

EPHEMERIDES

5 30.9

5 31.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
154004	Haolei		5 30.9 222°41'	3°1'/30.2 18			146998	2002 PS ₉₃		5 31.0 283°33'	1°4'/30.6 18		
4 21	17 2.49	-12 57.6	2.130	2.924	14.2	20.1	5 1	16 57.83	-19 9.3	1.567	2.463	13.4	20.7
5 1	16 57.87	-12 53.1	2.032	2.915	11.4	19.9	5 11	16 51.55	-18 59.1	1.479	2.438	9.5	20.4
5 11	16 50.93	-12 51.7	1.955	2.905	8.2	19.6	5 21	16 42.76	-18 47.2	1.413	2.413	5.0	20.1
5 21	16 42.16	-12 54.5	1.903	2.895	4.9	19.4	5 31	16 32.33	-18 34.5	1.374	2.387	1.4	19.8
5 31	16 32.31	-13 2.9	1.879	2.885	3.1	19.3	6 10	16 21.53	-18 23.0	1.360	2.360	5.5	20.0
6 10	16 22.35	-13 17.7	1.883	2.874	5.4	19.4	6 20	16 11.69	-18 15.1	1.371	2.334	10.5	20.2
6 20	16 13.23	-13 39.4	1.914	2.862	8.9	19.6	6 30	16 3.97	-18 13.6	1.405	2.307	15.0	20.4
6 30	16 5.77	-14 8.3	1.969	2.850	12.3	19.8	7 10	15 59.18	-18 20.6	1.458	2.280	18.9	20.6
247117	2000 UJ ₆₃		5 30.9 221°88'	1°6'/30.4 17			299401	2005 YH ₃		5 31.0 128°91'	0°3'/31.1 17		
4 21	17 2.23	-21 0.2	1.732	2.540	16.4	20.7	5 1	17 0.31	-23 19.1	1.416	2.312	14.7	21.6
5 1	16 58.23	-20 21.2	1.640	2.533	13.1	20.5	5 11	16 53.09	-23 10.5	1.360	2.319	10.3	21.4
5 11	16 51.46	-19 35.9	1.568	2.527	9.2	20.2	5 21	16 43.37	-22 55.6	1.327	2.326	5.3	21.1
5 21	16 42.50	-18 45.6	1.520	2.519	4.8	19.9	5 31	16 32.33	-22 35.0	1.318	2.332	0.3	20.7
5 31	16 32.31	-17 53.0	1.499	2.511	1.6	19.7	6 10	16 21.44	-22 11.0	1.336	2.338	5.2	21.1
6 10	16 22.13	-17 2.3	1.504	2.503	5.4	19.9	6 20	16 12.05	-21 47.2	1.378	2.344	10.1	21.4
6 20	16 13.12	-16 17.7	1.536	2.494	9.9	20.2	6 30	16 5.19	-21 27.6	1.443	2.350	14.4	21.7
6 30	16 6.23	-15 43.0	1.590	2.485	14.0	20.4	7 10	16 1.42	-21 15.4	1.527	2.355	17.9	21.9
137846	2000 AT ₄₁		5 30.9 209°43'	5°8'/2.3 18			501384	2013 YC ₆₆		5 31.0 233°57'	2°2'/31.8 18		
4 21	17 8.42	-38 51.1	2.270	3.011	14.9	20.6	5 1	16 59.04	-28 51.0	2.388	3.256	10.5	22.2
5 1	17 3.04	-39 22.9	2.168	3.004	12.6	20.4	5 11	16 51.74	-29 1.4	2.298	3.239	7.7	22.0
5 11	16 54.78	-39 42.8	2.086	2.996	10.0	20.2	5 21	16 42.60	-29 4.1	2.232	3.222	4.5	21.8
5 21	16 44.21	-39 46.3	2.027	2.987	7.5	20.1	5 31	16 32.33	-28 58.0	2.196	3.204	2.2	21.6
5 31	16 32.31	-39 30.5	1.995	2.977	5.9	19.9	6 10	16 21.91	-28 43.4	2.188	3.185	4.1	21.7
6 10	16 20.35	-38 55.5	1.991	2.967	6.6	20.0	6 20	16 12.27	-28 22.2	2.208	3.166	7.4	21.9
6 20	16 9.56	-38 4.4	2.013	2.955	8.9	20.1	6 30	16 4.24	-27 57.8	2.255	3.145	10.6	22.0
6 30	16 0.96	-37 3.2	2.060	2.943	11.7	20.2	7 10	15 58.42	-27 33.6	2.323	3.124	13.4	22.2
178246	2007 BZ ₃₈		5 31.0 264°30'	6°2'/28.6 18			916	America		5 31.0 265°40'	7°1'/2.1 18		
5 1	16 52.52	-2 38.5	2.351	3.218	10.7	20.4	5 1	17 2.93	-39 24.3	1.754	2.602	14.6	15.6
5 11	16 46.95	-2 7.8	2.284	3.211	8.5	20.2	5 11	16 55.36	-39 57.3	1.663	2.580	11.8	15.4
5 21	16 40.01	-1 47.2	2.241	3.203	6.7	20.1	5 21	16 44.81	-40 12.3	1.595	2.557	8.9	15.2
5 31	16 32.32	-1 39.6	2.224	3.195	6.3	20.0	5 31	16 32.33	-40 4.3	1.551	2.534	7.2	15.0
6 10	16 24.62	-1 46.8	2.234	3.187	7.5	20.1	6 10	16 19.49	-39 32.0	1.532	2.510	8.0	15.0
6 20	16 17.60	-2 8.8	2.270	3.179	9.7	20.2	6 20	16 7.90	-38 38.5	1.539	2.486	10.8	15.1
6 30	16 11.89	-2 44.8	2.328	3.171	12.0	20.4	6 30	15 58.92	-37 31.2	1.569	2.461	14.3	15.2
7 10	16 7.94	-3 32.8	2.408	3.163	14.2	20.5	7 10	15 53.37	-36 18.7	1.618	2.435	17.5	15.4
363959	2005 UJ ₅₆		5 31.0 225°71'	2°5'/29.7 17			376496	2012 KP ₂₉		5 31.0 308°65'	4°0'/29.6 17		
5 1	16 52.53	-15 25.7	2.517	3.403	9.4	21.2	5 1	16 55.00	-14 47.5	1.486	2.388	13.7	21.2
5 11	16 46.90	-14 44.3	2.444	3.397	6.6	21.0	5 11	16 49.33	-13 58.2	1.420	2.380	9.8	21.0
5 21	16 39.96	-14 3.3	2.397	3.391	3.9	20.8	5 21	16 41.45	-13 10.1	1.376	2.372	5.8	20.7
5 31	16 32.32	-13 24.8	2.379	3.385	2.5	20.7	5 31	16 32.33	-12 27.2	1.358	2.364	4.0	20.6
6 10	16 24.70	-12 51.2	2.389	3.379	4.6	20.8	6 10	16 23.20	-11 53.8	1.365	2.356	7.0	20.8
6 20	16 17.78	-12 24.7	2.426	3.372	7.5	21.0	6 20	16 15.21	-11 33.1	1.396	2.349	11.1	21.0
6 30	16 12.15	-12 6.8	2.489	3.365	10.2	21.2	6 30	16 9.33	-11 27.0	1.448	2.342	15.1	21.2
7 10	16 8.22	-11 58.0	2.574	3.358	12.6	21.3	7 10	16 6.17	-11 35.3	1.519	2.335	18.5	21.4
182009	1999 XZ ₁₂₂		5 31.0 289°74'	5°3'/1.1 18			17058	Rocknroll		5 31.0 155°50'	6°3'/1.5 18		
5 1	16 59.05	-36 6.5	2.316	3.166	11.5	20.1	5 1	17 2.59	-36 54.1	1.881	2.734	13.6	18.2
5 11	16 52.14	-36 58.9	2.217	3.138	9.0	19.9	5 11	16 54.71	-37 54.4	1.816	2.737	10.6	18.1
5 21	16 42.98	-37 41.2	2.142	3.110	6.6	19.7	5 21	16 44.28	-38 40.4	1.774	2.741	7.8	17.9
5 31	16 32.32	-38 9.6	2.095	3.081	5.3	19.6	5 31	16 32.34	-39 7.6	1.759	2.744	6.3	17.8
6 10	16 21.22	-38 22.3	2.074	3.052	6.2	19.6	6 10	16 20.27	-39 14.6	1.769	2.746	7.2	17.9
6 20	16 10.81	-38 20.0	2.081	3.023	8.7	19.7	6 20	16 9.47	-39 3.6	1.806	2.749	9.8	18.0
6 30	16 2.16	-38 5.9	2.112	2.994	11.5	19.8	6 30	16 1.05	-38 39.7	1.866	2.751	12.7	18.2
7 10	15 56.03	-37 44.8	2.164	2.964	14.2	19.9	7 10	15 55.69	-38 9.5	1.946	2.753	15.4	18.4
389893	2012 TL ₁₃		5 31.0 240°14'	0°3'/30.9 16			11822	1981 TK		5 31.0 240°37'	12°2'/1.9 18		
5 1	16 56.76	-20 27.1	2.158	3.043	10.8	21.4	5 1	17 13.67	-53 4.6	2.023	2.786	15.9	18.3
5 11	16 50.16	-20 38.1	2.078	3.033	7.6	21.1	5 11	17 3.74	-54 44.7	1.941	2.770	14.3	18.2
5 21	16 41.77	-20 47.7	2.024	3.022	3.9	20.9	5 21	16 49.56	-56 2.1	1.879	2.753	12.9	18.0
5 31	16 32.33	-20 55.7	1.997	3.010	0.3	20.6	5 31	16 32.33	-56 47.2	1.841	2.735	12.2	17.9
6 10	16 22.75	-21 2.8	1.998	2.999	4.0	20.9	6 10	16 14.20	-56 54.8	1.825	2.716	12.6	17.9
6 20	16 13.98	-21 9.8	2.027	2.987	7.8	21.1	6 20	15 57.59	-56 26.2	1.833	2.697	13.8	18.0
6 30	16 6.81	-21 18.4	2.081	2.974	11.2	21.3	6 30	15 44.54	-55 29.0	1.861	2.676	15.6	18.0
7 10	16 1.81	-21 30.2	2.157	2.962	14.1	21.4	7 10	15 36.18	-54 14.5	1.907	2.656	17.6	18.1
1532	Inari		5 31.0 154°99'	4°1'/1.7 18			140236	2001 SE ₂₄₈		5 31.0 2°15'	7°8'/1.2 17		
5 1	16 56.90	-34 47.7	2.281	3.139	11.3	15.7	5 1	17 2.76	-37 31.5	1.561	2.422	15.5	19.8
5 11	16 50.23	-34 59.4	2.212	3.141	8.6	15.5	5 11	16 55.34	-38 55.3	1.498	2.422	12.3	19.6
5 21	16 41.76	-34 59.0	2.167	3.143	5.8	15.3	5 21	16 44.81	-40 3.5	1.457	2.422	9.4	19.5
5 31	16 32.33	-34 45.2	2.149	3.145	4.1	15.2	5 31	16 32.34	-40 49.4	1.440	2.422	7.8	19.4
6 10	16 22.94	-34 18.8	2.158	3.147	5.0	15.3	6 10	16 19.59	-41 9.9	1.448	2.422	8.8	19.4
6 20	16 14.56	-33 42.6	2.195	3.149	7.6	15.4	6 20	16 8.29	-41 7.1	1.480	2.423	11.5	19.6
6 30	16 7.97	-33 0.8	2.256	3.151	10.4	15.6	6 30	15 59.84	-40 47.0	1.534	2.423	14.7	19.8
7 10	16 3.66	-32 18.0	2.340	3.152	12.9	15.8	7 10	15 55.03	-40 17.6	1.607	2.424	17.6	20.0
417762	2007 DR ₆₆		5 31.0 194°43'	0°2'/30.9 17			186386	2002 JG ₁₀₈		5 31.0 269°16'	4°5'/29.9 18		
5 1	16 57.56	-21 49.4	1.907	2.794	11.9	22.2	5 1						

EPHEMERIDES

5 31.0

5 31.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
42271	Keikokubota		5 31.0 200°31	3°0/30.1	18	R	474921	2005 SD ₂₃₄		5 31.0 325°53	7°8/27.0	16	
5 1	16 57.22	-13 13.4	2.143	3.025	11.0	18.6	5 1	16 51.07	-4 45.8	1.737	2.625	12.8	20.8
5 11	16 50.35	-13 3.5	2.072	3.022	7.8	18.4	5 11	16 46.38	-3 23.6	1.668	2.607	10.2	20.5
5 21	16 41.82	-12 57.0	2.025	3.018	4.6	18.2	5 21	16 39.90	-2 10.1	1.622	2.590	8.2	20.4
5 31	16 32.35	-12 55.4	2.007	3.013	3.0	18.1	5 31	16 32.39	-1 11.5	1.600	2.573	8.0	20.3
6 10	16 22.84	-12 59.8	2.017	3.007	5.2	18.2	6 10	16 24.81	-0 32.5	1.603	2.557	9.8	20.4
6 20	16 14.18	-13 11.1	2.054	3.001	8.5	18.4	6 20	16 18.08	-0 15.8	1.629	2.542	12.6	20.5
6 30	16 7.10	-13 29.9	2.117	2.995	11.7	18.6	6 30	16 13.03	-0 21.5	1.675	2.527	15.5	20.7
7 10	16 2.12	-13 56.0	2.200	2.987	14.4	18.8	7 10	16 10.20	-0 47.4	1.739	2.513	18.2	20.8
284300	2006 KY ₁₄₃		5 31.0 334°70	3°4/30.1	18		27506	2000 GQ ₁₄₁		5 31.0 172°23	1°5/30.6	18	
5 1	16 53.16	-14 43.5	1.512	2.416	13.4	20.0	5 1	16 58.05	-18 4.1	1.803	2.693	12.3	19.4
5 11	16 48.09	-14 22.5	1.442	2.404	9.6	19.7	5 11	16 51.18	-18 1.7	1.739	2.695	8.6	19.1
5 21	16 40.85	-14 4.5	1.396	2.392	5.5	19.5	5 21	16 42.33	-17 59.2	1.699	2.697	4.5	18.9
5 31	16 32.35	-13 52.0	1.373	2.382	3.4	19.3	5 31	16 32.40	-17 57.4	1.686	2.698	1.5	18.7
6 10	16 23.75	-13 47.5	1.376	2.372	6.3	19.5	6 10	16 22.48	-17 57.6	1.700	2.699	4.8	18.9
6 20	16 16.19	-13 52.7	1.403	2.362	10.6	19.7	6 20	16 13.63	-18 1.1	1.741	2.700	8.9	19.2
6 30	16 10.67	-14 8.7	1.452	2.354	14.6	19.9	6 30	16 6.71	-18 9.6	1.806	2.700	12.6	19.4
7 10	16 7.80	-14 35.1	1.519	2.346	18.0	20.1	7 10	16 2.27	-18 24.0	1.891	2.700	15.7	19.6
324509	2006 VZ ₃₂		5 31.0 288°99	1°5/31.4	18		466416	2013 TX ₄		5 31.0 338°01	9°5/31.8	18	
5 1	16 58.17	-25 22.1	1.495	2.389	14.1	20.9	5 1	16 56.36	-0 42.1	0.990	1.888	19.2	19.2
5 11	16 51.96	-25 28.5	1.409	2.366	10.1	20.6	5 11	16 51.41	-1 24.9	0.915	1.862	15.4	18.9
5 21	16 43.04	-25 27.6	1.346	2.344	5.5	20.2	5 21	16 43.10	-2 41.9	0.858	1.838	11.6	18.6
5 31	16 32.35	-25 18.4	1.308	2.321	1.5	19.9	5 31	16 32.40	-4 37.6	0.822	1.816	9.5	18.4
6 10	16 21.31	-25 1.6	1.296	2.298	5.3	20.1	6 10	16 20.98	-7 9.9	0.808	1.795	11.3	18.4
6 20	16 11.35	-24 40.3	1.308	2.275	10.3	20.3	6 20	16 10.69	-10 9.8	0.815	1.777	15.7	18.6
6 30	16 3.75	-24 19.0	1.342	2.252	15.0	20.5	6 30	16 3.24	-13 24.9	0.842	1.761	20.6	18.8
7 10	15 59.33	-24 2.0	1.395	2.230	18.9	20.7	7 10	15 59.77	-16 43.1	0.886	1.747	25.1	19.0
95391	2002 CY ₁₇₄		5 31.0 111°32	7°2/28.6	17		147924	2006 VM ₃₆		5 31.0 163°91	2°1/30.1	18	
5 1	16 55.88	-1 53.0	2.026	2.891	12.2	19.7	5 1	16 53.53	-15 11.9	2.609	3.492	9.2	21.2
5 11	16 49.24	-1 9.2	1.984	2.909	9.7	19.5	5 11	16 47.55	-14 54.3	2.544	3.496	6.5	21.0
5 21	16 41.14	-0 37.8	1.967	2.926	7.8	19.5	5 21	16 40.30	-14 38.0	2.505	3.500	3.7	20.9
5 31	16 32.36	-0 22.5	1.976	2.942	7.3	19.5	5 31	16 32.40	-14 24.4	2.495	3.503	2.2	20.8
6 10	16 23.77	-0 24.7	2.010	2.959	8.5	19.6	6 10	16 24.55	-14 14.9	2.514	3.506	4.2	20.9
6 20	16 16.18	-0 44.3	2.070	2.974	10.7	19.7	6 20	16 17.40	-14 10.7	2.560	3.508	7.0	21.1
6 30	16 10.20	-1 19.5	2.153	2.990	13.1	19.9	6 30	16 11.52	-14 12.6	2.632	3.511	9.7	21.3
7 10	16 6.25	-2 7.6	2.255	3.005	15.2	20.1	7 10	16 7.32	-14 21.1	2.726	3.512	12.0	21.4
304670	2006 WC ₉₃		5 31.0 105°20	1°1/30.6	18		119889	2002 CX ₂₅₄		5 31.0 30°21	1°8/30.2	18	
5 1	16 53.63	-19 32.1	2.210	3.099	10.4	21.0	5 1	16 52.85	-18 49.3	1.991	2.886	11.1	19.0
5 11	16 47.80	-19 11.4	2.145	3.102	7.2	20.8	5 11	16 47.35	-18 8.4	1.932	2.891	7.7	18.8
5 21	16 40.47	-18 48.9	2.106	3.105	3.7	20.6	5 21	16 40.27	-17 25.7	1.898	2.896	4.1	18.6
5 31	16 32.36	-18 26.0	2.095	3.107	1.1	20.4	5 31	16 32.40	-16 43.7	1.890	2.901	1.8	18.4
6 10	16 24.31	-18 4.7	2.111	3.110	4.1	20.7	6 10	16 24.64	-16 5.4	1.910	2.907	4.6	18.6
6 20	16 17.11	-17 46.9	2.155	3.113	7.5	20.9	6 20	16 17.83	-15 33.5	1.956	2.913	8.2	18.9
6 30	16 11.43	-17 34.5	2.223	3.115	10.6	21.1	6 30	16 12.65	-15 10.2	2.026	2.919	11.5	19.1
7 10	16 7.71	-17 28.7	2.313	3.118	13.3	21.3	7 10	16 9.54	-14 56.6	2.117	2.926	14.2	19.3
161933	2007 EB ₁₈₁		5 31.0 355°54	6°7/1.2	17		196704	2003 SM ₈₅		5 31.0 162°35	4°5/2.2	18	
5 1	16 55.18	-32 11.8	0.907	1.819	19.2	19.3	5 1	16 59.04	-36 43.2	2.204	3.055	11.9	20.3
5 11	16 50.87	-33 6.6	0.854	1.813	14.6	19.0	5 11	16 51.75	-36 41.7	2.135	3.059	9.2	20.1
5 21	16 42.78	-33 44.6	0.818	1.808	9.8	18.7	5 21	16 42.57	-36 25.6	2.090	3.062	6.4	19.9
5 31	16 32.36	-33 59.5	0.802	1.805	6.8	18.5	5 31	16 32.41	-35 53.6	2.072	3.065	4.6	19.8
6 10	16 21.80	-33 50.4	0.806	1.804	8.7	18.6	6 10	16 22.38	-35 7.4	2.081	3.068	5.4	19.9
6 20	16 13.24	-33 21.6	0.829	1.804	13.5	18.9	6 20	16 13.50	-34 10.6	2.117	3.071	7.9	20.0
6 30	16 8.32	-32 42.2	0.871	1.806	18.3	19.1	6 30	16 6.58	-33 8.5	2.179	3.073	10.8	20.2
7 10	16 7.80	-32 1.0	0.927	1.809	22.5	19.4	7 10	16 2.10	-32 6.6	2.263	3.075	13.3	20.4
415066	2012 BV ₅₄		5 31.0 121°50	0°7/30.8	17		117587	2005 EG ₄₆		5 31.0 194°92	2°3/30.1	18	
5 1	16 59.44	-20 33.6	1.644	2.536	13.2	21.4	5 1	16 54.86	-16 22.0	2.080	2.969	10.9	20.3
5 11	16 52.17	-20 25.9	1.590	2.547	9.2	21.2	5 11	16 48.75	-15 55.5	2.013	2.968	7.7	20.1
5 21	16 42.80	-20 15.5	1.560	2.559	4.7	20.9	5 21	16 41.02	-15 29.4	1.971	2.967	4.3	19.9
5 31	16 32.37	-20 3.0	1.556	2.570	0.7	20.6	5 31	16 32.41	-15 5.6	1.956	2.965	2.3	19.8
6 10	16 22.12	-19 50.4	1.580	2.581	4.8	21.0	6 10	16 23.85	-14 46.4	1.969	2.964	4.9	19.9
6 20	16 13.15	-19 40.0	1.629	2.591	9.2	21.2	6 20	16 16.16	-14 33.5	2.009	2.962	8.3	20.2
6 30	16 6.36	-19 34.4	1.702	2.601	13.0	21.5	6 30	16 10.07	-14 28.6	2.074	2.960	11.5	20.3
7 10	16 2.25	-19 35.1	1.795	2.610	16.1	21.7	7 10	16 6.05	-14 32.2	2.159	2.958	14.3	20.5
14981	Uenoiwakura		5 31.0 212°80	0°1/31.0	18		47951	2000 OS ₁₅		5 31.0 111°93	5°1/2.3	18	
5 1	16 55.34	-22 3.1	2.175	3.061	10.7	18.3	5 1	17 0.39	-36 51.0	1.787	2.646	13.9	18.4
5 11	16 49.11	-21 59.5	2.104	3.058	7.4	18.1	5 11	16 52.95	-36 45.6	1.726	2.654	10.7	18.2
5 21	16 41.21	-21 52.7	2.057	3.055	3.8	17.8	5 21	16 43.25	-36 22.4	1.688	2.663	7.4	18.0
5 31	16 32.38	-21 43.0	2.038	3.052	0.1	17.5	5 31	16 32.42	-35 40.4	1.675	2.671	5.2	17.9
6 10	16 23.55	-21 31.7	2.047	3.049	3.9	17.8	6 10	16 21.84	-34 41.7	1.689	2.679	6.1	18.0
6 20	16 15.57	-21 20.5	2.084	3.045	7.5	18.1	6 20	16 12.72	-33 31.7	1.729	2.687	9.0	18.1
6 30	16 9.20	-21 11.8	2.145	3.041	10.8	18.3	6 30	16 5.99	-32 17.4	1.793	2.695	12.3	18.4
7 10	16 4.92	-21 7.3	2.228	3.037	13.6	18.4	7 10	16 2.13	-31 5.4	1.879	2.702	15.2	18.6
395992	2013 BW ₃₉		5 31.0 181°19	4°0/29.4	16		116759	2004 EH ₄		5 31.0 220°04	4°4/29.9	18	
5 1	16 52.92	-9 35.5	2.413	3.294</									

EPHEMERIDES

5 31.0

5 31.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
175108	2004 <i>LX</i> ₁₀		5 31.0 357°75	0°0/31.0 18			87315	2000 <i>QV</i> ₄		5 31.0 327°08	1°5/31.5 18		
5 1	16 53.11	-23 31.1	1.698	2.596	12.5	19.9	5 1	16 54.95	-25 41.1	1.363	2.265	14.7	18.8
5 11	16 47.87	-23 6.1	1.633	2.593	8.7	19.6	5 11	16 49.76	-25 39.2	1.289	2.250	10.5	18.5
5 21	16 40.67	-22 34.9	1.592	2.592	4.5	19.4	5 21	16 41.92	-25 28.6	1.237	2.236	5.7	18.2
5 31	16 32.42	-21 59.2	1.577	2.591	0.0	19.0	5 31	16 32.47	-25 9.2	1.209	2.222	1.5	17.8
6 10	16 24.23	-21 21.8	1.587	2.590	4.5	19.4	6 10	16 22.85	-24 42.8	1.205	2.209	5.3	18.1
6 20	16 17.13	-20 46.3	1.623	2.590	8.7	19.6	6 20	16 14.47	-24 13.2	1.225	2.196	10.4	18.3
6 30	16 11.97	-20 16.1	1.683	2.591	12.5	19.8	6 30	16 8.54	-23 45.3	1.266	2.185	15.0	18.5
7 10	16 9.25	-19 53.8	1.762	2.593	15.8	20.1	7 10	16 5.79	-23 23.4	1.325	2.174	19.0	18.8
64794	2001 <i>XY</i> ₂₀₆		5 31.0 70°95	2°3/30.2 18			237180	2008 <i>UT</i> ₁₈₄		5 31.0 166°42	0°2/31.1 18		
5 1	16 57.88	-19 16.1	1.296	2.201	15.1	19.0	5 1	16 56.14	-23 16.4	2.029	2.915	11.3	21.5
5 11	16 51.43	-18 27.0	1.245	2.208	10.5	18.8	5 11	16 49.74	-23 5.8	1.962	2.917	7.9	21.2
5 21	16 42.56	-17 34.7	1.215	2.215	5.6	18.5	5 21	16 41.58	-22 50.4	1.921	2.919	4.1	21.0
5 31	16 32.44	-16 43.0	1.210	2.222	2.4	18.3	5 31	16 32.48	-22 30.8	1.906	2.920	0.2	20.7
6 10	16 22.54	-15 56.8	1.230	2.229	6.3	18.6	6 10	16 23.43	-22 8.9	1.919	2.921	4.0	21.0
6 20	16 14.18	-15 20.5	1.274	2.236	11.1	18.9	6 20	16 15.36	-21 47.0	1.960	2.922	7.8	21.2
6 30	16 8.32	-14 57.2	1.339	2.243	15.4	19.1	6 30	16 9.03	-21 27.9	2.025	2.923	11.2	21.5
7 10	16 5.50	-14 48.0	1.422	2.251	19.0	19.4	7 10	16 4.95	-21 13.9	2.111	2.924	14.1	21.7
435715	2008 <i>UQ</i> ₃₂		5 31.0 73°82	0°9/31.3 17			185141	2006 <i>SS</i> ₁₃₀		5 31.0 154°99	0°9/30.8 17		
5 1	16 57.84	-23 29.0	1.800	2.688	12.4	21.0	5 1	16 58.15	-20 45.3	1.738	2.629	12.6	21.4
5 11	16 51.04	-23 51.5	1.745	2.700	8.7	20.8	5 11	16 51.29	-20 25.8	1.677	2.634	8.8	21.2
5 21	16 42.27	-24 9.9	1.715	2.712	4.6	20.5	5 21	16 42.42	-20 2.9	1.639	2.638	4.5	21.0
5 31	16 32.44	-24 23.1	1.711	2.724	0.9	20.3	5 31	16 32.49	-19 38.0	1.628	2.642	0.9	20.7
6 10	16 22.71	-24 31.5	1.734	2.736	4.3	20.6	6 10	16 22.65	-19 13.5	1.645	2.645	4.7	21.0
6 20	16 14.12	-24 36.7	1.784	2.748	8.3	20.8	6 20	16 13.98	-18 52.1	1.687	2.648	9.0	21.3
6 30	16 7.54	-24 40.9	1.857	2.760	11.9	21.1	6 30	16 7.33	-18 36.6	1.754	2.651	12.7	21.5
7 10	16 3.49	-24 46.5	1.952	2.771	14.9	21.3	7 10	16 3.23	-18 28.9	1.840	2.653	15.9	21.7
118031	2330 <i>T</i> ₋₂		5 31.0 127°48	2°6/31.8 18			338580	2003 <i>SX</i> ₁₂₀		5 31.0 229°99	0°3/30.9 18		
5 1	16 59.17	-28 35.6	1.742	2.623	13.1	19.1	5 1	16 57.18	-20 27.3	2.391	3.271	10.1	20.7
5 11	16 52.12	-28 47.4	1.680	2.629	9.5	18.9	5 11	16 50.38	-20 36.4	2.307	3.259	7.0	20.5
5 21	16 42.87	-28 49.6	1.643	2.635	5.5	18.6	5 21	16 41.93	-20 44.1	2.248	3.246	3.6	20.3
5 31	16 32.44	-28 41.2	1.631	2.641	2.6	18.5	5 31	16 32.49	-20 50.2	2.218	3.232	0.3	20.0
6 10	16 22.09	-28 23.1	1.646	2.646	4.9	18.6	6 10	16 22.92	-20 55.2	2.218	3.218	3.7	20.2
6 20	16 12.99	-27 58.6	1.688	2.651	8.7	18.8	6 20	16 14.05	-21 0.2	2.245	3.203	7.3	20.4
6 30	16 6.09	-27 31.8	1.753	2.656	12.4	19.1	6 30	16 6.65	-21 6.6	2.299	3.188	10.5	20.6
7 10	16 1.93	-27 7.1	1.838	2.661	15.5	19.3	7 10	16 1.24	-21 16.0	2.375	3.172	13.2	20.8
259350	2003 <i>GD</i> ₂₇		5 31.0 97°43	4°2/29.1 18			498430	2008 <i>AX</i> ₇₅		5 31.0 204°39	0°5/31.2 17		
5 1	16 52.65	-10 51.6	2.226	3.112	10.5	20.6	5 1	16 59.45	-24 4.7	1.913	2.796	12.1	22.6
5 11	16 47.08	-10 5.6	2.167	3.116	7.7	20.4	5 11	16 52.20	-23 53.0	1.839	2.791	8.5	22.3
5 21	16 40.12	-9 23.8	2.134	3.120	5.1	20.2	5 21	16 42.91	-23 35.1	1.789	2.786	4.4	22.1
5 31	16 32.46	-8 49.3	2.129	3.125	4.2	20.2	5 31	16 32.49	-23 11.3	1.766	2.780	0.5	21.8
6 10	16 24.89	-8 24.5	2.150	3.129	6.0	20.3	6 10	16 22.05	-22 43.6	1.772	2.773	4.3	22.0
6 20	16 18.12	-8 11.1	2.198	3.133	8.7	20.5	6 20	16 12.65	-22 14.8	1.804	2.766	8.5	22.3
6 30	16 12.77	-8 9.5	2.270	3.137	11.4	20.7	6 30	16 5.19	-21 48.6	1.862	2.758	12.2	22.5
7 10	16 9.27	-8 19.2	2.362	3.142	13.8	20.8	7 10	16 0.24	-21 28.1	1.940	2.749	15.3	22.7
429566	2011 <i>DK</i> ₈		5 31.0 75°80	2°4/31.8 17			147141	2002 <i>TB</i> ₂₄₆		5 31.0 265°64	4°5/29.6 18		
5 1	16 58.87	-28 10.0	1.652	2.537	13.5	21.7	5 1	16 56.48	-12 13.6	1.624	2.518	13.2	20.1
5 11	16 51.86	-28 17.9	1.602	2.553	9.7	21.5	5 11	16 50.33	-11 37.6	1.551	2.506	9.6	19.9
5 21	16 42.70	-28 16.1	1.575	2.569	5.5	21.3	5 21	16 42.04	-11 5.7	1.502	2.493	6.1	19.6
5 31	16 32.47	-28 4.0	1.574	2.585	2.4	21.1	5 31	16 32.49	-10 41.3	1.478	2.480	4.6	19.5
6 10	16 22.46	-27 43.1	1.600	2.601	4.8	21.3	6 10	16 22.83	-10 27.6	1.479	2.467	7.1	19.6
6 20	16 13.82	-27 16.9	1.651	2.616	8.8	21.6	6 20	16 14.17	-10 26.6	1.506	2.453	11.0	19.8
6 30	16 7.46	-26 49.7	1.726	2.632	12.4	21.8	6 30	16 7.48	-10 39.1	1.555	2.440	14.7	20.0
7 10	16 3.85	-26 25.5	1.822	2.648	15.5	22.1	7 10	16 3.40	-11 4.5	1.622	2.426	18.0	20.2
438272	2005 <i>YV</i> ₂₃		5 31.0 247°37	5°2/ 3.2 17			466852	2015 <i>BF</i> ₂₉₃		5 31.0 216°48	7°7/27.7 17		
5 1	16 58.67	-42 30.8	2.935	3.750	10.2	22.6	5 1	16 54.97	- 4 49.7	1.712	2.594	13.3	21.5
5 11	16 51.34	-42 25.7	2.840	3.732	8.3	22.4	5 11	16 49.01	- 3 32.8	1.655	2.592	10.4	21.3
5 21	16 42.35	-42 5.5	2.769	3.714	6.5	22.3	5 21	16 41.24	- 2 25.9	1.622	2.590	8.2	21.2
5 31	16 32.47	-41 28.7	2.725	3.696	5.3	22.1	5 31	16 32.49	- 1 34.7	1.613	2.588	7.8	21.2
6 10	16 22.61	-40 36.0	2.709	3.677	5.6	22.1	6 10	16 23.80	- 1 3.5	1.630	2.586	9.6	21.3
6 20	16 13.63	-39 30.1	2.721	3.657	7.2	22.2	6 20	16 16.14	- 0 53.9	1.671	2.583	12.3	21.4
6 30	16 6.27	-38 15.6	2.760	3.637	9.3	22.3	6 30	16 10.29	- 1 5.4	1.732	2.581	15.2	21.6
7 10	16 1.03	-36 57.7	2.823	3.617	11.4	22.4	7 10	16 6.76	- 1 35.2	1.812	2.578	17.8	21.8
172438	2003 <i>QW</i> ₃₇		5 31.0 303°15	3°8/ 1.1 17			3907	Kilmartin		5 31.0 253°69	3°2/ 1.5 18		
5 1	16 58.04	-30 14.4	1.295	2.189	15.9	19.8	5 1	16 57.23	-32 32.4	2.090	2.958	11.8	16.5
5 11	16 52.26	-30 23.3	1.215	2.169	11.8	19.5	5 11	16 50.65	-32 19.6	2.008	2.947	8.8	16.3
5 21	16 43.36	-30 18.3	1.157	2.149	7.2	19.2	5 21	16 42.12	-31 54.1	1.951	2.936	5.5	16.0
5 31	16 32.47	-29 57.0	1.121	2.130	3.8	18.9	5 31	16 32.50	-31 15.5	1.920	2.925	3.2	15.9
6 10	16 21.25	-29 20.2	1.110	2.110	6.4	19.0	6 10	16 22.88	-30 25.5	1.917	2.914	4.7	15.9
6 20	16 11.39	-28 32.6	1.121	2.092	11.3	19.2	6 20	16 14.27	-29 28.0	1.942	2.903	8.0	16.1
6 30	16 4.34	-27 41.4	1.154	2.073	16.1	19.5	6 30	16 7.55	-28 28.0	1.991	2.892	11.3	16.3
7 10	16 0.94	-26 53.9	1.204	2.055	20.4	19.7	7 10	16 3.24	-27 30.6	2.062	2.880	14.2	16.5
181004	2005 <i>NU</i> ₄₇		5 31.0 333°08	0°3/31.1 17			329938	2005 <i>PF</i> ₉		5 3			

