

EPHEMERIDES

6 15.9

6 16.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
87505	2000 <i>QD</i> ₁₇₄		6 15.9	3°20	7.7/17.4	18	475162	2005 <i>UF</i> ₄₁₀		6 15.9	221°08	1.4/16.0	18
5 11	18 7.80	-40 33.0	1.379	2.220	18.4	19.2	5 11	18 3.93	-26 16.3	2.547	3.380	11.2	21.5
5 21	18 3.55	-40 58.5	1.311	2.219	15.1	19.0	5 21	17 58.85	-26 45.1	2.460	3.376	8.6	21.3
5 31	17 55.64	-41 6.8	1.263	2.219	11.6	18.7	5 31	17 51.91	-27 12.6	2.396	3.371	5.6	21.1
6 10	17 45.18	-40 51.9	1.235	2.219	8.6	18.6	6 10	17 43.65	-27 37.0	2.359	3.367	2.5	20.9
6 20	17 33.77	-40 10.9	1.230	2.221	7.8	18.5	6 20	17 34.80	-27 56.8	2.350	3.362	1.9	20.8
6 30	17 23.29	-39 6.1	1.249	2.223	10.0	18.7	6 30	17 26.20	-28 11.2	2.370	3.357	5.0	21.0
7 10	17 15.33	-37 44.7	1.289	2.226	13.4	18.9	7 10	17 18.64	-28 20.9	2.417	3.352	8.1	21.2
7 20	17 10.79	-36 15.9	1.350	2.230	16.9	19.1	7 20	17 12.74	-28 27.0	2.489	3.347	10.8	21.4
470932	2009 <i>FN</i> ₅₀		6 15.9	201°44	0°5/16.0	18	192661	1999 <i>RU</i> ₁₅₅		6 15.9	290°51	9.4/14.3	18
5 11	18 4.45	-23 54.8	2.356	3.192	11.9	21.5	5 11	18 1.94	- 2 7.2	1.798	2.616	15.7	20.0
5 21	17 59.30	-24 10.3	2.271	3.189	9.1	21.3	5 21	17 57.85	- 0 56.1	1.712	2.598	13.3	19.8
5 31	17 52.20	-24 25.3	2.209	3.187	5.8	21.1	5 31	17 51.52	+ 0 2.8	1.647	2.580	11.1	19.6
6 10	17 43.75	-24 38.6	2.174	3.184	2.3	20.9	6 10	17 43.57	+ 0 44.0	1.605	2.562	9.6	19.5
6 20	17 34.71	-24 49.0	2.167	3.181	1.5	20.8	6 20	17 34.84	+ 1 3.4	1.586	2.544	9.7	19.5
6 30	17 25.96	-24 56.5	2.189	3.178	5.1	21.0	6 30	17 26.34	+ 0 58.8	1.591	2.526	11.5	19.5
7 10	17 18.35	-25 1.5	2.237	3.174	8.5	21.2	7 10	17 19.08	+ 0 31.1	1.619	2.508	14.0	19.6
7 20	17 12.52	-25 5.3	2.309	3.170	11.4	21.4	7 20	17 13.81	- 0 16.5	1.666	2.490	16.8	19.8
68478	2001 <i>TR</i> ₂₆		6 15.9	85°19	2°2/16.2	18	333598	2007 <i>FQ</i> ₂₀		6 15.9	353°07	11.3/16.6	17
5 11	18 7.97	-28 55.2	1.666	2.513	15.5	19.7	5 11	17 59.39	+ 0 9.9	1.290	2.128	19.6	19.2
5 21	18 2.62	-29 5.2	1.600	2.523	11.9	19.5	5 21	17 56.52	+ 0 52.9	1.225	2.122	16.7	19.0
5 31	17 54.56	-29 9.5	1.555	2.532	7.8	19.2	5 31	17 50.92	+ 1 13.2	1.177	2.116	13.9	18.8
6 10	17 44.67	-29 6.0	1.535	2.542	3.7	19.0	6 10	17 43.38	+ 1 4.7	1.149	2.112	11.8	18.6
6 20	17 34.13	-28 53.3	1.540	2.552	2.9	19.0	6 20	17 34.99	+ 0 24.7	1.141	2.109	11.5	18.6
6 30	17 24.26	-28 32.7	1.572	2.561	6.7	19.2	6 30	17 27.04	- 0 45.8	1.155	2.108	13.1	18.7
7 10	17 16.24	-28 6.9	1.628	2.571	10.7	19.5	7 10	17 20.77	- 2 21.2	1.190	2.107	15.9	18.9
7 20	17 10.79	-27 39.7	1.707	2.580	14.2	19.7	7 20	17 17.02	- 4 14.0	1.243	2.108	19.0	19.1
229921	1995 <i>SC</i> ₄₃		6 15.9	156°59	1°8/16.1	18	389432	2010 <i>CB</i> ₄₂		6 15.9	183°91	1°2/16.1	17
5 11	18 7.08	-27 34.5	2.032	2.870	13.4	21.0	5 11	18 6.92	-26 57.7	2.241	3.074	12.5	22.2
5 21	18 1.59	-27 55.8	1.955	2.873	10.3	20.8	5 21	18 1.25	-27 2.1	2.158	3.074	9.6	22.0
5 31	17 53.79	-28 14.1	1.901	2.877	6.7	20.6	5 31	17 53.47	-27 3.0	2.098	3.074	6.2	21.8
6 10	17 44.38	-28 26.9	1.873	2.880	3.1	20.4	6 10	17 44.25	-26 59.2	2.065	3.074	2.6	21.6
6 20	17 34.31	-28 32.7	1.872	2.883	2.4	20.3	6 20	17 34.44	-26 49.8	2.060	3.073	1.9	21.5
6 30	17 24.68	-28 31.4	1.898	2.886	5.9	20.6	6 30	17 25.02	-26 35.4	2.083	3.071	5.4	21.8
7 10	17 16.50	-28 24.6	1.951	2.888	9.5	20.8	7 10	17 16.91	-26 17.8	2.133	3.069	8.9	22.0
7 20	17 10.48	-28 14.7	2.026	2.890	12.7	21.0	7 20	17 10.76	-25 59.2	2.206	3.067	11.9	22.2
436561	2011 <i>HY</i> ₂₅		6 15.9	182°98	5°1/15.2	18	179567	2002 <i>EU</i> ₈₀		6 15.9	92°30	4°9/15.5	16
5 11	18 11.82	-31 48.0	1.906	2.735	14.5	20.2	5 11	18 0.89	-10 14.0	2.133	2.965	13.0	20.2
5 21	18 5.83	-33 23.6	1.827	2.735	11.5	20.0	5 21	17 56.55	- 9 39.2	2.060	2.968	10.4	20.0
5 31	17 56.90	-34 57.1	1.772	2.736	8.2	19.8	5 31	17 50.41	- 9 11.7	2.010	2.972	7.6	19.8
6 10	17 45.71	-36 21.8	1.742	2.735	5.5	19.6	6 10	17 43.06	- 8 53.6	1.985	2.975	5.3	19.7
6 20	17 33.34	-37 31.5	1.740	2.735	5.5	19.6	6 20	17 35.24	- 8 46.4	1.987	2.979	5.2	19.7
6 30	17 21.20	-38 22.8	1.766	2.735	8.0	19.8	6 30	17 27.79	- 8 50.6	2.015	2.983	7.3	19.8
7 10	17 10.66	-38 56.0	1.817	2.734	11.3	20.0	7 10	17 21.47	- 9 5.7	2.068	2.987	10.0	20.0
7 20	17 2.74	-39 14.5	1.891	2.734	14.3	20.2	7 20	17 16.84	- 9 30.4	2.143	2.991	12.7	20.2
175521	2006 <i>SY</i> ₆₀		6 15.9	220°08	1°0/15.9	18	141133	2001 <i>XM</i> ₆₁		6 16.0	13°43	1°6/15.7	18
5 11	18 4.72	-24 56.5	2.292	3.128	12.1	20.5	5 11	18 3.02	-21 5.5	2.000	2.847	13.3	19.6
5 21	17 59.62	-25 25.0	2.206	3.125	9.3	20.3	5 21	17 58.36	-20 29.3	1.923	2.847	10.1	19.4
5 31	17 52.47	-25 53.1	2.144	3.122	6.0	20.1	5 31	17 51.63	-19 51.9	1.869	2.849	6.5	19.2
6 10	17 43.88	-26 18.9	2.109	3.118	2.5	19.9	6 10	17 43.54	-19 14.5	1.841	2.850	2.8	19.0
6 20	17 34.63	-26 40.6	2.101	3.114	1.8	19.8	6 20	17 34.93	-18 38.6	1.839	2.851	2.4	19.0
6 30	17 25.66	-26 57.5	2.122	3.110	5.3	20.0	6 30	17 26.77	-18 6.0	1.865	2.853	6.0	19.2
7 10	17 17.86	-27 10.1	2.169	3.106	8.7	20.2	7 10	17 19.95	-17 38.6	1.917	2.855	9.6	19.4
7 20	17 11.90	-27 19.6	2.240	3.102	11.7	20.4	7 20	17 15.07	-17 17.7	1.991	2.857	12.8	19.6
470682	2008 <i>ST</i> ₂₇₆		6 15.9	77°00	7°5/16.4	17	428651	2008 <i>GK</i> ₄₃		6 16.0	255°41	1°1/16.1	17
5 11	18 11.16	-40 33.1	1.810	2.628	15.6	20.8	5 11	18 7.53	-25 39.5	1.767	2.613	14.8	21.5
5 21	18 5.44	-41 39.2	1.746	2.637	12.9	20.7	5 21	18 2.45	-25 52.8	1.676	2.599	11.4	21.3
5 31	17 56.59	-42 33.2	1.703	2.647	10.1	20.5	5 31	17 54.65	-26 4.3	1.606	2.585	7.4	21.0
6 10	17 45.52	-43 8.6	1.684	2.656	7.9	20.4	6 10	17 44.82	-26 11.8	1.561	2.571	3.1	20.7
6 20	17 33.55	-43 21.4	1.690	2.666	7.6	20.4	6 20	17 34.01	-26 13.7	1.543	2.556	2.2	20.6
6 30	17 22.25	-43 11.3	1.720	2.675	9.3	20.5	6 30	17 23.50	-26 9.8	1.551	2.541	6.7	20.9
7 10	17 13.01	-42 42.1	1.774	2.685	11.9	20.7	7 10	17 14.53	-26 1.8	1.584	2.526	11.0	21.1
7 20	17 6.72	-42 0.0	1.850	2.694	14.5	20.9	7 20	17 8.02	-25 52.2	1.639	2.510	14.8	21.3
14531	1997 <i>PM</i> ₂		6 15.9	207°18	1°3/16.2	18	511217	2014 <i>AH</i> ₄₈		6 16.0	239°69	0°9/16.1	18
5 11	18 5.66	-27 49.7	2.417	3.248	11.8	19.3	5 11	18 7.83	-26 26.0	2.354	3.183	12.1	22.6
5 21	18 0.19	-27 52.2	2.329	3.244	9.0	19.1	5 21	18 2.02	-26 27.4	2.250	3.164	9.3	22.4
5 31	17 52.76	-27 51.0	2.264	3.239	5.9	18.9	5 31	17 54.06	-26 25.6	2.170	3.145	6.1	22.1
6 10	17 43.96	-27 44.5	2.225	3.233	2.6	18.7	6 10	17 44.52	-26 19.3	2.117	3.126	2.5	21.9
6 20	17 34.60	-27 32.3	2.215	3.228	1.9	18.6	6 20	17 34.23	-26 7.7	2.092	3.105	1.8	21.8
6 30	17 25.57	-27 14.8	2.234	3.222	5.2	18.8	6 30	17 24.16	-25 51.2	2.096	3.084	5.4	22.0
7 10	17 17.73	-26 53.8	2.279	3.215	8.4	19.0	7 10	17 15.25	-25 31.5	2.128	3.062	9.0	22.2
7 20	17 11.71	-26 31.6	2.349	3.208	11.4	19.2	7 20	17 8.24	-25 10.9	2.183	3.039	12.2	22.3
101053	1998 <i>QN</i> ₁₁₀		6 15.9	313°24	4°1/16.6	18	156992						

EPHEMERIDES

6 16.0

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
371593	2006 <i>WB</i> ₉₀		6 16.0 212°68	0°8/15.9	17		519179	2010 <i>OQ</i> ₈₈		6 16.0 257°60	4°7/15.8	18	
5 11	18 7.45	-21 32.6	2.034	2.872	13.4	22.1	5 11	18 0.80	-8 22.9	2.499	3.319	11.8	21.1
5 21	18 1.85	-21 24.1	1.946	2.865	10.3	21.9	5 21	17 56.33	-8 6.4	2.412	3.312	9.4	20.9
5 31	17 53.97	-21 15.4	1.880	2.858	6.6	21.7	5 31	17 50.24	-7 58.0	2.349	3.304	7.0	20.8
6 10	17 44.48	-21 6.1	1.840	2.850	2.6	21.4	6 10	17 43.02	-7 59.2	2.311	3.297	5.1	20.6
6 20	17 34.28	-20 56.3	1.828	2.841	1.9	21.3	6 20	17 35.31	-8 10.6	2.300	3.289	4.9	20.6
6 30	17 24.43	-20 46.6	1.844	2.832	6.0	21.6	6 30	17 27.82	-8 32.3	2.317	3.282	6.7	20.7
7 10	17 15.91	-20 38.3	1.886	2.822	9.8	21.8	7 10	17 21.26	-9 3.5	2.360	3.274	9.2	20.9
7 20	17 9.46	-20 32.7	1.951	2.812	13.2	22.0	7 20	17 16.15	-9 42.6	2.426	3.266	11.6	21.0
324435	2006 <i>TA</i> ₂		6 16.0 119°84	0°2/16.0	17		260467	2005 <i>BX</i> ₈		6 16.0 198°50	1°8/16.0	17	
5 11	18 8.74	-23 7.2	1.752	2.596	14.9	21.5	5 11	18 8.17	-17 59.8	1.663	2.508	15.6	20.8
5 21	18 2.99	-23 19.3	1.685	2.608	11.4	21.3	5 21	18 2.82	-18 10.7	1.584	2.506	12.0	20.5
5 31	17 54.72	-23 31.3	1.641	2.620	7.3	21.1	5 31	17 54.81	-18 26.7	1.526	2.504	7.8	20.3
6 10	17 44.75	-23 41.4	1.621	2.632	2.8	20.8	6 10	17 44.87	-18 46.8	1.493	2.501	3.4	20.0
6 20	17 34.15	-23 48.6	1.629	2.643	1.8	20.8	6 20	17 34.06	-19 10.0	1.486	2.498	2.6	19.9
6 30	17 24.14	-23 52.8	1.663	2.654	6.3	21.1	6 30	17 23.66	-19 35.4	1.506	2.495	7.0	20.2
7 10	17 15.81	-23 55.1	1.723	2.664	10.3	21.4	7 10	17 14.85	-20 2.4	1.551	2.491	11.3	20.4
7 20	17 9.88	-23 57.1	1.806	2.674	13.8	21.6	7 20	17 8.49	-20 31.0	1.618	2.487	15.1	20.7
479915	2014 <i>HF</i> ₅₀		6 16.0 215°85	5°6/15.9	18		463140	2011 <i>YP</i> ₁₂		6 16.0 110°38	2°4/15.9	17	
5 11	18 9.63	-39 45.7	2.638	3.437	11.8	21.8	5 11	18 8.05	-17 2.6	1.542	2.391	16.4	21.7
5 21	18 3.53	-40 43.1	2.549	3.430	9.7	21.6	5 21	18 2.69	-17 4.0	1.477	2.402	12.6	21.5
5 31	17 55.09	-41 32.4	2.483	3.422	7.5	21.5	5 31	17 54.65	-17 10.9	1.434	2.412	8.2	21.3
6 10	17 44.95	-42 9.3	2.443	3.414	5.9	21.4	6 10	17 44.77	-17 23.0	1.414	2.422	3.9	21.0
6 20	17 33.96	-42 30.6	2.431	3.405	5.7	21.3	6 20	17 34.19	-17 39.8	1.420	2.431	3.1	21.0
6 30	17 23.21	-42 35.3	2.446	3.396	7.2	21.4	6 30	17 24.23	-18 0.5	1.452	2.440	7.3	21.3
7 10	17 13.74	-42 25.1	2.487	3.387	9.3	21.5	7 10	17 16.03	-18 24.7	1.509	2.449	11.5	21.5
7 20	17 6.32	-42 3.4	2.551	3.377	11.6	21.7	7 20	17 10.37	-18 52.1	1.587	2.458	15.2	21.8
288757	2004 <i>RG</i> ₈₀		6 16.0 335°93	5°0/15.7	17		426095	2012 <i>DE</i> ₉₈		6 16.0 125°95	0°1/16.0	17	
5 11	18 1.38	-13 37.1	1.407	2.269	16.9	20.5	5 11	18 9.23	-22 40.1	1.695	2.540	15.3	21.8
5 21	17 57.98	-13 5.0	1.331	2.260	13.3	20.3	5 21	18 3.46	-22 50.8	1.628	2.552	11.7	21.6
5 31	17 51.85	-12 40.2	1.275	2.251	9.3	20.0	5 31	17 55.08	-23 1.7	1.583	2.563	7.5	21.4
6 10	17 43.76	-12 25.4	1.241	2.242	5.8	19.8	6 10	17 44.93	-23 11.3	1.563	2.573	2.8	21.1
6 20	17 34.77	-12 22.4	1.231	2.235	5.5	19.7	6 20	17 34.12	-23 18.3	1.569	2.583	1.9	21.1
6 30	17 26.20	-12 32.2	1.244	2.228	8.9	19.9	6 30	17 23.91	-23 22.8	1.603	2.593	6.5	21.4
7 10	17 19.27	-12 54.2	1.280	2.221	13.1	20.1	7 10	17 15.42	-23 25.8	1.661	2.602	10.6	21.7
7 20	17 14.86	-13 26.8	1.336	2.216	17.0	20.4	7 20	17 9.41	-23 29.0	1.742	2.611	14.2	21.9
208890	2002 <i>TB</i> ₁₁₂		6 16.0 243°79	6°6/15.3	18		491748	2012 <i>VV</i> ₆₈		6 16.0 230°67	0°3/16.0	17	
5 11	18 2.64	-4 9.0	2.334	3.141	12.9	20.7	5 11	18 5.30	-23 39.6	2.342	3.176	12.0	22.9
5 21	17 57.85	-3 32.1	2.244	3.128	10.7	20.5	5 21	18 0.04	-23 49.4	2.248	3.166	9.2	22.7
5 31	17 51.27	-3 5.4	2.176	3.114	8.5	20.3	5 31	17 52.76	-23 58.7	2.178	3.155	5.9	22.5
6 10	17 43.43	-2 51.7	2.133	3.100	6.9	20.2	6 10	17 44.05	-24 6.3	2.134	3.144	2.3	22.2
6 20	17 35.00	-2 52.8	2.116	3.085	6.8	20.2	6 20	17 34.66	-24 11.4	2.119	3.133	1.5	22.1
6 30	17 26.78	-3 9.4	2.125	3.071	8.4	20.3	6 30	17 25.53	-24 13.9	2.132	3.121	5.2	22.3
7 10	17 19.53	-3 40.5	2.160	3.055	10.8	20.4	7 10	17 17.51	-24 14.5	2.172	3.109	8.7	22.5
7 20	17 13.87	-4 24.0	2.217	3.040	13.2	20.5	7 20	17 11.30	-24 14.5	2.236	3.096	11.8	22.7
136946	1998 <i>QY</i> ₉₉		6 16.0 338°63	2°5/16.1	17		321359	2009 <i>MG</i> ₅		6 16.0 7°84	1°3/15.9	17	
5 11	18 0.37	-26 43.8	1.117	2.001	18.8	19.4	5 11	18 2.15	-20 31.9	1.153	2.032	18.7	20.4
5 21	17 58.27	-27 11.6	1.041	1.985	14.6	19.1	5 21	17 59.08	-20 32.5	1.091	2.033	14.3	20.1
5 31	17 52.61	-27 37.5	0.984	1.970	9.7	18.8	5 31	17 52.77	-20 36.1	1.048	2.034	9.2	19.9
6 10	17 44.21	-27 57.9	0.947	1.956	4.4	18.4	6 10	17 44.16	-20 42.4	1.026	2.037	3.7	19.6
6 20	17 34.42	-28 9.7	0.931	1.944	3.5	18.3	6 20	17 34.61	-20 50.6	1.027	2.041	2.7	19.5
6 30	17 25.08	-28 11.8	0.938	1.934	8.8	18.6	6 30	17 25.73	-21 0.5	1.051	2.046	8.1	19.8
7 10	17 17.95	-28 6.3	0.965	1.924	14.2	18.8	7 10	17 18.98	-21 12.8	1.096	2.052	13.2	20.1
7 20	17 14.21	-27 56.6	1.010	1.917	19.0	19.1	7 20	17 15.27	-21 27.8	1.160	2.059	17.6	20.4
418178	2008 <i>BQ</i> ₃₃		6 16.0 211°63	2°9/15.8	18		283681	2002 <i>QB</i> ₉₀		6 16.0 324°34	0°7/16.0	16	
5 11	18 7.27	-16 13.4	1.958	2.793	13.9	21.9	5 11	18 3.16	-20 33.5	1.698	2.553	14.8	20.5
5 21	18 1.73	-15 56.2	1.870	2.787	10.8	21.7	5 21	17 59.08	-20 49.8	1.615	2.543	11.4	20.3
5 31	17 53.92	-15 42.8	1.806	2.779	7.3	21.4	5 31	17 52.46	-21 9.3	1.552	2.534	7.3	20.0
6 10	17 44.48	-15 33.8	1.767	2.771	3.8	21.2	6 10	17 44.01	-21 30.8	1.515	2.525	2.9	19.7
6 20	17 34.31	-15 29.9	1.755	2.763	3.4	21.2	6 20	17 34.68	-21 53.0	1.502	2.516	2.0	19.6
6 30	17 24.47	-15 31.8	1.771	2.754	6.8	21.3	6 30	17 25.66	-22 15.1	1.516	2.508	6.6	19.9
7 10	17 15.95	-15 39.6	1.812	2.744	10.5	21.6	7 10	17 18.11	-22 36.7	1.555	2.500	10.9	20.1
7 20	17 9.51	-15 53.4	1.877	2.733	13.9	21.7	7 20	17 12.86	-22 58.4	1.615	2.493	14.6	20.3
410386	2007 <i>VJ</i> ₂₈₂		6 16.0 254°23	0°0/16.0	17		114582	2003 <i>BR</i> ₇₈		6 16.0 218°38	2°7/16.2	18	
5 11	17 59.36	-23 29.9	3.356	4.187	8.8	22.6	5 11	18 9.06	-29 37.5	2.008	2.841	13.7	20.5
5 21	17 54.94	-23 30.3	3.259	4.175	6.7	22.5	5 21	18 3.35	-30 3.4	1.919	2.834	10.7	20.3
5 31	17 49.21	-23 29.9	3.187	4.164	4.3	22.3	5 31	17 55.10	-30 25.0	1.853	2.826	7.2	20.0
6 10	17 42.59	-23 28.4	3.143	4.153	1.6	22.1	6 10	17 45.00	-30 39.3	1.813	2.818	3.7	19.8
6 20	17 35.58	-23 25.5	3.127	4.141	1.1	22.0	6 20	17 34.04	-30 44.0	1.800	2.809	3.1	19.7
6 30	17 28.75	-23 21.5	3.141	4.129	3.8	22.2	6 30	17 23.42	-30 39.0	1.814	2.799	6.4	19.9
7 10	17 22.64	-23 17.0	3.183	4.117	6.3	22.4	7 10	17 14.29	-30 25.9	1.855	2.789	10.1	20.1
7 20	17 17.70	-23 12.8	3.250	4.105	8.6	22.5	7 20	17 7.47	-30 8.1	1.918	2.779	13.4	20.3
391688	2008 <i>AJ</i> ₉₀		6 16.0 185°84	2°4/15.9	16		228347	2000 <i>SK</i> ₁₉₈					

EPHEMERIDES

6 16.0

6 16.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
497997	2007 <i>EK</i> ₁₉		6 16.0 143°23	5°5/15.9	17		477713	2010 <i>RY</i> ₁₇₅		6 16.0 208°88	1°4/16.2	18	
5 11	18 5.84	- 8 18.3	1.983	2.805	14.3	22.7	5 11	18 3.52	-28 23.8	2.729	3.557	10.6	22.3
5 21	18 0.41	- 7 56.6	1.913	2.814	11.4	22.6	5 21	17 58.41	-28 29.4	2.640	3.554	8.2	22.1
5 31	17 52.92	- 7 44.8	1.866	2.822	8.4	22.4	5 31	17 51.58	-28 31.4	2.576	3.550	5.4	21.9
6 10	17 44.08	- 7 44.9	1.843	2.830	6.0	22.3	6 10	17 43.57	-28 28.5	2.538	3.545	2.5	21.7
6 20	17 34.71	- 7 57.7	1.847	2.837	5.7	22.3	6 20	17 35.08	-28 20.2	2.529	3.541	1.9	21.7
6 30	17 25.77	- 8 22.9	1.878	2.844	7.9	22.4	6 30	17 26.88	-28 6.9	2.549	3.536	4.7	21.9
7 10	17 18.14	- 8 58.9	1.934	2.851	10.8	22.6	7 10	17 19.71	-27 49.9	2.596	3.531	7.6	22.1
7 20	17 12.43	- 9 43.7	2.013	2.856	13.6	22.8	7 20	17 14.11	-27 31.1	2.668	3.526	10.2	22.2
40143	1998 <i>QW</i> ₇₀		6 16.0 318°19	3°0/15.4	18		4294	Horatius		6 16.0 261°67	2°6/16.3	18	
5 11	18 1.10	-17 26.8	2.048	2.894	13.0	18.1	5 11	18 5.99	-30 18.3	1.983	2.822	13.7	17.4
5 21	17 56.97	-16 41.8	1.958	2.881	10.1	17.9	5 21	18 0.95	-30 33.5	1.902	2.819	10.6	17.2
5 31	17 50.84	-15 57.6	1.892	2.868	6.8	17.7	5 31	17 53.51	-30 43.2	1.844	2.817	7.1	17.0
6 10	17 43.32	-15 16.0	1.851	2.855	3.7	17.5	6 10	17 44.38	-30 44.9	1.810	2.815	3.7	16.8
6 20	17 35.18	-14 39.1	1.836	2.843	3.5	17.4	6 20	17 34.55	-30 37.2	1.803	2.812	3.1	16.7
6 30	17 27.36	-14 9.0	1.849	2.831	6.6	17.6	6 30	17 25.16	-30 20.6	1.823	2.810	6.2	16.9
7 10	17 20.71	-13 47.1	1.887	2.819	10.1	17.8	7 10	17 17.25	-29 57.4	1.869	2.807	9.8	17.1
7 20	17 15.89	-13 34.3	1.947	2.808	13.3	18.0	7 20	17 11.58	-29 30.8	1.938	2.805	13.0	17.3
316585	2011 <i>UV</i> ₈₀		6 16.0 294°39	4°7/15.8	18		519180	2010 <i>OD</i> ₉₇		6 16.0 288°77	1°1/15.8	18	
5 11	18 6.50	-33 31.5	2.053	2.884	13.5	20.4	5 11	18 2.43	-21 47.9	2.342	3.182	11.8	21.3
5 21	18 1.64	-34 30.4	1.960	2.869	10.8	20.2	5 21	17 57.71	-21 15.7	2.256	3.177	9.0	21.1
5 31	17 54.17	-35 24.7	1.890	2.853	7.8	20.0	5 31	17 51.18	-20 41.9	2.193	3.171	5.8	20.9
6 10	17 44.71	-36 10.0	1.844	2.838	5.2	19.8	6 10	17 43.43	-20 7.3	2.157	3.166	2.4	20.6
6 20	17 34.20	-36 42.3	1.826	2.823	5.0	19.8	6 20	17 35.19	-19 32.9	2.148	3.161	1.9	20.6
6 30	17 23.88	-36 59.7	1.834	2.807	7.4	19.9	6 30	17 27.30	-19 0.4	2.168	3.155	5.3	20.8
7 10	17 14.96	-37 3.3	1.867	2.792	10.6	20.1	7 10	17 20.52	-18 31.4	2.214	3.150	8.6	21.0
7 20	17 8.35	-36 56.1	1.922	2.777	13.7	20.2	7 20	17 15.43	-18 7.5	2.284	3.145	11.6	21.2
333860	1995 <i>UM</i> ₄₀		6 16.0 267°54	1°6/15.8	18		34810	2001 <i>SN</i> ₁₀₈		6 16.0 259°16	4°4/16.2	18	
5 11	18 5.37	-19 44.1	2.049	2.889	13.2	21.4	5 11	18 6.58	-34 44.3	2.267	3.091	12.7	19.0
5 21	18 0.41	-19 27.4	1.946	2.867	10.2	21.2	5 21	18 1.37	-35 25.5	2.179	3.082	10.1	18.8
5 31	17 53.18	-19 11.4	1.866	2.844	6.7	20.9	5 31	17 53.80	-36 0.3	2.113	3.073	7.3	18.6
6 10	17 44.27	-18 56.2	1.812	2.820	3.0	20.6	6 10	17 44.52	-36 25.0	2.072	3.064	4.9	18.4
6 20	17 34.52	-18 42.4	1.785	2.797	2.4	20.6	6 20	17 34.44	-36 36.9	2.059	3.055	4.6	18.4
6 30	17 24.95	-18 30.9	1.785	2.772	6.3	20.8	6 30	17 24.65	-36 35.4	2.072	3.045	6.7	18.5
7 10	17 16.57	-18 23.0	1.812	2.748	10.2	20.9	7 10	17 16.20	-36 22.2	2.112	3.036	9.6	18.7
7 20	17 10.17	-18 19.6	1.861	2.723	13.7	21.1	7 20	17 9.87	-36 0.5	2.174	3.026	12.4	18.8
90878	1996 <i>VY</i> ₃₇		6 16.0 209°27	1°8/16.1	18		245616	2005 <i>WU</i> ₁₁₅		6 16.0 160°12	4°6/15.6	18	
5 11	18 7.96	-27 56.3	2.329	3.157	12.2	21.1	5 11	18 5.12	-11 17.8	2.049	2.877	13.7	21.1
5 21	18 2.13	-28 16.9	2.238	3.151	9.4	20.9	5 21	17 59.85	-10 46.2	1.975	2.882	10.8	21.0
5 31	17 54.14	-28 34.5	2.170	3.144	6.2	20.7	5 31	17 52.59	-10 21.4	1.923	2.887	7.7	20.8
6 10	17 44.60	-28 47.0	2.129	3.136	2.9	20.4	6 10	17 43.98	-10 5.3	1.897	2.891	5.2	20.6
6 20	17 34.35	-28 52.6	2.117	3.127	2.3	20.4	6 20	17 34.85	- 9 59.2	1.898	2.894	5.0	20.6
6 30	17 24.39	-28 51.3	2.132	3.118	5.5	20.6	6 30	17 26.13	-10 3.8	1.926	2.897	7.3	20.8
7 10	17 15.67	-28 44.2	2.175	3.109	8.9	20.8	7 10	17 18.66	-10 18.6	1.980	2.900	10.4	21.0
7 20	17 8.90	-28 33.7	2.242	3.098	11.9	20.9	7 20	17 13.06	-10 42.3	2.056	2.902	13.2	21.1
90222	2003 <i>BD</i> ₁₁		6 16.0 52°80	1°0/16.1	18		147108	2002 <i>TZ</i> ₄₃		6 16.0 245°22	0°7/15.9	18	
5 11	18 4.14	-25 40.1	1.980	2.826	13.4	19.8	5 11	18 6.97	-21 43.1	1.793	2.639	14.6	20.6
5 21	17 59.32	-25 51.5	1.912	2.835	10.2	19.6	5 21	18 1.88	-21 39.4	1.704	2.627	11.2	20.3
5 31	17 52.33	-26 0.7	1.866	2.845	6.6	19.4	5 31	17 54.23	-21 36.1	1.636	2.615	7.3	20.1
6 10	17 43.87	-26 6.3	1.845	2.855	2.7	19.2	6 10	17 44.72	-21 32.4	1.593	2.603	2.9	19.8
6 20	17 34.87	-26 7.4	1.851	2.865	1.9	19.2	6 20	17 34.32	-21 28.0	1.577	2.591	2.0	19.7
6 30	17 26.36	-26 4.3	1.885	2.875	5.7	19.4	6 30	17 24.24	-21 23.2	1.588	2.578	6.6	20.0
7 10	17 19.27	-25 58.2	1.944	2.885	9.3	19.7	7 10	17 15.63	-21 19.5	1.624	2.564	10.8	20.2
7 20	17 14.24	-25 51.1	2.026	2.896	12.4	19.9	7 20	17 9.33	-21 18.1	1.682	2.551	14.6	20.4
352387	2007 <i>VP</i> ₃₃₁		6 16.0 255°55	0°9/15.9	18		112696	2002 <i>PJ</i> ₁₀₂		6 16.0 337°54	2°5/15.6	18	
5 11	18 3.76	-20 37.1	2.122	2.964	12.8	21.1	5 11	18 3.91	-20 40.0	1.310	2.179	17.5	19.6
5 21	17 58.99	-20 37.6	2.035	2.957	9.8	20.9	5 21	18 0.15	-19 57.7	1.237	2.173	13.5	19.3
5 31	17 52.15	-20 39.4	1.971	2.949	6.3	20.7	5 31	17 53.35	-19 14.1	1.183	2.167	8.8	19.0
6 10	17 43.84	-20 42.1	1.932	2.942	2.6	20.4	6 10	17 44.41	-18 31.1	1.152	2.161	4.0	18.7
6 20	17 34.87	-20 45.3	1.921	2.934	1.9	20.4	6 20	17 34.55	-17 51.0	1.145	2.156	3.5	18.7
6 30	17 26.21	-20 49.2	1.937	2.926	5.7	20.6	6 30	17 25.27	-17 17.0	1.161	2.152	8.3	19.0
7 10	17 18.74	-20 54.2	1.979	2.918	9.3	20.8	7 10	17 17.93	-16 51.9	1.200	2.148	13.1	19.2
7 20	17 13.15	-21 1.1	2.045	2.910	12.5	21.0	7 20	17 13.39	-16 37.0	1.259	2.145	17.4	19.5
50004	2000 <i>AS</i> ₁₆		6 16.0 130°91	1°4/16.2	18		101796	1999 <i>HN</i> ₃		6 16.0 241°50	5°1/15.6	18	
5 11	18 9.38	-26 47.3	1.773	2.615	14.9	19.7	5 11	18 10.66	-32 51.3	1.874	2.705	14.6	18.4
5 21	18 3.55	-26 55.2	1.704	2.625	11.4	19.5	5 21	18 5.07	-34 6.0	1.789	2.697	11.6	18.2
5 31	17 55.13	-26 59.4	1.657	2.634	7.4	19.2	5 31	17 56.51	-35 17.1	1.725	2.689	8.4	18.0
6 10	17 44.97	-26 58.0	1.635	2.644	3.1	19.0	6 10	17 45.68	-36 18.7	1.687	2.680	5.6	17.8
6 20	17 34.17	-26 49.9	1.639	2.652	2.2	18.9	6 20	17 33.65	-37 5.5	1.675	2.671	5.4	17.8
6 30	17 23.98	-26 35.9	1.671	2.661	6.3	19.2	6 30	17 21.84	-37 34.8	1.690	2.662	8.1	17.9
7 10	17 15.52	-26 18.3	1.728	2.669	10.3	19.5	7 10	17 11.64	-37 47.7	1.730	2.653	11.4	18.1
7 20	17 9.52	-26 0.0	1.808	2.676	13.8	19.7	7 20	17 4.09	-37 47.9	1.792	2.643	14.7	18.3
187321	2005 <i>UK</i> ₅₅		6 16.0 254°08	0°6/15.9	18		416254	2003 <i>EE</i>					

EPHEMERIDES

6 16.0

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
114302	2002 <i>XO</i> ₄₆		6 16.0 150°34	1.6/15.9	17		342141	2008 <i>SN</i> ₁₂₉		6 16.0 183°14	1.3/16.2	17	
5 11	18 7.23	-19 25.0	1.909	2.749	14.1	20.5	5 11	18 6.16	-26 48.3	1.932	2.775	13.8	21.4
5 21	18 1.68	-19 17.5	1.836	2.756	10.7	20.3	5 21	18 1.05	-26 54.0	1.853	2.775	10.6	21.2
5 31	17 53.85	-19 12.0	1.785	2.762	7.0	20.1	5 31	17 53.56	-26 56.4	1.797	2.775	6.9	21.0
6 10	17 44.50	-19 8.2	1.760	2.768	3.0	19.8	6 10	17 44.44	-26 53.8	1.766	2.775	2.9	20.8
6 20	17 34.54	-19 6.2	1.761	2.774	2.4	19.8	6 20	17 34.65	-26 45.3	1.761	2.774	2.1	20.7
6 30	17 25.07	-19 6.3	1.791	2.779	6.2	20.1	6 30	17 25.31	-26 31.5	1.784	2.774	6.0	20.9
7 10	17 17.04	-19 9.3	1.846	2.783	10.0	20.3	7 10	17 17.44	-26 14.5	1.833	2.774	9.8	21.2
7 20	17 11.15	-19 15.7	1.924	2.787	13.3	20.5	7 20	17 11.79	-25 56.5	1.904	2.773	13.2	21.4
71030	1999 <i>XM</i> ₆₇		6 16.0 300°05	2.2/15.5	18		355668	2008 <i>EM</i> ₁₂₉		6 16.0 157°27	4.3/15.7	16	
5 11	18 4.32	-21 8.2	1.723	2.575	14.8	18.8	5 11	18 1.78	-9 18.1	2.567	3.386	11.5	21.4
5 21	17 59.97	-20 17.3	1.625	2.553	11.4	18.5	5 21	17 56.98	-8 57.3	2.490	3.390	9.2	21.2
5 31	17 53.07	-19 22.7	1.550	2.530	7.5	18.2	5 31	17 50.63	-8 43.6	2.437	3.394	6.7	21.1
6 10	17 44.30	-18 26.2	1.499	2.508	3.4	17.9	6 10	17 43.25	-8 38.3	2.410	3.397	4.7	21.0
6 20	17 34.63	-17 30.1	1.475	2.486	3.1	17.8	6 20	17 35.46	-8 42.4	2.410	3.400	4.6	21.0
6 30	17 25.26	-16 38.0	1.477	2.464	7.3	18.0	6 30	17 27.95	-8 55.8	2.438	3.403	6.4	21.1
7 10	17 17.35	-15 53.3	1.503	2.442	11.7	18.2	7 10	17 21.39	-9 18.0	2.492	3.406	8.8	21.2
7 20	17 11.73	-15 18.3	1.551	2.420	15.6	18.4	7 20	17 16.28	-9 47.7	2.570	3.408	11.1	21.4
228394	2001 <i>BO</i> ₁₈		6 16.0 85°71	0.1/16.0	17		51068	2000 <i>GW</i> ₁₅₆		6 16.0 304°47	1.1/16.1	18	
5 11	18 7.38	-22 37.9	1.890	2.732	14.1	20.5	5 11	18 4.31	-25 57.3	1.937	2.783	13.6	19.3
5 21	18 1.73	-22 54.5	1.831	2.752	10.7	20.3	5 21	17 59.71	-26 7.2	1.853	2.777	10.5	19.1
5 31	17 53.83	-23 11.3	1.794	2.773	6.8	20.1	5 31	17 52.76	-26 14.8	1.792	2.771	6.8	18.9
6 10	17 44.46	-23 26.9	1.783	2.793	2.6	19.9	6 10	17 44.17	-26 18.6	1.755	2.765	2.8	18.6
6 20	17 34.61	-23 39.9	1.799	2.813	1.7	19.8	6 20	17 34.84	-26 17.4	1.745	2.759	2.0	18.5
6 30	17 25.34	-23 50.2	1.842	2.832	5.8	20.1	6 30	17 25.87	-26 11.4	1.762	2.753	6.0	18.8
7 10	17 17.61	-23 58.6	1.911	2.852	9.5	20.4	7 10	17 18.30	-26 2.2	1.805	2.747	9.8	19.0
7 20	17 12.07	-24 6.1	2.004	2.871	12.7	20.7	7 20	17 12.87	-25 51.8	1.870	2.741	13.2	19.2
501784	2014 <i>VO</i> ₁₇		6 16.0 146°47	2.7/15.8	17		302355	2002 <i>BB</i> ₁₃		6 16.0 130°49	1.7/16.1	18	
5 11	18 8.35	-17 3.1	1.928	2.763	14.1	22.3	5 11	18 5.28	-27 43.4	2.652	3.479	10.9	21.3
5 21	18 2.40	-16 39.7	1.858	2.774	10.9	22.1	5 21	17 59.76	-28 12.5	2.578	3.490	8.4	21.2
5 31	17 54.24	-16 19.3	1.810	2.784	7.2	21.9	5 31	17 52.46	-28 39.1	2.528	3.501	5.5	21.0
6 10	17 44.63	-16 2.6	1.788	2.793	3.7	21.7	6 10	17 43.97	-29 1.3	2.505	3.511	2.6	20.8
6 20	17 34.49	-15 50.5	1.793	2.802	3.3	21.7	6 20	17 35.00	-29 17.6	2.510	3.521	2.1	20.8
6 30	17 24.87	-15 43.8	1.827	2.810	6.6	22.0	6 30	17 26.36	-29 27.7	2.545	3.530	4.8	21.0
7 10	17 16.71	-15 43.2	1.886	2.817	10.2	22.2	7 10	17 18.82	-29 32.4	2.607	3.539	7.7	21.2
7 20	17 10.65	-15 48.8	1.968	2.823	13.4	22.4	7 20	17 12.93	-29 33.2	2.694	3.548	10.2	21.4
258920	2002 <i>RB</i> ₃₈		6 16.0 257°10	2.6/16.2	17		32260	2000 <i>OG</i> ₅₇		6 16.0 276°20	4.6/16.6	18	
5 11	18 9.21	-29 14.3	1.795	2.634	14.8	20.8	5 11	18 6.76	-36 20.0	2.181	3.003	13.1	18.9
5 21	18 3.90	-29 34.8	1.698	2.617	11.6	20.5	5 21	18 1.58	-36 41.4	2.091	2.993	10.5	18.8
5 31	17 55.72	-29 50.9	1.624	2.598	7.8	20.3	5 31	17 53.97	-36 53.8	2.023	2.982	7.7	18.6
6 10	17 45.37	-29 59.5	1.574	2.580	3.9	20.0	6 10	17 44.63	-36 53.8	1.981	2.972	5.2	18.4
6 20	17 33.92	-29 58.0	1.550	2.560	3.2	19.9	6 20	17 34.54	-36 39.5	1.965	2.961	4.7	18.3
6 30	17 22.72	-29 46.2	1.553	2.541	7.0	20.1	6 30	17 24.83	-36 11.3	1.976	2.951	6.8	18.4
7 10	17 13.12	-29 26.3	1.582	2.520	11.2	20.3	7 10	17 16.59	-35 31.9	2.012	2.940	9.8	18.6
7 20	17 6.09	-29 2.0	1.632	2.500	15.0	20.5	7 20	17 10.57	-34 45.7	2.072	2.929	12.7	18.8
23446	1987 <i>SJ</i> ₂		6 16.0 325°16	2.1/15.9	18		297731	2001 <i>WK</i> ₅₅		6 16.0 268°89	0.8/15.9	18	
5 11	18 1.99	-19 13.0	1.260	2.133	17.8	17.3	5 11	18 3.34	-21 45.3	2.184	3.026	12.5	20.7
5 21	17 59.00	-19 4.7	1.178	2.117	13.8	17.0	5 21	17 58.65	-21 32.3	2.094	3.016	9.5	20.5
5 31	17 52.87	-19 0.0	1.116	2.101	9.1	16.7	5 31	17 51.94	-21 18.7	2.027	3.006	6.1	20.3
6 10	17 44.34	-18 59.4	1.076	2.086	4.0	16.3	6 10	17 43.82	-21 4.7	1.986	2.996	2.5	20.0
6 20	17 34.61	-19 2.9	1.058	2.071	3.2	16.2	6 20	17 35.08	-20 50.4	1.973	2.986	1.8	20.0
6 30	17 25.22	-19 11.0	1.064	2.058	8.3	16.5	6 30	17 26.64	-20 36.7	1.987	2.976	5.5	20.2
7 10	17 17.70	-19 24.1	1.091	2.045	13.6	16.7	7 10	17 19.38	-20 24.8	2.027	2.966	9.1	20.4
7 20	17 13.09	-19 42.3	1.138	2.033	18.2	17.0	7 20	17 13.94	-20 16.0	2.091	2.956	12.3	20.6
291559	2006 <i>FH</i> ₅		6 16.0 86°76	0.8/16.0	17		175745	1998 <i>QM</i> ₄₉		6 16.0 298°84	5.1/16.3	18	
5 11	18 8.68	-20 55.9	1.384	2.242	17.4	20.7	5 11	18 7.68	-33 13.9	1.483	2.333	16.9	19.1
5 21	18 3.52	-21 3.5	1.323	2.253	13.3	20.4	5 21	18 3.40	-33 53.5	1.397	2.317	13.4	18.8
5 31	17 55.36	-21 13.4	1.283	2.264	8.5	20.2	5 31	17 55.75	-34 26.0	1.331	2.302	9.6	18.6
6 10	17 45.15	-21 24.3	1.265	2.275	3.3	19.9	6 10	17 45.49	-34 45.9	1.288	2.287	6.0	18.3
6 20	17 34.17	-21 34.9	1.272	2.286	2.3	19.9	6 20	17 33.93	-34 48.9	1.269	2.272	5.5	18.2
6 30	17 23.92	-21 45.1	1.305	2.297	7.4	20.2	6 30	17 22.75	-34 34.3	1.274	2.257	8.7	18.4
7 10	17 15.69	-21 55.4	1.361	2.308	12.0	20.5	7 10	17 13.58	-34 5.2	1.302	2.243	13.0	18.6
7 20	17 10.30	-22 7.1	1.439	2.318	16.0	20.8	7 20	17 7.53	-33 27.3	1.351	2.229	17.0	18.8
89838	2002 <i>CJ</i> ₃₁		6 16.0 358°86	8.4/17.2	18		245598	2005 <i>VW</i> ₈₂		6 16.0 239°96	1.4/15.9	18	
5 11	18 8.92	-45 32.7	1.999	2.799	15.0	19.0	5 11	18 2.26	-18 50.3	2.615	3.448	10.9	21.4
5 21	18 3.74	-46 20.3	1.926	2.798	12.7	18.8	5 21	17 57.49	-18 43.1	2.522	3.438	8.4	21.2
5 31	17 55.56	-46 52.7	1.873	2.797	10.5	18.7	5 31	17 51.05	-18 37.5	2.452	3.428	5.5	21.0
6 10	17 45.25	-47 4.5	1.843	2.796	8.8	18.6	6 10	17 43.46	-18 33.6	2.410	3.418	2.5	20.7
6 20	17 34.10	-46 52.2	1.836	2.796	8.4	18.5	6 20	17 35.34	-18 31.5	2.396	3.407	2.0	20.7
6 30	17 23.59	-46 16.2	1.855	2.797	9.6	18.6	6 30	17 27.44	-18 31.7	2.410	3.396	5.0	20.9
7 10	17 15.05	-45 20.7	1.896	2.797	11.7	18.7	7 10	17 20.48	-18 34.4	2.452	3.385	8.0	21.1
7 20	17 9.33	-44 12.2	1.960	2.798	14.1	18.9	7 20	17 15.01	-18 40.2	2.518	3.374	10.8	21.2
423910	2006 <i>SN</i> ₃₀₄		6 16.0 215°10	1.7/15.9	17		380167	2000 <i>Q</i>					

EPHEMERIDES

6 16.0

6 16.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
504771	2009 WQ ₂₀₈	6 16.0 231°79 1°4/16.1 17					75406	1999 XR ₁₀₃	6 16.1 261°29 0°9/16.1 18				
5 11	18 7.14	-26 14.4	1.882	2.725	14.1	22.1	5 11	18 8.15	-25 12.6	1.749	2.594	14.9	20.2
5 21	18 1.98	-26 32.6	1.797	2.719	10.9	21.8	5 21	18 3.08	-25 20.4	1.652	2.576	11.5	20.0
5 31	17 54.29	-26 48.6	1.735	2.713	7.1	21.6	5 31	17 55.21	-25 26.3	1.578	2.557	7.5	19.7
6 10	17 44.79	-27 0.4	1.697	2.706	3.0	21.3	6 10	17 45.25	-25 28.4	1.528	2.537	3.1	19.4
6 20	17 34.46	-27 6.2	1.687	2.699	2.2	21.2	6 20	17 34.20	-25 25.4	1.504	2.518	2.1	19.2
6 30	17 24.49	-27 5.9	1.703	2.692	6.3	21.5	6 30	17 23.39	-25 17.2	1.507	2.498	6.8	19.5
7 10	17 16.01	-27 0.8	1.745	2.685	10.2	21.7	7 10	17 14.11	-25 5.7	1.535	2.477	11.2	19.7
7 20	17 9.83	-26 53.3	1.809	2.678	13.8	21.9	7 20	17 7.32	-24 53.4	1.585	2.456	15.2	19.9
140141	2001 SE ₁₅₅	6 16.0 240°56 0°6/16.1 18					344692	2003 SL ₃₃₅	6 16.1 223°12 0°9/16.0 18				
5 11	18 4.32	-25 8.8	2.292	3.130	12.1	20.2	5 11	18 4.96	-20 8.7	1.996	2.839	13.4	21.4
5 21	17 59.35	-25 12.3	2.203	3.123	9.3	20.0	5 21	18 0.05	-20 17.6	1.914	2.836	10.3	21.2
5 31	17 52.38	-25 14.0	2.137	3.115	6.0	19.8	5 31	17 52.93	-20 28.8	1.855	2.833	6.6	21.0
6 10	17 44.00	-25 12.6	2.098	3.108	2.4	19.5	6 10	17 44.25	-20 41.5	1.821	2.830	2.7	20.7
6 20	17 35.00	-25 7.7	2.086	3.100	1.6	19.5	6 20	17 34.90	-20 54.9	1.814	2.827	1.9	20.7
6 30	17 26.31	-24 59.6	2.102	3.092	5.2	19.7	6 30	17 25.87	-21 8.7	1.834	2.824	5.9	20.9
7 10	17 18.78	-24 49.4	2.145	3.084	8.7	19.9	7 10	17 18.15	-21 23.1	1.881	2.821	9.6	21.2
7 20	17 13.08	-24 38.9	2.211	3.075	11.8	20.1	7 20	17 12.44	-21 38.5	1.950	2.817	13.0	21.4
394011	2005 VW ₅₅	6 16.1 350°12 1°9/15.7 18					109806	2001 RW ₁₀₁	6 16.1 322°43 4°4/15.9 18				
5 11	18 2.20	-20 1.2	2.060	2.906	12.9	20.1	5 11	18 1.18	-12 41.9	1.693	2.543	15.1	19.5
5 21	17 57.77	-19 27.0	1.981	2.904	9.9	19.9	5 21	17 57.57	-12 28.3	1.604	2.526	11.9	19.3
5 31	17 51.35	-18 52.6	1.924	2.902	6.4	19.7	5 31	17 51.56	-12 22.9	1.537	2.510	8.4	19.0
6 10	17 43.59	-18 19.1	1.893	2.901	3.0	19.5	6 10	17 43.80	-12 27.5	1.493	2.494	5.2	18.8
6 20	17 35.30	-17 47.9	1.889	2.900	2.5	19.5	6 20	17 35.17	-12 42.7	1.475	2.478	4.8	18.7
6 30	17 27.41	-17 20.7	1.912	2.899	6.0	19.7	6 30	17 26.78	-13 8.6	1.481	2.463	7.9	18.9
7 10	17 20.77	-16 59.0	1.961	2.898	9.5	19.9	7 10	17 19.71	-13 44.1	1.511	2.449	11.7	19.1
7 20	17 15.98	-16 43.8	2.032	2.897	12.6	20.1	7 20	17 14.79	-14 27.5	1.563	2.436	15.3	19.2
334397	2002 CO ₂₀₀	6 16.1 250°59 7°8/16.9 18					177676	2005 EG ₁₃₀	6 16.1 285°36 3°1/16.4 18				
5 11	18 12.67	-43 29.6	1.952	2.754	15.2	21.4	5 11	18 8.32	-30 33.0	1.443	2.297	17.1	20.3
5 21	18 6.73	-44 11.8	1.866	2.744	12.8	21.2	5 21	18 3.82	-30 39.0	1.355	2.281	13.4	20.0
5 31	17 57.60	-44 40.0	1.801	2.734	10.3	21.0	5 31	17 55.96	-30 37.0	1.288	2.265	9.1	19.7
6 10	17 46.13	-44 48.1	1.758	2.723	8.3	20.9	6 10	17 45.59	-30 23.7	1.243	2.249	4.6	19.4
6 20	17 33.63	-44 32.2	1.741	2.712	7.9	20.8	6 20	17 33.99	-29 57.1	1.222	2.233	3.6	19.3
6 30	17 21.67	-43 52.1	1.749	2.701	9.4	20.9	6 30	17 22.83	-29 18.3	1.227	2.217	8.0	19.5
7 10	17 11.72	-42 52.5	1.781	2.689	12.0	21.0	7 10	17 13.69	-28 31.7	1.254	2.201	12.8	19.8
7 20	17 4.74	-41 40.1	1.835	2.678	14.7	21.2	7 20	17 7.63	-27 43.1	1.302	2.185	17.1	20.0
59826	1999 RU ₂₉	6 16.1 315°26 23°9/ 9.6 18					142141	2002 RT ₁₇	6 16.1 261°00 2°2/15.9 18				
5 11	18 2.51	+16 10.7	1.059	1.843	26.3	18.9	5 11	18 7.03	-18 20.4	1.815	2.658	14.6	21.0
5 21	17 59.55	+19 6.7	1.014	1.835	25.1	18.8	5 21	18 2.01	-18 8.8	1.716	2.637	11.3	20.8
5 31	17 53.26	+21 26.4	0.983	1.827	24.2	18.7	5 31	17 54.43	-17 59.8	1.639	2.616	7.5	20.5
6 10	17 44.52	+22 55.5	0.964	1.819	23.9	18.6	6 10	17 44.93	-17 53.7	1.587	2.595	3.5	20.2
6 20	17 34.67	+23 24.3	0.959	1.811	24.3	18.6	6 20	17 34.42	-17 50.7	1.561	2.572	2.9	20.1
6 30	17 25.33	+22 49.6	0.967	1.804	25.2	18.7	6 30	17 24.10	-17 51.3	1.562	2.550	7.0	20.3
7 10	17 18.06	+21 17.1	0.987	1.798	26.6	18.7	7 10	17 15.12	-17 56.4	1.589	2.526	11.3	20.5
7 20	17 13.88	+18 57.5	1.018	1.792	28.2	18.9	7 20	17 8.38	-18 6.5	1.638	2.503	15.1	20.7
496147	2010 SC ₁₈	6 16.1 239°45 3°8/16.4 18					438995	2010 TL ₂₅	6 16.1 265°67 6°0/16.9 18				
5 11	18 5.55	-34 50.7	2.517	3.337	11.7	22.0	5 11	18 8.85	-42 41.6	2.566	3.360	12.2	21.2
5 21	18 0.32	-35 18.1	2.429	3.330	9.3	21.9	5 21	18 3.05	-43 6.7	2.469	3.343	10.2	21.0
5 31	17 53.02	-35 38.8	2.364	3.324	6.6	21.7	5 31	17 54.87	-43 20.2	2.394	3.327	8.1	20.9
6 10	17 44.26	-35 50.0	2.325	3.318	4.4	21.5	6 10	17 45.01	-43 18.5	2.343	3.310	6.4	20.7
6 20	17 34.87	-35 49.8	2.313	3.311	4.0	21.5	6 20	17 34.41	-42 59.2	2.319	3.292	6.1	20.7
6 30	17 25.79	-35 38.2	2.330	3.304	6.0	21.6	6 30	17 24.18	-42 22.5	2.322	3.275	7.4	20.7
7 10	17 17.92	-35 17.1	2.372	3.298	8.6	21.8	7 10	17 15.37	-41 31.2	2.351	3.258	9.5	20.8
7 20	17 11.93	-34 49.5	2.439	3.291	11.2	21.9	7 20	17 8.71	-40 30.1	2.403	3.240	11.9	21.0
299909	2006 SZ ₃₉₁	6 16.1 215°79 4°8/15.2 18					347746	2002 AB ₁₀₃	6 16.1 219°54 1°8/16.2 18				
5 11	18 1.74	- 7 21.3	2.879	3.687	10.7	21.5	5 11	18 7.90	-27 57.8	2.097	2.931	13.2	21.4
5 21	17 56.87	- 6 44.6	2.789	3.679	8.7	21.3	5 21	18 2.35	-28 12.4	2.008	2.924	10.2	21.2
5 31	17 50.55	- 6 14.4	2.723	3.670	6.6	21.2	5 31	17 54.45	-28 23.4	1.941	2.916	6.7	21.0
6 10	17 43.26	- 5 52.6	2.684	3.660	5.1	21.1	6 10	17 44.86	-28 28.7	1.901	2.908	3.1	20.7
6 20	17 35.54	- 5 40.6	2.672	3.650	5.0	21.1	6 20	17 34.51	-28 26.8	1.888	2.899	2.4	20.7
6 30	17 28.02	- 5 39.3	2.688	3.640	6.5	21.1	6 30	17 24.50	-28 17.8	1.903	2.890	5.9	20.9
7 10	17 21.31	- 5 48.3	2.731	3.629	8.7	21.3	7 10	17 15.85	-28 3.5	1.944	2.880	9.6	21.1
7 20	17 15.88	- 6 6.9	2.797	3.618	10.8	21.4	7 20	17 9.35	-27 46.4	2.008	2.870	12.9	21.3
29971	1999 KT	6 16.1 330°11 7°6/15.5 18					128420	2004 MS	6 16.1 315°92 2°4/15.6 18				
5 11	18 0.08	-10 44.2	1.130	2.004	19.4	18.4	5 11	17 58.59	-16 20.1	2.732	3.568	10.4	19.4
5 21	17 57.67	- 9 53.1	1.055	1.987	15.7	18.1	5 21	17 54.67	-15 56.3	2.636	3.553	8.1	19.2
5 31	17 52.09	- 9 12.6	0.998	1.972	11.6	17.8	5 31	17 49.25	-15 34.7	2.565	3.538	5.4	19.0
6 10	17 44.11	- 8 47.9	0.961	1.957	8.2	17.5	6 10	17 42.79	-15 16.3	2.520	3.523	3.0	18.8
6 20	17 34.93	- 8 43.1	0.945	1.944	8.0	17.5	6 20	17 35.88	-15 1.9	2.503	3.509	2.8	18.8
6 30	17 26.12	- 9 0.1	0.951	1.931	11.4	17.6	6 30	17 29.16	-14 52.3	2.513	3.495	5.1	18.9
7 10	17 19.21	- 9 37.5	0.976	1.920	15.9	17.8	7 10	17 23.27	-14 48.0	2.551	3.481	7.9	19.1
7 20	17 15.25	-10 31.6	1.019	1.910	20.2	18.1	7 20	17 18.72	-14 49.3	2.612	3.467	10.5	19.3
435783	2008 UX ₃₁₄	6 16.1 261°50 3°6/16.3 17					32962	1996 PH ₁	6 16.1 342°08 1°5/15.9 18				
5 11	18 7.18	-31 51.0	1.885	2.723	14.3	21.7	5 11	18 4.53	-19 49.1	1.557	2.414	15.8	19.0
5 21	18 2.10	-32 18.7	1.805	2.721	11.2	21.5	5 21	18 0.26	-19 46.7	1.482	2.411	12.2	18.8

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
305965	2009 <i>HJ</i> ₅₇		6 16.1 39°24	6°3/15.4	18		422017	2014 <i>QN</i> ₃₃₄		6 16.1 277°46	1°0/16.0	17	
5 11	18 1.50	- 8 14.9	1.884	2.718	14.5	20.5	5 11	18 7.44	-20 40.5	1.403	2.262	17.2	21.7
5 21	17 57.24	- 7 24.2	1.821	2.726	11.6	20.3	5 21	18 3.10	-20 45.1	1.313	2.243	13.3	21.4
5 31	17 51.00	- 6 42.9	1.780	2.736	8.8	20.1	5 31	17 55.55	-20 52.6	1.242	2.224	8.7	21.1
6 10	17 43.47	- 6 14.2	1.762	2.745	6.7	20.0	6 10	17 45.50	-21 2.0	1.195	2.205	3.5	20.7
6 20	17 35.47	- 6 0.1	1.771	2.755	6.6	20.0	6 20	17 34.11	-21 12.2	1.172	2.186	2.5	20.6
6 30	17 27.94	- 6 1.5	1.804	2.765	8.5	20.2	6 30	17 22.93	-21 22.7	1.174	2.166	7.9	20.9
7 10	17 21.69	- 6 17.5	1.862	2.775	11.3	20.4	7 10	17 13.53	-21 34.3	1.199	2.146	13.2	21.1
7 20	17 17.31	- 6 46.0	1.941	2.786	13.9	20.6	7 20	17 7.02	-21 48.1	1.244	2.127	17.8	21.3
290820	2005 <i>VY</i> ₁₁₆		6 16.1 236°82	8°0/15.8	18		480557	2015 <i>MD</i> ₆₃		6 16.1 275°15	1°7/16.5	18	
5 11	18 13.16	-49 15.0	2.823	3.579	12.1	21.1	5 11	18 5.64	-30 19.9	2.289	3.121	12.3	21.4
5 21	18 6.66	-50 27.5	2.734	3.567	10.6	20.9	5 21	18 0.43	-30 1.1	2.193	3.107	9.5	21.2
5 31	17 57.41	-51 28.1	2.668	3.555	9.1	20.8	5 31	17 53.12	-29 35.2	2.120	3.093	6.3	21.0
6 10	17 46.08	-52 11.5	2.625	3.542	8.2	20.7	6 10	17 44.34	-29 1.0	2.073	3.079	3.0	20.7
6 20	17 33.67	-52 33.7	2.609	3.529	8.1	20.7	6 20	17 34.95	-28 18.7	2.054	3.065	2.2	20.6
6 30	17 21.46	-52 33.3	2.617	3.516	9.0	20.7	6 30	17 25.93	-27 30.1	2.063	3.051	5.4	20.8
7 10	17 10.72	-52 12.5	2.650	3.502	10.4	20.8	7 10	17 18.18	-26 38.1	2.099	3.037	8.9	21.0
7 20	17 2.38	-51 35.7	2.705	3.488	12.1	20.9	7 20	17 12.37	-25 46.4	2.159	3.023	12.0	21.2
428350	2007 <i>MA</i> ₁₇		6 16.1 9°81	8°2/15.4	17		131634	2001 <i>XN</i> ₆₈		6 16.1 60°84	13°3/22.3	18	
5 11	17 59.40	- 8 38.0	1.247	2.112	18.5	20.1	5 11	18 34.04	-55 46.1	1.294	2.061	23.2	18.4
5 21	17 56.56	- 7 34.6	1.191	2.114	15.0	19.8	5 21	18 23.86	-56 3.4	1.258	2.094	20.2	18.3
5 31	17 50.99	- 6 44.0	1.152	2.118	11.4	19.6	5 31	18 8.30	-55 46.0	1.237	2.127	17.2	18.2
6 10	17 43.56	- 6 11.3	1.135	2.123	8.6	19.5	6 10	17 49.89	-54 44.3	1.234	2.161	14.6	18.1
6 20	17 35.42	- 6 0.1	1.140	2.129	8.5	19.5	6 20	17 31.78	-52 56.9	1.253	2.194	13.3	18.2
6 30	17 27.89	- 6 11.3	1.167	2.137	11.0	19.7	6 30	17 16.77	-50 32.5	1.296	2.227	13.8	18.3
7 10	17 22.15	- 6 43.0	1.214	2.146	14.5	19.9	7 10	17 6.43	-47 47.4	1.361	2.260	15.6	18.5
7 20	17 18.95	- 7 30.8	1.280	2.156	17.9	20.1	7 20	17 1.01	-44 57.7	1.447	2.292	17.8	18.7
338570	2003 <i>SD</i> ₈₆		6 16.1 107°90	4°0/16.9	18		16603	1993 <i>FG</i> ₆		6 16.1 290°50	0°8/16.1	18	
5 11	18 8.94	-35 23.8	1.915	2.744	14.5	20.1	5 11	18 4.04	-25 16.7	2.110	2.952	12.8	18.5
5 21	18 3.30	-35 21.3	1.838	2.746	11.5	19.9	5 21	17 59.50	-25 26.2	2.009	2.930	9.9	18.3
5 31	17 55.05	-35 7.8	1.783	2.747	8.1	19.7	5 31	17 52.71	-25 34.2	1.930	2.909	6.4	18.0
6 10	17 45.06	-34 40.6	1.752	2.749	5.0	19.5	6 10	17 44.26	-25 39.2	1.878	2.887	2.6	17.8
6 20	17 34.46	-33 59.1	1.748	2.751	4.2	19.5	6 20	17 34.98	-25 40.3	1.852	2.866	1.8	17.6
6 30	17 24.50	-33 5.1	1.770	2.753	6.8	19.6	6 30	17 25.87	-25 37.2	1.854	2.844	5.7	17.9
7 10	17 16.30	-32 3.4	1.818	2.754	10.2	19.9	7 10	17 17.96	-25 31.2	1.882	2.823	9.6	18.1
7 20	17 10.57	-30 59.0	1.890	2.756	13.4	20.1	7 20	17 12.02	-25 24.0	1.932	2.801	13.0	18.2
226708	2004 <i>OH</i> ₇		6 16.1 344°95	3°7/16.1	17		175422	2006 <i>PY</i> ₂₃		6 16.1 304°33	1°5/16.1	17	
5 11	18 3.49	-14 24.9	1.484	2.341	16.5	19.8	5 11	18 5.65	-25 26.9	1.362	2.226	17.3	20.2
5 21	17 59.53	-14 20.1	1.410	2.337	12.9	19.5	5 21	18 1.88	-25 46.9	1.276	2.209	13.4	19.9
5 31	17 52.89	-14 23.6	1.356	2.333	8.8	19.3	5 31	17 54.83	-26 6.1	1.209	2.192	8.8	19.6
6 10	17 44.32	-14 36.3	1.326	2.330	4.8	19.1	6 10	17 45.23	-26 21.7	1.166	2.176	3.7	19.3
6 20	17 34.90	-14 58.1	1.319	2.327	4.2	19.0	6 20	17 34.32	-26 31.1	1.146	2.159	2.6	19.1
6 30	17 25.90	-15 28.3	1.338	2.325	7.9	19.2	6 30	17 23.70	-26 33.5	1.150	2.143	7.9	19.4
7 10	17 18.52	-16 5.6	1.380	2.323	12.1	19.5	7 10	17 14.99	-26 30.7	1.177	2.128	13.0	19.7
7 20	17 13.62	-16 48.3	1.443	2.322	16.0	19.7	7 20	17 9.30	-26 25.4	1.224	2.113	17.6	19.9
745	Mauritia		6 16.1 106°16	3°9/16.1	18		115579	2003 <i>UN</i> ₉₀		6 16.1 272°91	3°1/15.9	18	
5 11	18 1.57	-10 19.7	2.470	3.294	11.8	15.8	5 11	18 3.81	-14 54.3	1.908	2.750	14.0	19.6
5 21	17 56.94	-10 14.9	2.393	3.298	9.3	15.6	5 21	17 59.22	-14 45.4	1.827	2.746	10.9	19.4
5 31	17 50.69	-10 17.6	2.340	3.301	6.6	15.4	5 31	17 52.44	-14 42.3	1.768	2.741	7.4	19.2
6 10	17 43.35	-10 28.6	2.312	3.305	4.4	15.3	6 10	17 44.12	-14 45.6	1.734	2.737	4.0	19.0
6 20	17 35.56	-10 48.1	2.312	3.309	4.1	15.3	6 20	17 35.13	-14 55.6	1.726	2.733	3.6	18.9
6 30	17 28.06	-11 15.6	2.339	3.312	6.1	15.4	6 30	17 26.46	-15 12.2	1.745	2.729	6.7	19.1
7 10	17 21.53	-11 50.1	2.393	3.316	8.7	15.6	7 10	17 19.08	-15 35.0	1.789	2.725	10.3	19.3
7 20	17 16.50	-12 30.2	2.471	3.319	11.2	15.8	7 20	17 13.70	-16 3.2	1.856	2.720	13.7	19.5
257705	1999 <i>XY</i> ₅₀		6 16.1 177°17	0°3/16.1	17		75639	2000 <i>AV</i> ₅₄		6 16.1 189°10	1°7/16.1	17	
5 11	18 9.00	-23 25.6	1.936	2.774	14.0	21.8	5 11	18 7.63	-17 59.2	1.832	2.673	14.5	20.4
5 21	18 3.19	-23 37.1	1.857	2.776	10.7	21.6	5 21	18 2.24	-18 7.2	1.753	2.673	11.2	20.1
5 31	17 54.97	-23 48.1	1.800	2.778	6.9	21.4	5 31	17 54.43	-18 19.5	1.695	2.672	7.3	19.9
6 10	17 45.07	-23 57.3	1.769	2.779	2.7	21.1	6 10	17 44.91	-18 35.6	1.662	2.670	3.2	19.7
6 20	17 34.45	-24 3.3	1.765	2.779	1.7	21.1	6 20	17 34.62	-18 54.4	1.657	2.669	2.5	19.6
6 30	17 24.25	-24 6.1	1.789	2.779	6.0	21.4	6 30	17 24.70	-19 15.5	1.678	2.667	6.5	19.8
7 10	17 15.53	-24 6.8	1.840	2.778	9.9	21.6	7 10	17 16.23	-19 38.6	1.726	2.664	10.5	20.1
7 20	17 9.04	-24 7.0	1.913	2.777	13.3	21.8	7 20	17 9.98	-20 3.5	1.796	2.661	14.0	20.3
512876	2016 <i>WT</i> ₁₃		6 16.1 259°04	2°4/16.5	18		432805	2011 <i>GV</i> ₃₆		6 16.1 60°14	10°8/17.0	17	
5 11	18 4.69	-31 42.3	2.449	3.277	11.7	20.8	5 11	18 15.33	-47 26.2	1.660	2.458	17.6	20.7
5 21	17 59.58	-31 40.3	2.359	3.270	9.1	20.6	5 21	18 9.43	-48 52.7	1.607	2.472	15.2	20.5
5 31	17 52.50	-31 31.6	2.294	3.264	6.2	20.5	5 31	17 59.62	-50 0.8	1.573	2.486	12.8	20.4
6 10	17 44.08	-31 15.0	2.254	3.257	3.3	20.3	6 10	17 47.01	-50 42.1	1.560	2.500	11.2	20.3
6 20	17 35.11	-30 49.8	2.242	3.250	2.7	20.2	6 20	17 33.31	-50 51.1	1.570	2.514	10.8	20.4
6 30	17 26.51	-30 17.1	2.258	3.244	5.3	20.4	6 30	17 20.55	-50 28.1	1.603	2.529	12.0	20.5
7 10	17 19.12	-29 39.2	2.301	3.237	8.4	20.5	7 10	17 10.50	-49 39.0	1.658	2.544	13.9	20.6
7 20	17 13.55	-28 59.1	2.369	3.230	11.2	20.7	7 20	17 4.15	-48 32.5	1.732	2.558	16.2	20.8
71328	2000 <i>AH</i>												

EPHEMERIDES

6 16.1

6 16.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
504797	2010 AN ₈₀		6 16.1 218° 32'	3° 9'	15.8	18	179406	2001 YB ₁₄₉		6 16.1 226° 26'	3° 3'	16.5	18
5 11	18 5.37	-11 34.9	2.372	3.193	12.3	22.2	5 11	18 6.21	-33 39.6	2.406	3.229	12.0	20.6
5 21	18 0.01	-11 20.1	2.279	3.183	9.7	22.0	5 21	18 0.88	-33 55.3	2.319	3.224	9.5	20.4
5 31	17 52.78	-11 11.6	2.210	3.172	6.9	21.8	5 31	17 53.43	-34 4.1	2.255	3.219	6.7	20.2
6 10	17 44.24	-11 10.6	2.166	3.161	4.4	21.7	6 10	17 44.52	-34 3.5	2.216	3.214	4.1	20.0
6 20	17 35.09	-11 17.7	2.151	3.150	4.2	21.6	6 20	17 35.00	-33 52.2	2.205	3.208	3.6	20.0
6 30	17 26.15	-11 33.1	2.164	3.137	6.5	21.8	6 30	17 25.83	-33 30.6	2.222	3.202	5.8	20.1
7 10	17 18.22	-11 56.2	2.204	3.124	9.4	21.9	7 10	17 17.94	-33 0.9	2.266	3.196	8.7	20.3
7 20	17 11.94	-12 26.1	2.267	3.110	12.3	22.1	7 20	17 11.99	-32 26.4	2.333	3.190	11.5	20.5
294812	2008 CK ₁₀₈		6 16.1 127° 45'	0° 1'	16.1	17	497672	2006 RD ₁₀₇		6 16.1 176° 14'	2° 7'	15.8	17
5 11	18 9.78	-24 19.6	1.817	2.658	14.7	21.4	5 11	18 7.00	-17 31.8	1.742	2.586	15.0	22.1
5 21	18 3.74	-24 9.4	1.750	2.671	11.2	21.2	5 21	18 1.79	-17 7.7	1.666	2.588	11.6	21.9
5 31	17 55.25	-23 56.8	1.706	2.684	7.1	21.0	5 31	17 54.15	-16 46.3	1.612	2.589	7.7	21.7
6 10	17 45.17	-23 40.9	1.686	2.696	2.7	20.8	6 10	17 44.83	-16 28.8	1.583	2.589	3.8	21.4
6 20	17 34.55	-23 21.9	1.694	2.708	1.8	20.7	6 20	17 34.82	-16 16.1	1.580	2.590	3.4	21.4
6 30	17 24.56	-23 0.9	1.729	2.719	6.1	21.0	6 30	17 25.28	-16 9.0	1.604	2.590	7.0	21.6
7 10	17 16.24	-22 40.3	1.790	2.730	10.1	21.3	7 10	17 17.27	-16 8.5	1.653	2.589	11.0	21.8
7 20	17 10.26	-22 22.1	1.874	2.740	13.5	21.5	7 20	17 11.52	-16 14.7	1.724	2.589	14.5	22.1
478556	2012 TJ ₄₀		6 16.1 290° 06'	2° 9'	16.4	16	338631	2003 SF ₂₇₈		6 16.1 230° 28'	5° 0'	16.6	18
5 11	18 6.39	-30 41.8	1.829	2.671	14.5	21.7	5 11	18 9.67	-37 30.1	2.302	3.114	12.9	21.1
5 21	18 1.60	-30 54.1	1.744	2.663	11.3	21.4	5 21	18 3.80	-38 1.0	2.211	3.104	10.4	20.9
5 31	17 54.17	-31 0.1	1.680	2.654	7.7	21.2	5 31	17 55.47	-38 22.9	2.142	3.094	7.7	20.8
6 10	17 44.85	-30 57.2	1.641	2.646	4.0	21.0	6 10	17 45.36	-38 32.1	2.098	3.083	5.5	20.6
6 20	17 34.70	-30 43.8	1.628	2.637	3.3	20.9	6 20	17 34.45	-38 26.0	2.081	3.072	5.1	20.6
6 30	17 24.96	-30 20.4	1.641	2.629	6.7	21.1	6 30	17 23.88	-38 4.6	2.091	3.060	7.0	20.6
7 10	17 16.82	-29 49.9	1.680	2.620	10.5	21.3	7 10	17 14.77	-37 30.4	2.128	3.048	9.7	20.8
7 20	17 11.10	-29 16.0	1.740	2.612	14.0	21.5	7 20	17 7.89	-36 47.8	2.188	3.035	12.5	21.0
494221	2016 NZ ₆		6 16.1 306° 36'	2° 5'	16.4	16	279417	2010 GA ₂₉		6 16.1 26° 16'	4° 2'	15.7	17
5 11	18 5.63	-29 44.4	1.692	2.541	15.2	21.5	5 11	18 4.94	-17 17.4	1.114	1.989	19.5	19.9
5 21	18 1.22	-29 48.9	1.605	2.528	11.8	21.3	5 21	18 1.22	-16 33.4	1.056	1.994	15.1	19.7
5 31	17 54.04	-29 47.0	1.539	2.516	7.9	21.0	5 31	17 54.20	-15 53.4	1.017	1.999	10.1	19.4
6 10	17 44.83	-29 36.4	1.497	2.504	3.9	20.7	6 10	17 44.92	-15 20.4	0.998	2.005	5.4	19.1
6 20	17 34.71	-29 15.9	1.481	2.492	3.0	20.6	6 20	17 34.79	-14 56.9	1.003	2.012	4.9	19.1
6 30	17 25.00	-28 46.3	1.490	2.480	6.9	20.9	6 30	17 25.45	-14 45.0	1.029	2.019	9.3	19.4
7 10	17 16.96	-28 10.8	1.524	2.469	11.1	21.1	7 10	17 18.32	-14 45.3	1.077	2.026	14.2	19.7
7 20	17 11.47	-27 33.5	1.579	2.458	14.9	21.3	7 20	17 14.27	-14 57.2	1.144	2.035	18.4	20.0
102737	1999 VW ₁₀₅		6 16.1 355° 79'	1° 9'	16.0	17	118902	2000 UU ₆₇		6 16.1 209° 39'	1° 8'	15.7	18
5 11	18 3.65	-24 38.4	1.168	2.045	18.7	19.1	5 11	18 3.13	-19 16.7	2.492	3.326	11.4	20.2
5 21	18 0.59	-25 21.6	1.101	2.041	14.4	18.9	5 21	17 58.19	-18 44.2	2.406	3.323	8.7	20.0
5 31	17 54.07	-26 6.5	1.052	2.038	9.4	18.6	5 31	17 51.54	-18 11.7	2.345	3.320	5.7	19.8
6 10	17 44.95	-26 49.1	1.025	2.035	4.0	18.3	6 10	17 43.76	-17 40.3	2.310	3.317	2.7	19.6
6 20	17 34.63	-27 25.1	1.021	2.034	3.0	18.2	6 20	17 35.52	-17 11.0	2.303	3.313	2.4	19.6
6 30	17 24.87	-27 52.3	1.040	2.034	8.3	18.5	6 30	17 27.60	-16 45.2	2.325	3.309	5.3	19.8
7 10	17 17.29	-28 11.2	1.080	2.035	13.5	18.8	7 10	17 20.72	-16 24.2	2.374	3.305	8.3	20.0
7 20	17 12.97	-28 24.1	1.139	2.037	18.0	19.1	7 20	17 15.41	-16 8.9	2.447	3.301	11.1	20.1
14158	Alananderson		6 16.1 192° 66'	3° 1'	15.7	18	105555	2000 RK ₅₃		6 16.1 228° 11'	3° 6'	16.1	18
5 11	18 6.51	-16 27.9	1.845	2.685	14.5	18.5	5 11	18 6.60	-33 50.3	2.673	3.490	11.2	20.1
5 21	18 1.30	-15 59.6	1.766	2.684	11.2	18.3	5 21	18 1.10	-34 30.3	2.581	3.481	8.8	20.0
5 31	17 53.78	-15 34.5	1.709	2.683	7.5	18.0	5 31	17 53.59	-35 5.3	2.512	3.472	6.3	19.8
6 10	17 44.66	-15 13.9	1.677	2.681	4.0	17.8	6 10	17 44.61	-35 32.0	2.469	3.463	4.1	19.6
6 20	17 34.88	-14 59.0	1.672	2.679	3.7	17.8	6 20	17 34.94	-35 48.4	2.455	3.453	3.8	19.6
6 30	17 25.52	-14 50.9	1.694	2.677	7.0	18.0	6 30	17 25.48	-35 53.7	2.469	3.442	5.8	19.7
7 10	17 17.58	-14 50.2	1.741	2.674	10.7	18.2	7 10	17 17.12	-35 49.0	2.510	3.432	8.4	19.9
7 20	17 11.77	-14 57.0	1.810	2.670	14.1	18.4	7 20	17 10.53	-35 36.8	2.575	3.421	10.9	20.0
70165	1999 NT ₄₉		6 16.1 344° 47'	0° 3'	16.0	18	343067	2009 CT ₃₁		6 16.1 133° 80'	0° 5'	16.1	17
5 11	18 4.36	-24 26.0	1.218	2.092	18.3	17.9	5 11	18 5.26	-24 38.1	2.232	3.069	12.4	21.6
5 21	18 0.87	-24 1.9	1.147	2.086	14.1	17.6	5 21	18 0.05	-24 43.5	2.156	3.075	9.4	21.4
5 31	17 54.07	-23 33.6	1.095	2.080	9.1	17.3	5 31	17 52.84	-24 47.3	2.103	3.081	6.1	21.2
6 10	17 44.91	-23 1.1	1.065	2.076	3.5	17.0	6 10	17 44.28	-24 48.5	2.077	3.087	2.4	21.0
6 20	17 34.73	-22 25.5	1.058	2.072	2.3	16.9	6 20	17 35.21	-24 46.4	2.078	3.092	1.5	20.9
6 30	17 25.20	-21 49.4	1.074	2.069	8.0	17.2	6 30	17 26.53	-24 41.5	2.108	3.098	5.2	21.2
7 10	17 17.79	-21 16.7	1.112	2.067	13.3	17.5	7 10	17 19.11	-24 34.8	2.164	3.103	8.6	21.4
7 20	17 13.46	-20 50.4	1.170	2.065	17.8	17.7	7 20	17 13.55	-24 27.8	2.244	3.108	11.6	21.6
141344	2002 AD ₁₅		6 16.1 65° 00'	5° 7'	15.8	18	448508	2010 MX ₈₄		6 16.1 229° 75'	7° 7'	16.9	18
5 11	18 9.38	-36 32.1	2.125	2.944	13.6	19.4	5 11	18 12.88	-50 31.9	2.943	3.691	11.8	21.9
5 21	18 3.69	-37 48.5	2.061	2.958	10.9	19.2	5 21	18 6.23	-51 20.7	2.854	3.681	10.3	21.8
5 31	17 55.42	-38 57.4	2.020	2.972	8.2	19.1	5 31	17 57.02	-51 56.3	2.787	3.670	8.9	21.7
6 10	17 45.34	-39 53.3	2.004	2.985	6.1	19.0	6 10	17 45.97	-52 14.2	2.743	3.659	7.9	21.6
6 20	17 34.45	-40 32.5	2.015	2.999	5.9	19.0	6 20	17 34.10	-52 11.3	2.725	3.647	7.8	21.5
6 30	17 24.01	-40 53.7	2.053	3.014	7.7	19.1	6 30	17 22.62	-51 47.1	2.732	3.635	8.5	21.6
7 10	17 15.13	-40 58.7	2.116	3.028	10.2	19.3	7 10	17 12.67	-51 4.3	2.764	3.623	9.9	21.6
7 20	17 8.64	-40 51.2	2.202	3.042	12.7	19.5	7 20	17 5.05	-50 7.5	2.819	3.610	11.5	21.7
145961	1999 XC ₂₆₅		6 16.1 340° 40'	1° 1'	16.1	17	430359	2014 AY ₉		6 16.1 296° 49'	1° 6'	15.9	

EPHEMERIDES

6 16.1

6 16.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
63976	2001 <i>SM</i> ₇₈		6 16.1 180°19	0°4/16.1 18			351285	2004 <i>TX</i> ₁₂		6 16.1 303°42	0°6/16.1 18		
5 11	18 7.90	-24 32.1	1.970	2.809	13.7	20.8	5 11	18 4.67	-21 7.2	1.583	2.440	15.6	20.7
5 21	18 2.37	-24 35.9	1.890	2.810	10.5	20.6	5 21	18 0.81	-21 18.0	1.481	2.411	12.2	20.4
5 31	17 54.48	-24 37.9	1.833	2.811	6.8	20.4	5 31	17 54.06	-21 31.8	1.400	2.382	8.0	20.1
6 10	17 44.98	-24 36.9	1.801	2.811	2.7	20.1	6 10	17 45.03	-21 47.4	1.342	2.353	3.2	19.7
6 20	17 34.79	-24 32.2	1.797	2.811	1.7	20.0	6 20	17 34.70	-22 3.5	1.310	2.324	2.1	19.6
6 30	17 25.04	-24 24.2	1.820	2.810	5.9	20.3	6 30	17 24.41	-22 19.5	1.302	2.295	7.3	19.8
7 10	17 16.72	-24 14.4	1.869	2.809	9.7	20.5	7 10	17 15.57	-22 35.4	1.319	2.267	12.2	20.0
7 20	17 10.58	-24 4.7	1.942	2.807	13.1	20.7	7 20	17 9.27	-22 52.2	1.356	2.238	16.7	20.2
271770	2004 <i>SA</i> ₅₁		6 16.1 353°25	2°0/15.9 17			205186	2000 <i>DZ</i> ₁₀		6 16.1 224°52	1°8/16.3 17		
5 11	18 1.91	-20 14.8	1.349	2.219	17.0	19.8	5 11	18 6.23	-28 23.3	2.107	2.944	13.0	21.4
5 21	17 58.63	-19 52.8	1.277	2.214	13.1	19.5	5 21	18 1.08	-28 33.4	2.022	2.940	10.1	21.2
5 31	17 52.48	-19 31.9	1.226	2.210	8.5	19.3	5 31	17 53.67	-28 39.2	1.960	2.935	6.6	21.0
6 10	17 44.29	-19 13.0	1.197	2.207	3.7	19.0	6 10	17 44.68	-28 39.1	1.924	2.931	3.1	20.8
6 20	17 35.23	-18 57.1	1.192	2.205	3.0	18.9	6 20	17 35.02	-28 31.9	1.915	2.927	2.4	20.7
6 30	17 26.70	-18 45.7	1.211	2.203	7.7	19.2	6 30	17 25.73	-28 18.1	1.934	2.922	5.7	20.9
7 10	17 19.98	-18 40.1	1.252	2.203	12.4	19.4	7 10	17 17.80	-27 59.4	1.978	2.917	9.3	21.1
7 20	17 15.93	-18 41.1	1.313	2.203	16.5	19.7	7 20	17 11.94	-27 38.5	2.046	2.912	12.5	21.3
387897	2004 <i>TR</i> ₂₇₂		6 16.1 186°45	0°1/16.1 18			133242	2003 <i>QT</i> ₁₁₁		6 16.1 343°58	0°7/16.0 17		
5 11	18 6.38	-23 54.3	2.053	2.892	13.2	21.6	5 11	18 3.19	-21 22.5	1.099	1.980	19.3	19.2
5 21	18 1.09	-23 46.0	1.972	2.892	10.1	21.4	5 21	18 0.49	-22 11.2	1.028	1.971	14.9	18.9
5 31	17 53.61	-23 35.8	1.914	2.892	6.5	21.2	5 31	17 54.20	-23 7.2	0.976	1.962	9.7	18.5
6 10	17 44.63	-23 23.2	1.881	2.891	2.5	21.0	6 10	17 45.14	-24 7.0	0.944	1.955	3.8	18.2
6 20	17 35.03	-23 8.0	1.876	2.890	1.6	20.9	6 20	17 34.66	-25 5.6	0.934	1.949	2.6	18.1
6 30	17 25.85	-22 51.3	1.899	2.889	5.7	21.2	6 30	17 24.61	-25 58.8	0.948	1.944	8.6	18.4
7 10	17 18.02	-22 34.6	1.948	2.887	9.4	21.4	7 10	17 16.74	-26 45.0	0.982	1.940	14.2	18.7
7 20	17 12.23	-22 19.7	2.020	2.885	12.7	21.6	7 20	17 12.26	-27 24.4	1.034	1.937	19.0	19.0
86053	1999 <i>RY</i> ₄		6 16.1 151°54	9°5/17.8 18			338191	2002 <i>RO</i> ₂₄₀		6 16.1 330°77	2°8/16.5 16		
5 11	18 18.75	-57 3.2	2.855	3.565	12.9	19.4	5 11	18 6.06	-30 49.7	1.845	2.687	14.4	21.1
5 21	18 11.10	-58 3.2	2.788	3.571	11.7	19.3	5 21	18 1.27	-30 56.7	1.765	2.684	11.2	20.9
5 31	18 0.29	-58 46.4	2.741	3.577	10.5	19.2	5 31	17 53.93	-30 57.0	1.707	2.681	7.6	20.6
6 10	17 47.25	-59 7.3	2.716	3.582	9.7	19.2	6 10	17 44.81	-30 48.2	1.673	2.678	3.9	20.4
6 20	17 33.35	-59 2.6	2.714	3.587	9.5	19.2	6 20	17 34.97	-30 29.3	1.666	2.675	3.2	20.4
6 30	17 20.17	-58 32.2	2.735	3.592	10.0	19.2	6 30	17 25.61	-30 1.1	1.685	2.673	6.5	20.6
7 10	17 9.10	-57 39.8	2.780	3.597	11.0	19.3	7 10	17 17.84	-29 26.7	1.729	2.671	10.2	20.8
7 20	17 1.03	-56 31.2	2.845	3.601	12.2	19.4	7 20	17 12.45	-28 49.9	1.796	2.669	13.6	21.0
16782	1996 <i>XC</i> ₁₉		6 16.1 242°20	1°8/16.1 18			379408	2010 <i>AA</i> ₄₂		6 16.1 194°99	2°0/15.9 18		
5 11	18 3.41	-16 54.2	2.257	3.094	12.3	18.4	5 11	18 6.32	-16 44.8	2.611	3.434	11.2	22.6
5 21	17 58.66	-17 2.8	2.173	3.090	9.5	18.2	5 21	18 0.58	-16 40.7	2.521	3.430	8.7	22.4
5 31	17 52.00	-17 15.7	2.111	3.086	6.2	18.0	5 31	17 53.10	-16 39.5	2.455	3.427	5.7	22.2
6 10	17 44.01	-17 32.6	2.076	3.082	3.0	17.7	6 10	17 44.42	-16 41.4	2.417	3.422	2.8	22.0
6 20	17 35.42	-17 53.1	2.068	3.079	2.4	17.7	6 20	17 35.22	-16 46.3	2.407	3.416	2.4	21.9
6 30	17 27.09	-18 16.5	2.088	3.075	5.5	17.9	6 30	17 26.26	-16 54.4	2.427	3.410	5.2	22.1
7 10	17 19.86	-18 42.4	2.134	3.071	8.9	18.1	7 10	17 18.29	-17 5.6	2.475	3.403	8.2	22.3
7 20	17 14.33	-19 10.4	2.205	3.067	11.9	18.3	7 20	17 11.87	-17 20.1	2.547	3.395	10.9	22.5
111213	2001 <i>WD</i> ₃₅		6 16.1 274°37	0°4/16.1 18			461887	2006 <i>KB</i> ₃₀		6 16.1 39°85	1°9/15.9 17		
5 11	18 4.58	-22 57.2	2.175	3.014	12.6	19.4	5 11	18 6.22	-21 36.0	1.107	1.983	19.5	21.2
5 21	17 59.80	-23 24.6	2.083	3.004	9.6	19.2	5 21	18 2.12	-21 0.4	1.057	1.997	14.9	21.0
5 31	17 52.87	-23 53.2	2.015	2.993	6.2	19.0	5 31	17 54.71	-20 24.4	1.026	2.012	9.6	20.7
6 10	17 44.39	-24 21.4	1.973	2.983	2.4	18.7	6 10	17 45.12	-19 49.4	1.017	2.027	4.0	20.4
6 20	17 35.16	-24 47.5	1.958	2.972	1.6	18.6	6 20	17 34.86	-19 17.3	1.030	2.043	3.1	20.4
6 30	17 26.13	-25 10.5	1.972	2.962	5.5	18.9	6 30	17 25.61	-18 50.7	1.066	2.060	8.3	20.8
7 10	17 18.27	-25 30.3	2.011	2.951	9.1	19.1	7 10	17 18.69	-18 32.1	1.124	2.077	13.3	21.1
7 20	17 12.29	-25 47.8	2.074	2.940	12.4	19.3	7 20	17 14.89	-18 22.3	1.202	2.095	17.5	21.4
395108	2009 <i>TB</i> ₁		6 16.1 318°65	1°1/16.1 18			146352	2001 <i>OG</i> ₁₀₃		6 16.1 322°78	1°8/16.4 17		
5 11	18 3.94	-24 27.8	1.865	2.714	14.0	20.1	5 11	18 3.56	-28 12.2	1.303	2.172	17.6	19.4
5 21	18 0.07	-24 55.0	1.744	2.669	10.9	19.8	5 21	18 0.44	-28 5.3	1.217	2.153	13.7	19.1
5 31	17 53.55	-25 23.9	1.644	2.624	7.2	19.5	5 31	17 53.99	-27 51.3	1.151	2.134	9.1	18.8
6 10	17 44.84	-25 52.3	1.569	2.579	3.0	19.1	6 10	17 45.02	-27 28.2	1.106	2.115	4.0	18.4
6 20	17 34.77	-26 17.8	1.520	2.534	2.2	19.0	6 20	17 34.80	-26 55.1	1.084	2.098	2.8	18.3
6 30	17 24.51	-26 38.8	1.498	2.489	6.7	19.2	6 30	17 24.98	-26 14.0	1.086	2.081	8.0	18.5
7 10	17 15.38	-26 55.2	1.500	2.444	11.3	19.3	7 10	17 17.17	-25 29.3	1.110	2.065	13.2	18.8
7 20	17 8.45	-27 8.1	1.524	2.400	15.5	19.5	7 20	17 12.43	-24 45.9	1.154	2.051	17.9	19.0
485671	2011 <i>WN</i> ₁₀₅		6 16.1 287°05	2°1/16.1 18			127513	2002 <i>TD</i> ₂₅₀		6 16.1 334°14	2°3/15.9 18		
5 11	18 4.90	-27 23.6	2.166	3.004	12.7	20.9	5 11	18 1.03	-19 15.4	1.182	2.061	18.3	19.7
5 21	18 0.16	-27 59.7	2.074	2.992	9.8	20.7	5 21	17 58.50	-19 1.3	1.105	2.046	14.2	19.4
5 31	17 53.17	-28 34.4	2.005	2.980	6.5	20.5	5 31	17 52.73	-18 50.4	1.046	2.032	9.4	19.1
6 10	17 44.53	-29 5.1	1.961	2.968	3.2	20.2	6 10	17 44.53	-18 43.5	1.009	2.018	4.2	18.7
6 20	17 35.07	-29 29.4	1.945	2.956	2.6	20.2	6 20	17 35.12	-18 41.4	0.993	2.006	3.4	18.6
6 30	17 25.83	-29 46.3	1.957	2.944	5.8	20.4	6 30	17 26.11	-18 44.7	1.001	1.995	8.6	18.9
7 10	17 17.80	-29 56.4	1.995	2.932	9.3	20.6	7 10	17 19.04	-18 54.2	1.029	1.985	13.9	19.1
7 20	17 11.75	-30 1.2	2.056	2.920	12.5	20.7	7 20	17 14.99	-19 10.1	1.076	1.977	18.6	19.4
73079	Davidbaltimore		6 16.1 20°77	20°2/ 9.9 18			189531	2000 <i>QV</i>					

