 31	18 13.59	-6 29.3	1.937	2.866	9.8	19.6
6 10	18 8.56	-34 28.2	1.429	2.420	6.9	20.2	6 10	18 5.57	-6 36.0	1.902	2.874	7.2	19.4
6 20	17 56.69	-34 50.5	1.418	2.422	4.8	20.1	6 20	17 56.65	-6 56.5	1.892	2.881	5.7	19.3
6 30	17 44.73	-34 55.7	1.432	2.424	6.8	20.2	6 30	17 47.73	-7 30.4	1.910	2.888	6.8	19.4
7 10	17 34.27	-34 45.3	1.471	2.426	10.5	20.4	7 10	17 39.71	-8 15.6	1.954	2.895	9.3	19.6
7 20	17 26.48	-34 23.2	1.532	2.428	14.3	20.7	7 20	17 33.29	-9 9.6	2.022	2.901	12.1	19.8
7 30	17 22.06	-33 54.8	1.612	2.430	17.5	20.9	7 30	17 28.99	-10 9.5	2.111	2.907	14.6	20.0
463774	2014 SN ₁₉₁		6 20.3	159°50	0°7/20.3	17	184022	2004 FE ₃₉		6 20.3	54°89	0°5/20.3	17
5 21	18 24.26	-21 14.4	1.595	2.489	13.7	21.7	5 21	18 21.95	-21 48.7	1.371	2.276	14.8	20.3
5 31	18 17.01	-21 21.0	1.535	2.494	9.6	21.4	5 31	18 15.53	-21 58.1	1.324	2.288	10.3	20.1
6 10	18 7.48	-21 29.2	1.498	2.499	5.1	21.2	6 10	18 6.75	-22 9.0	1.299	2.301	5.4	19.8
6 20	17 56.66	-21 37.4	1.487	2.502	0.8	20.9	6 20	17 56.69	-22 19.6	1.298	2.314	0.5	19.5
6 30	17 45.82	-21 45.0	1.502	2.506	4.8	21.2	6 30	17 46.75	-22 29.2	1.322	2.328	5.0	19.9
7 10	17 36.24	-21 51.9	1.543	2.509	9.3	21.5	7 10	17 38.27	-22 37.6	1.371	2.341	9.7	20.2
7 20	17 28.88	-21 59.1	1.608	2.511	13.3	21.7	7 20	17 32.23	-22 45.8	1.442	2.355	13.9	20.5
7 30	17 24.39	-22 7.5	1.693	2.513	16.7	21.9	7 30	17 29.20	-22 54.6	1.532	2.369	17.4	20.7
250809	2005 UB ₄₁		6 20.3	216°21	1°3/20.2	18	475865	2007 CU ₃		6 20.3	154°48	4°1/20.6	18
5 21	18 17.39	-19 18.4	2.736	3.618	9.0	21.3	5 21	18 21.62	-37 4.6	2.554	3.420	10.2	21.7
5 31	18 11.55	-19 7.9	2.659	3.612	6.4	21.1	5 31	18 14.69	-37 18.5	2.488	3.423	7.7	21.5
6 10	18 4.43	-18 58.8	2.608	3.605	3.5	20.9	6 10	18 6.12	-37 22.7	2.448	3.427	5.3	21.4
6 20	17 56.57	-18 51.2	2.584	3.598	1.3	20.7	6 20	17 56.68	-37 15.3	2.435	3.431	4.1	21.3
6 30	17 48.66	-18 45.3	2.590	3.591	3.4	20.9	6 30	17 47.28	-36 55.6	2.450	3.434	5.1	21.3
7 10	17 41.37	-18 41.3	2.625	3.584	6.3	21.1	7 10	17 38.82	-36 25.4	2.492	3.437	7.4	21.5
7 20	17 35.29	-18 39.8	2.685	3.576	9.1	21.2	7 20	17 32.02	-35 47.3	2.560	3.440	9.8	21.7
7 30	17 30.86	-18 40.9	2.768	3.567	11.4	21.4	7 30	17 27.38	-35 5.0	2.650	3.442	12.1	21.8
255806	2006 SD ₃₃		6 20.3	197°21	6°1/20.1	17	241483	2009 BA ₉₂		6 20.3	270°34	2°3/20.3	17
5 21	18 21.08	-7 29.8	1.966	2.831	12.8	21.6	5 21	18 18.84	-16 53.2	1.972	2.861	11.7	21.1
5 31	18 14.42	-6 52.1	1.898	2.828	10.0	21.4	5 31	18 12.99	-16 49.1	1.897	2.852	8.4	20.8
6 10	18 6.03	-6 25.5	1.853	2.825	7.4	21.2	6 10	18 5.36	-16 49.8	1.847	2.844	4.8	20.6
6 20	17 56.63	-6 11.9	1.834	2.821	6.1	21.1	6 20	17 56.66	-16 55.1	1.823	2.835	2.3	20.4
6 30	17 47.15	-6 12.8	1.843	2.817	7.3	21.2	6 30	17 47.82	-17 5.0	1.826	2.826	4.6	20.6
7 10	17 38.55	-6 27.8	1.876	2.811	10.0	21.4	7 10	17 39.82	-17 19.0	1.856	2.818	8.3	20.8
7 20	17 31.60	-6 55.2	1.934	2.805	12.9	21.5	7 20	17 33.45	-17 36.9	1.910	2.809	11.7	21.0
7 30	17 26.85	-7 32.6	2.012	2.799	15.5	21.7	7 30	17 29.30	-17 58.1	1.985	2.800	14.7	21.1
512786	2016 UQ ₇₂		6 20.3	92°87	4°0/20.2	18	297778	2001 XT ₂₂₂		6 20.3	286°90	0°9/20.3	18
5 21	18 20.72	-34 50.3	2.297	3.173	10.8	21.0	5 21	18 19.36	-25 32.5	2.041	2.933	11.2	20.7
5 31	18 14.24	-35 24.9	2.233	3.176	8.0	20.8	5 31	18 13.42	-25 45.2	1.963	2.922	7.9	20.5
6 10	18 5.95	-35 51.5	2.194	3.178	5.4	20.7	6 10	18 5.61	-25 56.0	1.910	2.911	4.2	20.2
6 20	17 56.62	-36 7.2	2.182	3.181	4.0	20.6	6 20	17 56.68	-26 3.5	1.884	2.900	0.9	19.9
6 30	17 47.25	-36 10.6	2.196	3.183	5.3	20.7	6 30	17 47.58	-26 6.6	1.885	2.888	4.0	20.1
7 10	17 38.82	-36 2.5	2.238	3.186	7.9	20.8	7 10	17 39.33	-26 5.7	1.913	2.877	7.8	20.4
7 20	17 32.12	-35 45.3	2.304	3.188	10.6	21.0	7 20	17 32.78	-26 2.0	1.965	2.866	11.3	20.6
7 30	17 27.73	-35 22.1	2.392	3.191	13.0	21.2	7 30	17 28.54	-25 57.1	2.038	2.855	14.3	20.7
38552	1999 VD ₆₆		6 20.3	317°60	3°5/19.9	18	386366	2008 TN ₁₂₇		6 20.3	250°47	2°1/20.4	18
5 21	18 20.05	-31 24.3	2.081	2.968	11.3	18.6	5 21	18 22.24	-29 3.5	1.923	2.812	12.0	21.6
5 31	18 14.00	-32 15.6	2.009	2.960	8.3	18.3	5 31	18 15.55	-29 10.6	1.846	2.801	8.6	21.4
6 10	18 5.94	-33 2.2	1.960	2.952	5.2	18.1	6 10	18 6.76	-29 12.3	1.794	2.791	4.9	21.1
6 20	17 56.64	-33 40.3	1.939	2.944	3.5	18.0	6 20	17 56.72	-29 6.5	1.767	2.780	2.1	20.9
6 30	17 47.11	-34 7.4	1.944	2.937	5.3	18.1	6 30	17 46.53	-28 52.5	1.768	2.769	4.6	21.0
7 10	17 38.45	-34 23.0	1.976	2.929	8.4	18.3	7 10	17 37.37	-28 31.5	1.796	2.758	8.4	21.3
7 20	17 31.57	-34 28.7	2.032	2.922	11.5	18.5	7 20	17 30.14	-28 6.2	1.848	2.747	12.1	21.5
7 30	17 27.14	-34 26.9	2.108	2.916	14.3	18.7	7 30	17 25.51	-27 39.5	1.920	2.736	15.2	21.6
249098	2007 VB ₁₈₁		6 20.3	202°73	4°7/19.8	17	428314	2007 GD ₂₀		6 20.3	61°89	6°8/19.7	17
5 21	18 18.42	-11 51.1	2.006	2.886	11.9	20.4	5 21	18 20.81	-9 41.4	1.522	2.406	14.8	20.4
5 31	18 12.52	-11 4.9	1.942	2.886	9.0	20.2	5 31	18 14.31	-8 30.4	1.483	2.425	11.3	20.3
6 10	18 5.01	-10 25.7	1.901	2.885	6.1	20.1	6 10	18 5.95	-7 31.4	1.466	2.445	8.2	20.1
6 20	17 56.61	-9 55.6	1.887	2.885	4.7	20.0	6 20	17 56.69	-6 48.2	1.474	2.465	6.8	20.1
6 30	17 48.20	-9 36.4	1.899	2.884	6.2	20.1	6 30	17 47.67	-6 22.9	1.507	2.485	8.2	20.2
7 10	17 40.66	-9 28.5	1.938	2.884	9.1	20.2	7 10	17 39.96	-6 15.5	1.564	2.505	11.2	20.5
7 20	17 34.70	-9 31.5	2.000	2.883	12.0	20.4	7 20	17 34.30	-6 24.3	1.643	2.525	14.2	20.7
7 30	17 30.83	-9 44.1	2.083	2.882	14.7	20.6	7 30	17 31.17	-6 46.2	1.741	2.545	16.9	20.9
471140	2010 EX ₁₀₄		6 20.3	80°67	0°9/20.5	17	370313	2002 RR ₇₅		6 20.3	255°67	3°5/20.5	17
5 21	18 24.03	-28											

EPHEMERIDES

6 20.3

6 20.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
152512	2005 YF ₁		6 20.3 82°46'	3°5/19.8	18		224426	2005 UJ ₄₁₆		6 20.3 121°46'	2°3/20.3	17	
5 21	18 21.47	-31 46.8	2.330	3.210	10.5	19.9	5 21	18 21.41	-17 18.1	1.821	2.710	12.5	20.5
5 31	18 14.78	-32 50.4	2.270	3.217	7.7	19.8	5 31	18 14.75	-17 9.7	1.765	2.720	8.9	20.3
6 10	18 6.29	-33 48.8	2.236	3.225	4.9	19.6	6 10	18 6.26	-17 5.8	1.732	2.729	5.1	20.1
6 20	17 56.71	-34 38.5	2.230	3.233	3.5	19.5	6 20	17 56.78	-17 6.2	1.726	2.739	2.3	19.9
6 30	17 47.01	-35 16.7	2.251	3.240	5.0	19.6	6 30	17 47.35	-17 10.9	1.747	2.748	4.8	20.1
7 10	17 38.16	-35 42.9	2.300	3.248	7.7	19.8	7 10	17 38.99	-17 19.7	1.795	2.756	8.5	20.4
7 20	17 30.97	-35 58.5	2.374	3.255	10.5	20.0	7 20	17 32.49	-17 32.4	1.866	2.765	12.0	20.6
7 30	17 26.04	-36 5.9	2.470	3.263	12.8	20.2	7 30	17 28.38	-17 48.9	1.959	2.773	15.0	20.8
332968	2011 EM ₇₅		6 20.3 62°35'	1°3/20.3	17		224253	2005 SK ₁₉₄		6 20.3 184°33'	0°8/20.4	18	
5 21	18 22.12	-25 19.8	1.561	2.460	13.6	20.4	5 21	18 22.72	-19 9.9	2.202	3.083	11.0	20.4
5 31	18 15.61	-25 46.5	1.506	2.468	9.6	20.2	5 31	18 15.60	-19 40.6	2.131	3.084	7.7	20.2
6 10	18 6.82	-26 11.7	1.474	2.475	5.1	19.9	6 10	18 6.73	-20 14.8	2.085	3.084	4.1	20.0
6 20	17 56.73	-26 32.3	1.468	2.483	1.3	19.7	6 20	17 56.81	-20 50.7	2.067	3.083	0.9	19.8
6 30	17 46.64	-26 46.8	1.487	2.491	4.8	20.0	6 30	17 46.75	-21 26.7	2.079	3.081	3.8	20.0
7 10	17 37.85	-26 55.2	1.532	2.499	9.2	20.2	7 10	17 37.50	-22 1.5	2.118	3.079	7.5	20.2
7 20	17 31.31	-26 59.0	1.599	2.507	13.1	20.5	7 20	17 29.85	-22 34.5	2.184	3.076	10.8	20.4
7 30	17 27.66	-27 0.4	1.687	2.515	16.4	20.7	7 30	17 24.37	-23 6.0	2.272	3.073	13.6	20.6
332702	2009 RS ₄₁		6 20.3 281°80'	1°7/20.2	18		176050	2000 TU ₁₁		6 20.3 330°39'	1°0/20.3	18	
5 21	18 21.27	-20 35.7	1.596	2.494	13.4	20.8	5 21	18 18.90	-25 40.8	1.913	2.809	11.7	20.3
5 31	18 15.11	-20 11.1	1.517	2.478	9.6	20.5	5 31	18 13.17	-25 51.7	1.843	2.803	8.2	20.0
6 10	18 6.64	-19 46.8	1.461	2.461	5.2	20.2	6 10	18 5.53	-26 0.4	1.797	2.797	4.4	19.8
6 20	17 56.73	-19 23.4	1.430	2.445	1.7	19.9	6 20	17 56.76	-26 5.5	1.777	2.792	1.0	19.5
6 30	17 46.59	-19 1.9	1.425	2.428	5.1	20.1	6 30	17 47.90	-26 6.2	1.783	2.787	4.1	19.8
7 10	17 37.48	-18 43.7	1.446	2.411	9.8	20.3	7 10	17 39.98	-26 2.9	1.816	2.782	8.1	20.0
7 20	17 30.46	-18 30.4	1.489	2.395	14.0	20.6	7 20	17 33.85	-25 57.0	1.873	2.778	11.6	20.2
7 30	17 26.25	-18 23.1	1.551	2.378	17.7	20.8	7 30	17 30.12	-25 50.2	1.951	2.774	14.7	20.4
216487	1999 VA ₁₈₂		6 20.3 356°55'	5°5/19.2	17		14991	1997 UV ₁₄		6 20.3 290°50'	4°1/20.1	18	
5 21	18 16.73	-13 2.3	1.683	2.576	13.1	18.7	5 21	18 18.13	-13 0.8	1.979	2.863	11.9	17.6
5 31	18 11.58	-11 42.0	1.621	2.572	9.9	18.4	5 31	18 12.42	-12 29.6	1.911	2.859	8.8	17.4
6 10	18 4.62	-10 27.5	1.583	2.569	6.8	18.3	6 10	18 5.06	-12 5.1	1.868	2.856	5.8	17.2
6 20	17 56.66	-9 22.9	1.569	2.567	5.5	18.2	6 20	17 56.75	-11 48.8	1.850	2.853	4.1	17.1
6 30	17 48.72	-8 31.8	1.581	2.566	7.3	18.3	6 30	17 48.39	-11 41.7	1.860	2.850	5.7	17.2
7 10	17 41.79	-7 56.3	1.618	2.565	10.4	18.5	7 10	17 40.89	-11 44.1	1.895	2.847	8.8	17.4
7 20	17 36.64	-7 36.5	1.677	2.566	13.7	18.7	7 20	17 34.98	-11 55.2	1.954	2.844	11.9	17.5
7 30	17 33.82	-7 31.4	1.755	2.567	16.5	18.9	7 30	17 31.18	-12 14.0	2.034	2.841	14.7	17.7
122252	2000 OM ₃₈		6 20.3 326°71'	0°6/20.5	18		37890	1998 FY ₅₉		6 20.3 171°14'	1°8/20.3	18	
5 21	18 21.53	-27 59.7	1.351	2.257	14.9	18.7	5 21	18 20.53	-18 44.0	1.806	2.698	12.4	19.2
5 31	18 15.57	-27 7.7	1.277	2.242	10.6	18.5	5 31	18 14.26	-18 39.7	1.741	2.699	8.8	19.0
6 10	18 6.95	-26 5.3	1.226	2.228	5.7	18.1	6 10	18 6.07	-18 38.9	1.701	2.699	4.9	18.7
6 20	17 56.75	-24 53.2	1.198	2.214	0.7	17.7	6 20	17 56.79	-18 41.0	1.686	2.700	1.8	18.5
6 30	17 46.46	-23 34.7	1.196	2.201	5.3	18.0	6 30	17 47.45	-18 46.1	1.698	2.700	4.6	18.7
7 10	17 37.60	-22 15.5	1.218	2.189	10.5	18.3	7 10	17 39.13	-18 53.9	1.737	2.701	8.6	18.9
7 20	17 31.29	-21 1.3	1.262	2.178	15.2	18.5	7 20	17 32.65	-19 4.5	1.799	2.701	12.2	19.2
7 30	17 28.24	-19 56.7	1.324	2.168	19.2	18.8	7 30	17 28.61	-19 18.2	1.882	2.701	15.3	19.4
211119	2002 GX ₃₃		6 20.3 163°84'	0°9/20.3	18		345460	2006 FS ₃₅		6 20.3 144°06'	1°9/20.2	17	
5 21	18 19.14	-24 47.0	2.369	3.256	10.1	20.4	5 21	18 22.14	-26 46.3	1.914	2.804	11.9	20.5
5 31	18 13.02	-25 17.0	2.301	3.257	7.1	20.2	5 31	18 15.45	-27 27.1	1.850	2.807	8.5	20.3
6 10	18 5.32	-25 46.3	2.258	3.258	3.8	20.0	6 10	18 6.73	-28 5.8	1.811	2.809	4.7	20.0
6 20	17 56.70	-26 13.0	2.244	3.259	0.9	19.8	6 20	17 56.82	-28 39.2	1.799	2.812	1.9	19.8
6 30	17 47.99	-26 35.7	2.258	3.260	3.6	20.0	6 30	17 46.79	-29 5.0	1.814	2.815	4.5	20.0
7 10	17 40.05	-26 54.0	2.299	3.261	6.9	20.2	7 10	17 37.77	-29 23.0	1.855	2.817	8.3	20.3
7 20	17 33.58	-27 8.3	2.366	3.262	9.9	20.4	7 20	17 30.67	-29 34.1	1.921	2.819	11.7	20.5
7 30	17 29.12	-27 19.8	2.455	3.262	12.5	20.6	7 30	17 26.11	-29 40.6	2.009	2.821	14.7	20.7
342301	2008 TC ₅₃		6 20.3 242°38'	4°6/20.1	17		429240	2010 AL ₇₆		6 20.4 100°37'	2°2/20.6	18	
5 21	18 19.31	-11 48.6	1.923	2.803	12.4	21.2	5 21	18 20.75	-16 13.7	1.853	2.741	12.4	20.6
5 31	18 13.31	-11 19.9	1.851	2.796	9.3	21.0	5 31	18 14.33	-16 33.7	1.795	2.750	8.8	20.4
6 10	18 5.53	-10 59.2	1.802	2.788	6.2	20.8	6 10	18 6.08	-17 0.0	1.762	2.759	5.0	20.2
6 20	17 56.71	-10 48.0	1.780	2.781	4.6	20.7	6 20	17 56.81	-17 31.4	1.754	2.767	2.2	20.0
6 30	17 47.78	-10 47.2	1.784	2.773	6.2	20.8	6 30	17 47.52	-18 6.5	1.775	2.776	4.6	20.2
7 10	17 39.71	-10 56.8	1.814	2.764	9.3	20.9	7 10	17 39.23	-18 43.6	1.821	2.784	8.3	20.4
7 20	17 33.28	-11 15.8	1.868	2.756	12.5	21.1	7 20	17 32.72	-19 21.7	1.892	2.792	11.8	20.6
7 30	17 29.07	-11 42.9	1.943	2.748	15.4	21.3	7 30	17 28.57	-20 0.0	1.985	2.801	14.7	20.8
314232	2005 PO ₁₄		6 20.3 270°80'	2°1/20.4	18		329760	2004 EU ₁₀₉		6 20.4 90°42'	0°3/20.3	17	
5 21	18 18.77	-16 10.4	2.519	3.398	9.9	21.7	5 21	18 23.25	-22 39.1	1.559	2.457	13.8	21.6
5 31	18 12.78	-16 11.8	2.421	3.371	7.1	21.5	5 31	18 16.27	-22 38.7	1.510	2.470	9.6	21.4
6 10	18 5.26	-16 17.6	2.349	3.343	4.2	21.3	6 10	18 7.13	-22 38.1	1.483	2.484	5.0	21.2
6 20	17 56.73	-16 27.6	2.304	3.315	2.1	21.1	6 20	17 56.85	-22 36.3	1.482	2.498	0.4	20.8
6 30	17 47.94	-16 41.6	2.288	3.286	4.0	21.1	6 30	17 46.70	-22 33.0	1.507	2.511	4.6	21.2
7 10	17 39.68	-16 59.2	2.300	3.257	7.2	21.3	7 10	17 37.91	-22 28.9	1.558	2.525	9.1	21.5
7 20	17 32.65	-17 20.1	2.338	3.227	10.3	21.4	7 20	17 31.38	-22 25.5	1.632	2.538	13.0	21.7
7 30	17 27.43	-17 44.0	2.399	3.197	13.0	21.6	7 30	17 27.63	-22 23.9	1.726	2.551	16.2	22.0
53667	2000 DT ₇₀		6 20.3 252°16'	2°4/20.3	17		342492	2008 UM ₁₆₃		6 20.4 302°09'	1°2/20.3	18	
5 21													

EPHEMERIDES

6 20.4

6 20.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
80450	1999 YW ₂₇		6 20.4 253°29	6°7/19.9	18		462821	2010 RH ₁₆₇		6 20.4 276°74	16°6/15.6	18	
5 21	18 28.07	-38 45.7	1.835	2.703	13.4	19.6	5 21	18 20.23	+13 3.5	1.605	2.391	18.7	20.7
5 31	18 20.28	-39 43.7	1.752	2.684	10.6	19.3	5 31	18 14.44	+15 2.8	1.537	2.369	17.5	20.5
6 10	18 9.59	-40 30.4	1.693	2.665	7.9	19.1	6 10	18 6.40	+16 35.2	1.488	2.346	16.7	20.4
6 20	17 56.96	-40 59.3	1.658	2.645	6.7	19.0	6 20	17 56.89	+17 32.1	1.458	2.323	16.7	20.3
6 30	17 43.84	-41 6.6	1.650	2.624	8.0	19.0	6 30	17 47.01	+17 48.0	1.447	2.300	17.4	20.3
7 10	17 31.85	-40 52.5	1.667	2.603	10.9	19.2	7 10	17 37.98	+17 22.2	1.454	2.277	18.9	20.4
7 20	17 22.33	-40 21.4	1.706	2.581	14.2	19.3	7 20	17 30.83	+16 18.8	1.477	2.253	20.7	20.4
7 30	17 16.18	-39 39.3	1.766	2.558	17.2	19.5	7 30	17 26.34	+14 44.7	1.515	2.229	22.6	20.5
465361	2008 AZ ₉₄		6 20.4 70°44	1°2/20.4	16		109188	2001 QE ₇₂		6 20.4 315°95	2°5/20.3	18	
5 21	18 23.20	-20 12.0	1.385	2.287	14.9	21.6	5 21	18 19.68	-28 25.8	1.646	2.545	13.0	19.2
5 31	18 16.37	-20 18.4	1.342	2.304	10.4	21.4	5 31	18 14.28	-28 50.9	1.558	2.518	9.4	18.9
6 10	18 7.22	-20 27.9	1.320	2.321	5.5	21.2	6 10	18 6.41	-29 12.4	1.493	2.492	5.4	18.6
6 20	17 56.87	-20 39.0	1.323	2.339	1.2	20.9	6 20	17 56.89	-29 27.3	1.453	2.466	2.5	18.3
6 30	17 46.70	-20 50.9	1.352	2.357	5.1	21.2	6 30	17 46.94	-29 33.3	1.438	2.440	5.3	18.5
7 10	17 38.03	-21 3.3	1.406	2.374	9.7	21.6	7 10	17 37.92	-29 30.5	1.449	2.415	9.7	18.7
7 20	17 31.78	-21 16.5	1.481	2.392	13.8	21.8	7 20	17 30.99	-29 20.8	1.481	2.390	13.9	18.8
7 30	17 28.50	-21 31.1	1.576	2.409	17.1	22.1	7 30	17 27.01	-29 7.3	1.533	2.366	17.5	19.0
90286	2003 EB ₁₁		6 20.4 23°62	2°7/20.5	18		442154	2010 VB ₁₉₁		6 20.4 302°02	1°3/20.6	18	
5 21	18 19.60	-30 19.1	1.627	2.525	13.2	18.6	5 21	18 20.86	-29 3.2	2.062	2.950	11.3	20.9
5 31	18 13.80	-30 25.8	1.575	2.534	9.5	18.4	5 31	18 14.56	-28 35.4	1.970	2.925	8.1	20.7
6 10	18 5.88	-30 25.4	1.547	2.544	5.5	18.2	6 10	18 6.32	-28 0.2	1.902	2.901	4.5	20.4
6 20	17 56.83	-30 16.0	1.543	2.555	2.7	18.1	6 20	17 56.89	-27 16.9	1.861	2.876	1.4	20.1
6 30	17 47.89	-29 57.3	1.566	2.567	5.0	18.2	6 30	17 47.29	-26 26.4	1.848	2.851	4.1	20.3
7 10	17 40.27	-29 31.4	1.613	2.579	8.9	18.5	7 10	17 38.58	-25 31.4	1.862	2.827	8.0	20.5
7 20	17 34.82	-29 1.4	1.683	2.592	12.5	18.7	7 20	17 31.63	-24 35.4	1.901	2.802	11.7	20.6
7 30	17 32.09	-28 30.5	1.773	2.606	15.5	19.0	7 30	17 27.08	-23 41.7	1.962	2.778	14.9	20.8
116809	2004 EV ₇₃		6 20.4 29°60	1°1/20.3	18		259798	2004 BT ₇₇		6 20.4 183°22	0°5/20.4	17	
5 21	18 22.64	-24 14.5	1.496	2.397	14.0	19.6	5 21	18 23.96	-24 36.8	1.871	2.759	12.2	22.2
5 31	18 16.19	-24 51.4	1.436	2.398	9.9	19.3	5 31	18 16.71	-24 43.0	1.803	2.760	8.6	22.0
6 10	18 7.28	-25 28.7	1.397	2.399	5.3	19.1	6 10	18 7.42	-24 47.4	1.760	2.760	4.5	21.7
6 20	17 56.89	-26 2.8	1.384	2.400	1.1	18.8	6 20	17 56.94	-24 48.4	1.744	2.760	0.5	21.4
6 30	17 46.36	-26 31.1	1.397	2.401	5.0	19.0	6 30	17 46.41	-24 45.3	1.755	2.759	4.2	21.7
7 10	17 37.09	-26 52.9	1.435	2.402	9.6	19.3	7 10	17 36.96	-24 38.9	1.793	2.757	8.4	21.9
7 20	17 30.15	-27 8.9	1.495	2.404	13.8	19.6	7 20	17 29.47	-24 30.8	1.856	2.755	12.0	22.2
7 30	17 26.26	-27 21.2	1.575	2.405	17.3	19.8	7 30	17 24.57	-24 22.9	1.940	2.752	15.1	22.4
498275	2007 VT ₃₂		6 20.4 253°77	0°6/20.4	17		514559	2017 WQ ₂₇		6 20.4 198°26	2°9/20.6	18	
5 21	18 24.77	-25 5.1	1.656	2.549	13.3	23.0	5 21	18 23.62	-33 24.3	2.549	3.419	10.1	21.9
5 31	18 17.70	-25 5.5	1.572	2.531	9.5	22.7	5 31	18 16.14	-33 27.8	2.473	3.415	7.4	21.7
6 10	18 8.13	-25 3.3	1.511	2.512	5.1	22.4	6 10	18 7.00	-33 23.4	2.422	3.411	4.6	21.5
6 20	17 56.93	-24 56.7	1.476	2.492	0.6	22.0	6 20	17 56.93	-33 9.4	2.400	3.406	2.9	21.4
6 30	17 45.39	-24 44.8	1.468	2.472	4.8	22.3	6 30	17 46.84	-32 45.6	2.406	3.400	4.3	21.4
7 10	17 34.90	-24 29.0	1.486	2.451	9.6	22.5	7 10	17 37.64	-32 13.3	2.441	3.394	7.1	21.6
7 20	17 26.60	-24 11.5	1.527	2.430	13.9	22.7	7 20	17 30.07	-31 35.4	2.502	3.387	9.9	21.8
7 30	17 21.28	-23 55.1	1.588	2.408	17.6	22.9	7 30	17 24.65	-30 55.0	2.586	3.379	12.3	21.9
514375	2016 RC ₆		6 20.4 198°05	7°3/20.5	18		27963	Hartkopf		6 20.4 225°49	0°4/20.4	18	
5 21	18 26.17	-47 39.2	2.621	3.445	11.2	22.3	5 21	18 19.72	-22 22.2	2.127	3.017	10.9	20.1
5 31	18 18.24	-48 20.8	2.554	3.443	9.4	22.1	5 31	18 13.57	-22 19.9	2.056	3.013	7.7	19.9
6 10	18 8.20	-48 47.2	2.510	3.440	8.0	22.0	6 10	18 5.72	-22 17.5	2.009	3.009	4.0	19.7
6 20	17 56.92	-48 54.6	2.492	3.437	7.3	22.0	6 20	17 56.89	-22 14.5	1.989	3.005	0.4	19.4
6 30	17 45.59	-48 41.3	2.500	3.434	7.8	22.0	6 30	17 47.99	-22 10.6	1.997	3.001	3.8	19.6
7 10	17 35.39	-48 8.8	2.533	3.431	9.3	22.1	7 10	17 39.94	-22 6.4	2.032	2.996	7.5	19.9
7 20	17 27.24	-47 21.2	2.590	3.427	11.1	22.2	7 20	17 33.50	-22 2.6	2.092	2.992	10.8	20.1
7 30	17 21.74	-46 23.4	2.667	3.423	12.9	22.4	7 30	17 29.21	-22 0.4	2.174	2.987	13.7	20.2
278286	2007 GZ ₃₆		6 20.4 119°59	0°2/20.4	17		353047	2009 DP ₂₅		6 20.4 254°17	6°0/20.5	18	
5 21	18 22.46	-22 17.5	1.873	2.763	12.2	21.6	5 21	18 19.01	- 5 5.6	2.310	3.163	11.6	21.4
5 31	18 15.52	-22 29.7	1.817	2.775	8.5	21.4	5 31	18 13.02	- 4 49.1	2.223	3.144	9.2	21.2
6 10	18 6.71	-22 42.3	1.786	2.786	4.4	21.2	6 10	18 5.45	- 4 44.5	2.160	3.124	7.0	21.1
6 20	17 56.88	-22 53.9	1.781	2.798	0.2	20.9	6 20	17 56.89	- 4 53.3	2.123	3.103	6.0	21.0
6 30	17 47.09	-23 3.6	1.805	2.809	4.1	21.2	6 30	17 48.11	- 5 16.3	2.113	3.082	6.9	21.0
7 10	17 38.40	-23 11.5	1.855	2.819	8.1	21.5	7 10	17 39.94	- 5 52.5	2.130	3.061	9.2	21.1
7 20	17 31.62	-23 18.3	1.929	2.829	11.6	21.7	7 20	17 33.07	- 6 40.0	2.171	3.039	11.8	21.2
7 30	17 27.28	-23 25.0	2.024	2.839	14.5	21.9	7 30	17 28.08	- 7 36.2	2.234	3.016	14.3	21.4
253575	2003 SY ₃₀₉		6 20.4 265°74	2°4/20.4	17		58708	1998 CX ₁		6 20.4 118°26	2°3/20.3	18	
5 21	18 22.10	-18 2.6	1.505	2.402	14.2	20.7	5 21	18 25.18	-27 21.9	1.484	2.380	14.4	19.7
5 31	18 15.83	-17 55.8	1.430	2.390	10.2	20.4	5 31	18 17.98	-27 57.5	1.428	2.387	10.2	19.4
6 10	18 7.13	-17 53.6	1.378	2.377	5.7	20.1	6 10	18 8.22	-28 29.4	1.395	2.394	5.7	19.2
6 20	17 56.90	-17 56.1	1.351	2.365	2.4	19.9	6 20	17 56.99	-28 53.7	1.388	2.401	2.3	19.0
6 30	17 46.41	-18 3.0	1.350	2.352	5.5	20.1	6 30	17 45.72	-29 8.2	1.406	2.408	5.4	19.2
7 10	17 37.00	-18 14.2	1.373	2.339	10.2	20.3	7 10	17 35.89	-29 13.2	1.449	2.414	9.8	19.5
7 20	17 29.77	-18 29.6	1.419	2.326	14.5	20.5	7 20	17 28.57	-29 11.2	1.515	2.420	13.9	19.7
7 30	17 25.48	-18 49.3	1.484	2.313	18.2	20.7	7 30	17 24.42	-29 5.4	1.601	2.426	17.3	20.0
192775	1999 UE ₁₆		6 20.4 209°85	0°1/20.4	18 R		106219	2000 UC ₃₆		6 20.4 201°68	2°7/20.3	17	
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EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
430967	2005 <i>WA</i> ₅₀		6 20.4 238°66	1°5/20.3	17		202568	2006 <i>EL</i> ₄₈		6 20.4 316°82	0°8/20.3	17	
5 21	18 22.72	-25 54.6	1.814	2.706	12.4	21.8	5 21	18 20.61	-24 31.2	1.622	2.521	13.2	20.5
5 31	18 16.06	-26 24.1	1.741	2.698	8.8	21.6	5 31	18 14.73	-24 51.6	1.552	2.514	9.3	20.3
6 10	18 7.20	-26 52.1	1.691	2.691	4.8	21.3	6 10	18 6.56	-25 11.6	1.505	2.506	5.0	20.0
6 20	17 56.97	-27 15.7	1.668	2.683	1.5	21.0	6 20	17 56.99	-25 28.8	1.483	2.499	0.9	19.7
6 30	17 46.52	-27 33.0	1.672	2.674	4.6	21.2	6 30	17 47.24	-25 41.6	1.488	2.492	4.7	19.9
7 10	17 37.08	-27 43.7	1.702	2.666	8.7	21.5	7 10	17 38.56	-25 49.8	1.517	2.485	9.2	20.2
7 20	17 29.61	-27 49.1	1.756	2.657	12.5	21.7	7 20	17 31.99	-25 54.6	1.570	2.479	13.2	20.4
7 30	17 24.84	-27 51.2	1.831	2.648	15.7	21.9	7 30	17 28.21	-25 57.8	1.642	2.473	16.6	20.6
262097	2006 <i>RO</i> ₈₉		6 20.4 54°65	3°8/20.2	17		1908	Pobeda		6 20.4 28°72	2°6/20.4	18	
5 21	18 21.65	-16 12.1	1.304	2.207	15.5	20.1	5 21	18 21.05	-29 51.5	1.908	2.798	12.0	15.5
5 31	18 15.35	-15 39.9	1.260	2.220	11.2	19.9	5 31	18 14.75	-30 13.4	1.844	2.799	8.6	15.3
6 10	18 6.74	-15 14.6	1.238	2.234	6.7	19.7	6 10	18 6.45	-30 29.9	1.805	2.801	5.0	15.0
6 20	17 56.95	-14 57.6	1.239	2.249	3.8	19.6	6 20	17 57.00	-30 38.4	1.792	2.803	2.6	14.9
6 30	17 47.34	-14 49.9	1.264	2.263	6.4	19.8	6 30	17 47.51	-30 37.7	1.805	2.805	4.8	15.0
7 10	17 39.22	-14 51.6	1.314	2.278	10.6	20.1	7 10	17 39.09	-30 28.8	1.845	2.807	8.3	15.2
7 20	17 33.50	-15 2.0	1.384	2.293	14.6	20.3	7 20	17 32.60	-30 13.9	1.909	2.809	11.7	15.5
7 30	17 30.73	-15 19.9	1.474	2.309	18.0	20.6	7 30	17 28.64	-29 55.8	1.993	2.811	14.6	15.7
243816	2000 <i>SY</i> ₂₉₇		6 20.4 122°72	0°1/20.4	17		141598	2002 <i>JJ</i>		6 20.4 24°35	5°5/20.5	17	
5 21	18 24.69	-24 30.2	1.464	2.362	14.4	19.9	5 21	18 20.10	-12 33.7	1.203	2.106	16.5	19.2
5 31	18 17.49	-24 10.8	1.407	2.369	10.1	19.7	5 31	18 14.54	-12 8.1	1.152	2.110	12.3	19.0
6 10	18 7.90	-23 48.2	1.373	2.375	5.3	19.4	6 10	18 6.48	-11 54.8	1.122	2.115	8.0	18.7
6 20	17 57.00	-23 22.2	1.364	2.381	0.2	19.0	6 20	17 57.01	-11 55.5	1.114	2.120	5.5	18.6
6 30	17 46.20	-22 53.5	1.382	2.386	4.9	19.4	6 30	17 47.54	-12 10.5	1.130	2.126	7.6	18.7
7 10	17 36.87	-22 24.6	1.424	2.392	9.7	19.7	7 10	17 39.50	-12 38.4	1.168	2.132	11.7	19.0
7 20	17 29.97	-21 58.2	1.489	2.397	13.9	20.0	7 20	17 33.93	-13 16.6	1.227	2.139	15.9	19.3
7 30	17 26.11	-21 36.4	1.574	2.402	17.4	20.2	7 30	17 31.46	-14 2.1	1.303	2.146	19.5	19.5
321119	2008 <i>TQ</i> ₁₇₆		6 20.4 324°03	4°0/21.1	18		462211	2007 <i>VG</i> ₁₈₁		6 20.4 87°76	10°0/19.3	18	
5 21	18 19.25	-11 57.8	1.400	2.295	15.1	19.5	5 21	18 25.18	- 2 8.3	1.583	2.435	16.0	21.1
5 31	18 14.04	-12 32.8	1.323	2.278	11.2	19.2	5 31	18 17.25	- 0 22.7	1.554	2.465	13.1	21.0
6 10	18 6.34	-13 23.8	1.268	2.261	7.0	18.9	6 10	18 7.54	+ 1 3.4	1.548	2.494	10.8	20.9
6 20	17 56.96	-14 29.7	1.236	2.245	4.0	18.7	6 20	17 57.05	+ 2 5.0	1.567	2.522	10.0	20.9
6 30	17 47.14	-15 47.5	1.230	2.230	6.2	18.8	6 30	17 46.92	+ 2 39.2	1.611	2.550	11.0	21.1
7 10	17 38.28	-17 12.6	1.247	2.216	10.7	19.0	7 10	17 38.19	+ 2 47.2	1.677	2.578	13.0	21.2
7 20	17 31.55	-18 40.5	1.288	2.202	15.2	19.2	7 20	17 31.57	+ 2 32.4	1.765	2.605	15.4	21.5
7 30	17 27.83	-20 7.6	1.347	2.189	19.0	19.4	7 30	17 27.48	+ 1 59.9	1.871	2.631	17.5	21.7
510959	2013 <i>GL</i> ₃₄		6 20.4 164°82	5°0/20.0	18		103328	2000 <i>AC</i> ₆₉		6 20.4 278°26	1°4/20.2	18	
5 21	18 17.01	- 8 27.4	2.435	3.301	10.6	21.6	5 21	18 21.43	-21 54.6	1.866	2.758	12.1	19.5
5 31	18 11.41	- 7 49.8	2.371	3.302	8.2	21.4	5 31	18 15.03	-21 11.4	1.783	2.741	8.6	19.2
6 10	18 4.51	- 7 20.7	2.331	3.304	6.0	21.3	6 10	18 6.63	-20 26.0	1.724	2.724	4.7	19.0
6 20	17 56.90	- 7 1.7	2.318	3.305	5.0	21.2	6 20	17 57.03	-19 39.3	1.692	2.707	1.4	18.7
6 30	17 49.27	- 6 53.8	2.332	3.306	6.0	21.3	6 30	17 47.28	-18 53.2	1.687	2.689	4.6	18.9
7 10	17 42.34	- 6 57.1	2.373	3.308	8.2	21.4	7 10	17 38.47	-18 10.4	1.709	2.672	8.8	19.1
7 20	17 36.68	- 7 10.6	2.438	3.308	10.6	21.6	7 20	17 31.50	-17 33.1	1.755	2.655	12.6	19.3
7 30	17 32.74	- 7 32.7	2.525	3.309	12.8	21.8	7 30	17 26.99	-17 3.2	1.822	2.637	15.9	19.5
29562	Danmacdonald		6 20.4 24°20	5°6/20.4	18		129967	1999 <i>UL</i> ₁₀		6 20.4 190°54	16°1/18.9	18	
5 21	18 17.34	- 8 10.3	1.979	2.852	12.4	17.8	5 21	18 44.14	-54 47.6	1.350	2.167	20.1	19.4
5 31	18 11.88	- 7 44.2	1.918	2.854	9.6	17.6	5 31	18 33.99	-56 59.7	1.301	2.167	18.1	19.3
6 10	18 4.84	- 7 29.3	1.880	2.856	6.9	17.5	6 10	18 17.84	-58 41.8	1.270	2.166	16.6	19.2
6 20	17 56.91	- 7 27.0	1.867	2.858	5.6	17.4	6 20	17 57.47	-59 38.7	1.259	2.164	16.1	19.1
6 30	17 48.95	- 7 38.0	1.881	2.860	6.7	17.5	6 30	17 36.35	-59 42.1	1.268	2.162	16.8	19.2
7 10	17 41.84	- 8 1.4	1.920	2.863	9.3	17.6	7 10	17 18.39	-58 56.0	1.296	2.159	18.5	19.3
7 20	17 36.26	- 8 35.4	1.982	2.865	12.1	17.8	7 20	17 6.15	-57 33.6	1.341	2.155	20.6	19.4
7 30	17 32.73	- 9 17.5	2.065	2.868	14.7	18.0	7 30	17 0.52	-55 50.4	1.401	2.150	22.8	19.6
261483	2005 <i>VY</i> ₁₂₅		6 20.4 150°33	6°9/20.0	16		172569	2003 <i>UB</i> ₁₇₅		6 20.4 187°22	0°0/20.4	17	
5 21	18 16.74	- 2 11.5	2.428	3.272	11.4	21.0	5 21	18 24.18	-23 1.8	1.827	2.716	12.5	21.6
5 31	18 11.21	- 1 27.8	2.368	3.275	9.3	20.9	5 31	18 16.95	-23 12.2	1.759	2.716	8.8	21.4
6 10	18 4.41	- 0 56.7	2.331	3.278	7.6	20.8	6 10	18 7.63	-23 22.4	1.715	2.715	4.6	21.1
6 20	17 56.90	- 0 40.4	2.320	3.281	6.9	20.7	6 20	17 57.08	-23 30.7	1.698	2.714	0.2	20.8
6 30	17 49.38	- 0 39.8	2.336	3.284	7.6	20.8	6 30	17 46.43	-23 36.4	1.708	2.712	4.3	21.1
7 10	17 42.55	- 0 54.6	2.376	3.286	9.3	20.9	7 10	17 36.84	-23 39.5	1.745	2.709	8.5	21.4
7 20	17 36.98	- 1 22.9	2.440	3.289	11.3	21.0	7 20	17 29.24	-23 41.2	1.807	2.706	12.3	21.6
7 30	17 33.10	- 2 2.3	2.525	3.291	13.3	21.2	7 30	17 24.26	-23 43.1	1.889	2.702	15.5	21.8
374301	2005 <i>SR</i> ₁₃₉		6 20.4 119°31	1°5/20.3	17		156941	2003 <i>GY</i> ₁		6 20.4 29°46	13°1/20.9	17	
5 21	18 23.03	-26 23.7	1.666	2.561	13.2	20.9	5 21	18 17.45	+ 3 58.2	1.341	2.191	18.4	18.8
5 31	18 16.27	-26 45.3	1.606	2.565	9.3	20.7	5 31	18 12.36	+ 5 13.2	1.303	2.202	15.9	18.7
6 10	18 7.28	-27 4.1	1.569	2.569	5.0	20.4	6 10	18 5.22	+ 6 0.1	1.284	2.213	13.9	18.6
6 20	17 57.00	-27 17.4	1.558	2.573	1.5	20.2	6 20	17 56.99	+ 6 14.0	1.285	2.226	13.1	18.5
6 30	17 46.69	-27 23.8	1.574	2.577	4.7	20.4	6 30	17 48.87	+ 5 53.3	1.307	2.239	13.6	18.6
7 10	17 37.60	-27 24.0	1.616	2.581	8.9	20.7	7 10	17 42.01	+ 5 1.4	1.349	2.252	15.4	18.8
7 20	17 30.69	-27 19.7	1.680	2.585	12.8	20.9	7 20	17 37.23	+ 3 44.7	1.410	2.267	17.6	18.9
7 30	17 26.58	-27 13.3	1.766	2.588	16.0	21.2	7 30	17 35.09	+ 2 10.7	1.487	2.282	19.8	19.1
462535	2009 <i>BD</i> ₄₈		6 20.4 201°72	1°1/20.4	17		107344						

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6 20.4

6 20.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
471614	2012 <i>SF</i> ₅₉		6 20.4 326°28	0°6/20.5	16		253591	2003 <i>TN</i> ₁₂		6 20.4 224°43	1°0/20.4	17	
5 21	18 19.72	-26 21.5	1.364	2.272	14.6	20.8	5 21	18 24.75	-25 50.5	1.802	2.691	12.6	21.8
5 31	18 14.47	-25 57.3	1.288	2.254	10.4	20.5	5 31	18 17.51	-25 56.4	1.725	2.682	9.0	21.5
6 10	18 6.58	-25 27.1	1.234	2.236	5.6	20.2	6 10	18 8.02	-25 59.4	1.672	2.672	4.8	21.3
6 20	17 57.05	-24 50.4	1.203	2.219	0.7	19.8	6 20	17 57.14	-25 57.4	1.646	2.661	1.0	21.0
6 30	17 47.28	-24 8.4	1.197	2.203	5.2	20.0	6 30	17 46.07	-25 49.8	1.646	2.650	4.5	21.2
7 10	17 38.77	-23 24.2	1.215	2.188	10.4	20.3	7 10	17 36.06	-25 37.4	1.674	2.638	8.8	21.4
7 20	17 32.69	-22 41.6	1.254	2.174	15.1	20.5	7 20	17 28.10	-25 22.5	1.726	2.625	12.7	21.6
7 30	17 29.80	-22 4.0	1.312	2.160	19.1	20.7	7 30	17 22.89	-25 7.6	1.798	2.612	16.1	21.8
292930	2006 <i>VX</i> ₆₉		6 20.4 263°15	0°1/20.4	18		121046	1999 <i>CD</i> ₃₄		6 20.4 133°64	1°3/20.4	17	
5 21	18 23.01	-22 37.1	1.691	2.585	13.0	21.4	5 21	18 23.61	-26 40.8	1.794	2.685	12.6	20.3
5 31	18 16.47	-22 50.9	1.608	2.567	9.3	21.1	5 31	18 16.54	-26 49.9	1.735	2.692	8.9	20.0
6 10	18 7.56	-23 5.6	1.548	2.549	4.9	20.8	6 10	18 7.40	-26 55.3	1.700	2.700	4.8	19.8
6 20	17 57.10	-23 19.4	1.515	2.531	0.2	20.4	6 20	17 57.12	-26 55.2	1.692	2.707	1.3	19.6
6 30	17 46.28	-23 31.0	1.508	2.512	4.6	20.7	6 30	17 46.87	-26 49.0	1.710	2.713	4.4	19.8
7 10	17 36.40	-23 40.2	1.527	2.493	9.3	20.9	7 10	17 37.82	-26 37.8	1.755	2.719	8.4	20.1
7 20	17 28.57	-23 47.7	1.569	2.473	13.5	21.1	7 20	17 30.83	-26 23.6	1.824	2.725	12.1	20.3
7 30	17 23.55	-23 55.0	1.632	2.454	17.1	21.3	7 30	17 26.49	-26 9.0	1.914	2.731	15.1	20.5
422461	2014 <i>SV</i> ₃₁₃		6 20.4 73°25	5°2/20.4	17		171767	2001 <i>AW</i> ₈		6 20.4 63°05	0°1/20.4	18	
5 21	18 21.92	-12 38.0	1.335	2.230	15.7	20.7	5 21	18 23.34	-21 42.8	1.340	2.243	15.1	19.7
5 31	18 15.66	-12 11.4	1.282	2.235	11.7	20.5	5 31	18 16.79	-22 13.9	1.289	2.252	10.6	19.5
6 10	18 7.03	-11 55.6	1.249	2.240	7.6	20.3	6 10	18 7.69	-22 47.7	1.259	2.261	5.6	19.2
6 20	17 57.07	-11 52.4	1.241	2.246	5.2	20.2	6 20	17 57.13	-23 21.1	1.255	2.271	0.2	18.8
6 30	17 47.12	-12 2.1	1.257	2.251	7.2	20.3	6 30	17 46.58	-23 51.5	1.275	2.280	5.1	19.2
7 10	17 38.51	-12 23.9	1.296	2.256	11.2	20.5	7 10	17 37.47	-24 17.9	1.320	2.290	10.0	19.5
7 20	17 32.25	-12 55.7	1.357	2.261	15.2	20.8	7 20	17 30.88	-24 40.7	1.387	2.300	14.3	19.8
7 30	17 28.95	-13 35.1	1.436	2.267	18.6	21.0	7 30	17 27.47	-25 1.0	1.473	2.310	17.9	20.1
257311	2009 <i>HM</i> ₈₈		6 20.4 40°14	3°9/20.2	17		271081	2003 <i>OF</i> ₁₀		6 20.4 289°35	4°5/20.6	17	
5 21	18 23.76	-29 15.9	1.125	2.036	16.8	20.0	5 21	18 24.97	-32 58.5	1.379	2.275	15.3	20.4
5 31	18 17.46	-30 8.7	1.085	2.050	12.0	19.8	5 31	18 18.43	-33 17.4	1.303	2.258	11.4	20.1
6 10	18 8.12	-30 54.8	1.066	2.064	7.1	19.5	6 10	18 8.80	-33 25.9	1.248	2.241	7.2	19.9
6 20	17 57.11	-31 28.5	1.069	2.080	3.9	19.4	6 20	17 57.18	-33 19.2	1.216	2.224	4.5	19.7
6 30	17 46.24	-31 46.8	1.095	2.096	6.8	19.6	6 30	17 45.21	-32 55.4	1.209	2.207	6.8	19.7
7 10	17 37.26	-31 50.5	1.144	2.113	11.4	19.9	7 10	17 34.66	-32 16.8	1.226	2.191	11.3	19.9
7 20	17 31.36	-31 43.7	1.214	2.130	15.7	20.2	7 20	17 26.91	-31 28.6	1.265	2.174	15.7	20.2
7 30	17 29.14	-31 30.8	1.301	2.148	19.3	20.5	7 30	17 22.82	-30 37.1	1.321	2.158	19.6	20.4
359518	2010 <i>RV</i> ₅₉		6 20.4 297°92	1°9/20.5	18		320495	2007 <i>WL</i> ₂₃		6 20.4 193°39	1°1/20.4	18	
5 21	18 19.59	-28 48.5	2.101	2.990	11.1	20.9	5 21	18 19.62	-20 1.5	2.105	2.994	11.1	21.4
5 31	18 13.70	-28 56.0	2.020	2.975	7.9	20.7	5 31	18 13.54	-20 0.7	2.037	2.993	7.8	21.2
6 10	18 5.93	-28 58.8	1.963	2.960	4.5	20.4	6 10	18 5.78	-20 1.8	1.993	2.993	4.2	21.0
6 20	17 57.03	-28 55.2	1.932	2.946	1.9	20.2	6 20	17 57.07	-20 4.3	1.977	2.992	1.2	20.7
6 30	17 47.96	-28 44.7	1.930	2.931	4.2	20.3	6 30	17 48.29	-20 8.1	1.988	2.991	3.9	20.9
7 10	17 39.75	-28 28.0	1.953	2.917	7.8	20.5	7 10	17 40.37	-20 13.0	2.026	2.989	7.6	21.2
7 20	17 33.22	-28 7.2	2.001	2.902	11.2	20.7	7 20	17 34.04	-20 19.6	2.089	2.988	10.9	21.4
7 30	17 29.01	-27 44.7	2.071	2.888	14.2	20.9	7 30	17 29.83	-20 28.1	2.173	2.987	13.7	21.5
504871	2010 <i>VA</i> ₃₈		6 20.4 305°78	2°7/20.4	17		407719	2011 <i>UX</i> ₂₇₄		6 20.4 264°90	1°0/20.4	17	
5 21	18 20.45	-18 4.0	1.269	2.177	15.5	21.2	5 21	18 25.06	-25 24.1	1.418	2.317	14.7	21.3
5 31	18 15.23	-17 52.7	1.187	2.151	11.3	20.8	5 31	18 18.31	-25 31.9	1.339	2.300	10.5	21.0
6 10	18 7.14	-17 46.8	1.125	2.126	6.5	20.5	6 10	18 8.70	-25 37.2	1.281	2.282	5.7	20.7
6 20	17 57.09	-17 46.7	1.087	2.100	2.7	20.2	6 20	17 57.19	-25 37.5	1.249	2.264	1.0	20.3
6 30	17 46.49	-17 52.5	1.072	2.075	6.3	20.3	6 30	17 45.27	-25 31.5	1.241	2.246	5.4	20.6
7 10	17 36.93	-18 4.4	1.080	2.051	11.6	20.5	7 10	17 34.56	-25 20.1	1.258	2.227	10.6	20.8
7 20	17 29.80	-18 22.3	1.108	2.027	16.7	20.7	7 20	17 26.36	-25 5.9	1.298	2.208	15.4	21.0
7 30	17 26.07	-18 45.8	1.154	2.003	21.1	21.0	7 30	17 21.56	-24 52.1	1.356	2.188	19.4	21.2
73465	Buonanno		6 20.4 249°66	0°3/20.4	18		175705	1995 <i>WW</i> ₄₀		6 20.4 165°06	0°3/20.4	17	
5 21	18 21.28	-20 42.2	2.056	2.943	11.4	19.0	5 21	18 19.36	-24 10.5	2.323	3.210	10.2	20.9
5 31	18 14.89	-21 18.2	1.976	2.933	8.0	18.8	5 31	18 13.25	-24 14.6	2.256	3.212	7.2	20.7
6 10	18 6.59	-21 57.7	1.922	2.922	4.2	18.5	6 10	18 5.59	-24 17.5	2.214	3.214	3.8	20.5
6 20	17 57.08	-22 38.3	1.894	2.911	0.3	18.2	6 20	17 57.06	-24 18.3	2.199	3.215	0.3	20.2
6 30	17 47.31	-23 18.0	1.895	2.899	3.9	18.5	6 30	17 48.50	-24 16.6	2.212	3.216	3.5	20.5
7 10	17 38.30	-23 55.4	1.924	2.888	7.9	18.7	7 10	17 40.76	-24 12.9	2.253	3.217	6.9	20.7
7 20	17 30.93	-24 29.8	1.977	2.876	11.4	18.9	7 20	17 34.51	-24 8.2	2.320	3.218	10.0	20.9
7 30	17 25.86	-25 1.6	2.053	2.864	14.5	19.1	7 30	17 30.26	-24 3.5	2.408	3.219	12.6	21.1
505656	2014 <i>SG</i> ₃₃₇		6 20.4 318°48	2°2/20.4	17		43407	2000 <i>WX</i> ₁₃₅		6 20.4 81°92	4°3/20.6	18	
5 21	18 19.14	-19 13.3	1.038	1.958	17.1	20.9	5 21	18 22.62	-13 44.0	1.382	2.276	15.4	18.6
5 31	18 14.70	-19 9.6	0.965	1.935	12.4	20.6	5 31	18 16.05	-13 32.7	1.333	2.288	11.2	18.4
6 10	18 7.02	-19 11.8	0.910	1.913	6.9	20.2	6 10	18 7.20	-13 31.3	1.306	2.300	6.9	18.2
6 20	17 57.10	-19 19.7	0.876	1.891	2.2	19.9	6 20	17 57.13	-13 40.4	1.304	2.311	4.3	18.1
6 30	17 46.58	-19 32.7	0.864	1.870	6.6	20.0	6 30	17 47.14	-13 59.3	1.326	2.323	6.4	18.2
7 10	17 37.34	-19 50.3	0.874	1.851	12.7	20.3	7 10	17 38.52	-14 26.8	1.372	2.335	10.5	18.5
7 20	17 30.95	-20 12.4	0.901	1.832	18.3	20.5	7 20	17 32.22	-15 1.0	1.441	2.346	14.4	18.8
7 30	17 28.47	-20 38.7	0.945	1.815	23.1	20.8	7 30	17 28.81	-15 39.9	1.529	2.358	17.8	19.0
228601	2002 <i>AR</i> ₁₆₃		6 20.4 233°35	0°8/20.4	18		38						

EPHEMERIDES

6 20.4

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
106346	2000 <i>UA</i> ₁₁₂		6 20.4 207°21	1°3/20.3	18		59793	Clapiès		6 20.4 317°82	3°8/20.7	18	
5 21	18 19.75	-26 50.7	2.679	3.560	9.3	20.7	5 21	18 17.79	-11 40.4	2.119	2.997	11.5	19.0
5 31	18 13.47	-27 17.0	2.603	3.555	6.5	20.5	5 31	18 12.26	-11 41.2	2.049	2.994	8.5	18.8
6 10	18 5.72	-27 41.3	2.553	3.551	3.6	20.3	6 10	18 5.15	-11 50.8	2.005	2.992	5.6	18.6
6 20	17 57.08	-28 1.8	2.531	3.545	1.3	20.1	6 20	17 57.13	-12 9.4	1.986	2.989	3.8	18.5
6 30	17 48.33	-28 17.3	2.539	3.540	3.4	20.3	6 30	17 49.01	-12 36.4	1.994	2.987	5.2	18.6
7 10	17 40.24	-28 27.6	2.575	3.534	6.4	20.5	7 10	17 41.65	-13 10.8	2.029	2.984	8.1	18.8
7 20	17 33.47	-28 33.6	2.637	3.528	9.2	20.7	7 20	17 35.74	-13 50.8	2.089	2.982	11.2	19.0
7 30	17 28.55	-28 36.5	2.722	3.521	11.6	20.8	7 30	17 31.82	-14 35.0	2.170	2.980	13.8	19.1
309671	2008 <i>EN</i> ₄₉		6 20.4 121°72	4°3/20.5	18		195609	2002 <i>KM</i> ₁₃		6 20.4 118°52	1°6/20.4	17	
5 21	18 21.73	-35 57.8	2.268	3.141	11.0	20.7	5 21	18 22.01	-26 42.8	1.806	2.699	12.4	20.0
5 31	18 15.11	-36 25.4	2.204	3.143	8.3	20.5	5 31	18 15.54	-27 5.5	1.743	2.701	8.8	19.8
6 10	18 6.64	-36 43.9	2.164	3.145	5.7	20.3	6 10	18 6.98	-27 25.4	1.703	2.703	4.8	19.5
6 20	17 57.12	-36 50.4	2.150	3.147	4.3	20.2	6 20	17 57.21	-27 40.1	1.690	2.704	1.6	19.3
6 30	17 47.57	-36 43.9	2.163	3.149	5.5	20.3	6 30	17 47.36	-27 48.1	1.703	2.706	4.5	19.5
7 10	17 39.00	-36 25.4	2.203	3.151	8.0	20.5	7 10	17 38.60	-27 49.7	1.743	2.707	8.5	19.8
7 20	17 32.23	-35 57.8	2.268	3.153	10.7	20.6	7 20	17 31.84	-27 46.7	1.806	2.709	12.1	20.0
7 30	17 27.82	-35 24.7	2.354	3.154	13.2	20.8	7 30	17 27.69	-27 41.3	1.890	2.710	15.2	20.2
235573	2004 <i>KB</i> ₈		6 20.4 316°77	0°1/20.4	18		510845	2013 <i>CO</i> ₄₇		6 20.4 222°49	0°2/20.4	18	
5 21	18 19.81	-21 35.2	1.021	1.941	17.2	19.2	5 21	18 19.21	-23 13.7	2.456	3.341	9.8	22.2
5 31	18 15.41	-22 6.5	0.943	1.915	12.4	18.8	5 31	18 13.14	-23 9.0	2.380	3.335	6.9	22.0
6 10	18 7.56	-22 44.7	0.885	1.889	6.7	18.4	6 10	18 5.57	-23 3.4	2.329	3.329	3.6	21.8
6 20	17 57.18	-23 26.5	0.848	1.864	0.3	17.9	6 20	17 57.15	-22 56.5	2.307	3.323	0.2	21.5
6 30	17 45.97	-24 8.0	0.833	1.840	6.4	18.2	6 30	17 48.66	-22 48.2	2.313	3.316	3.4	21.8
7 10	17 35.97	-24 46.6	0.839	1.817	12.9	18.5	7 10	17 40.90	-22 39.1	2.346	3.309	6.7	22.0
7 20	17 28.95	-25 21.3	0.863	1.795	18.7	18.7	7 20	17 34.53	-22 30.1	2.406	3.302	9.7	22.1
7 30	17 26.12	-25 52.8	0.902	1.774	23.7	18.9	7 30	17 30.06	-22 22.4	2.488	3.295	12.3	22.3
316619	2011 <i>WU</i> ₅₇		6 20.4 83°32	3°7/19.8	16		464388	2016 <i>BQ</i> ₂		6 20.4 110°53	4°0/20.7	17	
5 21	18 18.46	-14 16.8	2.247	3.127	10.8	20.4	5 21	18 23.13	-14 3.6	1.353	2.248	15.6	21.1
5 31	18 12.52	-13 23.8	2.185	3.131	8.0	20.2	5 31	18 16.60	-14 3.0	1.297	2.252	11.4	20.8
6 10	18 5.17	-12 35.3	2.148	3.136	5.2	20.1	6 10	18 7.63	-14 12.8	1.262	2.257	6.9	20.6
6 20	17 57.08	-11 53.0	2.138	3.141	3.7	20.0	6 20	17 57.24	-14 32.8	1.252	2.261	4.0	20.4
6 30	17 49.03	-11 19.0	2.157	3.145	5.2	20.1	6 30	17 46.80	-15 1.9	1.266	2.266	6.4	20.6
7 10	17 41.80	-10 54.2	2.202	3.150	8.0	20.3	7 10	17 37.69	-15 38.3	1.305	2.270	10.7	20.8
7 20	17 36.01	-10 39.0	2.272	3.155	10.8	20.5	7 20	17 30.95	-16 20.1	1.366	2.274	14.9	21.1
7 30	17 32.12	-10 32.8	2.363	3.159	13.2	20.6	7 30	17 27.25	-17 5.3	1.446	2.278	18.4	21.3
343413	2010 <i>CX</i> ₁₈₁		6 20.4 119°69	0°2/20.4	17		244168	2001 <i>XS</i> ₇₈		6 20.4 185°83	0°9/20.4	18	
5 21	18 21.05	-23 3.9	1.843	2.736	12.2	21.5	5 21	18 19.04	-20 11.5	2.437	3.321	9.9	21.0
5 31	18 14.72	-22 59.7	1.780	2.739	8.5	21.3	5 31	18 13.00	-20 18.6	2.367	3.321	7.0	20.8
6 10	18 6.47	-22 54.8	1.740	2.741	4.5	21.1	6 10	18 5.50	-20 27.4	2.322	3.321	3.7	20.6
6 20	17 57.14	-22 48.6	1.727	2.743	0.3	20.7	6 20	17 57.16	-20 37.2	2.305	3.320	0.9	20.4
6 30	17 47.80	-22 40.9	1.741	2.745	4.1	21.1	6 30	17 48.75	-20 47.6	2.316	3.319	3.4	20.6
7 10	17 39.51	-22 32.5	1.781	2.747	8.2	21.3	7 10	17 41.07	-20 58.3	2.356	3.318	6.7	20.8
7 20	17 33.08	-22 24.7	1.845	2.749	11.8	21.5	7 20	17 34.76	-21 9.6	2.421	3.316	9.7	21.0
7 30	17 29.11	-22 18.8	1.930	2.751	14.9	21.8	7 30	17 30.31	-21 21.6	2.508	3.315	12.3	21.1
337194	1999 <i>VQ</i> ₂₁₁		6 20.4 227°17	2°1/20.3	17		324482	2006 <i>UK</i> ₁₃₃		6 20.4 336°68	7°1/19.7	17	
5 21	18 22.26	-27 58.8	1.978	2.866	11.7	21.3	5 21	18 18.83	-11 19.4	1.246	2.147	16.2	20.7
5 31	18 15.67	-28 31.4	1.907	2.862	8.4	21.1	5 31	18 13.76	-10 10.9	1.184	2.138	12.4	20.5
6 10	18 7.04	-29 0.8	1.859	2.857	4.7	20.8	6 10	18 6.21	-9 12.7	1.143	2.130	8.8	20.2
6 20	17 57.17	-29 24.1	1.839	2.852	2.1	20.6	6 20	17 57.19	-8 29.6	1.124	2.123	7.1	20.1
6 30	17 47.13	-29 39.5	1.846	2.846	4.5	20.8	6 30	17 48.03	-8 5.1	1.129	2.116	9.0	20.2
7 10	17 38.03	-29 46.9	1.880	2.841	8.2	21.0	7 10	17 40.12	-8 0.5	1.155	2.110	12.8	20.4
7 20	17 30.79	-29 47.9	1.938	2.835	11.7	21.2	7 20	17 34.54	-8 14.4	1.201	2.105	16.8	20.6
7 30	17 26.06	-29 44.6	2.017	2.829	14.6	21.4	7 30	17 31.99	-8 43.7	1.265	2.101	20.4	20.8
299375	2005 <i>UL</i> ₂₆₈		6 20.4 307°44	1°0/20.4	17		59709	1999 <i>JL</i> ₁₂₃		6 20.4 318°46	5°4/19.7	18	
5 21	18 21.38	-21 14.4	1.093	2.008	16.8	20.6	5 21	18 20.28	-12 51.3	1.641	2.529	13.7	18.4
5 31	18 16.22	-21 15.5	1.019	1.988	12.0	20.3	5 31	18 14.27	-11 46.6	1.577	2.526	10.3	18.2
6 10	18 7.83	-21 19.7	0.965	1.968	6.5	19.9	6 10	18 6.29	-10 48.5	1.536	2.523	7.0	18.0
6 20	17 57.21	-21 25.6	0.932	1.948	1.1	19.5	6 20	17 57.19	-10 0.4	1.520	2.520	5.4	17.9
6 30	17 46.03	-21 32.3	0.923	1.929	6.2	19.7	6 30	17 48.06	-9 25.2	1.531	2.517	7.2	18.0
7 10	17 36.18	-21 39.8	0.935	1.911	12.3	20.0	7 10	17 39.99	-9 4.3	1.565	2.515	10.5	18.1
7 20	17 29.19	-21 49.0	0.966	1.893	17.8	20.2	7 20	17 33.84	-8 57.6	1.623	2.512	14.0	18.3
7 30	17 26.07	-22 1.1	1.014	1.875	22.5	20.5	7 30	17 30.18	-9 3.8	1.699	2.510	17.0	18.6
439859	1999 <i>RF</i> ₉		6 20.4 283°23	0°5/20.4	15		216475	1999 <i>RD</i> ₁₁₀		6 20.4 320°54	6°7/19.1	18	
5 21	18 18.70	-21 50.0	2.240	3.129	10.5	22.6	5 21	18 16.98	-9 16.1	1.794	2.675	13.1	19.3
5 31	18 12.98	-21 50.0	2.154	3.111	7.4	22.4	5 31	18 12.00	-8 3.2	1.712	2.652	10.2	19.0
6 10	18 5.58	-21 50.5	2.092	3.092	3.9	22.1	6 10	18 5.15	-6 58.0	1.654	2.630	7.7	18.8
6 20	17 57.13	-21 51.0	2.058	3.074	0.5	21.8	6 20	17 57.15	-6 4.6	1.620	2.608	6.7	18.7
6 30	17 48.48	-21 51.1	2.052	3.055	3.7	22.0	6 30	17 48.93	-5 26.5	1.612	2.587	8.1	18.8
7 10	17 40.53	-21 51.0	2.072	3.037	7.4	22.2	7 10	17 41.50	-5 5.6	1.628	2.566	11.0	18.9
7 20	17 34.05	-21 51.4	2.118	3.018	10.7	22.4	7 20	17 35.69	-5 1.7	1.666	2.546	14.2	19.0
7 30	17 29.61	-21 53.1	2.186	2.999	13.6	22.6	7 30	17 32.16	-5 13.3	1.723	2.526	17.1	19.2
470330	2007 <i>RC</i> ₂₉		6 20.4 258°71	3°3/20.4	17		119908	2002 <i>EO</i> _{23</}					