EPHEMERIDES

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5 31.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
250374	Jírovec		5 31.0 325°10	3°0/30.4	17		140349	2001 TU ₁₅		5 31.0 298°84	6°3/28.8	18	
5 1	16 54.89	-16 33.7	1.164	2.077	15.7	19.7	5 1	16 53.35	-5 31.5	1.940	2.821	12.0	19.1
5 11	16 49.91	-16 15.9	1.095	2.062	11.2	19.4	5 11	16 47.88	-4 54.1	1.868	2.807	9.3	18.9
5 21	16 42.09	-15 59.5	1.047	2.047	6.2	19.0	5 21	16 40.71	-4 26.0	1.820	2.794	7.0	18.8
5 31	16 32.51	-15 47.4	1.022	2.033	3.0	18.8	5 31	16 32.56	-4 10.9	1.798	2.781	6.4	18.7
6 10	16 22.70	-15 42.3	1.019	2.019	7.0	19.0	6 10	16 24.34	-4 11.2	1.802	2.768	8.0	18.8
6 20	16 14.18	-15 46.9	1.039	2.007	12.3	19.2	6 20	16 16.92	-4 27.7	1.830	2.755	10.7	18.9
6 30	16 8.27	-16 2.8	1.078	1.995	17.2	19.5	6 30	16 11.07	-4 59.8	1.881	2.743	13.6	19.0
7 10	16 5.75	-16 30.3	1.134	1.984	21.4	19.7	7 10	16 7.32	-5 45.4	1.951	2.730	16.3	19.2
470832	2008 WW ₁₀₇		5 31.0 298°89	3°3/30.3	17		181153	2005 RL ₂₂		5 31.1 307°97	1°7/30.2	18	
5 1	16 55.85	-12 49.6	1.798	2.689	12.3	21.0	5 1	16 53.26	-18 50.9	2.184	3.075	10.4	19.4
5 11	16 49.73	-12 49.0	1.729	2.683	8.8	20.7	5 11	16 47.63	-18 9.0	2.116	3.073	7.3	19.2
5 21	16 41.68	-12 53.5	1.683	2.676	5.2	20.5	5 21	16 40.49	-17 25.0	2.074	3.072	3.9	19.0
5 31	16 32.51	-13 4.5	1.664	2.670	3.3	20.4	5 31	16 32.57	-16 41.2	2.059	3.071	1.7	18.8
6 10	16 23.27	-13 23.0	1.671	2.664	5.8	20.5	6 10	16 24.71	-16 0.4	2.073	3.069	4.4	19.0
6 20	16 14.97	-13 49.3	1.704	2.658	9.5	20.7	6 20	16 17.70	-15 25.5	2.113	3.068	7.8	19.2
6 30	16 8.46	-14 23.4	1.761	2.652	13.0	20.9	6 30	16 12.19	-14 58.6	2.178	3.067	11.0	19.4
7 10	16 4.33	-15 4.5	1.838	2.646	16.1	21.1	7 10	16 8.63	-14 41.0	2.264	3.066	13.6	19.6
263173	2007 WA ₅₄		5 31.0 30°43	1°4/30.7	17		116597	2004 BL ₁₀₅		5 31.1 333°18	1°5/30.6	18	
5 1	16 56.59	-19 26.1	1.132	2.045	16.2	20.0	5 1	16 54.49	-18 34.2	1.876	2.770	11.7	19.4
5 11	16 50.83	-19 18.7	1.087	2.054	11.3	19.7	5 11	16 48.73	-18 20.7	1.809	2.767	8.2	19.2
5 21	16 42.37	-19 9.9	1.062	2.063	5.8	19.5	5 21	16 41.15	-18 6.4	1.766	2.764	4.3	18.9
5 31	16 32.52	-19 1.1	1.060	2.074	1.4	19.2	5 31	16 32.58	-17 52.7	1.749	2.762	1.5	18.7
6 10	16 22.87	-18 54.8	1.082	2.085	6.0	19.5	6 10	16 24.01	-17 41.2	1.760	2.759	4.7	18.9
6 20	16 14.88	-18 53.4	1.126	2.097	11.3	19.9	6 20	16 16.38	-17 34.0	1.796	2.757	8.6	19.2
6 30	16 9.62	-18 59.0	1.191	2.109	15.8	20.2	6 30	16 10.50	-17 32.7	1.856	2.754	12.1	19.4
7 10	16 7.63	-19 12.8	1.273	2.122	19.6	20.4	7 10	16 6.90	-17 38.5	1.937	2.752	15.1	19.6
282645	2005 TA ₁₇₂		5 31.0 355°62	2°8/30.1	18		84574	2002 VU ₁₅		5 31.1 215°94	4°5/28.9	18	
5 1	17 17.47	-52 4.7	0.977	1.804	25.0	19.7	5 1	16 53.61	-9 41.0	2.299	3.181	10.4	19.7
5 11	17 9.75	-55 46.1	0.934	1.803	22.9	19.5	5 11	16 47.80	-8 54.9	2.231	3.176	7.7	19.5
5 21	16 54.38	-58 54.0	0.907	1.802	21.3	19.4	5 21	16 40.58	-8 13.3	2.188	3.171	5.3	19.3
5 31	16 32.57	-61 4.7	0.897	1.801	20.8	19.4	5 31	16 32.59	-7 39.3	2.173	3.165	4.5	19.3
6 10	16 8.48	-62 4.5	0.905	1.801	21.5	19.4	6 10	16 24.62	-7 15.6	2.185	3.159	6.2	19.4
6 20	15 47.64	-61 56.6	0.927	1.801	23.1	19.5	6 20	16 17.39	-7 3.6	2.223	3.153	8.9	19.5
6 30	15 34.35	-60 59.0	0.963	1.802	25.2	19.7	6 30	16 11.54	-7 3.9	2.286	3.147	11.6	19.7
7 10	15 29.93	-59 34.2	1.010	1.803	27.3	19.8	7 10	16 7.52	-7 16.1	2.369	3.140	13.9	19.9
125651	2001 XX ₆₈		5 31.0 105°05	0°8/30.8	17		472037	2013 YN ₃₁		5 31.1 267°03	2°5/1.2	17	
5 1	16 57.09	-21 19.7	1.753	2.646	12.5	19.9	5 1	16 56.92	-30 27.2	1.901	2.778	12.4	21.0
5 11	16 50.49	-20 51.9	1.698	2.655	8.7	19.7	5 11	16 50.53	-30 6.4	1.826	2.772	9.0	20.7
5 21	16 41.99	-20 20.2	1.666	2.665	4.4	19.4	5 21	16 42.12	-29 33.6	1.775	2.765	5.3	20.5
5 31	16 32.54	-19 46.4	1.661	2.674	0.8	19.2	5 31	16 32.61	-28 48.8	1.750	2.759	2.5	20.3
6 10	16 23.27	-19 13.1	1.683	2.683	4.6	19.5	6 10	16 23.13	-27 54.5	1.752	2.752	4.5	20.4
6 20	16 15.17	-18 43.6	1.731	2.693	8.7	19.7	6 20	16 14.76	-26 55.0	1.781	2.746	8.3	20.6
6 30	16 9.06	-18 20.8	1.803	2.701	12.4	20.0	6 30	16 8.37	-25 55.7	1.835	2.739	11.9	20.8
7 10	16 5.40	-18 6.4	1.895	2.710	15.4	20.2	7 10	16 4.51	-25 1.4	1.909	2.732	15.0	21.0
302353	2002 BH ₃		5 31.0 150°63	0°5/30.9	17		87435	2000 QH ₁₀₆		5 31.1 276°54	3°1/31.9	18	
5 1	17 1.95	-19 25.2	1.632	2.520	13.5	20.8	5 1	16 58.37	-29 26.5	1.720	2.602	13.2	19.8
5 11	16 54.11	-19 48.4	1.572	2.527	9.4	20.6	5 11	16 51.87	-29 44.1	1.642	2.589	9.7	19.6
5 21	16 43.97	-20 11.0	1.536	2.534	4.9	20.4	5 21	16 42.97	-29 51.9	1.586	2.577	5.9	19.3
5 31	16 32.56	-20 32.4	1.526	2.540	0.5	20.0	5 31	16 32.61	-29 48.0	1.557	2.565	3.1	19.1
6 10	16 21.17	-20 52.2	1.545	2.546	4.9	20.4	6 10	16 22.08	-29 32.8	1.554	2.552	5.2	19.2
6 20	16 11.03	-21 11.5	1.589	2.551	9.4	20.7	6 20	16 12.65	-29 9.0	1.576	2.540	9.2	19.4
6 30	16 3.15	-21 31.7	1.658	2.555	13.3	20.9	6 30	16 5.40	-28 41.0	1.622	2.528	13.1	19.6
7 10	15 58.11	-21 54.6	1.746	2.559	16.6	21.1	7 10	16 1.02	-28 13.8	1.688	2.515	16.5	19.8
118441	1999 UP ₃₉		5 31.0 21°95	4°5/1.2	17		115175	2003 SG ₈₇		5 31.1 230°73	0°1/31.1	17	
5 1	16 56.83	-32 27.8	1.818	2.693	13.0	18.7	5 1	17 0.18	-21 28.4	1.784	2.671	12.6	20.3
5 11	16 50.60	-33 13.3	1.760	2.699	9.7	18.5	5 11	16 52.96	-21 36.9	1.705	2.660	8.9	20.1
5 21	16 42.19	-33 47.7	1.724	2.706	6.5	18.3	5 21	16 43.48	-21 42.5	1.650	2.648	4.6	19.8
5 31	16 32.55	-34 8.2	1.715	2.714	4.5	18.2	5 31	16 32.62	-21 45.0	1.622	2.636	0.1	19.4
6 10	16 22.91	-34 14.4	1.731	2.722	5.8	18.3	6 10	16 21.58	-21 45.0	1.621	2.623	4.6	19.7
6 20	16 14.43	-34 8.3	1.773	2.731	8.8	18.5	6 20	16 11.54	-21 44.2	1.648	2.609	9.1	20.0
6 30	16 8.07	-33 54.0	1.838	2.740	12.0	18.7	6 30	16 3.52	-21 45.1	1.698	2.595	13.1	20.2
7 10	16 4.40	-33 36.1	1.924	2.749	14.8	18.9	7 10	15 58.18	-21 50.1	1.769	2.581	16.5	20.4
46240	2001 HT ₁₁		5 31.0 268°67	1°9/31.6	18		340535	2006 JX ₅₃		5 31.1 343°17	0°4/31.2	17	
5 1	16 57.16	-26 43.4	1.906	2.790	12.1	19.2	5 1	16 56.29	-22 36.8	1.791	2.683	12.3	20.9
5 11	16 50.69	-27 1.8	1.838	2.789	8.6	18.9	5 11	16 50.12	-22 45.8	1.724	2.681	8.6	20.7
5 21	16 42.19	-27 13.5	1.793	2.788	4.9	18.7	5 21	16 41.94	-22 51.2	1.681	2.680	4.5	20.5
5 31	16 32.56	-27 17.4	1.775	2.786	2.0	18.5	5 31	16 32.62	-22 52.8	1.665	2.679	0.4	20.1
6 10	16 22.88	-27 13.9	1.785	2.785	4.4	18.7	6 10	16 23.27	-22 51.4	1.675	2.677	4.4	20.4
6 20	16 14.23	-27 5.0	1.821	2.784	8.2	18.9	6 20	16 14.95	-22 48.9	1.711	2.676	8.5	20.7
6 30	16 7.50	-26 53.8	1.881	2.783	11.7	19.1	6 30	16 8.57	-22 47.6	1.771	2.676	12.3	20.9
7 10	16 3.26	-26 43.6	1.962	2.782	14.8	19.3	7 10	16 4.68	-22 49.7	1.852	2.675	15.4	21.1
348526	2005 UC ₇₆		5 31.0 183°74	1°0/31.7	18		423870	2006 RD ₃₄		5 31.1 298°18	1°8/30.6	18	
5 1	16 54.64	-27 42.4	2.709										

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
508939	2004 <i>RX</i> ₁₄₈		5 31.1 242°87	2°7/29.9	17		127145	2002 <i>GO</i> ₁₁₉		5 31.1 74°23	2°4/30.3	18	
5 1	16 56.26	-15 7.3	2.189	3.073	10.7	22.3	5 1	16 53.92	-14 7.9	2.312	3.198	10.1	19.6
5 11	16 49.84	-14 35.7	2.104	3.057	7.6	22.1	5 11	16 48.06	-14 6.7	2.247	3.199	7.2	19.4
5 21	16 41.73	-14 4.6	2.046	3.039	4.4	21.9	5 21	16 40.75	-14 8.5	2.207	3.201	4.1	19.2
5 31	16 32.62	-13 36.3	2.014	3.021	2.8	21.7	5 31	16 32.65	-14 14.2	2.195	3.202	2.4	19.1
6 10	16 23.41	-13 13.1	2.012	3.003	5.1	21.8	6 10	16 24.57	-14 24.6	2.211	3.204	4.5	19.2
6 20	16 14.94	-12 57.0	2.036	2.983	8.6	22.0	6 20	16 17.25	-14 40.4	2.254	3.205	7.6	19.4
6 30	16 7.99	-12 49.9	2.085	2.963	11.8	22.2	6 30	16 11.33	-15 1.9	2.322	3.207	10.5	19.6
7 10	16 3.09	-12 52.3	2.155	2.943	14.7	22.3	7 10	16 7.27	-15 28.9	2.412	3.208	13.0	19.8
105481	2000 <i>QB</i> ₂₁₆		5 31.1 164°67	0°8/31.4	18		87835	2000 <i>SE</i> ₁₈₂		5 31.1 346°28	2°4/30.7	18	
5 1	16 55.06	-24 38.6	2.739	3.615	9.1	20.0	5 1	16 54.07	-15 52.9	1.179	2.093	15.5	18.3
5 11	16 48.71	-24 42.8	2.670	3.619	6.4	19.8	5 11	16 49.32	-16 8.7	1.115	2.081	11.1	18.0
5 21	16 41.02	-24 42.8	2.627	3.623	3.4	19.6	5 21	16 41.83	-16 29.7	1.071	2.071	6.0	17.7
5 31	16 32.63	-24 38.6	2.613	3.627	0.8	19.4	5 31	16 32.66	-16 56.5	1.051	2.063	2.4	17.4
6 10	16 24.25	-24 30.9	2.629	3.630	3.2	19.6	6 10	16 23.29	-17 29.5	1.053	2.055	6.4	17.7
6 20	16 16.59	-24 21.1	2.673	3.632	6.1	19.8	6 20	16 15.22	-18 8.3	1.079	2.049	11.6	17.9
6 30	16 10.25	-24 11.2	2.743	3.635	8.9	20.0	6 30	16 9.68	-18 53.0	1.124	2.045	16.3	18.2
7 10	16 5.64	-24 3.0	2.836	3.637	11.2	20.2	7 10	16 7.44	-19 43.0	1.187	2.042	20.4	18.4
497957	2006 <i>XD</i> ₃₄		5 31.1 50°38	0°8/31.0	18		71967	2000 <i>WA</i> ₁₂₀		5 31.1 186°02	0°9/31.3	18	
5 1	17 1.33	-17 32.4	1.311	2.210	15.4	19.4	5 1	17 0.55	-24 11.2	1.754	2.639	12.9	19.9
5 11	16 53.84	-18 22.8	1.272	2.233	10.7	19.1	5 11	16 53.16	-24 21.1	1.686	2.639	9.1	19.7
5 21	16 43.86	-19 15.3	1.256	2.256	5.5	18.9	5 21	16 43.55	-24 25.4	1.642	2.639	4.8	19.4
5 31	16 32.64	-20 7.4	1.266	2.279	0.8	18.6	5 31	16 32.68	-24 23.6	1.625	2.638	1.0	19.1
6 10	16 21.70	-20 57.4	1.301	2.303	5.3	19.0	6 10	16 21.77	-24 16.4	1.635	2.637	4.6	19.4
6 20	16 12.38	-21 44.6	1.361	2.328	10.1	19.4	6 20	16 12.03	-24 6.1	1.671	2.635	8.9	19.6
6 30	16 5.69	-22 29.7	1.444	2.352	14.2	19.7	6 30	16 4.41	-23 55.9	1.732	2.632	12.7	19.8
7 10	16 2.12	-23 13.8	1.546	2.377	17.6	19.9	7 10	15 59.52	-23 49.0	1.813	2.629	16.0	20.1
522998	2016 <i>PZ</i> ₁₂₀		5 31.1 136°89	5°8/ 2.2	16		6318	Cronkite		5 31.1 147°24	0°3/31.0	18	
5 1	16 58.93	-39 4.5	2.253	3.095	12.0	21.1	5 1	17 1.49	-19 56.7	2.673	3.541	9.5	21.1
5 11	16 51.91	-39 39.7	2.185	3.097	9.6	21.0	5 11	16 53.11	-20 18.5	2.611	3.558	6.6	20.9
5 21	16 42.84	-40 0.6	2.141	3.100	7.2	20.8	5 21	16 43.27	-20 38.9	2.577	3.573	3.4	20.8
5 31	16 32.64	-40 4.3	2.123	3.103	5.8	20.8	5 31	16 32.68	-20 57.4	2.573	3.587	0.3	20.5
6 10	16 22.42	-39 50.8	2.132	3.105	6.4	20.8	6 10	16 22.16	-21 13.9	2.600	3.600	3.4	20.8
6 20	16 13.26	-39 22.5	2.166	3.107	8.5	20.9	6 20	16 12.46	-21 29.0	2.658	3.612	6.5	21.0
6 30	16 6.06	-38 43.9	2.225	3.110	10.9	21.1	6 30	16 4.23	-21 43.9	2.743	3.623	9.3	21.2
7 10	16 1.39	-38 0.5	2.306	3.112	13.3	21.3	7 10	15 57.91	-22 0.0	2.852	3.632	11.6	21.4
510866	2013 <i>CR</i> ₉₇		5 31.1 187°07	0°7/30.8	18		443375	2014 <i>HN</i> ₃		5 31.1 319°07	2°9/30.2	16	
5 1	16 53.92	-20 1.8	2.733	3.614	8.9	22.7	5 1	16 53.92	-13 12.2	2.137	3.025	10.7	21.1
5 11	16 47.90	-19 49.7	2.661	3.614	6.2	22.5	5 11	16 48.17	-13 5.5	2.069	3.021	7.7	20.9
5 21	16 40.61	-19 35.9	2.615	3.613	3.2	22.3	5 21	16 40.85	-13 2.5	2.026	3.018	4.6	20.7
5 31	16 32.64	-19 21.1	2.598	3.612	0.7	22.1	5 31	16 32.66	-13 4.7	2.009	3.015	3.0	20.6
6 10	16 24.68	-19 6.7	2.611	3.610	3.4	22.3	6 10	16 24.46	-13 13.2	2.021	3.012	5.1	20.7
6 20	16 17.39	-18 54.1	2.651	3.608	6.4	22.5	6 20	16 17.04	-13 28.6	2.059	3.010	8.3	20.9
6 30	16 11.35	-18 44.9	2.718	3.605	9.1	22.7	6 30	16 11.13	-13 51.2	2.121	3.007	11.4	21.1
7 10	16 6.98	-18 40.3	2.808	3.602	11.4	22.8	7 10	16 7.19	-14 20.7	2.205	3.004	14.0	21.3
174484	2003 <i>AG</i> ₆₈		5 31.1 224°19	0°2/31.1	18		71953	2000 <i>WC</i> ₁₀₁		5 31.1 139°89	1°9/31.9	18	
5 1	16 56.64	-21 33.8	2.356	3.237	10.2	20.7	5 1	17 1.03	-28 50.1	1.770	2.647	13.1	19.4
5 11	16 50.06	-21 54.1	2.278	3.231	7.1	20.5	5 11	16 53.31	-28 24.6	1.711	2.658	9.4	19.2
5 21	16 41.83	-22 12.5	2.227	3.224	3.7	20.2	5 21	16 43.51	-27 47.6	1.675	2.669	5.3	19.0
5 31	16 32.64	-22 28.7	2.203	3.217	0.2	19.9	5 31	16 32.70	-26 59.8	1.667	2.678	1.9	18.8
6 10	16 23.36	-22 42.5	2.209	3.210	3.6	20.2	6 10	16 22.12	-26 4.5	1.686	2.687	4.5	19.0
6 20	16 14.81	-22 54.9	2.243	3.203	7.1	20.4	6 20	16 12.90	-25 6.4	1.732	2.696	8.6	19.2
6 30	16 7.75	-23 7.1	2.302	3.195	10.3	20.6	6 30	16 5.91	-24 10.9	1.803	2.704	12.3	19.5
7 10	16 2.70	-23 20.7	2.384	3.187	13.0	20.8	7 10	16 1.62	-23 22.4	1.895	2.711	15.4	19.7
338276	2002 <i>TZ</i> ₃₀₉		5 31.1 220°46	2°3/31.7	18		503377	2016 <i>CG</i> ₄₉		5 31.1 346°63	9°3/ 1.8	17	
5 1	16 58.25	-27 34.4	2.260	3.133	10.8	20.9	5 1	16 54.95	-36 43.1	0.958	1.858	19.6	20.2
5 11	16 51.32	-28 7.5	2.183	3.128	7.8	20.7	5 11	16 50.97	-37 50.6	0.898	1.846	15.6	20.0
5 21	16 42.54	-28 34.7	2.131	3.122	4.6	20.5	5 21	16 43.10	-38 37.1	0.856	1.835	11.7	19.7
5 31	16 32.65	-28 54.3	2.107	3.116	2.3	20.3	5 31	16 32.69	-38 54.3	0.833	1.827	9.3	19.5
6 10	16 22.63	-29 5.8	2.111	3.109	4.2	20.5	6 10	16 21.97	-38 39.7	0.830	1.819	10.5	19.6
6 20	16 13.43	-29 10.3	2.144	3.103	7.5	20.7	6 20	16 13.18	-37 57.8	0.845	1.814	14.3	19.7
6 30	16 5.90	-29 10.3	2.201	3.096	10.6	20.8	6 30	16 8.12	-36 58.4	0.879	1.810	18.6	20.0
7 10	16 0.61	-29 8.7	2.281	3.088	13.4	21.0	7 10	16 7.62	-35 53.1	0.928	1.808	22.7	20.2
38685	2000 <i>QP</i> ₉		5 31.1 252°70	4°6/28.9	18		179560	2002 <i>EL</i> ₁₁		5 31.1 141°73	0°9/30.7	18	
5 1	16 55.21	-11 44.0	1.906	2.795	11.8	18.3	5 1	16 53.88	-19 25.5	2.633	3.515	9.2	21.2
5 11	16 49.21	-10 44.5	1.832	2.783	8.7	18.1	5 11	16 47.87	-19 9.8	2.570	3.523	6.4	21.1
5 21	16 41.44	-9 47.8	1.783	2.770	5.7	17.9	5 21	16 40.60	-18 52.7	2.534	3.531	3.3	20.9
5 31	16 32.65	-8 57.8	1.760	2.758	4.7	17.8	5 31	16 32.68	-18 35.3	2.526	3.539	1.0	20.7
6 10	16 23.82	-8 18.4	1.764	2.745	6.9	17.9	6 10	16 24.84	-18 19.0	2.547	3.546	3.5	20.9
6 20	16 15.86	-7 52.5	1.795	2.732	10.2	18.1	6 20	16 17.73	-18 5.3	2.596	3.552	6.5	21.1
6 30	16 9.59	-7 41.5	1.848	2.718	13.5	18.3	6 30	16 11.92	-17 55.7	2.672	3.559	9.2	21.3
7 10	16 5.52	-7 45.0	1.920	2.704	16.3	18.5	7 10	16 7.80	-17 51.3	2.769	3.565	11.6	21.5
173226	1998 <i>VW</i> ₁₄		5 31.1 271°60	1°3/30.5	18		245847	2006 <i>KE</i> ₈₃		5 31.1 326°45	1		