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
392068	2009 <i>CO</i> ₄₀	6 16.1 217°37'		0°2/16.1 18			382471	2000 <i>US</i> ₁₉	6 16.1 259°35'		3°3/16.1 18		
5 11	18 5.56	-24 16.3	2.297	3.132	12.2	22.0	5 11	18 8.79	-30 23.1	2.009	2.842	13.7	21.0
5 21	18 0.34	-24 15.5	2.208	3.126	9.3	21.8	5 21	18 3.48	-31 3.3	1.911	2.824	10.8	20.7
5 31	17 53.10	-24 13.1	2.143	3.120	6.0	21.6	5 31	17 55.52	-31 40.2	1.836	2.806	7.4	20.5
6 10	17 44.47	-24 8.3	2.104	3.113	2.3	21.3	6 10	17 45.55	-32 9.9	1.786	2.788	4.2	20.3
6 20	17 35.21	-24 0.6	2.092	3.106	1.5	21.3	6 20	17 34.53	-32 29.4	1.763	2.769	3.7	20.2
6 30	17 26.27	-23 50.5	2.109	3.099	5.2	21.5	6 30	17 23.66	-32 37.3	1.767	2.750	6.8	20.3
7 10	17 18.50	-23 39.3	2.153	3.091	8.7	21.7	7 10	17 14.19	-32 34.8	1.797	2.730	10.5	20.5
7 20	17 12.55	-23 28.5	2.221	3.083	11.8	21.9	7 20	17 7.04	-32 24.8	1.850	2.710	13.9	20.7
508328	2015 <i>MX</i> ₇	6 16.1 42°28'		1°6/15.9 17			415082	2012 <i>BW</i> ₁₀₉	6 16.1 61°40'		2°5/16.2 17		
5 11	18 3.14	-20 4.5	1.880	2.729	13.9	21.1	5 11	18 7.58	-16 48.5	1.349	2.208	17.7	20.5
5 21	17 58.63	-19 43.4	1.816	2.741	10.6	21.0	5 21	18 2.69	-16 54.2	1.295	2.224	13.6	20.3
5 31	17 52.01	-19 23.3	1.774	2.753	6.8	20.8	5 31	17 54.92	-17 6.8	1.260	2.240	8.9	20.1
6 10	17 44.01	-19 4.8	1.757	2.766	3.0	20.5	6 10	17 45.22	-17 25.6	1.249	2.256	4.2	19.8
6 20	17 35.54	-18 48.5	1.767	2.779	2.4	20.5	6 20	17 34.84	-17 49.6	1.262	2.273	3.3	19.8
6 30	17 27.60	-18 35.6	1.803	2.792	6.0	20.8	6 30	17 25.21	-18 17.6	1.299	2.290	7.6	20.1
7 10	17 21.06	-18 27.0	1.864	2.805	9.7	21.0	7 10	17 17.55	-18 48.7	1.361	2.307	12.1	20.4
7 20	17 16.52	-18 23.4	1.948	2.819	12.8	21.3	7 20	17 12.63	-19 22.1	1.443	2.324	15.9	20.7
70233	1999 <i>RG</i> ₆₁	6 16.1 220°85'		5°2/16.8 17			287173	2002 <i>RZ</i> ₂₅₄	6 16.1 194°15'		0°6/16.1 17		
5 11	18 11.33	-35 27.3	1.593	2.429	16.6	19.7	5 11	18 8.49	-22 4.7	2.027	2.863	13.5	22.0
5 21	18 5.88	-35 50.6	1.515	2.426	13.2	19.5	5 21	18 2.77	-22 0.5	1.942	2.861	10.4	21.8
5 31	17 57.18	-36 3.0	1.459	2.424	9.5	19.3	5 31	17 54.76	-21 56.1	1.881	2.858	6.7	21.6
6 10	17 46.15	-35 59.7	1.425	2.421	6.1	19.1	6 10	17 45.15	-21 50.7	1.845	2.855	2.6	21.3
6 20	17 34.15	-35 38.1	1.417	2.418	5.4	19.0	6 20	17 34.86	-21 44.2	1.837	2.851	1.8	21.2
6 30	17 22.80	-34 59.0	1.434	2.414	8.2	19.2	6 30	17 24.94	-21 37.0	1.857	2.846	5.9	21.5
7 10	17 13.55	-34 7.4	1.475	2.411	12.0	19.4	7 10	17 16.39	-21 30.3	1.904	2.841	9.7	21.7
7 20	17 7.34	-33 9.6	1.537	2.407	15.7	19.6	7 20	17 9.93	-21 25.5	1.974	2.835	13.1	21.9
389554	2010 <i>RK</i> ₁₂₆	6 16.1 184°07'		1°0/16.2 18			290366	2005 <i>SS</i> ₂₆₇	6 16.1 300°86'		3°4/16.8 18		
5 11	18 3.57	-26 4.3	2.845	3.673	10.3	21.9	5 11	18 6.03	-33 53.6	2.103	2.934	13.3	20.4
5 21	17 58.47	-26 19.4	2.759	3.673	7.8	21.7	5 21	18 1.06	-33 53.8	2.014	2.924	10.5	20.2
5 31	17 51.75	-26 32.6	2.698	3.673	5.1	21.5	5 31	17 53.74	-33 45.3	1.948	2.915	7.3	20.0
6 10	17 43.91	-26 43.0	2.664	3.672	2.2	21.3	6 10	17 44.77	-33 25.6	1.906	2.906	4.3	19.8
6 20	17 35.60	-26 49.5	2.658	3.671	1.5	21.2	6 20	17 35.12	-32 53.9	1.891	2.897	3.6	19.7
6 30	17 27.54	-26 52.1	2.682	3.670	4.4	21.5	6 30	17 25.90	-32 11.4	1.904	2.888	6.3	19.9
7 10	17 20.43	-26 51.6	2.734	3.668	7.2	21.6	7 10	17 18.13	-31 21.5	1.942	2.879	9.6	20.1
7 20	17 14.80	-26 49.1	2.810	3.667	9.8	21.8	7 20	17 12.54	-30 28.3	2.003	2.870	12.7	20.2
158382	2001 <i>XC</i> ₂₁₅	6 16.1 140°50'		5°9/16.5 18			103149	1999 <i>XC</i> ₂₁₅	6 16.1 213°04'		2°4/16.0 18		
5 11	18 6.33	-5 37.6	2.011	2.824	14.4	20.3	5 11	18 4.64	-16 22.5	2.132	2.968	12.9	19.9
5 21	18 0.91	-5 33.5	1.939	2.832	11.7	20.1	5 21	17 59.70	-16 16.9	2.048	2.965	10.0	19.7
5 31	17 53.44	-5 42.3	1.890	2.839	8.8	19.9	5 31	17 52.74	-16 15.3	1.987	2.961	6.7	19.5
6 10	17 44.59	-6 5.4	1.864	2.846	6.5	19.8	6 10	17 44.37	-16 18.2	1.951	2.957	3.4	19.2
6 20	17 35.18	-6 42.9	1.866	2.852	6.1	19.8	6 20	17 35.38	-16 25.6	1.943	2.952	2.9	19.2
6 30	17 26.15	-7 33.4	1.894	2.858	8.0	19.9	6 30	17 26.68	-16 37.4	1.963	2.948	6.0	19.4
7 10	17 18.38	-8 34.5	1.949	2.864	10.8	20.1	7 10	17 19.16	-16 53.7	2.009	2.943	9.5	19.6
7 20	17 12.50	-9 42.8	2.026	2.869	13.5	20.3	7 20	17 13.47	-17 14.0	2.078	2.938	12.6	19.8
186778	2004 <i>DW</i> ₃₃	6 16.1 150°15'		1°3/16.2 17			187540	2006 <i>UQ</i> ₁₁₅	6 16.1 79°91'		3°6/15.8 17		
5 11	18 9.66	-26 22.9	1.880	2.718	14.3	21.4	5 11	18 6.81	-16 29.5	1.525	2.376	16.4	20.6
5 21	18 3.81	-26 36.9	1.807	2.725	11.0	21.1	5 21	18 1.82	-15 55.6	1.463	2.388	12.7	20.4
5 31	17 55.46	-26 48.1	1.755	2.732	7.1	20.9	5 31	17 54.23	-15 26.0	1.423	2.400	8.5	20.2
6 10	17 45.40	-26 54.4	1.730	2.738	3.0	20.7	6 10	17 44.94	-15 2.3	1.407	2.411	4.6	19.9
6 20	17 34.67	-26 54.4	1.731	2.744	2.1	20.6	6 20	17 35.06	-14 46.0	1.416	2.423	4.1	19.9
6 30	17 24.45	-26 48.4	1.760	2.750	6.1	20.9	6 30	17 25.83	-14 38.3	1.450	2.435	7.7	20.2
7 10	17 15.83	-26 38.2	1.815	2.754	10.0	21.1	7 10	17 18.35	-14 39.6	1.508	2.446	11.7	20.4
7 20	17 9.55	-26 26.4	1.893	2.759	13.4	21.4	7 20	17 13.32	-14 49.4	1.588	2.458	15.3	20.7
235809	2004 <i>XJ</i> ₅₈	6 16.1 164°88'		1°9/16.2 18			43666	2002 <i>FX</i> ₃₃	6 16.1 44°55'		4°1/16.2 18		
5 11	18 7.59	-28 11.9	2.227	3.058	12.6	21.7	5 11	18 5.99	-34 8.1	2.300	3.125	12.5	19.5
5 21	18 1.97	-28 34.3	2.148	3.062	9.7	21.5	5 21	18 0.90	-34 53.2	2.223	3.128	9.9	19.4
5 31	17 54.18	-28 53.3	2.092	3.065	6.4	21.3	5 31	17 53.59	-35 32.1	2.168	3.130	7.1	19.2
6 10	17 44.90	-29 6.9	2.062	3.068	3.1	21.1	6 10	17 44.72	-36 1.5	2.139	3.132	4.7	19.0
6 20	17 34.99	-29 13.3	2.060	3.071	2.4	21.1	6 20	17 35.16	-36 18.9	2.137	3.134	4.4	19.0
6 30	17 25.46	-29 12.5	2.087	3.073	5.6	21.3	6 30	17 25.94	-36 23.6	2.163	3.137	6.4	19.1
7 10	17 17.26	-29 5.9	2.140	3.075	8.9	21.5	7 10	17 18.05	-36 17.2	2.214	3.139	9.2	19.3
7 20	17 11.06	-28 55.8	2.216	3.076	11.9	21.7	7 20	17 12.19	-36 2.6	2.289	3.142	11.8	19.5
500861	2013 <i>JE</i> ₁₁	6 16.1 9°36'		3°2/15.9 17			383360	2006 <i>SP</i> ₁₇	6 16.1 296°68'		1°0/16.0 17		
5 11	18 4.32	-25 34.5	1.029	1.913	20.1	20.2	5 11	18 5.88	-22 13.1	1.448	2.308	16.6	21.0
5 21	18 1.51	-26 38.8	0.971	1.914	15.5	19.9	5 21	18 1.98	-21 57.9	1.349	2.280	13.0	20.7
5 31	17 54.88	-27 44.9	0.930	1.916	10.2	19.6	5 31	17 54.95	-21 41.5	1.270	2.252	8.5	20.4
6 10	17 45.40	-28 46.8	0.910	1.920	4.9	19.3	6 10	17 45.46	-21 23.5	1.214	2.224	3.5	20.0
6 20	17 34.64	-29 38.3	0.912	1.924	4.1	19.3	6 20	17 34.60	-21 4.1	1.182	2.196	2.4	19.8
6 30	17 24.58	-30 15.7	0.936	1.930	9.1	19.6	6 30	17 23.87	-20 44.8	1.175	2.167	7.9	20.1
7 10	17 17.02	-30 39.8	0.980	1.937	14.4	19.9	7 10	17 14.78	-20 27.8	1.191	2.139	13.2	20.3
7 20	17 13.08	-30 53.8	1.043	1.945	18.9	20.2	7 20	17 8.49	-20 15.6	1.227	2.111	17.9	20.5
85269	1994 <i>AV</i> ₅	6 16.1 175°11'		1°9/16.4 18			311511	2005 <i>WL</i> ₁₅₀	6 16.1 216°53'		0°6/16.2 18		
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EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
254605	2005 <i>GT</i> ₁₃₄		6 16.1 22°96'	0°2/16.1	17		229555	2005 <i>YD</i> ₂₀₂		6 16.1 30°42'	2°8/16.8	18	
5 11	18 4.63	-23 19.7	1.185	2.060	18.6	20.5	5 11	18 7.90	-32 15.3	1.546	2.394	16.4	19.1
5 21	18 1.02	-23 16.2	1.127	2.066	14.2	20.2	5 21	18 2.95	-31 53.3	1.478	2.400	12.7	18.9
5 31	17 54.14	-23 12.0	1.087	2.073	9.1	20.0	5 31	17 55.09	-31 20.2	1.431	2.406	8.6	18.7
6 10	17 45.01	-23 6.0	1.069	2.080	3.5	19.7	6 10	17 45.33	-30 34.6	1.408	2.413	4.3	18.4
6 20	17 35.03	-22 57.9	1.075	2.089	2.2	19.6	6 20	17 34.95	-29 37.1	1.410	2.421	3.2	18.4
6 30	17 25.83	-22 48.7	1.103	2.099	7.8	20.0	6 30	17 25.37	-28 31.3	1.437	2.428	7.0	18.6
7 10	17 18.83	-22 40.4	1.154	2.109	12.8	20.3	7 10	17 17.80	-27 22.7	1.490	2.436	11.2	18.9
7 20	17 14.86	-22 34.9	1.224	2.120	17.1	20.6	7 20	17 12.97	-26 16.7	1.564	2.445	14.9	19.1
124809	2001 <i>SR</i> ₂₈₀		6 16.1 202°38'	0°5/16.1	18		35883	1999 <i>JH</i> ₇₈		6 16.1 331°02'	2°9/15.7	18	
5 11	18 7.17	-22 15.3	1.958	2.798	13.7	20.2	5 11	18 2.39	-20 38.1	1.144	2.024	18.8	17.1
5 21	18 1.86	-22 12.5	1.875	2.795	10.5	20.0	5 21	17 59.62	-19 50.0	1.068	2.010	14.6	16.8
5 31	17 54.24	-22 9.5	1.814	2.792	6.8	19.7	5 31	17 53.50	-18 59.8	1.011	1.997	9.6	16.5
6 10	17 44.99	-22 5.6	1.779	2.789	2.7	19.5	6 10	17 44.90	-18 9.8	0.975	1.985	4.5	16.1
6 20	17 35.03	-22 0.4	1.771	2.785	1.8	19.4	6 20	17 35.14	-17 23.2	0.962	1.974	3.9	16.1
6 30	17 25.45	-21 54.5	1.791	2.781	5.9	19.7	6 30	17 25.89	-16 44.0	0.971	1.963	9.1	16.3
7 10	17 17.26	-21 49.1	1.836	2.776	9.9	19.9	7 10	17 18.70	-16 15.6	1.000	1.954	14.4	16.6
7 20	17 11.19	-21 45.4	1.905	2.771	13.3	20.1	7 20	17 14.62	-15 59.9	1.048	1.946	19.2	16.8
477637	2010 <i>MK</i> ₂₀		6 16.1 246°20'	6°6/16.9	18		137689	1999 <i>XB</i> ₆₀		6 16.1 213°07'	0°4/16.1	17 R	
5 11	18 8.87	-42 46.9	2.347	3.145	13.1	21.0	5 11	18 8.71	-22 24.5	1.946	2.784	13.9	21.9
5 21	18 3.29	-43 28.3	2.269	3.145	10.9	20.8	5 21	18 3.12	-22 22.0	1.858	2.777	10.7	21.6
5 31	17 55.20	-43 57.9	2.213	3.145	8.7	20.7	5 31	17 55.12	-22 19.2	1.792	2.770	6.9	21.4
6 10	17 45.36	-44 11.4	2.181	3.144	7.0	20.6	6 10	17 45.39	-22 15.2	1.752	2.762	2.7	21.1
6 20	17 34.80	-44 6.1	2.175	3.144	6.7	20.6	6 20	17 34.87	-22 9.5	1.740	2.754	1.8	21.0
6 30	17 24.70	-43 42.2	2.194	3.144	7.9	20.7	6 30	17 24.69	-22 2.7	1.755	2.745	6.1	21.3
7 10	17 16.18	-43 2.7	2.239	3.143	10.1	20.8	7 10	17 15.92	-21 56.0	1.796	2.735	10.1	21.5
7 20	17 9.99	-42 12.3	2.307	3.143	12.3	20.9	7 20	17 9.33	-21 50.9	1.860	2.724	13.6	21.7
16326	2052 <i>T</i> ₋₂		6 16.1 318°39'	0°5/16.2	18		134547	1999 <i>RL</i> ₁₄₈		6 16.1 238°62'	0°5/16.1	18	
5 11	18 4.55	-24 46.3	1.906	2.753	13.8	18.0	5 11	18 8.92	-22 29.6	1.877	2.717	14.3	20.7
5 21	17 59.98	-24 47.3	1.825	2.749	10.6	17.8	5 21	18 3.46	-22 23.2	1.782	2.702	11.0	20.5
5 31	17 53.08	-24 46.4	1.765	2.745	6.8	17.5	5 31	17 55.45	-22 16.1	1.709	2.688	7.1	20.2
6 10	17 44.55	-24 42.6	1.731	2.741	2.7	17.3	6 10	17 45.56	-22 7.5	1.662	2.672	2.8	19.9
6 20	17 35.32	-24 35.2	1.724	2.738	1.7	17.2	6 20	17 34.74	-21 57.1	1.642	2.656	1.9	19.8
6 30	17 26.49	-24 24.9	1.743	2.734	5.9	17.5	6 30	17 24.20	-21 45.6	1.649	2.639	6.4	20.1
7 10	17 19.06	-24 13.1	1.787	2.731	9.8	17.7	7 10	17 15.07	-21 34.4	1.682	2.621	10.6	20.3
7 20	17 13.76	-24 1.8	1.855	2.728	13.3	17.9	7 20	17 8.21	-21 25.6	1.737	2.603	14.4	20.5
318508	2005 <i>EC</i> ₁₆₁		6 16.1 22°95'	1°5/16.1	17		72863	2001 <i>HJ</i> ₅₁		6 16.1 342°17'	2°0/15.9	17	
5 11	18 4.13	-20 39.6	1.165	2.041	18.8	20.8	5 11	18 1.34	-20 28.2	1.177	2.057	18.4	19.1
5 21	18 0.62	-20 32.2	1.108	2.047	14.4	20.6	5 21	17 58.72	-20 7.8	1.104	2.046	14.2	18.8
5 31	17 53.89	-20 27.0	1.069	2.054	9.3	20.3	5 31	17 52.88	-19 48.6	1.050	2.036	9.3	18.5
6 10	17 44.92	-20 23.9	1.052	2.063	3.8	20.0	6 10	17 44.65	-19 31.4	1.017	2.027	4.0	18.1
6 20	17 35.12	-20 22.9	1.058	2.072	2.7	20.0	6 20	17 35.33	-19 17.2	1.006	2.020	3.1	18.1
6 30	17 26.08	-20 24.4	1.087	2.082	8.0	20.3	6 30	17 26.50	-19 7.6	1.018	2.013	8.4	18.3
7 10	17 19.19	-20 29.3	1.138	2.092	13.0	20.6	7 10	17 19.67	-19 4.0	1.051	2.008	13.6	18.6
7 20	17 15.32	-20 38.4	1.208	2.104	17.3	20.9	7 20	17 15.83	-19 7.4	1.103	2.004	18.2	18.9
342544	2008 <i>UD</i> ₂₂₇		6 16.1 25°07'	1°1/16.2	17		257655	1999 <i>UM</i> ₃₆		6 16.1 153°24'	4°5/16.7	18	
5 11	18 5.73	-26 26.2	1.801	2.648	14.5	21.0	5 11	18 7.00	-37 6.0	2.478	3.292	12.0	21.2
5 21	18 0.97	-26 29.9	1.726	2.650	11.1	20.8	5 21	18 1.53	-37 33.8	2.399	3.294	9.6	21.0
5 31	17 53.74	-26 30.2	1.672	2.651	7.2	20.6	5 31	17 53.93	-37 53.2	2.343	3.296	7.1	20.9
6 10	17 44.81	-26 25.8	1.643	2.653	3.0	20.3	6 10	17 44.87	-38 1.1	2.312	3.298	5.0	20.7
6 20	17 35.18	-26 15.9	1.641	2.654	2.0	20.2	6 20	17 35.23	-37 55.9	2.309	3.301	4.6	20.7
6 30	17 26.04	-26 1.1	1.665	2.656	6.2	20.5	6 30	17 25.99	-37 37.7	2.333	3.302	6.3	20.8
7 10	17 18.46	-25 43.6	1.714	2.658	10.1	20.7	7 10	17 18.08	-37 8.8	2.383	3.304	8.8	21.0
7 20	17 13.17	-25 25.8	1.786	2.660	13.6	21.0	7 20	17 12.15	-36 32.8	2.457	3.306	11.2	21.1
497464	2005 <i>YE</i> ₁₀₈		6 16.1 249°65'	0°7/16.2	17		106706	2000 <i>WK</i> ₁₆₉		6 16.1 211°64'	0°1/16.2	18	
5 11	18 10.30	-26 10.5	1.508	2.359	16.6	22.0	5 11	18 4.90	-21 10.7	2.798	3.624	10.5	19.7
5 21	18 5.13	-25 57.3	1.420	2.346	12.9	21.8	5 21	17 59.57	-21 38.9	2.704	3.618	8.0	19.5
5 31	17 56.79	-25 38.9	1.352	2.332	8.4	21.5	5 31	17 52.56	-22 8.9	2.636	3.611	5.1	19.3
6 10	17 46.11	-25 14.0	1.308	2.318	3.4	21.1	6 10	17 44.34	-22 39.5	2.595	3.605	2.0	19.1
6 20	17 34.31	-24 42.1	1.289	2.304	2.2	21.0	6 20	17 35.56	-23 9.3	2.583	3.597	1.3	19.0
6 30	17 22.94	-24 5.2	1.297	2.289	7.4	21.3	6 30	17 26.95	-23 37.5	2.601	3.590	4.5	19.2
7 10	17 13.44	-23 26.9	1.328	2.273	12.4	21.5	7 10	17 19.22	-24 3.8	2.648	3.582	7.5	19.4
7 20	17 6.82	-22 51.4	1.380	2.258	16.7	21.8	7 20	17 12.95	-24 28.4	2.719	3.573	10.1	19.6
523657	2012 <i>DJ</i> ₄		6 16.1 211°27'	5°6/15.8	18		291317	2006 <i>BT</i> ₁₆₈		6 16.1 42°85'	2°2/16.3	17	
5 11	18 15.55	-11 35.0	1.561	2.387	17.3	24.2	5 11	18 8.27	-27 22.3	1.199	2.067	18.9	20.6
5 21	18 8.86	-11 2.9	1.472	2.378	13.8	23.9	5 21	18 3.93	-27 37.5	1.141	2.075	14.6	20.4
5 31	17 59.10	-10 38.7	1.403	2.367	9.9	23.6	5 31	17 56.10	-27 48.1	1.101	2.083	9.5	20.1
6 10	17 47.02	-10 24.9	1.359	2.355	6.4	23.4	6 10	17 45.84	-27 51.0	1.083	2.092	4.2	19.9
6 20	17 33.76	-10 23.4	1.342	2.341	6.0	23.4	6 20	17 34.67	-27 44.5	1.089	2.102	3.0	19.8
6 30	17 20.80	-10 35.0	1.351	2.325	9.4	23.5	6 30	17 24.36	-27 29.3	1.118	2.112	8.0	20.1
7 10	17 9.55	-10 59.3	1.385	2.307	13.7	23.7	7 10	17 16.42	-27 9.0	1.169	2.122	13.0	20.4
7 20	17 1.03	-11 34.7	1.440	2.288	17.8	23.9	7 20	17 11.75	-26 47.6	1.240	2.132	17.2	20.7
136259	2003 <i>YH</i> ₄₅		6 16.1 236°94'	4°0/16.2	18 R		295184						

EPHEMERIDES

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6 16.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
511142	2013 YG ₄		6 16.1 233°46	1°1/16.3	17		94100	2000 YH ₇₃		6 16.2 63°72	2°3/16.0	18	
5 11	18 8.10	-26 42.6	2.251	3.081	12.5	23.3	5 11	18 2.84	-16 35.6	2.178	3.017	12.6	18.6
5 21	18 2.48	-26 45.4	2.153	3.068	9.7	23.1	5 21	17 58.19	-16 26.7	2.111	3.029	9.7	18.5
5 31	17 54.65	-26 45.0	2.078	3.053	6.3	22.9	5 31	17 51.70	-16 21.6	2.067	3.041	6.4	18.3
6 10	17 45.22	-26 39.9	2.030	3.038	2.7	22.6	6 10	17 44.02	-16 20.6	2.048	3.053	3.2	18.1
6 20	17 35.03	-26 29.2	2.010	3.023	1.8	22.5	6 20	17 35.89	-16 23.9	2.057	3.066	2.8	18.1
6 30	17 25.11	-26 13.3	2.018	3.007	5.5	22.8	6 30	17 28.17	-16 31.7	2.093	3.078	5.7	18.3
7 10	17 16.41	-25 54.0	2.053	2.990	9.1	23.0	7 10	17 21.63	-16 43.8	2.155	3.091	8.8	18.5
7 20	17 9.68	-25 33.7	2.112	2.972	12.4	23.1	7 20	17 16.81	-16 59.9	2.241	3.103	11.7	18.7
139159	2001 FM ₁₀₉		6 16.1 43°00	5°8/15.5	17		73736	1993 QT ₆		6 16.2 257°96	2°3/16.3	18	
5 11	18 5.07	-12 37.9	1.398	2.253	17.4	20.0	5 11	18 6.56	-29 20.2	2.039	2.876	13.4	20.1
5 21	18 0.75	-11 45.0	1.336	2.258	13.8	19.8	5 21	18 1.56	-29 37.3	1.951	2.867	10.4	19.9
5 31	17 53.72	-10 59.7	1.293	2.264	9.8	19.6	5 31	17 54.18	-29 50.0	1.885	2.859	7.0	19.7
6 10	17 44.86	-10 25.5	1.274	2.270	6.5	19.4	6 10	17 45.08	-29 56.0	1.845	2.850	3.5	19.4
6 20	17 35.31	-10 5.2	1.278	2.277	6.3	19.4	6 20	17 35.20	-29 53.5	1.831	2.841	2.8	19.4
6 30	17 26.37	-10 0.4	1.306	2.284	9.3	19.6	6 30	17 25.65	-29 42.7	1.845	2.832	6.1	19.6
7 10	17 19.21	-10 10.7	1.357	2.291	13.1	19.8	7 10	17 17.50	-29 25.5	1.885	2.823	9.7	19.8
7 20	17 14.58	-10 34.1	1.428	2.298	16.7	20.1	7 20	17 11.50	-29 4.7	1.947	2.814	13.0	20.0
433620	2013 YY ₁₀₉		6 16.1 27°81	5°0/16.6	18		337980	2002 CJ ₁₄₅		6 16.2 28°85	13°3/17.0	17	
5 11	18 4.17	-9 4.6	1.708	2.545	15.6	20.1	5 11	18 1.75	+ 5 41.6	1.408	2.215	19.8	19.6
5 21	17 59.70	-9 13.8	1.639	2.550	12.4	19.9	5 21	17 58.06	+ 6 50.5	1.362	2.226	17.4	19.4
5 31	17 52.92	-9 35.7	1.590	2.555	8.9	19.7	5 31	17 51.92	+ 7 33.5	1.333	2.239	15.2	19.3
6 10	17 44.54	-10 11.2	1.566	2.561	5.8	19.6	6 10	17 44.17	+ 7 44.6	1.324	2.252	13.7	19.3
6 20	17 35.49	-10 59.5	1.567	2.567	5.2	19.6	6 20	17 35.86	+ 7 21.0	1.335	2.266	13.4	19.3
6 30	17 26.85	-11 58.5	1.594	2.573	7.8	19.7	6 30	17 28.17	+ 6 24.0	1.366	2.281	14.4	19.4
7 10	17 19.63	-13 5.2	1.646	2.580	11.2	19.9	7 10	17 22.12	+ 4 59.2	1.418	2.297	16.3	19.5
7 20	17 14.55	-14 16.4	1.721	2.587	14.4	20.2	7 20	17 18.37	+ 3 14.2	1.488	2.313	18.4	19.7
303945	2005 WH ₂₀₄		6 16.1 103°90	1°5/16.1	17		60095	1999 TX ₁₆₂		6 16.2 10°80	1°2/16.2	18	
5 11	18 9.22	-19 47.4	1.395	2.251	17.4	21.1	5 11	18 3.31	-25 36.7	1.903	2.752	13.7	18.7
5 21	18 4.08	-19 45.9	1.331	2.259	13.4	20.9	5 21	17 59.07	-25 56.2	1.829	2.754	10.5	18.5
5 31	17 55.95	-19 47.4	1.287	2.268	8.6	20.6	5 31	17 52.55	-26 14.1	1.777	2.756	6.8	18.3
6 10	17 45.75	-19 51.3	1.267	2.276	3.6	20.3	6 10	17 44.44	-26 28.8	1.749	2.759	2.9	18.0
6 20	17 34.76	-19 57.0	1.271	2.284	2.6	20.3	6 20	17 35.67	-26 38.7	1.748	2.762	2.0	18.0
6 30	17 24.43	-20 4.4	1.301	2.292	7.5	20.6	6 30	17 27.30	-26 43.7	1.774	2.765	5.8	18.2
7 10	17 16.08	-20 14.2	1.354	2.300	12.1	20.9	7 10	17 20.33	-26 44.8	1.825	2.770	9.6	18.4
7 20	17 10.53	-20 27.0	1.429	2.308	16.1	21.2	7 20	17 15.48	-26 43.7	1.899	2.774	12.9	18.7
22106	Tomokoarai		6 16.2 111°91	5°6/14.7	18		243806	2000 SH ₁₆₂		6 16.2 283°39	3°8/16.0	18	
5 11	18 9.19	-11 19.7	2.095	2.915	13.7	17.6	5 11	18 3.78	-11 43.9	2.326	3.151	12.3	20.6
5 21	18 2.77	-9 52.8	2.036	2.936	10.9	17.5	5 21	17 59.13	-11 38.5	2.216	3.123	9.8	20.3
5 31	17 54.47	-8 30.9	2.001	2.957	8.0	17.3	5 31	17 52.53	-11 40.0	2.130	3.094	7.0	20.1
6 10	17 45.02	-7 17.9	1.993	2.977	5.9	17.2	6 10	17 44.46	-11 49.7	2.069	3.065	4.4	19.9
6 20	17 35.26	-6 17.3	2.012	2.996	5.9	17.3	6 20	17 35.60	-12 7.9	2.035	3.036	4.1	19.8
6 30	17 26.10	-5 31.6	2.060	3.015	8.0	17.4	6 30	17 26.80	-12 34.6	2.029	3.006	6.5	19.9
7 10	17 18.32	-5 1.7	2.134	3.033	10.7	17.6	7 10	17 18.90	-13 9.1	2.050	2.976	9.7	20.1
7 20	17 12.43	-4 46.8	2.230	3.051	13.2	17.8	7 20	17 12.61	-13 50.1	2.094	2.946	12.8	20.2
475532	2006 SD ₄₁₂		6 16.2 219°78	2°9/15.6	17		120609	1995 WW ₁₂		6 16.2 316°78	2°6/16.0	18	
5 11	18 3.08	-15 3.2	2.610	3.437	11.1	22.6	5 11	18 3.01	-17 32.4	1.574	2.432	15.7	19.6
5 21	17 58.17	-14 32.7	2.520	3.430	8.6	22.4	5 21	17 59.32	-17 21.3	1.488	2.416	12.2	19.3
5 31	17 51.64	-14 5.0	2.454	3.422	5.9	22.2	5 31	17 52.99	-17 14.4	1.422	2.401	8.1	19.0
6 10	17 43.99	-13 41.3	2.414	3.414	3.5	22.0	6 10	17 44.71	-17 12.4	1.379	2.387	4.0	18.8
6 20	17 35.86	-13 22.6	2.403	3.406	3.3	22.0	6 20	17 35.47	-17 15.7	1.362	2.373	3.3	18.7
6 30	17 27.98	-13 10.0	2.420	3.397	5.6	22.1	6 30	17 26.50	-17 24.8	1.369	2.359	7.4	18.9
7 10	17 21.03	-13 4.0	2.464	3.388	8.4	22.3	7 10	17 19.03	-17 39.6	1.400	2.346	11.8	19.1
7 20	17 15.54	-13 4.7	2.532	3.378	11.0	22.4	7 20	17 13.94	-18 0.0	1.452	2.333	15.8	19.3
401497	2013 EB ₁₃		6 16.2 244°27	3°6/15.9	18		506987	2008 SC ₂₀₆		6 16.2 228°07	2°2/15.9	18	
5 11	18 1.72	-12 22.3	2.396	3.225	11.9	21.2	5 11	18 5.39	-17 20.3	2.173	3.007	12.8	21.7
5 21	17 57.26	-12 5.9	2.315	3.224	9.3	21.0	5 21	18 0.34	-17 10.5	2.082	2.999	9.9	21.5
5 31	17 51.10	-11 55.3	2.257	3.222	6.6	20.8	5 31	17 53.25	-17 3.8	2.015	2.990	6.6	21.3
6 10	17 43.79	-11 51.6	2.224	3.221	4.2	20.7	6 10	17 44.71	-17 0.4	1.974	2.980	3.2	21.1
6 20	17 36.00	-11 55.5	2.219	3.220	3.9	20.6	6 20	17 35.50	-17 0.6	1.961	2.971	2.7	21.0
6 30	17 28.48	-12 7.0	2.242	3.218	6.1	20.8	6 30	17 26.55	-17 4.7	1.975	2.960	5.9	21.2
7 10	17 21.95	-12 25.9	2.291	3.217	8.9	20.9	7 10	17 18.76	-17 13.0	2.016	2.950	9.4	21.4
7 20	17 16.97	-12 51.1	2.363	3.215	11.5	21.1	7 20	17 12.78	-17 25.5	2.080	2.939	12.6	21.6
510024	2010 BW ₆₀		6 16.2 25°03	2°8/14.9	18		316264	2010 PV ₈		6 16.2 315°01	5°9/16.7	17	
5 11	18 12.81	-24 56.4	1.496	2.342	16.9	19.2	5 11	18 7.31	-34 47.4	1.248	2.107	18.8	20.1
5 21	18 6.41	-22 49.5	1.422	2.346	13.0	19.0	5 21	18 3.84	-35 14.4	1.166	2.091	15.1	19.8
5 31	17 57.17	-20 30.4	1.370	2.350	8.4	18.7	5 31	17 56.52	-35 30.1	1.103	2.075	10.9	19.5
6 10	17 46.14	-18 4.4	1.346	2.354	3.9	18.5	6 10	17 46.24	-35 28.5	1.061	2.060	7.0	19.2
6 20	17 34.62	-15 39.6	1.349	2.358	3.9	18.5	6 20	17 34.49	-35 5.4	1.041	2.045	6.2	19.1
6 30	17 24.01	-13 25.4	1.381	2.363	8.4	18.7	6 30	17 23.26	-34 21.3	1.045	2.031	9.6	19.3
7 10	17 15.48	-11 29.6	1.439	2.369	12.8	19.0	7 10	17 14.42	-33 21.8	1.069	2.018	14.3	19.5
7 20	17 9.69	-9 56.2	1.519	2.374	16.6	19.3	7 20	17 9.17	-32 15.1	1.113	2.005	18.7	19.7
160929	2001 XW ₂₃₇		6 16.2 59°64	0°9/16.3	18		231927	2001 DU ₃₀		6 16.2 73°49	4°1/16.3	17	R
5 11	18 8.01												

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
420580	2012 <i>HB</i> ₂₇		6 16.2 110°52	2°1/16.1	17		19354	Fredkoehler		6 16.2 234°58	4°3/15.4	18	
5 11	18 8.54	-17 36.6	1.680	2.524	15.5	21.4	5 11	18 2.09	-9 50.8	2.757	3.573	10.9	19.6
5 21	18 3.04	-17 37.5	1.616	2.537	11.9	21.2	5 21	17 57.37	-9 16.1	2.663	3.561	8.7	19.5
5 31	17 55.06	-17 42.8	1.573	2.550	7.8	21.0	5 31	17 51.14	-8 46.8	2.594	3.549	6.4	19.3
6 10	17 45.40	-17 52.3	1.554	2.562	3.6	20.7	6 10	17 43.86	-8 24.7	2.550	3.536	4.6	19.2
6 20	17 35.12	-18 5.3	1.562	2.574	2.8	20.7	6 20	17 36.10	-8 11.1	2.535	3.523	4.5	19.2
6 30	17 25.40	-18 21.6	1.597	2.586	6.7	21.0	6 30	17 28.53	-8 6.8	2.547	3.510	6.3	19.2
7 10	17 17.32	-18 40.8	1.657	2.597	10.7	21.2	7 10	17 21.79	-8 12.1	2.586	3.496	8.7	19.4
7 20	17 11.59	-19 3.0	1.739	2.608	14.2	21.5	7 20	17 16.39	-8 26.1	2.649	3.482	11.0	19.5
207884	2007 <i>WG</i> ₅₁		6 16.2 220°80	1°1/16.1	17		309159	2007 <i>AD</i> ₁₇		6 16.2 185°16	0°4/16.2	18	
5 11	18 4.44	-20 28.7	2.197	3.035	12.5	20.9	5 11	18 4.41	-23 4.4	2.407	3.242	11.7	20.6
5 21	17 59.58	-20 22.1	2.112	3.032	9.6	20.7	5 21	17 59.46	-23 30.1	2.324	3.242	8.9	20.4
5 31	17 52.72	-20 16.4	2.051	3.028	6.2	20.4	5 31	17 52.62	-23 56.4	2.264	3.242	5.7	20.2
6 10	17 44.49	-20 11.4	2.015	3.024	2.6	20.2	6 10	17 44.46	-24 22.0	2.232	3.241	2.3	20.0
6 20	17 35.67	-20 7.3	2.007	3.020	1.9	20.1	6 20	17 35.72	-24 45.2	2.227	3.241	1.4	19.9
6 30	17 27.15	-20 4.3	2.027	3.016	5.5	20.4	6 30	17 27.24	-25 5.5	2.251	3.241	4.9	20.1
7 10	17 19.81	-20 3.2	2.073	3.012	9.0	20.6	7 10	17 19.83	-25 23.0	2.302	3.240	8.2	20.3
7 20	17 14.28	-20 4.8	2.143	3.007	12.1	20.8	7 20	17 14.13	-25 38.3	2.377	3.239	11.1	20.5
105657	2000 <i>SL</i> ₂₈		6 16.2 54°52	3°9/15.3	18		349332	2007 <i>VD</i> ₂₈		6 16.2 214°10	1°1/16.1	17	
5 11	18 3.71	-15 32.9	1.982	2.822	13.6	18.6	5 11	18 4.54	-20 6.1	2.169	3.008	12.6	22.0
5 21	17 58.94	-14 34.2	1.917	2.834	10.5	18.4	5 21	17 59.68	-20 2.3	2.086	3.005	9.7	21.8
5 31	17 52.22	-13 38.3	1.874	2.845	7.2	18.3	5 31	17 52.81	-20 0.0	2.025	3.003	6.3	21.6
6 10	17 44.24	-12 47.8	1.858	2.857	4.4	18.1	6 10	17 44.54	-19 58.8	1.991	3.000	2.6	21.4
6 20	17 35.86	-12 5.2	1.868	2.869	4.3	18.1	6 20	17 35.68	-19 58.7	1.984	2.997	1.9	21.3
6 30	17 27.98	-11 32.5	1.905	2.881	6.9	18.3	6 30	17 27.13	-19 59.9	2.005	2.994	5.5	21.5
7 10	17 21.42	-11 10.8	1.967	2.893	10.1	18.5	7 10	17 19.76	-20 2.9	2.052	2.990	9.0	21.7
7 20	17 16.72	-11 0.1	2.052	2.906	13.0	18.7	7 20	17 14.22	-20 8.5	2.122	2.987	12.2	21.9
355894	2008 <i>WA</i> ₅₀		6 16.2 274°72	1°5/16.1	18		24141	1999 <i>VN</i> ₁₁₃		6 16.2 319°64	1°3/16.3	18	
5 11	18 5.59	-19 30.7	1.945	2.787	13.7	21.5	5 11	18 2.87	-25 56.9	1.199	2.076	18.3	18.7
5 21	18 0.90	-19 25.3	1.845	2.766	10.6	21.2	5 21	18 0.34	-26 2.3	1.110	2.050	14.3	18.4
5 31	17 53.85	-19 21.9	1.767	2.745	7.0	20.9	5 31	17 54.28	-26 4.5	1.040	2.025	9.5	18.0
6 10	17 45.03	-19 20.3	1.714	2.723	3.1	20.7	6 10	17 45.43	-26 1.5	0.991	2.001	4.0	17.7
6 20	17 35.29	-19 20.6	1.688	2.701	2.3	20.6	6 20	17 35.02	-25 51.4	0.964	1.978	2.6	17.5
6 30	17 25.72	-19 23.0	1.690	2.679	6.3	20.8	6 30	17 24.83	-25 34.5	0.959	1.956	8.5	17.8
7 10	17 17.38	-19 28.1	1.716	2.656	10.4	21.0	7 10	17 16.65	-25 13.8	0.976	1.934	14.2	18.0
7 20	17 11.09	-19 36.5	1.766	2.633	14.1	21.1	7 20	17 11.75	-24 53.1	1.011	1.914	19.3	18.2
157105	2004 <i>JV</i> ₃₃		6 16.2 311°80	2°3/16.3	18		346863	2009 <i>EA</i> ₃₀		6 16.2 222°35	2°2/16.2	17	
5 11	18 3.89	-17 27.3	1.121	1.997	19.3	19.3	5 11	18 6.40	-28 16.7	2.209	3.043	12.6	20.7
5 21	18 1.20	-17 41.8	1.034	1.974	15.2	19.0	5 21	18 1.26	-28 48.6	2.124	3.039	9.8	20.5
5 31	17 54.93	-18 5.8	0.966	1.950	10.1	18.6	5 31	17 53.92	-29 17.9	2.062	3.035	6.5	20.3
6 10	17 45.71	-18 39.6	0.918	1.927	4.6	18.2	6 10	17 45.01	-29 42.0	2.026	3.032	3.2	20.1
6 20	17 34.78	-19 21.4	0.892	1.905	3.3	18.1	6 20	17 35.38	-29 58.9	2.018	3.028	2.6	20.0
6 30	17 23.91	-20 9.0	0.888	1.883	9.2	18.3	6 30	17 26.03	-30 7.9	2.037	3.024	5.7	20.2
7 10	17 14.98	-21 0.0	0.905	1.863	15.1	18.6	7 10	17 17.95	-30 10.1	2.083	3.019	9.1	20.4
7 20	17 9.38	-21 53.0	0.940	1.843	20.4	18.8	7 20	17 11.85	-30 7.4	2.153	3.015	12.1	20.6
219625	2001 <i>TY</i> ₂₀₅		6 16.2 229°26	3°9/16.2	18		71261	2000 <i>AC</i> ₂₃		6 16.2 245°27	0°3/16.2	18	
5 11	18 6.69	-11 45.3	2.087	2.912	13.6	20.6	5 11	18 6.16	-22 42.7	2.030	2.870	13.3	19.3
5 21	18 1.42	-11 42.1	1.995	2.902	10.7	20.4	5 21	18 1.20	-23 6.5	1.943	2.864	10.2	19.1
5 31	17 54.00	-11 46.8	1.925	2.891	7.5	20.2	5 31	17 53.94	-23 31.6	1.878	2.857	6.6	18.8
6 10	17 45.04	-12 0.3	1.881	2.879	4.7	20.0	6 10	17 45.04	-23 56.2	1.840	2.850	2.6	18.6
6 20	17 35.32	-12 22.8	1.865	2.866	4.2	19.9	6 20	17 35.35	-24 18.7	1.828	2.842	1.6	18.5
6 30	17 25.80	-12 53.7	1.876	2.853	6.9	20.1	6 30	17 25.93	-24 38.2	1.845	2.835	5.7	18.8
7 10	17 17.44	-13 32.0	1.913	2.840	10.3	20.2	7 10	17 17.78	-24 54.8	1.887	2.828	9.6	19.0
7 20	17 10.94	-14 16.1	1.973	2.826	13.4	20.4	7 20	17 11.68	-25 9.5	1.952	2.820	12.9	19.2
17037	1999 <i>FV</i> ₁₀		6 16.2 12°36	4°7/16.5	18		66798	1999 <i>TA</i> ₂₆₅		6 16.2 315°68	0°8/16.4	18	
5 11	18 9.29	-32 20.1	1.293	2.151	18.4	17.5	5 11	18 6.78	-28 46.8	1.596	2.448	15.8	18.7
5 21	18 4.88	-32 51.5	1.226	2.151	14.5	17.2	5 21	18 2.22	-28 1.2	1.508	2.434	12.2	18.5
5 31	17 56.88	-33 14.4	1.178	2.152	10.1	17.0	5 31	17 54.82	-27 5.2	1.441	2.420	8.0	18.2
6 10	17 46.28	-33 23.7	1.151	2.153	5.9	16.7	6 10	17 45.41	-25 58.8	1.397	2.407	3.3	17.9
6 20	17 34.58	-33 16.0	1.148	2.155	5.1	16.7	6 20	17 35.15	-24 43.7	1.380	2.394	2.0	17.7
6 30	17 23.61	-32 51.8	1.169	2.157	8.7	16.9	6 30	17 25.41	-23 24.4	1.389	2.382	6.9	18.0
7 10	17 15.01	-32 15.8	1.212	2.159	13.2	17.2	7 10	17 17.46	-22 6.4	1.423	2.370	11.5	18.2
7 20	17 9.76	-31 34.0	1.275	2.161	17.2	17.4	7 20	17 12.12	-20 55.1	1.479	2.359	15.6	18.5
333473	2004 <i>RF</i> ₂₁₁		6 16.2 339°27	3°4/15.2	16		501698	2014 <i>UE</i> ₇		6 16.2 242°53	1°5/16.1	17	
5 11	17 59.55	-21 56.7	1.154	2.038	18.4	19.5	5 11	18 8.31	-20 2.1	1.620	2.468	15.8	22.1
5 21	17 57.45	-20 35.5	1.074	2.018	14.3	19.2	5 21	18 3.34	-19 56.9	1.534	2.458	12.2	21.8
5 31	17 52.14	-19 6.3	1.013	2.000	9.4	18.9	5 31	17 55.57	-19 53.8	1.469	2.448	8.0	21.5
6 10	17 44.46	-17 32.8	0.974	1.983	4.6	18.5	6 10	17 45.74	-19 52.3	1.428	2.437	3.4	21.2
6 20	17 35.68	-16 1.2	0.957	1.968	4.5	18.5	6 20	17 34.92	-19 52.2	1.412	2.426	2.5	21.1
6 30	17 27.40	-14 38.8	0.963	1.954	9.5	18.7	6 30	17 24.43	-19 53.8	1.424	2.414	7.1	21.4
7 10	17 21.09	-13 31.8	0.989	1.942	14.7	18.9	7 10	17 15.54	-19 57.9	1.459	2.402	11.7	21.6
7 20	17 17.76	-12 43.5	1.034	1.932	19.4	19.2	7 20	17 9.16	-20 5.5	1.516	2.390	15.7	21.9
184909	2005 <i>UQ</i> ₃₅₃		6 16.2 307°70	5°4/16.4	18		129678	1998 <i>RQ</i> ₅₀		6 1			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
350180	2011 <i>UU</i> ₁₈₁		6 16.2 291°30		4.7/16.0	18	92117	1999 <i>XD</i> ₇₈		6 16.2 200°01		0.2/16.2	18
5 11	18 7.15	-33 54.3	2.081	2.911	13.5	21.2	5 11	18 3.24	-23 53.1	2.922	3.750	10.0	20.1
5 21	18 2.31	-34 48.8	1.988	2.895	10.7	21.0	5 21	17 58.25	-23 55.7	2.832	3.746	7.6	20.0
5 31	17 54.88	-35 38.4	1.917	2.879	7.8	20.8	5 31	17 51.70	-23 57.3	2.767	3.743	4.9	19.8
6 10	17 45.49	-36 18.6	1.871	2.863	5.3	20.6	6 10	17 44.11	-23 57.3	2.729	3.739	1.9	19.6
6 20	17 35.07	-36 45.6	1.851	2.848	5.0	20.5	6 20	17 36.06	-23 55.3	2.721	3.735	1.2	19.5
6 30	17 24.82	-36 58.0	1.858	2.832	7.3	20.6	6 30	17 28.25	-23 51.5	2.741	3.730	4.2	19.7
7 10	17 15.95	-36 56.7	1.890	2.816	10.4	20.8	7 10	17 21.32	-23 46.6	2.790	3.725	7.1	19.9
7 20	17 9.35	-36 45.1	1.945	2.801	13.5	21.0	7 20	17 15.79	-23 41.8	2.863	3.720	9.6	20.1
440328	2004 <i>TC</i> ₁₁₂		6 16.2 308°37		4.0/16.9	18	477732	2010 <i>TK</i> ₆₉		6 16.2 266°31		4.2/16.5	18
5 11	18 6.55	-35 23.4	2.059	2.887	13.6	20.7	5 11	18 6.31	-35 31.8	2.399	3.219	12.2	21.6
5 21	18 1.85	-35 24.1	1.950	2.857	10.9	20.4	5 21	18 1.22	-36 3.9	2.310	3.211	9.7	21.4
5 31	17 54.56	-35 14.6	1.863	2.827	7.8	20.2	5 31	17 53.92	-36 28.9	2.244	3.203	7.1	21.2
6 10	17 45.35	-34 51.8	1.801	2.797	4.9	19.9	6 10	17 45.05	-36 43.5	2.204	3.195	4.8	21.0
6 20	17 35.18	-34 14.1	1.764	2.767	4.2	19.8	6 20	17 35.46	-36 45.8	2.191	3.186	4.4	21.0
6 30	17 25.26	-33 22.5	1.755	2.738	6.8	19.9	6 30	17 26.17	-36 35.3	2.205	3.178	6.4	21.1
7 10	17 16.78	-32 20.5	1.772	2.708	10.3	20.1	7 10	17 18.14	-36 14.1	2.245	3.170	9.1	21.3
7 20	17 10.60	-31 13.2	1.811	2.679	13.8	20.2	7 20	17 12.11	-35 45.3	2.308	3.161	11.7	21.4
519183	2010 <i>OD</i> ₁₁₀		6 16.2 57°78		1.4/16.1	17	184661	2005 <i>SW</i> ₅₁		6 16.2 218°62		3.1/15.7	18
5 11	18 7.03	-19 50.0	1.437	2.295	16.9	21.3	5 11	18 2.34	-14 21.5	2.535	3.364	11.3	20.9
5 21	18 2.41	-19 51.3	1.371	2.301	13.0	21.1	5 21	17 57.69	-13 52.0	2.449	3.359	8.8	20.7
5 31	17 54.92	-19 55.7	1.326	2.307	8.4	20.8	5 31	17 51.40	-13 26.0	2.387	3.355	6.1	20.5
6 10	17 45.45	-20 2.6	1.303	2.313	3.5	20.5	6 10	17 44.00	-13 4.8	2.352	3.351	3.7	20.3
6 20	17 35.17	-20 11.2	1.306	2.320	2.5	20.5	6 20	17 36.14	-12 49.4	2.344	3.346	3.5	20.3
6 30	17 25.49	-20 21.5	1.334	2.326	7.2	20.8	6 30	17 28.54	-12 40.8	2.364	3.341	5.8	20.4
7 10	17 17.66	-20 33.8	1.386	2.333	11.8	21.1	7 10	17 21.90	-12 39.2	2.411	3.336	8.5	20.6
7 20	17 12.49	-20 48.7	1.458	2.340	15.7	21.3	7 20	17 16.73	-12 44.6	2.482	3.331	11.2	20.8
78332	2002 <i>PZ</i> ₈₄		6 16.2 266°93		3.5/15.9	18	24657	1987 <i>SP</i> ₁₁		6 16.2 290°18		2.1/16.1	18
5 11	18 4.38	-13 18.0	2.171	3.002	12.9	19.4	5 11	18 5.76	-18 58.5	1.532	2.388	16.1	19.2
5 21	17 59.66	-13 6.9	2.072	2.983	10.2	19.2	5 21	18 1.66	-18 49.0	1.439	2.367	12.6	18.9
5 31	17 52.91	-13 1.7	1.995	2.963	7.1	19.0	5 31	17 54.68	-18 42.3	1.367	2.347	8.3	18.6
6 10	17 44.65	-13 3.6	1.944	2.943	4.2	18.8	6 10	17 45.50	-18 38.8	1.317	2.326	3.8	18.3
6 20	17 35.63	-13 13.0	1.920	2.923	3.9	18.7	6 20	17 35.15	-18 38.7	1.293	2.305	2.9	18.2
6 30	17 26.76	-13 30.0	1.923	2.903	6.6	18.8	6 30	17 25.00	-18 42.4	1.294	2.284	7.6	18.4
7 10	17 18.94	-13 54.3	1.952	2.882	10.0	19.0	7 10	17 16.40	-18 50.5	1.318	2.264	12.4	18.6
7 20	17 12.87	-14 25.0	2.005	2.861	13.1	19.2	7 20	17 10.36	-19 3.6	1.363	2.243	16.7	18.8
371742	2007 <i>EQ</i> ₁₉₀		6 16.2 140°16		0.6/16.2	17	336241	2008 <i>SK</i> ₁₁₂		6 16.2 321°92		2.9/16.0	18
5 11	18 8.25	-25 7.9	1.899	2.739	14.1	21.8	5 11	18 2.26	-17 20.8	1.440	2.304	16.5	20.4
5 21	18 2.74	-25 7.2	1.826	2.746	10.8	21.6	5 21	17 59.05	-17 8.2	1.352	2.284	12.9	20.1
5 31	17 54.86	-25 4.0	1.775	2.753	6.9	21.4	5 31	17 53.02	-17 0.2	1.285	2.266	8.6	19.8
6 10	17 45.37	-24 57.1	1.749	2.759	2.8	21.1	6 10	17 44.85	-16 58.0	1.240	2.248	4.3	19.5
6 20	17 35.25	-24 46.1	1.751	2.765	1.7	21.0	6 20	17 35.57	-17 2.1	1.219	2.230	3.6	19.4
6 30	17 25.65	-24 31.7	1.780	2.770	5.9	21.3	6 30	17 26.55	-17 13.0	1.223	2.214	7.9	19.6
7 10	17 17.57	-24 15.8	1.834	2.775	9.8	21.6	7 10	17 19.11	-17 30.6	1.249	2.198	12.6	19.8
7 20	17 11.73	-24 0.6	1.912	2.780	13.1	21.8	7 20	17 14.22	-17 54.5	1.295	2.183	16.9	20.1
14796	1977 <i>XF</i> ₂		6 16.2 215°00		0.2/16.2	18	500182	2012 <i>FK</i> ₅₁		6 16.2 359°15		3.0/16.1	17
5 11	18 3.82	-23 7.4	2.724	3.554	10.6	18.7	5 11	18 5.01	-16 45.7	1.372	2.234	17.3	21.3
5 21	17 58.83	-23 22.9	2.633	3.549	8.1	18.5	5 21	18 1.04	-16 38.4	1.302	2.232	13.4	21.1
5 31	17 52.15	-23 38.5	2.567	3.543	5.2	18.3	5 31	17 54.18	-16 37.4	1.252	2.232	8.9	20.8
6 10	17 44.30	-23 53.1	2.528	3.537	2.0	18.1	6 10	17 45.24	-16 43.1	1.224	2.231	4.4	20.6
6 20	17 35.91	-24 5.9	2.517	3.531	1.3	18.0	6 20	17 35.40	-16 55.4	1.220	2.231	3.6	20.5
6 30	17 27.73	-24 16.7	2.536	3.525	4.5	18.2	6 30	17 26.06	-17 14.2	1.241	2.232	7.9	20.8
7 10	17 20.48	-24 25.6	2.582	3.518	7.5	18.4	7 10	17 18.52	-17 38.7	1.285	2.233	12.5	21.0
7 20	17 14.72	-24 33.5	2.652	3.511	10.2	18.6	7 20	17 13.66	-18 8.3	1.349	2.234	16.5	21.3
394618	2007 <i>VW</i> ₃₃₀		6 16.2 95°62		0.1/16.2	17	417601	2006 <i>VR</i> ₁₂₆		6 16.2 172°78		0.8/16.3	17
5 11	18 5.83	-23 33.6	2.408	3.240	11.8	22.0	5 11	18 9.54	-26 18.1	1.912	2.749	14.2	21.6
5 21	18 0.31	-23 39.5	2.345	3.261	8.9	21.8	5 21	18 3.78	-26 12.0	1.833	2.752	10.9	21.4
5 31	17 53.02	-23 44.5	2.305	3.282	5.7	21.6	5 31	17 55.58	-26 2.1	1.777	2.754	7.0	21.2
6 10	17 44.59	-23 47.7	2.293	3.303	2.2	21.4	6 10	17 45.70	-25 47.2	1.746	2.756	2.9	20.9
6 20	17 35.78	-23 48.6	2.309	3.323	1.4	21.4	6 20	17 35.15	-25 26.8	1.743	2.757	1.8	20.8
6 30	17 27.42	-23 47.6	2.353	3.343	4.8	21.7	6 30	17 25.10	-25 2.2	1.767	2.757	6.0	21.1
7 10	17 20.26	-23 45.4	2.425	3.362	7.9	21.9	7 10	17 16.60	-24 35.8	1.817	2.758	9.9	21.3
7 20	17 14.83	-23 43.3	2.521	3.382	10.6	22.1	7 20	17 10.39	-24 10.3	1.891	2.757	13.3	21.6
235359	2003 <i>US</i> ₃₄₃		6 16.2 279°96		3.7/15.9	17	242691	2005 <i>TV</i> ₆		6 16.2 211°06		2.1/15.8	18
5 11	18 3.95	-14 26.9	1.879	2.720	14.2	21.2	5 11	18 3.22	-18 24.0	2.477	3.310	11.4	20.4
5 21	17 59.50	-14 2.5	1.796	2.714	11.1	21.0	5 21	17 58.39	-17 50.7	2.392	3.308	8.8	20.2
5 31	17 52.84	-13 43.3	1.735	2.707	7.6	20.8	5 31	17 51.87	-17 18.1	2.331	3.305	5.8	20.0
6 10	17 44.62	-13 30.7	1.699	2.700	4.5	20.6	6 10	17 44.20	-16 47.3	2.296	3.302	2.9	19.8
6 20	17 35.71	-13 25.9	1.689	2.694	4.1	20.6	6 20	17 36.08	-16 19.4	2.290	3.299	2.6	19.8
6 30	17 27.12	-13 29.4	1.706	2.687	7.1	20.7	6 30	17 28.26	-15 55.7	2.312	3.296	5.4	19.9
7 10	17 19.82	-13 41.4	1.747	2.680	10.7	20.9	7 10	17 21.47	-15 37.4	2.361	3.292	8.4	20.1
7 20	17 14.52	-14 1.2	1.810	2.674	14.0	21.1	7 20	17 16.24	-15 25.1	2.434	3.289	11.2	20.3
480763	2016 <i>NQ</i> ₄₇		6 16.2 275°16		2.7/16.5	17	8162						

EPHEMERIDES

6 16.2

6 16.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
498514	2008 <i>DL</i> ₈₁		6 16.2 59°41'	1°0'/16.1	17		357312	2003 <i>ET</i> ₁₄		6 16.2 140°75'	3°4'/16.2	17	
5 11	18 7.53	-21 29.2	1.419	2.277	17.0	21.4	5 11	18 9.75	-15 1.0	1.507	2.352	16.9	20.7
5 21	18 2.70	-21 22.1	1.362	2.292	13.0	21.2	5 21	18 4.34	-14 56.4	1.439	2.359	13.1	20.5
5 31	17 55.05	-21 15.8	1.325	2.306	8.3	21.0	5 31	17 56.14	-14 59.1	1.391	2.366	8.8	20.3
6 10	17 45.51	-21 9.9	1.311	2.321	3.3	20.7	6 10	17 45.99	-15 9.6	1.368	2.372	4.7	20.1
6 20	17 35.33	-21 4.3	1.322	2.336	2.2	20.7	6 20	17 35.06	-15 27.6	1.370	2.378	3.9	20.0
6 30	17 25.89	-20 59.6	1.359	2.351	7.1	21.0	6 30	17 24.67	-15 52.4	1.397	2.384	7.7	20.3
7 10	17 18.38	-20 57.1	1.419	2.367	11.5	21.3	7 10	17 16.06	-16 23.1	1.449	2.389	12.0	20.5
7 20	17 13.55	-20 58.0	1.500	2.382	15.3	21.6	7 20	17 10.04	-16 58.4	1.523	2.393	15.8	20.8
370258	2002 <i>QA</i> ₁		6 16.2 289°42'	1°0'/16.3	17		398578	2011 <i>WX</i> ₄₇		6 16.2 116°50'	0°3'/16.3	17	
5 11	18 7.83	-26 13.8	1.547	2.400	16.1	21.8	5 11	18 4.84	-25 52.4	2.554	3.385	11.2	20.8
5 21	18 3.48	-26 9.0	1.446	2.373	12.6	21.5	5 21	17 59.55	-25 32.2	2.479	3.395	8.5	20.6
5 31	17 56.01	-26 0.1	1.365	2.345	8.3	21.2	5 31	17 52.56	-25 8.7	2.428	3.404	5.5	20.4
6 10	17 46.09	-25 45.1	1.308	2.318	3.5	20.8	6 10	17 44.48	-24 41.6	2.404	3.413	2.2	20.2
6 20	17 34.84	-25 23.0	1.276	2.290	2.2	20.7	6 20	17 36.02	-24 11.6	2.408	3.422	1.3	20.2
6 30	17 23.74	-24 54.6	1.269	2.262	7.4	20.9	6 30	17 27.98	-23 40.0	2.441	3.431	4.6	20.4
7 10	17 14.29	-24 23.1	1.286	2.233	12.5	21.1	7 10	17 21.06	-23 8.5	2.502	3.440	7.7	20.6
7 20	17 7.62	-23 52.4	1.324	2.205	17.0	21.3	7 20	17 15.77	-22 39.0	2.587	3.448	10.4	20.8
510786	2013 <i>AT</i> ₁₀₂		6 16.2 240°59'	5°9'/17.4	18		128609	2004 <i>QB</i> ₁₉		6 16.2 313°05'	3°6'/16.7	18	
5 11	18 11.69	-42 25.4	2.430	3.223	12.8	21.5	5 11	18 5.44	-33 57.3	2.198	3.027	12.8	19.5
5 21	18 5.42	-42 42.1	2.336	3.211	10.7	21.3	5 21	18 0.66	-34 13.0	2.112	3.020	10.1	19.3
5 31	17 56.65	-42 46.3	2.264	3.199	8.4	21.2	5 31	17 53.62	-34 21.1	2.048	3.013	7.2	19.1
6 10	17 46.14	-42 34.1	2.217	3.187	6.5	21.0	6 10	17 44.99	-34 19.1	2.010	3.007	4.4	18.9
6 20	17 34.91	-42 3.3	2.196	3.174	6.0	21.0	6 20	17 35.67	-34 5.6	1.998	3.000	3.9	18.8
6 30	17 24.15	-41 14.7	2.203	3.161	7.4	21.1	6 30	17 26.74	-33 40.8	2.013	2.994	6.2	19.0
7 10	17 14.95	-40 11.9	2.236	3.148	9.7	21.2	7 10	17 19.16	-33 7.5	2.054	2.988	9.3	19.2
7 20	17 8.06	-39 0.1	2.293	3.134	12.2	21.3	7 20	17 13.66	-32 29.0	2.118	2.982	12.2	19.3
477692	2010 <i>RR</i> ₉₆		6 16.2 259°89'	5°0'/16.4	18		173802	2001 <i>SN</i> ₂₂₈		6 16.2 217°81'	5°2'/16.3	18	
5 11	18 7.31	-37 53.9	2.500	3.311	12.0	21.6	5 11	18 8.70	-37 11.5	2.266	3.081	13.0	20.4
5 21	18 2.04	-38 36.0	2.409	3.300	9.8	21.4	5 21	18 3.26	-38 1.3	2.184	3.079	10.5	20.2
5 31	17 54.50	-39 10.3	2.341	3.290	7.4	21.3	5 31	17 55.36	-38 43.3	2.124	3.076	7.8	20.0
6 10	17 45.33	-39 33.2	2.298	3.279	5.5	21.1	6 10	17 45.70	-39 13.2	2.090	3.073	5.7	19.9
6 20	17 35.38	-39 42.1	2.282	3.268	5.2	21.1	6 20	17 35.22	-39 28.0	2.082	3.070	5.4	19.9
6 30	17 25.69	-39 36.3	2.293	3.256	6.8	21.2	6 30	17 25.07	-39 26.9	2.102	3.067	7.2	20.0
7 10	17 17.24	-39 17.5	2.330	3.245	9.2	21.3	7 10	17 16.35	-39 11.9	2.146	3.064	9.8	20.1
7 20	17 10.80	-38 49.2	2.390	3.234	11.7	21.5	7 20	17 9.84	-38 46.8	2.214	3.060	12.4	20.3
43169	1999 <i>XE</i> ₁₆₇		6 16.2 257°20'	0°9'/16.4	18		21765	1999 <i>RU</i> ₂₀₆		6 16.2 233°93'	2°9'/16.7	18	
5 11	18 7.75	-27 35.0	2.103	2.938	13.1	18.5	5 11	18 9.59	-32 50.8	2.302	3.123	12.6	18.7
5 21	18 2.40	-27 15.0	2.005	2.922	10.2	18.3	5 21	18 3.71	-32 51.2	2.205	3.110	9.9	18.5
5 31	17 54.73	-26 49.3	1.930	2.906	6.6	18.0	5 31	17 55.54	-32 43.9	2.131	3.097	6.8	18.3
6 10	17 45.42	-26 17.0	1.880	2.889	2.8	17.8	6 10	17 45.76	-32 26.6	2.083	3.084	3.9	18.1
6 20	17 35.35	-25 38.3	1.858	2.872	1.8	17.7	6 20	17 35.26	-31 58.3	2.063	3.070	3.2	18.0
6 30	17 25.61	-24 54.8	1.865	2.855	5.7	17.9	6 30	17 25.11	-31 20.0	2.071	3.055	5.8	18.2
7 10	17 17.21	-24 9.6	1.897	2.837	9.6	18.1	7 10	17 16.31	-30 34.6	2.107	3.040	9.1	18.3
7 20	17 10.89	-23 26.0	1.954	2.819	13.0	18.3	7 20	17 9.58	-29 45.9	2.166	3.024	12.2	18.5
459991	2014 <i>OE</i> ₃₉		6 16.2 195°88'	0°1'/16.2	18		204757	2006 <i>JL</i> ₃₇		6 16.2 344°49'	1°3'/16.2	17	
5 11	18 1.68	-22 37.2	2.816	3.649	10.2	21.7	5 11	18 5.29	-24 46.9	1.661	2.515	15.2	20.4
5 21	17 57.13	-22 42.9	2.732	3.649	7.8	21.5	5 21	18 1.05	-25 16.5	1.584	2.511	11.7	20.2
5 31	17 51.03	-22 48.5	2.671	3.648	5.0	21.4	5 31	17 54.14	-25 46.2	1.527	2.507	7.6	20.0
6 10	17 43.90	-22 53.5	2.638	3.648	1.9	21.1	6 10	17 45.28	-26 13.4	1.495	2.504	3.2	19.7
6 20	17 36.32	-22 57.4	2.633	3.647	1.2	21.1	6 20	17 35.54	-26 35.9	1.488	2.502	2.2	19.6
6 30	17 28.99	-23 0.4	2.657	3.647	4.3	21.3	6 30	17 26.17	-26 52.5	1.507	2.499	6.6	19.9
7 10	17 22.54	-23 2.8	2.708	3.646	7.2	21.5	7 10	17 18.38	-27 3.9	1.551	2.497	10.8	20.1
7 20	17 17.50	-23 5.4	2.784	3.645	9.7	21.7	7 20	17 13.04	-27 11.7	1.616	2.496	14.6	20.3
322035	2010 <i>VK</i> ₃₄		6 16.2 311°71'	1°4'/16.2	18		290341	2005 <i>SV</i> ₂₃₈		6 16.2 230°33'	0°5'/16.2	18	
5 11	18 3.39	-26 3.6	2.085	2.929	12.9	20.1	5 11	18 3.78	-21 50.8	2.659	3.490	10.8	22.1
5 21	17 59.20	-26 26.1	1.990	2.912	10.0	19.9	5 21	17 58.86	-21 46.5	2.565	3.481	8.3	21.9
5 31	17 52.77	-26 47.5	1.917	2.895	6.5	19.6	5 31	17 52.23	-21 42.0	2.495	3.471	5.3	21.7
6 10	17 44.69	-27 5.8	1.869	2.878	2.9	19.4	6 10	17 44.42	-21 37.1	2.452	3.461	2.1	21.5
6 20	17 35.79	-27 19.4	1.849	2.861	2.1	19.3	6 20	17 36.09	-21 31.7	2.437	3.451	1.4	21.4
6 30	17 27.08	-27 27.7	1.855	2.845	5.7	19.5	6 30	17 27.97	-21 26.1	2.452	3.440	4.7	21.6
7 10	17 19.57	-27 31.3	1.887	2.829	9.5	19.7	7 10	17 20.80	-21 21.1	2.493	3.430	7.8	21.8
7 20	17 14.03	-27 31.8	1.942	2.814	12.8	19.8	7 20	17 15.13	-21 17.5	2.559	3.418	10.5	22.0
351981	2006 <i>UR</i> ₉₈		6 16.2 144°46'	2°5'/15.9	17		58998	1998 <i>SK</i> ₂₁		6 16.2 348°64'	9°6'/14.8	18	
5 11	18 3.26	-14 59.4	2.853	3.675	10.4	22.4	5 11	18 0.41	-4 37.3	1.494	2.335	17.2	18.4
5 21	17 58.13	-14 41.6	2.777	3.685	8.0	22.2	5 21	17 57.21	-3 17.8	1.425	2.328	14.4	18.2
5 31	17 51.57	-14 27.0	2.727	3.695	5.4	22.1	5 31	17 51.59	-2 11.0	1.376	2.323	11.7	18.0
6 10	17 44.08	-14 16.4	2.703	3.704	3.1	21.9	6 10	17 44.26	-1 23.2	1.348	2.317	9.8	17.9
6 20	17 36.24	-14 10.3	2.709	3.713	2.8	21.9	6 20	17 36.19	-0 58.7	1.343	2.313	9.8	17.9
6 30	17 28.69	-14 9.0	2.743	3.722	4.9	22.1	6 30	17 28.53	-0 59.8	1.361	2.310	11.8	18.0
7 10	17 22.05	-14 12.7	2.805	3.730	7.5	22.2	7 10	17 22.33	-1 25.0	1.399	2.307	14.6	18.2
7 20	17 16.76	-14 21.3	2.891	3.737	9.8	22.4	7 20	17 18.37	-2 10.5	1.457	2.306	17.5	18.4
440927	2006 <i>XY</i> ₆		6 16.2 73°86'	0°3'/16.3	18		65244	2002 <i>ED</i> ₁					

EPHEMERIDES

6 16.2

6 16.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
75426	1999 XJ ₁₂₃		6 16.2 62°37'	5°0/16.7	18		166005	2002 AL ₇₂		6 16.2 85°05'	1°9/16.5	17	
5 11	18 10.50	-33 50.3	1.475	2.320	17.2	18.4	5 11	18 10.48	-28 12.5	1.383	2.238	17.6	20.2
5 21	18 5.45	-34 22.6	1.408	2.325	13.6	18.2	5 21	18 5.32	-28 13.1	1.319	2.246	13.6	19.9
5 31	17 57.12	-34 45.4	1.362	2.331	9.6	17.9	5 31	17 56.96	-28 7.6	1.275	2.254	8.9	19.7
6 10	17 46.46	-34 54.0	1.338	2.337	6.0	17.7	6 10	17 46.39	-27 53.7	1.254	2.262	4.0	19.4
6 20	17 34.88	-34 45.4	1.339	2.342	5.2	17.7	6 20	17 35.02	-27 30.5	1.257	2.270	2.7	19.4
6 30	17 24.03	-34 20.2	1.365	2.348	8.3	17.9	6 30	17 24.43	-26 59.9	1.286	2.278	7.4	19.7
7 10	17 15.37	-33 42.8	1.414	2.354	12.2	18.1	7 10	17 16.01	-26 25.7	1.338	2.286	12.0	20.0
7 20	17 9.78	-32 59.1	1.484	2.361	15.8	18.4	7 20	17 10.60	-25 52.3	1.411	2.294	16.1	20.2
36654	2000 QD ₂₀₂		6 16.2 340°53'	0°7/16.2	18		146797	2001 YZ ₄₂		6 16.2 157°99'	0°6/16.3	18	
5 11	18 4.68	-21 9.5	1.493	2.353	16.2	18.9	5 11	18 4.99	-24 55.6	2.546	3.377	11.2	21.5
5 21	18 0.76	-21 16.7	1.417	2.348	12.5	18.7	5 21	17 59.81	-25 3.5	2.466	3.381	8.6	21.3
5 31	17 54.03	-21 26.2	1.361	2.343	8.1	18.4	5 31	17 52.85	-25 9.9	2.409	3.385	5.5	21.1
6 10	17 45.27	-21 36.9	1.328	2.339	3.2	18.1	6 10	17 44.69	-25 13.8	2.379	3.389	2.2	20.9
6 20	17 35.58	-21 47.9	1.321	2.335	2.1	18.0	6 20	17 36.04	-25 14.5	2.378	3.392	1.4	20.8
6 30	17 26.32	-21 58.8	1.338	2.331	7.0	18.3	6 30	17 27.71	-25 12.1	2.406	3.395	4.7	21.1
7 10	17 18.74	-22 10.1	1.379	2.329	11.6	18.5	7 10	17 20.45	-25 7.7	2.460	3.398	7.8	21.3
7 20	17 13.73	-22 22.6	1.441	2.326	15.7	18.8	7 20	17 14.83	-25 2.4	2.540	3.400	10.5	21.4
347790	2002 FO ₂₄		6 16.2 35°09'	1°6/16.0	18		68750	2002 EM ₆₈		6 16.2 294°35'	7°4/15.4	18	
5 11	18 6.72	-23 44.0	1.878	2.722	14.1	19.6	5 11	18 4.60	-9 46.8	1.395	2.246	17.7	19.3
5 21	18 1.77	-24 50.4	1.812	2.734	10.8	19.5	5 21	18 0.85	-8 51.8	1.311	2.228	14.4	19.0
5 31	17 54.41	-25 58.9	1.768	2.746	7.0	19.2	5 31	17 54.22	-8 5.8	1.246	2.211	10.8	18.8
6 10	17 45.36	-27 5.7	1.750	2.758	3.0	19.0	6 10	17 45.43	-7 33.4	1.204	2.194	7.9	18.6
6 20	17 35.56	-28 6.8	1.759	2.771	2.3	19.0	6 20	17 35.53	-7 18.5	1.184	2.177	7.7	18.5
6 30	17 26.15	-28 59.7	1.796	2.785	6.1	19.3	6 30	17 25.90	-7 23.4	1.188	2.160	10.7	18.6
7 10	17 18.19	-29 43.7	1.859	2.799	9.8	19.5	7 10	17 17.87	-7 47.6	1.214	2.143	14.7	18.8
7 20	17 12.44	-30 19.7	1.945	2.813	13.0	19.8	7 20	17 12.42	-8 28.5	1.258	2.127	18.6	19.0
17710	1997 WT ₂		6 16.2 185°88'	1°1/16.2	18		206749	2004 BX ₁₄₈		6 16.2 210°81'	0°9/16.3	18	
5 11	18 10.47	-24 3.4	1.602	2.448	16.0	19.2	5 11	18 5.87	-25 22.9	2.124	2.962	12.9	20.9
5 21	18 5.11	-24 37.5	1.525	2.448	12.3	19.0	5 21	18 0.89	-25 34.4	2.041	2.961	9.9	20.6
5 31	17 56.81	-25 12.6	1.469	2.448	8.0	18.7	5 31	17 53.75	-25 44.3	1.981	2.959	6.4	20.4
6 10	17 46.37	-25 45.5	1.438	2.448	3.3	18.5	6 10	17 45.10	-25 51.0	1.947	2.957	2.7	20.2
6 20	17 34.94	-26 13.4	1.433	2.447	2.2	18.4	6 20	17 35.79	-25 53.4	1.941	2.954	1.7	20.1
6 30	17 23.93	-26 34.7	1.455	2.445	6.9	18.7	6 30	17 26.82	-25 51.8	1.962	2.952	5.5	20.4
7 10	17 14.67	-26 50.1	1.501	2.444	11.4	18.9	7 10	17 19.12	-25 47.1	2.009	2.950	9.1	20.6
7 20	17 8.10	-27 1.5	1.569	2.442	15.3	19.2	7 20	17 13.40	-25 41.0	2.079	2.947	12.3	20.8
137841	2000 AN ₃₅		6 16.2 143°58'	0°2/16.2	17		505817	2015 BU ₄₃₆		6 16.2 210°58'	0°7/16.3	17	
5 11	18 9.04	-22 17.3	1.766	2.608	14.9	20.6	5 11	18 9.19	-25 7.2	1.986	2.822	13.8	23.0
5 21	18 3.56	-22 24.9	1.693	2.615	11.4	20.4	5 21	18 3.61	-25 15.4	1.898	2.816	10.6	22.8
5 31	17 55.55	-22 33.0	1.643	2.621	7.3	20.2	5 31	17 55.61	-25 21.7	1.833	2.810	6.9	22.6
6 10	17 45.79	-22 40.2	1.617	2.627	2.9	19.9	6 10	17 45.86	-25 24.5	1.794	2.803	2.8	22.3
6 20	17 35.33	-22 45.7	1.618	2.633	1.8	19.9	6 20	17 35.32	-25 22.8	1.782	2.796	1.8	22.2
6 30	17 25.36	-22 49.5	1.647	2.638	6.2	20.2	6 30	17 25.12	-25 16.6	1.798	2.788	5.9	22.5
7 10	17 16.98	-22 52.4	1.700	2.642	10.3	20.4	7 10	17 16.33	-25 7.5	1.840	2.780	9.8	22.7
7 20	17 10.96	-22 55.8	1.777	2.647	13.9	20.7	7 20	17 9.72	-24 57.6	1.905	2.771	13.3	22.9
49030	1998 QL ₁₀₃		6 16.2 100°60'	0°2/16.2	18		349864	2009 DQ ₅₀		6 16.2 351°46'	6°5/16.7	18	
5 11	18 10.17	-22 20.0	1.341	2.199	17.9	18.7	5 11	18 7.77	-39 2.7	1.878	2.702	14.9	20.1
5 21	18 5.16	-22 40.9	1.276	2.206	13.7	18.4	5 21	18 3.05	-39 48.1	1.801	2.699	12.2	19.9
5 31	17 56.93	-23 3.8	1.231	2.212	8.8	18.2	5 31	17 55.48	-40 22.7	1.746	2.697	9.3	19.7
6 10	17 46.41	-23 26.1	1.208	2.219	3.5	17.9	6 10	17 45.85	-40 41.4	1.715	2.695	7.0	19.5
6 20	17 34.95	-23 45.6	1.211	2.225	2.1	17.8	6 20	17 35.33	-40 41.0	1.708	2.694	6.6	19.5
6 30	17 24.13	-24 1.4	1.238	2.232	7.5	18.1	6 30	17 25.30	-40 21.3	1.726	2.692	8.4	19.6
7 10	17 15.39	-24 14.2	1.289	2.238	12.4	18.4	7 10	17 17.05	-39 45.6	1.769	2.692	11.2	19.8
7 20	17 9.65	-24 25.7	1.361	2.244	16.5	18.7	7 20	17 11.43	-38 59.3	1.833	2.691	14.1	20.0
335582	2006 DJ ₂₉		6 16.2 191°23'	0°7/16.2	18		17995	Jolinefan		6 16.2 143°14'	4°6/15.9	18	
5 11	18 6.78	-21 1.5	2.037	2.875	13.4	21.2	5 11	18 7.89	-13 56.5	1.539	2.385	16.6	18.3
5 21	18 1.59	-21 6.6	1.955	2.874	10.2	21.0	5 21	18 2.86	-13 21.2	1.470	2.390	13.0	18.1
5 31	17 54.20	-21 13.1	1.896	2.873	6.6	20.8	5 31	17 55.19	-12 52.2	1.422	2.394	9.0	17.9
6 10	17 45.26	-21 20.1	1.862	2.872	2.7	20.5	6 10	17 45.69	-12 31.8	1.397	2.397	5.5	17.7
6 20	17 35.65	-21 26.9	1.856	2.870	1.7	20.4	6 20	17 35.47	-12 21.5	1.398	2.401	5.1	17.7
6 30	17 26.37	-21 33.4	1.878	2.868	5.7	20.7	6 30	17 25.78	-12 22.5	1.424	2.404	8.3	17.8
7 10	17 18.40	-21 40.3	1.926	2.866	9.5	20.9	7 10	17 17.77	-12 34.4	1.473	2.408	12.2	18.1
7 20	17 12.44	-21 48.2	1.997	2.863	12.8	21.1	7 20	17 12.22	-12 56.2	1.544	2.410	15.8	18.3
61502	2000 QM ₅₃		6 16.2 303°86'	6°0/16.7	18		216846	2006 YD ₇		6 16.2 132°51'	3°6/16.1	18	
5 11	18 7.71	-38 50.6	2.002	2.823	14.2	19.0	5 11	18 3.05	-11 48.4	2.383	3.209	12.1	20.4
5 21	18 2.94	-39 26.6	1.912	2.808	11.6	18.8	5 21	17 58.33	-11 37.5	2.307	3.214	9.5	20.3
5 31	17 55.40	-39 52.2	1.842	2.793	8.9	18.6	5 31	17 51.90	-11 33.1	2.254	3.218	6.7	20.1
6 10	17 45.82	-40 3.0	1.796	2.778	6.6	18.4	6 10	17 44.34	-11 36.1	2.226	3.222	4.2	20.0
6 20	17 35.27	-39 55.7	1.776	2.764	6.2	18.3	6 20	17 36.30	-11 46.9	2.226	3.226	3.9	19.9
6 30	17 25.08	-39 30.0	1.781	2.749	8.1	18.4	6 30	17 28.57	-12 5.3	2.254	3.230	6.1	20.1
7 10	17 16.49	-38 49.0	1.811	2.735	10.9	18.6	7 10	17 21.85	-12 30.6	2.308	3.234	8.8	20.3
7 20	17 10.42	-37 57.8	1.863	2.721	13.9	18.7	7 20	17 16.70	-13 1.8	2.386	3.238	11.5	20.4
296445	2009 HQ ₅₇		6 16.2 330°54'	5°3/15.6	17		385898	2006 SD ₂₇₅		6 16.2 189°86'	3°0/16.4	17	
5 11	18 3.64												

EPHEMERIDES

6 16.2

6 16.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
406329	2007 <i>QQ</i> ₁₇		6 16.2 258°52	3°3/16.0	18		289226	2004 <i>XX</i> ₆₀		6 16.2 155°73	0°6/16.2	18	
5 11	18 8.27	-15 59.1	1.617	2.462	16.0	21.8	5 11	18 6.46	-20 52.1	2.046	2.884	13.3	21.0
5 21	18 3.44	-15 43.3	1.523	2.444	12.5	21.5	5 21	18 1.34	-21 3.3	1.968	2.887	10.2	20.8
5 31	17 55.82	-15 32.4	1.451	2.426	8.5	21.2	5 31	17 54.05	-21 16.3	1.913	2.890	6.6	20.6
6 10	17 46.06	-15 27.5	1.402	2.407	4.5	20.9	6 10	17 45.27	-21 30.0	1.883	2.893	2.6	20.4
6 20	17 35.19	-15 29.4	1.379	2.387	3.9	20.8	6 20	17 35.84	-21 43.5	1.881	2.895	1.7	20.3
6 30	17 24.51	-15 38.5	1.381	2.367	7.9	21.0	6 30	17 26.77	-21 56.5	1.907	2.897	5.6	20.6
7 10	17 15.32	-15 55.0	1.408	2.347	12.3	21.2	7 10	17 19.00	-22 9.2	1.959	2.899	9.3	20.8
7 20	17 8.58	-16 18.4	1.457	2.326	16.4	21.4	7 20	17 13.21	-22 22.2	2.034	2.901	12.5	21.0
410177	2007 <i>QG</i> ₁₀		6 16.2 265°20	0°1/16.2	17		393086	2013 <i>AD</i> ₁₀₄		6 16.2 325°82	5°3/16.9	18	
5 11	18 9.65	-23 30.8	1.600	2.448	15.9	21.8	5 11	18 8.22	-38 5.5	2.138	2.956	13.5	20.9
5 21	18 4.72	-23 28.7	1.502	2.426	12.4	21.5	5 21	18 2.99	-38 35.7	2.058	2.954	11.0	20.7
5 31	17 56.77	-23 25.5	1.425	2.404	8.1	21.2	5 31	17 55.25	-38 56.0	2.001	2.953	8.2	20.5
6 10	17 46.48	-23 19.9	1.372	2.382	3.2	20.9	6 10	17 45.76	-39 2.6	1.968	2.952	5.9	20.4
6 20	17 34.93	-23 10.8	1.344	2.359	2.0	20.7	6 20	17 35.55	-38 53.0	1.961	2.951	5.4	20.4
6 30	17 23.56	-22 58.8	1.343	2.335	7.2	21.0	6 30	17 25.79	-38 27.8	1.981	2.950	7.2	20.5
7 10	17 13.79	-22 45.8	1.366	2.311	12.1	21.2	7 10	17 17.59	-37 49.8	2.025	2.949	10.0	20.6
7 20	17 6.70	-22 34.4	1.411	2.286	16.5	21.4	7 20	17 11.71	-37 3.6	2.093	2.948	12.7	20.8
172464	2003 <i>SQ</i> ₁₀		6 16.2 150°34	0°6/16.2	17 R		16155	Buddy		6 16.2 187°21	1°4/16.2	18 R	
5 11	18 10.39	-22 22.0	1.886	2.722	14.4	21.8	5 11	18 6.00	-18 46.8	2.310	3.142	12.2	18.8
5 21	18 4.38	-22 14.9	1.813	2.732	11.0	21.6	5 21	18 0.74	-18 46.8	2.227	3.142	9.4	18.6
5 31	17 55.99	-22 7.2	1.763	2.740	7.1	21.3	5 31	17 53.56	-18 49.1	2.166	3.141	6.1	18.4
6 10	17 45.98	-21 58.3	1.738	2.748	2.8	21.1	6 10	17 45.06	-18 53.4	2.132	3.140	2.7	18.2
6 20	17 35.36	-21 47.9	1.741	2.755	1.8	21.0	6 20	17 35.98	-18 59.7	2.126	3.138	2.0	18.2
6 30	17 25.26	-21 36.9	1.772	2.762	6.0	21.3	6 30	17 27.19	-19 7.7	2.148	3.136	5.3	18.4
7 10	17 16.71	-21 26.8	1.829	2.768	9.9	21.6	7 10	17 19.51	-19 17.8	2.198	3.133	8.7	18.6
7 20	17 10.41	-21 19.0	1.909	2.773	13.3	21.8	7 20	17 13.58	-19 30.1	2.271	3.130	11.7	18.8
367096	2006 <i>QK</i> ₁₈₇		6 16.2 282°20	0°3/16.2	17		221268	2005 <i>UT</i> ₃₁₇		6 16.2 145°83	4°7/16.3	17	
5 11	18 7.66	-24 24.1	1.530	2.384	16.2	21.0	5 11	18 10.73	-33 14.6	1.808	2.641	15.0	20.6
5 21	18 3.19	-24 3.0	1.439	2.367	12.6	20.7	5 21	18 5.26	-34 8.4	1.734	2.644	11.9	20.4
5 31	17 55.74	-23 38.0	1.368	2.349	8.2	20.4	5 31	17 56.91	-34 56.0	1.682	2.647	8.5	20.2
6 10	17 46.05	-23 8.5	1.321	2.331	3.3	20.1	6 10	17 46.48	-35 32.5	1.654	2.649	5.5	20.1
6 20	17 35.26	-22 34.9	1.299	2.314	2.0	19.9	6 20	17 35.10	-35 54.0	1.652	2.652	5.0	20.0
6 30	17 24.80	-21 59.4	1.303	2.296	7.3	20.2	6 30	17 24.18	-35 59.6	1.677	2.654	7.6	20.2
7 10	17 16.05	-21 25.2	1.330	2.278	12.2	20.4	7 10	17 15.01	-35 51.4	1.726	2.657	11.0	20.4
7 20	17 10.00	-20 55.5	1.379	2.260	16.5	20.7	7 20	17 8.49	-35 33.5	1.798	2.659	14.2	20.6
402317	2005 <i>TR</i> ₁₂₅		6 16.2 245°03	0°7/16.3	16		522287	2016 <i>BD</i> ₉₇		6 16.2 129°11	4°4/15.9	16	
5 11	18 10.96	-24 35.5	1.511	2.361	16.6	22.9	5 11	18 8.61	-14 58.8	1.414	2.265	17.5	22.3
5 21	18 5.83	-24 42.7	1.422	2.347	12.9	22.6	5 21	18 3.64	-14 24.8	1.347	2.270	13.6	22.1
5 31	17 57.52	-24 48.5	1.354	2.334	8.4	22.3	5 31	17 55.82	-13 56.7	1.301	2.275	9.3	21.9
6 10	17 46.78	-24 50.9	1.310	2.319	3.4	21.9	6 10	17 46.02	-13 36.7	1.277	2.280	5.4	21.7
6 20	17 34.82	-24 48.1	1.290	2.305	2.1	21.8	6 20	17 35.43	-13 26.3	1.279	2.285	4.9	21.6
6 30	17 23.16	-24 40.2	1.297	2.289	7.4	22.1	6 30	17 25.44	-13 26.7	1.305	2.289	8.5	21.9
7 10	17 13.31	-24 29.2	1.328	2.273	12.4	22.3	7 10	17 17.28	-13 37.6	1.354	2.293	12.7	22.1
7 20	17 6.33	-24 18.2	1.380	2.257	16.7	22.6	7 20	17 11.79	-13 58.2	1.424	2.297	16.6	22.4
493633	2015 <i>PQ</i> ₉₅		6 16.2 304°02	2°0/16.1	18		513570	2010 <i>VY</i> ₁₂		6 16.2 265°87	1°2/16.2	18	
5 11	18 2.68	-17 40.9	2.127	2.969	12.8	20.8	5 11	18 5.38	-25 25.4	2.574	3.403	11.2	21.6
5 21	17 58.45	-17 34.7	2.038	2.958	9.9	20.5	5 21	18 0.38	-25 55.3	2.470	3.384	8.6	21.4
5 31	17 52.21	-17 31.6	1.972	2.948	6.5	20.3	5 31	17 53.44	-26 24.9	2.390	3.365	5.6	21.2
6 10	17 44.55	-17 32.1	1.931	2.937	3.1	20.1	6 10	17 45.07	-26 52.5	2.337	3.345	2.5	20.9
6 20	17 36.23	-17 36.1	1.916	2.927	2.5	20.0	6 20	17 35.95	-27 16.4	2.312	3.325	1.8	20.8
6 30	17 28.15	-17 43.8	1.929	2.917	5.8	20.2	6 30	17 26.93	-27 35.5	2.317	3.305	5.0	21.0
7 10	17 21.19	-17 55.5	1.968	2.907	9.3	20.4	7 10	17 18.85	-27 50.1	2.348	3.284	8.2	21.2
7 20	17 16.00	-18 11.0	2.030	2.898	12.5	20.6	7 20	17 12.40	-28 1.1	2.404	3.263	11.1	21.4
424149	2007 <i>GR</i> ₂₃		6 16.2 61°05	7°4/15.2	17		474046	2016 <i>GV</i> ₂₃₈		6 16.2 79°63	0°2/16.2	17	
5 11	18 5.81	- 8 51.9	1.569	2.408	16.6	20.3	5 11	18 9.29	-21 42.0	1.528	2.379	16.4	21.5
5 21	18 0.94	- 7 33.5	1.518	2.426	13.4	20.1	5 21	18 4.10	-22 14.1	1.465	2.392	12.5	21.3
5 31	17 53.74	- 6 25.2	1.488	2.445	10.1	20.0	5 31	17 56.10	-22 48.9	1.423	2.404	8.0	21.0
6 10	17 45.08	- 5 31.8	1.482	2.464	7.7	19.9	6 10	17 46.12	-23 23.9	1.405	2.416	3.1	20.8
6 20	17 35.98	- 4 56.6	1.500	2.483	7.7	19.9	6 20	17 35.37	-23 56.2	1.413	2.428	1.9	20.7
6 30	17 27.55	- 4 41.2	1.542	2.502	9.8	20.1	6 30	17 25.20	-24 24.6	1.447	2.440	6.7	21.0
7 10	17 20.74	- 4 44.8	1.608	2.521	12.8	20.3	7 10	17 16.86	-24 48.9	1.506	2.452	11.1	21.3
7 20	17 16.16	- 5 4.7	1.694	2.540	15.6	20.5	7 20	17 11.16	-25 10.4	1.586	2.464	14.9	21.6
354343	2003 <i>FO</i> ₉₀		6 16.2 42°69	3°1/16.7	17		260437	2004 <i>XO</i> ₁₂₈		6 16.3 119°09	1°3/16.1	17	
5 11	18 9.45	-30 17.0	1.061	1.933	20.5	19.3	5 11	18 9.27	-22 15.6	1.479	2.332	16.7	20.4
5 21	18 5.16	-30 19.3	1.014	1.949	15.8	19.0	5 21	18 4.11	-21 44.1	1.410	2.337	12.8	20.1
5 31	17 57.08	-30 12.0	0.984	1.966	10.5	18.8	5 31	17 56.09	-21 10.8	1.361	2.342	8.3	19.9
6 10	17 46.49	-29 52.1	0.976	1.983	5.1	18.6	6 10	17 46.11	-20 36.3	1.337	2.346	3.4	19.6
6 20	17 35.16	-29 19.0	0.989	2.001	3.7	18.5	6 20	17 35.39	-20 1.8	1.337	2.351	2.5	19.6
6 30	17 25.02	-28 35.9	1.026	2.020	8.4	18.9	6 30	17 25.33	-19 29.8	1.364	2.355	7.2	19.9
7 10	17 17.60	-27 48.8	1.084	2.040	13.4	19.2	7 10	17 17.15	-19 2.9	1.415	2.360	11.8	20.1
7 20	17 13.69	-27 3.4	1.161	2.059	17.7	19.5	7 20	17 11.66	-18 43.1	1.487	2.364	15.7	20.4
335021	2004 <i>OP</i> ₃		6 16.2 305°54	1°8/16.5	17		251875	1					