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6 20.4

6 20.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
443115	2014 <i>AU</i> ₆		6 20.4 115°83	2°9/20.8	17		257788	2000 <i>DJ</i> ₇₆		6 20.4 226°90	4°9/20.5	18	
5 21	18 20.57	-13 53.3	1.927	2.810	12.2	20.9	5 21	18 27.59	-36 41.2	2.072	2.939	12.1	20.4
5 31	18 14.32	-14 15.5	1.864	2.814	8.9	20.7	5 31	18 19.58	-37 8.8	1.991	2.927	9.3	20.1
6 10	18 6.29	-14 46.0	1.825	2.818	5.3	20.5	6 10	18 9.20	-37 25.7	1.934	2.914	6.4	19.9
6 20	17 57.23	-15 24.0	1.813	2.823	2.9	20.3	6 20	17 57.37	-37 28.0	1.903	2.900	4.9	19.8
6 30	17 48.09	-16 7.7	1.828	2.827	4.8	20.5	6 30	17 45.32	-37 13.6	1.900	2.885	6.2	19.9
7 10	17 39.84	-16 55.2	1.870	2.831	8.3	20.7	7 10	17 34.36	-36 44.1	1.924	2.869	9.1	20.0
7 20	17 33.27	-17 44.6	1.937	2.835	11.6	20.9	7 20	17 25.53	-36 3.4	1.972	2.853	12.3	20.2
7 30	17 28.96	-18 34.7	2.025	2.839	14.5	21.1	7 30	17 19.53	-35 16.5	2.042	2.836	15.1	20.4
254377	2004 <i>TJ</i> ₁₃₇		6 20.4 296°71	0°8/20.4	18		40517	1999 <i>RA</i> ₉₂		6 20.4 298°88	0°6/20.4	18	
5 21	18 18.71	-25 3.0	2.274	3.163	10.3	19.9	5 21	18 20.49	-22 4.5	1.652	2.551	13.0	19.5
5 31	18 12.97	-25 24.1	2.200	3.157	7.3	19.7	5 31	18 14.78	-22 2.0	1.569	2.530	9.3	19.2
6 10	18 5.58	-25 44.3	2.151	3.151	3.9	19.5	6 10	18 6.77	-22 0.2	1.508	2.509	5.0	18.9
6 20	17 57.20	-26 1.8	2.129	3.145	0.9	19.3	6 20	17 57.28	-21 58.0	1.472	2.488	0.6	18.5
6 30	17 48.69	-26 15.6	2.135	3.139	3.6	19.5	6 30	17 47.45	-21 55.3	1.463	2.468	4.7	18.8
7 10	17 40.95	-26 25.5	2.169	3.133	7.1	19.7	7 10	17 38.56	-21 52.4	1.479	2.447	9.3	19.0
7 20	17 34.69	-26 32.2	2.227	3.127	10.3	19.9	7 20	17 31.66	-21 50.5	1.518	2.427	13.6	19.2
7 30	17 30.49	-26 36.8	2.308	3.121	13.0	20.0	7 30	17 27.50	-21 50.8	1.576	2.407	17.2	19.4
15565	Benjaminstele		6 20.4 309°14	0°0/20.4	18		234928	2002 <i>UB</i> ₁₁		6 20.4 189°50	3°6/20.4	17	
5 21	18 19.75	-23 33.6	1.840	2.736	12.1	18.6	5 21	18 27.41	-30 7.2	1.391	2.286	15.2	20.9
5 31	18 13.95	-23 33.7	1.767	2.728	8.5	18.4	5 31	18 19.97	-30 44.4	1.329	2.286	11.1	20.6
6 10	18 6.18	-23 33.0	1.718	2.719	4.5	18.1	6 10	18 9.58	-31 15.0	1.289	2.285	6.6	20.3
6 20	17 57.23	-23 30.6	1.695	2.711	0.2	17.8	6 20	17 57.39	-31 34.0	1.274	2.284	3.6	20.2
6 30	17 48.14	-23 26.1	1.699	2.703	4.2	18.1	6 30	17 45.05	-31 38.8	1.284	2.283	6.3	20.3
7 10	17 40.01	-23 20.1	1.728	2.696	8.3	18.3	7 10	17 34.23	-31 30.4	1.318	2.281	10.8	20.6
7 20	17 33.71	-23 13.9	1.782	2.688	12.0	18.5	7 20	17 26.20	-31 12.7	1.374	2.279	15.0	20.8
7 30	17 29.86	-23 8.8	1.856	2.681	15.2	18.7	7 30	17 21.73	-30 50.5	1.449	2.277	18.6	21.0
389552	2010 <i>RA</i> ₈₁		6 20.4 275°57	15°8/21.5	17		316222	2010 <i>NG</i> ₄₄		6 20.4 293°87	3°8/20.8	18	
5 21	18 37.78	-51 45.7	1.057	1.911	22.0	20.7	5 21	18 18.56	-11 2.5	2.157	3.032	11.4	20.8
5 31	18 29.47	-53 3.0	0.999	1.902	19.3	20.5	5 31	18 12.97	-11 14.5	2.065	3.008	8.6	20.6
6 10	18 15.40	-53 47.1	0.958	1.892	17.0	20.3	6 10	18 5.66	-11 36.5	1.998	2.984	5.7	20.3
6 20	17 57.62	-53 42.9	0.934	1.882	15.8	20.2	6 20	17 57.23	-12 8.7	1.957	2.960	3.9	20.2
6 30	17 39.63	-52 43.2	0.929	1.873	16.5	20.2	6 30	17 48.49	-12 50.3	1.943	2.936	5.3	20.2
7 10	17 25.03	-50 54.6	0.943	1.863	18.7	20.3	7 10	17 40.34	-13 39.8	1.957	2.912	8.4	20.4
7 20	17 15.98	-48 33.2	0.974	1.854	21.8	20.4	7 20	17 33.57	-14 35.0	1.995	2.888	11.6	20.5
7 30	17 13.10	-45 56.9	1.020	1.844	25.0	20.6	7 30	17 28.82	-15 34.1	2.055	2.864	14.5	20.7
75666	2000 <i>AG</i> ₈₅		6 20.4 167°64	1°0/20.4	17		510839	2013 <i>CW</i> ₃₆		6 20.4 124°42	5°4/20.8	18	
5 21	18 23.29	-20 39.0	1.801	2.691	12.6	19.9	5 21	18 17.56	-5 1.0	2.594	3.444	10.5	21.9
5 31	18 16.35	-20 41.7	1.737	2.694	8.9	19.7	5 31	18 11.77	-4 44.9	2.538	3.456	8.3	21.8
6 10	18 7.39	-20 46.1	1.697	2.697	4.7	19.4	6 10	18 4.80	-4 39.6	2.506	3.468	6.3	21.7
6 20	17 57.28	-20 51.3	1.684	2.699	1.0	19.1	6 20	17 57.19	-4 46.0	2.502	3.479	5.4	21.6
6 30	17 47.13	-20 56.8	1.698	2.701	4.4	19.4	6 30	17 49.60	-5 4.3	2.524	3.491	6.1	21.7
7 10	17 38.04	-21 2.5	1.738	2.703	8.5	19.6	7 10	17 42.70	-5 33.4	2.573	3.501	7.9	21.8
7 20	17 30.90	-21 9.2	1.803	2.704	12.2	19.9	7 20	17 37.00	-6 11.6	2.648	3.512	10.1	22.0
7 30	17 26.31	-21 17.5	1.889	2.705	15.4	20.1	7 30	17 32.91	-6 56.6	2.744	3.522	12.0	22.2
509606	2008 <i>ED</i> ₇₆		6 20.4 66°36	7°9/20.7	18		515972	2015 <i>RM</i> ₁₁₈		6 20.4 277°90	4°0/20.3	18	
5 21	18 16.97	-0 10.6	2.167	3.007	12.7	21.5	5 21	18 21.26	-35 18.0	2.440	3.312	10.4	21.2
5 31	18 11.53	+0 25.7	2.116	3.018	10.5	21.4	5 31	18 14.90	-35 48.4	2.353	3.293	7.8	21.0
6 10	18 4.72	+0 46.1	2.087	3.028	8.7	21.3	6 10	18 6.67	-36 11.3	2.291	3.273	5.4	20.8
6 20	17 57.17	+0 48.4	2.083	3.039	7.9	21.3	6 20	17 57.27	-36 23.6	2.255	3.254	4.0	20.7
6 30	17 49.65	+0 32.2	2.105	3.049	8.5	21.3	6 30	17 47.64	-36 23.8	2.248	3.234	5.3	20.7
7 10	17 42.93	-0 1.2	2.151	3.060	10.1	21.4	7 10	17 38.75	-36 12.2	2.267	3.214	7.9	20.9
7 20	17 37.61	-0 48.9	2.219	3.071	12.2	21.6	7 20	17 31.48	-35 51.1	2.311	3.194	10.6	21.0
7 30	17 34.12	-1 47.5	2.308	3.082	14.2	21.8	7 30	17 26.44	-35 23.6	2.376	3.173	13.2	21.2
132506	2002 <i>JF</i> ₃₇		6 20.4 4°60	4°6/21.6	17		276516	2003 <i>QS</i> ₁₀₆		6 20.4 314°48	8°3/19.9	18	
5 21	18 17.79	-9 57.9	1.183	2.085	16.8	18.2	5 21	18 17.64	-5 55.6	1.508	2.387	15.2	19.7
5 31	18 13.16	-10 52.7	1.128	2.085	12.5	17.9	5 31	18 12.86	-5 9.2	1.423	2.359	12.2	19.5
6 10	18 5.98	-12 8.2	1.092	2.085	8.0	17.6	6 10	18 5.82	-4 37.2	1.359	2.330	9.5	19.2
6 20	17 57.23	-13 41.8	1.079	2.088	4.7	17.5	6 20	17 57.25	-4 24.1	1.317	2.302	8.3	19.1
6 30	17 48.28	-15 27.9	1.090	2.092	6.6	17.6	6 30	17 48.24	-4 32.6	1.299	2.274	9.6	19.1
7 10	17 40.59	-17 19.4	1.125	2.097	11.1	17.9	7 10	17 40.03	-5 2.7	1.304	2.246	12.8	19.2
7 20	17 35.32	-19 9.6	1.181	2.104	15.5	18.1	7 20	17 33.70	-5 52.1	1.329	2.220	16.4	19.3
7 30	17 33.20	-20 53.8	1.256	2.113	19.3	18.4	7 30	17 30.06	-6 56.7	1.372	2.194	19.8	19.5
350968	2003 <i>CH</i> ₁₄		6 20.4 103°90	1°4/20.5	18		35207	1994 <i>PN</i> ₃₆		6 20.4 183°92	4°2/20.5	18	
5 21	18 20.72	-27 58.4	2.147	3.034	11.0	21.4	5 21	18 17.67	-10 13.3	2.375	3.246	10.7	19.5
5 31	18 14.32	-27 54.0	2.084	3.039	7.8	21.2	5 31	18 12.03	-10 0.7	2.308	3.246	8.1	19.3
6 10	18 6.24	-27 45.0	2.045	3.044	4.2	21.0	6 10	18 5.01	-9 56.4	2.265	3.246	5.5	19.2
6 20	17 57.23	-27 30.4	2.034	3.048	1.4	20.7	6 20	17 57.21	-10 1.1	2.248	3.245	4.2	19.1
6 30	17 48.26	-27 10.4	2.050	3.053	3.8	20.9	6 30	17 49.35	-10 14.9	2.259	3.245	5.3	19.2
7 10	17 40.27	-26 46.4	2.093	3.057	7.3	21.2	7 10	17 42.19	-10 37.2	2.298	3.244	7.8	19.3
7 20	17 33.97	-26 20.5	2.162	3.062	10.5	21.4	7 20	17 36.33	-11 6.7	2.361	3.243	10.4	19.5
7 30	17 29.89	-25 54.9	2.252	3.066	13.3	21.6	7 30	17 32.25	-11 41.9	2.446	3.243	12.8	19.7
306878	2001 <i>TN</i> ₁₄		6 20.4 271°71	3°2/20.5	17		343475	2010 <i>EQ</i> ₇₄					

EPHEMERIDES

6 20.4

6 20.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
91850	1999 UN ₇		6 20.4 186°02	3°3/20.2	18		187435	2005 WD ₅₃		6 20.5 154°53	0°5/20.4	18	
5 21	18 17.50	-13 33.6	2.448	3.325	10.2	19.9	5 21	18 18.96	-24 40.0	2.419	3.306	9.9	21.1
5 31	18 11.87	-13 7.6	2.380	3.325	7.5	19.7	5 31	18 13.01	-24 50.6	2.352	3.307	7.0	20.9
6 10	18 4.91	-12 47.0	2.337	3.325	4.8	19.6	6 10	18 5.56	-25 0.0	2.310	3.309	3.7	20.7
6 20	17 57.21	-12 32.5	2.321	3.324	3.3	19.5	6 20	17 57.27	-25 7.0	2.295	3.311	0.5	20.4
6 30	17 49.47	-12 24.9	2.333	3.324	4.7	19.6	6 30	17 48.94	-25 11.1	2.309	3.312	3.4	20.6
7 10	17 42.44	-12 24.5	2.372	3.323	7.4	19.7	7 10	17 41.37	-25 12.4	2.350	3.314	6.7	20.9
7 20	17 36.69	-12 30.8	2.437	3.322	10.0	19.9	7 20	17 35.23	-25 11.7	2.417	3.315	9.6	21.1
7 30	17 32.69	-12 43.2	2.523	3.321	12.4	20.1	7 30	17 31.01	-25 10.3	2.506	3.316	12.2	21.2
191668	2004 QF ₄		6 20.4 265°78	1°4/20.5	18		477648	2010 MX ₈₉		6 20.5 294°33	2°9/20.9	18	
5 21	18 21.70	-19 13.4	1.955	2.842	11.8	20.8	5 21	18 21.81	-33 11.8	2.165	3.045	11.2	20.9
5 31	18 15.37	-19 19.8	1.865	2.821	8.5	20.6	5 31	18 15.24	-32 57.5	2.087	3.035	8.2	20.7
6 10	18 7.00	-19 29.6	1.800	2.799	4.7	20.3	6 10	18 6.81	-32 34.0	2.033	3.025	5.0	20.5
6 20	17 57.31	-19 41.9	1.762	2.776	1.4	20.0	6 20	17 57.34	-31 59.9	2.006	3.015	2.9	20.3
6 30	17 47.27	-19 56.0	1.751	2.753	4.4	20.2	6 30	17 47.84	-31 15.6	2.007	3.005	4.5	20.4
7 10	17 37.98	-20 11.5	1.767	2.730	8.5	20.4	7 10	17 39.34	-30 23.6	2.035	2.995	7.8	20.6
7 20	17 30.37	-20 28.3	1.807	2.706	12.3	20.6	7 20	17 32.64	-29 27.5	2.088	2.986	11.0	20.8
7 30	17 25.16	-20 46.8	1.868	2.682	15.6	20.8	7 30	17 28.30	-28 31.1	2.163	2.976	13.8	20.9
40439	1999 RF ₃₄		6 20.4 221°88	0°2/20.4	18		499291	2009 WD ₁		6 20.5 168°80	0°5/20.5	17	
5 21	18 18.56	-22 44.1	2.752	3.634	9.0	19.7	5 21	18 22.42	-21 9.0	2.181	3.064	11.0	22.3
5 31	18 12.61	-22 45.8	2.672	3.626	6.3	19.5	5 31	18 15.51	-21 20.5	2.114	3.068	7.7	22.1
6 10	18 5.32	-22 47.2	2.618	3.618	3.3	19.3	6 10	18 6.91	-21 33.3	2.073	3.072	4.1	21.9
6 20	17 57.24	-22 47.6	2.593	3.609	0.2	19.0	6 20	17 57.35	-21 46.1	2.059	3.075	0.6	21.6
6 30	17 49.07	-22 47.0	2.596	3.600	3.1	19.3	6 30	17 47.73	-21 58.2	2.074	3.078	3.7	21.9
7 10	17 41.51	-22 45.5	2.629	3.590	6.1	19.5	7 10	17 38.98	-22 9.4	2.117	3.080	7.4	22.1
7 20	17 35.19	-22 43.6	2.687	3.581	8.9	19.6	7 20	17 31.85	-22 20.0	2.186	3.081	10.6	22.3
7 30	17 30.55	-22 42.3	2.768	3.571	11.4	19.8	7 30	17 26.89	-22 30.7	2.276	3.082	13.4	22.5
144263	2004 CR ₉₄		6 20.4 172°68	2°4/20.3	18		311133	2004 RY ₈₆		6 20.5 272°80	0°2/20.4	18	
5 21	18 19.29	-17 16.2	2.059	2.946	11.4	20.2	5 21	18 18.83	-23 46.1	2.339	3.227	10.1	20.4
5 31	18 13.35	-16 56.6	1.992	2.946	8.1	20.0	5 31	18 12.98	-23 31.0	2.262	3.219	7.1	20.2
6 10	18 5.77	-16 40.6	1.951	2.947	4.7	19.8	6 10	18 5.58	-23 14.3	2.210	3.211	3.8	20.0
6 20	17 57.27	-16 28.7	1.936	2.947	2.4	19.6	6 20	17 57.29	-22 55.7	2.186	3.202	0.2	19.7
6 30	17 48.74	-16 21.3	1.948	2.947	4.5	19.8	6 30	17 48.94	-22 35.7	2.190	3.194	3.5	20.0
7 10	17 41.08	-16 18.8	1.987	2.947	7.9	20.0	7 10	17 41.35	-22 15.3	2.221	3.185	6.9	20.2
7 20	17 35.00	-16 21.4	2.051	2.947	11.2	20.2	7 20	17 35.21	-21 55.9	2.278	3.177	10.1	20.3
7 30	17 31.02	-16 28.9	2.135	2.947	14.0	20.4	7 30	17 31.04	-21 38.8	2.357	3.168	12.8	20.5
163380	2002 PN ₈₆		6 20.4 244°88	3°6/20.2	18		513289	2007 AC ₁₅		6 20.5 234°98	2°5/20.6	18	
5 21	18 19.53	-13 5.2	2.307	3.182	10.8	20.6	5 21	18 18.26	-14 48.8	2.319	3.200	10.5	21.3
5 31	18 13.48	-12 41.1	2.223	3.167	8.0	20.4	5 31	18 12.55	-14 57.3	2.247	3.196	7.6	21.1
6 10	18 5.85	-12 22.7	2.164	3.151	5.2	20.2	6 10	18 5.36	-15 11.7	2.200	3.193	4.6	20.9
6 20	17 57.28	-12 11.0	2.132	3.135	3.6	20.1	6 20	17 57.29	-15 31.9	2.180	3.189	2.5	20.8
6 30	17 48.54	-12 6.8	2.128	3.118	5.1	20.1	6 30	17 49.12	-15 57.0	2.188	3.186	4.2	20.9
7 10	17 40.46	-12 10.3	2.151	3.101	8.0	20.3	7 10	17 41.64	-16 26.2	2.223	3.182	7.3	21.1
7 20	17 33.75	-12 21.3	2.199	3.084	11.0	20.4	7 20	17 35.52	-16 58.5	2.284	3.179	10.3	21.3
7 30	17 28.96	-12 38.9	2.269	3.066	13.7	20.6	7 30	17 31.28	-17 33.0	2.367	3.175	12.9	21.4
245637	2005 YZ ₈		6 20.4 208°10	0°4/20.5	17		415995	2002 AK ₆₇		6 20.5 104°92	5°2/21.2	17	
5 21	18 25.61	-21 49.1	1.596	2.488	13.8	21.5	5 21	18 28.05	-38 28.9	1.912	2.779	13.0	21.0
5 31	18 18.34	-22 0.2	1.526	2.484	9.8	21.2	5 31	18 19.64	-38 37.7	1.863	2.797	9.9	20.8
6 10	18 8.62	-22 12.6	1.478	2.478	5.2	20.9	6 10	18 9.07	-38 32.4	1.837	2.814	6.9	20.7
6 20	17 57.40	-22 24.6	1.456	2.472	0.5	20.6	6 20	17 57.45	-38 10.2	1.836	2.831	5.2	20.6
6 30	17 45.98	-22 34.8	1.461	2.466	4.8	20.9	6 30	17 46.10	-37 31.3	1.863	2.847	6.3	20.7
7 10	17 35.71	-22 43.2	1.493	2.458	9.5	21.1	7 10	17 36.28	-36 39.1	1.916	2.864	9.0	20.9
7 20	17 27.69	-22 50.8	1.547	2.450	13.7	21.4	7 20	17 28.83	-35 38.9	1.994	2.879	11.9	21.1
7 30	17 22.62	-22 58.9	1.621	2.442	17.3	21.6	7 30	17 24.26	-34 36.0	2.092	2.895	14.5	21.3
138518	2000 NB ₇		6 20.4 245°14	3°0/20.5	18		482228	2011 BH ₁₀		6 20.5 260°02	11°8/20.3	17	
5 21	18 18.46	-14 28.9	2.205	3.086	10.9	20.4	5 21	18 45.76	-43 26.9	1.104	1.969	20.5	20.6
5 31	18 12.74	-14 19.7	2.131	3.080	8.0	20.2	5 31	18 35.64	-44 33.3	1.012	1.937	17.0	20.3
6 10	18 5.46	-14 16.3	2.083	3.074	4.9	20.0	6 10	18 19.31	-45 18.7	0.938	1.903	13.5	19.9
6 20	17 57.26	-14 19.1	2.061	3.068	3.0	19.9	6 20	17 57.96	-45 24.9	0.885	1.866	11.8	19.7
6 30	17 48.97	-14 28.1	2.066	3.062	4.7	20.0	6 30	17 34.69	-44 38.3	0.854	1.827	13.6	19.6
7 10	17 41.40	-14 43.0	2.099	3.056	7.8	20.2	7 10	17 13.50	-43 0.1	0.846	1.786	18.1	19.7
7 20	17 35.27	-15 3.1	2.156	3.050	10.8	20.4	7 20	16 57.54	-40 45.9	0.856	1.742	23.5	19.9
7 30	17 31.10	-15 27.7	2.235	3.043	13.5	20.5	7 30	16 48.34	-38 17.3	0.882	1.697	28.6	20.0
176466	2001 XE ₁₂₂		6 20.4 214°19	0°3/20.4	18		320389	2007 UK ₄₇		6 20.5 243°13	0°2/20.4	17	
5 21	18 19.45	-22 12.5	2.373	3.259	10.1	21.1	5 21	18 21.12	-21 54.7	2.101	2.989	11.1	20.9
5 31	18 13.38	-22 17.0	2.299	3.255	7.1	20.9	5 31	18 14.82	-22 34.0	2.026	2.983	7.9	20.7
6 10	18 5.78	-22 21.8	2.251	3.251	3.7	20.7	6 10	18 6.66	-23 15.6	1.976	2.976	4.1	20.4
6 20	17 57.28	-22 26.1	2.230	3.246	0.4	20.4	6 20	17 57.36	-23 57.1	1.954	2.970	0.3	20.1
6 30	17 48.69	-22 29.5	2.238	3.241	3.4	20.6	6 30	17 47.84	-24 36.4	1.960	2.963	3.8	20.4
7 10	17 40.84	-22 32.1	2.273	3.236	6.9	20.8	7 10	17 39.11	-25 12.1	1.993	2.957	7.6	20.6
7 20	17 34.42	-22 34.5	2.334	3.231	10.0	21.0	7 20	17 31.98	-25 43.9	2.051	2.950	11.1	20.8
7 30	17 29.95	-22 37.5	2.417	3.225	12.6	21.2	7 30	17 27.10	-26 12.4	2.131	2.943	14.0	21.0
340233	2006 BM ₈₀		6 20.5 27°32	1°2/20.5	17		273973	2007 LA ₉		6 20.5 93°53	3°8/20.1	17	

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
398950	2013 <i>DJ</i> ₆		6 20.5 206°27'	3°1'/20.6 18			106065	2000 <i>ST</i> ₃₂₄		6 20.5 98°00'	1°6'/20.5 18		
5 21	18 17.63	-12 48.7	2.478	3.353	10.1	21.2	5 21	18 20.30	-27 41.3	2.197	3.084	10.7	20.2
5 31	18 12.02	-12 47.9	2.406	3.351	7.5	21.1	5 31	18 14.09	-27 57.1	2.134	3.089	7.6	20.0
6 10	18 5.05	-12 53.7	2.360	3.348	4.8	20.9	6 10	18 6.20	-28 9.5	2.096	3.094	4.2	19.8
6 20	17 57.30	-13 6.2	2.341	3.346	3.1	20.8	6 20	17 57.36	-28 16.6	2.085	3.099	1.6	19.7
6 30	17 49.47	-13 25.2	2.351	3.344	4.5	20.9	6 30	17 48.49	-28 17.8	2.102	3.103	3.9	19.8
7 10	17 42.29	-13 50.0	2.387	3.341	7.2	21.0	7 10	17 40.54	-28 13.5	2.146	3.108	7.3	20.1
7 20	17 36.37	-14 19.6	2.449	3.338	9.9	21.2	7 20	17 34.22	-28 5.2	2.214	3.113	10.4	20.3
7 30	17 32.18	-14 52.8	2.534	3.335	12.3	21.4	7 30	17 30.07	-27 54.9	2.305	3.117	13.0	20.4
40360	1999 <i>NE</i> ₂₁		6 20.5 295°56'	3°8'/20.5 18 R			37175	2000 <i>WJ</i> ₄₀		6 20.5 92°06'	2°3'/20.6 18		
5 21	18 24.11	-31 2.4	1.364	2.263	15.2	18.9	5 21	18 18.30	-15 33.9	2.323	3.205	10.5	18.6
5 31	18 17.92	-31 25.6	1.287	2.245	11.2	18.6	5 31	18 12.49	-15 36.1	2.265	3.215	7.5	18.5
6 10	18 8.70	-31 41.1	1.231	2.227	6.8	18.3	6 10	18 5.28	-15 43.4	2.232	3.226	4.4	18.3
6 20	17 57.46	-31 44.4	1.199	2.210	3.8	18.1	6 20	17 57.32	-15 55.5	2.226	3.236	2.4	18.2
6 30	17 45.81	-31 33.1	1.192	2.192	6.5	18.2	6 30	17 49.37	-16 12.0	2.249	3.247	4.1	18.3
7 10	17 35.49	-31 8.6	1.208	2.174	11.1	18.4	7 10	17 42.19	-16 32.2	2.298	3.257	7.1	18.5
7 20	17 27.88	-30 35.2	1.245	2.157	15.7	18.6	7 20	17 36.40	-16 55.5	2.373	3.267	9.9	18.7
7 30	17 23.89	-29 58.2	1.301	2.140	19.7	18.8	7 30	17 32.46	-17 21.3	2.470	3.278	12.4	18.9
490198	2008 <i>UC</i> ₃₃₁		6 20.5 230°40'	2°4'/20.3 18			112457	2002 <i>OT</i> ₁₀		6 20.5 349°64'	1°3'/20.5 18		
5 21	18 20.99	-16 27.2	2.491	3.366	10.1	22.1	5 21	18 18.29	-19 59.3	1.074	1.994	16.6	18.6
5 31	18 14.42	-16 3.8	2.404	3.351	7.3	21.9	5 31	18 13.89	-20 13.7	1.015	1.986	11.9	18.3
6 10	18 6.35	-15 43.2	2.343	3.336	4.4	21.7	6 10	18 6.56	-20 34.0	0.976	1.979	6.4	18.0
6 20	17 57.36	-15 26.0	2.310	3.319	2.4	21.5	6 20	17 57.40	-20 58.7	0.958	1.973	1.3	17.7
6 30	17 48.22	-15 12.9	2.306	3.302	4.2	21.6	6 30	17 47.99	-21 25.5	0.962	1.969	5.8	18.0
7 10	17 39.73	-15 4.5	2.331	3.284	7.3	21.8	7 10	17 40.03	-21 53.1	0.988	1.966	11.5	18.2
7 20	17 32.57	-15 1.2	2.381	3.266	10.3	21.9	7 20	17 34.80	-22 20.8	1.034	1.964	16.5	18.5
7 30	17 27.26	-15 3.1	2.454	3.246	12.9	22.1	7 30	17 33.14	-22 48.4	1.097	1.964	20.7	18.8
92472	2000 <i>KR</i> ₇₀		6 20.5 41°70'	0°1'/20.5 17			423859	2006 <i>QU</i> ₁₆₄		6 20.5 269°08'	0°9'/20.4 18		
5 21	18 24.09	-25 27.3	1.087	2.001	17.0	19.2	5 21	18 24.12	-22 25.9	1.683	2.575	13.2	21.4
5 31	18 17.64	-24 54.1	1.043	2.010	12.0	18.9	5 31	18 17.38	-22 2.4	1.593	2.552	9.4	21.1
6 10	18 8.29	-24 16.1	1.018	2.021	6.3	18.7	6 10	18 8.22	-21 37.1	1.527	2.528	5.1	20.8
6 20	17 57.43	-23 33.6	1.016	2.032	0.3	18.2	6 20	17 57.49	-21 9.8	1.487	2.503	0.9	20.4
6 30	17 46.83	-22 49.0	1.037	2.043	5.7	18.7	6 30	17 46.40	-20 41.3	1.474	2.478	4.8	20.6
7 10	17 38.13	-22 6.1	1.081	2.055	11.2	19.0	7 10	17 36.26	-20 13.5	1.487	2.452	9.6	20.8
7 20	17 32.42	-21 28.7	1.145	2.068	15.9	19.3	7 20	17 28.17	-19 48.7	1.523	2.426	13.9	21.0
7 30	17 30.23	-20 59.1	1.227	2.081	19.8	19.6	7 30	17 22.92	-19 29.2	1.580	2.400	17.7	21.2
105754	2000 <i>SM</i> ₉₈		6 20.5 271°12'	4°6'/20.5 18			128553	2004 <i>PF</i> ₇₇		6 20.5 11°46'	3°2'/20.3 18		
5 21	18 22.42	-36 37.5	2.207	3.078	11.3	19.5	5 21	18 19.71	-17 27.9	1.357	2.262	14.9	19.4
5 31	18 15.82	-37 2.8	2.131	3.069	8.6	19.3	5 31	18 14.25	-16 58.5	1.301	2.263	10.7	19.1
6 10	18 7.21	-37 18.4	2.079	3.059	6.0	19.1	6 10	18 6.48	-16 34.1	1.267	2.265	6.2	18.9
6 20	17 57.40	-37 21.2	2.053	3.049	4.6	19.0	6 20	17 57.41	-16 15.9	1.256	2.268	3.2	18.7
6 30	17 47.45	-37 9.8	2.054	3.039	5.8	19.0	6 30	17 48.33	-16 5.2	1.270	2.272	5.9	18.9
7 10	17 38.47	-36 45.4	2.082	3.029	8.4	19.2	7 10	17 40.55	-16 2.5	1.308	2.276	10.4	19.1
7 20	17 31.34	-36 11.0	2.134	3.019	11.3	19.3	7 20	17 35.02	-16 7.8	1.367	2.280	14.5	19.4
7 30	17 26.69	-35 30.8	2.207	3.009	13.9	19.5	7 30	17 32.38	-16 20.2	1.445	2.286	18.0	19.6
268083	2004 <i>RB</i> ₁₄₇		6 20.5 353°86'	7°6'/20.5 17			308004	2004 <i>RT</i> ₁₁₀		6 20.5 202°70'	8°2'/21.5 17		
5 21	18 22.44	-38 12.1	1.289	2.184	16.2	19.5	5 21	18 36.47	-47 41.0	2.137	2.959	13.5	20.8
5 31	18 16.87	-39 0.9	1.231	2.179	12.7	19.3	5 31	18 25.96	-48 5.6	2.062	2.953	11.3	20.6
6 10	18 8.12	-39 34.5	1.193	2.175	9.3	19.1	6 10	18 12.62	-48 10.0	2.010	2.947	9.2	20.5
6 20	17 57.44	-39 46.3	1.177	2.172	7.6	19.0	6 20	17 57.69	-47 48.8	1.983	2.939	8.2	20.4
6 30	17 46.61	-39 33.4	1.184	2.169	9.0	19.1	6 30	17 42.85	-47 0.4	1.983	2.930	8.8	20.4
7 10	17 37.48	-38 58.4	1.213	2.168	12.3	19.2	7 10	17 29.70	-45 48.2	2.010	2.921	10.7	20.5
7 20	17 31.39	-38 7.4	1.263	2.168	16.0	19.5	7 20	17 19.42	-44 19.3	2.060	2.910	13.1	20.7
7 30	17 29.08	-37 7.9	1.330	2.169	19.4	19.7	7 30	17 12.63	-42 42.1	2.133	2.898	15.4	20.8
395643	2011 <i>WY</i> ₃₃		6 20.5 270°09'	1°9'/20.3 18			193270	2000 <i>SL</i> ₁₈₃		6 20.5 310°56'	1°3'/20.5 18		
5 21	18 20.83	-27 18.0	2.192	3.078	10.8	21.1	5 21	18 21.12	-26 25.0	1.440	2.344	14.2	20.3
5 31	18 14.66	-27 57.1	2.112	3.067	7.7	20.9	5 31	18 15.63	-26 25.9	1.356	2.319	10.2	20.0
6 10	18 6.61	-28 34.5	2.058	3.055	4.3	20.7	6 10	18 7.45	-26 23.0	1.294	2.295	5.6	19.7
6 20	17 57.38	-29 7.2	2.030	3.043	1.9	20.5	6 20	17 57.47	-26 14.3	1.256	2.271	1.3	19.4
6 30	17 47.90	-29 33.4	2.031	3.031	4.2	20.6	6 30	17 47.06	-25 58.8	1.243	2.248	5.2	19.6
7 10	17 39.18	-29 52.2	2.059	3.019	7.7	20.8	7 10	17 37.74	-25 38.1	1.254	2.225	10.3	19.8
7 20	17 32.07	-30 4.5	2.112	3.007	10.9	21.0	7 20	17 30.77	-25 14.8	1.286	2.203	15.0	20.0
7 30	17 27.21	-30 12.0	2.186	2.995	13.8	21.2	7 30	17 27.01	-24 52.2	1.338	2.181	19.1	20.2
34406	2000 <i>RD</i> ₉₂		6 20.5 8°43'	2°2'/20.6 18			475296	2005 <i>XT</i> ₃₃		6 20.5 235°42'	0°6'/20.4 18		
5 21	18 20.41	-27 46.4	0.996	1.917	17.5	17.5	5 21	18 19.64	-24 11.1	2.863	3.742	8.8	21.9
5 31	18 15.48	-27 50.8	0.947	1.918	12.5	17.2	5 31	18 13.46	-24 39.5	2.776	3.729	6.2	21.8
6 10	18 7.37	-27 48.9	0.917	1.920	6.9	16.9	6 10	18 5.87	-25 7.8	2.716	3.715	3.3	21.5
6 20	17 57.41	-27 38.0	0.908	1.923	2.2	16.7	6 20	17 57.40	-25 34.4	2.685	3.701	0.6	21.3
6 30	17 47.46	-27 17.7	0.921	1.927	6.2	16.9	6 30	17 48.74	-25 58.2	2.684	3.686	3.1	21.5
7 10	17 39.37	-26 50.9	0.955	1.932	11.8	17.2	7 10	17 40.62	-26 18.5	2.711	3.671	6.1	21.7
7 20	17 34.41	-26 21.7	1.008	1.939	16.7	17.5	7 20	17 33.67	-26 35.5	2.765	3.656	8.8	21.8
7 30	17 33.24	-25 54.0	1.078	1.947	20.9	17.8	7 30	17 28.42	-26 50.0	2.842	3.640	11.2	22.0
387056	2012 <i>TU</i> ₃₁		6 20.5 254°54'	3°6'/20.4 17									

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
434220	2003 <i>SP</i> ₉₅	6 20.5 251°38		1°9/20.3 18			177335	2003 <i>YZ</i> ₈₇	6 20.5 235°14		0°7/20.4 18		
5 21	18 20.77	-19 0.2	2.076	2.962	11.3	21.1	5 21	18 24.58	-24 12.5	1.804	2.693	12.6	20.8
5 31	18 14.53	-18 38.9	1.994	2.949	8.1	20.9	5 31	18 17.59	-24 35.5	1.724	2.681	9.0	20.5
6 10	18 6.52	-18 19.3	1.937	2.935	4.5	20.7	6 10	18 8.30	-24 58.4	1.668	2.668	4.8	20.3
6 20	17 57.43	-18 1.8	1.907	2.920	1.9	20.5	6 20	17 57.55	-25 18.4	1.639	2.655	0.8	19.9
6 30	17 48.18	-17 47.0	1.905	2.906	4.4	20.6	6 30	17 46.50	-25 34.0	1.638	2.641	4.5	20.2
7 10	17 39.73	-17 35.8	1.930	2.891	8.0	20.8	7 10	17 36.40	-25 44.8	1.662	2.627	8.8	20.4
7 20	17 32.87	-17 28.9	1.980	2.876	11.5	21.0	7 20	17 28.28	-25 51.7	1.712	2.612	12.8	20.6
7 30	17 28.21	-17 26.9	2.050	2.860	14.5	21.2	7 30	17 22.90	-25 56.7	1.781	2.596	16.2	20.8
6583	Destinn	6 20.5 191°74		2°7/20.6 18			425945	2011 <i>GX</i> ₇₅	6 20.5 94°57		2°1/20.6 17		
5 21	18 23.74	-31 11.8	2.047	2.929	11.6	17.4	5 21	18 21.82	-17 9.5	1.745	2.635	12.9	21.1
5 31	18 16.68	-31 19.0	1.978	2.928	8.4	17.2	5 31	18 15.33	-17 18.6	1.691	2.646	9.2	20.9
6 10	18 7.64	-31 19.0	1.933	2.927	5.0	17.0	6 10	18 6.94	-17 33.2	1.660	2.657	5.2	20.7
6 20	17 57.48	-31 9.8	1.915	2.925	2.7	16.8	6 20	17 57.49	-17 52.3	1.655	2.668	2.1	20.5
6 30	17 47.29	-30 51.0	1.925	2.923	4.6	17.0	6 30	17 48.05	-18 14.9	1.677	2.679	4.7	20.7
7 10	17 38.16	-30 24.1	1.961	2.921	8.0	17.2	7 10	17 39.71	-18 40.0	1.726	2.690	8.6	20.9
7 20	17 30.94	-29 52.1	2.022	2.918	11.3	17.4	7 20	17 33.27	-19 7.0	1.798	2.701	12.2	21.2
7 30	17 26.21	-29 18.2	2.105	2.915	14.2	17.5	7 30	17 29.30	-19 35.3	1.891	2.711	15.2	21.4
191660	2004 <i>PL</i> ₁₀₁	6 20.5 279°50		6°1/19.9 18			39555	1992 <i>EY</i> ₃₂	6 20.5 283°44		7°2/20.2 18		
5 21	18 20.51	-9 0.2	1.866	2.739	13.0	20.7	5 21	18 19.04	-5 23.1	1.875	2.739	13.4	19.0
5 31	18 14.59	-8 16.4	1.775	2.712	10.2	20.5	5 31	18 13.49	-4 45.9	1.793	2.719	10.7	18.8
6 10	18 6.67	-7 41.7	1.708	2.685	7.4	20.2	6 10	18 6.06	-4 21.8	1.733	2.698	8.3	18.6
6 20	17 57.45	-7 19.0	1.666	2.657	6.1	20.1	6 20	17 57.45	-4 13.6	1.697	2.678	7.2	18.5
6 30	17 47.88	-7 10.4	1.650	2.629	7.5	20.1	6 30	17 48.57	-4 22.9	1.687	2.657	8.3	18.5
7 10	17 39.00	-7 16.6	1.659	2.600	10.6	20.2	7 10	17 40.42	-4 49.5	1.702	2.636	10.9	18.6
7 20	17 31.74	-7 36.7	1.691	2.571	14.0	20.4	7 20	17 33.85	-5 31.2	1.740	2.616	13.9	18.8
7 30	17 26.81	-8 8.8	1.743	2.542	17.1	20.5	7 30	17 29.51	-6 25.0	1.797	2.595	16.7	18.9
479286	2013 <i>GM</i> ₄₆	6 20.5 204°44		6°4/20.2 18			116756	2004 <i>DV</i> ₇₄	6 20.5 272°79		0°3/20.5 17		
5 21	18 24.47	-43 42.4	2.583	3.426	10.8	21.2	5 21	18 20.08	-22 46.1	2.007	2.899	11.4	20.3
5 31	18 17.22	-44 30.7	2.516	3.423	8.8	21.1	5 31	18 14.10	-22 44.5	1.934	2.893	8.0	20.1
6 10	18 7.97	-45 6.4	2.472	3.420	7.1	21.0	6 10	18 6.32	-22 42.6	1.886	2.887	4.3	19.9
6 20	17 57.52	-45 25.9	2.454	3.417	6.4	20.9	6 20	17 57.46	-22 39.8	1.865	2.881	0.3	19.5
6 30	17 46.92	-45 27.2	2.463	3.414	7.1	20.9	6 30	17 48.51	-22 35.7	1.870	2.875	3.9	19.8
7 10	17 37.28	-45 11.2	2.497	3.411	8.8	21.0	7 10	17 40.43	-22 31.0	1.903	2.869	7.8	20.0
7 20	17 29.48	-44 41.1	2.556	3.407	10.8	21.2	7 20	17 34.04	-22 26.5	1.960	2.863	11.3	20.2
7 30	17 24.15	-44 1.2	2.636	3.403	12.7	21.3	7 30	17 29.91	-22 23.4	2.038	2.857	14.3	20.4
392512	2011 <i>QM</i> ₁₇	6 20.5 275°92		2°6/20.5 18			446079	2013 <i>CV</i> ₁₇₀	6 20.5 215°44		4°2/20.5 18		
5 21	18 21.61	-30 36.3	2.019	2.905	11.6	21.4	5 21	18 17.54	-10 25.9	2.390	3.261	10.6	21.6
5 31	18 15.29	-30 49.0	1.944	2.896	8.4	21.1	5 31	18 12.01	-10 7.1	2.320	3.258	8.0	21.5
6 10	18 6.98	-30 55.5	1.893	2.888	5.0	20.9	6 10	18 5.10	-9 56.2	2.275	3.256	5.5	21.3
6 20	17 57.47	-30 53.6	1.868	2.879	2.6	20.7	6 20	17 57.41	-9 54.0	2.256	3.253	4.2	21.2
6 30	17 47.84	-30 42.6	1.871	2.870	4.6	20.9	6 30	17 49.65	-10 1.1	2.265	3.250	5.3	21.3
7 10	17 39.17	-30 23.4	1.900	2.861	8.1	21.0	7 10	17 42.57	-10 17.0	2.301	3.247	7.8	21.4
7 20	17 32.34	-29 58.5	1.953	2.852	11.5	21.2	7 20	17 36.78	-10 40.6	2.362	3.244	10.4	21.6
7 30	17 27.98	-29 31.0	2.028	2.843	14.5	21.4	7 30	17 32.74	-11 10.6	2.444	3.241	12.8	21.7
422284	2014 <i>SH</i> ₁₅₅	6 20.5 93°51		5°0/20.2 17			290807	2005 <i>VY</i> ₉₃	6 20.5 146°03		4°9/19.9 16		
5 21	18 22.92	-13 53.1	1.364	2.259	15.5	20.9	5 21	18 17.35	-7 38.7	2.740	3.598	9.8	21.2
5 31	18 16.43	-13 10.9	1.311	2.265	11.4	20.7	5 31	18 11.66	-6 55.0	2.679	3.604	7.7	21.1
6 10	18 7.61	-12 37.1	1.279	2.271	7.3	20.4	6 10	18 4.83	-6 19.2	2.643	3.611	5.7	21.0
6 20	17 57.50	-12 14.0	1.272	2.277	5.0	20.3	6 20	17 57.40	-5 53.0	2.635	3.617	4.9	20.9
6 30	17 47.44	-12 3.3	1.289	2.283	7.1	20.5	6 30	17 49.99	-5 37.6	2.654	3.623	5.7	21.0
7 10	17 38.74	-12 5.1	1.330	2.289	11.1	20.7	7 10	17 43.21	-5 32.9	2.701	3.628	7.6	21.1
7 20	17 32.36	-12 18.6	1.392	2.294	15.0	21.0	7 20	17 37.57	-5 38.4	2.772	3.634	9.7	21.3
7 30	17 28.91	-12 41.6	1.473	2.300	18.4	21.2	7 30	17 33.46	-5 52.8	2.865	3.639	11.7	21.4
475009	2005 <i>TV</i> ₁₆₇	6 20.5 264°95		1°6/20.4 18			281563	2008 <i>UC</i> ₈₇	6 20.5 207°80		1°0/20.5 17		
5 21	18 18.57	-19 2.7	2.337	3.223	10.2	21.7	5 21	18 22.09	-25 39.8	1.960	2.850	11.7	21.1
5 31	18 12.85	-18 49.5	2.256	3.210	7.3	21.5	5 31	18 15.58	-25 55.8	1.891	2.847	8.3	20.8
6 10	18 5.59	-18 38.2	2.200	3.198	4.1	21.3	6 10	18 7.12	-26 9.9	1.846	2.845	4.5	20.6
6 20	17 57.41	-18 28.9	2.171	3.185	1.6	21.1	6 20	17 57.51	-26 20.0	1.827	2.842	1.1	20.3
6 30	17 49.11	-18 21.9	2.171	3.172	3.8	21.2	6 30	17 47.79	-26 25.2	1.836	2.839	4.1	20.6
7 10	17 41.50	-18 17.6	2.198	3.159	7.2	21.4	7 10	17 39.03	-26 25.7	1.872	2.836	8.0	20.8
7 20	17 35.27	-18 16.6	2.250	3.146	10.3	21.6	7 20	17 32.09	-26 22.8	1.932	2.833	11.5	21.0
7 30	17 30.95	-18 19.0	2.324	3.133	13.0	21.8	7 30	17 27.57	-26 18.4	2.013	2.829	14.5	21.2
477181	2009 <i>FT</i> ₅₈	6 20.5 84°44		4°8/20.4 17			308434	2005 <i>ST</i> ₁₅₇	6 20.5 179°70		4°4/20.3 18		
5 21	18 18.42	-10 15.3	2.056	2.931	11.9	21.4	5 21	18 22.25	-36 23.0	2.438	3.306	10.5	20.9
5 31	18 12.72	-9 45.9	1.996	2.936	9.0	21.2	5 31	18 15.56	-37 1.0	2.371	3.307	8.0	20.7
6 10	18 5.49	-9 25.5	1.960	2.941	6.3	21.1	6 10	18 7.06	-37 30.4	2.329	3.307	5.6	20.6
6 20	17 57.41	-9 15.5	1.950	2.946	4.8	21.0	6 20	17 57.51	-37 48.3	2.313	3.307	4.4	20.5
6 30	17 49.32	-9 16.6	1.967	2.951	6.1	21.1	6 30	17 47.86	-37 53.0	2.325	3.307	5.5	20.6
7 10	17 42.08	-9 28.5	2.009	2.956	8.7	21.3	7 10	17 39.10	-37 45.2	2.364	3.307	7.8	20.7
7 20	17 36.35	-9 50.0	2.076	2.961	11.6	21.5	7 20	17 32.02	-37 27.4	2.428	3.306	10.3	20.9
7 30	17 32.63	-10 19.1	2.164	2.966	14.1	21.6	7 30	17 27.19	-37 2.7	2.514	3.306	12.6	21.0
232939	2005 <i>BB</i> ₃₁	6 20.5 38°20		0°9/20.5 17			523816	2009 <i>ST</i> ₁₀₃	6 20.5 134°92		3°2/20.3 18		
5 21	18 20.37												

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
333472	2004 <i>RC</i> ₁₈₁		6 20.5 307°75	2°0/20.4	17		35662	1998 <i>QW</i> ₄₀		6 20.5 356°58	2°0/20.4	18	
5 21	18 20.24	-19 57.9	1.482	2.384	14.0	21.0	5 21	18 17.00	-21 27.6	0.850	1.782	18.5	17.9
5 31	18 14.87	-19 36.9	1.397	2.360	10.1	20.7	5 31	18 13.37	-20 55.6	0.799	1.776	13.2	17.5
6 10	18 7.01	-19 17.5	1.335	2.336	5.6	20.4	6 10	18 6.45	-20 24.6	0.766	1.771	7.2	17.2
6 20	17 57.52	-19 0.0	1.297	2.312	2.0	20.1	6 20	17 57.55	-19 56.0	0.753	1.768	2.0	16.9
6 30	17 47.64	-18 45.4	1.284	2.288	5.4	20.3	6 30	17 48.54	-19 31.9	0.760	1.767	6.7	17.1
7 10	17 38.73	-18 34.7	1.296	2.265	10.3	20.5	7 10	17 41.34	-19 14.5	0.786	1.768	12.8	17.5
7 20	17 31.94	-18 29.3	1.329	2.242	14.8	20.7	7 20	17 37.29	-19 5.5	0.830	1.770	18.3	17.8
7 30	17 28.12	-18 29.9	1.381	2.220	18.8	20.9	7 30	17 37.14	-19 4.9	0.889	1.775	22.8	18.1
359027	2008 <i>VV</i> ₅₁		6 20.5 250°09	4°9/20.4	17		413153	2002 <i>EN</i> ₁₁₃		6 20.5 167°93	5°3/20.4	17	
5 21	18 27.42	-32 48.2	1.367	2.260	15.6	21.4	5 21	18 27.38	-34 21.8	1.491	2.378	14.9	20.9
5 31	18 20.29	-33 27.2	1.298	2.252	11.6	21.1	5 31	18 19.99	-35 5.9	1.431	2.379	11.1	20.7
6 10	18 9.99	-33 57.0	1.251	2.243	7.4	20.9	6 10	18 9.71	-35 39.5	1.393	2.381	7.4	20.4
6 20	17 57.67	-34 11.9	1.227	2.234	4.9	20.7	6 20	17 57.71	-35 57.1	1.379	2.382	5.3	20.3
6 30	17 45.03	-34 8.6	1.229	2.225	7.1	20.8	6 30	17 45.60	-35 56.0	1.391	2.382	7.1	20.4
7 10	17 33.90	-33 48.7	1.254	2.215	11.4	21.0	7 10	17 35.01	-35 37.8	1.427	2.383	10.8	20.6
7 20	17 25.67	-33 16.9	1.301	2.205	15.7	21.2	7 20	17 27.17	-35 7.3	1.486	2.383	14.5	20.9
7 30	17 21.20	-32 39.4	1.366	2.195	19.5	21.5	7 30	17 22.81	-34 30.4	1.563	2.384	17.8	21.1
435881	2008 <i>YV</i> ₁₃₈		6 20.5 247°55	3°4/20.6	18		254562	2005 <i>EP</i> ₃₂₄		6 20.5 56°08	0°5/20.5	17	
5 21	18 20.03	-12 53.7	2.164	3.041	11.3	21.6	5 21	18 23.87	-24 25.1	1.283	2.189	15.5	20.3
5 31	18 13.99	-12 52.2	2.082	3.027	8.4	21.4	5 31	18 17.30	-24 30.3	1.237	2.202	10.9	20.1
6 10	18 6.26	-12 58.2	2.025	3.014	5.3	21.2	6 10	18 8.16	-24 33.7	1.213	2.215	5.7	19.8
6 20	17 57.49	-13 12.0	1.994	2.999	3.5	21.0	6 20	17 57.64	-24 33.6	1.212	2.229	0.6	19.5
6 30	17 48.52	-13 33.3	1.991	2.985	5.0	21.1	6 30	17 47.27	-24 29.4	1.237	2.242	5.1	19.8
7 10	17 40.23	-14 1.3	2.015	2.970	8.2	21.3	7 10	17 38.51	-24 22.2	1.285	2.257	10.1	20.2
7 20	17 33.39	-14 34.9	2.064	2.955	11.4	21.4	7 20	17 32.38	-24 14.2	1.355	2.271	14.4	20.5
7 30	17 28.59	-15 12.8	2.135	2.939	14.2	21.6	7 30	17 29.46	-24 7.4	1.443	2.285	18.0	20.7
101511	1998 <i>XH</i> ₂₃		6 20.5 256°67	0°1/20.5	18		476982	2008 <i>YZ</i> ₅₄		6 20.5 201°35	1°7/20.5	17	
5 21	18 20.83	-23 42.4	2.002	2.892	11.5	20.1	5 21	18 21.79	-27 41.0	2.132	3.018	11.1	21.9
5 31	18 14.68	-23 43.9	1.927	2.885	8.1	19.9	5 31	18 15.30	-27 58.9	2.062	3.016	7.9	21.7
6 10	18 6.65	-23 44.4	1.876	2.876	4.3	19.6	6 10	18 6.98	-28 13.3	2.016	3.014	4.4	21.5
6 20	17 57.52	-23 42.9	1.852	2.868	0.2	19.3	6 20	17 57.59	-28 22.2	1.998	3.012	1.7	21.3
6 30	17 48.24	-23 39.2	1.856	2.860	3.9	19.6	6 30	17 48.10	-28 24.7	2.008	3.009	4.1	21.5
7 10	17 39.86	-23 33.6	1.886	2.851	7.9	19.8	7 10	17 39.52	-28 21.1	2.044	3.007	7.6	21.7
7 20	17 33.18	-23 27.4	1.940	2.843	11.4	20.0	7 20	17 32.64	-28 13.1	2.106	3.004	10.9	21.9
7 30	17 28.82	-23 22.0	2.016	2.834	14.5	20.2	7 30	17 28.06	-28 2.8	2.189	3.000	13.7	22.1
31171	1997 <i>XB</i>		6 20.5 145°00	0°9/20.6	18		162108	1998 <i>RH</i> ₃₆		6 20.5 283°57	5°9/20.1	18	
5 21	18 22.81	-19 39.7	1.886	2.774	12.2	19.5	5 21	18 19.31	-8 50.5	1.910	2.783	12.7	20.3
5 31	18 16.04	-20 3.2	1.824	2.780	8.6	19.3	5 31	18 13.70	-8 12.4	1.825	2.761	9.9	20.1
6 10	18 7.35	-20 30.1	1.787	2.786	4.6	19.1	6 10	18 6.22	-7 44.0	1.763	2.740	7.2	19.8
6 20	17 57.55	-20 58.6	1.776	2.792	0.9	18.8	6 20	17 57.56	-7 27.8	1.726	2.717	5.9	19.7
6 30	17 47.69	-21 27.2	1.793	2.797	4.1	19.1	6 30	17 48.62	-7 25.5	1.715	2.695	7.2	19.8
7 10	17 38.81	-21 54.8	1.837	2.802	8.1	19.3	7 10	17 40.41	-7 37.2	1.730	2.673	10.1	19.9
7 20	17 31.77	-22 21.2	1.906	2.807	11.7	19.6	7 20	17 33.76	-8 2.0	1.768	2.650	13.4	20.0
7 30	17 27.14	-22 46.6	1.996	2.811	14.7	19.8	7 30	17 29.34	-8 37.5	1.826	2.628	16.3	20.2
267435	2002 <i>CL</i> ₁₄₃		6 20.5 37°96	6°1/21.1	18		86085	1999 <i>RW</i> ₈₀		6 20.5 333°10	4°1/20.8	18	
5 21	18 19.79	-8 24.4	1.495	2.379	15.1	19.5	5 21	18 21.57	-34 56.9	1.982	2.863	12.0	19.1
5 31	18 14.11	-8 17.3	1.443	2.386	11.5	19.3	5 31	18 15.34	-35 6.8	1.912	2.858	9.0	18.9
6 10	18 6.39	-8 25.3	1.412	2.394	8.1	19.1	6 10	18 7.06	-35 6.8	1.866	2.853	5.9	18.7
6 20	17 57.51	-8 49.3	1.405	2.403	6.1	19.0	6 20	17 57.60	-34 54.4	1.844	2.848	4.1	18.6
6 30	17 48.63	-9 28.6	1.423	2.411	7.4	19.1	6 30	17 48.09	-34 28.9	1.850	2.843	5.5	18.6
7 10	17 40.89	-10 20.4	1.465	2.420	10.6	19.3	7 10	17 39.67	-33 52.4	1.882	2.838	8.5	18.8
7 20	17 35.17	-11 21.1	1.530	2.430	14.1	19.6	7 20	17 33.21	-33 8.3	1.937	2.834	11.7	19.0
7 30	17 32.04	-12 27.2	1.614	2.440	17.1	19.8	7 30	17 29.33	-32 20.9	2.014	2.831	14.5	19.2
435928	2009 <i>BA</i> ₁₄₀		6 20.5 284°95	0°3/20.5	16		295905	2008 <i>WB</i> ₉₃		6 20.5 235°09	2°8/20.5	18	
5 21	18 20.29	-22 26.8	1.906	2.799	11.8	21.6	5 21	18 20.81	-14 11.5	2.466	3.338	10.3	21.6
5 31	18 14.38	-22 29.4	1.831	2.790	8.4	21.3	5 31	18 14.42	-14 7.6	2.378	3.322	7.5	21.4
6 10	18 6.54	-22 32.2	1.781	2.781	4.4	21.1	6 10	18 6.48	-14 9.2	2.315	3.305	4.7	21.2
6 20	17 57.53	-22 34.5	1.756	2.772	0.4	20.7	6 20	17 57.58	-14 16.4	2.280	3.287	2.8	21.1
6 30	17 48.37	-22 35.6	1.759	2.763	4.1	21.0	6 30	17 48.48	-14 29.2	2.274	3.269	4.4	21.1
7 10	17 40.11	-22 35.9	1.788	2.755	8.1	21.2	7 10	17 39.98	-14 47.1	2.296	3.250	7.4	21.3
7 20	17 33.59	-22 36.2	1.841	2.746	11.8	21.4	7 20	17 32.77	-15 9.6	2.344	3.230	10.4	21.5
7 30	17 29.46	-22 37.6	1.915	2.737	14.9	21.6	7 30	17 27.41	-15 36.0	2.415	3.210	13.0	21.6
87360	2000 <i>QK</i> ₄₂		6 20.5 98°15	7°4/21.3	18		343302	2010 <i>AE</i> ₈₉		6 20.5 164°84	2°3/20.5	17	
5 21	18 28.50	-42 28.8	1.714	2.576	14.5	18.7	5 21	18 20.22	-16 54.3	1.943	2.831	11.9	21.1
5 31	18 20.53	-42 52.5	1.656	2.580	11.6	18.6	5 31	18 14.19	-16 51.7	1.877	2.831	8.5	20.9
6 10	18 9.85	-42 58.1	1.620	2.585	8.9	18.4	6 10	18 6.39	-16 53.9	1.836	2.832	4.9	20.7
6 20	17 57.70	-42 40.9	1.608	2.589	7.4	18.3	6 20	17 57.58	-17 0.7	1.821	2.833	2.3	20.5
6 30	17 45.69	-42 0.2	1.621	2.594	8.3	18.4	6 30	17 48.70	-17 11.8	1.833	2.833	4.5	20.7
7 10	17 35.36	-40 59.7	1.659	2.598	10.8	18.6	7 10	17 40.71	-17 26.9	1.871	2.834	8.1	20.9
7 20	17 27.80	-39 46.0	1.720	2.603	13.7	18.7	7 20	17 34.40	-17 45.4	1.934	2.834	11.6	21.1
7 30	17 23.59	-38 26.6	1.801	2.607	16.4	18.9	7 30	17 30.33	-18 6.9	2.018	2.835	14.5	21.3
187487	2006 <i>SM</i> ₅₄		6 20.5 234°28	0°9/20.5	18		16922						