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
43451	2000 YH ₉₆	5 31.1 227°18		0°5/31.3 18			97210	1999 XX ₃₆	5 31.1 196°74		2°6/ 1.4 18		
5 1	16 58.74	-24 35.7	1.567	2.459	13.7	19.7	5 1	16 58.04	-31 37.2	2.505	3.366	10.3	20.2
5 11	16 52.07	-24 15.1	1.498	2.455	9.7	19.5	5 11	16 50.97	-31 27.9	2.426	3.363	7.6	20.0
5 21	16 43.05	-23 46.6	1.452	2.450	5.1	19.2	5 21	16 42.29	-31 8.5	2.374	3.359	4.7	19.8
5 31	16 32.71	-23 10.9	1.432	2.446	0.5	18.8	5 31	16 32.73	-30 38.6	2.349	3.354	2.6	19.7
6 10	16 22.38	-22 30.9	1.439	2.441	4.9	19.1	6 10	16 23.21	-29 59.7	2.353	3.350	4.0	19.7
6 20	16 13.30	-21 50.9	1.470	2.436	9.6	19.4	6 20	16 14.58	-29 14.6	2.386	3.344	6.9	19.9
6 30	16 6.51	-21 15.4	1.525	2.431	13.8	19.6	6 30	16 7.55	-28 27.2	2.445	3.338	9.8	20.1
7 10	16 2.59	-20 48.0	1.600	2.426	17.3	19.9	7 10	16 2.60	-27 41.4	2.527	3.331	12.3	20.3
507866	2014 JF ₉	5 31.1 109°29		4°3/28.6 18			338857	2003 YE ₃₀	5 31.1 192°17		1°2/31.5 18		
5 1	16 52.78	-10 30.2	2.431	3.313	9.8	21.7	5 1	16 57.16	-25 43.1	2.330	3.207	10.4	21.1
5 11	16 47.10	-9 25.0	2.377	3.323	7.2	21.5	5 11	16 50.43	-25 51.3	2.257	3.205	7.4	20.9
5 21	16 40.19	-8 23.6	2.349	3.332	5.0	21.4	5 21	16 42.05	-25 54.0	2.209	3.204	4.0	20.7
5 31	16 32.69	-7 29.6	2.350	3.341	4.3	21.4	5 31	16 32.73	-25 50.8	2.189	3.201	1.2	20.5
6 10	16 25.31	-6 45.8	2.378	3.350	5.9	21.5	6 10	16 23.39	-25 42.3	2.198	3.199	3.7	20.7
6 20	16 18.70	-6 14.2	2.433	3.359	8.4	21.6	6 20	16 14.88	-25 30.4	2.235	3.196	7.1	20.9
6 30	16 13.42	-5 55.6	2.512	3.368	10.8	21.8	6 30	16 7.96	-25 17.6	2.297	3.192	10.2	21.1
7 10	16 9.82	-5 49.7	2.612	3.376	13.0	22.0	7 10	16 3.12	-25 6.4	2.382	3.188	12.9	21.3
494820	2007 TK ₄₃	5 31.1 275°87		2°0/30.5 17			401816	1995 SL ₇₆	5 31.1 183°95		0°2/31.1 16		
5 1	16 58.10	-18 53.5	1.466	2.365	14.0	21.6	5 1	17 1.30	-22 43.9	1.555	2.445	13.9	23.0
5 11	16 51.87	-18 23.9	1.385	2.346	10.0	21.3	5 11	16 53.87	-22 40.8	1.490	2.446	9.8	22.7
5 21	16 43.09	-17 51.3	1.327	2.326	5.3	21.0	5 21	16 44.00	-22 32.4	1.448	2.446	5.1	22.5
5 31	16 32.71	-17 17.9	1.294	2.306	2.0	20.7	5 31	16 32.76	-22 19.1	1.432	2.446	0.2	22.1
6 10	16 22.08	-16 47.1	1.286	2.286	6.0	20.9	6 10	16 21.54	-22 2.3	1.443	2.445	5.0	22.5
6 20	16 12.54	-16 22.5	1.303	2.265	11.0	21.1	6 20	16 11.61	-21 45.2	1.479	2.443	9.7	22.7
6 30	16 5.26	-16 7.6	1.342	2.245	15.5	21.3	6 30	16 4.05	-21 31.2	1.539	2.441	13.9	23.0
7 10	16 1.00	-16 4.4	1.400	2.224	19.4	21.5	7 10	15 59.45	-21 23.2	1.618	2.438	17.4	23.2
230328	2002 CN ₉₁	5 31.1 176°80		6°6/28.7 18			253692	2003 UH ₂₆₀	5 31.1 194°81		2°6/30.3 17		
5 1	16 55.72	-3 10.1	2.150	3.016	11.6	20.9	5 1	16 59.50	-13 52.5	2.269	3.146	10.7	21.2
5 11	16 49.31	-2 30.2	2.091	3.018	9.1	20.7	5 11	16 52.01	-13 47.1	2.195	3.143	7.6	21.0
5 21	16 41.40	-2 0.8	2.057	3.020	7.2	20.6	5 21	16 42.86	-13 44.5	2.147	3.139	4.4	20.8
5 31	16 32.70	-1 45.2	2.049	3.021	6.6	20.6	5 31	16 32.77	-13 45.6	2.127	3.134	2.6	20.7
6 10	16 24.05	-1 45.4	2.067	3.021	8.0	20.6	6 10	16 22.64	-13 51.5	2.137	3.129	4.9	20.8
6 20	16 16.24	-2 1.6	2.112	3.021	10.3	20.8	6 20	16 13.31	-14 3.0	2.175	3.122	8.1	21.0
6 30	16 9.94	-2 33.0	2.179	3.021	12.8	20.9	6 30	16 5.55	-14 20.8	2.239	3.114	11.3	21.2
7 10	16 5.59	-3 17.1	2.266	3.019	15.0	21.1	7 10	15 59.85	-14 44.9	2.325	3.105	13.9	21.4
36959	2000 SS ₂₇₉	5 31.1 265°03		5°3/28.9 18			429837	2012 QR ₉	5 31.1 2°21		8°8/ 3.5 17		
5 1	16 53.38	-5 54.3	2.326	3.200	10.5	19.5	5 1	16 57.19	-41 36.2	1.299	2.164	17.7	19.8
5 11	16 47.73	-5 25.2	2.250	3.186	8.1	19.3	5 11	16 51.75	-41 58.1	1.239	2.163	14.4	19.6
5 21	16 40.63	-5 3.9	2.199	3.173	6.0	19.2	5 21	16 43.14	-41 54.1	1.199	2.162	11.1	19.4
5 31	16 32.70	-4 53.1	2.175	3.159	5.4	19.1	5 31	16 32.77	-41 20.0	1.180	2.162	9.0	19.2
6 10	16 24.70	-4 54.8	2.178	3.145	6.8	19.2	6 10	16 22.54	-40 17.2	1.183	2.164	9.4	19.3
6 20	16 17.37	-5 9.4	2.207	3.130	9.3	19.3	6 20	16 14.15	-38 52.5	1.209	2.167	12.0	19.4
6 30	16 11.36	-5 36.9	2.261	3.116	11.9	19.5	6 30	16 8.88	-37 16.3	1.256	2.171	15.4	19.6
7 10	16 7.16	-6 15.6	2.334	3.102	14.2	19.6	7 10	16 7.29	-35 39.1	1.321	2.176	18.7	19.8
368294	2002 OF ₂₄	5 31.1 300°09		5°2/ 1.3 18			146820	2001 YQ ₁₂₅	5 31.1 138°31		1°2/31.5 18		
5 1	16 59.78	-33 3.7	1.426	2.308	15.5	20.8	5 1	16 56.46	-25 3.5	2.456	3.333	10.0	20.2
5 11	16 53.68	-33 27.5	1.331	2.275	11.8	20.5	5 11	16 49.86	-25 23.3	2.391	3.340	7.0	20.0
5 21	16 44.33	-33 36.9	1.256	2.241	7.9	20.2	5 21	16 41.73	-25 38.7	2.352	3.347	3.8	19.8
5 31	16 32.73	-33 27.3	1.205	2.208	5.3	20.0	5 31	16 32.77	-25 49.0	2.341	3.353	1.2	19.6
6 10	16 20.47	-32 57.6	1.179	2.174	7.1	20.0	6 10	16 23.82	-25 54.4	2.358	3.359	3.5	19.8
6 20	16 9.32	-32 11.0	1.176	2.141	11.5	20.1	6 20	16 15.68	-25 56.2	2.404	3.365	6.7	20.0
6 30	16 0.86	-31 14.6	1.195	2.108	16.2	20.3	6 30	16 9.02	-25 56.3	2.476	3.370	9.6	20.2
7 10	15 56.12	-30 17.2	1.231	2.074	20.5	20.5	7 10	16 4.32	-25 56.8	2.570	3.376	12.1	20.4
509494	2007 TA ₃₉₇	5 31.1 199°85		0°4/30.9 18			83758	2001 TW ₁₄₅	5 31.1 76°48		1°7/30.6 18		
5 1	16 55.92	-20 28.9	2.820	3.696	8.8	22.0	5 1	16 54.94	-17 3.2	2.055	2.945	11.0	19.5
5 11	16 49.33	-20 29.5	2.741	3.692	6.2	22.2	5 11	16 48.92	-16 57.0	1.994	2.950	7.7	19.3
5 21	16 41.39	-20 29.7	2.689	3.686	3.2	21.8	5 21	16 41.27	-16 51.5	1.958	2.955	4.1	19.1
5 31	16 32.72	-20 28.0	2.667	3.681	0.4	21.5	5 31	16 32.77	-16 47.8	1.949	2.960	1.7	18.9
6 10	16 24.00	-20 25.7	2.674	3.674	3.2	21.8	6 10	16 24.31	-16 47.2	1.968	2.965	4.5	19.1
6 20	16 15.91	-20 23.7	2.711	3.667	6.3	22.0	6 20	16 16.76	-16 50.7	2.013	2.971	8.0	19.3
6 30	16 9.07	-20 23.4	2.774	3.659	9.0	22.1	6 30	16 10.82	-16 59.6	2.083	2.976	11.2	19.6
7 10	16 3.91	-20 26.3	2.860	3.650	11.4	22.3	7 10	16 6.97	-17 14.3	2.174	2.981	13.9	19.8
398449	2011 UK ₅₅	5 31.1 160°76		1°0/31.5 18			339427	2005 EZ ₈₁	5 31.1 180°27		3°9/ 1.6 18		
5 1	16 54.91	-25 33.2	2.856	3.729	8.8	22.0	5 1	16 58.57	-33 59.7	2.213	3.073	11.6	21.3
5 11	16 48.60	-25 41.7	2.787	3.734	6.2	21.9	5 11	16 51.58	-34 13.2	2.142	3.073	8.7	21.1
5 21	16 41.00	-25 45.7	2.745	3.739	3.4	21.7	5 21	16 42.70	-34 15.0	2.095	3.074	5.8	20.9
5 31	16 32.71	-25 45.1	2.731	3.743	1.0	21.5	5 31	16 32.78	-34 3.4	2.075	3.074	4.0	20.8
6 10	16 24.44	-25 40.3	2.747	3.747	3.1	21.7	6 10	16 22.88	-33 39.2	2.083	3.074	5.0	20.9
6 20	16 16.85	-25 32.7	2.791	3.751	5.9	21.9	6 20	16 13.99	-33 5.1	2.118	3.073	7.8	21.0
6 30	16 10.54	-25 24.2	2.862	3.754	8.5	22.0	6 30	16 6.95	-32 25.3	2.178	3.072	10.7	21.2
7 10	16 5.90	-25 16.7	2.956	3.757	10.8	22.2	7 10	16 2.29	-31 44.6	2.259	3.071	13.3	21.4
282008	2011 HV ₅₇	5 31.1 303°99		8°2/28.7 17			140279	2001 SY ₂₇₇	5 31.1 267°74		5°2/ 1.9 18		
5 1	16 54.80	-2 0.2	1.684	2.561	13.8	19.7	5 1	16 58.20	-36 43.0				

EPHEMERIDES

5 31.1

5 31.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
393868	2005 SY ₂₇₉		5 31.1 264°41	2°3/31.8 18			201633	2003 SY ₂₇₉		5 31.1 168°53	0°1/31.2 17		
5 1	16 56.35	-28 17.8	2.314	3.188	10.6	21.0	5 1	16 56.50	-23 27.8	2.224	3.106	10.6	21.3
5 11	16 50.01	-28 44.7	2.236	3.181	7.7	20.8	5 11	16 49.95	-23 9.1	2.157	3.109	7.4	21.1
5 21	16 41.91	-29 5.3	2.184	3.174	4.6	20.6	5 21	16 41.80	-22 45.4	2.115	3.112	3.8	20.8
5 31	16 32.78	-29 18.0	2.158	3.166	2.4	20.4	5 31	16 32.81	-22 17.7	2.101	3.114	0.1	20.5
6 10	16 23.53	-29 22.9	2.161	3.159	4.1	20.5	6 10	16 23.89	-21 47.9	2.115	3.116	3.7	20.8
6 20	16 15.06	-29 21.1	2.191	3.151	7.3	20.7	6 20	16 15.87	-21 18.5	2.157	3.118	7.3	21.1
6 30	16 8.19	-29 15.2	2.247	3.144	10.3	20.9	6 30	16 9.47	-20 52.3	2.225	3.119	10.5	21.3
7 10	16 3.45	-29 8.1	2.325	3.136	13.0	21.1	7 10	16 5.15	-20 31.6	2.314	3.120	13.2	21.5
280930	2006 AH ₈₄		5 31.1 69°53	0°1/31.1 15			431129	2006 KW ₄₁		5 31.1 284°20	0°2/31.0 17		
5 1	17 0.69	-20 20.6	1.651	2.540	13.3	20.8	5 1	16 55.85	-21 42.8	1.868	2.759	11.9	21.4
5 11	16 53.14	-20 58.3	1.606	2.562	9.2	20.6	5 11	16 49.85	-21 36.6	1.794	2.751	8.3	21.1
5 21	16 43.49	-21 34.7	1.586	2.584	4.7	20.4	5 21	16 41.90	-21 27.1	1.744	2.742	4.3	20.9
5 31	16 32.79	-22 8.1	1.593	2.606	0.1	20.0	5 31	16 32.83	-21 14.6	1.720	2.734	0.3	20.5
6 10	16 22.29	-22 38.0	1.626	2.628	4.5	20.5	6 10	16 23.68	-21 0.8	1.724	2.726	4.3	20.8
6 20	16 13.10	-23 4.8	1.687	2.650	8.8	20.7	6 20	16 15.48	-20 47.9	1.754	2.718	8.5	21.1
6 30	16 6.12	-23 30.0	1.771	2.672	12.4	21.0	6 30	16 9.10	-20 38.4	1.808	2.709	12.2	21.3
7 10	16 1.83	-23 55.5	1.876	2.694	15.4	21.3	7 10	16 5.11	-20 34.4	1.882	2.701	15.3	21.5
368882	2006 SU ₂₀		5 31.1 303°39	5°5/29.4 17			304724	2006 XC ₂₅		5 31.1 173°60	0°5/31.4 18		
5 1	16 55.92	-12 3.1	1.332	2.235	14.9	20.7	5 1	16 54.57	-25 4.7	2.551	3.430	9.6	21.1
5 11	16 50.60	-11 16.3	1.247	2.206	11.0	20.4	5 11	16 48.48	-24 42.2	2.481	3.431	6.7	21.0
5 21	16 42.59	-10 33.0	1.184	2.176	7.2	20.1	5 21	16 41.00	-24 14.2	2.436	3.433	3.5	20.8
5 31	16 32.79	-9 58.1	1.144	2.146	5.6	19.9	5 31	16 32.82	-23 41.5	2.420	3.434	0.5	20.5
6 10	16 22.55	-9 36.6	1.128	2.116	8.6	20.0	6 10	16 24.70	-23 5.9	2.433	3.434	3.3	20.7
6 20	16 13.27	-9 32.0	1.135	2.087	13.2	20.1	6 20	16 17.36	-22 29.9	2.474	3.435	6.5	20.9
6 30	16 6.27	-9 46.0	1.162	2.058	17.8	20.3	6 30	16 11.42	-21 56.2	2.541	3.435	9.4	21.1
7 10	16 2.38	-10 17.8	1.205	2.030	21.9	20.5	7 10	16 7.30	-21 27.3	2.631	3.435	11.9	21.3
306993	2001 WO ₂₇		5 31.1 247°66	2°2/30.4 18			78852	2003 QR ₆₂		5 31.1 270°52	2°0/30.6 18		
5 1	16 57.24	-16 37.1	1.941	2.829	11.7	21.1	5 1	16 59.08	-17 45.1	1.621	2.514	13.3	20.1
5 11	16 50.76	-16 17.9	1.860	2.814	8.3	20.9	5 11	16 52.50	-17 30.2	1.533	2.490	9.4	19.8
5 21	16 42.35	-15 59.0	1.803	2.799	4.6	20.6	5 21	16 43.46	-17 14.7	1.468	2.466	5.1	19.5
5 31	16 32.79	-15 41.9	1.773	2.783	2.3	20.4	5 31	16 32.85	-17 0.0	1.429	2.441	2.0	19.3
6 10	16 23.09	-15 28.7	1.771	2.767	5.1	20.6	6 10	16 21.88	-16 48.1	1.417	2.415	5.7	19.4
6 20	16 14.24	-15 21.3	1.795	2.750	9.0	20.8	6 20	16 11.83	-16 41.5	1.430	2.389	10.4	19.6
6 30	16 7.11	-15 21.4	1.844	2.733	12.6	21.0	6 30	16 3.85	-16 42.5	1.466	2.363	14.8	19.8
7 10	16 2.31	-15 30.1	1.913	2.715	15.8	21.1	7 10	15 58.71	-16 52.8	1.521	2.336	18.6	20.0
152621	1996 RY ₁₁		5 31.1 85°07	2°5/31.9 18			254991	2005 SN ₂₈₀		5 31.1 95°65	2°6/29.8 18		
5 1	16 59.51	-28 18.4	1.682	2.565	13.4	20.2	5 1	16 53.07	-15 51.6	2.288	3.177	10.1	20.8
5 11	16 52.43	-28 32.2	1.629	2.579	9.6	19.9	5 11	16 47.47	-15 6.3	2.227	3.181	7.1	20.6
5 21	16 43.18	-28 36.5	1.600	2.593	5.6	19.7	5 21	16 40.49	-14 21.4	2.191	3.185	4.1	20.4
5 31	16 32.80	-28 30.3	1.597	2.606	2.6	19.6	5 31	16 32.81	-13 39.4	2.183	3.189	2.6	20.3
6 10	16 22.59	-28 14.7	1.620	2.620	4.8	19.8	6 10	16 25.23	-13 3.1	2.202	3.193	4.8	20.4
6 20	16 13.72	-27 52.8	1.669	2.634	8.7	20.0	6 20	16 18.44	-12 34.5	2.249	3.197	7.8	20.6
6 30	16 7.09	-27 29.0	1.742	2.647	12.4	20.3	6 30	16 13.08	-12 15.4	2.321	3.201	10.7	20.8
7 10	16 3.23	-27 7.2	1.835	2.660	15.4	20.5	7 10	16 9.54	-12 6.2	2.413	3.205	13.2	21.0
248448	2005 TT ₁₀₄		5 31.1 259°35	0°3/30.9 18			432355	2009 VG ₉₂		5 31.1 200°80	0°4/30.9 17		
5 1	16 54.27	-22 36.9	2.493	3.376	9.6	20.6	5 1	16 57.34	-22 3.8	2.037	2.922	11.3	21.8
5 11	16 48.37	-22 7.3	2.406	3.359	6.7	20.3	5 11	16 50.69	-21 43.7	1.965	2.920	7.9	21.6
5 21	16 41.00	-21 33.1	2.344	3.342	3.5	20.1	5 21	16 42.26	-21 19.3	1.918	2.916	4.1	21.3
5 31	16 32.78	-20 55.3	2.310	3.324	0.3	19.8	5 31	16 32.84	-20 51.6	1.899	2.912	0.4	21.0
6 10	16 24.50	-20 16.2	2.306	3.306	3.6	20.1	6 10	16 23.43	-20 22.8	1.907	2.908	4.1	21.3
6 20	16 16.92	-19 38.3	2.329	3.288	7.0	20.2	6 20	16 14.96	-19 55.4	1.943	2.903	8.0	21.5
6 30	16 10.70	-19 4.3	2.378	3.270	10.1	20.4	6 30	16 8.24	-19 32.5	2.004	2.898	11.5	21.7
7 10	16 6.32	-18 36.6	2.450	3.251	12.7	20.6	7 10	16 3.77	-19 16.2	2.085	2.893	14.5	21.9
484566	2008 KK ₃₈		5 31.1 50°15	1°9/29.7 18			310127	2011 FQ ₁₅₀		5 31.1 153°94	1°6/30.7 17		
5 1	16 47.47	-14 28.6	3.826	4.708	6.6	20.9	5 1	16 59.28	-16 33.7	2.181	3.061	10.9	20.7
5 11	16 43.19	-13 57.2	3.768	4.718	4.6	20.8	5 11	16 51.87	-16 43.1	2.119	3.070	7.6	20.5
5 21	16 38.15	-13 27.0	3.737	4.729	2.8	20.6	5 21	16 42.80	-16 53.8	2.082	3.078	4.1	20.3
5 31	16 32.76	-12 59.4	3.735	4.739	1.9	20.6	5 31	16 32.84	-17 5.9	2.074	3.086	1.6	20.1
6 10	16 27.42	-12 35.5	3.762	4.750	3.2	20.7	6 10	16 22.93	-17 20.1	2.095	3.093	4.3	20.3
6 20	16 22.52	-12 16.6	3.818	4.760	5.1	20.8	6 20	16 13.93	-17 36.7	2.145	3.099	7.8	20.6
6 30	16 18.42	-12 3.2	3.899	4.771	7.0	21.0	6 30	16 6.58	-17 56.7	2.219	3.105	10.9	20.8
7 10	16 15.39	-11 55.8	4.004	4.782	8.6	21.1	7 10	16 1.36	-18 20.6	2.316	3.109	13.6	21.0
247408	2002 CQ ₇₅		5 31.1 36°72	5°9/ 2.5 18			266692	2009 PJ ₁		5 31.1 270°88	1°2/31.5 18		
5 1	16 57.55	-38 53.9	2.029	2.878	12.9	19.7	5 1	16 58.72	-25 24.6	1.721	2.608	13.0	21.2
5 11	16 51.05	-39 16.8	1.967	2.885	10.2	19.5	5 11	16 52.19	-25 21.6	1.633	2.587	9.3	20.9
5 21	16 42.48	-39 23.7	1.929	2.892	7.6	19.4	5 21	16 43.27	-25 11.2	1.570	2.566	5.0	20.6
5 31	16 32.79	-39 12.5	1.916	2.899	6.0	19.3	5 31	16 32.86	-24 52.9	1.532	2.545	1.2	20.3
6 10	16 23.20	-38 43.8	1.928	2.907	6.5	19.3	6 10	16 22.18	-24 28.1	1.521	2.523	4.7	20.5
6 20	16 14.81	-38 0.9	1.967	2.915	8.7	19.5	6 20	16 12.49	-23 59.9	1.536	2.502	9.3	20.7
6 30	16 8.52	-37 9.2	2.029	2.923	11.4	19.7	6 30	16 4.88	-23 32.3	1.575	2.479	13.5	20.9
7 10	16 4.85	-36 14.5	2.112	2.931	13.9	19.9	7 10	16 0.07	-23 9.5	1.634	2.457	17.1	21.1
427932	2005 VS ₃₃		5 31.1 191°54	1°0/30.8 17			258718	2002 GB ₈₂		5 31.1 14°58	0°0/31.1 17		
5 1	16 57.71	-19 32.6											

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
325121	2008 EA ₇₁		5 31.1 148°89	2°2/31.8	17		213439	2001 YF ₂₅		5 31.1 229°63	1°0/31.5	18	
5 1	17 1.22	-27 52.6	1.916	2.792	12.4	22.0	5 1	16 55.46	-25 22.1	2.374	3.253	10.2	21.0
5 11	16 53.51	-28 4.1	1.855	2.801	8.9	21.8	5 11	16 49.31	-25 20.9	2.297	3.247	7.2	20.8
5 21	16 43.75	-28 7.1	1.818	2.810	5.1	21.6	5 21	16 41.56	-25 14.3	2.245	3.240	3.9	20.6
5 31	16 32.90	-28 0.5	1.808	2.818	2.2	21.4	5 31	16 32.92	-25 2.4	2.221	3.233	1.0	20.3
6 10	16 22.14	-27 45.4	1.826	2.826	4.5	21.6	6 10	16 24.24	-24 46.1	2.225	3.226	3.6	20.5
6 20	16 12.56	-27 24.5	1.871	2.833	8.2	21.8	6 20	16 16.34	-24 27.5	2.257	3.219	7.0	20.7
6 30	16 5.04	-27 1.5	1.941	2.839	11.7	22.0	6 30	16 9.93	-24 9.0	2.314	3.212	10.1	20.9
7 10	16 0.12	-26 40.3	2.032	2.844	14.6	22.2	7 10	16 5.51	-23 53.1	2.394	3.204	12.7	21.1
320592	2008 BT ₂₉		5 31.1 96°20	2°2/30.5	17		356334	2010 JV ₁₅₁		5 31.1 6°62	4°9/30.3	17	
5 1	16 59.18	-17 29.1	1.576	2.470	13.5	21.3	5 1	16 55.56	-12 57.2	0.992	1.910	17.4	20.1
5 11	16 52.09	-17 5.6	1.530	2.487	9.4	21.1	5 11	16 50.54	-12 42.3	0.943	1.910	12.5	19.8
5 21	16 42.98	-16 42.1	1.507	2.504	5.1	20.9	5 21	16 42.57	-12 35.5	0.913	1.911	7.5	19.6
5 31	16 32.90	-16 20.8	1.510	2.521	2.2	20.8	5 31	16 32.94	-12 40.0	0.905	1.913	4.9	19.4
6 10	16 23.06	-16 4.1	1.539	2.537	5.5	21.0	6 10	16 23.34	-12 58.1	0.918	1.916	8.2	19.6
6 20	16 14.56	-15 54.1	1.595	2.553	9.6	21.3	6 20	16 15.38	-13 29.8	0.952	1.920	13.2	19.9
6 30	16 8.24	-15 52.5	1.673	2.569	13.3	21.5	6 30	16 10.29	-14 14.2	1.005	1.925	17.9	20.2
7 10	16 4.55	-16 0.0	1.771	2.584	16.4	21.8	7 10	16 8.70	-15 9.0	1.074	1.931	21.9	20.4
303926	2005 UX ₃₈₇		5 31.1 7°98	3°4/31.9	16		359879	2011 WX ₂₈		5 31.1 332°66	0°3/31.3	18	
5 1	16 57.88	-30 12.1	2.143	3.014	11.4	20.0	5 1	16 53.96	-24 40.1	1.972	2.861	11.4	20.0
5 11	16 51.24	-30 59.6	2.073	3.014	8.4	19.8	5 11	16 48.43	-24 6.4	1.900	2.856	8.0	19.7
5 21	16 42.64	-31 39.5	2.029	3.014	5.4	19.6	5 21	16 41.15	-23 25.6	1.852	2.850	4.2	19.5
5 31	16 32.90	-32 9.2	2.012	3.015	3.4	19.4	5 31	16 32.92	-22 39.3	1.831	2.845	0.3	19.2
6 10	16 23.04	-32 27.9	2.022	3.016	4.9	19.5	6 10	16 24.73	-21 50.5	1.837	2.840	4.0	19.5
6 20	16 14.08	-32 36.5	2.060	3.017	7.9	19.7	6 20	16 17.49	-21 2.6	1.870	2.835	7.9	19.7
6 30	16 6.90	-32 37.8	2.122	3.018	10.9	19.9	6 30	16 11.96	-20 19.7	1.927	2.831	11.5	19.9
7 10	16 2.11	-32 35.3	2.206	3.019	13.6	20.1	7 10	16 8.66	-19 44.4	2.006	2.827	14.5	20.1
505521	2013 YZ ₁₆		5 31.1 184°55	2°4/30.2	17		329777	2004 LV ₂₃		5 31.1 341°49	9°8/30.3	17	
5 1	16 55.77	-15 13.3	2.285	3.169	10.3	22.0	5 1	16 57.48	+ 1 1.1	1.373	2.247	16.4	20.3
5 11	16 49.41	-14 53.7	2.217	3.169	7.3	21.8	5 11	16 51.35	+ 1 4.2	1.312	2.240	13.4	20.1
5 21	16 41.55	-14 35.6	2.175	3.169	4.2	21.6	5 21	16 42.85	+ 0 44.6	1.272	2.233	10.8	19.9
5 31	16 32.89	-14 20.4	2.160	3.168	2.4	21.4	5 31	16 32.95	- 0 1.5	1.254	2.227	9.8	19.9
6 10	16 24.24	-14 9.9	2.174	3.167	4.6	21.6	6 10	16 22.96	- 1 14.6	1.260	2.222	11.1	19.9
6 20	16 16.39	-14 5.3	2.215	3.165	7.8	21.8	6 20	16 14.14	- 2 51.1	1.289	2.218	14.0	20.1
6 30	16 10.01	-14 7.9	2.282	3.163	10.8	22.0	6 30	16 7.56	- 4 45.5	1.339	2.214	17.3	20.3
7 10	16 5.55	-14 17.9	2.370	3.161	13.4	22.1	7 10	16 3.85	- 6 50.9	1.407	2.211	20.3	20.5
502786	2015 DD ₉₈		5 31.1 253°93	8°4/ 2.1	18		323339	2003 UE ₂₁₉		5 31.1 165°36	1°7/31.7	17	
5 1	17 4.09	-42 41.2	1.906	2.736	14.4	21.1	5 1	17 0.66	-26 54.1	1.790	2.671	12.9	21.8
5 11	16 56.32	-43 44.9	1.826	2.723	11.9	20.9	5 11	16 53.25	-26 52.8	1.725	2.675	9.2	21.5
5 21	16 45.59	-44 30.9	1.768	2.710	9.7	20.7	5 21	16 43.69	-26 43.0	1.685	2.679	5.1	21.3
5 31	16 32.94	-44 53.3	1.734	2.697	8.4	20.6	5 31	16 32.96	-26 24.4	1.670	2.682	1.7	21.1
6 10	16 19.92	-44 49.6	1.725	2.683	9.0	20.6	6 10	16 22.30	-25 58.4	1.684	2.685	4.5	21.3
6 20	16 8.12	-44 22.0	1.741	2.669	11.1	20.7	6 20	16 12.86	-25 28.4	1.724	2.687	8.6	21.5
6 30	15 58.90	-43 36.6	1.780	2.654	13.7	20.9	6 30	16 5.56	-24 58.5	1.788	2.689	12.3	21.7
7 10	15 53.09	-42 41.4	1.839	2.640	16.3	21.0	7 10	16 0.94	-24 32.7	1.873	2.690	15.5	22.0
323371	2003 WB ₁₀₂		5 31.1 220°63	0°9/31.4	17		276649	2003 UL ₂₆₄		5 31.1 178°50	1°2/30.9	17	
5 1	17 0.26	-24 43.9	1.915	2.796	12.1	22.2	5 1	16 59.84	-18 43.5	1.679	2.570	13.0	20.9
5 11	16 52.98	-24 42.7	1.835	2.786	8.6	21.9	5 11	16 52.75	-18 48.5	1.615	2.571	9.1	20.7
5 21	16 43.58	-24 35.4	1.780	2.776	4.6	21.7	5 21	16 43.48	-18 53.3	1.574	2.572	4.8	20.4
5 31	16 32.93	-24 21.5	1.752	2.765	0.9	21.4	5 31	16 32.97	-18 57.9	1.559	2.572	1.2	20.2
6 10	16 22.15	-24 2.4	1.752	2.754	4.3	21.6	6 10	16 22.45	-19 3.5	1.572	2.572	4.9	20.4
6 20	16 12.37	-23 40.4	1.779	2.741	8.5	21.8	6 20	16 13.06	-19 11.2	1.610	2.572	9.3	20.7
6 30	16 4.53	-23 19.2	1.831	2.728	12.3	22.0	6 30	16 5.77	-19 22.7	1.673	2.571	13.2	20.9
7 10	15 59.25	-23 2.1	1.904	2.714	15.5	22.2	7 10	16 1.15	-19 39.5	1.755	2.570	16.5	21.2
499648	2010 VC ₇₁		5 31.1 129°75	2°9/30.2	17		422942	2002 TM ₃₅₉		5 31.1 196°83	1°2/30.7	17	
5 1	16 58.66	-14 52.1	1.871	2.758	12.1	21.8	5 1	16 58.47	-19 43.2	1.957	2.843	11.7	22.6
5 11	16 51.55	-14 30.9	1.818	2.771	8.5	21.6	5 11	16 51.56	-19 22.8	1.886	2.840	8.2	22.4
5 21	16 42.67	-14 11.8	1.790	2.784	4.9	21.4	5 21	16 42.78	-19 0.0	1.840	2.837	4.3	22.2
5 31	16 32.92	-13 56.9	1.789	2.796	2.9	21.3	5 31	16 32.97	-18 36.0	1.821	2.834	1.2	21.9
6 10	16 23.33	-13 48.0	1.815	2.808	5.4	21.5	6 10	16 23.15	-18 12.9	1.830	2.829	4.5	22.2
6 20	16 14.83	-13 46.5	1.868	2.819	9.0	21.7	6 20	16 14.31	-17 53.3	1.867	2.825	8.5	22.4
6 30	16 8.19	-13 53.3	1.946	2.830	12.3	21.9	6 30	16 7.27	-17 39.5	1.928	2.819	12.0	22.6
7 10	16 3.85	-14 8.5	2.043	2.840	15.1	22.2	7 10	16 2.57	-17 33.2	2.009	2.813	15.0	22.8
505282	2012 VQ ₇₀		5 31.1 100°12	1°7/31.5	17		428130	2006 SO ₇₂		5 31.1 239°79	1°1/30.8	17	
5 1	16 59.81	-25 38.4	2.404	3.275	10.4	21.7	5 1	16 58.77	-19 55.1	1.849	2.737	12.2	22.3
5 11	16 52.20	-26 19.5	2.351	3.296	7.3	21.6	5 11	16 51.98	-19 40.1	1.768	2.723	8.6	22.0
5 21	16 42.99	-26 55.7	2.324	3.316	4.1	21.4	5 21	16 43.10	-19 22.4	1.711	2.709	4.5	21.7
5 31	16 32.93	-27 25.4	2.326	3.336	1.7	21.3	5 31	16 32.97	-19 3.0	1.681	2.694	1.1	21.4
6 10	16 22.95	-27 48.0	2.357	3.356	3.7	21.4	6 10	16 22.69	-18 44.0	1.679	2.679	4.7	21.7
6 20	16 13.87	-28 4.5	2.418	3.376	6.8	21.7	6 20	16 13.35	-18 27.8	1.703	2.663	9.0	21.9
6 30	16 6.43	-28 16.7	2.504	3.394	9.7	21.9	6 30	16 5.88	-18 17.0	1.752	2.647	12.9	22.1
7 10	16 1.08	-28 27.0	2.613	3.413	12.1	22.1	7 10	16 0.92	-18 13.5	1.821	2.630	16.2	22.3
462600	2009 HJ ₄₁		5 31.1 12°02	4°4/29.9	17		380165	2000 QK ₈₂		5 31.1 283°35	2°1/30.4	16	
5 1	16 53.77												