EPHEMERIDES

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6 16.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
320276	2007 <i>RL</i> ₉₅		6 16.3 159°36	1°2/16.1	14	C	192890	1999 <i>XP</i> ₁₁₅		6 16.3 224°55	1°2/16.0	18	
5 11	18 10.55	-20 6.1	2.167	2.994	13.1	23.0	5 11	18 7.27	-22 16.8	2.225	3.058	12.6	20.4
5 21	18 4.22	-19 58.9	2.091	3.004	10.0	22.8	5 21	18 1.81	-21 39.9	2.133	3.050	9.6	20.2
5 31	17 55.78	-19 52.6	2.038	3.012	6.5	22.6	5 31	17 54.32	-21 0.4	2.065	3.042	6.3	20.0
6 10	17 45.92	-19 47.0	2.012	3.020	2.8	22.4	6 10	17 45.41	-20 19.0	2.024	3.032	2.6	19.7
6 20	17 35.52	-19 41.9	2.014	3.027	2.0	22.4	6 20	17 35.91	-19 37.0	2.010	3.023	2.0	19.7
6 30	17 25.55	-19 37.8	2.045	3.032	5.6	22.6	6 30	17 26.74	-18 56.4	2.026	3.013	5.6	19.9
7 10	17 16.92	-19 35.5	2.104	3.037	9.1	22.8	7 10	17 18.80	-18 19.5	2.068	3.003	9.2	20.1
7 20	17 10.26	-19 36.1	2.186	3.041	12.2	23.0	7 20	17 12.72	-17 48.2	2.134	2.992	12.4	20.3
336259	2008 <i>SK</i> ₁₆₃		6 16.3 308°70	4°6/15.8	16		128847	2004 <i>SM</i> ₁₁		6 16.3 185°14	3°2/16.3	18	
5 11	18 3.24	-13 53.4	1.565	2.418	16.0	20.6	5 11	18 6.84	-12 53.2	2.239	3.063	12.8	20.5
5 21	17 59.62	-13 21.9	1.475	2.398	12.7	20.3	5 21	18 1.42	-12 56.1	2.156	3.063	10.0	20.3
5 31	17 53.38	-12 56.2	1.405	2.378	8.9	20.0	5 31	17 54.04	-13 5.8	2.096	3.062	6.9	20.2
6 10	17 45.15	-12 38.9	1.358	2.358	5.5	19.8	6 10	17 45.31	-13 22.6	2.062	3.062	4.0	20.0
6 20	17 35.91	-12 31.9	1.335	2.339	5.1	19.7	6 20	17 35.96	-13 46.4	2.056	3.060	3.5	19.9
6 30	17 26.88	-12 36.5	1.337	2.320	8.5	19.8	6 30	17 26.89	-14 16.4	2.078	3.058	6.1	20.1
7 10	17 19.28	-12 52.7	1.362	2.301	12.6	20.0	7 10	17 18.94	-14 51.7	2.127	3.056	9.3	20.3
7 20	17 14.02	-13 19.5	1.408	2.283	16.6	20.2	7 20	17 12.73	-15 31.0	2.200	3.053	12.2	20.5
472788	2015 <i>FO</i> ₁₅₀		6 16.3 60°84	8°3/15.5	17		510470	2011 <i>WC</i> ₈₀		6 16.3 298°99	1°8/16.2	18	
5 11	18 3.65	-3 43.2	1.818	2.637	15.5	21.5	5 11	18 5.53	-26 23.7	2.113	2.952	12.9	21.4
5 21	17 59.24	-2 43.7	1.751	2.640	12.9	21.3	5 21	18 0.85	-27 2.4	2.024	2.943	10.0	21.2
5 31	17 52.71	-1 57.0	1.705	2.643	10.4	21.1	5 31	17 53.92	-27 40.5	1.959	2.935	6.6	21.0
6 10	17 44.75	-1 27.2	1.681	2.647	8.6	21.0	6 10	17 45.33	-28 15.4	1.920	2.927	3.1	20.8
6 20	17 36.23	-1 17.2	1.683	2.650	8.5	21.0	6 20	17 35.92	-28 44.7	1.907	2.919	2.4	20.7
6 30	17 28.11	-1 27.8	1.709	2.653	10.1	21.1	6 30	17 26.74	-29 7.0	1.923	2.911	5.8	20.9
7 10	17 21.30	-1 57.4	1.758	2.657	12.6	21.3	7 10	17 18.79	-29 22.8	1.964	2.903	9.3	21.1
7 20	17 16.44	-2 42.7	1.828	2.660	15.2	21.5	7 20	17 12.84	-29 33.4	2.029	2.896	12.5	21.3
269116	2007 <i>KO</i> ₈		6 16.3 319°55	1°4/16.4	18		279123	2009 <i>PS</i> ₂		6 16.3 292°52	10°7/16.9	18	
5 11	18 5.14	-17 10.9	1.516	2.372	16.3	19.0	5 11	18 14.66	-46 18.0	1.603	2.408	17.9	19.8
5 21	18 1.31	-17 50.4	1.427	2.355	12.7	18.7	5 21	18 9.76	-47 19.6	1.510	2.384	15.5	19.5
5 31	17 54.63	-18 39.6	1.359	2.339	8.3	18.4	5 31	18 0.68	-48 5.3	1.436	2.360	13.0	19.3
6 10	17 45.71	-19 37.0	1.314	2.324	3.6	18.1	6 10	17 48.27	-48 25.5	1.382	2.335	11.1	19.1
6 20	17 35.59	-20 39.6	1.295	2.309	2.3	17.9	6 20	17 34.09	-48 12.9	1.350	2.311	10.8	19.0
6 30	17 25.60	-21 44.1	1.301	2.295	7.2	18.2	6 30	17 20.32	-47 25.4	1.342	2.287	12.3	19.1
7 10	17 17.12	-22 47.7	1.332	2.281	12.0	18.4	7 10	17 9.06	-46 8.4	1.355	2.262	15.1	19.2
7 20	17 11.20	-23 48.8	1.383	2.268	16.2	18.7	7 20	17 1.67	-44 31.6	1.388	2.238	18.2	19.3
32417	2000 <i>RK</i> ₃₂		6 16.3 17°48	3°9/16.8	18		507826	2014 <i>DT</i> ₁₄₅		6 16.3 183°64	4°8/16.8	18	
5 11	18 6.81	-34 30.4	2.075	2.904	13.5	18.7	5 11	18 10.80	-38 7.5	2.476	3.280	12.3	22.0
5 21	18 1.83	-34 46.6	1.998	2.905	10.7	18.5	5 21	18 4.63	-38 36.8	2.393	3.281	9.9	21.8
5 31	17 54.47	-34 54.4	1.943	2.907	7.6	18.3	5 31	17 56.19	-38 56.9	2.332	3.281	7.4	21.7
6 10	17 45.48	-34 51.1	1.912	2.908	4.8	18.1	6 10	17 46.16	-39 4.4	2.298	3.280	5.3	21.5
6 20	17 35.84	-34 35.1	1.908	2.910	4.1	18.1	6 20	17 35.47	-38 57.3	2.290	3.279	4.9	21.5
6 30	17 26.67	-34 7.1	1.931	2.912	6.5	18.2	6 30	17 25.19	-38 35.8	2.311	3.277	6.6	21.6
7 10	17 19.01	-33 30.2	1.979	2.913	9.6	18.4	7 10	17 16.30	-38 2.4	2.358	3.275	9.0	21.7
7 20	17 13.55	-32 48.3	2.050	2.915	12.5	18.6	7 20	17 9.52	-37 21.0	2.429	3.273	11.5	21.9
225674	2001 <i>OA</i> ₉₆		6 16.3 291°75	1°9/16.2	18		8449	Maslovets		6 16.3 17°76	1°0/16.3	18	R
5 11	18 5.97	-19 10.7	1.599	2.451	15.7	21.1	5 11	18 3.86	-25 13.5	1.730	2.583	14.7	17.0
5 21	18 1.85	-19 3.3	1.501	2.427	12.3	20.8	5 21	17 59.79	-25 29.1	1.661	2.588	11.2	16.8
5 31	17 54.93	-18 58.7	1.423	2.403	8.1	20.5	5 31	17 53.26	-25 43.2	1.614	2.594	7.3	16.5
6 10	17 45.83	-18 57.0	1.369	2.378	3.6	20.2	6 10	17 45.05	-25 54.0	1.590	2.600	3.0	16.3
6 20	17 35.54	-18 58.2	1.341	2.354	2.7	20.1	6 20	17 36.15	-26 0.5	1.593	2.606	1.9	16.2
6 30	17 25.37	-19 2.6	1.338	2.329	7.4	20.3	6 30	17 27.72	-26 2.3	1.621	2.614	6.1	16.5
7 10	17 16.65	-19 10.9	1.359	2.304	12.1	20.5	7 10	17 20.84	-26 0.9	1.674	2.622	10.1	16.8
7 20	17 10.40	-19 23.8	1.401	2.280	16.4	20.7	7 20	17 16.22	-25 57.9	1.749	2.630	13.6	17.0
398621	2011 <i>YW</i> ₄₅		6 16.3 284°10	1°7/16.4	18		324401	2006 <i>SZ</i> ₁₂₂		6 16.3 191°58	2°1/16.3	18	
5 11	18 4.08	-16 4.4	2.351	3.183	12.0	20.8	5 11	18 10.46	-26 50.9	1.778	2.617	15.0	21.2
5 21	17 59.39	-16 28.2	2.257	3.172	9.3	20.6	5 21	18 4.96	-27 25.4	1.698	2.617	11.6	20.9
5 31	17 52.81	-16 57.7	2.186	3.160	6.2	20.4	5 31	17 56.71	-27 58.4	1.640	2.616	7.6	20.7
6 10	17 44.84	-17 32.4	2.142	3.148	2.9	20.1	6 10	17 46.46	-28 26.4	1.607	2.614	3.6	20.5
6 20	17 36.19	-18 11.1	2.126	3.137	2.2	20.1	6 20	17 35.28	-28 46.7	1.600	2.612	2.7	20.4
6 30	17 27.69	-18 52.6	2.138	3.125	5.3	20.3	6 30	17 24.49	-28 58.2	1.621	2.610	6.6	20.6
7 10	17 20.17	-19 35.7	2.177	3.114	8.7	20.4	7 10	17 15.31	-29 2.2	1.667	2.607	10.7	20.9
7 20	17 14.29	-20 19.6	2.240	3.102	11.7	20.6	7 20	17 8.64	-29 1.3	1.735	2.604	14.3	21.1
238458	2004 <i>RD</i> ₁₄		6 16.3 226°97	5°3/16.8	18		471635	2012 <i>TD</i> ₅₇		6 16.3 226°84	1°7/16.4	18	
5 11	18 11.91	-37 57.7	2.194	3.004	13.5	21.3	5 11	18 7.34	-27 51.0	2.416	3.244	11.9	21.8
5 21	18 5.89	-38 28.3	2.102	2.994	10.9	21.1	5 21	18 1.94	-28 8.3	2.321	3.234	9.2	21.6
5 31	17 57.21	-38 49.4	2.033	2.984	8.2	20.9	5 31	17 54.47	-28 22.6	2.250	3.223	6.1	21.4
6 10	17 46.62	-38 56.6	1.988	2.973	5.9	20.7	6 10	17 45.51	-28 32.2	2.206	3.212	2.9	21.1
6 20	17 35.14	-38 47.2	1.971	2.961	5.4	20.7	6 20	17 35.86	-28 35.6	2.189	3.201	2.1	21.1
6 30	17 24.03	-38 21.2	1.980	2.949	7.3	20.8	6 30	17 26.43	-28 32.6	2.201	3.189	5.2	21.3
7 10	17 14.47	-37 41.4	2.015	2.936	10.2	20.9	7 10	17 18.14	-28 24.6	2.240	3.176	8.5	21.4
7 20	17 7.30	-36 52.8	2.074	2.923	13.0	21.1	7 20	17 11.67	-28 13.3	2.304	3.163	11.5	21.6
155	<i>Scylla</i>		6 16.3 177°18	3°2/16.4	18	R	186968	2004 <i>RX</i> ₁₅₄					

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
498599	2008 <i>RN</i> ₃₂		6 16.3 231°57	12°5/16.5	18		389074	2008 <i>WF</i> ₁₀₂		6 16.3 187°61	1°4/15.9	18	
5 11	18 29.55	-60 59.2	2.431	3.118	15.4	21.5	5 11	18 7.20	-21 8.5	2.353	3.183	12.1	21.4
5 21	18 21.36	-62 26.0	2.351	3.106	14.3	21.4	5 21	18 1.60	-20 33.5	2.268	3.182	9.3	21.2
5 31	18 8.29	-63 34.0	2.288	3.093	13.3	21.3	5 31	17 54.12	-19 57.3	2.206	3.181	6.0	21.0
6 10	17 51.30	-64 14.0	2.246	3.079	12.7	21.2	6 10	17 45.37	-19 20.4	2.172	3.180	2.6	20.8
6 20	17 32.33	-64 19.0	2.225	3.065	12.6	21.2	6 20	17 36.13	-18 44.0	2.166	3.178	2.1	20.7
6 30	17 14.07	-63 47.2	2.225	3.050	13.1	21.2	6 30	17 27.24	-18 10.0	2.189	3.175	5.4	20.9
7 10	16 58.97	-62 43.4	2.246	3.034	14.1	21.3	7 10	17 19.53	-17 40.0	2.239	3.172	8.7	21.1
7 20	16 48.47	-61 16.1	2.286	3.018	15.4	21.3	7 20	17 13.56	-17 15.5	2.314	3.169	11.6	21.3
518402	2018 <i>AS</i> ₄		6 16.3 200°32	3°9/16.5	18		391313	2006 <i>TL</i> ₄₄		6 16.3 156°61	2°2/15.9	18	
5 11	18 7.23	-34 45.5	2.485	3.303	11.9	21.4	5 11	18 3.96	-17 39.9	2.394	3.227	11.8	21.7
5 21	18 1.90	-35 19.5	2.401	3.301	9.4	21.2	5 21	17 59.10	-17 12.3	2.315	3.229	9.1	21.5
5 31	17 54.45	-35 47.0	2.340	3.299	6.8	21.0	5 31	17 52.49	-16 46.4	2.259	3.232	6.0	21.3
6 10	17 45.51	-36 4.9	2.305	3.297	4.5	20.9	6 10	17 44.73	-16 23.2	2.230	3.235	3.1	21.1
6 20	17 35.91	-36 11.3	2.298	3.295	4.1	20.9	6 20	17 36.51	-16 3.5	2.228	3.237	2.7	21.1
6 30	17 26.62	-36 5.9	2.318	3.293	6.0	21.0	6 30	17 28.62	-15 48.3	2.255	3.239	5.4	21.3
7 10	17 18.56	-35 50.2	2.365	3.290	8.7	21.1	7 10	17 21.80	-15 38.6	2.309	3.241	8.5	21.5
7 20	17 12.41	-35 27.4	2.435	3.287	11.2	21.3	7 20	17 16.59	-15 34.5	2.386	3.243	11.3	21.6
178537	1999 <i>UD</i> ₁₆		6 16.3 308°12	0°1/16.3	17		206759	2004 <i>CA</i> ₇		6 16.3 177°82	0°6/16.3	18	
5 11	18 5.23	-23 53.9	1.306	2.174	17.6	20.2	5 11	18 5.36	-21 26.0	2.089	2.929	13.0	20.7
5 21	18 2.12	-23 46.4	1.206	2.142	13.8	19.9	5 21	18 0.53	-21 30.0	2.009	2.929	10.0	20.5
5 31	17 55.59	-23 36.7	1.125	2.109	9.1	19.5	5 31	17 53.60	-21 35.0	1.951	2.929	6.4	20.3
6 10	17 46.28	-23 23.8	1.066	2.077	3.7	19.1	6 10	17 45.22	-21 40.3	1.920	2.929	2.6	20.0
6 20	17 35.32	-23 6.7	1.030	2.044	2.3	18.9	6 20	17 36.21	-21 45.1	1.915	2.929	1.6	20.0
6 30	17 24.37	-22 46.6	1.017	2.013	8.3	19.1	6 30	17 27.53	-21 49.7	1.938	2.929	5.5	20.2
7 10	17 15.18	-22 26.0	1.027	1.981	14.1	19.3	7 10	17 20.11	-21 54.5	1.988	2.929	9.1	20.4
7 20	17 9.06	-22 8.5	1.055	1.951	19.2	19.5	7 20	17 14.60	-22 0.4	2.060	2.929	12.3	20.6
374804	2006 <i>UT</i> ₂₈		6 16.3 266°51	3°6/15.8	17		192467	1998 <i>FH</i> ₂₈		6 16.3 31°99	9°5/17.7	18	
5 11	18 6.99	-16 35.9	1.677	2.523	15.4	21.5	5 11	18 10.77	-42 35.3	1.305	2.141	19.5	19.0
5 21	18 2.35	-15 58.5	1.585	2.506	12.1	21.2	5 21	18 6.38	-43 35.6	1.258	2.157	16.2	18.8
5 31	17 55.08	-15 23.4	1.514	2.489	8.3	21.0	5 31	17 58.06	-44 17.2	1.229	2.174	12.9	18.7
6 10	17 45.87	-14 52.5	1.467	2.471	4.6	20.7	6 10	17 47.06	-44 32.5	1.220	2.193	10.3	18.6
6 20	17 35.69	-14 27.5	1.446	2.453	4.2	20.6	6 20	17 35.19	-44 17.7	1.234	2.212	9.6	18.6
6 30	17 25.77	-14 10.6	1.451	2.435	7.8	20.8	6 30	17 24.47	-43 34.4	1.270	2.232	11.2	18.8
7 10	17 17.28	-14 3.1	1.481	2.417	12.0	21.0	7 10	17 16.54	-42 30.3	1.327	2.252	14.0	19.0
7 20	17 11.12	-14 5.3	1.531	2.398	15.9	21.2	7 20	17 12.24	-41 14.4	1.404	2.274	16.9	19.2
475992	2007 <i>QU</i> ₈		6 16.3 309°94	7°1/15.6	16		22083	2000 <i>AN</i> ₁₆₅		6 16.3 221°44	5°9/14.6	18	R
5 11	18 2.43	-7 56.7	1.647	2.487	15.9	20.7	5 11	18 2.52	-7 25.4	2.516	3.329	11.9	18.1
5 21	17 58.89	-7 13.6	1.554	2.463	13.1	20.5	5 21	17 57.89	-6 14.1	2.437	3.327	9.7	18.0
5 31	17 52.90	-6 40.5	1.481	2.439	10.0	20.2	5 31	17 51.67	-5 8.8	2.381	3.325	7.5	17.8
6 10	17 45.03	-6 21.4	1.430	2.415	7.6	20.0	6 10	17 44.41	-4 13.0	2.352	3.323	6.1	17.7
6 20	17 36.18	-6 19.4	1.404	2.392	7.4	20.0	6 20	17 36.72	-3 29.2	2.350	3.321	6.1	17.7
6 30	17 27.47	-6 35.9	1.401	2.369	9.8	20.0	6 30	17 29.31	-2 59.3	2.375	3.319	7.7	17.8
7 10	17 20.47	-7 10.2	1.422	2.346	13.3	20.2	7 10	17 22.83	-2 43.9	2.425	3.316	9.9	18.0
7 20	17 14.77	-7 59.6	1.463	2.324	16.8	20.4	7 20	17 17.81	-2 42.1	2.497	3.314	12.1	18.1
187520	2006 <i>UJ</i> ₈		6 16.3 218°36	0°9/16.2	18		307198	2002 <i>FJ</i> ₃		6 16.3 156°84	9°0/14.8	17	
5 11	18 8.85	-20 51.2	1.956	2.793	13.9	21.5	5 11	18 5.88	+8 54.4	2.944	3.670	12.3	21.9
5 21	18 3.41	-20 50.9	1.867	2.785	10.7	21.3	5 21	18 0.12	+10 0.8	2.882	3.681	10.9	21.8
5 31	17 55.57	-20 51.8	1.800	2.777	7.0	21.0	5 31	17 52.96	+10 52.8	2.842	3.692	9.8	21.7
6 10	17 46.01	-20 53.2	1.759	2.768	2.9	20.7	6 10	17 44.88	+11 27.0	2.826	3.702	9.1	21.7
6 20	17 35.64	-20 54.5	1.745	2.758	1.9	20.6	6 20	17 36.46	+11 41.2	2.835	3.710	9.1	21.7
6 30	17 25.55	-20 56.0	1.758	2.748	6.1	20.9	6 30	17 28.33	+11 35.0	2.869	3.718	9.8	21.8
7 10	17 16.81	-20 58.4	1.798	2.737	10.1	21.1	7 10	17 21.08	+11 9.8	2.926	3.725	10.9	21.9
7 20	17 10.20	-21 2.7	1.861	2.726	13.6	21.3	7 20	17 15.15	+10 28.4	3.004	3.731	12.2	22.0
12694	Schleiermacher		6 16.3 120°51	0°2/16.3	18		467616	2008 <i>CJ</i> ₁₄₂		6 16.3 61°44	5°8/16.1	17	
5 11	18 3.73	-22 53.2	2.559	3.392	11.1	19.1	5 11	18 6.03	-10 50.3	1.495	2.341	17.0	21.4
5 21	17 58.86	-22 52.9	2.482	3.399	8.5	18.9	5 21	18 1.53	-10 18.9	1.431	2.348	13.5	21.2
5 31	17 52.31	-22 52.0	2.429	3.405	5.4	18.7	5 31	17 54.45	-9 57.7	1.387	2.354	9.7	21.0
6 10	17 44.63	-22 50.2	2.402	3.412	2.1	18.5	6 10	17 45.59	-9 49.2	1.366	2.361	6.5	20.8
6 20	17 36.51	-22 47.0	2.404	3.418	1.3	18.5	6 20	17 36.03	-9 54.8	1.370	2.368	6.1	20.8
6 30	17 28.71	-22 42.9	2.434	3.424	4.6	18.7	6 30	17 27.01	-10 14.6	1.398	2.375	8.8	21.0
7 10	17 21.95	-22 38.7	2.491	3.430	7.7	18.9	7 10	17 19.63	-10 46.9	1.449	2.382	12.5	21.2
7 20	17 16.75	-22 35.3	2.573	3.435	10.4	19.1	7 20	17 14.66	-11 29.3	1.521	2.389	15.9	21.5
231074	2005 <i>QQ</i> ₄₆		6 16.3 287°82	4°7/15.9	18		89794	2002 <i>AB</i> ₁₂₅		6 16.3 340°63	8°9/17.9	18	
5 11	18 5.13	-13 23.7	1.600	2.448	16.0	20.0	5 11	18 8.39	-45 49.2	1.753	2.561	16.4	18.0
5 21	18 1.01	-12 54.0	1.512	2.432	12.7	19.8	5 21	18 4.12	-46 21.2	1.671	2.549	14.0	17.8
5 31	17 54.27	-12 30.7	1.444	2.416	8.9	19.5	5 31	17 56.51	-46 35.7	1.608	2.537	11.5	17.7
6 10	17 45.57	-12 16.2	1.400	2.400	5.5	19.3	6 10	17 46.50	-46 26.5	1.566	2.526	9.5	17.5
6 20	17 35.90	-12 12.3	1.381	2.384	5.1	19.2	6 20	17 35.48	-45 50.0	1.548	2.516	9.0	17.5
6 30	17 26.46	-12 19.8	1.386	2.368	8.4	19.4	6 30	17 25.12	-44 47.0	1.553	2.507	10.3	17.5
7 10	17 18.46	-12 38.8	1.416	2.352	12.5	19.6	7 10	17 16.93	-43 23.1	1.582	2.498	12.7	17.6
7 20	17 12.80	-13 7.9	1.466	2.336	16.3	19.8	7 20	17 11.81	-41 46.3	1.632	2.491	15.5	17.8
347425	2012 <i>TX</i> ₂		6 16.3 232°92	1°9/16.1	18		473039	2015 <i>HX</i> ₇₆					

EPHEMERIDES

6 16.3

6 16.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
19826	Patwalker		6 16.3 114°08	0°8/16.2	18		336236	2008 SQ ₁₀₄		6 16.3 226°64	6°0/16.3	18	
5 11	18 4.30	-21 26.9	2.315	3.151	12.0	19.1	5 11	18 11.82	-38 27.1	2.154	2.964	13.7	21.0
5 21	17 59.46	-21 16.6	2.238	3.156	9.2	19.0	5 21	18 6.05	-39 24.9	2.067	2.957	11.2	20.8
5 31	17 52.78	-21 6.4	2.184	3.161	5.9	18.8	5 31	17 57.52	-40 14.4	2.003	2.949	8.6	20.6
6 10	17 44.87	-20 56.2	2.157	3.167	2.4	18.5	6 10	17 46.93	-40 50.3	1.963	2.941	6.5	20.5
6 20	17 36.47	-20 46.1	2.158	3.171	1.6	18.5	6 20	17 35.31	-41 8.6	1.950	2.932	6.2	20.5
6 30	17 28.44	-20 36.7	2.187	3.176	5.1	18.7	6 30	17 23.98	-41 8.0	1.963	2.923	8.0	20.6
7 10	17 21.54	-20 29.0	2.242	3.181	8.4	18.9	7 10	17 14.19	-40 50.9	2.001	2.914	10.6	20.7
7 20	17 16.35	-20 23.9	2.321	3.186	11.3	19.1	7 20	17 6.86	-40 21.6	2.062	2.905	13.3	20.9
66351	1999 JU ₇₇		6 16.3 11°13	4°6/16.5	18		490702	2010 PQ ₃₅		6 16.3 297°42	5°1/16.3	18	
5 11	18 5.67	-13 6.8	1.247	2.109	18.7	18.5	5 11	18 7.80	-36 15.0	2.198	3.019	13.1	21.4
5 21	18 1.87	-13 3.1	1.181	2.109	14.7	18.2	5 21	18 3.01	-36 59.5	2.090	2.990	10.7	21.2
5 31	17 55.00	-13 10.8	1.134	2.111	10.2	17.9	5 31	17 55.63	-37 37.4	2.005	2.961	8.0	20.9
6 10	17 45.92	-13 31.2	1.109	2.113	5.8	17.7	6 10	17 46.22	-38 4.5	1.944	2.932	5.7	20.7
6 20	17 35.86	-14 3.8	1.107	2.115	5.0	17.7	6 20	17 35.69	-38 17.2	1.910	2.902	5.3	20.7
6 30	17 26.32	-14 47.0	1.129	2.118	8.8	17.9	6 30	17 25.24	-38 14.0	1.902	2.873	7.4	20.7
7 10	17 18.70	-15 38.4	1.173	2.121	13.4	18.2	7 10	17 16.06	-37 56.4	1.920	2.843	10.4	20.8
7 20	17 13.93	-16 35.0	1.237	2.125	17.5	18.4	7 20	17 9.11	-37 28.1	1.960	2.814	13.5	21.0
355590	2008 CK ₁₄₀		6 16.3 181°05	4°2/16.8	18		249652	1999 TY ₂₆₈		6 16.3 291°30	0°8/16.5	18	
5 11	18 8.29	-36 53.0	2.581	3.391	11.7	21.3	5 11	18 4.87	-27 8.2	2.241	3.077	12.4	20.4
5 21	18 2.64	-37 17.1	2.499	3.392	9.4	21.2	5 21	18 0.13	-26 52.8	2.151	3.069	9.5	20.2
5 31	17 54.90	-37 33.0	2.439	3.392	6.9	21.0	5 31	17 53.36	-26 32.9	2.084	3.061	6.2	20.0
6 10	17 45.74	-37 38.0	2.405	3.392	4.8	20.9	6 10	17 45.17	-26 8.0	2.044	3.053	2.6	19.8
6 20	17 35.99	-37 30.3	2.399	3.392	4.3	20.8	6 20	17 36.39	-25 38.1	2.031	3.044	1.6	19.7
6 30	17 26.61	-37 10.2	2.420	3.391	6.0	20.9	6 30	17 27.95	-25 4.6	2.045	3.036	5.2	19.9
7 10	17 18.49	-36 40.0	2.468	3.390	8.5	21.1	7 10	17 20.71	-24 29.8	2.086	3.028	8.7	20.1
7 20	17 12.29	-36 2.9	2.540	3.389	10.9	21.3	7 20	17 15.34	-23 56.1	2.151	3.020	11.9	20.3
192799	1999 VB ₁		6 16.3 224°96	2°9/16.2	18		11228	Botnick		6 16.3 208°15	1°5/16.2	18	
5 11	18 9.92	-30 34.3	2.488	3.307	11.8	21.3	5 11	18 9.77	-19 27.9	1.760	2.600	15.1	19.0
5 21	18 4.04	-31 16.2	2.390	3.295	9.3	21.1	5 21	18 4.34	-19 26.4	1.676	2.596	11.6	18.8
5 31	17 55.95	-31 54.9	2.316	3.282	6.4	20.9	5 31	17 56.32	-19 27.3	1.614	2.591	7.6	18.6
6 10	17 46.23	-32 27.3	2.269	3.269	3.7	20.7	6 10	17 46.42	-19 30.4	1.576	2.585	3.3	18.3
6 20	17 35.67	-32 50.8	2.251	3.256	3.2	20.6	6 20	17 35.64	-19 35.1	1.565	2.578	2.3	18.2
6 30	17 25.26	-33 4.3	2.261	3.241	5.7	20.8	6 30	17 25.21	-19 41.4	1.582	2.571	6.6	18.4
7 10	17 15.97	-33 8.5	2.299	3.226	8.8	20.9	7 10	17 16.27	-19 49.9	1.623	2.564	10.9	18.7
7 20	17 8.56	-33 5.7	2.361	3.211	11.6	21.1	7 20	17 9.68	-20 1.2	1.688	2.556	14.6	18.9
280346	2003 SD ₂₂₄		6 16.3 323°23	2°3/16.2	17		237061	2008 SU ₁₉₄		6 16.3 101°81	3°2/15.9	17	
5 11	18 4.89	-26 32.5	1.529	2.387	16.0	20.0	5 11	18 6.70	-15 5.3	2.140	2.970	13.1	20.9
5 21	18 1.31	-27 11.0	1.442	2.371	12.5	19.7	5 21	18 1.20	-14 35.3	2.079	2.990	10.1	20.7
5 31	17 54.74	-27 49.2	1.376	2.356	8.3	19.4	5 31	17 53.84	-14 9.4	2.041	3.010	6.9	20.6
6 10	17 45.89	-28 23.9	1.333	2.341	3.9	19.1	6 10	17 45.30	-13 48.9	2.029	3.029	4.0	20.4
6 20	17 35.84	-28 51.4	1.314	2.326	3.0	19.0	6 20	17 36.37	-13 34.7	2.044	3.048	3.6	20.4
6 30	17 26.02	-29 10.1	1.321	2.313	7.3	19.3	6 30	17 27.95	-13 27.6	2.087	3.067	6.2	20.6
7 10	17 17.86	-29 20.6	1.351	2.300	11.9	19.5	7 10	17 20.79	-13 27.8	2.157	3.085	9.2	20.8
7 20	17 12.39	-29 25.0	1.402	2.287	16.0	19.7	7 20	17 15.44	-13 35.0	2.250	3.103	12.0	21.0
448543	2010 RM ₁₂		6 16.3 236°19	6°0/16.9	18		98560	2000 WH ₁₁		6 16.3 140°07	1°2/16.3	18	
5 11	18 10.31	-43 37.4	2.838	3.620	11.4	21.3	5 11	18 9.33	-24 20.4	2.128	2.960	13.1	19.7
5 21	18 4.31	-44 12.5	2.743	3.608	9.6	21.1	5 21	18 3.60	-25 1.5	2.053	2.968	10.0	19.5
5 31	17 56.07	-44 37.0	2.672	3.595	7.7	21.0	5 31	17 55.64	-25 43.0	2.000	2.976	6.5	19.3
6 10	17 46.25	-44 47.4	2.625	3.583	6.3	20.9	6 10	17 46.10	-26 22.3	1.975	2.983	2.8	19.0
6 20	17 35.70	-44 41.1	2.605	3.569	6.0	20.8	6 20	17 35.86	-26 56.7	1.977	2.990	1.9	19.0
6 30	17 25.45	-44 17.9	2.612	3.556	7.1	20.9	6 30	17 25.98	-27 25.2	2.008	2.997	5.5	19.2
7 10	17 16.47	-43 40.2	2.645	3.542	9.0	21.0	7 10	17 17.41	-27 47.7	2.066	3.004	9.1	19.5
7 20	17 9.50	-42 51.7	2.702	3.528	11.0	21.1	7 20	17 10.89	-28 5.5	2.148	3.010	12.2	19.7
350267	2012 TQ ₁₉₃		6 16.3 293°17	2°4/16.3	16		57580	2001 TF ₆₇		6 16.3 203°00	2°3/16.4	18	
5 11	18 7.00	-28 14.5	1.899	2.740	14.1	20.9	5 11	18 6.58	-29 6.8	2.313	3.143	12.2	19.4
5 21	18 2.25	-28 47.7	1.816	2.735	10.9	20.7	5 21	18 1.47	-29 34.0	2.229	3.142	9.5	19.3
5 31	17 54.98	-29 18.4	1.756	2.730	7.3	20.4	5 31	17 54.25	-29 58.0	2.168	3.140	6.4	19.1
6 10	17 45.88	-29 43.4	1.720	2.725	3.7	20.2	6 10	17 45.55	-30 16.2	2.133	3.138	3.3	18.9
6 20	17 35.91	-30 0.4	1.710	2.721	2.9	20.1	6 20	17 36.18	-30 27.0	2.127	3.136	2.6	18.8
6 30	17 26.26	-30 8.4	1.728	2.716	6.3	20.3	6 30	17 27.11	-30 29.9	2.148	3.134	5.5	19.0
7 10	17 18.07	-30 8.7	1.770	2.711	10.1	20.6	7 10	17 19.25	-30 26.1	2.195	3.131	8.7	19.2
7 20	17 12.15	-30 3.8	1.836	2.706	13.5	20.8	7 20	17 13.28	-30 17.8	2.266	3.129	11.6	19.4
497955	2006 XX ₁₂		6 16.3 235°14	0°7/16.3	17		313963	2004 RS ₃₃₈		6 16.3 263°12	0°6/16.3	18	
5 11	18 9.61	-24 31.5	1.946	2.783	14.0	22.3	5 11	18 3.28	-21 32.8	2.441	3.277	11.5	21.2
5 21	18 4.19	-24 46.2	1.852	2.770	10.8	22.0	5 21	17 58.72	-21 33.1	2.355	3.273	8.8	21.0
5 31	17 56.23	-25 0.1	1.780	2.757	7.0	21.8	5 31	17 52.36	-21 33.8	2.292	3.269	5.7	20.8
6 10	17 46.39	-25 11.5	1.734	2.743	2.9	21.5	6 10	17 44.77	-21 34.6	2.256	3.265	2.3	20.6
6 20	17 35.61	-25 18.7	1.715	2.729	1.8	21.4	6 20	17 36.64	-21 35.2	2.248	3.261	1.4	20.5
6 30	17 25.06	-25 21.3	1.724	2.714	6.1	21.6	6 30	17 28.77	-21 35.7	2.267	3.258	4.9	20.8
7 10	17 15.88	-25 20.4	1.758	2.699	10.2	21.8	7 10	17 21.92	-21 36.8	2.314	3.254	8.1	21.0
7 20	17 8.93	-25 18.0	1.816	2.683	13.8	22.0	7 20	17 16.68	-21 39.2	2.384	3.250	11.0	21.1
293316	2007 DN ₄₇		6 16.3 88°67	0°2/16.3	17		310259	2011 UF ₃₁		6 16.3 322°00	3°4/15.7	18	
5 11	18 8.74	-22 57.1	1.7										

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
209882	2005 <i>JW</i> ₁₆₃		6 16.3	7°08	2°8/15.9	18	76011	2000 <i>DH</i> ₂₆		6 16.3	321°60	1°3/16.4	18
5 11	18 4.30	-16 51.6	1.983	2.824	13.6	20.6	5 11	18 5.31	-26 33.7	1.766	2.615	14.6	19.0
5 21	17 59.76	-16 24.8	1.905	2.824	10.5	20.4	5 21	18 1.07	-26 39.2	1.682	2.607	11.3	18.8
5 31	17 53.14	-16 0.8	1.850	2.824	7.0	20.2	5 31	17 54.28	-26 41.5	1.620	2.599	7.4	18.6
6 10	17 45.10	-15 41.0	1.820	2.824	3.7	20.0	6 10	17 45.65	-26 39.0	1.582	2.591	3.2	18.3
6 20	17 36.48	-15 26.2	1.817	2.825	3.3	20.0	6 20	17 36.18	-26 30.8	1.570	2.584	2.1	18.2
6 30	17 28.23	-15 17.6	1.840	2.825	6.4	20.2	6 30	17 27.08	-26 17.2	1.585	2.577	6.3	18.4
7 10	17 21.23	-15 15.7	1.889	2.825	9.9	20.4	7 10	17 19.49	-26 0.3	1.623	2.570	10.4	18.7
7 20	17 16.14	-15 20.6	1.961	2.825	13.0	20.6	7 20	17 14.21	-25 42.7	1.684	2.564	14.1	18.9
100748	1998 <i>EW</i> ₄		6 16.3	358°23	5°9/16.3	17	429822	2012 <i>KK</i> ₅₁		6 16.3	33°34	1°0/16.2	17
5 11	17 57.80	-13 19.8	0.939	1.831	20.8	18.8	5 11	18 5.76	-22 38.4	1.319	2.185	17.6	20.2
5 21	17 56.59	-12 51.2	0.880	1.825	16.5	18.5	5 21	18 1.70	-22 15.1	1.263	2.197	13.4	20.0
5 31	17 51.97	-12 34.5	0.838	1.821	11.6	18.2	5 31	17 54.71	-21 50.6	1.226	2.209	8.6	19.8
6 10	17 44.85	-12 33.5	0.815	1.819	7.1	18.0	6 10	17 45.77	-21 25.4	1.212	2.223	3.5	19.5
6 20	17 36.60	-12 49.9	0.811	1.819	6.4	17.9	6 20	17 36.17	-21 0.4	1.222	2.237	2.3	19.4
6 30	17 28.95	-13 23.2	0.828	1.820	10.4	18.2	6 30	17 27.33	-20 37.5	1.257	2.251	7.3	19.8
7 10	17 23.47	-14 10.8	0.864	1.824	15.3	18.4	7 10	17 20.49	-20 19.0	1.315	2.266	11.9	20.1
7 20	17 21.16	-15 8.3	0.916	1.829	19.8	18.7	7 20	17 16.38	-20 6.4	1.392	2.282	15.8	20.4
311377	2005 <i>SF</i> ₂₂₁		6 16.3	165°81	4°6/15.4	18	161368	2003 <i>SD</i> ₂₂₆		6 16.3	269°27	2°4/16.4	18
5 11	18 2.42	- 8 9.0	2.915	3.723	10.6	21.4	5 11	18 7.48	-28 34.5	1.972	2.810	13.8	20.4
5 21	17 57.60	- 7 24.9	2.837	3.727	8.5	21.3	5 21	18 2.63	-29 0.7	1.880	2.797	10.7	20.2
5 31	17 51.43	- 6 46.8	2.783	3.730	6.4	21.2	5 31	17 55.27	-29 23.8	1.810	2.785	7.2	19.9
6 10	17 44.36	- 6 16.7	2.756	3.733	4.9	21.1	6 10	17 46.06	-29 41.1	1.766	2.772	3.6	19.7
6 20	17 36.93	- 5 55.9	2.757	3.736	4.8	21.1	6 20	17 35.93	-29 50.4	1.748	2.759	2.8	19.6
6 30	17 29.76	- 5 45.5	2.786	3.739	6.3	21.2	6 30	17 26.05	-29 51.0	1.758	2.746	6.3	19.8
7 10	17 23.41	- 5 45.4	2.841	3.741	8.3	21.3	7 10	17 17.54	-29 44.3	1.793	2.733	10.0	20.0
7 20	17 18.32	- 5 54.7	2.920	3.743	10.3	21.5	7 20	17 11.26	-29 32.9	1.850	2.719	13.5	20.2
497703	2006 <i>SG</i> ₈₇		6 16.3	249°50	0°8/16.3	17	313168	2001 <i>FU</i> ₁₃₆		6 16.3	18°54	7°5/17.4	17
5 11	18 8.68	-21 36.9	1.794	2.637	14.7	22.2	5 11	18 1.46	- 7 3.5	0.979	1.853	21.6	19.1
5 21	18 3.62	-21 31.5	1.701	2.622	11.4	21.9	5 21	17 59.03	- 7 7.1	0.932	1.862	17.4	18.9
5 31	17 55.94	-21 26.4	1.629	2.607	7.4	21.7	5 31	17 53.31	- 7 33.2	0.902	1.874	12.8	18.7
6 10	17 46.32	-21 21.0	1.582	2.591	3.0	21.4	6 10	17 45.31	- 8 24.0	0.891	1.887	8.8	18.5
6 20	17 35.73	-21 14.9	1.561	2.575	2.0	21.3	6 20	17 36.43	- 9 37.5	0.901	1.901	7.7	18.5
6 30	17 25.38	-21 8.7	1.568	2.559	6.5	21.5	6 30	17 28.33	-11 8.5	0.931	1.918	10.6	18.7
7 10	17 16.45	-21 3.6	1.600	2.542	10.9	21.7	7 10	17 22.40	-12 49.7	0.983	1.936	14.7	19.0
7 20	17 9.84	-21 1.0	1.654	2.524	14.7	21.9	7 20	17 19.52	-14 33.9	1.053	1.955	18.7	19.3
501718	2014 <i>UL</i> ₄₂		6 16.3	264°69	2°2/16.1	17	34654	2000 <i>WF</i> ₁₄₅		6 16.3	268°69	1°9/16.4	18
5 11	18 8.69	-19 48.8	1.554	2.404	16.2	22.3	5 11	18 4.70	-15 49.7	2.288	3.120	12.3	19.1
5 21	18 4.00	-19 24.0	1.462	2.387	12.6	22.1	5 21	17 59.96	-16 9.1	2.197	3.111	9.5	18.9
5 31	17 56.38	-18 59.6	1.390	2.368	8.4	21.8	5 31	17 53.28	-16 34.3	2.130	3.103	6.4	18.7
6 10	17 46.55	-18 36.3	1.341	2.350	3.8	21.4	6 10	17 45.21	-17 4.8	2.088	3.094	3.1	18.5
6 20	17 35.58	-18 15.0	1.319	2.331	3.0	21.3	6 20	17 36.45	-17 39.7	2.074	3.085	2.4	18.4
6 30	17 24.86	-17 57.3	1.322	2.311	7.6	21.6	6 30	17 27.88	-18 17.7	2.089	3.076	5.5	18.6
7 10	17 15.74	-17 45.1	1.349	2.292	12.4	21.8	7 10	17 20.33	-18 57.9	2.130	3.067	8.8	18.8
7 20	17 9.22	-17 39.8	1.396	2.272	16.7	22.0	7 20	17 14.46	-19 39.3	2.196	3.059	11.9	19.0
65199	2002 <i>CP</i> ₂₈₇		6 16.3	308°67	0°3/16.3	18	465586	2008 <i>YB</i> ₁₃₂		6 16.3	208°92	0°1/16.3	16
5 11	18 4.22	-22 34.3	2.213	3.053	12.4	20.5	5 11	18 11.28	-22 21.6	1.669	2.511	15.7	22.4
5 21	17 59.60	-22 33.9	2.131	3.051	9.5	20.3	5 21	18 5.76	-22 37.6	1.585	2.506	12.1	22.1
5 31	17 53.01	-22 33.2	2.072	3.050	6.1	20.1	5 31	17 57.39	-22 55.0	1.523	2.501	7.8	21.9
6 10	17 45.06	-22 31.8	2.039	3.049	2.4	19.8	6 10	17 46.92	-23 11.9	1.485	2.495	3.1	21.6
6 20	17 36.52	-22 29.2	2.033	3.048	1.5	19.8	6 20	17 35.44	-23 26.5	1.474	2.488	1.8	21.4
6 30	17 28.30	-22 25.9	2.056	3.047	5.2	20.0	6 30	17 24.31	-23 38.0	1.490	2.481	6.7	21.7
7 10	17 21.25	-22 22.7	2.104	3.045	8.7	20.2	7 10	17 14.82	-23 47.2	1.530	2.473	11.2	22.0
7 20	17 15.99	-22 20.6	2.176	3.044	11.8	20.4	7 20	17 7.89	-23 55.6	1.593	2.465	15.2	22.2
337009	1993 <i>PR</i> ₂		6 16.3	233°38	3°7/16.0	18	381554	2008 <i>TU</i> ₈₅		6 16.3	180°74	9°3/14.1	18
5 11	18 5.13	-11 24.8	2.588	3.404	11.5	21.5	5 11	18 4.89	- 0 12.2	2.101	2.895	14.5	20.9
5 21	18 0.02	-11 8.1	2.489	3.390	9.1	21.3	5 21	18 0.00	+ 1 18.1	2.031	2.896	12.4	20.8
5 31	17 53.18	-10 57.2	2.414	3.374	6.5	21.2	5 31	17 53.22	+ 2 36.4	1.983	2.896	10.5	20.7
6 10	17 45.12	-10 53.1	2.365	3.358	4.3	21.0	6 10	17 45.15	+ 3 37.5	1.959	2.896	9.4	20.6
6 20	17 36.47	-10 56.7	2.345	3.342	4.0	20.9	6 20	17 36.56	+ 4 17.5	1.960	2.896	9.5	20.6
6 30	17 27.96	-11 8.3	2.352	3.325	6.1	21.0	6 30	17 28.31	+ 4 34.6	1.985	2.896	10.8	20.7
7 10	17 20.33	-11 27.5	2.387	3.307	8.8	21.2	7 10	17 21.20	+ 4 29.4	2.034	2.895	12.8	20.8
7 20	17 14.18	-11 53.5	2.446	3.288	11.5	21.3	7 20	17 15.82	+ 4 4.6	2.102	2.894	14.8	20.9
504777	2009 <i>XA</i> ₁₆		6 16.3	183°64	3°0/16.4	17	490334	2009 <i>CK</i>		6 16.3	195°99	16°5/18.6	18
5 11	18 7.26	-13 29.3	2.139	2.965	13.2	21.8	5 11	18 12.26	+11 13.3	1.274	2.046	23.2	21.3
5 21	18 1.91	-13 38.6	2.056	2.965	10.3	21.6	5 21	18 6.88	+12 8.8	1.211	2.045	21.0	21.1
5 31	17 54.51	-13 55.1	1.997	2.965	7.1	21.4	5 31	17 58.28	+12 31.1	1.163	2.044	18.7	20.9
6 10	17 45.66	-14 18.7	1.963	2.965	3.9	21.2	6 10	17 47.32	+12 11.4	1.132	2.042	17.1	20.8
6 20	17 36.16	-14 48.8	1.957	2.964	3.3	21.1	6 20	17 35.27	+11 5.0	1.120	2.039	16.5	20.8
6 30	17 26.94	-15 24.5	1.980	2.963	6.1	21.3	6 30	17 23.72	+ 9 13.4	1.129	2.035	17.5	20.8
7 10	17 18.89	-16 4.4	2.029	2.961	9.5	21.5	7 10	17 14.12	+ 6 45.1	1.158	2.031	19.5	20.9
7 20	17 12.67	-16 47.5	2.101	2.959	12.6	21.7	7 20	17 7.47	+ 3 52.2	1.205	2.027	22.1	21.1
479037	2013 <i>AY</i> ₃₂		6 16.3	140°42	5°7/16.5	17	44523						

EPHEMERIDES

6 16.3

6 16.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
15341	1994 CV ₁₆		6 16.3 33°67'	0°6/16.3	18		440570	2005 UJ ₃₈₅		6 16.3 292°32'	0°9/16.4	18	
5 11	18 5.01	-21 15.4	2.046	2.887	13.2	18.2	5 11	18 4.63	-26 18.4	2.185	3.024	12.6	21.1
5 21	18 0.36	-21 19.0	1.967	2.888	10.1	18.0	5 21	18 0.11	-26 16.5	2.092	3.011	9.7	20.9
5 31	17 53.58	-21 23.6	1.910	2.888	6.5	17.8	5 31	17 53.48	-26 11.6	2.021	2.998	6.3	20.7
6 10	17 45.33	-21 28.6	1.880	2.889	2.6	17.6	6 10	17 45.34	-26 2.5	1.975	2.984	2.7	20.4
6 20	17 36.46	-21 33.6	1.876	2.890	1.6	17.5	6 20	17 36.49	-25 48.9	1.957	2.971	1.7	20.3
6 30	17 27.93	-21 38.6	1.899	2.891	5.5	17.7	6 30	17 27.91	-25 31.3	1.967	2.958	5.4	20.6
7 10	17 20.65	-21 44.0	1.949	2.891	9.2	18.0	7 10	17 20.51	-25 11.4	2.002	2.945	9.0	20.8
7 20	17 15.31	-21 50.6	2.022	2.892	12.4	18.2	7 20	17 15.00	-24 51.3	2.061	2.932	12.2	20.9
500165	2012 FO ₁₂		6 16.3 144°70'	3°7/16.1	17		491559	2012 QA ₄		6 16.3 256°86'	4°4/16.8	15	
5 11	18 9.07	-14 24.6	1.837	2.670	14.8	21.8	5 11	18 10.21	-34 47.9	2.004	2.829	14.1	22.3
5 21	18 3.45	-14 3.0	1.767	2.680	11.5	21.6	5 21	18 4.85	-35 11.0	1.910	2.814	11.2	22.0
5 31	17 55.55	-13 47.1	1.719	2.689	7.9	21.4	5 31	17 56.78	-35 26.0	1.838	2.800	8.1	21.8
6 10	17 46.09	-13 37.8	1.696	2.697	4.5	21.2	6 10	17 46.71	-35 28.9	1.790	2.785	5.2	21.6
6 20	17 36.04	-13 36.1	1.700	2.705	4.0	21.2	6 20	17 35.68	-35 17.3	1.769	2.770	4.6	21.5
6 30	17 26.46	-13 42.2	1.731	2.712	7.0	21.4	6 30	17 24.98	-34 51.2	1.775	2.754	7.1	21.7
7 10	17 18.34	-13 56.0	1.787	2.718	10.6	21.6	7 10	17 15.81	-34 13.5	1.806	2.739	10.5	21.8
7 20	17 12.36	-14 16.6	1.866	2.724	13.9	21.8	7 20	17 9.08	-33 28.8	1.860	2.722	13.7	22.0
251919	1999 VQ ₁₆₃		6 16.3 290°50'	2°9/15.7	18		377757	2005 YL ₃₃		6 16.3 227°62'	0°2/16.3	17	
5 11	18 3.28	-16 46.9	2.262	3.098	12.3	20.3	5 11	18 7.84	-23 17.5	2.024	2.861	13.5	21.9
5 21	17 58.92	-16 7.6	2.161	3.077	9.6	20.0	5 21	18 2.65	-23 13.4	1.934	2.853	10.4	21.7
5 31	17 52.63	-15 29.6	2.084	3.056	6.5	19.8	5 31	17 55.15	-23 8.2	1.867	2.845	6.7	21.4
6 10	17 44.97	-14 54.2	2.032	3.035	3.7	19.6	6 10	17 46.01	-23 1.2	1.826	2.836	2.7	21.2
6 20	17 36.65	-14 23.1	2.008	3.014	3.4	19.5	6 20	17 36.11	-22 51.9	1.812	2.826	1.6	21.1
6 30	17 28.51	-13 58.1	2.011	2.993	6.2	19.7	6 30	17 26.52	-22 41.0	1.826	2.817	5.8	21.3
7 10	17 21.39	-13 40.5	2.041	2.972	9.5	19.8	7 10	17 18.24	-22 29.8	1.866	2.807	9.7	21.5
7 20	17 15.94	-13 30.8	2.093	2.951	12.6	20.0	7 20	17 12.02	-22 20.1	1.929	2.796	13.1	21.7
276133	2002 GV ₁₄₉		6 16.3 128°57'	0°9/16.2	17		161590	2005 NO ₄₉		6 16.3 246°20'	2°0/16.1	18	
5 11	18 7.54	-21 21.8	2.018	2.855	13.5	21.2	5 11	18 4.23	-17 39.4	2.561	3.390	11.2	20.7
5 21	18 2.17	-21 10.5	1.946	2.865	10.3	21.0	5 21	17 59.40	-17 21.1	2.463	3.376	8.7	20.5
5 31	17 54.67	-20 59.3	1.897	2.874	6.7	20.8	5 31	17 52.84	-17 4.5	2.388	3.361	5.8	20.3
6 10	17 45.74	-20 48.1	1.873	2.882	2.7	20.6	6 10	17 45.05	-16 50.3	2.341	3.346	2.9	20.1
6 20	17 36.26	-20 36.9	1.877	2.891	1.8	20.5	6 20	17 36.68	-16 39.0	2.321	3.330	2.4	20.0
6 30	17 27.24	-20 26.6	1.909	2.899	5.7	20.8	6 30	17 28.50	-16 31.2	2.330	3.314	5.2	20.2
7 10	17 19.60	-20 18.4	1.967	2.906	9.3	21.0	7 10	17 21.24	-16 27.7	2.366	3.298	8.3	20.3
7 20	17 13.95	-20 13.1	2.048	2.914	12.5	21.2	7 20	17 15.49	-16 28.8	2.426	3.282	11.2	20.5
276401	2002 XQ ₅₁		6 16.3 261°13'	0°3/16.3	18		418216	2008 CQ ₁₆₄		6 16.3 218°78'	2°1/16.2	18	
5 11	18 8.46	-22 9.8	1.792	2.635	14.7	21.3	5 11	18 9.18	-17 32.6	1.967	2.800	14.0	22.0
5 21	18 3.56	-22 18.4	1.696	2.618	11.4	21.0	5 21	18 3.70	-17 27.2	1.876	2.791	10.9	21.8
5 31	17 56.00	-22 28.1	1.622	2.600	7.4	20.8	5 31	17 55.86	-17 25.3	1.808	2.782	7.2	21.5
6 10	17 46.42	-22 37.6	1.572	2.582	3.0	20.4	6 10	17 46.32	-17 27.0	1.765	2.772	3.5	21.3
6 20	17 35.79	-22 45.7	1.549	2.563	1.8	20.3	6 20	17 35.94	-17 32.1	1.750	2.761	2.7	21.2
6 30	17 25.33	-22 52.1	1.553	2.544	6.5	20.6	6 30	17 25.82	-17 40.8	1.762	2.749	6.4	21.4
7 10	17 16.27	-22 57.4	1.581	2.525	10.9	20.8	7 10	17 16.99	-17 53.2	1.801	2.737	10.3	21.6
7 20	17 9.54	-23 3.1	1.633	2.505	14.8	21.0	7 20	17 10.24	-18 9.5	1.862	2.724	13.7	21.8
107127	2001 AX ₄₆		6 16.3 152°60'	12°4/16.8	18		133375	2003 SB ₁₄₉		6 16.3 267°88'	0°4/16.4	17	
5 11	18 27.04	-54 4.1	1.955	2.698	17.1	20.1	5 11	18 6.58	-24 15.0	1.982	2.823	13.6	20.9
5 21	18 19.31	-55 48.0	1.894	2.706	15.3	20.0	5 21	18 1.84	-24 20.4	1.889	2.809	10.5	20.7
5 31	18 6.93	-57 12.7	1.852	2.714	13.7	19.9	5 31	17 54.73	-24 24.8	1.817	2.795	6.8	20.4
6 10	17 50.92	-58 7.8	1.831	2.721	12.6	19.8	6 10	17 45.88	-24 26.9	1.771	2.781	2.8	20.2
6 20	17 33.19	-58 26.4	1.833	2.727	12.4	19.8	6 20	17 36.19	-24 25.7	1.752	2.767	1.6	20.0
6 30	17 16.27	-58 7.3	1.857	2.733	13.2	19.9	6 30	17 26.74	-24 21.3	1.761	2.752	5.8	20.3
7 10	17 2.41	-57 16.3	1.903	2.738	14.6	20.0	7 10	17 18.58	-24 15.1	1.795	2.738	9.8	20.5
7 20	16 52.94	-56 3.2	1.968	2.742	16.3	20.1	7 20	17 12.51	-24 8.6	1.852	2.723	13.4	20.7
244169	2001 XK ₈₁		6 16.3 45°22'	3°7/15.8	17		494433	2016 UM ₈₉		6 16.3 354°66'	3°3/15.8	16	
5 11	18 7.82	-19 10.4	1.100	1.973	19.8	19.2	5 11	18 2.93	-15 49.7	2.109	2.948	12.9	21.3
5 21	18 3.54	-18 13.0	1.053	1.990	15.2	18.9	5 21	17 58.62	-15 9.3	2.030	2.947	10.1	21.1
5 31	17 55.98	-17 17.4	1.025	2.007	10.1	18.7	5 31	17 52.39	-14 31.6	1.974	2.946	6.9	20.9
6 10	17 46.30	-16 26.8	1.017	2.025	5.1	18.5	6 10	17 44.88	-13 58.5	1.944	2.945	4.0	20.8
6 20	17 36.01	-15 44.6	1.033	2.043	4.4	18.5	6 20	17 36.84	-13 31.6	1.940	2.945	3.7	20.7
6 30	17 26.72	-15 13.7	1.072	2.062	8.9	18.8	6 30	17 29.14	-13 12.3	1.964	2.945	6.4	20.9
7 10	17 19.75	-14 56.0	1.132	2.081	13.6	19.1	7 10	17 22.60	-13 1.5	2.013	2.944	9.6	21.1
7 20	17 15.82	-14 51.0	1.212	2.101	17.7	19.5	7 20	17 17.81	-12 59.3	2.085	2.945	12.5	21.3
91927	1999 VA ₃₉		6 16.3 348°38'	3°3/15.5	18		417738	2007 CQ ₆₁		6 16.3 47°32'	8°7/17.9	17	
5 11	18 3.52	-17 3.3	2.163	3.002	12.7	19.1	5 11	18 14.09	-42 27.4	1.390	2.217	19.0	20.5
5 21	17 58.99	-16 4.2	2.083	3.000	9.8	18.9	5 21	18 8.63	-43 12.4	1.343	2.238	15.7	20.3
5 31	17 52.58	-15 5.8	2.026	2.998	6.7	18.7	5 31	17 59.40	-43 38.8	1.315	2.260	12.3	20.2
6 10	17 44.91	-14 10.3	1.995	2.996	3.9	18.5	6 10	17 47.70	-43 40.0	1.308	2.282	9.5	20.1
6 20	17 36.76	-13 20.2	1.991	2.995	3.7	18.5	6 20	17 35.30	-43 13.1	1.324	2.305	8.8	20.1
6 30	17 28.97	-12 38.0	2.015	2.994	6.4	18.7	6 30	17 24.12	-42 20.5	1.364	2.328	10.4	20.3
7 10	17 22.34	-12 5.3	2.065	2.993	9.6	18.9	7 10	17 15.68	-41 9.9	1.426	2.351	13.2	20.5
7 20	17 17.44	-11 42.9	2.137	2.992	12.5	19.1	7 20	17 10.76	-39 50.3	1.508	2.375	16.1	20.7
491905	2013 CJ ₄₂		6 16.3 174°54'	1°8/16.7	18		303918	2005 UR ₁₉₃		6 16.3 142°82'	0°3/16.4	17	

EPHEMERIDES

6 16.3

6 16.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
90296	2003 <i>EY</i> ₂₉		6 16.3 306°81	7°5/15.8	18		415096	2012 <i>BY</i> ₁₅₁		6 16.4 156°00	1°7/16.4	17	
5 11	18 2.10	- 2 39.4	2.139	2.948	13.8	19.2	5 11	18 9.33	-18 9.1	1.633	2.477	15.8	21.0
5 21	17 57.97	- 1 57.3	2.060	2.942	11.6	19.0	5 21	18 4.15	-18 19.6	1.559	2.480	12.2	20.8
5 31	17 52.00	- 1 27.5	2.002	2.935	9.4	18.9	5 31	17 56.31	-18 34.9	1.506	2.483	8.0	20.5
6 10	17 44.74	- 1 13.0	1.968	2.929	7.8	18.8	6 10	17 46.56	-18 54.4	1.478	2.486	3.6	20.3
6 20	17 36.92	- 1 16.0	1.959	2.923	7.7	18.7	6 20	17 35.98	-19 16.8	1.476	2.489	2.5	20.2
6 30	17 29.35	- 1 37.0	1.975	2.917	9.1	18.8	6 30	17 25.83	-19 41.2	1.500	2.491	6.8	20.5
7 10	17 22.83	- 2 14.4	2.015	2.912	11.4	18.9	7 10	17 17.30	-20 7.1	1.550	2.493	11.1	20.7
7 20	17 17.95	- 3 5.6	2.077	2.906	13.7	19.1	7 20	17 11.21	-20 34.5	1.621	2.494	14.8	21.0
326204	2012 <i>CG</i> ₂₁		6 16.3 194°81	3°6/16.8	17		420642	2012 <i>JO</i> ₇		6 16.4 64°52	4°4/15.7	17	
5 11	18 12.07	-32 5.0	1.642	2.480	16.1	21.0	5 11	18 8.96	-16 32.4	1.434	2.286	17.2	20.7
5 21	18 6.54	-32 19.4	1.564	2.479	12.6	20.8	5 21	18 3.68	-15 27.4	1.384	2.307	13.3	20.5
5 31	17 57.96	-32 25.8	1.507	2.477	8.7	20.6	5 31	17 55.78	-14 25.9	1.354	2.329	9.0	20.3
6 10	17 47.20	-32 20.5	1.473	2.476	4.9	20.3	6 10	17 46.24	-13 31.4	1.349	2.351	5.3	20.1
6 20	17 35.51	-32 1.4	1.466	2.474	3.9	20.3	6 20	17 36.25	-12 47.1	1.368	2.372	4.9	20.2
6 30	17 24.38	-31 29.5	1.485	2.471	7.3	20.5	6 30	17 27.09	-12 15.4	1.413	2.394	8.3	20.4
7 10	17 15.19	-30 48.7	1.528	2.469	11.4	20.7	7 10	17 19.81	-11 57.3	1.481	2.416	12.1	20.7
7 20	17 8.81	-30 4.3	1.593	2.466	15.1	20.9	7 20	17 15.06	-11 52.4	1.570	2.438	15.5	21.0
317970	2003 <i>YQ</i> ₇₂		6 16.3 240°25	1°4/16.5	17		158399	2001 <i>YP</i> ₁₀₅		6 16.4 138°39	1°6/16.3	18	
5 11	18 9.91	-27 12.0	1.682	2.526	15.5	21.4	5 11	18 8.51	-18 16.3	2.268	3.095	12.6	21.1
5 21	18 4.78	-27 12.8	1.596	2.517	12.0	21.1	5 21	18 2.68	-18 15.0	2.196	3.108	9.6	20.9
5 31	17 56.81	-27 9.2	1.531	2.509	7.9	20.9	5 31	17 54.93	-18 16.3	2.148	3.121	6.3	20.7
6 10	17 46.76	-26 59.3	1.491	2.500	3.5	20.6	6 10	17 45.91	-18 19.9	2.127	3.134	2.9	20.5
6 20	17 35.75	-26 41.9	1.477	2.490	2.2	20.5	6 20	17 36.40	-18 25.6	2.134	3.146	2.1	20.5
6 30	17 25.15	-26 18.0	1.489	2.481	6.7	20.7	6 30	17 27.30	-18 33.3	2.170	3.157	5.3	20.7
7 10	17 16.23	-25 50.4	1.526	2.471	11.1	21.0	7 10	17 19.41	-18 43.4	2.233	3.167	8.6	20.9
7 20	17 9.89	-25 22.5	1.585	2.461	15.0	21.2	7 20	17 13.33	-18 55.9	2.320	3.177	11.5	21.1
377768	2005 <i>YC</i> ₁₂₄		6 16.3 278°06	1°7/16.4	18		440438	2005 <i>SS</i> ₃₈		6 16.4 262°25	4°5/15.7	17	
5 11	18 8.01	-17 53.4	1.873	2.712	14.4	20.7	5 11	18 2.81	-11 9.4	2.329	3.155	12.3	21.6
5 21	18 3.21	-18 4.7	1.766	2.684	11.2	20.5	5 21	17 58.41	-10 33.1	2.243	3.147	9.8	21.4
5 31	17 55.83	-18 21.1	1.680	2.656	7.5	20.2	5 31	17 52.26	-10 2.6	2.179	3.140	7.1	21.2
6 10	17 46.44	-18 42.3	1.619	2.627	3.4	19.9	6 10	17 44.88	- 9 39.6	2.142	3.132	4.9	21.0
6 20	17 35.88	-19 7.3	1.585	2.598	2.4	19.7	6 20	17 36.97	- 9 25.8	2.131	3.125	4.7	21.0
6 30	17 25.30	-19 35.1	1.579	2.568	6.6	19.9	6 30	17 29.29	- 9 22.2	2.147	3.117	6.8	21.1
7 10	17 15.91	-20 5.1	1.598	2.538	11.0	20.1	7 10	17 22.61	- 9 28.7	2.189	3.109	9.5	21.3
7 20	17 8.67	-20 37.1	1.639	2.508	14.9	20.3	7 20	17 17.50	- 9 44.6	2.254	3.101	12.2	21.5
249041	2007 <i>TW</i> ₇₀		6 16.3 250°63	1°0/16.3	17		289848	2005 <i>LX</i> ₄₈		6 16.4 82°55	2°0/16.1	17	
5 11	18 8.75	-20 56.8	1.508	2.361	16.5	20.7	5 11	18 11.32	-20 58.7	1.518	2.366	16.7	20.6
5 21	18 4.07	-20 57.1	1.427	2.354	12.8	20.5	5 21	18 5.42	-20 17.8	1.465	2.389	12.7	20.4
5 31	17 56.45	-20 59.2	1.367	2.347	8.3	20.2	5 31	17 56.87	-19 36.5	1.433	2.412	8.2	20.2
6 10	17 46.65	-21 2.4	1.330	2.339	3.4	19.9	6 10	17 46.67	-18 56.3	1.426	2.434	3.6	19.9
6 20	17 35.82	-21 5.9	1.318	2.332	2.2	19.8	6 20	17 36.02	-18 18.8	1.444	2.457	2.8	19.9
6 30	17 25.37	-21 9.8	1.331	2.324	7.2	20.1	6 30	17 26.22	-17 46.4	1.489	2.479	7.0	20.3
7 10	17 16.63	-21 14.9	1.369	2.316	11.9	20.3	7 10	17 18.34	-17 21.3	1.559	2.500	11.2	20.5
7 20	17 10.56	-21 22.3	1.428	2.308	16.1	20.6	7 20	17 13.02	-17 4.6	1.650	2.521	14.7	20.8
89617	2001 <i>XG</i> ₁₉₁		6 16.3 191°92	1°0/16.3	18		185938	2000 <i>WF</i> ₃₁		6 16.4 156°96	4°2/15.4	18	
5 11	18 7.97	-20 21.7	2.235	3.065	12.6	20.6	5 11	18 3.34	-10 34.8	2.812	3.626	10.7	20.3
5 21	18 2.46	-20 20.2	2.149	3.064	9.7	20.4	5 21	17 58.40	- 9 47.1	2.734	3.631	8.5	20.2
5 31	17 54.90	-20 19.8	2.086	3.062	6.3	20.2	5 31	17 52.03	- 9 4.0	2.682	3.636	6.3	20.0
6 10	17 45.91	-20 20.1	2.050	3.059	2.6	20.0	6 10	17 44.73	- 8 27.6	2.656	3.641	4.5	19.9
6 20	17 36.29	-20 20.9	2.042	3.056	1.8	19.9	6 20	17 37.08	- 7 59.5	2.658	3.646	4.4	19.9
6 30	17 26.97	-20 22.2	2.063	3.052	5.4	20.1	6 30	17 29.71	- 7 40.8	2.689	3.650	6.1	20.0
7 10	17 18.83	-20 24.8	2.110	3.047	8.9	20.3	7 10	17 23.21	- 7 31.8	2.746	3.654	8.3	20.2
7 20	17 12.53	-20 29.3	2.182	3.042	12.0	20.5	7 20	17 18.04	- 7 32.0	2.828	3.657	10.5	20.3
306634	2000 <i>SO</i> ₁₅		6 16.4 281°92	3°0/16.8	18		320528	2007 <i>YZ</i> ₄₅		6 16.4 138°09	1°2/16.3	17	
5 11	18 6.82	-32 28.4	2.179	3.009	12.9	20.5	5 11	18 10.16	-20 2.1	1.810	2.648	14.8	22.0
5 21	18 1.87	-32 33.7	2.091	3.001	10.1	20.3	5 21	18 4.44	-20 0.6	1.740	2.659	11.3	21.8
5 31	17 54.65	-32 31.9	2.025	2.993	7.0	20.1	5 31	17 56.30	-20 1.0	1.692	2.669	7.4	21.6
6 10	17 45.84	-32 20.7	1.984	2.986	4.0	19.9	6 10	17 46.51	-20 2.8	1.669	2.678	3.1	21.4
6 20	17 36.35	-31 59.1	1.971	2.978	3.2	19.9	6 20	17 36.07	-20 5.4	1.674	2.687	2.1	21.3
6 30	17 27.22	-31 28.0	1.985	2.970	5.9	20.0	6 30	17 26.14	-20 9.0	1.705	2.695	6.2	21.6
7 10	17 19.45	-30 50.0	2.025	2.963	9.2	20.2	7 10	17 17.76	-20 14.3	1.763	2.703	10.2	21.8
7 20	17 13.74	-30 8.5	2.088	2.955	12.3	20.4	7 20	17 11.64	-20 22.0	1.843	2.710	13.6	22.1
249638	1999 <i>TP</i> ₁₄₆		6 16.4 265°27	0°1/16.4	18		359381	2010 <i>FE</i> ₅₄		6 16.4 141°55	2°9/16.6	17	
5 11	18 4.71	-23 44.4	2.575	3.406	11.1	21.6	5 11	18 13.15	-29 9.6	1.445	2.292	17.4	21.3
5 21	17 59.91	-23 46.3	2.471	3.386	8.6	21.4	5 21	18 7.61	-29 32.4	1.377	2.298	13.5	21.1
5 31	17 53.26	-23 47.4	2.391	3.367	5.5	21.2	5 31	17 58.77	-29 49.9	1.328	2.304	9.1	20.8
6 10	17 45.29	-23 46.7	2.337	3.347	2.2	20.9	6 10	17 47.59	-29 58.1	1.303	2.309	4.5	20.6
6 20	17 36.66	-23 44.0	2.312	3.327	1.3	20.8	6 20	17 35.44	-29 54.6	1.303	2.314	3.4	20.5
6 30	17 28.17	-23 39.2	2.316	3.306	4.8	21.0	6 30	17 23.97	-29 39.7	1.329	2.319	7.6	20.8
7 10	17 20.63	-23 33.4	2.347	3.285	8.1	21.2	7 10	17 14.64	-29 16.8	1.378	2.323	12.1	21.1
7 20	17 14.66	-23 27.6	2.402	3.264	11.0	21.4	7 20	17 8.36	-28 50.4	1.449	2.326	16.0	21.3
506468	2002 <i>PA</i> ₁₄₇		6 16.4 296°52	0°1/16.4	17		485169						

EPHEMERIDES

6 16.4

6 16.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
309142	2006 <i>XF</i> ₆₀		6 16.4 125°47'	0°2/16.4 18			179695	2002 <i>RL</i> ₂₁		6 16.4 210°27'	0°3/16.4 18		
5 11	18 4.92	-22 0.3	2.493	3.325	11.4	21.6	5 11	18 9.90	-23 43.0	1.980	2.814	13.8	21.1
5 21	17 59.94	-22 14.2	2.416	3.332	8.7	21.4	5 21	18 4.34	-23 51.4	1.891	2.809	10.7	20.9
5 31	17 53.19	-22 28.7	2.363	3.339	5.6	21.2	5 31	17 56.35	-23 59.1	1.826	2.802	6.9	20.7
6 10	17 45.24	-22 42.9	2.336	3.346	2.2	21.0	6 10	17 46.61	-24 4.8	1.786	2.795	2.8	20.4
6 20	17 36.80	-22 56.1	2.338	3.352	1.3	21.0	6 20	17 36.05	-24 7.3	1.773	2.788	1.6	20.3
6 30	17 28.66	-23 7.8	2.368	3.359	4.7	21.2	6 30	17 25.79	-24 6.6	1.789	2.779	5.9	20.5
7 10	17 21.57	-23 18.5	2.426	3.365	7.8	21.4	7 10	17 16.91	-24 3.8	1.830	2.771	9.8	20.8
7 20	17 16.09	-23 28.7	2.508	3.371	10.6	21.6	7 20	17 10.20	-24 0.6	1.895	2.761	13.3	21.0
179496	2002 <i>CT</i> ₆₉		6 16.4 225°31'	1°3/16.3 18			170202	2003 <i>OX</i> ₂₂		6 16.4 250°07'	8°4/16.4 18		
5 11	18 4.18	-19 10.0	2.491	3.323	11.4	20.8	5 11	18 17.11	-42 25.9	1.859	2.661	15.9	20.2
5 21	17 59.42	-19 8.0	2.402	3.317	8.8	20.6	5 21	18 11.05	-43 31.5	1.764	2.642	13.4	20.0
5 31	17 52.90	-19 7.8	2.337	3.311	5.7	20.4	5 31	18 1.37	-44 25.9	1.690	2.623	10.8	19.8
6 10	17 45.15	-19 9.3	2.298	3.305	2.6	20.2	6 10	17 48.82	-45 1.2	1.639	2.603	8.8	19.6
6 20	17 36.85	-19 12.5	2.287	3.299	1.8	20.1	6 20	17 34.72	-45 11.2	1.613	2.583	8.5	19.6
6 30	17 28.77	-19 17.4	2.305	3.293	5.0	20.3	6 30	17 20.85	-44 53.7	1.612	2.562	10.3	19.6
7 10	17 21.68	-19 24.3	2.349	3.286	8.1	20.5	7 10	17 8.97	-44 12.2	1.635	2.540	13.1	19.8
7 20	17 16.16	-19 33.6	2.418	3.280	11.0	20.7	7 20	17 0.34	-43 13.9	1.679	2.517	16.1	19.9
512565	2016 <i>SQ</i> ₂₄		6 16.4 159°39'	2°9/16.1 18			212032	2005 <i>CL</i> ₃₆		6 16.4 43°86'	1°1/16.4 17		
5 11	18 2.76	-12 45.6	3.017	3.834	10.0	22.2	5 11	18 7.73	-20 22.3	1.210	2.078	18.8	20.0
5 21	17 57.92	-12 31.0	2.937	3.839	7.8	22.0	5 21	18 3.53	-20 30.4	1.157	2.091	14.4	19.7
5 31	17 51.72	-12 20.7	2.882	3.845	5.5	21.9	5 31	17 56.14	-20 41.9	1.122	2.105	9.3	19.5
6 10	17 44.63	-12 15.6	2.854	3.850	3.4	21.7	6 10	17 46.55	-20 55.7	1.110	2.120	3.8	19.2
6 20	17 37.17	-12 16.0	2.854	3.854	3.1	21.7	6 20	17 36.16	-21 10.4	1.120	2.135	2.3	19.2
6 30	17 29.95	-12 22.3	2.884	3.859	5.0	21.9	6 30	17 26.57	-21 25.5	1.155	2.150	7.6	19.5
7 10	17 23.53	-12 34.1	2.941	3.862	7.3	22.0	7 10	17 19.12	-21 41.2	1.213	2.166	12.5	19.8
7 20	17 18.35	-12 51.1	3.022	3.866	9.5	22.2	7 20	17 14.65	-21 58.2	1.290	2.183	16.7	20.1
123026	2000 <i>SZ</i> ₂₇₉		6 16.4 264°90'	4°8/16.5 18			7159	Bobjoseph		6 16.4 274°45'	2°9/16.0 18		
5 11	18 6.57	-9 42.9	1.939	2.765	14.4	20.0	5 11	18 7.84	-18 25.5	1.537	2.388	16.3	17.9
5 21	18 1.80	-9 39.6	1.844	2.748	11.6	19.7	5 21	18 3.43	-17 55.2	1.445	2.369	12.8	17.6
5 31	17 54.74	-9 46.5	1.770	2.731	8.4	19.5	5 31	17 56.13	-17 26.2	1.373	2.351	8.6	17.3
6 10	17 45.98	-10 5.3	1.720	2.714	5.6	19.3	6 10	17 46.64	-16 59.8	1.325	2.331	4.3	17.0
6 20	17 36.33	-10 36.2	1.697	2.696	5.1	19.2	6 20	17 36.02	-16 37.5	1.302	2.312	3.6	16.9
6 30	17 26.81	-11 18.6	1.701	2.678	7.6	19.3	6 30	17 25.63	-16 21.1	1.304	2.292	7.9	17.1
7 10	17 18.44	-12 10.6	1.731	2.659	11.1	19.5	7 10	17 16.81	-16 12.3	1.330	2.273	12.6	17.3
7 20	17 12.02	-13 9.9	1.783	2.641	14.4	19.7	7 20	17 10.55	-16 12.0	1.377	2.253	16.8	17.6
91122	1998 <i>HE</i> ₁₁₂		6 16.4 121°58'	4°6/16.5 18			261011	2005 <i>SU</i> ₁₀₄		6 16.4 241°46'	4°4/16.5 18		
5 11	18 7.83	-8 58.5	2.175	2.989	13.5	19.5	5 11	18 7.91	-35 36.2	2.438	3.254	12.1	20.8
5 21	18 2.15	-8 50.6	2.110	3.007	10.7	19.4	5 21	18 2.68	-36 18.7	2.351	3.248	9.7	20.7
5 31	17 54.58	-8 52.0	2.067	3.023	7.7	19.2	5 31	17 55.23	-36 54.7	2.286	3.242	7.1	20.5
6 10	17 45.79	-9 3.6	2.050	3.039	5.3	19.1	6 10	17 46.16	-37 20.7	2.248	3.236	5.0	20.3
6 20	17 36.54	-9 25.5	2.061	3.055	4.8	19.1	6 20	17 36.33	-37 34.1	2.236	3.229	4.6	20.3
6 30	17 27.71	-9 57.1	2.100	3.070	6.8	19.3	6 30	17 26.76	-37 34.2	2.252	3.223	6.4	20.4
7 10	17 20.09	-10 36.7	2.164	3.084	9.6	19.5	7 10	17 18.42	-37 22.5	2.294	3.216	9.0	20.5
7 20	17 14.25	-11 22.5	2.253	3.098	12.3	19.7	7 20	17 12.06	-37 2.2	2.359	3.209	11.6	20.7
106666	2000 <i>WL</i> ₁₄₆		6 16.4 107°10'	7°1/15.3 18			87741	2000 <i>SP</i> ₆₃		6 16.4 232°02'	1°3/16.3 18		
5 11	18 3.10	+ 0 40.5	2.814	3.590	11.7	19.7	5 11	18 7.03	-19 51.3	1.920	2.760	14.0	19.7
5 21	17 58.13	+ 1 40.1	2.758	3.611	9.9	19.6	5 21	18 2.14	-19 50.0	1.835	2.755	10.8	19.5
5 31	17 51.81	+ 2 28.6	2.725	3.631	8.3	19.6	5 31	17 54.93	-19 50.7	1.771	2.749	7.0	19.3
6 10	17 44.65	+ 3 3.0	2.717	3.650	7.3	19.5	6 10	17 46.06	-19 53.1	1.734	2.742	3.0	19.0
6 20	17 37.21	+ 3 21.7	2.735	3.669	7.3	19.5	6 20	17 36.41	-19 56.9	1.723	2.736	2.1	18.9
6 30	17 30.10	+ 3 24.1	2.780	3.688	8.2	19.6	6 30	17 27.07	-20 2.0	1.739	2.729	6.1	19.2
7 10	17 23.88	+ 3 11.3	2.849	3.706	9.7	19.8	7 10	17 19.05	-20 9.1	1.781	2.722	10.0	19.4
7 20	17 18.96	+ 2 45.2	2.940	3.724	11.2	19.9	7 20	17 13.11	-20 18.7	1.845	2.715	13.5	19.6
80242	1999 <i>WT</i>		6 16.4 204°19'	2°0/16.5 18			293195	2007 <i>BK</i> ₂		6 16.4 102°00'	2°4/16.6 18		
5 11	18 11.47	-28 1.0	2.024	2.854	13.8	20.6	5 11	18 6.22	-30 40.5	2.474	3.300	11.7	20.5
5 21	18 5.59	-28 22.9	1.937	2.849	10.7	20.4	5 21	18 1.04	-30 55.5	2.400	3.310	9.0	20.3
5 31	17 57.18	-28 41.6	1.871	2.844	7.1	20.2	5 31	17 53.94	-31 5.6	2.350	3.320	6.1	20.1
6 10	17 46.94	-28 54.4	1.832	2.838	3.4	19.9	6 10	17 45.58	-31 9.0	2.326	3.329	3.3	20.0
6 20	17 35.85	-28 59.3	1.820	2.831	2.5	19.8	6 20	17 36.73	-31 4.6	2.330	3.339	2.6	19.9
6 30	17 25.07	-28 56.0	1.836	2.823	6.1	20.0	6 30	17 28.27	-30 52.7	2.363	3.348	5.1	20.1
7 10	17 15.73	-28 46.1	1.878	2.815	9.8	20.3	7 10	17 21.00	-30 35.1	2.421	3.357	8.0	20.3
7 20	17 8.65	-28 32.4	1.943	2.806	13.2	20.5	7 20	17 15.50	-30 14.1	2.505	3.366	10.6	20.5
66571	1999 <i>RP</i> ₁₄₇		6 16.4 168°51'	0°3/16.4 18			418970	2009 <i>HA</i> ₅₆		6 16.4 20°41'	10°4/16.1 17		
5 11	18 10.14	-25 19.6	1.629	2.475	15.8	18.9	5 11	18 11.60	-39 59.2	1.208	2.055	20.1	20.8
5 21	18 4.84	-25 4.3	1.553	2.476	12.2	18.7	5 21	18 7.81	-41 47.1	1.152	2.059	16.8	20.6
5 31	17 56.76	-24 45.3	1.499	2.478	7.9	18.4	5 31	17 59.69	-43 22.2	1.114	2.064	13.4	20.4
6 10	17 46.76	-24 21.6	1.469	2.479	3.2	18.1	6 10	17 48.21	-44 33.4	1.096	2.070	10.9	20.3
6 20	17 35.98	-23 53.5	1.466	2.480	1.8	18.0	6 20	17 35.17	-45 12.3	1.100	2.077	10.6	20.3
6 30	17 25.76	-23 22.6	1.488	2.481	6.6	18.3	6 30	17 22.88	-45 16.4	1.125	2.084	12.7	20.4
7 10	17 17.30	-22 52.0	1.536	2.481	11.0	18.6	7 10	17 13.46	-44 51.1	1.171	2.093	15.8	20.6
7 20	17 11.40	-22 24.5	1.606	2.481	14.8	18.8	7 20	17 8.14	-44 5.8	1.235	2.102	18.9	20.8
519720	2013 <i>BF</i> ₈₄		6 16.4 145°73'	4°6/17.0 18			477643	2010 <i>MO</i> ₇₄		6			

EPHEMERIDES

6 16.4

6 16.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
498640	2008 <i>SO</i> ₂₅	6 16.4 179°72		7°2/17.1 18			179292	2001 <i>VR</i> ₅₃	6 16.4 176°26		2°1/16.6 18		
5 11	18 15.99	-45 36.2	2.543	3.316	12.9	21.9	5 11	18 7.06	-30 16.0	2.873	3.691	10.4	21.4
5 21	18 9.03	-46 26.6	2.463	3.317	10.9	21.7	5 21	18 1.48	-30 34.0	2.788	3.693	8.1	21.2
5 31	17 59.38	-47 4.5	2.406	3.318	9.0	21.6	5 31	17 54.18	-30 47.9	2.727	3.695	5.5	21.1
6 10	17 47.83	-47 24.9	2.373	3.319	7.5	21.5	6 10	17 45.69	-30 56.0	2.693	3.696	2.9	20.9
6 20	17 35.44	-47 24.5	2.366	3.318	7.2	21.5	6 20	17 36.71	-30 57.3	2.689	3.697	2.3	20.8
6 30	17 23.51	-47 3.0	2.385	3.318	8.3	21.6	6 30	17 27.99	-30 51.6	2.713	3.697	4.6	21.0
7 10	17 13.23	-46 23.7	2.430	3.316	10.1	21.7	7 10	17 20.28	-30 40.3	2.765	3.697	7.3	21.2
7 20	17 5.40	-45 31.5	2.499	3.314	12.1	21.8	7 20	17 14.13	-30 25.2	2.842	3.696	9.8	21.3
97651	2000 <i>FQ</i> ₃	6 16.4 62°72		6°7/16.5 18			206861	2004 <i>FM</i> ₅₆	6 16.4 25°77		5°2/15.8 17		
5 11	18 4.36	-4 56.6	1.950	2.767	14.7	18.7	5 11	18 3.37	-9 45.8	2.090	2.918	13.5	20.3
5 21	17 59.83	-4 35.8	1.880	2.772	12.0	18.5	5 21	17 58.99	-9 8.2	2.014	2.918	10.8	20.1
5 31	17 53.28	-4 27.8	1.831	2.777	9.3	18.4	5 31	17 52.71	-8 38.2	1.961	2.919	7.9	19.9
6 10	17 45.35	-4 35.1	1.806	2.782	7.2	18.2	6 10	17 45.14	-8 18.0	1.932	2.919	5.7	19.8
6 20	17 36.87	-4 58.5	1.807	2.788	6.8	18.2	6 20	17 37.03	-8 9.5	1.929	2.920	5.5	19.8
6 30	17 28.74	-5 37.4	1.833	2.793	8.5	18.3	6 30	17 29.24	-8 13.1	1.953	2.921	7.5	19.9
7 10	17 21.83	-6 29.5	1.884	2.799	11.1	18.5	7 10	17 22.58	-8 28.6	2.002	2.922	10.3	20.1
7 20	17 16.76	-7 31.6	1.958	2.804	13.8	18.7	7 20	17 17.65	-8 54.4	2.074	2.923	13.0	20.3
509847	2008 <i>YX</i> ₈₇	6 16.4 240°74		2°7/16.4 18			446606	2015 <i>MF</i> ₄₇	6 16.4 304°12		0°5/16.4 18		
5 11	18 6.81	-14 13.7	2.284	3.108	12.6	21.4	5 11	18 3.82	-21 3.2	2.130	2.972	12.7	21.0
5 21	18 1.67	-14 22.5	2.186	3.095	9.8	21.2	5 21	17 59.60	-21 13.4	2.037	2.958	9.8	20.7
5 31	17 54.52	-14 37.7	2.112	3.081	6.7	21.0	5 31	17 53.28	-21 25.5	1.966	2.944	6.4	20.5
6 10	17 45.90	-14 59.3	2.064	3.066	3.6	20.8	6 10	17 45.44	-21 38.6	1.920	2.930	2.6	20.2
6 20	17 36.53	-15 26.9	2.044	3.052	3.0	20.7	6 20	17 36.84	-21 51.9	1.902	2.916	1.6	20.1
6 30	17 27.29	-15 59.6	2.052	3.036	5.9	20.8	6 30	17 28.43	-22 5.0	1.910	2.902	5.5	20.4
7 10	17 19.07	-16 36.5	2.087	3.020	9.2	21.0	7 10	17 21.13	-22 18.2	1.945	2.889	9.2	20.6
7 20	17 12.56	-17 16.6	2.147	3.004	12.3	21.2	7 20	17 15.66	-22 31.7	2.003	2.875	12.5	20.7
403231	2008 <i>UU</i> ₂₈₆	6 16.4 155°71		0°4/16.4 17			340422	2006 <i>FD</i> ₂₀	6 16.4 359°59		8°2/16.0 17		
5 11	18 12.23	-21 43.5	1.618	2.460	16.1	21.8	5 11	18 9.05	-38 41.3	1.537	2.373	17.1	19.5
5 21	18 6.44	-21 54.0	1.545	2.467	12.3	21.5	5 21	18 5.01	-40 8.9	1.468	2.371	14.1	19.3
5 31	17 57.83	-22 5.9	1.495	2.473	8.0	21.3	5 31	17 57.48	-41 27.0	1.419	2.370	11.0	19.1
6 10	17 47.23	-22 17.6	1.468	2.478	3.2	21.0	6 10	17 47.28	-42 27.6	1.392	2.369	8.7	19.0
6 20	17 35.80	-22 27.7	1.469	2.483	1.9	20.9	6 20	17 35.78	-43 4.3	1.389	2.369	8.5	19.0
6 30	17 24.89	-22 35.9	1.496	2.487	6.7	21.3	6 30	17 24.72	-43 14.9	1.409	2.370	10.4	19.1
7 10	17 15.74	-22 42.9	1.548	2.491	11.1	21.5	7 10	17 15.78	-43 2.4	1.452	2.372	13.4	19.3
7 20	17 9.19	-22 50.4	1.622	2.494	14.9	21.8	7 20	17 10.07	-42 33.0	1.515	2.374	16.4	19.5
284287	2006 <i>KO</i> ₂₂	6 16.4 354°42		4°3/16.6 17			346692	2008 <i>YU</i> ₁₂₀	6 16.4 5°35		0°5/16.4 17		
5 11	18 3.72	-11 53.0	1.569	2.417	16.2	19.8	5 11	18 5.42	-23 48.2	1.716	2.567	14.9	20.6
5 21	17 59.97	-11 58.3	1.494	2.414	12.8	19.5	5 21	18 1.20	-24 3.5	1.641	2.568	11.4	20.4
5 31	17 53.70	-12 14.8	1.440	2.411	8.9	19.3	5 31	17 54.46	-24 18.7	1.588	2.568	7.4	20.2
6 10	17 45.62	-12 43.3	1.409	2.409	5.4	19.1	6 10	17 45.92	-24 32.2	1.559	2.569	3.0	19.9
6 20	17 36.70	-13 23.2	1.402	2.408	4.6	19.0	6 20	17 36.61	-24 42.7	1.556	2.570	1.7	19.8
6 30	17 28.13	-14 12.8	1.421	2.407	7.7	19.2	6 30	17 27.70	-24 49.7	1.578	2.572	6.2	20.1
7 10	17 21.02	-15 9.7	1.464	2.407	11.6	19.4	7 10	17 20.31	-24 54.1	1.626	2.574	10.3	20.4
7 20	17 16.20	-16 11.1	1.528	2.407	15.3	19.7	7 20	17 15.22	-24 57.5	1.695	2.576	13.9	20.6
7077	Shermanschultz	6 16.4 207°06		0°5/16.3 18			478172	2011 <i>UM</i> ₁₈₃	6 16.4 152°70		2°2/15.9 16		
5 11	18 3.89	-21 41.0	2.896	3.723	10.1	18.7	5 11	18 4.18	-17 20.1	2.875	3.698	10.3	21.8
5 21	17 58.99	-21 40.1	2.805	3.718	7.7	18.5	5 21	17 59.06	-16 43.3	2.795	3.704	7.9	21.6
5 31	17 52.55	-21 39.2	2.738	3.713	5.0	18.4	5 31	17 52.50	-16 7.5	2.741	3.711	5.3	21.5
6 10	17 45.04	-21 38.2	2.699	3.708	2.0	18.1	6 10	17 45.01	-15 34.0	2.714	3.717	2.9	21.3
6 20	17 37.06	-21 36.7	2.688	3.702	1.2	18.1	6 20	17 37.17	-15 3.8	2.716	3.722	2.5	21.3
6 30	17 29.29	-21 35.0	2.707	3.696	4.2	18.3	6 30	17 29.64	-14 38.2	2.747	3.727	4.8	21.5
7 10	17 22.38	-21 33.7	2.753	3.689	7.1	18.5	7 10	17 23.00	-14 18.1	2.806	3.732	7.4	21.6
7 20	17 16.84	-21 33.3	2.824	3.683	9.7	18.6	7 20	17 17.72	-14 3.9	2.890	3.737	9.8	21.8
132305	2002 <i>GG</i> ₁₁	6 16.4 293°00		7°8/15.3 18			364585	2007 <i>RF</i> ₁₁₈	6 16.4 273°70		0°1/16.4 17		
5 11	18 4.06	-5 23.2	1.821	2.645	15.3	19.9	5 11	18 9.32	-23 59.9	1.496	2.348	16.6	21.2
5 21	17 59.79	-4 20.7	1.746	2.640	12.7	19.7	5 21	18 4.83	-23 56.1	1.403	2.330	12.9	20.9
5 31	17 53.37	-3 29.1	1.692	2.636	10.0	19.5	5 31	17 57.21	-23 50.7	1.331	2.311	8.5	20.6
6 10	17 45.43	-2 52.5	1.661	2.632	8.2	19.4	6 10	17 47.17	-23 42.1	1.281	2.291	3.4	20.3
6 20	17 36.84	-2 34.1	1.655	2.627	8.1	19.4	6 20	17 35.86	-23 29.6	1.257	2.272	2.0	20.1
6 30	17 28.57	-2 35.4	1.673	2.623	9.9	19.5	6 30	17 24.78	-23 13.9	1.258	2.252	7.4	20.4
7 10	17 21.58	-2 55.6	1.715	2.619	12.6	19.6	7 10	17 15.41	-22 57.2	1.283	2.232	12.4	20.6
7 20	17 16.53	-3 31.9	1.777	2.615	15.3	19.8	7 20	17 8.84	-22 42.4	1.329	2.212	16.9	20.8
19788	Hunker	6 16.4 177°63		3°4/16.3 18			337113	1999 <i>RU</i> ₁₉₂	6 16.4 251°81		3°0/16.1 18		
5 11	18 7.05	-12 59.6	2.273	3.095	12.7	19.2	5 11	18 6.78	-14 41.3	2.414	3.236	12.0	22.6
5 21	18 1.67	-12 51.1	2.191	3.097	9.9	19.0	5 21	18 1.59	-14 24.8	2.307	3.214	9.5	22.4
5 31	17 54.39	-12 48.7	2.133	3.099	6.9	18.8	5 31	17 54.47	-14 12.1	2.223	3.191	6.5	22.2
6 10	17 45.80	-12 53.1	2.101	3.099	4.1	18.6	6 10	17 45.91	-14 4.2	2.166	3.167	3.8	21.9
6 20	17 36.64	-13 4.4	2.097	3.100	3.7	18.6	6 20	17 36.62	-14 1.7	2.137	3.142	3.3	21.9
6 30	17 27.77	-13 22.5	2.120	3.099	6.1	18.8	6 30	17 27.42	-14 5.1	2.137	3.117	6.0	22.0
7 10	17 20.00	-13 46.9	2.171	3.099	9.2	19.0	7 10	17 19.15	-14 14.8	2.164	3.091	9.2	22.1
7 20	17 13.95	-14 16.5	2.245	3.097	12.1	19.1	7 20	17 12.50	-14 30.4	2.214	3.064	12.3	22.3
185981	2001 <i>MN</i> ₃₀	6 16.4 332°87		4°6/16.2 18			105407	2000 <i>QE</i> ₁₅₃	6 16.4 259°37		3°6/16.9 18		
5 11	18 3.79	-14 6.9	1.354										