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
499510	2010 <i>OR</i> ₈₅		6 20.5 265°50	4.5/19.9	18		383142	2005 <i>UC</i> ₁₆₂		6 20.5 282°57	0.4/20.5	18	
5 21	18 22.17	-35 22.2	2.387	3.259	10.6	20.8	5 21	18 23.51	-22 57.4	1.693	2.586	13.1	21.3
5 31	18 15.69	-36 17.9	2.313	3.251	8.0	20.6	5 31	18 17.18	-23 26.2	1.600	2.559	9.3	21.0
6 10	18 7.27	-37 6.6	2.263	3.243	5.6	20.5	6 10	18 8.33	-23 57.3	1.531	2.531	5.0	20.7
6 20	17 57.64	-37 44.7	2.241	3.235	4.5	20.4	6 20	17 57.73	-24 27.9	1.487	2.503	0.5	20.3
6 30	17 47.76	-38 9.4	2.246	3.227	5.7	20.5	6 30	17 46.56	-24 55.8	1.470	2.475	4.7	20.5
7 10	17 38.66	-38 20.7	2.278	3.219	8.1	20.6	7 10	17 36.17	-25 19.5	1.480	2.446	9.5	20.7
7 20	17 31.21	-38 20.2	2.334	3.211	10.8	20.8	7 20	17 27.76	-25 39.4	1.512	2.417	13.9	20.9
7 30	17 26.08	-38 11.1	2.412	3.203	13.2	20.9	7 30	17 22.24	-25 56.9	1.565	2.388	17.7	21.1
397410	2006 <i>XJ</i> ₃₅		6 20.5 203°22	1.8/20.9	18		292269	2006 <i>SG</i> ₁₁₀		6 20.5 300°31	0.5/20.5	17	
5 21	18 20.73	-15 8.0	2.254	3.131	10.9	20.3	5 21	18 22.59	-23 28.5	1.368	2.272	14.8	20.5
5 31	18 14.44	-15 54.1	2.182	3.131	7.8	20.1	5 31	18 16.86	-23 11.0	1.280	2.244	10.7	20.2
6 10	18 6.52	-16 47.7	2.136	3.131	4.5	19.9	6 10	18 8.28	-22 51.2	1.214	2.216	5.7	19.8
6 20	17 57.61	-17 46.8	2.118	3.130	1.8	19.7	6 20	17 57.73	-22 28.1	1.171	2.187	0.5	19.3
6 30	17 48.52	-18 49.0	2.128	3.130	3.9	19.9	6 30	17 46.64	-22 2.5	1.154	2.159	5.4	19.6
7 10	17 40.14	-19 51.8	2.168	3.130	7.2	20.1	7 10	17 36.60	-21 36.1	1.160	2.131	10.9	19.8
7 20	17 33.20	-20 53.3	2.233	3.129	10.4	20.3	7 20	17 28.97	-21 11.9	1.187	2.104	16.0	20.1
7 30	17 28.26	-21 52.6	2.322	3.129	13.1	20.5	7 30	17 24.70	-20 52.6	1.233	2.076	20.3	20.3
22951	Okabekazuko		6 20.5 291°10	1.7/20.3	18		32184	Yamaura		6 20.5 295°53	1.6/20.8	18	
5 21	18 20.36	-26 25.0	2.218	3.105	10.7	18.4	5 21	18 24.10	-29 18.2	1.592	2.486	13.7	18.4
5 31	18 14.38	-27 10.3	2.140	3.095	7.6	18.2	5 31	18 17.56	-28 49.0	1.506	2.464	9.9	18.1
6 10	18 6.57	-27 54.8	2.088	3.086	4.2	17.9	6 10	18 8.46	-28 10.3	1.443	2.442	5.5	17.8
6 20	17 57.61	-28 35.6	2.062	3.076	1.7	17.7	6 20	17 57.75	-27 20.9	1.405	2.419	1.7	17.5
6 30	17 48.40	-29 10.5	2.065	3.066	4.1	17.9	6 30	17 46.77	-26 22.1	1.393	2.397	4.9	17.6
7 10	17 39.93	-29 38.4	2.095	3.056	7.5	18.1	7 10	17 36.97	-25 17.6	1.407	2.375	9.7	17.9
7 20	17 33.00	-29 59.7	2.150	3.047	10.7	18.3	7 20	17 29.46	-24 12.5	1.444	2.353	14.1	18.1
7 30	17 28.27	-30 15.7	2.227	3.037	13.5	18.4	7 30	17 25.02	-23 11.5	1.501	2.331	18.0	18.3
198468	2004 <i>XE</i> ₂₄		6 20.5 269°78	1.0/20.5	18 R		277984	2006 <i>TJ</i> ₁₀₉		6 20.5 323°63	0.4/20.5	18	
5 21	18 21.36	-20 30.7	1.846	2.738	12.2	20.5	5 21	18 15.87	-21 29.5	2.615	3.503	9.2	19.8
5 31	18 15.26	-20 33.3	1.765	2.723	8.7	20.2	5 31	18 10.95	-21 40.6	2.534	3.490	6.5	19.6
6 10	18 7.10	-20 38.1	1.708	2.708	4.7	19.9	6 10	18 4.66	-21 53.1	2.477	3.477	3.4	19.4
6 20	17 57.64	-20 44.1	1.677	2.692	1.0	19.6	6 20	17 57.56	-22 6.0	2.448	3.464	0.4	19.1
6 30	17 47.92	-20 50.9	1.672	2.676	4.3	19.8	6 30	17 50.31	-22 18.8	2.448	3.452	3.1	19.3
7 10	17 39.06	-20 58.4	1.695	2.660	8.6	20.1	7 10	17 43.65	-22 31.2	2.475	3.440	6.3	19.5
7 20	17 31.99	-21 7.0	1.741	2.644	12.4	20.3	7 20	17 38.18	-22 43.3	2.527	3.428	9.2	19.7
7 30	17 27.39	-21 17.3	1.807	2.628	15.8	20.4	7 30	17 34.39	-22 55.5	2.602	3.417	11.7	19.9
312020	2007 <i>RP</i> ₄₈		6 20.5 146°49	3.8/20.5	17		214873	2007 <i>RM</i> ₁₈		6 20.5 124°36	19.5/20.7	18	
5 21	18 26.62	-30 59.0	1.476	2.368	14.7	20.7	5 21	18 23.67	+13 51.7	1.182	1.985	23.2	20.4
5 31	18 19.36	-31 33.4	1.417	2.372	10.7	20.5	5 31	18 17.23	+15 49.6	1.146	1.992	21.4	20.2
6 10	18 9.36	-32 0.2	1.380	2.375	6.5	20.3	6 10	18 8.21	+17 7.6	1.126	1.998	20.0	20.2
6 20	17 57.75	-32 15.1	1.369	2.378	3.8	20.1	6 20	17 57.73	+17 37.2	1.123	2.003	19.5	20.1
6 30	17 46.07	-32 15.9	1.382	2.381	6.1	20.3	6 30	17 47.28	+17 14.8	1.136	2.009	19.9	20.2
7 10	17 35.86	-32 3.9	1.421	2.383	10.2	20.5	7 10	17 38.30	+16 4.6	1.165	2.014	21.1	20.3
7 20	17 28.29	-31 42.9	1.482	2.385	14.2	20.7	7 20	17 31.88	+14 15.6	1.210	2.019	22.7	20.4
7 30	17 24.05	-31 17.5	1.562	2.388	17.6	21.0	7 30	17 28.66	+11 59.3	1.269	2.023	24.5	20.6
310490	2000 <i>UR</i> ₁		6 20.5 141°49	0.7/20.5	17		122846	2000 <i>SY</i> ₁₂₆		6 20.5 283°16	2.3/20.6	18	
5 21	18 25.58	-24 8.8	1.563	2.457	13.9	21.1	5 21	18 21.90	-17 22.1	1.814	2.703	12.6	19.9
5 31	18 18.34	-24 29.9	1.505	2.464	9.8	20.9	5 31	18 15.81	-17 22.1	1.719	2.674	9.1	19.6
6 10	18 8.72	-24 50.2	1.470	2.471	5.2	20.6	6 10	18 7.51	-17 27.1	1.648	2.645	5.3	19.3
6 20	17 57.73	-25 7.2	1.461	2.477	0.7	20.3	6 20	17 57.72	-17 37.0	1.602	2.615	2.3	19.1
6 30	17 46.70	-25 19.2	1.478	2.483	4.7	20.6	6 30	17 47.46	-17 51.3	1.584	2.586	4.9	19.2
7 10	17 36.98	-25 26.3	1.521	2.488	9.3	20.9	7 10	17 37.90	-18 9.5	1.592	2.555	9.2	19.4
7 20	17 29.58	-25 30.1	1.588	2.493	13.3	21.2	7 20	17 30.08	-18 31.3	1.623	2.525	13.3	19.5
7 30	17 25.14	-25 32.6	1.674	2.498	16.7	21.4	7 30	17 24.81	-18 56.6	1.675	2.494	16.9	19.7
434731	2006 <i>EX</i> ₃₆		6 20.5 145°34	4.6/20.5	17		301631	2010 <i>EN</i> ₃₈		6 20.5 350°78	14.9/19.8	17	
5 21	18 25.15	-35 18.9	1.952	2.827	12.4	21.6	5 21	18 28.49	-54 45.9	1.442	2.270	18.5	19.2
5 31	18 17.90	-35 54.1	1.890	2.832	9.3	21.5	5 31	18 22.21	-56 23.8	1.389	2.262	16.7	19.1
6 10	18 8.44	-36 19.6	1.853	2.837	6.3	21.3	6 10	18 11.52	-57 34.0	1.354	2.255	15.4	19.0
6 20	17 57.72	-36 31.6	1.842	2.841	4.7	21.2	6 20	17 57.92	-58 6.2	1.338	2.249	14.9	18.9
6 30	17 46.95	-36 28.4	1.857	2.845	6.0	21.3	6 30	17 43.95	-57 55.0	1.341	2.245	15.4	18.9
7 10	17 37.37	-36 11.5	1.899	2.849	8.9	21.5	7 10	17 32.35	-57 3.4	1.364	2.241	16.9	19.0
7 20	17 29.92	-35 44.2	1.964	2.852	12.0	21.7	7 20	17 24.95	-55 40.2	1.403	2.239	18.8	19.1
7 30	17 25.23	-35 10.9	2.051	2.855	14.7	21.9	7 30	17 22.59	-53 56.7	1.459	2.238	20.7	19.3
445239	2009 <i>KS</i> ₁₃		6 20.5 2°09	2.8/20.9	15		518489	2005 <i>VV</i> ₁₃₇		6 20.5 130°78	1.5/20.4	17	
5 21	18 17.17	-15 7.6	1.502	2.403	14.0	20.2	5 21	18 22.40	-20 27.0	1.759	2.651	12.7	22.1
5 31	18 12.46	-15 29.9	1.442	2.402	10.1	19.9	5 31	18 15.83	-20 8.4	1.699	2.656	9.0	21.9
6 10	18 5.65	-16 1.9	1.404	2.401	5.9	19.7	6 10	18 7.31	-19 51.0	1.662	2.661	4.9	21.6
6 20	17 57.58	-16 42.5	1.390	2.402	2.9	19.5	6 20	17 57.71	-19 34.9	1.651	2.666	1.5	21.4
6 30	17 49.38	-17 29.6	1.401	2.404	5.2	19.7	6 30	17 48.12	-19 20.7	1.667	2.670	4.5	21.6
7 10	17 42.23	-18 20.7	1.437	2.407	9.4	19.9	7 10	17 39.64	-19 9.3	1.709	2.674	8.6	21.9
7 20	17 37.05	-19 13.4	1.495	2.411	13.3	20.2	7 20	17 33.09	-19 1.7	1.775	2.678	12.3	22.1
7 30	17 34.49	-20 6.1	1.573	2.416	16.7	20.4	7 30	17 29.04	-18 58.6	1.862	2.682	15.4	22.3
467948	2012 <i>DS</i> ₆₄		6 20.5 115°39	6.0/20.8	17		177028						

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
388270	2006 <i>QE</i> ₁₈₅		6 20.5 326°88	1.4/20.5	16		348687	2006 <i>BC</i> ₉₆		6 20.5 49°67	3.6/20.7	17	
5 21	18 20.57	-26 57.0	1.841	2.735	12.1	21.1	5 21	18 25.86	-30 58.5	1.177	2.081	16.7	19.6
5 31	18 14.69	-27 4.8	1.771	2.730	8.6	20.9	5 31	18 19.08	-31 9.3	1.130	2.091	12.1	19.4
6 10	18 6.79	-27 9.1	1.725	2.724	4.7	20.7	6 10	18 9.29	-31 10.1	1.103	2.101	7.1	19.1
6 20	17 57.69	-27 8.4	1.705	2.719	1.4	20.4	6 20	17 57.86	-30 57.5	1.099	2.111	3.6	19.0
6 30	17 48.48	-27 1.8	1.711	2.715	4.3	20.6	6 30	17 46.60	-30 31.1	1.119	2.122	6.3	19.2
7 10	17 40.28	-26 50.4	1.743	2.710	8.3	20.8	7 10	17 37.23	-29 54.4	1.162	2.132	11.1	19.5
7 20	17 33.97	-26 35.9	1.799	2.706	11.9	21.1	7 20	17 30.92	-29 12.7	1.226	2.144	15.5	19.7
7 30	17 30.17	-26 20.5	1.876	2.702	15.1	21.3	7 30	17 28.25	-28 31.3	1.308	2.155	19.2	20.0
323254	2003 <i>SY</i> ₂₅₃		6 20.5 222°00	1.4/20.5	17		307102	2002 <i>CX</i> ₁₆		6 20.5 233°93	2.6/20.6	18	
5 21	18 23.98	-20 16.7	1.690	2.581	13.2	21.7	5 21	18 25.32	-31 11.0	2.305	3.179	10.8	21.8
5 31	18 17.17	-20 6.7	1.617	2.575	9.4	21.4	5 31	18 17.87	-31 23.2	2.216	3.163	7.9	21.6
6 10	18 8.14	-19 58.5	1.568	2.567	5.1	21.2	6 10	18 8.46	-31 29.0	2.153	3.146	4.7	21.4
6 20	17 57.77	-19 51.5	1.545	2.560	1.4	20.9	6 20	17 57.83	-31 26.1	2.118	3.128	2.6	21.2
6 30	17 47.23	-19 45.8	1.548	2.551	4.7	21.1	6 30	17 46.97	-31 13.5	2.112	3.109	4.4	21.3
7 10	17 37.74	-19 42.1	1.578	2.543	9.2	21.3	7 10	17 36.95	-30 52.1	2.133	3.090	7.7	21.4
7 20	17 30.29	-19 41.2	1.631	2.534	13.2	21.5	7 20	17 28.64	-30 24.4	2.180	3.069	10.9	21.6
7 30	17 25.55	-19 43.9	1.704	2.524	16.6	21.8	7 30	17 22.69	-29 53.7	2.250	3.048	13.8	21.8
342418	2008 <i>UG</i> ₇₁		6 20.5 266°36	0.6/20.6	17		389225	2009 <i>DA</i> ₁₃₈		6 20.5 346°69	2.3/20.5	16	
5 21	18 21.94	-25 35.7	1.841	2.733	12.2	21.0	5 21	18 20.75	-28 51.0	1.821	2.714	12.3	20.7
5 31	18 15.60	-25 26.2	1.771	2.729	8.6	20.8	5 31	18 14.87	-29 8.3	1.754	2.711	8.8	20.5
6 10	18 7.25	-25 13.4	1.724	2.725	4.6	20.6	6 10	18 6.92	-29 20.8	1.711	2.709	5.0	20.3
6 20	17 57.74	-24 56.5	1.704	2.720	0.6	20.2	6 20	17 57.74	-29 26.4	1.693	2.706	2.3	20.1
6 30	17 48.16	-24 35.7	1.711	2.716	4.2	20.5	6 30	17 48.47	-29 23.8	1.702	2.704	4.6	20.2
7 10	17 39.62	-24 12.6	1.745	2.712	8.3	20.8	7 10	17 40.25	-29 13.9	1.737	2.702	8.4	20.4
7 20	17 32.99	-23 49.2	1.802	2.707	12.0	21.0	7 20	17 33.98	-28 58.8	1.795	2.701	12.0	20.7
7 30	17 28.88	-23 27.7	1.880	2.703	15.2	21.2	7 30	17 30.28	-28 41.3	1.874	2.700	15.1	20.9
352459	2008 <i>AQ</i> ₈₅		6 20.5 207°25	4.6/21.1	18		242718	2005 <i>UQ</i> ₁₁₂		6 20.5 316°45	5.5/20.0	17	
5 21	18 19.16	-7 56.0	2.348	3.209	11.1	20.9	5 21	18 24.00	-33 34.5	1.483	2.376	14.6	19.8
5 31	18 13.26	-8 3.4	2.276	3.207	8.5	20.7	5 31	18 17.85	-34 35.9	1.414	2.366	11.0	19.5
6 10	18 5.90	-8 21.6	2.228	3.204	6.0	20.5	6 10	18 8.79	-35 29.7	1.368	2.356	7.4	19.3
6 20	17 57.68	-8 50.9	2.207	3.200	4.6	20.4	6 20	17 57.86	-36 9.5	1.345	2.347	5.5	19.1
6 30	17 49.34	-9 30.5	2.214	3.197	5.6	20.5	6 30	17 46.54	-36 31.2	1.348	2.339	7.4	19.2
7 10	17 41.68	-10 18.8	2.248	3.193	8.0	20.6	7 10	17 36.51	-36 34.7	1.374	2.330	11.1	19.4
7 20	17 35.32	-11 13.7	2.307	3.189	10.7	20.8	7 20	17 29.08	-36 23.3	1.422	2.322	14.9	19.6
7 30	17 30.80	-12 12.9	2.389	3.185	13.1	21.0	7 30	17 25.09	-36 2.1	1.489	2.315	18.3	19.8
179250	2001 <i>UV</i> ₁₀₆		6 20.5 226°12	3.2/20.3	18		362583	2010 <i>VE</i> ₁₆₃		6 20.5 306°12	0.6/20.5	18	
5 21	18 22.20	-32 8.2	2.358	3.235	10.5	21.2	5 21	18 19.16	-24 40.6	2.059	2.952	11.1	21.0
5 31	18 15.63	-32 44.8	2.283	3.229	7.7	21.0	5 31	18 13.63	-24 51.3	1.977	2.935	7.9	20.8
6 10	18 7.25	-33 15.8	2.233	3.222	4.9	20.8	6 10	18 6.26	-25 1.0	1.918	2.918	4.2	20.5
6 20	17 57.75	-33 38.3	2.210	3.216	3.2	20.7	6 20	17 57.73	-25 8.4	1.886	2.902	0.6	20.2
6 30	17 48.07	-33 50.5	2.216	3.209	4.7	20.8	6 30	17 48.98	-25 12.5	1.881	2.885	3.9	20.4
7 10	17 39.20	-33 52.7	2.249	3.201	7.6	20.9	7 10	17 41.00	-25 13.5	1.903	2.869	7.7	20.6
7 20	17 31.94	-33 46.4	2.307	3.194	10.5	21.1	7 20	17 34.63	-25 12.3	1.949	2.854	11.3	20.8
7 30	17 26.92	-33 34.3	2.386	3.186	13.0	21.3	7 30	17 30.51	-25 10.3	2.016	2.838	14.3	21.0
391991	2008 <i>YW</i> ₃₃		6 20.5 254°10	2.3/20.7	18		427740	2004 <i>RA</i> ₈₂		6 20.5 305°62	9.6/19.9	16	
5 21	18 20.94	-15 55.8	2.113	2.994	11.4	21.7	5 21	18 27.47	-44 36.4	1.621	2.480	15.3	20.6
5 31	18 14.78	-16 4.2	2.028	2.978	8.2	21.5	5 31	18 20.55	-45 46.4	1.552	2.468	12.7	20.4
6 10	18 6.83	-16 18.5	1.967	2.962	4.8	21.2	6 10	18 10.33	-46 38.9	1.504	2.456	10.5	20.2
6 20	17 57.73	-16 38.1	1.934	2.945	2.4	21.0	6 20	17 57.96	-47 6.3	1.479	2.444	9.6	20.1
6 30	17 48.38	-17 2.4	1.928	2.928	4.4	21.1	6 30	17 45.19	-47 4.1	1.478	2.433	10.6	20.1
7 10	17 39.72	-17 30.4	1.950	2.911	8.0	21.3	7 10	17 33.94	-46 33.6	1.499	2.421	12.9	20.3
7 20	17 32.57	-18 1.3	1.997	2.893	11.4	21.5	7 20	17 25.69	-45 41.0	1.541	2.410	15.7	20.4
7 30	17 27.56	-18 34.6	2.066	2.875	14.4	21.7	7 30	17 21.31	-44 34.5	1.601	2.400	18.4	20.6
91918	1999 <i>VS</i> ₃₂		6 20.5 171°25	0.1/20.5	18		231886	2000 <i>VK</i> ₂₆		6 20.5 190°87	0.5/20.5	18	
5 21	18 18.70	-23 11.0	2.826	3.707	8.8	20.7	5 21	18 22.27	-22 7.4	2.522	3.400	9.8	22.2
5 31	18 12.77	-23 12.6	2.756	3.710	6.2	20.5	5 31	18 15.39	-22 0.9	2.447	3.399	6.9	22.0
6 10	18 5.57	-23 13.7	2.713	3.712	3.3	20.3	6 10	18 7.01	-21 54.0	2.398	3.396	3.7	21.8
6 20	17 57.67	-23 13.6	2.697	3.714	0.2	20.1	6 20	17 57.78	-21 46.3	2.377	3.393	0.5	21.5
6 30	17 49.74	-23 12.2	2.712	3.715	2.9	20.3	6 30	17 48.49	-21 37.8	2.386	3.389	3.3	21.8
7 10	17 42.46	-23 9.6	2.754	3.716	5.9	20.5	7 10	17 39.94	-21 29.1	2.424	3.385	6.6	22.0
7 20	17 36.38	-23 6.7	2.823	3.717	8.5	20.7	7 20	17 32.81	-21 21.0	2.488	3.379	9.6	22.2
7 30	17 31.95	-23 4.1	2.915	3.718	10.8	20.9	7 30	17 27.58	-21 14.6	2.574	3.373	12.2	22.3
50764	2000 <i>EZ</i> ₁₈₅		6 20.5 289°86	0.2/20.5	17		297146	2010 <i>UF</i>		6 20.5 8°57	10.6/17.1	18	
5 21	18 23.14	-23 41.7	1.511	2.410	14.0	20.3	5 21	18 28.36	-12 44.8	0.951	1.856	19.7	18.9
5 31	18 17.10	-23 47.7	1.423	2.384	10.0	20.0	5 31	18 20.91	-9 29.0	0.902	1.856	15.3	18.7
6 10	18 8.38	-23 53.3	1.357	2.358	5.4	19.7	6 10	18 10.30	-6 17.0	0.874	1.856	11.6	18.5
6 20	17 57.83	-23 56.7	1.316	2.332	0.4	19.2	6 20	17 57.97	-3 24.2	0.868	1.856	10.8	18.4
6 30	17 46.75	-23 56.7	1.301	2.306	5.0	19.5	6 30	17 45.79	-1 5.0	0.886	1.857	13.5	18.6
7 10	17 36.64	-23 53.7	1.310	2.280	10.1	19.7	7 10	17 35.59	+0 32.5	0.924	1.858	17.7	18.8
7 20	17 28.75	-23 49.2	1.342	2.253	14.8	19.9	7 20	17 28.57	+1 28.3	0.980	1.859	21.8	19.1
7 30	17 24.00	-23 45.5	1.393	2.227	18.9	20.1	7 30	17 25.37	+1 48.2	1.049	1.860	25.3	19.3
300943	2008 <i>CT</i> ₁₇₅		6 20.5 204°36	2.3/20.7	18		271052</						

EPHEMERIDES

6 20.5

6 20.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
235184	2003 <i>SL</i> ₉₃		6 20.5 273°30	1°2/20.5	18		250080	2002 <i>EQ</i> ₁₅₅		6 20.6 60°24	3°5/20.3	17	
5 21	18 22.21	-26 25.9	1.933	2.823	11.9	20.4	5 21	18 23.30	-17 23.0	1.275	2.177	15.8	19.8
5 31	18 15.93	-26 37.0	1.848	2.805	8.5	20.2	5 31	18 16.90	-16 44.1	1.226	2.187	11.4	19.5
6 10	18 7.55	-26 45.4	1.788	2.787	4.6	19.9	6 10	18 8.05	-16 10.4	1.199	2.197	6.7	19.3
6 20	17 57.84	-26 49.1	1.753	2.769	1.3	19.6	6 20	17 57.90	-15 43.5	1.196	2.207	3.6	19.1
6 30	17 47.84	-26 47.2	1.747	2.750	4.3	19.8	6 30	17 47.87	-15 25.1	1.218	2.218	6.3	19.3
7 10	17 38.70	-26 40.0	1.766	2.731	8.3	20.0	7 10	17 39.35	-15 16.1	1.262	2.229	10.8	19.6
7 20	17 31.38	-26 29.4	1.810	2.713	12.1	20.2	7 20	17 33.31	-15 16.6	1.329	2.240	15.0	19.9
7 30	17 26.58	-26 17.4	1.875	2.694	15.3	20.4	7 30	17 30.33	-15 25.6	1.413	2.251	18.5	20.2
359491	2010 <i>OL</i> ₈₁		6 20.5 308°64	4°0/20.7	18		381664	2009 <i>BR</i> ₁₇		6 20.6 127°67	1°8/20.4	17	
5 21	18 21.44	-35 0.5	2.142	3.020	11.4	20.5	5 21	18 23.29	-26 49.9	2.031	2.917	11.5	20.9
5 31	18 15.26	-35 17.6	2.067	3.011	8.5	20.3	5 31	18 16.47	-27 30.1	1.971	2.925	8.2	20.7
6 10	18 7.11	-35 25.7	2.016	3.002	5.7	20.1	6 10	18 7.74	-28 8.0	1.935	2.933	4.6	20.5
6 20	17 57.82	-35 22.2	1.991	2.993	4.0	19.9	6 20	17 57.89	-28 40.6	1.927	2.940	1.8	20.3
6 30	17 48.40	-35 6.1	1.994	2.984	5.3	20.0	6 30	17 47.97	-29 5.9	1.946	2.947	4.2	20.5
7 10	17 39.95	-34 38.8	2.022	2.976	8.2	20.2	7 10	17 39.02	-29 23.6	1.993	2.954	7.8	20.7
7 20	17 33.32	-34 3.1	2.075	2.968	11.2	20.3	7 20	17 31.88	-29 34.6	2.064	2.961	11.1	20.9
7 30	17 29.12	-33 22.9	2.149	2.960	13.9	20.5	7 30	17 27.15	-29 41.0	2.157	2.967	13.9	21.1
395635	2011 <i>WC</i> ₁₂		6 20.5 283°11	3°3/20.2	16		116640	2004 <i>CK</i> ₁		6 20.6 270°26	2°2/19.8	18	
5 21	18 18.83	-15 11.7	2.165	3.047	11.1	21.6	5 21	18 32.27	-22 48.6	1.784	2.660	13.3	18.7
5 31	18 13.11	-14 32.5	2.095	3.044	8.1	21.4	5 31	18 23.79	-24 45.6	1.682	2.633	9.6	18.4
6 10	18 5.87	-13 57.5	2.051	3.041	5.1	21.2	6 10	18 12.20	-26 52.5	1.608	2.605	5.4	18.0
6 20	17 57.76	-13 28.0	2.033	3.039	3.3	21.1	6 20	17 58.17	-29 1.5	1.563	2.576	2.2	17.8
6 30	17 49.61	-13 5.5	2.042	3.036	5.0	21.2	6 30	17 42.94	-31 3.4	1.549	2.546	5.7	17.9
7 10	17 42.25	-12 50.7	2.079	3.033	8.0	21.4	7 10	17 28.12	-32 51.4	1.565	2.516	10.4	18.1
7 20	17 36.35	-12 44.0	2.139	3.030	11.0	21.5	7 20	17 15.25	-34 22.5	1.607	2.485	14.7	18.3
7 30	17 32.42	-12 44.9	2.221	3.027	13.7	21.7	7 30	17 5.55	-35 38.0	1.671	2.454	18.4	18.5
294931	2008 <i>DD</i> ₄₈		6 20.6 358°26	0°7/20.5	16		349312	2007 <i>UU</i> ₅₈		6 20.6 227°01	1°0/20.5	16	
5 21	18 18.67	-24 53.1	1.753	2.653	12.4	20.8	5 21	18 21.40	-25 58.8	2.074	2.962	11.2	21.6
5 31	18 13.42	-25 3.5	1.689	2.650	8.7	20.5	5 31	18 15.14	-26 10.9	2.003	2.959	8.0	21.4
6 10	18 6.18	-25 12.6	1.648	2.649	4.7	20.3	6 10	18 7.04	-26 20.7	1.957	2.956	4.3	21.2
6 20	17 57.78	-25 18.8	1.632	2.648	0.8	20.0	6 20	17 57.86	-26 26.5	1.937	2.952	1.1	20.9
6 30	17 49.29	-25 21.4	1.642	2.647	4.2	20.3	6 30	17 48.58	-26 27.6	1.945	2.948	3.9	21.2
7 10	17 41.82	-25 20.7	1.678	2.648	8.3	20.5	7 10	17 40.18	-26 24.3	1.980	2.944	7.6	21.4
7 20	17 36.22	-25 17.8	1.737	2.649	12.0	20.7	7 20	17 33.49	-26 18.1	2.039	2.940	11.0	21.6
7 30	17 33.11	-25 14.4	1.817	2.650	15.2	21.0	7 30	17 29.08	-26 10.6	2.120	2.936	13.9	21.8
477837	2011 <i>FN</i> ₁₉		6 20.6 24°03	6°0/20.1	16		190658	2000 <i>YA</i> ₄₄		6 20.6 214°64	0°6/20.6	18	
5 21	18 22.41	-33 5.4	1.204	2.110	16.3	20.5	5 21	18 21.99	-21 30.1	2.139	3.024	11.1	20.9
5 31	18 16.82	-34 20.4	1.163	2.121	12.1	20.3	5 31	18 15.48	-21 30.9	2.063	3.018	7.8	20.7
6 10	18 8.22	-35 25.4	1.143	2.134	8.1	20.1	6 10	18 7.21	-21 32.5	2.012	3.011	4.2	20.5
6 20	17 57.89	-36 13.2	1.146	2.148	6.0	20.0	6 20	17 57.88	-21 33.9	1.989	3.004	0.7	20.2
6 30	17 47.56	-36 40.0	1.171	2.164	8.0	20.2	6 30	17 48.43	-21 35.0	1.993	2.997	3.8	20.4
7 10	17 38.99	-36 46.5	1.219	2.180	11.7	20.4	7 10	17 39.79	-21 35.8	2.025	2.989	7.5	20.7
7 20	17 33.37	-36 37.1	1.288	2.197	15.5	20.7	7 20	17 32.76	-21 37.2	2.083	2.981	10.9	20.8
7 30	17 31.37	-36 17.4	1.374	2.216	18.7	21.0	7 30	17 27.91	-21 39.8	2.162	2.972	13.9	21.0
303828	2005 <i>SX</i> ₁₂₀		6 20.6 90°09	4°4/20.5	17		136862	1998 <i>FW</i> ₄₀		6 20.6 51°54	4°9/20.6	17	
5 21	18 18.28	-10 36.8	2.247	3.119	11.1	21.0	5 21	18 26.28	-32 13.1	1.200	2.102	16.6	19.1
5 31	18 12.61	-10 10.3	2.190	3.129	8.4	20.9	5 31	18 19.40	-32 56.8	1.160	2.118	12.2	18.9
6 10	18 5.55	-9 51.9	2.157	3.138	5.8	20.7	6 10	18 9.51	-33 29.9	1.141	2.135	7.6	18.7
6 20	17 57.75	-9 42.7	2.151	3.147	4.4	20.6	6 20	17 58.00	-33 47.2	1.145	2.152	4.9	18.6
6 30	17 49.97	-9 43.4	2.172	3.157	5.5	20.7	6 30	17 46.69	-33 46.6	1.172	2.170	7.1	18.7
7 10	17 42.97	-9 53.5	2.220	3.166	8.0	20.9	7 10	17 37.30	-33 30.6	1.223	2.188	11.2	19.0
7 20	17 37.37	-10 12.0	2.292	3.175	10.7	21.1	7 20	17 30.97	-33 4.2	1.294	2.206	15.3	19.3
7 30	17 33.60	-10 37.5	2.386	3.184	13.1	21.3	7 30	17 28.29	-32 32.9	1.384	2.224	18.7	19.6
335093	2004 <i>TD</i> ₇₅		6 20.6 273°99	1°0/20.5	16		129789	1999 <i>JT</i> ₈₅		6 20.6 51°57	4°0/20.6	17	
5 21	18 22.47	-25 30.5	1.798	2.691	12.5	21.9	5 21	18 22.59	-15 15.7	1.240	2.142	16.2	19.0
5 31	18 16.22	-25 43.6	1.717	2.675	8.9	21.6	5 31	18 16.50	-14 58.8	1.192	2.151	11.8	18.8
6 10	18 7.75	-25 54.9	1.660	2.660	4.8	21.3	6 10	18 7.91	-14 50.9	1.164	2.160	7.1	18.5
6 20	17 57.87	-26 2.4	1.628	2.644	1.0	21.0	6 20	17 57.92	-14 52.6	1.159	2.169	4.0	18.4
6 30	17 47.71	-26 4.7	1.624	2.628	4.4	21.2	6 30	17 47.99	-15 3.9	1.178	2.179	6.5	18.5
7 10	17 38.47	-26 2.3	1.645	2.612	8.7	21.5	7 10	17 39.53	-15 23.8	1.221	2.188	11.0	18.8
7 20	17 31.17	-25 56.7	1.691	2.596	12.7	21.7	7 20	17 33.55	-15 50.9	1.285	2.198	15.2	19.1
7 30	17 26.54	-25 49.9	1.756	2.580	16.0	21.9	7 30	17 30.67	-16 23.4	1.367	2.209	18.8	19.4
195031	2002 <i>CE</i> ₄₆		6 20.6 16°67	6°4/19.4	17		35229	<i>Benckert</i>		6 20.6 14°24	5°7/20.3	18	
5 21	18 19.13	-14 13.7	1.212	2.119	16.1	18.6	5 21	18 24.95	-33 2.1	1.215	2.117	16.4	17.2
5 31	18 13.97	-12 35.3	1.167	2.126	12.0	18.4	5 31	18 18.76	-33 59.2	1.162	2.119	12.2	17.0
6 10	18 6.49	-11 4.3	1.143	2.133	8.2	18.2	6 10	18 9.37	-34 46.7	1.129	2.121	8.0	16.8
6 20	17 57.81	-9 46.7	1.141	2.142	6.4	18.1	6 20	17 58.01	-35 18.0	1.119	2.123	5.7	16.6
6 30	17 49.28	-8 47.5	1.164	2.153	8.5	18.3	6 30	17 46.50	-35 29.1	1.132	2.126	7.8	16.8
7 10	17 42.20	-8 9.3	1.208	2.164	12.3	18.5	7 10	17 36.71	-35 21.4	1.167	2.130	11.9	17.0
7 20	17 37.46	-7 51.6	1.273	2.177	16.0	18.8	7 20	17 29.98	-34 59.5	1.223	2.134	16.0	17.3
7 30	17 35.62	-7 51.8	1.355	2.190	19.3	19.0	7 30	17 27.08	-34 29.7	1.297	2.138	19.6	17.5
455700	2005 <i>ES</i> ₁₉₇		6 20.6 70°12	1°1/20.6	17		119879						

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
472511	2015 <i>CW</i> ₃₂		6 20.6	37°87	8°8/21.7	16	509771	2008 <i>UV</i> ₉₀		6 20.6	234°85	3°8/20.4	17
5 21	18 19.35	- 2 10.6	1.475	2.341	16.2	20.9	5 21	18 24.86	-33 18.7	2.187	3.062	11.3	22.4
5 31	18 13.86	- 1 50.3	1.429	2.352	13.1	20.7	5 31	18 17.76	-33 55.6	2.106	3.050	8.4	22.2
6 10	18 6.40	- 1 51.4	1.404	2.365	10.3	20.6	6 10	18 8.56	-34 25.7	2.050	3.037	5.5	22.0
6 20	17 57.86	- 2 15.7	1.402	2.378	8.9	20.5	6 20	17 58.04	-34 45.5	2.021	3.024	3.8	21.9
6 30	17 49.38	- 3 2.5	1.423	2.391	9.6	20.6	6 30	17 47.24	-34 52.8	2.019	3.010	5.3	22.0
7 10	17 42.05	- 4 8.4	1.467	2.405	12.0	20.8	7 10	17 37.32	-34 48.0	2.045	2.996	8.3	22.1
7 20	17 36.70	- 5 28.0	1.533	2.420	14.8	21.0	7 20	17 29.21	-34 33.4	2.095	2.981	11.4	22.3
7 30	17 33.88	- 6 55.8	1.618	2.435	17.5	21.2	7 30	17 23.61	-34 12.3	2.167	2.966	14.2	22.4
156418	2002 <i>AV</i> ₈₁		6 20.6	86°86	2°9/20.5	17	172541	2003 <i>UM</i> ₄₈		6 20.6	214°31	0°2/20.6	18
5 21	18 22.99	-16 23.9	1.747	2.633	13.1	20.0	5 21	18 24.57	-21 30.3	1.676	2.567	13.3	20.5
5 31	18 16.13	-16 6.7	1.702	2.655	9.4	19.8	5 31	18 17.75	-21 54.5	1.605	2.562	9.4	20.3
6 10	18 7.47	-15 54.8	1.681	2.676	5.5	19.6	6 10	18 8.61	-22 21.1	1.557	2.557	5.0	20.0
6 20	17 57.92	-15 48.5	1.687	2.697	2.9	19.5	6 20	17 58.04	-22 48.0	1.536	2.552	0.4	19.6
6 30	17 48.53	-15 48.0	1.719	2.718	5.0	19.7	6 30	17 47.24	-23 13.1	1.542	2.546	4.5	20.0
7 10	17 40.33	-15 53.2	1.777	2.738	8.6	19.9	7 10	17 37.48	-23 35.5	1.573	2.540	9.0	20.2
7 20	17 34.05	-16 3.9	1.860	2.758	12.0	20.2	7 20	17 29.79	-23 55.6	1.629	2.534	13.1	20.4
7 30	17 30.18	-16 19.2	1.963	2.778	14.9	20.4	7 30	17 24.89	-24 14.3	1.705	2.527	16.5	20.7
397721	2008 <i>DC</i> ₆₉		6 20.6	42°69	3°8/20.6	18	125321	2001 <i>VB</i> ₄₀		6 20.6	274°94	2°4/20.5	17
5 21	18 21.64	-33 36.1	2.090	2.971	11.5	20.7	5 21	18 25.25	-27 23.3	1.342	2.243	15.3	19.8
5 31	18 15.37	-34 4.9	2.030	2.976	8.5	20.5	5 31	18 18.77	-27 55.1	1.275	2.236	11.0	19.6
6 10	18 7.18	-34 26.0	1.993	2.981	5.5	20.3	6 10	18 9.36	-28 23.7	1.230	2.229	6.2	19.3
6 20	17 57.92	-34 36.4	1.983	2.986	3.8	20.2	6 20	17 58.09	-28 44.9	1.208	2.222	2.4	19.0
6 30	17 48.62	-34 35.0	2.000	2.992	5.2	20.3	6 30	17 46.51	-28 56.0	1.211	2.215	5.8	19.2
7 10	17 40.34	-34 22.7	2.043	2.998	8.1	20.5	7 10	17 36.30	-28 57.1	1.239	2.207	10.7	19.5
7 20	17 33.91	-34 2.1	2.110	3.003	11.0	20.7	7 20	17 28.76	-28 51.0	1.287	2.200	15.3	19.7
7 30	17 29.89	-33 36.5	2.199	3.009	13.6	20.9	7 30	17 24.72	-28 41.1	1.355	2.193	19.1	19.9
514246	2015 <i>PC</i> ₅₀		6 20.6	310°67	1°6/20.5	18	428763	2008 <i>SA</i> ₁₃₄		6 20.6	354°95	2°9/20.8	17
5 21	18 19.75	-26 43.8	2.010	2.902	11.4	21.0	5 21	18 19.64	-29 46.4	1.177	2.090	16.0	19.9
5 31	18 14.19	-27 9.6	1.928	2.886	8.1	20.8	5 31	18 14.92	-29 48.4	1.118	2.084	11.6	19.6
6 10	18 6.67	-27 33.6	1.871	2.870	4.5	20.5	6 10	18 7.31	-29 42.0	1.079	2.079	6.7	19.4
6 20	17 57.91	-27 53.5	1.840	2.854	1.6	20.3	6 20	17 57.97	-29 24.7	1.062	2.076	2.9	19.1
6 30	17 48.89	-28 7.5	1.836	2.839	4.2	20.5	6 30	17 48.53	-28 56.2	1.069	2.074	6.0	19.3
7 10	17 40.66	-28 15.6	1.859	2.824	8.0	20.7	7 10	17 40.65	-28 19.5	1.097	2.073	10.9	19.6
7 20	17 34.12	-28 18.6	1.905	2.809	11.5	20.8	7 20	17 35.54	-27 39.0	1.147	2.073	15.5	19.8
7 30	17 29.94	-28 18.4	1.973	2.795	14.6	21.0	7 30	17 33.90	-26 59.2	1.214	2.075	19.5	20.1
29552	Chern		6 20.6	245°85	0°5/20.6	18	251776	1999 <i>RZ</i> ₂₁		6 20.6	284°44	2°5/20.6	18
5 21	18 20.60	-21 7.7	2.123	3.011	11.0	18.1	5 21	18 22.89	-17 48.2	1.497	2.393	14.3	20.6
5 31	18 14.56	-21 24.4	2.048	3.004	7.8	17.9	5 31	18 16.91	-17 42.6	1.410	2.369	10.4	20.3
6 10	18 6.77	-21 43.1	1.998	2.997	4.2	17.7	6 10	18 8.36	-17 42.3	1.346	2.344	6.0	20.0
6 20	17 57.91	-22 2.5	1.974	2.990	0.5	17.4	6 20	17 58.04	-17 47.2	1.306	2.320	2.5	19.7
6 30	17 48.89	-22 21.3	1.979	2.983	3.7	17.6	6 30	17 47.22	-17 56.9	1.292	2.295	5.6	19.8
7 10	17 40.65	-22 39.1	2.011	2.976	7.5	17.8	7 10	17 37.31	-18 11.4	1.303	2.270	10.4	20.0
7 20	17 33.97	-22 56.0	2.068	2.969	10.9	18.0	7 20	17 29.51	-18 30.3	1.335	2.245	15.0	20.2
7 30	17 29.44	-23 12.4	2.146	2.961	13.8	18.2	7 30	17 24.73	-18 53.7	1.387	2.219	19.1	20.4
478729	2012 <i>UJ</i> ₆₅		6 20.6	289°21	2°1/20.5	18	80572	2000 <i>AZ</i> ₁₁₆		6 20.6	150°11	5°5/21.1	17
5 21	18 20.56	-18 42.5	1.806	2.698	12.4	21.1	5 21	18 23.05	- 7 30.5	1.927	2.790	13.1	19.8
5 31	18 14.81	-18 23.7	1.723	2.680	9.0	20.8	5 31	18 16.20	- 7 26.7	1.868	2.798	10.1	19.6
6 10	18 7.01	-18 7.4	1.663	2.661	5.1	20.6	6 10	18 7.59	- 7 35.7	1.832	2.807	7.2	19.5
6 20	17 57.93	-17 54.0	1.630	2.643	2.1	20.3	6 20	17 58.00	- 7 58.0	1.822	2.814	5.5	19.4
6 30	17 48.59	-17 44.2	1.623	2.624	4.8	20.5	6 30	17 48.38	- 8 33.0	1.839	2.821	6.6	19.5
7 10	17 40.10	-17 38.6	1.641	2.606	8.9	20.7	7 10	17 39.69	- 9 18.8	1.883	2.827	9.3	19.7
7 20	17 33.38	-17 37.9	1.684	2.588	12.8	20.8	7 20	17 32.71	-10 12.7	1.951	2.833	12.3	19.8
7 30	17 29.11	-17 42.3	1.746	2.569	16.1	21.0	7 30	17 27.96	-11 11.9	2.040	2.838	15.0	20.0
477708	2010 <i>RX</i> ₁₄₉		6 20.6	172°08	3°9/20.4	18	92611	2000 <i>PK</i> ₂₆		6 20.6	323°69	5°5/19.5	17
5 21	18 17.77	-10 54.3	2.567	3.435	10.0	21.5	5 21	18 19.96	-15 12.9	1.378	2.279	15.0	18.3
5 31	18 12.20	-10 29.0	2.500	3.437	7.6	21.3	5 31	18 14.72	-13 50.8	1.305	2.263	11.2	18.0
6 10	18 5.37	-10 10.6	2.458	3.438	5.2	21.2	6 10	18 7.09	-12 31.4	1.254	2.246	7.4	17.8
6 20	17 57.84	- 9 59.9	2.443	3.439	3.9	21.1	6 20	17 57.98	-11 19.6	1.227	2.231	5.5	17.6
6 30	17 50.27	- 9 57.8	2.456	3.440	5.0	21.2	6 30	17 48.66	-10 20.3	1.224	2.216	7.8	17.7
7 10	17 43.35	-10 3.9	2.496	3.441	7.4	21.3	7 10	17 40.45	- 9 37.0	1.245	2.202	11.9	17.9
7 20	17 37.64	-10 17.7	2.561	3.441	9.8	21.5	7 20	17 34.43	- 9 11.2	1.287	2.189	16.0	18.1
7 30	17 33.57	-10 38.1	2.649	3.441	12.1	21.6	7 30	17 31.31	- 9 2.1	1.346	2.176	19.6	18.3
479094	2013 <i>AY</i> ₁₁₉		6 20.6	149°24	2°5/20.8	17	63795	2001 <i>RL</i> ₂₁		6 20.6	297°47	1°1/20.6	18
5 21	18 22.14	-31 20.9	2.160	3.042	11.1	21.3	5 21	18 20.89	-25 59.5	1.929	2.821	11.8	19.7
5 31	18 15.60	-31 21.1	2.093	3.043	8.1	21.1	5 31	18 14.96	-26 11.6	1.856	2.813	8.4	19.5
6 10	18 7.27	-31 14.3	2.050	3.044	4.8	20.9	6 10	18 7.06	-26 21.4	1.806	2.806	4.5	19.2
6 20	17 57.95	-30 59.0	2.035	3.045	2.5	20.7	6 20	17 57.98	-26 27.2	1.783	2.798	1.1	19.0
6 30	17 48.63	-30 35.0	2.047	3.046	4.3	20.9	6 30	17 48.73	-26 28.1	1.786	2.790	4.1	19.2
7 10	17 40.30	-30 4.0	2.086	3.047	7.5	21.1	7 10	17 40.40	-26 24.4	1.816	2.783	8.0	19.4
7 20	17 33.74	-29 28.8	2.150	3.048	10.7	21.3	7 20	17 33.87	-26 17.7	1.870	2.775	11.6	19.6
7 30	17 29.47	-28 52.4	2.236	3.048	13.4	21.4	7 30	17 29.75	-26 9.8	1.946	2.768	14.7	19.8
419737	2010 <i>VZ</i> ₆₀		6 20.6	301°33	5°2/20.3	17	659						

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
35928	1999 <i>JV</i> ₁₀₇		6 20.6 251°20	3°0/20.2	18		155296	2005 <i>YJ</i>		6 20.6 238°87	9°9/19.6	18	R
5 21	18 24.56	-29 5.1	1.816	2.703	12.6	18.7	5 21	18 33.81	-58 7.0	2.818	3.576	12.1	20.2
5 31	18 17.84	-29 56.7	1.740	2.694	9.1	18.5	5 31	18 24.63	-59 13.9	2.749	3.564	11.0	20.1
6 10	18 8.73	-30 45.3	1.689	2.684	5.4	18.2	6 10	18 12.45	-60 2.0	2.701	3.553	10.2	20.1
6 20	17 58.09	-31 26.5	1.664	2.674	3.0	18.1	6 20	17 58.32	-60 25.7	2.676	3.541	9.9	20.0
6 30	17 47.10	-31 57.0	1.666	2.664	5.3	18.2	6 30	17 43.84	-60 22.2	2.674	3.529	10.3	20.0
7 10	17 37.08	-32 16.1	1.694	2.653	9.1	18.4	7 10	17 30.71	-59 52.6	2.695	3.516	11.2	20.1
7 20	17 29.10	-32 25.1	1.746	2.643	12.8	18.6	7 20	17 20.26	-59 1.4	2.737	3.503	12.4	20.1
7 30	17 23.94	-32 27.1	1.819	2.632	16.0	18.8	7 30	17 13.32	-57 54.8	2.798	3.490	13.6	20.2
6233	Kimura		6 20.6 148°00	0°1/20.6	18		143568	2003 <i>EX</i> ₅₂		6 20.6 356°60	1°0/20.5	18	
5 21	18 22.17	-23 44.2	2.330	3.213	10.4	18.9	5 21	18 20.85	-24 19.7	2.071	2.961	11.2	19.5
5 31	18 15.40	-23 32.1	2.267	3.221	7.3	18.7	5 31	18 14.83	-24 58.4	2.003	2.960	7.9	19.3
6 10	18 7.10	-23 18.4	2.230	3.229	3.8	18.5	6 10	18 6.98	-25 37.4	1.960	2.960	4.2	19.1
6 20	17 57.99	-23 2.8	2.220	3.237	0.2	18.2	6 20	17 58.02	-26 14.0	1.944	2.960	1.0	18.9
6 30	17 48.91	-22 45.6	2.240	3.244	3.4	18.5	6 30	17 48.91	-26 46.3	1.956	2.960	3.9	19.1
7 10	17 40.72	-22 27.9	2.287	3.250	6.8	18.8	7 10	17 40.64	-27 13.2	1.995	2.959	7.6	19.3
7 20	17 34.07	-22 10.8	2.360	3.256	9.9	19.0	7 20	17 34.02	-27 35.0	2.058	2.960	10.9	19.5
7 30	17 29.44	-21 55.8	2.456	3.262	12.5	19.2	7 30	17 29.66	-27 52.9	2.144	2.960	13.8	19.7
7178	Ikuookamoto		6 20.6 308°79	1°7/20.6	18		40935	1999 <i>TO</i> ₁₉₅		6 20.6 202°45	1°8/20.6	18	
5 21	18 22.57	-26 35.8	1.202	2.113	16.0	16.9	5 21	18 20.28	-29 12.3	2.625	3.505	9.5	19.9
5 31	18 17.27	-26 47.1	1.124	2.090	11.5	16.6	5 31	18 14.12	-29 25.1	2.552	3.502	6.8	19.8
6 10	18 8.78	-26 55.0	1.066	2.067	6.4	16.2	6 10	18 6.49	-29 33.9	2.505	3.500	3.9	19.6
6 20	17 58.10	-26 56.4	1.030	2.045	1.8	15.8	6 20	17 57.99	-29 37.1	2.485	3.497	1.8	19.4
6 30	17 46.84	-26 49.4	1.018	2.024	5.9	16.0	6 30	17 49.43	-29 34.1	2.494	3.494	3.6	19.5
7 10	17 36.85	-26 34.9	1.028	2.002	11.6	16.3	7 10	17 41.58	-29 25.5	2.530	3.490	6.5	19.7
7 20	17 29.63	-26 16.1	1.058	1.982	16.8	16.5	7 20	17 35.12	-29 12.6	2.593	3.487	9.2	19.9
7 30	17 26.19	-25 56.8	1.106	1.962	21.3	16.7	7 30	17 30.54	-28 57.3	2.678	3.483	11.6	20.1
153101	2000 <i>SW</i> ₁₅		6 20.6 332°76	5°3/20.2	18		290449	2005 <i>TJ</i> ₁₃₉		6 20.6 306°50	0°3/20.6	17	
5 21	18 18.82	-13 36.5	1.356	2.256	15.2	19.4	5 21	18 21.82	-22 12.8	1.479	2.381	14.1	21.1
5 31	18 13.93	-12 49.6	1.288	2.244	11.4	19.1	5 31	18 16.09	-22 23.1	1.407	2.369	10.0	20.9
6 10	18 6.68	-12 10.7	1.241	2.233	7.5	18.9	6 10	18 7.87	-22 35.1	1.356	2.358	5.4	20.6
6 20	17 57.98	-11 42.8	1.218	2.223	5.3	18.7	6 20	17 58.09	-22 47.0	1.331	2.347	0.4	20.2
6 30	17 49.07	-11 28.2	1.218	2.213	7.4	18.8	6 30	17 48.02	-22 57.6	1.330	2.336	4.8	20.5
7 10	17 41.28	-11 27.7	1.242	2.204	11.4	19.0	7 10	17 39.05	-23 6.6	1.354	2.325	9.7	20.7
7 20	17 35.64	-11 40.7	1.286	2.195	15.5	19.2	7 20	17 32.30	-23 14.9	1.401	2.315	14.1	21.0
7 30	17 32.89	-12 5.0	1.348	2.188	19.1	19.4	7 30	17 28.54	-23 23.5	1.467	2.305	17.9	21.2
324993	2008 <i>BQ</i> ₁₃		6 20.6 161°97	1°5/20.6	17		340512	2006 <i>JT</i> ₁₃		6 20.6 324°23	3°7/20.1	18	
5 21	18 26.06	-26 51.0	1.802	2.688	12.7	22.0	5 21	18 21.78	-29 21.4	1.543	2.442	13.8	19.7
5 31	18 18.61	-27 8.2	1.739	2.694	9.0	21.8	5 31	18 16.24	-30 21.6	1.469	2.427	10.1	19.4
6 10	18 8.98	-27 21.9	1.700	2.698	5.0	21.5	6 10	18 8.05	-31 19.3	1.417	2.413	6.1	19.1
6 20	17 58.11	-27 29.6	1.688	2.703	1.5	21.3	6 20	17 58.10	-32 9.2	1.390	2.399	3.7	19.0
6 30	17 47.19	-27 30.3	1.704	2.706	4.5	21.5	6 30	17 47.71	-32 47.1	1.388	2.386	6.1	19.1
7 10	17 37.43	-27 24.6	1.746	2.709	8.5	21.8	7 10	17 38.36	-33 11.6	1.411	2.374	10.2	19.3
7 20	17 29.78	-27 14.7	1.812	2.712	12.2	22.0	7 20	17 31.30	-33 24.0	1.455	2.362	14.2	19.5
7 30	17 24.85	-27 3.2	1.899	2.714	15.3	22.2	7 30	17 27.39	-33 27.6	1.519	2.351	17.7	19.7
390853	2004 <i>RO</i> ₁₉₄		6 20.6 341°50	7°6/19.7	17		478489	2012 <i>RY</i> ₂₁		6 20.6 296°20	1°3/20.6	16	
5 21	18 15.06	- 8 21.9	1.486	2.377	14.7	19.4	5 21	18 22.36	-26 48.7	1.713	2.607	12.9	21.7
5 31	18 11.14	- 7 17.6	1.414	2.358	11.6	19.1	5 31	18 16.18	-26 50.1	1.641	2.600	9.2	21.5
6 10	18 5.17	- 6 24.7	1.362	2.340	8.8	18.9	6 10	18 7.79	-26 47.6	1.593	2.593	5.0	21.2
6 20	17 57.90	- 5 47.9	1.334	2.323	7.6	18.8	6 20	17 58.08	-26 39.5	1.571	2.586	1.3	20.9
6 30	17 50.41	- 5 30.4	1.329	2.307	9.0	18.8	6 30	17 48.23	-26 25.5	1.575	2.580	4.5	21.1
7 10	17 43.83	- 5 33.0	1.346	2.293	12.1	19.0	7 10	17 39.47	-26 6.8	1.605	2.573	8.8	21.4
7 20	17 39.08	- 5 54.4	1.384	2.280	15.5	19.1	7 20	17 32.76	-25 45.9	1.658	2.566	12.7	21.6
7 30	17 36.88	- 6 31.3	1.439	2.269	18.6	19.3	7 30	17 28.77	-25 25.2	1.732	2.560	16.0	21.8
105934	2000 <i>SM</i> ₂₂₄		6 20.6 243°21	1°0/20.6	18	R	391668	2007 <i>YD</i> ₃₃		6 20.6 230°73	0°6/20.6	16	
5 21	18 20.39	-26 5.6	2.332	3.217	10.3	20.1	5 21	18 21.19	-25 8.2	2.185	3.072	10.8	21.7
5 31	18 14.35	-26 18.5	2.256	3.210	7.3	19.9	5 31	18 14.98	-25 13.4	2.111	3.066	7.6	21.5
6 10	18 6.66	-26 29.3	2.205	3.204	4.0	19.7	6 10	18 7.02	-25 16.7	2.061	3.061	4.1	21.3
6 20	17 57.99	-26 36.5	2.181	3.196	1.0	19.5	6 20	17 58.04	-25 16.9	2.039	3.055	0.7	21.0
6 30	17 49.19	-26 39.3	2.186	3.189	3.6	19.7	6 30	17 48.94	-25 13.6	2.044	3.048	3.7	21.2
7 10	17 41.15	-26 38.0	2.218	3.182	7.0	19.9	7 10	17 40.67	-25 7.2	2.077	3.042	7.3	21.4
7 20	17 34.59	-26 33.7	2.275	3.174	10.1	20.0	7 20	17 34.00	-24 59.0	2.135	3.035	10.6	21.6
7 30	17 30.09	-26 27.9	2.355	3.167	12.8	20.2	7 30	17 29.48	-24 50.5	2.215	3.029	13.5	21.8
379678	2011 <i>FG</i> ₂₄		6 20.6 261°88	2°8/20.5	17		235255	2003 <i>SR</i> ₃₂₃		6 20.6 113°10	6°2/20.9	18	
5 21	18 21.85	-16 37.7	1.805	2.693	12.7	20.7	5 21	18 26.95	-40 8.6	1.958	2.821	12.9	20.5
5 31	18 15.71	-16 22.9	1.724	2.678	9.2	20.4	5 31	18 19.33	-40 44.0	1.902	2.830	10.1	20.3
6 10	18 7.52	-16 12.9	1.667	2.662	5.4	20.2	6 10	18 9.39	-41 5.6	1.869	2.838	7.6	20.2
6 20	17 58.04	-16 8.0	1.636	2.647	2.8	20.0	6 20	17 58.17	-41 9.3	1.861	2.846	6.2	20.1
6 30	17 48.31	-16 8.5	1.631	2.631	5.1	20.1	6 30	17 46.98	-40 53.6	1.880	2.854	7.2	20.2
7 10	17 39.42	-16 14.8	1.653	2.615	9.1	20.3	7 10	17 37.15	-40 20.7	1.924	2.862	9.6	20.3
7 20	17 32.32	-16 26.6	1.698	2.598	12.9	20.5	7 20	17 29.63	-39 35.4	1.992	2.870	12.3	20.5
7 30	17 27.68	-16 43.7	1.763	2.581	16.2	20.7	7 30	17 25.03	-38 43.1	2.080	2.877	14.8	20.7
93381	2000 <												