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
427163	2014 <i>UQ</i> ₁₈₉		5 31.1 270°44	5°4/29.5	17		161375	2003 <i>SF</i> ₂₉₁		5 31.1 230°44	1°3/30.6	18	
5 1	16 58.06	-11 15.6	1.466	2.361	14.3	21.2	5 1	16 55.88	-19 26.6	2.251	3.136	10.4	20.2
5 11	16 51.83	-10 33.5	1.390	2.343	10.6	20.9	5 11	16 49.63	-19 0.6	2.172	3.126	7.3	20.0
5 21	16 43.16	-9 56.3	1.335	2.325	6.9	20.7	5 21	16 41.77	-18 32.2	2.118	3.115	3.8	19.8
5 31	16 32.98	-9 28.4	1.306	2.306	5.4	20.5	5 31	16 33.00	-18 3.0	2.092	3.104	1.3	19.5
6 10	16 22.55	-9 13.6	1.301	2.287	8.1	20.6	6 10	16 24.19	-17 35.1	2.095	3.093	4.2	19.7
6 20	16 13.17	-9 14.3	1.321	2.268	12.2	20.8	6 20	16 16.15	-17 10.7	2.125	3.081	7.7	19.9
6 30	16 5.95	-9 31.4	1.362	2.249	16.3	21.0	6 30	16 9.62	-16 52.2	2.180	3.069	11.0	20.1
7 10	16 1.62	-10 3.8	1.421	2.229	19.9	21.2	7 10	16 5.11	-16 41.0	2.257	3.056	13.7	20.3
5680	Nasmyth		5 31.1 196°32	0°3/31.3	18		481398	2006 <i>SP</i> ₆₁		5 31.1 303°42	0°7/30.9	16	
5 1	16 54.30	-23 18.1	2.753	3.631	9.0	18.3	5 1	16 55.65	-21 56.1	1.837	2.729	12.0	22.0
5 11	16 48.30	-23 12.5	2.678	3.629	6.3	18.1	5 11	16 50.01	-21 25.8	1.737	2.694	8.5	21.7
5 21	16 40.99	-23 3.2	2.630	3.626	3.3	17.9	5 21	16 42.21	-20 49.5	1.660	2.659	4.5	21.4
5 31	16 32.96	-22 50.7	2.610	3.624	0.3	17.6	5 31	16 33.01	-20 8.5	1.610	2.624	0.7	21.1
6 10	16 24.93	-22 36.1	2.619	3.620	3.1	17.9	6 10	16 23.49	-19 25.6	1.587	2.589	4.7	21.3
6 20	16 17.57	-22 20.8	2.657	3.617	6.2	18.1	6 20	16 14.72	-18 44.4	1.590	2.553	9.3	21.5
6 30	16 11.47	-22 6.9	2.720	3.613	8.9	18.3	6 30	16 7.74	-18 9.0	1.617	2.518	13.4	21.6
7 10	16 7.06	-21 56.1	2.807	3.609	11.3	18.4	7 10	16 3.26	-17 42.5	1.663	2.482	17.1	21.8
394332	2006 <i>WG</i> ₁₉₂		5 31.1 231°52	0°2/31.0	16		326669	2002 <i>UX</i> ₉		5 31.1 260°59	1°3/31.4	18	
5 1	16 54.39	-23 9.6	2.257	3.142	10.4	21.0	5 1	16 59.92	-24 12.1	1.673	2.561	13.2	20.5
5 11	16 48.54	-22 34.9	2.186	3.140	7.2	20.8	5 11	16 53.11	-24 35.4	1.594	2.548	9.4	20.3
5 21	16 41.15	-21 55.1	2.140	3.138	3.7	20.6	5 21	16 43.84	-24 54.3	1.538	2.535	5.1	20.0
5 31	16 32.96	-21 11.6	2.122	3.135	0.2	20.3	5 31	16 33.04	-25 7.2	1.508	2.521	1.3	19.7
6 10	16 24.83	-20 27.0	2.132	3.133	3.7	20.6	6 10	16 21.98	-25 14.0	1.505	2.507	4.8	19.9
6 20	16 17.55	-19 44.4	2.170	3.131	7.3	20.8	6 20	16 11.95	-25 16.1	1.528	2.493	9.4	20.1
6 30	16 11.79	-19 6.8	2.233	3.128	10.4	21.0	6 30	16 4.06	-25 16.4	1.575	2.479	13.5	20.3
7 10	16 8.00	-18 36.5	2.318	3.126	13.2	21.2	7 10	15 59.06	-25 18.4	1.641	2.464	17.0	20.5
325074	2008 <i>DL</i> ₂		5 31.1 16°85	6°2/29.7	17		29409	1996 <i>VW</i> ₅		5 31.1 207°73	1°1/30.8	18	
5 1	16 54.90	-10 18.9	1.192	2.100	15.9	19.6	5 1	16 56.02	-17 37.0	2.506	3.386	9.6	18.9
5 11	16 49.65	-9 38.6	1.144	2.103	11.7	19.3	5 11	16 49.61	-17 46.9	2.430	3.382	6.7	18.7
5 21	16 41.96	-9 7.6	1.117	2.108	7.8	19.1	5 21	16 41.73	-17 57.4	2.381	3.378	3.6	18.5
5 31	16 32.97	-8 50.4	1.113	2.113	6.2	19.0	5 31	16 33.02	-18 8.8	2.361	3.373	1.1	18.3
6 10	16 24.12	-8 50.3	1.132	2.119	8.7	19.2	6 10	16 24.24	-18 21.3	2.369	3.368	3.7	18.5
6 20	16 16.68	-9 8.0	1.173	2.126	12.8	19.4	6 20	16 16.15	-18 35.8	2.406	3.362	6.9	18.7
6 30	16 11.68	-9 42.3	1.234	2.134	16.7	19.7	6 30	16 9.41	-18 52.8	2.469	3.356	9.9	18.8
7 10	16 9.66	-10 30.4	1.311	2.143	20.1	19.9	7 10	16 4.49	-19 13.3	2.554	3.350	12.4	19.0
242164	2003 <i>FF</i> ₉₈		5 31.1 340°02	0°2/31.2	18 R		449854	2015 <i>LV</i> ₂₈		5 31.1 223°96	5°4/3.4	18	
5 1	16 54.25	-24 17.9	2.055	2.943	11.1	19.6	5 1	16 58.77	-42 5.3	2.662	3.484	11.0	20.8
5 11	16 48.57	-23 46.8	1.985	2.941	7.8	19.4	5 11	16 51.64	-41 59.3	2.580	3.477	8.9	20.7
5 21	16 41.22	-23 9.3	1.940	2.938	4.1	19.1	5 21	16 42.78	-41 37.4	2.522	3.471	6.8	20.5
5 31	16 32.97	-22 27.0	1.922	2.936	0.2	18.8	5 31	16 33.03	-40 58.1	2.490	3.464	5.5	20.4
6 10	16 24.78	-21 42.5	1.932	2.934	3.9	19.1	6 10	16 23.37	-40 2.6	2.486	3.457	5.8	20.4
6 20	16 17.52	-20 59.1	1.969	2.933	7.7	19.4	6 20	16 14.72	-38 54.2	2.509	3.450	7.5	20.5
6 30	16 11.92	-20 20.3	2.030	2.931	11.1	19.6	6 30	16 7.82	-37 37.8	2.559	3.442	9.7	20.7
7 10	16 8.46	-19 48.6	2.112	2.930	14.0	19.8	7 10	16 3.15	-36 19.0	2.632	3.435	11.9	20.8
457600	2009 <i>CR</i> ₄₈		5 31.1 62°47	1°7/30.7	17		86409	2000 <i>AK</i> ₁₈₆		5 31.1 275°79	4°9/29.0	18	
5 1	16 59.27	-19 10.4	1.235	2.140	15.7	21.5	5 1	16 53.29	-7 16.9	2.433	3.309	10.1	19.6
5 11	16 52.62	-18 53.8	1.191	2.154	10.9	21.2	5 11	16 47.77	-6 44.7	2.349	3.288	7.7	19.4
5 21	16 43.45	-18 35.8	1.169	2.169	5.7	21.0	5 21	16 40.82	-6 18.6	2.290	3.267	5.6	19.2
5 31	16 33.01	-18 18.1	1.171	2.183	1.7	20.8	5 31	16 33.03	-6 1.4	2.258	3.245	4.9	19.1
6 10	16 22.85	-18 3.6	1.197	2.198	5.9	21.1	6 10	16 25.11	-5 55.2	2.253	3.223	6.4	19.2
6 20	16 14.32	-17 54.9	1.247	2.213	10.8	21.4	6 20	16 17.79	-6 1.0	2.275	3.201	8.9	19.3
6 30	16 8.42	-17 54.3	1.318	2.228	15.2	21.7	6 30	16 11.72	-6 19.0	2.321	3.179	11.5	19.4
7 10	16 5.66	-18 2.8	1.407	2.244	18.7	22.0	7 10	16 7.39	-6 48.2	2.388	3.156	13.9	19.6
92938	2000 <i>RA</i> ₃₃		5 31.1 174°03	10°0/25.6	18		377688	2005 <i>VY</i> ₆₇		5 31.1 205°55	4°6/28.8	17	
5 1	16 54.77	+ 2 22.6	1.868	2.725	13.5	19.4	5 1	16 56.36	-12 31.0	1.938	2.825	11.7	21.7
5 11	16 48.89	+ 4 6.4	1.819	2.726	11.5	19.3	5 11	16 50.02	-11 13.2	1.872	2.822	8.6	21.5
5 21	16 41.36	+ 5 35.0	1.794	2.727	10.2	19.2	5 21	16 41.98	-9 56.9	1.831	2.818	5.6	21.3
5 31	16 32.98	+ 6 41.7	1.794	2.728	10.3	19.2	5 31	16 33.04	-8 47.0	1.817	2.814	4.7	21.2
6 10	16 24.68	+ 7 22.3	1.817	2.728	11.6	19.3	6 10	16 24.16	-7 48.1	1.832	2.810	6.8	21.4
6 20	16 17.32	+ 7 35.7	1.863	2.728	13.6	19.4	6 20	16 16.22	-7 3.4	1.872	2.805	10.1	21.6
6 30	16 11.62	+ 7 23.6	1.929	2.728	15.8	19.6	6 30	16 9.98	-6 35.0	1.935	2.800	13.2	21.7
7 10	16 8.05	+ 6 49.8	2.012	2.728	17.7	19.7	7 10	16 5.91	-6 22.5	2.018	2.794	15.9	21.9
307555	2003 <i>EP</i> ₄₂		5 31.1 251°77	1°4/31.5	17		426645	2013 <i>SJ</i> ₇₅		5 31.1 137°72	1°7/30.6	17	
5 1	16 56.38	-25 21.1	2.250	3.130	10.6	20.7	5 1	16 57.65	-18 9.3	1.812	2.702	12.2	21.6
5 11	16 50.07	-25 44.4	2.177	3.127	7.5	20.5	5 11	16 51.04	-17 53.9	1.752	2.708	8.6	21.4
5 21	16 42.03	-26 3.0	2.129	3.124	4.2	20.3	5 21	16 42.55	-17 38.0	1.716	2.714	4.5	21.1
5 31	16 33.00	-26 16.2	2.109	3.121	1.4	20.1	5 31	16 33.06	-17 23.0	1.707	2.719	1.7	20.9
6 10	16 23.90	-26 23.8	2.117	3.118	3.8	20.3	6 10	16 23.64	-17 10.6	1.725	2.724	4.8	21.2
6 20	16 15.60	-26 27.2	2.153	3.115	7.2	20.5	6 20	16 15.30	-17 3.0	1.770	2.729	8.8	21.4
6 30	16 8.89	-26 28.3	2.214	3.112	10.4	20.7	6 30	16 8.84	-17 1.7	1.838	2.733	12.4	21.6
7 10	16 4.31	-26 29.6	2.296	3.109	13.1	20.8	7 10	16 4.78	-17 7.8	1.927	2.737	15.4	21.9
243828	2000 <i>TH</i> ₂₅		5 31.1 235°38	2°1/30.1	18		155306	2005 <i>YA</i> ₇₅		5 31.1 215°70	6°7/28.1</		

EPHEMERIDES

5 31.1

5 31.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
382228	2012 <i>RL</i> ₁₃		5 31.1	2°70	3°0/30.3	18	260966	2005 <i>SB</i> ₄₇		5 31.2	112°51	3°1/29.6	17
5 1	16 55.53	-14 46.8	1.673	2.569	12.8	20.0	5 1	16 53.20	-13 55.9	2.356	3.242	10.0	20.9
5 11	16 49.71	-14 30.4	1.611	2.569	9.1	19.8	5 11	16 47.59	-13 11.2	2.296	3.247	7.1	20.7
5 21	16 41.92	-14 17.0	1.573	2.569	5.2	19.6	5 21	16 40.66	-12 28.4	2.262	3.253	4.3	20.5
5 31	16 33.05	-14 8.4	1.560	2.569	3.1	19.4	5 31	16 33.07	-11 50.0	2.255	3.258	3.1	20.4
6 10	16 24.20	-14 6.7	1.574	2.569	5.7	19.6	6 10	16 25.55	-11 18.4	2.277	3.264	5.0	20.6
6 20	16 16.39	-14 13.0	1.613	2.570	9.6	19.8	6 20	16 18.81	-10 55.6	2.326	3.269	7.9	20.8
6 30	16 10.50	-14 28.3	1.675	2.571	13.3	20.0	6 30	16 13.44	-10 42.8	2.399	3.274	10.6	20.9
7 10	16 7.05	-14 52.2	1.756	2.572	16.4	20.3	7 10	16 9.83	-10 40.1	2.493	3.279	13.0	21.1
150963	2001 <i>TG</i> ₁₆₂		5 31.1	101°23	5°3/1.9	17	60989	2000 <i>KJ</i> ₂₂		5 31.2	303°23	0°2/31.1	18
5 1	17 3.39	-36 9.5	1.872	2.727	13.6	20.6	5 1	16 58.04	-21 24.9	1.221	2.127	15.7	19.3
5 11	16 55.17	-36 41.4	1.823	2.748	10.4	20.5	5 11	16 52.50	-21 28.3	1.140	2.104	11.2	19.0
5 21	16 44.70	-36 57.9	1.797	2.769	7.3	20.3	5 21	16 43.86	-21 28.5	1.080	2.080	5.9	18.6
5 31	16 33.09	-36 56.4	1.797	2.789	5.4	20.2	5 31	16 33.13	-21 25.2	1.043	2.057	0.3	18.1
6 10	16 21.71	-36 37.4	1.824	2.809	6.3	20.3	6 10	16 21.89	-21 19.9	1.030	2.034	6.0	18.5
6 20	16 11.77	-36 4.6	1.877	2.828	8.9	20.5	6 20	16 11.82	-21 15.1	1.039	2.011	11.8	18.7
6 30	16 4.21	-35 23.8	1.955	2.847	11.9	20.7	6 30	16 4.42	-21 14.4	1.069	1.988	17.1	18.9
7 10	15 59.53	-34 40.9	2.053	2.865	14.5	21.0	7 10	16 0.64	-21 21.1	1.116	1.967	21.7	19.2
251326	2007 <i>CE</i> ₄₁		5 31.1	154°76	2°8/29.9	17	86070	1999 <i>RZ</i> ₄₃		5 31.2	240°24	0°9/30.8	18
5 1	16 53.13	-13 27.5	2.543	3.426	9.4	21.4	5 1	16 54.28	-19 11.5	2.586	3.469	9.3	19.3
5 11	16 47.49	-13 3.1	2.479	3.429	6.7	21.3	5 11	16 48.41	-19 7.9	2.506	3.460	6.5	19.1
5 21	16 40.60	-12 41.2	2.441	3.432	4.1	21.1	5 21	16 41.15	-19 3.4	2.453	3.450	3.4	18.9
5 31	16 33.04	-12 23.5	2.431	3.435	2.8	21.0	5 31	16 33.09	-18 58.5	2.427	3.440	0.9	18.6
6 10	16 25.52	-12 11.5	2.449	3.437	4.6	21.1	6 10	16 24.96	-18 54.4	2.430	3.430	3.5	18.8
6 20	16 18.69	-12 6.5	2.494	3.440	7.3	21.3	6 20	16 17.47	-18 52.1	2.461	3.419	6.7	19.0
6 30	16 13.14	-12 9.3	2.565	3.442	9.9	21.5	6 30	16 11.27	-18 53.0	2.519	3.408	9.6	19.2
7 10	16 9.24	-12 19.7	2.658	3.444	12.2	21.6	7 10	16 6.80	-18 58.2	2.598	3.398	12.1	19.4
59568	1999 <i>JW</i> ₄₇		5 31.1	332°28	2°0/31.7	18	418237	2008 <i>DG</i> ₃₀		5 31.2	119°67	1°0/30.9	17
5 1	16 57.26	-26 22.7	1.517	2.411	14.0	18.5	5 1	16 59.42	-20 25.4	1.703	2.593	12.9	22.5
5 11	16 51.32	-26 36.7	1.449	2.405	10.0	18.3	5 11	16 52.32	-20 6.9	1.649	2.605	9.0	22.3
5 21	16 42.93	-26 43.0	1.403	2.399	5.6	18.0	5 21	16 43.23	-19 45.5	1.619	2.617	4.6	22.0
5 31	16 33.08	-26 40.4	1.382	2.394	2.0	17.7	5 31	16 33.13	-19 22.7	1.616	2.629	1.0	21.8
6 10	16 23.13	-26 29.9	1.386	2.389	5.0	17.9	6 10	16 23.21	-19 0.6	1.640	2.641	4.7	22.1
6 20	16 14.40	-26 14.0	1.415	2.384	9.6	18.2	6 20	16 14.53	-18 42.0	1.690	2.652	8.9	22.4
6 30	16 7.98	-25 56.8	1.467	2.380	13.7	18.4	6 30	16 7.92	-18 29.3	1.764	2.662	12.6	22.6
7 10	16 4.52	-25 42.4	1.537	2.376	17.3	18.6	7 10	16 3.88	-18 24.4	1.859	2.672	15.7	22.8
2363	Cebriones		5 31.2	347°99	4°8/26.5	18	491865	2013 <i>AD</i> ₁₆₉		5 31.2	92°16	2°4/30.0	17
5 1	16 47.13	+ 0 23.8	4.178	5.024	6.8	16.2	5 1	16 53.87	-15 46.6	2.357	3.244	9.9	22.4
5 11	16 43.00	+ 1 22.9	4.120	5.024	5.7	16.1	5 11	16 48.02	-15 8.3	2.305	3.258	7.0	22.2
5 21	16 38.18	+ 2 15.4	4.088	5.023	4.9	16.1	5 21	16 40.87	-14 30.8	2.279	3.273	4.0	22.0
5 31	16 33.01	+ 2 59.2	4.084	5.022	4.9	16.1	5 31	16 33.10	-13 56.4	2.281	3.288	2.5	21.9
6 10	16 27.87	+ 3 32.5	4.108	5.022	5.6	16.1	6 10	16 25.47	-13 27.4	2.310	3.302	4.5	22.1
6 20	16 23.08	+ 3 54.8	4.158	5.021	6.7	16.2	6 20	16 18.67	-13 5.5	2.368	3.316	7.5	22.3
6 30	16 18.99	+ 4 5.8	4.231	5.020	8.0	16.3	6 30	16 13.27	-12 52.1	2.450	3.330	10.2	22.5
7 10	16 15.84	+ 4 6.3	4.325	5.020	9.1	16.4	7 10	16 9.66	-12 47.5	2.554	3.344	12.6	22.7
34227	Daveyhuang		5 31.2	40°67	1°3/30.7	17	121758	1999 <i>YT</i> ₃		5 31.2	268°40	9°6/3.7	18
5 1	16 57.89	-21 33.3	1.248	2.154	15.5	18.6	5 1	17 6.60	-55 14.7	2.793	3.529	12.6	20.0
5 11	16 51.78	-20 47.3	1.195	2.159	10.8	18.3	5 11	16 57.96	-56 9.7	2.699	3.505	11.4	19.9
5 21	16 43.10	-19 55.2	1.163	2.164	5.6	18.1	5 21	16 46.49	-56 45.3	2.626	3.480	10.3	19.8
5 31	16 33.08	-19 0.4	1.156	2.169	1.4	17.8	5 31	16 33.20	-56 56.1	2.576	3.455	9.7	19.7
6 10	16 23.26	-18 7.9	1.173	2.174	5.9	18.1	6 10	16 19.53	-56 40.2	2.549	3.430	9.8	19.6
6 20	16 14.98	-17 22.9	1.213	2.180	11.0	18.4	6 20	16 7.00	-55 58.7	2.546	3.404	10.6	19.7
6 30	16 9.31	-16 49.8	1.275	2.186	15.5	18.7	6 30	15 56.90	-54 56.6	2.566	3.378	11.9	19.7
7 10	16 6.75	-16 30.5	1.354	2.193	19.2	18.9	7 10	15 50.02	-53 40.9	2.606	3.352	13.4	19.8
431435	2007 <i>PE</i> ₂₆		5 31.2	282°82	5°6/29.1	18	281290	2007 <i>RM</i> ₁₄₄		5 31.2	304°10	3°6/29.9	18
5 1	16 55.33	- 8 1.6	1.937	2.820	11.9	20.6	5 1	16 56.17	-17 34.1	1.221	2.130	15.4	20.1
5 11	16 49.53	- 7 23.7	1.852	2.796	9.1	20.4	5 11	16 51.00	-16 33.9	1.142	2.106	11.1	19.8
5 21	16 41.87	- 6 52.5	1.791	2.772	6.5	20.2	5 21	16 42.98	-15 29.1	1.084	2.083	6.3	19.5
5 31	16 33.07	- 6 31.6	1.756	2.747	5.6	20.1	5 31	16 33.14	-14 24.6	1.049	2.059	3.7	19.2
6 10	16 24.07	- 6 23.8	1.748	2.722	7.5	20.1	6 10	16 22.97	-13 26.6	1.039	2.036	7.6	19.4
6 20	16 15.79	- 6 30.7	1.765	2.698	10.6	20.3	6 20	16 13.99	-12 41.3	1.050	2.013	12.9	19.6
6 30	16 9.10	- 6 52.5	1.804	2.672	13.8	20.4	6 30	16 7.52	-12 13.3	1.082	1.990	17.9	19.8
7 10	16 4.61	- 7 28.0	1.864	2.647	16.8	20.6	7 10	16 4.40	-12 4.2	1.130	1.968	22.2	20.0
202793	2008 <i>QG</i> ₁₃		5 31.2	296°68	0°4/31.3	17	416276	2003 <i>HU</i> ₃₄		5 31.2	322°99	5°5/31.7	17
5 1	16 56.63	-23 34.3	1.637	2.531	13.1	20.6	5 1	17 0.06	-29 49.9	1.142	2.041	17.2	20.4
5 11	16 50.80	-23 25.5	1.556	2.514	9.3	20.3	5 11	16 54.29	-31 1.0	1.073	2.027	12.9	20.1
5 21	16 42.65	-23 10.9	1.498	2.497	4.9	20.0	5 21	16 44.95	-32 3.4	1.024	2.014	8.4	19.8
5 31	16 33.09	-22 50.6	1.466	2.480	0.4	19.6	5 31	16 33.19	-32 50.3	0.997	2.001	5.5	19.6
6 10	16 23.33	-22 26.6	1.460	2.463	4.7	19.9	6 10	16 20.89	-33 18.0	0.992	1.989	7.8	19.7
6 20	16 14.58	-22 1.9	1.479	2.446	9.4	20.1	6 20	16 10.07	-33 27.2	1.010	1.978	12.6	20.0
6 30	16 7.91	-21 40.3	1.521	2.429	13.6	20.3	6 30	16 2.44	-33 23.5	1.048	1.968	17.3	20.2
7 10	16 4.01	-21 24.9	1.583	2.413	17.3	20.5	7 10	15 58.98	-33 14.1	1.102	1.959	21.5	20.4
382950	2004 <i>VP</i> ₁₀		5 31.2	230°86	6°6/1.8	18	415126	2012 <i>DG</i> ₃₅		5 31.2	177°91		

EPHEMERIDES

5 31.2

5 31.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
285879	2001 <i>OJ</i> ₆₁		5 31.2 297°69	1°9/30.7	18		506895	2008 <i>BQ</i> ₅₄		5 31.2 148°07	7°2/28.6	18	
5 1	16 56.89	-16 51.4	1.936	2.825	11.6	20.7	5 1	16 53.97	+ 0 17.5	2.303	3.159	11.3	21.5
5 11	16 50.85	-16 50.4	1.835	2.791	8.3	20.4	5 11	16 48.18	+ 0 50.6	2.248	3.162	9.2	21.4
5 21	16 42.71	-16 50.7	1.759	2.756	4.6	20.1	5 21	16 41.03	+ 1 11.3	2.216	3.164	7.6	21.3
5 31	16 33.17	-16 53.0	1.709	2.720	1.9	19.9	5 31	16 33.17	+ 1 16.4	2.210	3.167	7.2	21.3
6 10	16 23.20	-16 58.7	1.686	2.685	5.0	20.0	6 10	16 25.36	+ 1 4.5	2.229	3.169	8.3	21.3
6 20	16 13.88	-17 8.7	1.690	2.649	9.2	20.2	6 20	16 18.30	+ 0 35.8	2.274	3.171	10.2	21.4
6 30	16 6.18	-17 24.5	1.719	2.613	13.1	20.3	6 30	16 12.60	- 0 8.0	2.343	3.173	12.3	21.6
7 10	16 0.86	-17 47.2	1.767	2.577	16.6	20.5	7 10	16 8.68	- 1 4.3	2.431	3.175	14.3	21.7
478357	2011 <i>YZ</i> ₁		5 31.2 219°47	3°1/1.3	18		333487	2004 <i>VV</i> ₅₉		5 31.2 218°64	0°3/31.3	18	
5 1	16 56.89	-31 30.1	2.487	3.351	10.3	21.5	5 1	16 57.30	-25 0.6	2.022	2.905	11.5	20.7
5 11	16 50.42	-31 55.5	2.411	3.347	7.7	21.3	5 11	16 50.80	-24 23.1	1.948	2.900	8.1	20.4
5 21	16 42.28	-32 12.6	2.360	3.343	4.9	21.1	5 21	16 42.49	-23 38.0	1.898	2.895	4.3	20.2
5 31	16 33.16	-32 19.8	2.337	3.339	3.1	21.0	5 31	16 33.21	-22 46.5	1.876	2.889	0.3	19.8
6 10	16 23.97	-32 17.2	2.342	3.335	4.3	21.0	6 10	16 23.96	-21 51.9	1.882	2.884	4.0	20.1
6 20	16 15.56	-32 6.4	2.374	3.331	7.0	21.2	6 20	16 15.70	-20 58.0	1.915	2.877	8.0	20.4
6 30	16 8.70	-31 50.0	2.433	3.326	9.8	21.4	6 30	16 9.22	-20 9.0	1.973	2.871	11.5	20.6
7 10	16 3.90	-31 31.7	2.513	3.322	12.2	21.5	7 10	16 5.02	-19 28.0	2.053	2.864	14.5	20.8
488905	2005 <i>TC</i> ₈₉		5 31.2 245°08	0°3/31.1	18		302509	2002 <i>GK</i> ₁₈₄		5 31.2 125°63	2°2/30.2	18	
5 1	16 54.82	-21 23.1	2.659	3.539	9.2	22.7	5 1	16 53.67	-15 35.2	2.547	3.431	9.4	21.2
5 11	16 48.82	-21 15.9	2.572	3.524	6.4	22.5	5 11	16 47.89	-15 10.8	2.488	3.440	6.6	21.1
5 21	16 41.40	-21 6.1	2.511	3.508	3.3	22.3	5 21	16 40.85	-14 47.6	2.454	3.448	3.7	20.9
5 31	16 33.16	-20 54.3	2.479	3.492	0.3	22.0	5 31	16 33.18	-14 27.0	2.449	3.457	2.2	20.8
6 10	16 24.81	-20 41.5	2.476	3.476	3.3	22.2	6 10	16 25.58	-14 10.7	2.472	3.465	4.2	20.9
6 20	16 17.09	-20 29.2	2.501	3.460	6.6	22.4	6 20	16 18.72	-14 0.1	2.523	3.473	7.0	21.1
6 30	16 10.64	-20 19.2	2.552	3.443	9.5	22.5	6 30	16 13.15	-13 56.1	2.599	3.480	9.7	21.3
7 10	16 5.92	-20 13.2	2.626	3.425	12.0	22.7	7 10	16 9.25	-13 59.3	2.697	3.488	12.0	21.5
249461	2009 <i>HM</i> ₉₁		5 31.2 290°61	0°1/31.2	18		408384	2013 <i>GH</i> ₁₀₁		5 31.2 91°84	1°4/30.8	18	
5 1	16 55.76	-21 47.7	2.109	2.995	10.9	20.3	5 1	17 1.19	-19 56.3	1.391	2.288	14.8	20.9
5 11	16 49.79	-22 1.0	2.029	2.984	7.7	20.1	5 11	16 53.77	-19 32.7	1.348	2.307	10.3	20.7
5 21	16 42.02	-22 12.0	1.975	2.972	4.0	19.8	5 21	16 44.05	-19 6.4	1.327	2.326	5.3	20.5
5 31	16 33.17	-22 20.6	1.947	2.961	0.2	19.5	5 31	16 33.23	-18 39.5	1.332	2.345	1.4	20.3
6 10	16 24.18	-22 27.1	1.947	2.950	3.9	19.8	6 10	16 22.75	-18 14.9	1.362	2.363	5.5	20.6
6 20	16 15.97	-22 32.7	1.975	2.938	7.7	20.0	6 20	16 13.83	-17 55.7	1.418	2.381	10.1	20.9
6 30	16 9.37	-22 39.0	2.027	2.927	11.1	20.2	6 30	16 7.40	-17 44.5	1.495	2.399	14.2	21.2
7 10	16 4.94	-22 47.8	2.100	2.916	14.1	20.3	7 10	16 3.92	-17 42.8	1.592	2.416	17.5	21.4
93464	2000 <i>SA</i> ₃₆₉		5 31.2 328°29	2°6/1.1	17		21772	1999 <i>RU</i> ₂₁₁		5 31.2 268°40	5°2/2.2	18	
5 1	16 56.29	-29 20.3	1.433	2.326	14.7	19.4	5 1	16 58.13	-38 36.6	2.493	3.332	11.1	18.4
5 11	16 50.81	-29 6.4	1.361	2.315	10.7	19.2	5 11	16 51.50	-39 0.0	2.403	3.315	8.8	18.2
5 21	16 42.74	-28 39.2	1.310	2.305	6.2	18.9	5 21	16 42.94	-39 10.4	2.337	3.297	6.6	18.0
5 31	16 33.18	-27 58.5	1.284	2.295	2.7	18.6	5 31	16 33.22	-39 5.5	2.297	3.279	5.2	17.9
6 10	16 23.54	-27 7.0	1.283	2.285	5.3	18.8	6 10	16 23.34	-38 45.0	2.285	3.261	5.8	17.9
6 20	16 15.21	-26 9.9	1.305	2.277	10.0	19.0	6 20	16 14.28	-38 11.0	2.299	3.243	7.9	18.0
6 30	16 9.33	-25 13.7	1.350	2.268	14.3	19.2	6 30	16 6.93	-37 27.4	2.338	3.224	10.4	18.2
7 10	16 6.53	-24 24.1	1.414	2.261	18.1	19.5	7 10	16 1.87	-36 39.2	2.400	3.206	12.8	18.3
501263	2013 <i>WT</i> ₉		5 31.2 185°33	3°8/29.4	18		99562	2002 <i>FN</i> ₅		5 31.2 83°40	1°1/31.5	17	
5 1	16 56.06	-12 39.7	2.176	3.059	10.8	22.1	5 1	16 59.48	-25 46.2	1.399	2.294	14.8	19.6
5 11	16 49.71	-11 47.0	2.111	3.060	7.8	21.9	5 11	16 52.88	-25 29.4	1.340	2.297	10.5	19.3
5 21	16 41.84	-10 56.5	2.071	3.059	5.0	21.7	5 21	16 43.75	-25 3.1	1.302	2.300	5.7	19.0
5 31	16 33.17	-10 11.6	2.059	3.058	3.9	21.7	5 31	16 33.24	-24 28.1	1.290	2.303	1.1	18.7
6 10	16 24.56	-9 35.2	2.074	3.057	5.8	21.8	6 10	16 22.84	-23 47.3	1.302	2.306	5.1	19.0
6 20	16 16.78	-9 9.7	2.117	3.055	8.8	22.0	6 20	16 13.90	-23 5.4	1.340	2.309	10.0	19.3
6 30	16 10.53	-8 56.2	2.184	3.052	11.8	22.1	6 30	16 7.49	-22 27.7	1.400	2.312	14.3	19.6
7 10	16 6.25	-8 54.8	2.272	3.049	14.3	22.3	7 10	16 4.16	-21 58.1	1.478	2.315	18.0	19.8
308528	2005 <i>UC</i> ₁₀₂		5 31.2 121°45	1°9/30.3	17		105034	2000 <i>KF</i> ₃₇		5 31.2 263°68	4°1/1.0	18	
5 1	16 53.57	-16 10.6	2.579	3.462	9.3	22.0	5 1	17 0.94	-32 51.9	2.384	3.240	11.0	19.7
5 11	16 47.81	-15 49.3	2.519	3.472	6.5	21.8	5 11	16 53.60	-33 41.4	2.288	3.217	8.4	19.5
5 21	16 40.80	-15 28.8	2.486	3.481	3.6	21.6	5 21	16 44.14	-34 22.7	2.217	3.194	5.7	19.3
5 31	16 33.16	-15 10.4	2.481	3.490	2.0	21.5	5 31	16 33.26	-34 52.7	2.174	3.170	4.1	19.2
6 10	16 25.60	-14 55.7	2.504	3.498	4.0	21.7	6 10	16 21.98	-35 9.8	2.159	3.146	5.3	19.2
6 20	16 18.76	-14 46.1	2.556	3.507	6.8	21.9	6 20	16 11.37	-35 14.6	2.172	3.121	8.0	19.3
6 30	16 13.21	-14 42.6	2.632	3.515	9.5	22.1	6 30	16 2.42	-35 9.8	2.211	3.096	11.0	19.5
7 10	16 9.32	-14 45.7	2.731	3.523	11.8	22.2	7 10	15 55.83	-34 59.5	2.271	3.070	13.7	19.6
505496	2013 <i>WM</i> ₆₄		5 31.2 207°25	1°2/30.6	18		382433	1999 <i>TZ</i> ₅₁		5 31.2 272°04	0°4/31.1	17	
5 1	16 57.23	-19 28.8	2.516	3.394	9.7	22.6	5 1	16 56.32	-22 22.5	1.831	2.722	12.1	21.3
5 11	16 50.47	-18 59.9	2.436	3.387	6.8	22.4	5 11	16 50.29	-21 58.5	1.758	2.715	8.5	21.1
5 21	16 42.23	-18 28.5	2.382	3.379	3.6	22.2	5 21	16 42.31	-21 29.5	1.710	2.708	4.4	20.8
5 31	16 33.19	-17 56.1	2.358	3.370	1.2	22.0	5 31	16 33.23	-20 56.8	1.688	2.702	0.4	20.5
6 10	16 24.12	-17 24.7	2.363	3.360	3.9	22.2	6 10	16 24.13	-20 22.9	1.693	2.695	4.4	20.8
6 20	16 15.79	-16 56.5	2.396	3.350	7.1	22.3	6 20	16 16.03	-19 51.0	1.724	2.688	8.6	21.0
6 30	16 8.86	-16 33.8	2.456	3.338	10.1	22.5	6 30	16 9.79	-19 24.4	1.780	2.681	12.3	21.2
7 10	16 3.78	-16 17.9	2.538	3.326	12.7	22.7	7 10	16 5.96	-19 5.5	1.855	2.675	15.5	21.4
71153	1999 <i>XR</i> ₁₉₀		5 31.2 292°60	1°3/31.4	18		275672	2000 <i>QQ</i> ₁₃₆		5			