EPHEMERIDES

6 16.4

6 16.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
95343	2002 <i>CM</i> ₁₃₃		6 16.4 151°09	7°5/17.3	18		129626	1998 <i>HN</i> ₁		6 16.4 121°84	16°1/12.6	18	
5 11	18 13.62	-42 23.0	1.913	2.718	15.4	19.7	5 11	18 10.99	+ 2 38.8	1.194	2.011	22.1	19.5
5 21	18 7.79	-43 8.1	1.839	2.720	12.8	19.6	5 21	18 5.83	+ 5 30.7	1.148	2.019	19.5	19.3
5 31	17 58.85	-43 39.7	1.786	2.722	10.1	19.4	5 31	17 57.56	+ 8 1.2	1.121	2.027	17.3	19.2
6 10	17 47.71	-43 52.0	1.756	2.724	8.0	19.3	6 10	17 47.19	+ 9 57.5	1.113	2.035	16.2	19.1
6 20	17 35.66	-43 41.6	1.751	2.726	7.6	19.2	6 20	17 36.04	+11 10.7	1.125	2.043	16.5	19.2
6 30	17 24.22	-43 8.6	1.772	2.728	9.0	19.3	6 30	17 25.65	+11 37.2	1.157	2.050	18.1	19.3
7 10	17 14.78	-42 17.4	1.817	2.729	11.6	19.5	7 10	17 17.32	+11 20.7	1.206	2.057	20.3	19.5
7 20	17 8.22	-41 14.5	1.883	2.730	14.2	19.7	7 20	17 11.89	+10 29.3	1.270	2.063	22.6	19.7
419733	2010 <i>VY</i> ₄₆		6 16.4 121°49	0°1/16.4	17		373556	2001 <i>VX</i> ₃₀		6 16.4 181°45	0°8/16.5	18	
5 11	18 10.17	-24 27.4	1.742	2.584	15.1	21.4	5 11	18 9.65	-25 21.9	2.305	3.132	12.4	21.9
5 21	18 4.60	-24 11.5	1.673	2.594	11.6	21.2	5 21	18 3.81	-25 34.6	2.220	3.133	9.5	21.7
5 31	17 56.49	-23 52.8	1.626	2.604	7.5	21.0	5 31	17 55.88	-25 45.6	2.159	3.134	6.2	21.5
6 10	17 46.69	-23 30.7	1.603	2.613	3.0	20.7	6 10	17 46.47	-25 53.2	2.125	3.134	2.6	21.3
6 20	17 36.27	-23 5.6	1.608	2.622	1.7	20.6	6 20	17 36.43	-25 56.5	2.119	3.133	1.6	21.2
6 30	17 26.44	-22 39.1	1.639	2.631	6.2	21.0	6 30	17 26.71	-25 55.3	2.142	3.131	5.2	21.5
7 10	17 18.29	-22 13.6	1.696	2.639	10.3	21.2	7 10	17 18.21	-25 50.9	2.192	3.129	8.6	21.7
7 20	17 12.52	-21 51.3	1.775	2.647	13.8	21.5	7 20	17 11.60	-25 44.8	2.266	3.127	11.7	21.9
509784	2008 <i>UR</i> ₁₈₅		6 16.4 269°71	0°6/16.4	18		252899	2002 <i>JF</i> ₁₁₈		6 16.4 75°35	11°6/15.1	18	
5 11	18 7.72	-24 13.5	2.007	2.845	13.5	22.2	5 11	18 2.18	+12 36.1	2.421	3.147	14.6	20.1
5 21	18 2.86	-24 25.5	1.906	2.825	10.5	21.9	5 21	17 57.80	+13 55.2	2.370	3.158	13.3	20.0
5 31	17 55.57	-24 37.1	1.827	2.804	6.9	21.7	5 31	17 51.83	+14 55.0	2.338	3.168	12.3	20.0
6 10	17 46.43	-24 46.7	1.773	2.782	2.8	21.4	6 10	17 44.81	+15 31.2	2.328	3.179	11.7	20.0
6 20	17 36.33	-24 52.9	1.746	2.761	1.7	21.2	6 20	17 37.41	+15 41.3	2.338	3.190	11.7	20.0
6 30	17 26.36	-24 55.4	1.747	2.738	5.9	21.5	6 30	17 30.34	+15 25.0	2.371	3.201	12.2	20.0
7 10	17 17.62	-24 55.0	1.774	2.716	10.0	21.7	7 10	17 24.26	+14 44.5	2.423	3.211	13.2	20.1
7 20	17 10.98	-24 53.4	1.824	2.693	13.6	21.8	7 20	17 19.68	+13 43.7	2.495	3.222	14.4	20.2
433993	2000 <i>LY</i> ₂₃		6 16.4 332°70	6°8/13.8	18		294382	2007 <i>VB</i> ₁₄₄		6 16.4 224°73	1°2/16.3	18	
5 11	18 2.02	-18 4.5	1.186	2.063	18.5	18.5	5 11	18 5.48	-19 59.1	2.196	3.032	12.6	21.5
5 21	17 59.55	-15 54.5	1.101	2.038	14.6	18.2	5 21	18 0.69	-19 53.9	2.111	3.028	9.7	21.3
5 31	17 53.89	-13 34.7	1.036	2.015	10.4	17.9	5 31	17 53.90	-19 50.1	2.048	3.024	6.3	21.0
6 10	17 45.86	-11 12.6	0.993	1.993	7.1	17.6	6 10	17 45.71	-19 47.5	2.011	3.020	2.7	20.8
6 20	17 36.66	- 8 58.5	0.973	1.972	7.7	17.6	6 20	17 36.89	-19 46.2	2.002	3.015	1.9	20.7
6 30	17 27.84	- 7 3.2	0.976	1.953	11.8	17.7	6 30	17 28.35	-19 46.3	2.021	3.011	5.4	21.0
7 10	17 20.88	- 5 34.3	1.000	1.935	16.5	17.9	7 10	17 20.96	-19 48.5	2.066	3.006	8.9	21.2
7 20	17 16.79	- 4 34.8	1.041	1.919	20.9	18.1	7 20	17 15.36	-19 53.3	2.135	3.001	12.1	21.4
514556	2017 <i>WJ</i> ₉		6 16.4 115°74	0°2/16.4	18		387954	2005 <i>GE</i> ₁₅		6 16.4 118°15	2°0/16.6	17	
5 11	18 6.28	-25 25.4	2.765	3.589	10.6	21.6	5 11	18 7.69	-28 20.5	2.026	2.862	13.5	21.7
5 21	18 0.70	-25 5.7	2.694	3.606	8.1	21.4	5 21	18 2.62	-28 37.1	1.949	2.865	10.4	21.5
5 31	17 53.56	-24 43.2	2.647	3.622	5.2	21.2	5 31	17 55.24	-28 49.9	1.895	2.869	6.9	21.3
6 10	17 45.44	-24 17.8	2.629	3.638	2.1	21.0	6 10	17 46.25	-28 56.8	1.866	2.873	3.3	21.1
6 20	17 36.99	-23 49.9	2.639	3.654	1.2	21.0	6 20	17 36.60	-28 56.4	1.865	2.876	2.4	21.0
6 30	17 28.96	-23 20.6	2.679	3.669	4.3	21.2	6 30	17 27.35	-28 48.8	1.890	2.879	5.8	21.2
7 10	17 21.98	-22 51.7	2.747	3.684	7.1	21.4	7 10	17 19.52	-28 35.7	1.942	2.883	9.3	21.5
7 20	17 16.52	-22 24.7	2.840	3.698	9.6	21.6	7 20	17 13.81	-28 19.8	2.016	2.886	12.5	21.7
93757	2000 <i>WE</i> ₁₄		6 16.4 51°85	0°3/16.5	18		353623	2011 <i>UM</i> ₄₈		6 16.4 129°11	2°7/15.9	18	
5 11	18 5.79	-25 53.3	2.031	2.872	13.3	18.9	5 11	18 4.13	-16 53.9	2.307	3.140	12.2	20.4
5 21	18 0.90	-25 32.9	1.965	2.886	10.1	18.7	5 21	17 59.43	-16 19.6	2.228	3.143	9.4	20.2
5 31	17 53.94	-25 8.7	1.922	2.900	6.5	18.5	5 31	17 52.96	-15 47.4	2.173	3.145	6.3	20.1
6 10	17 45.64	-24 40.8	1.905	2.914	2.6	18.3	6 10	17 45.29	-15 18.4	2.144	3.147	3.5	19.9
6 20	17 36.90	-24 9.7	1.914	2.929	1.5	18.2	6 20	17 37.15	-14 54.1	2.143	3.150	3.1	19.9
6 30	17 28.69	-23 37.0	1.951	2.943	5.3	18.5	6 30	17 29.35	-14 35.5	2.169	3.152	5.7	20.0
7 10	17 21.87	-23 5.0	2.015	2.958	8.9	18.8	7 10	17 22.63	-14 23.6	2.222	3.154	8.8	20.2
7 20	17 17.03	-22 35.9	2.101	2.974	12.0	19.0	7 20	17 17.55	-14 18.6	2.298	3.156	11.6	20.4
262930	2007 <i>DF</i> ₁₂		6 16.4 150°23	4°2/16.1	18		438194	2005 <i>UR</i> ₄₈		6 16.4 242°07	0°1/16.4	18	
5 11	18 2.82	-10 4.0	2.470	3.290	11.9	20.7	5 11	18 4.84	-24 17.5	2.567	3.398	11.2	22.1
5 21	17 58.31	- 9 43.6	2.391	3.292	9.4	20.5	5 21	17 59.99	-24 11.1	2.473	3.388	8.6	21.9
5 31	17 52.18	- 9 30.2	2.336	3.294	6.9	20.3	5 31	17 53.36	-24 3.0	2.403	3.378	5.5	21.7
6 10	17 44.95	- 9 25.1	2.306	3.296	4.7	20.2	6 10	17 45.48	-23 52.6	2.359	3.368	2.2	21.5
6 20	17 37.26	- 9 29.1	2.304	3.297	4.4	20.2	6 20	17 37.03	-23 39.8	2.344	3.358	1.2	21.4
6 30	17 29.83	- 9 42.4	2.329	3.299	6.3	20.3	6 30	17 28.82	-23 25.2	2.357	3.348	4.7	21.6
7 10	17 23.36	-10 4.4	2.380	3.300	8.8	20.5	7 10	17 21.61	-23 10.1	2.398	3.337	7.9	21.8
7 20	17 18.35	-10 33.7	2.455	3.302	11.3	20.6	7 20	17 15.99	-22 55.7	2.463	3.326	10.7	21.9
330634	Boico		6 16.4 171°70	2°3/16.2	17		494321	2016 <i>TU</i> ₁		6 16.4 340°49	5°6/16.3	16	
5 11	18 8.45	-18 40.1	1.748	2.591	15.0	21.7	5 11	18 4.41	-33 4.2	1.419	2.277	17.1	20.2
5 21	18 3.32	-18 16.5	1.672	2.592	11.6	21.5	5 21	18 1.48	-34 1.0	1.339	2.263	13.6	20.0
5 31	17 55.73	-17 54.7	1.618	2.594	7.7	21.3	5 31	17 55.25	-34 52.2	1.279	2.250	9.8	19.7
6 10	17 46.43	-17 35.6	1.588	2.595	3.7	21.0	6 10	17 46.48	-35 31.9	1.241	2.238	6.5	19.5
6 20	17 36.43	-17 19.9	1.585	2.596	2.9	21.0	6 20	17 36.41	-35 55.1	1.226	2.228	5.9	19.4
6 30	17 26.87	-17 8.8	1.608	2.596	6.7	21.2	6 30	17 26.66	-35 59.8	1.235	2.218	8.9	19.6
7 10	17 18.82	-17 3.4	1.657	2.596	10.7	21.4	7 10	17 18.85	-35 48.3	1.265	2.210	12.9	19.8
7 20	17 13.03	-17 4.2	1.728	2.596	14.3	21.7	7 20	17 14.07	-35 25.2	1.316	2.202	16.8	20.0
505486	2013 <i>WG</i> ₃		6 16.4 237°90	3°0/16.6	18		137811						

EPHEMERIDES

6 16.4

6 16.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
474319	2002 CQ ₁₈₇		6 16.4 141°61'	3°0/16.3 17			99495	2002 CD ₂₄₀		6 16.4 181°05'	1°8/16.6 17		
5 11	18 4.08	-12 10.5	2.882	3.697	10.5	22.5	5 11	18 13.10	-28 6.5	1.879	2.710	14.6	20.8
5 21	17 59.01	-12 3.0	2.807	3.708	8.2	22.4	5 21	18 6.95	-28 14.1	1.798	2.712	11.3	20.5
5 31	17 52.52	-12 0.8	2.756	3.718	5.7	22.2	5 31	17 58.15	-28 17.2	1.739	2.712	7.5	20.3
6 10	17 45.09	-12 4.4	2.733	3.728	3.6	22.1	6 10	17 47.48	-28 13.3	1.706	2.713	3.5	20.1
6 20	17 37.30	-12 14.0	2.738	3.738	3.2	22.1	6 20	17 36.02	-28 1.2	1.700	2.712	2.3	20.0
6 30	17 29.76	-12 29.4	2.771	3.747	5.1	22.2	6 30	17 25.02	-27 41.6	1.721	2.710	6.2	20.2
7 10	17 23.09	-12 50.2	2.833	3.755	7.5	22.4	7 10	17 15.65	-27 16.9	1.769	2.708	10.2	20.5
7 20	17 17.72	-13 15.6	2.919	3.764	9.8	22.5	7 20	17 8.71	-26 50.6	1.840	2.705	13.7	20.7
504950	2011 ED ₆₆		6 16.4 295°45'	9°2/16.9 18			258848	2002 PD ₉₅		6 16.4 300°61'	3°3/16.4 17		
5 11	18 13.42	-43 52.4	1.698	2.507	16.8	20.9	5 11	18 8.27	-28 22.4	1.430	2.286	17.1	20.3
5 21	18 8.36	-44 56.9	1.619	2.500	14.3	20.7	5 21	18 4.58	-29 0.9	1.331	2.257	13.5	20.0
5 31	17 59.68	-45 47.2	1.560	2.492	11.7	20.6	5 31	17 57.46	-29 38.2	1.251	2.229	9.2	19.6
6 10	17 48.24	-46 15.7	1.523	2.484	9.7	20.4	6 10	17 47.52	-30 9.9	1.195	2.201	4.8	19.3
6 20	17 35.47	-46 16.8	1.510	2.477	9.3	20.4	6 20	17 35.88	-30 31.4	1.162	2.172	3.9	19.2
6 30	17 23.23	-45 49.4	1.520	2.469	10.8	20.5	6 30	17 24.23	-30 40.4	1.154	2.144	8.3	19.3
7 10	17 13.23	-44 58.2	1.553	2.462	13.4	20.6	7 10	17 14.30	-30 38.0	1.168	2.117	13.4	19.5
7 20	17 6.58	-43 50.8	1.607	2.455	16.2	20.8	7 20	17 7.44	-30 27.8	1.202	2.089	18.0	19.7
335107	2004 TN ₁₆₅		6 16.4 291°68'	4°4/15.8 12 C			480566	2015 MQ ₆₉		6 16.4 214°32'	3°2/16.2 18		
5 11	18 5.32	-14 44.4	1.707	2.552	15.2	21.6	5 11	18 3.44	-11 49.9	2.898	3.713	10.4	21.9
5 21	18 1.23	-14 1.5	1.611	2.530	12.1	21.4	5 21	17 58.65	-11 39.7	2.806	3.706	8.2	21.8
5 31	17 54.63	-13 21.9	1.537	2.509	8.5	21.1	5 31	17 52.39	-11 34.8	2.738	3.699	5.8	21.6
6 10	17 46.14	-12 48.2	1.487	2.487	5.2	20.9	6 10	17 45.11	-11 36.0	2.697	3.691	3.7	21.4
6 20	17 36.67	-12 22.8	1.461	2.465	4.9	20.8	6 20	17 37.37	-11 43.5	2.684	3.683	3.4	21.4
6 30	17 27.38	-12 7.9	1.462	2.443	8.1	20.9	6 30	17 29.79	-11 57.6	2.700	3.674	5.3	21.5
7 10	17 19.41	-12 4.4	1.486	2.421	12.1	21.1	7 10	17 23.00	-12 17.8	2.743	3.665	7.7	21.7
7 20	17 13.64	-12 12.4	1.532	2.399	15.9	21.3	7 20	17 17.49	-12 43.4	2.811	3.656	10.1	21.8
217413	2005 ND ₈₇		6 16.4 208°80'	0°4/16.5 17			384569	2010 GA ₁₂₂		6 16.4 40°65'	3°3/16.3 17		
5 11	18 9.75	-24 34.7	2.038	2.871	13.5	21.8	5 11	18 4.96	-14 56.1	1.910	2.750	14.1	20.9
5 21	18 4.21	-24 35.2	1.949	2.866	10.4	21.6	5 21	18 0.48	-14 40.1	1.835	2.751	11.0	20.7
5 31	17 56.31	-24 33.8	1.884	2.860	6.8	21.4	5 31	17 53.85	-14 29.4	1.781	2.753	7.5	20.5
6 10	17 46.74	-24 29.4	1.844	2.853	2.8	21.1	6 10	17 45.75	-14 25.0	1.753	2.755	4.2	20.3
6 20	17 36.40	-24 21.2	1.832	2.846	1.6	21.0	6 20	17 37.03	-14 27.5	1.750	2.757	3.6	20.3
6 30	17 26.39	-24 9.7	1.848	2.839	5.7	21.3	6 30	17 28.66	-14 37.1	1.775	2.759	6.6	20.4
7 10	17 17.72	-23 56.5	1.890	2.830	9.6	21.5	7 10	17 21.57	-14 53.5	1.824	2.761	10.1	20.7
7 20	17 11.17	-23 43.7	1.955	2.822	13.0	21.7	7 20	17 16.44	-15 15.9	1.897	2.763	13.3	20.9
264352	1999 XF ₂₃₅		6 16.4 240°25'	2°3/16.5 18			476365	2008 CX ₂		6 16.4 101°67'	11°5/19.0 18		
5 11	18 6.27	-29 39.1	2.708	3.531	10.9	21.1	5 11	18 25.29	-60 31.8	2.514	3.206	14.9	21.0
5 21	18 1.17	-30 10.1	2.612	3.520	8.5	20.9	5 21	18 17.38	-61 43.0	2.458	3.218	13.6	20.9
5 31	17 54.20	-30 38.2	2.541	3.509	5.7	20.7	5 31	18 5.39	-62 34.1	2.420	3.230	12.5	20.8
6 10	17 45.87	-31 1.3	2.496	3.498	3.1	20.5	6 10	17 50.46	-62 58.2	2.402	3.242	11.7	20.8
6 20	17 36.88	-31 17.5	2.479	3.487	2.6	20.5	6 20	17 34.43	-62 51.0	2.405	3.254	11.5	20.8
6 30	17 28.04	-31 26.1	2.491	3.475	5.0	20.6	6 30	17 19.45	-62 12.7	2.431	3.265	11.8	20.8
7 10	17 20.19	-31 28.0	2.531	3.463	7.8	20.8	7 10	17 7.33	-61 8.1	2.477	3.277	12.7	20.9
7 20	17 13.94	-31 24.7	2.595	3.451	10.5	20.9	7 20	16 59.08	-59 44.8	2.544	3.288	13.7	21.0
425594	2010 TV ₁₇₆		6 16.4 317°45'	8°2/16.4 18			308461	2005 SZ ₂₈₄		6 16.4 344°48'	1°4/16.5 18		
5 11	18 6.74	-36 36.5	1.194	2.055	19.4	20.1	5 11	18 4.59	-17 44.8	2.132	2.969	12.9	20.7
5 21	18 4.33	-37 39.7	1.106	2.028	16.0	19.8	5 21	18 0.11	-18 3.6	2.050	2.968	9.9	20.5
5 31	17 57.79	-38 34.3	1.035	2.001	12.2	19.5	5 31	17 53.60	-18 27.0	1.990	2.966	6.5	20.3
6 10	17 47.77	-39 11.9	0.984	1.975	9.0	19.2	6 10	17 45.67	-18 54.3	1.956	2.964	2.9	20.0
6 20	17 35.69	-39 24.3	0.954	1.950	8.5	19.1	6 20	17 37.07	-19 24.3	1.950	2.963	2.0	19.9
6 30	17 23.72	-39 8.0	0.946	1.926	11.5	19.2	6 30	17 28.73	-19 56.0	1.971	2.962	5.5	20.2
7 10	17 14.12	-38 26.5	0.957	1.902	16.0	19.4	7 10	17 21.52	-20 28.7	2.019	2.961	9.0	20.4
7 20	17 8.46	-37 28.2	0.986	1.880	20.5	19.6	7 20	17 16.10	-21 1.9	2.090	2.960	12.1	20.6
390728	2003 JB ₁₂		6 16.4 79°81'	4°3/15.8 16			9231	Shimaken		6 16.4 333°80'	3°6/16.6 18 R		
5 11	18 3.51	-12 16.0	2.225	3.054	12.7	20.9	5 11	18 5.82	-28 48.7	1.060	1.939	20.0	16.9
5 21	17 59.00	-11 35.6	2.151	3.059	10.0	20.7	5 21	18 3.26	-29 18.2	0.989	1.928	15.7	16.6
5 31	17 52.71	-11 0.5	2.100	3.063	7.2	20.6	5 31	17 56.78	-29 43.2	0.935	1.918	10.7	16.2
6 10	17 45.23	-10 32.7	2.075	3.068	4.8	20.4	6 10	17 47.23	-29 59.0	0.901	1.909	5.4	15.9
6 20	17 37.28	-10 13.7	2.076	3.072	4.5	20.4	6 20	17 36.16	-30 1.5	0.888	1.900	4.2	15.8
6 30	17 29.67	-10 4.7	2.105	3.077	6.7	20.6	6 30	17 25.59	-29 50.2	0.897	1.893	9.1	16.1
7 10	17 23.15	-10 5.7	2.159	3.081	9.5	20.7	7 10	17 17.46	-29 28.5	0.927	1.886	14.6	16.3
7 20	17 18.27	-10 16.0	2.236	3.086	12.2	20.9	7 20	17 13.01	-29 1.8	0.974	1.881	19.5	16.6
349358	2007 VV ₁₈₃		6 16.4 2°63'	2°8/16.9 17			79456	1997 WP ₅₆		6 16.4 169°76'	0°0/16.4 18		
5 11	18 7.00	-32 10.0	1.983	2.818	13.8	20.0	5 11	18 6.39	-23 25.7	2.303	3.136	12.2	20.7
5 21	18 2.19	-32 5.5	1.904	2.818	10.8	19.8	5 21	18 1.31	-23 26.0	2.221	3.138	9.3	20.5
5 31	17 55.00	-31 53.0	1.847	2.818	7.4	19.6	5 31	17 54.27	-23 25.5	2.163	3.140	6.0	20.3
6 10	17 46.19	-31 30.5	1.815	2.818	4.0	19.4	6 10	17 45.90	-23 23.4	2.132	3.141	2.4	20.1
6 20	17 36.75	-30 57.8	1.809	2.818	3.1	19.3	6 20	17 36.97	-23 19.3	2.128	3.142	1.3	20.0
6 30	17 27.79	-30 16.2	1.831	2.819	6.0	19.5	6 30	17 28.36	-23 13.5	2.152	3.143	5.0	20.3
7 10	17 20.34	-29 29.2	1.878	2.820	9.5	19.7	7 10	17 20.92	-23 7.1	2.203	3.144	8.4	20.5
7 20	17 15.09	-28 40.6	1.948	2.821	12.7	20.0	7 20	17 15.25	-23 1.3	2.279	3.144	11.4	20.7
86831	2000 GT ₁₄₇		6 16.4 334°61'	2°3/16.6 18			88						

EPHEMERIDES

6 16.4

6 16.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
182226	2000 YS ₆₅	6 16.4 194°17' 5 ^o 2/15.5 18					129978	1999 UC ₃₉	6 16.4 262°80' 3 ^o 6/17.1 18				
5 11	18 2.64	- 5 1.7	3.037	3.833	10.5	21.5	5 11	18 13.24	-33 35.0	1.735	2.565	15.7	19.7
5 21	17 57.91	- 4 21.1	2.954	3.831	8.6	21.4	5 21	18 7.67	-33 29.8	1.636	2.546	12.5	19.4
5 31	17 51.85	- 3 47.9	2.893	3.828	6.8	21.2	5 31	17 58.99	-33 13.8	1.558	2.526	8.7	19.2
6 10	17 44.89	- 3 24.0	2.859	3.824	5.5	21.1	6 10	17 47.99	-32 43.5	1.504	2.506	5.0	18.9
6 20	17 37.55	- 3 11.0	2.853	3.821	5.4	21.1	6 20	17 35.85	-31 57.4	1.477	2.485	3.9	18.8
6 30	17 30.41	- 3 9.5	2.874	3.816	6.6	21.2	6 30	17 24.08	-30 56.9	1.476	2.463	7.3	18.9
7 10	17 24.01	- 3 19.2	2.922	3.812	8.4	21.3	7 10	17 14.10	-29 47.3	1.500	2.441	11.5	19.1
7 20	17 18.81	- 3 39.0	2.993	3.807	10.4	21.4	7 20	17 6.92	-28 34.9	1.547	2.419	15.5	19.3
46651	1995 SV ₂₆	6 16.4 344°69' 2 ^o 2/16.3 17					374888	2006 WV ₃₈	6 16.4 148°61' 0 ^o 6/16.4 17				
5 11	18 1.17	-20 9.5	1.087	1.971	19.2	19.0	5 11	18 5.17	-21 19.3	2.624	3.453	11.0	22.5
5 21	17 59.20	-19 49.1	1.016	1.959	14.9	18.7	5 21	18 0.11	-21 18.4	2.545	3.459	8.4	22.3
5 31	17 53.86	-19 30.6	0.962	1.949	9.9	18.4	5 31	17 53.39	-21 17.9	2.490	3.465	5.4	22.1
6 10	17 45.99	-19 15.0	0.930	1.940	4.4	18.1	6 10	17 45.55	-21 17.5	2.462	3.471	2.2	21.9
6 20	17 36.90	-19 3.4	0.918	1.932	3.2	18.0	6 20	17 37.26	-21 16.8	2.463	3.477	1.4	21.8
6 30	17 28.27	-18 57.2	0.929	1.925	8.6	18.3	6 30	17 29.27	-21 16.2	2.492	3.482	4.5	22.1
7 10	17 21.70	-18 57.8	0.960	1.921	14.0	18.5	7 10	17 22.27	-21 16.2	2.549	3.487	7.5	22.3
7 20	17 18.25	-19 5.5	1.009	1.917	18.8	18.8	7 20	17 16.79	-21 17.5	2.631	3.491	10.2	22.5
376821	2001 CL ₁₈	6 16.4 121°06' 2 ^o 3/16.5 17					241535	2010 EG ₃₈	6 16.4 357°08' 4 ^o 0/16.2 17				
5 11	18 8.18	-15 24.4	2.265	3.089	12.7	21.3	5 11	18 3.54	-17 10.3	1.029	1.911	20.2	19.9
5 21	18 2.49	-15 29.2	2.197	3.106	9.8	21.1	5 21	18 1.02	-16 40.3	0.966	1.907	15.8	19.6
5 31	17 54.93	-15 39.0	2.153	3.123	6.5	20.9	5 31	17 55.01	-16 15.8	0.921	1.905	10.7	19.3
6 10	17 46.14	-15 53.4	2.135	3.139	3.4	20.8	6 10	17 46.44	-15 59.2	0.896	1.903	5.6	19.0
6 20	17 36.88	-16 12.1	2.146	3.155	2.7	20.7	6 20	17 36.74	-15 52.2	0.892	1.903	4.6	18.9
6 30	17 28.02	-16 34.5	2.185	3.170	5.5	20.9	6 30	17 27.65	-15 55.9	0.909	1.903	9.4	19.2
7 10	17 20.35	-16 59.9	2.251	3.184	8.6	21.2	7 10	17 20.76	-16 10.5	0.947	1.905	14.6	19.5
7 20	17 14.43	-17 28.0	2.341	3.198	11.5	21.4	7 20	17 17.08	-16 34.6	1.003	1.907	19.3	19.8
97400	2000 AG ₁₂₄	6 16.4 123°00' 3 ^o 2/16.4 18					290039	2005 QW ₃₄	6 16.4 249°49' 5 ^o 4/15.9 18				
5 11	18 6.47	-13 30.7	2.238	3.063	12.8	19.7	5 11	18 3.18	- 7 28.6	2.389	3.204	12.4	20.7
5 21	18 1.23	-13 23.1	2.168	3.076	9.9	19.6	5 21	17 58.76	- 6 57.0	2.303	3.196	10.1	20.5
5 31	17 54.15	-13 21.4	2.121	3.088	6.8	19.4	5 31	17 52.62	- 6 33.5	2.239	3.188	7.6	20.3
6 10	17 45.84	-13 26.1	2.100	3.100	4.0	19.2	6 10	17 45.29	- 6 20.5	2.200	3.180	5.8	20.2
6 20	17 37.05	-13 37.3	2.107	3.111	3.5	19.2	6 20	17 37.40	- 6 19.1	2.188	3.171	5.6	20.2
6 30	17 28.64	-13 54.7	2.142	3.122	5.9	19.4	6 30	17 29.73	- 6 30.2	2.203	3.163	7.3	20.2
7 10	17 21.37	-14 17.9	2.203	3.133	9.0	19.6	7 10	17 23.00	- 6 52.8	2.243	3.154	9.7	20.4
7 20	17 15.81	-14 45.8	2.288	3.143	11.7	19.8	7 20	17 17.78	- 7 25.6	2.306	3.145	12.2	20.5
377607	2005 RU ₂₄	6 16.4 310°32' 7 ^o 2/14.5 18					507653	2013 PK ₄₂	6 16.4 335°29' 7 ^o 6/17.1 17				
5 11	18 4.33	-13 5.1	1.391	2.248	17.4	19.6	5 11	18 5.44	-36 55.7	1.158	2.021	19.7	20.8
5 21	18 0.99	-11 32.0	1.299	2.222	14.0	19.3	5 21	18 3.11	-37 39.0	1.082	2.006	16.1	20.6
5 31	17 54.77	- 9 59.4	1.228	2.197	10.4	19.0	5 31	17 56.77	-38 9.5	1.023	1.991	12.1	20.3
6 10	17 46.32	- 8 33.1	1.179	2.172	7.6	18.8	6 10	17 47.29	-38 20.0	0.984	1.978	8.6	20.0
6 20	17 36.70	- 7 19.6	1.153	2.147	7.8	18.7	6 20	17 36.23	-38 5.0	0.967	1.965	7.8	19.9
6 30	17 27.28	- 6 24.8	1.152	2.122	11.1	18.8	6 30	17 25.71	-37 24.0	0.970	1.954	10.7	20.1
7 10	17 19.41	- 5 52.2	1.171	2.099	15.3	19.0	7 10	17 17.69	-36 22.9	0.994	1.945	14.9	20.3
7 20	17 14.11	- 5 42.0	1.210	2.076	19.3	19.2	7 20	17 13.44	-35 10.6	1.037	1.936	19.2	20.5
500119	2012 BV ₁₃₇	6 16.4 233°02' 0 ^o 7/16.4 17 R					520308	2014 FT ₇₅	6 16.4 323°74' 1 ^o 8/16.4 18				
5 11	18 11.00	-22 7.1	1.750	2.590	15.1	23.0	5 11	18 5.67	-25 56.1	2.038	2.879	13.3	20.6
5 21	18 5.61	-21 58.4	1.658	2.578	11.7	22.8	5 21	18 1.28	-26 38.3	1.951	2.871	10.2	20.4
5 31	17 57.48	-21 49.2	1.588	2.565	7.7	22.5	5 31	17 54.58	-27 20.7	1.887	2.863	6.8	20.2
6 10	17 47.33	-21 39.0	1.542	2.551	3.2	22.2	6 10	17 46.17	-28 0.4	1.848	2.855	3.2	19.9
6 20	17 36.17	-21 27.3	1.523	2.537	1.9	22.1	6 20	17 36.90	-28 34.8	1.836	2.847	2.3	19.9
6 30	17 25.29	-21 14.9	1.531	2.522	6.6	22.3	6 30	17 27.84	-29 2.3	1.851	2.840	5.8	20.1
7 10	17 15.92	-21 3.6	1.565	2.507	11.1	22.6	7 10	17 20.02	-29 23.1	1.892	2.833	9.5	20.3
7 20	17 8.97	-20 55.2	1.621	2.491	15.0	22.8	7 20	17 14.23	-29 38.3	1.955	2.827	12.8	20.5
192943	2000 AJ ₂₂₃	6 16.4 168°26' 0 ^o 3/16.5 17					463114	2011 UB ₂₀₃	6 16.4 145°90' 0 ^o 3/16.4 17				
5 11	18 7.91	-24 32.0	2.661	3.484	11.0	22.3	5 11	18 12.27	-22 2.9	1.732	2.570	15.4	22.7
5 21	18 2.19	-24 33.4	2.578	3.489	8.4	22.2	5 21	18 6.34	-22 11.6	1.661	2.580	11.8	22.5
5 31	17 54.72	-24 33.2	2.520	3.493	5.4	22.0	5 31	17 57.79	-22 21.0	1.612	2.589	7.6	22.2
6 10	17 46.07	-24 30.5	2.488	3.497	2.2	21.8	6 10	17 47.41	-22 29.7	1.588	2.597	3.1	22.0
6 20	17 36.94	-24 25.0	2.486	3.501	1.2	21.7	6 20	17 36.28	-22 36.6	1.591	2.605	1.7	21.9
6 30	17 28.11	-24 16.9	2.514	3.503	4.5	21.9	6 30	17 25.68	-22 41.5	1.621	2.612	6.3	22.2
7 10	17 20.33	-24 7.3	2.569	3.505	7.6	22.1	7 10	17 16.74	-22 45.4	1.677	2.619	10.5	22.5
7 20	17 14.16	-23 57.6	2.649	3.506	10.3	22.3	7 20	17 10.24	-22 49.7	1.755	2.624	14.1	22.7
235882	2005 CM ₅	6 16.4 131°50' 0 ^o 6/16.4 17 R					376959	2002 GJ ₆₉	6 16.5 103°26' 2 ^o 7/16.6 17				
5 11	18 7.66	-21 25.6	2.319	3.149	12.2	21.5	5 11	18 10.70	-29 48.0	1.948	2.780	14.1	21.4
5 21	18 2.15	-21 26.1	2.247	3.161	9.3	21.3	5 21	18 4.97	-30 12.7	1.883	2.796	10.9	21.2
5 31	17 54.75	-21 27.0	2.198	3.173	6.0	21.1	5 31	17 56.79	-30 32.4	1.840	2.811	7.3	21.0
6 10	17 46.09	-21 27.8	2.176	3.185	2.4	20.9	6 10	17 46.97	-30 44.3	1.822	2.826	3.8	20.8
6 20	17 36.95	-21 28.1	2.182	3.196	1.5	20.8	6 20	17 36.54	-30 46.7	1.831	2.841	3.0	20.8
6 30	17 28.19	-21 28.2	2.216	3.206	5.0	21.1	6 30	17 26.66	-30 39.7	1.868	2.855	6.1	21.0
7 10	17 20.63	-21 28.7	2.278	3.216	8.3	21.3	7 10	17 18.37	-30 25.5	1.931	2.869	9.5	21.2
7 20	17 14.83	-21 30.4	2.364	3.226	11.2	21.5	7 20	17 12.36	-30 7.2	2.016	2.883	12.6	21.5
70878	1999 VF ₁₆₁	6 16.4 288°19' 0 ^o 8/16.5 18					305489	2008 EN ₁₃	6 16.5 185°66' 4 ^o 7/16.7 18				
5 11	18 6.77	-25 17.8	1.828	2.673	14.4	20.2	5 11	18 8.79	-36 42.7	2.410	3.223	12.3	20.9
5 21													

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
472047	2013 YL ₄₃		6 16.5 234 ^o 40	1 ^o 7/16.7 17			437429	2013 XY ₂₂		6 16.5 294 ^o 79	0 ^o 6/16.5 17		
5 11	18 8.76	-28 38.8	2.042	2.876	13.5	22.0	5 11	18 6.87	-20 37.4	1.858	2.701	14.3	20.9
5 21	18 3.56	-28 39.8	1.954	2.869	10.5	21.8	5 21	18 2.21	-20 55.1	1.778	2.699	11.0	20.7
5 31	17 55.98	-28 36.0	1.887	2.861	7.0	21.6	5 31	17 55.16	-21 15.7	1.720	2.698	7.1	20.5
6 10	17 46.71	-28 25.5	1.846	2.853	3.3	21.3	6 10	17 46.41	-21 37.8	1.686	2.696	2.9	20.2
6 20	17 36.68	-28 7.4	1.833	2.845	2.2	21.2	6 20	17 36.87	-22 0.0	1.680	2.694	1.7	20.1
6 30	17 26.99	-27 42.6	1.847	2.837	5.8	21.5	6 30	17 27.64	-22 21.5	1.700	2.693	5.9	20.4
7 10	17 18.70	-27 13.5	1.887	2.828	9.5	21.7	7 10	17 19.77	-22 42.1	1.746	2.691	9.9	20.6
7 20	17 12.55	-26 43.0	1.950	2.819	12.9	21.9	7 20	17 14.04	-23 2.3	1.815	2.689	13.5	20.8
19779	2000 QU ₅₃		6 16.5 326 ^o 05	3 ^o 9/16.6 18			175738	1998 HR ₆₆		6 16.5 327 ^o 02	6 ^o 6/15.5 18		
5 11	18 5.13	-30 25.1	1.355	2.218	17.4	17.3	5 11	18 1.96	-7 52.2	1.906	2.738	14.4	19.3
5 21	18 2.15	-30 56.4	1.270	2.199	13.8	17.0	5 21	17 58.28	-6 59.0	1.824	2.727	11.8	19.1
5 31	17 55.82	-31 22.6	1.204	2.181	9.5	16.7	5 31	17 52.54	-6 14.3	1.763	2.716	9.0	18.9
6 10	17 46.86	-31 39.4	1.159	2.164	5.3	16.4	6 10	17 45.34	-5 41.8	1.726	2.706	7.0	18.8
6 20	17 36.52	-31 43.0	1.138	2.147	4.4	16.3	6 20	17 37.48	-5 24.1	1.713	2.696	6.9	18.7
6 30	17 26.47	-31 32.6	1.141	2.132	8.3	16.5	6 30	17 29.87	-5 22.8	1.726	2.687	8.8	18.8
7 10	17 18.35	-31 10.9	1.165	2.117	13.0	16.7	7 10	17 23.41	-5 37.6	1.763	2.678	11.7	19.0
7 20	17 13.31	-30 42.4	1.209	2.103	17.4	16.9	7 20	17 18.79	-6 6.5	1.820	2.670	14.5	19.2
408140	2013 CE ₈₄		6 16.5 317 ^o 37	7 ^o 4/16.8 17			475155	2005 UA ₃₈₁		6 16.5 267 ^o 27	1 ^o 7/16.4 18		
5 11	18 10.98	-36 11.5	1.203	2.057	19.7	20.8	5 11	18 6.19	-26 42.2	2.363	3.195	12.0	21.4
5 21	18 7.27	-37 6.1	1.130	2.049	16.0	20.5	5 21	18 1.38	-27 16.0	2.271	3.186	9.3	21.2
5 31	17 59.42	-37 50.1	1.075	2.041	11.9	20.2	5 31	17 54.51	-27 48.8	2.203	3.177	6.1	21.0
6 10	17 48.37	-38 15.5	1.040	2.033	8.4	20.0	6 10	17 46.14	-28 18.4	2.162	3.168	2.9	20.8
6 20	17 35.72	-38 15.9	1.028	2.026	7.7	19.9	6 20	17 37.04	-28 42.7	2.148	3.159	2.1	20.7
6 30	17 23.66	-37 50.4	1.038	2.019	10.6	20.1	6 30	17 28.11	-29 0.8	2.162	3.150	5.2	20.9
7 10	17 14.19	-37 4.3	1.069	2.013	14.8	20.3	7 10	17 20.27	-29 13.0	2.203	3.141	8.5	21.1
7 20	17 8.57	-36 6.1	1.119	2.007	19.0	20.5	7 20	17 14.21	-29 20.6	2.268	3.132	11.5	21.3
341738	2007 VK ₂₅₄		6 16.5 112 ^o 55	1 ^o 7/16.6 18			206147	2002 TK ₉₈		6 16.5 203 ^o 93	2 ^o 9/16.2 18		
5 11	18 7.32	-16 8.6	2.435	3.258	11.9	20.8	5 11	18 5.28	-15 41.1	2.141	2.974	13.0	20.7
5 21	18 1.79	-16 28.9	2.365	3.275	9.2	20.7	5 21	18 0.57	-15 20.2	2.059	2.973	10.1	20.5
5 31	17 54.50	-16 53.8	2.320	3.291	6.0	20.5	5 31	17 53.89	-15 3.0	2.000	2.971	6.9	20.3
6 10	17 46.03	-17 22.6	2.301	3.306	2.9	20.3	6 10	17 45.86	-14 50.6	1.967	2.969	3.8	20.1
6 20	17 37.09	-17 54.3	2.311	3.322	2.1	20.3	6 20	17 37.23	-14 43.8	1.961	2.967	3.3	20.0
6 30	17 28.50	-18 27.8	2.350	3.337	5.0	20.5	6 30	17 28.91	-14 43.1	1.982	2.965	6.1	20.2
7 10	17 20.98	-19 2.3	2.417	3.352	8.0	20.7	7 10	17 21.73	-14 48.8	2.029	2.963	9.4	20.4
7 20	17 15.09	-19 37.3	2.508	3.366	10.8	20.9	7 20	17 16.32	-15 0.7	2.100	2.961	12.4	20.6
440538	2005 UJ ₁₆₅		6 16.5 277 ^o 78	0 ^o 2/16.4 16			379277	2009 UD ₁₂₇		6 16.5 102 ^o 68	4 ^o 2/15.5 17		
5 11	18 4.62	-22 50.2	2.284	3.121	12.2	22.3	5 11	18 8.84	-15 42.0	1.862	2.697	14.6	20.2
5 21	18 0.09	-22 48.1	2.193	3.112	9.3	22.1	5 21	18 3.29	-14 33.2	1.797	2.711	11.4	20.0
5 31	17 53.61	-22 45.6	2.126	3.103	6.0	21.9	5 31	17 55.58	-13 26.8	1.755	2.724	7.9	19.9
6 10	17 45.74	-22 42.1	2.084	3.094	2.4	21.6	6 10	17 46.48	-12 25.7	1.739	2.738	4.8	19.7
6 20	17 37.23	-22 37.3	2.071	3.085	1.4	21.5	6 20	17 36.94	-11 33.1	1.750	2.751	4.6	19.7
6 30	17 28.96	-22 31.5	2.085	3.076	5.1	21.8	6 30	17 27.96	-10 51.7	1.788	2.764	7.4	19.9
7 10	17 21.78	-22 25.7	2.125	3.067	8.6	22.0	7 10	17 20.45	-10 22.9	1.852	2.776	10.7	20.1
7 20	17 16.35	-22 21.0	2.189	3.058	11.7	22.1	7 20	17 15.00	-10 6.8	1.937	2.788	13.7	20.4
521336	2015 LJ ₄₄		6 16.5 65 ^o 25	2 ^o 3/16.3 17			298283	2002 XW ₁₀₀		6 16.5 131 ^o 43	0 ^o 5/16.4 17		
5 11	18 6.43	-17 55.8	1.859	2.701	14.3	21.1	5 11	18 6.53	-22 24.4	2.428	3.258	11.7	21.5
5 21	18 1.51	-17 35.3	1.800	2.720	11.0	20.9	5 21	18 1.26	-22 16.9	2.353	3.268	9.0	21.3
5 31	17 54.45	-17 17.8	1.763	2.738	7.2	20.7	5 31	17 54.19	-22 8.9	2.303	3.278	5.8	21.1
6 10	17 46.02	-17 3.9	1.751	2.757	3.5	20.6	6 10	17 45.93	-22 0.0	2.279	3.288	2.3	20.9
6 20	17 37.13	-16 54.2	1.766	2.776	2.8	20.5	6 20	17 37.23	-21 50.2	2.283	3.297	1.4	20.9
6 30	17 28.78	-16 49.4	1.807	2.795	6.1	20.8	6 30	17 28.89	-21 40.1	2.316	3.306	4.8	21.1
7 10	17 21.86	-16 50.0	1.874	2.814	9.7	21.0	7 10	17 21.67	-21 30.8	2.376	3.315	8.0	21.3
7 20	17 16.96	-16 56.0	1.964	2.833	12.8	21.3	7 20	17 16.13	-21 23.2	2.460	3.323	10.8	21.5
82063	2000 WE ₁₂₅		6 16.5 327 ^o 94	9 ^o 2/15.0 18			257062	2008 FC ₉₉		6 16.5 302 ^o 82	0 ^o 8/16.4 18		
5 11	18 0.06	-4 25.1	1.602	2.439	16.5	18.5	5 11	18 5.22	-23 59.4	2.221	3.058	12.4	20.6
5 21	17 57.36	-3 20.4	1.509	2.410	13.9	18.3	5 21	18 0.72	-24 29.1	2.131	3.050	9.6	20.4
5 31	17 52.26	-2 27.2	1.436	2.382	11.3	18.1	5 31	17 54.12	-24 59.6	2.065	3.041	6.2	20.2
6 10	17 45.33	-1 51.3	1.384	2.354	9.5	17.9	6 10	17 46.01	-25 28.8	2.024	3.033	2.6	19.9
6 20	17 37.41	-1 37.1	1.355	2.328	9.5	17.8	6 20	17 37.15	-25 55.2	2.011	3.025	1.6	19.8
6 30	17 29.59	-1 47.4	1.349	2.302	11.5	17.9	6 30	17 28.48	-26 17.6	2.025	3.017	5.3	20.1
7 10	17 23.00	-2 21.5	1.364	2.278	14.5	18.0	7 10	17 20.92	-26 36.0	2.066	3.009	8.8	20.3
7 20	17 18.51	-3 16.3	1.398	2.254	17.7	18.1	7 20	17 15.19	-26 51.3	2.131	3.001	11.9	20.5
375735	2009 RC ₃₅		6 16.5 150 ^o 15	5 ^o 7/16.8 17			171228	2005 JO ₁₅₃		6 16.5 159 ^o 12	7 ^o 4/15.7 18		
5 11	18 14.96	-39 16.3	2.345	3.143	13.1	22.0	5 11	18 20.70	-39 35.8	2.032	2.829	14.9	20.6
5 21	18 8.23	-40 7.1	2.272	3.153	10.7	21.8	5 21	18 13.42	-41 16.9	1.959	2.837	12.3	20.5
5 31	17 58.95	-40 48.3	2.222	3.163	8.2	21.7	5 31	18 2.81	-42 49.6	1.909	2.844	9.7	20.3
6 10	17 47.89	-41 15.3	2.197	3.172	6.2	21.6	6 10	17 49.64	-44 5.8	1.885	2.850	7.8	20.2
6 20	17 36.07	-41 25.0	2.200	3.180	5.8	21.6	6 20	17 35.13	-44 59.1	1.888	2.856	7.6	20.2
6 30	17 24.70	-41 17.1	2.230	3.188	7.3	21.7	6 30	17 20.90	-45 26.7	1.918	2.861	9.3	20.3
7 10	17 14.90	-40 54.3	2.286	3.195	9.7	21.9	7 10	17 8.51	-45 31.2	1.973	2.865	11.8	20.5
7 20	17 7.44	-40 21.0	2.366	3.201	12.1	22.0	7 20	16 59.09	-45 18.2	2.050	2.868	14.3	20.7

EPHEMERIDES

6 16.5

6 16.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
308463	2005 <i>SD</i> ₂₈₇		6 16.5 353°98	2°2/16.5 18			427502	2002 <i>CS</i> ₁₅₁		6 16.5 121°59	6°0/16.5 17		
5 11	18 4.13	-16 1.6	2.078	2.916	13.2	20.5	5 11	18 6.82	-6 42.8	1.995	2.811	14.4	21.3
5 21	17 59.81	-16 9.2	1.998	2.915	10.2	20.3	5 21	18 1.72	-6 18.0	1.928	2.822	11.7	21.1
5 31	17 53.48	-16 22.2	1.940	2.914	6.8	20.1	5 31	17 54.61	-6 4.3	1.883	2.832	8.8	20.9
6 10	17 45.73	-16 40.5	1.907	2.913	3.4	19.9	6 10	17 46.15	-6 3.8	1.862	2.842	6.6	20.8
6 20	17 37.33	-17 3.5	1.902	2.912	2.6	19.8	6 20	17 37.18	-6 17.5	1.867	2.852	6.2	20.8
6 30	17 29.22	-17 30.6	1.923	2.912	5.8	20.0	6 30	17 28.59	-6 44.9	1.899	2.862	8.0	20.9
7 10	17 22.24	-18 1.0	1.971	2.912	9.2	20.2	7 10	17 21.26	-7 24.5	1.956	2.871	10.7	21.1
7 20	17 17.07	-18 33.9	2.042	2.912	12.4	20.4	7 20	17 15.78	-8 13.5	2.035	2.879	13.4	21.3
268016	2004 <i>NC</i> ₈		6 16.5 322°35	0°9/16.4 17			93230	2000 <i>SW</i> ₁₄₄		6 16.5 219°82	0°1/16.5 18		
5 11	18 4.78	-22 8.8	1.440	2.303	16.6	20.2	5 11	18 8.17	-23 56.6	1.937	2.777	13.9	20.1
5 21	18 1.36	-21 57.0	1.356	2.288	12.9	19.9	5 21	18 3.14	-23 52.0	1.853	2.773	10.7	19.9
5 31	17 55.02	-21 44.9	1.292	2.274	8.4	19.6	5 31	17 55.75	-23 45.8	1.791	2.768	7.0	19.7
6 10	17 46.49	-21 32.3	1.250	2.261	3.5	19.3	6 10	17 46.68	-23 37.2	1.754	2.764	2.8	19.4
6 20	17 36.88	-21 19.2	1.233	2.248	2.1	19.2	6 20	17 36.87	-23 25.8	1.745	2.759	1.5	19.3
6 30	17 27.60	-21 6.9	1.241	2.235	7.2	19.4	6 30	17 27.40	-23 12.3	1.762	2.754	5.8	19.6
7 10	17 19.98	-20 56.9	1.271	2.224	12.1	19.7	7 10	17 19.33	-22 58.3	1.805	2.749	9.8	19.8
7 20	17 15.02	-20 51.0	1.322	2.213	16.4	19.9	7 20	17 13.38	-22 45.6	1.872	2.743	13.2	20.0
358391	2006 <i>YM</i> ₅₁		6 16.5 180°36	1°2/16.4 18			479783	2014 <i>EK</i> ₄₄		6 16.5 31°82	1°3/16.5 17		
5 11	18 4.34	-19 34.0	2.466	3.298	11.5	22.1	5 11	18 5.55	-18 52.5	2.012	2.852	13.4	20.8
5 21	17 59.65	-19 30.5	2.383	3.298	8.8	21.9	5 21	18 0.97	-19 2.2	1.934	2.853	10.3	20.6
5 31	17 53.21	-19 28.5	2.324	3.299	5.8	21.7	5 31	17 54.27	-19 15.3	1.878	2.855	6.8	20.4
6 10	17 45.58	-19 28.1	2.291	3.299	2.5	21.5	6 10	17 46.07	-19 31.2	1.848	2.856	3.0	20.1
6 20	17 37.43	-19 29.0	2.286	3.298	1.7	21.4	6 20	17 37.22	-19 49.1	1.845	2.858	1.9	20.0
6 30	17 29.55	-19 31.5	2.309	3.298	4.9	21.6	6 30	17 28.68	-20 8.5	1.869	2.860	5.6	20.3
7 10	17 22.68	-19 35.9	2.359	3.298	8.0	21.8	7 10	17 21.38	-20 29.1	1.919	2.862	9.3	20.5
7 20	17 17.38	-19 42.6	2.434	3.297	10.8	22.0	7 20	17 15.99	-20 50.9	1.992	2.863	12.6	20.7
380290	2002 <i>CF</i> ₃₄		6 16.5 221°32	5°6/17.1 18			90044	2002 <i>VN</i> ₂		6 16.5 344°18	1°7/16.5 17		
5 11	18 13.48	-38 55.2	2.131	2.938	13.9	21.0	5 11	18 1.61	-20 2.0	0.925	1.818	20.9	19.2
5 21	18 7.43	-39 24.7	2.041	2.930	11.4	20.8	5 21	18 0.13	-20 1.8	0.859	1.807	16.3	18.8
5 31	17 58.64	-39 43.5	1.974	2.921	8.6	20.6	5 31	17 54.83	-20 6.4	0.809	1.798	10.8	18.5
6 10	17 47.85	-39 47.4	1.931	2.913	6.3	20.4	6 10	17 46.60	-20 15.9	0.779	1.789	4.6	18.1
6 20	17 36.17	-39 33.3	1.915	2.903	5.7	20.4	6 20	17 36.89	-20 29.4	0.768	1.783	2.9	18.0
6 30	17 24.89	-39 1.4	1.926	2.893	7.6	20.5	6 30	17 27.66	-20 46.4	0.778	1.777	9.2	18.3
7 10	17 15.25	-38 15.1	1.962	2.883	10.4	20.6	7 10	17 20.79	-21 6.9	0.807	1.773	15.2	18.6
7 20	17 8.09	-37 19.7	2.021	2.872	13.2	20.8	7 20	17 17.49	-21 30.7	0.853	1.771	20.4	18.9
5526	Kenzo		6 16.5 267°32	5°3/15.3 18			210192	2007 <i>PW</i> ₁₄		6 16.5 254°49	3°0/16.5 17		
5 11	18 6.21	-12 34.2	1.941	2.774	14.2	17.1	5 11	18 8.99	-16 13.7	1.486	2.335	16.9	20.4
5 21	18 1.56	-11 29.6	1.849	2.758	11.3	16.8	5 21	18 4.44	-16 10.8	1.404	2.326	13.2	20.1
5 31	17 54.70	-10 28.2	1.779	2.742	8.2	16.6	5 31	17 56.96	-16 14.5	1.341	2.317	8.9	19.9
6 10	17 46.26	-9 33.3	1.734	2.726	5.7	16.4	6 10	17 47.29	-16 25.2	1.302	2.308	4.5	19.6
6 20	17 37.05	-8 48.2	1.716	2.710	5.7	16.4	6 20	17 36.52	-16 42.7	1.288	2.299	3.5	19.5
6 30	17 28.08	-8 15.8	1.724	2.693	8.2	16.5	6 30	17 26.05	-17 6.3	1.299	2.289	7.7	19.7
7 10	17 20.32	-7 57.3	1.757	2.676	11.5	16.7	7 10	17 17.22	-17 35.4	1.334	2.279	12.3	20.0
7 20	17 14.49	-7 52.8	1.812	2.659	14.7	16.8	7 20	17 10.99	-18 9.1	1.391	2.269	16.5	20.2
70971	1999 <i>XL</i> ₂₀		6 16.5 136°50	0°3/16.5 17			501735	2014 <i>UX</i> ₉₁		6 16.5 148°34	3°3/16.0 17		
5 11	18 10.86	-22 4.8	1.787	2.626	14.9	19.2	5 11	18 9.23	-17 56.5	1.484	2.335	16.8	21.2
5 21	18 5.22	-22 13.6	1.716	2.635	11.4	19.0	5 21	18 4.36	-17 14.5	1.413	2.337	13.1	21.0
5 31	17 57.06	-22 23.2	1.668	2.645	7.4	18.8	5 31	17 56.70	-16 34.5	1.363	2.339	8.8	20.7
6 10	17 47.17	-22 32.1	1.644	2.653	3.0	18.5	6 10	17 47.09	-15 58.3	1.336	2.341	4.6	20.5
6 20	17 36.58	-22 39.3	1.647	2.662	1.6	18.4	6 20	17 36.69	-15 28.0	1.334	2.343	3.9	20.4
6 30	17 26.49	-22 44.8	1.678	2.670	6.1	18.7	6 30	17 26.83	-15 5.8	1.357	2.344	7.8	20.7
7 10	17 17.97	-22 49.3	1.734	2.677	10.1	19.0	7 10	17 18.72	-14 53.1	1.405	2.346	12.2	20.9
7 20	17 11.77	-22 54.1	1.813	2.684	13.7	19.2	7 20	17 13.19	-14 50.4	1.473	2.347	16.0	21.2
164609	3829 <i>T</i> ₋₃		6 16.5 272°75	2°9/16.5 18			157337	2004 <i>TE</i> ₄₃		6 16.5 339°15	0°5/16.4 17		
5 11	18 10.67	-28 16.4	1.450	2.301	17.1	20.6	5 11	18 2.90	-23 42.2	1.309	2.181	17.4	19.5
5 21	18 6.20	-28 48.6	1.364	2.288	13.4	20.3	5 21	18 0.17	-23 24.4	1.230	2.167	13.5	19.2
5 31	17 58.37	-29 18.2	1.298	2.274	9.1	20.1	5 31	17 54.36	-23 4.1	1.171	2.155	8.8	18.9
6 10	17 47.93	-29 41.0	1.254	2.261	4.6	19.8	6 10	17 46.28	-22 41.0	1.133	2.143	3.6	18.6
6 20	17 36.11	-29 53.3	1.235	2.247	3.5	19.7	6 20	17 37.10	-22 15.8	1.118	2.133	2.0	18.4
6 30	17 24.57	-29 53.9	1.242	2.233	7.8	19.9	6 30	17 28.33	-21 50.2	1.127	2.124	7.5	18.7
7 10	17 14.91	-29 44.7	1.271	2.218	12.6	20.1	7 10	17 21.40	-21 27.1	1.159	2.116	12.6	19.0
7 20	17 8.28	-29 29.7	1.321	2.204	17.0	20.3	7 20	17 17.26	-21 8.9	1.210	2.109	17.0	19.2
173172	1997 <i>EN</i> ₅₈		6 16.5 75°78	1°6/16.6 17			191220	2002 <i>RU</i> ₇₄		6 16.5 191°53	2°1/16.3 18		
5 11	18 11.31	-26 30.6	1.482	2.331	16.9	20.5	5 11	18 5.95	-17 33.8	2.209	3.042	12.7	20.7
5 21	18 5.98	-26 45.8	1.424	2.348	13.0	20.3	5 21	18 1.07	-17 22.5	2.126	3.041	9.8	20.5
5 31	17 57.70	-26 57.7	1.387	2.365	8.5	20.1	5 31	17 54.23	-17 14.1	2.067	3.040	6.5	20.3
6 10	17 47.44	-27 3.9	1.374	2.382	3.7	19.8	6 10	17 46.04	-17 8.8	2.033	3.039	3.2	20.1
6 20	17 36.49	-27 2.7	1.386	2.399	2.3	19.8	6 20	17 37.26	-17 7.0	2.027	3.037	2.5	20.0
6 30	17 26.28	-26 54.7	1.424	2.416	6.8	20.1	6 30	17 28.78	-17 8.9	2.049	3.036	5.6	20.2
7 10	17 18.08	-26 42.3	1.486	2.433	11.1	20.4	7 10	17 21.43	-17 15.0	2.097	3.034	9.0	20.4
7 20	17 12.64	-26 28.5	1.569	2.450	14.9	20.7	7 20	17 15.83	-17 25.1	2.169	3.031	12.0	20.6
17088	Giupalazzolo		6 16.5 94°98	2°3/16.6 18			215446	2002 <i>NV</i> ₄₀		6 16.5 332°82			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V	
221804	2008 <i>CF</i> ₁₂₄	6 16.5 346°25 4°5/16.2 17						149902	2005 <i>SR</i> ₃₅	6 16.5 209°04 3°3/16.6 18				
5 11	17 58.43	-16 39.5	1.023	1.913	19.7	19.8	5 11	18 7.61	-32 35.8	2.534	3.354	11.6	20.5	
5 21	17 57.24	-16 5.0	0.953	1.898	15.5	19.5	5 21	18 2.41	-33 11.0	2.448	3.351	9.1	20.3	
5 31	17 52.73	-15 35.9	0.900	1.885	10.6	19.2	5 31	17 55.16	-33 41.2	2.385	3.348	6.4	20.1	
6 10	17 45.69	-15 15.3	0.867	1.874	5.9	18.9	6 10	17 46.46	-34 3.9	2.348	3.345	4.0	19.9	
6 20	17 37.42	-15 5.9	0.855	1.865	5.1	18.8	6 20	17 37.09	-34 16.8	2.339	3.341	3.5	19.9	
6 30	17 29.57	-15 9.3	0.863	1.857	9.6	19.1	6 30	17 27.96	-34 19.5	2.359	3.338	5.6	20.0	
7 10	17 23.73	-15 25.5	0.891	1.852	14.8	19.3	7 10	17 19.96	-34 13.2	2.404	3.334	8.3	20.2	
7 20	17 20.99	-15 53.2	0.936	1.848	19.6	19.6	7 20	17 13.76	-34 0.2	2.474	3.330	11.0	20.4	
410344	2007 <i>UM</i> ₁₀₃	6 16.5 123°63 1°2/16.5 17						474981	2005 <i>TL</i> ₁₀₁	6 16.5 246°26 6°4/16.3 18 R				
5 11	18 12.48	-25 43.9	1.695	2.535	15.6	22.0	5 11	18 10.82	-40 46.2	2.409	3.208	12.8	21.1	
5 21	18 6.63	-26 0.4	1.629	2.548	12.0	21.8	5 21	18 5.35	-41 52.2	2.325	3.203	10.6	20.9	
5 31	17 58.05	-26 14.7	1.584	2.560	7.8	21.6	5 31	17 57.33	-42 49.5	2.263	3.198	8.4	20.8	
6 10	17 47.61	-26 24.4	1.564	2.572	3.3	21.3	6 10	17 47.42	-43 33.1	2.227	3.192	6.8	20.7	
6 20	17 36.44	-26 27.9	1.570	2.584	2.0	21.3	6 20	17 36.54	-43 59.4	2.217	3.187	6.5	20.6	
6 30	17 25.87	-26 25.3	1.604	2.595	6.3	21.6	6 30	17 25.89	-44 6.8	2.233	3.181	7.9	20.7	
7 10	17 17.06	-26 18.4	1.662	2.605	10.5	21.8	7 10	17 16.61	-43 57.3	2.275	3.176	10.1	20.8	
7 20	17 10.80	-26 9.8	1.743	2.615	14.0	22.1	7 20	17 9.56	-43 34.5	2.339	3.170	12.3	21.0	
393565	2003 <i>JK</i>	6 16.5 107°97 4°7/16.6 17						507109	2009 <i>OO</i> ₁₃	6 16.5 289°34 10°1/16.5 17				
5 11	18 11.37	-37 19.2	2.630	3.432	11.7	22.0	5 11	18 6.04	-0 6.9	1.606	2.417	17.6	21.4	
5 21	18 5.15	-38 11.4	2.565	3.452	9.4	21.9	5 21	18 1.96	+0 31.7	1.517	2.398	15.1	21.1	
5 31	17 56.83	-38 55.8	2.524	3.471	7.0	21.7	5 31	17 55.29	+0 52.2	1.448	2.378	12.5	20.9	
6 10	17 47.08	-39 28.9	2.510	3.489	5.1	21.6	6 10	17 46.65	+0 49.1	1.400	2.359	10.5	20.8	
6 20	17 36.74	-39 48.2	2.523	3.508	4.8	21.6	6 20	17 36.95	+0 19.2	1.375	2.339	10.2	20.7	
6 30	17 26.80	-39 53.3	2.564	3.526	6.3	21.8	6 30	17 27.38	-0 37.8	1.373	2.320	11.9	20.7	
7 10	17 18.15	-39 46.0	2.632	3.543	8.4	21.9	7 10	17 19.13	-1 58.7	1.394	2.300	14.8	20.9	
7 20	17 11.45	-39 29.5	2.723	3.560	10.6	22.1	7 20	17 13.11	-3 37.8	1.435	2.281	17.9	21.0	
506891	2008 <i>AR</i> ₁₃₆	6 16.5 124°19 5°4/16.7 18						391738	2008 <i>CL</i> ₁₉₉	6 16.5 40°59 0°8/16.4 15				
5 11	18 4.80	-6 6.0	2.327	3.136	12.9	21.2	5 11	18 4.61	-21 12.8	2.079	2.921	13.0	21.5	
5 21	17 59.98	-5 56.0	2.253	3.142	10.4	21.0	5 21	18 0.16	-21 8.6	2.006	2.926	10.0	21.3	
5 31	17 53.43	-5 56.5	2.202	3.148	7.9	20.9	5 31	17 53.69	-21 5.1	1.955	2.932	6.4	21.1	
6 10	17 45.70	-6 9.1	2.175	3.154	5.9	20.7	6 10	17 45.85	-21 2.1	1.929	2.938	2.7	20.9	
6 20	17 37.49	-6 34.0	2.176	3.160	5.5	20.7	6 20	17 37.46	-20 59.4	1.931	2.945	1.6	20.8	
6 30	17 29.57	-7 10.8	2.204	3.166	7.1	20.8	6 30	17 29.44	-20 57.4	1.960	2.951	5.3	21.0	
7 10	17 22.67	-7 57.5	2.257	3.171	9.5	21.0	7 10	17 22.66	-20 56.7	2.015	2.958	8.9	21.3	
7 20	17 17.34	-8 51.9	2.335	3.177	12.0	21.2	7 20	17 17.72	-20 58.2	2.093	2.965	12.0	21.5	
50093	2000 <i>AT</i> ₉₆	6 16.5 127°40 0°8/16.5 18						53333	1999 <i>JZ</i> ₃₆	6 16.5 89°49 3°0/16.5 18				
5 11	18 13.08	-23 52.3	1.463	2.311	17.2	18.8	5 11	18 8.02	-30 4.7	2.144	2.975	13.1	18.7	
5 21	18 7.52	-24 15.8	1.397	2.321	13.2	18.5	5 21	18 3.00	-30 47.6	2.065	2.977	10.2	18.5	
5 31	17 58.86	-24 39.7	1.351	2.330	8.6	18.3	5 31	17 55.68	-31 27.1	2.009	2.979	7.0	18.3	
6 10	17 48.01	-25 0.8	1.329	2.339	3.5	18.0	6 10	17 46.70	-31 59.8	1.979	2.981	3.9	18.1	
6 20	17 36.24	-25 17.0	1.333	2.347	2.0	17.9	6 20	17 36.97	-32 23.4	1.976	2.983	3.3	18.1	
6 30	17 25.09	-25 27.4	1.362	2.355	7.0	18.3	6 30	17 27.55	-32 36.6	2.001	2.984	6.0	18.3	
7 10	17 15.91	-25 33.4	1.416	2.363	11.6	18.5	7 10	17 19.45	-32 40.7	2.051	2.986	9.2	18.5	
7 20	17 9.60	-25 37.1	1.491	2.370	15.6	18.8	7 20	17 13.41	-32 37.8	2.125	2.988	12.2	18.6	
2557	Putnam	6 16.5 263°10 4°2/16.0 18						178500	1999 <i>TB</i> ₁₃₀	6 16.5 258°31 5°0/15.7 18				
5 11	18 7.86	-14 54.4	1.653	2.496	15.8	16.5	5 11	18 3.05	-8 56.7	2.453	3.271	12.0	20.4	
5 21	18 3.30	-14 20.0	1.562	2.480	12.4	16.3	5 21	17 58.68	-8 17.1	2.364	3.261	9.7	20.3	
5 31	17 56.11	-13 49.8	1.493	2.465	8.7	16.0	5 31	17 52.64	-7 44.1	2.298	3.251	7.3	20.1	
6 10	17 46.94	-13 26.1	1.447	2.449	5.1	15.8	6 10	17 45.43	-7 19.9	2.258	3.240	5.4	20.0	
6 20	17 36.78	-13 10.6	1.427	2.432	4.6	15.7	6 20	17 37.69	-7 6.1	2.244	3.230	5.2	19.9	
6 30	17 26.84	-13 4.9	1.433	2.416	8.0	15.9	6 30	17 30.15	-7 3.8	2.258	3.220	7.0	20.0	
7 10	17 18.33	-13 9.6	1.463	2.399	12.1	16.1	7 10	17 23.51	-7 12.8	2.297	3.209	9.5	20.2	
7 20	17 12.15	-13 24.3	1.514	2.382	16.0	16.3	7 20	17 18.35	-7 32.1	2.359	3.198	12.0	20.3	
428037	2006 <i>DA</i> ₃₁	6 16.5 8°35 2°0/16.4 17						120819	1998 <i>HA</i> ₈₇	6 16.5 32°14 0°6/16.6 18				
5 11	18 3.43	-19 29.4	1.381	2.247	17.0	20.7	5 11	18 7.13	-25 18.2	1.579	2.432	15.9	19.7	
5 21	18 0.17	-19 17.0	1.315	2.248	13.1	20.4	5 21	18 2.75	-25 15.3	1.511	2.438	12.2	19.5	
5 31	17 54.12	-19 7.4	1.269	2.251	8.6	20.2	5 31	17 55.66	-25 9.7	1.464	2.443	7.9	19.2	
6 10	17 46.11	-19 1.2	1.245	2.254	3.9	19.9	6 10	17 46.71	-25 0.2	1.440	2.450	3.2	19.0	
6 20	17 37.28	-18 58.6	1.245	2.258	2.7	19.8	6 20	17 37.02	-24 46.4	1.441	2.456	1.8	18.9	
6 30	17 28.97	-19 0.2	1.270	2.264	7.2	20.1	6 30	17 27.89	-24 29.3	1.469	2.463	6.4	19.2	
7 10	17 22.40	-19 6.3	1.317	2.270	11.8	20.4	7 10	17 20.47	-24 11.1	1.520	2.470	10.8	19.5	
7 20	17 18.39	-19 17.3	1.385	2.277	15.8	20.7	7 20	17 15.55	-23 54.2	1.594	2.478	14.5	19.7	
338756	2003 <i>UX</i> ₁₈₈	6 16.5 239°13 4°7/16.7 18						318453	2005 <i>ET</i> ₄	6 16.5 36°79 4°2/16.5 17				
5 11	18 10.64	-35 36.8	2.184	3.002	13.3	21.1	5 11	18 6.75	-14 41.9	1.276	2.137	18.4	20.2	
5 21	18 5.20	-36 15.5	2.094	2.992	10.7	20.9	5 21	18 2.78	-14 24.9	1.216	2.144	14.4	20.0	
5 31	17 57.21	-36 47.0	2.025	2.982	7.8	20.7	5 31	17 55.84	-14 16.2	1.176	2.152	9.8	19.8	
6 10	17 47.35	-37 7.2	1.982	2.971	5.4	20.5	6 10	17 46.83	-14 17.5	1.157	2.161	5.5	19.5	
6 20	17 36.57	-37 13.2	1.965	2.961	4.9	20.4	6 20	17 36.99	-14 28.9	1.162	2.170	4.6	19.5	
6 30	17 26.06	-37 4.2	1.976	2.950	7.0	20.5	6 30	17 27.77	-14 50.3	1.191	2.180	8.4	19.8	
7 10	17 16.96	-36 42.5	2.012	2.938	9.9	20.7	7 10	17 20.47	-15 20.2	1.242	2.190	12.8	20.0	
7 20	17 10.11	-36 11.9	2.072	2.927	12.8	20.9	7 20	17 15.90	-15 56.9	1.313	2.200	16.8	20.3	
334694	2003 <i>BY</i> ₈₆	6 16.5 74°76 1°8/16.4 17						145230	2005 <i>JM</i> ₇₅	6 16.5 327°69 10°3/17.6 17				
5 11	18 7.79	-19 15.3	1.628	2.476	15.7	21.6	5 11	18 3.60	-1 29.6	1.243	2.082	20.1	19.3	
5 21	18 3.06	-19 7.4	1.560	2.484	12.									

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
406323	2007 PE ₁		6 16.5	16 ^o 13	7 ^o 5/16.5	17	273266	2006 LD ₆		6 16.5	313 ^o 02	0 ^o 5/16.6	17
5 11	18 2.60	-10 45.1	0.960	1.841	21.4	20.0	5 11	18 7.54	-26 6.0	1.331	2.194	17.7	20.8
5 21	18 0.27	-10 0.8	0.910	1.845	17.2	19.7	5 21	18 3.80	-25 45.6	1.249	2.181	13.7	20.5
5 31	17 54.52	-9 31.0	0.876	1.851	12.5	19.5	5 31	17 56.79	-25 19.6	1.187	2.169	9.0	20.2
6 10	17 46.37	-9 20.5	0.861	1.858	8.5	19.3	6 10	17 47.35	-24 46.9	1.148	2.158	3.7	19.8
6 20	17 37.25	-9 31.6	0.866	1.867	7.9	19.3	6 20	17 36.74	-24 7.9	1.132	2.146	2.0	19.7
6 30	17 28.87	-10 3.9	0.891	1.877	11.1	19.5	6 30	17 26.58	-23 25.2	1.140	2.136	7.6	20.0
7 10	17 22.72	-10 53.8	0.936	1.888	15.5	19.8	7 10	17 18.38	-22 42.9	1.171	2.125	12.8	20.2
7 20	17 19.69	-11 56.0	0.999	1.900	19.6	20.1	7 20	17 13.16	-22 5.1	1.222	2.116	17.3	20.5
283728	2002 TY ₃₄₁		6 16.5	324 ^o 11	2 ^o 9/16.4	17	497088	2003 XB ₂₄		6 16.5	205 ^o 95	0 ^o 4/16.5	17
5 11	18 4.39	-16 5.5	1.761	2.607	14.8	20.5	5 11	18 10.69	-22 28.4	1.912	2.747	14.2	22.4
5 21	18 0.46	-15 57.4	1.677	2.599	11.5	20.3	5 21	18 5.15	-22 24.7	1.825	2.743	11.0	22.2
5 31	17 54.16	-15 54.6	1.615	2.591	7.8	20.1	5 31	17 57.14	-22 20.6	1.761	2.737	7.1	21.9
6 10	17 46.16	-15 57.8	1.578	2.583	4.1	19.8	6 10	17 47.36	-22 15.2	1.722	2.731	2.9	21.7
6 20	17 37.34	-16 7.3	1.565	2.575	3.3	19.8	6 20	17 36.76	-22 8.2	1.710	2.725	1.6	21.6
6 30	17 28.80	-16 22.9	1.579	2.568	6.8	19.9	6 30	17 26.49	-22 0.0	1.726	2.718	6.0	21.8
7 10	17 21.59	-16 44.3	1.618	2.561	10.7	20.2	7 10	17 17.63	-21 52.0	1.769	2.710	10.1	22.1
7 20	17 16.47	-17 10.8	1.678	2.554	14.3	20.4	7 20	17 10.98	-21 45.7	1.834	2.701	13.7	22.3
476911	2008 WO ₄₄		6 16.5	293 ^o 49	1 ^o 5/16.5	17	267275	2001 RH ₅₉		6 16.5	207 ^o 12	18 ^o 3/16.1	17
5 11	18 7.52	-25 28.9	1.759	2.605	14.8	21.4	5 11	18 35.38	-58 50.7	1.418	2.162	22.5	20.5
5 21	18 3.26	-25 55.9	1.661	2.583	11.5	21.2	5 21	18 29.43	-61 15.1	1.359	2.159	20.8	20.4
5 31	17 56.24	-26 22.9	1.584	2.562	7.6	20.9	5 31	18 16.04	-63 16.0	1.315	2.155	19.4	20.2
6 10	17 47.10	-26 47.3	1.532	2.541	3.4	20.6	6 10	17 55.90	-64 36.1	1.288	2.151	18.5	20.2
6 20	17 36.79	-27 6.7	1.506	2.520	2.2	20.4	6 20	17 31.96	-65 1.2	1.279	2.146	18.4	20.1
6 30	17 26.58	-27 19.8	1.506	2.498	6.6	20.7	6 30	17 9.11	-64 27.1	1.287	2.141	19.2	20.2
7 10	17 17.77	-27 27.0	1.531	2.477	11.0	20.9	7 10	16 51.78	-63 3.7	1.313	2.135	20.6	20.3
7 20	17 11.34	-27 30.5	1.578	2.456	14.9	21.1	7 20	16 41.94	-61 7.5	1.354	2.129	22.3	20.4
328100	2008 AJ ₂₀		6 16.5	158 ^o 93	0 ^o 4/16.5	17	179825	2002 TO ₁₃₀		6 16.5	283 ^o 56	2 ^o 9/16.1	17
5 11	18 10.85	-21 49.4	1.847	2.683	14.6	22.0	5 11	18 7.32	-18 32.5	1.551	2.403	16.2	20.3
5 21	18 5.22	-21 55.2	1.771	2.689	11.2	21.8	5 21	18 3.08	-17 56.8	1.464	2.389	12.6	20.1
5 31	17 57.13	-22 1.8	1.718	2.694	7.3	21.6	5 31	17 56.07	-17 22.1	1.398	2.375	8.5	19.8
6 10	17 47.31	-22 8.1	1.689	2.699	2.9	21.3	6 10	17 47.01	-16 49.9	1.355	2.361	4.3	19.5
6 20	17 36.76	-22 13.1	1.689	2.703	1.6	21.2	6 20	17 36.94	-16 22.0	1.337	2.347	3.6	19.4
6 30	17 26.63	-22 16.8	1.715	2.706	6.0	21.5	6 30	17 27.16	-16 0.5	1.344	2.333	7.7	19.6
7 10	17 18.02	-22 20.1	1.767	2.709	10.0	21.7	7 10	17 18.95	-15 47.1	1.376	2.319	12.2	19.9
7 20	17 11.66	-22 24.1	1.843	2.712	13.5	22.0	7 20	17 13.22	-15 42.8	1.428	2.305	16.2	20.1
100371	1995 UO ₅₂		6 16.5	351 ^o 46	4 ^o 1/16.1	18	253108	2002 UO ₆		6 16.5	272 ^o 91	0 ^o 2/16.5	18
5 11	18 2.62	-17 25.0	1.134	2.011	19.0	19.5	5 11	18 9.07	-21 12.0	1.653	2.499	15.6	20.5
5 21	18 0.13	-16 42.3	1.066	2.005	14.9	19.2	5 21	18 4.50	-21 35.3	1.560	2.483	12.1	20.3
5 31	17 54.42	-16 2.8	1.017	1.999	10.1	18.9	5 31	17 57.08	-22 2.2	1.487	2.466	7.9	20.0
6 10	17 46.36	-15 29.8	0.989	1.995	5.5	18.6	6 10	17 47.47	-22 31.1	1.439	2.449	3.2	19.7
6 20	17 37.25	-15 5.8	0.982	1.992	4.7	18.6	6 20	17 36.66	-22 59.7	1.417	2.432	1.8	19.5
6 30	17 28.67	-14 53.3	0.998	1.990	9.1	18.8	6 30	17 25.97	-23 26.5	1.421	2.414	6.7	19.8
7 10	17 22.07	-14 53.2	1.035	1.989	14.0	19.1	7 10	17 16.75	-23 51.2	1.450	2.397	11.4	20.0
7 20	17 18.41	-15 4.9	1.090	1.989	18.5	19.3	7 20	17 10.01	-24 14.4	1.501	2.379	15.5	20.2
506478	2003 HX ₃₄		6 16.5	261 ^o 79	8 ^o 2/15.9	18	127751	2003 FV ₂₀		6 16.5	71 ^o 80	2 ^o 3/16.8	18
5 11	18 14.63	-41 2.1	1.867	2.676	15.6	20.8	5 11	18 12.40	-29 11.6	1.293	2.149	18.5	19.5
5 21	18 9.24	-42 26.4	1.780	2.663	13.0	20.6	5 21	18 7.32	-29 9.3	1.234	2.160	14.4	19.2
5 31	18 0.42	-43 41.8	1.714	2.650	10.5	20.5	5 31	17 58.85	-28 59.6	1.194	2.172	9.5	19.0
6 10	17 48.88	-44 40.5	1.671	2.636	8.6	20.3	6 10	17 48.06	-28 39.9	1.176	2.184	4.5	18.7
6 20	17 35.82	-45 16.0	1.653	2.622	8.4	20.3	6 20	17 36.46	-28 9.4	1.183	2.196	2.9	18.7
6 30	17 22.90	-45 25.5	1.661	2.608	10.1	20.3	6 30	17 25.75	-27 30.7	1.214	2.208	7.5	19.0
7 10	17 11.82	-45 11.3	1.691	2.594	12.8	20.5	7 10	17 17.37	-26 48.4	1.269	2.220	12.3	19.3
7 20	17 3.78	-44 39.2	1.743	2.580	15.6	20.6	7 20	17 12.14	-26 7.4	1.344	2.232	16.4	19.6
292188	2006 SW ₂₇		6 16.5	237 ^o 23	1 ^o 6/16.3	17	173531	2000 WB ₂₉		6 16.5	210 ^o 95	0 ^o 1/16.5	17
5 11	18 10.13	-20 16.2	1.934	2.769	14.1	22.2	5 11	18 11.46	-20 46.5	1.643	2.485	15.9	20.5
5 21	18 4.74	-19 55.3	1.838	2.754	11.0	22.0	5 21	18 6.21	-21 25.4	1.561	2.482	12.3	20.3
5 31	17 56.91	-19 34.5	1.764	2.739	7.2	21.7	5 31	17 58.10	-22 9.1	1.501	2.478	8.0	20.0
6 10	17 47.28	-19 13.9	1.716	2.723	3.2	21.5	6 10	17 47.84	-22 54.9	1.465	2.474	3.2	19.7
6 20	17 36.76	-18 54.2	1.694	2.707	2.3	21.4	6 20	17 36.50	-23 39.7	1.455	2.470	1.7	19.6
6 30	17 26.46	-18 36.5	1.701	2.689	6.3	21.6	6 30	17 25.43	-24 21.0	1.473	2.465	6.6	19.9
7 10	17 17.48	-18 22.4	1.733	2.672	10.4	21.8	7 10	17 15.95	-24 58.1	1.516	2.460	11.2	20.2
7 20	17 10.64	-18 13.2	1.788	2.653	14.1	22.0	7 20	17 9.02	-25 31.3	1.581	2.455	15.1	20.4
491412	2012 DA ₆₁		6 16.5	213 ^o 62	19 ^o 8/12.9	18	143756	2003 WF ₄		6 16.5	192 ^o 91	1 ^o 1/16.4	17
5 11	18 10.31	+12 15.1	1.236	2.010	23.8	21.9	5 11	18 10.58	-20 48.8	1.949	2.782	14.1	21.2
5 21	18 5.73	+14 43.9	1.182	2.006	22.0	21.7	5 21	18 4.96	-20 42.0	1.864	2.781	10.9	21.0
5 31	17 57.93	+16 43.7	1.143	2.001	20.6	21.6	5 31	17 56.97	-20 36.0	1.803	2.778	7.1	20.7
6 10	17 47.77	+18 2.0	1.121	1.996	19.9	21.5	6 10	17 47.29	-20 30.4	1.767	2.775	3.0	20.5
6 20	17 36.50	+18 30.1	1.116	1.990	20.1	21.5	6 20	17 36.85	-20 24.8	1.758	2.772	1.9	20.4
6 30	17 25.68	+18 5.0	1.127	1.983	21.2	21.6	6 30	17 26.76	-20 19.9	1.778	2.768	6.0	20.6
7 10	17 16.76	+16 51.5	1.154	1.976	22.9	21.7	7 10	17 18.05	-20 16.6	1.823	2.763	9.9	20.9
7 20	17 10.75	+14 58.9	1.194	1.968	24.8	21.8	7 20	17 11.48	-20 16.1	1.892	2.757		