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
333307	2000 <i>WB</i> ₁₅₆		6 20.6 286°51		0°9/20.7 18		202993	1999 <i>VP</i> ₁₃₅		6 20.6 190°07		1°6/20.5 18	
5 21	18 24.36	-27 4.5	1.775	2.665	12.7	20.0	5 21	18 21.35	-18 32.2	2.619	3.495	9.6	22.2
5 31	18 17.75	-26 44.3	1.680	2.636	9.2	19.7	5 31	18 14.77	-18 17.6	2.545	3.494	6.9	22.1
6 10	18 8.74	-26 17.9	1.607	2.607	5.0	19.4	6 10	18 6.81	-18 4.8	2.496	3.492	3.9	21.9
6 20	17 58.15	-25 44.2	1.561	2.577	1.0	19.1	6 20	17 58.07	-17 53.9	2.476	3.489	1.6	21.7
6 30	17 47.17	-25 3.6	1.542	2.547	4.5	19.3	6 30	17 49.27	-17 45.2	2.485	3.485	3.6	21.8
7 10	17 37.11	-24 18.6	1.550	2.517	9.1	19.5	7 10	17 41.15	-17 39.1	2.523	3.481	6.6	22.0
7 20	17 29.06	-23 32.6	1.581	2.486	13.4	19.6	7 20	17 34.34	-17 36.1	2.587	3.476	9.4	22.2
7 30	17 23.81	-22 49.3	1.633	2.455	17.1	19.8	7 30	17 29.29	-17 36.4	2.675	3.471	11.9	22.4
35080	1990 <i>QH</i> ₈		6 20.6 224°81		0°3/20.6 17		269580	2009 <i>WL</i> ₂₁₅		6 20.6 179°48		3°4/20.9 18	
5 21	18 25.91	-22 20.5	1.863	2.748	12.5	20.0	5 21	18 21.69	-11 50.8	2.409	3.276	10.7	21.1
5 31	18 18.61	-22 26.6	1.782	2.736	8.9	19.7	5 31	18 15.09	-11 56.2	2.339	3.278	7.9	20.9
6 10	18 9.09	-22 32.9	1.724	2.724	4.7	19.5	6 10	18 7.02	-12 9.1	2.293	3.279	5.1	20.7
6 20	17 58.17	-22 38.1	1.694	2.710	0.4	19.1	6 20	17 58.08	-12 29.5	2.276	3.279	3.4	20.6
6 30	17 46.98	-22 41.3	1.692	2.696	4.3	19.4	6 30	17 49.06	-12 56.8	2.287	3.279	4.7	20.7
7 10	17 36.71	-22 42.8	1.716	2.680	8.6	19.6	7 10	17 40.74	-13 29.8	2.327	3.278	7.4	20.8
7 20	17 28.36	-22 43.5	1.766	2.664	12.6	19.8	7 20	17 33.77	-14 7.4	2.392	3.277	10.2	21.0
7 30	17 22.63	-22 44.9	1.836	2.647	15.9	20.0	7 30	17 28.67	-14 48.2	2.480	3.275	12.7	21.2
427130	2014 <i>UY</i> ₁₀₂		6 20.6 283°58		1°0/20.6 16		151782	2003 <i>ES</i> ₅₃		6 20.6 40°47		8°8/21.8 18	
5 21	18 15.85	-19 29.1	3.099	3.980	8.1	21.8	5 21	18 20.06	-2 15.7	1.455	2.321	16.4	18.8
5 31	18 10.87	-19 30.8	3.012	3.965	5.8	21.6	5 31	18 14.46	-1 58.5	1.408	2.331	13.3	18.7
6 10	18 4.73	-19 34.3	2.951	3.949	3.2	21.4	6 10	18 6.82	-2 2.8	1.381	2.342	10.4	18.5
6 20	17 57.92	-19 39.2	2.919	3.933	1.0	21.3	6 20	17 58.07	-2 30.6	1.376	2.354	8.9	18.5
6 30	17 50.98	-19 45.3	2.915	3.917	2.9	21.4	6 30	17 49.34	-3 21.0	1.396	2.366	9.6	18.5
7 10	17 44.51	-19 52.7	2.939	3.901	5.6	21.5	7 10	17 41.78	-4 30.5	1.438	2.378	12.0	18.7
7 20	17 39.02	-20 1.2	2.990	3.886	8.1	21.7	7 20	17 36.23	-5 53.4	1.502	2.391	15.0	18.9
7 30	17 34.95	-20 11.1	3.065	3.870	10.3	21.8	7 30	17 33.27	-7 24.2	1.586	2.404	17.7	19.1
37535	1981 <i>DP</i>		6 20.6 36°22		4°2/20.2 18		152408	2005 <i>US</i> ₃₂₂		6 20.6 252°25		2°2/20.4 18	
5 21	18 22.55	-17 20.0	1.172	2.080	16.5	18.2	5 21	18 21.20	-28 36.5	2.351	3.233	10.3	20.2
5 31	18 16.56	-16 20.1	1.125	2.087	11.9	18.0	5 31	18 15.03	-29 16.9	2.275	3.227	7.4	20.0
6 10	18 8.01	-15 25.1	1.099	2.096	7.2	17.7	6 10	18 7.11	-29 54.5	2.225	3.220	4.3	19.8
6 20	17 58.10	-14 38.1	1.095	2.105	4.2	17.6	6 20	17 58.10	-30 26.7	2.202	3.213	2.2	19.6
6 30	17 48.32	-14 2.3	1.115	2.115	7.0	17.8	6 30	17 48.89	-30 51.4	2.208	3.206	4.1	19.7
7 10	17 40.13	-13 39.6	1.158	2.125	11.5	18.1	7 10	17 40.42	-31 8.3	2.241	3.199	7.3	19.9
7 20	17 34.53	-13 30.1	1.222	2.135	15.8	18.3	7 20	17 33.46	-31 18.1	2.299	3.192	10.3	20.1
7 30	17 32.09	-13 32.8	1.303	2.146	19.5	18.6	7 30	17 28.62	-31 22.7	2.379	3.185	12.9	20.3
93465	2000 <i>SY</i> ₃₆₉		6 20.6 322°41		4°0/20.9 18		332063	2005 <i>SL</i> ₇₀		6 20.6 278°50		4°4/20.5 18	
5 21	18 19.23	-13 51.1	1.359	2.259	15.2	19.3	5 21	18 25.10	-32 49.0	1.616	2.504	13.8	20.4
5 31	18 14.42	-13 56.9	1.282	2.240	11.2	19.0	5 31	18 18.52	-33 23.9	1.540	2.491	10.3	20.2
6 10	18 7.08	-14 14.6	1.226	2.221	7.0	18.7	6 10	18 9.24	-33 50.8	1.487	2.478	6.6	19.9
6 20	17 58.07	-14 44.2	1.193	2.203	4.0	18.5	6 20	17 58.24	-34 5.2	1.459	2.465	4.4	19.8
6 30	17 48.62	-15 24.8	1.185	2.186	6.3	18.6	6 30	17 46.90	-34 4.4	1.457	2.452	6.3	19.9
7 10	17 40.15	-16 14.2	1.200	2.169	10.9	18.8	7 10	17 36.75	-33 49.2	1.479	2.439	10.2	20.0
7 20	17 33.83	-17 9.6	1.236	2.153	15.4	19.0	7 20	17 28.99	-33 23.2	1.524	2.426	14.0	20.2
7 30	17 30.55	-18 8.5	1.291	2.139	19.4	19.2	7 30	17 24.43	-32 51.2	1.589	2.412	17.4	20.4
357519	2004 <i>RU</i> ₉₈		6 20.6 318°16		5°6/20.2 18		431026	2005 <i>YB</i> ₂₃₈		6 20.6 175°62		4°1/20.9 17	
5 21	18 17.30	-9 38.5	1.916	2.795	12.5	20.8	5 21	18 21.51	-9 50.0	2.414	3.276	10.8	22.3
5 31	18 12.38	-9 0.1	1.837	2.777	9.6	20.6	5 31	18 14.94	-9 46.5	2.345	3.279	8.2	22.1
6 10	18 5.72	-8 30.9	1.780	2.760	6.9	20.4	6 10	18 6.94	-9 51.7	2.302	3.281	5.6	21.9
6 20	17 57.99	-8 13.3	1.749	2.743	5.6	20.3	6 20	17 58.10	-10 5.9	2.285	3.283	4.1	21.8
6 30	17 50.05	-8 8.8	1.744	2.726	6.9	20.3	6 30	17 49.20	-10 28.8	2.298	3.284	5.2	21.9
7 10	17 42.85	-8 17.7	1.763	2.710	9.7	20.4	7 10	17 41.00	-10 59.4	2.338	3.284	7.7	22.1
7 20	17 37.16	-8 38.8	1.805	2.694	12.8	20.6	7 20	17 34.15	-11 36.3	2.404	3.283	10.4	22.2
7 30	17 33.61	-9 10.2	1.868	2.679	15.7	20.8	7 30	17 29.14	-12 18.0	2.492	3.282	12.8	22.4
155193	2005 <i>UH</i> ₃₇₇		6 20.6 156°43		2°4/20.6 18		243645	1999 <i>TE</i> ₁₃₇		6 20.6 259°12		2°9/20.5 18	
5 21	18 22.38	-17 10.7	1.873	2.759	12.4	20.8	5 21	18 20.92	-16 51.8	1.817	2.706	12.5	20.3
5 31	18 15.86	-17 0.5	1.810	2.763	8.9	20.6	5 31	18 14.93	-16 27.3	1.749	2.703	9.1	20.1
6 10	18 7.50	-16 54.6	1.771	2.767	5.1	20.4	6 10	18 7.07	-16 6.9	1.705	2.701	5.4	19.9
6 20	17 58.10	-16 53.1	1.759	2.771	2.4	20.2	6 20	17 58.11	-15 51.5	1.688	2.698	2.9	19.7
6 30	17 48.65	-16 56.0	1.773	2.774	4.7	20.4	6 30	17 49.07	-15 41.8	1.696	2.696	5.0	19.8
7 10	17 40.19	-17 3.3	1.815	2.777	8.4	20.6	7 10	17 40.99	-15 38.5	1.731	2.693	8.7	20.0
7 20	17 33.50	-17 14.8	1.880	2.779	11.9	20.8	7 20	17 34.68	-15 41.5	1.790	2.690	12.3	20.2
7 30	17 29.16	-17 30.2	1.966	2.781	14.9	21.0	7 30	17 30.73	-15 50.6	1.869	2.688	15.4	20.5
401494	2013 <i>DG</i> ₁₆		6 20.6 49°63		0°5/20.5 18		371599	2006 <i>WG</i> ₁₂₅		6 20.6 174°91		2°1/20.7 17	
5 21	18 21.42	-24 34.0	2.100	2.988	11.1	19.7	5 21	18 25.77	-29 0.5	1.956	2.839	12.1	21.5
5 31	18 14.95	-23 46.3	2.041	2.997	7.8	19.5	5 31	18 18.35	-29 11.0	1.889	2.841	8.7	21.2
6 10	18 6.90	-22 55.2	2.007	3.006	4.1	19.3	6 10	18 8.87	-29 16.0	1.847	2.843	4.9	21.0
6 20	17 58.06	-22 1.9	2.000	3.016	0.5	19.0	6 20	17 58.22	-29 13.3	1.832	2.845	2.1	20.8
6 30	17 49.36	-21 8.4	2.022	3.026	3.7	19.3	6 30	17 47.52	-29 2.4	1.844	2.846	4.4	21.0
7 10	17 41.67	-20 17.3	2.072	3.036	7.3	19.5	7 10	17 37.92	-28 44.3	1.884	2.846	8.2	21.2
7 20	17 35.67	-19 30.8	2.146	3.046	10.6	19.7	7 20	17 30.29	-28 21.7	1.948	2.846	11.6	21.4
7 30	17 31.80	-18 50.7	2.243	3.057	13.3	20.0	7 30	17 25.25	-27 57.7	2.034	2.845	14.6	21.6
235778	2004 <i>VA</i> ₇₄		6 20.6 218°44		2°1/20.5 18		21035	Iwabu					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
235771	2004 VC ₂₃		6 20.6 257°20	1°0/20.6 18			485137	2010 NY ₇₉		6 20.6 261°58	1°2/20.7 17		
5 21	18 22.80	-21 2.5	2.153	3.036	11.1	21.1	5 21	18 20.90	-27 39.3	2.771	3.649	9.1	23.2
5 31	18 16.25	-20 53.8	2.060	3.014	7.9	20.8	5 31	18 14.63	-27 40.0	2.675	3.625	6.5	23.0
6 10	18 7.82	-20 45.7	1.992	2.991	4.3	20.6	6 10	18 6.85	-27 37.2	2.604	3.601	3.6	22.8
6 20	17 58.17	-20 37.6	1.952	2.967	1.0	20.3	6 20	17 58.14	-27 29.8	2.562	3.577	1.2	22.6
6 30	17 48.24	-20 29.6	1.940	2.943	4.0	20.4	6 30	17 49.23	-27 17.5	2.549	3.552	3.3	22.7
7 10	17 39.01	-20 22.2	1.955	2.918	7.8	20.6	7 10	17 40.90	-27 0.8	2.565	3.526	6.3	22.9
7 20	17 31.33	-20 16.5	1.996	2.893	11.4	20.8	7 20	17 33.84	-26 41.3	2.607	3.500	9.2	23.0
7 30	17 25.87	-20 13.3	2.058	2.867	14.5	21.0	7 30	17 28.57	-26 20.6	2.673	3.474	11.7	23.2
215849	2005 EZ ₁₂		6 20.6 17°63	2°2/20.5 17			248616	2006 DC ₁₅₃		6 20.6 0°01	6°0/20.4 17		
5 21	18 21.49	-26 25.1	1.063	1.980	17.0	19.5	5 21	18 18.36	-14 1.7	0.989	1.906	17.9	19.1
5 31	18 16.34	-26 55.5	1.016	1.985	12.1	19.3	5 31	18 14.10	-13 12.6	0.938	1.903	13.4	18.8
6 10	18 8.15	-27 23.1	0.989	1.991	6.6	19.0	6 10	18 6.97	-12 34.4	0.906	1.901	8.7	18.6
6 20	17 58.18	-27 43.8	0.983	1.998	2.2	18.7	6 20	17 58.15	-12 10.8	0.894	1.901	6.0	18.4
6 30	17 48.20	-27 55.1	1.000	2.006	6.0	19.0	6 30	17 49.22	-12 4.0	0.903	1.901	8.4	18.6
7 10	17 39.95	-27 57.7	1.039	2.015	11.3	19.3	7 10	17 41.84	-12 14.2	0.932	1.903	13.0	18.8
7 20	17 34.66	-27 54.0	1.098	2.026	16.0	19.6	7 20	17 37.19	-12 39.2	0.981	1.906	17.6	19.1
7 30	17 33.03	-27 47.2	1.174	2.037	19.9	19.9	7 30	17 35.98	-13 15.6	1.045	1.911	21.6	19.4
25798	Reneeschaaf		6 20.6 324°95	0°8/20.6 18			62200	2000 SX ₅₃		6 20.6 138°71	0°8/20.6 18		
5 21	18 21.38	-25 26.7	1.817	2.711	12.3	18.3	5 21	18 22.70	-21 40.8	1.798	2.690	12.5	19.6
5 31	18 15.38	-25 32.7	1.749	2.707	8.7	18.1	5 31	18 16.21	-21 33.6	1.736	2.694	8.8	19.3
6 10	18 7.36	-25 36.5	1.704	2.704	4.7	17.8	6 10	18 7.75	-21 26.9	1.697	2.697	4.7	19.1
6 20	17 58.15	-25 36.6	1.685	2.701	0.9	17.5	6 20	17 58.19	-21 20.2	1.685	2.701	0.8	18.8
6 30	17 48.83	-25 32.4	1.694	2.698	4.2	17.8	6 30	17 48.60	-21 13.5	1.700	2.704	4.2	19.1
7 10	17 40.52	-25 24.6	1.728	2.696	8.3	18.0	7 10	17 40.08	-21 7.4	1.741	2.707	8.3	19.3
7 20	17 34.11	-25 14.8	1.786	2.693	12.0	18.2	7 20	17 33.46	-21 3.0	1.806	2.710	12.0	19.6
7 30	17 30.21	-25 4.9	1.865	2.691	15.1	18.4	7 30	17 29.32	-21 1.2	1.892	2.713	15.1	19.8
410723	2009 BU ₉₄		6 20.6 149°58	1°7/20.6 17			476060	2007 RA ₃₂₅		6 20.6 191°36	4°0/20.4 16		
5 21	18 25.67	-18 56.9	1.635	2.524	13.7	21.9	5 21	18 24.22	-34 29.7	2.324	3.195	10.9	21.9
5 31	18 18.39	-18 56.0	1.577	2.532	9.7	21.6	5 31	18 17.23	-35 11.9	2.254	3.194	8.1	21.8
6 10	18 8.93	-18 58.6	1.541	2.540	5.4	21.4	6 10	18 8.31	-35 46.7	2.210	3.193	5.5	21.6
6 20	17 58.25	-19 3.9	1.532	2.546	1.8	21.2	6 20	17 58.23	-36 10.8	2.192	3.191	4.0	21.5
6 30	17 47.54	-19 11.5	1.550	2.553	4.8	21.4	6 30	17 47.99	-36 22.1	2.202	3.189	5.3	21.6
7 10	17 38.05	-19 21.1	1.593	2.558	9.1	21.7	7 10	17 38.64	-36 21.0	2.239	3.186	7.9	21.7
7 20	17 30.68	-19 33.0	1.661	2.563	13.0	21.9	7 20	17 31.02	-36 9.8	2.301	3.183	10.7	21.9
7 30	17 26.05	-19 47.5	1.748	2.568	16.3	22.1	7 30	17 25.76	-35 51.7	2.385	3.180	13.2	22.1
389186	2009 BG ₁₇₃		6 20.6 357°95	0°8/20.6 17			290674	2005 UV ₃₃₇		6 20.6 6°18	0°5/20.6 16		
5 21	18 21.35	-25 5.1	1.940	2.831	11.8	21.5	5 21	18 18.95	-22 10.5	1.786	2.684	12.3	20.6
5 31	18 15.26	-25 19.9	1.873	2.831	8.3	21.3	5 31	18 13.63	-22 10.0	1.724	2.685	8.6	20.4
6 10	18 7.26	-25 33.3	1.831	2.830	4.5	21.1	6 10	18 6.41	-22 10.1	1.685	2.686	4.6	20.2
6 20	17 58.15	-25 43.4	1.815	2.830	0.9	20.8	6 20	17 58.12	-22 10.2	1.671	2.687	0.5	19.9
6 30	17 48.95	-25 49.4	1.826	2.830	4.0	21.0	6 30	17 49.76	-22 9.9	1.684	2.690	4.1	20.2
7 10	17 40.69	-25 51.4	1.864	2.830	7.9	21.3	7 10	17 42.40	-22 9.5	1.723	2.692	8.1	20.4
7 20	17 34.22	-25 50.6	1.926	2.830	11.4	21.5	7 20	17 36.83	-22 9.9	1.785	2.696	11.8	20.6
7 30	17 30.13	-25 48.5	2.009	2.831	14.4	21.7	7 30	17 33.65	-22 11.7	1.868	2.699	14.9	20.8
105783	2000 SM ₁₁₈		6 20.6 249°85	1°2/20.6 18			34820	2001 SC ₁₂₅		6 20.6 350°41	5°1/20.4 18		
5 21	18 20.70	-26 25.5	2.414	3.297	10.0	20.5	5 21	18 17.48	-15 48.8	0.906	1.831	18.4	18.2
5 31	18 14.61	-26 42.0	2.332	3.286	7.1	20.2	5 31	18 13.75	-15 8.8	0.852	1.822	13.6	17.9
6 10	18 6.87	-26 56.5	2.276	3.274	3.9	20.0	6 10	18 6.92	-14 38.0	0.816	1.815	8.4	17.6
6 20	17 58.13	-27 7.2	2.247	3.262	1.2	19.8	6 20	17 58.16	-14 19.5	0.799	1.810	5.1	17.4
6 30	17 49.21	-27 13.2	2.247	3.249	3.6	20.0	6 30	17 49.17	-14 15.5	0.803	1.805	8.0	17.6
7 10	17 40.99	-27 14.7	2.274	3.237	6.9	20.1	7 10	17 41.77	-14 26.1	0.826	1.803	13.3	17.8
7 20	17 34.20	-27 12.5	2.327	3.224	10.0	20.3	7 20	17 37.29	-14 49.9	0.867	1.802	18.4	18.1
7 30	17 29.42	-27 8.3	2.402	3.211	12.7	20.5	7 30	17 36.53	-15 23.7	0.924	1.802	22.7	18.4
411619	2011 UA ₈		6 20.6 261°45	1°1/20.6 14 C			31362	1998 VU ₄₁		6 20.6 341°72	1°9/20.7 18		
5 21	18 26.69	-25 25.2	1.500	2.395	14.4	23.0	5 21	18 22.04	-19 15.7	1.153	2.064	16.5	17.6
5 31	18 19.78	-25 38.7	1.415	2.374	10.3	22.7	5 31	18 16.63	-19 18.8	1.093	2.059	11.8	17.3
6 10	18 10.02	-25 50.4	1.353	2.353	5.6	22.4	6 10	18 8.34	-19 27.4	1.053	2.055	6.5	17.0
6 20	17 58.33	-25 57.3	1.316	2.331	1.1	22.0	6 20	17 58.25	-19 40.7	1.036	2.051	1.9	16.7
6 30	17 46.12	-25 57.6	1.304	2.309	5.2	22.2	6 30	17 47.95	-19 57.3	1.041	2.047	5.8	16.9
7 10	17 34.97	-25 51.8	1.318	2.286	10.3	22.5	7 10	17 39.06	-20 16.6	1.070	2.044	11.2	17.2
7 20	17 26.20	-25 42.1	1.355	2.262	15.0	22.7	7 20	17 32.85	-20 38.3	1.119	2.042	16.1	17.5
7 30	17 20.74	-25 31.6	1.410	2.238	19.0	22.9	7 30	17 30.10	-21 2.1	1.185	2.041	20.2	17.7
461478	2002 RQ ₂₃₉		6 20.6 325°74	5°0/20.8 17			313061	2000 SR ₅₉		6 20.6 227°11	0°5/20.6 17		
5 21	18 23.80	-33 39.9	1.269	2.170	16.0	20.4	5 21	18 25.40	-22 32.3	1.703	2.593	13.2	21.4
5 31	18 18.04	-33 58.8	1.201	2.158	12.0	20.1	5 31	18 18.38	-22 27.9	1.626	2.583	9.4	21.1
6 10	18 9.14	-34 6.0	1.154	2.147	7.7	19.8	6 10	18 9.06	-22 23.2	1.574	2.573	5.0	20.9
6 20	17 58.27	-33 56.7	1.129	2.136	5.0	19.6	6 20	17 58.30	-22 17.1	1.547	2.563	0.5	20.5
6 30	17 47.14	-33 29.3	1.128	2.126	7.1	19.7	6 30	17 47.32	-22 9.3	1.547	2.552	4.5	20.8
7 10	17 37.56	-32 46.4	1.149	2.117	11.5	19.9	7 10	17 37.38	-22 0.7	1.574	2.540	9.1	21.0
7 20	17 30.88	-31 53.9	1.191	2.108	15.9	20.2	7 20	17 29.51	-21 52.8	1.624	2.528	13.2	21.2
7 30	17 27.92	-30 58.3	1.252	2.100	19.8	20.4	7 30	17 24.43	-21 47.2	1.695	2.515	16.7	21.4
87616	2000 RR ₄₇		6 20.6 315°31	12°1/19.9 18			490715	2010 RE ₄₂		6 20.6 274°25	3°7/20.5 18		

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
441763	2009 CS ₄₁		6 20.6	45°60	5°2/21.1	16	479216	2013 CS ₁₆₀		6 20.6	192°37	4°4/20.7	18
5 21	18 19.50	- 8 59.4	1.786	2.662	13.3	21.4	5 21	18 23.60	-38 21.0	2.740	3.597	9.8	22.1
5 31	18 13.88	- 8 54.9	1.731	2.671	10.1	21.2	5 31	18 16.59	-38 45.5	2.668	3.596	7.6	22.0
6 10	18 6.51	- 9 2.9	1.699	2.680	7.0	21.0	6 10	18 7.91	-39 0.5	2.622	3.593	5.5	21.8
6 20	17 58.16	- 9 23.9	1.692	2.689	5.3	20.9	6 20	17 58.29	-39 3.6	2.602	3.591	4.4	21.7
6 30	17 49.80	- 9 57.2	1.711	2.699	6.4	21.0	6 30	17 48.59	-38 53.8	2.611	3.588	5.2	21.8
7 10	17 42.39	-10 40.9	1.755	2.708	9.3	21.2	7 10	17 39.72	-38 32.1	2.647	3.585	7.3	21.9
7 20	17 36.68	-11 32.3	1.823	2.718	12.4	21.4	7 20	17 32.43	-38 0.9	2.708	3.581	9.6	22.1
7 30	17 33.22	-12 28.7	1.912	2.728	15.2	21.6	7 30	17 27.22	-37 23.8	2.792	3.577	11.7	22.2
433030	2012 SV ₁₁		6 20.6	50°08	3°0/20.6	17	321329	2009 HB ₇₉		6 20.6	359°41	5°4/20.4	17
5 21	18 23.35	-30 32.4	1.737	2.627	13.0	21.0	5 21	18 20.94	-13 30.8	1.248	2.149	16.2	20.3
5 31	18 16.89	-30 56.3	1.677	2.631	9.4	20.7	5 31	18 15.54	-12 48.3	1.191	2.148	12.0	20.1
6 10	18 8.21	-31 13.8	1.640	2.635	5.6	20.5	6 10	18 7.64	-12 15.4	1.155	2.147	7.8	19.8
6 20	17 58.26	-31 21.8	1.629	2.639	3.1	20.4	6 20	17 58.28	-11 54.8	1.141	2.147	5.4	19.7
6 30	17 48.26	-31 19.2	1.644	2.644	5.1	20.5	6 30	17 48.83	-11 48.2	1.151	2.147	7.5	19.8
7 10	17 39.46	-31 6.9	1.685	2.648	8.8	20.7	7 10	17 40.70	-11 55.8	1.184	2.147	11.7	20.0
7 20	17 32.80	-30 47.8	1.750	2.653	12.4	21.0	7 20	17 34.94	-12 16.1	1.237	2.149	15.8	20.3
7 30	17 28.91	-30 25.2	1.834	2.658	15.5	21.2	7 30	17 32.24	-12 46.5	1.308	2.150	19.5	20.5
307114	2002 CO ₆₉		6 20.6	199°00	2°1/20.7	18	482406	2012 BD ₆₀		6 20.6	249°86	1°3/20.7	18
5 21	18 19.16	-16 2.1	2.443	3.322	10.1	20.8	5 21	18 19.42	-18 10.5	2.602	3.482	9.6	21.9
5 31	18 13.38	-16 6.0	2.372	3.321	7.3	20.6	5 31	18 13.61	-18 23.3	2.516	3.467	6.8	21.7
6 10	18 6.18	-16 14.6	2.325	3.319	4.3	20.4	6 10	18 6.36	-18 39.4	2.456	3.453	3.8	21.5
6 20	17 58.15	-16 27.6	2.306	3.317	2.1	20.3	6 20	17 58.20	-18 58.3	2.424	3.438	1.3	21.3
6 30	17 50.02	-16 44.5	2.315	3.314	3.9	20.4	6 30	17 49.86	-19 19.2	2.420	3.422	3.4	21.4
7 10	17 42.57	-17 4.7	2.352	3.312	6.9	20.6	7 10	17 42.07	-19 41.5	2.445	3.407	6.5	21.6
7 20	17 36.41	-17 27.7	2.414	3.309	9.8	20.8	7 20	17 35.50	-20 4.7	2.496	3.391	9.5	21.8
7 30	17 32.05	-17 52.9	2.500	3.306	12.3	20.9	7 30	17 30.66	-20 28.8	2.570	3.375	12.1	21.9
47271	1999 VY ₁₄₃		6 20.6	24°00	5°6/20.4	18 R	253804	2003 XE ₃₈		6 20.6	198°14	1°4/20.6	17
5 21	18 25.08	-33 18.5	1.255	2.155	16.2	17.6	5 21	18 25.43	-26 21.3	1.686	2.577	13.2	21.0
5 31	18 18.87	-34 14.5	1.204	2.159	12.1	17.4	5 31	18 18.44	-26 36.8	1.618	2.575	9.4	20.7
6 10	18 9.54	-35 0.5	1.173	2.164	7.9	17.2	6 10	18 9.10	-26 49.4	1.574	2.573	5.2	20.5
6 20	17 58.36	-35 30.3	1.165	2.169	5.6	17.1	6 20	17 58.37	-26 56.5	1.556	2.571	1.4	20.2
6 30	17 47.07	-35 40.2	1.181	2.175	7.6	17.2	6 30	17 47.49	-26 57.0	1.564	2.568	4.6	20.4
7 10	17 37.47	-35 31.7	1.219	2.181	11.6	17.4	7 10	17 37.77	-26 51.5	1.598	2.565	9.0	20.7
7 20	17 30.84	-35 9.5	1.278	2.188	15.6	17.7	7 20	17 30.22	-26 42.0	1.656	2.561	12.9	20.9
7 30	17 27.92	-34 39.4	1.356	2.195	19.1	17.9	7 30	17 25.52	-26 31.2	1.735	2.557	16.3	21.1
391963	2008 WE ₁₀₁		6 20.6	173°95	1°2/20.5	18	315229	2007 RW ₂₀₆		6 20.6	185°14	0°2/20.6	17
5 21	18 22.92	-25 21.2	2.103	2.988	11.2	21.2	5 21	18 26.19	-23 29.3	1.839	2.725	12.6	22.0
5 31	18 16.31	-25 53.9	2.035	2.990	7.9	21.0	5 31	18 18.77	-23 41.8	1.770	2.725	8.9	21.8
6 10	18 7.84	-26 25.6	1.993	2.991	4.3	20.8	6 10	18 9.21	-23 53.7	1.725	2.725	4.7	21.6
6 20	17 58.26	-26 53.8	1.977	2.992	1.2	20.5	6 20	17 58.37	-24 3.2	1.708	2.724	0.4	21.2
6 30	17 48.55	-27 16.6	1.990	2.993	3.9	20.7	6 30	17 47.41	-24 9.3	1.718	2.722	4.2	21.5
7 10	17 39.71	-27 33.7	2.030	2.993	7.6	21.0	7 10	17 37.51	-24 12.1	1.755	2.720	8.4	21.8
7 20	17 32.57	-27 45.8	2.095	2.993	10.9	21.2	7 20	17 29.59	-24 13.0	1.817	2.716	12.2	22.0
7 30	17 27.72	-27 54.4	2.182	2.993	13.7	21.4	7 30	17 24.31	-24 13.5	1.899	2.712	15.4	22.2
85809	1998 WU ₁₂		6 20.6	306°11	5°3/20.1	18	438197	2005 UL ₆₀		6 20.6	268°12	4°8/19.8	16
5 21	18 23.54	-34 8.5	1.690	2.577	13.4	18.9	5 21	18 19.24	-10 21.2	2.451	3.318	10.5	21.7
5 31	18 17.57	-35 6.1	1.607	2.554	10.2	18.6	5 31	18 13.48	- 9 27.1	2.364	3.298	8.1	21.5
6 10	18 8.89	-35 57.0	1.546	2.533	7.0	18.4	6 10	18 6.28	- 8 38.7	2.302	3.278	5.8	21.4
6 20	17 58.35	-36 35.4	1.511	2.511	5.3	18.2	6 20	17 58.20	- 7 58.1	2.268	3.258	4.8	21.3
6 30	17 47.28	-36 57.3	1.501	2.489	7.0	18.3	6 30	17 49.95	- 7 27.6	2.261	3.238	6.0	21.3
7 10	17 37.18	-37 2.0	1.515	2.468	10.5	18.4	7 10	17 42.30	- 7 8.0	2.281	3.217	8.4	21.4
7 20	17 29.33	-36 52.2	1.552	2.447	14.2	18.6	7 20	17 35.89	- 6 59.7	2.326	3.197	11.0	21.5
7 30	17 24.66	-36 32.2	1.608	2.427	17.5	18.8	7 30	17 31.24	- 7 1.7	2.392	3.175	13.5	21.7
274395	2008 RY ₁₁₃		6 20.6	1°89	1°1/20.7	17	268434	2005 VG ₄₃		6 20.6	196°76	1°9/20.8	18
5 21	18 21.05	-25 49.7	1.356	2.263	14.7	20.6	5 21	18 23.03	-17 13.7	1.884	2.769	12.4	20.7
5 31	18 15.65	-25 54.3	1.297	2.262	10.5	20.3	5 31	18 16.48	-17 27.6	1.814	2.767	8.9	20.5
6 10	18 7.70	-25 56.0	1.260	2.261	5.7	20.0	6 10	18 7.98	-17 46.9	1.768	2.765	5.0	20.3
6 20	17 58.27	-25 52.9	1.246	2.262	1.1	19.7	6 20	17 58.31	-18 10.6	1.749	2.763	2.0	20.1
6 30	17 48.75	-25 44.4	1.257	2.263	5.0	20.0	6 30	17 48.47	-18 37.5	1.757	2.760	4.4	20.2
7 10	17 40.59	-25 31.7	1.291	2.264	9.9	20.3	7 10	17 39.54	-19 6.5	1.793	2.756	8.3	20.4
7 20	17 34.84	-25 17.2	1.347	2.267	14.2	20.5	7 20	17 32.37	-19 36.8	1.852	2.753	12.0	20.7
7 30	17 32.19	-25 3.3	1.422	2.270	17.9	20.8	7 30	17 27.59	-20 8.1	1.933	2.749	15.1	20.9
178244	2006 YY ₄₅		6 20.6	21°82	0°5/20.6	18	384572	2010 GO ₁₅₇		6 20.6	104°17	4°4/20.7	17
5 21	18 20.32	-23 29.0	1.992	2.883	11.5	19.7	5 21	18 20.55	-11 12.5	2.002	2.877	12.2	21.2
5 31	18 14.52	-23 54.7	1.927	2.885	8.1	19.5	5 31	18 14.46	-10 53.0	1.947	2.888	9.1	21.1
6 10	18 6.90	-24 20.8	1.887	2.888	4.3	19.3	6 10	18 6.78	-10 42.3	1.916	2.899	6.1	20.9
6 20	17 58.22	-24 45.4	1.874	2.890	0.5	19.0	6 20	17 58.23	-10 41.3	1.910	2.910	4.4	20.8
6 30	17 49.44	-25 6.9	1.888	2.893	3.8	19.2	6 30	17 49.71	-10 50.2	1.932	2.921	5.7	20.9
7 10	17 41.55	-25 24.8	1.929	2.896	7.6	19.5	7 10	17 42.09	-11 8.4	1.980	2.931	8.6	21.1
7 20	17 35.34	-25 39.5	1.994	2.899	11.0	19.7	7 20	17 36.06	-11 34.4	2.052	2.941	11.5	21.3
7 30	17 31.41	-25 52.0	2.080	2.902	13.9	19.9	7 30	17 32.11	-12 6.6	2.146	2.951	14.1	21.5
439270	2012 UG ₁₉		6 20.6	98°74	8°4/19.9	17	244726	2003 QG ₁₀₇		6 20.6	321°78	0°9/20.7	18

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
354724	2005 <i>SX</i> ₁₅₅		6 20.6 145°63	4°3/20.6	18		103506	2000 <i>BD</i> ₁		6 20.6 165°52	16°2/21.8	18	
5 21	18 22.77	-35 51.6	2.293	3.165	11.0	21.2	5 21	18 27.17	+17 23.5	1.722	2.462	19.3	19.9
5 31	18 16.22	-36 22.6	2.227	3.166	8.3	21.0	5 31	18 19.36	+18 42.6	1.677	2.471	17.8	19.8
6 10	18 7.80	-36 44.9	2.186	3.167	5.7	20.9	6 10	18 9.49	+19 29.0	1.650	2.478	16.7	19.8
6 20	17 58.30	-36 55.5	2.171	3.168	4.3	20.8	6 20	17 58.45	+19 37.0	1.642	2.483	16.2	19.7
6 30	17 48.72	-36 53.1	2.184	3.169	5.4	20.8	6 30	17 47.40	+19 4.6	1.653	2.488	16.5	19.8
7 10	17 40.09	-36 38.5	2.223	3.170	7.9	21.0	7 10	17 37.51	+17 54.7	1.685	2.491	17.4	19.8
7 20	17 33.22	-36 14.4	2.286	3.172	10.6	21.2	7 20	17 29.64	+16 14.0	1.734	2.493	18.7	19.9
7 30	17 28.68	-35 44.4	2.372	3.173	13.1	21.3	7 30	17 24.39	+14 11.0	1.800	2.494	20.1	20.1
36092	1999 <i>RS</i> ₁₀₂		6 20.6 298°74	0°0/20.6	18 R		153152	2000 <i>SE</i> ₂₇₆		6 20.6 325°08	4°3/20.1	18	
5 21	18 20.38	-24 38.4	2.110	2.999	11.0	18.4	5 21	18 22.52	-30 17.6	1.409	2.310	14.7	19.0
5 31	18 14.49	-24 17.3	2.033	2.990	7.8	18.2	5 31	18 17.06	-31 19.7	1.337	2.296	10.8	18.7
6 10	18 6.87	-23 53.4	1.981	2.981	4.2	17.9	6 10	18 8.71	-32 18.2	1.287	2.282	6.8	18.4
6 20	17 58.25	-23 26.6	1.956	2.972	0.3	17.6	6 20	17 58.41	-33 7.2	1.261	2.269	4.3	18.3
6 30	17 49.54	-22 57.7	1.958	2.963	3.7	17.9	6 30	17 47.64	-33 41.8	1.259	2.256	6.7	18.4
7 10	17 41.69	-22 28.2	1.987	2.954	7.5	18.1	7 10	17 38.03	-34 1.0	1.281	2.244	11.0	18.6
7 20	17 35.44	-22 0.0	2.042	2.945	10.9	18.3	7 20	17 30.94	-34 6.6	1.324	2.233	15.2	18.8
7 30	17 31.36	-21 34.8	2.118	2.936	13.8	18.5	7 30	17 27.30	-34 2.6	1.385	2.222	18.8	19.0
310512	2000 <i>WL</i> ₁₄₈		6 20.6 192°83	1°5/20.8	18		272645	2005 <i>WK</i> ₁₁₅		6 20.6 258°49	0°1/20.6	16	
5 21	18 19.63	-16 45.2	2.865	3.738	9.0	21.5	5 21	18 19.75	-23 52.2	2.522	3.406	9.7	21.8
5 31	18 13.60	-17 7.6	2.789	3.736	6.4	21.3	5 31	18 13.90	-23 49.8	2.438	3.392	6.8	21.6
6 10	18 6.29	-17 34.1	2.739	3.734	3.6	21.1	6 10	18 6.54	-23 46.3	2.379	3.378	3.6	21.4
6 20	17 58.23	-18 3.7	2.719	3.731	1.5	20.9	6 20	17 58.27	-23 41.0	2.347	3.364	0.2	21.0
6 30	17 50.05	-18 35.6	2.727	3.728	3.2	21.1	6 30	17 49.86	-23 33.7	2.345	3.349	3.2	21.3
7 10	17 42.42	-19 8.6	2.765	3.725	6.0	21.2	7 10	17 42.09	-23 25.0	2.370	3.334	6.6	21.5
7 20	17 35.91	-19 42.2	2.830	3.721	8.6	21.4	7 20	17 35.65	-23 15.8	2.421	3.319	9.6	21.7
7 30	17 30.98	-20 15.8	2.918	3.717	10.9	21.6	7 30	17 31.06	-23 7.2	2.494	3.304	12.3	21.8
111655	2002 <i>AR</i> ₁₈₅		6 20.6 258°08	4°2/20.6	18		503201	2015 <i>HF</i> ₁₆		6 20.7 123°66	2°4/21.0	17	
5 21	18 27.11	-31 59.5	1.462	2.354	14.9	19.9	5 21	18 23.91	-14 41.9	1.869	2.748	12.7	20.7
5 31	18 20.17	-32 30.2	1.389	2.343	11.0	19.6	5 31	18 17.02	-15 13.8	1.810	2.759	9.2	20.5
6 10	18 10.28	-32 52.7	1.339	2.332	6.9	19.4	6 10	18 8.24	-15 53.8	1.776	2.770	5.3	20.3
6 20	17 58.48	-33 2.1	1.312	2.320	4.2	19.2	6 20	17 58.38	-16 40.1	1.768	2.780	2.5	20.1
6 30	17 46.35	-32 56.0	1.311	2.308	6.4	19.3	6 30	17 48.45	-17 30.5	1.789	2.790	4.6	20.3
7 10	17 35.56	-32 35.4	1.334	2.296	10.7	19.5	7 10	17 39.51	-18 22.7	1.837	2.800	8.3	20.5
7 20	17 27.42	-32 4.7	1.379	2.284	14.9	19.7	7 20	17 32.36	-19 14.9	1.910	2.809	11.7	20.8
7 30	17 22.78	-31 29.3	1.443	2.272	18.6	19.9	7 30	17 27.58	-20 6.0	2.004	2.818	14.7	21.0
106176	2000 <i>UQ</i> ₅		6 20.6 232°30	2°1/20.4	18		148752	2001 <i>TS</i> ₁₈₀		6 20.7 75°69	0°4/20.6	17	
5 21	18 21.64	-28 32.7	2.513	3.393	9.8	19.9	5 21	18 24.27	-23 12.3	1.565	2.461	13.8	19.5
5 31	18 15.32	-29 12.4	2.435	3.385	7.1	19.7	5 31	18 17.42	-22 58.1	1.518	2.477	9.7	19.3
6 10	18 7.33	-29 49.5	2.382	3.377	4.1	19.5	6 10	18 8.45	-22 42.8	1.493	2.493	5.1	19.1
6 20	17 58.30	-30 21.4	2.357	3.368	2.1	19.3	6 20	17 58.38	-22 26.0	1.494	2.510	0.5	18.8
6 30	17 49.06	-30 46.3	2.361	3.359	3.9	19.5	6 30	17 48.49	-22 8.3	1.521	2.526	4.5	19.1
7 10	17 40.48	-31 3.8	2.393	3.350	6.9	19.6	7 10	17 39.95	-21 51.2	1.573	2.542	8.9	19.4
7 20	17 33.33	-31 14.4	2.450	3.341	9.8	19.8	7 20	17 33.62	-21 36.2	1.649	2.558	12.7	19.7
7 30	17 28.18	-31 20.0	2.530	3.332	12.3	20.0	7 30	17 30.02	-21 24.8	1.746	2.574	15.9	19.9
193581	2001 <i>BW</i> ₉		6 20.6 271°74	5°7/21.2	18		76185	2000 <i>EQ</i> ₃₉		6 20.7 307°94	1°4/20.7	18	
5 21	18 22.25	- 6 40.0	2.023	2.882	12.7	21.0	5 21	18 20.41	-19 44.6	1.861	2.753	12.1	18.8
5 31	18 16.01	- 6 42.4	1.928	2.856	10.0	20.8	5 31	18 14.69	-19 42.7	1.791	2.748	8.6	18.6
6 10	18 7.83	- 6 58.4	1.856	2.829	7.3	20.5	6 10	18 7.07	-19 43.4	1.743	2.742	4.7	18.3
6 20	17 58.34	- 7 29.3	1.811	2.802	5.7	20.4	6 20	17 58.32	-19 46.3	1.722	2.737	1.4	18.1
6 30	17 48.44	- 8 14.9	1.792	2.774	6.8	20.4	6 30	17 49.42	-19 51.0	1.728	2.732	4.2	18.2
7 10	17 39.11	- 9 13.4	1.800	2.745	9.7	20.5	7 10	17 41.43	-19 57.6	1.760	2.727	8.2	18.5
7 20	17 31.25	-10 21.9	1.833	2.716	12.9	20.6	7 20	17 35.17	-20 6.2	1.816	2.722	11.9	18.7
7 30	17 25.59	-11 37.3	1.887	2.686	16.0	20.8	7 30	17 31.26	-20 17.2	1.893	2.717	15.0	18.9
343263	2009 <i>YU</i> ₂₁		6 20.6 132°96	4°4/21.0	17		370455	2002 <i>YS</i> ₃₆		6 20.7 254°91	0°5/20.6	17	
5 21	18 26.77	-36 16.8	2.054	2.923	12.1	21.1	5 21	18 24.83	-23 37.1	1.843	2.730	12.4	22.0
5 31	18 19.05	-36 31.0	1.995	2.933	9.1	20.9	5 31	18 18.08	-23 59.5	1.756	2.711	8.9	21.7
6 10	18 9.29	-36 34.1	1.961	2.943	6.2	20.8	6 10	18 9.02	-24 22.5	1.692	2.692	4.8	21.4
6 20	17 58.42	-36 23.3	1.953	2.952	4.4	20.7	6 20	17 58.45	-24 43.6	1.656	2.672	0.6	21.0
6 30	17 47.65	-35 58.2	1.972	2.961	5.6	20.8	6 30	17 47.46	-25 1.2	1.647	2.651	4.3	21.3
7 10	17 38.12	-35 21.1	2.018	2.969	8.4	21.0	7 10	17 37.30	-25 14.6	1.664	2.630	8.7	21.5
7 20	17 30.68	-34 35.8	2.089	2.977	11.4	21.2	7 20	17 29.02	-25 24.5	1.706	2.608	12.8	21.7
7 30	17 25.88	-33 46.9	2.181	2.985	14.0	21.4	7 30	17 23.41	-25 32.6	1.769	2.585	16.2	21.9
230365	2002 <i>EX</i> ₁₀₁		6 20.6 224°31	5°8/21.2	18		67458	2000 <i>QB</i> ₁₈₁		6 20.7 227°72	2°1/20.7	18	
5 21	18 21.41	- 6 12.9	2.025	2.884	12.7	20.2	5 21	18 26.78	-28 49.6	1.746	2.633	13.1	19.5
5 31	18 15.23	- 6 9.8	1.951	2.877	10.0	20.0	5 31	18 19.46	-28 57.9	1.669	2.623	9.4	19.2
6 10	18 7.30	- 6 20.2	1.900	2.870	7.3	19.8	6 10	18 9.72	-29 0.5	1.616	2.613	5.4	19.0
6 20	17 58.31	- 6 44.9	1.874	2.862	5.9	19.7	6 20	17 58.49	-28 54.7	1.589	2.602	2.2	18.7
6 30	17 49.14	- 7 23.7	1.876	2.854	6.8	19.8	6 30	17 47.03	-28 39.7	1.588	2.591	4.8	18.9
7 10	17 40.72	- 8 14.8	1.903	2.846	9.4	19.9	7 10	17 36.70	-28 16.9	1.615	2.579	9.1	19.1
7 20	17 33.82	- 9 15.4	1.956	2.837	12.3	20.1	7 20	17 28.54	-27 49.2	1.665	2.566	13.0	19.3
7 30	17 29.04	-10 22.4	2.029	2.828	15.0	20.2	7 30	17 23.30	-27 20.4	1.735	2.553	16.4	19.5
96380	1998 <i>BG</i> ₁		6 20.6 195°55	0°7/20.6	18								

EPHEMERIDES

6 20.7

6 20.7

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
33464	Melahudock		6 20.7 184°52	2°3/20.7	18		494360	2016 <i>UO</i> ₁		6 20.7 253°85	1°2/20.5	16	
5 21	18 27.70	-28 54.5	1.712	2.598	13.3	18.9	5 21	18 20.30	-20 53.2	2.286	3.171	10.5	21.5
5 31	18 20.05	-29 11.2	1.645	2.598	9.6	18.7	5 31	18 14.35	-20 30.1	2.207	3.161	7.4	21.3
6 10	18 10.00	-29 22.3	1.602	2.598	5.5	18.4	6 10	18 6.81	-20 7.2	2.154	3.152	4.1	21.0
6 20	17 58.52	-29 24.8	1.585	2.597	2.4	18.2	6 20	17 58.36	-19 44.5	2.128	3.142	1.2	20.8
6 30	17 46.93	-29 17.6	1.595	2.596	4.9	18.4	6 30	17 49.80	-19 23.0	2.130	3.132	3.7	21.0
7 10	17 36.58	-29 1.9	1.631	2.594	9.1	18.6	7 10	17 41.99	-19 3.7	2.159	3.123	7.2	21.2
7 20	17 28.50	-28 40.6	1.691	2.591	12.9	18.9	7 20	17 35.63	-18 47.5	2.214	3.112	10.4	21.4
7 30	17 23.37	-28 17.3	1.772	2.588	16.2	19.1	7 30	17 31.24	-18 35.4	2.291	3.102	13.2	21.5
318534	2005 <i>EX</i> ₂₆₉		6 20.7 112°71	4°2/20.8	17		410135	2007 <i>GU</i> ₆₇		6 20.7 10°96	3°0/20.6	17	
5 21	18 24.60	-12 57.4	1.635	2.517	14.1	21.3	5 21	18 21.04	-27 42.4	0.899	1.824	18.5	20.4
5 31	18 17.55	-12 42.3	1.586	2.533	10.4	21.1	5 31	18 16.53	-28 13.1	0.853	1.825	13.3	20.1
6 10	18 8.51	-12 36.4	1.559	2.549	6.6	20.9	6 10	18 8.53	-28 38.8	0.826	1.828	7.5	19.8
6 20	17 58.43	-12 40.0	1.559	2.564	4.3	20.8	6 20	17 58.47	-28 54.7	0.819	1.833	3.1	19.6
6 30	17 48.43	-12 53.1	1.584	2.579	6.0	20.9	6 30	17 48.34	-28 58.4	0.832	1.838	6.8	19.8
7 10	17 39.63	-13 14.7	1.636	2.593	9.5	21.2	7 10	17 40.17	-28 51.0	0.866	1.846	12.4	20.2
7 20	17 32.87	-13 43.3	1.710	2.607	13.0	21.4	7 20	17 35.36	-28 36.4	0.918	1.854	17.5	20.5
7 30	17 28.67	-14 17.1	1.805	2.620	16.0	21.6	7 30	17 34.60	-28 18.8	0.987	1.864	21.8	20.8
136197	Johndrews		6 20.7 342°90	2°7/20.5	17		668	Dora		6 20.7 322°82	4°3/20.2	18	
5 21	18 18.58	-19 23.6	1.043	1.963	17.0	19.7	5 21	18 18.68	-15 26.8	1.513	2.412	14.0	15.6
5 31	18 14.44	-18 57.5	0.981	1.951	12.2	19.3	5 31	18 13.90	-14 44.0	1.432	2.389	10.4	15.3
6 10	18 7.34	-18 35.2	0.938	1.941	6.9	19.0	6 10	18 6.87	-14 6.0	1.373	2.367	6.6	15.1
6 20	17 58.37	-18 17.8	0.917	1.931	2.7	18.7	6 20	17 58.38	-13 35.3	1.338	2.346	4.3	14.9
6 30	17 49.13	-18 6.6	0.917	1.923	6.4	18.9	6 30	17 49.57	-13 14.0	1.328	2.325	6.5	14.9
7 10	17 41.33	-18 2.7	0.939	1.916	12.0	19.2	7 10	17 41.67	-13 3.6	1.341	2.305	10.6	15.1
7 20	17 36.25	-18 6.5	0.980	1.911	17.1	19.5	7 20	17 35.72	-13 4.5	1.376	2.285	14.7	15.3
7 30	17 34.73	-18 17.7	1.037	1.907	21.4	19.7	7 30	17 32.49	-13 15.8	1.430	2.267	18.4	15.5
412133	2013 <i>GP</i> ₄₉		6 20.7 18°86	5°0/20.5	17		26987	1997 <i>WP</i> ₁		6 20.7 265°19	0°1/20.7	18	
5 21	18 22.86	-14 27.1	1.225	2.126	16.4	20.9	5 21	18 21.13	-23 18.8	2.047	2.936	11.3	18.9
5 31	18 16.95	-13 47.8	1.169	2.127	12.1	20.6	5 31	18 15.14	-23 18.5	1.971	2.928	8.0	18.7
6 10	18 8.45	-13 17.2	1.134	2.128	7.7	20.4	6 10	18 7.32	-23 17.6	1.920	2.920	4.3	18.4
6 20	17 58.44	-12 57.7	1.122	2.130	5.0	20.2	6 20	17 58.41	-23 15.2	1.895	2.911	0.3	18.1
6 30	17 48.37	-12 50.9	1.134	2.132	7.3	20.3	6 30	17 49.36	-23 11.0	1.898	2.903	3.8	18.4
7 10	17 39.70	-12 56.9	1.169	2.134	11.7	20.6	7 10	17 41.14	-23 5.5	1.927	2.894	7.6	18.6
7 20	17 33.52	-13 14.4	1.224	2.136	16.0	20.9	7 20	17 34.57	-22 59.8	1.982	2.885	11.2	18.8
7 30	17 30.50	-13 41.5	1.297	2.139	19.6	21.1	7 30	17 30.24	-22 55.0	2.057	2.877	14.2	19.0
50536	2000 <i>EK</i> ₁₃		6 20.7 102°27	0°8/20.6	18		296408	2009 <i>GV</i> ₄		6 20.7 65°06	14°4/16.9	18	
5 21	18 26.02	-23 47.6	1.283	2.186	15.7	18.6	5 21	18 26.94	-4 1.2	0.975	1.861	20.9	19.7
5 31	18 19.31	-24 15.8	1.227	2.190	11.1	18.3	5 31	18 19.94	-0 49.1	0.938	1.868	17.5	19.5
6 10	18 9.77	-24 44.5	1.192	2.193	6.0	18.1	6 10	18 10.03	+ 2 2.1	0.920	1.876	15.0	19.4
6 20	17 58.53	-25 10.1	1.181	2.197	0.9	17.7	6 20	17 58.58	+ 4 17.8	0.923	1.883	14.6	19.4
6 30	17 47.16	-25 30.2	1.195	2.200	5.3	18.0	6 30	17 47.31	+ 5 48.2	0.947	1.891	16.3	19.5
7 10	17 37.28	-25 44.4	1.232	2.204	10.5	18.3	7 10	17 37.89	+ 6 31.5	0.990	1.899	19.1	19.7
7 20	17 30.09	-25 54.1	1.292	2.207	15.0	18.6	7 20	17 31.42	+ 6 32.8	1.048	1.906	22.2	20.0
7 30	17 26.32	-26 1.5	1.370	2.210	18.8	18.9	7 30	17 28.51	+ 6 1.2	1.120	1.914	24.9	20.2
338659	2003 <i>SS</i> ₃₄₂		6 20.7 2°87	10°6/20.5	18		215856	2005 <i>ER</i> ₄₇		6 20.7 69°52	1°7/20.7	17	
5 21	18 17.59	-1 23.5	1.393	2.262	16.8	19.9	5 21	18 25.68	-26 44.2	1.348	2.249	15.2	20.4
5 31	18 12.96	-0 19.9	1.340	2.261	14.0	19.7	5 31	18 18.86	-27 1.4	1.299	2.260	10.8	20.1
6 10	18 6.24	+ 0 22.5	1.307	2.261	11.6	19.6	6 10	18 9.43	-27 14.7	1.272	2.272	5.9	19.9
6 20	17 58.31	+ 0 39.0	1.296	2.262	10.6	19.5	6 20	17 58.54	-27 21.1	1.269	2.284	1.8	19.6
6 30	17 50.30	+ 0 27.5	1.306	2.263	11.4	19.6	6 30	17 47.74	-27 19.6	1.291	2.296	5.2	19.9
7 10	17 43.39	-0 10.4	1.338	2.266	13.7	19.7	7 10	17 38.50	-27 11.3	1.338	2.308	9.9	20.2
7 20	17 38.46	-1 10.1	1.390	2.269	16.5	19.9	7 20	17 31.88	-26 59.1	1.407	2.320	14.1	20.5
7 30	17 36.13	-2 25.7	1.459	2.274	19.1	20.1	7 30	17 28.50	-26 45.9	1.495	2.333	17.7	20.7
130658	2000 <i>SQ</i> ₉₈		6 20.7 310°69	2°0/20.7	18		433559	2013 <i>XN</i> ₁₉		6 20.7 192°68	4°8/20.3	18	
5 21	18 24.62	-27 45.6	1.297	2.200	15.5	19.4	5 21	18 21.37	-10 32.0	2.181	3.049	11.6	21.5
5 31	18 18.44	-27 50.7	1.231	2.193	11.2	19.1	5 31	18 15.06	-9 53.8	2.111	3.047	8.8	21.3
6 10	18 9.37	-27 50.3	1.187	2.187	6.2	18.9	6 10	18 7.18	-9 23.3	2.066	3.045	6.1	21.2
6 20	17 58.51	-27 41.7	1.166	2.181	2.0	18.6	6 20	17 58.41	-9 2.2	2.048	3.043	4.8	21.1
6 30	17 47.45	-27 24.1	1.169	2.174	5.5	18.8	6 30	17 49.57	-8 51.6	2.057	3.040	6.0	21.2
7 10	17 37.84	-26 59.3	1.197	2.169	10.6	19.0	7 10	17 41.50	-8 51.9	2.093	3.036	8.6	21.3
7 20	17 30.93	-26 31.2	1.245	2.163	15.3	19.3	7 20	17 34.90	-9 2.3	2.154	3.032	11.5	21.5
7 30	17 27.47	-26 3.6	1.312	2.158	19.2	19.5	7 30	17 30.28	-9 21.5	2.235	3.028	14.0	21.7
514370	2016 <i>QG</i> ₈₈		6 20.7 261°80	0°7/20.7	18		368941	2006 <i>WA</i> ₁₁₆		6 20.7 219°80	0°4/20.6	17	
5 21	18 20.68	-20 2.3	2.214	3.099	10.8	21.0	5 21	18 24.85	-22 58.5	2.023	2.907	11.7	22.1
5 31	18 14.75	-20 27.6	2.134	3.089	7.6	20.7	5 31	18 17.78	-22 49.5	1.943	2.897	8.3	21.8
6 10	18 7.10	-20 56.1	2.079	3.078	4.1	20.5	6 10	18 8.74	-22 39.3	1.888	2.887	4.4	21.6
6 20	17 58.37	-21 26.4	2.052	3.067	0.7	20.2	6 20	17 58.52	-22 27.3	1.860	2.876	0.4	21.2
6 30	17 49.42	-21 56.9	2.052	3.056	3.6	20.4	6 30	17 48.11	-22 13.5	1.860	2.865	4.0	21.5
7 10	17 41.16	-22 26.6	2.080	3.046	7.3	20.6	7 10	17 38.60	-21 58.9	1.888	2.852	8.0	21.7
7 20	17 34.36	-22 55.1	2.134	3.034	10.6	20.8	7 20	17 30.85	-21 45.0	1.941	2.839	11.6	21.9
7 30	17 29.63	-23 22.4	2.210	3.023	13.5	21.0	7 30	17 25.49	-21 33.3	2.015	2.825	14.7	22.1
177961	2006 <i>PQ</i> ₈		6 20.7 221°94	2°0/20.8	17 R		72364	2001 <i>BU</i> ₇₉					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
333666	2008 <i>SR</i> ₂₈₂		6 20.7 294 ^o .06	7 ^h .8/21.3	18		153029	2000 <i>OT</i> ₃₇		6 20.7 269 ^o .49	6 ^h .3/19.9	18	
5 21	18 28.64	-42 57.5	1.707	2.567	14.6	19.7	5 21	18 21.23	-9 34.4	1.756	2.632	13.5	19.0
5 31	18 21.32	-43 20.0	1.622	2.545	11.9	19.5	5 31	18 15.35	-8 38.0	1.681	2.619	10.5	18.8
6 10	18 10.96	-43 24.3	1.559	2.523	9.3	19.3	6 10	18 7.51	-7 50.6	1.629	2.606	7.6	18.6
6 20	17 58.66	-43 4.8	1.520	2.500	7.9	19.2	6 20	17 58.46	-7 15.4	1.601	2.593	6.3	18.5
6 30	17 46.06	-42 18.8	1.506	2.478	8.8	19.2	6 30	17 49.21	-6 55.1	1.600	2.579	7.7	18.5
7 10	17 34.90	-41 9.3	1.516	2.456	11.5	19.3	7 10	17 40.82	-6 50.5	1.623	2.566	10.7	18.7
7 20	17 26.50	-39 42.9	1.548	2.434	14.7	19.4	7 20	17 34.18	-7 0.7	1.669	2.552	14.0	18.8
7 30	17 21.66	-38 8.3	1.600	2.412	17.8	19.6	7 30	17 29.92	-7 23.8	1.734	2.538	17.0	19.0
476080	2007 <i>TJ</i> ₃₅		6 20.7 279 ^o .49	4 ^h .7/19.9	18		356200	2009 <i>OO</i> ₂₅		6 20.7 330 ^o .17	5 ^h .9/21.2	18	
5 21	18 25.88	-33 55.7	2.080	2.954	11.8	21.4	5 21	18 17.80	-5 53.9	2.048	2.912	12.4	19.6
5 31	18 19.01	-34 58.3	1.984	2.926	9.0	21.1	5 31	18 12.71	-5 47.5	1.976	2.904	9.8	19.4
6 10	18 9.67	-35 55.8	1.914	2.897	6.1	20.9	6 10	18 6.02	-5 54.5	1.927	2.896	7.3	19.3
6 20	17 58.59	-36 43.1	1.870	2.868	4.7	20.8	6 20	17 58.37	-6 16.0	1.903	2.889	6.0	19.2
6 30	17 46.89	-37 16.1	1.853	2.839	6.2	20.8	6 30	17 50.56	-6 52.0	1.905	2.883	6.8	19.2
7 10	17 35.86	-37 33.6	1.863	2.809	9.4	20.9	7 10	17 43.47	-7 40.7	1.933	2.876	9.2	19.3
7 20	17 26.68	-37 37.1	1.898	2.779	12.7	21.1	7 20	17 37.79	-8 39.5	1.984	2.870	12.0	19.5
7 30	17 20.25	-37 30.2	1.953	2.748	15.6	21.2	7 30	17 34.10	-9 45.2	2.057	2.864	14.6	19.7
413452	2005 <i>EE</i> ₃₄		6 20.7 94 ^o .08	14 ^h .8/23.2	17		262606	2006 <i>VF</i> ₁₃₄		6 20.7 226 ^o .22	0 ^h .8/20.7	17	
5 21	18 23.12	+12 56.0	1.598	2.381	18.9	21.0	5 21	18 24.32	-21 2.1	1.885	2.771	12.3	22.0
5 31	18 16.50	+13 56.7	1.564	2.399	17.1	20.9	5 31	18 17.54	-21 4.4	1.806	2.761	8.7	21.8
6 10	18 7.97	+14 25.2	1.547	2.417	15.6	20.8	6 10	18 8.69	-21 8.1	1.752	2.751	4.7	21.5
6 20	17 58.46	+14 17.5	1.550	2.434	14.8	20.8	6 20	17 58.55	-21 12.3	1.725	2.740	0.9	21.2
6 30	17 49.09	+13 32.9	1.573	2.452	15.0	20.9	6 30	17 48.18	-21 16.3	1.725	2.729	4.2	21.4
7 10	17 40.92	+12 15.7	1.616	2.468	16.0	21.0	7 10	17 38.71	-21 20.2	1.752	2.717	8.4	21.7
7 20	17 34.74	+10 32.7	1.679	2.485	17.4	21.1	7 20	17 31.06	-21 24.7	1.804	2.705	12.2	21.9
7 30	17 31.05	+8 32.5	1.759	2.501	19.0	21.3	7 30	17 25.91	-21 30.8	1.876	2.692	15.5	22.1
249092	2007 <i>VJ</i> ₁₁₉		6 20.7 230 ^o .98	2 ^h .3/20.8	18		382565	2002 <i>AM</i> ₄₀		6 20.7 232 ^o .00	2 ^h .2/20.7	18	
5 21	18 24.52	-17 5.6	1.630	2.518	13.7	20.5	5 21	18 22.84	-16 42.1	2.232	3.109	11.0	21.5
5 31	18 17.89	-17 14.6	1.556	2.510	9.9	20.2	5 31	18 16.25	-16 40.2	2.146	3.095	8.0	21.3
6 10	18 8.95	-17 30.0	1.505	2.502	5.7	19.9	6 10	18 7.92	-16 42.7	2.086	3.080	4.7	21.0
6 20	17 58.54	-17 50.8	1.479	2.492	2.3	19.7	6 20	17 58.50	-16 49.1	2.053	3.064	2.2	20.8
6 30	17 47.85	-18 15.8	1.480	2.483	5.0	19.8	6 30	17 48.84	-16 59.4	2.048	3.048	4.2	21.0
7 10	17 38.15	-18 44.0	1.507	2.473	9.5	20.1	7 10	17 39.86	-17 13.2	2.071	3.031	7.7	21.1
7 20	17 30.48	-19 14.4	1.558	2.462	13.6	20.3	7 20	17 32.35	-17 30.2	2.120	3.013	11.0	21.3
7 30	17 25.57	-19 46.7	1.628	2.451	17.1	20.5	7 30	17 26.90	-17 50.3	2.191	2.994	13.9	21.5
342642	2008 <i>UA</i> ₃₅₈		6 20.7 305 ^o .02	1 ^h .1/20.7	18		183424	2003 <i>AC</i> ₂₂		6 20.7 128 ^o .06	1 ^h .0/20.7	18	
5 21	18 21.98	-25 42.0	1.584	2.483	13.5	21.3	5 21	18 21.86	-26 0.6	2.430	3.312	10.1	21.1
5 31	18 16.37	-25 50.0	1.500	2.460	9.7	21.0	5 31	18 15.34	-26 15.9	2.371	3.323	7.1	20.9
6 10	18 8.27	-25 55.8	1.437	2.438	5.3	20.7	6 10	18 7.31	-26 28.8	2.337	3.334	3.8	20.7
6 20	17 58.51	-25 57.2	1.400	2.415	1.1	20.3	6 20	17 58.45	-26 38.2	2.330	3.345	1.0	20.5
6 30	17 48.33	-25 53.2	1.388	2.393	4.8	20.5	6 30	17 49.59	-26 43.1	2.353	3.356	3.4	20.7
7 10	17 39.12	-25 44.4	1.400	2.371	9.5	20.7	7 10	17 41.56	-26 43.9	2.403	3.366	6.6	20.9
7 20	17 32.02	-25 32.5	1.436	2.349	13.9	20.9	7 20	17 35.01	-26 41.6	2.479	3.375	9.5	21.1
7 30	17 27.87	-25 20.2	1.491	2.328	17.7	21.1	7 30	17 30.43	-26 37.8	2.578	3.385	12.0	21.3
514350	2016 <i>PO</i> ₉₄		6 20.7 250 ^o .47	6 ^h .1/20.2	18		20777	2000 <i>RX</i> ₁₀		6 20.7 240 ^o .83	1 ^h .9/20.6	18	
5 21	18 26.34	-39 14.2	2.141	3.002	12.0	22.1	5 21	18 22.19	-18 30.9	2.062	2.946	11.5	18.9
5 31	18 19.19	-40 9.0	2.063	2.990	9.5	21.9	5 31	18 15.88	-18 20.1	1.981	2.934	8.3	18.7
6 10	18 9.66	-40 53.3	2.009	2.977	7.2	21.7	6 10	18 7.75	-18 11.9	1.924	2.921	4.7	18.5
6 20	17 58.60	-41 22.2	1.981	2.964	6.1	21.6	6 20	17 58.49	-18 6.5	1.894	2.908	1.9	18.2
6 30	17 47.19	-41 32.6	1.979	2.951	7.1	21.7	6 30	17 49.03	-18 3.8	1.892	2.894	4.3	18.4
7 10	17 36.73	-41 25.0	2.004	2.937	9.5	21.8	7 10	17 40.35	-18 4.3	1.917	2.880	8.0	18.6
7 20	17 28.32	-41 2.3	2.052	2.923	12.3	21.9	7 20	17 33.26	-18 8.2	1.967	2.865	11.5	18.8
7 30	17 22.70	-40 29.4	2.120	2.909	14.8	22.1	7 30	17 28.38	-18 15.9	2.039	2.850	14.5	18.9
326922	2003 <i>YK</i> ₁₄₃		6 20.7 170 ^o .56	2 ^h .4/20.6	17		314043	2005 <i>AM</i> ₄		6 20.7 224 ^o .11	3 ^h .1/20.7	17	
5 21	18 27.00	-29 11.7	1.967	2.847	12.1	22.0	5 21	18 27.98	-30 54.3	1.737	2.620	13.3	21.4
5 31	18 19.35	-29 37.2	1.901	2.851	8.7	22.2	5 31	18 20.42	-31 10.7	1.661	2.611	9.7	21.1
6 10	18 9.58	-29 57.7	1.860	2.855	5.1	21.7	6 10	18 10.33	-31 19.9	1.607	2.601	5.8	20.9
6 20	17 58.59	-30 10.2	1.846	2.858	2.4	21.6	6 20	17 58.66	-31 18.3	1.580	2.590	3.1	20.7
6 30	17 47.50	-30 13.3	1.860	2.860	4.6	21.7	6 30	17 46.75	-31 4.6	1.580	2.579	5.3	20.8
7 10	17 37.50	-30 7.6	1.902	2.861	8.2	22.0	7 10	17 36.01	-30 40.2	1.606	2.567	9.3	21.0
7 20	17 29.50	-29 55.6	1.968	2.862	11.7	22.2	7 20	17 27.54	-30 8.6	1.656	2.554	13.2	21.2
7 30	17 24.12	-29 40.1	2.055	2.862	14.6	22.4	7 30	17 22.10	-29 34.4	1.726	2.541	16.6	21.4
112452	2002 <i>OY</i> ₈		6 20.7 233 ^o .78	1 ^h .0/20.6	18		251867	1999 <i>VV</i> ₁₆		6 20.7 140 ^o .32	0 ^h .1/20.7	17	
5 21	18 18.37	-20 33.6	2.659	3.542	9.3	20.3	5 21	18 25.70	-23 26.4	1.766	2.654	12.9	21.5
5 31	18 12.82	-20 21.5	2.584	3.537	6.6	20.1	5 31	18 18.41	-23 22.9	1.707	2.663	9.1	21.3
6 10	18 5.96	-20 10.1	2.535	3.533	3.6	19.9	6 10	18 9.05	-23 18.3	1.673	2.673	4.8	21.1
6 20	17 58.36	-19 59.5	2.513	3.528	1.0	19.7	6 20	17 58.57	-23 11.5	1.665	2.681	0.3	20.7
6 30	17 50.68	-19 49.9	2.521	3.524	3.2	19.9	6 30	17 48.12	-23 2.3	1.685	2.689	4.2	21.1
7 10	17 43.65	-19 41.7	2.556	3.519	6.2	20.1	7 10	17 38.85	-22 51.9	1.731	2.697	8.4	21.3
7 20	17 37.83	-19 35.6	2.617	3.514	9.0	20.2	7 20	17 31.64	-22 41.6	1.801	2.704	12.1	21.6
7 30	17 33.69	-19 32.0	2.701	3.509	11.5	20.							