EPHEMERIDES

5 31.2

5 31.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
31503	Jessicahong		5 31.2 114°71	1.2°/30.7	18		468746	2011 AK ₄₄		5 31.2	9°97	9°4/29.4	17
5 1	16 58.80	-20 27.5	1.870	2.758	12.1	19.2	5 1	16 56.73	+ 0 14.1	1.502	2.374	15.3	20.6
5 11	16 51.73	-19 54.3	1.819	2.774	8.4	19.0	5 11	16 50.68	+ 0 42.6	1.449	2.375	12.5	20.4
5 21	16 42.91	-19 17.9	1.792	2.790	4.3	18.8	5 21	16 42.55	+ 0 52.2	1.417	2.376	10.2	20.3
5 31	16 33.25	-18 40.4	1.793	2.806	1.2	18.6	5 31	16 33.28	+ 0 38.7	1.409	2.377	9.4	20.2
6 10	16 23.81	-18 4.7	1.822	2.821	4.5	18.8	6 10	16 24.06	+ 0 0.7	1.424	2.379	10.8	20.3
6 20	16 15.54	-17 33.7	1.877	2.836	8.4	19.1	6 20	16 15.98	- 1 0.2	1.462	2.380	13.4	20.5
6 30	16 9.16	-17 10.0	1.957	2.850	11.8	19.3	6 30	16 9.94	- 2 20.0	1.521	2.383	16.3	20.7
7 10	16 5.13	-16 55.2	2.058	2.864	14.7	19.6	7 10	16 6.50	- 3 53.5	1.599	2.385	19.0	20.9
412010	2012 TC ₁₉		5 31.2 197°58	9°4/3.4	18		332161	2005 YD ₁₇₅		5 31.2 172°07	6°4/29.0	18	
5 1	17 8.41	-52 15.5	2.593	3.350	13.0	21.7	5 1	16 56.35	- 3 48.1	2.098	2.966	11.8	20.9
5 11	16 59.22	-53 26.0	2.520	3.347	11.5	21.5	5 11	16 49.96	- 3 13.6	2.039	2.968	9.2	20.7
5 21	16 47.18	-54 16.8	2.469	3.344	10.2	21.4	5 21	16 42.03	- 2 49.6	2.004	2.970	7.1	20.6
5 31	16 33.33	-54 42.6	2.442	3.340	9.5	21.4	5 31	16 33.28	- 2 39.1	1.996	2.972	6.5	20.6
6 10	16 19.16	-54 41.3	2.439	3.335	9.6	21.4	6 10	16 24.57	- 2 43.9	2.015	2.973	7.8	20.6
6 20	16 6.22	-54 14.8	2.461	3.330	10.6	21.4	6 20	16 16.71	- 3 4.4	2.059	2.974	10.2	20.8
6 30	15 55.77	-53 28.3	2.506	3.325	12.0	21.5	6 30	16 10.39	- 3 39.2	2.126	2.975	12.8	21.0
7 10	15 48.60	-52 29.2	2.571	3.319	13.5	21.6	7 10	16 6.06	- 4 26.2	2.213	2.975	15.1	21.1
279781	1999 TA ₂₂₀		5 31.2 215°38	2°8/29.8	18		9371	1993 FV ₃₁		5 31.2 102°02	1°4/30.8	18	
5 1	16 55.89	-15 37.1	2.247	3.131	10.4	21.2	5 1	16 58.60	-18 57.6	1.549	2.445	13.6	17.6
5 11	16 49.64	-14 48.1	2.172	3.124	7.4	21.0	5 11	16 52.05	-18 48.6	1.490	2.449	9.5	17.3
5 21	16 41.86	-13 58.7	2.124	3.117	4.3	20.8	5 21	16 43.28	-18 38.6	1.455	2.453	5.0	17.1
5 31	16 33.23	-13 11.8	2.103	3.109	2.8	20.7	5 31	16 33.31	-18 28.6	1.445	2.458	1.4	16.8
6 10	16 24.61	-12 30.5	2.111	3.101	5.1	20.8	6 10	16 23.39	-18 20.6	1.461	2.462	5.2	17.1
6 20	16 16.78	-11 57.2	2.147	3.092	8.3	21.0	6 20	16 14.71	-18 16.5	1.503	2.466	9.6	17.4
6 30	16 10.43	-11 34.1	2.207	3.083	11.3	21.2	6 30	16 8.22	-18 18.5	1.567	2.470	13.6	17.6
7 10	16 6.04	-11 21.8	2.288	3.073	14.0	21.3	7 10	16 4.46	-18 27.7	1.651	2.474	17.0	17.9
120331	2004 NP ₂₆		5 31.2 291°99	2°6/30.2	18		94262	2001 CK ₄₃		5 31.2 143°43	2°9/31.9	18	
5 1	16 53.72	-14 55.7	2.172	3.061	10.6	20.4	5 1	17 1.33	-29 25.6	2.330	3.194	10.9	19.7
5 11	16 48.26	-14 34.1	2.093	3.047	7.5	20.2	5 11	16 53.56	-30 6.7	2.266	3.204	8.0	19.6
5 21	16 41.21	-14 14.2	2.039	3.034	4.4	19.9	5 21	16 43.95	-30 40.2	2.228	3.214	4.9	19.4
5 31	16 33.23	-13 57.7	2.013	3.020	2.7	19.8	5 31	16 33.33	-31 4.1	2.219	3.224	2.9	19.3
6 10	16 25.18	-13 46.6	2.014	3.007	4.9	19.9	6 10	16 22.68	-31 17.9	2.238	3.233	4.4	19.4
6 20	16 17.84	-13 42.3	2.042	2.994	8.2	20.1	6 20	16 12.96	-31 22.8	2.286	3.241	7.3	19.6
6 30	16 11.96	-13 46.1	2.093	2.981	11.4	20.3	6 30	16 4.98	-31 21.4	2.360	3.249	10.2	19.8
7 10	16 8.04	-13 58.3	2.166	2.967	14.2	20.4	7 10	15 59.27	-31 17.2	2.456	3.256	12.7	20.0
395096	2009 KY ₂₈		5 31.2 279°87	5°1/29.6	18		510345	2011 SZ ₁₂₂		5 31.2 163°51	4°2/28.7	18	
5 1	16 54.14	- 6 27.8	2.258	3.133	10.8	20.6	5 1	16 52.88	- 8 15.2	2.895	3.767	8.8	21.9
5 11	16 48.45	- 6 11.8	2.186	3.124	8.2	20.4	5 11	16 47.23	- 7 24.6	2.835	3.772	6.6	21.7
5 21	16 41.27	- 6 4.1	2.138	3.114	5.9	20.3	5 21	16 40.52	- 6 38.5	2.801	3.777	4.7	21.6
5 31	16 33.24	- 6 6.8	2.117	3.105	5.1	20.2	5 31	16 33.27	- 5 59.7	2.795	3.781	4.2	21.6
6 10	16 25.15	- 6 21.3	2.123	3.095	6.5	20.3	6 10	16 26.08	- 5 30.2	2.819	3.784	5.5	21.7
6 20	16 17.75	- 6 47.9	2.155	3.085	9.1	20.4	6 20	16 19.50	- 5 11.4	2.869	3.788	7.6	21.8
6 30	16 11.73	- 7 25.7	2.212	3.076	11.8	20.6	6 30	16 14.02	- 5 3.6	2.945	3.791	9.7	22.0
7 10	16 7.55	- 8 13.3	2.289	3.066	14.2	20.7	7 10	16 9.99	- 5 6.5	3.042	3.793	11.6	22.1
159494	2000 UT ₁₀		5 31.2 226°36	0°9/31.4	18		198767	2005 EF ₉₆		5 31.2 92°93	3°5/29.8	18	
5 1	16 59.86	-23 33.1	2.172	3.050	11.0	19.8	5 1	16 56.02	-13 35.7	1.975	2.862	11.5	20.4
5 11	16 52.69	-24 0.5	2.090	3.040	7.8	19.6	5 11	16 49.72	-12 54.3	1.927	2.879	8.2	20.2
5 21	16 43.58	-24 24.8	2.034	3.030	4.2	19.3	5 21	16 41.87	-12 15.8	1.904	2.895	5.0	20.0
5 31	16 33.29	-24 44.6	2.006	3.019	1.0	19.1	5 31	16 33.29	-11 43.1	1.908	2.911	3.5	20.0
6 10	16 22.80	-24 59.7	2.006	3.007	3.9	19.3	6 10	16 24.90	-11 18.8	1.940	2.927	5.6	20.1
6 20	16 13.11	-25 10.9	2.035	2.995	7.7	19.5	6 20	16 17.51	-11 4.4	1.997	2.943	8.8	20.3
6 30	16 5.10	-25 20.0	2.089	2.983	11.1	19.7	6 30	16 11.79	-11 1.0	2.079	2.959	11.8	20.6
7 10	15 59.37	-25 29.4	2.165	2.970	14.1	19.8	7 10	16 8.16	-11 8.2	2.181	2.974	14.4	20.8
468081	2013 TO ₅₀		5 31.2 329°39	1°0/31.4	17		507328	2011 SL ₁₃₁		5 31.2 137°26	6°7/2.9	18	
5 1	16 54.17	-24 5.4	1.145	2.057	16.0	20.7	5 1	17 3.73	-46 32.4	3.060	3.846	10.5	21.9
5 11	16 49.90	-24 8.5	1.069	2.035	11.5	20.4	5 11	16 55.26	-47 28.7	2.999	3.859	8.9	21.8
5 21	16 42.59	-24 4.7	1.012	2.013	6.2	20.0	5 21	16 44.87	-48 10.0	2.962	3.872	7.5	21.7
5 31	16 33.27	-23 53.6	0.978	1.992	1.0	19.6	5 31	16 33.36	-48 33.1	2.951	3.884	6.7	21.7
6 10	16 23.55	-23 36.7	0.967	1.972	5.9	19.9	6 10	16 21.77	-48 37.2	2.967	3.895	6.9	21.7
6 20	16 15.10	-23 17.5	0.977	1.954	11.7	20.1	6 20	16 11.09	-48 23.9	3.010	3.906	8.0	21.8
6 30	16 9.38	-23 1.0	1.008	1.937	17.0	20.4	6 30	16 2.19	-47 56.9	3.077	3.917	9.5	21.9
7 10	16 7.29	-22 51.2	1.054	1.922	21.5	20.6	7 10	15 55.63	-47 21.1	3.167	3.927	11.0	22.1
506688	2006 TW ₃₃		5 31.2 56°91	5°9/1.5	17		19803	2000 RX ₉₀		5 31.2 51°86	0°5/31.4	18	
5 1	17 1.33	-36 17.8	1.988	2.841	12.9	20.3	5 1	16 58.50	-26 19.1	1.419	2.314	14.7	17.4
5 11	16 53.96	-37 25.1	1.932	2.854	10.1	20.2	5 11	16 51.85	-25 26.2	1.379	2.337	10.2	17.2
5 21	16 44.30	-38 19.2	1.900	2.867	7.4	20.0	5 21	16 43.05	-24 23.1	1.362	2.360	5.4	17.0
5 31	16 33.31	-38 56.0	1.895	2.880	5.9	20.0	5 31	16 33.33	-23 13.2	1.369	2.383	0.6	16.7
6 10	16 22.27	-39 14.3	1.916	2.893	6.7	20.0	6 10	16 24.05	-22 1.8	1.403	2.407	4.8	17.1
6 20	16 12.39	-39 15.8	1.963	2.906	9.1	20.2	6 20	16 16.37	-20 54.8	1.462	2.430	9.4	17.4
6 30	16 4.69	-39 4.7	2.034	2.919	11.8	20.4	6 30	16 11.09	-19 57.5	1.544	2.454	13.4	17.7
7 10	15 59.78	-38 46.6	2.125	2.932	14.2	20.6	7 10	16 8.60	-19 12.7	1.646	2.479	16.6	17.9
504322	2007 RL ₁₉₂		5 31.2 295°21	2°8/30.5	17		332124	2005 VM ₈₃		5 31.2 266°33	4°4/29.1	17	
5 1	16 58.76	-17											

EPHEMERIDES

5 31.2

5 31.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
64192	2001 <i>TL</i> ₇₀		5 31.2 149°08	0°2/31.3	18		391712	2008 <i>CD</i> ₁₉		5 31.2	2°70	10°0/27.4	16
5 1	17 1.82	-22 1.9	1.500	2.392	14.2	19.1	5 1	16 51.70	+ 2 25.4	1.718	2.584	14.0	20.4
5 11	16 54.44	-22 12.2	1.441	2.397	10.0	18.8	5 11	16 47.00	+ 3 29.9	1.669	2.584	11.8	20.3
5 21	16 44.60	-22 18.8	1.404	2.402	5.2	18.6	5 21	16 40.61	+ 4 16.9	1.642	2.584	10.3	20.2
5 31	16 33.37	-22 21.1	1.393	2.407	0.2	18.2	5 31	16 33.33	+ 4 41.0	1.638	2.584	10.1	20.2
6 10	16 22.18	-22 20.1	1.409	2.411	5.0	18.6	6 10	16 26.11	+ 4 39.6	1.657	2.586	11.3	20.3
6 20	16 12.34	-22 17.9	1.450	2.415	9.7	18.9	6 20	16 19.82	+ 4 12.8	1.697	2.589	13.4	20.4
6 30	16 4.91	-22 17.5	1.514	2.419	13.9	19.1	6 30	16 15.21	+ 3 23.3	1.758	2.592	15.7	20.5
7 10	16 0.49	-22 21.3	1.597	2.422	17.4	19.4	7 10	16 12.74	+ 2 15.6	1.836	2.596	17.8	20.7
310295	2011 <i>UF</i> ₈₃		5 31.2 250°26	2°7/31.9	17		358379	2006 <i>XY</i> ₇₁		5 31.2 350°19	3°2/	1.8	18
5 1	17 1.21	-28 0.7	1.406	2.295	15.1	21.0	5 1	16 56.19	-33 1.7	2.211	3.076	11.3	20.0
5 11	16 54.40	-28 14.5	1.336	2.289	11.0	20.7	5 11	16 50.05	-32 50.2	2.139	3.076	8.4	19.8
5 21	16 44.74	-28 18.0	1.289	2.283	6.4	20.4	5 21	16 42.17	-32 26.9	2.092	3.075	5.4	19.6
5 31	16 33.38	-28 9.3	1.266	2.276	2.8	20.2	5 31	16 33.37	-31 51.3	2.071	3.075	3.3	19.4
6 10	16 21.88	-27 49.2	1.268	2.269	5.6	20.3	6 10	16 24.64	-31 5.4	2.078	3.074	4.4	19.5
6 20	16 11.77	-27 21.3	1.294	2.262	10.4	20.6	6 20	16 16.89	-30 12.6	2.112	3.074	7.4	19.7
6 30	16 4.30	-26 51.1	1.343	2.255	14.8	20.8	6 30	16 10.88	-29 17.4	2.172	3.074	10.4	19.9
7 10	16 0.18	-26 24.1	1.411	2.248	18.6	21.1	7 10	16 7.09	-28 24.2	2.253	3.074	13.1	20.1
340547	2006 <i>KM</i> ₂₈		5 31.2 185°78	0°4/31.3	18		522376	2016 <i>CY</i> ₃₀₂		5 31.2 84°72	4°4/	1.5	17
5 1	16 57.53	-22 52.2	1.995	2.880	11.5	21.2	5 1	17 2.18	-31 45.7	1.397	2.280	15.7	21.7
5 11	16 51.06	-23 1.2	1.926	2.880	8.1	21.0	5 11	16 54.96	-32 7.7	1.344	2.289	11.6	21.5
5 21	16 42.73	-23 6.5	1.882	2.880	4.3	20.8	5 21	16 44.95	-32 15.2	1.311	2.299	7.4	21.2
5 31	16 33.35	-23 8.0	1.866	2.879	0.4	20.4	5 31	16 33.44	-32 5.8	1.303	2.308	4.5	21.1
6 10	16 23.94	-23 6.4	1.877	2.879	4.0	20.7	6 10	16 22.08	-31 40.6	1.320	2.318	6.2	21.2
6 20	16 15.47	-23 3.3	1.915	2.878	7.9	21.0	6 20	16 12.37	-31 4.1	1.362	2.327	10.2	21.5
6 30	16 8.77	-23 0.8	1.977	2.878	11.4	21.2	6 30	16 5.44	-30 22.9	1.426	2.337	14.2	21.7
7 10	16 4.38	-23 1.3	2.061	2.877	14.3	21.4	7 10	16 1.86	-29 43.2	1.508	2.346	17.6	22.0
191676	2004 <i>RR</i> ₄₆		5 31.2 236°97	0°4/31.1	18		315980	2009 <i>CY</i> ₃₅		5 31.2 342°21	3°5/30.8	17	
5 1	16 57.68	-21 26.9	2.042	2.927	11.3	21.7	5 1	16 55.11	-14 23.1	0.996	1.915	17.2	19.3
5 11	16 51.19	-21 14.6	1.962	2.916	7.9	21.4	5 11	16 50.64	-14 36.0	0.934	1.902	12.4	19.0
5 21	16 42.82	-20 58.7	1.907	2.904	4.1	21.2	5 21	16 43.03	-14 57.3	0.891	1.891	7.1	18.7
5 31	16 33.37	-20 40.0	1.879	2.892	0.4	20.9	5 31	16 33.41	-15 28.1	0.870	1.881	3.5	18.4
6 10	16 23.81	-20 20.2	1.879	2.880	4.1	21.1	6 10	16 23.50	-16 9.0	0.870	1.872	7.3	18.6
6 20	16 15.11	-20 1.6	1.906	2.867	8.1	21.4	6 20	16 15.02	-16 58.9	0.891	1.865	13.0	18.9
6 30	16 8.11	-19 46.7	1.958	2.853	11.7	21.5	6 30	16 9.42	-17 56.8	0.931	1.859	18.2	19.1
7 10	16 3.38	-19 37.7	2.031	2.840	14.7	21.7	7 10	16 7.56	-19 1.2	0.987	1.855	22.6	19.4
103034	1999 <i>XD</i> ₁₁₇		5 31.2 278°00	2°8/31.8	18		511845	2015 <i>FA</i> ₃₃₀		5 31.2 177°84	7°5/	1.3	18
5 1	17 1.31	-27 27.5	1.585	2.469	14.0	19.6	5 1	17 5.70	-39 31.4	1.972	2.810	13.7	21.3
5 11	16 54.53	-28 0.5	1.496	2.446	10.3	19.3	5 11	16 57.44	-40 59.7	1.904	2.810	11.1	21.1
5 21	16 44.93	-28 26.6	1.430	2.423	6.1	19.0	5 21	16 46.37	-42 13.6	1.860	2.811	8.7	21.0
5 31	16 33.42	-28 42.8	1.389	2.399	2.9	18.7	5 31	16 33.49	-43 6.8	1.842	2.811	7.5	20.9
6 10	16 21.40	-28 47.9	1.375	2.375	5.5	18.8	6 10	16 20.24	-43 36.4	1.850	2.811	8.2	21.0
6 20	16 10.37	-28 43.5	1.386	2.350	10.1	19.0	6 20	16 8.11	-43 43.3	1.884	2.811	10.4	21.1
6 30	16 1.67	-28 33.5	1.419	2.326	14.6	19.2	6 30	15 58.40	-43 32.6	1.941	2.811	12.9	21.2
7 10	15 56.18	-28 22.9	1.472	2.301	18.4	19.4	7 10	15 51.91	-43 11.2	2.019	2.810	15.4	21.4
191764	2004 <i>TH</i> ₄₅		5 31.2 210°46	0°5/31.4	18		254209	2004 <i>RP</i> ₈₇		5 31.2 285°48	4°3/28.9	18	
5 1	16 57.82	-24 8.2	2.049	2.931	11.4	21.5	5 1	16 52.87	-10 50.6	2.296	3.181	10.2	20.7
5 11	16 51.25	-24 1.7	1.975	2.927	8.0	21.3	5 11	16 47.62	-9 57.4	2.218	3.165	7.6	20.5
5 21	16 42.83	-23 49.7	1.926	2.923	4.3	21.0	5 21	16 40.91	-9 7.2	2.165	3.150	5.1	20.3
5 31	16 33.37	-23 32.6	1.904	2.918	0.6	20.7	5 31	16 33.39	-8 23.4	2.139	3.134	4.3	20.2
6 10	16 23.88	-23 11.9	1.910	2.912	4.0	21.0	6 10	16 25.80	-7 49.0	2.141	3.119	6.1	20.3
6 20	16 15.32	-22 49.9	1.944	2.907	7.8	21.2	6 20	16 18.88	-7 26.2	2.169	3.103	8.9	20.4
6 30	16 8.50	-22 29.5	2.002	2.901	11.3	21.4	6 30	16 13.30	-7 16.1	2.221	3.088	11.7	20.6
7 10	16 3.98	-22 13.6	2.082	2.895	14.3	21.6	7 10	16 9.52	-7 18.6	2.294	3.072	14.2	20.7
10765	1990 <i>UZ</i>		5 31.2 275°61	1°6/30.8	18		250344	2003 <i>SQ</i> ₁₈₃		5 31.2 200°54	0°8/31.5	17	
5 1	16 55.90	-16 36.8	2.173	3.059	10.7	16.5	5 1	17 0.66	-25 24.3	1.986	2.864	11.9	22.0
5 11	16 49.86	-16 43.9	2.093	3.047	7.5	16.3	5 11	16 53.29	-25 8.4	1.910	2.860	8.4	21.8
5 21	16 42.11	-16 52.7	2.039	3.035	4.1	16.0	5 21	16 43.93	-24 45.1	1.859	2.855	4.5	21.5
5 31	16 33.36	-17 3.7	2.012	3.023	1.6	15.8	5 31	16 33.46	-24 14.7	1.836	2.849	0.8	21.2
6 10	16 24.47	-17 17.3	2.013	3.011	4.3	16.0	6 10	16 22.96	-23 39.3	1.841	2.843	4.1	21.5
6 20	16 16.31	-17 34.3	2.041	2.999	7.9	16.2	6 20	16 13.50	-23 2.0	1.874	2.836	8.1	21.7
6 30	16 9.65	-17 55.4	2.094	2.986	11.2	16.4	6 30	16 5.94	-22 26.9	1.931	2.828	11.8	21.9
7 10	16 5.05	-18 21.1	2.169	2.974	14.0	16.5	7 10	16 0.83	-21 57.2	2.010	2.819	14.9	22.1
342389	2008 <i>UT</i> ₃₈		5 31.2 149°84	1°2/30.7	17		335024	2004 <i>PD</i> ₂₀		5 31.2 314°23	10°1/30.9	17	
5 1	16 56.39	-20 38.5	2.074	2.960	11.1	21.4	5 1	16 59.44	-33 26.2	0.862	1.770	20.4	19.8
5 11	16 50.07	-19 58.4	2.010	2.965	7.7	21.2	5 11	16 55.59	-35 15.4	0.775	1.730	16.3	19.4
5 21	16 42.13	-19 14.7	1.971	2.969	4.0	21.0	5 21	16 46.74	-36 59.8	0.705	1.691	12.2	19.0
5 31	16 33.36	-18 29.5	1.961	2.973	1.2	20.8	5 31	16 33.54	-38 26.6	0.654	1.652	10.1	18.7
6 10	16 24.69	-17 45.9	1.978	2.977	4.3	21.0	6 10	16 18.05	-39 23.4	0.622	1.614	12.5	18.7
6 20	16 16.98	-17 7.0	2.022	2.980	7.9	21.3	6 20	16 3.33	-39 44.7	0.608	1.577	18.0	18.7
6 30	16 10.92	-16 35.3	2.092	2.984	11.2	21.5	6 30	15 52.62	-39 35.7	0.608	1.541	24.1	18.9
7 10	16 6.99	-16 12.7	2.182	2.987	14.0	21.7	7 10	15 48.09	-39 9.3	0.620	1.507	29.8	19.0
478178	2011 <i>UU</i> ₁₉₈		5 31.2 227°45	1°2/30.7	18		370161	2001 <i>YB</i> ₁₃₃					