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
349791	2009 <i>BO</i> ₆₉		6 16.5 232°07	4°0/17.1	18		505844	2015 <i>CS</i> ₃₉		6 16.5 105°09	7°8/15.9	17	
5 11	18 10.68	-35 21.3	2.254	3.070	13.0	21.3	5 11	18 6.63	-3 32.5	1.934	2.743	15.1	21.6
5 21	18 5.05	-35 33.6	2.162	3.061	10.4	21.1	5 21	18 1.62	-2 37.0	1.874	2.757	12.5	21.4
5 31	17 57.03	-35 37.3	2.093	3.052	7.5	20.9	5 31	17 54.61	-1 54.3	1.836	2.771	10.0	21.3
6 10	17 47.32	-35 29.4	2.049	3.043	4.8	20.7	6 10	17 46.29	-1 27.9	1.821	2.784	8.2	21.2
6 20	17 36.85	-35 8.3	2.032	3.033	4.1	20.6	6 20	17 37.49	-1 20.1	1.831	2.797	8.0	21.2
6 30	17 26.73	-34 34.5	2.043	3.023	6.3	20.7	6 30	17 29.14	-1 31.3	1.867	2.810	9.5	21.3
7 10	17 18.02	-33 51.0	2.081	3.012	9.3	20.9	7 10	17 22.08	-1 59.8	1.926	2.823	11.8	21.5
7 20	17 11.47	-33 1.8	2.142	3.001	12.3	21.1	7 20	17 16.89	-2 42.4	2.007	2.835	14.2	21.7
172445	2003 <i>QM</i> ₅₇		6 16.5 274°30	0°7/16.6	18		428615	2008 <i>FL</i> ₄		6 16.5 261°83	2°9/16.6	18	
5 11	18 10.33	-24 32.3	1.587	2.435	16.1	20.6	5 11	18 11.97	-29 10.5	1.788	2.623	15.1	21.8
5 21	18 5.73	-24 42.8	1.488	2.412	12.6	20.3	5 21	18 6.80	-29 41.6	1.687	2.602	11.9	21.5
5 31	17 58.05	-24 52.7	1.410	2.388	8.3	20.0	5 31	17 58.65	-30 9.8	1.608	2.581	8.1	21.3
6 10	17 47.93	-24 59.7	1.355	2.364	3.5	19.7	6 10	17 48.16	-30 31.2	1.554	2.558	4.3	21.0
6 20	17 36.44	-25 2.2	1.325	2.340	2.0	19.5	6 20	17 36.38	-30 42.6	1.525	2.535	3.3	20.9
6 30	17 25.04	-24 59.5	1.322	2.315	7.1	19.8	6 30	17 24.69	-30 42.6	1.524	2.512	7.1	21.0
7 10	17 15.21	-24 53.2	1.343	2.290	12.1	20.0	7 10	17 14.50	-30 32.8	1.548	2.488	11.3	21.2
7 20	17 8.06	-24 45.9	1.385	2.264	16.5	20.2	7 20	17 6.89	-30 16.7	1.593	2.463	15.2	21.4
241334	2007 <i>VV</i> ₂₀₆		6 16.5 247°64	1°3/16.5	18		225852	2001 <i>XK</i> ₁₆₆		6 16.5 117°44	1°0/16.5	17	
5 11	18 8.01	-25 6.5	2.172	3.005	12.8	20.7	5 11	18 8.76	-20 23.2	1.861	2.701	14.4	20.7
5 21	18 3.01	-25 42.0	2.081	2.996	9.9	20.5	5 21	18 3.56	-20 24.8	1.791	2.710	11.0	20.5
5 31	17 55.76	-26 17.8	2.013	2.988	6.5	20.3	5 31	17 56.03	-20 28.1	1.742	2.719	7.2	20.3
6 10	17 46.85	-26 51.5	1.971	2.979	2.9	20.0	6 10	17 46.91	-20 32.7	1.719	2.728	3.0	20.1
6 20	17 37.10	-27 20.8	1.956	2.969	1.9	20.0	6 20	17 37.15	-20 37.9	1.722	2.736	1.9	20.0
6 30	17 27.54	-27 44.4	1.970	2.960	5.5	20.2	6 30	17 27.83	-20 43.6	1.753	2.745	5.9	20.3
7 10	17 19.14	-28 2.3	2.011	2.951	9.1	20.4	7 10	17 19.97	-20 50.5	1.810	2.753	9.8	20.5
7 20	17 12.70	-28 15.9	2.075	2.941	12.3	20.6	7 20	17 14.25	-20 59.2	1.889	2.760	13.2	20.8
214176	2005 <i>CA</i> ₆₇		6 16.5 82°53	0°1/16.5	17		330356	2006 <i>VX</i> ₆₆		6 16.5 239°65	0°1/16.5	17	
5 11	18 10.61	-22 17.8	1.454	2.306	17.0	20.2	5 11	18 10.21	-23 9.5	1.874	2.712	14.4	21.9
5 21	18 5.58	-22 32.5	1.392	2.318	13.1	20.0	5 21	18 5.00	-23 17.9	1.780	2.699	11.1	21.7
5 31	17 57.60	-22 48.5	1.350	2.330	8.4	19.8	5 31	17 57.21	-23 26.4	1.709	2.685	7.3	21.4
6 10	17 47.58	-23 3.9	1.332	2.342	3.4	19.5	6 10	17 47.49	-23 33.6	1.662	2.672	3.0	21.1
6 20	17 36.76	-23 17.0	1.339	2.353	1.8	19.4	6 20	17 36.80	-23 38.1	1.643	2.657	1.6	21.0
6 30	17 26.57	-23 27.4	1.371	2.365	6.8	19.8	6 30	17 26.31	-23 39.9	1.650	2.642	6.1	21.3
7 10	17 18.29	-23 36.0	1.428	2.377	11.4	20.1	7 10	17 17.20	-23 39.8	1.684	2.627	10.4	21.5
7 20	17 12.73	-23 44.2	1.506	2.388	15.3	20.3	7 20	17 10.35	-23 39.5	1.740	2.611	14.1	21.7
478610	2012 <i>TY</i> ₁₅₀		6 16.5 285°06	1°5/16.7	16		341255	2007 <i>RM</i> ₂₁₆		6 16.5 291°00	1°2/16.6	17	
5 11	18 7.47	-27 17.0	1.872	2.714	14.2	21.4	5 11	18 6.99	-26 30.7	1.878	2.721	14.1	21.1
5 21	18 2.92	-27 24.7	1.782	2.702	11.0	21.2	5 21	18 2.52	-26 34.4	1.788	2.709	11.0	20.9
5 31	17 55.84	-27 28.9	1.714	2.690	7.3	21.0	5 31	17 55.57	-26 35.0	1.721	2.698	7.2	20.7
6 10	17 46.91	-27 27.8	1.671	2.678	3.3	20.7	6 10	17 46.81	-26 31.0	1.678	2.687	3.1	20.4
6 20	17 37.08	-27 20.1	1.653	2.667	2.1	20.6	6 20	17 37.18	-26 21.4	1.661	2.675	1.9	20.3
6 30	17 27.54	-27 6.2	1.663	2.655	6.1	20.8	6 30	17 27.85	-26 6.6	1.672	2.664	6.0	20.5
7 10	17 19.42	-26 47.9	1.698	2.643	10.1	21.0	7 10	17 19.91	-25 48.5	1.707	2.653	10.0	20.7
7 20	17 13.55	-26 27.9	1.755	2.631	13.8	21.2	7 20	17 14.19	-25 29.6	1.765	2.642	13.7	20.9
148273	2000 <i>GB</i> ₃₇		6 16.5 257°37	1°5/16.6	18		385581	2004 <i>XZ</i> ₁₇		6 16.5 279°50	3°0/16.2	18	
5 11	18 10.41	-26 28.3	1.884	2.721	14.4	20.1	5 11	18 10.34	-27 35.9	1.869	2.705	14.5	20.9
5 21	18 5.29	-26 44.3	1.785	2.702	11.2	19.8	5 21	18 5.46	-28 34.8	1.769	2.685	11.3	20.7
5 31	17 57.48	-26 58.1	1.708	2.683	7.4	19.5	5 31	17 57.77	-29 34.7	1.691	2.664	7.7	20.4
6 10	17 47.62	-27 7.6	1.656	2.663	3.3	19.2	6 10	17 47.82	-30 31.3	1.638	2.643	4.1	20.2
6 20	17 36.67	-27 10.8	1.630	2.643	2.1	19.1	6 20	17 36.57	-31 20.1	1.613	2.621	3.4	20.1
6 30	17 25.88	-27 7.2	1.632	2.623	6.3	19.3	6 30	17 25.31	-31 58.1	1.614	2.600	7.0	20.2
7 10	17 16.47	-26 58.2	1.659	2.601	10.5	19.5	7 10	17 15.37	-32 25.0	1.641	2.578	11.0	20.4
7 20	17 9.38	-26 46.5	1.709	2.580	14.3	19.7	7 20	17 7.82	-32 42.4	1.690	2.556	14.7	20.6
63025	2000 <i>WC</i> ₅₂		6 16.5 65°69	0°5/16.6	18		84198	2002 <i>RQ</i> ₁₂₀		6 16.5 259°12	0°8/16.6	18	
5 11	18 5.65	-24 23.2	2.201	3.038	12.5	19.6	5 11	18 10.38	-25 20.4	1.833	2.672	14.6	20.8
5 21	18 0.94	-24 33.5	2.126	3.044	9.6	19.4	5 21	18 5.30	-25 24.2	1.734	2.652	11.4	20.5
5 31	17 54.23	-24 42.8	2.074	3.051	6.2	19.2	5 31	17 57.51	-25 25.9	1.656	2.632	7.5	20.2
6 10	17 46.16	-24 50.0	2.049	3.058	2.5	19.0	6 10	17 47.66	-25 23.7	1.603	2.612	3.2	19.9
6 20	17 37.52	-24 54.3	2.050	3.065	1.4	18.9	6 20	17 36.72	-25 16.3	1.576	2.591	1.8	19.8
6 30	17 29.24	-24 55.5	2.080	3.072	5.1	19.2	6 30	17 25.94	-25 4.0	1.577	2.569	6.3	20.0
7 10	17 22.17	-24 54.7	2.136	3.079	8.5	19.4	7 10	17 16.57	-24 48.6	1.603	2.547	10.7	20.2
7 20	17 16.93	-24 53.0	2.215	3.086	11.5	19.6	7 20	17 9.56	-24 32.6	1.652	2.525	14.7	20.4
118934	2000 <i>WG</i> ₃₁		6 16.5 175°54	1°6/16.4	18		92034	1999 <i>VP</i> ₁₇₉		6 16.5 256°35	6°8/15.3	18	
5 11	18 4.61	-17 41.2	2.712	3.538	10.8	20.4	5 11	18 2.60	-3 22.9	2.500	3.301	12.3	19.8
5 21	17 59.75	-17 39.2	2.628	3.539	8.3	20.2	5 21	17 58.33	-2 29.0	2.416	3.293	10.3	19.7
5 31	17 53.29	-17 39.7	2.568	3.540	5.5	20.0	5 31	17 52.44	-1 44.3	2.355	3.285	8.3	19.5
6 10	17 45.75	-17 42.8	2.536	3.541	2.6	19.8	6 10	17 45.45	-1 12.1	2.318	3.276	7.0	19.4
6 20	17 37.74	-17 48.3	2.531	3.542	2.0	19.8	6 20	17 37.96	-0 54.4	2.308	3.268	7.0	19.4
6 30	17 29.97	-17 56.4	2.555	3.542	4.7	20.0	6 30	17 30.67	-0 52.6	2.323	3.260	8.3	19.5
7 10	17 23.10	-18 7.0	2.607	3.542	7.5	20.2	7 10	17 24.26	-1 5.9	2.364	3.251	10.3	19.6
7 20	17 17.64	-18 20.1	2.684	3.542	10.1	20.3	7 20	17 19.26	-1 32.9	2.426	3.242	12.4	19.7
495181	Rogerwaters		6 16.5 282°45	8°9/16.3	18		154949	2004 <i>TF</i> _{78</}					

EPHEMERIDES

6 16.5

6 16.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
471763	2012 <i>UP</i> ₁₁₄		6 16.5 286°75	2°5/16.7	16		21728	Zhuzhirui		6 16.5 155°91	7°7/16.5	18	
5 11	18 8.05	-29 20.4	1.857	2.697	14.4	21.6	5 11	18 5.95	-2 38.3	1.993	2.798	14.8	18.6
5 21	18 3.45	-29 38.6	1.770	2.687	11.2	21.4	5 21	18 1.20	-2 3.1	1.921	2.801	12.4	18.4
5 31	17 56.24	-29 52.4	1.704	2.677	7.6	21.1	5 31	17 54.44	-1 41.5	1.869	2.803	9.9	18.2
6 10	17 47.11	-29 59.1	1.662	2.667	3.9	20.9	6 10	17 46.30	-1 36.6	1.842	2.805	8.1	18.1
6 20	17 37.06	-29 56.8	1.647	2.657	2.9	20.8	6 20	17 37.57	-1 50.1	1.839	2.807	7.8	18.1
6 30	17 27.32	-29 45.5	1.658	2.647	6.4	21.0	6 30	17 29.16	-2 21.8	1.862	2.809	9.3	18.2
7 10	17 19.05	-29 27.0	1.694	2.638	10.3	21.2	7 10	17 21.94	-3 9.7	1.910	2.811	11.6	18.4
7 20	17 13.12	-29 4.7	1.753	2.628	13.8	21.4	7 20	17 16.54	-4 10.3	1.979	2.813	14.2	18.5
126400	2002 <i>BX</i> ₁₀		6 16.5 164°88	3°8/16.5	18		185569	2008 <i>AS</i> ₇₇		6 16.5 336°85	3°7/17.0	16	
5 11	18 7.74	-12 4.0	2.206	3.027	13.1	20.8	5 11	18 7.75	-33 40.1	1.992	2.823	13.9	20.1
5 21	18 2.41	-11 53.8	2.128	3.032	10.3	20.6	5 21	18 3.04	-33 52.3	1.910	2.819	11.0	19.9
5 31	17 55.15	-11 50.4	2.073	3.036	7.2	20.4	5 31	17 55.84	-33 56.5	1.850	2.816	7.7	19.7
6 10	17 46.56	-11 54.7	2.044	3.040	4.5	20.3	6 10	17 46.92	-33 49.7	1.815	2.813	4.7	19.5
6 20	17 37.40	-12 7.0	2.042	3.043	4.0	20.2	6 20	17 37.25	-33 30.7	1.806	2.811	3.9	19.5
6 30	17 28.55	-12 27.1	2.068	3.046	6.4	20.4	6 30	17 28.00	-33 0.2	1.823	2.808	6.4	19.6
7 10	17 20.83	-12 54.3	2.120	3.048	9.4	20.6	7 10	17 20.26	-32 21.1	1.866	2.806	9.8	19.8
7 20	17 14.85	-13 27.2	2.197	3.049	12.3	20.8	7 20	17 14.77	-31 37.5	1.932	2.804	12.9	20.0
171346	2006 <i>KP</i> ₂₃		6 16.5 1°59	0°2/16.5	17		112587	2002 <i>PU</i> ₅₆		6 16.5 294°83	3°3/16.2	18	
5 11	18 6.59	-22 32.0	1.180	2.052	18.9	19.9	5 11	18 5.05	-16 1.0	1.864	2.706	14.3	19.9
5 21	18 3.28	-22 48.5	1.114	2.050	14.6	19.6	5 21	18 0.98	-15 35.1	1.768	2.687	11.2	19.7
5 31	17 56.57	-23 7.0	1.066	2.050	9.5	19.3	5 31	17 54.58	-15 12.7	1.694	2.668	7.7	19.4
6 10	17 47.34	-23 25.7	1.039	2.050	3.9	19.0	6 10	17 46.46	-14 55.3	1.645	2.648	4.3	19.2
6 20	17 36.95	-23 42.2	1.036	2.051	2.1	18.9	6 20	17 37.47	-14 44.0	1.622	2.629	3.7	19.1
6 30	17 27.12	-23 55.8	1.055	2.052	7.8	19.2	6 30	17 28.65	-14 39.9	1.624	2.610	7.0	19.3
7 10	17 19.40	-24 7.1	1.097	2.054	13.1	19.5	7 10	17 21.03	-14 43.7	1.652	2.591	10.8	19.4
7 20	17 14.81	-24 17.6	1.158	2.057	17.6	19.8	7 20	17 15.43	-14 55.3	1.702	2.572	14.4	19.6
4635	Rimbaud		6 16.5 85°64	3°2/16.7	18		278268	2007 <i>FK</i> ₃₂		6 16.5 351°80	11°9/14.1	18	
5 11	18 12.44	-29 50.6	1.608	2.449	16.2	16.9	5 11	18 1.51	-2 27.0	1.351	2.191	18.8	19.9
5 21	18 6.87	-30 23.1	1.548	2.465	12.6	16.7	5 21	17 58.67	-0 33.5	1.288	2.185	16.1	19.7
5 31	17 58.39	-30 50.3	1.509	2.481	8.5	16.5	5 31	17 53.22	+1 5.6	1.243	2.179	13.6	19.5
6 10	17 47.92	-31 8.3	1.494	2.497	4.5	16.3	6 10	17 45.91	+2 21.8	1.219	2.175	12.1	19.4
6 20	17 36.70	-31 14.6	1.504	2.513	3.5	16.2	6 20	17 37.79	+3 8.6	1.216	2.172	12.2	19.4
6 30	17 26.17	-31 9.3	1.541	2.529	7.0	16.5	6 30	17 30.09	+3 22.4	1.235	2.170	14.0	19.5
7 10	17 17.57	-30 55.1	1.603	2.545	10.9	16.7	7 10	17 23.96	+3 4.7	1.272	2.169	16.6	19.7
7 20	17 11.69	-30 35.9	1.686	2.560	14.3	17.0	7 20	17 20.20	+2 20.2	1.327	2.169	19.3	19.9
335183	2005 <i>BP</i> ₄₈		6 16.5 140°47	3°6/16.3	17		342487	2008 <i>UP</i> ₁₅₈		6 16.5 1°44	1°6/16.9	18	
5 11	18 7.00	-12 5.4	2.533	3.348	11.8	21.8	5 11	18 8.55	-30 4.7	1.634	2.480	15.8	19.8
5 21	18 1.52	-11 45.9	2.462	3.362	9.2	21.6	5 21	18 3.88	-29 30.3	1.557	2.479	12.2	19.6
5 31	17 54.41	-11 32.0	2.414	3.374	6.5	21.4	5 31	17 56.46	-28 46.4	1.502	2.478	8.1	19.3
6 10	17 46.21	-11 24.7	2.392	3.386	4.2	21.3	6 10	17 47.16	-27 52.4	1.471	2.478	3.7	19.1
6 20	17 37.62	-11 24.4	2.399	3.398	3.8	21.3	6 20	17 37.16	-26 49.4	1.465	2.479	2.2	19.0
6 30	17 29.35	-11 31.5	2.435	3.409	5.8	21.5	6 30	17 27.78	-25 41.0	1.486	2.480	6.4	19.2
7 10	17 22.10	-11 45.7	2.497	3.419	8.4	21.6	7 10	17 20.19	-24 32.3	1.532	2.481	10.7	19.5
7 20	17 16.37	-12 6.0	2.584	3.429	10.9	21.8	7 20	17 15.13	-23 28.0	1.601	2.483	14.5	19.7
159878	2004 <i>RG</i> ₁₃₉		6 16.5 171°60	1°6/16.3	17		356385	2010 <i>OJ</i> ₄₉		6 16.5 345°04	1°0/16.6	18	
5 11	18 8.36	-20 32.5	2.024	2.859	13.6	20.4	5 11	18 5.13	-26 12.6	2.228	3.065	12.4	21.0
5 21	18 3.10	-20 3.1	1.944	2.861	10.4	20.2	5 21	18 0.64	-26 19.9	2.146	3.064	9.5	20.8
5 31	17 55.68	-19 33.5	1.887	2.863	6.8	20.0	5 31	17 54.13	-26 24.9	2.086	3.062	6.2	20.6
6 10	17 46.79	-19 4.1	1.857	2.864	3.1	19.7	6 10	17 46.20	-26 26.3	2.052	3.061	2.7	20.4
6 20	17 37.30	-18 36.1	1.853	2.865	2.3	19.7	6 20	17 37.66	-26 23.3	2.046	3.060	1.6	20.3
6 30	17 28.21	-18 11.0	1.877	2.866	5.9	19.9	6 30	17 29.43	-26 16.3	2.067	3.058	5.1	20.5
7 10	17 20.45	-17 50.3	1.928	2.866	9.5	20.1	7 10	17 22.37	-26 6.3	2.114	3.058	8.5	20.7
7 20	17 14.66	-17 35.4	2.002	2.866	12.8	20.3	7 20	17 17.14	-25 55.2	2.185	3.057	11.6	20.9
329770	2004 <i>JA</i>		6 16.5 107°52	15°3/16.5	15 R		352528	2008 <i>CO</i> ₁₄₈		6 16.5 352°74	8°5/16.5	16	
5 11	19 22.44	-42 15.9	1.027	1.782	28.7	20.5	5 11	18 3.09	+0 1.3	2.021	2.821	14.8	20.5
5 21	19 5.79	-46 28.6	0.997	1.841	23.8	20.3	5 21	17 59.04	+0 39.0	1.948	2.819	12.6	20.3
5 31	18 39.55	-50 17.7	0.988	1.895	19.1	20.2	5 31	17 53.07	+1 1.4	1.895	2.818	10.4	20.2
6 10	18 5.18	-53 4.6	1.005	1.944	15.9	20.2	6 10	17 45.77	+1 5.2	1.865	2.817	8.9	20.1
6 20	17 27.70	-54 23.2	1.049	1.988	15.4	20.3	6 20	17 37.89	+0 48.5	1.860	2.816	8.6	20.1
6 30	16 54.06	-54 17.2	1.120	2.029	17.4	20.6	6 30	17 30.29	+0 11.2	1.879	2.815	9.9	20.2
7 10	16 28.94	-53 15.6	1.213	2.065	20.2	20.9	7 10	17 23.80	-0 44.1	1.921	2.815	12.0	20.3
7 20	16 13.24	-51 50.2	1.324	2.096	22.8	21.2	7 20	17 19.03	-1 53.7	1.985	2.815	14.3	20.4
443399	2014 <i>HS</i> ₃₂		6 16.5 0°07	8°0/15.3	16		39138	2000 <i>WU</i> ₆₈		6 16.5 83°46	2°4/17.1	18 R	
5 11	18 1.44	-5 41.5	1.787	2.617	15.3	20.7	5 11	18 11.93	-31 28.5	1.778	2.612	15.2	18.6
5 21	17 57.99	-4 29.8	1.717	2.615	12.6	20.5	5 21	18 6.11	-31 11.3	1.713	2.627	11.8	18.4
5 31	17 52.47	-3 28.8	1.669	2.614	10.1	20.3	5 31	17 57.69	-30 45.3	1.670	2.642	7.9	18.2
6 10	17 45.52	-2 42.9	1.644	2.614	8.3	20.2	6 10	17 47.60	-30 9.0	1.652	2.657	4.0	18.0
6 20	17 37.98	-2 15.7	1.642	2.614	8.2	20.2	6 20	17 36.99	-29 22.7	1.660	2.671	2.7	17.9
6 30	17 30.79	-2 8.8	1.665	2.616	9.9	20.3	6 30	17 27.11	-28 29.1	1.695	2.686	6.2	18.2
7 10	17 24.83	-2 21.5	1.711	2.617	12.5	20.5	7 10	17 19.05	-27 32.5	1.757	2.700	10.0	18.4
7 20	17 20.76	-2 51.2	1.777	2.620	15.1	20.7	7 20	17 13.46	-26 37.3	1.841	2.714	13.3	18.7
311353	2005 <i>RZ</i> ₂₆		6 16.5 288°53	1°5/16.8	18		475976	2007 <i>NL</i> ₆		6 16.5 316°54	10°4/16.1</		

EPHEMERIDES

6 16.5

6 16.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
354810	2005 VY ₁₃₂		6 16.5 260°63	5°1/16.1 18			211137	2002 GO ₈₇		6 16.6 126°63	2°9/16.4 18		
5 11	18 3.38	- 8 14.4	2.396	3.213	12.3	21.2	5 11	18 12.41	-15 42.2	1.866	2.693	14.8	20.7
5 21	17 59.04	- 7 46.3	2.309	3.204	10.0	21.0	5 21	18 6.17	-15 30.1	1.802	2.712	11.5	20.6
5 31	17 52.99	- 7 26.0	2.244	3.195	7.5	20.8	5 31	17 57.64	-15 22.9	1.760	2.730	7.7	20.4
6 10	17 45.73	- 7 15.6	2.204	3.187	5.5	20.7	6 10	17 47.61	-15 21.1	1.745	2.748	4.1	20.2
6 20	17 37.92	- 7 16.2	2.191	3.178	5.3	20.6	6 20	17 37.03	-15 24.7	1.756	2.764	3.3	20.2
6 30	17 30.30	- 7 28.4	2.205	3.169	7.0	20.7	6 30	17 27.00	-15 33.7	1.796	2.780	6.5	20.4
7 10	17 23.61	- 7 51.6	2.244	3.160	9.5	20.9	7 10	17 18.48	-15 48.0	1.861	2.795	10.1	20.6
7 20	17 18.42	- 8 24.2	2.307	3.151	12.1	21.0	7 20	17 12.14	-16 7.3	1.950	2.809	13.3	20.9
214125	2004 XA ₈₆		6 16.5 173°41	2°0/16.5 17			170478	2003 UZ ₂₆₀		6 16.6 63°18	2°8/16.7 17		
5 11	18 10.60	-17 57.4	1.648	2.489	15.9	20.8	5 11	18 11.02	-28 27.3	1.398	2.251	17.5	19.9
5 21	18 5.37	-18 1.2	1.572	2.491	12.3	20.6	5 21	18 6.27	-28 55.7	1.334	2.259	13.6	19.7
5 31	17 57.45	-18 9.6	1.517	2.493	8.1	20.4	5 31	17 58.28	-29 19.8	1.290	2.267	9.1	19.4
6 10	17 47.62	-18 22.3	1.487	2.494	3.7	20.1	6 10	17 48.01	-29 35.9	1.269	2.276	4.5	19.2
6 20	17 36.92	-18 38.3	1.482	2.495	2.6	20.0	6 20	17 36.79	-29 41.2	1.273	2.284	3.3	19.1
6 30	17 26.62	-18 57.1	1.505	2.495	6.8	20.3	6 30	17 26.24	-29 35.6	1.301	2.293	7.4	19.4
7 10	17 17.91	-19 18.5	1.552	2.495	11.1	20.5	7 10	17 17.76	-29 22.0	1.353	2.302	11.9	19.7
7 20	17 11.62	-19 42.3	1.621	2.495	14.8	20.8	7 20	17 12.27	-29 4.1	1.426	2.311	15.8	20.0
379235	2009 SU ₂₇₅		6 16.5 279°54	1°1/16.5 17			435903	2009 BC ₇		6 16.6 145°20	5°4/16.5 18		
5 11	18 8.09	-20 43.4	1.693	2.539	15.3	22.5	5 11	18 5.90	- 5 47.8	2.463	3.265	12.4	21.2
5 21	18 3.70	-20 40.5	1.596	2.519	11.9	22.2	5 21	18 0.77	- 5 29.2	2.390	3.274	10.1	21.0
5 31	17 56.58	-20 39.2	1.520	2.498	7.8	22.0	5 31	17 54.00	- 5 20.4	2.340	3.282	7.7	20.9
6 10	17 47.36	-20 39.0	1.468	2.477	3.4	21.6	6 10	17 46.12	- 5 23.1	2.315	3.290	5.9	20.8
6 20	17 37.02	-20 39.5	1.442	2.456	2.1	21.5	6 20	17 37.80	- 5 37.8	2.317	3.298	5.5	20.8
6 30	17 26.81	-20 40.9	1.442	2.435	6.8	21.7	6 30	17 29.76	- 6 4.4	2.347	3.305	7.0	20.9
7 10	17 18.01	-20 43.9	1.467	2.413	11.3	21.9	7 10	17 22.71	- 6 41.5	2.404	3.312	9.3	21.0
7 20	17 11.58	-20 49.7	1.514	2.392	15.4	22.1	7 20	17 17.17	- 7 27.0	2.484	3.318	11.6	21.2
440533	2005 UD ₁₂₉		6 16.5 239°33	0°1/16.5 18			523028	2016 PZ ₁₂₄		6 16.6 162°63	0°8/16.5 18		
5 11	18 5.28	-23 16.9	2.604	3.434	11.1	22.3	5 11	18 7.12	-24 27.6	2.840	3.662	10.5	22.2
5 21	18 0.48	-23 16.4	2.510	3.424	8.5	22.2	5 21	18 1.73	-25 1.2	2.756	3.666	8.0	22.0
5 31	17 53.92	-23 15.1	2.439	3.414	5.5	21.9	5 31	17 54.66	-25 34.7	2.697	3.670	5.2	21.8
6 10	17 46.11	-23 12.5	2.395	3.404	2.2	21.7	6 10	17 46.41	-26 6.4	2.666	3.674	2.2	21.6
6 20	17 37.73	-23 8.3	2.379	3.394	1.2	21.6	6 20	17 37.63	-26 34.9	2.664	3.677	1.4	21.5
6 30	17 29.54	-23 2.7	2.392	3.383	4.6	21.8	6 30	17 29.04	-26 59.1	2.692	3.680	4.3	21.8
7 10	17 22.31	-22 56.5	2.432	3.372	7.8	22.0	7 10	17 21.38	-27 19.3	2.747	3.683	7.2	22.0
7 20	17 16.62	-22 50.9	2.497	3.361	10.6	22.2	7 20	17 15.18	-27 35.9	2.828	3.685	9.7	22.1
436848	2012 SH ₂₆		6 16.5 267°24	3°9/16.8 17			21131	1993 FQ ₇		6 16.6 119°08	4°8/16.8 18		
5 11	18 9.54	-32 57.1	1.908	2.740	14.4	21.4	5 11	18 9.64	-36 8.8	2.241	3.057	13.0	19.1
5 21	18 4.59	-33 25.7	1.827	2.736	11.4	21.2	5 21	18 4.35	-36 53.0	2.164	3.061	10.5	19.0
5 31	17 56.97	-33 47.5	1.767	2.733	8.0	21.0	5 31	17 56.67	-37 29.7	2.110	3.064	7.7	18.8
6 10	17 47.44	-33 59.0	1.731	2.729	4.9	20.8	6 10	17 47.29	-37 54.9	2.081	3.067	5.4	18.7
6 20	17 37.04	-33 57.7	1.722	2.726	4.2	20.7	6 20	17 37.16	-38 6.0	2.078	3.071	5.0	18.6
6 30	17 27.02	-33 43.5	1.739	2.722	6.8	20.9	6 30	17 27.39	-38 2.5	2.103	3.074	6.8	18.8
7 10	17 18.57	-33 18.9	1.781	2.719	10.3	21.1	7 10	17 19.02	-37 46.4	2.153	3.077	9.5	18.9
7 20	17 12.52	-32 47.9	1.846	2.715	13.5	21.3	7 20	17 12.82	-37 21.3	2.226	3.080	12.1	19.1
478886	2012 WM ₈		6 16.6 288°06	0°5/16.5 16			309163	2007 AQ ₂₉		6 16.6 152°66	2°5/16.5 18		
5 11	18 6.55	-23 10.4	1.950	2.792	13.7	21.7	5 11	18 4.47	-14 5.1	2.832	3.650	10.6	21.2
5 21	18 1.95	-22 54.4	1.866	2.787	10.6	21.5	5 21	17 59.57	-14 4.1	2.752	3.656	8.2	21.1
5 31	17 55.09	-22 36.8	1.805	2.783	6.9	21.2	5 31	17 53.18	-14 7.6	2.696	3.662	5.6	20.9
6 10	17 46.64	-22 17.4	1.769	2.778	2.8	21.0	6 10	17 45.80	-14 15.9	2.668	3.668	3.2	20.8
6 20	17 37.49	-21 56.5	1.759	2.774	1.6	20.8	6 20	17 38.00	-14 28.9	2.668	3.673	2.7	20.7
6 30	17 28.69	-21 35.4	1.777	2.769	5.7	21.1	6 30	17 30.43	-14 46.5	2.697	3.678	4.8	20.9
7 10	17 21.22	-21 15.6	1.820	2.765	9.6	21.3	7 10	17 23.71	-15 8.1	2.753	3.683	7.4	21.1
7 20	17 15.80	-20 59.1	1.887	2.761	13.0	21.5	7 20	17 18.32	-15 33.2	2.835	3.687	9.8	21.2
18827	1999 NA ₂₆		6 16.6 293°23	3°0/16.7 18			106827	2000 YU		6 16.6 253°59	7°0/16.8 18		
5 11	18 5.22	-13 7.8	2.157	2.986	13.0	16.9	5 11	18 12.87	-45 24.3	2.685	3.460	12.2	20.3
5 21	18 0.77	-13 21.7	2.065	2.975	10.3	16.7	5 21	18 6.94	-46 15.3	2.589	3.444	10.4	20.1
5 31	17 54.29	-13 43.6	1.995	2.963	7.1	16.5	5 31	17 58.47	-46 55.5	2.514	3.427	8.6	20.0
6 10	17 46.33	-14 13.5	1.951	2.952	4.0	16.3	6 10	17 48.09	-47 20.0	2.464	3.409	7.3	19.9
6 20	17 37.63	-14 50.9	1.934	2.941	3.3	16.2	6 20	17 36.75	-47 25.5	2.440	3.392	7.1	19.8
6 30	17 29.07	-15 34.4	1.944	2.929	6.0	16.4	6 30	17 25.61	-47 11.0	2.442	3.374	8.1	19.8
7 10	17 21.55	-16 22.6	1.981	2.918	9.4	16.5	7 10	17 15.83	-46 38.6	2.469	3.355	9.9	19.9
7 20	17 15.77	-17 13.9	2.042	2.907	12.6	16.7	7 20	17 8.27	-45 52.7	2.519	3.337	11.9	20.0
129955	Eriksyrstad		6 16.6 271°74	6°9/15.0 18			75209	1999 VM ₁₉₂		6 16.6 13°80	5°4/16.9 18		
5 11	18 5.79	- 7 17.0	2.045	2.863	14.1	20.0	5 11	18 10.85	-33 53.6	1.389	2.238	17.9	18.5
5 21	18 1.27	- 6 11.2	1.948	2.842	11.6	19.8	5 21	18 6.49	-34 32.6	1.320	2.238	14.2	18.3
5 31	17 54.66	- 5 12.1	1.874	2.820	9.1	19.6	5 31	17 58.63	-35 2.7	1.271	2.240	10.2	18.0
6 10	17 46.49	- 4 23.8	1.823	2.798	7.2	19.5	6 10	17 48.23	-35 18.3	1.244	2.241	6.5	17.8
6 20	17 37.54	- 3 49.7	1.799	2.775	7.2	19.4	6 20	17 36.71	-35 15.6	1.240	2.243	5.6	17.8
6 30	17 28.72	- 3 32.3	1.800	2.753	9.2	19.5	6 30	17 25.81	-34 54.7	1.261	2.245	8.6	18.0
7 10	17 20.96	- 3 32.2	1.826	2.729	12.0	19.6	7 10	17 17.13	-34 19.8	1.304	2.248	12.7	18.2
7 20	17 14.98	- 3 48.2	1.873	2.706	14.9	19.8	7 20	17 11.65	-33 37.1	1.368	2.251	16.5	18.4
355200	2006 XN ₃₆		6 16.6 177°61	0°1/16.6 18			48703						

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
393947	2005 UC ₁₉₈	6 16.6 199°44		4°0/16.6 18			475002	2005 TN ₁₅₇	6 16.6 277°91		4°5/15.7 16		
5 11	18 8.53	-34 30.8	2.504	3.320	11.9	21.6	5 11	18 3.96	-12 0.8	2.287	3.113	12.5	21.7
5 21	18 3.28	-35 11.9	2.420	3.318	9.4	21.4	5 21	17 59.63	-11 13.9	2.194	3.099	10.0	21.5
5 31	17 55.89	-35 47.2	2.359	3.317	6.8	21.3	5 31	17 53.47	-10 31.3	2.124	3.085	7.2	21.3
6 10	17 46.98	-36 13.5	2.324	3.315	4.6	21.1	6 10	17 46.01	-9 55.3	2.080	3.072	5.0	21.1
6 20	17 37.37	-36 28.3	2.316	3.313	4.1	21.1	6 20	17 37.95	-9 28.1	2.063	3.058	4.8	21.1
6 30	17 28.00	-36 31.1	2.337	3.311	6.0	21.2	6 30	17 30.08	-9 11.2	2.073	3.044	6.9	21.2
7 10	17 19.82	-36 23.2	2.383	3.308	8.6	21.4	7 10	17 23.20	-9 5.2	2.109	3.029	9.8	21.4
7 20	17 13.52	-36 7.2	2.454	3.306	11.2	21.5	7 20	17 17.91	-9 9.7	2.167	3.015	12.6	21.5
336652	2009 WP ₂₅₉	6 16.6 211°95		2°6/16.6 18			471267	2011 EO ₄₃	6 16.6 32°85		3°4/16.6 16		
5 11	18 8.76	-14 14.2	2.395	3.214	12.3	21.4	5 11	18 5.70	-15 51.4	1.322	2.184	17.8	20.9
5 21	18 3.24	-14 22.3	2.301	3.206	9.6	21.2	5 21	18 1.91	-15 40.9	1.268	2.198	13.8	20.7
5 31	17 55.79	-14 36.3	2.231	3.197	6.6	21.0	5 31	17 55.30	-15 37.8	1.234	2.212	9.3	20.5
6 10	17 46.94	-14 56.1	2.187	3.188	3.6	20.8	6 10	17 46.79	-15 42.8	1.222	2.228	4.9	20.3
6 20	17 37.39	-15 21.4	2.171	3.179	2.9	20.7	6 20	17 37.59	-15 55.7	1.234	2.244	3.9	20.3
6 30	17 28.01	-15 51.3	2.184	3.168	5.6	20.9	6 30	17 29.05	-16 16.1	1.270	2.261	7.7	20.5
7 10	17 19.63	-16 25.1	2.225	3.157	8.8	21.0	7 10	17 22.35	-16 42.8	1.329	2.278	12.0	20.8
7 20	17 12.89	-17 1.9	2.291	3.145	11.8	21.2	7 20	17 18.25	-17 14.6	1.408	2.297	15.8	21.1
209928	2005 YX ₉₄	6 16.6 350°26		14°3/21.4 18			448518	2010 OV ₁₅	6 16.6 244°24		9°7/13.4 17		
5 11	18 21.36	-51 37.9	0.949	1.775	25.9	19.1	5 11	18 2.98	+ 8 46.4	2.824	3.560	12.5	21.3
5 21	18 17.20	-51 59.2	0.887	1.771	22.7	18.9	5 21	17 58.53	+10 6.7	2.743	3.547	11.3	21.1
5 31	18 6.69	-51 44.3	0.839	1.768	19.2	18.6	5 31	17 52.60	+11 13.5	2.684	3.534	10.3	21.0
6 10	17 51.62	-50 38.9	0.806	1.765	16.0	18.4	6 10	17 45.63	+12 2.7	2.647	3.520	9.7	21.0
6 20	17 35.08	-48 35.6	0.791	1.764	14.3	18.3	6 20	17 38.17	+12 31.2	2.635	3.507	9.9	21.0
6 30	17 20.65	-45 40.5	0.797	1.763	15.3	18.4	6 30	17 30.86	+12 37.7	2.646	3.493	10.6	21.0
7 10	17 10.87	-42 13.7	0.822	1.763	18.4	18.6	7 10	17 24.31	+12 22.9	2.678	3.478	11.8	21.1
7 20	17 6.58	-38 38.8	0.865	1.763	22.2	18.8	7 20	17 19.02	+11 49.0	2.731	3.464	13.1	21.1
204752	2006 JG ₂₁	6 16.6 199°81		4°1/16.3 17			64518	2001 VK ₉₄	6 16.6 217°87		7°5/15.9 18		
5 11	18 5.89	-12 32.6	2.034	2.864	13.7	21.2	5 11	18 6.58	- 4 21.4	1.979	2.789	14.8	18.6
5 21	18 1.24	-12 9.6	1.954	2.863	10.8	21.0	5 21	18 1.82	- 3 35.6	1.899	2.784	12.3	18.5
5 31	17 54.55	-11 53.1	1.897	2.862	7.6	20.8	5 31	17 54.98	- 3 1.3	1.840	2.778	9.7	18.3
6 10	17 46.43	-11 44.4	1.864	2.861	4.8	20.6	6 10	17 46.65	- 2 42.0	1.804	2.772	7.8	18.2
6 20	17 37.69	-11 44.5	1.858	2.859	4.4	20.6	6 20	17 37.64	- 2 40.2	1.794	2.766	7.6	18.1
6 30	17 29.25	-11 53.8	1.879	2.858	6.8	20.8	6 30	17 28.90	- 2 56.4	1.810	2.760	9.3	18.2
7 10	17 21.98	-12 12.0	1.926	2.856	10.0	21.0	7 10	17 21.32	- 3 29.5	1.850	2.753	11.9	18.4
7 20	17 16.54	-12 37.8	1.995	2.854	13.1	21.1	7 20	17 15.59	- 4 16.6	1.911	2.745	14.6	18.5
49171	1998 SD ₆₀	6 16.6 203°74		0°3/16.6 18			338545	2003 ST ₃₄	6 16.6 239°69		2°9/16.2 18		
5 11	18 10.50	-23 34.8	1.965	2.799	13.9	20.1	5 11	18 6.76	-16 25.4	2.137	2.969	13.1	21.8
5 21	18 5.06	-23 45.8	1.879	2.795	10.8	19.9	5 21	18 1.92	-15 57.6	2.046	2.959	10.2	21.6
5 31	17 57.18	-23 56.5	1.815	2.791	7.0	19.6	5 31	17 55.03	-15 32.4	1.977	2.948	6.9	21.3
6 10	17 47.55	-24 5.4	1.777	2.786	2.9	19.4	6 10	17 46.67	-15 11.0	1.934	2.937	3.8	21.1
6 20	17 37.09	-24 11.2	1.766	2.781	1.5	19.3	6 20	17 37.63	-14 54.4	1.919	2.926	3.3	21.1
6 30	17 26.94	-24 13.8	1.783	2.775	5.8	19.5	6 30	17 28.81	-14 43.8	1.931	2.914	6.2	21.2
7 10	17 18.15	-24 14.1	1.826	2.768	9.8	19.8	7 10	17 21.13	-14 39.8	1.969	2.902	9.7	21.4
7 20	17 11.52	-24 13.7	1.893	2.761	13.3	20.0	7 20	17 15.24	-14 42.8	2.030	2.890	12.8	21.6
432718	2011 CF ₆₄	6 16.6 114°22		1°4/16.7 15			135607	2002 JQ ₂₁	6 16.6 7°34		0°1/16.6 17		
5 11	18 10.18	-26 48.2	1.769	2.610	15.0	22.6	5 11	18 7.99	-20 27.8	1.250	2.115	18.4	19.3
5 21	18 4.95	-26 58.3	1.698	2.617	11.5	22.3	5 21	18 4.27	-21 8.1	1.182	2.115	14.2	19.0
5 31	17 57.12	-27 5.2	1.648	2.624	7.6	22.1	5 31	17 57.24	-21 54.8	1.133	2.116	9.3	18.7
6 10	17 47.50	-27 6.7	1.623	2.631	3.4	21.9	6 10	17 47.73	-22 44.9	1.107	2.117	3.8	18.4
6 20	17 37.16	-27 1.8	1.624	2.638	2.1	21.8	6 20	17 37.05	-23 34.6	1.104	2.119	2.0	18.3
6 30	17 27.31	-26 50.9	1.653	2.645	6.1	22.1	6 30	17 26.83	-24 20.7	1.126	2.122	7.6	18.6
7 10	17 19.10	-26 35.9	1.706	2.651	10.1	22.3	7 10	17 18.60	-25 2.0	1.170	2.125	12.7	18.9
7 20	17 13.28	-26 19.6	1.782	2.657	13.6	22.6	7 20	17 13.40	-25 38.7	1.234	2.128	17.1	19.2
246935	1999 RB ₈	6 16.6 230°06		5°7/16.7 17			434726	2006 DX ₁₈₆	6 16.6 140°63		5°8/17.1 17		
5 11	18 13.97	-35 38.3	1.743	2.568	15.8	21.1	5 11	18 15.02	-40 7.4	2.363	3.158	13.1	22.0
5 21	18 8.51	-36 26.8	1.658	2.561	12.7	20.9	5 21	18 8.38	-40 53.5	2.292	3.170	10.7	21.9
5 31	17 59.85	-37 7.4	1.595	2.553	9.4	20.7	5 31	17 59.24	-41 29.3	2.244	3.182	8.3	21.7
6 10	17 48.75	-37 34.3	1.555	2.545	6.5	20.5	6 10	17 48.36	-41 50.3	2.221	3.193	6.3	21.6
6 20	17 36.45	-37 43.1	1.541	2.537	5.9	20.4	6 20	17 36.77	-41 53.9	2.225	3.204	5.9	21.6
6 30	17 24.51	-37 32.7	1.552	2.528	8.3	20.5	6 30	17 25.67	-41 40.0	2.257	3.214	7.3	21.7
7 10	17 14.40	-37 6.1	1.588	2.518	11.8	20.7	7 10	17 16.14	-41 11.4	2.314	3.223	9.6	21.9
7 20	17 7.18	-36 28.7	1.646	2.509	15.2	20.9	7 20	17 8.93	-40 32.6	2.395	3.232	11.9	22.1
48229	2001 KP ₆₃	6 16.6 307°24		2°4/16.8 18			357795	2005 TP ₅₆	6 16.6 210°68		3°8/17.0 18		
5 11	18 6.62	-14 49.6	1.769	2.609	15.0	18.7	5 11	18 8.60	-35 29.3	2.552	3.364	11.8	21.5
5 21	18 2.39	-15 18.0	1.676	2.594	11.7	18.4	5 21	18 3.26	-35 51.5	2.465	3.361	9.4	21.3
5 31	17 55.66	-15 55.9	1.605	2.579	7.9	18.1	5 31	17 55.85	-36 6.4	2.401	3.357	6.8	21.1
6 10	17 47.02	-16 42.9	1.558	2.564	4.0	17.9	6 10	17 46.98	-36 11.4	2.363	3.353	4.5	21.0
6 20	17 37.35	-17 37.0	1.538	2.549	2.8	17.8	6 20	17 37.48	-36 4.7	2.352	3.349	4.0	20.9
6 30	17 27.78	-18 36.0	1.544	2.535	6.6	18.0	6 30	17 28.28	-35 46.6	2.369	3.345	5.8	21.1
7 10	17 19.47	-19 37.5	1.576	2.521	10.8	18.2	7 10	17 20.28	-35 19.0	2.413	3.340	8.4	21.2
7 20	17 13.31	-20 39.4	1.630	2.507	14.6	18.4	7 20	17 14.15	-34 45.0	2.481	3.336	11.0	21.4
198790	2005 EH ₁₃₃	6 16.6 190°07		2°1/16.6 18			437194	2012 VJ ₁₁₁	6 16.6 247°82		0°3/16.6 16		
5 11	18 9.89	-28 26.9	2.430	3.252	12.0	20							

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
70582	1999 <i>TR</i> ₁₆₅		6 16.6	55°96'	0°3'/16.6	18	325080	2008 <i>DH</i> ₈		6 16.6	139°31'	3°6'/16.9	17
5 11	18 10.46	-25 49.0	1.331	2.189	18.0	18.6	5 11	18 13.01	-32 11.4	1.720	2.553	15.7	21.2
5 21	18 5.66	-25 25.1	1.273	2.202	13.8	18.3	5 21	18 7.37	-32 28.7	1.647	2.559	12.3	21.0
5 31	17 57.76	-24 56.4	1.234	2.215	8.9	18.1	5 31	17 58.82	-32 38.3	1.596	2.565	8.5	20.7
6 10	17 47.79	-24 22.6	1.219	2.229	3.6	17.8	6 10	17 48.26	-32 36.6	1.569	2.570	4.8	20.5
6 20	17 37.12	-23 44.5	1.228	2.243	1.9	17.7	6 20	17 36.89	-32 21.8	1.568	2.576	3.8	20.5
6 30	17 27.28	-23 4.8	1.262	2.257	7.1	18.1	6 30	17 26.10	-31 54.7	1.594	2.581	6.9	20.7
7 10	17 19.57	-22 27.5	1.320	2.272	11.8	18.4	7 10	17 17.16	-31 18.9	1.645	2.585	10.7	20.9
7 20	17 14.74	-21 55.5	1.398	2.286	15.9	18.7	7 20	17 10.90	-30 39.0	1.718	2.589	14.2	21.1
406445	2007 <i>TL</i> ₃₆₇		6 16.6	245°54'	2°6'/16.5	17	395883	2013 <i>AC</i> ₃₉		6 16.6	212°35'	2°6'/17.0	18
5 11	18 9.98	-16 49.6	1.652	2.493	15.8	21.4	5 11	18 8.14	-31 51.8	2.299	3.124	12.5	21.1
5 21	18 5.11	-16 47.4	1.562	2.481	12.4	21.2	5 21	18 2.97	-31 51.8	2.214	3.122	9.8	20.9
5 31	17 57.49	-16 50.5	1.493	2.468	8.3	20.9	5 31	17 55.68	-31 45.2	2.152	3.120	6.7	20.7
6 10	17 47.80	-16 59.2	1.449	2.455	4.1	20.6	6 10	17 46.93	-31 30.1	2.117	3.119	3.7	20.5
6 20	17 37.03	-17 13.3	1.430	2.441	3.1	20.5	6 20	17 37.58	-31 5.8	2.108	3.117	2.8	20.5
6 30	17 26.46	-17 32.3	1.438	2.427	7.2	20.7	6 30	17 28.61	-30 33.3	2.128	3.115	5.4	20.6
7 10	17 17.36	-17 55.8	1.470	2.413	11.6	21.0	7 10	17 20.93	-29 55.1	2.174	3.113	8.6	20.8
7 20	17 10.66	-18 23.5	1.525	2.398	15.6	21.2	7 20	17 15.19	-29 14.5	2.244	3.111	11.5	21.0
504406	2007 <i>WB</i> ₆₂		6 16.6	262°59'	3°0'/16.8	17	396847	2004 <i>RG</i> ₂₅₂		6 16.6	159°93'	12°7'/13.4	18
5 11	18 13.35	-30 12.1	1.728	2.563	15.5	22.2	5 11	18 12.80	- 2 45.4	1.319	2.141	20.1	20.6
5 21	18 8.07	-30 30.6	1.625	2.539	12.3	21.9	5 21	18 7.30	- 0 18.9	1.261	2.146	17.1	20.4
5 31	17 59.64	-30 43.9	1.543	2.515	8.5	21.6	5 31	17 58.82	+ 1 54.4	1.222	2.151	14.4	20.2
6 10	17 48.76	-30 48.3	1.486	2.490	4.5	21.3	6 10	17 48.28	+ 3 44.2	1.205	2.155	12.8	20.1
6 20	17 36.50	-30 40.7	1.454	2.464	3.4	21.2	6 20	17 36.91	+ 5 1.8	1.211	2.158	13.1	20.2
6 30	17 24.35	-30 20.7	1.449	2.438	7.3	21.4	6 30	17 26.17	+ 5 42.7	1.239	2.160	15.1	20.3
7 10	17 13.80	-29 51.0	1.469	2.411	11.7	21.6	7 10	17 17.33	+ 5 47.9	1.287	2.162	17.8	20.5
7 20	17 5.97	-29 16.1	1.511	2.383	15.8	21.7	7 20	17 11.25	+ 5 22.6	1.352	2.164	20.6	20.7
329244	1992 <i>UA</i>		6 16.6	29°82'	9°5'/16.3	18	230274	2001 <i>XC</i> ₅₈		6 16.6	209°67'	0°1'/16.6	17
5 11	18 11.23	-34 8.9	0.786	1.673	24.3	20.1	5 11	18 10.00	-23 1.9	2.316	3.142	12.4	21.8
5 21	18 8.85	-35 57.2	0.742	1.680	19.6	19.9	5 21	18 4.36	-23 13.3	2.223	3.135	9.5	21.6
5 31	18 1.24	-37 36.4	0.713	1.688	14.6	19.6	5 31	17 56.62	-23 24.7	2.153	3.128	6.2	21.4
6 10	17 49.59	-38 53.1	0.701	1.697	10.5	19.4	6 10	17 47.36	-23 35.0	2.110	3.119	2.5	21.2
6 20	17 36.14	-39 36.2	0.708	1.706	9.8	19.5	6 20	17 37.36	-23 42.9	2.095	3.110	1.3	21.1
6 30	17 23.83	-39 42.7	0.734	1.717	13.1	19.7	6 30	17 27.57	-23 48.4	2.109	3.100	5.1	21.3
7 10	17 15.16	-39 19.8	0.777	1.729	17.7	20.0	7 10	17 18.90	-23 51.9	2.151	3.089	8.7	21.5
7 20	17 11.40	-38 38.5	0.836	1.741	22.0	20.3	7 20	17 12.07	-23 54.7	2.217	3.078	11.8	21.7
52660	1998 <i>BJ</i> ₈		6 16.6	156°43'	2°7'/16.5	18	433239	2012 <i>VK</i> ₆₅		6 16.6	24°05'	4°6'/16.6	17
5 11	18 5.61	-14 7.3	2.622	3.441	11.3	19.8	5 11	18 8.66	-32 13.5	1.619	2.463	16.0	20.3
5 21	18 0.57	-14 1.7	2.542	3.447	8.8	19.6	5 21	18 4.32	-33 4.6	1.552	2.469	12.6	20.1
5 31	17 53.91	-14 0.9	2.487	3.453	6.0	19.4	5 31	17 57.03	-33 49.9	1.505	2.474	8.9	19.9
6 10	17 46.17	-14 5.1	2.458	3.458	3.4	19.3	6 10	17 47.61	-34 24.4	1.482	2.480	5.5	19.7
6 20	17 37.96	-14 14.5	2.458	3.463	2.9	19.3	6 20	17 37.25	-34 44.7	1.484	2.487	4.9	19.6
6 30	17 30.02	-14 29.0	2.486	3.467	5.2	19.4	6 30	17 27.39	-34 49.6	1.511	2.494	7.6	19.8
7 10	17 23.00	-14 48.2	2.542	3.472	7.9	19.6	7 10	17 19.34	-34 41.4	1.562	2.502	11.2	20.1
7 20	17 17.45	-15 11.6	2.622	3.475	10.5	19.8	7 20	17 13.99	-34 24.2	1.634	2.510	14.6	20.3
62720	2000 <i>TH</i> ₄₈		6 16.6	77°50'	5°9'/16.5	18	121200	1999 <i>NK</i> ₃₈		6 16.6	307°23'	14°2'/20.8	18
5 11	18 9.23	-11 4.6	1.382	2.227	18.1	19.5	5 11	18 28.88	-59 38.6	1.766	2.491	19.3	18.7
5 21	18 4.45	-10 31.5	1.325	2.241	14.4	19.3	5 21	18 21.65	-60 22.4	1.684	2.477	17.7	18.5
5 31	17 56.89	-10 9.1	1.287	2.254	10.3	19.1	5 31	18 9.04	-60 39.9	1.618	2.464	16.1	18.4
6 10	17 47.45	-10 0.2	1.272	2.267	6.8	18.9	6 10	17 52.56	-60 19.9	1.570	2.451	14.8	18.3
6 20	17 37.32	-10 6.0	1.282	2.281	6.2	18.9	6 20	17 34.77	-59 15.2	1.542	2.439	14.2	18.2
6 30	17 27.82	-10 26.3	1.315	2.294	9.0	19.1	6 30	17 18.64	-57 25.9	1.536	2.426	14.6	18.2
7 10	17 20.15	-10 59.3	1.372	2.308	12.8	19.4	7 10	17 6.47	-55 1.0	1.552	2.414	16.0	18.2
7 20	17 15.06	-11 42.2	1.449	2.321	16.4	19.6	7 20	16 59.23	-52 13.9	1.589	2.402	17.9	18.3
299773	2006 <i>SD</i> ₃₉		6 16.6	287°34'	5°9'/16.7	18	249782	2000 <i>WU</i> ₁₂₆		6 16.6	245°44'	0°4'/16.6	17
5 11	18 10.08	-37 53.8	2.057	2.875	14.0	20.5	5 11	18 11.60	-23 24.7	1.769	2.607	15.1	21.0
5 21	18 5.15	-38 43.5	1.971	2.866	11.4	20.3	5 21	18 6.38	-23 40.1	1.673	2.592	11.7	20.7
5 31	17 57.48	-39 24.8	1.906	2.857	8.7	20.1	5 31	17 58.37	-23 56.2	1.599	2.576	7.7	20.4
6 10	17 47.78	-39 52.7	1.866	2.847	6.5	19.9	6 10	17 48.21	-24 10.8	1.550	2.559	3.2	20.1
6 20	17 37.08	-40 3.7	1.851	2.838	6.0	19.9	6 20	17 36.90	-24 22.3	1.527	2.541	1.7	20.0
6 30	17 26.66	-39 56.7	1.863	2.829	7.9	20.0	6 30	17 25.75	-24 29.9	1.531	2.523	6.5	20.2
7 10	17 17.77	-39 34.0	1.899	2.820	10.6	20.1	7 10	17 16.04	-24 34.4	1.561	2.505	11.0	20.4
7 20	17 11.30	-39 0.1	1.957	2.812	13.5	20.3	7 20	17 8.76	-24 37.6	1.613	2.485	15.0	20.6
418112	2007 <i>YU</i> ₄		6 16.6	211°87'	0°4'/16.6	17	315011	2007 <i>BO</i> ₃₀		6 16.6	204°25'	4°7'/16.4	18
5 11	18 12.06	-25 12.9	1.867	2.701	14.6	21.1	5 11	18 4.00	- 5 42.2	3.038	3.833	10.5	21.3
5 21	18 6.39	-25 3.7	1.778	2.695	11.3	20.9	5 21	17 59.17	- 5 27.9	2.949	3.828	8.6	21.2
5 31	17 58.13	-24 51.3	1.712	2.688	7.4	20.6	5 31	17 52.97	- 5 21.7	2.883	3.822	6.6	21.0
6 10	17 47.99	-24 34.7	1.671	2.680	3.0	20.4	6 10	17 45.81	- 5 24.9	2.843	3.816	5.0	20.9
6 20	17 36.99	-24 13.3	1.657	2.672	1.6	20.2	6 20	17 38.22	- 5 38.0	2.831	3.810	4.8	20.9
6 30	17 26.36	-23 48.3	1.671	2.663	6.1	20.5	6 30	17 30.78	- 6 1.3	2.848	3.803	6.1	20.9
7 10	17 17.22	-23 22.2	1.711	2.653	10.3	20.7	7 10	17 24.08	- 6 33.6	2.892	3.795	8.1	21.1
7 20	17 10.42	-22 57.6	1.774	2.643	14.0	21.0	7 20	17 18.57	- 7 13.6	2.960	3.788	10.1	21.2
440323	2004 <i>TR</i> ₆₅		6 16.6	255°87'	1°4'/16.7	18							

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
178772	2000 <i>WB</i> ₁₈₉		6 16.6 53°79	1.4/16.4	18		455702	2005 <i>EL</i> ₂₁₁		6 16.6 45°65	16°5/20.7	17	
5 11	18 5.40	-20 58.6	2.219	3.055	12.5	19.7	5 11	18 7.66	+13 29.2	1.324	2.090	22.8	20.3
5 21	18 0.75	-20 30.1	2.139	3.057	9.6	19.5	5 21	18 3.29	+14 24.4	1.281	2.103	20.7	20.2
5 31	17 54.19	-20 1.1	2.083	3.058	6.3	19.3	5 31	17 56.16	+14 44.9	1.253	2.118	18.7	20.1
6 10	17 46.34	-19 32.3	2.052	3.060	2.8	19.1	6 10	17 47.21	+14 23.8	1.241	2.133	17.2	20.0
6 20	17 37.97	-19 4.5	2.049	3.062	2.0	19.0	6 20	17 37.61	+13 18.7	1.248	2.149	16.5	20.0
6 30	17 29.95	-18 39.3	2.074	3.064	5.3	19.3	6 30	17 28.69	+11 32.8	1.274	2.165	17.0	20.1
7 10	17 23.09	-18 17.9	2.125	3.066	8.7	19.5	7 10	17 21.60	+ 9 14.4	1.320	2.181	18.3	20.2
7 20	17 17.97	-18 1.5	2.200	3.067	11.7	19.7	7 20	17 17.06	+ 6 34.6	1.384	2.198	20.1	20.4
508153	2015 <i>FN</i> ₁₅₈		6 16.6 136°92	1°3/16.6	17		31664	Randiivessen		6 16.6 10°17	4°6/15.5	18	
5 11	18 7.49	-19 4.5	1.860	2.701	14.3	21.7	5 11	18 7.25	-16 27.9	1.599	2.447	15.9	17.5
5 21	18 2.78	-19 12.5	1.783	2.702	11.1	21.5	5 21	18 2.76	-15 11.9	1.527	2.447	12.5	17.3
5 31	17 55.74	-19 23.9	1.727	2.703	7.2	21.3	5 31	17 55.76	-13 56.9	1.476	2.448	8.7	17.1
6 10	17 47.03	-19 38.2	1.696	2.704	3.2	21.0	6 10	17 47.06	-12 46.6	1.449	2.449	5.3	16.9
6 20	17 37.59	-19 54.4	1.691	2.705	2.0	20.9	6 20	17 37.67	-11 45.1	1.448	2.451	5.1	16.9
6 30	17 28.47	-20 12.0	1.714	2.705	6.0	21.2	6 30	17 28.78	-10 56.2	1.473	2.452	8.3	17.1
7 10	17 20.71	-20 31.0	1.762	2.706	9.9	21.4	7 10	17 21.47	-10 21.9	1.521	2.454	12.0	17.3
7 20	17 15.05	-20 51.3	1.833	2.707	13.4	21.7	7 20	17 16.45	-10 2.7	1.591	2.456	15.5	17.5
312558	2009 <i>GC</i>		6 16.6 122°94	0°5/16.6	16		255216	2005 <i>UQ</i> ₃₅₇		6 16.6 268°51	2°7/16.7	18	
5 11	18 11.90	-23 4.7	1.536	2.382	16.6	20.9	5 11	18 6.27	-13 11.5	2.585	3.402	11.5	20.8
5 21	18 6.65	-23 29.8	1.467	2.390	12.7	20.7	5 21	18 1.38	-13 22.2	2.475	3.379	9.1	20.6
5 31	17 58.47	-23 56.1	1.419	2.397	8.3	20.4	5 31	17 54.68	-13 39.4	2.390	3.355	6.3	20.4
6 10	17 48.19	-24 21.0	1.394	2.404	3.4	20.2	6 10	17 46.63	-14 3.4	2.331	3.331	3.6	20.2
6 20	17 37.00	-24 42.3	1.396	2.411	1.8	20.1	6 20	17 37.84	-14 33.6	2.300	3.306	3.0	20.1
6 30	17 26.32	-24 58.8	1.424	2.417	6.7	20.4	6 30	17 29.09	-15 9.6	2.298	3.281	5.4	20.2
7 10	17 17.46	-25 11.3	1.476	2.423	11.2	20.7	7 10	17 21.13	-15 50.1	2.324	3.255	8.5	20.4
7 20	17 11.28	-25 21.4	1.550	2.429	15.1	20.9	7 20	17 14.63	-16 34.2	2.375	3.230	11.4	20.5
501762	2014 <i>UC</i> ₁₇₂		6 16.6 261°37	5°4/16.2	17		387239	2012 <i>UE</i> ₄₈		6 16.6 359°92	1°1/16.6	17	
5 11	18 8.78	-12 2.1	1.547	2.388	16.8	21.9	5 11	18 7.74	-25 7.8	1.900	2.741	14.1	21.0
5 21	18 4.32	-11 29.5	1.458	2.372	13.4	21.7	5 21	18 3.08	-25 31.0	1.821	2.741	10.8	20.8
5 31	17 57.07	-11 4.7	1.390	2.357	9.7	21.4	5 31	17 55.99	-25 53.5	1.764	2.741	7.1	20.5
6 10	17 47.70	-10 50.5	1.344	2.341	6.3	21.2	6 10	17 47.19	-26 13.2	1.732	2.741	3.1	20.3
6 20	17 37.22	-10 48.7	1.324	2.325	5.8	21.1	6 20	17 37.59	-26 28.2	1.727	2.741	1.8	20.2
6 30	17 26.93	-11 0.6	1.328	2.308	8.9	21.2	6 30	17 28.33	-26 38.1	1.749	2.741	5.8	20.5
7 10	17 18.12	-11 25.5	1.356	2.291	13.0	21.4	7 10	17 20.46	-26 43.5	1.796	2.741	9.7	20.7
7 20	17 11.75	-12 1.8	1.405	2.274	17.0	21.6	7 20	17 14.75	-26 46.1	1.866	2.741	13.1	20.9
62942	2000 <i>VC</i> ₂₅		6 16.6 307°87	0°7/16.5	18		328203	2008 <i>EQ</i> ₅₄		6 16.6 42°10	3°7/16.6	17	
5 11	18 6.44	-21 59.9	1.624	2.476	15.5	18.7	5 11	18 10.45	-29 28.0	1.454	2.304	17.1	20.4
5 21	18 2.48	-21 55.3	1.538	2.464	12.0	18.4	5 21	18 5.92	-30 15.2	1.388	2.310	13.4	20.2
5 31	17 55.82	-21 51.2	1.472	2.452	7.9	18.1	5 31	17 58.20	-30 58.6	1.342	2.316	9.1	20.0
6 10	17 47.16	-21 46.8	1.430	2.440	3.3	17.8	6 10	17 48.16	-31 33.5	1.319	2.323	5.0	19.8
6 20	17 37.52	-21 41.9	1.414	2.428	1.8	17.7	6 20	17 37.10	-31 55.8	1.321	2.329	4.1	19.7
6 30	17 28.16	-21 37.0	1.423	2.417	6.6	18.0	6 30	17 26.59	-32 4.4	1.348	2.337	7.7	19.9
7 10	17 20.30	-21 33.3	1.456	2.406	11.1	18.2	7 10	17 18.06	-32 1.5	1.398	2.344	11.8	20.2
7 20	17 14.85	-21 32.0	1.511	2.395	15.1	18.4	7 20	17 12.47	-31 50.9	1.470	2.351	15.6	20.4
396175	2013 <i>GL</i> ₁₄		6 16.6 246°03	5°7/16.5	18		253755	2003 <i>WF</i> ₀₉		6 16.6 207°14	1°6/16.7	17	
5 11	18 3.86	- 4 19.0	2.622	3.421	11.9	21.1	5 11	18 12.18	-27 16.0	1.868	2.701	14.6	21.7
5 21	17 59.33	- 4 1.9	2.531	3.410	9.8	20.9	5 21	18 6.59	-27 26.8	1.782	2.697	11.3	21.5
5 31	17 53.21	- 3 54.8	2.463	3.400	7.7	20.8	5 31	17 58.34	-27 34.2	1.717	2.691	7.5	21.3
6 10	17 45.96	- 3 59.7	2.420	3.389	6.0	20.6	6 10	17 48.17	-27 35.9	1.678	2.686	3.4	21.0
6 20	17 38.18	- 4 17.3	2.404	3.378	5.8	20.6	6 20	17 37.09	-27 30.4	1.666	2.679	2.2	20.9
6 30	17 30.55	- 4 47.8	2.415	3.367	7.1	20.7	6 30	17 26.36	-27 17.8	1.682	2.672	6.2	21.1
7 10	17 23.75	- 5 29.8	2.452	3.356	9.3	20.8	7 10	17 17.16	-27 0.2	1.723	2.665	10.2	21.4
7 20	17 18.31	- 6 21.2	2.513	3.345	11.6	20.9	7 20	17 10.33	-26 40.6	1.787	2.657	13.8	21.6
160417	2004 <i>YL</i> ₂₂		6 16.6 286°25	4°7/16.7	18		334709	2003 <i>FS</i> ₁₀₀		6 16.6 14°97	2°8/16.5	17	
5 11	18 6.35	-10 20.7	1.864	2.694	14.8	20.1	5 11	18 7.51	-25 34.9	1.054	1.931	20.2	20.0
5 21	18 2.03	-10 17.0	1.769	2.676	11.8	19.9	5 21	18 4.53	-26 28.3	0.995	1.934	15.6	19.8
5 31	17 55.38	-10 23.5	1.695	2.658	8.6	19.7	5 31	17 57.74	-27 22.8	0.954	1.938	10.4	19.5
6 10	17 46.97	-10 41.9	1.645	2.640	5.6	19.4	6 10	17 48.10	-28 13.0	0.934	1.943	4.9	19.2
6 20	17 37.62	-11 12.3	1.621	2.622	5.0	19.4	6 20	17 37.16	-28 53.5	0.936	1.948	3.5	19.1
6 30	17 28.37	-11 54.2	1.624	2.604	7.6	19.5	6 30	17 26.87	-29 21.6	0.960	1.955	8.6	19.5
7 10	17 20.29	-12 45.7	1.652	2.585	11.2	19.6	7 10	17 19.01	-29 38.3	1.005	1.963	13.9	19.8
7 20	17 14.19	-13 44.5	1.702	2.567	14.6	19.8	7 20	17 14.68	-29 46.7	1.068	1.971	18.4	20.1
344811	2004 <i>BA</i> ₁₃₇		6 16.6 166°91	0°3/16.6	18		314160	2005 <i>FM</i> ₅		6 16.6 86°72	6°2/17.4	17	
5 11	18 6.83	-22 4.0	2.063	2.901	13.2	21.7	5 11	18 15.83	-37 3.5	1.512	2.342	17.6	21.2
5 21	18 2.09	-22 10.5	1.983	2.901	10.2	21.5	5 21	18 9.98	-37 40.1	1.453	2.357	14.1	21.0
5 31	17 55.21	-22 17.7	1.925	2.902	6.6	21.2	5 31	18 0.72	-38 4.5	1.415	2.373	10.4	20.8
6 10	17 46.81	-22 24.7	1.893	2.902	2.7	21.0	6 10	17 49.13	-38 10.8	1.399	2.388	7.1	20.6
6 20	17 37.75	-22 30.7	1.888	2.902	1.4	20.9	6 20	17 36.70	-37 56.2	1.407	2.403	6.3	20.6
6 30	17 29.00	-22 35.7	1.910	2.903	5.4	21.2	6 30	17 25.16	-37 21.7	1.441	2.418	8.6	20.8
7 10	17 21.50	-22 40.2	1.959	2.903	9.1	21.4	7 10	17 15.95	-36 32.9	1.499	2.433	12.0	21.0
7 20	17 15.93	-22 45.2	2.031	2.903	12.3	21.6	7 20	17 9.94	-35 36.6	1.578	2.448	15.4	21.3
191746	2004 <i>SQ</i> ₂₂		6 16.6 283°87	3°7/15.8	18		309129	2006 <i>XM</</i>					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
28916	Logancollins		6 16.6 311°93	4°5/16.7 18			34143	Heeric		6 16.6 320°39	1°3/16.6 18		
5 11	18 6.13	-13 38.9	1.259	2.121	18.6	18.5	5 11	18 6.39	-20 19.3	1.535	2.390	16.1	18.9
5 21	18 2.91	-13 31.2	1.178	2.106	14.8	18.2	5 21	18 2.55	-20 15.9	1.453	2.381	12.5	18.6
5 31	17 56.50	-13 34.1	1.115	2.091	10.3	17.9	5 31	17 55.95	-20 14.8	1.392	2.372	8.2	18.4
6 10	17 47.61	-13 49.5	1.073	2.076	5.9	17.6	6 10	17 47.30	-20 15.8	1.355	2.364	3.6	18.1
6 20	17 37.38	-14 17.5	1.054	2.062	4.9	17.5	6 20	17 37.65	-20 18.4	1.342	2.356	2.2	18.0
6 30	17 27.36	-14 57.4	1.058	2.049	9.0	17.7	6 30	17 28.33	-20 22.8	1.355	2.348	6.9	18.2
7 10	17 19.07	-15 47.1	1.085	2.036	13.9	17.9	7 10	17 20.58	-20 29.6	1.391	2.341	11.5	18.5
7 20	17 13.65	-16 43.7	1.130	2.024	18.4	18.1	7 20	17 15.32	-20 39.5	1.448	2.335	15.5	18.7
255780	2006 RM ₈₈		6 16.6 111°79	3°1/16.3 17			239569	2008 TU ₃₉		6 16.6 136°90	2°5/16.8 17		
5 11	18 9.98	-17 9.8	1.686	2.527	15.6	20.9	5 11	18 9.80	-29 11.8	1.992	2.824	13.8	21.4
5 21	18 4.68	-16 38.9	1.621	2.539	12.1	20.7	5 21	18 4.59	-29 36.4	1.915	2.829	10.8	21.2
5 31	17 56.93	-16 11.3	1.577	2.551	8.1	20.5	5 31	17 56.95	-29 56.9	1.861	2.833	7.2	21.0
6 10	17 47.53	-15 48.2	1.558	2.562	4.3	20.3	6 10	17 47.61	-30 10.7	1.833	2.837	3.7	20.8
6 20	17 37.52	-15 30.8	1.564	2.573	3.5	20.3	6 20	17 37.53	-30 15.8	1.831	2.841	2.8	20.8
6 30	17 28.06	-15 20.2	1.598	2.584	7.0	20.5	6 30	17 27.84	-30 12.2	1.856	2.844	5.9	21.0
7 10	17 20.19	-15 17.3	1.656	2.594	10.8	20.7	7 10	17 19.61	-30 1.5	1.907	2.848	9.5	21.2
7 20	17 14.60	-15 21.9	1.736	2.605	14.3	21.0	7 20	17 13.58	-29 46.4	1.982	2.851	12.7	21.4
342821	2008 XQ ₂₀		6 16.6 121°86	0°0/16.6 17			519062	2010 KE ₁₀₈		6 16.6 358°05	9°1/16.7 16		
5 11	18 9.26	-20 50.1	2.144	2.975	13.1	21.0	5 11	18 2.19	-1 11.9	1.724	2.541	16.3	20.7
5 21	18 3.88	-21 29.4	2.068	2.983	10.0	20.8	5 21	17 58.77	-0 31.2	1.654	2.538	13.8	20.5
5 31	17 56.36	-22 11.8	2.015	2.990	6.5	20.6	5 31	17 53.19	-0 6.9	1.604	2.537	11.3	20.3
6 10	17 47.33	-22 55.1	1.989	2.998	2.6	20.4	6 10	17 46.08	-0 3.2	1.575	2.535	9.5	20.2
6 20	17 37.60	-23 37.2	1.991	3.005	1.4	20.3	6 20	17 38.31	-0 22.3	1.570	2.535	9.2	20.2
6 30	17 28.17	-24 16.3	2.021	3.012	5.2	20.6	6 30	17 30.85	-1 3.9	1.588	2.535	10.6	20.3
7 10	17 19.96	-24 51.7	2.078	3.019	8.8	20.8	7 10	17 24.64	-2 5.2	1.629	2.536	13.0	20.4
7 20	17 13.67	-25 23.8	2.160	3.026	11.9	21.0	7 20	17 20.39	-3 21.6	1.691	2.538	15.6	20.6
106447	2000 VA ₅₆		6 16.6 274°42	0°4/16.7 18			292664	2006 UL ₆₅		6 16.6 307°86	0°6/16.7 18		
5 11	18 6.21	-25 32.3	2.302	3.135	12.2	19.9	5 11	18 6.36	-24 59.3	1.954	2.796	13.7	20.9
5 21	18 1.54	-25 21.0	2.206	3.122	9.4	19.7	5 21	18 1.99	-25 2.5	1.868	2.789	10.6	20.7
5 31	17 54.85	-25 6.8	2.134	3.109	6.1	19.5	5 31	17 55.31	-25 4.0	1.804	2.781	6.9	20.4
6 10	17 46.72	-24 48.9	2.087	3.096	2.6	19.2	6 10	17 46.97	-25 2.6	1.765	2.774	2.9	20.1
6 20	17 37.92	-24 27.4	2.068	3.082	1.3	19.1	6 20	17 37.85	-24 57.5	1.753	2.767	1.5	20.0
6 30	17 29.35	-24 3.1	2.077	3.069	5.1	19.3	6 30	17 29.02	-24 49.1	1.768	2.761	5.6	20.3
7 10	17 21.90	-23 37.8	2.112	3.055	8.6	19.5	7 10	17 21.51	-24 38.6	1.808	2.754	9.6	20.5
7 20	17 16.23	-23 13.5	2.172	3.042	11.7	19.7	7 20	17 16.06	-24 28.0	1.871	2.748	13.0	20.7
33559	Laurelcooper		6 16.6 197°59	1°9/16.6 18			396119	2013 CH ₁₇₈		6 16.6 155°60	6°7/16.1 18		
5 11	18 13.13	-26 30.5	1.727	2.564	15.4	18.7	5 11	18 3.47	-1 55.3	2.595	3.386	12.2	21.4
5 21	18 7.57	-27 1.5	1.645	2.562	12.0	18.4	5 21	17 58.97	-1 15.1	2.521	3.390	10.2	21.2
5 31	17 59.13	-27 31.2	1.584	2.559	8.0	18.2	5 31	17 52.94	-0 45.5	2.470	3.393	8.3	21.1
6 10	17 48.56	-27 56.2	1.549	2.556	3.7	17.9	6 10	17 45.90	-0 29.3	2.443	3.396	6.9	21.0
6 20	17 36.95	-28 13.6	1.539	2.552	2.5	17.8	6 20	17 38.42	-0 27.8	2.442	3.399	6.8	21.0
6 30	17 25.69	-28 22.6	1.557	2.547	6.6	18.1	6 30	17 31.19	-0 41.5	2.467	3.402	7.9	21.1
7 10	17 16.07	-28 24.3	1.600	2.543	10.9	18.3	7 10	17 24.84	-1 9.2	2.518	3.404	9.8	21.2
7 20	17 9.02	-28 21.3	1.666	2.537	14.6	18.5	7 20	17 19.86	-1 49.0	2.591	3.406	11.7	21.3
506914	2008 DN ₈₁		6 16.6 132°41	6°5/16.0 18			282307	2002 TX ₁₂		6 16.6 272°81	0°4/16.6 18		
5 11	18 4.05	-2 6.2	2.649	3.439	12.0	21.9	5 11	18 7.30	-21 40.5	2.119	2.954	13.0	21.1
5 21	17 59.32	-1 24.5	2.581	3.449	10.0	21.8	5 21	18 2.64	-21 46.6	2.017	2.934	10.1	20.9
5 31	17 53.11	-0 53.3	2.535	3.459	8.1	21.7	5 31	17 55.75	-21 53.9	1.938	2.914	6.6	20.7
6 10	17 45.92	-0 35.0	2.515	3.468	6.8	21.6	6 10	17 47.18	-22 1.4	1.885	2.894	2.7	20.4
6 20	17 38.36	-0 31.1	2.520	3.477	6.6	21.6	6 20	17 37.73	-22 8.4	1.858	2.873	1.5	20.2
6 30	17 31.08	-0 41.8	2.552	3.486	7.7	21.7	6 30	17 28.39	-22 14.6	1.860	2.852	5.5	20.5
7 10	17 24.69	-1 6.2	2.610	3.494	9.5	21.8	7 10	17 20.15	-22 20.6	1.888	2.831	9.4	20.7
7 20	17 19.65	-1 42.2	2.690	3.502	11.4	22.0	7 20	17 13.81	-22 27.1	1.939	2.809	12.9	20.8
182921	2002 ED ₁₄₀		6 16.6 231°09	4°1/16.9 18			385568	2004 TW ₂₈₉		6 16.6 263°48	7°5/16.9 17		
5 11	18 8.73	-35 38.2	2.501	3.314	11.9	20.4	5 11	18 14.19	-41 37.0	1.969	2.774	15.0	21.2
5 21	18 3.52	-36 8.1	2.412	3.308	9.6	20.2	5 21	18 8.75	-42 30.2	1.877	2.758	12.6	21.0
5 31	17 56.15	-36 31.1	2.347	3.302	7.0	20.1	5 31	18 0.13	-43 12.4	1.806	2.742	10.0	20.8
6 10	17 47.26	-36 44.0	2.307	3.297	4.7	19.9	6 10	17 49.07	-43 37.1	1.758	2.726	8.0	20.7
6 20	17 37.67	-36 44.9	2.295	3.290	4.2	19.9	6 20	17 36.76	-43 39.9	1.735	2.710	7.6	20.6
6 30	17 28.34	-36 33.5	2.310	3.284	6.0	20.0	6 30	17 24.71	-43 19.3	1.737	2.693	9.2	20.7
7 10	17 20.22	-36 11.6	2.352	3.278	8.7	20.1	7 10	17 14.43	-42 38.4	1.764	2.676	11.9	20.8
7 20	17 13.99	-35 42.4	2.417	3.271	11.2	20.3	7 20	17 6.98	-41 43.4	1.813	2.659	14.7	20.9
181740	1995 VX ₈		6 16.6 244°06	0°3/16.6 18			426343	2013 GT ₉₁		6 16.6 8°26	3°4/16.0 17		
5 11	18 5.82	-22 41.5	2.395	3.227	11.8	21.2	5 11	18 3.09	-21 22.7	0.955	1.845	20.7	19.7
5 21	18 1.11	-22 38.8	2.304	3.220	9.1	21.0	5 21	18 1.00	-20 14.0	0.900	1.846	16.0	19.4
5 31	17 54.51	-22 35.6	2.237	3.212	5.9	20.7	5 31	17 55.29	-19 2.2	0.861	1.848	10.6	19.1
6 10	17 46.58	-22 31.5	2.195	3.204	2.4	20.5	6 10	17 47.07	-17 51.3	0.843	1.852	5.1	18.8
6 20	17 38.03	-22 26.2	2.182	3.196	1.3	20.4	6 20	17 37.86	-16 46.6	0.845	1.857	4.2	18.8
6 30	17 29.70	-22 20.1	2.197	3.188	4.9	20.6	6 30	17 29.47	-15 53.4	0.869	1.864	9.4	19.1
7 10	17 22.42	-22 13.9	2.238	3.180	8.2	20.8	7 10	17 23.43	-15 15.8	0.912	1.872	14.7	19.4
7 20	17 16.80	-22 8.9	2.304	3.172	11.2	21.0	7 20	17 20.62	-14 54.5	0.973	1.882	19.3	19.7
438971	2010 MJ ₉₇		6 16.6 266°66	5°4/15.6 18			137061	1998 VR ₅₀		6 16.6 221°39	0°2/16.6 18		
5 11	18 3.56	-8 21.1	2.428	3.243</									

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
299521	2006 <i>DL</i> ₁		6 16.6 129°62	4.3/16.9	17		390076	2012 <i>UH</i> ₁₂₆		6 16.6 256°35	0°6/16.5	18	
5 11	18 15.70	-32 25.4	1.551	2.386	17.0	20.7	5 11	18 7.02	-22 47.4	2.024	2.863	13.4	21.0
5 21	18 9.80	-32 59.8	1.484	2.396	13.4	20.5	5 21	18 2.31	-22 29.4	1.941	2.860	10.3	20.8
5 31	18 0.64	-33 26.7	1.438	2.406	9.3	20.3	5 31	17 55.42	-22 9.9	1.880	2.857	6.7	20.6
6 10	17 49.18	-33 41.2	1.416	2.415	5.5	20.1	6 10	17 47.00	-21 49.0	1.845	2.854	2.8	20.3
6 20	17 36.78	-33 40.0	1.419	2.424	4.6	20.1	6 20	17 37.93	-21 27.1	1.836	2.851	1.6	20.2
6 30	17 25.06	-33 23.3	1.448	2.432	7.7	20.3	6 30	17 29.21	-21 5.4	1.855	2.847	5.6	20.5
7 10	17 15.45	-32 55.0	1.501	2.440	11.6	20.5	7 10	17 21.76	-20 45.5	1.901	2.844	9.3	20.7
7 20	17 8.86	-32 20.4	1.576	2.448	15.3	20.8	7 20	17 16.28	-20 29.0	1.969	2.841	12.7	20.9
352068	2006 <i>WL</i> ₉₄		6 16.6 274°31	1°0/16.6	18		432871	2011 <i>JA</i> ₁₉		6 16.6 252°36	3°0/16.9	18	
5 11	18 5.60	-20 27.7	2.187	3.023	12.6	21.2	5 11	18 8.46	-13 17.4	1.939	2.768	14.3	20.8
5 21	18 1.12	-20 26.8	2.098	3.016	9.7	21.0	5 21	18 3.57	-13 36.5	1.850	2.760	11.2	20.5
5 31	17 54.61	-20 27.4	2.032	3.008	6.4	20.8	5 31	17 56.38	-14 4.6	1.782	2.751	7.7	20.3
6 10	17 46.67	-20 29.1	1.992	3.000	2.7	20.6	6 10	17 47.47	-14 41.7	1.740	2.742	4.3	20.1
6 20	17 38.04	-20 31.5	1.979	2.993	1.7	20.5	6 20	17 37.68	-15 26.6	1.724	2.732	3.3	20.0
6 30	17 29.65	-20 34.9	1.994	2.985	5.3	20.7	6 30	17 28.05	-16 17.4	1.736	2.723	6.4	20.2
7 10	17 22.36	-20 39.5	2.035	2.977	8.9	20.9	7 10	17 19.61	-17 12.3	1.775	2.713	10.2	20.4
7 20	17 16.85	-20 46.1	2.099	2.970	12.1	21.1	7 20	17 13.17	-18 9.4	1.836	2.704	13.6	20.6
344708	2003 <i>TC</i> ₄₈		6 16.6 2°99	0°3/16.7	16		479931	2014 <i>HL</i> ₁₂₈		6 16.6 302°78	6°0/16.2	18	
5 11	18 6.30	-25 11.9	1.528	2.385	16.1	20.8	5 11	18 9.67	-36 33.1	2.046	2.868	13.9	20.8
5 21	18 2.42	-24 56.7	1.456	2.384	12.4	20.5	5 21	18 5.08	-37 41.9	1.952	2.849	11.4	20.6
5 31	17 55.77	-24 38.0	1.403	2.384	8.1	20.3	5 31	17 57.69	-38 45.2	1.879	2.831	8.7	20.4
6 10	17 47.19	-24 15.3	1.375	2.384	3.3	20.0	6 10	17 48.12	-39 37.4	1.830	2.813	6.5	20.3
6 20	17 37.79	-23 48.8	1.371	2.385	1.7	19.9	6 20	17 37.31	-40 13.8	1.808	2.795	6.2	20.2
6 30	17 28.91	-23 20.3	1.392	2.387	6.5	20.2	6 30	17 26.56	-40 31.9	1.812	2.777	8.1	20.3
7 10	17 21.73	-22 52.5	1.437	2.390	11.0	20.5	7 10	17 17.20	-40 32.8	1.840	2.759	11.0	20.4
7 20	17 17.06	-22 27.9	1.504	2.392	14.9	20.7	7 20	17 10.24	-40 19.9	1.890	2.742	14.0	20.6
184392	2005 <i>ME</i> ₂		6 16.6 1°53	1°6/16.5	17		32783	1988 <i>RK</i> ₁₃		6 16.6 304°80	7°1/17.1	18	
5 11	18 3.78	-21 10.4	1.125	2.004	19.1	19.8	5 11	18 6.32	-5 48.0	1.596	2.425	16.9	17.9
5 21	18 1.24	-20 53.3	1.061	2.001	14.8	19.6	5 21	18 2.37	-5 38.5	1.509	2.410	13.9	17.7
5 31	17 55.39	-20 37.2	1.015	2.000	9.7	19.3	5 31	17 55.83	-5 44.8	1.442	2.396	10.6	17.5
6 10	17 47.13	-20 22.7	0.990	2.000	4.2	19.0	6 10	17 47.32	-6 9.7	1.397	2.381	7.9	17.3
6 20	17 37.82	-20 10.3	0.987	2.002	2.6	18.9	6 20	17 37.77	-6 54.4	1.376	2.367	7.2	17.2
6 30	17 29.09	-20 1.3	1.007	2.004	8.0	19.2	6 30	17 28.37	-7 57.6	1.381	2.353	9.5	17.3
7 10	17 22.44	-19 57.2	1.048	2.008	13.3	19.5	7 10	17 20.32	-9 15.9	1.409	2.339	12.9	17.4
7 20	17 18.82	-19 59.0	1.108	2.013	17.8	19.8	7 20	17 14.52	-10 44.5	1.458	2.326	16.5	17.6
127081	2002 <i>GK</i> ₆₇		6 16.6 325°50	3°3/16.4	18		162564	2000 <i>RO</i> ₃₁		6 16.6 317°98	2°7/16.3	18	
5 11	18 3.98	-16 38.6	1.507	2.364	16.3	19.1	5 11	18 4.02	-20 40.7	1.138	2.015	19.0	18.7
5 21	18 0.75	-16 17.7	1.421	2.349	12.8	18.9	5 21	18 1.81	-20 3.0	1.050	1.990	14.9	18.3
5 31	17 54.82	-16 1.4	1.356	2.334	8.7	18.6	5 31	17 56.11	-19 23.4	0.980	1.964	10.0	18.0
6 10	17 46.88	-15 51.1	1.314	2.319	4.6	18.3	6 10	17 47.63	-18 43.5	0.930	1.939	4.7	17.6
6 20	17 37.91	-15 47.9	1.295	2.305	3.8	18.2	6 20	17 37.57	-18 5.6	0.903	1.915	3.6	17.4
6 30	17 29.19	-15 52.5	1.302	2.292	7.6	18.4	6 30	17 27.66	-17 33.2	0.897	1.892	9.1	17.7
7 10	17 21.95	-16 5.3	1.331	2.280	12.1	18.6	7 10	17 19.65	-17 9.6	0.912	1.871	14.9	17.9
7 20	17 17.10	-16 25.6	1.381	2.268	16.1	18.9	7 20	17 14.81	-16 57.2	0.944	1.850	20.1	18.1
312989	1999 <i>TV</i> ₇₂		6 16.6 254°57	0°8/16.7	18		439640	2014 <i>GH</i> ₂₀		6 16.6 36°04	1°8/16.8	16	
5 11	18 5.99	-24 54.5	2.556	3.384	11.3	21.6	5 11	18 6.88	-28 28.9	1.923	2.763	14.0	21.0
5 21	18 1.24	-25 12.1	2.460	3.373	8.7	21.4	5 21	18 2.34	-28 34.3	1.852	2.771	10.8	20.8
5 31	17 54.62	-25 29.1	2.387	3.361	5.7	21.2	5 31	17 55.48	-28 35.2	1.804	2.779	7.1	20.6
6 10	17 46.67	-25 44.0	2.341	3.350	2.4	20.9	6 10	17 47.04	-28 29.8	1.780	2.787	3.4	20.4
6 20	17 38.05	-25 55.7	2.324	3.338	1.4	20.8	6 20	17 37.98	-28 17.5	1.783	2.795	2.2	20.3
6 30	17 29.58	-26 3.9	2.335	3.325	4.7	21.1	6 30	17 29.39	-27 59.0	1.812	2.804	5.7	20.6
7 10	17 22.08	-26 8.9	2.373	3.313	7.9	21.2	7 10	17 22.25	-27 36.4	1.867	2.813	9.3	20.8
7 20	17 16.16	-26 11.9	2.435	3.301	10.8	21.4	7 20	17 17.24	-27 12.4	1.945	2.822	12.6	21.0
313927	2004 <i>RQ</i> ₅₉		6 16.6 299°53	8°2/16.2	18		368381	2002 <i>RU</i> ₁₅₃		6 16.6 264°10	6°2/15.6	18	
5 11	18 11.76	-44 23.4	2.221	3.013	13.9	20.1	5 11	18 8.34	-10 30.6	1.796	2.625	15.3	21.9
5 21	18 6.81	-45 35.8	2.127	2.993	11.9	19.9	5 21	18 3.68	-9 33.2	1.700	2.604	12.4	21.7
5 31	17 58.87	-46 37.9	2.053	2.973	9.9	19.8	5 31	17 56.56	-8 41.3	1.624	2.583	9.3	21.4
6 10	17 48.59	-47 23.5	2.004	2.953	8.5	19.6	6 10	17 47.59	-7 58.6	1.573	2.561	6.7	21.2
6 20	17 37.00	-47 47.5	1.979	2.934	8.3	19.6	6 20	17 37.65	-7 28.5	1.547	2.538	6.5	21.2
6 30	17 25.52	-47 47.8	1.979	2.914	9.6	19.6	6 30	17 27.84	-7 13.6	1.548	2.515	9.1	21.3
7 10	17 15.57	-47 26.4	2.003	2.894	11.7	19.7	7 10	17 19.26	-7 14.4	1.572	2.492	12.6	21.4
7 20	17 8.21	-46 48.0	2.048	2.875	14.0	19.8	7 20	17 12.78	-7 30.2	1.618	2.468	16.0	21.6
218350	2004 <i>FK</i> ₉₄		6 16.6 307°98	5°0/16.1	18		353887	2012 <i>XD</i> ₁₄		6 16.6 261°55	1°8/16.8	18	
5 11	18 5.70	-14 1.4	1.470	2.323	16.8	19.9	5 11	18 9.00	-27 59.1	2.158	2.989	13.0	21.8
5 21	18 2.07	-13 21.8	1.387	2.309	13.4	19.6	5 21	18 4.02	-28 13.8	2.058	2.971	10.1	21.6
5 31	17 55.68	-12 47.7	1.323	2.296	9.5	19.3	5 31	17 56.69	-28 25.4	1.981	2.953	6.8	21.3
6 10	17 47.23	-12 22.3	1.283	2.283	5.9	19.1	6 10	17 47.62	-28 31.9	1.929	2.935	3.3	21.1
6 20	17 37.75	-12 7.7	1.266	2.270	5.4	19.0	6 20	17 37.66	-28 31.5	1.904	2.917	2.2	21.0
6 30	17 28.54	-12 5.7	1.273	2.257	8.7	19.2	6 30	17 27.85	-28 24.0	1.908	2.898	5.7	21.2
7 10	17 20.87	-12 16.5	1.304	2.245	12.9	19.4	7 10	17 19.26	-28 11.0	1.938	2.879	9.3	21.4
7 20	17 15.65	-12 39.1	1.354	2.233	16.9	19.6	7 20	17 12.67	-27 54.7	1.991	2.859	12.7	21.5
114537	2003 <i>BO</i> ₂₀		6 16.6 25°74	4°7/17.1	18		384943	2012 <i>TA</i>					