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
45057	1999 <i>XO</i> ₂₉		6 20.7 271 ^o .21	0 ^o .6/20.7 18			257936	2000 <i>WL</i> ₁₈₂		6 20.7 136 ^o .28	3 ^o .5/21.3 18		
5 21	18 23.91	-20 29.9	1.544	2.439	14.0	19.2	5 21	18 19.71	-8 55.9	2.997	3.851	9.2	20.6
5 31	18 17.69	-20 55.7	1.467	2.426	10.0	18.9	5 31	18 13.56	-9 9.5	2.936	3.864	6.9	20.5
6 10	18 8.96	-21 25.9	1.413	2.413	5.4	18.6	6 10	18 6.30	-9 31.1	2.901	3.878	4.8	20.4
6 20	17 58.58	-21 58.3	1.384	2.400	0.7	18.2	6 20	17 58.44	-10 0.2	2.895	3.890	3.5	20.3
6 30	17 47.82	-22 30.5	1.381	2.386	4.8	18.5	6 30	17 50.57	-10 36.1	2.918	3.902	4.3	20.4
7 10	17 38.04	-23 1.1	1.404	2.373	9.6	18.7	7 10	17 43.27	-11 17.7	2.969	3.914	6.3	20.5
7 20	17 30.41	-23 29.7	1.449	2.359	14.0	19.0	7 20	17 37.05	-12 3.4	3.048	3.925	8.5	20.7
7 30	17 25.75	-23 56.9	1.514	2.346	17.8	19.2	7 30	17 32.28	-12 51.7	3.151	3.936	10.5	20.8
39819	1997 <i>YE</i> ₁₀		6 20.7 162 ^o .05	4 ^o .1/21.2 18			493600	2015 <i>MS</i> ₈₉		6 20.7 271 ^o .64	4 ^o .2/19.9 16		
5 21	18 27.44	-35 37.2	1.950	2.822	12.6	18.5	5 21	18 19.88	-13 5.4	2.290	3.165	10.9	21.4
5 31	18 19.67	-35 38.3	1.885	2.826	9.4	18.4	5 31	18 14.05	-12 7.9	2.209	3.151	8.2	21.2
6 10	18 9.73	-35 27.7	1.844	2.829	6.2	18.2	6 10	18 6.71	-11 14.5	2.154	3.137	5.5	21.0
6 20	17 58.62	-35 3.2	1.829	2.832	4.2	18.0	6 20	17 58.47	-10 27.5	2.125	3.124	4.2	20.9
6 30	17 47.58	-34 24.5	1.842	2.834	5.5	18.1	6 30	17 50.11	-9 49.1	2.124	3.110	5.6	21.0
7 10	17 37.82	-33 34.5	1.881	2.837	8.6	18.3	7 10	17 42.44	-9 20.8	2.151	3.095	8.3	21.1
7 20	17 30.24	-32 37.8	1.945	2.839	11.8	18.5	7 20	17 36.13	-9 3.1	2.202	3.081	11.2	21.3
7 30	17 25.42	-31 39.3	2.031	2.840	14.7	18.7	7 30	17 31.71	-8 55.7	2.274	3.067	13.8	21.4
100869	1998 <i>HQ</i> ₇₁		6 20.7 320 ^o .34	3 ^o .6/20.3 18			172591	2003 <i>UP</i> ₂₉₀		6 20.7 103 ^o .21	1 ^o .6/20.7 17		
5 21	18 22.21	-31 41.2	2.017	2.901	11.7	19.2	5 21	18 26.71	-26 54.3	1.562	2.454	14.0	20.8
5 31	18 16.13	-32 29.6	1.946	2.895	8.6	19.0	5 31	18 19.35	-27 10.3	1.512	2.469	9.9	20.6
6 10	18 7.97	-33 12.7	1.900	2.890	5.5	18.8	6 10	18 9.64	-27 22.3	1.484	2.483	5.4	20.4
6 20	17 58.52	-33 46.8	1.879	2.885	3.6	18.7	6 20	17 58.66	-27 27.7	1.482	2.497	1.7	20.2
6 30	17 48.83	-34 9.4	1.886	2.880	5.3	18.8	6 30	17 47.77	-27 25.5	1.507	2.511	4.8	20.4
7 10	17 40.05	-34 20.3	1.919	2.875	8.5	19.0	7 10	17 38.30	-27 17.0	1.557	2.524	9.1	20.7
7 20	17 33.10	-34 21.0	1.976	2.870	11.6	19.2	7 20	17 31.19	-27 4.6	1.630	2.537	13.0	20.9
7 30	17 28.66	-34 14.5	2.054	2.866	14.4	19.4	7 30	17 27.04	-26 51.1	1.724	2.549	16.2	21.2
110238	2001 <i>SC</i> ₂₃₂		6 20.7 108 ^o .39	3 ^o .2/20.7 17			211153	2002 <i>GU</i> ₁₅₂		6 20.7 96 ^o .76	1 ^o .0/20.8 17		
5 21	18 26.80	-31 8.7	1.830	2.713	12.8	20.0	5 21	18 25.47	-19 29.2	1.431	2.327	14.8	20.0
5 31	18 19.22	-31 39.6	1.780	2.729	9.3	19.8	5 31	18 18.62	-19 56.2	1.379	2.338	10.5	19.8
6 10	18 9.50	-32 3.3	1.753	2.746	5.6	19.7	6 10	18 9.34	-20 28.0	1.348	2.348	5.7	19.6
6 20	17 58.61	-32 16.6	1.753	2.762	3.3	19.5	6 20	17 58.66	-21 2.0	1.343	2.359	1.1	19.3
6 30	17 47.80	-32 18.2	1.780	2.777	5.1	19.7	6 30	17 47.95	-21 36.0	1.364	2.369	4.8	19.6
7 10	17 38.27	-32 9.2	1.833	2.792	8.6	19.9	7 10	17 38.58	-22 8.4	1.410	2.379	9.6	19.9
7 20	17 30.91	-31 52.5	1.911	2.807	11.9	20.2	7 20	17 31.56	-22 38.9	1.478	2.389	13.8	20.1
7 30	17 26.29	-31 31.8	2.009	2.821	14.7	20.4	7 30	17 27.56	-23 7.7	1.567	2.399	17.2	20.4
37592	Pauljackson		6 20.7 284 ^o .04	0 ^o .5/20.6 17			285366	1999 <i>TQ</i> ₆₆		6 20.7 277 ^o .65	0 ^o .4/20.7 18		
5 21	18 22.50	-23 9.9	1.721	2.615	12.8	19.3	5 21	18 24.86	-24 17.5	1.566	2.461	13.8	21.6
5 31	18 16.34	-22 52.4	1.650	2.609	9.1	19.1	5 31	18 18.49	-24 19.7	1.478	2.437	9.9	21.3
6 10	18 8.07	-22 33.4	1.602	2.602	4.9	18.8	6 10	18 9.47	-24 20.4	1.413	2.414	5.4	21.0
6 20	17 58.54	-22 12.7	1.580	2.596	0.6	18.5	6 20	17 58.68	-24 17.8	1.374	2.390	0.5	20.6
6 30	17 48.89	-21 51.0	1.584	2.590	4.3	18.8	6 30	17 47.41	-24 11.1	1.360	2.366	4.8	20.8
7 10	17 40.29	-21 29.6	1.615	2.583	8.7	19.0	7 10	17 37.10	-24 1.0	1.372	2.341	9.8	21.1
7 20	17 33.66	-21 10.3	1.669	2.577	12.6	19.2	7 20	17 28.98	-23 49.4	1.406	2.316	14.4	21.3
7 30	17 29.63	-20 54.9	1.743	2.571	16.0	19.4	7 30	17 23.93	-23 38.9	1.460	2.291	18.4	21.5
509204	2006 <i>SF</i> ₁₃		6 20.7 207 ^o .98	2 ^o .0/20.4 18			123222	2000 <i>UX</i> ₄₆		6 20.7 282 ^o .60	3 ^o .4/20.4 18		
5 21	18 20.94	-19 19.6	2.110	2.995	11.2	20.4	5 21	18 22.30	-31 42.2	2.184	3.065	11.1	20.1
5 31	18 14.84	-18 44.2	2.041	2.995	8.0	20.2	5 31	18 16.16	-32 23.2	2.103	3.051	8.2	19.9
6 10	18 7.12	-18 9.8	1.997	2.993	4.5	20.0	6 10	18 8.01	-32 59.3	2.046	3.036	5.2	19.7
6 20	17 58.48	-17 37.4	1.980	2.992	2.0	19.8	6 20	17 58.59	-33 27.1	2.016	3.022	3.4	19.6
6 30	17 49.82	-17 8.3	1.990	2.991	4.2	20.0	6 30	17 48.87	-33 44.3	2.013	3.007	5.0	19.6
7 10	17 42.02	-16 43.9	2.028	2.990	7.7	20.2	7 10	17 39.93	-33 50.8	2.037	2.993	8.1	19.8
7 20	17 35.78	-16 25.1	2.091	2.988	10.9	20.4	7 20	17 32.67	-33 48.1	2.086	2.978	11.2	20.0
7 30	17 31.64	-16 12.5	2.175	2.987	13.7	20.6	7 30	17 27.78	-33 38.9	2.156	2.964	14.0	20.1
55909	1998 <i>EB</i> ₁₁		6 20.7 35 ^o .47	5 ^o .8/21.1 18			430530	2002 <i>CV</i> ₁₅₇		6 20.7 130 ^o .00	5 ^o .3/21.3 17		
5 21	18 18.78	-7 1.2	1.930	2.798	12.8	19.1	5 21	18 22.45	-7 3.5	2.121	2.978	12.3	21.3
5 31	18 13.39	-6 47.9	1.871	2.803	10.0	18.9	5 31	18 15.80	-7 1.5	2.065	2.992	9.5	21.2
6 10	18 6.37	-6 47.5	1.836	2.809	7.3	18.8	6 10	18 7.60	-7 11.6	2.033	3.005	6.8	21.0
6 20	17 58.44	-7 1.1	1.825	2.815	5.9	18.7	6 20	17 58.55	-7 34.1	2.028	3.018	5.3	21.0
6 30	17 50.47	-7 28.5	1.841	2.821	6.8	18.8	6 30	17 49.52	-8 8.3	2.050	3.031	6.2	21.0
7 10	17 43.34	-8 8.3	1.882	2.827	9.3	18.9	7 10	17 41.35	-8 52.5	2.100	3.042	8.6	21.2
7 20	17 37.77	-8 57.7	1.946	2.834	12.1	19.1	7 20	17 34.71	-9 44.2	2.174	3.054	11.3	21.4
7 30	17 34.27	-9 53.9	2.032	2.840	14.7	19.3	7 30	17 30.09	-10 40.9	2.270	3.064	13.8	21.6
306669	2000 <i>SQ</i> ₃₃₆		6 20.7 220 ^o .20	5 ^o .9/19.9 18			275687	2000 <i>SP</i> ₁₃₃		6 20.7 287 ^o .60	6 ^o .1/19.7 15		
5 21	18 25.38	-41 4.3	2.571	3.421	10.6	20.4	5 21	18 21.42	-11 4.9	1.688	2.569	13.7	20.8
5 31	18 18.24	-42 3.2	2.498	3.415	8.5	20.2	5 31	18 15.65	-9 57.9	1.607	2.549	10.6	20.5
6 10	18 9.07	-42 51.9	2.451	3.408	6.7	20.1	6 10	18 7.78	-8 57.7	1.548	2.529	7.6	20.3
6 20	17 58.62	-43 26.0	2.429	3.402	5.9	20.1	6 20	17 58.58	-8 8.1	1.515	2.509	6.1	20.2
6 30	17 47.90	-43 43.3	2.435	3.395	6.7	20.1	6 30	17 49.10	-7 32.4	1.507	2.489	7.8	20.2
7 10	17 37.99	-43 43.7	2.468	3.388	8.6	20.2	7 10	17 40.47	-7 12.6	1.524	2.469	11.1	20.4
7 20	17 29.82	-43 29.9	2.524	3.381	10.7	20.3	7 20	17 33.64	-7 8.7	1.563	2.449	14.6	20.5
7 30	17 24.05	-43 5.8	2.602	3.373	12.8	20.5	7 30	17 29.32	-7 19.2	1.			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
519583	2012 <i>SQ</i> ₇₁		6 20.7 187°62	1°4/20.5	18		342228	2008 <i>SB</i> ₂₆₇		6 20.7 327°21	8°4/19.4	16	
5 21	18 22.06	-26 22.9	2.462	3.342	10.0	21.6	5 21	18 18.69	-8 4.4	1.398	2.286	15.6	20.5
5 31	18 15.65	-27 0.1	2.390	3.342	7.1	21.4	5 31	18 13.97	-6 43.0	1.328	2.269	12.4	20.2
6 10	18 7.60	-27 35.9	2.344	3.341	3.9	21.2	6 10	18 6.98	-5 33.0	1.279	2.253	9.6	20.0
6 20	17 58.57	-28 7.8	2.326	3.340	1.4	21.0	6 20	17 58.57	-4 39.8	1.252	2.238	8.4	19.9
6 30	17 49.39	-28 34.3	2.337	3.339	3.6	21.2	6 30	17 49.89	-4 8.0	1.248	2.223	9.9	20.0
7 10	17 40.92	-28 54.6	2.376	3.337	6.8	21.4	7 10	17 42.22	-3 59.2	1.267	2.210	13.1	20.1
7 20	17 33.88	-29 9.4	2.441	3.335	9.7	21.6	7 20	17 36.56	-4 12.2	1.306	2.197	16.6	20.3
7 30	17 28.84	-29 20.1	2.529	3.333	12.3	21.8	7 30	17 33.66	-4 43.5	1.362	2.185	19.8	20.5
510630	2012 <i>TM</i> ₁₇₅		6 20.7 239°74	1°6/20.7	17		522357	2016 <i>CJ</i> ₂₉₉		6 20.7 35°67	1°5/20.6	17	
5 21	18 23.41	-27 35.6	2.123	3.007	11.2	22.4	5 21	18 25.04	-24 12.0	1.239	2.145	15.9	21.0
5 31	18 16.84	-27 49.6	2.042	2.995	8.0	22.2	5 31	18 18.80	-24 58.2	1.185	2.149	11.3	20.7
6 10	18 8.34	-28 0.1	1.987	2.984	4.5	22.0	6 10	18 9.66	-25 45.4	1.151	2.153	6.1	20.4
6 20	17 58.63	-28 5.1	1.958	2.972	1.6	21.7	6 20	17 58.75	-26 29.0	1.141	2.157	1.5	20.2
6 30	17 48.72	-28 3.6	1.957	2.959	4.0	21.9	6 30	17 47.68	-27 5.2	1.156	2.161	5.5	20.4
7 10	17 39.65	-27 56.2	1.983	2.947	7.7	22.1	7 10	17 38.09	-27 32.8	1.194	2.166	10.6	20.7
7 20	17 32.27	-27 44.4	2.035	2.934	11.1	22.3	7 20	17 31.23	-27 52.7	1.254	2.171	15.2	21.0
7 30	17 27.24	-27 30.5	2.108	2.920	14.1	22.4	7 30	17 27.85	-28 7.2	1.332	2.177	19.0	21.3
190075	2004 <i>SP</i> ₅₆		6 20.7 275°97	2°2/20.7	17		308426	2005 <i>SF</i> ₁₃₉		6 20.7 209°03	0°1/20.7	18	
5 21	18 23.74	-28 35.3	1.726	2.617	13.0	20.6	5 21	18 20.16	-23 27.7	2.703	3.583	9.2	22.1
5 31	18 17.39	-28 48.2	1.653	2.609	9.3	20.4	5 31	18 14.16	-23 34.7	2.626	3.578	6.5	22.0
6 10	18 8.73	-28 56.1	1.603	2.601	5.3	20.1	6 10	18 6.77	-23 41.1	2.574	3.573	3.5	21.8
6 20	17 58.66	-28 56.7	1.579	2.592	2.2	19.9	6 20	17 58.56	-23 46.1	2.551	3.567	0.3	21.5
6 30	17 48.40	-28 48.7	1.581	2.584	4.8	20.1	6 30	17 50.25	-23 49.4	2.557	3.561	3.0	21.7
7 10	17 39.21	-28 33.2	1.609	2.576	8.9	20.3	7 10	17 42.57	-23 50.9	2.591	3.555	6.1	21.9
7 20	17 32.12	-28 12.8	1.661	2.567	12.8	20.5	7 20	17 36.13	-23 51.3	2.652	3.548	9.0	22.1
7 30	17 27.82	-27 50.5	1.733	2.559	16.1	20.7	7 30	17 31.44	-23 51.4	2.735	3.541	11.4	22.2
423956	2006 <i>UF</i> ₇₅		6 20.7 233°10	0°4/20.7	17		474351	2002 <i>QT</i> ₅₅		6 20.7 336°88	5°9/20.8	17	
5 21	18 25.38	-24 45.2	1.841	2.728	12.5	21.4	5 21	18 21.62	-35 36.5	1.396	2.292	15.1	20.4
5 31	18 18.41	-24 41.5	1.762	2.717	8.9	21.2	5 31	18 16.53	-36 7.3	1.324	2.276	11.6	20.1
6 10	18 9.23	-24 35.4	1.706	2.705	4.8	20.9	6 10	18 8.54	-36 26.2	1.274	2.261	7.9	19.9
6 20	17 58.70	-24 25.5	1.676	2.693	0.5	20.6	6 20	17 58.68	-36 28.2	1.246	2.248	5.9	19.7
6 30	17 47.94	-24 11.7	1.675	2.679	4.2	20.8	6 30	17 48.52	-36 10.8	1.242	2.235	7.5	19.8
7 10	17 38.16	-23 55.0	1.700	2.666	8.5	21.1	7 10	17 39.71	-35 35.8	1.261	2.224	11.2	19.9
7 20	17 30.32	-23 37.5	1.749	2.651	12.5	21.3	7 20	17 33.55	-34 48.2	1.301	2.213	15.2	20.1
7 30	17 25.12	-23 21.3	1.819	2.637	15.8	21.5	7 30	17 30.86	-33 54.1	1.360	2.204	18.7	20.3
477879	2011 <i>HC</i> ₆₆		6 20.7 15°50	6°0/20.1	16		370177	2002 <i>BC</i> ₂₆		6 20.7 152°49	10°8/21.7	15	
5 21	18 21.62	-32 30.9	1.161	2.070	16.5	20.3	5 21	18 45.52	-61 14.3	2.695	3.424	13.3	22.5
5 31	18 16.64	-33 47.8	1.116	2.076	12.3	20.1	5 31	18 33.20	-62 18.5	2.647	3.436	12.1	22.4
6 10	18 8.57	-34 55.9	1.092	2.085	8.1	19.9	6 10	18 17.26	-62 59.4	2.620	3.448	11.2	22.4
6 20	17 58.65	-35 47.9	1.090	2.094	6.0	19.8	6 20	17 59.26	-63 10.7	2.615	3.458	10.8	22.4
6 30	17 48.63	-36 19.1	1.111	2.105	8.0	19.9	6 30	17 41.35	-62 50.0	2.633	3.467	11.0	22.4
7 10	17 40.29	-36 29.8	1.154	2.117	11.9	20.2	7 10	17 25.65	-62 0.3	2.674	3.476	11.8	22.5
7 20	17 34.92	-36 23.9	1.217	2.131	15.8	20.4	7 20	17 13.56	-60 48.3	2.735	3.484	12.8	22.5
7 30	17 33.22	-36 6.9	1.297	2.146	19.2	20.7	7 30	17 5.75	-59 22.0	2.816	3.491	13.9	22.7
168956	2001 <i>AC</i> ₄₇		6 20.7 98°80	9°2/19.9	18		504073	2005 <i>YU</i> ₂₄₇		6 20.7 216°58	1°1/20.7	18	
5 21	18 38.27	-44 8.9	1.761	2.603	15.1	20.0	5 21	18 22.96	-19 50.3	2.062	2.946	11.5	22.1
5 31	18 28.01	-45 56.1	1.728	2.633	12.3	19.9	5 31	18 16.46	-19 56.7	1.986	2.939	8.2	21.9
6 10	18 14.48	-47 23.7	1.718	2.662	10.1	19.9	6 10	18 8.12	-20 5.7	1.934	2.932	4.5	21.7
6 20	17 59.05	-48 23.2	1.734	2.690	9.2	19.9	6 20	17 58.66	-20 16.3	1.910	2.925	1.1	21.4
6 30	17 43.59	-48 51.0	1.776	2.717	10.0	20.0	6 30	17 49.02	-20 27.7	1.913	2.917	3.9	21.6
7 10	17 30.01	-48 49.6	1.842	2.744	12.0	20.1	7 10	17 40.19	-20 39.8	1.944	2.908	7.8	21.8
7 20	17 19.65	-48 25.8	1.930	2.769	14.2	20.3	7 20	17 32.99	-20 52.6	2.000	2.900	11.3	22.0
7 30	17 13.18	-47 48.0	2.037	2.794	16.3	20.6	7 30	17 28.03	-21 6.5	2.078	2.890	14.3	22.2
182743	2001 <i>XM</i> ₈₄		6 20.7 238°58	0°6/20.7	18		87649	2000 <i>RE</i> ₈₀		6 20.7 280°42	3°4/21.1	18	
5 21	18 20.39	-21 26.8	2.282	3.167	10.5	20.6	5 21	18 25.69	-33 3.9	1.695	2.580	13.5	18.3
5 31	18 14.50	-21 30.8	2.207	3.161	7.4	20.4	5 31	18 18.84	-32 56.9	1.620	2.570	10.0	18.0
6 10	18 7.01	-21 35.9	2.156	3.155	4.0	20.1	6 10	18 9.52	-32 39.2	1.567	2.559	6.2	17.8
6 20	17 58.56	-21 41.1	2.133	3.149	0.6	19.9	6 20	17 58.75	-32 8.3	1.540	2.549	3.5	17.6
6 30	17 49.98	-21 46.2	2.138	3.143	3.5	20.1	6 30	17 47.86	-31 24.3	1.539	2.538	5.4	17.7
7 10	17 42.13	-21 51.0	2.171	3.136	7.0	20.3	7 10	17 38.21	-30 30.1	1.564	2.528	9.3	17.9
7 20	17 35.73	-21 56.0	2.229	3.129	10.2	20.5	7 20	17 30.87	-29 30.7	1.612	2.517	13.2	18.1
7 30	17 31.32	-22 1.9	2.308	3.122	13.0	20.7	7 30	17 26.50	-28 31.0	1.681	2.507	16.5	18.3
443403	2014 <i>HC</i> ₃₈		6 20.7 291°18	1°8/20.5	18		475631	2006 <i>UW</i> ₂₂₃		6 20.7 339°44	3°3/20.2	18	
5 21	18 21.59	-26 47.2	2.137	3.023	11.0	21.1	5 21	18 19.88	-17 45.7	1.691	2.586	13.0	19.4
5 31	18 15.57	-27 29.8	2.063	3.017	7.9	20.9	5 31	18 14.47	-16 51.5	1.621	2.578	9.4	19.1
6 10	18 7.67	-28 11.0	2.014	3.011	4.4	20.7	6 10	18 7.10	-15 59.2	1.575	2.571	5.7	18.9
6 20	17 58.61	-28 48.0	1.992	3.006	1.8	20.5	6 20	17 58.59	-15 11.3	1.555	2.565	3.3	18.7
6 30	17 49.31	-29 18.4	1.999	3.000	4.1	20.7	6 30	17 50.00	-14 30.2	1.560	2.559	5.5	18.9
7 10	17 40.81	-29 41.6	2.032	2.994	7.6	20.9	7 10	17 42.41	-13 58.0	1.591	2.553	9.3	19.1
7 20	17 33.92	-29 58.1	2.090	2.989	10.9	21.1	7 20	17 36.65	-13 35.9	1.645	2.549	13.0	19.3
7 30	17 29.30	-30 9.4	2.170	2.983	13.7	21.2	7 30	17 33.33	-13 23.9	1.719	2.544	16.2	19.5
203519	2002 <i>AN</i> ₁₇₉		6 20.7 114°95	0°6/20.7	17</								

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
133216	2003 <i>QT</i> ₇₅		6 20.7 317°38	10°9/19.7	17		46817	1998 <i>MG</i> ₁₆		6 20.7 280°30	1°7/20.7	18	
5 21	18 18.17	- 0 52.1	1.479	2.342	16.3	19.3	5 21	18 23.63	-19 21.7	1.607	2.500	13.6	19.9
5 31	18 13.66	+ 0 14.2	1.398	2.314	13.9	19.0	5 31	18 17.54	-19 17.8	1.519	2.476	9.9	19.6
6 10	18 6.89	+ 1 2.1	1.337	2.287	11.8	18.8	6 10	18 8.99	-19 17.2	1.454	2.452	5.5	19.3
6 20	17 58.60	+ 1 25.6	1.297	2.260	10.9	18.7	6 20	17 58.77	-19 19.4	1.413	2.428	1.8	19.0
6 30	17 49.86	+ 1 20.5	1.280	2.234	11.9	18.7	6 30	17 48.08	-19 24.2	1.399	2.403	5.0	19.2
7 10	17 41.91	+ 0 46.6	1.283	2.208	14.4	18.8	7 10	17 38.25	-19 31.5	1.410	2.378	9.8	19.4
7 20	17 35.80	- 0 13.1	1.307	2.183	17.5	18.9	7 20	17 30.42	-19 41.6	1.444	2.353	14.2	19.6
7 30	17 32.38	- 1 32.9	1.347	2.159	20.6	19.0	7 30	17 25.45	-19 55.2	1.498	2.327	18.0	19.7
379796	2011 <i>HL</i> ₈₅		6 20.7 126°70	1°0/20.7	17		358393	2007 <i>AJ</i> ₂₂		6 20.7 158°21	1°0/20.7	18	
5 21	18 23.65	-20 23.7	1.943	2.829	12.0	21.7	5 21	18 20.92	-26 3.1	2.630	3.510	9.4	21.9
5 31	18 16.85	-20 24.4	1.886	2.841	8.5	21.5	5 31	18 14.73	-26 25.4	2.562	3.514	6.7	21.7
6 10	18 8.25	-20 26.7	1.853	2.852	4.6	21.3	6 10	18 7.10	-26 46.0	2.521	3.518	3.6	21.5
6 20	17 58.67	-20 30.1	1.847	2.863	1.1	21.1	6 20	17 58.63	-27 3.2	2.507	3.522	1.1	21.3
6 30	17 49.11	-20 34.0	1.869	2.873	4.0	21.3	6 30	17 50.10	-27 16.1	2.523	3.525	3.2	21.5
7 10	17 40.56	-20 38.6	1.918	2.883	7.8	21.6	7 10	17 42.26	-27 24.5	2.567	3.529	6.3	21.7
7 20	17 33.80	-20 44.4	1.991	2.892	11.2	21.8	7 20	17 35.76	-27 29.3	2.636	3.532	9.0	21.9
7 30	17 29.35	-20 51.8	2.086	2.902	14.1	22.0	7 30	17 31.08	-27 31.6	2.729	3.534	11.4	22.0
438850	2009 <i>CB</i> ₆₁		6 20.7 275°66	2°4/20.8	18		171494	1996 <i>XS</i> ₃		6 20.7 168°45	3°8/20.7	17	
5 21	18 23.87	-30 2.5	2.001	2.884	11.8	20.9	5 21	18 23.30	-33 52.7	2.157	3.034	11.4	20.2
5 31	18 17.37	-30 8.4	1.911	2.863	8.6	20.7	5 31	18 16.77	-34 20.7	2.090	3.034	8.4	20.0
6 10	18 8.73	-30 8.2	1.846	2.841	5.0	20.4	6 10	18 8.31	-34 40.9	2.048	3.035	5.5	19.8
6 20	17 58.71	-29 59.7	1.808	2.820	2.4	20.2	6 20	17 58.72	-34 50.4	2.032	3.035	3.8	19.7
6 30	17 48.40	-29 41.9	1.796	2.797	4.5	20.3	6 30	17 49.03	-34 47.9	2.044	3.035	5.2	19.8
7 10	17 38.96	-29 16.2	1.812	2.775	8.3	20.5	7 10	17 40.32	-34 34.2	2.082	3.036	8.0	20.0
7 20	17 31.35	-28 45.1	1.852	2.753	12.0	20.7	7 20	17 33.41	-34 12.0	2.144	3.036	11.0	20.2
7 30	17 26.29	-28 12.1	1.913	2.730	15.2	20.8	7 30	17 28.91	-33 44.7	2.228	3.036	13.6	20.3
177683	2005 <i>EE</i> ₂₃₄		6 20.7 154°29	0°9/20.8	17		500903	2013 <i>MW</i> ₉		6 20.7 355°41	0°7/20.7	17	
5 21	18 25.07	-20 6.0	1.567	2.459	14.0	20.6	5 21	18 17.77	-23 2.7	0.936	1.864	17.7	20.2
5 31	18 18.32	-20 27.5	1.505	2.463	9.9	20.4	5 31	18 14.24	-23 33.3	0.882	1.857	12.6	19.9
6 10	18 9.23	-20 52.8	1.466	2.466	5.4	20.1	6 10	18 7.50	-24 7.2	0.847	1.851	6.8	19.6
6 20	17 58.75	-21 19.8	1.453	2.469	0.9	19.8	6 20	17 58.69	-24 40.7	0.831	1.847	0.8	19.2
6 30	17 48.14	-21 46.6	1.466	2.471	4.6	20.1	6 30	17 49.59	-25 10.5	0.837	1.845	6.0	19.5
7 10	17 38.68	-22 12.2	1.505	2.473	9.2	20.4	7 10	17 42.10	-25 35.0	0.863	1.845	12.0	19.8
7 20	17 31.41	-22 36.5	1.567	2.475	13.3	20.6	7 20	17 37.63	-25 54.4	0.907	1.846	17.2	20.1
7 30	17 26.98	-22 59.9	1.650	2.477	16.7	20.8	7 30	17 37.01	-26 10.1	0.968	1.850	21.7	20.4
122642	2000 <i>RK</i> ₈₄		6 20.7 235°72	0°4/20.7	18		319487	2006 <i>QX</i> ₂₂		6 20.7 309°37	5°4/20.6	18	
5 21	18 23.73	-24 38.5	1.960	2.846	11.9	20.6	5 21	18 24.44	-33 10.3	1.279	2.179	15.9	19.8
5 31	18 17.13	-24 36.3	1.881	2.837	8.4	20.3	5 31	18 18.96	-33 50.1	1.197	2.154	12.0	19.5
6 10	18 8.53	-24 32.0	1.828	2.827	4.5	20.1	6 10	18 10.11	-34 21.3	1.136	2.128	7.9	19.2
6 20	17 58.71	-24 24.6	1.800	2.817	0.5	19.7	6 20	17 58.89	-34 37.7	1.097	2.103	5.4	19.0
6 30	17 48.71	-24 13.8	1.801	2.806	4.0	20.0	6 30	17 46.95	-34 35.1	1.081	2.078	7.6	19.0
7 10	17 39.62	-24 0.4	1.829	2.795	8.0	20.2	7 10	17 36.27	-34 13.7	1.088	2.054	12.2	19.2
7 20	17 32.32	-23 46.1	1.881	2.783	11.7	20.4	7 20	17 28.46	-33 38.2	1.115	2.030	16.9	19.4
7 30	17 27.46	-23 32.8	1.954	2.771	14.9	20.6	7 30	17 24.61	-32 55.0	1.160	2.007	21.1	19.6
15762	Rühmann		6 20.7 319°17	0°2/20.7	18		121621	1999 <i>VP</i> ₁₆₇		6 20.7 242°14	1°7/20.7	18	
5 21	18 21.20	-24 54.7	1.346	2.253	14.8	17.0	5 21	18 20.87	-28 34.9	2.683	3.561	9.3	20.5
5 31	18 16.14	-24 38.8	1.265	2.230	10.6	16.7	5 31	18 14.78	-28 51.0	2.599	3.549	6.7	20.3
6 10	18 8.34	-24 19.3	1.206	2.208	5.8	16.4	6 10	18 7.19	-29 3.7	2.541	3.537	3.8	20.1
6 20	17 58.72	-23 55.3	1.170	2.186	0.5	15.9	6 20	17 58.66	-29 11.4	2.512	3.524	1.7	19.9
6 30	17 48.68	-23 27.3	1.158	2.165	5.1	16.2	6 30	17 49.98	-29 13.4	2.511	3.511	3.5	20.1
7 10	17 39.78	-22 57.4	1.170	2.144	10.5	16.5	7 10	17 41.93	-29 9.7	2.538	3.498	6.4	20.2
7 20	17 33.27	-22 28.7	1.203	2.125	15.4	16.7	7 20	17 35.20	-29 1.6	2.591	3.485	9.2	20.4
7 30	17 30.03	-22 3.9	1.254	2.106	19.6	16.9	7 30	17 30.31	-28 50.8	2.667	3.471	11.7	20.5
376321	2011 <i>GF</i> ₄₇		6 20.7 107°73	6°2/20.3	18		186330	2002 <i>EX</i> ₁₅		6 20.7 170°08	4°5/20.4	18	
5 21	18 21.76	- 8 28.8	1.839	2.709	13.3	20.6	5 21	18 18.75	-10 40.3	2.330	3.200	10.9	19.9
5 31	18 15.50	- 7 36.4	1.786	2.719	10.3	20.4	5 31	18 13.22	-10 4.8	2.263	3.201	8.2	19.8
6 10	18 7.53	- 6 54.9	1.756	2.729	7.6	20.2	6 10	18 6.31	- 9 36.7	2.222	3.201	5.8	19.6
6 20	17 58.65	- 6 26.9	1.751	2.739	6.2	20.2	6 20	17 58.61	- 9 17.5	2.206	3.201	4.5	19.5
6 30	17 49.81	- 6 14.0	1.773	2.749	7.4	20.3	6 30	17 50.87	- 9 8.1	2.219	3.202	5.6	19.6
7 10	17 41.95	- 6 16.2	1.819	2.758	10.0	20.4	7 10	17 43.83	- 9 8.6	2.257	3.202	8.0	19.8
7 20	17 35.81	- 6 31.9	1.889	2.767	12.8	20.6	7 20	17 38.12	- 9 18.5	2.321	3.202	10.6	19.9
7 30	17 31.89	- 6 58.6	1.979	2.776	15.4	20.8	7 30	17 34.18	- 9 36.5	2.406	3.202	13.0	20.1
192720	1999 <i>TA</i> ₁₄₀		6 20.7 251°81	4°4/20.4	18		155874	2001 <i>DQ</i> ₈₂		6 20.7 297°09	1°7/20.7	18	
5 21	18 20.99	-13 9.7	1.870	2.752	12.6	20.1	5 21	18 20.47	-28 25.9	2.316	3.201	10.4	20.0
5 31	18 15.10	-12 31.1	1.801	2.747	9.4	19.9	5 31	18 14.63	-28 38.1	2.244	3.197	7.4	19.8
6 10	18 7.40	-11 59.1	1.756	2.743	6.2	19.7	6 10	18 7.13	-28 46.5	2.196	3.192	4.2	19.6
6 20	17 58.65	-11 35.6	1.736	2.739	4.4	19.6	6 20	17 58.67	-28 49.6	2.175	3.188	1.7	19.4
6 30	17 49.80	-11 21.8	1.743	2.734	6.0	19.7	6 30	17 50.10	-28 46.5	2.182	3.184	3.8	19.6
7 10	17 41.83	-11 18.4	1.776	2.729	9.2	19.8	7 10	17 42.33	-28 37.8	2.217	3.180	7.0	19.8
7 20	17 35.53	-11 25.0	1.832	2.725	12.5	20.0	7 20	17 36.07	-28 25.1	2.276	3.176	10.1	19.9
7 30	17 31.48	-11 40.3	1.909	2.720	15.4	20.2	7 30	17 31.87	-28 10.3	2.358	3.173	12.7	20.1
204650	2006 <i>BN</i> ₉₉		6 20.7 131°97	0°3/20.7	17		3340						

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
131001	2000 <i>WJ</i> ₁₈₀		6 20.7 103°38	0°0/20.7 17			360988	2005 <i>UQ</i> ₃₅₀		6 20.7 237°99	3°0/20.5 18		
5 21	18 25.19	-21 22.7	2.035	2.917	11.7	20.4	5 21	18 19.15	-14 58.9	2.442	3.319	10.2	21.0
5 31	18 17.89	-22 1.4	1.986	2.939	8.2	20.2	5 31	18 13.53	-14 30.7	2.367	3.313	7.5	20.8
6 10	18 8.82	-22 41.8	1.962	2.961	4.3	20.0	6 10	18 6.51	-14 6.7	2.317	3.307	4.7	20.6
6 20	17 58.79	-23 21.1	1.965	2.982	0.3	19.7	6 20	17 58.67	-13 47.6	2.294	3.300	3.0	20.5
6 30	17 48.79	-23 57.4	1.998	3.002	3.7	20.0	6 30	17 50.75	-13 34.4	2.299	3.293	4.4	20.6
7 10	17 39.81	-24 29.8	2.058	3.022	7.4	20.3	7 10	17 43.50	-13 27.6	2.332	3.287	7.2	20.8
7 20	17 32.60	-24 58.1	2.143	3.041	10.7	20.5	7 20	17 37.52	-13 27.2	2.390	3.280	10.1	20.9
7 30	17 27.69	-25 23.2	2.251	3.060	13.4	20.8	7 30	17 33.31	-13 32.8	2.470	3.273	12.6	21.1
31702	1999 <i>JD</i> ₄₁		6 20.7 347°36	2°4/20.4 18			32809	Sommerfeld		6 20.7 308°49	4°6/20.7 18		
5 21	18 24.51	-26 39.4	1.628	2.521	13.5	17.1	5 21	18 23.22	-35 29.7	1.985	2.862	12.1	18.8
5 31	18 18.10	-27 37.2	1.563	2.520	9.7	16.9	5 31	18 16.99	-35 59.9	1.912	2.854	9.2	18.6
6 10	18 9.24	-28 34.0	1.522	2.520	5.5	16.7	6 10	18 8.57	-36 21.0	1.862	2.846	6.3	18.4
6 20	17 58.83	-29 25.2	1.506	2.519	2.4	16.5	6 20	17 58.82	-36 29.2	1.838	2.837	4.6	18.3
6 30	17 48.16	-30 7.2	1.517	2.518	5.1	16.6	6 30	17 48.89	-36 23.0	1.841	2.829	5.9	18.4
7 10	17 38.58	-30 38.4	1.554	2.518	9.3	16.9	7 10	17 39.97	-36 3.2	1.869	2.822	8.9	18.5
7 20	17 31.20	-31 0.0	1.613	2.518	13.2	17.1	7 20	17 33.03	-35 33.1	1.921	2.814	12.0	18.7
7 30	17 26.75	-31 14.1	1.693	2.518	16.5	17.3	7 30	17 28.73	-34 56.7	1.993	2.806	14.8	18.9
312781	2010 <i>VO</i> ₃₉		6 20.7 98°69	4°0/20.9 17			107200	2001 <i>BB</i> ₃₂		6 20.7 124°49	1°2/20.8 18		
5 21	18 27.48	-32 54.7	1.497	2.385	14.7	20.3	5 21	18 25.83	-20 2.3	1.687	2.575	13.4	19.8
5 31	18 20.22	-33 9.1	1.440	2.392	10.8	20.1	5 31	18 18.62	-20 6.9	1.633	2.588	9.5	19.6
6 10	18 10.30	-33 13.1	1.406	2.398	6.8	19.8	6 10	18 9.32	-20 14.0	1.602	2.601	5.1	19.3
6 20	17 58.90	-33 3.2	1.397	2.405	4.1	19.7	6 20	17 58.87	-20 22.6	1.598	2.613	1.2	19.1
6 30	17 47.55	-32 38.8	1.413	2.411	6.0	19.8	6 30	17 48.47	-20 31.7	1.621	2.625	4.4	19.3
7 10	17 37.74	-32 2.5	1.454	2.417	9.9	20.1	7 10	17 39.26	-20 41.4	1.670	2.636	8.6	19.6
7 20	17 30.56	-31 19.1	1.518	2.424	13.8	20.3	7 20	17 32.12	-20 52.0	1.743	2.647	12.4	19.9
7 30	17 26.61	-30 33.9	1.601	2.430	17.1	20.6	7 30	17 27.64	-21 4.1	1.837	2.657	15.6	20.1
428054	2006 <i>DZ</i> ₂₀₃		6 20.7 95°32	5°3/21.5 18			75261	1999 <i>XB</i> ₁₁		6 20.7 214°02	4°2/20.6 18		
5 21	18 27.99	-38 35.2	1.832	2.701	13.4	20.4	5 21	18 27.36	-32 45.0	1.682	2.566	13.7	19.9
5 31	18 20.23	-38 38.7	1.775	2.710	10.3	20.2	5 31	18 20.16	-33 22.3	1.614	2.562	10.1	19.6
6 10	18 10.16	-38 27.7	1.741	2.718	7.2	20.0	6 10	18 10.36	-33 51.6	1.568	2.558	6.5	19.4
6 20	17 58.90	-37 59.3	1.731	2.727	5.4	19.9	6 20	17 58.96	-34 8.4	1.548	2.553	4.3	19.3
6 30	17 47.80	-37 13.7	1.749	2.736	6.4	20.0	6 30	17 47.33	-34 10.2	1.554	2.548	6.1	19.4
7 10	17 38.17	-36 14.3	1.792	2.744	9.2	20.2	7 10	17 36.93	-33 58.0	1.585	2.543	9.7	19.6
7 20	17 30.94	-35 6.8	1.860	2.753	12.3	20.4	7 20	17 28.89	-33 35.2	1.640	2.538	13.4	19.8
7 30	17 26.64	-33 56.8	1.949	2.761	15.1	20.6	7 30	17 23.97	-33 6.6	1.715	2.532	16.6	20.0
373600	2002 <i>CA</i> ₂₁₇		6 20.7 184°88	1°7/20.8 17			288789	2004 <i>RF</i> ₁₃₈		6 20.7 299°15	5°0/21.7 18		
5 21	18 22.92	-17 46.6	2.476	3.350	10.2	22.5	5 21	18 25.81	-40 0.7	2.214	3.073	11.8	20.0
5 31	18 16.16	-17 47.3	2.403	3.350	7.3	22.4	5 31	18 18.54	-39 51.8	2.137	3.065	9.2	19.8
6 10	18 7.89	-17 51.1	2.355	3.350	4.1	22.2	6 10	18 9.26	-39 28.8	2.085	3.057	6.6	19.6
6 20	17 58.76	-17 57.5	2.336	3.349	1.7	22.0	6 20	17 58.87	-38 49.5	2.058	3.050	5.1	19.5
6 30	17 49.52	-18 6.3	2.346	3.347	3.7	22.1	6 30	17 48.53	-37 54.1	2.059	3.043	5.9	19.6
7 10	17 41.00	-18 17.1	2.385	3.344	6.8	22.3	7 10	17 39.35	-36 45.4	2.087	3.035	8.4	19.7
7 20	17 33.85	-18 29.9	2.449	3.341	9.8	22.5	7 20	17 32.17	-35 28.5	2.140	3.028	11.1	19.9
7 30	17 28.57	-18 44.8	2.537	3.336	12.3	22.7	7 30	17 27.54	-34 8.5	2.216	3.021	13.7	20.0
375992	2009 <i>XP</i> ₉		6 20.7 204°87	3°3/20.4 18			86528	2000 <i>DC</i> ₇₈		6 20.7 38°25	3°3/20.8 17		
5 21	18 22.94	-15 33.2	2.087	2.965	11.6	21.1	5 21	18 26.55	-29 57.4	1.182	2.086	16.7	19.2
5 31	18 16.35	-14 52.5	2.014	2.961	8.5	20.9	5 31	18 20.04	-30 15.1	1.128	2.090	12.1	19.0
6 10	18 8.05	-14 15.4	1.966	2.956	5.3	20.7	6 10	18 10.41	-30 24.8	1.096	2.094	7.1	18.7
6 20	17 58.77	-13 43.4	1.945	2.951	3.3	20.5	6 20	17 58.97	-30 22.3	1.086	2.098	3.4	18.5
6 30	17 49.41	-13 18.1	1.952	2.946	5.1	20.6	6 30	17 47.49	-30 6.5	1.099	2.103	6.2	18.7
7 10	17 40.89	-13 0.4	1.986	2.940	8.3	20.8	7 10	17 37.78	-29 39.9	1.136	2.107	11.1	19.0
7 20	17 33.95	-12 50.9	2.044	2.933	11.6	21.0	7 20	17 31.08	-29 7.2	1.194	2.112	15.7	19.3
7 30	17 29.15	-12 49.4	2.124	2.926	14.4	21.2	7 30	17 28.08	-28 33.3	1.269	2.118	19.6	19.5
214821	2006 <i>VJ</i> ₁₆		6 20.7 33°66	4°3/20.4 17			12429	1995 <i>WH</i> ₇		6 20.7 200°78	1°4/20.8 18		
5 21	18 23.34	-33 45.9	2.019	2.899	11.9	20.1	5 21	18 24.40	-19 28.6	1.867	2.752	12.4	18.6
5 31	18 16.97	-34 35.1	1.957	2.901	8.9	19.9	5 31	18 17.63	-19 28.7	1.795	2.749	8.9	18.4
6 10	18 8.52	-35 17.0	1.918	2.904	5.9	19.7	6 10	18 8.85	-19 31.5	1.748	2.746	4.9	18.1
6 20	17 58.81	-35 47.6	1.906	2.907	4.3	19.6	6 20	17 58.86	-19 36.3	1.727	2.742	1.5	17.9
6 30	17 48.95	-36 4.7	1.921	2.910	5.7	19.7	6 30	17 48.71	-19 42.7	1.734	2.737	4.3	18.1
7 10	17 40.08	-36 8.6	1.961	2.913	8.6	19.9	7 10	17 39.51	-19 50.5	1.767	2.732	8.4	18.3
7 20	17 33.14	-36 1.4	2.026	2.916	11.6	20.1	7 20	17 32.13	-20 0.1	1.825	2.726	12.1	18.5
7 30	17 28.75	-35 46.6	2.111	2.919	14.2	20.3	7 30	17 27.21	-20 11.9	1.904	2.720	15.2	18.7
141186	2001 <i>XD</i> ₁₇₅		6 20.7 87°60	0°5/20.7 17			19388	1998 <i>DQ</i> ₃		6 20.7 184°49	9°0/21.1 18 R		
5 21	18 20.99	-21 40.0	2.246	3.131	10.6	20.4	5 21	18 23.98	+ 3 51.7	2.269	3.075	13.3	19.5
5 31	18 14.83	-21 45.4	2.192	3.147	7.5	20.2	5 31	18 16.94	+ 4 27.2	2.203	3.076	11.4	19.4
6 10	18 7.17	-21 51.6	2.164	3.163	4.0	20.0	6 10	18 8.34	+ 4 44.9	2.160	3.076	9.7	19.2
6 20	17 58.71	-21 57.6	2.162	3.178	0.5	19.8	6 20	17 58.83	+ 4 42.1	2.141	3.075	9.0	19.2
6 30	17 50.29	-22 3.1	2.189	3.193	3.4	20.1	6 30	17 49.22	+ 4 18.0	2.148	3.073	9.5	19.2
7 10	17 42.73	-22 8.1	2.243	3.209	6.8	20.3	7 10	17 40.37	+ 3 34.0	2.181	3.069	11.0	19.3
7 20	17 36.69	-22 13.1	2.323	3.224	9.9	20.5	7 20	17 32.95	+ 2 33.3	2.238	3.065	12.9	19.4
7 30	17 32.63	-22 18.6	2.425	3.239	12.4	20.7	7 30	17 27.48	+ 1 20.2	2.315	3.059	14.9	19.6
355537	2008 <i>AW</i> ₁₁₆		6 20.7 122°80	2°4/20.8 17			30721	1975 <					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
231490	2008 <i>QO</i> ₇		6 20.7 212°35'	4.6/20.9	18		470749	2008 <i>UP</i> ₁₃₁		6 20.8 336°42'	3.8/20.5	16	
5 21	18 21.79	-9 14.2	2.222	3.085	11.6	21.2	5 21	18 20.17	-29 31.9	1.252	2.162	15.5	21.0
5 31	18 15.52	-9 7.0	2.146	3.078	8.9	21.0	5 31	18 15.73	-30 14.1	1.180	2.144	11.4	20.7
6 10	18 7.65	-9 9.5	2.093	3.071	6.2	20.8	6 10	18 8.31	-30 52.1	1.130	2.128	6.9	20.4
6 20	17 58.79	-9 22.5	2.068	3.064	4.6	20.7	6 20	17 58.89	-31 20.9	1.101	2.112	3.8	20.2
6 30	17 49.77	-9 45.9	2.070	3.056	5.7	20.8	6 30	17 49.01	-31 36.8	1.096	2.098	6.5	20.3
7 10	17 41.45	-10 18.8	2.100	3.047	8.4	20.9	7 10	17 40.38	-31 39.5	1.113	2.085	11.2	20.5
7 20	17 34.53	-10 59.4	2.154	3.038	11.3	21.1	7 20	17 34.39	-31 31.3	1.151	2.073	15.9	20.8
7 30	17 29.57	-11 45.7	2.231	3.028	13.9	21.2	7 30	17 31.98	-31 16.4	1.206	2.063	19.9	21.0
38566	1999 <i>VQ</i> ₁₄₇		6 20.7 355°80'	1.3/20.7	18		43528	2001 <i>DZ</i> ₅₉		6 20.8 92°71'	0.0/20.8	18	
5 21	18 18.61	-21 48.3	1.220	2.134	15.5	17.6	5 21	18 22.60	-23 2.8	1.804	2.696	12.5	19.3
5 31	18 14.23	-21 25.6	1.160	2.128	11.0	17.4	5 31	18 16.43	-23 11.2	1.739	2.697	8.8	19.1
6 10	18 7.27	-21 3.4	1.122	2.124	6.0	17.1	6 10	18 8.25	-23 19.7	1.698	2.698	4.7	18.8
6 20	17 58.77	-20 42.1	1.105	2.121	1.4	16.7	6 20	17 58.89	-23 26.9	1.683	2.699	0.3	18.5
6 30	17 50.15	-20 22.8	1.112	2.119	5.3	17.0	6 30	17 49.44	-23 31.9	1.695	2.700	4.1	18.8
7 10	17 42.86	-20 7.0	1.142	2.118	10.4	17.3	7 10	17 40.99	-23 35.0	1.733	2.701	8.2	19.0
7 20	17 37.99	-19 56.2	1.192	2.119	15.1	17.5	7 20	17 34.42	-23 37.1	1.794	2.702	11.9	19.3
7 30	17 36.24	-19 51.0	1.261	2.122	18.9	17.8	7 30	17 30.35	-23 39.3	1.877	2.703	15.1	19.5
391105	2005 <i>UU</i> ₄₅₉		6 20.7 351°46'	6.3/19.3	18		397384	2006 <i>VM</i> ₅₃		6 20.8 332°32'	0.8/20.8	18	
5 21	18 22.94	-34 31.3	1.631	2.520	13.7	19.4	5 21	18 21.61	-26 19.1	2.121	3.008	11.1	21.3
5 31	18 17.36	-36 13.4	1.566	2.513	10.5	19.1	5 31	18 15.49	-26 10.1	2.053	3.008	7.8	21.1
6 10	18 9.06	-37 49.4	1.525	2.507	7.6	19.0	6 10	18 7.66	-25 57.6	2.009	3.008	4.2	20.9
6 20	17 58.91	-39 11.9	1.508	2.502	6.3	18.9	6 20	17 58.85	-25 41.1	1.992	3.008	0.8	20.6
6 30	17 48.27	-40 14.8	1.517	2.497	8.0	19.0	6 30	17 50.00	-25 20.6	2.003	3.007	3.6	20.8
7 10	17 38.67	-40 56.2	1.551	2.494	11.0	19.1	7 10	17 42.06	-24 57.5	2.041	3.007	7.3	21.1
7 20	17 31.39	-41 17.9	1.606	2.492	14.3	19.3	7 20	17 35.77	-24 33.7	2.103	3.007	10.6	21.3
7 30	17 27.35	-41 24.3	1.680	2.491	17.2	19.5	7 30	17 31.66	-24 10.9	2.188	3.007	13.4	21.5
261462	2005 <i>VN</i> ₇₃		6 20.7 257°52'	3.3/20.5	18		248457	2005 <i>UU</i> ₁₂		6 20.8 226°51'	7.0/21.3	18	
5 21	18 19.04	-14 15.1	2.390	3.267	10.4	20.7	5 21	18 28.53	-47 58.3	2.722	3.540	11.0	21.3
5 31	18 13.50	-13 44.3	2.313	3.258	7.7	20.5	5 31	18 20.49	-48 26.0	2.646	3.531	9.3	21.2
6 10	18 6.53	-13 18.1	2.262	3.250	4.9	20.3	6 10	18 10.38	-48 38.5	2.593	3.522	7.8	21.1
6 20	17 58.72	-12 57.7	2.237	3.242	3.3	20.2	6 20	17 59.06	-48 32.2	2.566	3.512	7.1	21.0
6 30	17 50.81	-12 43.8	2.241	3.233	4.7	20.3	6 30	17 47.68	-48 5.7	2.565	3.502	7.5	21.0
7 10	17 43.57	-12 37.2	2.271	3.224	7.5	20.5	7 10	17 37.38	-47 20.6	2.590	3.492	8.9	21.1
7 20	17 37.61	-12 37.7	2.326	3.216	10.3	20.6	7 20	17 29.06	-46 21.0	2.639	3.482	10.7	21.2
7 30	17 33.45	-12 44.8	2.404	3.207	12.8	20.8	7 30	17 23.32	-45 11.9	2.710	3.471	12.6	21.3
235797	2004 <i>XS</i> ₂₂		6 20.7 264°72'	0.8/20.8	18		297904	2002 <i>CU</i> ₂₇₅		6 20.8 162°60'	1.3/20.6	18	
5 21	18 22.35	-21 1.9	1.839	2.729	12.3	20.8	5 21	18 20.45	-19 35.7	2.989	3.863	8.6	20.7
5 31	18 16.30	-21 8.3	1.763	2.720	8.8	20.6	5 31	18 14.21	-19 10.8	2.921	3.869	6.1	20.5
6 10	18 8.20	-21 16.6	1.711	2.710	4.8	20.3	6 10	18 6.83	-18 46.6	2.879	3.875	3.4	20.4
6 20	17 58.85	-21 25.7	1.684	2.700	0.8	20.0	6 20	17 58.83	-18 23.5	2.867	3.880	1.3	20.2
6 30	17 49.26	-21 34.9	1.685	2.690	4.2	20.3	6 30	17 50.85	-18 2.1	2.884	3.884	3.1	20.4
7 10	17 40.56	-21 44.0	1.713	2.680	8.3	20.5	7 10	17 43.49	-17 43.2	2.930	3.888	5.8	20.5
7 20	17 33.66	-21 53.4	1.764	2.670	12.2	20.7	7 20	17 37.28	-17 27.5	3.003	3.892	8.3	20.7
7 30	17 29.22	-22 3.7	1.836	2.660	15.4	20.9	7 30	17 32.59	-17 15.4	3.100	3.895	10.4	20.9
481114	2005 <i>TY</i> ₁₂₇		6 20.7 267°44'	0.0/20.7	16		65264	2002 <i>GW</i> ₁₆		6 20.8 165°62'	3.5/20.7	18	
5 21	18 20.96	-23 21.6	2.470	3.352	9.9	22.1	5 21	18 18.60	-10 52.6	2.911	3.773	9.2	19.9
5 31	18 14.99	-23 22.7	2.377	3.331	7.0	21.9	5 31	18 12.96	-10 34.5	2.844	3.778	6.9	19.8
6 10	18 7.41	-23 23.1	2.310	3.309	3.8	21.7	6 10	18 6.19	-10 22.5	2.802	3.782	4.7	19.6
6 20	17 58.80	-23 22.2	2.270	3.286	0.3	21.3	6 20	17 58.79	-10 17.4	2.789	3.785	3.5	19.6
6 30	17 49.95	-23 19.4	2.259	3.264	3.3	21.6	6 30	17 51.37	-10 19.5	2.804	3.788	4.4	19.6
7 10	17 41.71	-23 15.1	2.276	3.241	6.8	21.7	7 10	17 44.51	-10 28.6	2.846	3.791	6.6	19.8
7 20	17 34.81	-23 10.1	2.319	3.217	10.0	21.9	7 20	17 38.71	-10 44.1	2.915	3.793	8.8	19.9
7 30	17 29.81	-23 5.6	2.384	3.194	12.7	22.1	7 30	17 34.39	-11 5.0	3.007	3.795	10.9	20.1
429606	2011 <i>FE</i> ₄		6 20.8 39°93'	18.3/20.5	17		129512	1995 <i>UZ</i> ₁		6 20.8 274°19'	0.1/20.8	17	
5 21	18 47.16	-64 40.1	1.539	2.295	20.6	20.6	5 21	18 22.72	-23 17.2	1.803	2.695	12.5	20.4
5 31	18 37.88	-66 58.7	1.514	2.307	19.4	20.5	5 31	18 16.66	-23 18.5	1.725	2.683	8.9	20.1
6 10	18 21.42	-68 41.2	1.504	2.320	18.6	20.5	6 10	18 8.47	-23 19.4	1.671	2.671	4.8	19.9
6 20	17 59.82	-69 35.4	1.512	2.334	18.3	20.5	6 20	17 58.97	-23 18.7	1.643	2.659	0.3	19.5
6 30	17 37.53	-69 35.6	1.536	2.347	18.5	20.5	6 30	17 49.23	-23 15.9	1.642	2.647	4.2	19.8
7 10	17 19.43	-68 47.3	1.575	2.362	19.2	20.6	7 10	17 40.41	-23 11.5	1.667	2.635	8.5	20.0
7 20	17 8.34	-67 23.1	1.630	2.377	20.2	20.7	7 20	17 33.46	-23 6.6	1.716	2.623	12.4	20.2
7 30	17 4.79	-65 36.6	1.698	2.392	21.2	20.9	7 30	17 29.06	-23 2.7	1.785	2.611	15.7	20.4
480010	2014 <i>MX</i> ₂₈		6 20.8 211°75'	0.7/20.9	18		503514	2016 <i>FY</i> ₆		6 20.8 43°58'	19.0/26.3	17	
5 21	18 22.41	-18 14.7	2.742	3.614	9.4	20.9	5 21	18 48.36	-63 40.1	1.249	2.030	23.3	19.9
5 31	18 15.84	-19 1.1	2.660	3.608	6.7	20.7	5 31	18 37.93	-64 59.5	1.217	2.042	21.5	19.8
6 10	18 7.80	-19 51.9	2.605	3.602	3.6	20.5	6 10	18 20.67	-65 36.5	1.200	2.055	20.1	19.8
6 20	17 58.84	-20 45.1	2.580	3.595	0.8	20.3	6 20	17 59.81	-65 18.7	1.198	2.069	19.1	19.7
6 30	17 49.66	-21 38.7	2.585	3.588	3.1	20.4	6 30	17 40.12	-64 2.8	1.213	2.083	19.0	19.8
7 10	17 41.01	-22 30.9	2.620	3.581	6.2	20.6	7 10	17 25.54	-61 58.6	1.245	2.098	19.7	19.9
7 20	17 33.54	-23 20.7	2.682	3.574	9.0	20.8	7 20	17 17.60	-59 22.1	1.294	2.113	21.0	20.0
7 30	17 27.80	-24 7.6	2.769	3.566	11.5	21.0	7 30	17 16.11	-56 29.9	1.359	2.128	22.5	20.2
435713	2008 <i>UF</i> ₂₆		6 20.8 97°84'	6.6/20.4	18								