EPHEMERIDES

5 31.2

5 31.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
418140	2008 AG ₅₀		5 31.2 132°52	2°6/ 1.1 17			106793	2000 XB ₂₆		5 31.2 96°70	6°0/ 3.1 18		
5 1	17 0.90	-29 19.0	1.619	2.500	14.0	21.9	5 1	16 59.26	-41 39.2	2.423	3.251	11.8	19.5
5 11	16 53.74	-29 16.6	1.559	2.507	10.1	21.7	5 11	16 52.24	-41 59.7	2.361	3.261	9.5	19.4
5 21	16 44.22	-29 2.6	1.521	2.513	5.9	21.5	5 21	16 43.35	-42 4.5	2.322	3.271	7.4	19.2
5 31	16 33.46	-28 36.5	1.509	2.519	2.7	21.3	5 31	16 33.50	-41 51.6	2.309	3.280	6.1	19.2
6 10	16 22.81	-28 0.3	1.524	2.524	5.0	21.4	6 10	16 23.75	-41 21.6	2.323	3.290	6.4	19.2
6 20	16 13.54	-27 18.1	1.564	2.530	9.1	21.7	6 20	16 15.09	-40 37.3	2.362	3.300	8.1	19.3
6 30	16 6.63	-26 35.4	1.628	2.535	13.0	21.9	6 30	16 8.33	-39 43.6	2.427	3.309	10.2	19.5
7 10	16 2.63	-25 57.0	1.712	2.540	16.3	22.2	7 10	16 3.95	-38 45.9	2.514	3.319	12.4	19.6
378919	2008 UH ₉₃		5 31.2 154°07	1°8/30.7 18			166415	2002 OQ ₁₆		5 31.2 324°49	7°2/28.6 16		
5 1	16 57.46	-16 8.5	2.321	3.202	10.3	21.0	5 1	16 53.14	-7 18.0	1.498	2.394	14.0	19.8
5 11	16 50.72	-16 8.5	2.258	3.209	7.2	20.8	5 11	16 48.44	-6 18.5	1.426	2.375	10.8	19.5
5 21	16 42.48	-16 9.8	2.221	3.216	4.0	20.6	5 21	16 41.60	-5 27.4	1.376	2.356	8.1	19.3
5 31	16 33.43	-16 13.1	2.212	3.222	1.8	20.5	5 31	16 33.46	-4 50.3	1.349	2.338	7.3	19.2
6 10	16 24.42	-16 19.3	2.231	3.228	4.2	20.7	6 10	16 25.16	-4 32.0	1.347	2.320	9.4	19.3
6 20	16 16.22	-16 29.1	2.279	3.233	7.4	20.9	6 20	16 17.80	-4 34.4	1.367	2.303	12.8	19.4
6 30	16 9.51	-16 43.2	2.353	3.238	10.4	21.1	6 30	16 12.37	-4 57.6	1.408	2.288	16.3	19.6
7 10	16 4.74	-17 2.3	2.448	3.242	12.9	21.3	7 10	16 9.53	-5 39.2	1.466	2.273	19.5	19.8
130871	2000 VG ₂		5 31.2 70°28	6°5/ 4.3 18			469309	1999 RZ ₁₈₉		5 31.2 295°94	8°0/ 1.5 18		
5 1	17 6.57	-43 5.8	1.817	2.645	15.1	18.5	5 1	17 2.93	-39 48.5	1.768	2.614	14.6	20.9
5 11	16 57.20	-42 35.7	1.776	2.678	11.9	18.4	5 11	16 56.01	-40 53.4	1.670	2.582	12.0	20.7
5 21	16 45.71	-41 42.3	1.758	2.712	8.9	18.3	5 21	16 45.92	-41 43.7	1.593	2.550	9.4	20.5
5 31	16 33.49	-40 25.1	1.765	2.745	6.7	18.2	5 31	16 33.57	-42 12.8	1.542	2.517	8.0	20.3
6 10	16 22.06	-38 48.8	1.799	2.778	6.9	18.3	6 10	16 20.45	-42 16.8	1.515	2.485	8.9	20.3
6 20	16 12.56	-37 1.0	1.861	2.810	9.1	18.5	6 20	16 8.27	-41 56.6	1.512	2.452	11.6	20.4
6 30	16 5.76	-35 10.7	1.948	2.842	11.8	18.7	6 30	15 58.59	-41 17.6	1.532	2.419	14.8	20.5
7 10	16 1.93	-33 25.7	2.057	2.874	14.3	19.0	7 10	15 52.45	-40 28.2	1.571	2.386	18.1	20.6
335599	2006 DY ₂₁₆		5 31.2 292°34	6°1/ 2.1 18			336045	2007 YN ₆₀		5 31.2 299°76	10°4/ 4.9 17		
5 1	16 59.90	-37 1.3	1.736	2.597	14.2	19.9	5 1	17 6.09	-45 26.6	1.102	1.956	21.0	19.7
5 11	16 53.42	-37 30.8	1.655	2.581	11.1	19.6	5 11	16 58.87	-45 17.5	1.034	1.948	17.4	19.4
5 21	16 44.28	-37 44.5	1.595	2.566	8.1	19.4	5 21	16 47.41	-44 30.4	0.983	1.941	13.7	19.2
5 31	16 33.48	-37 38.5	1.560	2.550	6.2	19.3	5 31	16 33.59	-42 58.5	0.953	1.933	10.9	19.0
6 10	16 22.44	-37 12.4	1.550	2.535	7.1	19.3	6 10	16 20.03	-40 44.5	0.944	1.926	10.9	19.0
6 20	16 12.57	-36 29.3	1.565	2.520	10.0	19.4	6 20	16 9.05	-38 0.8	0.957	1.919	13.9	19.1
6 30	16 5.10	-35 35.3	1.603	2.504	13.5	19.6	6 30	16 2.20	-35 6.2	0.992	1.913	18.0	19.3
7 10	16 0.76	-34 37.8	1.661	2.489	16.7	19.8	7 10	15 59.98	-32 18.4	1.045	1.907	22.0	19.6
190598	2000 UY ₄₅		5 31.2 162°31	2°7/29.9 18			429546	2011 CU ₁₇		5 31.2 337°71	1°1/30.9 18		
5 1	16 56.71	-15 54.9	2.209	3.093	10.6	20.7	5 1	16 56.10	-19 24.7	1.361	2.266	14.5	19.8
5 11	16 50.20	-15 6.7	2.147	3.098	7.5	20.6	5 11	16 50.75	-19 25.2	1.294	2.257	10.2	19.5
5 21	16 42.20	-14 18.4	2.110	3.103	4.3	20.4	5 21	16 42.88	-19 24.9	1.249	2.249	5.4	19.2
5 31	16 33.43	-13 33.0	2.101	3.108	2.7	20.3	5 31	16 33.50	-19 24.5	1.228	2.242	1.1	18.9
6 10	16 24.76	-12 53.2	2.121	3.112	5.0	20.4	6 10	16 23.98	-19 25.4	1.232	2.235	5.5	19.1
6 20	16 16.98	-12 21.5	2.168	3.115	8.2	20.6	6 20	16 15.67	-19 29.6	1.259	2.229	10.4	19.4
6 30	16 10.73	-11 59.8	2.240	3.118	11.2	20.8	6 30	16 9.69	-19 39.2	1.309	2.224	14.9	19.7
7 10	16 6.45	-11 48.7	2.334	3.120	13.7	21.0	7 10	16 6.72	-19 55.4	1.376	2.219	18.7	19.9
46828	1998 OU ₁₀		5 31.2 293°97	5°5/29.7 18			314080	2005 CQ ₂₈		5 31.2 236°22	3°3/ 1.2 17		
5 1	16 56.77	-10 26.3	1.465	2.361	14.2	18.3	5 1	17 1.41	-29 52.0	1.583	2.464	14.3	21.4
5 11	16 51.04	-9 50.9	1.393	2.346	10.6	18.0	5 11	16 54.40	-30 8.2	1.510	2.457	10.5	21.1
5 21	16 42.96	-9 22.3	1.343	2.331	7.0	17.8	5 21	16 44.76	-30 13.2	1.460	2.450	6.4	20.9
5 31	16 33.46	-9 4.3	1.317	2.317	5.6	17.7	5 31	16 33.54	-30 4.8	1.434	2.442	3.4	20.7
6 10	16 23.77	-9 0.4	1.316	2.302	8.0	17.8	6 10	16 22.19	-29 43.6	1.435	2.435	5.5	20.8
6 20	16 15.11	-9 12.1	1.339	2.287	12.0	18.0	6 20	16 12.09	-29 13.0	1.462	2.427	9.7	21.0
6 30	16 8.57	-9 39.5	1.382	2.273	15.9	18.2	6 30	16 4.44	-28 38.3	1.511	2.418	13.8	21.2
7 10	16 4.81	-10 21.0	1.444	2.258	19.4	18.3	7 10	15 59.90	-28 5.1	1.580	2.410	17.3	21.4
464864	2005 GF ₁₃₆		5 31.2 334°08	4°0/30.5 17			304451	2006 UO ₁₃		5 31.2 163°83	2°8/29.9 17		
5 1	16 54.20	-14 7.0	1.102	2.018	16.2	20.2	5 1	16 54.10	-14 57.9	2.314	3.200	10.1	21.0
5 11	16 49.85	-13 59.6	1.033	2.000	11.7	19.9	5 11	16 48.40	-14 14.4	2.249	3.201	7.2	20.8
5 21	16 42.59	-13 58.4	0.984	1.982	6.9	19.6	5 21	16 41.29	-13 32.0	2.210	3.203	4.3	20.6
5 31	16 33.46	-14 6.2	0.957	1.966	4.0	19.3	5 31	16 33.47	-12 52.9	2.199	3.204	2.8	20.5
6 10	16 23.99	-14 25.1	0.952	1.951	7.5	19.5	6 10	16 25.69	-12 20.0	2.216	3.205	4.9	20.7
6 20	16 15.77	-14 56.1	0.968	1.937	12.7	19.7	6 20	16 18.70	-11 55.1	2.260	3.207	7.9	20.9
6 30	16 10.16	-15 38.9	1.003	1.925	17.7	20.0	6 30	16 13.10	-11 39.7	2.329	3.207	10.7	21.0
7 10	16 8.01	-16 32.1	1.055	1.915	22.0	20.2	7 10	16 9.32	-11 34.4	2.419	3.208	13.2	21.2
504091	2006 DD ₂₁		5 31.2 88°30	0°2/31.3 17			179345	2001 XP ₁₀₇		5 31.2 87°41	1°1/30.9 18		
5 1	16 57.51	-23 19.2	1.760	2.650	12.6	21.4	5 1	16 56.51	-17 49.6	2.177	3.062	10.7	20.3
5 11	16 51.18	-23 7.6	1.699	2.654	8.8	21.2	5 11	16 50.18	-18 2.4	2.117	3.070	7.5	20.1
5 21	16 42.86	-22 50.7	1.661	2.659	4.6	20.9	5 21	16 42.26	-18 15.9	2.082	3.079	3.9	19.9
5 31	16 33.48	-22 29.4	1.649	2.663	0.2	20.6	5 31	16 33.49	-18 30.2	2.074	3.087	1.1	19.7
6 10	16 24.17	-22 5.5	1.665	2.668	4.3	20.9	6 10	16 24.75	-18 45.5	2.095	3.095	4.0	19.9
6 20	16 15.97	-21 42.0	1.707	2.672	8.5	21.2	6 20	16 16.86	-19 2.6	2.144	3.103	7.4	20.2
6 30	16 9.76	-21 22.0	1.772	2.677	12.2	21.4	6 30	16 10.53	-19 22.2	2.217	3.111	10.6	20.4
7 10	16 6.04	-21 8.0	1.858	2.681	15.4	21.6	7 10	16 6.24	-19 44.9	2.313	3.119	13.2	20.6
22502	1997 SW		5 31.2 217°69	2°7/31.9 18			32459	2000 SK ₈₇		5 31.2 13°78	2°4/31.3 18		
5 1	17 2.34	-27 40.2</											

EPHEMERIDES

5 31.2

5 31.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
394695	2008 <i>CL</i> ₁₉₁		5 31.2 114°63	6°1/28.6	18		370462	2003 <i>BJ</i> ₂₆		5 31.2 66°20	1°5/30.7	18	
5 1	16 53.53	-3 44.6	2.309	3.177	10.8	21.5	5 1	16 57.70	-20 47.9	1.519	2.416	13.7	19.6
5 11	16 47.95	-3 0.2	2.255	3.183	8.5	21.4	5 11	16 51.38	-19 58.7	1.468	2.428	9.6	19.4
5 21	16 41.06	-2 25.3	2.225	3.189	6.7	21.3	5 21	16 42.98	-19 5.2	1.440	2.439	5.0	19.1
5 31	16 33.48	-2 2.9	2.222	3.195	6.2	21.2	5 31	16 33.55	-18 10.7	1.438	2.451	1.5	18.9
6 10	16 25.98	-1 55.1	2.246	3.200	7.4	21.3	6 10	16 24.35	-17 19.4	1.462	2.463	5.3	19.2
6 20	16 19.23	-2 2.4	2.295	3.206	9.5	21.5	6 20	16 16.49	-16 35.7	1.512	2.475	9.7	19.5
6 30	16 13.83	-2 24.0	2.368	3.211	11.8	21.6	6 30	16 10.82	-16 2.8	1.584	2.487	13.5	19.8
7 10	16 10.17	-2 58.0	2.460	3.216	13.9	21.8	7 10	16 7.80	-15 42.2	1.676	2.499	16.8	20.0
479672	2014 <i>DW</i> ₇₉		5 31.2 99°28	3°1/1.3	17		220538	2004 <i>FE</i> ₅₅		5 31.2 324°68	2°1/30.8	17	
5 1	16 58.10	-30 33.6	2.183	3.052	11.3	21.7	5 1	16 55.12	-18 7.7	1.231	2.142	15.3	20.0
5 11	16 51.45	-30 58.1	2.120	3.060	8.3	21.5	5 11	16 50.39	-17 57.3	1.156	2.121	10.9	19.7
5 21	16 42.98	-31 13.8	2.082	3.068	5.2	21.4	5 21	16 42.87	-17 46.9	1.101	2.101	5.9	19.4
5 31	16 33.53	-31 19.1	2.071	3.076	3.1	21.2	5 31	16 33.55	-17 38.2	1.070	2.082	2.1	19.1
6 10	16 24.09	-31 14.5	2.088	3.084	4.5	21.3	6 10	16 23.89	-17 33.7	1.062	2.064	6.3	19.3
6 20	16 15.63	-31 1.8	2.132	3.092	7.5	21.5	6 20	16 15.38	-17 35.7	1.076	2.046	11.7	19.5
6 30	16 8.93	-30 44.2	2.201	3.099	10.5	21.7	6 30	16 9.34	-17 46.6	1.111	2.030	16.6	19.8
7 10	16 4.51	-30 25.5	2.292	3.107	13.1	21.9	7 10	16 6.60	-18 7.4	1.162	2.015	20.8	20.0
164625	1993 <i>TC</i> ₁₅		5 31.2 257°89	2°3/30.4	18		271319	2003 <i>WV</i> ₉		5 31.2 277°58	4°1/1.5	17	
5 1	16 55.56	-16 46.7	2.011	2.900	11.2	20.3	5 1	17 0.61	-31 59.9	1.509	2.389	14.9	20.7
5 11	16 49.69	-16 18.8	1.937	2.892	8.0	20.1	5 11	16 54.08	-32 7.7	1.429	2.373	11.1	20.4
5 21	16 42.09	-15 50.8	1.888	2.884	4.4	19.9	5 21	16 44.72	-32 1.2	1.370	2.357	7.1	20.2
5 31	16 33.51	-15 24.8	1.865	2.875	2.3	19.7	5 31	16 33.60	-31 37.7	1.335	2.341	4.2	20.0
6 10	16 24.88	-15 3.0	1.871	2.867	4.9	19.9	6 10	16 22.23	-30 58.3	1.326	2.325	6.0	20.0
6 20	16 17.09	-14 47.6	1.903	2.858	8.5	20.1	6 20	16 12.13	-30 7.2	1.342	2.308	10.3	20.2
6 30	16 10.92	-14 40.3	1.958	2.849	11.9	20.3	6 30	16 4.59	-29 11.3	1.380	2.292	14.5	20.4
7 10	16 6.90	-14 42.0	2.035	2.840	14.8	20.4	7 10	16 0.35	-28 17.5	1.438	2.275	18.3	20.6
314553	2005 <i>YP</i> ₁₃₉		5 31.2 245°65	0°2/31.4	18		255040	2005 <i>TY</i> ₁₀₄		5 31.2 240°06	0°5/31.0	18	
5 1	16 54.71	-23 20.7	2.702	3.581	9.1	21.9	5 1	16 54.55	-21 45.5	2.668	3.548	9.1	21.2
5 11	16 48.84	-23 14.0	2.617	3.567	6.4	21.7	5 11	16 48.70	-21 18.2	2.584	3.536	6.4	21.0
5 21	16 41.57	-23 3.7	2.557	3.554	3.4	21.5	5 21	16 41.50	-20 47.2	2.525	3.523	3.3	20.8
5 31	16 33.50	-22 49.9	2.526	3.540	0.3	21.2	5 31	16 33.53	-20 13.7	2.496	3.510	0.5	20.5
6 10	16 25.34	-22 33.8	2.524	3.525	3.2	21.5	6 10	16 25.52	-19 39.6	2.496	3.496	3.4	20.7
6 20	16 17.81	-22 17.0	2.550	3.511	6.3	21.6	6 20	16 18.16	-19 7.1	2.524	3.482	6.5	20.9
6 30	16 11.54	-22 1.5	2.602	3.496	9.2	21.8	6 30	16 12.06	-18 38.5	2.578	3.468	9.4	21.1
7 10	16 6.99	-21 49.3	2.677	3.481	11.7	22.0	7 10	16 7.68	-18 15.7	2.655	3.453	11.9	21.2
29928	1999 <i>JX</i> ₃₅		5 31.2 149°50	3°5/29.5	18		429182	2009 <i>VC</i> ₁₁₁		5 31.2 164°35	3°2/2.1	17	
5 1	16 54.32	-12 40.7	2.331	3.214	10.2	18.4	5 1	17 0.92	-34 20.6	1.867	2.730	13.2	20.3
5 11	16 48.52	-11 54.5	2.270	3.219	7.3	18.3	5 11	16 53.53	-33 31.1	1.796	2.732	9.8	20.1
5 21	16 41.36	-11 10.9	2.235	3.223	4.6	18.1	5 21	16 44.07	-32 24.2	1.749	2.733	6.2	19.9
5 31	16 33.50	-10 32.7	2.227	3.227	3.6	18.0	5 31	16 33.60	-31 0.9	1.728	2.734	3.4	19.7
6 10	16 25.71	-10 2.4	2.247	3.231	5.4	18.1	6 10	16 23.37	-29 25.3	1.736	2.735	4.8	19.8
6 20	16 18.69	-9 41.8	2.295	3.234	8.1	18.3	6 20	16 14.49	-27 44.2	1.772	2.736	8.4	20.0
6 30	16 13.06	-9 31.9	2.366	3.238	10.9	18.5	6 30	16 7.81	-26 5.0	1.833	2.737	11.9	20.2
7 10	16 9.23	-9 32.8	2.459	3.241	13.2	18.7	7 10	16 3.79	-24 34.2	1.916	2.738	15.0	20.4
382267	2012 <i>TT</i> ₁₃₅		5 31.2 327°73	2°7/30.4	17		213063	1999 <i>RH</i> ₀₄		5 31.2 267°12	1°1/30.9	18	
5 1	16 55.96	-15 30.7	1.794	2.687	12.2	20.7	5 1	16 59.65	-19 44.0	1.653	2.544	13.2	20.7
5 11	16 50.08	-15 13.5	1.728	2.685	8.7	20.5	5 11	16 53.10	-19 34.3	1.566	2.523	9.3	20.4
5 21	16 42.32	-14 58.2	1.687	2.683	4.9	20.3	5 21	16 44.12	-19 22.3	1.503	2.501	5.0	20.1
5 31	16 33.52	-14 46.7	1.672	2.681	2.7	20.1	5 31	16 33.61	-19 8.9	1.466	2.479	1.1	19.8
6 10	16 24.70	-14 40.8	1.683	2.679	5.3	20.3	6 10	16 22.77	-18 55.8	1.456	2.457	5.1	20.0
6 20	16 16.85	-14 42.1	1.720	2.677	9.1	20.5	6 20	16 12.87	-18 45.4	1.471	2.434	9.9	20.2
6 30	16 10.80	-14 51.5	1.781	2.676	12.7	20.7	6 30	16 5.01	-18 40.5	1.510	2.410	14.2	20.4
7 10	16 7.08	-15 9.4	1.862	2.674	15.7	20.9	7 10	15 59.96	-18 43.2	1.568	2.387	17.9	20.6
352640	2008 <i>GE</i> ₁₁₁		5 31.2 76°30	7°6/2.3	17		504887	2010 <i>WL</i>		5 31.2 263°53	3°2/1.8	18 C	
5 1	17 6.60	-43 30.5	2.306	3.118	12.8	20.7	5 1	17 6.43	-33 51.0	2.240	3.087	11.9	24.7
5 11	16 57.70	-44 55.0	2.260	3.142	10.6	20.6	5 11	16 57.58	-33 24.9	2.124	3.051	9.0	24.5
5 21	16 46.37	-46 2.2	2.237	3.166	8.7	20.5	5 21	16 46.37	-32 42.8	2.033	3.014	5.8	24.2
5 31	16 33.62	-46 47.3	2.241	3.190	7.7	20.5	5 31	16 33.67	-31 43.2	1.970	2.974	3.3	24.0
6 10	16 20.79	-47 8.7	2.272	3.213	8.1	20.6	6 10	16 20.66	-30 27.4	1.938	2.934	4.8	24.0
6 20	16 9.20	-47 8.5	2.328	3.237	9.5	20.7	6 20	16 8.55	-29 0.0	1.936	2.892	8.4	24.1
6 30	15 59.90	-46 51.7	2.409	3.260	11.4	20.9	6 30	15 58.41	-27 27.8	1.961	2.848	12.1	24.3
7 10	15 53.53	-46 24.7	2.510	3.283	13.2	21.0	7 10	15 50.94	-25 58.0	2.010	2.803	15.4	24.4
468065	2013 <i>SP</i> ₃₄		5 31.2 285°12	1°1/30.9	17		216384	2008 <i>BR</i> ₄₈		5 31.3 285°66	0°6/31.1	16	
5 1	16 58.08	-20 21.6	1.562	2.458	13.5	21.3	5 1	16 55.31	-20 35.0	2.100	2.988	10.9	21.1
5 11	16 52.06	-20 4.1	1.477	2.436	9.6	21.0	5 11	16 49.52	-20 28.2	2.027	2.982	7.6	20.9
5 21	16 43.59	-19 43.1	1.416	2.415	5.1	20.7	5 21	16 42.02	-20 19.1	1.978	2.976	4.0	20.6
5 31	16 33.56	-19 19.9	1.380	2.393	1.1	20.4	5 31	16 33.56	-20 8.7	1.956	2.970	0.6	20.3
6 10	16 23.23	-18 56.7	1.370	2.371	5.3	20.6	6 10	16 25.04	-19 58.1	1.962	2.963	4.0	20.6
6 20	16 13.89	-18 36.7	1.385	2.349	10.2	20.8	6 20	16 17.34	-19 49.1	1.995	2.957	7.7	20.8
6 30	16 6.68	-18 23.3	1.422	2.327	14.6	21.0	6 30	16 11.23	-19 43.8	2.052	2.951	11.1	21.0
7 10	16 2.33	-18 18.8	1.478	2.305	18.4	21.2	7 10	16 7.23	-19 43.6	2.131	2.945	14.0	21.2
308527	2005 <i>UK</i> ₈₉		5 31.2 208°24	1°0/31.7	18		508095	2015 <i>DX</i> ₁₂₇		5 31.3			

EPHEMERIDES

5 31.3

5 31.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
75327	1999 XV ₅₂		5 31.3 290°25	0°5/31.4	18		74948	1999 TJ ₁₈₁		5 31.3 186°56	0°1/31.2	17	
5 1	16 59.04	-23 19.6	1.468	2.363	14.2	19.8	5 1	17 0.18	-22 36.3	1.889	2.773	12.2	20.5
5 11	16 52.99	-23 20.7	1.382	2.340	10.2	19.5	5 11	16 53.03	-22 22.9	1.820	2.773	8.5	20.3
5 21	16 44.20	-23 16.4	1.318	2.316	5.4	19.2	5 21	16 43.89	-22 4.7	1.775	2.772	4.5	20.1
5 31	16 33.62	-23 6.2	1.278	2.292	0.5	18.7	5 31	16 33.65	-21 42.4	1.757	2.771	0.1	19.7
6 10	16 22.62	-22 51.3	1.265	2.268	5.2	19.0	6 10	16 23.41	-21 17.8	1.767	2.769	4.3	20.0
6 20	16 12.65	-22 34.6	1.276	2.244	10.4	19.2	6 20	16 14.23	-20 53.8	1.804	2.766	8.4	20.3
6 30	16 5.00	-22 20.1	1.309	2.221	15.2	19.5	6 30	16 6.97	-20 33.3	1.866	2.763	12.1	20.5
7 10	16 0.51	-22 11.4	1.360	2.197	19.2	19.7	7 10	16 2.18	-20 19.0	1.949	2.759	15.2	20.7
266272	2007 AN ₁₆		5 31.3 124°21	1°5/30.8	17		211316	2002 SW ₄₁		5 31.3 87°26	19°5/2.2	18	
5 1	16 58.97	-18 46.6	1.889	2.776	12.0	21.5	5 1	17 20.54	-53 56.0	1.090	1.896	24.3	19.7
5 11	16 52.00	-18 27.9	1.835	2.789	8.4	21.3	5 11	17 11.67	-56 58.5	1.048	1.902	22.1	19.6
5 21	16 43.24	-18 8.0	1.805	2.802	4.4	21.1	5 21	16 55.58	-59 24.6	1.023	1.907	20.3	19.5
5 31	16 33.59	-17 48.4	1.802	2.815	1.5	20.9	5 31	16 33.97	-60 55.0	1.015	1.912	19.5	19.4
6 10	16 24.09	-17 30.9	1.828	2.827	4.6	21.2	6 10	16 11.04	-61 19.7	1.024	1.918	19.8	19.5
6 20	16 15.67	-17 17.8	1.880	2.838	8.4	21.4	6 20	15 51.68	-60 44.2	1.050	1.923	21.1	19.6
6 30	16 9.12	-17 10.8	1.956	2.849	11.8	21.6	6 30	15 39.30	-59 25.7	1.091	1.928	22.9	19.7
7 10	16 4.89	-17 11.2	2.053	2.860	14.7	21.9	7 10	15 34.79	-57 45.0	1.145	1.934	24.9	19.9
18014	1999 JC ₁₂₁		5 31.3 256°68	2°1/30.6	18		142097	2002 QG ₆₂		5 31.3 83°18	5°1/1.9	17	
5 1	16 55.36	-15 40.4	2.251	3.136	10.4	18.8	5 1	17 2.36	-34 7.9	1.501	2.374	15.3	19.6
5 11	16 49.45	-15 35.2	2.175	3.128	7.4	18.6	5 11	16 55.02	-34 27.5	1.448	2.386	11.6	19.4
5 21	16 41.96	-15 31.6	2.124	3.119	4.1	18.4	5 21	16 45.04	-34 30.8	1.417	2.399	7.7	19.2
5 31	16 33.57	-15 30.7	2.100	3.110	2.1	18.2	5 31	16 33.68	-34 15.5	1.411	2.411	5.2	19.1
6 10	16 25.09	-15 33.8	2.105	3.101	4.4	18.4	6 10	16 22.51	-33 42.9	1.430	2.423	6.4	19.2
6 20	16 17.33	-15 41.6	2.137	3.092	7.8	18.6	6 20	16 12.96	-32 57.7	1.473	2.435	9.9	19.4
6 30	16 11.01	-15 55.1	2.194	3.082	10.9	18.7	6 30	16 6.09	-32 6.8	1.539	2.447	13.5	19.7
7 10	16 6.64	-16 14.6	2.272	3.073	13.6	18.9	7 10	16 2.45	-31 16.9	1.626	2.459	16.7	19.9
67932	2000 WX ₁₂₅		5 31.3 49°95	1°4/1.0	18		127951	2003 HQ ₁₀		5 31.3 322°16	5°2/28.8	17	
5 1	16 56.19	-28 50.6	2.008	2.887	11.7	18.0	5 1	16 52.67	-9 41.1	1.981	2.870	11.4	19.3
5 11	16 50.02	-28 5.0	1.950	2.898	8.4	17.8	5 11	16 47.68	-8 42.4	1.911	2.859	8.6	19.1
5 21	16 42.19	-27 9.0	1.916	2.910	4.6	17.6	5 21	16 41.08	-7 48.4	1.866	2.848	6.0	18.9
5 31	16 33.57	-26 4.5	1.910	2.922	1.4	17.4	5 31	16 33.58	-7 3.2	1.846	2.838	5.3	18.8
6 10	16 25.17	-24 55.1	1.931	2.934	3.9	17.6	6 10	16 26.05	-6 30.3	1.853	2.828	7.1	18.9
6 20	16 17.88	-23 45.5	1.980	2.946	7.5	17.9	6 20	16 19.31	-6 12.0	1.885	2.819	10.0	19.1
6 30	16 12.40	-22 40.3	2.054	2.959	10.8	18.1	6 30	16 14.08	-6 8.9	1.940	2.809	13.0	19.2
7 10	16 9.14	-21 43.3	2.150	2.971	13.6	18.3	7 10	16 10.86	-6 20.4	2.014	2.801	15.6	19.4
425616	2010 VF ₄₈		5 31.3 249°27	0°5/31.4	17		374349	2005 UN ₁₄₈		5 31.3 261°33	0°4/31.4	17	
5 1	17 0.31	-23 24.7	1.763	2.649	12.8	22.0	5 1	16 58.60	-23 48.4	1.801	2.688	12.5	21.8
5 11	16 53.45	-23 28.0	1.680	2.633	9.1	21.7	5 11	16 52.19	-23 38.7	1.718	2.673	8.9	21.5
5 21	16 44.27	-23 26.5	1.620	2.617	4.8	21.4	5 21	16 43.59	-23 23.0	1.660	2.657	4.7	21.2
5 31	16 33.64	-23 19.6	1.587	2.601	0.6	21.1	5 31	16 33.67	-23 1.7	1.627	2.641	0.4	20.9
6 10	16 22.77	-23 8.3	1.582	2.584	4.6	21.4	6 10	16 23.57	-22 36.5	1.622	2.625	4.4	21.1
6 20	16 12.86	-22 55.0	1.603	2.567	9.1	21.6	6 20	16 14.42	-22 10.1	1.643	2.608	8.8	21.4
6 30	16 4.98	-22 42.8	1.647	2.549	13.2	21.8	6 30	16 7.23	-21 46.3	1.688	2.592	12.8	21.6
7 10	15 59.83	-22 34.9	1.712	2.531	16.7	22.0	7 10	16 2.63	-21 28.2	1.754	2.574	16.2	21.7
199667	2006 GF ₅₀		5 31.3 0°07	1°2/31.8	17		469827	2005 SU ₂₁₉		5 31.3 177°14	5°0/2.7	18	
5 1	16 54.96	-27 47.2	1.399	2.298	14.6	19.0	5 1	16 59.31	-41 5.0	3.066	3.885	9.8	22.2
5 11	16 49.84	-27 1.3	1.337	2.296	10.4	18.7	5 11	16 52.12	-41 33.2	2.992	3.886	7.9	22.1
5 21	16 42.35	-26 2.3	1.297	2.294	5.7	18.4	5 21	16 43.33	-41 49.0	2.943	3.888	6.1	22.0
5 31	16 33.59	-24 52.3	1.281	2.294	1.3	18.1	5 31	16 33.66	-41 50.6	2.920	3.889	5.1	21.9
6 10	16 24.95	-23 36.5	1.290	2.294	4.9	18.4	6 10	16 23.96	-41 37.8	2.926	3.889	5.4	21.9
6 20	16 17.68	-22 21.5	1.323	2.296	9.7	18.6	6 20	16 15.04	-41 12.5	2.959	3.889	6.9	22.0
6 30	16 12.76	-21 13.7	1.379	2.298	14.0	18.9	6 30	16 7.61	-40 37.8	3.018	3.889	8.8	22.1
7 10	16 10.72	-20 17.8	1.454	2.301	17.7	19.1	7 10	16 2.17	-39 57.8	3.100	3.888	10.6	22.3
224462	2005 VT ₄₁		5 31.3 217°70	4°3/29.8	18		6492	1991 OH ₁		5 31.3 266°81	1°0/30.9	18	
5 1	16 57.33	-10 35.7	2.016	2.898	11.6	20.8	5 1	16 55.88	-19 29.8	2.059	2.947	11.1	17.5
5 11	16 50.91	-10 7.1	1.945	2.891	8.5	20.6	5 11	16 49.96	-19 20.9	1.984	2.940	7.8	17.3
5 21	16 42.75	-9 43.6	1.898	2.884	5.6	20.4	5 21	16 42.30	-19 10.4	1.934	2.932	4.1	17.0
5 31	16 33.61	-9 27.8	1.878	2.876	4.4	20.3	5 31	16 33.63	-18 59.4	1.911	2.924	1.0	16.8
6 10	16 24.41	-9 21.7	1.885	2.868	6.3	20.4	6 10	16 24.90	-18 49.4	1.916	2.916	4.2	17.0
6 20	16 16.04	-9 26.7	1.919	2.859	9.4	20.6	6 20	16 16.99	-18 41.9	1.947	2.908	8.0	17.2
6 30	16 9.30	-9 43.0	1.977	2.850	12.6	20.8	6 30	16 10.69	-18 39.0	2.003	2.900	11.4	17.4
7 10	16 4.69	-10 10.0	2.055	2.841	15.3	21.0	7 10	16 6.54	-18 41.8	2.080	2.892	14.3	17.6
501848	2014 WR ₁₈₇		5 31.3 177°17	2°4/30.7	17		12525	1998 HT ₁₄₇		5 31.3 331°66	10°0/26.6	18	
5 1	16 59.83	-16 14.6	1.644	2.535	13.2	22.1	5 1	16 52.40	-3 2.3	1.396	2.287	15.1	17.9
5 11	16 52.94	-16 4.7	1.581	2.537	9.4	21.8	5 11	16 48.00	-1 21.5	1.333	2.271	12.3	17.6
5 21	16 43.89	-15 56.3	1.541	2.537	5.2	21.6	5 21	16 41.45	+0 7.5	1.292	2.256	10.4	17.5
5 31	16 33.65	-15 50.9	1.528	2.538	2.4	21.4	5 31	16 33.62	+1 16.0	1.274	2.241	10.3	17.4
6 10	16 23.39	-15 50.1	1.541	2.538	5.5	21.6	6 10	16 25.69	+1 57.6	1.278	2.228	12.2	17.5
6 20	16 14.27	-15 55.2	1.580	2.538	9.7	21.8	6 20	16 18.79	+2 9.4	1.303	2.215	15.1	17.6
6 30	16 7.22	-16 7.6	1.642	2.538	13.5	22.1	6 30	16 13.90	+1 52.1	1.346	2.203	18.3	17.8
7 10	16 2.81	-16 27.8	1.724	2.537	16.8	22.3	7 10	16 11.62	+1 9.8	1.406	2.193	21.1	18.0
211403	2002 VV ₅₂		5 31.3 174°96	0°4/31.1	18		229587	2006 BA ₁₄₇		5 31.3 182°22	1°0/30.9	18	
5 1	16 56.33	-20 48.9											