EPHEMERIDES

6 16.6

6 16.7

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
107511	2001 <i>DF</i> ₅₂		6 16.6 240°11	3°0/16.6	18		25524	1999 <i>XA</i> ₁₀₆		6 16.6 203°49	3°9/16.5	18	
5 11	18 12.64	-28 44.1	1.750	2.585	15.3	19.9	5 11	18 6.74	-11 38.5	2.303	3.123	12.6	19.3
5 21	18 7.42	-29 25.4	1.659	2.574	12.0	19.7	5 21	18 1.80	-11 24.8	2.217	3.119	10.0	19.1
5 31	17 59.22	-30 4.6	1.591	2.563	8.2	19.4	5 31	17 54.98	-11 17.7	2.154	3.116	7.1	19.0
6 10	17 48.75	-30 37.5	1.547	2.551	4.3	19.2	6 10	17 46.86	-11 18.4	2.117	3.111	4.6	18.8
6 20	17 37.07	-31 0.6	1.529	2.539	3.4	19.1	6 20	17 38.13	-11 27.5	2.107	3.106	4.1	18.8
6 30	17 25.59	-31 12.0	1.538	2.526	7.0	19.3	6 30	17 29.62	-11 44.8	2.125	3.101	6.3	18.9
7 10	17 15.69	-31 13.0	1.572	2.513	11.2	19.5	7 10	17 22.14	-12 9.9	2.169	3.096	9.3	19.1
7 20	17 8.39	-31 6.8	1.629	2.499	14.9	19.7	7 20	17 16.29	-12 41.5	2.237	3.090	12.1	19.2
357737	2005 <i>RQ</i> ₄₂		6 16.6 144°84	8°2/15.6	18		185649	1802 <i>T</i> ₋₃		6 16.6 177°15	7°2/14.7	18	
5 11	18 3.44	+ 8 8.1	3.194	3.924	11.3	22.0	5 11	18 3.95	+ 1 16.7	3.023	3.791	11.1	21.1
5 21	17 58.65	+ 9 2.7	3.132	3.935	10.1	21.9	5 21	17 59.15	+ 2 26.4	2.948	3.792	9.6	21.0
5 31	17 52.63	+ 9 44.1	3.091	3.946	9.0	21.8	5 31	17 53.01	+ 3 26.4	2.896	3.794	8.2	20.9
6 10	17 45.79	+10 9.6	3.074	3.956	8.3	21.8	6 10	17 45.99	+ 4 13.5	2.870	3.795	7.3	20.8
6 20	17 38.65	+10 17.5	3.082	3.966	8.2	21.8	6 20	17 38.59	+ 4 45.4	2.871	3.795	7.3	20.8
6 30	17 31.73	+10 7.5	3.115	3.975	8.8	21.9	6 30	17 31.40	+ 5 1.0	2.897	3.795	8.2	20.9
7 10	17 25.56	+ 9 40.7	3.171	3.984	9.9	21.9	7 10	17 24.96	+ 5 0.6	2.948	3.795	9.7	21.0
7 20	17 20.53	+ 8 59.6	3.249	3.992	11.0	22.1	7 20	17 19.72	+ 4 45.8	3.022	3.794	11.2	21.1
147583	2004 <i>FR</i> ₁₃₀		6 16.6 336°49	3°7/16.9	18		476259	2007 <i>VJ</i> ₁₀₃		6 16.7 292°40	0°8/16.6	16	
5 11	18 4.74	-13 48.2	1.294	2.156	18.1	19.3	5 11	18 6.49	-21 0.4	1.876	2.719	14.1	21.9
5 21	18 1.75	-14 1.0	1.216	2.145	14.3	19.0	5 21	18 2.27	-21 1.8	1.783	2.704	10.9	21.7
5 31	17 55.73	-14 25.9	1.157	2.134	9.9	18.7	5 31	17 55.64	-21 4.6	1.712	2.689	7.2	21.4
6 10	17 47.37	-15 3.5	1.119	2.124	5.4	18.4	6 10	17 47.23	-21 8.4	1.665	2.674	3.0	21.2
6 20	17 37.79	-15 52.7	1.104	2.115	4.1	18.3	6 20	17 37.92	-21 12.7	1.645	2.659	1.7	21.0
6 30	17 28.46	-16 51.0	1.114	2.106	8.2	18.5	6 30	17 28.79	-21 17.3	1.651	2.644	6.0	21.3
7 10	17 20.82	-17 55.2	1.145	2.099	13.0	18.8	7 10	17 20.92	-21 22.8	1.683	2.629	10.1	21.5
7 20	17 15.92	-19 2.3	1.197	2.093	17.4	19.0	7 20	17 15.15	-21 30.1	1.737	2.615	13.8	21.7
496431	2014 <i>JM</i> ₃₄		6 16.6 64°85	5°0/15.6	17		175350	2005 <i>OM</i> ₇		6 16.7 290°98	0°1/16.6	17	
5 11	18 4.82	-11 3.9	2.208	3.033	12.9	21.0	5 11	18 2.48	-23 40.3	3.115	3.942	9.5	20.4
5 21	18 0.20	-10 2.0	2.142	3.045	10.3	20.8	5 21	17 58.26	-23 33.3	3.008	3.921	7.3	20.2
5 31	17 53.83	- 9 5.6	2.099	3.057	7.6	20.7	5 31	17 52.58	-23 25.2	2.924	3.899	4.7	20.0
6 10	17 46.32	- 8 17.8	2.082	3.069	5.5	20.6	6 10	17 45.86	-23 15.6	2.868	3.877	1.9	19.8
6 20	17 38.41	- 7 40.7	2.092	3.081	5.3	20.6	6 20	17 38.64	-23 4.5	2.840	3.855	1.0	19.7
6 30	17 30.89	- 7 16.1	2.129	3.093	7.2	20.7	6 30	17 31.53	-22 52.4	2.842	3.833	3.9	19.8
7 10	17 24.48	- 7 4.2	2.191	3.106	9.8	20.9	7 10	17 25.15	-22 40.0	2.871	3.811	6.7	20.0
7 20	17 19.71	- 7 4.3	2.276	3.118	12.3	21.1	7 20	17 20.00	-22 28.2	2.925	3.789	9.2	20.1
373591	2002 <i>CU</i> ₅₇		6 16.6 144°33	2°0/16.9	17		53277	1999 <i>FU</i> ₃₂		6 16.7 126°73	5°0/16.1	18	
5 11	18 12.08	-29 39.1	2.423	3.240	12.2	21.9	5 11	18 7.13	-12 24.0	1.768	2.604	15.2	17.5
5 21	18 5.81	-29 49.4	2.349	3.253	9.4	21.7	5 21	18 2.53	-11 42.6	1.695	2.606	12.0	17.3
5 31	17 57.50	-29 54.9	2.298	3.266	6.3	21.6	5 31	17 55.64	-11 7.7	1.643	2.608	8.6	17.0
6 10	17 47.83	-29 53.8	2.274	3.278	3.2	21.4	6 10	17 47.15	-10 41.7	1.615	2.610	5.7	16.9
6 20	17 37.65	-29 45.0	2.278	3.289	2.3	21.3	6 20	17 38.00	-10 26.7	1.613	2.612	5.3	16.9
6 30	17 27.89	-29 29.1	2.312	3.299	5.1	21.5	6 30	17 29.24	-10 23.7	1.637	2.614	7.8	17.0
7 10	17 19.42	-29 8.0	2.373	3.308	8.1	21.7	7 10	17 21.86	-10 32.6	1.686	2.616	11.2	17.2
7 20	17 12.85	-28 44.1	2.459	3.317	10.9	21.9	7 20	17 16.55	-10 52.1	1.756	2.617	14.4	17.4
15693	1984 <i>SN</i> ₆		6 16.6 64°57	0°9/16.7	18		295231	2008 <i>GY</i> ₁₂		6 16.7 264°70	6°3/15.8	18	
5 11	18 9.48	-24 41.2	1.608	2.456	15.9	16.8	5 11	18 3.40	- 5 24.6	2.375	3.183	12.6	20.8
5 21	18 4.73	-24 59.4	1.542	2.465	12.2	16.6	5 21	17 59.16	- 4 38.6	2.292	3.177	10.4	20.7
5 31	17 57.23	-25 16.7	1.496	2.474	7.9	16.4	5 31	17 53.24	- 4 1.5	2.232	3.171	8.2	20.5
6 10	17 47.83	-25 30.9	1.474	2.483	3.4	16.1	6 10	17 46.14	- 3 36.2	2.196	3.165	6.6	20.4
6 20	17 37.64	-25 40.5	1.478	2.492	1.9	16.1	6 20	17 38.51	- 3 24.5	2.187	3.159	6.4	20.4
6 30	17 27.97	-25 45.0	1.508	2.501	6.4	16.4	6 30	17 31.10	- 3 27.5	2.203	3.153	7.9	20.5
7 10	17 20.01	-25 45.7	1.562	2.511	10.6	16.6	7 10	17 24.62	- 3 44.6	2.245	3.147	10.1	20.6
7 20	17 14.55	-25 44.7	1.639	2.520	14.3	16.9	7 20	17 19.62	- 4 14.0	2.309	3.140	12.5	20.7
518241	2016 <i>UY</i> ₃₇		6 16.6 282°26	3°4/17.1	18		155762	2000 <i>SC</i> ₁₆₄		6 16.7 292°85	20°2/10.0	18	
5 11	18 8.66	-33 28.0	2.155	2.981	13.2	21.0	5 11	18 9.08	+ 6 25.9	1.051	1.868	24.4	19.6
5 21	18 3.69	-33 38.1	2.071	2.977	10.4	20.8	5 21	18 5.25	+ 9 53.7	1.004	1.866	22.4	19.4
5 31	17 56.39	-33 40.6	2.008	2.973	7.3	20.6	5 31	17 58.00	+12 56.6	0.974	1.864	20.8	19.3
6 10	17 47.46	-33 33.0	1.970	2.969	4.4	20.4	6 10	17 48.27	+15 18.4	0.962	1.862	20.2	19.3
6 20	17 37.82	-33 14.1	1.960	2.965	3.6	20.4	6 20	17 37.45	+16 47.1	0.967	1.861	20.8	19.3
6 30	17 28.56	-32 44.4	1.976	2.961	6.0	20.5	6 30	17 27.20	+17 17.6	0.987	1.859	22.3	19.4
7 10	17 20.68	-32 6.8	2.019	2.957	9.2	20.7	7 10	17 19.06	+16 53.8	1.022	1.857	24.3	19.5
7 20	17 14.91	-31 24.8	2.085	2.953	12.2	20.9	7 20	17 14.01	+15 45.4	1.069	1.856	26.4	19.7
254577	2005 <i>GS</i> ₃₀		6 16.6 4°71	1°2/16.7	17		275543	1998 <i>SJ</i> ₈₆		6 16.7 276°23	3°7/16.8	18	
5 11	18 4.99	-24 45.3	1.117	1.995	19.3	20.0	5 11	18 11.65	-30 59.5	1.703	2.540	15.6	20.8
5 21	18 2.37	-25 3.9	1.054	1.994	14.9	19.7	5 21	18 6.92	-31 30.2	1.603	2.518	12.4	20.6
5 31	17 56.26	-25 22.1	1.010	1.994	9.8	19.5	5 31	17 59.08	-31 56.3	1.525	2.495	8.7	20.3
6 10	17 47.58	-25 37.1	0.986	1.996	4.2	19.1	6 10	17 48.78	-32 13.5	1.470	2.472	4.9	20.0
6 20	17 37.75	-25 46.7	0.984	1.999	2.3	19.0	6 20	17 37.12	-32 18.2	1.441	2.448	4.0	19.9
6 30	17 28.52	-25 50.3	1.005	2.002	7.9	19.4	6 30	17 25.56	-32 9.3	1.437	2.424	7.5	20.1
7 10	17 21.48	-25 49.8	1.047	2.008	13.2	19.7	7 10	17 15.59	-31 48.9	1.459	2.400	11.7	20.2
7 20	17 17.65	-25 47.6	1.108	2.014	17.7	20.0	7 20	17 8.33	-31 21.1	1.501	2.376	15.7	20.4
318204	2004 <i>RQ</i> ₁₆₀		6 16.6 285°13	1°9/16.8	17		425745	2011 <					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
302835	2003 <i>FY</i> ₄₄		6 16.7 228°74	6°9/15.9	18		5971	Tickell		6 16.7 338°63	4°4/17.7	18	
5 11	18 4.16	-2 19.7	2.505	3.298	12.5	21.4	5 11	18 8.51	-35 18.2	1.391	2.240	17.8	15.8
5 21	17 59.67	-1 38.0	2.420	3.291	10.5	21.3	5 21	18 4.81	-35 2.2	1.310	2.229	14.2	15.5
5 31	17 53.54	-1 6.9	2.357	3.283	8.5	21.1	5 31	17 57.72	-34 31.2	1.249	2.219	10.1	15.3
6 10	17 46.27	-0 49.0	2.320	3.275	7.1	21.0	6 10	17 48.17	-33 42.0	1.209	2.210	6.0	15.0
6 20	17 38.48	-0 46.4	2.308	3.267	7.0	21.0	6 20	17 37.57	-32 34.0	1.193	2.201	4.6	14.9
6 30	17 30.88	-0 59.5	2.322	3.259	8.2	21.1	6 30	17 27.60	-31 10.7	1.202	2.194	7.9	15.1
7 10	17 24.16	-1 27.6	2.362	3.251	10.2	21.2	7 10	17 19.77	-29 39.6	1.234	2.187	12.4	15.3
7 20	17 18.85	-2 8.4	2.424	3.242	12.3	21.3	7 20	17 15.01	-28 8.5	1.287	2.181	16.6	15.5
33804	1999 <i>WL</i> ₄		6 16.7 191°44	0°4/16.6	18		444840	2007 <i>VF</i> ₉₂		6 16.7 258°65	3°1/15.7	17	
5 11	18 11.05	-21 44.5	1.903	2.737	14.3	19.3	5 11	18 16.19	-24 47.1	1.167	2.025	20.0	20.4
5 21	18 5.61	-21 52.2	1.820	2.736	11.1	19.1	5 21	18 10.86	-22 57.7	1.086	2.016	15.6	20.1
5 31	17 57.72	-22 1.0	1.759	2.735	7.2	18.8	5 31	18 1.73	-20 53.3	1.026	2.006	10.4	19.7
6 10	17 48.06	-22 9.8	1.723	2.732	3.0	18.6	6 10	17 49.84	-18 37.6	0.988	1.996	4.8	19.4
6 20	17 37.58	-22 17.4	1.715	2.730	1.6	18.5	6 20	17 36.75	-16 18.6	0.975	1.986	4.2	19.3
6 30	17 27.42	-22 23.6	1.735	2.727	5.9	18.7	6 30	17 24.38	-14 7.5	0.987	1.975	9.8	19.6
7 10	17 18.66	-22 29.1	1.780	2.723	9.9	19.0	7 10	17 14.43	-12 14.6	1.022	1.965	15.5	19.9
7 20	17 12.09	-22 35.1	1.849	2.718	13.5	19.2	7 20	17 7.93	-10 46.0	1.077	1.954	20.4	20.1
20401	1998 <i>OX</i> ₅		6 16.7 11°48	2°4/17.2	18		140934	2001 <i>VB</i> ₈₄		6 16.7 121°62	0°9/16.6	18	
5 11	18 9.98	-31 24.8	1.722	2.561	15.4	18.6	5 11	18 6.80	-20 25.3	2.745	3.568	10.7	21.4
5 21	18 5.06	-31 6.1	1.645	2.562	12.0	18.3	5 21	18 1.46	-20 21.1	2.675	3.585	8.2	21.3
5 31	17 57.41	-30 38.2	1.590	2.563	8.1	18.1	5 31	17 54.57	-20 17.6	2.629	3.601	5.3	21.1
6 10	17 47.91	-29 59.5	1.558	2.564	4.1	17.9	6 10	17 46.66	-20 14.7	2.610	3.617	2.3	20.9
6 20	17 37.70	-29 10.1	1.553	2.565	2.7	17.8	6 20	17 38.37	-20 12.2	2.620	3.633	1.4	20.9
6 30	17 28.06	-28 12.8	1.575	2.567	6.4	18.0	6 30	17 30.42	-20 10.5	2.659	3.648	4.3	21.1
7 10	17 20.16	-27 11.9	1.621	2.568	10.4	18.3	7 10	17 23.43	-20 10.0	2.726	3.663	7.2	21.3
7 20	17 14.76	-26 12.2	1.690	2.570	14.0	18.5	7 20	17 17.91	-20 11.3	2.818	3.677	9.7	21.5
114290	2002 <i>XO</i> ₂₈		6 16.7 282°03	0°1/16.7	18		79252	1994 <i>TR</i> ₁₁		6 16.7 276°11	1°7/16.7	18	
5 11	18 7.60	-23 43.5	2.116	2.952	13.0	20.2	5 11	18 10.26	-26 32.9	1.702	2.545	15.4	19.3
5 21	18 2.99	-23 42.1	2.009	2.926	10.1	20.0	5 21	18 5.68	-26 53.4	1.604	2.524	12.0	19.1
5 31	17 56.08	-23 39.6	1.925	2.901	6.7	19.7	5 31	17 58.19	-27 12.2	1.527	2.503	8.0	18.8
6 10	17 47.44	-23 35.1	1.866	2.875	2.8	19.4	6 10	17 48.42	-27 26.8	1.475	2.482	3.7	18.5
6 20	17 37.87	-23 28.0	1.834	2.848	1.4	19.3	6 20	17 37.39	-27 34.5	1.448	2.461	2.4	18.3
6 30	17 28.38	-23 18.6	1.830	2.822	5.6	19.5	6 30	17 26.48	-27 34.7	1.447	2.439	6.8	18.5
7 10	17 20.01	-23 8.1	1.852	2.795	9.5	19.7	7 10	17 17.06	-27 28.5	1.471	2.418	11.3	18.8
7 20	17 13.57	-22 58.2	1.897	2.768	13.1	19.9	7 20	17 10.16	-27 18.9	1.517	2.396	15.4	18.9
342936	2009 <i>AS</i> ₂₂		6 16.7 189°37	1°0/16.6	17		26999	1998 <i>BQ</i> ₄₁		6 16.7 126°97	5°5/16.5	18	
5 11	18 7.35	-20 55.8	2.150	2.984	12.9	22.1	5 11	18 4.97	-7 4.2	2.242	3.055	13.1	18.3
5 21	18 2.45	-20 48.3	2.068	2.984	9.9	21.9	5 21	18 0.42	-6 39.7	2.167	3.059	10.7	18.2
5 31	17 55.50	-20 41.4	2.008	2.983	6.5	21.7	5 31	17 54.08	-6 24.7	2.114	3.063	8.1	18.0
6 10	17 47.11	-20 34.9	1.974	2.982	2.8	21.4	6 10	17 46.52	-6 21.4	2.086	3.066	6.0	17.9
6 20	17 38.09	-20 28.8	1.968	2.981	1.7	21.4	6 20	17 38.44	-6 30.6	2.085	3.070	5.7	17.9
6 30	17 29.37	-20 23.6	1.989	2.980	5.3	21.6	6 30	17 30.64	-6 52.3	2.110	3.073	7.3	18.0
7 10	17 21.85	-20 20.1	2.037	2.979	8.9	21.8	7 10	17 23.88	-7 25.4	2.161	3.076	9.8	18.2
7 20	17 16.17	-20 19.1	2.108	2.977	12.1	22.0	7 20	17 18.73	-8 7.7	2.235	3.079	12.4	18.3
143325	2003 <i>AX</i> ₆₁		6 16.7 135°49	1°1/16.5	18		242744	2005 <i>UG</i> ₅₃₀		6 16.7 167°68	7°4/15.6	17	
5 11	18 6.88	-21 55.5	2.210	3.044	12.6	20.1	5 11	18 7.57	-3 11.3	2.238	3.034	13.7	21.7
5 21	18 1.96	-21 25.7	2.131	3.047	9.7	19.9	5 21	18 2.35	-2 9.9	2.166	3.039	11.5	21.6
5 31	17 55.09	-20 54.6	2.074	3.050	6.3	19.7	5 31	17 55.30	-1 19.2	2.115	3.043	9.2	21.5
6 10	17 46.91	-20 22.7	2.044	3.052	2.7	19.5	6 10	17 47.01	-0 42.5	2.089	3.046	7.7	21.4
6 20	17 38.20	-19 51.1	2.041	3.055	1.8	19.4	6 20	17 38.20	-0 22.6	2.089	3.049	7.6	21.4
6 30	17 29.86	-19 21.2	2.067	3.057	5.3	19.6	6 30	17 29.71	-0 20.4	2.116	3.051	9.0	21.5
7 10	17 22.71	-18 54.8	2.119	3.059	8.7	19.9	7 10	17 22.30	-0 35.2	2.167	3.053	11.1	21.6
7 20	17 17.35	-18 33.2	2.195	3.062	11.7	20.1	7 20	17 16.55	-1 4.7	2.240	3.054	13.4	21.8
229857	2009 <i>SM</i> ₃₄₆		6 16.7 336°34	6°5/15.8	17		2866	Hardy		6 16.7 304°03	3°9/17.1	18	
5 11	18 12.10	-33 25.0	1.551	2.391	16.8	19.4	5 11	18 8.37	-33 39.2	1.905	2.737	14.4	16.2
5 21	18 7.63	-35 1.9	1.475	2.386	13.5	19.2	5 21	18 4.02	-33 53.4	1.806	2.716	11.5	16.0
5 31	17 59.73	-36 35.7	1.420	2.382	10.0	19.0	5 31	17 56.96	-33 59.7	1.729	2.695	8.2	15.7
6 10	17 49.11	-37 58.7	1.388	2.378	7.1	18.8	6 10	17 47.86	-33 54.7	1.676	2.674	5.0	15.5
6 20	17 37.00	-39 3.2	1.381	2.374	6.8	18.8	6 20	17 37.73	-33 36.3	1.649	2.654	4.1	15.4
6 30	17 25.09	-39 45.3	1.400	2.371	9.4	18.9	6 30	17 27.84	-33 4.6	1.648	2.633	6.9	15.5
7 10	17 15.06	-40 5.7	1.441	2.368	13.0	19.1	7 10	17 19.41	-32 22.5	1.672	2.613	10.5	15.7
7 20	17 8.13	-40 8.9	1.503	2.366	16.4	19.3	7 20	17 13.37	-31 34.6	1.718	2.593	14.1	15.8
257874	2000 <i>SK</i> ₉₃		6 16.7 271°62	1°4/16.8	17		230861	2004 <i>RJ</i> ₁₇₇		6 16.7 176°70	4°8/17.5	18	
5 11	18 11.68	-27 21.7	1.552	2.398	16.5	21.3	5 11	18 14.04	-37 39.5	2.206	3.013	13.5	20.8
5 21	18 6.99	-27 15.6	1.456	2.378	12.9	21.1	5 21	18 7.83	-37 56.0	2.124	3.015	10.9	20.6
5 31	17 59.13	-27 4.2	1.380	2.357	8.6	20.8	5 31	17 59.09	-38 2.3	2.065	3.016	8.1	20.4
6 10	17 48.80	-26 45.3	1.328	2.336	3.8	20.4	6 10	17 48.61	-37 54.7	2.031	3.017	5.5	20.3
6 20	17 37.18	-26 17.8	1.300	2.315	2.2	20.2	6 20	17 37.42	-37 31.5	2.023	3.018	4.9	20.2
6 30	17 25.77	-25 42.8	1.299	2.293	7.1	20.5	6 30	17 26.72	-36 53.4	2.044	3.018	6.7	20.4
7 10	17 16.07	-25 3.8	1.322	2.271	12.1	20.7	7 10	17 17.61	-36 4.0	2.090	3.017	9.5	20.5
7 20	17 9.17	-24 25.3	1.366	2.248	16.5	20.9	7 20	17 10.81	-35 8.1	2.161	3.016	12.3	20.7
146684	2001 <i>VN</i> ₂₀		6 16.7 118°96	0°2/16.6	18		395571	2011 <i>UW</i> ₂₄₈		6 16.7 175°62	2°4/16.3		

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
341133	2007 <i>ME</i> ₁₃		6 16.7 321°61	6°4/17.3 17			74372	1998 <i>XL</i> ₁		6 16.7 130°01	1°3/16.5 18		
5 11	18 5.43	-7 21.0	1.513	2.351	17.2	20.4	5 11	18 7.93	-20 4.8	2.351	3.178	12.2	20.2
5 21	18 1.89	-7 22.3	1.426	2.335	14.0	20.1	5 21	18 2.61	-19 52.1	2.278	3.190	9.3	20.0
5 31	17 55.67	-7 39.6	1.359	2.319	10.5	19.9	5 31	17 55.46	-19 40.2	2.228	3.202	6.1	19.8
6 10	17 47.38	-8 15.5	1.313	2.304	7.3	19.6	6 10	17 47.09	-19 29.3	2.205	3.213	2.7	19.6
6 20	17 37.98	-9 10.3	1.292	2.289	6.5	19.6	6 20	17 38.26	-19 19.5	2.211	3.223	1.8	19.6
6 30	17 28.71	-10 22.1	1.295	2.275	9.1	19.7	6 30	17 29.79	-19 11.5	2.244	3.234	5.0	19.8
7 10	17 20.82	-11 46.9	1.322	2.262	12.9	19.8	7 10	17 22.47	-19 5.9	2.305	3.243	8.2	20.0
7 20	17 15.28	-13 19.8	1.370	2.249	16.7	20.0	7 20	17 16.84	-19 3.6	2.390	3.253	11.1	20.2
386424	2008 <i>VX</i> ₃		6 16.7 260°50	2°2/16.9 18			434336	2004 <i>LU</i> ₂₁		6 16.7 263°56	5°3/15.6 18		
5 11	18 10.35	-29 34.5	2.091	2.919	13.4	21.7	5 11	18 7.75	-12 44.5	1.899	2.730	14.5	20.1
5 21	18 5.18	-29 40.7	1.989	2.901	10.5	21.5	5 21	18 3.08	-11 41.9	1.805	2.713	11.6	19.9
5 31	17 57.55	-29 41.9	1.910	2.881	7.1	21.2	5 31	17 56.12	-10 42.6	1.733	2.696	8.4	19.6
6 10	17 48.07	-29 35.7	1.857	2.862	3.6	21.0	6 10	17 47.48	-9 49.7	1.687	2.679	5.8	19.4
6 20	17 37.66	-29 20.8	1.830	2.842	2.5	20.9	6 20	17 38.02	-9 6.6	1.666	2.661	5.6	19.4
6 30	17 27.44	-28 57.5	1.832	2.821	5.9	21.0	6 30	17 28.76	-8 36.0	1.672	2.643	8.2	19.5
7 10	17 18.52	-28 27.9	1.859	2.800	9.7	21.2	7 10	17 20.72	-8 19.4	1.703	2.625	11.6	19.7
7 20	17 11.74	-27 55.4	1.910	2.779	13.1	21.4	7 20	17 14.66	-8 16.6	1.756	2.607	14.9	19.8
64798	2001 <i>XA</i> ₂₀₈		6 16.7 51°41	4°1/16.5 17			178804	2001 <i>FZ</i> ₃₁		6 16.7 108°36	4°7/16.5 17		
5 11	18 8.98	-15 16.2	1.337	2.192	18.1	19.0	5 11	18 9.34	-12 37.9	1.628	2.465	16.2	21.0
5 21	18 4.71	-14 53.9	1.270	2.195	14.2	18.7	5 21	18 4.37	-12 10.5	1.562	2.475	12.8	20.8
5 31	17 57.44	-14 38.5	1.222	2.198	9.7	18.5	5 31	17 56.91	-11 50.9	1.517	2.484	9.0	20.6
6 10	17 48.04	-14 31.7	1.197	2.201	5.4	18.2	6 10	17 47.76	-11 41.1	1.496	2.494	5.6	20.4
6 20	17 37.71	-14 34.2	1.196	2.204	4.5	18.2	6 20	17 37.93	-11 42.1	1.501	2.503	5.0	20.4
6 30	17 27.90	-14 46.4	1.219	2.207	8.3	18.4	6 30	17 28.58	-11 54.2	1.531	2.512	7.8	20.6
7 10	17 19.92	-15 7.6	1.265	2.211	12.8	18.7	7 10	17 20.80	-12 16.4	1.586	2.520	11.5	20.8
7 20	17 14.67	-15 36.6	1.331	2.214	16.8	18.9	7 20	17 15.29	-12 47.2	1.662	2.529	14.9	21.0
471802	2012 <i>VL</i> ₉₂		6 16.7 167°09	0°2/16.7 18			357322	2003 <i>HW</i> ₅		6 16.7 28°08	4°4/16.3 17		
5 11	18 7.82	-22 50.7	2.309	3.139	12.3	22.1	5 11	18 7.55	-16 42.2	1.160	2.029	19.4	20.2
5 21	18 2.74	-23 7.1	2.227	3.142	9.4	21.9	5 21	18 3.91	-15 57.9	1.101	2.033	15.1	20.0
5 31	17 55.67	-23 24.0	2.169	3.144	6.1	21.7	5 31	17 57.04	-15 18.3	1.060	2.039	10.3	19.7
6 10	17 47.21	-23 40.1	2.137	3.146	2.5	21.5	6 10	17 47.90	-14 46.3	1.040	2.045	5.7	19.5
6 20	17 38.13	-23 54.2	2.133	3.147	1.3	21.4	6 20	17 37.86	-14 24.3	1.043	2.052	4.9	19.5
6 30	17 29.31	-24 6.0	2.157	3.149	4.9	21.7	6 30	17 28.48	-14 14.1	1.069	2.059	9.0	19.7
7 10	17 21.62	-24 15.7	2.208	3.150	8.3	21.9	7 10	17 21.18	-14 16.4	1.116	2.066	13.7	20.0
7 20	17 15.70	-24 24.2	2.284	3.151	11.3	22.1	7 20	17 16.82	-14 30.1	1.183	2.075	17.9	20.3
236930	2007 <i>TS</i> ₂₀₇		6 16.7 30°70	3°1/16.9 17			229894	2009 <i>UC</i> ₁₃₀		6 16.7 188°45	7°5/15.3 17		
5 11	18 8.54	-30 11.8	1.691	2.535	15.4	20.4	5 11	18 20.09	-39 6.1	2.115	2.911	14.4	20.8
5 21	18 4.08	-30 37.7	1.621	2.540	12.0	20.2	5 21	18 13.34	-41 1.0	2.034	2.910	11.9	20.6
5 31	17 56.89	-30 58.4	1.573	2.546	8.2	20.0	5 31	18 3.31	-42 49.8	1.976	2.909	9.5	20.4
6 10	17 47.78	-31 10.7	1.548	2.552	4.4	19.8	6 10	17 50.62	-44 24.3	1.945	2.908	7.7	20.3
6 20	17 37.85	-31 12.3	1.549	2.558	3.4	19.7	6 20	17 36.38	-45 37.2	1.941	2.906	7.7	20.3
6 30	17 28.42	-31 3.3	1.576	2.565	6.7	19.9	6 30	17 22.11	-46 24.7	1.965	2.904	9.4	20.4
7 10	17 20.68	-30 46.2	1.627	2.573	10.5	20.2	7 10	17 9.40	-46 47.9	2.014	2.901	11.8	20.5
7 20	17 15.44	-30 24.3	1.701	2.580	14.0	20.4	7 20	16 59.47	-46 51.5	2.085	2.898	14.2	20.7
182929	2002 <i>FJ</i> ₃₂		6 16.7 27°80	1°8/16.7 18			65519	4853 <i>P-L</i>		6 16.7 328°46	4°0/16.4 17		
5 11	18 6.56	-27 22.3	2.119	2.955	13.0	20.0	5 11	18 5.21	-16 40.0	1.163	2.035	19.1	19.0
5 21	18 2.02	-27 47.6	2.042	2.958	10.0	19.9	5 21	18 2.43	-16 12.3	1.088	2.023	15.0	18.7
5 31	17 55.32	-28 10.5	1.988	2.962	6.7	19.7	5 31	17 56.34	-15 50.0	1.031	2.012	10.3	18.4
6 10	17 47.09	-28 29.0	1.959	2.965	3.2	19.4	6 10	17 47.74	-15 35.3	0.995	2.001	5.5	18.1
6 20	17 38.19	-28 41.3	1.957	2.969	2.2	19.4	6 20	17 37.87	-15 29.8	0.981	1.992	4.5	18.1
6 30	17 29.62	-28 47.1	1.983	2.973	5.4	19.6	6 30	17 28.36	-15 34.7	0.990	1.983	9.0	18.3
7 10	17 22.31	-28 47.3	2.035	2.978	8.8	19.8	7 10	17 20.76	-15 50.0	1.020	1.975	14.1	18.5
7 20	17 16.94	-28 43.7	2.110	2.982	11.9	20.0	7 20	17 16.17	-16 15.0	1.068	1.967	18.8	18.8
93646	2000 <i>UR</i> ₉₀		6 16.7 244°97	1°3/16.8 18			441364	2008 <i>DY</i> ₈₁		6 16.7 18°90	9°0/17.2 16		
5 11	18 9.89	-26 43.1	2.085	2.916	13.4	20.3	5 11	18 9.74	-43 2.6	1.662	2.481	16.7	20.1
5 21	18 4.76	-26 54.6	1.989	2.903	10.4	20.1	5 21	18 5.66	-44 17.6	1.604	2.490	14.1	19.9
5 31	17 57.23	-27 3.6	1.915	2.889	6.9	19.8	5 31	17 58.24	-45 18.2	1.566	2.500	11.4	19.8
6 10	17 47.94	-27 8.2	1.867	2.875	3.1	19.6	6 10	17 48.43	-45 57.6	1.550	2.511	9.5	19.7
6 20	17 37.76	-27 7.0	1.847	2.860	1.9	19.4	6 20	17 37.58	-46 11.1	1.557	2.523	9.1	19.7
6 30	17 27.78	-26 59.8	1.854	2.845	5.7	19.7	6 30	17 27.37	-45 58.4	1.587	2.536	10.4	19.8
7 10	17 19.06	-26 48.1	1.887	2.829	9.5	19.9	7 10	17 19.29	-45 23.6	1.639	2.550	12.7	20.0
7 20	17 12.41	-26 34.2	1.944	2.814	12.9	20.0	7 20	17 14.26	-44 33.5	1.712	2.565	15.2	20.2
302281	2001 <i>XC</i> ₂₃₃		6 16.7 170°02	1°4/16.7 18			485907	2012 <i>GM</i>		6 16.7 50°69	23°1/19.1 18		
5 11	18 7.90	-26 1.8	2.364	3.193	12.1	21.0	5 11	18 8.78	+18 40.4	1.081	1.840	27.3	20.8
5 21	18 2.86	-26 33.6	2.282	3.194	9.3	20.8	5 21	18 5.01	+20 44.4	1.041	1.843	25.8	20.7
5 31	17 55.79	-27 4.6	2.222	3.195	6.1	20.6	5 31	17 57.85	+22 6.9	1.012	1.846	24.4	20.6
6 10	17 47.29	-27 32.5	2.189	3.196	2.8	20.4	6 10	17 48.27	+22 35.9	0.996	1.849	23.4	20.5
6 20	17 38.12	-27 55.5	2.185	3.197	1.9	20.3	6 20	17 37.67	+22 4.6	0.993	1.852	23.1	20.5
6 30	17 29.19	-28 12.8	2.208	3.198	5.0	20.6	6 30	17 27.72	+20 32.7	1.005	1.855	23.6	20.6
7 10	17 21.37	-28 24.8	2.259	3.198	8.3	20.8	7 10	17 19.91	+18 8.8	1.031	1.859	24.6	20.7
7 20	17 15.33	-28 32.6	2.333	3.199	11.2	21.0	7 20	17 15.19	+15 6.2	1.071	1.863	26.1	20.8
488335	2016 <i>VY</i> ₆		6 16.7 240°28	3°4/17.1 16			426711	2013 <i>TX</i> ₃₉					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
408851	2001 <i>SL</i> ₁₃₃	6 16.7 279°22		3°3/16.9 17			427906	2005 <i>UU</i> ₁₈₆	6 16.7 112°91		2°3/16.9 17		
5 11	18 11.98	-29 50.8	1.405	2.255	17.6	21.3	5 11	18 12.80	-29 6.5	2.027	2.853	13.9	22.4
5 21	18 7.73	-30 11.6	1.313	2.235	14.0	21.0	5 21	18 6.77	-29 29.6	1.962	2.871	10.7	22.2
5 31	17 59.92	-30 27.3	1.240	2.215	9.6	20.7	5 31	17 58.36	-29 48.4	1.919	2.889	7.2	22.0
6 10	17 49.28	-30 33.4	1.190	2.195	5.1	20.4	6 10	17 48.36	-30 0.1	1.902	2.907	3.6	21.9
6 20	17 37.09	-30 26.5	1.163	2.174	3.8	20.3	6 20	17 37.76	-30 3.1	1.913	2.923	2.7	21.8
6 30	17 25.08	-30 6.0	1.162	2.154	8.1	20.5	6 30	17 27.69	-29 57.5	1.952	2.940	5.7	22.1
7 10	17 15.00	-29 35.1	1.183	2.133	13.1	20.7	7 10	17 19.15	-29 45.2	2.017	2.956	9.2	22.3
7 20	17 8.09	-28 59.2	1.225	2.112	17.7	20.9	7 20	17 12.83	-29 29.2	2.105	2.971	12.2	22.5
244493	2002 <i>TB</i> ₆₂	6 16.7 297°31		1°7/16.4 18			492399	2014 <i>JP</i> ₄₈	6 16.7 322°65		1°6/16.6 18		
5 11	18 6.53	-21 8.5	1.859	2.703	14.2	20.2	5 11	18 7.26	-26 0.0	2.202	3.036	12.7	21.5
5 21	18 2.32	-20 34.3	1.764	2.685	11.0	20.0	5 21	18 2.59	-26 37.4	2.118	3.033	9.8	21.3
5 31	17 55.71	-19 58.5	1.690	2.667	7.3	19.7	5 31	17 55.75	-27 14.3	2.057	3.031	6.5	21.1
6 10	17 47.36	-19 21.9	1.640	2.649	3.3	19.4	6 10	17 47.36	-27 48.4	2.022	3.029	3.0	20.8
6 20	17 38.13	-18 45.9	1.618	2.630	2.4	19.3	6 20	17 38.21	-28 17.4	2.014	3.027	2.1	20.8
6 30	17 29.13	-18 12.5	1.622	2.612	6.4	19.5	6 30	17 29.28	-28 40.1	2.035	3.025	5.3	21.0
7 10	17 21.43	-17 43.9	1.651	2.595	10.5	19.7	7 10	17 21.52	-28 56.7	2.081	3.023	8.8	21.2
7 20	17 15.81	-17 22.1	1.702	2.577	14.2	19.9	7 20	17 15.64	-29 8.5	2.152	3.021	11.8	21.4
247365	2001 <i>XC</i> ₃₈	6 16.7 196°28		4°4/16.9 17			508940	2004 <i>RQ</i> ₁₆₅	6 16.7 266°14		2°2/16.8 18		
5 11	18 13.33	-34 58.7	2.147	2.962	13.6	20.7	5 11	18 12.03	-29 7.5	2.232	3.055	12.9	22.7
5 21	18 7.45	-35 31.2	2.062	2.960	10.9	20.5	5 21	18 6.51	-29 24.3	2.118	3.025	10.2	22.5
5 31	17 58.99	-35 56.3	1.999	2.957	7.9	20.3	5 31	17 58.51	-29 37.5	2.026	2.995	6.9	22.2
6 10	17 48.67	-36 9.9	1.962	2.954	5.2	20.1	6 10	17 48.58	-29 44.5	1.960	2.965	3.5	22.0
6 20	17 37.50	-36 9.6	1.951	2.950	4.5	20.1	6 20	17 37.56	-29 43.2	1.922	2.933	2.6	21.8
6 30	17 26.67	-35 55.0	1.969	2.945	6.7	20.2	6 30	17 26.56	-29 33.0	1.913	2.900	5.8	22.0
7 10	17 17.33	-35 28.5	2.012	2.940	9.8	20.4	7 10	17 16.68	-29 15.4	1.930	2.867	9.6	22.1
7 20	17 10.28	-34 54.3	2.078	2.935	12.7	20.6	7 20	17 8.84	-28 53.3	1.971	2.833	13.1	22.3
198507	2004 <i>XK</i> ₈₁	6 16.7 76°30		0°5/16.6 18			510829	2013 <i>CF</i> ₁₅	6 16.7 282°66		4°8/16.7 18		
5 11	18 10.04	-24 52.7	1.831	2.670	14.6	19.5	5 11	18 4.50	-8 36.2	2.280	3.098	12.8	21.1
5 21	18 4.66	-24 12.7	1.764	2.683	11.2	19.3	5 21	18 0.14	-8 22.1	2.199	3.096	10.3	20.9
5 31	17 56.95	-23 28.6	1.720	2.697	7.2	19.1	5 31	17 53.99	-8 16.8	2.139	3.093	7.6	20.8
6 10	17 47.73	-22 41.0	1.701	2.711	3.0	18.8	6 10	17 46.59	-8 22.0	2.104	3.091	5.4	20.6
6 20	17 38.02	-21 51.6	1.710	2.724	1.6	18.7	6 20	17 38.61	-8 38.2	2.097	3.088	5.0	20.6
6 30	17 28.92	-21 3.0	1.746	2.738	5.8	19.1	6 30	17 30.87	-9 5.2	2.116	3.086	6.8	20.7
7 10	17 21.39	-20 18.1	1.807	2.751	9.7	19.3	7 10	17 24.11	-9 41.7	2.161	3.084	9.5	20.8
7 20	17 16.06	-19 39.5	1.892	2.765	13.1	19.6	7 20	17 18.92	-10 26.1	2.229	3.081	12.1	21.0
49290	1998 <i>UV</i> ₄₁	6 16.7 270°44		0°5/16.7 18			336364	2008 <i>UQ</i> ₂₈	6 16.7 161°91		4°5/16.0 18		
5 11	18 9.82	-21 50.0	1.747	2.589	15.1	19.4	5 11	18 7.18	-11 55.3	2.226	3.047	13.0	21.6
5 21	18 5.19	-21 55.3	1.648	2.568	11.7	19.1	5 21	18 2.13	-11 10.5	2.149	3.051	10.3	21.4
5 31	17 57.80	-22 1.9	1.570	2.547	7.8	18.9	5 31	17 55.23	-10 30.8	2.095	3.055	7.4	21.3
6 10	17 48.30	-22 8.8	1.516	2.525	3.2	18.5	6 10	17 47.07	-9 58.5	2.067	3.058	5.0	21.1
6 20	17 37.63	-22 14.7	1.489	2.503	1.7	18.4	6 20	17 38.40	-9 35.3	2.066	3.061	4.7	21.1
6 30	17 27.05	-22 19.5	1.488	2.481	6.5	18.6	6 30	17 30.05	-9 22.5	2.093	3.064	6.8	21.2
7 10	17 17.84	-22 23.9	1.512	2.458	11.1	18.8	7 10	17 22.81	-9 20.4	2.146	3.066	9.7	21.4
7 20	17 10.97	-22 29.1	1.559	2.435	15.2	19.0	7 20	17 17.26	-9 28.2	2.222	3.068	12.4	21.6
420492	2012 <i>FZ</i> ₆	6 16.7 153°42		1°4/16.8 17			344994	2005 <i>AN</i> ₂₉	6 16.7 236°77		3°5/16.7 18		
5 11	18 13.05	-26 51.1	1.769	2.605	15.2	22.4	5 11	18 8.23	-11 59.6	2.407	3.222	12.3	21.3
5 21	18 7.34	-27 1.4	1.695	2.611	11.7	22.1	5 21	18 3.05	-11 58.0	2.306	3.206	9.8	21.1
5 31	17 58.93	-27 8.3	1.643	2.617	7.7	21.9	5 31	17 55.94	-12 3.2	2.229	3.191	6.9	20.9
6 10	17 48.63	-27 9.7	1.615	2.623	3.5	21.7	6 10	17 47.43	-12 16.0	2.178	3.174	4.3	20.7
6 20	17 37.54	-27 4.2	1.614	2.628	2.1	21.6	6 20	17 38.19	-12 36.4	2.155	3.157	3.7	20.6
6 30	17 26.94	-26 52.1	1.640	2.632	6.2	21.9	6 30	17 29.05	-13 4.2	2.160	3.139	6.0	20.7
7 10	17 18.01	-26 35.7	1.692	2.636	10.3	22.1	7 10	17 20.83	-13 38.3	2.193	3.121	9.1	20.9
7 20	17 11.55	-26 17.8	1.767	2.639	13.9	22.3	7 20	17 14.19	-14 17.8	2.250	3.102	12.0	21.0
418199	2008 <i>CY</i> ₇₇	6 16.7 88°36		1°5/16.8 17			522815	2016 <i>ND</i> ₈₁	6 16.7 300°08		0°3/16.7 18		
5 11	18 12.68	-26 2.1	1.587	2.430	16.3	21.5	5 11	18 7.29	-22 37.6	1.751	2.597	14.8	20.8
5 21	18 7.16	-26 22.4	1.527	2.447	12.5	21.3	5 21	18 3.23	-22 59.0	1.656	2.579	11.5	20.6
5 31	17 58.83	-26 40.4	1.488	2.465	8.2	21.1	5 31	17 56.53	-23 22.4	1.583	2.561	7.6	20.3
6 10	17 48.57	-26 53.4	1.474	2.482	3.6	20.9	6 10	17 47.80	-23 46.2	1.534	2.543	3.2	20.0
6 20	17 37.61	-26 59.6	1.485	2.499	2.2	20.8	6 20	17 37.98	-24 8.5	1.511	2.525	1.6	19.8
6 30	17 27.29	-26 58.9	1.523	2.515	6.4	21.1	6 30	17 28.27	-24 27.9	1.514	2.508	6.3	20.1
7 10	17 18.84	-26 53.3	1.585	2.532	10.6	21.4	7 10	17 19.90	-24 44.7	1.542	2.490	10.7	20.3
7 20	17 13.02	-26 45.4	1.670	2.548	14.3	21.7	7 20	17 13.82	-24 59.7	1.592	2.473	14.6	20.5
280279	2003 <i>EO</i> ₁₈	6 16.7 104°65		1°6/16.6 17			308154	2005 <i>AK</i> ₃₉	6 16.7 190°35		4°1/16.6 17		
5 11	18 11.33	-18 42.4	1.910	2.741	14.4	21.4	5 11	18 10.96	-12 48.9	1.877	2.703	14.8	21.5
5 21	18 5.51	-18 41.3	1.849	2.763	11.0	21.2	5 21	18 5.49	-12 33.3	1.796	2.702	11.7	21.2
5 31	17 57.46	-18 42.9	1.810	2.784	7.2	21.0	5 31	17 57.66	-12 24.8	1.735	2.700	8.2	21.0
6 10	17 47.96	-18 47.1	1.797	2.804	3.3	20.8	6 10	17 48.15	-12 24.6	1.700	2.698	5.0	20.8
6 20	17 37.93	-18 53.3	1.811	2.824	2.2	20.8	6 20	17 37.86	-12 33.2	1.692	2.695	4.4	20.8
6 30	17 28.44	-19 1.5	1.854	2.843	5.8	21.1	6 30	17 27.86	-12 50.7	1.711	2.691	7.2	20.9
7 10	17 20.42	-19 12.0	1.922	2.862	9.5	21.3	7 10	17 19.19	-13 16.3	1.755	2.687	10.8	21.1
7 20	17 14.50	-19 24.8	2.014	2.880	12.6	21.6	7 20	17 12.62	-13 48.8	1.823	2.682	14.1	21.3
504878	2010 <i>VV</i> ₉₇	6 16.7 319°17		4°8/16.5 17			262366	2006 <i>TH</i> ₈₉	6 16.7 153°41		0°1/16.7 17		

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
369746	2012 <i>FP</i> ₃₃		6 16.7 163°69	1°9/16.9	17		445273	2009 <i>SL</i> ₃₅₉		6 16.7 263°06	3°3/16.7	15	
5 11	18 14.11	-28 59.1	1.983	2.808	14.2	22.0	5 11	18 6.97	-32 55.0	2.714	3.531	11.0	21.5
5 21	18 7.91	-29 3.1	1.905	2.814	11.0	21.8	5 21	18 2.13	-33 31.8	2.622	3.523	8.7	21.3
5 31	17 59.19	-29 1.9	1.849	2.820	7.3	21.6	5 31	17 55.36	-34 4.2	2.553	3.514	6.2	21.1
6 10	17 48.75	-28 53.2	1.819	2.825	3.5	21.4	6 10	17 47.21	-34 29.5	2.511	3.506	3.9	21.0
6 20	17 37.59	-28 36.1	1.817	2.829	2.3	21.3	6 20	17 38.38	-34 45.7	2.497	3.498	3.4	20.9
6 30	17 26.92	-28 11.4	1.842	2.832	5.8	21.6	6 30	17 29.71	-34 52.1	2.511	3.490	5.4	21.1
7 10	17 17.81	-27 41.8	1.895	2.835	9.6	21.8	7 10	17 22.04	-34 49.6	2.552	3.481	7.9	21.2
7 20	17 11.00	-27 10.6	1.970	2.837	12.9	22.0	7 20	17 16.01	-34 40.1	2.617	3.473	10.4	21.4
244250	2002 <i>CM</i> ₁₆₂		6 16.7 10°25	9°5/18.4	18		67650	2000 <i>SM</i> ₂₂₈		6 16.7 349°15	5°9/16.7	18	
5 11	18 3.83	+ 2 0.6	1.692	2.496	17.1	19.0	5 11	18 4.79	-31 43.4	1.025	1.904	20.5	18.3
5 21	18 0.12	+ 2 10.3	1.627	2.499	14.6	18.9	5 21	18 3.05	-32 39.7	0.958	1.895	16.3	18.0
5 31	17 54.19	+ 1 58.7	1.580	2.503	12.1	18.7	5 31	17 57.28	-33 30.0	0.909	1.888	11.6	17.7
6 10	17 46.72	+ 1 22.5	1.555	2.509	10.1	18.6	6 10	17 48.34	-34 7.4	0.879	1.881	7.2	17.4
6 20	17 38.59	+ 0 21.2	1.553	2.515	9.5	18.6	6 20	17 37.79	-34 25.7	0.870	1.876	6.3	17.3
6 30	17 30.82	- 1 2.9	1.575	2.522	10.6	18.7	6 30	17 27.76	-34 22.8	0.882	1.873	10.0	17.5
7 10	17 24.36	- 2 44.8	1.621	2.530	12.9	18.8	7 10	17 20.25	-34 2.5	0.913	1.871	14.9	17.8
7 20	17 19.90	- 4 38.2	1.688	2.539	15.4	19.0	7 20	17 16.52	-33 30.9	0.962	1.871	19.5	18.1
311200	2004 <i>XG</i> ₉₄		6 16.7 331°36	0°1/16.7	17		153876	2001 <i>XR</i> ₁₂₁		6 16.7 192°55	0°7/16.7	17	
5 11	18 6.15	-19 47.2	1.129	2.004	19.3	19.7	5 11	18 9.60	-21 50.1	1.949	2.785	14.0	21.2
5 21	18 3.57	-20 36.7	1.052	1.990	15.1	19.3	5 21	18 4.48	-21 45.1	1.867	2.784	10.8	21.0
5 31	17 57.41	-21 36.4	0.992	1.977	10.0	19.0	5 31	17 57.02	-21 40.3	1.807	2.783	7.0	20.7
6 10	17 48.36	-22 43.4	0.954	1.964	4.1	18.6	6 10	17 47.91	-21 35.0	1.772	2.781	2.9	20.5
6 20	17 37.68	-23 52.7	0.938	1.953	2.1	18.5	6 20	17 38.07	-21 29.2	1.765	2.779	1.6	20.4
6 30	17 27.17	-24 59.4	0.945	1.943	8.3	18.8	6 30	17 28.56	-21 23.1	1.785	2.777	5.7	20.6
7 10	17 18.64	-26 0.2	0.973	1.933	14.0	19.1	7 10	17 20.39	-21 17.8	1.830	2.774	9.6	20.9
7 20	17 13.41	-26 54.3	1.020	1.925	19.0	19.3	7 20	17 14.31	-21 14.7	1.900	2.771	13.1	21.1
416663	2004 <i>TZ</i> ₂₈₀		6 16.7 247°08	0°5/16.7	17		247010	1999 <i>VM</i> ₁₇₈		6 16.7 276°54	0°6/16.7	18	
5 11	18 11.69	-22 11.8	1.632	2.475	15.9	22.5	5 11	18 7.07	-23 40.2	2.454	3.283	11.7	21.0
5 21	18 6.74	-22 12.7	1.540	2.461	12.4	22.2	5 21	18 2.35	-24 6.2	2.348	3.261	9.0	20.8
5 31	17 58.88	-22 14.2	1.469	2.446	8.2	21.9	5 31	17 55.62	-24 33.1	2.265	3.240	5.9	20.6
6 10	17 48.79	-22 15.2	1.422	2.432	3.4	21.6	6 10	17 47.37	-24 59.4	2.209	3.218	2.5	20.3
6 20	17 37.53	-22 14.6	1.401	2.416	1.8	21.5	6 20	17 38.31	-25 23.5	2.182	3.196	1.4	20.2
6 30	17 26.48	-22 12.5	1.407	2.400	6.8	21.8	6 30	17 29.29	-25 44.3	2.182	3.174	4.9	20.4
7 10	17 16.98	-22 10.2	1.437	2.384	11.5	22.0	7 10	17 21.20	-26 1.8	2.210	3.151	8.4	20.6
7 20	17 10.04	-22 9.5	1.489	2.367	15.7	22.2	7 20	17 14.75	-26 16.7	2.262	3.129	11.5	20.8
357961	2006 <i>BG</i> ₇		6 16.7 170°81	2°0/16.7	17		50263	2000 <i>BU</i> ₂₇		6 16.7 234°85	0°4/16.7	18	
5 11	18 11.56	-18 10.1	1.476	2.323	17.1	21.7	5 11	18 7.74	-21 53.4	2.077	2.913	13.2	19.4
5 21	18 6.61	-18 13.6	1.402	2.325	13.3	21.4	5 21	18 2.99	-21 59.9	1.991	2.908	10.2	19.2
5 31	17 58.71	-18 22.4	1.349	2.326	8.8	21.2	5 31	17 56.04	-22 7.3	1.927	2.903	6.7	18.9
6 10	17 48.67	-18 35.4	1.319	2.327	4.1	20.9	6 10	17 47.52	-22 14.6	1.889	2.898	2.8	18.7
6 20	17 37.63	-18 52.1	1.315	2.328	2.7	20.8	6 20	17 38.27	-22 21.1	1.878	2.893	1.4	18.6
6 30	17 27.03	-19 11.8	1.336	2.328	7.2	21.1	6 30	17 29.27	-22 26.7	1.895	2.887	5.4	18.8
7 10	17 18.17	-19 34.0	1.381	2.328	11.8	21.4	7 10	17 21.48	-22 31.8	1.938	2.882	9.2	19.0
7 20	17 11.98	-19 58.8	1.448	2.328	15.9	21.6	7 20	17 15.61	-22 37.5	2.004	2.876	12.5	19.2
333362	2001 <i>XH</i> ₂₄₃		6 16.7 296°24	4°6/17.2	18		438248	2005 <i>WG</i> ₃₇		6 16.7 240°94	0°2/16.7	18	
5 11	18 8.19	-10 1.4	1.662	2.495	16.1	20.0	5 11	18 5.88	-22 23.6	2.707	3.533	10.8	22.3
5 21	18 3.87	-10 18.7	1.572	2.481	12.9	19.7	5 21	18 1.10	-22 26.7	2.609	3.521	8.3	22.1
5 31	17 56.92	-10 49.8	1.502	2.467	9.3	19.5	5 31	17 54.61	-22 29.8	2.535	3.509	5.4	21.9
6 10	17 47.98	-11 35.4	1.456	2.454	5.8	19.2	6 10	17 46.89	-22 32.4	2.488	3.496	2.2	21.7
6 20	17 37.94	-12 34.6	1.436	2.440	4.8	19.1	6 20	17 38.58	-22 34.0	2.469	3.484	1.1	21.5
6 30	17 28.01	-13 45.0	1.442	2.426	7.7	19.3	6 30	17 30.43	-22 34.6	2.480	3.471	4.4	21.8
7 10	17 19.40	-15 3.1	1.472	2.413	11.7	19.5	7 10	17 23.16	-22 34.8	2.517	3.458	7.5	21.9
7 20	17 13.03	-16 25.2	1.526	2.400	15.5	19.7	7 20	17 17.35	-22 35.4	2.580	3.444	10.3	22.1
118479	2000 <i>AM</i> ₂₃₈		6 16.7 148°03	0°9/16.6	18		384565	2010 <i>GA</i> ₉₇		6 16.7 132°25	2°4/16.7	17	
5 11	18 12.01	-22 46.3	1.361	2.215	17.9	19.8	5 11	18 11.35	-28 36.8	2.324	3.145	12.5	21.3
5 21	18 7.17	-22 27.1	1.291	2.218	13.8	19.6	5 21	18 5.55	-29 21.2	2.249	3.157	9.7	21.1
5 31	17 59.14	-22 6.4	1.240	2.220	9.0	19.3	5 31	17 57.60	-30 2.9	2.199	3.168	6.5	20.9
6 10	17 48.85	-21 44.0	1.212	2.222	3.8	19.0	6 10	17 48.13	-30 39.2	2.175	3.178	3.5	20.7
6 20	17 37.58	-21 20.2	1.209	2.224	2.1	18.9	6 20	17 37.99	-31 7.3	2.180	3.188	2.7	20.7
6 30	17 26.90	-20 56.9	1.231	2.226	7.4	19.2	6 30	17 28.16	-31 26.4	2.213	3.198	5.4	20.9
7 10	17 18.22	-20 36.6	1.277	2.227	12.3	19.5	7 10	17 19.59	-31 37.3	2.273	3.207	8.5	21.1
7 20	17 12.44	-20 21.6	1.343	2.228	16.6	19.8	7 20	17 12.95	-31 41.7	2.358	3.216	11.3	21.3
332892	2011 <i>BC</i> ₁₁		6 16.7 148°34	3°5/16.6	17		179889	2002 <i>UQ</i> ₂₇		6 16.7 62°05	4°2/16.8	17	
5 11	18 9.46	-13 51.9	1.918	2.746	14.4	21.2	5 11	18 11.88	-31 20.7	1.534	2.377	16.7	19.8
5 21	18 4.22	-13 39.4	1.844	2.753	11.3	21.0	5 21	18 7.08	-32 3.2	1.465	2.382	13.2	19.6
5 31	17 56.76	-13 33.2	1.792	2.760	7.8	20.8	5 31	17 59.12	-32 40.0	1.417	2.387	9.2	19.4
6 10	17 47.76	-13 34.2	1.766	2.766	4.5	20.6	6 10	17 48.88	-33 6.2	1.391	2.392	5.4	19.2
6 20	17 38.12	-13 42.7	1.766	2.771	3.8	20.6	6 20	17 37.61	-33 18.5	1.391	2.397	4.5	19.1
6 30	17 28.85	-13 58.6	1.793	2.776	6.7	20.8	6 30	17 26.88	-33 15.9	1.416	2.403	7.6	19.3
7 10	17 20.91	-14 21.3	1.847	2.781	10.1	21.0	7 10	17 18.10	-33 1.3	1.465	2.408	11.6	19.5
7 20	17 14.97	-14 49.7	1.923	2.785	13.3	21.2	7 20	17 12.19	-32 39.1	1.535	2.414	15.3	19.8
48601	1995 <i>BL</i>		6 16.7 129°27	11°8/19.9	18 R		299						

EPHEMERIDES

6 16.7

6 16.7

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
143525	2003 <i>EZ</i> ₁₄		6 16.7 58°07'	4.4°/16.3	17		68865	2002 <i>JR</i> ₁₄		6 16.7 346°35'	0.9°/16.7	18	
5 11	18 5.03	-12 17.0	2.067	2.897	13.5	20.1	5 11	18 7.29	-20 8.6	1.673	2.521	15.3	19.2
5 21	18 0.65	-11 41.8	1.997	2.905	10.7	19.9	5 21	18 3.11	-20 20.9	1.595	2.519	11.9	18.9
5 31	17 54.35	-11 12.7	1.949	2.912	7.6	19.7	5 31	17 56.36	-20 36.5	1.539	2.517	7.8	18.7
6 10	17 46.78	-10 51.6	1.926	2.920	5.0	19.6	6 10	17 47.74	-20 54.4	1.506	2.515	3.3	18.4
6 20	17 38.69	-10 39.9	1.929	2.927	4.6	19.6	6 20	17 38.24	-21 13.5	1.499	2.514	1.8	18.3
6 30	17 30.95	-10 38.4	1.959	2.935	6.8	19.7	6 30	17 29.07	-21 32.9	1.518	2.512	6.3	18.6
7 10	17 24.38	-10 46.7	2.015	2.943	9.8	19.9	7 10	17 21.37	-21 52.5	1.562	2.511	10.6	18.8
7 20	17 19.55	-11 4.0	2.093	2.951	12.6	20.1	7 20	17 15.96	-22 12.5	1.628	2.510	14.3	19.1
213230	2000 <i>WP</i> ₈₅		6 16.7 229°92'	2°0/16.7	18		479533	2014 <i>BV</i> ₃₇		6 16.7 13°26'	7.7°/18.2	16	
5 11	18 13.18	-26 46.9	1.794	2.628	15.1	20.5	5 11	18 13.08	-44 0.7	1.880	2.682	15.7	20.5
5 21	18 7.78	-27 17.7	1.703	2.618	11.8	20.3	5 21	18 7.83	-44 29.2	1.806	2.684	13.2	20.3
5 31	17 59.52	-27 47.4	1.633	2.607	7.9	20.0	5 31	17 59.49	-44 42.1	1.753	2.685	10.5	20.1
6 10	17 49.08	-28 12.6	1.588	2.595	3.7	19.7	6 10	17 49.00	-44 34.2	1.722	2.687	8.4	20.0
6 20	17 37.50	-28 30.3	1.571	2.583	2.5	19.6	6 20	17 37.67	-44 2.6	1.716	2.690	7.8	20.0
6 30	17 26.11	-28 39.4	1.580	2.570	6.5	19.8	6 30	17 27.03	-43 8.5	1.735	2.693	9.0	20.1
7 10	17 16.24	-28 41.0	1.614	2.557	10.8	20.1	7 10	17 18.41	-41 57.0	1.778	2.696	11.5	20.2
7 20	17 8.86	-28 37.6	1.672	2.543	14.6	20.3	7 20	17 12.63	-40 35.1	1.843	2.699	14.1	20.4
69668	1998 <i>FD</i> ₁₃₃		6 16.7 83°79'	0°2/16.7	17		11517	<i>Esteracuna</i>		6 16.7 158°06'	0°2/16.8	18	
5 11	18 12.84	-23 50.7	1.455	2.303	17.2	19.8	5 11	18 6.67	-24 11.5	2.707	3.531	10.8	19.0
5 21	18 7.43	-23 52.7	1.398	2.322	13.2	19.6	5 21	18 1.60	-24 13.3	2.625	3.536	8.3	18.8
5 31	17 59.08	-23 53.6	1.361	2.340	8.5	19.4	5 31	17 54.86	-24 13.9	2.567	3.541	5.4	18.6
6 10	17 48.76	-23 51.9	1.348	2.358	3.5	19.1	6 10	17 46.99	-24 12.6	2.536	3.545	2.2	18.4
6 20	17 37.75	-23 46.7	1.361	2.375	1.7	19.1	6 20	17 38.65	-24 9.0	2.534	3.549	1.1	18.3
6 30	17 27.47	-23 38.7	1.399	2.393	6.7	19.4	6 30	17 30.57	-24 3.4	2.561	3.552	4.3	18.6
7 10	17 19.17	-23 29.7	1.461	2.410	11.1	19.7	7 10	17 23.47	-23 56.6	2.615	3.556	7.3	18.8
7 20	17 13.61	-23 22.1	1.545	2.427	15.0	20.0	7 20	17 17.86	-23 49.7	2.695	3.559	9.9	19.0
509792	2008 <i>UK</i> ₂₄₂		6 16.7 244°55'	6°0/16.3	18 R		504558	2008 <i>SQ</i> ₂₈₈		6 16.7 233°59'	1°6/16.7	18	
5 11	18 7.32	-5 56.5	2.344	3.147	13.0	22.0	5 11	18 10.82	-27 4.0	2.446	3.267	12.0	22.6
5 21	18 2.38	-5 26.5	2.245	3.129	10.7	21.8	5 21	18 5.24	-27 29.3	2.344	3.252	9.3	22.4
5 31	17 55.55	-5 5.9	2.169	3.111	8.3	21.6	5 31	17 57.51	-27 53.1	2.266	3.236	6.2	22.2
6 10	17 47.33	-4 56.9	2.117	3.092	6.4	21.5	6 10	17 48.19	-28 13.0	2.214	3.220	3.0	22.0
6 20	17 38.39	-5 1.2	2.093	3.072	6.1	21.4	6 20	17 38.02	-28 27.2	2.191	3.203	2.0	21.9
6 30	17 29.55	-5 19.5	2.096	3.052	7.8	21.5	6 30	17 27.97	-28 34.9	2.196	3.185	5.1	22.1
7 10	17 21.64	-5 50.8	2.124	3.031	10.4	21.6	7 10	17 18.96	-28 36.9	2.230	3.166	8.5	22.2
7 20	17 15.29	-6 33.4	2.176	3.010	13.0	21.7	7 20	17 11.74	-28 34.8	2.287	3.147	11.6	22.4
311236	2005 <i>CN</i> ₂₀		6 16.7 114°01'	1°0/16.7	17		505507	2013 <i>WL</i> ₉₈		6 16.7 187°56'	0°2/16.8	17	
5 11	18 12.76	-20 30.4	1.651	2.490	15.9	21.4	5 11	18 9.89	-24 22.1	2.135	2.966	13.1	22.3
5 21	18 7.08	-20 36.1	1.587	2.506	12.2	21.2	5 21	18 4.55	-24 20.0	2.051	2.965	10.1	22.1
5 31	17 58.76	-20 43.9	1.544	2.521	8.0	21.0	5 31	17 57.01	-24 16.2	1.990	2.965	6.6	21.9
6 10	17 48.63	-20 52.8	1.527	2.535	3.4	20.8	6 10	17 47.94	-24 9.7	1.955	2.963	2.7	21.6
6 20	17 37.80	-21 1.8	1.535	2.549	1.9	20.7	6 20	17 38.19	-24 0.2	1.947	2.962	1.3	21.5
6 30	17 27.54	-21 10.6	1.570	2.563	6.3	21.0	6 30	17 28.76	-23 48.0	1.968	2.960	5.3	21.8
7 10	17 18.98	-21 19.9	1.631	2.576	10.5	21.3	7 10	17 20.61	-23 34.7	2.015	2.957	9.0	22.0
7 20	17 12.88	-21 30.4	1.714	2.588	14.1	21.5	7 20	17 14.41	-23 21.9	2.086	2.954	12.2	22.2
402395	2005 <i>YW</i> ₉₇		6 16.7 286°21'	2°5/16.9	17		184968	2005 <i>WG</i> ₁₈₂		6 16.7 330°08'	1°5/16.8	18	
5 11	18 11.05	-28 22.3	1.317	2.174	18.2	20.8	5 11	18 5.35	-17 47.9	2.153	2.989	12.8	19.8
5 21	18 7.14	-28 35.3	1.229	2.156	14.3	20.5	5 21	18 1.07	-18 2.8	2.068	2.984	9.9	19.6
5 31	17 59.63	-28 43.7	1.160	2.138	9.7	20.2	5 31	17 54.77	-18 22.2	2.005	2.980	6.6	19.4
6 10	17 49.28	-28 43.8	1.113	2.120	4.7	19.9	6 10	17 47.04	-18 45.4	1.969	2.976	3.0	19.1
6 20	17 37.38	-28 32.7	1.090	2.103	3.1	19.7	6 20	17 38.62	-19 11.6	1.959	2.972	1.9	19.1
6 30	17 25.73	-28 10.5	1.091	2.085	8.1	19.9	6 30	17 30.41	-19 39.8	1.977	2.968	5.3	19.3
7 10	17 16.08	-27 40.6	1.114	2.067	13.4	20.2	7 10	17 23.28	-20 9.4	2.021	2.965	8.9	19.5
7 20	17 9.67	-27 7.9	1.157	2.050	18.1	20.4	7 20	17 17.90	-20 40.0	2.089	2.961	12.0	19.7
255208	2005 <i>UN</i> ₃₄₃		6 16.7 309°02'	0°3/16.7	18		319177	2005 <i>YW</i> ₁₁₇		6 16.7 318°31'	0°6/16.8	17	
5 11	18 6.12	-22 21.4	1.966	2.808	13.6	20.0	5 11	18 7.25	-24 19.9	1.566	2.420	15.9	21.0
5 21	18 2.12	-22 49.4	1.864	2.785	10.6	19.7	5 21	18 3.42	-24 27.6	1.482	2.409	12.4	20.7
5 31	17 55.74	-23 20.2	1.785	2.762	7.0	19.5	5 31	17 56.75	-24 34.7	1.419	2.399	8.1	20.4
6 10	17 47.52	-23 52.0	1.731	2.740	2.9	19.2	6 10	17 47.97	-24 39.3	1.379	2.389	3.4	20.1
6 20	17 38.28	-24 22.8	1.703	2.718	1.5	19.0	6 20	17 38.15	-24 40.3	1.365	2.379	1.7	20.0
6 30	17 29.08	-24 51.1	1.703	2.696	5.8	19.3	6 30	17 28.62	-24 37.6	1.375	2.370	6.6	20.3
7 10	17 21.01	-25 16.6	1.728	2.675	9.9	19.5	7 10	17 20.68	-24 32.6	1.410	2.361	11.2	20.5
7 20	17 14.96	-25 39.5	1.776	2.654	13.5	19.6	7 20	17 15.27	-24 27.3	1.465	2.353	15.3	20.7
295783	2008 <i>UN</i> ₂₂₅		6 16.7 153°24'	2°4/16.9	17		438242	2005 <i>VO</i> ₇₉		6 16.7 220°33'	0°3/16.8	18	
5 11	18 10.11	-29 50.2	2.073	2.902	13.5	21.5	5 11	18 7.61	-26 20.8	2.741	3.563	10.8	20.9
5 21	18 4.86	-30 6.0	1.994	2.905	10.5	21.3	5 21	18 2.33	-25 55.2	2.646	3.556	8.3	20.7
5 31	17 57.27	-30 16.9	1.938	2.908	7.1	21.1	5 31	17 55.35	-25 25.5	2.576	3.549	5.4	20.5
6 10	17 48.03	-30 20.7	1.907	2.911	3.7	20.9	6 10	17 47.21	-24 51.7	2.533	3.542	2.3	20.3
6 20	17 38.09	-30 15.7	1.904	2.914	2.7	20.8	6 20	17 38.58	-24 14.3	2.519	3.534	1.1	20.2
6 30	17 28.55	-30 2.4	1.928	2.916	5.7	21.0	6 30	17 30.22	-23 34.6	2.535	3.526	4.3	20.4
7 10	17 20.40	-29 42.7	1.978	2.919	9.2	21.2	7 10	17 22.85	-22 54.7	2.578	3.518	7.4	20.6
7 20	17 14.37	-29 19.5	2.051	2.921	12.3	21.4	7 20	17 17.01	-22 16.7	2.647	3.509	10.1	20.8
161502	2004 <i>RP</i> ₂₆		6 16.7 213°49'	3°6/17.0	18		185785	1999					

EPHEMERIDES

6 16.7

6 16.7

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
92372	2000 <i>HP</i> ₅₂		6 16.7 331°51	4.6/16.3	18		474189	1999 <i>XW</i> ₈		6 16.7 315°80	7.0/14.0	17	
5 11	18 5.69	-27 41.9	1.054	1.934	20.0	18.5	5 11	18 17.78	-28 22.7	1.494	2.332	17.4	19.8
5 21	18 3.78	-28 52.5	0.978	1.917	15.8	18.2	5 21	18 13.43	-30 55.9	1.371	2.284	14.2	19.5
5 31	17 57.91	-30 5.6	0.919	1.901	10.9	17.9	5 31	18 4.88	-33 47.8	1.270	2.236	10.5	19.1
6 10	17 48.75	-31 14.6	0.881	1.887	6.1	17.6	6 10	17 52.12	-36 49.1	1.195	2.188	7.4	18.8
6 20	17 37.70	-32 11.7	0.864	1.873	5.2	17.5	6 20	17 35.78	-39 45.0	1.147	2.140	7.9	18.7
6 30	17 26.79	-32 51.6	0.868	1.861	9.8	17.7	6 30	17 17.57	-42 19.8	1.127	2.092	12.0	18.8
7 10	17 18.17	-33 14.1	0.892	1.851	15.2	17.9	7 10	16 59.97	-44 23.6	1.132	2.045	16.9	18.9
7 20	17 13.30	-33 22.8	0.934	1.841	20.1	18.2	7 20	16 45.46	-45 56.0	1.158	1.998	21.7	19.1
439386	2013 <i>AB</i> ₁₁₀		6 16.7 39°82	5.2/18.4	18		503359	2016 <i>CO</i> ₃		6 16.7 350°53	0.9/16.6	17	
5 11	18 13.06	-40 29.6	2.007	2.814	14.7	19.7	5 11	18 2.68	-24 9.7	0.953	1.844	20.7	20.0
5 21	18 7.17	-40 15.4	1.936	2.825	11.9	19.5	5 21	18 1.16	-23 37.6	0.888	1.835	16.1	19.7
5 31	17 58.69	-39 46.5	1.887	2.835	8.9	19.3	5 31	17 55.87	-23 0.6	0.840	1.828	10.6	19.4
6 10	17 48.57	-39 0.1	1.862	2.846	6.2	19.2	6 10	17 47.76	-22 19.5	0.811	1.822	4.4	19.0
6 20	17 37.97	-37 56.2	1.864	2.857	5.3	19.2	6 20	17 38.34	-21 36.2	0.803	1.818	2.4	18.9
6 30	17 28.15	-36 37.5	1.892	2.869	6.9	19.3	6 30	17 29.52	-20 54.6	0.816	1.815	8.7	19.2
7 10	17 20.16	-35 9.9	1.947	2.881	9.8	19.5	7 10	17 23.07	-20 19.0	0.848	1.814	14.6	19.6
7 20	17 14.63	-33 39.4	2.026	2.893	12.6	19.7	7 20	17 20.06	-19 52.7	0.897	1.815	19.7	19.8
340454	2006 <i>GN</i> ₄₇		6 16.7 108°54	2.7/16.5	17		121664	1999 <i>XG</i> ₃₈		6 16.7 272°78	0.2/16.7	18	
5 11	18 7.27	-17 21.8	1.891	2.730	14.2	20.9	5 11	18 6.47	-22 20.4	2.432	3.262	11.7	19.6
5 21	18 2.66	-16 57.8	1.815	2.732	11.0	20.7	5 21	18 1.84	-22 47.1	2.336	3.250	9.0	19.4
5 31	17 55.84	-16 36.7	1.760	2.734	7.4	20.4	5 31	17 55.27	-23 15.5	2.263	3.238	5.9	19.2
6 10	17 47.47	-16 19.4	1.731	2.736	3.8	20.2	6 10	17 47.28	-23 44.2	2.218	3.226	2.4	18.9
6 20	17 38.45	-16 6.9	1.728	2.737	3.1	20.2	6 20	17 38.57	-24 11.5	2.200	3.215	1.2	18.8
6 30	17 29.80	-16 0.1	1.752	2.739	6.3	20.4	6 30	17 29.97	-24 36.6	2.211	3.203	4.8	19.1
7 10	17 22.46	-15 59.4	1.801	2.741	10.0	20.6	7 10	17 22.33	-24 59.2	2.248	3.191	8.2	19.2
7 20	17 17.12	-16 5.1	1.873	2.743	13.3	20.8	7 20	17 16.32	-25 19.6	2.311	3.178	11.2	19.4
236598	2006 <i>JT</i> ₇		6 16.7 89°02	3.0/16.4	17		299348	2005 <i>SU</i> ₁₇₉		6 16.7 151°01	5.6/17.3	18 R	
5 11	18 8.41	-16 39.2	1.924	2.759	14.2	20.7	5 11	18 12.35	-42 52.5	2.963	3.742	11.1	21.2
5 21	18 3.31	-16 7.0	1.861	2.775	11.0	20.6	5 21	18 6.21	-43 33.1	2.887	3.750	9.2	21.1
5 31	17 56.11	-15 38.0	1.820	2.791	7.4	20.4	5 31	17 57.99	-44 3.9	2.834	3.757	7.4	21.0
6 10	17 47.52	-15 13.6	1.804	2.806	4.0	20.2	6 10	17 48.34	-44 21.5	2.807	3.765	5.9	20.9
6 20	17 38.45	-14 54.9	1.814	2.822	3.4	20.2	6 20	17 38.09	-44 23.7	2.806	3.771	5.6	20.9
6 30	17 29.87	-14 43.1	1.853	2.837	6.3	20.4	6 30	17 28.17	-44 10.4	2.833	3.778	6.6	20.9
7 10	17 22.66	-14 38.5	1.916	2.852	9.7	20.6	7 10	17 19.48	-43 43.8	2.886	3.784	8.3	21.1
7 20	17 17.41	-14 41.2	2.003	2.867	12.8	20.8	7 20	17 12.67	-43 7.1	2.964	3.789	10.2	21.2
504732	2009 <i>VO</i> ₃₉		6 16.7 149°56	8.1/14.4	17		442132	2010 <i>UE</i> ₃₃		6 16.7 314°45	4.2/15.6	16	
5 11	18 9.68	- 4 34.5	2.120	2.920	14.2	21.3	5 11	18 4.73	-15 19.0	2.023	2.860	13.5	20.7
5 21	18 4.06	- 2 52.4	2.052	2.927	11.9	21.1	5 21	18 0.68	-14 13.5	1.930	2.844	10.7	20.5
5 31	17 56.52	- 1 18.8	2.006	2.934	9.7	21.0	5 31	17 54.58	-13 8.9	1.860	2.828	7.5	20.2
6 10	17 47.69	+ 0 1.0	1.987	2.941	8.2	20.9	6 10	17 47.00	-12 8.1	1.815	2.812	4.8	20.1
6 20	17 38.37	+ 1 3.0	1.994	2.947	8.3	20.9	6 20	17 38.73	-11 14.3	1.797	2.797	4.6	20.0
6 30	17 29.43	+ 1 44.2	2.027	2.953	9.8	21.0	6 30	17 30.68	-10 30.4	1.805	2.782	7.2	20.1
7 10	17 21.69	+ 2 4.6	2.085	2.958	12.0	21.2	7 10	17 23.76	- 9 58.3	1.839	2.767	10.6	20.3
7 20	17 15.72	+ 2 5.9	2.163	2.963	14.2	21.3	7 20	17 18.65	- 9 38.7	1.895	2.753	13.7	20.5
173807	2001 <i>SG</i> ₂₃₈		6 16.7 248°19	1.2/16.6	18		288080	2003 <i>VR</i> ₆		6 16.7 185°19	0.8/16.8	17	
5 11	18 6.50	-20 13.9	2.232	3.065	12.5	21.1	5 11	18 12.61	-25 12.2	1.906	2.738	14.4	22.1
5 21	18 1.88	-20 6.9	2.142	3.058	9.7	20.9	5 21	18 6.95	-25 20.6	1.824	2.739	11.1	21.9
5 31	17 55.27	-20 1.0	2.076	3.051	6.4	20.7	5 31	17 58.75	-25 27.2	1.764	2.738	7.3	21.7
6 10	17 47.25	-19 56.2	2.036	3.044	2.8	20.5	6 10	17 48.74	-25 30.2	1.729	2.738	3.1	21.4
6 20	17 38.56	-19 52.4	2.023	3.036	1.7	20.4	6 20	17 37.90	-25 28.4	1.722	2.736	1.6	21.3
6 30	17 30.10	-19 50.0	2.038	3.029	5.2	20.6	6 30	17 27.42	-25 21.8	1.742	2.734	5.8	21.6
7 10	17 22.73	-19 49.6	2.079	3.021	8.8	20.8	7 10	17 18.42	-25 12.0	1.788	2.731	9.9	21.8
7 20	17 17.11	-19 51.9	2.144	3.013	11.9	21.0	7 20	17 11.68	-25 1.3	1.858	2.728	13.4	22.0
387456	2013 <i>WY</i> ₈₅		6 16.7 170°26	0.2/16.7	17		479181	2013 <i>CA</i> ₅₅		6 16.7 132°71	5.8/17.3	18	
5 11	18 9.78	-22 59.7	2.418	3.242	12.0	22.7	5 11	18 11.56	-41 48.5	2.638	3.428	12.0	20.9
5 21	18 4.16	-22 58.1	2.336	3.246	9.2	22.5	5 21	18 5.83	-42 30.7	2.563	3.434	10.0	20.8
5 31	17 56.61	-22 55.7	2.277	3.250	6.0	22.3	5 31	17 57.85	-43 2.9	2.510	3.441	7.9	20.6
6 10	17 47.75	-22 51.9	2.244	3.253	2.5	22.1	6 10	17 48.32	-43 21.2	2.483	3.447	6.2	20.5
6 20	17 38.33	-22 46.3	2.241	3.255	1.2	22.0	6 20	17 38.12	-43 23.4	2.482	3.453	5.8	20.5
6 30	17 29.21	-22 39.3	2.266	3.257	4.8	22.2	6 30	17 28.30	-43 9.3	2.508	3.459	7.0	20.6
7 10	17 21.22	-22 31.9	2.319	3.258	8.1	22.5	7 10	17 19.80	-42 41.2	2.560	3.465	8.9	20.7
7 20	17 14.95	-22 25.3	2.396	3.259	11.0	22.7	7 20	17 13.34	-42 2.9	2.636	3.471	11.0	20.9
371594	2006 <i>WQ</i> ₉₈		6 16.7 314°53	0.1/16.7	17		359410	2010 <i>JS</i> ₁₂₁		6 16.7 359°42	5.7/17.2	17	
5 11	18 6.70	-22 43.6	1.341	2.205	17.5	21.1	5 11	18 4.17	-11 38.4	1.014	1.890	20.9	20.4
5 21	18 3.54	-22 53.4	1.254	2.187	13.7	20.8	5 21	18 1.91	-11 34.4	0.953	1.887	16.7	20.2
5 31	17 57.17	-23 4.6	1.187	2.169	9.0	20.5	5 31	17 56.19	-11 46.2	0.908	1.885	11.9	19.9
6 10	17 48.27	-23 15.8	1.142	2.152	3.8	20.1	6 10	17 47.88	-12 16.2	0.882	1.884	7.2	19.6
6 20	17 38.00	-23 25.4	1.120	2.135	1.9	19.9	6 20	17 38.33	-13 3.9	0.877	1.884	6.0	19.6
6 30	17 27.91	-23 32.7	1.122	2.119	7.5	20.2	6 30	17 29.25	-14 6.5	0.894	1.886	9.8	19.8
7 10	17 19.57	-23 38.7	1.147	2.103	12.8	20.5	7 10	17 22.27	-15 19.4	0.930	1.889	14.7	20.0
7 20	17 14.11	-23 44.8	1.191	2.088	17.4	20.7	7 20	17 18.45	-16 37.6	0.986	1.893	19.3	20.3
367735	2010 <i>UW</i> ₆₉		6 16.7 248°67	0.4/16.8	17		179520 </						

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
47833	2000 <i>EJ</i> ₁₁₄		6 16.7 128°24	0°2/16.8	18		225054	2007 <i>GY</i> ₆₁		6 16.8 110°27	3°9/16.8	17	
5 11	18 7.83	-24 4.1	2.056	2.893	13.3	18.7	5 11	18 13.84	-31 48.3	1.895	2.721	14.7	20.9
5 21	18 3.06	-24 4.3	1.977	2.895	10.2	18.5	5 21	18 8.02	-32 37.4	1.828	2.735	11.6	20.7
5 31	17 56.10	-24 3.3	1.921	2.897	6.7	18.3	5 31	17 59.50	-33 21.2	1.784	2.749	8.1	20.5
6 10	17 47.63	-24 0.2	1.889	2.898	2.8	18.1	6 10	17 49.08	-33 55.2	1.765	2.762	4.9	20.4
6 20	17 38.50	-23 54.4	1.885	2.900	1.3	18.0	6 20	17 37.86	-34 16.2	1.772	2.776	4.2	20.3
6 30	17 29.71	-23 46.4	1.909	2.902	5.3	18.3	6 30	17 27.13	-34 23.3	1.807	2.788	6.8	20.5
7 10	17 22.21	-23 37.3	1.958	2.904	9.0	18.5	7 10	17 18.06	-34 18.7	1.867	2.801	10.1	20.7
7 20	17 16.66	-23 28.8	2.031	2.905	12.3	18.7	7 20	17 11.46	-34 5.9	1.950	2.813	13.2	21.0
327779	2006 <i>UC</i> ₁₇₅		6 16.7 184°71	1°0/16.8	17		447349	2005 <i>YU</i> ₁₉₀		6 16.8 228°35	0°8/16.9	18	
5 11	18 11.92	-25 2.8	1.803	2.640	14.9	21.4	5 11	18 6.38	-26 18.8	2.839	3.661	10.4	22.0
5 21	18 6.60	-25 22.7	1.723	2.640	11.5	21.2	5 21	18 1.46	-26 18.8	2.743	3.652	8.0	21.9
5 31	17 58.63	-25 41.7	1.665	2.640	7.6	21.0	5 31	17 54.87	-26 16.4	2.671	3.643	5.3	21.7
6 10	17 48.73	-25 57.6	1.631	2.639	3.3	20.7	6 10	17 47.11	-26 10.7	2.626	3.633	2.3	21.5
6 20	17 37.95	-26 8.4	1.624	2.638	1.8	20.6	6 20	17 38.81	-26 1.3	2.609	3.623	1.3	21.4
6 30	17 27.51	-26 13.5	1.645	2.637	6.1	20.9	6 30	17 30.70	-25 48.5	2.622	3.613	4.2	21.6
7 10	17 18.60	-26 14.2	1.691	2.635	10.2	21.1	7 10	17 23.48	-25 33.4	2.663	3.603	7.2	21.7
7 20	17 12.05	-26 12.5	1.759	2.633	13.9	21.3	7 20	17 17.72	-25 17.5	2.728	3.592	9.8	21.9
374439	2005 <i>WV</i> ₁₇₆		6 16.7 172°13	0°6/16.8	17		124964	2001 <i>TV</i> ₁₀₃		6 16.8 126°93	1°5/16.9	18	
5 11	18 10.91	-24 25.0	2.278	3.103	12.6	22.5	5 11	18 14.77	-27 4.5	1.564	2.404	16.6	20.7
5 21	18 5.23	-24 40.9	2.196	3.107	9.7	22.3	5 21	18 8.98	-27 8.6	1.497	2.415	12.9	20.4
5 31	17 57.44	-24 56.0	2.137	3.110	6.3	22.1	5 31	18 0.21	-27 8.5	1.451	2.426	8.5	20.2
6 10	17 48.17	-25 8.7	2.104	3.112	2.7	21.9	6 10	17 49.38	-27 1.9	1.429	2.437	3.8	20.0
6 20	17 38.24	-25 17.8	2.100	3.114	1.4	21.8	6 20	17 37.76	-26 47.7	1.433	2.447	2.1	19.9
6 30	17 28.59	-25 22.9	2.124	3.115	5.0	22.0	6 30	17 26.79	-26 27.0	1.464	2.456	6.6	20.2
7 10	17 20.15	-25 25.0	2.176	3.116	8.5	22.2	7 10	17 17.75	-26 2.6	1.519	2.466	11.0	20.5
7 20	17 13.59	-25 25.3	2.251	3.116	11.6	22.4	7 20	17 11.46	-25 38.0	1.596	2.474	14.8	20.7
89396	2001 <i>VT</i> ₁₁₈		6 16.7 41°95	0°8/16.6	18		361432	2006 <i>YE</i> ₂₅		6 16.8 219°74	0°3/16.8	18	
5 11	18 9.69	-24 49.0	1.462	2.315	16.9	18.6	5 11	18 7.00	-20 51.4	2.510	3.337	11.5	20.9
5 21	18 5.04	-24 1.4	1.399	2.325	13.0	18.4	5 21	18 2.12	-21 12.8	2.420	3.333	8.9	20.7
5 31	17 57.57	-23 8.7	1.356	2.336	8.4	18.2	5 31	17 55.40	-21 36.3	2.354	3.328	5.8	20.5
6 10	17 48.24	-22 12.2	1.337	2.346	3.5	17.9	6 10	17 47.37	-22 0.7	2.314	3.323	2.4	20.3
6 20	17 38.25	-21 14.2	1.343	2.358	1.9	17.8	6 20	17 38.69	-22 25.0	2.303	3.317	1.2	20.2
6 30	17 28.98	-20 18.3	1.375	2.369	6.8	18.2	6 30	17 30.18	-22 48.2	2.320	3.312	4.6	20.4
7 10	17 21.59	-19 28.6	1.431	2.381	11.3	18.5	7 10	17 22.63	-23 10.3	2.365	3.306	7.9	20.6
7 20	17 16.80	-18 47.6	1.509	2.393	15.1	18.7	7 20	17 16.65	-23 31.3	2.435	3.300	10.8	20.8
375728	2009 <i>QM</i> ₄₇		6 16.7 273°39	1°1/16.7	18		358815	2008 <i>ER</i> ₁₂₁		6 16.8 188°09	6°6/17.3	18	
5 11	18 9.46	-20 23.3	1.750	2.591	15.1	21.6	5 11	18 13.12	-44 7.4	2.624	3.405	12.3	21.7
5 21	18 4.95	-20 25.4	1.651	2.571	11.8	21.4	5 21	18 7.22	-44 54.3	2.543	3.404	10.4	21.5
5 31	17 57.74	-20 29.9	1.573	2.550	7.8	21.1	5 31	17 58.90	-45 30.1	2.484	3.403	8.4	21.4
6 10	17 48.46	-20 36.2	1.520	2.529	3.4	20.8	6 10	17 48.84	-45 50.6	2.449	3.402	7.0	21.3
6 20	17 38.04	-20 43.4	1.493	2.507	1.9	20.6	6 20	17 37.99	-45 53.0	2.441	3.401	6.6	21.3
6 30	17 27.71	-20 51.4	1.493	2.486	6.5	20.8	6 30	17 27.47	-45 36.7	2.459	3.399	7.7	21.4
7 10	17 18.70	-21 0.5	1.517	2.464	11.0	21.1	7 10	17 18.36	-45 4.3	2.502	3.398	9.5	21.5
7 20	17 11.99	-21 11.7	1.564	2.441	15.1	21.2	7 20	17 11.42	-44 20.0	2.569	3.395	11.5	21.6
282060	1999 <i>TT</i> ₂₆₅		6 16.7 310°60	5°7/15.1	18		9176	Struchkova		6 16.8 225°31	2°0/16.6	18	
5 11	18 4.97	-12 40.5	1.950	2.785	14.0	20.2	5 11	18 7.71	-18 16.9	2.068	2.901	13.4	18.1
5 21	18 1.07	-11 22.5	1.847	2.756	11.3	19.9	5 21	18 2.95	-18 3.2	1.982	2.896	10.4	17.9
5 31	17 54.97	-10 5.8	1.766	2.728	8.4	19.7	5 31	17 56.07	-17 51.9	1.918	2.891	6.9	17.6
6 10	17 47.24	-8 54.2	1.711	2.700	6.0	19.5	6 10	17 47.67	-17 43.3	1.880	2.886	3.4	17.4
6 20	17 38.66	-7 51.9	1.681	2.672	6.0	19.4	6 20	17 38.56	-17 37.8	1.869	2.880	2.5	17.3
6 30	17 30.19	-7 2.6	1.678	2.645	8.5	19.5	6 30	17 29.72	-17 35.9	1.885	2.874	5.8	17.5
7 10	17 22.80	-6 28.7	1.699	2.618	11.8	19.7	7 10	17 22.06	-17 38.1	1.928	2.868	9.4	17.7
7 20	17 17.27	-6 10.8	1.741	2.591	15.1	19.8	7 20	17 16.28	-17 44.7	1.994	2.862	12.7	17.9
134936	2001 <i>BV</i> ₁₃		6 16.8 99°10	1°3/16.7	18		218594	2005 <i>MH</i> ₄₀		6 16.8 263°14	1°8/16.6	18	
5 11	18 12.06	-20 19.0	1.584	2.427	16.3	20.4	5 11	18 9.18	-20 6.1	1.713	2.557	15.3	20.8
5 21	18 6.65	-20 16.0	1.522	2.442	12.5	20.2	5 21	18 4.62	-19 44.6	1.624	2.544	11.9	20.5
5 31	17 58.56	-20 15.1	1.481	2.458	8.2	20.0	5 31	17 57.44	-19 23.8	1.555	2.532	7.9	20.2
6 10	17 48.65	-20 15.6	1.465	2.473	3.5	19.7	6 10	17 48.32	-19 4.0	1.511	2.519	3.6	19.9
6 20	17 38.06	-20 17.0	1.474	2.488	2.1	19.7	6 20	17 38.23	-18 45.9	1.493	2.506	2.5	19.8
6 30	17 28.07	-20 19.6	1.510	2.503	6.5	20.0	6 30	17 28.40	-18 30.7	1.502	2.493	6.7	20.1
7 10	17 19.82	-20 24.0	1.571	2.517	10.7	20.3	7 10	17 20.01	-18 19.9	1.535	2.480	11.0	20.3
7 20	17 14.07	-20 31.1	1.654	2.531	14.4	20.5	7 20	17 13.91	-18 14.7	1.590	2.466	14.9	20.5
275216	2009 <i>WA</i> ₁₈₅		6 16.8 172°16	3°3/16.1	17		276104	2002 <i>ES</i> ₁₄₉		6 16.8 294°77	7°3/16.9	18	
5 11	18 9.15	-17 44.1	1.872	2.709	14.5	20.2	5 11	18 12.86	-39 23.9	1.779	2.598	15.8	20.1
5 21	18 4.09	-16 48.4	1.794	2.710	11.3	20.0	5 21	18 8.03	-40 25.7	1.698	2.591	13.1	19.9
5 31	17 56.78	-15 53.2	1.739	2.711	7.6	19.8	5 31	17 59.96	-41 17.6	1.638	2.584	10.2	19.7
6 10	17 47.91	-15 0.8	1.709	2.711	4.2	19.6	6 10	17 49.44	-41 53.1	1.601	2.577	7.9	19.5
6 20	17 38.41	-14 13.7	1.705	2.712	3.7	19.6	6 20	17 37.68	-42 7.2	1.589	2.571	7.4	19.5
6 30	17 29.33	-13 34.5	1.729	2.712	6.9	19.8	6 30	17 26.27	-41 58.4	1.601	2.564	9.2	19.6
7 10	17 21.63	-13 5.0	1.778	2.712	10.5	20.0	7 10	17 16.70	-41 30.0	1.637	2.558	12.1	19.7
7 20	17 15.98	-12 46.2	1.850	2.712	13.8	20.2	7 20	17 10.04	-40 47.6	1.695	2.552	15.1	19.9
362758	2011 <i>WR</i> ₆		6 16.8 16°66	2°0/16.5	17		281625	2008 <i>UE</i>					