EPHEMERIDES

6 20.8

6 20.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
29601	1998 <i>KK</i> ₃₁		6 20.8 103°24	0°2/20.8	18		253746	2003 <i>WX</i> ₆₆		6 20.8 121°00	0°4/20.8	18	
5 21	18 22.15	-21 41.6	2.487	3.366	9.9	19.0	5 21	18 26.40	-23 54.5	1.674	2.564	13.4	20.7
5 31	18 15.59	-22 4.4	2.436	3.387	7.0	18.8	5 31	18 19.15	-24 6.0	1.620	2.577	9.4	20.5
6 10	18 7.63	-22 28.1	2.410	3.408	3.7	18.6	6 10	18 9.73	-24 16.6	1.589	2.589	5.0	20.3
6 20	17 58.92	-22 51.1	2.412	3.428	0.3	18.4	6 20	17 59.11	-24 24.2	1.585	2.601	0.5	20.0
6 30	17 50.24	-23 12.5	2.444	3.448	3.1	18.6	6 30	17 48.52	-24 28.0	1.607	2.612	4.3	20.3
7 10	17 42.35	-23 31.7	2.504	3.468	6.3	18.9	7 10	17 39.17	-24 28.5	1.656	2.623	8.6	20.6
7 20	17 35.88	-23 49.0	2.590	3.487	9.1	19.1	7 20	17 31.98	-24 27.0	1.728	2.634	12.4	20.8
7 30	17 31.26	-24 4.8	2.699	3.505	11.5	19.3	7 30	17 27.53	-24 25.4	1.821	2.644	15.6	21.1
485623	2011 <i>UF</i> ₃₆₂		6 20.8 283°52	1°9/20.6	18		177838	2005 <i>NZ</i> ₆₉		6 20.8 212°08	1°5/20.9	18	
5 21	18 22.10	-27 7.7	2.124	3.009	11.1	21.1	5 21	18 22.57	-28 58.1	2.397	3.276	10.3	20.4
5 31	18 16.11	-27 47.3	2.042	2.996	8.0	20.9	5 31	18 16.11	-28 52.1	2.322	3.272	7.4	20.2
6 10	18 8.17	-28 25.5	1.985	2.982	4.5	20.7	6 10	18 8.01	-28 41.2	2.272	3.268	4.2	20.0
6 20	17 58.97	-28 59.3	1.955	2.968	1.9	20.5	6 20	17 58.99	-28 24.1	2.250	3.263	1.6	19.8
6 30	17 49.46	-29 26.6	1.953	2.954	4.2	20.6	6 30	17 49.91	-28 1.0	2.256	3.259	3.6	20.0
7 10	17 40.69	-29 46.5	1.978	2.940	7.8	20.8	7 10	17 41.65	-27 33.2	2.291	3.254	6.8	20.2
7 20	17 33.54	-29 59.7	2.027	2.927	11.1	21.0	7 20	17 34.93	-27 2.7	2.351	3.249	9.9	20.4
7 30	17 28.69	-30 7.8	2.098	2.913	14.1	21.1	7 30	17 30.26	-26 32.0	2.433	3.243	12.5	20.5
342552	2008 <i>UV</i> ₂₄₀		6 20.8 264°70	1°3/20.8	17		416269	2003 <i>FJ</i> ₁₀₈		6 20.8 72°27	3°1/20.9	17	
5 21	18 23.70	-27 6.8	1.905	2.793	12.1	21.0	5 21	18 24.24	-15 26.6	1.560	2.449	14.2	20.9
5 31	18 17.32	-27 6.8	1.824	2.779	8.7	20.7	5 31	18 17.51	-15 25.5	1.519	2.472	10.2	20.7
6 10	18 8.82	-27 2.7	1.768	2.766	4.8	20.5	6 10	18 8.79	-15 31.8	1.500	2.494	6.1	20.5
6 20	17 59.02	-26 53.1	1.737	2.752	1.3	20.2	6 20	17 59.04	-15 45.1	1.507	2.517	3.1	20.4
6 30	17 49.00	-26 37.4	1.734	2.738	4.2	20.4	6 30	17 49.45	-16 4.4	1.539	2.540	5.2	20.6
7 10	17 39.91	-26 16.8	1.757	2.724	8.3	20.6	7 10	17 41.13	-16 28.7	1.598	2.563	9.1	20.9
7 20	17 32.68	-25 53.5	1.805	2.710	12.0	20.8	7 20	17 34.91	-16 56.8	1.679	2.585	12.7	21.1
7 30	17 27.99	-25 30.2	1.874	2.695	15.2	21.0	7 30	17 31.29	-17 27.7	1.781	2.607	15.8	21.4
346124	2007 <i>VV</i> ₁₆₅		6 20.8 55°18	0°7/20.7	18		20745	2000 <i>AS</i> ₁₈₅		6 20.8 284°32	1°2/20.9	18	
5 21	18 21.94	-24 27.1	1.967	2.857	11.7	20.7	5 21	18 23.17	-18 5.4	1.816	2.703	12.6	17.1
5 31	18 15.90	-24 46.9	1.902	2.859	8.3	20.5	5 31	18 17.12	-18 42.6	1.727	2.682	9.1	16.8
6 10	18 7.98	-25 6.0	1.861	2.860	4.4	20.2	6 10	18 8.85	-19 27.1	1.663	2.661	5.1	16.6
6 20	17 58.96	-25 22.6	1.846	2.862	0.8	19.9	6 20	17 59.07	-20 16.6	1.625	2.640	1.3	16.2
6 30	17 49.83	-25 35.4	1.859	2.864	3.9	20.2	6 30	17 48.80	-21 8.6	1.614	2.618	4.3	16.4
7 10	17 41.62	-25 44.2	1.898	2.866	7.7	20.4	7 10	17 39.24	-22 0.8	1.630	2.597	8.7	16.6
7 20	17 35.14	-25 50.0	1.962	2.868	11.2	20.6	7 20	17 31.42	-22 51.4	1.670	2.576	12.8	16.8
7 30	17 31.00	-25 54.0	2.048	2.869	14.1	20.8	7 30	17 26.14	-23 39.9	1.731	2.554	16.3	17.0
327828	2006 <i>WM</i> ₄₆		6 20.8 181°53	1°0/20.8	17		435952	2009 <i>DS</i> ₁₇		6 20.8 167°07	0°9/20.8	18	
5 21	18 25.40	-25 42.2	1.759	2.648	12.9	21.4	5 21	18 22.58	-19 35.7	2.419	3.296	10.2	22.4
5 31	18 18.52	-25 51.0	1.692	2.648	9.2	21.2	5 31	18 16.03	-19 53.4	2.350	3.301	7.3	22.2
6 10	18 9.44	-25 57.2	1.650	2.649	5.0	20.9	6 10	18 7.96	-20 13.5	2.308	3.305	4.0	22.0
6 20	17 59.07	-25 58.9	1.633	2.649	1.0	20.6	6 20	17 58.99	-20 35.0	2.293	3.308	0.9	21.7
6 30	17 48.60	-25 55.3	1.644	2.648	4.3	20.9	6 30	17 49.94	-20 56.8	2.308	3.311	3.4	21.9
7 10	17 39.23	-25 47.1	1.681	2.648	8.5	21.1	7 10	17 41.61	-21 18.2	2.351	3.314	6.7	22.2
7 20	17 31.92	-25 36.3	1.741	2.647	12.4	21.4	7 20	17 34.68	-21 39.2	2.420	3.316	9.7	22.4
7 30	17 27.29	-25 25.1	1.823	2.645	15.6	21.6	7 30	17 29.68	-21 59.9	2.511	3.317	12.3	22.5
144590	2004 <i>FM</i> ₄₁		6 20.8 125°04	4°2/20.6	18		476395	2008 <i>CQ</i> ₁₇₁		6 20.8 318°92	1°5/20.9	18	
5 21	18 24.77	-12 49.0	1.956	2.829	12.5	20.6	5 21	18 21.92	-28 28.2	1.965	2.854	11.7	20.8
5 31	18 17.58	-12 16.8	1.905	2.847	9.3	20.4	5 31	18 15.94	-28 16.9	1.892	2.847	8.4	20.5
6 10	18 8.73	-11 51.8	1.879	2.864	6.0	20.2	6 10	18 8.03	-28 0.2	1.842	2.840	4.7	20.3
6 20	17 59.02	-11 35.3	1.879	2.881	4.2	20.1	6 20	17 59.00	-27 36.9	1.819	2.834	1.5	20.1
6 30	17 49.41	-11 28.0	1.906	2.897	5.6	20.3	6 30	17 49.89	-27 7.4	1.823	2.827	4.0	20.2
7 10	17 40.83	-11 29.8	1.961	2.912	8.6	20.5	7 10	17 41.75	-26 33.4	1.854	2.821	7.8	20.4
7 20	17 33.99	-11 40.1	2.040	2.926	11.7	20.7	7 20	17 35.40	-25 57.7	1.909	2.815	11.4	20.7
7 30	17 29.36	-11 57.6	2.140	2.940	14.3	20.9	7 30	17 31.44	-25 22.9	1.985	2.810	14.4	20.8
118314	1998 <i>WG</i> ₁₁		6 20.8 217°03	0°6/20.8	17		128687	2004 <i>RV</i> ₈₁		6 20.8 318°70	2°5/20.6	17	
5 21	18 26.87	-20 58.9	1.635	2.523	13.7	20.3	5 21	18 21.41	-19 49.9	1.093	2.008	16.8	19.7
5 31	18 19.78	-21 16.0	1.561	2.516	9.8	20.0	5 31	18 16.73	-19 22.9	1.021	1.989	12.2	19.4
6 10	18 10.24	-21 35.8	1.510	2.509	5.3	19.7	6 10	18 8.95	-18 58.3	0.969	1.970	6.9	19.0
6 20	17 59.15	-21 56.3	1.484	2.500	0.7	19.4	6 20	17 59.10	-18 36.9	0.938	1.952	2.6	18.7
6 30	17 47.76	-22 15.9	1.486	2.491	4.6	19.6	6 30	17 48.77	-18 20.3	0.930	1.935	6.4	18.9
7 10	17 37.40	-22 33.9	1.514	2.482	9.3	19.9	7 10	17 39.72	-18 10.0	0.943	1.919	12.1	19.1
7 20	17 29.18	-22 50.5	1.566	2.471	13.5	20.1	7 20	17 33.40	-18 7.3	0.976	1.904	17.4	19.4
7 30	17 23.84	-23 6.9	1.638	2.460	17.1	20.3	7 30	17 30.74	-18 12.6	1.025	1.890	22.0	19.6
489619	2007 <i>TC</i> ₂₇₈		6 20.8 219°46	1°0/20.7	17		468909	2014 <i>KZ</i> ₄₄		6 20.8 252°63	49°6/21.0	18	
5 21	18 26.08	-21 7.5	1.775	2.661	12.9	22.7	5 21	19 10.14	+35 15.7	0.521	1.269	49.6	21.3
5 31	18 19.02	-20 59.3	1.698	2.653	9.2	22.5	5 31	18 59.75	+47 46.8	0.525	1.241	52.8	21.4
6 10	18 9.75	-20 51.9	1.645	2.644	5.0	22.2	6 10	18 38.57	+58 25.8	0.548	1.208	56.6	21.6
6 20	17 59.11	-20 44.6	1.619	2.634	1.1	21.9	6 20	18 1.98	+66 37.4	0.579	1.169	60.4	21.7
6 30	17 48.25	-20 37.4	1.619	2.624	4.4	22.1	6 30	17 5.16	+72 12.4	0.612	1.124	63.9	21.9
7 10	17 38.38	-20 30.9	1.647	2.612	8.8	22.4	7 10	15 48.10	+75 16.0	0.640	1.074	67.3	22.0
7 20	17 30.47	-20 26.3	1.698	2.601	12.8	22.6	7 20	14 21.37	+76 2.0	0.658	1.019	70.9	22.0
7 30	17 25.21	-20 24.7	1.771	2.588	16.2	22.8	7 30	13 0.29	+74 53.7	0.664	0.960	75.0	22.0
17717	1997 <i>XL</i>		6 20.8 145°02	2°8/20.7	18		4250						

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
280116	2002 <i>GH</i> ₁₈₆		6 20.8	88°09'	7.3°/20.5	17	161833	2006 <i>XC</i> ₄₉		6 20.8	243°07'	0.7°/20.8	18
5 21	18 22.30	- 5 21.0	1.846	2.705	13.7	20.7	5 21	18 21.54	-26 11.3	2.444	3.326	10.0	20.9
5 31	18 15.90	- 4 22.2	1.802	2.724	10.9	20.5	5 31	18 15.40	-26 3.1	2.364	3.316	7.1	20.7
6 10	18 7.87	- 3 37.3	1.782	2.743	8.5	20.4	6 10	18 7.68	-25 51.8	2.308	3.306	3.9	20.5
6 20	17 59.01	- 3 9.0	1.786	2.762	7.3	20.4	6 20	17 59.03	-25 36.7	2.280	3.296	0.7	20.2
6 30	17 50.27	- 2 58.9	1.816	2.780	8.2	20.5	6 30	17 50.27	-25 18.0	2.281	3.286	3.3	20.4
7 10	17 42.55	- 3 6.3	1.871	2.798	10.5	20.7	7 10	17 42.24	-24 56.5	2.310	3.275	6.7	20.6
7 20	17 36.54	- 3 28.9	1.949	2.816	13.0	20.9	7 20	17 35.64	-24 33.8	2.365	3.264	9.8	20.8
7 30	17 32.70	- 4 3.6	2.046	2.834	15.3	21.1	7 30	17 30.99	-24 11.8	2.442	3.253	12.4	20.9
221923	Jayeff		6 20.8	294°51'	2°3°/20.7	18	200258	1999 <i>VF</i> ₂₃₁		6 20.8	173°69'	1°3°/20.9	18
5 21	18 23.01	-18 45.6	1.486	2.383	14.3	20.5	5 21	18 22.71	-17 57.0	2.501	3.376	10.1	21.3
5 31	18 17.36	-18 30.6	1.399	2.358	10.4	20.2	5 31	18 16.11	-18 14.9	2.431	3.379	7.2	21.1
6 10	18 9.13	-18 19.1	1.333	2.332	6.0	19.8	6 10	18 8.02	-18 36.4	2.386	3.382	4.0	20.9
6 20	17 59.13	-18 11.2	1.292	2.306	2.3	19.5	6 20	17 59.06	-19 0.4	2.370	3.384	1.4	20.7
6 30	17 48.61	-18 7.3	1.276	2.279	5.4	19.7	6 30	17 50.00	-19 25.8	2.383	3.385	3.4	20.9
7 10	17 38.98	-18 10.0	1.284	2.253	10.4	19.9	7 10	17 41.63	-19 52.0	2.424	3.386	6.6	21.1
7 20	17 31.46	-18 8.8	1.315	2.227	15.0	20.1	7 20	17 34.59	-20 18.5	2.492	3.386	9.5	21.3
7 30	17 26.93	-18 25.2	1.364	2.202	19.1	20.3	7 30	17 29.41	-20 45.0	2.584	3.386	12.1	21.4
34413	2000 <i>RS</i> ₁₀₁		6 20.8	321°78'	0°1°/20.8	18	68169	2001 <i>BD</i> ₃₂		6 20.8	185°42'	5°5°/21.2	18
5 21	18 21.55	-25 47.1	1.788	2.682	12.4	17.7	5 21	18 21.44	- 7 7.2	2.106	2.966	12.3	19.9
5 31	18 15.83	-25 12.0	1.709	2.667	8.9	17.5	5 31	18 15.37	- 6 58.6	2.038	2.966	9.5	19.7
6 10	18 8.05	-24 31.8	1.653	2.653	4.8	17.2	6 10	18 7.68	- 7 2.0	1.994	2.966	6.9	19.6
6 20	17 59.04	-23 46.7	1.623	2.639	0.4	16.8	6 20	17 59.04	- 7 18.2	1.975	2.965	5.5	19.5
6 30	17 49.88	-22 58.4	1.620	2.626	4.1	17.1	6 30	17 50.29	- 7 47.1	1.984	2.964	6.4	19.5
7 10	17 41.71	-22 9.5	1.643	2.613	8.5	17.3	7 10	17 42.30	- 8 27.3	2.019	2.963	8.9	19.7
7 20	17 35.43	-21 23.2	1.690	2.600	12.4	17.6	7 20	17 35.77	- 9 16.4	2.079	2.961	11.7	19.9
7 30	17 31.66	-20 42.1	1.758	2.589	15.7	17.7	7 30	17 31.26	-10 11.9	2.160	2.959	14.2	20.0
196534	2003 <i>OR</i> ₂₁		6 20.8	263°03'	4°3°/21.2	18	72871	2001 <i>JM</i> ₃		6 20.8	49°68'	2°5°/20.6	18
5 21	18 22.07	-10 39.2	1.975	2.846	12.5	19.9	5 21	18 22.15	-18 40.1	1.612	2.506	13.5	19.0
5 31	18 16.07	-10 45.5	1.890	2.830	9.4	19.7	5 31	18 16.09	-18 6.0	1.563	2.520	9.7	18.8
6 10	18 8.17	-11 2.6	1.829	2.813	6.3	19.4	6 10	18 8.08	-17 34.9	1.537	2.535	5.5	18.6
6 20	17 59.05	-11 30.8	1.794	2.796	4.3	19.3	6 20	17 59.06	-17 8.1	1.537	2.549	2.5	18.4
6 30	17 49.62	-12 9.3	1.787	2.779	5.7	19.3	6 30	17 50.15	-16 46.7	1.562	2.564	5.0	18.6
7 10	17 40.87	-12 56.6	1.806	2.762	8.9	19.5	7 10	17 42.44	-16 31.8	1.613	2.579	8.9	18.9
7 20	17 33.66	-13 50.4	1.850	2.744	12.3	19.7	7 20	17 36.72	-16 23.8	1.687	2.594	12.6	19.2
7 30	17 28.67	-14 48.5	1.915	2.726	15.3	19.8	7 30	17 33.51	-16 22.6	1.781	2.610	15.6	19.4
512066	2015 <i>MC</i> ₁₂₅		6 20.8	325°83'	10°2°/22.2	18	74680	1999 <i>RW</i> ₁₁₅		6 20.8	312°53'	4°5°/20.7	18
5 21	18 18.67	+ 7 1.5	2.101	2.904	14.3	20.5	5 21	18 20.93	-15 9.1	1.211	2.117	16.2	18.7
5 31	18 13.44	+ 7 22.7	2.033	2.897	12.5	20.4	5 31	18 16.28	-14 43.6	1.129	2.089	12.1	18.4
6 10	18 6.65	+ 7 22.0	1.986	2.891	11.0	20.3	6 10	18 8.73	-14 26.2	1.066	2.062	7.6	18.1
6 20	17 58.93	+ 6 56.9	1.962	2.884	10.3	20.2	6 20	17 59.15	-14 18.9	1.025	2.035	4.6	17.8
6 30	17 51.08	+ 6 6.5	1.961	2.878	10.6	20.2	6 30	17 48.92	-14 23.1	1.008	2.009	7.2	17.9
7 10	17 43.93	+ 4 53.4	1.984	2.872	11.9	20.3	7 10	17 39.66	-14 39.3	1.012	1.983	12.2	18.0
7 20	17 38.17	+ 3 21.7	2.029	2.867	13.7	20.4	7 20	17 32.78	-15 6.4	1.037	1.958	17.3	18.2
7 30	17 34.35	+ 1 36.9	2.095	2.862	15.6	20.5	7 30	17 29.31	-15 42.7	1.078	1.934	21.8	18.5
239064	2006 <i>FA</i> ₄₂		6 20.8	176°08'	1°9°/20.7	17	293265	2007 <i>CW</i> ₂₄		6 20.8	219°71'	3°0°/20.9	18
5 21	18 24.37	-28 7.2	2.188	3.068	11.1	21.5	5 21	18 22.59	-33 4.8	2.413	3.287	10.4	20.5
5 31	18 17.54	-28 31.9	2.119	3.070	7.9	21.3	5 31	18 16.21	-33 15.4	2.340	3.284	7.7	20.3
6 10	18 8.86	-28 53.1	2.076	3.071	4.5	21.1	6 10	18 8.14	-33 18.8	2.293	3.281	4.8	20.1
6 20	17 59.10	-29 8.4	2.060	3.072	1.9	20.9	6 20	17 59.09	-33 13.2	2.272	3.278	3.0	20.0
6 30	17 49.22	-29 16.4	2.072	3.073	4.0	21.1	6 30	17 49.97	-32 58.0	2.280	3.275	4.4	20.1
7 10	17 40.23	-29 17.5	2.111	3.073	7.4	21.3	7 10	17 41.70	-32 34.3	2.315	3.272	7.1	20.2
7 20	17 32.93	-29 13.1	2.176	3.073	10.6	21.5	7 20	17 35.01	-32 4.3	2.375	3.268	10.0	20.4
7 30	17 27.91	-29 5.4	2.263	3.072	13.4	21.7	7 30	17 30.45	-31 31.2	2.458	3.265	12.5	20.6
346712	2008 <i>YC</i> ₁₆₉		6 20.8	168°12'	0°3°/20.8	18	498658	2008 <i>SQ</i> ₁₁₅		6 20.8	185°18'	11°5°/20.3	17
5 21	18 22.52	-23 18.2	1.982	2.870	11.7	21.1	5 21	18 20.37	+ 7 24.8	2.004	2.805	15.0	21.3
5 31	18 16.32	-23 38.4	1.915	2.871	8.3	20.9	5 31	18 14.65	+ 8 35.2	1.947	2.805	13.3	21.2
6 10	18 8.25	-23 58.9	1.872	2.872	4.4	20.6	6 10	18 7.31	+ 9 24.1	1.912	2.805	12.0	21.1
6 20	17 59.06	-24 17.9	1.856	2.872	0.4	20.3	6 20	17 59.03	+ 9 47.5	1.899	2.805	11.5	21.0
6 30	17 49.74	-24 34.1	1.868	2.873	3.8	20.6	6 30	17 50.67	+ 9 43.2	1.908	2.804	11.9	21.1
7 10	17 41.31	-24 47.1	1.906	2.873	7.7	20.8	7 10	17 43.11	+ 9 12.4	1.940	2.803	13.2	21.1
7 20	17 34.61	-24 57.5	1.969	2.873	11.2	21.1	7 20	17 37.05	+ 8 18.4	1.992	2.802	14.9	21.3
7 30	17 30.23	-25 6.5	2.054	2.874	14.2	21.3	7 30	17 33.04	+ 7 6.5	2.062	2.801	16.6	21.4
177645	2004 <i>PQ</i> ₈₉		6 20.8	338°87'	5°7°/20.8	18	482121	2010 <i>OZ</i> ₄₂		6 20.8	254°19'	3°3°/21.0	18
5 21	18 18.17	- 8 48.1	1.876	2.752	12.8	19.4	5 21	18 23.02	-34 35.1	2.544	3.413	10.1	21.7
5 31	18 13.25	- 8 19.8	1.807	2.745	9.9	19.2	5 31	18 16.51	-34 40.2	2.462	3.401	7.5	21.6
6 10	18 6.61	- 8 2.4	1.761	2.738	7.2	19.0	6 10	18 8.30	-34 37.1	2.404	3.389	4.9	21.4
6 20	17 58.94	- 7 57.9	1.739	2.732	5.7	18.9	6 20	17 59.11	-34 24.1	2.373	3.377	3.3	21.2
6 30	17 51.13	- 8 7.1	1.743	2.726	6.8	19.0	6 30	17 49.79	-34 0.6	2.371	3.364	4.5	21.3
7 10	17 44.11	- 8 29.5	1.772	2.721	9.5	19.1	7 10	17 41.28	-33 27.9	2.397	3.351	7.1	21.4
7 20	17 38.65	- 9 3.1	1.824	2.716	12.6	19.3	7 20	17 34.30	-32 48.5	2.448	3.338	9.8	21.6
7 30	17 35.31	- 9 45.6	1.897	2.712	15.3	19.5	7 30	17 29.41	-32 5.7	2.521	3.325	12.3	21.8
200183	1999 <i>RO</i>		6 20.8	258°80'	7°9°/20.8	18	13						

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
69695	1998 <i>HL</i> ₃₆		6 20.8 169°39'	4.1°/20.6	18		508457	2016 <i>NB</i> ₁₇		6 20.8 11°44'	0.2°/20.8	17	
5 21	18 29.84	-33 28.7	2.022	2.892	12.3	19.2	5 21	18 23.78	-26 20.6	1.364	2.267	15.0	19.8
5 31	18 21.63	-34 11.0	1.957	2.898	9.1	19.0	5 31	18 17.66	-25 21.5	1.306	2.269	10.6	19.5
6 10	18 11.16	-34 45.1	1.917	2.902	5.9	18.8	6 10	18 9.09	-24 15.3	1.270	2.272	5.7	19.3
6 20	17 59.33	-35 7.2	1.904	2.906	4.1	18.7	6 20	17 59.20	-23 3.7	1.259	2.275	0.5	18.9
6 30	17 47.37	-35 14.8	1.919	2.909	5.6	18.8	6 30	17 49.41	-21 50.4	1.273	2.279	4.9	19.2
7 10	17 36.53	-35 8.9	1.961	2.911	8.7	19.0	7 10	17 41.10	-20 40.3	1.311	2.284	9.8	19.5
7 20	17 27.80	-34 52.4	2.027	2.912	11.8	19.2	7 20	17 35.24	-19 37.8	1.372	2.290	14.2	19.8
7 30	17 21.83	-34 29.5	2.116	2.913	14.6	19.4	7 30	17 32.40	-18 45.8	1.453	2.296	17.8	20.0
125877	2001 <i>XV</i> ₁₉₇		6 20.8 161°59'	2.2°/21.1	18		438987	2010 <i>RC</i> ₆₅		6 20.8 278°95'	0.9°/20.8	18	
5 21	18 26.69	-30 54.2	2.003	2.881	12.0	20.3	5 21	18 21.62	-26 27.5	2.226	3.111	10.7	21.3
5 31	18 19.20	-30 39.9	1.937	2.886	8.7	20.1	5 31	18 15.68	-26 26.9	2.140	3.094	7.6	21.1
6 10	18 9.74	-30 17.6	1.895	2.889	5.1	19.9	6 10	18 7.95	-26 23.2	2.079	3.077	4.2	20.8
6 20	17 59.21	-29 46.1	1.881	2.893	2.2	19.7	6 20	17 59.13	-26 15.3	2.044	3.060	1.0	20.5
6 30	17 48.74	-29 6.0	1.894	2.896	4.3	19.9	6 30	17 50.09	-26 2.8	2.038	3.042	3.6	20.7
7 10	17 39.42	-28 19.8	1.935	2.898	7.9	20.1	7 10	17 41.79	-25 46.7	2.059	3.025	7.3	20.9
7 20	17 32.07	-27 31.1	2.001	2.901	11.3	20.3	7 20	17 35.03	-25 28.3	2.105	3.007	10.7	21.1
7 30	17 27.24	-26 43.4	2.089	2.902	14.2	20.5	7 30	17 30.42	-25 9.8	2.173	2.990	13.6	21.2
498403	2007 <i>YP</i> ₄₃		6 20.8 197°89'	0.2°/20.8	17		354172	2002 <i>CG</i> ₂₈₂		6 20.8 98°21'	1.2°/20.9	18	
5 21	18 26.15	-23 16.7	1.847	2.733	12.5	22.7	5 21	18 21.77	-27 10.9	2.294	3.177	10.5	21.3
5 31	18 19.04	-23 28.4	1.775	2.730	8.9	22.4	5 31	18 15.56	-27 13.6	2.233	3.186	7.4	21.1
6 10	18 9.79	-23 39.8	1.728	2.727	4.8	22.2	6 10	18 7.77	-27 12.9	2.198	3.195	4.1	20.9
6 20	17 59.23	-23 49.3	1.707	2.723	0.4	21.8	6 20	17 59.11	-27 7.6	2.190	3.204	1.2	20.7
6 30	17 48.50	-23 55.7	1.713	2.718	4.1	22.1	6 30	17 50.47	-26 57.6	2.209	3.213	3.5	20.9
7 10	17 38.75	-23 59.2	1.747	2.713	8.3	22.4	7 10	17 42.70	-26 43.8	2.257	3.222	6.8	21.1
7 20	17 30.94	-24 0.9	1.805	2.707	12.2	22.6	7 20	17 36.49	-26 27.6	2.329	3.230	9.8	21.3
7 30	17 25.73	-24 2.3	1.884	2.701	15.4	22.8	7 30	17 32.32	-26 10.9	2.424	3.239	12.4	21.5
197487	2004 <i>BV</i> ₃₈		6 20.8 309°06'	1°1'/20.9	18		509769	2008 <i>UW</i> ₆₉		6 20.8 268°27'	1°8'/20.8	17	
5 21	18 21.21	-19 40.2	1.787	2.679	12.5	19.5	5 21	18 22.88	-18 32.9	1.950	2.835	12.0	22.2
5 31	18 15.63	-19 56.2	1.712	2.669	9.0	19.3	5 31	18 16.76	-18 29.4	1.861	2.815	8.7	22.0
6 10	18 8.01	-20 16.2	1.660	2.660	4.9	19.0	6 10	18 8.64	-18 29.3	1.796	2.793	4.9	21.7
6 20	17 59.10	-20 38.8	1.635	2.650	1.1	18.7	6 20	17 59.20	-18 32.3	1.758	2.771	1.8	21.5
6 30	17 49.94	-21 2.8	1.636	2.641	4.2	19.0	6 30	17 49.41	-18 38.1	1.747	2.749	4.4	21.6
7 10	17 41.64	-21 27.1	1.663	2.632	8.4	19.2	7 10	17 40.35	-18 46.6	1.762	2.727	8.4	21.8
7 20	17 35.12	-21 51.5	1.713	2.623	12.3	19.4	7 20	17 32.93	-18 58.0	1.802	2.704	12.2	22.0
7 30	17 31.07	-22 15.9	1.785	2.614	15.6	19.6	7 30	17 27.85	-19 12.5	1.863	2.681	15.5	22.1
302364	2002 <i>CX</i> ₁		6 20.8 188°79'	1°3'/20.9	18		198480	2004 <i>XW</i> ₄₀		6 20.8 317°08'	2°7'/20.7	18	
5 21	18 20.58	-17 43.4	2.709	3.584	9.4	21.5	5 21	18 22.37	-27 51.0	1.358	2.263	14.9	19.3
5 31	18 14.57	-18 0.3	2.634	3.583	6.7	21.3	5 31	18 17.49	-28 20.7	1.264	2.226	10.9	18.9
6 10	18 7.20	-18 20.7	2.586	3.581	3.8	21.1	6 10	18 9.53	-28 48.3	1.190	2.190	6.4	18.6
6 20	17 59.04	-18 43.8	2.566	3.580	1.4	20.9	6 20	17 59.30	-29 9.7	1.140	2.153	2.7	18.2
6 30	17 50.77	-19 8.7	2.575	3.578	3.2	21.0	6 30	17 48.20	-29 21.4	1.114	2.118	5.9	18.3
7 10	17 43.08	-19 34.7	2.613	3.575	6.2	21.2	7 10	17 37.96	-29 22.5	1.111	2.083	11.2	18.5
7 20	17 36.59	-20 1.2	2.678	3.572	8.9	21.4	7 20	17 30.13	-29 15.0	1.128	2.048	16.3	18.7
7 30	17 31.76	-20 28.1	2.766	3.569	11.3	21.6	7 30	17 25.88	-29 2.4	1.163	2.015	20.8	18.9
96487	1998 <i>JU</i> ₁		6 20.8 116°83'	9°1'/20.6	18		520110	2014 <i>AK</i> ₄₇		6 20.8 251°23'	1°9'/20.9	17	
5 21	18 26.25	+ 1 28.6	2.077	2.896	13.9	18.7	5 21	18 24.27	-28 51.0	1.899	2.785	12.2	21.0
5 31	18 18.46	+ 2 37.7	2.040	2.924	11.7	18.6	5 31	18 17.75	-28 53.4	1.824	2.777	8.8	20.8
6 10	18 9.18	+ 3 29.2	2.026	2.951	9.8	18.5	6 10	18 9.13	-28 50.3	1.773	2.770	5.0	20.6
6 20	17 59.18	+ 3 59.7	2.038	2.977	9.1	18.5	6 20	17 59.25	-28 40.0	1.749	2.762	2.0	20.4
6 30	17 49.37	+ 4 8.1	2.076	3.002	9.6	18.6	6 30	17 49.21	-28 21.9	1.751	2.754	4.3	20.5
7 10	17 40.57	+ 3 55.5	2.138	3.025	11.2	18.7	7 10	17 40.18	-27 57.4	1.780	2.746	8.2	20.7
7 20	17 33.44	+ 3 25.1	2.224	3.048	13.1	18.9	7 20	17 33.07	-27 29.1	1.834	2.738	11.9	20.9
7 30	17 28.41	+ 2 40.7	2.329	3.069	14.9	19.1	7 30	17 28.53	-27 0.2	1.908	2.730	15.0	21.1
488684	2003 <i>UC</i> ₃₅₄		6 20.8 159°07'	0°8'/20.8	17		431074	2006 <i>CW</i> ₂₁		6 20.8 169°93'	0°1'/20.8	18	
5 21	18 23.36	-24 40.6	2.055	2.940	11.4	22.1	5 21	18 24.11	-22 45.1	2.267	3.147	10.7	21.7
5 31	18 16.88	-25 2.4	1.989	2.943	8.1	21.9	5 31	18 17.27	-23 2.2	2.199	3.151	7.6	21.5
6 10	18 8.56	-25 23.2	1.947	2.946	4.4	21.7	6 10	18 8.73	-23 19.5	2.156	3.154	4.1	21.3
6 20	17 59.15	-25 41.1	1.933	2.949	0.8	21.4	6 20	17 59.22	-23 35.5	2.141	3.157	0.3	21.0
6 30	17 49.63	-25 54.9	1.947	2.951	3.8	21.6	6 30	17 49.60	-23 49.2	2.155	3.159	3.5	21.3
7 10	17 41.01	-26 4.3	1.987	2.953	7.5	21.9	7 10	17 40.81	-24 0.4	2.197	3.161	7.0	21.5
7 20	17 34.11	-26 10.2	2.053	2.955	10.9	22.1	7 20	17 33.57	-24 9.6	2.265	3.162	10.2	21.7
7 30	17 29.49	-26 14.2	2.141	2.957	13.8	22.3	7 30	17 28.43	-24 17.8	2.355	3.163	12.9	21.9
471920	2013 <i>EC</i> ₉₀		6 20.8 119°98'	7°7'/22.1	18		370371	2002 <i>TB</i> ₃₄		6 20.8 247°79'	0°1'/20.8	17	
5 21	18 29.88	-49 54.7	2.532	3.344	11.9	20.5	5 21	18 25.46	-23 28.8	1.848	2.735	12.5	21.8
5 31	18 21.49	-50 14.5	2.471	3.349	10.1	20.3	5 31	18 18.70	-23 28.7	1.763	2.718	8.9	21.5
6 10	18 10.96	-50 16.6	2.433	3.354	8.6	20.2	6 10	18 9.72	-23 27.7	1.702	2.702	4.8	21.2
6 20	17 59.32	-49 57.5	2.419	3.359	7.8	20.2	6 20	17 59.30	-23 24.4	1.668	2.684	0.4	20.8
6 30	17 47.84	-49 16.4	2.432	3.364	8.1	20.2	6 30	17 48.57	-23 18.5	1.661	2.666	4.2	21.1
7 10	17 37.73	-48 16.1	2.469	3.369	9.4	20.3	7 10	17 38.71	-23 10.4	1.681	2.647	8.6	21.3
7 20	17 29.87	-47 1.4	2.531	3.374	11.1	20.4	7 20	17 30.73	-23 1.6	1.725	2.628	12.6	21.5
7 30	17 24.77	-45 38.2	2.615	3.379	12.9	20.6	7 30	17 25.37	-22 53.9	1.789	2.608	16.0	21.7
216269	2006 <i>WP</i> ₈₁		6 20.8 260°88'	0°3'/20.8	18								

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
369985	1998 <i>RK</i> ₈₁		6 20.8 255°52		3°0/20.8 17		522823	2016 <i>NZ</i> ₈₁		6 20.8 274°45		1°0/20.9 17	
5 21	18 23.80	-16 20.9	1.761	2.647	13.1	22.1	5 21	18 22.48	-19 45.8	1.805	2.696	12.5	21.6
5 31	18 17.52	-16 5.7	1.679	2.631	9.6	21.9	5 31	18 16.53	-20 2.7	1.733	2.689	9.0	21.3
6 10	18 9.08	-15 55.5	1.620	2.615	5.7	21.6	6 10	18 8.53	-20 23.4	1.683	2.682	4.9	21.1
6 20	17 59.26	-15 50.8	1.587	2.598	3.0	21.4	6 20	17 59.25	-20 46.3	1.660	2.676	1.1	20.8
6 30	17 49.12	-15 52.1	1.581	2.581	5.2	21.5	6 30	17 49.74	-21 10.2	1.664	2.669	4.2	21.0
7 10	17 39.83	-15 59.3	1.601	2.563	9.3	21.7	7 10	17 41.11	-21 34.2	1.694	2.662	8.4	21.2
7 20	17 32.36	-16 12.5	1.644	2.545	13.2	21.9	7 20	17 34.29	-21 57.9	1.748	2.655	12.2	21.5
7 30	17 27.43	-16 31.1	1.707	2.527	16.6	22.1	7 30	17 29.94	-22 21.4	1.823	2.649	15.4	21.7
237676	2001 <i>TJ</i> ₁₀		6 20.8 318°44		1°8/20.6 18		505563	2014 <i>AX</i> ₄₂		6 20.8 189°21		0°1/20.8 17	
5 21	18 22.20	-24 7.3	1.053	1.970	17.1	19.4	5 21	18 23.85	-22 43.3	2.204	3.085	10.9	22.7
5 31	18 17.75	-24 57.7	0.977	1.947	12.4	19.0	5 31	18 17.16	-22 50.4	2.132	3.085	7.8	22.5
6 10	18 9.82	-25 53.0	0.922	1.924	6.9	18.7	6 10	18 8.72	-22 57.5	2.085	3.083	4.2	22.3
6 20	17 59.34	-26 48.0	0.887	1.903	1.9	18.3	6 20	17 59.26	-23 3.5	2.065	3.081	0.3	22.0
6 30	17 48.00	-27 37.2	0.875	1.882	6.4	18.5	6 30	17 49.68	-23 7.6	2.074	3.079	3.5	22.3
7 10	17 37.86	-28 17.0	0.884	1.862	12.5	18.7	7 10	17 40.92	-23 10.0	2.111	3.076	7.2	22.5
7 20	17 30.68	-28 47.4	0.912	1.843	18.1	19.0	7 20	17 33.75	-23 11.6	2.173	3.072	10.5	22.7
7 30	17 27.67	-29 10.2	0.956	1.825	22.9	19.2	7 30	17 28.72	-23 13.2	2.258	3.068	13.3	22.9
317980	2003 <i>YU</i> ₁₄₉		6 20.8 286°07		1°5/20.7 18		512920	2016 <i>XB</i> ₉		6 20.8 282°18		1°3/20.7 18	
5 21	18 20.06	-27 1.2	2.570	3.452	9.6	20.2	5 21	18 21.26	-26 22.7	2.268	3.153	10.5	20.9
5 31	18 14.42	-27 32.7	2.492	3.444	6.8	20.0	5 31	18 15.46	-26 45.9	2.184	3.138	7.5	20.7
6 10	18 7.24	-28 2.6	2.440	3.437	3.8	19.8	6 10	18 7.89	-27 7.6	2.126	3.123	4.2	20.5
6 20	17 59.11	-28 28.8	2.416	3.429	1.5	19.6	6 20	17 59.20	-27 25.6	2.094	3.108	1.3	20.3
6 30	17 50.81	-28 49.9	2.420	3.422	3.5	19.7	6 30	17 50.26	-27 38.7	2.090	3.093	3.7	20.4
7 10	17 43.14	-29 5.4	2.452	3.414	6.5	19.9	7 10	17 42.01	-27 46.6	2.114	3.078	7.2	20.6
7 20	17 36.77	-29 15.9	2.510	3.407	9.4	20.1	7 20	17 35.25	-27 50.2	2.162	3.063	10.5	20.8
7 30	17 32.27	-29 22.6	2.590	3.399	11.8	20.2	7 30	17 30.60	-27 50.8	2.233	3.048	13.3	20.9
395902	2013 <i>AK</i> ₇₂		6 20.8 180°65		2°9/20.5 18		504477	2008 <i>EK</i> ₈₇		6 20.8 125°34		11°1/21.4 17	
5 21	18 23.50	-30 56.6	2.359	3.236	10.5	21.3	5 21	18 18.92	+13 53.9	2.551	3.298	13.5	21.3
5 31	18 16.97	-31 39.5	2.290	3.237	7.7	21.1	5 31	18 13.38	+14 48.1	2.504	3.307	12.4	21.2
6 10	18 8.64	-32 17.8	2.246	3.237	4.8	20.9	6 10	18 6.58	+15 20.9	2.477	3.315	11.5	21.2
6 20	17 59.23	-32 48.5	2.230	3.237	2.9	20.8	6 20	17 59.09	+15 29.6	2.471	3.323	11.1	21.2
6 30	17 49.65	-33 9.6	2.242	3.237	4.5	20.9	6 30	17 51.60	+15 13.2	2.487	3.331	11.3	21.2
7 10	17 40.85	-33 21.0	2.281	3.236	7.4	21.1	7 10	17 44.77	+14 33.0	2.525	3.339	12.0	21.3
7 20	17 33.64	-33 23.9	2.346	3.236	10.2	21.3	7 20	17 39.17	+13 32.3	2.584	3.346	13.1	21.4
7 30	17 28.61	-33 20.8	2.432	3.235	12.7	21.4	7 30	17 35.21	+12 15.5	2.661	3.354	14.3	21.5
178309	1994 <i>RP</i> ₅		6 20.8 344°03		1°5/20.8 17		435579	2008 <i>RJ</i> ₁₁₃		6 20.8 160°90		4°7/20.6 17	
5 21	18 19.88	-21 17.7	1.135	2.051	16.3	19.6	5 21	18 21.79	- 9 38.1	2.357	3.219	11.1	22.1
5 31	18 15.48	-21 0.9	1.072	2.040	11.7	19.3	5 31	18 15.46	- 9 5.7	2.294	3.225	8.5	21.9
6 10	18 8.23	-20 45.7	1.028	2.031	6.4	19.0	6 10	18 7.71	- 8 41.4	2.255	3.231	6.0	21.8
6 20	17 59.21	-20 32.1	1.007	2.022	1.5	18.6	6 20	17 59.18	- 8 26.6	2.244	3.236	4.7	21.7
6 30	17 49.92	-20 20.8	1.008	2.015	5.6	18.9	6 30	17 50.63	- 8 22.0	2.260	3.241	5.7	21.8
7 10	17 41.98	-20 12.8	1.031	2.009	11.1	19.2	7 10	17 42.82	- 8 27.6	2.304	3.245	8.1	21.9
7 20	17 36.65	-20 9.3	1.075	2.004	16.1	19.4	7 20	17 36.37	- 8 42.4	2.372	3.248	10.6	22.1
7 30	17 34.71	-20 11.0	1.135	2.001	20.3	19.7	7 30	17 31.75	- 9 5.1	2.463	3.251	13.0	22.3
90381	2003 <i>WA</i> ₆₉		6 20.8 336°16		2°1/20.5 18		501653	2014 <i>SO</i> ₂₉₇		6 20.8 183°70		2°1/20.8 17	
5 21	18 22.27	-25 48.5	1.546	2.446	13.7	18.7	5 21	18 26.35	-18 20.4	1.792	2.675	13.0	22.7
5 31	18 16.80	-26 42.8	1.477	2.437	9.8	18.4	5 31	18 19.14	-18 8.8	1.724	2.676	9.3	22.4
6 10	18 8.84	-27 37.8	1.429	2.429	5.5	18.2	6 10	18 9.86	-18 0.5	1.680	2.676	5.3	22.2
6 20	17 59.26	-28 28.9	1.407	2.421	2.2	17.9	6 20	17 59.36	-17 55.3	1.662	2.675	2.1	22.0
6 30	17 49.31	-29 12.4	1.410	2.414	5.1	18.1	6 30	17 48.74	-17 53.2	1.672	2.674	4.7	22.2
7 10	17 40.39	-29 46.4	1.439	2.407	9.5	18.3	7 10	17 39.16	-17 54.7	1.709	2.672	8.7	22.4
7 20	17 33.63	-30 11.4	1.489	2.401	13.6	18.6	7 20	17 31.50	-17 59.9	1.770	2.669	12.5	22.6
7 30	17 29.85	-30 29.3	1.560	2.396	17.1	18.8	7 30	17 26.39	-18 9.2	1.851	2.665	15.7	22.8
199325	2006 <i>BJ</i> ₁₂₂		6 20.8 273°31		0°8/20.8 18		52650	1997 <i>YF</i> ₁₅		6 20.8 9°54		2°9/21.2 18	
5 21	18 22.72	-21 24.8	1.771	2.662	12.7	21.3	5 21	18 21.82	-31 36.6	1.479	2.378	14.3	17.3
5 31	18 16.72	-21 24.4	1.696	2.654	9.0	21.1	5 31	18 16.32	-31 23.2	1.423	2.380	10.4	17.1
6 10	18 8.63	-21 25.2	1.645	2.645	4.9	20.8	6 10	18 8.44	-31 0.0	1.388	2.384	6.2	16.9
6 20	17 59.24	-21 26.5	1.620	2.636	0.9	20.5	6 20	17 59.24	-30 25.6	1.377	2.388	3.0	16.7
6 30	17 49.63	-21 27.8	1.621	2.627	4.2	20.7	6 30	17 50.10	-29 40.9	1.391	2.394	5.2	16.8
7 10	17 40.96	-21 29.3	1.649	2.618	8.5	21.0	7 10	17 42.35	-28 49.3	1.430	2.401	9.3	17.1
7 20	17 34.15	-21 31.7	1.700	2.608	12.4	21.2	7 20	17 36.94	-27 55.3	1.491	2.408	13.2	17.3
7 30	17 29.88	-21 35.9	1.772	2.599	15.8	21.4	7 30	17 34.45	-27 3.1	1.572	2.417	16.6	17.6
128243	2003 <i>SO</i> ₁₇₃		6 20.8 174°34		3°5/20.8 18		348782	2006 <i>KY</i> ₆₁		6 20.8 296°89		5°1/20.4 16	
5 21	18 17.97	-10 53.6	2.896	3.759	9.2	20.7	5 21	18 20.48	-11 48.5	1.791	2.673	13.1	20.9
5 31	18 12.63	-10 39.4	2.826	3.761	6.9	20.5	5 31	18 15.08	-11 8.4	1.712	2.657	9.9	20.6
6 10	18 6.15	-10 31.5	2.782	3.762	4.7	20.4	6 10	18 7.75	-10 35.9	1.657	2.641	6.8	20.4
6 20	17 59.04	-10 30.5	2.766	3.763	3.5	20.3	6 20	17 59.20	-10 13.5	1.626	2.625	5.1	20.3
6 30	17 51.87	-10 36.8	2.778	3.764	4.4	20.4	6 30	17 50.42	-10 2.8	1.621	2.610	6.6	20.3
7 10	17 45.25	-10 49.9	2.818	3.764	6.5	20.5	7 10	17 42.43	-10 4.4	1.641	2.595	9.8	20.5
7 20	17 39.68	-11 9.1	2.883	3.765	8.8	20.7	7 20	17 36.12	-10 17.6	1.685	2.579	13.3	20.7
7 30	17 35.56	-11 33.5	2.972	3.765	10.9	20.8	7 30	17 32.13	-10 40.9	1.748	2.564	16.4	20.8
428178	2006 <i>TH</i> ₈₃		6 20.8 234°65		1°5/20.9 17								

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
86497	2000 <i>DO</i> ₂₉		6 20.8	14 ^o 27	1 ^o 4/20.8	17	434713	2006 <i>DS</i> ₂₄		6 20.8	179 ^o 60	1 ^o 4/20.9	18
5 21	18 21.07	-25 7.1	0.887	1.813	18.5	19.0	5 21	18 23.14	-19 18.2	2.047	2.931	11.6	21.9
5 31	18 16.73	-25 26.5	0.843	1.817	13.2	18.7	5 31	18 16.73	-19 19.4	1.979	2.932	8.3	21.7
6 10	18 9.01	-25 44.4	0.818	1.822	7.2	18.4	6 10	18 8.54	-19 23.2	1.935	2.932	4.6	21.5
6 20	17 59.30	-25 57.4	0.812	1.828	1.5	18.1	6 20	17 59.31	-19 29.1	1.918	2.932	1.4	21.2
6 30	17 49.55	-26 3.4	0.828	1.836	6.1	18.4	6 30	17 49.98	-19 36.7	1.929	2.932	3.9	21.4
7 10	17 41.71	-26 3.2	0.864	1.845	12.0	18.7	7 10	17 41.50	-19 45.7	1.967	2.932	7.6	21.7
7 20	17 37.11	-25 59.2	0.918	1.856	17.2	19.1	7 20	17 34.66	-19 56.3	2.030	2.931	11.1	21.9
7 30	17 36.43	-25 54.0	0.988	1.868	21.5	19.4	7 30	17 30.02	-20 8.7	2.115	2.930	14.0	22.1
510697	2012 <i>UF</i> ₁₃₇		6 20.8	253 ^o 40	1 ^o 6/20.9	17	476913	2008 <i>WF</i> ₅₆		6 20.8	319 ^o 77	7 ^o 0/19.6	16
5 21	18 21.97	-18 30.7	2.024	2.909	11.6	21.9	5 21	18 25.68	-36 8.1	1.540	2.425	14.6	20.6
5 31	18 16.00	-18 34.5	1.945	2.898	8.3	21.6	5 31	18 19.71	-37 38.4	1.469	2.412	11.4	20.3
6 10	18 8.19	-18 42.1	1.891	2.888	4.7	21.4	6 10	18 10.67	-39 1.0	1.419	2.398	8.4	20.1
6 20	17 59.24	-18 52.7	1.863	2.878	1.6	21.2	6 20	17 59.51	-40 7.8	1.394	2.385	7.0	20.0
6 30	17 50.08	-19 5.9	1.864	2.867	4.1	21.3	6 30	17 47.71	-40 52.8	1.393	2.373	8.6	20.1
7 10	17 41.68	-19 21.1	1.890	2.856	7.9	21.5	7 10	17 37.02	-41 14.5	1.416	2.361	11.8	20.2
7 20	17 34.87	-19 38.3	1.942	2.845	11.4	21.7	7 20	17 28.91	-41 15.8	1.461	2.349	15.3	20.4
7 30	17 30.27	-19 57.3	2.015	2.833	14.4	21.9	7 30	17 24.38	-41 2.2	1.523	2.338	18.5	20.6
187697	2008 <i>DZ</i> ₇₃		6 20.8	310 ^o 83	0 ^o 5/20.8	18	363175	2001 <i>TZ</i> ₁₀₉		6 20.8	278 ^o 41	4 ^o 5/20.7	18
5 21	18 20.38	-22 7.9	2.079	2.968	11.2	20.6	5 21	18 27.96	-31 55.7	1.373	2.266	15.5	20.8
5 31	18 14.82	-22 7.7	2.005	2.962	7.9	20.4	5 31	18 21.43	-32 32.7	1.293	2.247	11.6	20.5
6 10	18 7.53	-22 8.0	1.956	2.955	4.3	20.2	6 10	18 11.63	-33 2.2	1.234	2.227	7.3	20.2
6 20	17 59.19	-22 8.1	1.933	2.949	0.6	19.9	6 20	17 59.59	-33 18.7	1.199	2.207	4.6	20.0
6 30	17 50.71	-22 7.7	1.937	2.942	3.7	20.1	6 30	17 46.94	-33 18.3	1.189	2.187	6.9	20.1
7 10	17 43.03	-22 7.0	1.968	2.936	7.4	20.3	7 10	17 35.54	-33 1.5	1.202	2.167	11.4	20.3
7 20	17 36.91	-22 6.8	2.024	2.930	10.8	20.5	7 20	17 26.90	-32 32.5	1.237	2.146	16.0	20.5
7 30	17 32.93	-22 7.7	2.101	2.924	13.8	20.7	7 30	17 22.02	-31 57.3	1.290	2.126	20.0	20.7
387155	2012 <i>TK</i> ₂₃₅		6 20.8	273 ^o 06	3 ^o 6/20.9	17	405445	2004 <i>TU</i> ₈₅		6 20.8	188 ^o 99	3 ^o 6/20.8	17
5 21	18 21.40	-13 45.3	1.849	2.731	12.7	21.0	5 21	18 25.62	-15 26.4	1.594	2.479	14.2	21.4
5 31	18 15.66	-13 40.1	1.777	2.725	9.4	20.7	5 31	18 18.82	-15 3.2	1.528	2.479	10.4	21.2
6 10	18 8.03	-13 42.9	1.728	2.719	5.9	20.5	6 10	18 9.79	-14 46.2	1.486	2.478	6.3	20.9
6 20	17 59.25	-13 53.9	1.705	2.713	3.6	20.4	6 20	17 59.43	-14 36.3	1.468	2.477	3.6	20.7
6 30	17 50.28	-14 12.8	1.709	2.706	5.3	20.5	6 30	17 48.94	-14 34.1	1.477	2.475	5.8	20.9
7 10	17 42.15	-14 38.8	1.739	2.700	8.8	20.7	7 10	17 39.56	-14 39.8	1.511	2.473	9.8	21.1
7 20	17 35.70	-15 10.7	1.793	2.694	12.3	20.9	7 20	17 32.24	-14 52.9	1.569	2.470	13.7	21.3
7 30	17 31.54	-15 46.9	1.867	2.688	15.3	21.0	7 30	17 27.65	-15 12.7	1.646	2.467	17.1	21.5
176361	2001 <i>TM</i> ₁₀₄		6 20.8	271 ^o 90	3 ^o 2/20.5	18	304462	2006 <i>UG</i> ₃₂		6 20.8	344 ^o 81	3 ^o 7/20.6	16
5 21	18 20.55	-15 37.0	2.129	3.010	11.3	19.8	5 21	18 20.09	-14 30.8	1.936	2.820	12.1	20.7
5 31	18 14.85	-15 1.2	2.052	3.000	8.3	19.6	5 31	18 14.61	-13 57.1	1.869	2.818	8.9	20.5
6 10	18 7.52	-14 29.3	1.999	2.990	5.2	19.4	6 10	18 7.42	-13 29.0	1.826	2.816	5.7	20.3
6 20	17 59.21	-14 2.5	1.973	2.981	3.2	19.3	6 20	17 59.24	-13 7.9	1.809	2.815	3.7	20.2
6 30	17 50.78	-13 42.0	1.975	2.971	4.9	19.4	6 30	17 50.99	-12 55.0	1.819	2.813	5.3	20.3
7 10	17 43.08	-13 28.9	2.003	2.961	8.1	19.5	7 10	17 43.59	-12 50.7	1.854	2.812	8.5	20.5
7 20	17 36.86	-13 23.3	2.056	2.950	11.2	19.7	7 20	17 37.77	-12 54.8	1.913	2.811	11.8	20.7
7 30	17 32.66	-13 25.1	2.130	2.940	14.0	19.9	7 30	17 34.09	-13 6.5	1.993	2.810	14.6	20.9
283089	2008 <i>TN</i> ₁₁₇		6 20.8	222 ^o 20	1 ^o 4/20.8	17	240558	2004 <i>RU</i> ₅₀		6 20.8	229 ^o 12	1 ^o 2/20.9	17 R
5 21	18 22.70	-20 28.8	1.883	2.771	12.2	20.7	5 21	18 24.76	-26 49.4	2.234	3.113	10.9	21.8
5 31	18 16.53	-20 11.8	1.813	2.769	8.7	20.5	5 31	18 17.94	-26 58.0	2.150	3.101	7.8	21.6
6 10	18 8.46	-19 55.9	1.768	2.766	4.8	20.3	6 10	18 9.25	-27 3.4	2.092	3.089	4.3	21.3
6 20	17 59.29	-19 41.2	1.749	2.764	1.4	20.0	6 20	17 59.40	-27 4.1	2.061	3.076	1.2	21.1
6 30	17 50.02	-19 28.2	1.758	2.761	4.2	20.2	6 30	17 49.33	-26 59.2	2.059	3.062	3.7	21.2
7 10	17 41.69	-19 17.5	1.792	2.759	8.1	20.4	7 10	17 40.04	-26 49.3	2.084	3.047	7.4	21.4
7 20	17 35.12	-19 10.2	1.851	2.756	11.8	20.7	7 20	17 32.37	-26 35.9	2.135	3.032	10.7	21.6
7 30	17 30.90	-19 6.9	1.931	2.753	14.9	20.9	7 30	17 26.94	-26 21.3	2.208	3.017	13.6	21.8
263488	2008 <i>EE</i> ₈₉		6 20.8	108 ^o 45	2 ^o 8/20.6	18	256674	2007 <i>YQ</i> ₁₆		6 20.8	298 ^o 06	0 ^o 3/20.9	17
5 21	18 22.94	-30 19.4	2.273	3.153	10.7	20.1	5 21	18 24.71	-24 54.4	1.308	2.212	15.4	21.1
5 31	18 16.61	-31 2.7	2.209	3.157	7.8	19.9	5 31	18 19.00	-24 41.6	1.224	2.187	11.1	20.7
6 10	18 8.48	-31 41.7	2.170	3.162	4.8	19.7	6 10	18 10.28	-24 25.3	1.162	2.163	6.1	20.4
6 20	17 59.29	-32 13.3	2.158	3.166	2.8	19.6	6 20	17 59.51	-24 4.0	1.122	2.138	0.6	19.9
6 30	17 49.96	-32 35.7	2.174	3.171	4.4	19.7	6 30	17 48.16	-23 37.7	1.107	2.114	5.3	20.2
7 10	17 41.47	-32 48.5	2.218	3.175	7.4	19.9	7 10	17 37.94	-23 8.6	1.116	2.090	11.0	20.4
7 20	17 34.60	-32 53.2	2.286	3.179	10.3	20.1	7 20	17 30.25	-22 39.8	1.145	2.066	16.1	20.6
7 30	17 29.93	-32 52.0	2.376	3.183	12.9	20.3	7 30	17 26.06	-22 14.8	1.193	2.042	20.5	20.8
504924	2011 <i>BN</i> ₁₀₇		6 20.8	259 ^o 99	0 ^o 7/20.8	18	113568	2002 <i>TY</i> ₃₆		6 20.8	322 ^o 56	0 ^o 9/20.8	18
5 21	18 24.14	-22 27.2	1.670	2.563	13.2	21.1	5 21	18 22.19	-25 12.2	1.826	2.719	12.3	19.3
5 31	18 17.83	-22 12.0	1.596	2.554	9.4	20.9	5 31	18 16.36	-25 28.3	1.756	2.714	8.8	19.1
6 10	18 9.28	-21 56.1	1.545	2.545	5.1	20.6	6 10	18 8.48	-25 43.0	1.710	2.710	4.8	18.8
6 20	17 59.36	-21 39.2	1.520	2.536	0.8	20.3	6 20	17 59.35	-25 54.4	1.690	2.705	1.0	18.6
6 30	17 49.25	-21 21.6	1.521	2.527	4.4	20.5	6 30	17 50.04	-26 1.4	1.696	2.701	4.1	18.8
7 10	17 40.17	-21 4.7	1.549	2.517	9.0	20.8	7 10	17 41.69	-26 4.0	1.729	2.697	8.2	19.0
7 20	17 33.11	-20 49.9	1.599	2.508	13.0	21.0	7 20	17 35.19	-26 3.4	1.785	2.694	11.9	19.2
7 30	17 28.76	-20 39.0	1.670	2.498	16.5								