EPHEMERIDES

5 31.3

5 31.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
7995	Khorostovsky		5 31.3 322°63	5°3/29.0 18			506005	2015 HQ ₁₂		5 31.3 92°37	0°1/31.3 17		
5 1	16 53.08	-12 58.1	1.473	2.377	13.7	16.9	5 1	16 57.06	-22 35.3	1.882	2.770	11.9	21.4
5 11	16 48.58	-11 50.0	1.391	2.350	10.1	16.6	5 11	16 50.89	-22 30.0	1.816	2.771	8.4	21.2
5 21	16 41.82	-10 42.6	1.332	2.323	6.6	16.4	5 21	16 42.82	-22 20.7	1.775	2.773	4.4	20.9
5 31	16 33.65	-9 41.3	1.296	2.297	5.4	16.2	5 31	16 33.71	-22 7.7	1.760	2.774	0.1	20.6
6 10	16 25.22	-8 52.1	1.285	2.272	8.1	16.3	6 10	16 24.61	-21 52.6	1.772	2.775	4.1	20.9
6 20	16 17.71	-8 19.3	1.298	2.247	12.2	16.5	6 20	16 16.50	-21 37.7	1.811	2.776	8.2	21.2
6 30	16 12.18	-8 5.5	1.331	2.224	16.2	16.6	6 30	16 10.24	-21 25.6	1.874	2.777	11.7	21.4
7 10	16 9.35	-8 10.7	1.382	2.201	19.9	16.8	7 10	16 6.33	-21 18.5	1.958	2.779	14.8	21.6
323748	2005 NC ₂₇		5 31.3 24°16	3°6/30.3 17			261883	2006 HD ₇		5 31.3 122°74	5°6/28.5 18		
5 1	16 57.18	-14 44.2	1.409	2.310	14.4	20.6	5 1	17 3.60	-17 53.9	1.132	2.035	16.9	20.4
5 11	16 51.28	-14 16.6	1.353	2.312	10.3	20.3	5 11	16 55.88	-15 20.0	1.083	2.044	12.0	20.2
5 21	16 43.10	-13 52.0	1.319	2.315	6.0	20.1	5 21	16 45.46	-12 39.5	1.058	2.052	7.3	19.9
5 31	16 33.68	-13 33.4	1.310	2.318	3.6	20.0	5 31	16 33.78	-10 4.7	1.058	2.060	5.8	19.9
6 10	16 24.31	-13 23.5	1.326	2.321	6.5	20.1	6 10	16 22.54	-7 48.6	1.083	2.068	9.4	20.1
6 20	16 16.21	-13 24.3	1.366	2.325	10.8	20.4	6 20	16 13.17	-6 0.9	1.133	2.076	14.2	20.4
6 30	16 10.33	-13 36.5	1.427	2.328	14.8	20.6	6 30	16 6.69	-4 45.7	1.202	2.082	18.5	20.6
7 10	16 7.25	-13 59.8	1.507	2.332	18.2	20.9	7 10	16 3.53	-4 1.9	1.288	2.089	22.0	20.9
428269	2007 DW ₄₇		5 31.3 110°84	15°2/24.6 17			165319	2000 UJ ₇₂		5 31.3 300°51	0°0/31.2 18		
5 1	16 57.05	+20 28.1	1.939	2.699	16.6	21.2	5 1	16 58.13	-23 45.0	1.293	2.195	15.3	19.1
5 11	16 50.59	+21 59.6	1.916	2.712	15.7	21.1	5 11	16 52.65	-23 18.0	1.206	2.168	11.0	18.8
5 21	16 42.52	+23 1.2	1.913	2.725	15.2	21.1	5 21	16 44.19	-22 41.5	1.141	2.140	5.8	18.4
5 31	16 33.67	+23 27.8	1.928	2.737	15.3	21.2	5 31	16 33.76	-21 56.5	1.099	2.113	0.2	17.9
6 10	16 25.01	+23 17.9	1.963	2.750	15.9	21.2	6 10	16 22.86	-21 6.3	1.082	2.086	5.7	18.2
6 20	16 17.43	+22 33.8	2.015	2.762	16.8	21.3	6 20	16 13.11	-20 16.6	1.088	2.059	11.5	18.5
6 30	16 11.60	+21 20.2	2.083	2.773	17.9	21.4	6 30	16 5.91	-19 33.5	1.115	2.033	16.7	18.7
7 10	16 7.94	+19 43.9	2.165	2.784	18.9	21.6	7 10	16 2.15	-19 1.8	1.160	2.006	21.3	18.9
290485	2005 TU ₁₉₆		5 31.3 218°57	4°9/29.0 18			442014	2010 OC ₇₀		5 31.3 308°04	4°1/29.4 15		
5 1	16 53.46	-5 55.6	2.669	3.538	9.5	21.2	5 1	16 53.35	-12 49.8	1.990	2.882	11.3	21.2
5 11	16 47.90	-5 23.0	2.599	3.532	7.3	21.0	5 11	16 48.28	-11 57.6	1.906	2.859	8.2	21.0
5 21	16 41.11	-4 57.2	2.554	3.525	5.5	20.9	5 21	16 41.50	-11 7.0	1.846	2.836	5.3	20.7
5 31	16 33.64	-4 40.5	2.537	3.518	4.9	20.9	5 31	16 33.68	-10 21.7	1.813	2.814	4.1	20.6
6 10	16 26.15	-4 34.8	2.548	3.511	6.1	20.9	6 10	16 25.73	-9 45.0	1.807	2.792	6.3	20.7
6 20	16 19.26	-4 40.6	2.585	3.504	8.3	21.1	6 20	16 18.50	-9 19.8	1.826	2.770	9.6	20.8
6 30	16 13.54	-4 57.9	2.647	3.496	10.5	21.2	6 30	16 12.79	-9 8.0	1.868	2.748	12.9	21.0
7 10	16 9.37	-5 25.7	2.729	3.488	12.6	21.3	7 10	16 9.16	-9 9.6	1.930	2.726	15.8	21.2
74888	1999 TG ₁₁₅		5 31.3 143°07	1°3/31.8 18			333931	1999 UM ₂₃		5 31.3 235°03	4°6/28.5 18		
5 1	17 1.28	-26 41.7	1.844	2.722	12.6	20.1	5 1	16 56.32	-8 59.7	2.597	3.468	9.7	20.9
5 11	16 53.79	-26 29.6	1.784	2.733	9.0	19.8	5 11	16 49.97	-7 53.3	2.513	3.451	7.3	20.7
5 21	16 44.28	-26 9.1	1.748	2.743	4.9	19.6	5 21	16 42.24	-6 49.9	2.456	3.432	5.3	20.6
5 31	16 33.73	-25 40.2	1.739	2.752	1.4	19.4	5 31	16 33.71	-5 53.0	2.427	3.413	4.7	20.5
6 10	16 23.33	-25 5.3	1.759	2.761	4.3	19.6	6 10	16 25.11	-5 5.9	2.427	3.393	6.3	20.6
6 20	16 14.15	-24 27.9	1.805	2.769	8.3	19.9	6 20	16 17.12	-4 31.0	2.455	3.372	8.7	20.7
6 30	16 7.05	-23 52.0	1.875	2.776	11.9	20.1	6 30	16 10.37	-4 9.6	2.508	3.350	11.3	20.8
7 10	16 2.53	-23 21.5	1.967	2.783	14.9	20.3	7 10	16 5.31	-4 1.6	2.581	3.328	13.5	21.0
504760	2009 WA ₈₉		5 31.3 282°03	1°5/30.7 17			395225	2010 LV ₉₈		5 31.3 292°21	7°0/27.1 18		
5 1	16 57.29	-20 16.7	1.684	2.578	12.8	21.1	5 1	16 53.15	-4 0.3	2.157	3.030	11.3	20.9
5 11	16 51.35	-19 40.6	1.601	2.559	9.1	20.9	5 11	16 47.98	-2 38.9	2.082	3.012	9.1	20.7
5 21	16 43.21	-18 59.8	1.541	2.539	4.8	20.6	5 21	16 41.27	-1 24.8	2.032	2.993	7.4	20.6
5 31	16 33.71	-18 16.6	1.507	2.519	1.5	20.3	5 31	16 33.69	-0 23.3	2.007	2.974	7.2	20.5
6 10	16 24.02	-17 34.3	1.499	2.499	5.2	20.5	6 10	16 26.01	+0 21.7	2.009	2.955	8.7	20.6
6 20	16 15.29	-16 56.8	1.517	2.479	9.7	20.7	6 20	16 19.02	+0 47.6	2.036	2.936	11.1	20.7
6 30	16 8.52	-16 27.7	1.559	2.459	13.8	20.9	6 30	16 13.40	+0 54.1	2.084	2.918	13.6	20.8
7 10	16 4.38	-16 9.5	1.619	2.439	17.4	21.1	7 10	16 9.66	+0 42.4	2.152	2.899	15.9	20.9
67726	2000 UP ₁₇		5 31.3 161°33	3°5/30.3 17			436282	2010 CR ₁₈₄		5 31.3 156°85	0°4/31.1 17		
5 1	16 59.58	-14 26.5	1.622	2.513	13.4	20.1	5 1	16 57.79	-21 28.7	2.502	3.379	9.8	22.6
5 11	16 52.74	-13 58.9	1.562	2.516	9.6	19.9	5 11	16 50.95	-21 11.2	2.437	3.388	6.8	22.4
5 21	16 43.80	-13 33.9	1.526	2.520	5.6	19.7	5 21	16 42.70	-20 50.5	2.399	3.396	3.5	22.2
5 31	16 33.73	-13 14.2	1.516	2.523	3.5	19.5	5 31	16 33.73	-20 27.7	2.390	3.403	0.4	21.9
6 10	16 23.71	-13 2.2	1.532	2.526	6.1	19.7	6 10	16 24.84	-20 4.4	2.410	3.410	3.5	22.2
6 20	16 14.85	-12 59.7	1.574	2.528	10.1	20.0	6 20	16 16.76	-19 42.4	2.458	3.416	6.7	22.4
6 30	16 8.06	-13 7.9	1.639	2.530	13.9	20.2	6 30	16 10.13	-19 23.9	2.533	3.422	9.6	22.6
7 10	16 3.88	-13 26.4	1.724	2.531	17.0	20.4	7 10	16 5.37	-19 10.6	2.630	3.427	12.1	22.8
340234	2006 BH ₈₁		5 31.3 12°25	5°1/ 1.7 17			132141	2002 CJ ₂₇₂		5 31.3 202°73	2°8/31.9 17		
5 1	16 59.22	-33 31.8	1.593	2.469	14.4	20.3	5 1	17 2.62	-27 25.1	1.549	2.432	14.3	20.1
5 11	16 52.91	-34 6.3	1.531	2.470	11.0	20.1	5 11	16 55.33	-27 57.4	1.481	2.431	10.4	19.8
5 21	16 44.06	-34 27.1	1.490	2.472	7.4	19.9	5 21	16 45.37	-28 21.7	1.436	2.428	6.1	19.6
5 31	16 33.73	-34 31.2	1.474	2.474	5.1	19.7	5 31	16 33.81	-28 35.4	1.416	2.426	2.8	19.4
6 10	16 23.37	-34 18.6	1.484	2.476	6.4	19.8	6 10	16 22.11	-28 38.0	1.423	2.423	5.3	19.5
6 20	16 14.32	-33 52.4	1.518	2.479	9.7	20.0	6 20	16 11.68	-28 31.8	1.455	2.420	9.7	19.8
6 30	16 7.72	-33 18.2	1.574	2.482	13.3	20.2	6 30	16 3.72	-28 20.8	1.510	2.417	13.8	20.0
7 10	16 4.17	-32 41.9	1.651	2.486	16.4	20.4	7 10	15 58.90	-28 10.0	1.585	2.413	17.3	20.2
465270	2007 TQ ₇₄		5 31.3 246°77	1°3/30.8 17			372	Palma		5 31.3 162°52	7°5/ 4.9 18		
5 1	16 59.86	-20 31.2	1.630	2.521	13.3	21.9	5 1	17 4.22	-52 14.9	3.175	3.925	10.9	

EPHEMERIDES

5 31.3

5 31.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
192753	1999 <i>TD</i> ₂₅₉		5 31.3 304°49	8°0/27.2	18		87427	2000 <i>QE</i> ₁₀₂		5 31.3 246°84	5°3/29.3	18	
5 1	16 54.30	- 5 47.2	1.635	2.523	13.5	19.3	5 1	16 57.03	- 7 47.4	2.086	2.962	11.5	19.9
5 11	16 49.16	- 4 14.5	1.564	2.504	10.7	19.0	5 11	16 50.78	- 7 11.5	2.006	2.946	8.7	19.7
5 21	16 42.03	- 2 49.0	1.515	2.486	8.5	18.9	5 21	16 42.80	- 6 42.3	1.951	2.929	6.2	19.5
5 31	16 33.72	- 1 37.8	1.491	2.467	8.2	18.8	5 31	16 33.79	- 6 22.8	1.922	2.912	5.4	19.4
6 10	16 25.29	- 0 46.7	1.492	2.449	10.1	18.9	6 10	16 24.64	- 6 15.7	1.921	2.894	7.0	19.4
6 20	16 17.75	- 0 19.1	1.516	2.432	13.2	19.0	6 20	16 16.23	- 6 22.1	1.946	2.875	9.9	19.6
6 30	16 12.01	- 0 15.7	1.560	2.414	16.3	19.2	6 30	16 9.33	- 6 42.2	1.994	2.857	12.9	19.7
7 10	16 8.69	- 0 34.4	1.621	2.397	19.2	19.3	7 10	16 4.50	- 7 14.7	2.063	2.837	15.6	19.9
425642	2010 <i>VJ</i> ₁₇₅		5 31.3 284°99	1°7/30.8	17		142366	2002 <i>RD</i> ₂₃₀		5 31.3 217°54	3°0/30.4	17	
5 1	16 58.74	-19 19.8	1.495	2.392	13.9	21.8	5 1	16 59.03	-14 26.6	1.899	2.784	12.0	20.3
5 11	16 52.71	-18 54.9	1.408	2.368	9.9	21.5	5 11	16 52.29	-14 11.0	1.825	2.777	8.6	20.1
5 21	16 44.09	-18 26.8	1.344	2.343	5.3	21.1	5 21	16 43.61	-13 57.9	1.776	2.769	5.0	19.9
5 31	16 33.80	-17 57.2	1.305	2.318	1.7	20.8	5 31	16 33.82	-13 49.0	1.754	2.761	3.0	19.7
6 10	16 23.12	-17 29.2	1.292	2.292	5.7	21.0	6 10	16 23.93	-13 46.2	1.759	2.753	5.5	19.9
6 20	16 13.43	-17 6.1	1.303	2.267	10.8	21.2	6 20	16 14.94	-13 50.6	1.791	2.743	9.2	20.1
6 30	16 5.94	-16 51.7	1.336	2.241	15.4	21.4	6 30	16 7.72	-14 3.4	1.847	2.734	12.7	20.3
7 10	16 1.43	-16 48.1	1.388	2.215	19.4	21.6	7 10	16 2.85	-14 24.6	1.924	2.723	15.8	20.5
382960	2004 <i>XM</i> ₂₁		5 31.3 212°69	0°2/31.4	18		109801	2001 <i>RE</i> ₉₄		5 31.3 283°07	3°7/29.7	18	
5 1	16 57.51	-24 6.2	2.034	2.917	11.4	20.9	5 1	16 54.67	-13 4.5	2.052	2.940	11.1	20.0
5 11	16 51.12	-23 39.1	1.961	2.914	8.0	20.6	5 11	16 49.16	-12 23.4	1.972	2.924	8.1	19.8
5 21	16 42.94	-23 5.7	1.912	2.910	4.2	20.4	5 21	16 41.96	-11 44.5	1.917	2.907	5.1	19.6
5 31	16 33.77	-22 27.1	1.891	2.905	0.2	20.1	5 31	16 33.77	-11 10.6	1.889	2.891	3.7	19.4
6 10	16 24.61	-21 45.8	1.898	2.900	4.0	20.4	6 10	16 25.48	-10 44.7	1.887	2.874	5.9	19.5
6 20	16 16.39	-21 5.1	1.932	2.895	7.9	20.6	6 20	16 17.94	-10 29.0	1.912	2.858	9.1	19.7
6 30	16 9.92	-20 28.6	1.991	2.890	11.4	20.8	6 30	16 11.91	-10 24.8	1.961	2.841	12.4	19.9
7 10	16 5.70	-19 58.9	2.072	2.885	14.3	21.0	7 10	16 7.94	-10 32.3	2.030	2.825	15.2	20.0
393374	1999 <i>VV</i> ₈₃		5 31.3 258°58	1°3/31.8	18		167525	2003 <i>YJ</i> ₁₄₈		5 31.3 210°45	0°1/31.3	18	
5 1	16 55.62	-26 26.4	2.434	3.311	10.0	21.6	5 1	16 59.28	-19 55.4	2.115	2.997	11.1	19.8
5 11	16 49.70	-26 28.7	2.353	3.301	7.2	21.4	5 11	16 52.39	-20 28.5	2.042	2.994	7.8	19.6
5 21	16 42.18	-26 25.1	2.297	3.291	4.0	21.2	5 21	16 43.66	-21 1.4	1.995	2.992	4.1	19.4
5 31	16 33.75	-26 15.6	2.269	3.281	1.3	20.9	5 31	16 33.83	-21 33.3	1.976	2.990	0.2	19.0
6 10	16 25.24	-26 0.9	2.269	3.270	3.5	21.1	6 10	16 23.87	-22 3.4	1.985	2.987	3.9	19.3
6 20	16 17.45	-25 42.8	2.297	3.260	6.8	21.3	6 20	16 14.73	-22 31.9	2.022	2.984	7.7	19.6
6 30	16 11.10	-25 23.9	2.350	3.249	9.8	21.5	6 30	16 7.25	-22 59.7	2.085	2.981	11.1	19.8
7 10	16 6.71	-25 6.8	2.426	3.239	12.5	21.6	7 10	16 2.00	-23 28.0	2.170	2.978	13.9	19.9
501853	2014 <i>WS</i> ₂₁₂		5 31.3 280°78	4°8/ 1.2	17		475304	2005 <i>XB</i> ₇₈		5 31.3 236°34	1°8/30.7	18	
5 1	17 2.12	-31 4.7	1.438	2.320	15.3	20.6	5 1	16 55.10	-15 18.1	2.705	3.584	9.1	21.7
5 11	16 55.44	-31 49.7	1.360	2.305	11.5	20.3	5 11	16 49.15	-15 19.3	2.624	3.573	6.4	21.6
5 21	16 45.67	-32 23.9	1.303	2.290	7.5	20.0	5 21	16 41.85	-15 22.4	2.569	3.563	3.6	21.4
5 31	16 33.85	-32 42.8	1.271	2.275	4.8	19.8	5 31	16 33.78	-15 27.9	2.543	3.552	1.8	21.2
6 10	16 21.61	-32 44.6	1.263	2.259	6.7	19.9	6 10	16 25.61	-15 36.7	2.546	3.541	3.8	21.3
6 20	16 10.59	-32 31.3	1.280	2.244	10.9	20.1	6 20	16 18.03	-15 49.3	2.577	3.529	6.7	21.5
6 30	16 2.27	-32 8.6	1.318	2.228	15.2	20.3	6 30	16 11.63	-16 6.2	2.634	3.517	9.5	21.7
7 10	15 57.51	-31 43.1	1.376	2.213	19.0	20.5	7 10	16 6.88	-16 27.9	2.714	3.505	11.9	21.8
384090	2008 <i>VF</i> ₇₆		5 31.3 225°33	0°9/31.0	17		415358	2013 <i>JN</i> ₅₈		5 31.3 344°91	0°7/31.5	17	
5 1	16 57.49	-19 32.0	2.125	3.009	11.0	21.4	5 1	16 57.34	-25 44.9	1.176	2.082	16.2	20.1
5 11	16 51.10	-19 28.4	2.049	3.002	7.7	21.2	5 11	16 51.96	-25 9.3	1.115	2.077	11.5	19.8
5 21	16 42.95	-19 23.4	1.997	2.995	4.0	21.0	5 21	16 43.71	-24 21.8	1.073	2.073	6.2	19.5
5 31	16 33.78	-19 17.8	1.974	2.987	0.9	20.7	5 31	16 33.83	-23 24.2	1.055	2.069	0.8	19.1
6 10	16 24.53	-19 12.5	1.978	2.979	4.1	20.9	6 10	16 23.97	-22 21.5	1.061	2.066	5.6	19.5
6 20	16 16.09	-19 9.2	2.010	2.970	7.8	21.1	6 20	16 15.66	-21 20.4	1.089	2.063	11.1	19.7
6 30	16 9.25	-19 9.5	2.067	2.961	11.2	21.3	6 30	16 10.11	-20 27.5	1.139	2.061	16.0	20.0
7 10	16 4.56	-19 14.8	2.145	2.952	14.1	21.5	7 10	16 7.94	-19 47.4	1.205	2.060	20.1	20.3
422631	4165 <i>P-L</i>		5 31.3 267°82	2°5/30.4	17		276432	2003 <i>BH</i> ₆₇		5 31.3 95°85	6°8/ 2.9	17	
5 1	17 0.07	-18 5.7	1.593	2.485	13.5	21.9	5 1	17 5.69	-40 10.0	1.835	2.675	14.5	21.3
5 11	16 53.51	-17 23.9	1.504	2.460	9.7	21.6	5 11	16 57.12	-40 42.8	1.789	2.698	11.5	21.1
5 21	16 44.46	-16 38.6	1.438	2.435	5.4	21.3	5 21	16 46.11	-40 56.3	1.764	2.722	8.6	21.0
5 31	16 33.83	-15 52.6	1.398	2.408	2.5	21.0	5 31	16 33.90	-40 47.6	1.765	2.744	6.9	20.9
6 10	16 22.85	-15 9.8	1.384	2.381	6.0	21.2	6 10	16 21.98	-40 17.5	1.792	2.766	7.4	21.0
6 20	16 12.82	-14 34.3	1.396	2.354	10.8	21.4	6 20	16 11.67	-39 30.4	1.845	2.788	9.6	21.2
6 30	16 4.89	-14 9.9	1.431	2.326	15.2	21.6	6 30	16 3.96	-38 33.3	1.922	2.809	12.2	21.4
7 10	15 59.81	-13 58.6	1.485	2.297	19.1	21.7	7 10	15 59.32	-37 33.3	2.019	2.830	14.7	21.6
45000	1999 <i>VR</i> ₁₈₆		5 31.3 111°68	2°8/30.2	18		340488	2006 <i>HQ</i> ₈₄		5 31.3 356°15	3°8/29.7	17	
5 1	16 56.14	-15 58.2	1.853	2.744	11.9	19.0	5 1	16 54.96	-14 59.3	1.709	2.606	12.5	20.5
5 11	16 50.18	-15 21.7	1.791	2.746	8.5	18.7	5 11	16 49.47	-13 59.3	1.648	2.605	9.0	20.3
5 21	16 42.44	-14 45.8	1.753	2.749	4.8	18.5	5 21	16 42.13	-12 59.9	1.610	2.604	5.4	20.1
5 31	16 33.77	-14 13.3	1.743	2.751	2.8	18.4	5 31	16 33.79	-12 5.5	1.598	2.603	3.8	20.0
6 10	16 25.14	-13 46.8	1.759	2.753	5.4	18.6	6 10	16 25.51	-11 20.0	1.613	2.603	6.3	20.1
6 20	16 17.50	-13 28.7	1.801	2.755	9.0	18.8	6 20	16 18.25	-10 46.8	1.652	2.603	10.0	20.3
6 30	16 11.61	-13 20.7	1.866	2.757	12.4	19.0	6 30	16 12.82	-10 27.8	1.715	2.603	13.4	20.5
7 10	16 7.97	-13 23.1	1.952	2.759	15.3	19.2	7 10	16 9.72	-10 23.0	1.796	2.603	16.4	20.7
342629	2008 <i>UD</i> ₃₄₆		5 31.3 259°81	3°5/30.2	18		330373	2006					

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5 31.3

5 31.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
425941	2011 GS ₇₀		5 31.3 46°46'	2°5/31.1	17		478304	2011 WQ ₅₅		5 31.3 214°30'	0°5/31.1	16	
5 1	17 1.02	-13 52.3	1.378	2.274	15.0	20.0	5 1	16 55.44	-20 40.3	2.478	3.360	9.7	22.1
5 11	16 53.91	-14 32.5	1.337	2.294	10.6	19.8	5 11	16 49.47	-20 34.3	2.403	3.356	6.8	21.9
5 21	16 44.48	-15 18.9	1.319	2.316	5.8	19.6	5 21	16 42.06	-20 26.2	2.354	3.351	3.5	21.7
5 31	16 33.86	-16 10.2	1.326	2.337	2.5	19.4	5 31	16 33.83	-20 16.6	2.333	3.347	0.5	21.5
6 10	16 23.46	-17 4.8	1.360	2.360	5.6	19.7	6 10	16 25.56	-20 6.8	2.341	3.342	3.5	21.7
6 20	16 14.52	-18 1.1	1.418	2.382	10.0	20.0	6 20	16 17.99	-19 58.1	2.376	3.336	6.8	21.9
6 30	16 7.98	-18 58.5	1.499	2.405	14.0	20.3	6 30	16 11.79	-19 52.2	2.437	3.331	9.8	22.1
7 10	16 4.36	-19 56.4	1.600	2.428	17.2	20.6	7 10	16 7.41	-19 50.5	2.521	3.325	12.3	22.3
206639	2003 WJ ₁₉₀		5 31.3 244°08'	9°0/28.4	17		146837	2002 AN ₄₁		5 31.3 153°93'	2°9/1.9	18	
5 1	16 57.43	+ 6 17.6	2.309	3.135	12.3	20.6	5 1	16 57.27	-33 20.8	2.757	3.611	9.7	20.6
5 11	16 50.89	+ 6 44.6	2.237	3.121	10.6	20.5	5 11	16 50.66	-33 16.6	2.688	3.618	7.3	20.5
5 21	16 42.81	+ 6 54.9	2.187	3.106	9.3	20.4	5 21	16 42.62	-33 2.6	2.645	3.624	4.7	20.3
5 31	16 33.82	+ 6 44.9	2.163	3.091	9.1	20.3	5 31	16 33.85	-32 38.3	2.629	3.630	3.0	20.2
6 10	16 24.75	+ 6 13.0	2.164	3.076	9.9	20.4	6 10	16 25.15	-32 5.0	2.642	3.636	3.9	20.3
6 20	16 16.37	+ 5 20.1	2.190	3.060	11.7	20.4	6 20	16 17.29	-31 25.0	2.684	3.641	6.3	20.4
6 30	16 9.38	+ 4 8.4	2.239	3.044	13.7	20.6	6 30	16 10.87	-30 41.8	2.752	3.646	8.8	20.6
7 10	16 4.28	+ 2 42.1	2.308	3.027	15.6	20.7	7 10	16 6.33	-29 58.9	2.843	3.650	11.0	20.8
282760	2006 HB ₃₇		5 31.3 74°62'	2°5/30.3	17		111686	2002 BQ ₃₀		5 31.3 347°22'	7°2/2.1	18	
5 1	16 57.44	-17 23.0	1.736	2.629	12.6	20.3	5 1	17 1.66	-41 1.6	2.149	2.982	12.9	19.4
5 11	16 51.01	-16 37.1	1.692	2.648	8.8	20.2	5 11	16 54.52	-42 9.0	2.080	2.981	10.5	19.2
5 21	16 42.82	-15 51.2	1.671	2.667	4.8	20.0	5 21	16 44.97	-43 1.6	2.034	2.980	8.4	19.1
5 31	16 33.82	-15 8.1	1.677	2.687	2.6	19.8	5 31	16 33.92	-43 34.7	2.013	2.978	7.2	19.0
6 10	16 25.07	-14 31.2	1.710	2.706	5.3	20.1	6 10	16 22.63	-43 46.6	2.018	2.978	7.7	19.0
6 20	16 17.50	-14 3.1	1.769	2.725	9.0	20.3	6 20	16 12.38	-43 39.0	2.048	2.977	9.6	19.2
6 30	16 11.85	-13 45.8	1.852	2.744	12.4	20.6	6 30	16 4.25	-43 16.1	2.102	2.976	11.9	19.3
7 10	16 8.52	-13 39.7	1.955	2.763	15.2	20.8	7 10	15 58.96	-42 44.1	2.177	2.976	14.2	19.5
276886	2004 RP ₃₀₇		5 31.3 233°90'	3°9/29.6	18		176439	2001 WX ₃₁		5 31.3 214°37'	0°3/31.4	17	
5 1	16 56.62	-12 37.0	2.048	2.933	11.3	21.3	5 1	16 57.61	-21 44.1	2.235	3.116	10.6	20.4
5 11	16 50.48	-11 51.9	1.973	2.923	8.2	21.1	5 11	16 51.17	-22 7.8	2.163	3.114	7.5	20.2
5 21	16 42.64	-11 9.3	1.923	2.912	5.2	20.9	5 21	16 43.01	-22 29.6	2.116	3.113	3.9	20.0
5 31	16 33.83	-10 32.1	1.900	2.901	4.0	20.8	5 31	16 33.87	-22 48.9	2.097	3.111	0.3	19.6
6 10	16 24.96	-10 3.5	1.905	2.890	6.0	20.9	6 10	16 24.63	-23 5.6	2.106	3.108	3.6	19.9
6 20	16 16.90	-9 45.7	1.936	2.878	9.3	21.0	6 20	16 16.18	-23 20.4	2.144	3.106	7.2	20.1
6 30	16 10.41	-9 39.9	1.991	2.866	12.4	21.2	6 30	16 9.28	-23 34.7	2.206	3.104	10.5	20.3
7 10	16 6.03	-9 46.1	2.066	2.853	15.2	21.4	7 10	16 4.47	-23 50.0	2.291	3.101	13.2	20.5
368383	2002 RJ ₂₀₉		5 31.3 203°79'	2°0/31.9	17		298711	2004 FU ₁₃		5 31.3 33°95'	5°8/29.0	18	
5 1	17 0.91	-27 35.9	1.932	2.807	12.3	21.8	5 1	16 54.24	- 6 53.2	1.985	2.866	11.8	20.1
5 11	16 53.72	-27 40.8	1.857	2.804	8.9	21.6	5 11	16 48.75	- 6 7.2	1.928	2.868	9.0	19.9
5 21	16 44.41	-27 37.4	1.807	2.799	5.1	21.3	5 21	16 41.70	- 5 29.3	1.895	2.870	6.6	19.8
5 31	16 33.89	-27 24.8	1.783	2.794	2.0	21.1	5 31	16 33.83	- 5 3.1	1.887	2.873	5.9	19.7
6 10	16 23.29	-27 4.2	1.787	2.788	4.4	21.3	6 10	16 26.00	- 4 51.0	1.906	2.875	7.4	19.8
6 20	16 13.73	-26 38.1	1.819	2.782	8.2	21.5	6 20	16 19.04	- 4 54.2	1.950	2.878	10.1	20.0
6 30	16 6.14	-26 10.4	1.875	2.775	11.9	21.7	6 30	16 13.61	- 5 12.1	2.017	2.881	12.8	20.2
7 10	16 1.12	-25 45.3	1.952	2.768	15.0	21.9	7 10	16 10.19	- 5 43.0	2.104	2.883	15.2	20.4
361089	2006 BN ₂₄₆		5 31.3 60°93'	2°0/30.8	17		355632	2008 ES ₈		5 31.3 228°92'	4°7/1.6	18	
5 1	16 59.80	-18 21.0	1.254	2.158	15.6	20.8	5 1	16 59.91	-35 8.5	2.362	3.213	11.2	20.5
5 11	16 53.37	-18 6.3	1.202	2.164	11.0	20.6	5 11	16 52.96	-35 54.8	2.286	3.209	8.7	20.3
5 21	16 44.33	-17 51.2	1.172	2.171	5.8	20.3	5 21	16 44.04	-36 30.8	2.234	3.204	6.2	20.2
5 31	16 33.88	-17 37.4	1.165	2.177	2.0	20.1	5 31	16 33.91	-36 53.4	2.210	3.200	4.7	20.1
6 10	16 23.54	-17 27.4	1.183	2.184	6.0	20.3	6 10	16 23.60	-37 1.8	2.213	3.195	5.5	20.1
6 20	16 14.70	-17 23.5	1.225	2.191	11.0	20.6	6 20	16 14.13	-36 57.3	2.243	3.190	7.9	20.2
6 30	16 8.45	-17 28.0	1.288	2.198	15.4	20.9	6 30	16 6.40	-36 43.1	2.298	3.185	10.5	20.4
7 10	16 5.37	-17 41.6	1.368	2.206	19.1	21.2	7 10	16 1.01	-36 23.6	2.374	3.179	13.0	20.6
163085	2002 AC ₆₂		5 31.3 199°32'	1°0/30.9	17		222756	2002 CQ ₃₂		5 31.3 224°77'	1°5/31.8	18	
5 1	17 1.20	-20 17.0	1.851	2.735	12.3	20.7	5 1	17 0.09	-26 21.3	2.310	3.182	10.7	21.2
5 11	16 53.87	-20 0.4	1.778	2.731	8.7	20.4	5 11	16 52.96	-26 31.2	2.224	3.170	7.7	21.0
5 21	16 44.47	-19 40.7	1.730	2.727	4.6	20.2	5 21	16 43.99	-26 35.1	2.164	3.157	4.3	20.8
5 31	16 33.89	-19 19.1	1.709	2.722	1.0	19.9	5 31	16 33.91	-26 32.1	2.131	3.143	1.5	20.5
6 10	16 23.26	-18 57.4	1.716	2.716	4.6	20.1	6 10	16 23.67	-26 22.8	2.128	3.129	3.8	20.7
6 20	16 13.66	-18 38.3	1.749	2.709	8.8	20.4	6 20	16 14.20	-26 8.9	2.153	3.113	7.3	20.9
6 30	16 6.01	-18 24.6	1.808	2.702	12.6	20.6	6 30	16 6.35	-25 53.1	2.203	3.097	10.6	21.0
7 10	16 0.87	-18 18.1	1.887	2.693	15.8	20.8	7 10	16 0.69	-25 38.6	2.276	3.081	13.5	21.2
295023	2008 EC ₇₃		5 31.3 172°61'	2°5/30.1	18		499371	2010 AO ₁₂		5 31.3 176°44'	5°5/29.2	17	
5 1	16 54.26	-13 10.7	2.983	3.859	8.4	21.8	5 1	16 56.72	- 4 40.6	2.456	3.319	10.5	22.0
5 11	16 48.37	-12 47.9	2.916	3.862	6.0	21.6	5 11	16 50.24	- 4 8.7	2.394	3.322	8.1	21.9
5 21	16 41.37	-12 27.3	2.876	3.865	3.7	21.5	5 21	16 42.41	- 3 45.1	2.357	3.324	6.1	21.7
5 31	16 33.80	-12 10.3	2.865	3.868	2.5	21.4	5 31	16 33.87	- 3 32.5	2.347	3.325	5.5	21.7
6 10	16 26.25	-11 58.2	2.882	3.869	4.1	21.5	6 10	16 25.35	- 3 32.4	2.366	3.326	6.8	21.8
6 20	16 19.29	-11 52.2	2.929	3.871	6.5	21.7	6 20	16 17.55	- 3 45.2	2.411	3.326	9.0	21.9
6 30	16 13.43	-11 52.8	3.001	3.872	8.8	21.8	6 30	16 11.09	- 4 10.5	2.481	3.325	11.3	22.1
7 10	16 9.02	-12 0.3	3.096	3.872	10.9	22.0	7 10	16 6.38	- 4 46.6	2.572	3.324	13.4	22.2
255617	2006 PE ₂₁		5 31.3 236°71'	1°1/30.9	17		331955	2004 VB ₅		5 31.3 232°48'	1°4/30.6	18	
5 1	16 59.80	-19 57.4											