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
336197	2008 <i>RV</i> ₁₄₅		6 16.8 157°93	1°5/16.9	17		31172	1997 <i>XQ</i>		6 16.8 153°05	0°5/16.8	18	
5 11	18 10.84	-27 28.2	2.354	3.177	12.3	22.0	5 11	18 11.12	-24 56.2	2.105	2.934	13.3	19.6
5 21	18 5.13	-27 43.3	2.275	3.184	9.5	21.8	5 21	18 5.51	-24 55.6	2.028	2.941	10.3	19.4
5 31	17 57.36	-27 55.4	2.219	3.190	6.3	21.6	5 31	17 57.68	-24 52.8	1.974	2.948	6.7	19.2
6 10	17 48.17	-28 2.7	2.190	3.196	2.9	21.4	6 10	17 48.34	-24 46.9	1.945	2.954	2.8	19.0
6 20	17 38.37	-28 4.1	2.189	3.201	1.9	21.4	6 20	17 38.37	-24 37.2	1.945	2.959	1.4	18.9
6 30	17 28.91	-27 59.5	2.216	3.206	5.0	21.6	6 30	17 28.80	-24 24.4	1.973	2.965	5.3	19.2
7 10	17 20.67	-27 50.2	2.271	3.210	8.3	21.8	7 10	17 20.58	-24 9.9	2.027	2.969	8.9	19.4
7 20	17 14.28	-27 38.4	2.350	3.213	11.2	22.0	7 20	17 14.37	-23 55.8	2.105	2.973	12.1	19.6
507068	2008 <i>WB</i> ₁₁₅		6 16.8 195°99	0°7/16.8	18		393981	2005 <i>UT</i> ₃₅₂		6 16.8 194°79	2°0/16.4	18	
5 11	18 9.55	-24 53.6	2.394	3.219	12.0	22.5	5 11	18 5.72	-18 25.4	2.515	3.343	11.5	21.2
5 21	18 4.17	-25 7.3	2.306	3.217	9.3	22.3	5 21	18 1.01	-17 55.5	2.431	3.342	8.9	21.0
5 31	17 56.78	-25 20.0	2.241	3.214	6.1	22.1	5 31	17 54.60	-17 26.6	2.369	3.341	5.9	20.9
6 10	17 47.96	-25 30.1	2.202	3.211	2.6	21.8	6 10	17 47.04	-16 59.5	2.335	3.339	3.0	20.7
6 20	17 38.46	-25 36.6	2.192	3.207	1.4	21.7	6 20	17 39.00	-16 35.2	2.328	3.338	2.4	20.6
6 30	17 29.20	-25 39.2	2.211	3.202	4.9	22.0	6 30	17 31.21	-16 14.8	2.350	3.336	5.1	20.8
7 10	17 21.05	-25 38.8	2.257	3.197	8.2	22.2	7 10	17 24.40	-15 59.4	2.399	3.335	8.1	21.0
7 20	17 14.65	-25 36.6	2.327	3.192	11.2	22.4	7 20	17 19.11	-15 49.4	2.472	3.333	10.8	21.2
348173	2004 <i>NE</i> ₇		6 16.8 313°68	2°3/17.1	18		131621	2001 <i>XP</i> ₄₅		6 16.8 297°05	6°4/16.9	17	
5 11	18 6.96	-30 41.8	1.975	2.812	13.8	19.7	5 11	18 11.91	-34 53.2	1.320	2.169	18.6	19.4
5 21	18 2.84	-30 36.1	1.874	2.790	10.8	19.5	5 21	18 8.25	-35 39.8	1.233	2.150	15.1	19.2
5 31	17 56.25	-30 23.4	1.796	2.768	7.4	19.2	5 31	18 0.69	-36 18.3	1.165	2.131	11.1	18.9
6 10	17 47.83	-30 1.8	1.742	2.747	3.8	19.0	6 10	17 49.97	-36 41.5	1.118	2.113	7.5	18.6
6 20	17 38.50	-29 30.5	1.714	2.725	2.6	18.8	6 20	17 37.49	-36 43.5	1.093	2.094	6.7	18.5
6 30	17 29.40	-28 50.5	1.713	2.705	6.0	19.0	6 30	17 25.24	-36 22.5	1.092	2.076	9.8	18.6
7 10	17 21.63	-28 4.9	1.738	2.684	9.8	19.2	7 10	17 15.19	-35 42.3	1.113	2.058	14.2	18.8
7 20	17 16.03	-27 17.5	1.785	2.665	13.4	19.4	7 20	17 8.69	-34 50.2	1.153	2.041	18.6	19.0
260952	2005 <i>SQ</i> ₂₈		6 16.8 304°77	3°3/16.2	17 R		134602	1999 <i>TX</i> ₁₅₁		6 16.8 266°14	3°3/16.7	18	
5 11	18 5.08	-15 34.5	2.199	3.031	12.7	20.4	5 11	18 12.18	-28 50.3	1.621	2.463	16.1	19.9
5 21	18 0.75	-14 57.5	2.116	3.028	9.9	20.2	5 21	18 7.51	-29 33.0	1.531	2.449	12.7	19.6
5 31	17 54.54	-14 23.4	2.055	3.024	6.9	20.0	5 31	17 59.69	-30 13.9	1.462	2.435	8.7	19.3
6 10	17 47.02	-13 53.8	2.021	3.021	4.0	19.8	6 10	17 49.41	-30 48.5	1.416	2.420	4.7	19.1
6 20	17 38.93	-13 30.1	2.013	3.018	3.6	19.8	6 20	17 37.79	-31 12.7	1.396	2.405	3.7	19.0
6 30	17 31.11	-13 13.7	2.033	3.014	6.1	19.9	6 30	17 26.32	-31 24.6	1.402	2.390	7.4	19.2
7 10	17 24.37	-13 5.3	2.078	3.011	9.3	20.1	7 10	17 16.50	-31 25.2	1.431	2.375	11.8	19.4
7 20	17 19.30	-13 4.9	2.147	3.008	12.2	20.3	7 20	17 9.44	-31 18.1	1.483	2.360	15.8	19.6
398193	2010 <i>MR</i> ₈		6 16.8 262°45	11°7/14.4	18		444751	2007 <i>RZ</i> ₃₃		6 16.8 256°44	18°3/10.9	18	
5 11	18 3.80	+13 21.8	2.528	3.242	14.3	20.8	5 11	18 9.66	+6 1.5	1.195	2.001	22.7	20.3
5 21	17 59.59	+14 37.2	2.453	3.231	13.2	20.7	5 21	18 5.66	+9 1.6	1.137	1.993	20.7	20.1
5 31	17 53.71	+15 34.8	2.398	3.220	12.3	20.6	5 31	17 58.45	+11 41.0	1.097	1.985	19.0	20.0
6 10	17 46.68	+16 9.9	2.363	3.208	11.7	20.5	6 10	17 48.86	+13 45.6	1.074	1.977	18.3	19.9
6 20	17 39.09	+16 19.3	2.350	3.196	11.8	20.5	6 20	17 38.09	+15 4.4	1.071	1.969	18.8	19.9
6 30	17 31.66	+16 1.9	2.358	3.185	12.4	20.5	6 30	17 27.71	+15 31.9	1.085	1.961	20.4	20.0
7 10	17 25.10	+15 19.2	2.387	3.173	13.5	20.6	7 10	17 19.17	+15 10.3	1.114	1.952	22.5	20.1
7 20	17 19.97	+14 14.6	2.435	3.161	14.7	20.7	7 20	17 13.49	+14 7.4	1.157	1.943	24.8	20.2
206464	2003 <i>TM</i> ₁₅		6 16.8 268°27	2°7/16.5	18		286366	2001 <i>XV</i> ₁₆₃		6 16.8 249°79	3°1/17.3	18	
5 11	18 11.12	-27 41.3	2.054	2.884	13.6	20.2	5 11	18 9.60	-33 18.1	2.347	3.166	12.4	20.9
5 21	18 6.09	-28 34.6	1.954	2.866	10.7	20.0	5 21	18 4.42	-33 22.3	2.254	3.157	9.8	20.7
5 31	17 58.47	-29 28.2	1.877	2.847	7.3	19.8	5 31	17 57.04	-33 19.3	2.184	3.147	6.9	20.5
6 10	17 48.83	-30 18.3	1.825	2.829	3.8	19.5	6 10	17 48.12	-33 6.9	2.140	3.138	4.1	20.3
6 20	17 38.03	-31 1.1	1.800	2.810	3.1	19.4	6 20	17 38.49	-32 43.8	2.123	3.128	3.2	20.2
6 30	17 27.24	-31 34.2	1.804	2.790	6.3	19.6	6 30	17 29.18	-32 10.8	2.134	3.119	5.6	20.4
7 10	17 17.65	-31 57.4	1.833	2.771	10.0	19.8	7 10	17 21.11	-31 30.5	2.171	3.109	8.7	20.5
7 20	17 10.20	-32 12.3	1.886	2.751	13.5	20.0	7 20	17 14.99	-30 46.2	2.233	3.099	11.6	20.7
317190	2001 <i>YK</i> ₂		6 16.8 214°93	5°2/17.1	18		183089	2002 <i>RA</i> ₈₀		6 16.8 226°42	3°8/17.0	17	
5 11	18 12.86	-42 13.1	3.167	3.943	10.5	22.1	5 11	18 13.15	-32 8.2	1.766	2.598	15.4	21.1
5 21	18 6.63	-42 52.1	3.071	3.934	8.7	22.0	5 21	18 7.90	-32 35.1	1.682	2.592	12.2	20.8
5 31	17 58.36	-43 22.3	2.998	3.923	6.9	21.9	5 31	17 59.71	-32 55.7	1.618	2.586	8.5	20.6
6 10	17 48.63	-43 40.5	2.952	3.912	5.6	21.8	6 10	17 49.33	-33 5.9	1.579	2.579	5.0	20.4
6 20	17 38.18	-43 44.4	2.933	3.901	5.3	21.7	6 20	17 37.91	-33 2.8	1.566	2.572	4.1	20.3
6 30	17 27.92	-43 33.4	2.942	3.888	6.3	21.8	6 30	17 26.84	-32 46.2	1.579	2.565	7.1	20.5
7 10	17 18.73	-43 9.1	2.978	3.875	8.1	21.9	7 10	17 17.46	-32 18.8	1.617	2.557	10.9	20.7
7 20	17 11.28	-42 34.7	3.038	3.862	10.0	22.0	7 20	17 10.70	-31 45.3	1.677	2.549	14.5	20.9
158380	2001 <i>XP</i> ₂₀₈		6 16.8 145°78	2°2/16.4	18		351931	2006 <i>TR</i> ₂₅		6 16.8 147°18	3°9/16.9	17	
5 11	18 10.37	-19 47.9	1.997	2.828	13.8	19.8	5 11	18 10.15	-33 50.7	2.352	3.169	12.5	21.0
5 21	18 4.89	-19 5.7	1.921	2.835	10.7	19.6	5 21	18 4.87	-34 31.2	2.273	3.173	9.9	20.8
5 31	17 57.24	-18 23.2	1.869	2.842	7.1	19.3	5 31	17 57.36	-35 5.9	2.217	3.176	7.1	20.7
6 10	17 48.13	-17 41.6	1.842	2.848	3.4	19.1	6 10	17 48.27	-35 31.4	2.186	3.179	4.6	20.5
6 20	17 38.47	-17 2.7	1.843	2.854	2.7	19.1	6 20	17 38.45	-35 45.4	2.183	3.182	4.1	20.5
6 30	17 29.25	-16 28.4	1.872	2.860	6.0	19.3	6 30	17 28.93	-35 47.1	2.208	3.185	6.1	20.6
7 10	17 21.40	-16 0.5	1.928	2.865	9.6	19.5	7 10	17 20.67	-35 38.2	2.259	3.188	8.8	20.8
7 20	17 15.54	-15 40.2	2.006	2.869	12.8	19.8	7 20	17 14.39	-35 21.5	2.333	3.190	11.5	21.0
336242	2008 <i>SL</i> ₁₁₂		6 16.8 245°50	1°0/16.7	17		9293						

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
335037	2004 <i>RP</i> ₁₁		6 16.8 330°59	2°3/16.9	16		479252	2013 <i>EL</i> ₆₉		6 16.8 170°35	7°4/16.3	16	
5 11	18 3.88	-28 20.3	1.243	2.115	18.1	20.4	5 11	18 4.19	+ 1 43.5	2.727	3.499	12.1	21.5
5 21	18 1.80	-28 25.1	1.156	2.091	14.3	20.1	5 21	17 59.67	+ 2 24.2	2.653	3.501	10.4	21.4
5 31	17 56.31	-28 24.1	1.087	2.069	9.7	19.8	5 31	17 53.68	+ 2 52.6	2.600	3.503	8.8	21.3
6 10	17 48.12	-28 14.6	1.039	2.047	4.6	19.4	6 10	17 46.70	+ 3 6.2	2.571	3.504	7.6	21.2
6 20	17 38.48	-27 54.9	1.013	2.027	2.9	19.3	6 20	17 39.29	+ 3 3.4	2.568	3.506	7.5	21.2
6 30	17 29.05	-27 25.5	1.011	2.008	7.9	19.5	6 30	17 32.10	+ 2 43.9	2.591	3.507	8.4	21.3
7 10	17 21.54	-26 50.0	1.029	1.991	13.3	19.7	7 10	17 25.73	+ 2 9.0	2.639	3.508	10.0	21.4
7 20	17 17.14	-26 13.2	1.067	1.974	18.1	20.0	7 20	17 20.67	+ 1 21.1	2.709	3.508	11.7	21.5
167473	2003 <i>YE</i> ₄₂		6 16.8 252°59	3°0/16.9	18		64233	2001 <i>TA</i> ₁₂₄		6 16.8 160°82	0°2/16.8	18	
5 11	18 8.71	-13 7.9	2.418	3.233	12.2	20.5	5 11	18 8.28	-25 19.5	2.297	3.126	12.3	19.1
5 21	18 3.59	-13 14.9	2.311	3.213	9.7	20.3	5 21	18 3.18	-24 59.9	2.215	3.129	9.5	18.9
5 31	17 56.51	-13 28.6	2.228	3.192	6.8	20.1	5 31	17 56.13	-24 37.1	2.156	3.131	6.2	18.7
6 10	17 47.96	-13 49.5	2.171	3.170	3.9	19.8	6 10	17 47.74	-24 10.8	2.124	3.132	2.6	18.5
6 20	17 38.60	-14 17.0	2.142	3.148	3.2	19.8	6 20	17 38.81	-23 41.4	2.119	3.134	1.2	18.4
6 30	17 29.27	-14 50.7	2.142	3.125	5.7	19.9	6 30	17 30.23	-23 10.4	2.143	3.136	4.9	18.7
7 10	17 20.83	-15 29.4	2.170	3.102	9.0	20.0	7 10	17 22.84	-22 39.6	2.194	3.137	8.3	18.9
7 20	17 13.96	-16 12.1	2.222	3.078	12.0	20.2	7 20	17 17.24	-22 11.0	2.269	3.138	11.3	19.1
69255	1981 <i>ER</i> ₄₀		6 16.8 86°95	0°7/16.8	17		311230	2005 <i>BR</i> ₁₆		6 16.8 135°38	0°8/16.8	17	
5 11	18 11.76	-25 8.8	1.588	2.433	16.2	19.8	5 11	18 13.57	-24 33.1	1.666	2.504	15.8	21.4
5 21	18 6.59	-25 11.4	1.524	2.446	12.5	19.6	5 21	18 7.98	-24 51.0	1.596	2.514	12.2	21.1
5 31	17 58.65	-25 11.8	1.481	2.459	8.1	19.4	5 31	17 59.61	-25 8.0	1.547	2.523	8.0	20.9
6 10	17 48.82	-25 8.3	1.463	2.472	3.4	19.1	6 10	17 49.27	-25 22.0	1.523	2.531	3.4	20.7
6 20	17 38.26	-25 0.1	1.470	2.484	1.7	19.0	6 20	17 38.10	-25 30.9	1.525	2.539	1.8	20.6
6 30	17 28.31	-24 47.9	1.503	2.497	6.3	19.4	6 30	17 27.43	-25 34.6	1.554	2.547	6.3	20.9
7 10	17 20.15	-24 33.8	1.561	2.509	10.6	19.6	7 10	17 18.47	-25 34.4	1.608	2.554	10.6	21.1
7 20	17 14.55	-24 20.2	1.641	2.522	14.3	19.9	7 20	17 12.05	-25 32.4	1.685	2.560	14.3	21.4
37568	1989 <i>TP</i>		6 16.8 305°95	20°6/	5.6 18 R		478700	2012 <i>UG</i> ₃₅		6 16.8 252°83	0°5/16.8	18	
5 11	18 9.45	- 0 49.0	0.884	1.740	25.0	17.7	5 11	18 8.71	-22 29.5	2.211	3.041	12.7	22.8
5 21	18 6.37	+ 3 52.0	0.829	1.727	22.5	17.5	5 21	18 3.79	-22 21.9	2.111	3.025	9.9	22.6
5 31	17 59.37	+ 8 25.3	0.793	1.715	20.9	17.3	5 31	17 56.73	-22 13.6	2.034	3.009	6.5	22.3
6 10	17 49.39	+12 26.5	0.776	1.703	20.8	17.2	6 10	17 48.08	-22 4.3	1.984	2.992	2.7	22.1
6 20	17 37.92	+15 33.6	0.777	1.692	22.3	17.3	6 20	17 38.65	-21 53.6	1.960	2.975	1.4	21.9
6 30	17 26.90	+17 33.0	0.795	1.681	24.9	17.4	6 30	17 29.37	-21 42.2	1.965	2.957	5.3	22.2
7 10	17 18.17	+18 24.5	0.825	1.670	27.8	17.5	7 10	17 21.20	-21 31.2	1.997	2.939	9.0	22.4
7 20	17 12.93	+18 17.2	0.864	1.661	30.6	17.7	7 20	17 14.86	-21 22.1	2.052	2.921	12.4	22.5
471136	2010 <i>EO</i> ₆₅		6 16.8 13°77	0°6/17.1	15		294662	2008 <i>AO</i> ₈₅		6 16.8 158°73	0°5/16.8	17	
5 11	17 49.24	-32 42.2	14.185	14.992	2.4	21.4	5 11	18 12.22	-21 42.3	1.838	2.672	14.8	22.2
5 21	17 47.47	-32 43.7	14.106	15.002	1.9	21.4	5 21	18 6.68	-21 45.8	1.762	2.678	11.4	22.0
5 31	17 45.43	-32 44.0	14.053	15.013	1.3	21.3	5 31	17 58.65	-21 50.1	1.708	2.683	7.4	21.7
6 10	17 43.21	-32 43.1	14.028	15.023	0.8	21.3	6 10	17 48.86	-21 54.2	1.679	2.688	3.1	21.5
6 20	17 40.93	-32 40.8	14.031	15.034	0.7	21.2	6 20	17 38.32	-21 57.3	1.677	2.692	1.6	21.4
6 30	17 38.68	-32 37.3	14.064	15.044	1.1	21.3	6 30	17 28.17	-21 59.5	1.703	2.696	5.9	21.7
7 10	17 36.59	-32 32.6	14.125	15.055	1.6	21.3	7 10	17 19.51	-22 1.4	1.755	2.699	10.0	21.9
7 20	17 34.73	-32 26.9	14.212	15.066	2.2	21.4	7 20	17 13.10	-22 4.4	1.830	2.701	13.5	22.1
306430	1998 <i>SG</i> ₄₈		6 16.8 286°71	5°2/16.8	17		100409	1996 <i>AX</i> ₈		6 16.8 88°19	1°8/16.7	17	
5 11	18 12.48	-32 2.6	1.339	2.190	18.3	20.5	5 11	18 7.75	-18 50.3	1.893	2.732	14.2	20.4
5 21	18 8.58	-32 50.0	1.250	2.171	14.7	20.2	5 21	18 3.16	-18 42.1	1.817	2.735	11.0	20.2
5 31	18 0.89	-33 32.6	1.181	2.152	10.5	19.9	5 31	17 56.31	-18 36.5	1.762	2.737	7.3	19.9
6 10	17 50.10	-34 4.2	1.133	2.133	6.5	19.6	6 10	17 47.89	-18 33.7	1.733	2.740	3.4	19.7
6 20	17 37.54	-34 18.9	1.108	2.113	5.5	19.5	6 20	17 38.78	-18 33.7	1.730	2.742	2.3	19.6
6 30	17 25.11	-34 14.3	1.107	2.094	9.2	19.6	6 30	17 30.01	-18 36.6	1.754	2.745	5.9	19.9
7 10	17 14.73	-33 53.0	1.128	2.075	13.9	19.8	7 10	17 22.57	-18 42.9	1.803	2.747	9.7	20.1
7 20	17 7.79	-33 21.0	1.169	2.056	18.4	20.1	7 20	17 17.14	-18 52.8	1.875	2.750	13.1	20.3
478200	2011 <i>UZ</i> ₂₅₂		6 16.8 230°67	0°1/16.8	18		357538	2004 <i>RP</i> ₂₄₀		6 16.8 350°98	4°8/17.2	17	
5 11	18 7.07	-23 30.5	2.681	3.505	10.9	22.5	5 11	18 9.04	-36 31.1	2.204	3.022	13.2	21.0
5 21	18 2.13	-23 32.2	2.583	3.494	8.4	22.4	5 21	18 4.26	-37 2.9	2.123	3.021	10.6	20.8
5 31	17 55.42	-23 33.1	2.510	3.483	5.5	22.2	5 31	17 57.09	-37 26.4	2.065	3.020	7.8	20.6
6 10	17 47.46	-23 32.6	2.463	3.472	2.3	21.9	6 10	17 48.23	-37 38.2	2.031	3.019	5.5	20.5
6 20	17 38.90	-23 30.2	2.446	3.460	1.1	21.8	6 20	17 38.62	-37 36.0	2.023	3.018	4.9	20.4
6 30	17 30.51	-23 26.0	2.457	3.448	4.4	22.0	6 30	17 29.35	-37 19.7	2.043	3.017	6.7	20.6
7 10	17 23.03	-23 20.9	2.495	3.436	7.6	22.2	7 10	17 21.46	-36 51.6	2.087	3.017	9.4	20.7
7 20	17 17.05	-23 15.8	2.559	3.423	10.4	22.4	7 20	17 15.71	-36 15.6	2.155	3.016	12.1	20.9
293384	2007 <i>ED</i> ₄₁		6 16.8 270°30	2°0/16.6	17		37242	2000 <i>WE</i> ₁₇₂		6 16.8 20°93	6°5/17.3	18	
5 11	18 9.83	-18 51.1	1.805	2.643	14.8	21.5	5 11	18 7.57	- 6 13.0	1.683	2.507	16.3	18.1
5 21	18 5.19	-18 38.5	1.703	2.620	11.6	21.3	5 21	18 3.21	- 6 6.5	1.610	2.508	13.3	17.9
5 31	17 57.94	-18 28.1	1.622	2.597	7.8	21.0	5 31	17 56.45	- 6 14.6	1.557	2.510	10.1	17.7
6 10	17 48.67	-18 20.2	1.566	2.573	3.7	20.7	6 10	17 47.99	- 6 39.4	1.528	2.512	7.3	17.6
6 20	17 38.28	-18 14.9	1.536	2.548	2.6	20.5	6 20	17 38.75	- 7 21.2	1.523	2.514	6.6	17.5
6 30	17 27.96	-18 13.0	1.533	2.523	6.7	20.7	6 30	17 29.83	- 8 18.5	1.544	2.516	8.6	17.6
7 10	17 18.91	-18 15.1	1.555	2.498	11.1	20.9	7 10	17 22.27	- 9 27.8	1.589	2.518	11.8	17.8
7 20	17 12.05	-18 22.0	1.599	2.472	15.0	21.1	7 20	17 16.84	-10 45.3	1.656	2.521	15.0	18.0
349451	2008 <i>CH</i> ₆₉		6 16.8 51°13	4°2/17.4	17								

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
368358	2002 <i>QP</i> ₁₂₄		6 16.8 302°43	4.2/16.5	17		446336	2014 <i>GQ</i> ₁₆		6 16.8 38°10	9.2/15.8	17	
5 11	18 6.87	-15 39.4	1.406	2.262	17.3	21.5	5 11	18 3.94	-0 18.6	1.964	2.766	15.1	20.6
5 21	18 3.53	-15 9.9	1.313	2.238	13.8	21.2	5 21	17 59.95	+0 56.0	1.907	2.777	12.9	20.5
5 31	17 57.20	-14 45.2	1.239	2.214	9.6	20.9	5 31	17 54.06	+1 56.1	1.870	2.788	10.8	20.4
6 10	17 48.49	-14 27.5	1.187	2.191	5.5	20.6	6 10	17 46.93	+2 37.4	1.856	2.800	9.4	20.3
6 20	17 38.46	-14 18.6	1.159	2.167	4.6	20.5	6 20	17 39.32	+2 57.0	1.866	2.812	9.3	20.3
6 30	17 28.49	-14 20.1	1.155	2.144	8.6	20.7	6 30	17 32.09	+2 54.0	1.900	2.824	10.5	20.4
7 10	17 20.05	-14 32.5	1.174	2.122	13.4	20.9	7 10	17 26.03	+2 30.1	1.957	2.837	12.4	20.6
7 20	17 14.22	-14 55.3	1.212	2.099	17.9	21.1	7 20	17 21.68	+1 48.6	2.034	2.850	14.4	20.7
292449	2006 <i>SO</i> ₃₅₇		6 16.8 315°71	3.1/16.3	18		396481	2014 <i>FL</i> ₄₂		6 16.8 163°53	0.1/16.8	18	
5 11	18 5.83	-16 57.4	2.022	2.859	13.5	20.2	5 11	18 7.68	-22 40.7	2.268	3.100	12.4	21.6
5 21	18 1.56	-16 16.9	1.938	2.854	10.5	20.0	5 21	18 2.82	-22 46.7	2.187	3.102	9.5	21.4
5 31	17 55.22	-15 38.4	1.877	2.849	7.2	19.8	5 31	17 55.98	-22 52.8	2.128	3.103	6.2	21.2
6 10	17 47.45	-15 3.3	1.841	2.844	4.0	19.6	6 10	17 47.76	-22 58.2	2.096	3.105	2.6	20.9
6 20	17 39.03	-14 33.5	1.832	2.839	3.4	19.5	6 20	17 38.92	-23 2.1	2.091	3.106	1.2	20.8
6 30	17 30.91	-14 10.7	1.850	2.835	6.3	19.7	6 30	17 30.36	-23 4.5	2.115	3.107	4.9	21.1
7 10	17 23.97	-13 55.9	1.894	2.830	9.8	19.9	7 10	17 22.93	-23 6.2	2.165	3.108	8.4	21.3
7 20	17 18.86	-13 49.5	1.960	2.826	12.9	20.1	7 20	17 17.26	-23 7.9	2.239	3.109	11.4	21.5
36995	2000 <i>TX</i> ₄		6 16.8 51°68	3.5/17.1	18		214756	2006 <i>TW</i> ₇₉		6 16.8 119°65	1.0/16.7	18	
5 11	18 12.70	-30 29.6	1.423	2.271	17.6	18.2	5 11	18 7.23	-22 12.3	2.198	3.032	12.7	20.5
5 21	18 7.61	-30 58.4	1.375	2.295	13.6	18.0	5 21	18 2.46	-21 46.2	2.118	3.034	9.7	20.3
5 31	17 59.41	-31 20.4	1.347	2.320	9.2	17.8	5 31	17 55.72	-21 18.9	2.061	3.036	6.4	20.1
6 10	17 49.18	-31 31.6	1.342	2.346	5.0	17.6	6 10	17 47.63	-20 50.7	2.029	3.038	2.7	19.8
6 20	17 38.28	-31 30.1	1.362	2.371	3.8	17.6	6 20	17 38.99	-20 22.4	2.026	3.040	1.6	19.8
6 30	17 28.24	-31 16.4	1.407	2.397	7.2	17.9	6 30	17 30.70	-19 55.3	2.050	3.041	5.2	20.0
7 10	17 20.34	-30 54.3	1.476	2.423	11.2	18.2	7 10	17 23.59	-19 31.1	2.101	3.043	8.6	20.2
7 20	17 15.32	-30 28.0	1.566	2.449	14.7	18.4	7 20	17 18.26	-19 11.2	2.175	3.045	11.7	20.4
469768	2005 <i>QR</i> ₄₇		6 16.8 192°53	8.1/16.1	18		23369	1295 <i>T-2</i>		6 16.8 228°00	5.6/16.9	18	
5 11	18 4.35	+8 9.2	3.200	3.928	11.3	22.0	5 11	18 15.01	-39 36.8	2.499	3.292	12.5	19.6
5 21	17 59.62	+8 51.9	3.123	3.926	10.1	21.9	5 21	18 8.85	-40 21.8	2.402	3.279	10.3	19.4
5 31	17 53.60	+9 21.4	3.067	3.923	9.0	21.8	5 31	18 0.17	-40 58.4	2.327	3.266	8.0	19.3
6 10	17 46.69	+9 35.0	3.034	3.920	8.2	21.8	6 10	17 49.59	-41 21.9	2.278	3.251	6.1	19.1
6 20	17 39.40	+9 31.1	3.026	3.916	8.2	21.7	6 20	17 38.04	-41 29.2	2.256	3.236	5.7	19.1
6 30	17 32.28	+9 9.4	3.043	3.912	8.8	21.8	6 30	17 26.66	-41 19.2	2.261	3.220	7.2	19.1
7 10	17 25.85	+8 31.1	3.085	3.907	9.9	21.8	7 10	17 16.59	-40 53.9	2.293	3.204	9.6	19.3
7 20	17 20.55	+7 38.6	3.148	3.902	11.2	21.9	7 20	17 8.68	-40 17.3	2.348	3.186	12.1	19.4
143496	2003 <i>DU</i> ₁₀		6 16.8 30°31	0.2/16.8	17		305467	2008 <i>DR</i> ₃₆		6 16.8 172°65	6.4/17.6	18	
5 11	18 6.19	-22 23.4	1.719	2.568	14.9	19.6	5 11	18 14.41	-45 20.7	2.819	3.589	11.8	21.4
5 21	18 2.15	-22 30.4	1.656	2.580	11.4	19.4	5 21	18 8.11	-46 2.7	2.739	3.591	10.0	21.3
5 31	17 55.72	-22 38.1	1.614	2.593	7.4	19.1	5 31	17 59.48	-46 33.3	2.682	3.594	8.2	21.2
6 10	17 47.66	-22 45.5	1.596	2.606	3.1	18.9	6 10	17 49.23	-46 48.6	2.649	3.595	6.8	21.1
6 20	17 38.96	-22 51.7	1.605	2.620	1.4	18.8	6 20	17 38.27	-46 46.0	2.642	3.597	6.5	21.1
6 30	17 30.74	-22 56.7	1.639	2.634	5.8	19.1	6 30	17 27.67	-46 25.3	2.663	3.598	7.4	21.1
7 10	17 24.00	-23 1.2	1.698	2.649	9.8	19.4	7 10	17 18.45	-45 49.1	2.709	3.598	9.0	21.3
7 20	17 19.44	-23 6.1	1.780	2.664	13.2	19.6	7 20	17 11.31	-45 1.4	2.778	3.599	10.9	21.4
282373	2003 <i>QK</i> ₁₆		6 16.8 224°37	2.4/17.1	17		35273	1996 <i>RF</i> ₁₁		6 16.8 339°90	0.3/16.8	18	
5 11	18 13.50	-29 55.5	1.637	2.475	16.1	20.8	5 11	18 8.44	-23 46.9	1.571	2.422	16.0	19.5
5 21	18 8.25	-29 55.3	1.554	2.470	12.6	20.6	5 21	18 4.34	-23 54.2	1.493	2.418	12.4	19.2
5 31	17 59.99	-29 48.1	1.492	2.464	8.6	20.3	5 31	17 57.44	-24 1.2	1.437	2.415	8.1	19.0
6 10	17 49.53	-29 31.3	1.453	2.458	4.3	20.0	6 10	17 48.50	-24 6.3	1.403	2.413	3.4	18.7
6 20	17 38.06	-29 3.5	1.440	2.452	2.8	19.9	6 20	17 38.60	-24 8.5	1.395	2.410	1.6	18.5
6 30	17 27.04	-28 26.2	1.454	2.446	6.8	20.2	6 30	17 29.08	-24 7.5	1.413	2.408	6.5	18.9
7 10	17 17.81	-27 43.1	1.492	2.439	11.2	20.4	7 10	17 21.19	-24 4.8	1.455	2.406	11.0	19.1
7 20	17 11.30	-26 58.8	1.552	2.431	15.1	20.6	7 20	17 15.79	-24 2.1	1.518	2.405	14.9	19.3
18371	1991 <i>PH</i> ₁₀		6 16.8 247°36	0.5/16.8	18		386939	2011 <i>OA</i> ₄₉		6 16.8 349°83	3.8/17.3	16	
5 11	18 9.27	-21 58.7	2.017	2.852	13.6	18.6	5 11	18 7.89	-32 48.6	1.585	2.431	16.2	20.0
5 21	18 4.43	-21 59.7	1.924	2.840	10.6	18.4	5 21	18 4.09	-32 58.1	1.508	2.426	12.8	19.8
5 31	17 57.25	-22 1.2	1.852	2.828	6.9	18.1	5 31	17 57.34	-32 58.6	1.451	2.421	8.9	19.5
6 10	17 48.35	-22 2.5	1.806	2.815	2.9	17.8	6 10	17 48.46	-32 47.2	1.416	2.418	5.2	19.3
6 20	17 38.60	-22 2.8	1.788	2.802	1.5	17.7	6 20	17 38.63	-32 22.1	1.407	2.414	4.0	19.2
6 30	17 29.04	-22 2.4	1.796	2.789	5.6	18.0	6 30	17 29.29	-31 44.5	1.422	2.412	7.2	19.4
7 10	17 20.69	-22 1.9	1.831	2.775	9.6	18.2	7 10	17 21.73	-30 58.3	1.461	2.410	11.1	19.6
7 20	17 14.35	-22 2.6	1.889	2.762	13.1	18.4	7 20	17 16.83	-30 8.5	1.522	2.409	14.9	19.9
480758	2016 <i>NW</i> ₄₃		6 16.8 286°31	2.5/16.8	17		273669	2007 <i>DK</i> ₁₁₀		6 16.8 54°31	4.9/16.5	17	
5 11	18 7.36	-16 42.2	1.830	2.670	14.6	21.4	5 11	18 7.69	-12 55.0	1.594	2.437	16.3	20.7
5 21	18 3.05	-16 38.0	1.745	2.663	11.4	21.1	5 21	18 3.36	-12 20.6	1.528	2.444	12.8	20.5
5 31	17 56.39	-16 38.7	1.682	2.656	7.7	20.9	5 31	17 56.56	-11 53.6	1.483	2.451	9.1	20.3
6 10	17 48.00	-16 44.6	1.643	2.649	3.9	20.7	6 10	17 48.05	-11 36.3	1.461	2.458	5.8	20.1
6 20	17 38.78	-16 55.7	1.631	2.642	2.9	20.6	6 20	17 38.85	-11 30.3	1.464	2.466	5.1	20.1
6 30	17 29.80	-17 11.6	1.645	2.635	6.4	20.8	6 30	17 30.10	-11 36.0	1.492	2.474	7.9	20.3
7 10	17 22.10	-17 32.2	1.684	2.628	10.3	21.0	7 10	17 22.88	-11 53.0	1.544	2.481	11.6	20.5
7 20	17 16.46	-17 56.8	1.746	2.621	13.9	21.2	7 20	17 17.89	-12 19.6	1.618	2.489	15.0	20.8
371974	2008 <i>GO</i> ₁₂		6 16.8 33°09	1.1/16.8	17		227951	2007 <i>GO</i> ₅₉					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
352953	2009 BA ₂₄	6 16.8 266°22		4.4°/16.9 17			66745	1999 TO ₁₂₈	6 16.8 248°59		6.4°/16.6 18		
5 11	18 6.97	-10 17.7	2.085	2.907	13.7	21.0	5 11	18 14.50	-39 11.1	2.190	2.993	13.7	19.0
5 21	18 2.47	-10 13.6	1.994	2.896	11.0	20.8	5 21	18 8.93	-40 14.1	2.096	2.979	11.4	18.8
5 31	17 55.90	-10 18.6	1.925	2.885	7.9	20.6	5 31	18 0.50	-41 9.5	2.023	2.964	8.9	18.6
6 10	17 47.81	-10 33.9	1.881	2.874	5.2	20.4	6 10	17 49.86	-41 51.5	1.976	2.949	6.9	18.4
6 20	17 38.95	-10 59.8	1.863	2.862	4.6	20.3	6 20	17 38.01	-42 15.5	1.955	2.934	6.5	18.4
6 30	17 30.23	-11 35.7	1.873	2.851	6.9	20.4	6 30	17 26.27	-42 19.7	1.960	2.918	8.2	18.5
7 10	17 22.57	-12 20.2	1.908	2.839	10.0	20.6	7 10	17 15.96	-42 5.8	1.990	2.902	10.8	18.6
7 20	17 16.68	-13 11.2	1.966	2.828	13.1	20.8	7 20	17 8.09	-41 38.0	2.043	2.885	13.5	18.7
457587	2009 AV ₂₇	6 16.8 181°40		2.4°/16.8 17			311169	2004 TD ₂₃₈	6 16.8 283°07		2.2°/16.7 17		
5 11	18 12.51	-16 51.8	1.650	2.486	16.1	21.8	5 11	18 9.84	-19 23.9	1.404	2.258	17.4	21.2
5 21	18 7.22	-16 56.4	1.572	2.487	12.5	21.6	5 21	18 5.92	-19 7.7	1.312	2.238	13.7	20.9
5 31	17 59.21	-17 6.7	1.515	2.488	8.4	21.4	5 31	17 58.84	-18 53.7	1.239	2.218	9.2	20.6
6 10	17 49.22	-17 22.6	1.482	2.488	4.1	21.1	6 10	17 49.26	-18 42.3	1.189	2.197	4.3	20.3
6 20	17 38.30	-17 43.1	1.476	2.487	2.8	21.0	6 20	17 38.28	-18 33.9	1.163	2.176	2.9	20.1
6 30	17 27.72	-18 7.4	1.496	2.486	6.8	21.3	6 30	17 27.42	-18 29.5	1.162	2.155	7.8	20.3
7 10	17 18.69	-18 34.8	1.541	2.485	11.1	21.5	7 10	17 18.20	-18 30.3	1.184	2.135	13.0	20.6
7 20	17 12.07	-19 4.9	1.609	2.483	14.9	21.7	7 20	17 11.74	-18 37.1	1.226	2.114	17.7	20.8
103148	1999 XQ ₂₁₃	6 16.8 261°35		2.8°/16.6 18			64445	2001 VS ₂₆	6 16.8 340°32		0.8°/16.9 18		
5 11	18 9.79	-17 47.5	1.697	2.538	15.5	20.1	5 11	18 9.28	-24 42.3	1.616	2.464	15.8	19.4
5 21	18 5.22	-17 23.7	1.604	2.522	12.2	19.9	5 21	18 4.94	-24 53.1	1.539	2.462	12.2	19.1
5 31	17 57.99	-17 2.4	1.532	2.506	8.2	19.6	5 31	17 57.82	-25 2.8	1.482	2.460	8.0	18.9
6 10	17 48.76	-16 44.5	1.485	2.490	4.2	19.3	6 10	17 48.68	-25 9.7	1.450	2.459	3.4	18.6
6 20	17 38.49	-16 31.0	1.463	2.474	3.2	19.2	6 20	17 38.62	-25 12.3	1.443	2.458	1.7	18.5
6 30	17 28.41	-16 23.1	1.468	2.457	7.1	19.4	6 30	17 28.93	-25 10.5	1.462	2.456	6.4	18.8
7 10	17 19.71	-16 21.7	1.497	2.440	11.4	19.6	7 10	17 20.86	-25 5.8	1.505	2.455	10.8	19.0
7 20	17 13.31	-16 27.3	1.548	2.422	15.4	19.8	7 20	17 15.27	-25 0.2	1.570	2.455	14.6	19.3
388684	2007 UN ₈₂	6 16.8 279°58		0°1/16.8 16			302802	2003 AG ₁₈	6 16.8 83°03		5°0/17.4 17		
5 11	18 7.78	-23 57.8	1.997	2.835	13.6	21.6	5 11	18 13.25	-37 36.7	2.255	3.062	13.3	21.0
5 21	18 3.26	-23 55.7	1.910	2.829	10.5	21.4	5 21	18 7.25	-38 14.6	2.196	3.085	10.7	20.8
5 31	17 56.47	-23 52.3	1.846	2.823	6.9	21.2	5 31	17 58.90	-38 43.0	2.160	3.108	7.9	20.7
6 10	17 48.04	-23 46.8	1.807	2.816	2.9	20.9	6 10	17 48.99	-38 58.4	2.148	3.131	5.6	20.6
6 20	17 38.86	-23 38.8	1.795	2.810	1.3	20.8	6 20	17 38.52	-38 58.6	2.164	3.154	5.1	20.6
6 30	17 29.95	-23 28.6	1.810	2.804	5.5	21.1	6 30	17 28.61	-38 44.0	2.207	3.176	6.7	20.7
7 10	17 22.31	-23 17.7	1.851	2.797	9.4	21.3	7 10	17 20.23	-38 17.5	2.276	3.198	9.1	20.9
7 20	17 16.68	-23 7.6	1.915	2.791	12.8	21.5	7 20	17 14.06	-37 42.9	2.368	3.220	11.5	21.1
489393	2006 UG ₃₃₄	6 16.8 298°47		3°4/16.4 17			141988	2002 PB ₁₃₉	6 16.8 257°70		2°1/16.6 18		
5 11	18 7.86	-18 5.4	1.456	2.311	16.9	22.2	5 11	18 11.62	-18 51.1	2.014	2.842	13.9	21.0
5 21	18 4.09	-17 24.5	1.370	2.295	13.3	22.0	5 21	18 6.35	-18 30.7	1.906	2.817	10.9	20.7
5 31	17 57.42	-16 44.8	1.304	2.280	9.0	21.7	5 31	17 58.64	-18 11.3	1.819	2.791	7.3	20.5
6 10	17 48.57	-16 8.2	1.260	2.265	4.8	21.4	6 10	17 49.05	-17 53.3	1.759	2.764	3.6	20.2
6 20	17 38.60	-15 36.9	1.241	2.251	3.9	21.3	6 20	17 38.42	-17 37.4	1.725	2.737	2.6	20.0
6 30	17 28.89	-15 13.5	1.247	2.236	8.0	21.5	6 30	17 27.83	-17 24.4	1.720	2.708	6.3	20.2
7 10	17 20.78	-14 59.8	1.275	2.222	12.6	21.7	7 10	17 18.38	-17 15.8	1.741	2.679	10.4	20.4
7 20	17 15.22	-14 56.6	1.324	2.208	16.9	21.9	7 20	17 10.94	-17 12.5	1.785	2.649	14.2	20.6
372774	2010 DO ₂₀	6 16.8 165°06		8°6/14.3 17			131550	2001 VX ₂₁	6 16.8 114°98		2°8/16.9 18		
5 11	18 9.49	+ 2 4.0	2.595	3.356	12.9	21.6	5 11	18 14.56	-27 58.4	1.462	2.307	17.4	20.1
5 21	18 3.74	+ 3 37.9	2.525	3.362	11.2	21.4	5 21	18 9.30	-28 36.6	1.396	2.315	13.5	19.8
5 31	17 56.36	+ 5 0.5	2.479	3.368	9.7	21.3	5 31	18 0.80	-29 11.9	1.349	2.324	9.1	19.6
6 10	17 47.89	+ 6 7.6	2.458	3.374	8.7	21.3	6 10	17 49.95	-29 40.0	1.326	2.332	4.6	19.3
6 20	17 38.97	+ 6 55.7	2.464	3.378	8.8	21.3	6 20	17 38.06	-29 57.4	1.328	2.339	3.3	19.3
6 30	17 30.33	+ 7 23.1	2.495	3.382	9.8	21.4	6 30	17 26.74	-30 3.2	1.356	2.347	7.3	19.5
7 10	17 22.64	+ 7 30.1	2.551	3.385	11.4	21.5	7 10	17 17.43	-29 59.3	1.408	2.354	11.7	19.8
7 20	17 16.42	+ 7 19.0	2.628	3.387	13.0	21.6	7 20	17 11.08	-29 49.7	1.481	2.361	15.6	20.1
182814	2002 AV ₁₄₇	6 16.8 97°91		1°5/16.9 17			288180	2003 WL ₁₉₂	6 16.8 217°39		2°3/16.9 17		
5 11	18 8.21	-27 40.4	2.356	3.184	12.1	21.0	5 11	18 9.99	-29 23.4	2.095	2.924	13.4	21.4
5 21	18 3.16	-27 52.7	2.283	3.195	9.4	20.8	5 21	18 4.97	-29 42.3	2.010	2.921	10.4	21.2
5 31	17 56.16	-28 1.8	2.234	3.206	6.2	20.7	5 31	17 57.61	-29 57.2	1.948	2.918	7.1	21.0
6 10	17 47.85	-28 6.3	2.210	3.216	2.9	20.5	6 10	17 48.55	-30 5.5	1.911	2.915	3.7	20.8
6 20	17 38.99	-28 5.2	2.214	3.227	1.9	20.4	6 20	17 38.71	-30 5.6	1.901	2.911	2.6	20.7
6 30	17 30.50	-27 58.7	2.247	3.237	4.9	20.6	6 30	17 29.17	-29 57.3	1.918	2.907	5.7	20.9
7 10	17 23.19	-27 48.0	2.306	3.248	8.0	20.8	7 10	17 20.95	-29 42.5	1.962	2.903	9.2	21.1
7 20	17 17.66	-27 35.2	2.389	3.258	10.8	21.0	7 20	17 14.81	-29 23.6	2.029	2.899	12.4	21.3
286434	2002 AM ₁₉	6 16.8 126°54		0°3/16.8 17			521494	2015 OB ₉₅	6 16.8 269°36		3°6/17.5 18		
5 11	18 13.98	-22 19.4	1.632	2.471	16.1	21.7	5 11	18 9.99	-35 45.7	2.479	3.290	12.1	21.7
5 21	18 8.25	-22 23.7	1.566	2.484	12.4	21.5	5 21	18 4.74	-35 46.4	2.381	3.276	9.7	21.5
5 31	17 59.78	-22 28.4	1.520	2.496	8.1	21.3	5 31	17 57.33	-35 38.4	2.305	3.263	7.0	21.3
6 10	17 49.41	-22 32.2	1.499	2.508	3.3	21.0	6 10	17 48.40	-35 19.2	2.256	3.249	4.5	21.1
6 20	17 38.28	-22 34.1	1.505	2.520	1.6	20.9	6 20	17 38.78	-34 47.9	2.233	3.234	3.7	21.0
6 30	17 27.70	-22 34.3	1.537	2.530	6.3	21.2	6 30	17 29.46	-34 5.3	2.239	3.220	5.7	21.1
7 10	17 18.87	-22 33.8	1.595	2.541	10.6	21.5	7 10	17 21.36	-33 14.1	2.272	3.206	8.5	21.3
7 20	17 12.57	-22 34.3	1.674	2.550	14.3	21.8	7 20	17 15.16	-32 18.1	2.329	3.191	11.3	21.5
41959	2000 XV ₂₉	6 16.8 302°50		4°3/16.6 18			373188	2012 DR ₅₉	6 16.8 78°65		1°0/16.8 17		
5 11	18 10.02	-30 30.3	1.658	2.501	15.7								

EPHEMERIDES

6 16.8

6 16.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
156174	2001 <i>TO</i> ₁₆₄		6 16.8 112°61	1°7/16.9	18		206605	2003 <i>WY</i> ₆₄		6 16.8 261°61	1°0/16.9	18	
5 11	18 13.53	-27 25.6	2.034	2.859	13.9	20.4	5 11	18 9.68	-24 57.9	2.129	2.960	13.1	21.0
5 21	18 7.44	-27 44.2	1.969	2.879	10.7	20.2	5 21	18 4.81	-25 21.0	2.029	2.943	10.2	20.7
5 31	17 59.03	-27 59.6	1.928	2.899	7.0	20.1	5 31	17 57.61	-25 44.1	1.952	2.926	6.8	20.5
6 10	17 49.07	-28 9.5	1.912	2.918	3.3	19.9	6 10	17 48.64	-26 5.0	1.900	2.908	3.0	20.2
6 20	17 38.52	-28 12.3	1.924	2.936	2.1	19.8	6 20	17 38.72	-26 22.0	1.876	2.890	1.7	20.1
6 30	17 28.50	-28 8.2	1.964	2.954	5.5	20.1	6 30	17 28.89	-26 34.1	1.880	2.871	5.5	20.3
7 10	17 19.98	-27 59.0	2.030	2.971	9.0	20.3	7 10	17 20.20	-26 41.7	1.910	2.853	9.3	20.5
7 20	17 13.63	-27 47.0	2.121	2.988	12.1	20.5	7 20	17 13.48	-26 46.2	1.963	2.834	12.8	20.7
335166	2004 <i>XV</i> ₁₂₄		6 16.8 279°33	0°3/16.9	17		255283	2005 <i>VA</i> ₇₇		6 16.8 230°58	2°0/16.4	18	
5 11	18 11.06	-27 3.8	1.870	2.706	14.5	20.1	5 11	18 6.90	-18 39.5	2.748	3.569	10.8	20.9
5 21	18 6.08	-26 27.9	1.769	2.685	11.3	19.9	5 21	18 1.90	-18 0.5	2.651	3.559	8.4	20.8
5 31	17 58.49	-25 44.7	1.689	2.665	7.5	19.6	5 31	17 55.28	-17 21.2	2.579	3.548	5.6	20.6
6 10	17 48.98	-24 53.9	1.635	2.644	3.2	19.3	6 10	17 47.54	-16 43.0	2.533	3.537	2.9	20.4
6 20	17 38.52	-23 56.4	1.608	2.623	1.5	19.1	6 20	17 39.29	-16 6.8	2.517	3.526	2.4	20.3
6 30	17 28.31	-22 54.8	1.608	2.602	6.1	19.4	6 30	17 31.24	-15 34.4	2.530	3.514	4.9	20.5
7 10	17 19.54	-21 53.2	1.635	2.580	10.4	19.6	7 10	17 24.07	-15 6.9	2.570	3.502	7.8	20.6
7 20	17 13.04	-20 55.9	1.684	2.559	14.3	19.8	7 20	17 18.32	-14 45.4	2.635	3.489	10.4	20.8
60400	2000 <i>BA</i> ₈		6 16.8 289°23	4°8/17.1	18		474057	2016 <i>HF</i> ₈		6 16.9 28°64	1°3/16.8	17	
5 11	18 11.85	-33 21.0	1.535	2.376	16.8	18.9	5 11	18 7.94	-20 59.3	1.236	2.102	18.5	20.4
5 21	18 7.60	-33 52.8	1.446	2.360	13.5	18.6	5 21	18 4.35	-20 51.1	1.177	2.110	14.3	20.2
5 31	17 59.98	-34 17.3	1.377	2.344	9.7	18.4	5 31	17 57.60	-20 44.8	1.137	2.119	9.4	19.9
6 10	17 49.74	-34 29.3	1.330	2.328	6.0	18.1	6 10	17 48.65	-20 40.3	1.119	2.128	4.0	19.7
6 20	17 38.13	-34 24.9	1.307	2.312	5.1	18.0	6 20	17 38.80	-20 37.1	1.124	2.139	2.2	19.6
6 30	17 26.77	-34 3.3	1.310	2.296	8.2	18.2	6 30	17 29.60	-20 36.0	1.153	2.149	7.4	19.9
7 10	17 17.27	-33 27.9	1.336	2.280	12.4	18.4	7 10	17 22.40	-20 37.8	1.205	2.161	12.3	20.2
7 20	17 10.77	-32 44.3	1.383	2.265	16.4	18.6	7 20	17 18.06	-20 43.3	1.276	2.173	16.5	20.5
73901	1997 <i>FD</i> ₅		6 16.8 107°48	5°9/16.5	18		145413	2005 <i>OK</i> ₈		6 16.9 143°50	4°8/16.6	18	
5 11	18 11.18	-9 45.4	1.753	2.577	15.8	19.8	5 11	18 5.63	-9 31.8	2.242	3.061	13.0	20.4
5 21	18 5.66	-9 0.6	1.695	2.595	12.6	19.7	5 21	18 1.18	-9 5.1	2.164	3.063	10.4	20.3
5 31	17 57.86	-8 25.1	1.658	2.614	9.3	19.5	5 31	17 54.92	-8 46.1	2.109	3.064	7.7	20.1
6 10	17 48.58	-8 1.5	1.645	2.632	6.5	19.4	6 10	17 47.42	-8 36.8	2.079	3.066	5.4	20.0
6 20	17 38.77	-7 51.6	1.658	2.649	6.1	19.4	6 20	17 39.36	-8 38.1	2.075	3.067	5.0	19.9
6 30	17 29.50	-7 56.0	1.697	2.666	8.3	19.6	6 30	17 31.57	-8 50.4	2.099	3.069	6.9	20.1
7 10	17 21.72	-8 13.6	1.761	2.683	11.3	19.8	7 10	17 24.80	-9 12.9	2.148	3.070	9.5	20.2
7 20	17 16.07	-8 42.3	1.847	2.699	14.3	20.0	7 20	17 19.64	-9 44.1	2.220	3.072	12.2	20.4
502067	2015 <i>AE</i> ₁₈₂		6 16.8 70°25	0°6/16.8	17		381131	2007 <i>EH</i> ₃₂		6 16.9 325°05	8°4/16.6	17	
5 11	18 10.98	-21 0.8	1.617	2.461	16.0	21.3	5 11	18 6.03	-4 46.0	1.583	2.410	17.1	20.5
5 21	18 5.89	-21 13.7	1.559	2.481	12.2	21.1	5 21	18 2.27	-4 0.3	1.507	2.404	14.2	20.3
5 31	17 58.21	-21 28.8	1.523	2.500	8.0	20.9	5 31	17 56.02	-3 28.6	1.452	2.398	11.2	20.1
6 10	17 48.77	-21 44.6	1.510	2.519	3.3	20.6	6 10	17 47.98	-3 15.4	1.418	2.392	8.9	20.0
6 20	17 38.68	-21 59.9	1.524	2.538	1.6	20.5	6 20	17 39.08	-3 23.2	1.408	2.387	8.5	19.9
6 30	17 29.18	-22 13.9	1.564	2.558	6.1	20.9	6 30	17 30.47	-3 52.7	1.421	2.382	10.4	20.0
7 10	17 21.36	-22 27.2	1.629	2.577	10.3	21.2	7 10	17 23.24	-4 41.5	1.458	2.377	13.4	20.2
7 20	17 15.94	-22 40.5	1.716	2.596	13.8	21.4	7 20	17 18.19	-5 45.8	1.514	2.373	16.5	20.4
291834	2006 <i>LQ</i> ₄		6 16.8 353°82	7°6/17.5	17		112601	2002 <i>PN</i> ₆₀		6 16.9 279°49	0°3/16.8	18	
5 11	18 0.99	-8 58.2	0.968	1.848	21.4	19.7	5 11	18 9.99	-22 4.4	1.603	2.450	16.0	19.6
5 21	17 59.69	-8 41.7	0.905	1.839	17.4	19.4	5 21	18 5.74	-22 14.0	1.509	2.432	12.5	19.4
5 31	17 54.99	-8 44.2	0.859	1.833	12.9	19.1	5 31	17 58.58	-22 25.4	1.436	2.414	8.2	19.1
6 10	17 47.70	-9 10.0	0.830	1.828	8.9	18.9	6 10	17 49.16	-22 37.2	1.386	2.395	3.5	18.7
6 20	17 39.11	-10 0.1	0.822	1.825	7.7	18.8	6 20	17 38.50	-22 47.9	1.362	2.377	1.6	18.6
6 30	17 30.92	-11 12.0	0.834	1.823	10.8	19.0	6 30	17 27.95	-22 56.9	1.364	2.359	6.7	18.8
7 10	17 24.76	-12 39.8	0.865	1.824	15.4	19.2	7 10	17 18.89	-23 4.9	1.390	2.340	11.5	19.1
7 20	17 21.71	-14 16.4	0.914	1.826	19.9	19.5	7 20	17 12.34	-23 13.0	1.438	2.321	15.8	19.3
489717	2007 <i>VA</i> ₂₄₃		6 16.8 142°80	1°6/16.8	17		384521	2010 <i>DT</i> ₆		6 16.9 202°88	2°7/16.6	18	
5 11	18 12.37	-19 35.1	1.703	2.540	15.6	22.5	5 11	18 8.79	-15 7.2	2.524	3.341	11.7	22.3
5 21	18 6.95	-19 28.9	1.631	2.548	12.1	22.3	5 21	18 3.48	-14 50.5	2.432	3.336	9.2	22.2
5 31	17 58.93	-19 25.0	1.581	2.556	7.9	22.1	5 31	17 56.38	-14 37.4	2.364	3.330	6.3	22.0
6 10	17 49.11	-19 23.1	1.556	2.563	3.6	21.8	6 10	17 48.03	-14 28.5	2.323	3.323	3.6	21.8
6 20	17 38.52	-19 23.0	1.557	2.570	2.2	21.8	6 20	17 39.08	-14 24.5	2.310	3.316	3.0	21.7
6 30	17 28.40	-19 24.8	1.584	2.576	6.4	22.0	6 30	17 30.33	-14 25.7	2.325	3.308	5.4	21.9
7 10	17 19.85	-19 29.3	1.638	2.582	10.5	22.3	7 10	17 22.52	-14 32.3	2.369	3.299	8.4	22.0
7 20	17 13.66	-19 37.1	1.713	2.587	14.2	22.5	7 20	17 16.25	-14 44.2	2.436	3.290	11.2	22.2
433981	1999 <i>VP</i> ₁₄₁		6 16.8 274°57	2°8/16.9	17		11185	1998 <i>HS</i> ₁₀₀		6 16.9 162°01	1°3/16.8	18	
5 11	18 10.18	-29 14.3	1.877	2.712	14.4	21.2	5 11	18 6.64	-19 35.8	2.449	3.277	11.7	18.6
5 21	18 5.44	-29 47.8	1.795	2.709	11.3	21.0	5 21	18 1.88	-19 29.1	2.368	3.280	9.0	18.5
5 31	17 58.09	-30 18.1	1.735	2.706	7.7	20.8	5 31	17 55.34	-19 23.9	2.309	3.282	5.9	18.3
6 10	17 48.82	-30 41.7	1.700	2.703	4.1	20.6	6 10	17 47.59	-19 20.1	2.277	3.284	2.7	18.1
6 20	17 38.63	-30 56.2	1.691	2.700	3.1	20.5	6 20	17 39.30	-19 17.7	2.273	3.286	1.7	18.0
6 30	17 28.73	-31 0.5	1.709	2.697	6.3	20.7	6 30	17 31.27	-19 17.1	2.298	3.288	4.8	18.2
7 10	17 20.30	-30 56.3	1.752	2.694	10.1	20.9	7 10	17 24.25	-19 18.5	2.349	3.289	8.0	18.4
7 20	17 14.18	-30 46.1	1.817	2.691	13.5	21.1	7 20	17 18.80	-19 22.6	2.425	3.291	10.8	18.6
511998	2015 <i>KT</i> ₁₃₃		6 16.8 353°51	0°1/16.9	18		29708	1998 <i>YQ</i> ₁					

EPHEMERIDES

6 16.9

6 16.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
72590	2001 <i>FF</i> ₅	6 16.9 168°42'		6°3/17.3 18			215522	2002 <i>VZ</i> ₅₆	6 16.9 253°36'		3°2/16.4 18		
5 11	18 14.40	-40 11.4	2.128	2.931	14.1	19.9	5 11	18 9.39	-17 38.8	1.715	2.556	15.4	20.2
5 21	18 8.68	-40 57.8	2.050	2.933	11.6	19.7	5 21	18 4.79	-16 57.9	1.630	2.548	12.0	19.9
5 31	18 0.18	-41 33.7	1.994	2.934	9.0	19.5	5 31	17 57.65	-16 18.5	1.566	2.539	8.2	19.7
6 10	17 49.70	-41 54.1	1.963	2.936	6.9	19.4	6 10	17 48.67	-15 42.2	1.526	2.530	4.4	19.4
6 20	17 38.31	-41 55.8	1.957	2.937	6.4	19.4	6 20	17 38.82	-15 11.0	1.513	2.521	3.7	19.4
6 30	17 27.34	-41 38.3	1.977	2.938	7.9	19.5	6 30	17 29.28	-14 46.9	1.525	2.512	7.2	19.5
7 10	17 18.00	-41 4.6	2.023	2.939	10.4	19.6	7 10	17 21.16	-14 31.5	1.563	2.503	11.2	19.8
7 20	17 11.15	-40 19.8	2.091	2.939	13.0	19.8	7 20	17 15.27	-14 25.4	1.622	2.493	14.9	20.0
500842	2013 <i>HE</i> ₄₉	6 16.9 82°39'		1°2/16.7 17			505566	2014 <i>AX</i> ₅₁	6 16.9 209°12'		10°5/18.3 18		
5 11	18 12.94	-22 0.8	1.339	2.192	18.1	22.0	5 11	18 22.64	-52 33.5	2.126	2.875	15.8	21.5
5 21	18 7.88	-21 40.5	1.280	2.206	14.0	21.8	5 21	18 15.85	-53 33.1	2.049	2.871	14.0	21.3
5 31	17 59.73	-21 19.9	1.241	2.220	9.1	21.5	5 31	18 5.28	-54 15.0	1.991	2.868	12.2	21.2
6 10	17 49.48	-20 59.1	1.225	2.234	3.9	21.2	6 10	17 51.93	-54 31.3	1.954	2.864	10.9	21.1
6 20	17 38.46	-20 38.4	1.234	2.248	2.1	21.2	6 20	17 37.34	-54 17.2	1.940	2.859	10.6	21.1
6 30	17 28.18	-20 19.5	1.268	2.262	7.2	21.5	6 30	17 23.45	-53 32.0	1.950	2.854	11.3	21.1
7 10	17 19.96	-20 4.4	1.325	2.276	11.9	21.8	7 10	17 11.97	-52 20.7	1.983	2.849	12.8	21.2
7 20	17 14.58	-19 54.9	1.403	2.289	16.0	22.1	7 20	17 3.96	-50 51.3	2.037	2.844	14.7	21.3
383226	2006 <i>AJ</i> ₈₄	6 16.9 153°37'		2°1/16.8 15			467621	2008 <i>DZ</i> ₃₁	6 16.9 144°65'		4°0/16.8 17		
5 11	18 13.27	-27 40.2	2.345	3.163	12.5	22.2	5 11	18 10.48	-13 15.7	1.756	2.587	15.5	21.3
5 21	18 7.19	-28 22.1	2.267	3.172	9.7	22.0	5 21	18 5.40	-13 3.3	1.683	2.593	12.2	21.1
5 31	17 58.93	-29 2.1	2.212	3.181	6.5	21.8	5 31	17 57.91	-12 58.3	1.632	2.599	8.5	20.9
6 10	17 49.12	-29 37.2	2.185	3.189	3.3	21.6	6 10	17 48.74	-13 1.9	1.605	2.604	5.0	20.7
6 20	17 38.59	-30 5.1	2.186	3.196	2.4	21.6	6 20	17 38.82	-13 14.4	1.604	2.609	4.2	20.7
6 30	17 28.35	-30 24.6	2.216	3.202	5.3	21.8	6 30	17 29.29	-13 35.4	1.630	2.614	7.1	20.9
7 10	17 19.33	-30 36.3	2.273	3.208	8.5	22.0	7 10	17 21.18	-14 4.0	1.681	2.618	10.8	21.1
7 20	17 12.24	-30 42.2	2.355	3.214	11.3	22.2	7 20	17 15.23	-14 38.7	1.754	2.622	14.2	21.3
129021	2004 <i>TS</i> ₃₃₀	6 16.9 280°07'		1°2/16.9 17			232855	2004 <i>TL</i> ₂₀₁	6 16.9 213°60'		0°5/16.8 18		
5 11	18 9.61	-25 53.8	1.826	2.666	14.6	20.2	5 11	18 9.64	-22 59.3	2.083	2.915	13.3	21.2
5 21	18 5.16	-26 7.7	1.729	2.648	11.4	19.9	5 21	18 4.59	-22 46.1	1.996	2.911	10.3	21.0
5 31	17 58.04	-26 20.1	1.654	2.630	7.6	19.6	5 31	17 57.32	-22 31.5	1.931	2.906	6.7	20.8
6 10	17 48.89	-26 28.9	1.603	2.611	3.4	19.3	6 10	17 48.48	-22 15.4	1.892	2.901	2.8	20.5
6 20	17 38.65	-26 32.3	1.579	2.593	1.9	19.2	6 20	17 38.93	-21 57.6	1.881	2.895	1.4	20.4
6 30	17 28.55	-26 29.8	1.581	2.574	6.2	19.4	6 30	17 29.68	-21 39.3	1.897	2.890	5.4	20.6
7 10	17 19.81	-26 22.9	1.608	2.555	10.4	19.6	7 10	17 21.67	-21 21.8	1.940	2.884	9.2	20.9
7 20	17 13.36	-26 13.7	1.658	2.536	14.3	19.8	7 20	17 15.62	-21 6.9	2.006	2.877	12.5	21.1
270503	2002 <i>EA</i> ₁₆₁	6 16.9 58°08'		1°1/16.8 17			263434	2008 <i>DK</i> ₇₀	6 16.9 20°89'		4°7/17.0 17		
5 11	18 8.73	-21 19.7	1.704	2.549	15.2	20.6	5 11	18 7.80	-12 26.1	1.354	2.206	18.1	20.0
5 21	18 4.18	-21 5.7	1.633	2.555	11.7	20.4	5 21	18 4.00	-12 19.0	1.288	2.209	14.3	19.8
5 31	17 57.14	-20 52.2	1.585	2.562	7.7	20.2	5 31	17 57.33	-12 23.1	1.241	2.212	10.1	19.5
6 10	17 48.40	-20 39.0	1.560	2.569	3.3	19.9	6 10	17 48.58	-12 39.7	1.216	2.216	6.0	19.3
6 20	17 38.94	-20 26.5	1.562	2.576	1.9	19.9	6 20	17 38.89	-13 8.8	1.214	2.220	5.0	19.3
6 30	17 29.95	-20 15.5	1.589	2.583	6.1	20.1	6 30	17 29.65	-13 49.0	1.237	2.225	8.3	19.5
7 10	17 22.49	-20 7.2	1.642	2.590	10.2	20.4	7 10	17 22.13	-14 37.8	1.283	2.231	12.5	19.7
7 20	17 17.27	-20 2.8	1.717	2.597	13.8	20.6	7 20	17 17.20	-15 32.6	1.350	2.237	16.4	20.0
347031	2010 <i>EZ</i> ₇₆	6 16.9 12°44'		2°5/16.7 17			442056	2010 <i>RB</i> ₆₁	6 16.9 280°79'		5°7/15.9 17		
5 11	18 7.23	-17 24.0	1.925	2.763	14.0	21.2	5 11	18 4.40	-7 52.9	2.350	3.164	12.6	21.5
5 21	18 2.79	-17 6.1	1.846	2.763	10.9	21.0	5 21	18 0.26	-7 4.3	2.260	3.152	10.3	21.3
5 31	17 56.15	-16 51.5	1.790	2.763	7.3	20.8	5 31	17 54.37	-6 22.7	2.192	3.139	7.9	21.1
6 10	17 47.98	-16 40.7	1.758	2.763	3.8	20.6	6 10	17 47.24	-5 50.8	2.149	3.126	6.1	21.0
6 20	17 39.13	-16 34.3	1.753	2.764	2.9	20.5	6 20	17 39.51	-5 30.8	2.133	3.114	5.9	21.0
6 30	17 30.60	-16 33.1	1.775	2.764	6.1	20.7	6 30	17 31.95	-5 24.1	2.143	3.101	7.6	21.1
7 10	17 23.33	-16 37.2	1.822	2.764	9.8	20.9	7 10	17 25.29	-5 30.6	2.178	3.089	10.0	21.2
7 20	17 18.01	-16 46.8	1.892	2.765	13.1	21.2	7 20	17 20.14	-5 49.2	2.236	3.076	12.5	21.3
308504	2005 <i>TB</i> ₁₈₁	6 16.9 285°25'		1°2/16.8 18			445379	2010 <i>RH</i> ₆₁	6 16.9 296°80'		2°4/16.9 15		
5 11	18 6.09	-20 15.4	2.255	3.088	12.4	21.5	5 11	18 7.66	-29 21.9	2.169	3.001	12.9	21.9
5 21	18 1.66	-20 6.3	2.170	3.086	9.6	21.3	5 21	18 3.32	-29 41.5	2.068	2.981	10.1	21.7
5 31	17 55.31	-19 58.2	2.108	3.083	6.3	21.0	5 31	17 56.67	-29 57.6	1.990	2.960	6.9	21.5
6 10	17 47.61	-19 51.2	2.072	3.080	2.8	20.8	6 10	17 48.29	-30 7.8	1.936	2.940	3.6	21.2
6 20	17 39.30	-19 45.3	2.063	3.077	1.7	20.7	6 20	17 39.00	-30 10.3	1.910	2.920	2.6	21.1
6 30	17 31.24	-19 41.0	2.083	3.074	5.1	21.0	6 30	17 29.83	-30 4.6	1.911	2.900	5.7	21.3
7 10	17 24.26	-19 39.0	2.128	3.071	8.5	21.2	7 10	17 21.82	-29 52.1	1.937	2.880	9.2	21.4
7 20	17 18.97	-19 39.9	2.197	3.068	11.6	21.4	7 20	17 15.76	-29 35.0	1.987	2.860	12.5	21.6
389200	2009 <i>CF</i> ₅₈	6 16.9 98°41'		3°1/16.6 17			335039	2004 <i>RZ</i> ₂₇	6 16.9 334°36'		6°6/17.4 15		
5 11	18 7.56	-15 2.8	2.199	3.025	12.9	22.3	5 11	18 7.55	-36 3.7	1.322	2.175	18.3	20.8
5 21	18 2.60	-14 40.6	2.132	3.040	10.1	22.1	5 21	18 4.81	-36 41.6	1.241	2.160	14.9	20.6
5 31	17 55.79	-14 22.8	2.088	3.055	6.9	21.9	5 31	17 58.43	-37 8.6	1.179	2.145	11.1	20.3
6 10	17 47.76	-14 10.3	2.069	3.070	3.9	21.8	6 10	17 49.22	-37 18.8	1.138	2.132	7.7	20.1
6 20	17 39.26	-14 3.7	2.078	3.084	3.3	21.8	6 20	17 38.56	-37 7.5	1.119	2.119	6.7	20.0
6 30	17 31.15	-14 3.6	2.115	3.098	5.8	21.9	6 30	17 28.29	-36 34.1	1.123	2.107	9.5	20.1
7 10	17 24.18	-14 10.0	2.178	3.112	8.8	22.2	7 10	17 20.16	-35 43.3	1.148	2.097	13.5	20.3
7 20	17 18.93	-14 22.3	2.265	3.126	11.6	22.4	7 20	17 15.35	-34 42.2	1.193	2.088	17.6	20.5
301242	2009 <i>BS</i> ₄₃	6 16.9 168°55'		1°2/16.8 18			100374	1995 <i>UX</i> ₆₉	6 16.9 277°81'		0°4/16.9 18		

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
137914	2000 BU ₇		6 16.9	77°50	4°0/17.3	17	497663	2006 RF ₇₉		6 16.9	170°95	0°9/16.8	17
5 11	18 14.62	-32 16.4	1.530	2.368	17.0	19.8	5 11	18 11.94	-21 7.9	1.912	2.744	14.4	22.3
5 21	18 9.14	-32 40.0	1.472	2.385	13.4	19.6	5 21	18 6.48	-21 5.5	1.833	2.747	11.1	22.1
5 31	18 0.55	-32 55.5	1.434	2.403	9.3	19.4	5 31	17 58.62	-21 3.9	1.776	2.750	7.3	21.9
6 10	17 49.85	-32 58.7	1.420	2.420	5.3	19.2	6 10	17 49.06	-21 2.7	1.744	2.752	3.1	21.6
6 20	17 38.38	-32 47.7	1.430	2.437	4.2	19.2	6 20	17 38.76	-21 1.2	1.740	2.754	1.6	21.5
6 30	17 27.68	-32 23.3	1.467	2.454	7.3	19.4	6 30	17 28.81	-20 59.8	1.763	2.755	5.8	21.8
7 10	17 19.06	-31 49.6	1.527	2.471	11.1	19.7	7 10	17 20.26	-20 59.4	1.812	2.756	9.7	22.0
7 20	17 13.32	-31 11.5	1.610	2.488	14.7	19.9	7 20	17 13.86	-21 0.9	1.885	2.756	13.2	22.2
38822	2000 RY ₈₃		6 16.9	25°73	4°1/17.4	18	160201	2002 AP ₁₅₁		6 16.9	357°80	10°0/18.8	18
5 11	18 12.03	-32 33.0	1.248	2.104	19.1	18.4	5 11	18 11.80	-45 3.9	1.363	2.188	19.4	18.8
5 21	18 7.92	-32 41.3	1.184	2.107	15.1	18.1	5 21	18 8.24	-45 42.4	1.295	2.185	16.5	18.5
5 31	18 0.16	-32 39.1	1.138	2.111	10.5	17.9	5 31	18 0.64	-46 0.6	1.245	2.182	13.5	18.3
6 10	17 49.80	-32 22.4	1.113	2.116	5.9	17.6	6 10	17 50.08	-45 51.0	1.214	2.181	10.9	18.2
6 20	17 38.38	-31 49.5	1.111	2.121	4.4	17.5	6 20	17 38.31	-45 9.0	1.204	2.180	10.0	18.1
6 30	17 27.73	-31 2.4	1.134	2.126	8.1	17.8	6 30	17 27.39	-43 56.0	1.217	2.181	11.4	18.2
7 10	17 19.43	-30 6.9	1.179	2.132	12.8	18.1	7 10	17 19.13	-42 20.0	1.252	2.182	14.2	18.4
7 20	17 14.44	-29 9.6	1.243	2.138	17.0	18.3	7 20	17 14.53	-40 31.4	1.306	2.185	17.4	18.6
512120	2015 OC ₈₅		6 16.9	309°88	0°2/16.9	18	384889	2012 TB ₉		6 16.9	271°07	0°4/16.8	18
5 11	18 6.31	-22 13.1	2.261	3.095	12.4	21.8	5 11	18 8.49	-22 33.4	1.937	2.776	13.9	21.2
5 21	18 1.90	-22 20.5	2.176	3.092	9.5	21.6	5 21	18 3.99	-22 28.8	1.845	2.764	10.8	21.0
5 31	17 55.51	-22 28.4	2.114	3.089	6.2	21.4	5 31	17 57.11	-22 24.0	1.776	2.752	7.1	20.8
6 10	17 47.74	-22 36.2	2.078	3.086	2.6	21.1	6 10	17 48.49	-22 18.2	1.731	2.740	3.0	20.5
6 20	17 39.31	-22 43.1	2.069	3.084	1.2	21.0	6 20	17 39.01	-22 11.2	1.713	2.728	1.4	20.3
6 30	17 31.12	-22 49.0	2.088	3.081	4.9	21.3	6 30	17 29.74	-22 3.3	1.722	2.716	5.7	20.6
7 10	17 24.01	-22 54.2	2.133	3.078	8.4	21.5	7 10	17 21.74	-21 55.8	1.757	2.703	9.8	20.8
7 20	17 18.62	-22 59.6	2.203	3.076	11.5	21.7	7 20	17 15.80	-21 50.1	1.814	2.691	13.4	21.0
141926	2002 PV ₈₆		6 16.9	271°51	1°6/16.8	18	322211	2011 AE ₃₃		6 16.9	230°36	0°5/16.9	17
5 11	18 10.36	-19 36.7	1.693	2.535	15.5	20.3	5 11	18 11.89	-24 1.6	1.910	2.743	14.3	21.9
5 21	18 5.88	-19 33.0	1.594	2.514	12.1	20.0	5 21	18 6.70	-24 14.1	1.818	2.733	11.1	21.7
5 31	17 58.62	-19 32.0	1.516	2.492	8.1	19.8	5 31	17 58.95	-24 26.4	1.748	2.722	7.3	21.4
6 10	17 49.20	-19 33.4	1.463	2.471	3.7	19.4	6 10	17 49.28	-24 36.6	1.703	2.711	3.1	21.1
6 20	17 38.59	-19 36.7	1.435	2.448	2.2	19.3	6 20	17 38.64	-24 43.2	1.685	2.700	1.5	21.0
6 30	17 28.04	-19 42.2	1.433	2.426	6.8	19.5	6 30	17 28.20	-24 46.0	1.695	2.688	5.9	21.3
7 10	17 18.85	-19 50.1	1.457	2.403	11.4	19.7	7 10	17 19.11	-24 45.8	1.731	2.675	10.0	21.5
7 20	17 12.01	-20 1.4	1.502	2.380	15.5	19.9	7 20	17 12.23	-24 44.3	1.789	2.662	13.7	21.7
77456	2001 HQ ₁₀		6 16.9	345°12	1°7/16.6	18	480834	1999 VH ₄₁		6 16.9	260°32	5°0/16.2	18
5 11	18 6.00	-21 42.8	1.565	2.420	15.9	18.7	5 11	18 12.82	-36 19.3	2.657	3.458	11.7	21.6
5 21	18 2.42	-21 6.6	1.486	2.413	12.3	18.4	5 21	18 7.21	-37 32.7	2.555	3.440	9.5	21.4
5 31	17 56.20	-20 28.6	1.428	2.407	8.1	18.1	5 31	17 59.24	-38 41.9	2.477	3.423	7.2	21.3
6 10	17 48.10	-19 50.1	1.393	2.402	3.6	17.9	6 10	17 49.43	-39 42.4	2.427	3.405	5.4	21.1
6 20	17 39.15	-19 12.6	1.384	2.397	2.4	17.8	6 20	17 38.54	-40 30.1	2.404	3.387	5.2	21.1
6 30	17 30.60	-18 38.6	1.400	2.394	6.7	18.0	6 30	17 27.59	-41 2.6	2.409	3.369	6.8	21.2
7 10	17 23.59	-18 10.5	1.440	2.390	11.1	18.3	7 10	17 17.62	-41 20.1	2.442	3.350	9.1	21.3
7 20	17 18.94	-17 49.9	1.501	2.388	15.0	18.5	7 20	17 9.51	-41 25.1	2.498	3.331	11.6	21.4
168439	1998 VS ₅₂		6 16.9	273°58	2°8/16.3	18	183551	2003 JU ₄		6 16.9	341°88	2°8/16.9	18
5 11	18 13.82	-26 11.6	2.097	2.921	13.6	19.8	5 11	18 7.32	-29 40.3	1.972	2.809	13.8	19.8
5 21	18 8.37	-27 30.4	1.992	2.901	10.6	19.6	5 21	18 3.17	-30 10.6	1.889	2.804	10.8	19.6
5 31	18 0.23	-28 52.9	1.910	2.880	7.2	19.3	5 31	17 56.61	-30 37.3	1.828	2.800	7.4	19.4
6 10	17 49.91	-30 14.6	1.855	2.859	3.8	19.1	6 10	17 48.28	-30 57.6	1.792	2.795	4.0	19.2
6 20	17 38.25	-31 30.2	1.829	2.837	3.2	19.0	6 20	17 39.12	-31 9.1	1.782	2.791	3.1	19.1
6 30	17 26.40	-32 35.5	1.832	2.816	6.4	19.2	6 30	17 30.22	-31 11.3	1.799	2.788	6.0	19.3
7 10	17 15.63	-33 29.0	1.861	2.794	10.2	19.3	7 10	17 22.66	-31 5.5	1.841	2.785	9.6	19.5
7 20	17 6.98	-34 11.1	1.915	2.772	13.6	19.5	7 20	17 17.22	-30 54.0	1.905	2.782	12.8	19.7
263705	2008 HL ₂₆		6 16.9	335°34	1°9/16.9	18	420217	2011 HR ₅		6 16.9	101°23	10°4/16.9	15
5 11	18 5.96	-27 9.9	1.925	2.768	13.8	20.1	5 11	18 27.82	-50 9.5	2.123	2.874	15.7	21.8
5 21	18 2.17	-27 34.9	1.838	2.758	10.8	19.9	5 21	18 19.86	-52 1.2	2.074	2.899	13.7	21.7
5 31	17 55.97	-27 58.2	1.773	2.748	7.2	19.7	5 31	18 8.00	-53 36.2	2.047	2.925	11.9	21.6
6 10	17 48.02	-28 17.3	1.733	2.739	3.5	19.4	6 10	17 53.15	-54 45.6	2.043	2.949	10.7	21.6
6 20	17 39.19	-28 30.3	1.718	2.731	2.3	19.3	6 20	17 36.89	-55 23.4	2.063	2.974	10.5	21.6
6 30	17 30.57	-28 36.5	1.730	2.723	5.8	19.5	6 30	17 21.23	-55 28.7	2.108	2.997	11.3	21.7
7 10	17 23.25	-28 36.9	1.768	2.715	9.6	19.7	7 10	17 8.00	-55 6.1	2.176	3.020	12.7	21.8
7 20	17 18.02	-28 33.1	1.827	2.709	13.1	19.9	7 20	16 58.38	-54 23.4	2.264	3.042	14.3	22.0
75362	1999 XQ ₇₃		6 16.9	189°97	0°1/16.9	18	428234	2006 WV ₁₈₂		6 16.9	151°25	2°0/16.8	17
5 11	18 12.39	-22 47.8	1.973	2.803	14.1	20.3	5 11	18 10.75	-17 36.2	1.838	2.672	14.8	21.7
5 21	18 6.85	-22 56.2	1.888	2.802	10.9	20.1	5 21	18 5.60	-17 36.5	1.763	2.678	11.5	21.5
5 31	17 58.90	-23 4.8	1.826	2.801	7.1	19.9	5 31	17 58.06	-17 41.1	1.709	2.682	7.6	21.3
6 10	17 49.20	-23 12.4	1.790	2.799	3.0	19.6	6 10	17 48.85	-17 49.8	1.681	2.687	3.7	21.0
6 20	17 38.68	-23 17.7	1.781	2.796	1.4	19.5	6 20	17 38.88	-18 2.0	1.679	2.691	2.5	20.9
6 30	17 28.45	-23 20.6	1.800	2.793	5.6	19.8	6 30	17 29.28	-18 17.4	1.704	2.695	6.1	21.2
7 10	17 19.58	-23 21.9	1.846	2.789	9.6	20.0	7 10	17 21.06	-18 35.7	1.755	2.698	10.0	21.4
7 20	17 12.83	-23 23.1	1.914	2.784	13.1	20.2	7 20	17 14.98	-18 57.0	1.829	2.701	13.5	21.6
257564	1998 UJ ₃₄		6 16.9	223°15	1°4/16.9	18	233332	2006 CS ₁₀		6 16.9	166°64	10°8/17.3	18