EPHEMERIDES

6 20.9

6 20.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
33462	Tophergee 6 20.9 103°86 1.4°/20.9 18						242068	2002 TY ₇₈ 6 20.9 336°54 5.3°/19.7 18					
5 21	18 27.16	-26 23.5	1.401	2.297	15.0	18.3	5 21	18 18.49	-29 14.7	1.158	2.073	16.0	18.9
5 31	18 20.19	-26 31.9	1.346	2.305	10.7	18.0	5 31	18 15.17	-30 45.5	1.075	2.041	11.9	18.5
6 10	18 10.60	-26 36.5	1.313	2.312	5.9	17.8	6 10	18 8.56	-32 19.3	1.013	2.010	7.7	18.2
6 20	17 59.52	-26 35.0	1.304	2.319	1.5	17.5	6 20	17 59.44	-33 48.0	0.973	1.981	5.3	18.0
6 30	17 48.43	-26 26.5	1.321	2.326	5.0	17.8	6 30	17 49.31	-35 3.2	0.955	1.953	8.1	18.0
7 10	17 38.81	-26 12.5	1.363	2.333	9.7	18.0	7 10	17 40.14	-35 59.5	0.958	1.927	13.0	18.2
7 20	17 31.74	-25 55.7	1.427	2.340	14.0	18.3	7 20	17 33.73	-36 36.1	0.981	1.904	17.9	18.4
7 30	17 27.86	-25 39.1	1.510	2.346	17.6	18.6	7 30	17 31.39	-36 56.2	1.019	1.882	22.3	18.6
326158	2012 BN ₇₈ 6 20.9 14°95 1°3°/20.9 17						249077	2007 US ₁₂₅ 6 20.9 244°93 1°0°/20.9 18					
5 21	18 24.50	-25 59.5	1.269	2.174	15.7	20.1	5 21	18 25.73	-20 28.3	1.625	2.515	13.7	21.0
5 31	18 18.56	-26 6.8	1.212	2.175	11.2	19.8	5 31	18 19.14	-20 36.1	1.547	2.503	9.8	20.8
6 10	18 9.84	-26 10.9	1.176	2.177	6.1	19.5	6 10	18 10.12	-20 46.9	1.492	2.490	5.4	20.5
6 20	17 59.47	-26 9.5	1.164	2.179	1.4	19.2	6 20	17 59.54	-20 59.2	1.462	2.477	1.1	20.2
6 30	17 49.01	-26 1.7	1.176	2.182	5.2	19.5	6 30	17 48.60	-21 11.9	1.459	2.464	4.6	20.4
7 10	17 40.03	-25 48.8	1.211	2.185	10.3	19.8	7 10	17 38.63	-21 24.6	1.481	2.450	9.3	20.6
7 20	17 33.69	-25 33.6	1.268	2.189	14.8	20.0	7 20	17 30.73	-21 37.6	1.527	2.435	13.6	20.8
7 30	17 30.68	-25 18.7	1.344	2.193	18.6	20.3	7 30	17 25.67	-21 51.9	1.593	2.420	17.3	21.0
12729	Berger 6 20.9 303°59 7°2°/20.1 18						267346	2001 WC ₁₆ 6 20.9 182°56 1°9°/20.9 18					
5 21	18 22.52	-9 37.4	1.479	2.362	15.2	17.3	5 21	18 23.64	-18 5.7	1.964	2.847	12.0	21.1
5 31	18 16.72	-8 27.5	1.416	2.357	11.8	17.0	5 31	18 17.16	-18 0.9	1.896	2.848	8.6	20.9
6 10	18 8.71	-7 28.2	1.374	2.352	8.7	16.8	6 10	18 8.83	-17 59.7	1.852	2.848	4.9	20.6
6 20	17 59.38	-6 43.6	1.356	2.348	7.2	16.7	6 20	17 59.43	-18 1.8	1.834	2.848	2.0	20.4
6 30	17 49.93	-6 17.1	1.363	2.344	8.6	16.8	6 30	17 49.91	-18 7.0	1.845	2.847	4.3	20.6
7 10	17 41.55	-6 9.7	1.394	2.339	11.9	17.0	7 10	17 41.29	-18 15.2	1.882	2.846	8.0	20.8
7 20	17 35.22	-6 20.1	1.445	2.335	15.3	17.2	7 20	17 34.36	-18 26.4	1.944	2.844	11.5	21.0
7 30	17 31.57	-6 45.4	1.515	2.331	18.5	17.4	7 30	17 29.70	-18 40.5	2.027	2.842	14.5	21.2
260221	2004 RO ₂₁₅ 6 20.9 298°60 1°5°/20.7 18						371877	2008 CJ ₃₅ 6 20.9 3°35 0°8°/20.9 17					
5 21	18 20.52	-20 45.0	2.175	3.062	10.9	19.6	5 21	18 22.02	-24 48.8	1.166	2.079	16.2	20.4
5 31	18 14.87	-20 11.1	2.095	3.049	7.8	19.4	5 31	18 16.97	-24 54.6	1.111	2.078	11.5	20.1
6 10	18 7.57	-19 36.9	2.039	3.036	4.3	19.1	6 10	18 9.07	-24 58.7	1.075	2.077	6.2	19.8
6 20	17 59.29	-19 3.1	2.010	3.024	1.5	18.9	6 20	17 59.46	-24 59.2	1.062	2.078	0.9	19.5
6 30	17 50.89	-18 31.0	2.009	3.011	3.9	19.1	6 30	17 49.71	-24 55.1	1.073	2.080	5.3	19.8
7 10	17 43.23	-18 2.1	2.034	2.999	7.5	19.3	7 10	17 41.46	-24 47.4	1.105	2.083	10.6	20.1
7 20	17 37.07	-17 37.8	2.085	2.987	10.8	19.5	7 20	17 35.89	-24 38.3	1.159	2.086	15.4	20.4
7 30	17 32.93	-17 18.9	2.158	2.975	13.7	19.6	7 30	17 33.72	-24 29.9	1.230	2.091	19.3	20.6
334720	2003 JQ ₃ 6 20.9 214°08 3°5°/20.6 18						364629	2007 TC ₆₈ 6 20.9 315°14 3°9°/20.1 17					
5 21	18 23.18	-32 52.1	2.276	3.153	10.9	21.2	5 21	18 23.58	-26 32.8	1.103	2.016	16.9	19.9
5 31	18 16.86	-33 31.0	2.208	3.152	8.0	21.0	5 31	18 18.99	-27 53.0	1.020	1.986	12.4	19.6
6 10	18 8.68	-34 3.6	2.163	3.151	5.2	20.8	6 10	18 10.74	-29 19.0	0.957	1.957	7.4	19.2
6 20	17 59.38	-34 27.1	2.146	3.149	3.5	20.7	6 20	17 59.64	-30 43.2	0.916	1.928	3.9	18.9
6 30	17 49.92	-34 39.4	2.156	3.148	4.9	20.8	6 30	17 47.33	-31 57.1	0.897	1.900	7.4	19.0
7 10	17 41.30	-34 40.9	2.194	3.147	7.7	20.9	7 10	17 35.97	-32 55.0	0.901	1.873	13.2	19.2
7 20	17 34.35	-34 33.4	2.256	3.146	10.5	21.1	7 20	17 27.54	-33 36.1	0.923	1.846	18.7	19.4
7 30	17 29.66	-34 19.6	2.339	3.145	13.1	21.3	7 30	17 23.46	-34 3.4	0.961	1.821	23.5	19.6
512912	2016 XL ₄ 6 20.9 249°41 1°7°/20.7 18						187718	2008 EB ₈₃ 6 20.9 184°19 5°3°/20.5 18					
5 21	18 21.72	-27 40.4	2.553	3.432	9.7	21.0	5 21	18 19.33	-6 57.5	2.516	3.371	10.7	20.7
5 31	18 15.68	-28 14.9	2.472	3.422	7.0	20.9	5 31	18 13.75	-6 18.6	2.448	3.371	8.4	20.6
6 10	18 8.02	-28 47.3	2.416	3.411	4.0	20.6	6 10	18 6.89	-5 48.9	2.405	3.371	6.3	20.4
6 20	17 59.34	-29 15.5	2.388	3.400	1.8	20.5	6 20	17 59.28	-5 29.9	2.389	3.370	5.3	20.4
6 30	17 50.43	-29 37.7	2.389	3.389	3.6	20.6	6 30	17 51.61	-5 22.9	2.400	3.370	6.2	20.4
7 10	17 42.14	-29 53.6	2.417	3.378	6.7	20.8	7 10	17 44.58	-5 27.7	2.437	3.369	8.2	20.5
7 20	17 35.21	-30 3.6	2.472	3.366	9.6	20.9	7 20	17 38.75	-5 43.3	2.499	3.367	10.4	20.7
7 30	17 30.20	-30 9.3	2.549	3.355	12.1	21.1	7 30	17 34.57	-6 8.1	2.583	3.366	12.6	20.8
261280	2005 UR ₁₃₅ 6 20.9 286°65 4°7°/20.5 18						326314	1999 TJ ₂₀₄ 6 20.9 260°21 4°2°/20.7 18					
5 21	18 19.39	-10 51.6	2.162	3.035	11.5	21.3	5 21	18 28.32	-32 31.7	1.730	2.611	13.5	21.2
5 31	18 14.04	-10 15.4	2.086	3.025	8.8	21.1	5 31	18 21.22	-33 8.4	1.644	2.591	10.1	20.9
6 10	18 7.12	-9 46.6	2.035	3.015	6.1	20.9	6 10	18 11.37	-33 38.2	1.581	2.570	6.5	20.6
6 20	17 59.27	-9 27.2	2.009	3.005	4.7	20.8	6 20	17 59.66	-33 56.2	1.543	2.549	4.2	20.5
6 30	17 51.27	-9 18.2	2.011	2.996	5.9	20.9	6 30	17 47.44	-33 59.3	1.532	2.527	6.1	20.5
7 10	17 43.97	-9 19.9	2.038	2.986	8.6	21.0	7 10	17 36.21	-33 47.9	1.547	2.505	9.9	20.7
7 20	17 38.06	-9 31.7	2.090	2.977	11.4	21.2	7 20	17 27.24	-33 25.1	1.585	2.482	13.8	20.9
7 30	17 34.07	-9 52.3	2.163	2.967	14.1	21.3	7 30	17 21.43	-32 55.6	1.643	2.459	17.3	21.0
294697	2008 BT ₁ 6 20.9 119°78 0°3°/20.9 18						178415	1998 RO ₃₄ 6 20.9 289°92 1°5°/20.9 18					
5 21	18 21.52	-21 13.8	2.199	3.084	10.8	20.7	5 21	18 23.63	-19 32.3	1.502	2.398	14.2	19.7
5 31	18 15.56	-21 38.3	2.133	3.087	7.7	20.5	5 31	18 17.89	-19 37.5	1.418	2.377	10.3	19.4
6 10	18 7.94	-22 4.7	2.091	3.090	4.1	20.3	6 10	18 9.57	-19 47.1	1.357	2.356	5.8	19.1
6 20	17 59.34	-22 31.5	2.076	3.093	0.4	20.0	6 20	17 59.52	-20 0.1	1.320	2.335	1.6	18.7
6 30	17 50.62	-22 57.3	2.090	3.095	3.5	20.3	6 30	17 48.97	-20 15.4	1.308	2.313	5.0	18.9
7 10	17 42.68	-23 21.3	2.131	3.098	7.0	20.5	7 10	17 39.33	-20 32.4	1.321	2.292	10.0	19.2
7 20	17 36.25	-23 43.5	2.198	3.101	10.3	20.7	7 20	17 31.80	-20 51.1	1.357	2.271	14.5	19.4
7 30	17 31.86	-24 4.1	2.286	3.103	13.0	20.9	7 30	17 27.25	-21 11.8	1.412	2.250	18.5	19.6
17854	1998 JC ₄ 6 20.9 208°37 3°3°/20.6 18						40759	1999 TY ₉ 6 20.9 100°05 1°6°/20.7 18					
5 21	18 19.91	-13 50.9	2.422	3.296	10.4	17.8	5 21	18 24.02	-20 16.0	1.901	2.787	12.2	18.4
5 31	18 14.23	-13 23.3	2.350	3.293	7.7	17.6	5 31	18 17.30	-19 51.1	1.848	2.802	8.7	18.2
6 10	18 7.16	-13 0.7	2.303	3.290	4.9								

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
326305	1998 <i>WK</i> ₄₀		6 20.9 312°29	0°7/20.8	17		212613	2006 <i>SY</i> ₃₆₅		6 20.9 55°45	3°9/20.7	17	
5 21	18 22.22	-22 24.0	1.306	2.213	15.2	20.2	5 21	18 20.24	-13 20.5	2.058	2.937	11.7	20.3
5 31	18 17.21	-22 15.8	1.223	2.188	11.0	19.9	5 31	18 14.63	-12 48.8	1.995	2.940	8.7	20.1
6 10	18 9.34	-22 8.0	1.161	2.163	6.0	19.6	6 10	18 7.44	-12 23.4	1.956	2.943	5.7	20.0
6 20	17 59.51	-21 59.5	1.122	2.138	0.8	19.1	6 20	17 59.36	-12 5.7	1.943	2.946	3.9	19.8
6 30	17 49.11	-21 50.2	1.107	2.114	5.3	19.4	6 30	17 51.24	-11 56.7	1.957	2.949	5.3	19.9
7 10	17 39.76	-21 41.1	1.116	2.091	10.8	19.6	7 10	17 43.93	-11 56.5	1.997	2.952	8.2	20.1
7 20	17 32.79	-21 33.8	1.145	2.068	15.9	19.8	7 20	17 38.13	-12 4.6	2.062	2.955	11.3	20.3
7 30	17 29.18	-21 30.1	1.192	2.046	20.2	20.0	7 30	17 34.34	-12 19.9	2.147	2.958	13.9	20.5
337212	2000 <i>AC</i> ₂₂₃		6 20.9 281°48	1°4/20.9	17		131098	2001 <i>AL</i> ₁₃		6 20.9 160°44	3°7/21.0	18	
5 21	18 22.44	-18 20.1	1.858	2.745	12.4	20.3	5 21	18 22.33	-12 12.1	2.205	3.075	11.4	20.7
5 31	18 16.59	-18 42.9	1.777	2.731	8.9	20.0	5 31	18 16.03	-12 4.7	2.140	3.081	8.5	20.5
6 10	18 8.68	-19 11.3	1.720	2.717	5.0	19.8	6 10	18 8.17	-12 4.9	2.100	3.085	5.5	20.3
6 20	17 59.44	-19 43.8	1.688	2.703	1.4	19.5	6 20	17 59.42	-12 13.0	2.087	3.090	3.7	20.2
6 30	17 49.87	-20 18.7	1.685	2.689	4.2	19.7	6 30	17 50.61	-12 28.9	2.101	3.094	5.0	20.3
7 10	17 41.07	-20 54.5	1.707	2.675	8.4	19.9	7 10	17 42.58	-12 51.7	2.143	3.097	7.8	20.5
7 20	17 33.96	-21 30.3	1.754	2.661	12.2	20.1	7 20	17 36.00	-13 20.4	2.210	3.100	10.8	20.7
7 30	17 29.28	-22 5.6	1.822	2.647	15.5	20.3	7 30	17 31.38	-13 53.6	2.299	3.103	13.3	20.8
355746	2008 <i>HW</i> ₆₂		6 20.9 109°73	4°6/21.0	16		318243	2004 <i>RO</i> ₂₈₃		6 20.9 236°21	0°4/20.9	17	
5 21	18 18.98	-9 5.1	2.337	3.202	11.0	21.6	5 21	18 24.29	-24 10.9	2.034	2.919	11.6	21.9
5 31	18 13.61	-8 48.8	2.271	3.204	8.4	21.4	5 31	18 17.76	-24 17.8	1.953	2.908	8.3	21.6
6 10	18 6.85	-8 41.6	2.229	3.205	6.0	21.2	6 10	18 9.25	-24 23.6	1.897	2.896	4.5	21.4
6 20	17 59.29	-8 44.5	2.214	3.207	4.6	21.2	6 20	17 59.52	-24 27.0	1.868	2.884	0.5	21.1
6 30	17 51.66	-8 57.7	2.225	3.208	5.6	21.2	6 30	17 49.56	-24 27.1	1.867	2.872	3.8	21.3
7 10	17 44.70	-9 20.5	2.264	3.210	7.9	21.4	7 10	17 40.42	-24 24.3	1.893	2.859	7.8	21.5
7 20	17 39.03	-9 51.4	2.327	3.211	10.5	21.5	7 20	17 32.99	-24 19.7	1.944	2.846	11.4	21.7
7 30	17 35.13	-10 28.8	2.412	3.213	12.9	21.7	7 30	17 27.91	-24 14.9	2.016	2.832	14.5	21.9
501832	2014 <i>WN</i> ₁₂₅		6 20.9 164°63	0°9/20.9	17		334371	2002 <i>AB</i> ₇₈		6 20.9 243°93	0°2/20.9	18	
5 21	18 27.01	-25 48.4	1.798	2.684	12.8	22.5	5 21	18 21.60	-23 29.0	2.495	3.376	9.9	21.6
5 31	18 19.71	-25 52.6	1.734	2.688	9.1	22.3	5 31	18 15.58	-23 38.5	2.411	3.363	7.0	21.4
6 10	18 10.26	-25 53.9	1.694	2.692	5.0	22.0	6 10	18 7.99	-23 47.7	2.352	3.350	3.8	21.1
6 20	17 59.56	-25 50.4	1.680	2.696	1.0	21.7	6 20	17 59.42	-23 55.5	2.320	3.336	0.3	20.8
6 30	17 48.82	-25 41.6	1.694	2.699	4.2	22.0	6 30	17 50.66	-24 1.2	2.318	3.322	3.2	21.1
7 10	17 39.20	-25 28.6	1.735	2.701	8.4	22.2	7 10	17 42.53	-24 4.9	2.343	3.308	6.6	21.2
7 20	17 31.64	-25 13.5	1.800	2.703	12.1	22.5	7 20	17 35.72	-24 7.0	2.394	3.293	9.7	21.4
7 30	17 26.75	-24 58.6	1.886	2.704	15.3	22.7	7 30	17 30.81	-24 8.7	2.468	3.278	12.4	21.6
61701	2000 <i>QH</i> ₁₃₃		6 20.9 221°43	2°1/20.8	18		428125	2006 <i>SV</i> ₄₁		6 20.9 278°34	0°8/20.9	18	
5 21	18 25.05	-27 50.6	1.765	2.654	12.9	19.0	5 21	18 25.28	-20 37.8	1.594	2.486	13.8	21.3
5 31	18 18.51	-28 15.2	1.696	2.651	9.2	18.8	5 31	18 19.07	-20 54.3	1.503	2.461	10.0	21.0
6 10	18 9.70	-28 36.1	1.651	2.648	5.3	18.5	6 10	18 10.26	-21 14.7	1.436	2.435	5.5	20.7
6 20	17 59.53	-28 50.5	1.632	2.646	2.1	18.3	6 20	17 59.64	-21 37.2	1.394	2.410	0.9	20.3
6 30	17 49.16	-28 56.8	1.640	2.643	4.6	18.5	6 30	17 48.42	-22 0.0	1.378	2.383	4.7	20.5
7 10	17 39.85	-28 55.2	1.674	2.639	8.7	18.7	7 10	17 38.01	-22 22.1	1.387	2.357	9.7	20.7
7 20	17 32.59	-28 47.8	1.731	2.636	12.4	18.9	7 20	17 29.63	-22 43.5	1.420	2.330	14.3	20.9
7 30	17 28.06	-28 37.2	1.809	2.633	15.6	19.1	7 30	17 24.21	-23 4.7	1.472	2.303	18.2	21.1
59112	1998 <i>WN</i> ₃₅		6 20.9 303°70	0°6/20.8	18		512782	2016 <i>UP</i> ₇₀		6 20.9 49°19	1°2/20.8	18	
5 21	18 17.33	-21 21.7	2.864	3.747	8.7	18.8	5 21	18 21.50	-26 32.9	2.217	3.103	10.7	21.4
5 31	18 12.39	-21 16.1	2.777	3.730	6.2	18.7	5 31	18 15.60	-26 48.2	2.150	3.104	7.6	21.2
6 10	18 6.20	-21 10.9	2.716	3.714	3.4	18.4	6 10	18 8.01	-27 1.1	2.107	3.105	4.2	21.0
6 20	17 59.25	-21 6.1	2.682	3.698	0.7	18.2	6 20	17 59.44	-27 10.0	2.091	3.106	1.3	20.7
6 30	17 52.16	-21 1.6	2.677	3.682	2.9	18.4	6 30	17 50.76	-27 14.0	2.103	3.107	3.6	20.9
7 10	17 45.58	-20 57.6	2.701	3.666	5.8	18.5	7 10	17 42.91	-27 13.3	2.142	3.108	7.1	21.1
7 20	17 40.08	-20 54.6	2.750	3.650	8.5	18.7	7 20	17 36.62	-27 9.2	2.206	3.109	10.2	21.3
7 30	17 36.11	-20 53.2	2.822	3.634	10.9	18.8	7 30	17 32.43	-27 3.2	2.293	3.110	12.9	21.5
250822	2005 <i>UO</i> ₆₉		6 20.9 266°87	4°1/20.6	18		71167	1999 <i>XZ</i> ₂₀₃		6 20.9 85°76	4°2/20.3	18	
5 21	18 23.49	-34 31.8	2.313	3.185	10.9	20.2	5 21	18 26.51	-32 0.8	1.893	2.773	12.5	19.1
5 31	18 17.18	-35 12.2	2.236	3.176	8.2	20.0	5 31	18 19.49	-33 8.2	1.839	2.785	9.2	19.0
6 10	18 8.94	-35 45.7	2.183	3.166	5.5	19.8	6 10	18 10.23	-34 9.5	1.809	2.797	6.0	18.8
6 20	17 59.47	-36 8.9	2.157	3.156	4.1	19.7	6 20	17 59.62	-34 59.7	1.806	2.809	4.2	18.7
6 30	17 49.77	-36 19.7	2.158	3.146	5.3	19.8	6 30	17 48.87	-35 35.5	1.830	2.821	5.8	18.8
7 10	17 40.85	-36 18.4	2.186	3.136	8.0	19.9	7 10	17 39.22	-35 56.6	1.880	2.832	8.9	19.0
7 20	17 33.60	-36 6.8	2.239	3.126	10.8	20.1	7 20	17 31.64	-36 5.1	1.955	2.844	12.0	19.2
7 30	17 28.66	-35 48.1	2.313	3.116	13.3	20.3	7 30	17 26.79	-36 4.5	2.050	2.856	14.7	19.5
7530	Mizusawa		6 20.9 297°53	9°4/20.9	18		428132	2006 <i>ST</i> ₇₅		6 20.9 228°52	3°3/20.8	17	
5 21	18 20.46	-0 50.9	1.687	2.538	15.2	16.4	5 21	18 24.23	-15 16.0	1.779	2.661	13.1	22.2
5 31	18 15.24	-0 11.7	1.609	2.520	12.7	16.2	5 31	18 17.81	-14 59.8	1.704	2.653	9.6	22.0
6 10	18 7.98	+0 8.8	1.552	2.502	10.5	16.0	6 10	18 9.32	-14 49.6	1.652	2.644	5.9	21.8
6 20	17 59.40	+0 6.8	1.518	2.483	9.4	15.9	6 20	17 59.56	-14 46.0	1.626	2.635	3.4	21.6
6 30	17 50.50	-0 19.6	1.508	2.465	10.2	15.9	6 30	17 49.56	-14 49.4	1.627	2.626	5.3	21.7
7 10	17 42.36	-1 9.1	1.521	2.447	12.5	16.0	7 10	17 40.47	-14 59.7	1.654	2.615	9.1	21.9
7 20	17 35.90	-2 18.3	1.556	2.429	15.3	16.1	7 20	17 33.18	-15 16.4	1.705	2.605	12.9	22.1
7 30	17 31.86	-3 41.9	1.609	2.412	18.2	16.3	7 30	17 28.38	-15 38.7	1.777	2.594	16.1	22.3
387207	2012 <i>TP</i> ₃₁₃		6 20.9 278°46	1°1/20.9	18		360115	2013 <i>CK</i> ₁₇					

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
255015	2005 <i>TF</i> ₄₂		6 20.9 277°33	4.1°/20.5	18		439473	2013 <i>YF</i> ₈₃		6 20.9 177°85	0.3°/20.9	17	
5 21	18 19.70	-12 34.5	2.228	3.103	11.1	20.1	5 21	18 23.46	-23 17.7	2.025	2.911	11.6	21.5
5 31	18 14.25	-11 58.3	2.152	3.094	8.3	19.9	5 31	18 17.03	-23 5.4	1.957	2.912	8.2	21.3
6 10	18 7.27	-11 28.0	2.100	3.085	5.6	19.7	6 10	18 8.79	-22 51.9	1.913	2.912	4.4	21.0
6 20	17 59.39	-11 5.2	2.075	3.075	4.1	19.6	6 20	17 59.53	-22 36.7	1.896	2.912	0.5	20.7
6 30	17 51.37	-10 51.2	2.077	3.066	5.4	19.7	6 30	17 50.20	-22 20.2	1.908	2.913	3.7	21.0
7 10	17 44.04	-10 46.4	2.106	3.057	8.1	19.8	7 10	17 41.81	-22 3.4	1.946	2.912	7.6	21.2
7 20	17 38.07	-10 50.6	2.159	3.048	11.0	20.0	7 20	17 35.11	-21 47.7	2.009	2.912	11.0	21.4
7 30	17 33.99	-11 2.8	2.234	3.038	13.6	20.1	7 30	17 30.68	-21 34.5	2.093	2.912	14.0	21.6
316036	2009 <i>FC</i> ₆₉		6 20.9 14°67	1°1/20.9	17		86418	2000 <i>AE</i> ₂₄₄		6 20.9 233°19	5°0/20.4	18	
5 21	18 20.57	-21 7.5	0.991	1.911	17.6	20.2	5 21	18 18.88	-6 32.1	2.834	3.684	9.8	19.9
5 31	18 16.12	-21 9.1	0.945	1.916	12.5	19.9	5 31	18 13.42	-5 53.7	2.754	3.672	7.7	19.8
6 10	18 8.68	-21 14.3	0.918	1.921	6.8	19.6	6 10	18 6.75	-5 23.2	2.698	3.660	5.9	19.6
6 20	17 59.50	-21 21.9	0.913	1.928	1.2	19.3	6 20	17 59.37	-5 2.5	2.670	3.648	5.1	19.6
6 30	17 50.29	-21 30.7	0.929	1.937	5.7	19.6	6 30	17 51.86	-4 52.6	2.669	3.636	5.8	19.6
7 10	17 42.75	-21 40.7	0.967	1.947	11.3	20.0	7 10	17 44.87	-4 53.7	2.696	3.623	7.7	19.7
7 20	17 38.06	-21 52.1	1.024	1.958	16.2	20.3	7 20	17 38.91	-5 5.2	2.747	3.609	9.8	19.8
7 30	17 36.91	-22 5.1	1.098	1.970	20.3	20.6	7 30	17 34.44	-5 25.8	2.821	3.596	11.8	19.9
73298	2002 <i>JX</i> ₆₈		6 20.9 11°57	5°1/21.3	17		188922	2007 <i>BZ</i> ₆₆		6 20.9 9°66	0°2/20.9	17	
5 21	18 22.47	-12 0.0	1.219	2.117	16.7	18.8	5 21	18 20.53	-23 54.5	2.167	3.055	10.8	20.8
5 31	18 17.08	-11 57.6	1.164	2.118	12.5	18.5	5 31	18 14.91	-23 57.6	2.099	3.055	7.7	20.6
6 10	18 9.10	-12 9.3	1.128	2.120	8.1	18.3	6 10	18 7.65	-23 59.8	2.057	3.056	4.1	20.4
6 20	17 59.55	-12 35.7	1.115	2.122	5.2	18.1	6 20	17 59.44	-24 0.3	2.041	3.057	0.4	20.1
6 30	17 49.83	-13 15.6	1.126	2.124	7.1	18.2	6 30	17 51.15	-23 58.7	2.052	3.058	3.5	20.3
7 10	17 41.40	-14 6.1	1.159	2.127	11.3	18.5	7 10	17 43.67	-23 55.3	2.091	3.059	7.0	20.6
7 20	17 35.39	-15 3.6	1.213	2.131	15.6	18.7	7 20	17 37.72	-23 51.1	2.155	3.060	10.3	20.8
7 30	17 32.51	-16 5.0	1.286	2.135	19.3	19.0	7 30	17 33.84	-23 47.1	2.240	3.062	13.1	20.9
321663	2010 <i>CP</i> ₆₀		6 20.9 134°11	6°3/21.3	18		64529	2001 <i>VV</i> ₁₀₇		6 20.9 7°04	1°2/20.9	18	
5 21	18 21.72	-4 57.3	2.117	2.969	12.5	20.5	5 21	18 23.39	-26 47.3	1.023	1.940	17.5	18.2
5 31	18 15.60	-4 35.4	2.059	2.978	9.9	20.4	5 31	18 18.22	-26 32.5	0.971	1.939	12.5	17.9
6 10	18 7.95	-4 26.5	2.025	2.987	7.6	20.3	6 10	18 9.86	-26 11.7	0.938	1.940	6.9	17.6
6 20	17 59.45	-4 32.1	2.016	2.995	6.3	20.2	6 20	17 59.63	-25 43.7	0.926	1.942	1.3	17.3
6 30	17 50.92	-4 52.4	2.034	3.004	7.1	20.3	6 30	17 49.36	-25 9.3	0.937	1.945	5.7	17.6
7 10	17 43.21	-5 26.1	2.078	3.012	9.2	20.4	7 10	17 40.86	-24 32.1	0.970	1.949	11.4	17.9
7 20	17 36.96	-6 10.7	2.146	3.019	11.7	20.6	7 20	17 35.40	-23 56.2	1.022	1.954	16.5	18.2
7 30	17 32.68	-7 3.4	2.235	3.026	14.1	20.8	7 30	17 33.66	-23 25.0	1.091	1.960	20.7	18.5
96981	1999 <i>TB</i> ₂₀₁		6 20.9 252°44	6°3/20.6	18		343581	2010 <i>FR</i> ₉₀		6 20.9 31°01	1°3/20.8	17	
5 21	18 21.61	-6 32.1	2.057	2.916	12.6	20.0	5 21	18 22.06	-20 19.3	1.811	2.702	12.5	21.1
5 31	18 15.76	-5 56.6	1.976	2.901	10.0	19.8	5 31	18 16.18	-20 8.7	1.747	2.704	8.9	20.9
6 10	18 8.16	-5 32.3	1.918	2.885	7.5	19.7	6 10	18 8.39	-19 59.8	1.707	2.706	4.9	20.6
6 20	17 59.48	-5 21.5	1.886	2.869	6.3	19.6	6 20	17 59.51	-19 52.5	1.693	2.708	1.4	20.4
6 30	17 50.55	-5 25.5	1.880	2.853	7.3	19.6	6 30	17 50.55	-19 46.9	1.705	2.710	4.2	20.6
7 10	17 42.31	-5 44.1	1.900	2.836	9.8	19.7	7 10	17 42.57	-19 43.6	1.744	2.712	8.2	20.8
7 20	17 35.52	-6 15.8	1.943	2.819	12.7	19.8	7 20	17 36.39	-19 42.9	1.806	2.714	11.8	21.1
7 30	17 30.79	-6 58.2	2.008	2.801	15.3	20.0	7 30	17 32.58	-19 45.6	1.890	2.717	14.9	21.3
250894	2005 <i>VL</i> ₇₂		6 20.9 285°12	0°5/20.9	18		394700	2008 <i>CE</i> ₂₁₂		6 20.9 106°24	4°6/21.0	16	
5 21	18 20.93	-21 37.0	2.232	3.118	10.7	20.7	5 21	18 19.85	-9 45.6	2.201	3.069	11.5	21.3
5 31	18 15.31	-21 41.6	2.143	3.097	7.6	20.5	5 31	18 14.31	-9 28.9	2.137	3.073	8.7	21.1
6 10	18 7.94	-21 47.4	2.078	3.077	4.1	20.2	6 10	18 7.28	-9 21.4	2.098	3.076	6.1	20.9
6 20	17 59.46	-21 53.3	2.040	3.056	0.6	19.9	6 20	17 59.42	-9 24.0	2.084	3.080	4.6	20.8
6 30	17 50.71	-21 59.0	2.031	3.036	3.5	20.1	6 30	17 51.49	-9 36.9	2.098	3.083	5.6	20.9
7 10	17 42.59	-22 4.3	2.048	3.015	7.3	20.3	7 10	17 44.30	-9 59.4	2.138	3.087	8.2	21.1
7 20	17 35.90	-22 9.7	2.091	2.994	10.7	20.5	7 20	17 38.49	-10 30.0	2.203	3.090	10.9	21.2
7 30	17 31.26	-22 15.9	2.155	2.973	13.6	20.6	7 30	17 34.55	-11 6.9	2.289	3.094	13.4	21.4
304368	Móricz		6 20.9 182°99	5°0/20.5	18		376794	2000 <i>SN</i> ₁₂₅		6 20.9 294°50	2°7/20.6	18	
5 21	18 25.27	-37 39.0	2.352	3.215	11.0	21.2	5 21	18 27.54	-27 5.6	1.405	2.301	15.1	21.3
5 31	18 18.44	-38 26.7	2.285	3.215	8.5	21.0	5 31	18 21.38	-27 47.2	1.305	2.263	11.1	20.9
6 10	18 9.62	-39 5.1	2.242	3.215	6.2	20.9	6 10	18 11.89	-28 29.0	1.227	2.225	6.4	20.6
6 20	17 59.59	-39 30.5	2.226	3.215	5.0	20.8	6 20	17 59.85	-29 6.1	1.173	2.186	2.7	20.2
6 30	17 49.39	-39 40.9	2.237	3.214	6.0	20.9	6 30	17 46.67	-29 33.6	1.144	2.147	6.0	20.3
7 10	17 40.08	-39 36.7	2.275	3.214	8.3	21.0	7 10	17 34.20	-29 49.5	1.139	2.107	11.5	20.5
7 20	17 32.54	-39 20.4	2.337	3.213	10.8	21.2	7 20	17 24.14	-29 55.1	1.156	2.067	16.7	20.7
7 30	17 27.41	-38 55.8	2.421	3.212	13.1	21.3	7 30	17 17.78	-29 54.2	1.191	2.027	21.3	20.9
359917	2011 <i>WS</i> ₁₂₄		6 20.9 216°68	2°2/20.9	18		359388	2010 <i>GR</i> ₁₃₁		6 20.9 113°19	0°3/20.9	17	
5 21	18 20.26	-16 10.1	2.551	3.426	9.9	21.9	5 21	18 27.32	-23 0.3	1.324	2.223	15.6	21.7
5 31	18 14.51	-16 0.9	2.474	3.420	7.2	21.8	5 31	18 20.42	-22 58.9	1.269	2.229	11.1	21.4
6 10	18 7.37	-15 55.5	2.422	3.414	4.3	21.6	6 10	18 10.84	-22 57.2	1.235	2.236	6.0	21.2
6 20	17 59.41	-15 54.1	2.398	3.408	2.3	21.4	6 20	17 59.72	-22 53.8	1.226	2.242	0.5	20.8
6 30	17 51.33	-15 56.8	2.402	3.401	3.8	21.5	6 30	17 48.57	-22 48.2	1.242	2.248	5.0	21.1
7 10	17 43.86	-16 3.6	2.435	3.394	6.7	21.7	7 10	17 38.90	-22 41.3	1.282	2.254	10.1	21.5
7 20	17 37.63	-16 14.3	2.493	3.387	9.5	21.9	7 20	17 31.82	-22 35.0	1.345	2.260	14.6	21.7
7 30	17 33.12	-16 28.5	2.574	3.379	12.0	22.0	7 30	17 27.99	-22 31.0	1.426	2.266	18.3	22.0
174113	2002 <i>JU</i> ₈₂		6 20.9 18°22	2°8/20.8	17		38562	1999 <i>VG</i> ₁₃₉		6 20			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
61787	2000 QK ₁₇₉		6 20.9 195°68	0°6/20.9	18		114958	2003 QO ₆₀		6 20.9 174°47	5°6/20.7	18	
5 21	18 21.14	-21 19.1	2.376	3.259	10.2	19.9	5 21	18 28.10	-39 43.7	2.361	3.214	11.3	20.4
5 31	18 15.23	-21 19.5	2.305	3.258	7.2	19.7	5 31	18 20.47	-40 29.6	2.295	3.216	8.9	20.2
6 10	18 7.79	-21 20.7	2.258	3.256	3.9	19.5	6 10	18 10.74	-41 4.5	2.253	3.218	6.7	20.1
6 20	17 59.47	-21 22.2	2.239	3.255	0.7	19.2	6 20	17 59.76	-41 24.3	2.238	3.220	5.6	20.0
6 30	17 51.05	-21 23.6	2.248	3.253	3.3	19.4	6 30	17 48.62	-41 27.0	2.251	3.221	6.5	20.1
7 10	17 43.35	-21 25.2	2.285	3.251	6.7	19.7	7 10	17 38.48	-41 13.6	2.289	3.222	8.6	20.2
7 20	17 37.04	-21 27.3	2.348	3.248	9.8	19.8	7 20	17 30.25	-40 47.2	2.353	3.222	11.0	20.4
7 30	17 32.63	-21 30.6	2.433	3.246	12.4	20.0	7 30	17 24.57	-40 12.2	2.438	3.221	13.2	20.5
494450	2016 UY ₁₄₂		6 20.9 283°67	2°3/20.8	18		35483	1998 FQ ₁₂		6 20.9 154°34	5°7/20.9	17	
5 21	18 21.73	-17 31.2	1.982	2.867	11.8	22.2	5 21	18 22.61	-6 33.7	2.237	3.090	11.9	20.7
5 31	18 16.02	-17 17.5	1.893	2.845	8.6	21.9	5 31	18 16.19	-6 5 8	2.177	3.099	9.3	20.6
6 10	18 8.40	-17 7.3	1.828	2.823	5.0	21.7	6 10	18 8.28	-5 48.8	2.140	3.106	6.9	20.4
6 20	17 59.54	-17 1.0	1.789	2.801	2.4	21.5	6 20	17 59.56	-5 44.3	2.130	3.114	5.7	20.4
6 30	17 50.36	-16 59.0	1.777	2.778	4.5	21.6	6 30	17 50.80	-5 52.7	2.147	3.120	6.6	20.4
7 10	17 41.87	-17 1.4	1.791	2.755	8.3	21.7	7 10	17 42.82	-6 13.4	2.191	3.126	8.8	20.6
7 20	17 34.95	-17 8.5	1.830	2.733	12.0	21.9	7 20	17 36.26	-6 44.6	2.260	3.131	11.3	20.7
7 30	17 30.27	-17 20.2	1.890	2.710	15.2	22.1	7 30	17 31.61	-7 24.1	2.350	3.136	13.6	20.9
64021	2001 SQ ₁₅₃		6 20.9 219°67	0°1/20.9	18		40831	1999 TU ₉₄		6 20.9 84°84	1°0/20.9	18	
5 21	18 21.93	-23 35.2	2.194	3.079	10.8	19.6	5 21	18 23.06	-19 44.7	1.789	2.678	12.7	18.7
5 31	18 15.91	-23 35.9	2.122	3.076	7.7	19.4	5 31	18 16.99	-20 3 7	1.724	2.680	9.0	18.4
6 10	18 8.21	-23 35.8	2.075	3.074	4.1	19.2	6 10	18 8.91	-20 26.4	1.682	2.681	4.9	18.2
6 20	17 59.51	-23 34.1	2.054	3.071	0.3	18.9	6 20	17 59.61	-20 51.3	1.667	2.683	1.1	17.9
6 30	17 50.71	-23 30.5	2.062	3.067	3.5	19.1	6 30	17 50.17	-21 16.8	1.679	2.684	4.1	18.1
7 10	17 42.70	-23 25.3	2.097	3.064	7.1	19.4	7 10	17 41.68	-21 41.9	1.717	2.685	8.2	18.4
7 20	17 36.24	-23 19.6	2.158	3.061	10.4	19.6	7 20	17 35.03	-22 6 4	1.779	2.687	12.0	18.6
7 30	17 31.86	-23 14.5	2.240	3.057	13.2	19.7	7 30	17 30.83	-22 30.4	1.862	2.688	15.1	18.8
105677	2000 SN ₄₃		6 20.9 175°16	4°6/20.8	18		128855	2004 SU ₁₇		6 20.9 145°74	4°9/21.4	17	
5 21	18 24.66	-36 51.9	2.347	3.213	11.0	20.1	5 21	18 22.86	-8 24.4	2.134	2.995	12.1	20.2
5 31	18 17.94	-37 25.0	2.280	3.213	8.4	19.9	5 31	18 16.45	-8 21.5	2.073	3.003	9.3	20.0
6 10	18 9.33	-37 48.8	2.237	3.214	5.9	19.8	6 10	18 8.46	-8 29.6	2.036	3.011	6.5	19.8
6 20	17 59.61	-38 0 4	2.221	3.214	4.6	19.7	6 20	17 59.58	-8 49.0	2.025	3.019	4.9	19.7
6 30	17 49.78	-37 58.1	2.232	3.215	5.6	19.7	6 30	17 50.64	-9 19.3	2.042	3.026	5.9	19.8
7 10	17 40.86	-37 43.0	2.270	3.215	7.9	19.9	7 10	17 42.50	-9 59.0	2.086	3.033	8.4	20.0
7 20	17 33.69	-37 17.6	2.332	3.215	10.5	20.0	7 20	17 35.86	-10 45.8	2.154	3.039	11.2	20.2
7 30	17 28.86	-36 45.6	2.417	3.215	12.9	20.2	7 30	17 31.22	-11 37.6	2.245	3.045	13.7	20.4
204730	2006 HZ ₃₉		6 20.9 110°53	9°0/19.5	18		308588	2005 UR ₅₂₁		6 20.9 2°24	3°6/20.6	18	
5 21	18 38.74	-41 17.4	1.637	2.490	15.5	20.5	5 21	18 23.19	-31 48.8	2.048	2.930	11.6	19.9
5 31	18 28.96	-43 22.8	1.596	2.512	12.5	20.4	5 31	18 17.10	-32 35.0	1.982	2.930	8.6	19.7
6 10	18 15.67	-45 11.6	1.580	2.534	10.0	20.3	6 10	18 8.98	-33 15.7	1.940	2.930	5.5	19.5
6 20	18 0 15	-46 33.6	1.589	2.554	9.0	20.2	6 20	17 59.63	-33 47.3	1.925	2.930	3.6	19.4
6 30	17 44.32	-47 23.1	1.624	2.574	10.1	20.4	6 30	17 50.08	-34 7 5	1.936	2.930	5.1	19.5
7 10	17 30.20	-47 41.3	1.683	2.594	12.4	20.5	7 10	17 41.45	-34 16.1	1.974	2.931	8.2	19.7
7 20	17 19.32	-47 34.4	1.765	2.612	15.0	20.8	7 20	17 34.62	-34 15.0	2.036	2.932	11.3	19.9
7 30	17 12.51	-47 11.1	1.865	2.630	17.3	21.0	7 30	17 30.24	-34 7 0	2.119	2.932	14.0	20.1
208592	2002 CW ₁₃₉		6 20.9 124°20	2°1/20.9	18		331727	2002 TC ₉₉		6 20.9 153°10	3°8/20.9	17	
5 21	18 27.08	-18 40.2	1.595	2.483	14.1	20.9	5 21	18 28.26	-32 30.9	1.810	2.689	13.1	20.9
5 31	18 19.78	-18 27.0	1.542	2.496	10.0	20.7	5 31	18 20.79	-33 1 5	1.749	2.695	9.6	20.7
6 10	18 10.32	-18 17.4	1.513	2.510	5.7	20.5	6 10	18 10.97	-33 24.2	1.711	2.700	6.1	20.5
6 20	17 59.69	-18 11.0	1.509	2.522	2.2	20.3	6 20	17 59.79	-33 35.0	1.699	2.705	3.8	20.4
6 30	17 49.12	-18 8 1	1.532	2.534	4.9	20.5	6 30	17 48.53	-33 32.5	1.714	2.710	5.5	20.5
7 10	17 39.81	-18 8 8	1.580	2.546	9.1	20.7	7 10	17 38.49	-33 17.8	1.756	2.714	8.9	20.7
7 20	17 32.67	-18 13.7	1.653	2.557	12.9	21.0	7 20	17 30.67	-32 54.1	1.821	2.718	12.4	20.9
7 30	17 28.25	-18 22.7	1.745	2.567	16.2	21.2	7 30	17 25.72	-32 25.8	1.908	2.721	15.3	21.1
24061	1999 TS ₁₀₀		6 20.9 263°44	8°2/20.8	18 R		102410	1999 TS ₁₇₅		6 20.9 227°76	3°5/20.9	18	
5 21	18 21.19	-1 6 4	2.028	2.868	13.4	19.0	5 21	18 25.21	-31 59.3	1.879	2.762	12.5	19.9
5 31	18 15.51	-0 29.2	1.947	2.851	11.2	18.8	5 31	18 18.62	-32 25.0	1.811	2.760	9.2	19.7
6 10	18 8 07	-0 7 5	1.888	2.833	9.2	18.7	6 10	18 9 82	-32 43.6	1.767	2.758	5.7	19.5
6 20	17 59.53	-0 4 4	1.854	2.816	8.2	18.6	6 20	17 59.70	-32 51.9	1.748	2.755	3.5	19.3
6 30	17 50.71	-0 21.4	1.845	2.797	9.0	18.6	6 30	17 49.43	-32 48.5	1.756	2.753	5.2	19.5
7 10	17 42.55	-0 57.8	1.860	2.779	11.0	18.7	7 10	17 40.21	-32 34.1	1.790	2.751	8.6	19.7
7 20	17 35.84	-1 51.0	1.899	2.760	13.5	18.8	7 20	17 33.03	-32 11.7	1.849	2.749	12.0	19.9
7 30	17 31.19	-2 57.2	1.958	2.741	16.0	18.9	7 30	17 28.52	-31 44.9	1.928	2.746	15.0	20.1
501624	2014 SG ₁₅₇		6 20.9 229°83	2°3/20.8	17		63214	2001 AP ₂₀		6 20.9 213°25	3°2/20.9	18	
5 21	18 26.12	-18 42.1	1.589	2.478	14.0	22.5	5 21	18 19.58	-12 46.6	2.652	3.521	9.8	19.9
5 31	18 19.39	-18 21.4	1.514	2.469	10.1	22.2	5 31	18 14.00	-12 33.6	2.576	3.515	7.3	19.7
6 10	18 10.29	-18 3 6	1.463	2.460	5.8	21.9	6 10	18 7 12	-12 26.3	2.525	3.510	4.7	19.5
6 20	17 59.72	-17 48.9	1.437	2.451	2.4	21.7	6 20	17 59.48	-12 25.3	2.502	3.504	3.2	19.4
6 30	17 48.89	-17 37.9	1.438	2.441	5.2	21.9	6 30	17 51.72	-12 30.8	2.507	3.498	4.3	19.5
7 10	17 39.13	-17 31.6	1.464	2.430	9.6	22.1	7 10	17 44.55	-12 42.6	2.539	3.492	6.8	19.6
7 20	17 31.46	-17 30.6	1.514	2.419	13.8	22.3	7 20	17 38.52	-13 0 0	2.598	3.485	9.4	19.8
7 30	17 26.62	-17 35.4	1.583	2.408	17.4	22.5	7 30	17 34.11	-13 22.3	2.679	3.478	11.8	20.0
396008	2013 BD ₆₄		6 20.9 330°35	4°6/21.2	18		305361	2008 BB ₃₅		6 20.9 149°12	0°2/20.9	16	
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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
375702	2009 <i>PC</i> ₄		6 20.9 301°98	0°9/20.8	17		36458	2000 <i>QO</i> ₈		6 20.9 206°54	3°1/20.9	18	
5 21	18 23.53	-22 24.4	1.411	2.312	14.7	21.0	5 21	18 25.59	-16 29.2	1.614	2.501	14.0	19.1
5 31	18 18.01	-22 6.2	1.326	2.288	10.6	20.7	5 31	18 18.93	-16 11.7	1.545	2.498	10.2	18.9
6 10	18 9.78	-21 47.1	1.264	2.265	5.8	20.3	6 10	18 10.03	-15 59.6	1.499	2.494	6.1	18.6
6 20	17 59.73	-21 26.7	1.225	2.241	1.0	19.9	6 20	17 59.76	-15 53.4	1.479	2.490	3.1	18.4
6 30	17 49.18	-21 5.6	1.211	2.218	5.1	20.2	6 30	17 49.31	-15 53.3	1.485	2.485	5.4	18.6
7 10	17 39.65	-20 45.4	1.222	2.194	10.4	20.4	7 10	17 39.91	-15 59.6	1.516	2.480	9.6	18.8
7 20	17 32.39	-20 28.2	1.254	2.172	15.2	20.6	7 20	17 32.54	-16 11.9	1.571	2.474	13.5	19.0
7 30	17 28.29	-20 16.0	1.304	2.149	19.4	20.8	7 30	17 27.90	-16 29.9	1.645	2.468	17.0	19.2
218385	2004 <i>OQ</i> ₈		6 20.9 301°66	5°2/21.3	18		205534	2001 <i>SJ</i> ₁₅₁		6 20.9 271°31	1°6/20.9	17	
5 21	18 19.57	-7 54.0	2.097	2.963	12.1	19.6	5 21	18 27.06	-26 31.8	1.390	2.287	15.1	20.8
5 31	18 14.39	-7 49.9	2.010	2.942	9.4	19.4	5 31	18 20.63	-26 45.9	1.311	2.270	10.9	20.6
6 10	18 7.51	-7 57.5	1.946	2.921	6.8	19.2	6 10	18 11.25	-26 57.1	1.254	2.254	6.1	20.2
6 20	17 59.52	-8 17.9	1.907	2.900	5.3	19.0	6 20	17 59.88	-27 2.0	1.222	2.237	1.7	19.9
6 30	17 51.25	-8 51.3	1.896	2.880	6.3	19.1	6 30	17 48.02	-26 58.8	1.214	2.220	5.3	20.1
7 10	17 43.56	-9 36.4	1.910	2.859	8.9	19.2	7 10	17 37.33	-26 48.1	1.231	2.202	10.5	20.3
7 20	17 37.24	-10 30.7	1.948	2.839	11.9	19.3	7 20	17 29.17	-26 32.9	1.270	2.185	15.3	20.6
7 30	17 32.92	-11 31.8	2.008	2.819	14.8	19.5	7 30	17 24.46	-26 16.4	1.328	2.167	19.4	20.8
107170	2001 <i>BB</i> ₂₃		6 20.9 79°30	1°0/20.9	17		81983	2000 <i>QA</i> ₁₁₇		6 20.9 2°53	0°7/20.9	18	
5 21	18 28.45	-26 9.6	1.412	2.307	15.1	20.3	5 21	18 19.90	-24 29.6	1.460	2.366	14.0	18.6
5 31	18 20.91	-26 5.7	1.371	2.329	10.6	20.1	5 31	18 15.14	-24 44.0	1.401	2.364	9.9	18.3
6 10	18 10.96	-25 57.7	1.352	2.351	5.7	19.9	6 10	18 8.06	-24 57.8	1.363	2.364	5.4	18.1
6 20	17 59.79	-25 44.1	1.358	2.373	1.1	19.6	6 20	17 59.59	-25 9.0	1.349	2.365	0.9	17.8
6 30	17 48.89	-25 25.1	1.389	2.395	4.7	19.9	6 30	17 51.00	-25 16.4	1.360	2.367	4.5	18.0
7 10	17 39.60	-25 2.9	1.446	2.416	9.3	20.2	7 10	17 43.56	-25 20.1	1.395	2.370	9.1	18.3
7 20	17 32.86	-24 40.3	1.526	2.438	13.4	20.5	7 20	17 38.27	-25 21.2	1.453	2.374	13.3	18.6
7 30	17 29.18	-24 19.9	1.625	2.459	16.7	20.8	7 30	17 35.80	-25 21.3	1.530	2.379	16.8	18.8
107560	2001 <i>DM</i> ₈₆		6 20.9 17°92	2°3/21.1	18		1491	Balduinus		6 20.9 154°00	1°0/20.9	18	
5 21	18 22.44	-17 23.0	1.198	2.105	16.3	19.4	5 21	18 21.28	-26 56.6	2.751	3.629	9.2	17.0
5 31	18 17.16	-17 37.2	1.146	2.108	11.7	19.1	5 31	18 15.19	-27 0.2	2.684	3.634	6.5	16.8
6 10	18 9.21	-17 59.9	1.113	2.113	6.7	18.9	6 10	18 7.75	-27 1.0	2.642	3.639	3.6	16.7
6 20	17 59.67	-18 29.4	1.103	2.118	2.4	18.6	6 20	17 59.57	-26 58.0	2.629	3.643	1.0	16.5
6 30	17 50.00	-19 3.8	1.118	2.123	5.5	18.8	6 30	17 51.35	-26 51.0	2.644	3.648	3.0	16.6
7 10	17 41.71	-19 41.0	1.155	2.130	10.5	19.1	7 10	17 43.82	-26 40.6	2.688	3.652	5.9	16.8
7 20	17 35.92	-20 19.3	1.213	2.137	15.1	19.4	7 20	17 37.58	-26 27.8	2.758	3.656	8.6	17.0
7 30	17 33.35	-20 57.8	1.290	2.145	18.9	19.7	7 30	17 33.07	-26 14.2	2.852	3.659	10.9	17.2
504292	2006 <i>YW</i> ₁₉		6 20.9 173°47	2°5/21.2	18		463529	2013 <i>RC</i> ₁₅		6 20.9 17°59	8°7/20.5	17	
5 21	18 23.65	-33 5.8	2.850	3.716	9.2	22.2	5 21	18 23.43	-36 37.8	0.964	1.874	18.9	19.4
5 31	18 16.83	-33 2.3	2.779	3.719	6.8	22.1	5 31	18 18.79	-38 0.7	0.925	1.882	14.6	19.2
6 10	18 8.61	-32 52.0	2.733	3.721	4.2	21.9	6 10	18 10.41	-39 7.6	0.905	1.891	10.7	19.0
6 20	17 59.61	-32 33.6	2.716	3.723	2.5	21.8	6 20	17 59.80	-39 49.2	0.905	1.901	8.7	19.0
6 30	17 50.62	-32 7.2	2.728	3.724	3.7	21.9	6 30	17 49.13	-40 0.8	0.925	1.913	10.3	19.1
7 10	17 42.41	-31 34.1	2.768	3.725	6.2	22.0	7 10	17 40.58	-39 44.9	0.965	1.927	13.9	19.3
7 20	17 35.58	-30 56.4	2.836	3.725	8.7	22.2	7 20	17 35.60	-39 8.7	1.024	1.942	17.8	19.6
7 30	17 30.60	-30 17.0	2.926	3.725	10.9	22.4	7 30	17 34.88	-38 20.7	1.099	1.958	21.2	19.9
156155	2001 <i>TH</i> ₉₅		6 20.9 175°39	1°4/20.8	18		247088	2000 <i>SS</i> ₁₄₆		6 20.9 294°78	4°2/20.6	18	
5 21	18 24.57	-19 40.1	2.211	3.089	11.1	21.0	5 21	18 23.52	-16 3.4	1.327	2.226	15.6	20.3
5 31	18 17.69	-19 26.3	2.142	3.092	7.9	20.8	5 31	18 18.02	-15 25.5	1.248	2.206	11.6	20.0
6 10	18 9.15	-19 14.0	2.098	3.095	4.4	20.6	6 10	18 9.80	-14 52.9	1.190	2.185	7.2	19.7
6 20	17 59.67	-19 3.1	2.082	3.096	1.5	20.3	6 20	17 59.77	-14 27.5	1.156	2.165	4.2	19.5
6 30	17 50.13	-18 53.7	2.095	3.097	3.8	20.5	6 30	17 49.27	-14 11.4	1.145	2.145	6.7	19.6
7 10	17 41.43	-18 46.6	2.135	3.098	7.3	20.7	7 10	17 39.81	-14 6.1	1.158	2.125	11.5	19.8
7 20	17 34.30	-18 42.2	2.201	3.097	10.5	20.9	7 20	17 32.63	-14 11.7	1.192	2.106	16.2	20.0
7 30	17 29.25	-18 41.3	2.289	3.096	13.3	21.1	7 30	17 28.63	-14 27.5	1.244	2.086	20.3	20.2
106333	2000 <i>UC</i> ₁₀₇		6 20.9 217°69	0°6/20.8	18		350463	1998 <i>QA</i>		6 20.9 290°19	17°2/18.6	18	
5 21	18 21.92	-24 1.0	2.595	3.474	9.6	20.3	5 21	19 22.39	-73 43.1	2.183	2.821	18.2	21.1
5 31	18 15.81	-24 29.3	2.516	3.468	6.8	20.1	5 31	19 5.38	-74 57.3	2.097	2.786	17.7	21.0
6 10	18 8.18	-24 57.6	2.463	3.461	3.7	19.9	6 10	18 37.41	-75 40.2	2.025	2.750	17.3	20.8
6 20	17 59.60	-25 24.3	2.439	3.454	0.7	19.6	6 20	18 2.10	-75 34.4	1.969	2.714	17.2	20.7
6 30	17 50.84	-25 47.9	2.443	3.447	3.1	19.8	6 30	17 27.45	-74 29.8	1.930	2.677	17.4	20.7
7 10	17 42.68	-26 7.9	2.476	3.440	6.4	20.0	7 10	17 0.85	-72 30.7	1.908	2.640	18.1	20.6
7 20	17 35.83	-26 24.4	2.535	3.432	9.3	20.2	7 20	16 44.82	-69 51.2	1.905	2.602	19.1	20.6
7 30	17 30.80	-26 38.3	2.617	3.424	11.8	20.4	7 30	16 38.39	-66 47.3	1.918	2.564	20.3	20.7
367068	2006 <i>PE</i> ₈		6 20.9 271°19	4°1/21.1	18		469673	2004 <i>XJ</i> ₁₈		6 20.9 282°57	1°1/20.9	18	
5 21	18 24.51	-13 21.8	1.626	2.508	14.1	21.3	5 21	18 25.08	-25 32.7	1.860	2.747	12.4	21.8
5 31	18 18.40	-13 17.0	1.538	2.486	10.5	21.0	5 31	18 18.77	-25 48.6	1.763	2.718	8.9	21.5
6 10	18 9.89	-13 21.6	1.473	2.464	6.7	20.7	6 10	18 10.10	-26 3.2	1.689	2.688	5.0	21.2
6 20	17 59.76	-13 36.3	1.433	2.441	4.1	20.5	6 20	17 59.80	-26 14.1	1.642	2.657	1.1	20.9
6 30	17 49.13	-14 1.0	1.420	2.417	6.0	20.6	6 30	17 48.96	-26 19.7	1.622	2.627	4.3	21.0
7 10	17 39.27	-14 34.4	1.431	2.394	10.2	20.7	7 10	17 38.84	-26 19.8	1.629	2.596	8.8	21.2
7 20	17 31.31	-15 15.1	1.466	2.369	14.3	20.9	7 20	17 30.53	-26 15.9	1.659	2.564	12.9	21.4
7 30	17 26.08	-16 1.3	1.520	2.345	18.0	21.1	7 30	17 24.90	-26 10.0	1.710	2.532	16.5	21.6
62263	2000 <i>SD</i> ₈₇		6 20.9 251°01	0°3/20.9	18		237467	2000 <i>BA</i>					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
305287	Olegyankov		6 20.9 299°35	1.2°/20.8	17		72565	2001 ET ₈		6 20.9 341°76	1.1°/20.9	18	
5 21	18 22.80	-24 41.9	2.075	2.961	11.3	20.4	5 21	18 23.04	-25 32.2	1.694	2.588	13.0	19.6
5 31	18 16.73	-25 23.4	2.005	2.959	8.1	20.2	5 31	18 17.19	-25 47.9	1.627	2.586	9.3	19.3
6 10	18 8.78	-26 5.0	1.960	2.958	4.4	20.0	6 10	18 9.14	-26 1.8	1.584	2.583	5.1	19.1
6 20	17 59.67	-26 44.0	1.942	2.957	1.2	19.8	6 20	17 59.76	-26 11.9	1.565	2.581	1.2	18.8
6 30	17 50.35	-27 18.2	1.952	2.955	3.8	20.0	6 30	17 50.21	-26 16.8	1.573	2.579	4.3	19.0
7 10	17 41.84	-27 46.4	1.989	2.954	7.5	20.2	7 10	17 41.71	-26 17.0	1.607	2.577	8.6	19.3
7 20	17 34.97	-28 9.0	2.050	2.953	10.9	20.4	7 20	17 35.20	-26 13.7	1.664	2.575	12.5	19.5
7 30	17 30.36	-28 27.1	2.134	2.952	13.8	20.6	7 30	17 31.36	-26 8.9	1.741	2.574	15.8	19.7
342446	2008 UU ₉₈		6 20.9 295°57	7.4°/18.9	18		357777	2005 SS ₂₁₁		6 20.9 152°23	5°1°/20.7	18	
5 21	18 29.25	-36 43.9	1.699	2.573	14.0	20.6	5 21	18 24.79	-37 54.8	2.329	3.192	11.1	21.2
5 31	18 22.54	-38 31.6	1.609	2.545	11.1	20.4	5 31	18 18.16	-38 38.3	2.263	3.193	8.6	21.1
6 10	18 12.55	-40 14.6	1.543	2.516	8.4	20.1	6 10	18 9.57	-39 12.3	2.222	3.195	6.3	20.9
6 20	18 0.04	-41 43.7	1.502	2.487	7.4	20.0	6 20	17 59.80	-39 33.2	2.207	3.196	5.1	20.9
6 30	17 46.41	-42 51.1	1.487	2.459	9.0	20.0	6 30	17 49.88	-39 39.0	2.219	3.197	6.0	20.9
7 10	17 33.46	-43 33.4	1.497	2.430	12.2	20.1	7 10	17 40.88	-39 30.4	2.258	3.198	8.3	21.1
7 20	17 22.88	-43 52.2	1.529	2.401	15.7	20.3	7 20	17 33.66	-39 10.1	2.321	3.199	10.8	21.2
7 30	17 15.92	-43 53.0	1.579	2.372	18.9	20.4	7 30	17 28.82	-38 41.7	2.405	3.200	13.1	21.4
115821	2003 UP ₂₅₁		6 20.9 216°40	1.7°/20.9	18		393855	2005 SJ ₁₉₂		6 20.9 340°80	7.6°/19.9	17	
5 21	18 22.41	-18 6.1	1.950	2.835	12.0	19.9	5 21	18 18.08	-7 23.7	1.627	2.506	14.3	20.1
5 31	18 16.43	-18 13.2	1.880	2.833	8.6	19.7	5 31	18 13.60	-6 14.7	1.558	2.494	11.4	19.8
6 10	18 8.60	-18 24.6	1.835	2.831	4.9	19.5	6 10	18 7.19	-5 17.1	1.511	2.482	8.8	19.7
6 20	17 59.67	-18 39.6	1.815	2.829	1.8	19.3	6 20	17 59.60	-4 35.5	1.488	2.472	7.6	19.6
6 30	17 50.58	-18 57.3	1.824	2.827	4.1	19.4	6 30	17 51.83	-4 12.7	1.489	2.462	8.8	19.6
7 10	17 42.33	-19 17.2	1.859	2.825	7.9	19.7	7 10	17 44.93	-4 9.8	1.513	2.453	11.5	19.8
7 20	17 35.74	-19 38.7	1.918	2.823	11.4	19.9	7 20	17 39.74	-4 25.2	1.558	2.445	14.6	19.9
7 30	17 31.40	-20 1.7	1.999	2.820	14.4	20.1	7 30	17 36.90	-4 56.1	1.622	2.438	17.5	20.1
216042	2006 JC ₁₉		6 20.9 204°00	3°0°/20.9	17		394268	2006 UF ₁₁₈		6 20.9 297°31	6°6°/20.1	18	
5 21	18 25.90	-16 27.8	1.672	2.556	13.7	21.4	5 21	18 26.03	-39 3.1	1.952	2.818	12.8	21.1
5 31	18 19.12	-16 11.4	1.602	2.553	10.0	21.2	5 31	18 19.62	-40 8.3	1.873	2.802	10.1	20.9
6 10	18 10.13	-16 0.1	1.555	2.549	5.9	21.0	6 10	18 10.63	-41 3.5	1.817	2.786	7.7	20.7
6 20	17 59.81	-15 54.5	1.534	2.544	3.0	20.8	6 20	17 59.91	-41 42.8	1.787	2.770	6.6	20.6
6 30	17 49.30	-15 54.9	1.539	2.539	5.3	20.9	6 30	17 48.71	-42 2.4	1.783	2.755	7.7	20.6
7 10	17 39.81	-16 1.2	1.570	2.534	9.4	21.1	7 10	17 38.46	-42 2.2	1.803	2.739	10.3	20.7
7 20	17 32.30	-16 13.3	1.625	2.527	13.3	21.3	7 20	17 30.34	-41 45.0	1.846	2.723	13.1	20.9
7 30	17 27.45	-16 30.8	1.701	2.520	16.6	21.5	7 30	17 25.21	-41 15.8	1.909	2.708	15.8	21.0
441395	2008 FT ₅₅		6 20.9 359°68	2°4°/20.9	18		122461	2000 QD ₁₄₆		6 20.9 224°32	6°8°/21.1	18	
5 21	18 21.37	-29 10.8	1.874	2.765	12.1	20.8	5 21	18 22.20	-3 41.1	2.163	3.008	12.5	20.2
5 31	18 15.87	-29 34.1	1.808	2.763	8.7	20.6	5 31	18 16.13	-3 14.6	2.086	2.999	10.1	20.0
6 10	18 8.36	-29 52.9	1.766	2.762	5.1	20.4	6 10	18 8.42	-3 1.5	2.033	2.989	7.9	19.9
6 20	17 59.65	-30 4.7	1.750	2.762	2.5	20.2	6 20	17 59.71	-3 3.7	2.005	2.978	6.8	19.8
6 30	17 50.81	-30 8.2	1.760	2.762	4.5	20.3	6 30	17 50.81	-3 22.1	2.003	2.967	7.6	19.8
7 10	17 42.94	-30 3.9	1.796	2.763	8.1	20.5	7 10	17 42.57	-3 55.9	2.028	2.956	9.7	19.9
7 20	17 36.92	-29 53.6	1.856	2.764	11.6	20.8	7 20	17 35.74	-4 42.6	2.077	2.944	12.3	20.1
7 30	17 33.37	-29 39.7	1.937	2.766	14.6	21.0	7 30	17 30.87	-5 39.4	2.146	2.932	14.7	20.2
398829	2013 CJ ₃		6 20.9 95°84	4.7°/21.2	18		279850	2000 YB ₃₈		6 20.9 162°19	3°1°/21.3	18	
5 21	18 19.70	-8 46.9	2.241	3.106	11.4	20.9	5 21	18 23.38	-12 58.8	2.128	3.000	11.7	20.8
5 31	18 14.24	-8 35.7	2.176	3.108	8.8	20.7	5 31	18 16.95	-13 13.9	2.062	3.004	8.6	20.6
6 10	18 7.33	-8 34.6	2.135	3.111	6.2	20.6	6 10	18 8.84	-13 37.2	2.020	3.008	5.4	20.5
6 20	17 59.57	-8 44.2	2.120	3.113	4.8	20.5	6 20	17 59.74	-14 7.9	2.004	3.012	3.1	20.3
6 30	17 51.73	-9 4.5	2.132	3.116	5.7	20.6	6 30	17 50.53	-14 45.0	2.018	3.015	4.6	20.4
7 10	17 44.60	-9 34.5	2.171	3.118	8.1	20.7	7 10	17 42.10	-15 26.9	2.058	3.017	7.7	20.6
7 20	17 38.81	-10 12.6	2.234	3.121	10.8	20.9	7 20	17 35.18	-16 11.8	2.124	3.020	10.9	20.8
7 30	17 34.86	-10 56.6	2.319	3.123	13.2	21.1	7 30	17 30.33	-16 58.4	2.213	3.022	13.6	21.0
90635	3068 T ₋₂		6 20.9 215°73	2°4°/20.9	18		389193	2009 CO ₂₁		6 20.9 227°01	2°0°/20.9	16	
5 21	18 21.59	-16 7.6	2.227	3.105	11.0	20.1	5 21	18 22.00	-17 35.3	2.143	3.025	11.2	21.9
5 31	18 15.67	-16 0.5	2.153	3.101	8.0	19.9	5 31	18 16.04	-17 32.2	2.068	3.019	8.1	21.6
6 10	18 8.14	-15 58.0	2.103	3.096	4.8	19.7	6 10	18 8.39	-17 32.8	2.018	3.013	4.7	21.4
6 20	17 59.66	-16 0.2	2.081	3.091	2.5	19.5	6 20	17 59.71	-17 37.0	1.994	3.007	2.0	21.2
6 30	17 51.05	-16 7.0	2.086	3.086	4.2	19.6	6 30	17 50.88	-17 44.7	1.998	3.000	4.0	21.4
7 10	17 43.15	-16 18.3	2.119	3.080	7.4	19.8	7 10	17 42.79	-17 55.5	2.030	2.994	7.5	21.6
7 20	17 36.67	-16 33.6	2.177	3.074	10.6	20.0	7 20	17 36.20	-18 9.3	2.086	2.987	10.8	21.8
7 30	17 32.16	-16 52.5	2.257	3.068	13.3	20.2	7 30	17 31.67	-18 26.0	2.165	2.980	13.7	21.9
427561	2002 VW ₆₆		6 20.9 236°65	3°3°/20.6	17		435347	2007 VB ₁₆₀		6 20.9 307°22	7°0°/19.9	16	
5 21	18 28.05	-30 37.8	1.988	2.865	12.2	22.1	5 21	18 20.52	-7 54.3	1.800	2.671	13.5	20.8
5 31	18 20.78	-31 21.4	1.904	2.850	8.9	21.9	5 31	18 15.19	-6 45.5	1.727	2.659	10.7	20.6
6 10	18 11.15	-32 0.6	1.844	2.835	5.5	21.6	6 10	18 8.00	-5 46.4	1.677	2.647	8.1	20.4
6 20	17 59.94	-32 31.1	1.811	2.819	3.3	21.5	6 20	17 59.68	-5 1.0	1.652	2.636	7.0	20.3
6 30	17 48.30	-32 50.2	1.806	2.802	5.2	21.6	6 30	17 51.18	-4 32.2	1.652	2.624	8.2	20.4
7 10	17 37.51	-32 57.3	1.828	2.785	8.7	21.7	7 10	17 43.49	-4 21.3	1.677	2.613	10.9	20.5
7 20	17 28.65	-32 54.5	1.875	2.767	12.3	21.9	7 20	17 37.44	-4 27.3	1.723	2.602	13.9	20.7
7 30	17 22.50	-32 44.9	1.942	2.748	15.4	22.1	7 30	17 33.63	-4 48.0	1.789	2.591	16.6	20.8
106239	2000 UM ₄₆		6 20.9 300°27	0°7°/20.9	18		369980	1997 TQ ₁₁		6 20.9 305°86	0°8°/20.9	18	
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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
510768	2013 <i>AZ</i> ₂₅		6 20.9 257°18	0°1/20.9	18		154943	2004 <i>TR</i> ₆₀		6 20.9 143°45	3°9/20.9	18	
5 21	18 23.14	-22 35.0	2.127	3.011	11.2	22.1	5 21	18 19.16	-10 28.7	2.668	3.531	9.9	20.3
5 31	18 17.01	-22 53.1	2.042	2.996	8.0	21.9	5 31	18 13.69	-10 7.6	2.603	3.537	7.5	20.2
6 10	18 9.00	-23 12.2	1.982	2.981	4.3	21.6	6 10	18 7.01	-9 53.5	2.564	3.542	5.2	20.0
6 20	17 59.79	-23 30.8	1.950	2.966	0.4	21.3	6 20	17 59.66	-9 47.2	2.552	3.547	3.9	19.9
6 30	17 50.28	-23 47.5	1.945	2.950	3.6	21.5	6 30	17 52.27	-9 49.2	2.568	3.552	4.8	20.0
7 10	17 41.48	-24 1.9	1.968	2.934	7.5	21.7	7 10	17 45.48	-9 59.2	2.611	3.557	7.0	20.2
7 20	17 34.23	-24 14.3	2.015	2.918	11.0	21.9	7 20	17 39.85	-10 16.4	2.679	3.561	9.4	20.3
7 30	17 29.19	-24 25.6	2.085	2.902	14.1	22.1	7 30	17 35.78	-10 39.6	2.770	3.565	11.5	20.5
63068	Moraes		6 20.9 179°46	7°3/19.8	18		24552	2226 <i>P-L</i>		6 20.9 281°43	0°6/20.9	18	
5 21	18 19.15	+ 4 30.9	3.252	4.043	10.0	20.4	5 21	18 23.13	-22 5.5	1.772	2.664	12.7	20.2
5 31	18 13.50	+ 5 29.5	3.188	4.045	8.7	20.3	5 31	18 17.20	-22 0.0	1.697	2.655	9.0	20.0
6 10	18 6.83	+ 6 15.9	3.149	4.046	7.7	20.3	6 10	18 9.18	-21 54.7	1.646	2.646	4.9	19.7
6 20	17 59.59	+ 6 47.7	3.136	4.046	7.3	20.2	6 20	17 59.86	-21 49.2	1.621	2.637	0.8	19.4
6 30	17 52.30	+ 7 3.5	3.149	4.046	7.7	20.3	6 30	17 50.33	-21 43.2	1.622	2.628	4.1	19.6
7 10	17 45.48	+ 7 3.6	3.187	4.045	8.7	20.3	7 10	17 41.73	-21 37.2	1.649	2.619	8.4	19.9
7 20	17 39.60	+ 6 49.0	3.249	4.044	10.0	20.4	7 20	17 34.99	-21 32.4	1.700	2.610	12.4	20.1
7 30	17 35.02	+ 6 22.0	3.331	4.043	11.3	20.5	7 30	17 30.78	-21 29.8	1.772	2.601	15.7	20.3
491593	2012 <i>SB</i> ₄₆		6 20.9 203°26	0°9/20.9	18		389045	2008 <i>VO</i> ₂		6 20.9 297°12	0°7/20.9	18	
5 21	18 24.09	-26 7.9	2.289	3.169	10.7	22.2	5 21	18 24.21	-25 39.4	1.667	2.560	13.2	20.4
5 31	18 17.49	-26 15.6	2.214	3.165	7.6	22.0	5 31	18 18.34	-25 34.2	1.574	2.532	9.6	20.1
6 10	18 9.16	-26 20.9	2.164	3.161	4.2	21.8	6 10	18 9.98	-25 25.7	1.504	2.503	5.3	19.8
6 20	17 59.80	-26 22.1	2.141	3.156	1.0	21.5	6 20	17 59.94	-25 12.4	1.459	2.475	0.9	19.4
6 30	17 50.31	-26 18.8	2.147	3.151	3.5	21.7	6 30	17 49.41	-24 53.8	1.440	2.446	4.5	19.6
7 10	17 41.60	-26 11.4	2.181	3.145	7.0	21.9	7 10	17 39.73	-24 31.2	1.447	2.418	9.3	19.8
7 20	17 34.45	-26 1.3	2.240	3.139	10.2	22.1	7 20	17 32.07	-24 6.9	1.477	2.389	13.7	20.0
7 30	17 29.43	-25 50.2	2.322	3.133	13.0	22.3	7 30	17 27.26	-23 43.8	1.527	2.361	17.5	20.2
254459	2005 <i>CG</i> ₄₄		6 20.9 30°02	3°2/20.9	17		169051	2001 <i>FF</i> ₉₂		6 20.9 10°76	13°8/20.4	18	
5 21	18 24.75	-29 11.8	1.087	1.998	17.2	19.9	5 21	18 29.84	-51 35.8	1.391	2.233	18.3	18.8
5 31	18 19.09	-29 32.7	1.044	2.009	12.4	19.6	5 31	18 23.61	-53 18.8	1.347	2.236	16.2	18.7
6 10	18 10.36	-29 46.4	1.021	2.020	7.2	19.4	6 10	18 13.24	-54 35.4	1.322	2.240	14.5	18.6
6 20	17 59.91	-29 49.0	1.019	2.032	3.2	19.2	6 20	18 0.22	-55 15.7	1.317	2.245	13.8	18.5
6 30	17 49.54	-29 39.3	1.041	2.045	6.1	19.4	6 30	17 46.91	-55 15.0	1.332	2.251	14.4	18.6
7 10	17 41.00	-29 19.6	1.084	2.059	11.0	19.7	7 10	17 35.79	-54 36.3	1.366	2.259	15.9	18.7
7 20	17 35.47	-28 54.0	1.148	2.074	15.6	20.0	7 20	17 28.58	-53 28.4	1.419	2.267	18.0	18.9
7 30	17 33.56	-28 26.9	1.230	2.089	19.4	20.3	7 30	17 26.06	-52 1.8	1.488	2.276	20.0	19.0
523100	2016 <i>RT</i> ₄₈		6 20.9 318°05	1°2/20.9	18		358344	2006 <i>VZ</i> ₁₄₃		6 20.9 254°19	4°2/20.9	18	
5 21	18 22.06	-25 39.8	1.771	2.665	12.6	21.1	5 21	18 25.54	-36 19.8	2.496	3.358	10.5	21.6
5 31	18 16.55	-25 59.6	1.696	2.654	9.0	20.9	5 31	18 18.69	-36 44.2	2.407	3.340	8.0	21.4
6 10	18 8.86	-26 18.1	1.644	2.643	5.0	20.6	6 10	18 9.91	-37 0.2	2.342	3.321	5.6	21.2
6 20	17 59.81	-26 33.0	1.617	2.632	1.3	20.3	6 20	17 59.93	-37 4.7	2.305	3.301	4.2	21.1
6 30	17 50.48	-26 42.8	1.616	2.622	4.3	20.5	6 30	17 49.68	-36 56.1	2.296	3.281	5.2	21.1
7 10	17 42.07	-26 47.4	1.642	2.612	8.5	20.7	7 10	17 40.18	-36 35.3	2.314	3.261	7.7	21.2
7 20	17 35.53	-26 48.0	1.691	2.602	12.3	21.0	7 20	17 32.29	-36 4.6	2.357	3.240	10.4	21.4
7 30	17 31.59	-26 46.3	1.760	2.593	15.6	21.2	7 30	17 26.67	-35 27.6	2.423	3.219	13.0	21.5
510201	2011 <i>CW</i> ₇₅		6 20.9 20°19	25°3/16.0	17		506975	2008 <i>SP</i> ₁₀₃		6 20.9 264°26	8°3/20.3	18	
5 21	19 6.79	-77 2.1	1.111	1.824	29.2	18.9	5 21	18 30.01	-43 37.1	1.907	2.757	13.8	21.1
5 31	18 58.96	-78 36.0	1.103	1.842	28.2	18.9	5 31	18 22.65	-44 40.9	1.832	2.744	11.3	20.9
6 10	18 34.71	-79 17.7	1.104	1.863	27.2	18.9	6 10	18 12.37	-45 30.1	1.779	2.730	9.2	20.7
6 20	18 1.84	-78 51.2	1.113	1.886	26.3	18.9	6 20	18 0.15	-45 58.1	1.750	2.717	8.3	20.7
6 30	17 34.33	-77 13.4	1.132	1.911	25.7	19.0	6 30	17 47.48	-46 1.0	1.746	2.703	9.1	20.7
7 10	17 19.68	-74 37.9	1.163	1.938	25.3	19.0	7 10	17 36.00	-45 39.5	1.767	2.689	11.3	20.8
7 20	17 16.73	-71 23.2	1.206	1.966	25.3	19.1	7 20	17 27.04	-44 58.3	1.810	2.674	14.0	20.9
7 30	17 22.01	-67 45.7	1.263	1.996	25.5	19.3	7 30	17 21.46	-44 4.0	1.873	2.660	16.5	21.1
426662	2013 <i>TZ</i> ₂		6 20.9 155°89	7°2/20.4	17		335529	2006 <i>AE</i> ₅₇		6 20.9 49°51	0°6/20.9	17	
5 21	18 32.01	-43 33.3	2.261	3.099	12.3	21.6	5 21	18 24.13	-24 43.2	1.601	2.496	13.6	20.8
5 31	18 23.55	-44 41.6	2.202	3.107	10.0	21.4	5 31	18 17.97	-24 50.3	1.543	2.501	9.6	20.6
6 10	18 12.61	-45 35.9	2.168	3.115	8.1	21.3	6 10	18 9.57	-24 55.8	1.507	2.507	5.2	20.3
6 20	18 0.15	-46 10.8	2.159	3.121	7.2	21.3	6 20	17 59.90	-24 58.0	1.497	2.513	0.8	20.0
6 30	17 47.47	-46 23.5	2.178	3.127	8.0	21.3	6 30	17 50.16	-24 56.3	1.513	2.519	4.3	20.3
7 10	17 35.96	-46 14.9	2.222	3.133	9.8	21.5	7 10	17 41.61	-24 51.2	1.554	2.525	8.7	20.6
7 20	17 26.68	-45 49.2	2.289	3.138	12.0	21.6	7 20	17 35.18	-24 44.4	1.619	2.531	12.7	20.8
7 30	17 20.35	-45 11.7	2.377	3.142	14.0	21.8	7 30	17 31.50	-24 37.6	1.703	2.538	16.0	21.0
442989	2013 <i>CB</i> ₁₇₀		6 20.9 156°62	2°2/21.1	18		110744	2001 <i>UB</i> ₃		6 20.9 147°45	0°6/20.9	18	
5 21	18 23.10	-31 7.8	2.615	3.488	9.7	22.1	5 21	18 21.98	-21 4.7	2.420	3.300	10.1	20.2
5 31	18 16.61	-31 14.7	2.548	3.493	7.1	22.0	5 31	18 15.85	-21 13.8	2.355	3.306	7.2	20.0
6 10	18 8.62	-31 15.9	2.506	3.498	4.2	21.8	6 10	18 8.24	-21 24.1	2.314	3.312	3.9	19.8
6 20	17 59.79	-31 10.1	2.492	3.502	2.3	21.7	6 20	17 59.78	-21 34.8	2.302	3.318	0.7	19.5
6 30	17 50.93	-30 56.8	2.507	3.506	3.7	21.8	6 30	17 51.26	-21 45.2	2.318	3.323	3.2	19.8
7 10	17 42.87	-30 37.1	2.550	3.509	6.4	22.0	7 10	17 43.47	-21 55.1	2.363	3.328	6.5	20.0
7 20	17 36.24	-30 12.8	2.618	3.513	9.1	22.1	7 20	17 37.06	-22 4.8	2.433	3.333	9.5	20.2
7 30	17 31.55	-29 46.3	2.710	3.516	11.5	22.3	7 30	17 32.53	-22 14.7	2.526	3.337	12.1	20.4
374917	2006 <i>XG</i> ₆₀		6 20.9 301°17	2°0/20.9	17		187618	2007 <i></i>					