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
470623	2008 <i>RT</i> ₁₄₅		6 16.9 140°89	2°6/17.0	17		98490	2000 <i>UJ</i> ₁₀₈		6 16.9 283°79	0°5/16.9	18	
5 11	18 11.07	-29 40.5	1.944	2.775	14.2	21.6	5 11	18 10.61	-20 15.1	1.446	2.297	17.1	19.7
5 21	18 5.97	-30 2.4	1.867	2.779	11.1	21.4	5 21	18 6.57	-20 40.5	1.356	2.281	13.4	19.4
5 31	17 58.37	-30 19.8	1.811	2.782	7.5	21.2	5 31	17 59.36	-21 11.5	1.286	2.265	8.9	19.1
6 10	17 48.99	-30 29.9	1.781	2.785	4.0	20.9	6 10	17 49.64	-21 46.4	1.239	2.248	3.8	18.8
6 20	17 38.82	-30 30.9	1.777	2.787	2.9	20.9	6 20	17 38.50	-22 22.7	1.216	2.231	1.8	18.6
6 30	17 29.03	-30 22.7	1.801	2.790	6.0	21.1	6 30	17 27.43	-22 58.1	1.219	2.215	7.2	18.9
7 10	17 20.72	-30 7.2	1.850	2.793	9.6	21.3	7 10	17 17.96	-23 31.7	1.246	2.198	12.4	19.1
7 20	17 14.66	-29 47.4	1.922	2.795	12.9	21.5	7 20	17 11.24	-24 3.5	1.293	2.182	16.9	19.4
352469	2008 <i>AU</i> ₁₂₆		6 16.9 268°32	1°1/17.1	18		356873	2011 <i>WZ</i> ₁₁₃		6 16.9 148°15	3°2/17.1	17	
5 11	18 8.77	-27 49.9	2.185	3.015	12.9	20.9	5 11	18 6.87	-11 51.7	2.411	3.228	12.2	20.4
5 21	18 3.96	-27 38.7	2.091	3.004	10.0	20.6	5 21	18 2.10	-12 2.2	2.329	3.230	9.6	20.2
5 31	17 56.95	-27 22.8	2.020	2.993	6.6	20.4	5 31	17 55.56	-12 20.1	2.270	3.233	6.8	20.0
6 10	17 48.38	-27 1.1	1.975	2.982	3.0	20.2	6 10	17 47.78	-12 45.8	2.238	3.235	4.1	19.9
6 20	17 39.09	-26 33.4	1.957	2.970	1.6	20.0	6 20	17 39.43	-13 18.6	2.233	3.237	3.4	19.8
6 30	17 30.07	-26 0.7	1.967	2.959	5.2	20.3	6 30	17 31.29	-13 57.6	2.257	3.239	5.6	20.0
7 10	17 22.26	-25 25.5	2.003	2.948	8.9	20.5	7 10	17 24.10	-14 41.4	2.308	3.241	8.4	20.2
7 20	17 16.38	-24 50.5	2.063	2.936	12.1	20.6	7 20	17 18.46	-15 28.7	2.383	3.243	11.2	20.3
241748	2001 <i>AB</i> ₃₀		6 16.9 253°76	0°7/16.8	18		321322	2009 <i>HD</i> ₆₁		6 16.9 159°15	4°8/17.1	17	
5 11	18 8.96	-23 20.1	2.628	3.449	11.2	20.3	5 11	18 14.93	-33 16.1	1.577	2.412	16.8	21.2
5 21	18 3.86	-23 57.5	2.524	3.433	8.7	20.1	5 21	18 9.71	-33 57.5	1.504	2.414	13.4	21.0
5 31	17 56.83	-24 36.5	2.444	3.417	5.7	19.9	5 31	18 1.21	-34 31.7	1.451	2.416	9.5	20.8
6 10	17 48.35	-25 15.4	2.392	3.400	2.5	19.6	6 10	17 50.30	-34 53.4	1.421	2.418	6.0	20.6
6 20	17 39.09	-25 52.0	2.368	3.382	1.3	19.5	6 20	17 38.27	-34 58.7	1.417	2.420	5.1	20.5
6 30	17 29.85	-26 25.1	2.374	3.365	4.6	19.7	6 30	17 26.74	-34 47.1	1.437	2.421	7.9	20.7
7 10	17 21.47	-26 54.0	2.408	3.347	7.9	19.9	7 10	17 17.19	-34 21.8	1.482	2.422	11.7	20.9
7 20	17 14.64	-27 19.2	2.467	3.329	10.8	20.0	7 20	17 10.60	-33 48.2	1.549	2.423	15.4	21.1
492308	2014 <i>BB</i>		6 16.9 243°58	6°6/15.1	17		382529	2001 <i>SE</i> ₃₁₃		6 16.9 261°53	1°0/16.8	18	
5 11	18 23.48	-26 16.0	1.178	2.023	20.6	21.0	5 11	18 12.10	-20 23.0	2.215	3.038	13.0	23.7
5 21	18 18.22	-28 53.5	1.094	2.013	16.4	20.7	5 21	18 6.67	-20 24.1	2.099	3.009	10.1	23.5
5 31	18 8.19	-31 46.4	1.032	2.003	11.6	20.4	5 31	17 58.91	-20 26.7	2.006	2.978	6.8	23.2
6 10	17 53.80	-34 41.1	0.993	1.992	7.4	20.1	6 10	17 49.32	-20 30.2	1.940	2.947	3.0	22.9
6 20	17 36.39	-37 20.3	0.980	1.980	7.4	20.1	6 20	17 38.68	-20 34.0	1.901	2.915	1.7	22.7
6 30	17 18.38	-39 28.9	0.993	1.968	11.8	20.3	6 30	17 27.99	-20 38.0	1.892	2.882	5.6	22.9
7 10	17 2.57	-41 2.3	1.028	1.956	16.9	20.5	7 10	17 18.29	-20 42.6	1.909	2.848	9.6	23.1
7 20	16 51.08	-42 4.7	1.083	1.943	21.5	20.8	7 20	17 10.45	-20 48.7	1.951	2.813	13.2	23.3
233327	2006 <i>BM</i> ₂₅₁		6 16.9 217°89	1°3/16.8	18		396553	1998 <i>SW</i> ₆₈		6 16.9 290°58	3°6/15.9	18	
5 11	18 9.50	-19 54.5	2.098	2.929	13.3	21.7	5 11	18 6.07	-15 18.5	2.360	3.186	12.2	20.2
5 21	18 4.49	-19 48.3	2.009	2.923	10.3	21.5	5 21	18 1.69	-14 27.1	2.253	3.161	9.6	20.0
5 31	17 57.30	-19 43.7	1.943	2.916	6.8	21.3	5 31	17 55.42	-13 36.6	2.169	3.135	6.8	19.8
6 10	17 48.55	-19 40.4	1.902	2.909	3.1	21.0	6 10	17 47.78	-12 49.2	2.111	3.109	4.2	19.6
6 20	17 39.04	-19 38.3	1.889	2.902	1.9	20.9	6 20	17 39.42	-12 7.1	2.081	3.083	3.9	19.5
6 30	17 29.76	-19 37.7	1.903	2.894	5.5	21.2	6 30	17 31.16	-11 32.3	2.079	3.056	6.4	19.6
7 10	17 21.66	-19 39.2	1.944	2.886	9.3	21.4	7 10	17 23.82	-11 6.5	2.103	3.030	9.5	19.7
7 20	17 15.46	-19 43.5	2.009	2.878	12.6	21.6	7 20	17 18.05	-10 50.5	2.150	3.004	12.5	19.9
414157	2007 <i>XU</i> ₁₈		6 16.9 185°36	3°9/16.9	17		266581	2008 <i>HG</i> ₂₀		6 16.9 332°53	4°5/16.9	18	
5 11	18 16.54	-32 3.7	2.056	2.872	14.1	21.5	5 11	18 9.13	-34 27.4	2.182	3.004	13.2	20.6
5 21	18 10.27	-32 51.6	1.972	2.872	11.1	21.3	5 21	18 4.49	-35 13.2	2.099	3.000	10.5	20.4
5 31	18 1.28	-33 34.9	1.910	2.872	7.9	21.1	5 31	17 57.46	-35 53.0	2.038	2.997	7.7	20.2
6 10	17 50.26	-34 9.0	1.875	2.871	4.8	20.9	6 10	17 48.66	-36 23.0	2.003	2.994	5.2	20.0
6 20	17 38.25	-34 30.5	1.866	2.869	4.1	20.8	6 20	17 39.02	-36 40.4	1.993	2.990	4.6	20.0
6 30	17 26.52	-34 38.0	1.886	2.866	6.7	21.0	6 30	17 29.62	-36 44.1	2.011	2.988	6.6	20.1
7 10	17 16.28	-34 33.1	1.932	2.862	10.0	21.2	7 10	17 21.53	-36 35.7	2.054	2.985	9.5	20.3
7 20	17 8.42	-34 19.5	2.001	2.858	13.1	21.4	7 20	17 15.54	-36 18.2	2.120	2.982	12.3	20.4
5440	Terao		6 16.9 358°74	2°7/16.9	18 R		318463	2005 <i>EB</i> ₂₆		6 16.9 65°28	1°5/16.9	17	
5 11	18 5.28	-17 18.9	0.987	1.870	20.8	15.7	5 11	18 12.51	-26 17.5	1.370	2.222	17.8	21.0
5 21	18 3.14	-17 24.3	0.925	1.866	16.3	15.4	5 21	18 7.72	-26 30.2	1.311	2.236	13.8	20.8
5 31	17 57.36	-17 38.9	0.880	1.864	10.9	15.1	5 31	17 59.76	-26 40.0	1.272	2.250	9.1	20.6
6 10	17 48.80	-18 2.7	0.854	1.863	5.2	14.7	6 10	17 49.62	-26 44.2	1.256	2.264	4.0	20.3
6 20	17 38.91	-18 34.4	0.849	1.863	3.3	14.6	6 20	17 38.63	-26 41.2	1.265	2.279	2.2	20.3
6 30	17 29.52	-19 12.0	0.866	1.864	8.7	14.9	6 30	17 28.36	-26 31.6	1.298	2.293	6.9	20.6
7 10	17 22.35	-19 53.4	0.903	1.867	14.3	15.2	7 10	17 20.15	-26 17.8	1.355	2.308	11.6	20.9
7 20	17 18.51	-20 37.1	0.958	1.871	19.2	15.5	7 20	17 14.84	-26 3.0	1.434	2.322	15.5	21.2
385374	2002 <i>QM</i> ₁₁₉		6 16.9 284°09	6°7/16.9	16		362010	2008 <i>VZ</i> ₇₇		6 16.9 113°22	2°5/16.7	17	
5 11	18 6.37	- 5 19.1	1.970	2.784	14.7	21.1	5 11	18 12.75	-19 1.2	1.444	2.291	17.4	21.7
5 21	18 2.12	- 4 56.0	1.887	2.776	12.1	20.9	5 21	18 7.62	-18 36.8	1.379	2.301	13.5	21.5
5 31	17 55.78	- 4 45.3	1.824	2.768	9.4	20.7	5 31	17 59.58	-18 14.7	1.334	2.310	9.0	21.2
6 10	17 47.92	- 4 49.4	1.785	2.761	7.2	20.6	6 10	17 49.53	-17 55.7	1.313	2.320	4.3	21.0
6 20	17 39.33	- 5 9.8	1.771	2.753	6.8	20.5	6 20	17 38.67	-17 40.7	1.317	2.329	3.0	20.9
6 30	17 30.94	- 5 46.2	1.783	2.745	8.5	20.6	6 30	17 28.41	-17 30.7	1.346	2.338	7.3	21.2
7 10	17 23.65	- 6 36.8	1.820	2.738	11.2	20.8	7 10	17 20.00	-17 26.8	1.400	2.346	11.8	21.5
7 20	17 18.18	- 7 38.4	1.879	2.730	14.1	21.0	7 20	17 14.25	-17 29.6	1.474	2.354	15.7	21.8
387700	2002 <i>VE</i> ₁₂₉		6 16.9 250°35	0°6/16.8	17		260664	20					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
161067	2002 <i>KE</i> ₉		6 16.9 298°88	0°3/16.9	18		41315	1999 <i>XU</i> ₁₆₈		6 16.9 246°72	2°9/16.8	18	
5 11	18 9.39	-20 49.8	1.757	2.599	15.0	19.2	5 11	18 9.10	-31 28.5	2.718	3.533	11.1	19.7
5 21	18 5.18	-21 34.7	1.658	2.578	11.7	19.0	5 21	18 4.02	-32 7.1	2.619	3.520	8.7	19.5
5 31	17 58.24	-22 25.7	1.581	2.558	7.7	18.7	5 31	17 56.96	-32 42.4	2.545	3.507	6.1	19.3
6 10	17 49.13	-23 20.5	1.528	2.537	3.3	18.4	6 10	17 48.45	-33 11.7	2.496	3.494	3.7	19.2
6 20	17 38.76	-24 15.7	1.502	2.517	1.5	18.2	6 20	17 39.18	-33 32.7	2.476	3.480	3.1	19.1
6 30	17 28.36	-25 8.4	1.503	2.497	6.3	18.5	6 30	17 30.00	-33 44.4	2.485	3.466	5.2	19.2
7 10	17 19.21	-25 56.7	1.529	2.477	10.8	18.7	7 10	17 21.77	-33 47.6	2.521	3.452	7.9	19.4
7 20	17 12.33	-26 40.4	1.577	2.457	14.8	18.9	7 20	17 15.17	-33 44.0	2.582	3.438	10.5	19.5
206123	2002 <i>RL</i> ₂₇₉		6 16.9 326°90	0°3/16.9	17		517602	2014 <i>WS</i> ₃₇₃		6 16.9 149°33	3°0/17.1	17	
5 11	18 6.78	-23 6.2	1.703	2.552	15.1	20.6	5 11	18 14.53	-30 10.8	1.750	2.581	15.5	22.0
5 21	18 2.96	-22 58.9	1.619	2.543	11.7	20.4	5 21	18 8.91	-30 36.0	1.676	2.588	12.1	21.8
5 31	17 56.59	-22 50.8	1.556	2.534	7.7	20.1	5 31	18 0.44	-30 55.9	1.624	2.593	8.3	21.6
6 10	17 48.34	-22 41.3	1.516	2.526	3.2	19.8	6 10	17 49.93	-31 7.1	1.596	2.599	4.5	21.4
6 20	17 39.19	-22 30.2	1.502	2.517	1.5	19.7	6 20	17 38.54	-31 7.2	1.594	2.604	3.3	21.3
6 30	17 30.34	-22 18.3	1.515	2.510	6.1	20.0	6 30	17 27.62	-30 56.1	1.620	2.608	6.6	21.5
7 10	17 22.91	-22 7.0	1.551	2.502	10.5	20.2	7 10	17 18.44	-30 36.3	1.670	2.612	10.5	21.8
7 20	17 17.75	-21 58.1	1.610	2.496	14.3	20.4	7 20	17 11.84	-30 11.8	1.743	2.616	14.0	22.0
489036	2005 <i>WM</i> ₁₈₁		6 16.9 202°81	3°4/16.3	17		311480	2005 <i>VQ</i> ₁₅		6 16.9 246°02	5°4/16.5	18	
5 11	18 9.91	-14 49.5	2.367	3.184	12.4	22.6	5 11	18 5.30	-4 41.8	2.861	3.652	11.1	21.4
5 21	18 4.46	-14 11.1	2.277	3.179	9.8	22.4	5 21	18 0.71	-4 18.2	2.761	3.636	9.2	21.2
5 31	17 57.11	-13 35.5	2.210	3.173	6.8	22.2	5 31	17 54.60	-4 3.2	2.684	3.619	7.2	21.1
6 10	17 48.44	-13 4.2	2.169	3.167	4.1	22.1	6 10	17 47.41	-3 58.7	2.633	3.601	5.7	20.9
6 20	17 39.17	-12 38.6	2.157	3.160	3.7	22.0	6 20	17 39.67	-4 5.7	2.610	3.583	5.5	20.9
6 30	17 30.12	-12 20.2	2.174	3.152	6.1	22.2	6 30	17 32.02	-4 24.8	2.614	3.565	6.8	21.0
7 10	17 22.12	-12 9.6	2.217	3.143	9.1	22.3	7 10	17 25.09	-4 55.1	2.644	3.546	8.8	21.1
7 20	17 15.76	-12 7.2	2.284	3.134	12.0	22.5	7 20	17 19.40	-5 35.2	2.699	3.526	11.0	21.2
256073	2006 <i>UF</i> ₁₈₁		6 16.9 133°19	0°9/16.8	18		174589	2003 <i>QY</i> ₄₅		6 16.9 278°86	2°0/16.9	18	
5 11	18 13.05	-23 1.2	1.721	2.558	15.5	20.5	5 11	18 11.82	-27 11.4	1.524	2.371	16.7	20.4
5 21	18 7.73	-23 44.4	1.647	2.564	12.0	20.3	5 21	18 7.55	-27 29.6	1.429	2.351	13.1	20.1
5 31	17 59.68	-24 30.0	1.595	2.570	7.8	20.0	5 31	18 0.03	-27 45.3	1.354	2.330	8.9	19.8
6 10	17 49.62	-25 14.8	1.568	2.576	3.4	19.8	6 10	17 49.96	-27 55.5	1.303	2.310	4.2	19.5
6 20	17 38.62	-25 55.6	1.567	2.582	1.8	19.7	6 20	17 38.46	-27 57.3	1.276	2.289	2.6	19.3
6 30	17 27.97	-26 30.2	1.594	2.587	6.2	20.0	6 30	17 27.05	-27 50.2	1.274	2.268	7.2	19.5
7 10	17 18.90	-26 58.4	1.647	2.592	10.4	20.2	7 10	17 17.31	-27 35.9	1.297	2.247	12.2	19.8
7 20	17 12.26	-27 21.5	1.722	2.597	14.0	20.5	7 20	17 10.39	-27 18.0	1.340	2.226	16.6	20.0
159933	2005 <i>VE</i> ₁₀₃		6 16.9 114°99	6°0/17.1	18		509834	2008 <i>XL</i> ₄₆		6 16.9 201°84	3°4/16.9	18	
5 11	18 17.13	-38 11.1	2.063	2.868	14.4	20.2	5 11	18 12.85	-33 44.5	2.825	3.628	11.0	22.3
5 21	18 10.72	-39 11.6	1.999	2.885	11.7	20.0	5 21	18 6.79	-34 22.1	2.731	3.622	8.7	22.2
5 31	18 1.51	-40 2.6	1.957	2.902	8.9	19.9	5 31	17 58.72	-34 54.7	2.661	3.616	6.3	22.0
6 10	17 50.34	-40 38.7	1.940	2.918	6.6	19.8	6 10	17 49.17	-35 19.3	2.617	3.609	4.1	21.8
6 20	17 38.32	-40 56.4	1.950	2.934	6.1	19.8	6 20	17 38.89	-35 33.8	2.603	3.601	3.5	21.8
6 30	17 26.82	-40 54.9	1.987	2.949	7.7	19.9	6 30	17 28.77	-35 37.3	2.617	3.593	5.4	21.9
7 10	17 17.05	-40 37.3	2.049	2.964	10.3	20.1	7 10	17 19.67	-35 31.1	2.660	3.584	7.9	22.1
7 20	17 9.84	-40 8.2	2.133	2.978	12.8	20.3	7 20	17 12.27	-35 17.3	2.727	3.574	10.3	22.2
37145	2000 <i>VZ</i> ₄₅		6 16.9 315°82	2°0/16.7	18		235843	2004 <i>YD</i> ₃₆		6 16.9 226°69	0°0/16.9	17	
5 11	18 5.46	-18 27.8	2.005	2.845	13.5	19.3	5 11	18 9.36	-22 52.3	2.060	2.893	13.4	21.3
5 21	18 1.52	-18 16.2	1.916	2.834	10.5	19.0	5 21	18 4.51	-23 0.8	1.973	2.888	10.4	21.0
5 31	17 55.45	-18 7.0	1.849	2.824	7.0	18.8	5 31	17 57.40	-23 9.6	1.908	2.883	6.8	20.8
6 10	17 47.82	-18 0.8	1.807	2.814	3.4	18.6	6 10	17 48.66	-23 17.5	1.868	2.877	2.8	20.5
6 20	17 39.44	-17 57.9	1.792	2.804	2.4	18.5	6 20	17 39.12	-23 23.5	1.856	2.871	1.3	20.4
6 30	17 31.27	-17 58.6	1.803	2.794	5.8	18.7	6 30	17 29.83	-23 27.6	1.871	2.865	5.4	20.7
7 10	17 24.24	-18 3.4	1.840	2.784	9.5	18.9	7 10	17 21.75	-23 30.2	1.913	2.858	9.2	20.9
7 20	17 19.07	-18 12.5	1.899	2.775	12.9	19.1	7 20	17 15.64	-23 32.6	1.978	2.851	12.6	21.1
439669	2014 <i>HH</i> ₁₆₀		6 16.9 284°81	3°4/16.7	17		427233	2014 <i>WH</i> ₅₅		6 16.9 170°40	0°8/16.9	17	
5 11	18 5.69	-13 45.9	2.216	3.044	12.8	21.1	5 11	18 12.49	-21 13.8	1.863	2.696	14.7	22.6
5 21	18 1.38	-13 30.4	2.133	3.042	10.1	20.9	5 21	18 7.00	-21 13.6	1.785	2.700	11.3	22.4
5 31	17 55.18	-13 20.4	2.073	3.039	7.0	20.7	5 31	17 59.04	-21 14.6	1.728	2.703	7.4	22.2
6 10	17 47.66	-13 16.8	2.037	3.036	4.2	20.5	6 10	17 49.33	-21 15.7	1.697	2.705	3.2	21.9
6 20	17 39.53	-13 20.2	2.029	3.033	3.6	20.5	6 20	17 38.84	-21 16.5	1.692	2.707	1.6	21.8
6 30	17 31.63	-13 30.8	2.048	3.031	6.0	20.6	6 30	17 28.71	-21 17.1	1.715	2.708	5.9	22.1
7 10	17 24.77	-13 48.2	2.093	3.028	9.1	20.8	7 10	17 20.01	-21 18.2	1.765	2.708	9.9	22.3
7 20	17 19.55	-14 11.7	2.162	3.025	12.0	21.0	7 20	17 13.53	-21 20.9	1.837	2.708	13.5	22.6
198378	2004 <i>VP</i> ₂₇		6 16.9 210°26	7°3/17.7	18		131504	2001 <i>SX</i> ₂₈₀		6 16.9 240°83	2°0/16.7	17	
5 11	18 16.28	-42 42.7	2.043	2.838	14.8	20.6	5 11	18 12.13	-19 32.7	1.581	2.424	16.4	20.6
5 21	18 10.42	-43 24.5	1.961	2.835	12.4	20.5	5 21	18 7.30	-19 15.3	1.493	2.413	12.8	20.3
5 31	18 1.52	-43 53.5	1.900	2.832	9.9	20.3	5 31	17 59.58	-18 59.6	1.425	2.401	8.6	20.1
6 10	17 50.41	-44 4.2	1.863	2.828	7.9	20.2	6 10	17 49.67	-18 45.8	1.382	2.389	4.0	19.8
6 20	17 38.30	-43 52.9	1.850	2.824	7.3	20.1	6 20	17 38.65	-18 34.3	1.364	2.377	2.6	19.6
6 30	17 26.65	-43 19.4	1.864	2.820	8.7	20.2	6 30	17 27.88	-18 26.1	1.372	2.364	7.1	19.9
7 10	17 16.83	-42 27.7	1.903	2.815	11.1	20.3	7 10	17 18.67	-18 22.2	1.404	2.350	11.8	20.1
7 20	17 9.74	-41 23.8	1.963	2.810	13.7	20.5	7 20	17 11.99	-18 24.0	1.458	2.337	15.9	20.3
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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
26686	Ellenprce		6 16.9	2°81	1.4/17.0	18	415699	1996 XL ₈		6 16.9	221°64	1.3/17.1	17
5 11	18 4.92	-26 7.4	1.088	1.967	19.6	18.6	5 11	18 13.75	-27 59.1	1.749	2.584	15.4	21.6
5 21	18 2.74	-26 13.3	1.025	1.965	15.2	18.4	5 21	18 8.34	-27 46.6	1.662	2.577	12.0	21.4
5 31	17 57.01	-26 15.8	0.981	1.965	10.1	18.1	5 31	18 0.13	-27 28.2	1.596	2.570	8.0	21.1
6 10	17 48.66	-26 12.9	0.956	1.966	4.4	17.8	6 10	17 49.87	-27 2.3	1.555	2.563	3.6	20.8
6 20	17 39.14	-26 3.3	0.953	1.968	2.3	17.6	6 20	17 38.67	-26 28.4	1.541	2.555	1.9	20.7
6 30	17 30.22	-25 47.7	0.973	1.971	7.8	18.0	6 30	17 27.87	-25 48.3	1.553	2.546	6.3	21.0
7 10	17 23.52	-25 29.1	1.013	1.976	13.2	18.3	7 10	17 18.69	-25 5.2	1.591	2.537	10.6	21.2
7 20	17 20.02	-25 10.9	1.072	1.983	17.8	18.6	7 20	17 12.02	-24 23.3	1.652	2.528	14.5	21.4
106316	2000 UA ₉₆		6 16.9	229°71	0°6/16.8	18	427273	2014 WQ ₁₇₀		6 16.9	140°15	1°1/17.0	17
5 11	18 7.36	-22 53.4	2.512	3.339	11.5	19.6	5 11	18 14.05	-26 24.4	1.948	2.775	14.3	22.5
5 21	18 2.51	-22 31.3	2.420	3.332	8.9	19.4	5 21	18 8.08	-26 30.6	1.875	2.787	11.0	22.3
5 31	17 55.85	-22 7.6	2.352	3.325	5.8	19.2	5 31	17 59.67	-26 33.8	1.826	2.798	7.3	22.1
6 10	17 47.95	-21 42.3	2.310	3.319	2.5	19.0	6 10	17 49.59	-26 32.2	1.801	2.809	3.2	21.8
6 20	17 39.49	-21 15.9	2.297	3.311	1.3	18.9	6 20	17 38.83	-26 24.8	1.805	2.819	1.7	21.7
6 30	17 31.26	-20 49.6	2.313	3.304	4.7	19.1	6 30	17 28.55	-26 12.0	1.836	2.828	5.6	22.0
7 10	17 24.04	-20 25.0	2.355	3.296	7.9	19.3	7 10	17 19.79	-25 55.9	1.893	2.837	9.4	22.3
7 20	17 18.40	-20 3.3	2.423	3.289	10.8	19.5	7 20	17 13.27	-25 38.8	1.975	2.844	12.7	22.5
497868	2006 UV ₁₇₄		6 16.9	290°00	4°8/16.7	17	410243	2007 TN ₆₁		6 16.9	141°62	1°9/16.8	17
5 11	18 12.13	-31 6.3	1.497	2.342	17.0	21.2	5 11	18 12.98	-19 7.7	1.772	2.606	15.3	22.0
5 21	18 8.03	-32 3.6	1.409	2.326	13.6	21.0	5 21	18 7.35	-18 53.7	1.701	2.616	11.8	21.8
5 31	18 0.50	-32 58.3	1.340	2.310	9.6	20.7	5 31	17 59.25	-18 41.9	1.652	2.625	7.8	21.5
6 10	17 50.21	-33 44.6	1.295	2.294	5.9	20.4	6 10	17 49.43	-18 32.3	1.628	2.634	3.7	21.3
6 20	17 38.38	-34 16.8	1.274	2.279	5.1	20.3	6 20	17 38.90	-18 25.2	1.630	2.643	2.4	21.2
6 30	17 26.64	-34 31.9	1.277	2.263	8.4	20.5	6 30	17 28.85	-18 21.1	1.660	2.651	6.3	21.5
7 10	17 16.70	-34 31.4	1.304	2.247	12.7	20.7	7 10	17 20.33	-18 20.8	1.716	2.658	10.3	21.8
7 20	17 9.78	-34 19.4	1.352	2.232	16.8	20.9	7 20	17 14.07	-18 24.8	1.794	2.665	13.8	22.0
95801	2003 FZ ₄₁		6 16.9	43°95	6°1/16.4	18	400494	2008 JK ₆		6 16.9	153°69	1°1/16.8	18
5 11	18 7.46	-11 5.6	1.530	2.372	16.8	19.5	5 11	18 8.82	-24 32.7	2.459	3.284	11.8	21.4
5 21	18 3.33	-10 16.1	1.467	2.380	13.5	19.3	5 21	18 3.79	-25 14.7	2.375	3.286	9.1	21.2
5 31	17 56.71	-9 35.3	1.425	2.388	9.8	19.1	5 31	17 56.81	-25 57.2	2.315	3.287	6.0	21.0
6 10	17 48.36	-9 6.7	1.405	2.397	6.8	18.9	6 10	17 48.42	-26 38.2	2.282	3.289	2.7	20.8
6 20	17 39.32	-8 52.5	1.410	2.406	6.3	18.9	6 20	17 39.35	-27 15.3	2.277	3.290	1.6	20.7
6 30	17 30.77	-8 53.9	1.439	2.415	8.8	19.1	6 30	17 30.45	-27 47.3	2.301	3.292	4.8	20.9
7 10	17 23.77	-9 9.9	1.492	2.424	12.2	19.3	7 10	17 22.58	-28 13.8	2.353	3.293	8.0	21.1
7 20	17 19.04	-9 38.4	1.565	2.434	15.5	19.6	7 20	17 16.38	-28 35.6	2.429	3.294	10.8	21.3
177690	2005 FX ₂		6 16.9	72°33	0°5/16.9	17	19021	2000 SC ₈		6 16.9	139°57	15°3/16.2	18
5 11	18 12.98	-23 20.9	1.408	2.258	17.6	20.4	5 11	18 11.28	+34 27.3	2.813	3.333	16.3	19.1
5 21	18 7.94	-23 39.4	1.351	2.275	13.5	20.2	5 21	18 5.37	+36 7.9	2.786	3.348	15.8	19.1
5 31	17 59.86	-23 58.3	1.315	2.293	8.8	20.0	5 31	17 57.64	+37 22.7	2.773	3.363	15.5	19.1
6 10	17 49.70	-24 15.4	1.301	2.310	3.7	19.7	6 10	17 48.69	+38 7.1	2.774	3.376	15.4	19.1
6 20	17 38.75	-24 28.5	1.313	2.328	1.7	19.6	6 20	17 39.26	+38 18.9	2.789	3.389	15.3	19.1
6 30	17 28.48	-24 37.3	1.350	2.345	6.7	20.0	6 30	17 30.18	+37 57.8	2.818	3.401	15.5	19.2
7 10	17 20.18	-24 42.8	1.411	2.363	11.3	20.3	7 10	17 22.20	+37 6.5	2.860	3.413	15.7	19.2
7 20	17 14.68	-24 47.1	1.494	2.380	15.2	20.6	7 20	17 15.90	+35 49.4	2.915	3.423	16.0	19.3
307074	2002 AH ₄₉		6 16.9	212°01	1°4/17.1	18	102790	1999 VH ₁₅₇		6 16.9	237°13	0°2/16.9	18
5 11	18 8.65	-28 45.4	2.465	3.289	11.8	20.8	5 11	18 12.84	-24 7.0	1.918	2.749	14.4	21.2
5 21	18 3.60	-28 40.0	2.377	3.285	9.1	20.6	5 21	18 7.50	-24 6.9	1.821	2.735	11.2	21.0
5 31	17 56.61	-28 30.0	2.312	3.282	6.1	20.4	5 31	17 59.57	-24 5.5	1.746	2.720	7.4	20.7
6 10	17 48.28	-28 14.3	2.273	3.279	2.9	20.2	6 10	17 49.68	-24 1.3	1.696	2.704	3.1	20.4
6 20	17 39.37	-27 52.5	2.262	3.275	1.8	20.1	6 20	17 38.77	-23 53.6	1.673	2.688	1.4	20.3
6 30	17 30.74	-27 25.6	2.280	3.271	4.8	20.3	6 30	17 28.04	-23 42.5	1.678	2.671	5.9	20.5
7 10	17 23.22	-26 55.3	2.325	3.267	7.9	20.5	7 10	17 18.65	-23 29.7	1.709	2.653	10.2	20.7
7 20	17 17.43	-26 24.1	2.394	3.262	10.8	20.6	7 20	17 11.48	-23 17.2	1.763	2.635	13.9	20.9
362806	2011 YQ ₅		6 16.9	200°20	1°0/16.9	18	467213	2016 EP ₁₅₁		6 16.9	95°98	1°1/16.9	17
5 11	18 6.23	-19 30.7	2.722	3.546	10.8	21.8	5 11	18 13.87	-25 40.5	1.504	2.349	17.0	21.4
5 21	18 1.51	-19 33.0	2.634	3.544	8.3	21.6	5 21	18 8.55	-25 50.9	1.442	2.362	13.1	21.2
5 31	17 55.16	-19 37.1	2.569	3.541	5.5	21.4	5 31	18 0.26	-25 59.0	1.400	2.376	8.6	21.0
6 10	17 47.67	-19 42.5	2.531	3.538	2.5	21.2	6 10	17 49.90	-26 2.4	1.381	2.389	3.7	20.7
6 20	17 39.65	-19 49.2	2.521	3.535	1.5	21.1	6 20	17 38.74	-25 59.7	1.388	2.403	1.9	20.6
6 30	17 31.81	-19 56.9	2.541	3.531	4.4	21.4	6 30	17 28.22	-25 51.3	1.421	2.416	6.6	21.0
7 10	17 24.85	-20 5.8	2.587	3.527	7.4	21.5	7 10	17 19.61	-25 39.4	1.479	2.428	11.0	21.3
7 20	17 19.29	-20 16.2	2.659	3.523	10.0	21.7	7 20	17 13.74	-25 26.7	1.558	2.441	14.8	21.5
74167	1998 RF ₂		6 16.9	346°03	10°2/16.2	17	206091	2002 RY ₁₄₀		6 16.9	262°90	2°4/16.9	18
5 11	18 9.15	-40 56.1	1.390	2.228	18.4	17.9	5 11	18 8.07	-15 51.8	2.156	2.984	13.1	20.8
5 21	18 6.40	-42 35.6	1.318	2.217	15.6	17.7	5 21	18 3.46	-15 56.1	2.059	2.969	10.3	20.6
5 31	17 59.77	-44 4.7	1.264	2.208	12.7	17.5	5 31	17 56.75	-16 5.7	1.984	2.954	7.0	20.4
6 10	17 50.01	-45 13.8	1.230	2.199	10.6	17.3	6 10	17 48.46	-16 20.7	1.934	2.938	3.6	20.1
6 20	17 38.52	-45 54.8	1.219	2.192	10.3	17.3	6 20	17 39.34	-16 40.7	1.912	2.922	2.7	20.0
6 30	17 27.31	-46 4.1	1.230	2.186	12.1	17.4	6 30	17 30.32	-17 5.3	1.918	2.906	5.8	20.2
7 10	17 18.36	-45 44.7	1.261	2.181	15.0	17.5	7 10	17 22.33	-17 33.7	1.949	2.890	9.3	20.4
7 20	17 13.01	-45 3.8	1.311	2.177	18.1	17.7	7 20	17 16.09	-18 5.3	2.005	2.873	12.6	20.6
512979	2017 UA ₁₀		6 16.9	313°44	6°9/17.4	18	49097	1998 RU ₇₃		6 16.9	288°37	4°0/16.4	18
5 11	18 9.16												

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
16115	1999 <i>XH</i> ₂₅		6 16.9 166°64	0°5/16.9	18		333302	2000 <i>SN</i> ₃₀₂		6 16.9 330°76	1°3/17.1	17	
5 11	18 6.34	-21 22.9	2.857	3.679	10.4	19.0	5 11	18 6.30	-27 37.6	1.338	2.202	17.5	20.0
5 21	18 1.50	-21 23.4	2.772	3.682	8.0	18.8	5 21	18 3.47	-27 22.4	1.253	2.185	13.8	19.7
5 31	17 55.11	-21 24.4	2.712	3.685	5.2	18.6	5 31	17 57.42	-27 0.3	1.188	2.169	9.2	19.4
6 10	17 47.66	-21 25.4	2.679	3.687	2.2	18.4	6 10	17 48.92	-26 30.1	1.145	2.154	4.1	19.0
6 20	17 39.74	-21 26.3	2.675	3.690	1.1	18.3	6 20	17 39.19	-25 51.5	1.125	2.140	2.1	18.8
6 30	17 32.04	-21 27.0	2.700	3.692	4.1	18.6	6 30	17 29.80	-25 6.8	1.129	2.126	7.3	19.1
7 10	17 25.20	-21 28.1	2.753	3.693	6.9	18.8	7 10	17 22.25	-24 20.2	1.155	2.114	12.4	19.4
7 20	17 19.73	-21 30.1	2.831	3.695	9.5	18.9	7 20	17 17.58	-23 36.2	1.202	2.103	17.0	19.6
41589	2000 <i>SJ</i> ₄₆		6 16.9 298°94	3°4/17.7	18		86242	1999 <i>TT</i> ₁₂₇		6 16.9 284°01	2°7/16.7	18	
5 11	18 12.24	-33 46.8	1.667	2.501	16.0	17.5	5 11	18 5.62	-15 28.3	2.302	3.131	12.3	19.9
5 21	18 7.53	-33 30.2	1.574	2.486	12.8	17.2	5 21	18 1.42	-15 16.1	2.206	3.116	9.7	19.7
5 31	17 59.77	-33 1.7	1.503	2.471	9.0	17.0	5 31	17 55.32	-15 7.9	2.132	3.101	6.7	19.5
6 10	17 49.79	-32 18.5	1.455	2.456	5.0	16.7	6 10	17 47.85	-15 4.7	2.084	3.086	3.7	19.3
6 20	17 38.77	-31 19.9	1.432	2.442	3.6	16.6	6 20	17 39.69	-15 6.7	2.064	3.071	3.0	19.2
6 30	17 28.18	-30 8.5	1.436	2.427	6.9	16.7	6 30	17 31.65	-15 14.4	2.070	3.056	5.7	19.4
7 10	17 19.38	-28 49.7	1.465	2.413	11.2	16.9	7 10	17 24.57	-15 27.6	2.103	3.041	8.9	19.5
7 20	17 13.29	-27 30.2	1.516	2.399	15.1	17.1	7 20	17 19.08	-15 46.0	2.160	3.026	11.9	19.7
261037	2005 <i>SR</i> ₁₄₃		6 16.9 306°86	5°5/16.8	18		436167	2009 <i>VQ</i> ₇₉		6 16.9 191°96	3°3/17.3	17	
5 11	18 10.26	-36 16.9	2.084	2.903	13.8	21.2	5 11	18 13.66	-32 54.7	2.101	2.920	13.7	21.9
5 21	18 5.69	-37 12.3	1.996	2.893	11.2	21.0	5 21	18 7.93	-33 8.1	2.016	2.919	10.8	21.7
5 31	17 58.48	-38 1.2	1.929	2.883	8.4	20.8	5 31	17 59.70	-33 14.3	1.954	2.917	7.6	21.5
6 10	17 49.26	-38 38.7	1.887	2.872	6.1	20.6	6 10	17 49.69	-33 10.4	1.916	2.915	4.5	21.3
6 20	17 38.99	-39 1.1	1.872	2.862	5.6	20.6	6 20	17 38.89	-32 54.7	1.906	2.912	3.5	21.3
6 30	17 28.90	-39 6.9	1.882	2.852	7.5	20.7	6 30	17 28.46	-32 27.6	1.924	2.909	6.1	21.4
7 10	17 20.19	-38 57.6	1.917	2.843	10.3	20.8	7 10	17 19.50	-31 52.0	1.968	2.905	9.4	21.6
7 20	17 13.77	-38 36.8	1.975	2.833	13.2	21.0	7 20	17 12.78	-31 11.8	2.035	2.901	12.6	21.8
93649	2000 <i>UA</i> ₉₄		6 16.9 327°32	3°7/16.1	18		126960	2002 <i>FZ</i> ₁₄		6 16.9 338°10	5°4/17.4	18	
5 11	18 5.91	-19 33.3	1.396	2.258	17.1	18.8	5 11	18 8.32	-8 17.9	1.727	2.553	15.9	19.4
5 21	18 2.78	-18 25.4	1.311	2.241	13.4	18.5	5 21	18 3.96	-8 21.0	1.649	2.551	12.8	19.2
5 31	17 56.75	-17 14.5	1.246	2.225	9.1	18.2	5 31	17 57.19	-8 37.3	1.591	2.549	9.4	19.0
6 10	17 48.56	-16 3.7	1.204	2.209	4.9	17.9	6 10	17 48.68	-9 8.3	1.557	2.548	6.4	18.8
6 20	17 39.31	-14 57.2	1.186	2.195	4.3	17.9	6 20	17 39.32	-9 53.6	1.548	2.546	5.6	18.7
6 30	17 30.38	-13 59.7	1.192	2.181	8.3	18.1	6 30	17 30.21	-10 51.6	1.565	2.544	7.9	18.9
7 10	17 23.07	-13 15.0	1.220	2.168	13.0	18.3	7 10	17 22.42	-11 59.2	1.608	2.543	11.3	19.1
7 20	17 18.34	-12 45.2	1.269	2.156	17.2	18.5	7 20	17 16.72	-13 12.9	1.672	2.542	14.6	19.3
35975	1999 <i>LG</i> ₂₇		6 16.9 337°43	1°6/16.5	18		434743	2006 <i>GV</i> ₄₃		6 16.9 104°14	1°8/16.8	17	
5 11	18 8.16	-23 57.4	1.460	2.316	16.8	17.3	5 11	18 11.03	-18 51.9	2.101	2.928	13.4	22.4
5 21	18 4.34	-22 55.7	1.379	2.307	13.0	17.1	5 21	18 5.38	-18 37.4	2.038	2.949	10.3	22.3
5 31	17 57.64	-21 47.5	1.319	2.299	8.6	16.8	5 31	17 57.73	-18 24.9	1.999	2.970	6.8	22.1
6 10	17 48.88	-20 34.6	1.283	2.292	3.8	16.5	6 10	17 48.77	-18 14.6	1.985	2.991	3.2	21.9
6 20	17 39.20	-19 20.3	1.271	2.285	2.4	16.4	6 20	17 39.35	-18 6.8	1.999	3.011	2.2	21.8
6 30	17 30.00	-18 9.4	1.285	2.279	7.2	16.7	6 30	17 30.40	-18 1.8	2.042	3.031	5.4	22.1
7 10	17 22.53	-17 6.6	1.323	2.273	11.9	16.9	7 10	17 22.77	-18 0.4	2.111	3.050	8.8	22.3
7 20	17 17.63	-16 15.5	1.381	2.269	16.1	17.2	7 20	17 17.02	-18 2.9	2.204	3.069	11.8	22.6
507905	2014 <i>US</i> ₂₂₇		6 16.9 262°17	4°2/16.6	17		302164	2001 <i>SS</i> ₃₄₆		6 16.9 243°59	3°7/17.2	17	
5 11	18 9.59	-14 37.2	1.614	2.454	16.2	21.6	5 11	18 14.88	-31 20.9	1.522	2.361	17.1	21.4
5 21	18 5.23	-14 8.0	1.526	2.442	12.8	21.3	5 21	18 9.91	-31 40.2	1.437	2.352	13.5	21.1
5 31	17 58.19	-13 44.3	1.460	2.430	9.0	21.1	5 31	18 1.56	-31 52.6	1.371	2.342	9.4	20.9
6 10	17 49.14	-13 27.8	1.417	2.418	5.3	20.8	6 10	17 50.65	-31 53.9	1.329	2.331	5.2	20.6
6 20	17 39.06	-13 20.2	1.399	2.405	4.5	20.7	6 20	17 38.44	-31 41.1	1.312	2.321	3.9	20.5
6 30	17 29.20	-13 22.5	1.407	2.392	7.8	20.9	6 30	17 26.59	-31 14.1	1.320	2.310	7.6	20.7
7 10	17 20.76	-13 34.8	1.439	2.379	12.0	21.1	7 10	17 16.66	-30 36.8	1.352	2.298	12.1	20.9
7 20	17 14.65	-13 56.3	1.492	2.366	15.9	21.3	7 20	17 9.73	-29 54.5	1.405	2.287	16.2	21.1
434124	2002 <i>QD</i> ₅₂		6 16.9 307°12	3°5/17.0	16		19101	1981 <i>EV</i> ₆		6 16.9 273°73	1°0/17.1	18	
5 11	18 9.16	-30 35.3	1.718	2.560	15.3	21.3	5 11	18 7.99	-27 22.1	2.296	3.125	12.4	18.9
5 21	18 5.37	-31 3.1	1.612	2.529	12.2	21.0	5 21	18 3.32	-27 13.5	2.202	3.115	9.6	18.7
5 31	17 58.60	-31 26.7	1.527	2.499	8.5	20.7	5 31	17 56.58	-27 0.8	2.132	3.105	6.4	18.5
6 10	17 49.45	-31 42.5	1.466	2.468	4.8	20.4	6 10	17 48.37	-26 43.2	2.087	3.094	2.9	18.2
6 20	17 38.89	-31 47.2	1.429	2.438	3.8	20.3	6 20	17 39.49	-26 20.3	2.070	3.084	1.5	18.1
6 30	17 28.30	-31 39.3	1.418	2.408	7.2	20.4	6 30	17 30.85	-25 53.1	2.081	3.073	5.0	18.3
7 10	17 19.14	-31 20.7	1.431	2.378	11.5	20.6	7 10	17 23.34	-25 23.5	2.118	3.063	8.5	18.5
7 20	17 12.52	-30 54.9	1.466	2.349	15.6	20.7	7 20	17 17.64	-24 53.8	2.180	3.052	11.6	18.7
468300	2015 <i>FH</i> ₃		6 16.9 313°84	8°5/17.9	18		509461	2007 <i>RB</i> ₁₀₃		6 16.9 295°23	7°6/15.5	16	
5 11	18 7.46	-3 53.6	1.339	2.173	19.2	20.0	5 11	18 6.26	-6 44.9	1.871	2.693	15.1	21.3
5 21	18 4.40	-3 51.8	1.239	2.141	16.2	19.7	5 21	18 2.39	-5 40.5	1.771	2.666	12.5	21.1
5 31	17 58.21	-4 12.0	1.157	2.109	12.7	19.4	5 31	17 56.23	-4 43.7	1.692	2.638	9.9	20.9
6 10	17 49.39	-4 59.4	1.095	2.078	9.6	19.1	6 10	17 48.34	-3 59.1	1.637	2.611	7.9	20.7
6 20	17 38.88	-6 16.2	1.055	2.047	8.6	19.0	6 20	17 39.48	-3 30.6	1.606	2.584	7.8	20.6
6 30	17 28.09	-8 1.0	1.039	2.017	11.0	19.0	6 30	17 30.67	-3 20.9	1.601	2.556	9.8	20.7
7 10	17 18.62	-10 7.6	1.045	1.987	15.3	19.1	7 10	17 22.93	-3 30.3	1.618	2.529	12.8	20.8
7 20	17 11.78	-12 27.9	1.072	1.959	19.7	19.3	7 20	17 17.08	-3 57.4	1.657	2.502	15.9	21.0
350152	2011 <i>SD</i> ₁₀₄		6 16.9 335°72	5°5/17.4	18		64514	2001 <i>VT</i> _{88</}					

EPHEMERIDES

6 16.9

6 16.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
504982	2011 <i>HN</i> ₁₈		6 16.9 186°09	0°8/16.9 17			384579	2010 <i>HO</i> ₁₅		6 16.9 184°54	0°4/16.9 18		
5 11	18 11.15	-23 34.4	1.917	2.751	14.2	21.8	5 11	18 11.11	-22 49.1	2.154	2.982	13.1	21.2
5 21	18 6.13	-24 8.2	1.836	2.751	11.0	21.6	5 21	18 5.80	-23 14.6	2.070	2.982	10.1	21.0
5 31	17 58.62	-24 43.4	1.776	2.751	7.2	21.4	5 31	17 58.27	-23 41.4	2.008	2.982	6.6	20.8
6 10	17 49.30	-25 17.5	1.742	2.751	3.1	21.1	6 10	17 49.13	-24 7.5	1.973	2.981	2.8	20.5
6 20	17 39.09	-25 48.1	1.736	2.750	1.6	21.0	6 20	17 39.22	-24 31.2	1.965	2.980	1.3	20.4
6 30	17 29.13	-26 13.7	1.756	2.749	5.7	21.3	6 30	17 29.54	-24 51.5	1.986	2.979	5.2	20.7
7 10	17 20.53	-26 34.3	1.803	2.748	9.7	21.5	7 10	17 21.05	-25 8.5	2.034	2.977	8.9	20.9
7 20	17 14.08	-26 51.0	1.873	2.747	13.1	21.7	7 20	17 14.49	-25 23.1	2.106	2.974	12.1	21.1
222389	2001 <i>DA</i> ₇₇		6 16.9 183°78	18°6/15.5 18			75587	2000 <i>AK</i> ₁₆		6 16.9 300°39	0°1/16.9 18		
5 11	18 16.85	+13 6.6	1.350	2.098	23.2	21.4	5 11	18 9.49	-21 9.1	1.438	2.293	17.1	18.8
5 21	18 11.07	+15 12.3	1.294	2.100	21.4	21.2	5 21	18 5.81	-21 38.6	1.348	2.275	13.4	18.5
5 31	18 2.10	+16 48.9	1.254	2.101	19.8	21.1	5 31	17 58.99	-22 13.4	1.278	2.258	8.9	18.2
6 10	17 50.81	+17 45.5	1.232	2.101	18.8	21.0	6 10	17 49.67	-22 51.3	1.231	2.240	3.8	17.9
6 20	17 38.43	+17 54.5	1.227	2.099	18.7	21.0	6 20	17 38.92	-23 29.5	1.208	2.223	1.7	17.7
6 30	17 26.50	+17 14.2	1.241	2.096	19.7	21.1	6 30	17 28.22	-24 5.6	1.210	2.206	7.1	18.0
7 10	17 16.45	+15 49.7	1.272	2.091	21.3	21.2	7 10	17 19.11	-24 38.5	1.236	2.190	12.3	18.2
7 20	17 9.24	+13 50.5	1.318	2.085	23.2	21.3	7 20	17 12.75	-25 8.7	1.282	2.174	16.8	18.4
505917	2015 <i>ET</i> ₃₆		6 16.9 17°51	11°3/18.2 17			297804	2002 <i>AQ</i> ₂₇		6 16.9 154°95	2°6/17.1 18		
5 11	18 18.93	-49 31.1	1.684	2.468	18.0	20.9	5 11	18 9.85	-31 58.6	2.844	3.654	10.7	21.6
5 21	18 13.66	-50 43.2	1.617	2.469	15.7	20.8	5 21	18 4.35	-32 22.6	2.763	3.661	8.4	21.4
5 31	18 4.28	-51 36.7	1.568	2.470	13.5	20.6	5 31	17 57.07	-32 42.0	2.706	3.668	5.9	21.2
6 10	17 51.82	-52 2.8	1.540	2.472	11.8	20.5	6 10	17 48.55	-32 54.6	2.676	3.674	3.4	21.1
6 20	17 37.99	-51 55.5	1.534	2.474	11.4	20.5	6 20	17 39.50	-32 59.0	2.675	3.680	2.8	21.1
6 30	17 24.91	-51 14.4	1.550	2.476	12.3	20.6	6 30	17 30.71	-32 55.1	2.702	3.685	4.7	21.2
7 10	17 14.49	-50 5.4	1.588	2.478	14.2	20.7	7 10	17 22.93	-32 44.2	2.757	3.690	7.3	21.4
7 20	17 7.83	-48 37.6	1.647	2.481	16.5	20.8	7 20	17 16.75	-32 28.2	2.838	3.694	9.7	21.5
173107	2007 <i>VX</i> ₁₁₁		6 16.9 224°08	0°6/16.9 18			83704	2001 <i>TO</i> ₇₆		6 16.9 319°80	4°5/16.1 18		
5 11	18 8.22	-22 2.1	2.208	3.039	12.7	21.0	5 11	18 5.40	-14 29.8	1.834	2.674	14.5	18.6
5 21	18 3.48	-21 57.4	2.121	3.035	9.8	20.8	5 21	18 1.65	-13 37.0	1.746	2.661	11.5	18.3
5 31	17 56.68	-21 52.7	2.056	3.031	6.4	20.6	5 31	17 55.67	-12 47.3	1.681	2.649	8.2	18.1
6 10	17 48.43	-21 47.6	2.018	3.026	2.7	20.3	6 10	17 48.07	-12 3.5	1.639	2.637	5.2	17.9
6 20	17 39.51	-21 41.9	2.007	3.022	1.3	20.2	6 20	17 39.69	-11 28.2	1.624	2.625	4.8	17.9
6 30	17 30.83	-21 35.9	2.024	3.017	5.1	20.5	6 30	17 31.55	-11 3.7	1.634	2.614	7.5	18.0
7 10	17 23.27	-21 30.4	2.067	3.012	8.7	20.7	7 10	17 24.62	-10 51.2	1.668	2.603	11.0	18.2
7 20	17 17.51	-21 26.7	2.135	3.006	11.8	20.9	7 20	17 19.65	-10 50.6	1.725	2.592	14.4	18.4
310529	2001 <i>BO</i> ₇		6 16.9 183°85	1°4/16.9 18			275980	2001 <i>XA</i> ₅₀		6 16.9 321°05	0°2/16.9 17		
5 11	18 6.55	-17 16.6	2.969	3.785	10.2	22.0	5 11	18 7.70	-23 13.5	1.465	2.322	16.7	19.6
5 21	18 1.63	-17 24.5	2.880	3.785	7.9	21.8	5 21	18 4.21	-23 12.2	1.381	2.310	13.0	19.4
5 31	17 55.21	-17 35.4	2.816	3.785	5.2	21.7	5 31	17 57.75	-23 10.6	1.318	2.298	8.6	19.1
6 10	17 47.75	-17 49.1	2.780	3.785	2.6	21.5	6 10	17 49.06	-23 7.7	1.277	2.287	3.6	18.8
6 20	17 39.82	-18 5.0	2.772	3.783	1.7	21.4	6 20	17 39.24	-23 2.7	1.261	2.276	1.6	18.6
6 30	17 32.04	-18 23.0	2.794	3.782	4.2	21.6	6 30	17 29.69	-22 56.0	1.270	2.266	6.8	18.9
7 10	17 25.05	-18 42.6	2.844	3.780	6.9	21.8	7 10	17 21.79	-22 49.1	1.302	2.257	11.7	19.2
7 20	17 19.34	-19 3.8	2.919	3.778	9.4	21.9	7 20	17 16.51	-22 43.8	1.354	2.248	16.0	19.4
158369	2001 <i>XJ</i> ₁₆₃		6 16.9 135°72	1°1/16.9 17			341318	2007 <i>TQ</i> ₁		6 16.9 278°26	4°1/16.6 17		
5 11	18 11.00	-20 33.7	2.027	2.858	13.7	20.9	5 11	18 7.02	-13 20.3	1.941	2.773	14.2	21.2
5 21	18 5.61	-20 27.3	1.954	2.868	10.6	20.7	5 21	18 2.79	-12 55.6	1.854	2.764	11.2	20.9
5 31	17 58.04	-20 22.0	1.904	2.877	6.9	20.5	5 31	17 56.37	-12 36.7	1.788	2.754	8.0	20.7
6 10	17 48.98	-20 17.5	1.879	2.887	3.0	20.3	6 10	17 48.36	-12 25.3	1.746	2.744	4.9	20.5
6 20	17 39.30	-20 13.5	1.881	2.895	1.7	20.2	6 20	17 39.57	-12 22.5	1.731	2.734	4.3	20.5
6 30	17 30.01	-20 10.5	1.912	2.904	5.4	20.5	6 30	17 30.98	-12 29.0	1.742	2.724	6.9	20.6
7 10	17 22.05	-20 9.3	1.969	2.912	9.1	20.7	7 10	17 23.55	-12 44.6	1.778	2.714	10.4	20.8
7 20	17 16.07	-20 10.6	2.049	2.919	12.3	20.9	7 20	17 18.01	-13 8.4	1.837	2.704	13.7	21.0
249464	2009 <i>HH</i> ₉₇		6 16.9 305°21	7°8/15.7 17			106516	2000 <i>WN</i> ₄₅		6 16.9 269°99	1°9/16.8 18		
5 11	18 4.43	- 4 14.6	2.036	2.848	14.3	20.4	5 11	18 6.45	-17 58.2	2.357	3.186	12.1	20.1
5 21	18 0.67	- 3 13.2	1.948	2.832	12.0	20.2	5 21	18 2.05	-17 48.2	2.259	3.171	9.4	19.9
5 31	17 54.92	- 2 21.7	1.882	2.817	9.7	20.1	5 31	17 55.75	-17 40.6	2.185	3.156	6.3	19.7
6 10	17 47.73	- 1 44.2	1.838	2.802	8.1	19.9	6 10	17 48.07	-17 35.7	2.136	3.141	3.1	19.4
6 20	17 39.82	- 1 24.1	1.820	2.787	8.0	19.9	6 20	17 39.71	-17 33.8	2.115	3.126	2.2	19.4
6 30	17 32.07	- 1 23.0	1.827	2.772	9.5	20.0	6 30	17 31.47	-17 35.2	2.122	3.111	5.2	19.5
7 10	17 25.33	- 1 40.5	1.857	2.758	12.0	20.1	7 10	17 24.19	-17 40.3	2.155	3.095	8.6	19.7
7 20	17 20.29	- 2 14.5	1.908	2.744	14.5	20.2	7 20	17 18.50	-17 49.1	2.212	3.080	11.6	19.9
79127	1990 <i>SK</i> ₈		6 16.9 267°56	1°1/16.9 18			92606	2000 <i>PB</i> ₂₃		6 16.9 275°89	3°3/16.9 18		
5 11	18 10.54	-20 6.6	1.767	2.606	15.1	19.5	5 11	18 12.06	-30 1.2	1.845	2.677	14.8	19.6
5 21	18 5.98	-20 10.7	1.670	2.588	11.8	19.2	5 21	18 7.37	-30 39.4	1.744	2.656	11.7	19.3
5 31	17 58.75	-20 17.6	1.593	2.569	7.8	18.9	5 31	17 59.80	-31 14.8	1.665	2.634	8.2	19.1
6 10	17 49.45	-20 26.6	1.541	2.549	3.5	18.6	6 10	17 49.95	-31 43.5	1.610	2.612	4.6	18.8
6 20	17 39.03	-20 36.9	1.515	2.530	1.9	18.4	6 20	17 38.82	-32 1.9	1.582	2.590	3.6	18.7
6 30	17 28.68	-20 48.1	1.516	2.510	6.4	18.7	6 30	17 27.72	-32 8.2	1.580	2.567	6.9	18.9
7 10	17 19.64	-21 0.3	1.543	2.489	10.8	18.9	7 10	17 18.01	-32 3.6	1.603	2.545	10.9	19.0
7 20	17 12.86	-21 14.3	1.591	2.469	14.8	19.1	7 20	17 10.74	-31 51.3	1.649	2.522	14.7	19.2
475122	2005 <i>UD</i> ₂₈₇		6 16.9 238°27	0°7/16.9 18			250286 </						

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
171732	2000 <i>WR</i> ₆₅	6 16.9 159°81		0°6/16.9 17			441426	2008 <i>GV</i> ₉₆	6 16.9 325°46		5°4/16.8 18		
5 11	18 13.68	-24 18.9	1.728	2.564	15.5	21.2	5 11	18 9.48	-35 54.3	2.018	2.842	14.0	20.5
5 21	18 8.22	-24 31.4	1.652	2.569	12.0	21.0	5 21	18 5.18	-36 49.7	1.932	2.832	11.4	20.3
5 31	18 0.04	-24 43.1	1.598	2.573	7.9	20.7	5 31	17 58.22	-37 38.7	1.868	2.823	8.5	20.1
6 10	17 49.91	-24 52.1	1.569	2.577	3.4	20.5	6 10	17 49.24	-38 16.5	1.827	2.814	6.1	19.9
6 20	17 38.91	-24 56.8	1.566	2.581	1.6	20.3	6 20	17 39.22	-38 39.3	1.813	2.805	5.6	19.9
6 30	17 28.33	-24 57.1	1.590	2.584	6.1	20.6	6 30	17 29.39	-38 45.5	1.824	2.797	7.5	20.0
7 10	17 19.35	-24 54.2	1.640	2.586	10.4	20.9	7 10	17 20.96	-38 36.6	1.860	2.789	10.4	20.1
7 20	17 12.81	-24 50.3	1.712	2.588	14.1	21.1	7 20	17 14.87	-38 16.4	1.919	2.781	13.4	20.3
328237	2008 <i>FG</i> ₆₂	6 16.9 314°00		1°6/17.1 17			465876	2010 <i>TL</i> ₂₄	6 16.9 136°55		6°8/16.9 17		
5 11	18 10.11	-26 45.3	1.467	2.320	16.9	20.9	5 11	18 16.99	-37 8.7	1.660	2.481	16.6	21.9
5 21	18 6.10	-26 53.5	1.388	2.313	13.2	20.6	5 21	18 11.47	-38 15.9	1.589	2.486	13.5	21.7
5 31	17 59.00	-26 58.4	1.328	2.306	8.8	20.3	5 31	18 2.54	-39 14.3	1.540	2.492	10.2	21.5
6 10	17 49.58	-26 57.8	1.291	2.299	4.0	20.0	6 10	17 51.08	-39 56.7	1.514	2.497	7.5	21.3
6 20	17 39.04	-26 50.0	1.279	2.293	2.2	19.9	6 20	17 38.42	-40 17.9	1.512	2.501	6.9	21.3
6 30	17 28.87	-26 35.2	1.291	2.287	6.9	20.2	6 30	17 26.23	-40 16.6	1.537	2.506	9.0	21.4
7 10	17 20.48	-26 16.0	1.328	2.281	11.7	20.4	7 10	17 16.07	-39 56.0	1.585	2.510	12.1	21.6
7 20	17 14.85	-25 55.6	1.385	2.275	15.9	20.7	7 20	17 8.98	-39 22.2	1.654	2.514	15.3	21.8
509281	2006 <i>VK</i> ₁₀	6 16.9 231°05		2°7/16.5 18			475821	2007 <i>AY</i> ₁₆	6 16.9 158°05		3°2/17.1 17		
5 11	18 6.86	-16 37.4	2.404	3.230	12.0	21.9	5 11	18 6.89	-11 27.8	2.668	3.479	11.3	21.7
5 21	18 2.20	-16 3.8	2.315	3.223	9.4	21.7	5 21	18 2.00	-11 34.0	2.586	3.483	9.0	21.6
5 31	17 55.75	-15 32.1	2.248	3.217	6.4	21.5	5 31	17 55.52	-11 47.0	2.528	3.487	6.3	21.4
6 10	17 48.04	-15 3.5	2.208	3.210	3.6	21.3	6 10	17 47.93	-12 7.0	2.496	3.491	3.9	21.3
6 20	17 39.75	-14 39.3	2.196	3.203	3.0	21.2	6 20	17 39.84	-12 33.9	2.492	3.494	3.3	21.2
6 30	17 31.69	-14 20.7	2.212	3.196	5.5	21.4	6 30	17 31.95	-13 6.8	2.517	3.497	5.2	21.4
7 10	17 24.61	-14 8.5	2.255	3.188	8.6	21.6	7 10	17 24.92	-13 44.8	2.570	3.500	7.9	21.5
7 20	17 19.09	-14 3.1	2.321	3.180	11.5	21.7	7 20	17 19.28	-14 26.6	2.648	3.502	10.4	21.7
65110	2002 <i>CO</i> ₃₇	6 16.9 351°64		2°7/16.9 18			471626	2012 <i>TS</i> ₂₆	6 16.9 41°23		5°2/16.4 17		
5 11	18 4.91	-16 4.2	1.887	2.729	14.1	18.9	5 11	18 6.89	-11 53.2	1.774	2.609	15.2	20.8
5 21	18 1.22	-15 57.6	1.807	2.725	11.0	18.6	5 21	18 2.68	-11 7.3	1.705	2.614	12.1	20.6
5 31	17 55.35	-15 56.1	1.749	2.722	7.5	18.4	5 31	17 56.25	-10 28.2	1.657	2.620	8.7	20.4
6 10	17 47.93	-16 0.4	1.715	2.719	4.0	18.2	6 10	17 48.29	-9 58.8	1.633	2.625	5.9	20.2
6 20	17 39.79	-16 10.4	1.707	2.717	3.0	18.1	6 20	17 39.69	-9 41.0	1.634	2.631	5.4	20.2
6 30	17 31.91	-16 26.2	1.725	2.715	6.1	18.3	6 30	17 31.48	-9 36.0	1.661	2.637	7.8	20.4
7 10	17 25.22	-16 47.2	1.768	2.714	9.8	18.5	7 10	17 24.60	-9 43.8	1.712	2.643	11.0	20.6
7 20	17 20.45	-17 12.8	1.834	2.713	13.1	18.8	7 20	17 19.72	-10 2.7	1.785	2.649	14.1	20.8
14779	3072 <i>T</i> ₂	6 16.9 305°86		0°1/16.9 18 R			17764	Schatzman	6 16.9 231°23		2°5/16.7 18		
5 11	18 7.95	-22 58.0	1.910	2.750	14.0	17.6	5 11	18 9.65	-16 53.3	2.267	3.090	12.7	19.0
5 21	18 3.68	-23 8.4	1.824	2.743	10.9	17.4	5 21	18 4.55	-16 34.3	2.170	3.078	9.9	18.8
5 31	17 57.04	-23 19.3	1.760	2.737	7.1	17.1	5 31	17 57.42	-16 17.7	2.096	3.065	6.8	18.5
6 10	17 48.67	-23 29.5	1.722	2.730	3.0	16.9	6 10	17 48.80	-16 4.5	2.047	3.051	3.6	18.3
6 20	17 39.46	-23 37.9	1.709	2.724	1.3	16.7	6 20	17 39.44	-15 55.2	2.027	3.036	2.8	18.2
6 30	17 30.48	-23 44.2	1.724	2.718	5.6	17.0	6 30	17 30.24	-15 50.4	2.035	3.021	5.7	18.4
7 10	17 22.79	-23 48.9	1.764	2.712	9.6	17.2	7 10	17 22.07	-15 50.7	2.070	3.006	9.1	18.6
7 20	17 17.16	-23 53.2	1.826	2.706	13.1	17.4	7 20	17 15.62	-15 56.4	2.128	2.989	12.3	18.8
319872	2006 <i>WW</i> ₉₁	6 16.9 346°98		1°7/16.8 17			275944	2001 <i>UG</i> ₁₄₈	6 16.9 121°94		1°3/16.8 15		
5 11	18 4.88	-21 6.1	1.170	2.044	18.8	20.1	5 11	18 12.33	-20 4.7	2.220	3.042	13.0	22.5
5 21	18 2.51	-20 47.6	1.098	2.036	14.6	19.8	5 21	18 6.33	-19 53.5	2.153	3.062	10.0	22.3
5 31	17 56.86	-20 29.9	1.045	2.028	9.7	19.5	5 31	17 58.36	-19 43.4	2.110	3.082	6.5	22.2
6 10	17 48.74	-20 13.7	1.012	2.022	4.3	19.1	6 10	17 49.10	-19 34.1	2.094	3.101	2.9	22.0
6 20	17 39.43	-19 59.6	1.002	2.016	2.5	19.0	6 20	17 39.37	-19 25.8	2.106	3.119	1.8	21.9
6 30	17 30.53	-19 48.9	1.014	2.012	7.9	19.3	6 30	17 30.09	-19 18.9	2.146	3.136	5.1	22.2
7 10	17 23.57	-19 43.2	1.048	2.009	13.2	19.6	7 10	17 22.08	-19 14.4	2.214	3.153	8.5	22.4
7 20	17 19.57	-19 43.7	1.101	2.007	17.8	19.8	7 20	17 15.92	-19 12.9	2.306	3.169	11.4	22.6
58859	1998 <i>HD</i> ₉₈	6 16.9 212°12		4°2/17.1 18			347084	2010 <i>GY</i> ₉₆	6 16.9 325°81		0°1/16.9 17		
5 11	18 10.90	-35 50.0	2.595	3.402	11.7	18.7	5 11	18 8.21	-23 22.9	1.857	2.699	14.3	21.4
5 21	18 5.56	-36 26.3	2.506	3.397	9.4	18.6	5 21	18 3.91	-23 29.2	1.775	2.695	11.1	21.2
5 31	17 58.08	-36 56.2	2.440	3.392	6.9	18.4	5 31	17 57.20	-23 35.4	1.715	2.692	7.3	21.0
6 10	17 49.06	-37 16.3	2.400	3.387	4.8	18.3	6 10	17 48.75	-23 40.3	1.680	2.689	3.1	20.7
6 20	17 39.30	-37 24.4	2.388	3.382	4.3	18.2	6 20	17 39.48	-23 43.0	1.671	2.686	1.4	20.5
6 30	17 29.75	-37 19.9	2.403	3.376	6.0	18.3	6 30	17 30.50	-23 43.5	1.689	2.683	5.7	20.8
7 10	17 21.34	-37 4.5	2.446	3.370	8.4	18.5	7 10	17 22.87	-23 42.6	1.731	2.680	9.7	21.1
7 20	17 14.78	-36 40.9	2.512	3.364	10.9	18.6	7 20	17 17.37	-23 41.7	1.797	2.678	13.3	21.3
393998	2005 <i>UN</i> ₄₉₄	6 16.9 272°07		0°4/16.9 18			340505	2006 <i>HG</i> ₁₅₃	6 16.9 330°57		2°2/16.8 17		
5 11	18 7.48	-20 36.5	2.348	3.177	12.1	20.6	5 11	18 7.04	-18 43.3	1.732	2.578	15.0	21.0
5 21	18 2.92	-20 59.7	2.253	3.166	9.4	20.4	5 21	18 3.09	-18 25.5	1.651	2.572	11.7	20.8
5 31	17 56.37	-21 25.6	2.181	3.154	6.2	20.2	5 31	17 56.69	-18 10.0	1.591	2.567	7.8	20.5
6 10	17 48.36	-21 53.1	2.135	3.143	2.6	19.9	6 10	17 48.55	-17 57.6	1.555	2.562	3.8	20.3
6 20	17 39.60	-22 20.9	2.117	3.132	1.2	19.8	6 20	17 39.58	-17 48.9	1.545	2.557	2.6	20.2
6 30	17 30.95	-22 47.9	2.127	3.120	4.9	20.0	6 30	17 30.91	-17 44.5	1.561	2.553	6.4	20.4
7 10	17 23.26	-23 13.7	2.165	3.109	8.3	20.2	7 10	17 23.61	-17 45.2	1.602	2.549	10.5	20.6
7 20	17 17.24	-23 38.4	2.226	3.097	11.5	20.4	7 20	17 18.45	-17 51.3	1.664	2.545	14.1	20.8
201799	2003 <i>WL</i> ₁₆₈	6 16.9 227°46		2°1/17.0 18			315335	2007 <i>TH</i> ₄₁₁	6 16.9 178°60		2°3/16.9 17		
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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V		
393883	2005 <i>TA</i> ₇₅	6 16.9 327°74 10°4/14.6 16						257303	2009 <i>HS</i> ₆₅	6 16.9 119°05 13°8/14.2 18					
5 11	18 4.28	+ 3 16.9	2.121	2.901	14.8	20.7	5 11	18 15.07	- 1 31.0	1.214	2.036	21.5	20.4		
5 21	18 0.40	+ 4 46.5	2.049	2.896	13.0	20.5	5 21	18 9.61	+ 1 3.6	1.166	2.048	18.5	20.2		
5 31	17 54.66	+ 6 2.0	1.998	2.891	11.4	20.4	5 31	18 1.04	+ 3 21.2	1.136	2.060	15.7	20.1		
6 10	17 47.63	+ 6 58.0	1.969	2.886	10.5	20.3	6 10	17 50.35	+ 5 10.3	1.128	2.072	14.0	20.0		
6 20	17 40.00	+ 7 30.7	1.964	2.882	10.5	20.3	6 20	17 38.89	+ 6 22.6	1.141	2.083	14.1	20.1		
6 30	17 32.60	+ 7 38.3	1.981	2.877	11.6	20.4	6 30	17 28.17	+ 6 54.2	1.175	2.094	15.9	20.2		
7 10	17 26.22	+ 7 21.8	2.021	2.873	13.2	20.5	7 10	17 19.51	+ 6 47.8	1.228	2.104	18.5	20.4		
7 20	17 21.45	+ 6 44.1	2.080	2.869	15.1	20.6	7 20	17 13.72	+ 6 10.0	1.298	2.113	21.1	20.6		
12463	1997 <i>AL</i> ₇	6 16.9 4°38 3°3/16.9 18						426229	2012 <i>MW</i> ₈	6 16.9 53°72 1°5/17.3 17					
5 11	18 7.94	-16 38.5	1.322	2.181	18.0	16.9	5 11	18 12.77	-29 48.6	1.556	2.398	16.6	20.0		
5 21	18 4.38	-16 23.6	1.253	2.180	14.1	16.7	5 21	18 7.63	-29 14.1	1.490	2.409	12.9	19.8		
5 31	17 57.83	-16 14.7	1.203	2.180	9.6	16.4	5 31	17 59.63	-28 30.5	1.445	2.420	8.6	19.6		
6 10	17 49.09	-16 13.1	1.175	2.181	5.0	16.2	6 10	17 49.72	-27 37.4	1.423	2.431	3.9	19.4		
6 20	17 39.35	-16 19.0	1.171	2.182	3.7	16.1	6 20	17 39.17	-26 35.9	1.428	2.442	2.0	19.2		
6 30	17 30.05	-16 32.5	1.191	2.184	7.8	16.3	6 30	17 29.36	-25 29.9	1.459	2.454	6.3	19.6		
7 10	17 22.51	-16 53.1	1.234	2.186	12.4	16.6	7 10	17 21.46	-24 24.3	1.515	2.465	10.7	19.8		
7 20	17 17.67	-17 19.9	1.297	2.189	16.6	16.9	7 20	17 16.20	-23 23.8	1.593	2.477	14.5	20.1		
504087	2006 <i>BU</i> ₂₈₁	6 16.9 220°24 4°5/17.5 18						442135	2010 <i>UK</i> ₆₉	6 16.9 288°34 1°4/16.7 18					
5 11	18 13.93	-35 46.3	2.083	2.897	14.0	22.0	5 11	18 6.45	-20 48.8	2.322	3.154	12.1	20.8		
5 21	18 8.34	-36 6.2	1.994	2.891	11.2	21.8	5 21	18 2.01	-20 19.1	2.233	3.147	9.4	20.6		
5 31	18 0.12	-36 17.3	1.928	2.884	8.2	21.6	5 31	17 55.69	-19 48.7	2.167	3.141	6.2	20.3		
6 10	17 49.98	-36 15.9	1.886	2.878	5.4	21.4	6 10	17 48.07	-19 18.4	2.128	3.135	2.9	20.1		
6 20	17 38.96	-35 59.8	1.871	2.870	4.6	21.3	6 20	17 39.86	-18 49.1	2.116	3.129	1.9	20.0		
6 30	17 28.29	-35 29.1	1.883	2.863	6.7	21.5	6 30	17 31.90	-18 22.2	2.132	3.122	5.1	20.2		
7 10	17 19.14	-34 46.9	1.921	2.855	9.9	21.6	7 10	17 24.99	-17 59.1	2.175	3.116	8.4	20.4		
7 20	17 12.33	-33 58.0	1.983	2.847	12.9	21.8	7 20	17 19.73	-17 41.0	2.241	3.110	11.5	20.6		
311360	2005 <i>SD</i> ₃₀	6 16.9 299°45 6°3/16.7 18						379152	2009 <i>PE</i> ₂₁	6 16.9 305°42 0°9/16.9 17					
5 11	18 11.39	-38 18.4	2.086	2.899	14.0	20.3	5 11	18 8.31	-22 49.6	1.429	2.287	17.0	21.0		
5 21	18 6.86	-39 17.6	1.984	2.875	11.6	20.1	5 21	18 4.87	-22 28.0	1.337	2.265	13.3	20.7		
5 31	17 59.49	-40 9.9	1.905	2.851	9.0	19.9	5 31	17 58.35	-22 4.2	1.264	2.244	8.9	20.4		
6 10	17 49.86	-40 49.7	1.849	2.827	6.8	19.7	6 10	17 49.43	-21 38.1	1.213	2.223	3.8	20.0		
6 20	17 38.95	-41 12.6	1.819	2.803	6.5	19.6	6 20	17 39.21	-21 10.4	1.187	2.202	2.0	19.8		
6 30	17 28.05	-41 16.2	1.815	2.779	8.2	19.7	6 30	17 29.14	-20 42.7	1.186	2.182	7.3	20.1		
7 10	17 18.51	-41 2.1	1.836	2.755	11.1	19.8	7 10	17 20.70	-20 17.8	1.207	2.162	12.4	20.3		
7 20	17 11.38	-40 34.1	1.878	2.732	14.0	19.9	7 20	17 14.97	-19 58.3	1.249	2.142	17.0	20.5		
23825	1998 <i>QD</i> ₇₃	6 16.9 328°18 8°0/15.7 18						146828	2001 <i>YL</i> ₁₅₅	6 16.9 226°91 4°8/16.8 18 R					
5 11	18 5.03	- 7 11.5	1.639	2.472	16.3	18.1	5 11	18 11.35	-35 15.6	2.279	3.093	12.9	19.5		
5 21	18 1.56	- 6 0.8	1.560	2.462	13.5	17.9	5 21	18 6.25	-36 10.8	2.196	3.092	10.4	19.3		
5 31	17 55.72	- 4 59.5	1.502	2.452	10.6	17.7	5 31	17 58.74	-37 0.1	2.136	3.090	7.7	19.1		
6 10	17 48.16	- 4 12.6	1.467	2.443	8.4	17.6	6 10	17 49.44	-37 39.4	2.102	3.088	5.4	19.0		
6 20	17 39.77	- 3 44.0	1.455	2.435	8.2	17.5	6 20	17 39.25	-38 5.3	2.094	3.086	4.9	19.0		
6 30	17 31.64	- 3 36.2	1.467	2.426	10.2	17.6	6 30	17 29.27	-38 16.5	2.113	3.085	6.7	19.1		
7 10	17 24.81	- 3 48.9	1.502	2.419	13.2	17.8	7 10	17 20.58	-38 14.3	2.158	3.083	9.4	19.2		
7 20	17 20.07	- 4 19.5	1.557	2.412	16.3	18.0	7 20	17 13.97	-38 1.7	2.227	3.081	12.1	19.4		
305455	2008 <i>DQ</i> ₆	6 16.9 215°87 3°3/17.4 18						191738	2004 <i>RR</i> ₃₃₃	6 16.9 311°11 8°5/17.1 18					
5 11	18 10.38	-33 23.8	2.327	3.145	12.6	21.3	5 11	18 6.83	- 3 18.6	1.656	2.474	16.8	19.7		
5 21	18 5.24	-33 35.9	2.241	3.142	10.0	21.1	5 21	18 2.98	- 2 44.4	1.576	2.465	14.1	19.4		
5 31	17 57.89	-33 41.1	2.177	3.139	7.0	20.9	5 31	17 56.69	- 2 25.6	1.516	2.457	11.3	19.3		
6 10	17 49.00	-33 37.1	2.139	3.136	4.2	20.7	6 10	17 48.62	- 2 26.4	1.478	2.448	9.0	19.1		
6 20	17 39.42	-33 22.3	2.128	3.133	3.4	20.7	6 20	17 39.66	- 2 48.8	1.464	2.440	8.6	19.1		
6 30	17 30.16	-32 57.4	2.145	3.129	5.6	20.8	6 30	17 30.92	- 3 33.0	1.474	2.433	10.3	19.1		
7 10	17 22.16	-32 24.5	2.189	3.126	8.6	21.0	7 10	17 23.48	- 4 36.0	1.507	2.425	13.1	19.3		
7 20	17 16.12	-31 46.9	2.256	3.122	11.5	21.1	7 20	17 18.14	- 5 53.5	1.561	2.418	16.2	19.5		
126540	2002 <i>CV</i> ₉₁	6 16.9 169°96 1°2/17.1 17						316648	2011 <i>YU</i> ₅₇	6 16.9 205°32 1°6/16.9 18					
5 11	18 11.88	-26 41.6	2.177	3.002	13.1	21.2	5 11	18 6.44	-17 0.6	2.789	3.608	10.7	21.1		
5 21	18 6.36	-26 51.9	2.095	3.005	10.1	21.0	5 21	18 1.71	-17 9.1	2.698	3.605	8.3	20.9		
5 31	17 58.61	-26 59.5	2.037	3.008	6.7	20.8	5 31	17 55.39	-17 21.1	2.632	3.601	5.5	20.7		
6 10	17 49.30	-27 2.6	2.004	3.011	3.0	20.6	6 10	17 47.95	-17 36.3	2.592	3.597	2.7	20.5		
6 20	17 39.30	-27 0.3	1.999	3.013	1.7	20.5	6 20	17 39.98	-17 54.2	2.581	3.593	1.8	20.5		
6 30	17 29.62	-26 52.5	2.022	3.014	5.2	20.8	6 30	17 32.15	-18 14.5	2.600	3.588	4.4	20.6		
7 10	17 21.22	-26 40.8	2.073	3.015	8.7	21.0	7 10	17 25.14	-18 36.8	2.646	3.584	7.3	20.8		
7 20	17 14.80	-26 27.2	2.147	3.015	11.9	21.2	7 20	17 19.48	-19 0.8	2.717	3.579	9.9	21.0		
100144	1993 <i>TM</i> ₁₄	6 16.9 242°44 0°4/16.9 17						170880	2004 <i>PH</i> ₈₅	6 16.9 308°90 4°7/16.7 18					
5 11	18 13.55	-24 9.5	1.808	2.642	15.0	20.9	5 11	18 6.58	-15 25.6	1.181	2.048	19.2	19.7		
5 21	18 8.31	-24 15.1	1.711	2.626	11.7	20.7	5 21	18 4.21	-14 59.7	1.085	2.017	15.4	19.3		
5 31	18 0.30	-24 19.8	1.635	2.610	7.8	20.4	5 31	17 58.39	-14 40.2	1.007	1.985	10.9	19.0		
6 10	17 50.16	-24 22.0	1.584	2.592	3.3	20.1	6 10	17 49.66	-14 29.8	0.950	1.954	6.2	18.6		
6 20	17 38.88	-24 20.2	1.560	2.575	1.5	19.9	6 20	17 39.11	-14 30.7	0.914	1.923	5.1	18.5		
6 30	17 27.73	-24 14.5	1.563	2.556	6.2	20.2	6 30	17 28.36	-14 44.4	0.900	1.893	9.6	18.6		
7 10	17 17.99	-24 6.1	1.591	2.537	10.7	20.4	7 10	17 19.23	-15 10.9	0.907	1.863	15.3	18.8		
7 20	17 10.62	-23 57.3	1.643	2.517	14.6	20.6	7 20	17 13.14	-15 49.0	0.932	1.835	20.6	19.0		
109299	2001 <i>QJ</i> ₁₂₈	6 16.9 244°19 1°3/16.8 18						43342	2000 <i>RO</i> ₆₇	6 16.9 167°70 5°3/16.4 18					
5 11	18 10.74	-21 18.4	1.860	2.696	14.5	20.1	5 11	18 13.34	-36 44.0	2.457	3.261	12.4	18.0		
5 21	18 5.87	-20 55.7													

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
75717	2000 <i>AU</i> ₁₂₀		6 16.9 210°26	3°9/16.7	18		276473	2003 <i>KG</i> ₁₂		6 16.9 22°76	9°8/13.7	18	
5 11	18 7.97	-11 49.4	2.323	3.140	12.6	20.3	5 11	18 6.45	-0 38.9	2.048	2.843	14.8	19.9
5 21	18 3.14	-11 29.9	2.235	3.135	10.0	20.1	5 21	18 2.03	+1 21.4	1.984	2.847	12.8	19.7
5 31	17 56.45	-11 16.6	2.170	3.129	7.2	19.9	5 31	17 55.72	+3 10.4	1.942	2.851	11.0	19.6
6 10	17 48.43	-11 10.7	2.130	3.124	4.7	19.7	6 10	17 48.12	+4 42.0	1.924	2.855	9.9	19.5
6 20	17 39.78	-11 13.1	2.118	3.117	4.1	19.7	6 20	17 39.98	+5 51.3	1.931	2.859	10.1	19.6
6 30	17 31.32	-11 24.0	2.134	3.111	6.3	19.8	6 30	17 32.17	+6 35.3	1.962	2.864	11.3	19.6
7 10	17 23.85	-11 43.1	2.176	3.104	9.2	20.0	7 10	17 25.48	+6 54.2	2.016	2.869	13.2	19.8
7 20	17 17.98	-12 9.3	2.242	3.096	12.0	20.1	7 20	17 20.50	+6 50.4	2.089	2.875	15.1	19.9
510066	2010 <i>HG</i> ₇₄		6 16.9 27°06	0°4/16.9	17		274818	2009 <i>NX</i> ₁		6 16.9 298°25	0°8/17.0	17	
5 11	18 7.73	-23 28.5	1.911	2.752	14.0	21.1	5 11	18 9.58	-24 54.5	1.489	2.341	16.7	21.0
5 21	18 3.44	-23 45.8	1.836	2.756	10.8	20.9	5 21	18 5.92	-25 1.9	1.393	2.318	13.1	20.7
5 31	17 56.85	-24 3.4	1.784	2.760	7.1	20.7	5 31	17 59.13	-25 8.3	1.317	2.295	8.7	20.4
6 10	17 48.64	-24 19.9	1.756	2.765	3.0	20.4	6 10	17 49.85	-25 11.5	1.264	2.272	3.8	20.0
6 20	17 39.69	-24 33.7	1.755	2.770	1.3	20.3	6 20	17 39.15	-25 10.0	1.235	2.250	1.8	19.8
6 30	17 31.08	-24 44.5	1.781	2.775	5.5	20.6	6 30	17 28.53	-25 3.4	1.231	2.227	7.1	20.1
7 10	17 23.79	-24 52.7	1.832	2.781	9.3	20.9	7 10	17 19.48	-24 53.3	1.251	2.205	12.2	20.3
7 20	17 18.54	-24 59.4	1.906	2.786	12.6	21.1	7 20	17 13.15	-24 42.5	1.291	2.183	16.7	20.5
480521	2015 <i>MC</i> ₉		6 16.9 283°99	2°2/17.5	18		494289	2016 <i>RM</i> ₁₅		6 16.9 149°44	0°8/16.9	18	
5 11	18 9.96	-31 44.7	2.272	3.094	12.7	21.0	5 11	18 8.71	-22 16.4	2.612	3.434	11.2	21.8
5 21	18 4.93	-31 26.8	2.177	3.083	10.0	20.8	5 21	18 3.45	-21 53.8	2.532	3.442	8.6	21.6
5 31	17 57.72	-31 1.0	2.105	3.073	6.8	20.6	5 31	17 56.49	-21 30.1	2.476	3.449	5.6	21.4
6 10	17 48.97	-30 26.0	2.059	3.062	3.6	20.3	6 10	17 48.41	-21 5.5	2.448	3.455	2.4	21.2
6 20	17 39.55	-29 41.8	2.040	3.051	2.4	20.2	6 20	17 39.89	-20 40.5	2.448	3.462	1.3	21.1
6 30	17 30.46	-28 50.0	2.050	3.041	5.2	20.4	6 30	17 31.67	-20 16.2	2.477	3.468	4.4	21.4
7 10	17 22.62	-27 53.7	2.087	3.030	8.6	20.6	7 10	17 24.47	-19 53.9	2.533	3.473	7.5	21.6
7 20	17 16.73	-26 56.7	2.148	3.019	11.8	20.8	7 20	17 18.81	-19 34.8	2.615	3.478	10.2	21.7
231901	2000 <i>XV</i> ₂₂		6 16.9 167°18	3°6/16.9	18		342254	2008 <i>SZ</i> ₂₉₅		6 16.9 212°92	0°9/17.0	18	
5 11	18 13.89	-32 6.2	2.262	3.077	13.0	20.9	5 11	18 10.95	-18 53.1	2.223	3.047	12.9	21.0
5 21	18 8.07	-32 53.7	2.182	3.081	10.3	20.7	5 21	18 5.69	-19 18.9	2.131	3.041	10.0	20.8
5 31	17 59.86	-33 36.7	2.124	3.085	7.2	20.5	5 31	17 58.28	-19 49.0	2.063	3.035	6.6	20.6
6 10	17 49.91	-34 11.4	2.092	3.088	4.5	20.3	6 10	17 49.29	-20 22.0	2.021	3.028	2.9	20.3
6 20	17 39.14	-34 35.0	2.089	3.091	3.8	20.3	6 20	17 39.49	-20 56.3	2.007	3.021	1.5	20.2
6 30	17 28.62	-34 46.2	2.113	3.093	6.1	20.5	6 30	17 29.82	-21 30.7	2.021	3.013	5.2	20.5
7 10	17 19.41	-34 46.3	2.164	3.094	9.1	20.6	7 10	17 21.23	-22 4.2	2.063	3.005	8.8	20.7
7 20	17 12.29	-34 38.1	2.239	3.096	11.9	20.8	7 20	17 14.44	-22 36.8	2.130	2.997	12.0	20.9
183647	2003 <i>WU</i> ₆₃		6 16.9 207°15	0°1/16.9	17		37664	1994 <i>PF</i> ₃₉		6 16.9 251°41	7°0/16.5	18	
5 11	18 13.01	-23 20.7	1.907	2.738	14.4	21.8	5 11	18 5.51	-1 11.5	2.547	3.332	12.5	20.0
5 21	18 7.58	-23 19.4	1.819	2.733	11.2	21.6	5 21	18 1.13	-0 36.4	2.456	3.320	10.6	19.8
5 31	17 59.64	-23 17.3	1.753	2.728	7.4	21.3	5 31	17 55.10	-0 12.6	2.387	3.307	8.7	19.7
6 10	17 49.85	-23 13.3	1.713	2.721	3.1	21.1	6 10	17 47.89	-0 2.8	2.342	3.293	7.3	19.6
6 20	17 39.17	-23 6.7	1.700	2.715	1.4	20.9	6 20	17 40.11	-0 8.6	2.323	3.280	7.1	19.5
6 30	17 28.77	-22 57.8	1.714	2.707	5.8	21.2	6 30	17 32.44	-0 30.8	2.330	3.266	8.3	19.6
7 10	17 19.76	-22 48.0	1.755	2.699	9.9	21.4	7 10	17 25.59	-1 8.0	2.363	3.252	10.2	19.7
7 20	17 12.95	-22 39.2	1.818	2.690	13.5	21.6	7 20	17 20.12	-1 58.1	2.418	3.238	12.3	19.8
389020	2008 <i>UR</i> ₂₂₇		6 16.9 232°92	1°5/17.1	17		470686	2008 <i>SA</i> ₂₈₈		6 16.9 323°13	5°7/16.8	18	
5 11	18 10.52	-27 6.8	2.091	2.921	13.4	21.9	5 11	18 6.53	-32 26.0	1.306	2.167	18.1	21.1
5 21	18 5.56	-27 19.9	2.001	2.914	10.4	21.7	5 21	18 4.47	-33 16.3	1.206	2.132	14.7	20.8
5 31	17 58.26	-27 30.3	1.934	2.907	6.9	21.5	5 31	17 58.76	-34 2.8	1.125	2.097	10.7	20.4
6 10	17 49.26	-27 36.1	1.892	2.899	3.2	21.2	6 10	17 49.92	-34 39.6	1.064	2.064	6.9	20.1
6 20	17 39.43	-27 35.8	1.878	2.891	1.9	21.1	6 20	17 39.10	-35 0.3	1.026	2.031	6.0	20.0
6 30	17 29.83	-27 29.5	1.891	2.883	5.5	21.3	6 30	17 28.09	-35 1.3	1.010	1.999	9.5	20.1
7 10	17 21.50	-27 18.4	1.930	2.875	9.2	21.5	7 10	17 18.86	-34 43.9	1.015	1.968	14.4	20.2
7 20	17 15.19	-27 4.8	1.993	2.866	12.5	21.7	7 20	17 12.96	-34 13.2	1.039	1.939	19.2	20.4
78331	2002 <i>PQ</i> ₈₄		6 16.9 284°42	4°4/16.8	18		341715	2007 <i>VF</i> ₁₉₅		6 16.9 223°36	0°3/17.0	18	
5 11	18 7.39	-11 38.2	1.994	2.820	14.1	19.6	5 11	18 9.53	-24 39.6	2.299	3.126	12.4	21.9
5 21	18 3.19	-11 22.9	1.893	2.799	11.3	19.3	5 21	18 4.53	-24 37.2	2.207	3.119	9.6	21.7
5 31	17 56.77	-11 15.2	1.815	2.777	8.1	19.1	5 31	17 57.46	-24 33.2	2.138	3.112	6.3	21.5
6 10	17 48.68	-11 16.8	1.761	2.755	5.3	18.9	6 10	17 48.92	-24 26.4	2.096	3.104	2.7	21.3
6 20	17 39.66	-11 28.6	1.733	2.734	4.6	18.8	6 20	17 39.68	-24 16.6	2.081	3.096	1.2	21.1
6 30	17 30.69	-11 50.8	1.731	2.711	7.1	18.9	6 30	17 30.67	-24 4.1	2.095	3.088	4.9	21.4
7 10	17 22.77	-12 22.6	1.755	2.689	10.6	19.0	7 10	17 22.76	-23 50.2	2.135	3.079	8.5	21.6
7 20	17 16.67	-13 2.5	1.802	2.667	14.0	19.2	7 20	17 16.65	-23 36.5	2.200	3.070	11.6	21.8
142085	2002 <i>QB</i> ₄₈		6 16.9 276°08	0°9/16.9	18		196917	2003 <i>TD</i> ₄₈		6 16.9 149°45	1°2/16.8	18	
5 11	18 10.75	-21 2.4	1.637	2.480	15.8	21.2	5 11	18 9.94	-20 14.1	2.631	3.449	11.3	21.5
5 21	18 6.44	-21 2.2	1.539	2.460	12.4	20.9	5 21	18 4.35	-19 58.5	2.553	3.460	8.7	21.3
5 31	17 59.26	-21 3.7	1.462	2.439	8.3	20.6	5 31	17 57.08	-19 43.3	2.499	3.470	5.7	21.1
6 10	17 49.83	-21 6.3	1.409	2.418	3.6	20.3	6 10	17 48.67	-19 28.6	2.473	3.480	2.6	21.0
6 20	17 39.15	-21 9.2	1.382	2.397	1.8	20.1	6 20	17 39.82	-19 14.7	2.476	3.489	1.6	20.9
6 30	17 28.53	-21 12.3	1.381	2.375	6.7	20.4	6 30	17 31.28	-19 2.4	2.508	3.497	4.5	21.1
7 10	17 19.33	-21 16.4	1.404	2.353	11.5	20.6	7 10	17 23.75	-18 52.3	2.567	3.505	7.5	21.3
7 20	17 12.57	-21 22.6	1.449	2.331	15.8	20.8	7 20	17 17.75	-18 45.3	2.652	3.512	10.2	21.5
157879	1999 <i>NR</i>												

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
274137	Angelaglinos		6 16.9 347°98	0°1/17.0	18		45048	1999 XB ₂₁		6 17.0 197°13	0°8/17.0	18	
5 11	18 7.54	-26 10.4	1.934	2.774	13.9	19.2	5 11	18 12.95	-24 9.6	1.757	2.593	15.2	19.6
5 21	18 3.29	-25 37.5	1.851	2.770	10.7	19.0	5 21	18 7.82	-24 31.0	1.675	2.592	11.8	19.4
5 31	17 56.75	-24 59.6	1.790	2.766	7.1	18.8	5 31	17 59.96	-24 52.7	1.615	2.590	7.8	19.2
6 10	17 48.64	-24 16.7	1.754	2.763	3.0	18.5	6 10	17 50.10	-25 12.2	1.579	2.587	3.4	18.9
6 20	17 39.85	-23 30.0	1.745	2.760	1.3	18.4	6 20	17 39.26	-25 27.6	1.570	2.585	1.6	18.7
6 30	17 31.45	-22 41.7	1.763	2.757	5.5	18.7	6 30	17 28.70	-25 38.0	1.588	2.582	6.1	19.0
7 10	17 24.39	-21 54.9	1.807	2.756	9.4	18.9	7 10	17 19.66	-25 44.1	1.631	2.578	10.4	19.3
7 20	17 19.37	-21 12.3	1.874	2.754	12.8	19.1	7 20	17 13.01	-25 47.8	1.697	2.574	14.1	19.5
442104	2010 TQ ₉₈		6 16.9 270°78	0°7/16.9	18		508173	2015 FJ ₂₂₅		6 17.0 244°13	5°0/16.9	18	
5 11	18 6.93	-21 13.6	2.429	3.258	11.8	22.4	5 11	18 13.56	-34 12.7	1.867	2.692	15.0	21.0
5 21	18 2.47	-21 10.3	2.329	3.242	9.1	22.2	5 21	18 8.53	-35 3.6	1.782	2.685	12.0	20.8
5 31	17 56.12	-21 7.5	2.252	3.226	6.0	22.0	5 31	18 0.58	-35 48.4	1.719	2.678	8.8	20.6
6 10	17 48.38	-21 5.0	2.202	3.210	2.6	21.7	6 10	17 50.41	-36 22.3	1.680	2.672	5.9	20.4
6 20	17 39.95	-21 2.6	2.179	3.194	1.3	21.6	6 20	17 39.11	-36 41.0	1.666	2.665	5.2	20.4
6 30	17 31.64	-21 0.5	2.185	3.177	4.8	21.8	6 30	17 28.04	-36 43.2	1.679	2.657	7.5	20.5
7 10	17 24.27	-20 59.2	2.217	3.161	8.2	22.0	7 10	17 18.56	-36 30.8	1.717	2.650	10.9	20.7
7 20	17 18.49	-20 59.7	2.274	3.144	11.3	22.2	7 20	17 11.62	-36 7.8	1.777	2.643	14.1	20.9
248845	2006 TJ ₂₆		6 16.9 142°42	2°6/16.7	17		80759	2000 CL ₅₃		6 17.0 114°37	0°3/16.9	18	
5 11	18 7.13	-16 36.8	2.340	3.166	12.2	21.0	5 11	18 12.54	-22 45.9	1.733	2.571	15.4	19.9
5 21	18 2.44	-16 9.3	2.261	3.170	9.5	20.8	5 21	18 7.25	-22 43.8	1.665	2.582	11.8	19.7
5 31	17 55.96	-15 44.5	2.205	3.174	6.5	20.6	5 31	17 59.40	-22 41.5	1.618	2.593	7.7	19.5
6 10	17 48.26	-15 23.2	2.175	3.177	3.6	20.4	6 10	17 49.77	-22 38.0	1.595	2.604	3.3	19.2
6 20	17 40.04	-15 6.5	2.173	3.181	2.9	20.4	6 20	17 39.44	-22 32.8	1.600	2.614	1.4	19.1
6 30	17 32.10	-14 55.2	2.199	3.184	5.4	20.6	6 30	17 29.59	-22 26.2	1.631	2.625	5.9	19.4
7 10	17 25.20	-14 49.9	2.251	3.187	8.5	20.8	7 10	17 21.33	-22 19.7	1.687	2.635	10.0	19.7
7 20	17 19.90	-14 50.6	2.327	3.190	11.3	21.0	7 20	17 15.40	-22 14.8	1.767	2.644	13.6	19.9
271691	2004 RW ₁₀₆		6 16.9 258°54	0°5/17.0	17		128373	Kevinjohnson		6 17.0 306°47	5°3/17.0	18	
5 11	18 10.55	-25 3.5	1.868	2.705	14.4	21.2	5 11	18 5.99	-8 24.9	2.068	2.888	13.9	19.6
5 21	18 5.86	-25 2.0	1.777	2.694	11.2	21.0	5 21	18 1.91	-8 9.4	1.983	2.880	11.2	19.4
5 31	17 58.63	-24 58.4	1.708	2.683	7.4	20.7	5 31	17 55.82	-8 3.8	1.919	2.873	8.4	19.2
6 10	17 49.52	-24 51.4	1.663	2.671	3.2	20.5	6 10	17 48.29	-8 9.9	1.880	2.866	6.0	19.0
6 20	17 39.47	-24 40.2	1.645	2.660	1.4	20.3	6 20	17 40.06	-8 28.6	1.866	2.859	5.4	19.0
6 30	17 29.66	-24 25.3	1.654	2.648	5.8	20.6	6 30	17 32.01	-8 59.5	1.879	2.852	7.3	19.1
7 10	17 21.22	-24 8.5	1.688	2.636	10.0	20.8	7 10	17 25.00	-9 41.4	1.917	2.845	10.2	19.2
7 20	17 14.98	-23 52.0	1.746	2.624	13.7	21.0	7 20	17 19.71	-10 31.8	1.978	2.838	13.1	19.4
285155	1995 VF ₄		6 16.9 356°93	1°3/16.9	17		148106	1999 RV ₁₀₂		6 17.0 313°56	1°1/17.2	18	
5 11	18 9.57	-23 12.0	1.298	2.159	18.1	20.2	5 11	18 7.44	-27 33.2	1.902	2.743	14.1	19.2
5 21	18 6.06	-23 57.4	1.227	2.157	14.1	19.9	5 21	18 3.58	-27 20.0	1.799	2.718	11.0	18.9
5 31	17 59.25	-24 46.7	1.175	2.155	9.3	19.6	5 31	17 57.22	-27 1.5	1.717	2.693	7.4	18.7
6 10	17 49.90	-25 36.1	1.145	2.154	4.1	19.3	6 10	17 48.98	-26 36.6	1.660	2.668	3.3	18.4
6 20	17 39.29	-26 21.3	1.139	2.154	2.2	19.2	6 20	17 39.75	-26 5.0	1.629	2.643	1.7	18.2
6 30	17 29.02	-26 59.3	1.158	2.154	7.4	19.5	6 30	17 30.66	-25 27.9	1.624	2.619	5.8	18.4
7 10	17 20.65	-27 29.7	1.199	2.155	12.4	19.8	7 10	17 22.85	-24 48.0	1.645	2.596	10.0	18.6
7 20	17 15.26	-27 53.8	1.260	2.156	16.7	20.1	7 20	17 17.18	-24 8.7	1.689	2.572	13.8	18.8
294110	2007 TR ₂₃₃		6 16.9 240°18	0°4/17.0	17		254239	2004 RC ₁₄₀		6 17.0 306°49	3°0/16.8	18	
5 11	18 9.02	-24 1.0	2.157	2.988	13.0	21.1	5 11	18 5.40	-14 57.7	2.154	2.986	13.0	20.5
5 21	18 4.30	-24 12.0	2.068	2.983	10.0	20.9	5 21	18 1.47	-14 44.2	2.061	2.972	10.2	20.3
5 31	17 57.41	-24 22.6	2.002	2.977	6.6	20.7	5 31	17 55.56	-14 35.6	1.991	2.959	7.1	20.1
6 10	17 48.95	-24 31.4	1.962	2.970	2.8	20.4	6 10	17 48.21	-14 32.7	1.945	2.946	4.0	19.9
6 20	17 39.73	-24 37.4	1.949	2.964	1.3	20.3	6 20	17 40.13	-14 36.0	1.927	2.934	3.3	19.8
6 30	17 30.72	-24 40.4	1.964	2.957	5.1	20.5	6 30	17 32.21	-14 45.9	1.935	2.921	6.0	19.9
7 10	17 22.86	-24 41.1	2.005	2.951	8.8	20.8	7 10	17 25.29	-15 2.0	1.969	2.909	9.3	20.1
7 20	17 16.88	-24 40.8	2.070	2.944	12.1	21.0	7 20	17 20.05	-15 24.0	2.027	2.897	12.4	20.3
257290	2009 HS ₄₁		6 16.9 313°14	2°8/16.8	18		212670	2006 UB ₃₂₂		6 17.0 355°15	0°9/17.1	17	
5 11	18 10.18	-25 58.2	1.325	2.184	18.0	20.1	5 11	18 8.11	-25 6.7	1.948	2.787	13.9	20.4
5 21	18 6.80	-26 50.9	1.242	2.170	14.1	19.9	5 21	18 3.81	-25 19.8	1.868	2.786	10.7	20.2
5 31	17 59.94	-27 46.0	1.178	2.156	9.6	19.6	5 31	17 57.19	-25 31.9	1.810	2.785	7.1	19.9
6 10	17 50.30	-28 38.8	1.136	2.143	4.7	19.2	6 10	17 48.90	-25 41.2	1.777	2.785	3.1	19.7
6 20	17 39.08	-29 24.0	1.118	2.130	3.3	19.1	6 20	17 39.85	-25 46.5	1.770	2.784	1.5	19.6
6 30	17 27.98	-29 58.1	1.124	2.118	8.0	19.3	6 30	17 31.08	-25 47.7	1.790	2.784	5.5	19.8
7 10	17 18.71	-30 20.9	1.153	2.107	13.0	19.6	7 10	17 23.63	-25 45.7	1.836	2.784	9.3	20.1
7 20	17 12.55	-30 34.7	1.202	2.095	17.5	19.8	7 20	17 18.21	-25 42.1	1.904	2.784	12.7	20.3
112027	2002 HL ₅		6 16.9 2°07	2°0/17.1	18		267446	2002 CH ₃₁₄		6 17.0 12°26	3°6/16.9	17	
5 11	18 6.35	-17 38.2	1.116	1.989	19.6	18.6	5 11	18 5.39	-15 55.3	1.311	2.174	17.9	20.0
5 21	18 3.78	-17 55.8	1.051	1.987	15.3	18.3	5 21	18 2.41	-15 38.3	1.248	2.177	14.0	19.8
5 31	17 57.81	-18 22.3	1.004	1.987	10.2	18.1	5 31	17 56.57	-15 28.2	1.204	2.181	9.6	19.5
6 10	17 49.31	-18 56.9	0.978	1.987	4.7	17.7	6 10	17 48.70	-15 26.5	1.182	2.187	5.2	19.3
6 20	17 39.57	-19 37.3	0.974	1.988	2.7	17.6	6 20	17 39.94	-15 33.5	1.183	2.193	4.0	19.2
6 30	17 30.26	-20 21.0	0.993	1.991	7.9	17.9	6 30	17 31.66	-15 49.4	1.208	2.201	7.7	19.5
7 10	17 22.96	-21 6.0	1.033	1.994	13.2	18.2	7 10	17 25.11	-16 13.1	1.256	2.209	12.1	19.7
7 20	17 18.72	-21 50.8	1.092	1.999	17.8	18.5	7 20	17 21.11	-16 43.3	1.323	2.219	16.1	20.0
270444	2002 CG ₁₄₅		6 17.0 109°82	5°7/16.8	17		12653	2664 T-3		6 17.0 188°69	1°5/17.1	18	
5 11	18 9.58	-8 18.1											