EPHEMERIDES

6 20.9

6 20.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
250593	2005 <i>EA</i> ₁₃		6 20.9 191 ^o .02	2 ^o .6/20.9 17			65347	2002 <i>NR</i> ₂₀		6 20.9 349 ^o .71	4 ^o .7/20.8 18		
5 21	18 27.89	-28 51.1	1.604	2.492	13.9	20.4	5 21	18 22.23	-14 38.8	1.264	2.165	16.0	19.2
5 31	18 20.84	-29 18.2	1.538	2.492	10.1	20.2	5 31	18 17.00	-14 3.8	1.204	2.161	11.9	18.9
6 10	18 11.23	-29 40.5	1.495	2.491	5.9	19.9	6 10	18 9.24	-13 37.4	1.164	2.158	7.5	18.6
6 20	18 0.06	-29 54.3	1.477	2.489	2.7	19.7	6 20	17 59.94	-13 21.5	1.148	2.156	4.8	18.5
6 30	17 48.69	-29 57.6	1.486	2.488	5.1	19.9	6 30	17 50.47	-13 17.6	1.155	2.154	6.9	18.6
7 10	17 38.55	-29 51.0	1.520	2.486	9.4	20.1	7 10	17 42.24	-13 25.7	1.185	2.152	11.2	18.8
7 20	17 30.74	-29 37.4	1.578	2.484	13.4	20.3	7 20	17 36.34	-13 44.7	1.236	2.152	15.5	19.1
7 30	17 25.99	-29 20.3	1.655	2.481	16.8	20.6	7 30	17 33.49	-14 12.6	1.304	2.151	19.2	19.3
262355	2006 <i>TN</i> ₇₃		6 20.9 166 ^o .71	0 ^o .8/20.9 17			259348	2003 <i>GN</i> ₂₄		6 20.9 296 ^o .79	4 ^o .0/20.5 18		
5 21	18 26.66	-24 43.5	1.898	2.781	12.3	21.3	5 21	18 23.77	-32 56.9	2.093	2.971	11.6	20.5
5 31	18 19.56	-25 3.7	1.832	2.786	8.8	21.0	5 31	18 17.71	-33 46.7	2.015	2.960	8.6	20.3
6 10	18 10.38	-25 22.8	1.791	2.789	4.8	20.8	6 10	18 9.52	-34 30.8	1.962	2.949	5.7	20.1
6 20	17 59.98	-25 38.5	1.777	2.793	0.9	20.5	6 20	17 59.97	-35 5.4	1.935	2.937	4.0	19.9
6 30	17 49.46	-25 49.3	1.791	2.795	4.0	20.8	6 30	17 50.09	-35 27.7	1.935	2.926	5.5	20.0
7 10	17 39.95	-25 55.4	1.831	2.797	8.0	21.0	7 10	17 41.02	-35 37.2	1.962	2.915	8.4	20.2
7 20	17 32.35	-25 57.9	1.896	2.799	11.6	21.2	7 20	17 33.72	-35 35.7	2.012	2.905	11.5	20.3
7 30	17 27.28	-25 58.6	1.983	2.800	14.7	21.4	7 30	17 28.91	-35 26.3	2.084	2.894	14.3	20.5
218221	2002 <i>VZ</i> ₂₉		6 20.9 274 ^o .47	0 ^o .9/20.9 18			12898	Mignard		6 20.9 334 ^o .61	3 ^o .2/21.0 18		
5 21	18 25.47	-24 51.2	1.620	2.513	13.6	20.5	5 21	18 19.23	-14 39.0	1.907	2.794	12.2	17.6
5 31	18 19.24	-25 9.6	1.538	2.495	9.8	20.3	5 31	18 14.29	-14 30.6	1.834	2.784	8.9	17.3
6 10	18 10.47	-25 27.3	1.478	2.477	5.4	20.0	6 10	18 7.59	-14 29.1	1.783	2.775	5.6	17.1
6 20	18 0.01	-25 41.9	1.443	2.458	1.0	19.6	6 20	17 59.79	-14 34.9	1.759	2.767	3.3	17.0
6 30	17 49.09	-25 51.3	1.434	2.440	4.6	19.8	6 30	17 51.81	-14 47.9	1.760	2.759	4.9	17.0
7 10	17 39.12	-25 55.6	1.451	2.421	9.4	20.0	7 10	17 44.60	-15 7.6	1.788	2.752	8.3	17.2
7 20	17 31.24	-25 55.9	1.491	2.402	13.7	20.3	7 20	17 38.94	-15 33.1	1.839	2.745	11.8	17.4
7 30	17 26.32	-25 54.6	1.551	2.383	17.4	20.5	7 30	17 35.43	-16 3.1	1.911	2.739	14.8	17.6
503977	2004 <i>TB</i> ₂₂		6 20.9 214 ^o .74	6 ^o .7/20.4 18			286527	2002 <i>CU</i> ₇₅		6 20.9 159 ^o .37	3 ^o .3/21.0 18		
5 21	18 22.22	- 5 7.7	2.173	3.024	12.3	21.7	5 21	18 23.69	-33 26.4	2.362	3.235	10.6	20.8
5 31	18 16.13	- 4 16.7	2.101	3.017	9.9	21.6	5 31	18 17.26	-33 43.5	2.294	3.237	7.9	20.6
6 10	18 8.45	- 3 36.8	2.052	3.010	7.7	21.4	6 10	18 9.09	-33 53.5	2.251	3.238	5.1	20.4
6 20	17 59.82	- 3 10.7	2.029	3.003	6.7	21.3	6 20	17 59.92	-33 53.9	2.235	3.240	3.3	20.3
6 30	17 51.05	- 3 0.3	2.032	2.995	7.6	21.4	6 30	17 50.68	-33 44.1	2.247	3.241	4.5	20.4
7 10	17 42.98	- 3 5.6	2.061	2.986	9.8	21.5	7 10	17 42.32	-33 24.9	2.286	3.242	7.3	20.6
7 20	17 36.32	- 3 25.2	2.114	2.977	12.3	21.6	7 20	17 35.58	-32 58.9	2.350	3.244	10.1	20.8
7 30	17 31.61	- 3 57.0	2.188	2.968	14.7	21.8	7 30	17 31.02	-32 28.8	2.437	3.245	12.6	20.9
50546	2000 <i>ED</i> ₁₈		6 20.9 280 ^o .86	3 ^o .7/21.5 18			352006	2006 <i>UK</i> ₂₈₇		6 20.9 295 ^o .61	2 ^o .5/20.8 16		
5 21	18 22.10	-11 38.5	1.938	2.813	12.5	18.6	5 21	18 21.18	-17 39.1	1.989	2.875	11.8	21.4
5 31	18 16.34	-11 56.9	1.860	2.803	9.4	18.4	5 31	18 15.60	-17 12.3	1.914	2.866	8.5	21.2
6 10	18 8.70	-12 26.1	1.806	2.793	6.0	18.2	6 10	18 8.25	-16 48.4	1.863	2.858	5.0	21.0
6 20	17 59.86	-13 5.7	1.777	2.783	3.8	18.0	6 20	17 59.85	-16 28.3	1.838	2.849	2.5	20.8
6 30	17 50.75	-13 54.2	1.776	2.772	5.2	18.1	6 30	17 51.30	-16 12.8	1.841	2.841	4.5	20.9
7 10	17 42.36	-14 49.5	1.801	2.762	8.5	18.3	7 10	17 43.55	-16 2.7	1.869	2.833	8.1	21.1
7 20	17 35.54	-15 49.1	1.851	2.752	12.0	18.5	7 20	17 37.38	-15 58.5	1.922	2.825	11.5	21.3
7 30	17 30.93	-16 50.8	1.923	2.742	15.0	18.6	7 30	17 33.36	-16 0.3	1.996	2.817	14.5	21.5
62605	2000 <i>SV</i> ₃₂₀		6 20.9 320 ^o .59	5 ^o .1/20.8 18			261010	2005 <i>SY</i> ₁₀₃		6 20.9 242 ^o .00	4 ^o .6/20.9 18		
5 21	18 24.23	-36 26.0	1.987	2.861	12.3	18.5	5 21	18 24.60	-37 18.9	2.442	3.305	10.7	20.6
5 31	18 18.09	-37 5.9	1.915	2.854	9.4	18.3	5 31	18 18.03	-37 49.4	2.366	3.297	8.2	20.4
6 10	18 9.71	-37 36.4	1.868	2.847	6.6	18.1	6 10	18 9.57	-38 10.8	2.314	3.290	5.9	20.3
6 20	17 59.95	-37 53.4	1.845	2.840	5.1	18.0	6 20	17 59.98	-38 20.2	2.289	3.282	4.6	20.2
6 30	17 49.96	-37 54.8	1.849	2.834	6.3	18.1	6 30	17 50.20	-38 15.8	2.292	3.274	5.5	20.2
7 10	17 40.97	-37 41.2	1.878	2.828	9.0	18.2	7 10	17 41.26	-37 58.6	2.321	3.266	7.8	20.4
7 20	17 33.97	-37 15.7	1.931	2.822	12.0	18.4	7 20	17 33.99	-37 31.0	2.375	3.257	10.4	20.5
7 30	17 29.63	-36 42.5	2.004	2.816	14.7	18.6	7 30	17 28.98	-36 56.7	2.452	3.249	12.8	20.7
413473	2005 <i>GZ</i> ₁₂₅		6 20.9 161 ^o .22	1 ^o .6/20.9 17			479186	2013 <i>CB</i> ₆₃		6 20.9 24 ^o .93	2 ^o .3/21.2 16		
5 21	18 28.11	-26 53.7	1.737	2.622	13.2	21.8	5 21	18 23.12	-30 51.0	2.035	2.918	11.6	20.9
5 31	18 20.74	-27 11.2	1.674	2.628	9.4	21.5	5 31	18 16.95	-30 42.0	1.971	2.921	8.4	20.7
6 10	18 11.08	-27 25.3	1.635	2.633	5.3	21.3	6 10	18 8.94	-30 26.0	1.931	2.925	5.0	20.5
6 20	18 0.08	-27 33.3	1.622	2.637	1.6	21.1	6 20	17 59.91	-30 1.7	1.917	2.928	2.3	20.3
6 30	17 48.99	-27 33.9	1.637	2.640	4.4	21.3	6 30	17 50.90	-29 29.4	1.930	2.932	4.1	20.4
7 10	17 39.07	-27 27.8	1.677	2.643	8.6	21.5	7 10	17 42.90	-28 51.3	1.971	2.936	7.6	20.7
7 20	17 31.30	-27 17.3	1.742	2.646	12.4	21.8	7 20	17 36.70	-28 10.1	2.036	2.941	10.8	20.9
7 30	17 26.32	-27 5.0	1.828	2.648	15.6	22.0	7 30	17 32.83	-27 29.0	2.122	2.945	13.7	21.1
136833	1997 <i>UP</i>		6 20.9 258 ^o .38	4 ^o .9/20.7 18			442123	2010 <i>TT</i> ₁₇₈		6 20.9 9 ^o .58	6 ^o .0/20.7 17		
5 21	18 24.92	-13 23.3	1.510	2.396	14.8	20.3	5 21	18 24.23	-38 0.2	1.877	2.751	12.9	20.2
5 31	18 18.75	-12 47.9	1.434	2.382	11.1	20.1	5 31	18 18.18	-38 51.0	1.817	2.752	10.0	20.0
6 10	18 10.16	-12 20.3	1.379	2.368	7.3	19.8	6 10	18 9.79	-39 30.6	1.779	2.754	7.4	19.9
6 20	18 0.02	-12 2.5	1.349	2.354	4.9	19.6	6 20	18 0.00	-39 54.6	1.767	2.756	6.0	19.8
6 30	17 49.53	-11 56.1	1.345	2.339	6.8	19.7	6 30	17 50.04	-40 0.5	1.780	2.759	7.1	19.9
7 10	17 40.02	-12 1.6	1.364	2.324	10.8	19.9	7 10	17 41.22	-39 49.2	1.818	2.763	9.6	20.0
7 20	17 32.57	-12 18.3	1.407	2.309	14.9	20.1	7 20	17 34.54	-39 24.1	1.879	2.766	12.4	20.2
7 30													

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
374286	2005 <i>QB</i> ₇₂		6 20.9 256°54	2°2/20.9	18		63943	2001 <i>SR</i> ₅₆		6 20.9 340°48	0°9/20.9	18	
5 21	18 24.76	-17 50.8	1.930	2.811	12.3	21.7	5 21	18 21.45	-20 26.4	1.878	2.769	12.1	19.0
5 31	18 18.34	-17 38.0	1.840	2.791	8.9	21.5	5 31	18 15.91	-20 33.4	1.809	2.766	8.6	18.8
6 10	18 9.86	-17 28.6	1.775	2.770	5.2	21.2	6 10	18 8.48	-20 42.9	1.764	2.763	4.7	18.5
6 20	18 0.02	-17 22.6	1.736	2.748	2.3	21.0	6 20	17 59.91	-20 54.0	1.745	2.760	1.0	18.3
6 30	17 49.82	-17 20.2	1.724	2.726	4.6	21.1	6 30	17 51.19	-21 5.8	1.752	2.758	3.9	18.5
7 10	17 40.36	-17 21.8	1.740	2.703	8.6	21.2	7 10	17 43.33	-21 18.1	1.786	2.755	7.9	18.7
7 20	17 32.56	-17 27.7	1.779	2.680	12.4	21.4	7 20	17 37.17	-21 31.0	1.844	2.754	11.5	18.9
7 30	17 27.15	-17 38.0	1.840	2.656	15.7	21.6	7 30	17 33.32	-21 44.7	1.923	2.752	14.6	19.1
445389	2010 <i>RE</i> ₁₅₃		6 20.9 280°78	3°3/21.1	18		81015	2000 <i>EF</i> ₃₈		6 20.9 172°63	0°7/20.9	18	R
5 21	18 23.36	-33 19.0	2.266	3.142	10.9	21.3	5 21	18 26.57	-25 21.9	1.897	2.781	12.3	20.2
5 31	18 17.18	-33 30.4	2.187	3.131	8.1	21.1	5 31	18 19.50	-25 26.5	1.830	2.784	8.8	20.0
6 10	18 9.13	-33 34.3	2.131	3.119	5.2	20.9	6 10	18 10.39	-25 28.6	1.788	2.786	4.8	19.8
6 20	17 59.95	-33 28.4	2.103	3.108	3.3	20.8	6 20	18 0.08	-25 26.7	1.772	2.788	0.8	19.5
6 30	17 50.61	-33 11.9	2.102	3.097	4.6	20.9	6 30	17 49.68	-25 20.2	1.784	2.789	4.0	19.7
7 10	17 42.11	-32 46.0	2.128	3.086	7.6	21.0	7 10	17 40.32	-25 10.0	1.823	2.790	8.0	20.0
7 20	17 35.28	-32 13.2	2.178	3.075	10.6	21.2	7 20	17 32.87	-24 57.8	1.887	2.790	11.6	20.2
7 30	17 30.70	-31 36.7	2.251	3.064	13.3	21.4	7 30	17 27.94	-24 45.6	1.972	2.790	14.7	20.4
342777	2008 <i>WH</i> ₁₀₆		6 20.9 214°42	2°4/20.9	17		311442	2005 <i>UZ</i> ₂₃₃		6 20.9 157°46	4°0/20.7	18	
5 21	18 25.08	-29 43.7	2.064	2.944	11.6	21.5	5 21	18 19.82	-11 36.9	2.398	3.268	10.6	20.6
5 31	18 18.47	-30 4.9	1.991	2.940	8.4	21.3	5 31	18 14.32	-11 4.8	2.332	3.269	8.0	20.5
6 10	18 9.85	-30 21.1	1.942	2.936	5.0	21.1	6 10	18 7.46	-10 39.2	2.290	3.271	5.5	20.3
6 20	18 0.02	-30 29.9	1.920	2.932	2.5	20.9	6 20	17 59.82	-10 21.6	2.274	3.272	4.0	20.2
6 30	17 50.01	-30 29.9	1.926	2.927	4.4	21.0	6 30	17 52.12	-10 12.7	2.286	3.273	5.1	20.3
7 10	17 40.91	-30 21.6	1.959	2.921	7.8	21.2	7 10	17 45.10	-10 12.7	2.326	3.274	7.6	20.5
7 20	17 33.61	-30 7.2	2.016	2.916	11.2	21.4	7 20	17 39.36	-10 21.1	2.390	3.275	10.2	20.6
7 30	17 28.73	-29 49.3	2.096	2.910	14.1	21.6	7 30	17 35.35	-10 36.7	2.476	3.276	12.6	20.8
250891	2005 <i>VL</i> ₄₂		6 20.9 218°71	6°6/20.7	18		508256	2015 <i>HR</i> ₈₄		6 20.9 173°63	1°7/20.9	17	
5 21	18 26.79	-43 35.2	2.472	3.314	11.3	20.4	5 21	18 23.51	-18 17.2	2.169	3.048	11.2	21.9
5 31	18 19.72	-44 23.5	2.404	3.311	9.2	20.2	5 31	18 17.09	-18 13.0	2.100	3.050	8.0	21.7
6 10	18 10.55	-44 59.2	2.359	3.307	7.4	20.1	6 10	18 9.01	-18 11.8	2.057	3.052	4.6	21.5
6 20	18 0.08	-45 18.2	2.339	3.304	6.6	20.0	6 20	17 59.97	-18 13.4	2.040	3.054	1.8	21.3
6 30	17 49.42	-45 18.5	2.346	3.300	7.2	20.1	6 30	17 50.83	-18 17.7	2.052	3.055	3.9	21.4
7 10	17 39.71	-45 0.9	2.379	3.297	9.0	20.2	7 10	17 42.50	-18 24.4	2.092	3.055	7.4	21.7
7 20	17 31.89	-44 28.6	2.436	3.293	11.1	20.3	7 20	17 35.69	-18 33.8	2.156	3.055	10.6	21.9
7 30	17 26.60	-43 46.1	2.513	3.289	13.1	20.5	7 30	17 30.96	-18 45.8	2.243	3.055	13.4	22.1
41944	2000 <i>XR</i> ₂		6 20.9 171°00	5°8/21.2	18		294901	2008 <i>DJ</i> ₂₃		6 20.9 53°93	8°4/21.8	18	
5 21	18 29.36	-39 54.9	2.141	2.997	12.3	19.9	5 21	18 19.64	+ 0 40.3	2.040	2.875	13.6	20.1
5 31	18 21.55	-40 24.4	2.076	3.000	9.6	19.7	5 31	18 14.30	+ 1 9.8	1.990	2.887	11.3	20.0
6 10	18 11.50	-40 41.1	2.034	3.002	7.1	19.6	6 10	18 7.46	+ 1 21.6	1.962	2.900	9.4	19.9
6 20	18 0.17	-40 41.2	2.019	3.004	5.8	19.5	6 20	17 59.82	+ 1 13.7	1.958	2.913	8.4	19.9
6 30	17 48.77	-40 23.3	2.030	3.006	6.6	19.5	6 30	17 52.18	+ 0 45.9	1.979	2.925	8.8	19.9
7 10	17 38.55	-39 49.1	2.068	3.007	9.0	19.7	7 10	17 45.36	+ 0 0.2	2.024	2.938	10.5	20.0
7 20	17 30.46	-39 3.0	2.130	3.008	11.6	19.8	7 20	17 39.97	- 1 0.1	2.092	2.952	12.5	20.2
7 30	17 25.13	-38 10.0	2.213	3.008	14.1	20.0	7 30	17 36.51	- 2 10.8	2.181	2.965	14.6	20.4
286934	2002 <i>PA</i> ₁₂₄		6 20.9 335°05	3°9/21.5	17		366304	2013 <i>CC</i> ₃₈		6 20.9 74°89	4°1/20.7	17	
5 21	18 17.24	-14 20.7	0.979	1.898	17.9	19.2	5 21	18 21.23	-12 16.5	2.247	3.119	11.2	20.9
5 31	18 14.32	-14 42.9	0.904	1.872	13.3	18.8	5 31	18 15.23	-11 35.8	2.201	3.140	8.3	20.8
6 10	18 8.27	-15 22.7	0.848	1.848	8.2	18.4	6 10	18 7.89	-11 1.8	2.179	3.162	5.6	20.6
6 20	17 59.92	-16 20.2	0.812	1.825	4.0	18.1	6 20	17 59.86	-10 36.1	2.184	3.183	4.1	20.6
6 30	17 50.78	-17 32.6	0.797	1.804	6.8	18.2	6 30	17 51.93	-10 19.7	2.147	3.204	5.2	20.7
7 10	17 42.72	-18 54.9	0.802	1.785	12.6	18.4	7 10	17 44.85	-10 12.7	2.277	3.226	7.7	20.9
7 20	17 37.35	-20 21.4	0.826	1.768	18.2	18.7	7 20	17 39.19	-10 14.6	2.361	3.247	10.3	21.1
7 30	17 35.85	-21 47.2	0.866	1.753	23.1	18.9	7 30	17 35.36	-10 24.2	2.468	3.268	12.6	21.3
353109	2009 <i>FV</i> ₂		6 20.9 331°00	7°3/21.1	17		467824	2010 <i>LW</i> ₉₈		6 20.9 316°81	21°2/17.3	17	
5 21	18 19.46	- 4 12.8	1.895	2.754	13.5	20.2	5 21	18 19.49	+17 51.0	1.269	2.049	23.1	20.4
5 31	18 14.40	- 3 40.6	1.827	2.748	10.9	20.0	5 31	18 15.34	+19 41.9	1.205	2.023	22.1	20.2
6 10	18 7.63	- 3 23.0	1.781	2.742	8.5	19.8	6 10	18 8.55	+20 55.7	1.155	1.999	21.4	20.1
6 20	17 59.83	- 3 22.4	1.760	2.736	7.3	19.7	6 20	17 59.95	+21 21.6	1.119	1.975	21.3	20.0
6 30	17 51.88	- 3 39.7	1.763	2.731	8.1	19.8	6 30	17 50.80	+20 52.5	1.099	1.951	21.8	19.9
7 10	17 44.69	- 4 13.9	1.792	2.727	10.4	19.9	7 10	17 42.56	+19 27.8	1.092	1.929	23.0	19.9
7 20	17 39.02	- 5 2.3	1.842	2.722	13.0	20.1	7 20	17 36.46	+17 13.6	1.100	1.907	24.6	20.0
7 30	17 35.45	- 6 1.3	1.914	2.718	15.6	20.2	7 30	17 33.48	+14 20.4	1.121	1.887	26.5	20.0
398929	2013 <i>CT</i> ₁₈₁		6 20.9 107°31	5°9/20.6	16		386412	2008 <i>US</i> ₂₈₄		6 20.9 247°45	0°7/20.9	17	
5 21	18 26.84	-41 5.1	2.458	3.307	11.1	21.0	5 21	18 24.09	-24 44.0	1.912	2.800	12.1	21.8
5 31	18 19.62	-41 59.4	2.403	3.319	8.8	20.9	5 31	18 17.86	-24 58.8	1.837	2.792	8.6	21.5
6 10	18 10.43	-42 42.3	2.373	3.331	6.8	20.8	6 10	18 9.58	-25 12.5	1.786	2.785	4.7	21.3
6 20	18 0.08	-43 9.9	2.369	3.343	5.9	20.8	6 20	18 0.03	-25 23.4	1.761	2.777	0.8	21.0
6 30	17 49.63	-43 20.1	2.393	3.355	6.6	20.8	6 30	17 50.26	-25 30.2	1.764	2.769	3.9	21.2
7 10	17 40.17	-43 14.0	2.442	3.367	8.5	21.0	7 10	17 41.37	-25 33.0	1.793	2.761	8.0	21.4
7 20	17 32.54	-42 54.3	2.516	3.378	10.6	21.1	7 20	17 34.27	-25 32.9	1.847	2.753	11.7	21.6
7 30	17 27.34	-42 25.2	2.611	3.389	12.6	21.3	7 30	17 29.63	-25 31.5	1.922	2.745	14.9	21.8
505753	2015 <i>BE</i> ₁₀₃		6 20.9 230°28	2°8/21.0	1								

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
180780	2004 <i>RY</i> ₄₈		6 20.9 333°38	0°3/20.9	18		479902	2014 <i>HK</i> ₄₀		6 20.9 9°16	4°2/20.6	16	
5 21	18 20.36	-22 5.7	1.872	2.766	12.0	19.7	5 21	18 23.83	-32 25.3	1.851	2.735	12.6	20.8
5 31	18 15.23	-22 15.4	1.798	2.756	8.5	19.5	5 31	18 17.86	-33 18.4	1.788	2.736	9.3	20.6
6 10	18 8.17	-22 26.5	1.747	2.747	4.6	19.2	6 10	18 9.66	-34 5.2	1.749	2.737	6.1	20.4
6 20	17 59.91	-22 37.7	1.722	2.738	0.5	18.9	6 20	18 0.09	-34 41.5	1.735	2.739	4.2	20.3
6 30	17 51.44	-22 48.2	1.723	2.730	3.9	19.1	6 30	17 50.30	-35 4.5	1.748	2.741	5.7	20.4
7 10	17 43.80	-22 57.8	1.751	2.722	7.9	19.4	7 10	17 41.53	-35 14.1	1.786	2.743	8.9	20.6
7 20	17 37.84	-23 6.7	1.802	2.714	11.6	19.6	7 20	17 34.76	-35 12.3	1.848	2.746	12.1	20.8
7 30	17 34.20	-23 15.7	1.874	2.707	14.8	19.8	7 30	17 30.67	-35 2.5	1.931	2.749	15.0	21.0
13630	1995 <i>WO</i> ₃		6 20.9 259°86	0°7/20.9	18		470671	2008 <i>SL</i> ₂₀₃		6 20.9 268°34	1°5/21.0	16	
5 21	18 25.79	-22 2.0	1.720	2.608	13.1	19.0	5 21	18 23.08	-19 21.2	1.835	2.723	12.5	21.9
5 31	18 19.32	-21 56.9	1.635	2.590	9.4	18.8	5 31	18 17.18	-19 22.3	1.758	2.713	9.0	21.7
6 10	18 10.50	-21 52.1	1.573	2.572	5.2	18.5	6 10	18 9.25	-19 26.6	1.705	2.703	5.0	21.4
6 20	18 0.14	-21 46.7	1.537	2.553	0.8	18.1	6 20	18 0.05	-19 33.4	1.678	2.693	1.5	21.2
6 30	17 49.40	-21 40.3	1.528	2.534	4.4	18.3	6 30	17 50.61	-19 42.4	1.678	2.683	4.2	21.3
7 10	17 39.55	-21 33.6	1.545	2.514	9.0	18.6	7 10	17 42.00	-19 53.1	1.704	2.672	8.3	21.6
7 20	17 31.65	-21 27.8	1.586	2.494	13.2	18.8	7 20	17 35.15	-20 5.8	1.754	2.662	12.1	21.8
7 30	17 26.48	-21 24.4	1.648	2.473	16.8	18.9	7 30	17 30.72	-20 20.5	1.825	2.651	15.4	22.0
79053	5153 <i>T</i> -2		6 20.9 219°77	1°3/20.9	18		430317	2013 <i>YV</i> ₇		6 20.9 20°39	2°9/20.5	17	
5 21	18 25.98	-21 5.8	1.756	2.642	13.0	20.0	5 21	18 23.44	-19 48.1	1.479	2.376	14.3	20.0
5 31	18 19.23	-20 44.8	1.682	2.636	9.3	19.8	5 31	18 17.51	-18 46.1	1.421	2.380	10.3	19.8
6 10	18 10.33	-20 24.1	1.632	2.630	5.2	19.5	6 10	18 9.38	-17 44.7	1.386	2.384	6.0	19.6
6 20	18 0.12	-20 3.5	1.608	2.623	1.4	19.2	6 20	18 0.05	-16 46.3	1.376	2.389	2.9	19.4
6 30	17 49.73	-19 43.9	1.611	2.615	4.4	19.4	6 30	17 50.76	-15 54.2	1.392	2.394	5.5	19.6
7 10	17 40.35	-19 26.3	1.640	2.607	8.7	19.6	7 10	17 42.71	-15 11.3	1.433	2.399	9.7	19.8
7 20	17 32.92	-19 12.3	1.694	2.599	12.7	19.9	7 20	17 36.81	-14 39.1	1.496	2.406	13.7	20.1
7 30	17 28.08	-19 3.1	1.768	2.590	16.0	20.1	7 30	17 33.63	-14 18.2	1.578	2.412	17.1	20.3
446599	2015 <i>MB</i> ₈		6 20.9 355°32	4°4/21.4	16		111468	Alba Regia		6 20.9 195°59	2°3/20.8	18	
5 21	18 20.02	-10 43.0	1.881	2.758	12.7	21.4	5 21	18 20.98	-16 10.9	2.687	3.560	9.5	20.5
5 31	18 14.84	-10 43.2	1.814	2.756	9.6	21.2	5 31	18 15.08	-15 50.3	2.612	3.557	6.9	20.4
6 10	18 7.89	-10 54.2	1.770	2.755	6.5	21.0	6 10	18 7.88	-15 32.8	2.563	3.554	4.2	20.2
6 20	17 59.90	-11 16.3	1.752	2.754	4.5	20.9	6 20	17 59.92	-15 19.1	2.542	3.551	2.3	20.0
6 30	17 51.75	-11 48.9	1.760	2.753	5.7	21.0	6 30	17 51.89	-15 9.5	2.550	3.547	3.8	20.1
7 10	17 44.41	-12 30.4	1.794	2.752	8.7	21.2	7 10	17 44.46	-15 4.5	2.586	3.543	6.5	20.3
7 20	17 38.64	-13 18.6	1.851	2.752	11.9	21.4	7 20	17 38.22	-15 4.1	2.648	3.539	9.2	20.5
7 30	17 35.02	-14 11.1	1.930	2.753	14.8	21.6	7 30	17 33.63	-15 8.2	2.733	3.534	11.5	20.6
4018	Bratislava		6 20.9 232°28	0°6/20.9	18		156918	2003 <i>FC</i> ₅₀		6 20.9 126°11	5°6/21.5	17	
5 21	18 24.62	-22 18.9	2.025	2.909	11.7	18.1	5 21	18 24.22	-6 48.3	2.042	2.898	12.8	20.6
5 31	18 18.12	-22 10.4	1.945	2.899	8.3	17.8	5 31	18 17.52	-6 39.3	1.989	2.914	9.9	20.5
6 10	18 9.68	-22 1.4	1.890	2.888	4.5	17.6	6 10	18 9.22	-6 42.7	1.959	2.929	7.2	20.3
6 20	18 0.06	-21 51.6	1.861	2.877	0.7	17.3	6 20	18 0.04	-6 59.3	1.955	2.943	5.6	20.3
6 30	17 50.24	-21 40.8	1.861	2.866	3.8	17.5	6 30	17 50.87	-7 28.5	1.978	2.957	6.5	20.3
7 10	17 41.25	-21 29.9	1.887	2.854	7.8	17.7	7 10	17 42.58	-8 8.8	2.028	2.970	8.9	20.5
7 20	17 33.94	-21 19.9	1.939	2.841	11.4	17.9	7 20	17 35.88	-8 57.5	2.102	2.983	11.6	20.7
7 30	17 28.94	-21 12.3	2.012	2.828	14.5	18.1	7 30	17 31.25	-9 52.1	2.198	2.995	14.1	20.9
348767	2006 <i>JW</i> ₃₆		6 20.9 236°42	5°0/21.4	18		376190	2011 <i>CN</i> ₆₅		6 20.9 177°34	6°2/21.3	17	
5 21	18 22.03	-8 22.6	2.111	2.974	12.1	20.8	5 21	18 22.95	-6 34.5	1.915	2.775	13.3	20.9
5 31	18 16.15	-8 18.6	2.034	2.965	9.4	20.6	5 31	18 16.84	-6 16.3	1.850	2.776	10.4	20.7
6 10	18 8.58	-8 25.9	1.981	2.957	6.6	20.4	6 10	18 8.96	-6 11.2	1.808	2.777	7.7	20.6
6 20	17 59.97	-8 45.1	1.954	2.948	5.0	20.3	6 20	18 0.03	-6 20.6	1.790	2.778	6.2	20.5
6 30	17 51.15	-9 16.1	1.954	2.939	6.0	20.4	6 30	17 50.98	-6 44.9	1.800	2.778	7.1	20.5
7 10	17 43.01	-9 57.5	1.980	2.929	8.7	20.5	7 10	17 42.77	-7 22.4	1.835	2.778	9.7	20.7
7 20	17 36.31	-10 47.2	2.031	2.919	11.6	20.7	7 20	17 36.16	-8 10.8	1.894	2.777	12.6	20.9
7 30	17 31.62	-11 42.7	2.104	2.909	14.4	20.8	7 30	17 31.73	-9 7.0	1.973	2.777	15.2	21.0
476354	2008 <i>BN</i> ₃		6 20.9 178°33	2°4/21.2	17		312552	2009 <i>FB</i> ₄₁		6 20.9 353°94	6°5/21.2	17	
5 21	18 24.64	-31 43.7	2.358	3.232	10.6	21.9	5 21	18 21.50	-10 45.3	1.159	2.058	17.3	19.7
5 31	18 17.88	-31 37.1	2.287	3.233	7.7	21.7	5 31	18 16.67	-10 17.2	1.102	2.055	13.2	19.4
6 10	18 9.43	-31 23.4	2.242	3.233	4.7	21.5	6 10	18 9.19	-10 4.0	1.064	2.052	9.1	19.2
6 20	18 0.04	-31 1.3	2.223	3.233	2.4	21.3	6 20	18 0.07	-10 8.1	1.047	2.050	6.6	19.1
6 30	17 50.63	-30 30.9	2.234	3.234	3.9	21.5	6 30	17 50.73	-10 30.2	1.054	2.048	8.2	19.1
7 10	17 42.13	-29 53.9	2.272	3.233	7.0	21.6	7 10	17 42.67	-11 8.4	1.082	2.048	12.2	19.4
7 20	17 35.27	-29 13.1	2.336	3.233	10.0	21.8	7 20	17 37.03	-11 59.2	1.130	2.048	16.5	19.6
7 30	17 30.55	-28 31.4	2.422	3.232	12.5	22.0	7 30	17 34.58	-12 58.5	1.196	2.049	20.2	19.9
278069	2006 <i>YW</i> ₅₂		6 20.9 217°35	0°2/20.9	17		353890	2012 <i>XF</i> ₂₉		6 20.9 326°19	0°4/20.9	16	
5 21	18 25.79	-23 1.4	1.953	2.837	12.0	21.9	5 21	18 22.80	-24 26.5	1.879	2.770	12.1	20.8
5 31	18 19.01	-23 2.4	1.876	2.829	8.6	21.7	5 31	18 16.91	-24 28.6	1.811	2.767	8.6	20.6
6 10	18 10.19	-23 2.9	1.823	2.822	4.7	21.5	6 10	18 9.06	-24 29.4	1.766	2.765	4.7	20.3
6 20	18 0.13	-23 1.8	1.797	2.813	0.4	21.1	6 20	18 0.05	-24 27.6	1.746	2.762	0.6	20.0
6 30	17 49.85	-22 58.6	1.799	2.804	3.9	21.4	6 30	17 50.91	-24 22.7	1.754	2.760	3.9	20.3
7 10	17 40.46	-22 53.7	1.828	2.795	8.0	21.6	7 10	17 42.70	-24 15.5	1.789	2.758	7.9	20.5
7 20	17 32.85	-22 48.4	1.882	2.784	11.7	21.8	7 20	17 36.29	-24 7.2	1.847	2.756	11.5	20.7
7 30	17 27.67	-22 44.1	1.957	2.774	14.9	22.0	7 30	17 32.27	-23 59.3	1.927	2.755	14.7	20.9
87179	2000 <i>ON</i> ₇		6 20.9 309°49	6°9/21.5	18		503983	2004 <i>TN</i> ₉₃		6 20.9 190°16	0°1/20.9	17	

EPHEMERIDES

6 20.9

6 21.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
335584	2006 <i>DL</i> ₄₁		6 20.9 112°88	2:2/20.8	18		213226	2000 <i>WQ</i> ₂₄		6 21.0 307°21	0:5/21.1	18	
5 21	18 28.62	-20 5.3	1.474	2.364	14.8	20.6	5 21	18 22.16	-20 11.5	1.898	2.787	12.1	19.5
5 31	18 21.09	-19 29.0	1.424	2.380	10.6	20.4	5 31	18 16.74	-20 45.5	1.804	2.759	8.7	19.3
6 10	18 11.28	-18 54.2	1.397	2.394	5.9	20.2	6 10	18 9.19	-21 24.7	1.733	2.732	4.8	19.0
6 20	18 0.25	-18 21.6	1.395	2.408	2.2	20.0	6 20	18 0.15	-22 7.0	1.689	2.705	0.7	18.6
6 30	17 49.37	-17 52.9	1.419	2.422	5.1	20.2	6 30	17 50.61	-22 50.1	1.672	2.678	4.0	18.8
7 10	17 39.92	-17 29.8	1.469	2.436	9.6	20.5	7 10	17 41.66	-23 32.1	1.682	2.651	8.3	19.0
7 20	17 32.82	-17 13.6	1.542	2.448	13.6	20.8	7 20	17 34.33	-24 12.0	1.715	2.625	12.3	19.2
7 30	17 28.62	-17 4.9	1.635	2.461	16.9	21.0	7 30	17 29.42	-24 49.5	1.770	2.598	15.7	19.4
391350	2006 <i>UG</i> ₂₂₂		6 20.9 325°92	0:5/20.9	17		152854	1999 <i>VD</i> ₂₁₃		6 21.0 158°18	0:3/20.9	18	
5 21	18 22.04	-22 45.9	1.902	2.793	12.0	20.5	5 21	18 21.21	-24 4.2	2.701	3.580	9.3	21.6
5 31	18 16.33	-22 31.2	1.831	2.788	8.5	20.2	5 31	18 15.31	-24 12.3	2.633	3.584	6.5	21.5
6 10	18 8.74	-22 15.9	1.784	2.784	4.6	20.0	6 10	18 8.05	-24 19.6	2.590	3.588	3.5	21.3
6 20	18 0.03	-21 59.6	1.764	2.779	0.7	19.7	6 20	18 0.03	-24 25.1	2.575	3.591	0.4	21.0
6 30	17 51.21	-21 42.8	1.770	2.775	3.9	19.9	6 30	17 51.93	-24 28.3	2.590	3.595	2.9	21.2
7 10	17 43.30	-21 26.4	1.802	2.772	7.9	20.1	7 10	17 44.49	-24 29.5	2.632	3.598	5.9	21.4
7 20	17 37.11	-21 11.8	1.859	2.768	11.5	20.4	7 20	17 38.30	-24 29.2	2.701	3.600	8.7	21.6
7 30	17 33.23	-21 0.3	1.937	2.765	14.6	20.6	7 30	17 33.82	-24 28.4	2.793	3.603	11.1	21.8
130601	2000 <i>SD</i>		6 20.9 207°72	9:6/21.9	18		379217	2009 <i>SY</i> ₁₅₆		6 21.0 265°43	1:1/21.0	17	
5 21	18 41.54	-56 47.5	2.670	3.430	12.7	19.7	5 21	18 24.95	-20 38.9	1.771	2.659	12.9	22.0
5 31	18 30.51	-57 26.7	2.597	3.422	11.3	19.5	5 31	18 18.71	-20 38.4	1.685	2.640	9.3	21.8
6 10	18 16.48	-57 44.9	2.545	3.414	10.2	19.4	6 10	18 10.22	-20 39.8	1.623	2.621	5.1	21.5
6 20	18 0.74	-57 36.4	2.517	3.405	9.7	19.4	6 20	18 0.24	-20 42.5	1.586	2.602	1.2	21.1
6 30	17 45.02	-56 58.9	2.513	3.396	9.9	19.4	6 30	17 49.88	-20 45.7	1.577	2.582	4.3	21.3
7 10	17 31.04	-55 54.9	2.534	3.385	10.9	19.4	7 10	17 40.33	-20 49.6	1.593	2.562	8.8	21.6
7 20	17 20.01	-54 30.2	2.579	3.374	12.3	19.5	7 20	17 32.63	-20 54.8	1.634	2.541	12.9	21.7
7 30	17 12.58	-52 52.6	2.644	3.362	13.8	19.6	7 30	17 27.54	-21 2.1	1.695	2.520	16.4	21.9
114448	2003 <i>AL</i> ₂₁		6 20.9 283°67	1:1/20.9	18		150587	2000 <i>WF</i> ₂₆		6 21.0 200°29	0:1/21.0	18	
5 21	18 25.44	-25 24.2	1.592	2.486	13.7	20.0	5 21	18 21.35	-23 20.9	2.853	3.729	8.9	20.9
5 31	18 19.37	-25 40.0	1.507	2.465	9.9	19.7	5 31	18 15.39	-23 26.7	2.775	3.726	6.3	20.8
6 10	18 10.69	-25 54.5	1.444	2.443	5.5	19.4	6 10	18 8.10	-23 32.0	2.724	3.721	3.4	20.6
6 20	18 0.25	-26 5.1	1.406	2.421	1.2	19.0	6 20	18 0.03	-23 36.0	2.701	3.717	0.3	20.3
6 30	17 49.30	-26 10.1	1.394	2.400	4.7	19.2	6 30	17 51.86	-23 38.4	2.707	3.712	2.8	20.5
7 10	17 39.28	-26 9.4	1.407	2.378	9.5	19.5	7 10	17 44.26	-23 39.3	2.742	3.707	5.8	20.7
7 20	17 31.38	-26 4.7	1.444	2.356	14.0	19.7	7 20	17 37.84	-23 39.1	2.804	3.701	8.5	20.9
7 30	17 26.50	-25 58.5	1.500	2.334	17.8	19.8	7 30	17 33.05	-23 38.7	2.889	3.695	10.8	21.0
249798	2000 <i>YZ</i> ₆₃		6 20.9 245°25	2:4/21.1	18		314508	2005 <i>XS</i> ₃₀		6 21.0 218°24	2:2/20.7	18	
5 21	18 25.96	-16 47.1	1.726	2.609	13.4	20.7	5 21	18 20.72	-16 50.7	2.829	3.701	9.1	21.3
5 31	18 19.41	-16 50.2	1.644	2.595	9.8	20.5	5 31	18 14.89	-16 18.6	2.749	3.694	6.6	21.1
6 10	18 10.58	-16 59.4	1.584	2.579	5.7	20.2	6 10	18 7.81	-15 48.5	2.695	3.686	4.0	21.0
6 20	18 0.24	-17 14.1	1.550	2.563	2.5	20.0	6 20	18 0.01	-15 21.3	2.669	3.678	2.2	20.8
6 30	17 49.50	-17 33.5	1.544	2.546	4.9	20.1	6 30	17 52.12	-14 57.9	2.673	3.670	3.7	20.9
7 10	17 39.60	-17 56.9	1.563	2.529	9.2	20.3	7 10	17 44.80	-14 39.2	2.705	3.661	6.3	21.1
7 20	17 31.57	-18 23.6	1.607	2.511	13.3	20.5	7 20	17 38.61	-14 25.5	2.763	3.652	8.9	21.2
7 30	17 26.18	-18 53.1	1.671	2.492	16.8	20.7	7 30	17 33.98	-14 17.2	2.844	3.642	11.2	21.4
11260	Camargo		6 20.9 263°24	0:8/20.9	18		336876	2011 <i>GQ</i> ₄₁		6 21.0 351°60	0:4/20.9	18	
5 21	18 26.05	-24 48.5	1.510	2.405	14.3	18.2	5 21	18 24.86	-21 34.6	1.613	2.506	13.6	19.9
5 31	18 19.73	-25 0.0	1.438	2.396	10.2	17.9	5 31	18 18.73	-22 27.7	1.547	2.505	9.7	19.7
6 10	18 10.82	-25 10.2	1.388	2.388	5.6	17.7	6 10	18 10.24	-23 25.1	1.505	2.504	5.3	19.4
6 20	18 0.26	-25 16.7	1.363	2.379	0.9	17.3	6 20	18 0.25	-24 22.9	1.487	2.503	0.6	19.1
6 30	17 49.41	-25 18.4	1.364	2.370	4.7	17.6	6 30	17 49.95	-25 17.5	1.497	2.503	4.4	19.4
7 10	17 39.68	-25 15.4	1.390	2.361	9.5	17.8	7 10	17 40.66	-26 6.3	1.533	2.503	8.9	19.6
7 20	17 32.23	-25 9.7	1.439	2.352	13.9	18.0	7 20	17 33.43	-26 48.7	1.592	2.502	13.0	19.9
7 30	17 27.83	-25 3.5	1.507	2.343	17.6	18.3	7 30	17 29.00	-27 25.3	1.671	2.502	16.4	20.1
98851	2001 <i>AW</i> ₃₃		6 21.0 123°26	0:2/21.0	18		348125	2004 <i>BQ</i> ₁₃		6 21.0 249°32	2:1/21.2	18	
5 21	18 25.00	-21 9.0	1.993	2.876	11.9	19.6	5 21	18 23.09	-16 4.8	2.324	3.198	10.7	21.1
5 31	18 18.34	-21 43.3	1.933	2.886	8.4	19.4	5 31	18 16.94	-16 18.2	2.234	3.181	7.8	20.9
6 10	18 9.80	-22 20.0	1.897	2.895	4.5	19.2	6 10	18 9.10	-16 37.2	2.170	3.163	4.6	20.7
6 20	18 0.17	-22 56.6	1.889	2.905	0.4	18.9	6 20	18 0.15	-17 1.1	2.133	3.144	2.1	20.5
6 30	17 50.44	-23 31.3	1.909	2.914	3.7	19.2	6 30	17 50.91	-17 28.9	2.124	3.125	3.9	20.6
7 10	17 41.62	-24 2.8	1.956	2.923	7.5	19.4	7 10	17 42.23	-17 59.8	2.144	3.106	7.3	20.7
7 20	17 34.52	-24 31.0	2.028	2.931	11.0	19.7	7 20	17 34.90	-18 32.7	2.189	3.086	10.5	20.9
7 30	17 29.74	-24 56.5	2.122	2.939	13.9	19.9	7 30	17 29.51	-19 7.1	2.257	3.066	13.4	21.1
395280	2010 <i>VA</i> ₆₆		6 21.0 294°43	5:2/20.7	18		353688	2011 <i>UT</i> ₃₀₇		6 21.0 137°76	1:6/20.9	18	
5 21	18 19.39	- 9 1.4	2.219	3.086	11.5	21.1	5 21	18 23.25	-26 45.4	2.346	3.226	10.4	21.1
5 31	18 14.25	- 8 27.4	2.140	3.073	8.9	20.9	5 31	18 17.00	-27 20.7	2.280	3.231	7.4	20.9
6 10	18 7.58	- 8 2.1	2.086	3.060	6.5	20.7	6 10	18 9.07	-27 54.1	2.240	3.236	4.2	20.7
6 20	17 59.98	- 7 47.4	2.057	3.048	5.2	20.6	6 20	18 0.14	-28 23.2	2.227	3.240	1.6	20.5
6 30	17 52.20	- 7 44.4	2.055	3.035	6.2	20.7	6 30	17 51.08	-28 46.5	2.242	3.245	3.6	20.7
7 10	17 45.06	- 7 53.1	2.079	3.023	8.6	20.8	7 10	17 42.79	-29 3.4	2.286	3.249	6.8	20.9
7 20	17 39.22	- 8 12.6	2.126	3.010	11.4	20.9	7 20	17 36.00	-29 14.6	2.354	3.253	9.9	21.1
7 30	17 35.24	- 8 41.1	2.195	2.998	13.9	21.1	7 30	17 31.26	-29 21.7	2.446	3.256	12.4	21.2
289833	2005 <i>LC</i> ₁₈		6 21.0 350°42	4:5/20.7	17		14334	1981 <i>EE</i> ₃₈					