EPHEMERIDES

5 31.3

5 31.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
117905	3543 <i>P-L</i>		5 31.3 235°30	1°2/30.7	18		115507	2003 <i>UK₃₅</i>		5 31.3 265°79	5°5/29.2	18	
5 1	16 57.34	-20 48.8	2.120	3.004	11.0	19.8	5 1	16 55.78	-8 1.5	1.958	2.839	11.9	19.9
5 11	16 51.00	-20 2.6	2.040	2.993	7.7	19.6	5 11	16 50.00	-7 19.3	1.883	2.826	9.0	19.7
5 21	16 42.93	-19 11.8	1.985	2.982	4.1	19.3	5 21	16 42.47	-6 43.7	1.833	2.812	6.5	19.6
5 31	16 33.89	-18 18.6	1.958	2.971	1.2	19.1	5 31	16 33.91	-6 18.5	1.808	2.798	5.6	19.5
6 10	16 24.82	-17 26.1	1.960	2.958	4.3	19.3	6 10	16 25.25	-6 6.5	1.810	2.784	7.3	19.5
6 20	16 16.61	-16 37.9	1.989	2.946	8.1	19.5	6 20	16 17.37	-6 9.1	1.837	2.770	10.3	19.7
6 30	16 10.01	-15 57.3	2.043	2.933	11.5	19.7	6 30	16 11.07	-6 26.3	1.888	2.755	13.4	19.9
7 10	16 5.55	-15 26.5	2.118	2.920	14.5	19.9	7 10	16 6.91	-6 57.0	1.958	2.740	16.1	20.0
22878	1999 <i>RA₂₀₂</i>		5 31.3 204°20	0°3/31.5	18		341232	2007 <i>RY₁₅₈</i>		5 31.3 315°08	2°2/31.9	16	
5 1	16 57.88	-24 42.2	2.292	3.169	10.5	20.1	5 1	16 57.93	-27 22.2	1.785	2.669	12.7	21.2
5 11	16 51.26	-24 9.9	2.215	3.165	7.4	19.9	5 11	16 51.82	-27 38.9	1.713	2.663	9.2	21.0
5 21	16 43.02	-23 31.1	2.164	3.160	3.9	19.6	5 21	16 43.52	-27 48.0	1.665	2.658	5.3	20.8
5 31	16 33.89	-22 46.8	2.141	3.154	0.3	19.3	5 31	16 33.94	-27 48.4	1.642	2.653	2.3	20.6
6 10	16 24.79	-21 59.6	2.147	3.148	3.6	19.6	6 10	16 24.25	-27 40.5	1.646	2.648	4.6	20.7
6 20	16 16.56	-21 12.7	2.181	3.142	7.2	19.8	6 20	16 15.60	-27 26.5	1.676	2.643	8.6	20.9
6 30	16 9.90	-20 29.5	2.241	3.135	10.5	20.0	6 30	16 8.95	-27 10.0	1.730	2.638	12.3	21.1
7 10	16 5.30	-19 52.7	2.323	3.128	13.2	20.2	7 10	16 4.93	-26 54.6	1.804	2.633	15.5	21.3
115543	2003 <i>UG₆₄</i>		5 31.3 264°99	4°9/30.1	18		499613	2010 <i>UP₁₅</i>		5 31.3 256°40	1°2/30.9	17	
5 1	16 57.07	-8 18.6	1.958	2.838	12.0	19.3	5 1	16 59.89	-20 0.7	1.700	2.589	13.0	22.2
5 11	16 50.90	-8 8.9	1.884	2.827	9.0	19.1	5 11	16 53.28	-19 44.2	1.616	2.572	9.2	21.9
5 21	16 42.93	-8 7.3	1.834	2.817	6.1	18.9	5 21	16 44.35	-19 24.6	1.556	2.553	4.9	21.6
5 31	16 33.90	-8 16.1	1.811	2.806	4.9	18.8	5 31	16 33.98	-19 3.1	1.522	2.535	1.2	21.3
6 10	16 24.74	-8 36.4	1.814	2.795	6.6	18.9	6 10	16 23.36	-18 41.9	1.515	2.515	5.0	21.5
6 20	16 16.38	-9 8.4	1.844	2.784	9.7	19.1	6 20	16 13.69	-18 23.7	1.534	2.496	9.6	21.7
6 30	16 9.64	-9 51.3	1.897	2.773	12.9	19.3	6 30	16 6.03	-18 11.5	1.576	2.475	13.8	21.9
7 10	16 5.08	-10 43.5	1.971	2.762	15.7	19.4	7 10	16 1.08	-18 7.5	1.638	2.455	17.4	22.1
498226	2007 <i>UM₁₃</i>		5 31.3 242°94	1°1/30.9	17		192850	1999 <i>VH₁₆₆</i>		5 31.3 313°98	1°1/31.7	18	
5 1	17 0.24	-20 33.0	1.673	2.563	13.1	22.4	5 1	16 57.51	-25 33.9	1.812	2.698	12.4	20.2
5 11	16 53.48	-20 10.5	1.594	2.550	9.3	22.2	5 11	16 51.38	-25 26.4	1.744	2.697	8.8	20.0
5 21	16 44.42	-19 44.2	1.538	2.536	4.9	21.9	5 21	16 43.22	-25 11.9	1.699	2.695	4.8	19.7
5 31	16 33.95	-19 15.3	1.508	2.521	1.1	21.6	5 31	16 33.94	-24 50.6	1.681	2.694	1.1	19.4
6 10	16 23.31	-18 46.3	1.505	2.506	5.0	21.8	6 10	16 24.65	-24 24.1	1.689	2.692	4.2	19.7
6 20	16 13.69	-18 20.6	1.528	2.490	9.6	22.0	6 20	16 16.41	-23 55.6	1.724	2.691	8.3	19.9
6 30	16 6.15	-18 1.3	1.575	2.474	13.8	22.2	6 30	16 10.12	-23 28.6	1.783	2.689	12.1	20.1
7 10	16 1.34	-17 50.9	1.641	2.458	17.4	22.4	7 10	16 6.32	-23 6.4	1.862	2.688	15.2	20.3
205688	2001 <i>YV₁₁₀</i>		5 31.3 88°87	7°3/3.0	18		117146	2004 <i>PB₉₁</i>		5 31.3 254°48	1°7/30.7	18	
5 1	17 6.10	-39 19.4	1.422	2.278	16.9	19.9	5 1	16 57.98	-17 54.9	2.153	3.036	10.9	20.1
5 11	16 57.90	-39 43.0	1.374	2.296	13.3	19.7	5 11	16 51.55	-17 33.7	2.063	3.015	7.7	19.8
5 21	16 46.71	-39 44.0	1.347	2.313	9.8	19.5	5 21	16 43.31	-17 11.3	1.997	2.994	4.2	19.6
5 31	16 34.01	-39 18.9	1.343	2.331	7.5	19.4	5 31	16 33.95	-16 49.1	1.960	2.971	1.7	19.3
6 10	16 21.68	-38 29.2	1.364	2.348	8.1	19.5	6 10	16 24.40	-16 29.1	1.951	2.949	4.5	19.5
6 20	16 11.34	-37 21.7	1.410	2.364	10.9	19.7	6 20	16 15.57	-16 13.3	1.970	2.925	8.3	19.7
6 30	16 4.11	-36 5.5	1.477	2.381	14.3	19.9	6 30	16 8.28	-16 4.0	2.013	2.901	11.8	19.8
7 10	16 0.49	-34 49.8	1.565	2.397	17.3	20.2	7 10	16 3.12	-16 2.3	2.078	2.877	14.8	20.0
390145	2012 <i>VN₈₅</i>		5 31.3 172°37	0°5/31.5	17		323100	2002 <i>WR₂₂</i>		5 31.3 149°11	0°3/31.3	17	
5 1	16 58.07	-22 51.7	2.290	3.169	10.5	22.2	5 1	17 0.24	-20 25.1	1.662	2.552	13.2	20.8
5 11	16 51.44	-23 9.9	2.220	3.170	7.4	22.0	5 11	16 53.39	-20 39.9	1.599	2.555	9.3	20.6
5 21	16 43.15	-23 25.1	2.176	3.172	3.9	21.8	5 21	16 44.32	-20 53.2	1.559	2.557	4.8	20.3
5 31	16 33.92	-23 36.8	2.159	3.173	0.6	21.5	5 31	16 33.99	-21 4.7	1.546	2.560	0.4	20.0
6 10	16 24.64	-23 45.1	2.172	3.174	3.6	21.7	6 10	16 23.62	-21 14.8	1.559	2.562	4.6	20.3
6 20	16 16.16	-23 51.1	2.212	3.175	7.1	22.0	6 20	16 14.37	-21 24.6	1.599	2.564	9.0	20.6
6 30	16 9.24	-23 56.6	2.278	3.175	10.2	22.2	6 30	16 7.24	-21 36.0	1.662	2.565	13.0	20.8
7 10	16 4.38	-24 3.3	2.367	3.175	12.9	22.3	7 10	16 2.80	-21 50.9	1.745	2.567	16.3	21.0
138204	2000 <i>EY₁₄₆</i>		5 31.3 82°36	2°9/30.8	18		186090	2001 <i>SS₂₉₃</i>		5 31.3 184°05	2°6/30.1	18	
5 1	17 1.00	-14 19.3	1.548	2.438	13.9	19.4	5 1	16 55.01	-14 33.8	2.484	3.366	9.7	21.2
5 11	16 53.72	-14 24.0	1.504	2.458	9.8	19.2	5 11	16 49.11	-14 3.2	2.416	3.366	6.9	21.1
5 21	16 44.36	-14 33.0	1.483	2.478	5.6	19.0	5 21	16 41.87	-13 34.1	2.374	3.366	4.1	20.9
5 31	16 33.96	-14 46.9	1.489	2.498	2.9	18.9	5 31	16 33.91	-13 8.3	2.359	3.365	2.6	20.8
6 10	16 23.78	-15 6.4	1.521	2.517	5.7	19.1	6 10	16 25.97	-12 47.7	2.374	3.364	4.5	20.9
6 20	16 14.92	-15 31.6	1.578	2.537	9.7	19.3	6 20	16 18.74	-12 34.1	2.416	3.363	7.4	21.1
6 30	16 8.27	-16 2.7	1.659	2.556	13.4	19.6	6 30	16 12.82	-12 28.3	2.483	3.361	10.2	21.3
7 10	16 4.30	-16 39.2	1.760	2.574	16.4	19.9	7 10	16 8.63	-12 30.9	2.572	3.359	12.6	21.4
306745	2000 <i>XY₄₆</i>		5 31.3 202°63	5°5/3.0	18		505356	2013 <i>CK₁₉₃</i>		5 31.3 76°92	5°1/29.4	18	
5 1	17 0.07	-43 10.3	3.108	3.915	9.9	21.1	5 1	16 54.09	-6 37.0	2.273	3.148	10.7	20.9
5 11	16 52.79	-43 37.7	3.027	3.910	8.2	20.9	5 11	16 48.47	-6 6.6	2.222	3.160	8.1	20.8
5 21	16 43.84	-43 51.9	2.970	3.905	6.5	20.8	5 21	16 41.52	-5 44.1	2.196	3.171	5.9	20.7
5 31	16 33.95	-43 50.7	2.940	3.899	5.6	20.7	5 31	16 33.91	-5 32.0	2.197	3.182	5.2	20.7
6 10	16 23.98	-43 34.0	2.937	3.892	5.8	20.8	6 10	16 26.38	-5 31.9	2.224	3.193	6.5	20.8
6 20	16 14.79	-43 3.4	2.962	3.885	7.2	20.8	6 20	16 19.64	-5 44.0	2.278	3.205	8.8	20.9
6 30	16 7.14	-42 22.4	3.013	3.878	8.9	20.9	6 30	16 14.27	-6 7.8	2.355	3.216	11.3	21.1
7 10	16 1.52	-41 35.4	3.086	3.870	10.7	21.1	7 10	16 10.68	-6 41.9	2.453	3.227	13.5	21.3
117900	3053 <i>P-L</i>		5 31.3 311°92	2°1/1.1	17		69975	1998 <i>WU₅</i>		5 31.3 233°36	0°7/30.9	1	

EPHEMERIDES

5 31.3

5 31.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
320308	2007 <i>SK</i> ₁₄		5 31.3 190°72	1°0/31.7	17		178110	2006 <i>SN</i> ₃₂₈		5 31.3 37°38	2°6/30.7	17	
5 1	17 1.66	-25 16.4	1.907	2.785	12.3	21.9	5 1	16 57.81	-17 7.5	1.305	2.209	15.0	20.0
5 11	16 54.23	-25 10.3	1.835	2.784	8.7	21.6	5 11	16 51.92	-16 45.2	1.255	2.217	10.6	19.8
5 21	16 44.72	-24 57.2	1.787	2.782	4.7	21.4	5 21	16 43.61	-16 23.8	1.227	2.225	5.8	19.5
5 31	16 34.03	-24 37.1	1.767	2.780	1.0	21.1	5 31	16 34.03	-16 5.7	1.222	2.233	2.6	19.4
6 10	16 23.32	-24 11.5	1.774	2.777	4.2	21.3	6 10	16 24.58	-15 53.6	1.242	2.242	6.1	19.6
6 20	16 13.68	-23 43.4	1.809	2.772	8.3	21.6	6 20	16 16.53	-15 49.8	1.286	2.251	10.7	19.9
6 30	16 6.02	-23 16.5	1.869	2.768	12.0	21.8	6 30	16 10.89	-15 55.7	1.352	2.261	14.9	20.2
7 10	16 0.91	-22 54.1	1.950	2.762	15.1	22.0	7 10	16 8.19	-16 11.7	1.435	2.271	18.4	20.4
347759	2002 <i>BT</i> ₂₂		5 31.3 163°88	5°6/4.0	18		250896	2005 <i>VL</i> ₇₇		5 31.3 129°11	0°3/31.5	17	
5 1	17 1.83	-46 54.6	3.530	4.309	9.4	22.1	5 1	16 55.13	-24 3.5	2.561	3.439	9.5	20.6
5 11	16 53.81	-47 10.6	3.458	4.317	7.9	22.0	5 11	16 49.22	-23 48.5	2.496	3.446	6.7	20.4
5 21	16 44.29	-47 12.4	3.411	4.324	6.5	21.9	5 21	16 41.95	-23 29.0	2.457	3.453	3.5	20.2
5 31	16 34.02	-46 58.3	3.390	4.330	5.7	21.9	5 31	16 33.99	-23 5.7	2.446	3.460	0.4	19.9
6 10	16 23.83	-46 28.7	3.397	4.335	5.8	21.9	6 10	16 26.08	-22 40.3	2.464	3.466	3.2	20.2
6 20	16 14.51	-45 45.5	3.431	4.340	6.8	22.0	6 20	16 18.94	-22 14.6	2.510	3.473	6.3	20.4
6 30	16 6.73	-44 52.2	3.492	4.344	8.2	22.1	6 30	16 13.17	-21 51.2	2.582	3.479	9.2	20.6
7 10	16 0.91	-43 53.2	3.576	4.347	9.6	22.2	7 10	16 9.16	-21 31.8	2.677	3.484	11.6	20.8
355566	2008 <i>CM</i> ₄₆		5 31.3 34°89	0°7/31.6	18		238226	2003 <i>UP</i> ₁₆₁		5 31.3 166°27	2°6/1.2	18	
5 1	16 55.46	-25 2.3	2.081	2.966	11.1	20.8	5 1	16 59.66	-29 12.9	2.274	3.142	11.0	20.6
5 11	16 49.70	-24 49.2	2.016	2.969	7.9	20.6	5 11	16 52.66	-29 36.0	2.205	3.146	8.0	20.4
5 21	16 42.27	-24 30.1	1.976	2.973	4.2	20.4	5 21	16 43.87	-29 51.5	2.161	3.149	4.8	20.2
5 31	16 33.95	-24 5.8	1.963	2.977	0.8	20.2	5 31	16 34.06	-29 57.9	2.145	3.152	2.6	20.0
6 10	16 25.68	-23 37.9	1.978	2.981	3.7	20.4	6 10	16 24.21	-29 55.4	2.156	3.154	4.2	20.1
6 20	16 18.34	-23 9.3	2.019	2.985	7.4	20.6	6 20	16 15.25	-29 45.7	2.196	3.156	7.3	20.3
6 30	16 12.65	-22 42.8	2.086	2.990	10.7	20.8	6 30	16 7.99	-29 31.8	2.261	3.157	10.3	20.5
7 10	16 9.09	-22 20.9	2.173	2.994	13.5	21.0	7 10	16 2.96	-29 17.0	2.348	3.159	12.9	20.7
508963	2004 <i>TD</i> ₃₁₅		5 31.3 286°46	0°9/31.0	18		140376	2001 <i>TE</i> ₃₇		5 31.3 224°97	3°3/1.3	18 R	
5 1	16 57.23	-21 8.4	1.712	2.605	12.7	21.3	5 1	16 58.94	-31 29.5	2.453	3.314	10.5	19.9
5 11	16 51.38	-20 42.7	1.630	2.587	9.0	21.0	5 11	16 52.20	-32 2.2	2.374	3.308	7.9	19.7
5 21	16 43.35	-20 12.5	1.571	2.569	4.7	20.7	5 21	16 43.66	-32 26.8	2.319	3.301	5.1	19.5
5 31	16 33.99	-19 39.1	1.537	2.551	0.9	20.4	5 31	16 34.05	-32 41.4	2.292	3.294	3.3	19.4
6 10	16 24.45	-19 5.5	1.531	2.533	4.8	20.7	6 10	16 24.29	-32 45.6	2.294	3.287	4.5	19.5
6 20	16 15.84	-18 34.9	1.550	2.514	9.3	20.9	6 20	16 15.29	-32 40.5	2.323	3.279	7.2	19.6
6 30	16 9.17	-18 10.8	1.592	2.496	13.4	21.1	6 30	16 7.87	-32 29.1	2.378	3.271	10.0	19.8
7 10	16 5.09	-17 55.7	1.655	2.478	16.9	21.3	7 10	16 2.58	-32 14.8	2.455	3.263	12.5	20.0
82526	2001 <i>OV</i> ₅₅		5 31.3 257°93	5°9/28.7	18		282432	2003 <i>WK</i> ₈₉		5 31.3 260°19	2°1/30.3	18	
5 1	16 54.30	-6 1.4	2.143	3.019	11.2	19.1	5 1	16 56.32	-18 57.5	1.976	2.865	11.4	20.5
5 11	16 48.80	-5 9.5	2.076	3.012	8.7	19.0	5 11	16 50.38	-17 58.1	1.901	2.856	8.1	20.2
5 21	16 41.79	-4 25.3	2.034	3.005	6.6	18.8	5 21	16 42.69	-16 54.9	1.850	2.847	4.4	20.0
5 31	16 33.95	-3 52.5	2.018	2.998	6.0	18.8	5 31	16 34.03	-15 51.2	1.828	2.838	2.2	19.8
6 10	16 26.08	-3 33.8	2.028	2.991	7.5	18.9	6 10	16 25.36	-14 51.1	1.833	2.829	5.0	20.0
6 20	16 18.97	-3 30.6	2.064	2.984	10.0	19.0	6 20	16 17.60	-13 58.4	1.865	2.819	8.7	20.2
6 30	16 13.28	-3 42.8	2.123	2.977	12.6	19.2	6 30	16 11.50	-13 16.5	1.921	2.810	12.2	20.4
7 10	16 9.49	-4 8.8	2.202	2.970	15.0	19.3	7 10	16 7.59	-12 46.9	1.998	2.800	15.2	20.6
156528	2002 <i>CS</i> ₂₅₈		5 31.3 193°44	6°7/28.9	18		311215	2005 <i>AQ</i> ₁₈		5 31.3 160°19	0°9/31.1	17	
5 1	16 56.62	-4 42.0	1.913	2.787	12.5	20.3	5 1	17 1.22	-19 59.0	1.697	2.585	13.1	21.2
5 11	16 50.52	-3 56.3	1.852	2.786	9.7	20.1	5 11	16 53.99	-19 51.8	1.635	2.590	9.2	20.9
5 21	16 42.71	-3 20.7	1.816	2.785	7.5	20.0	5 21	16 44.63	-19 42.3	1.597	2.595	4.8	20.7
5 31	16 33.98	-2 59.2	1.805	2.783	6.8	19.9	5 31	16 34.09	-19 31.5	1.585	2.599	0.9	20.4
6 10	16 25.26	-2 54.2	1.820	2.782	8.3	20.0	6 10	16 23.59	-19 20.8	1.601	2.602	4.7	20.7
6 20	16 17.43	-3 6.4	1.860	2.780	10.9	20.2	6 20	16 14.26	-19 12.6	1.643	2.605	9.1	21.0
6 30	16 11.25	-3 35.0	1.922	2.778	13.7	20.3	6 30	16 7.03	-19 9.0	1.709	2.608	12.9	21.2
7 10	16 7.22	-4 17.6	2.004	2.775	16.2	20.5	7 10	16 2.44	-19 11.8	1.795	2.610	16.1	21.4
7979	Pozharskij		5 31.3 240°14	3°5/1.6	18		463378	2013 <i>BK</i> ₂₅		5 31.3 357°07	4°4/29.9	16	
5 1	16 58.65	-32 12.5	2.119	2.985	11.8	18.4	5 1	16 54.76	-8 51.6	2.226	3.105	10.7	21.3
5 11	16 52.14	-32 25.9	2.042	2.979	8.8	18.2	5 11	16 49.09	-8 33.6	2.162	3.105	8.0	21.1
5 21	16 43.64	-32 28.7	1.990	2.973	5.7	18.0	5 21	16 41.95	-8 22.0	2.123	3.105	5.4	20.9
5 31	16 34.01	-32 19.3	1.964	2.967	3.5	17.9	5 31	16 34.02	-8 19.1	2.111	3.105	4.4	20.9
6 10	16 24.30	-31 58.4	1.965	2.960	4.8	17.9	6 10	16 26.09	-8 26.2	2.126	3.105	5.9	21.0
6 20	16 15.54	-31 28.4	1.994	2.954	7.9	18.1	6 20	16 18.90	-8 43.6	2.167	3.105	8.6	21.1
6 30	16 8.61	-30 53.4	2.047	2.947	11.0	18.3	6 30	16 13.12	-9 11.1	2.233	3.105	11.4	21.3
7 10	16 4.07	-30 17.8	2.122	2.941	13.9	18.5	7 10	16 9.20	-9 47.6	2.319	3.105	13.8	21.5
477736	2010 <i>TT</i> ₈₈		5 31.3 256°29	0°5/31.1	16		457745	2009 <i>HU</i> ₄₀		5 31.3 135°83	0°8/31.2	18	
5 1	16 54.98	-20 47.0	2.493	3.375	9.6	22.3	5 1	17 2.17	-19 36.1	1.648	2.535	13.4	21.2
5 11	16 49.24	-20 39.6	2.411	3.364	6.8	22.1	5 11	16 54.68	-19 41.9	1.591	2.546	9.4	21.0
5 21	16 42.03	-20 30.0	2.355	3.352	3.5	21.8	5 21	16 44.99	-19 46.3	1.558	2.556	4.9	20.7
5 31	16 33.97	-20 18.9	2.327	3.340	0.5	21.6	5 31	16 34.13	-19 49.5	1.552	2.565	0.8	20.4
6 10	16 25.82	-20 7.4	2.327	3.328	3.5	21.8	6 10	16 23.34	-19 52.5	1.572	2.574	4.7	20.7
6 20	16 18.33	-19 57.0	2.356	3.316	6.8	22.0	6 20	16 13.79	-19 56.7	1.619	2.582	9.1	21.0
6 30	16 12.16	-19 49.5	2.410	3.304	9.8	22.1	6 30	16 6.42	-20 4.1	1.690	2.590	13.0	21.3
7 10	16 7.81	-19 46.4	2.486	3.292	12.4	22.3	7 10	16 1.78	-20 16.3	1.781	2.597	16.2	21.5
181140	2005 <i>QW</i> ₁₆₅		5 31.3 264°37	1°1/30.9	18		354184	2002 <i>DT</i> ₁₄		5 31.3 164°20	4°9/28.		

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
231299	2006 <i>BH</i> ₁₄₅		5 31.4 105°88	7.8/ 3.4 17			270398	2002 <i>AE</i> ₁₈₉		5 31.4 90°34	7.1/28.8 17		
5 1	17 3.53	-43 2.9	1.888	2.718	14.5	20.0	5 1	16 57.48	-4 44.5	1.813	2.688	13.0	20.8
5 11	16 55.94	-43 39.3	1.827	2.725	11.9	19.8	5 11	16 51.00	-3 40.8	1.775	2.708	10.1	20.7
5 21	16 45.77	-43 55.7	1.787	2.731	9.4	19.7	5 21	16 42.92	-2 48.2	1.761	2.729	7.8	20.6
5 31	16 34.16	-43 48.1	1.771	2.738	7.9	19.6	5 31	16 34.11	-2 11.4	1.773	2.749	7.2	20.6
6 10	16 22.61	-43 16.5	1.780	2.744	8.3	19.6	6 10	16 25.53	-1 52.8	1.811	2.769	8.6	20.7
6 20	16 12.52	-42 24.8	1.814	2.750	10.1	19.7	6 20	16 18.03	-1 53.1	1.873	2.788	11.1	20.9
6 30	16 4.98	-41 19.9	1.871	2.756	12.7	19.9	6 30	16 12.30	-2 11.0	1.957	2.807	13.7	21.1
7 10	16 0.56	-40 9.6	1.949	2.762	15.1	20.1	7 10	16 8.74	-2 43.8	2.061	2.826	15.9	21.3
63529	2001 <i>PY</i> ₁₉		5 31.4 304°28	5°3/ 1.7 18			259175	2003 <i>AJ</i> ₃		5 31.4 134°43	6°1/29.6 17		
5 1	16 59.69	-34 57.9	1.839	2.703	13.4	18.7	5 1	16 58.41	-5 33.6	1.932	2.804	12.4	20.6
5 11	16 53.54	-35 27.0	1.736	2.668	10.4	18.4	5 11	16 51.70	-5 1.1	1.880	2.815	9.5	20.4
5 21	16 44.74	-35 43.5	1.657	2.633	7.3	18.1	5 21	16 43.34	-4 38.6	1.853	2.825	7.0	20.3
5 31	16 34.13	-35 43.3	1.602	2.598	5.3	17.9	5 31	16 34.13	-4 29.1	1.851	2.835	6.1	20.3
6 10	16 22.99	-35 25.4	1.573	2.563	6.5	17.9	6 10	16 25.02	-4 34.4	1.877	2.844	7.6	20.4
6 20	16 12.68	-34 51.6	1.570	2.528	9.8	18.0	6 20	16 16.90	-4 54.5	1.928	2.853	10.3	20.6
6 30	16 4.49	-34 7.0	1.590	2.493	13.5	18.2	6 30	16 10.47	-5 28.4	2.002	2.861	13.0	20.8
7 10	15 59.29	-33 18.2	1.630	2.458	17.0	18.3	7 10	16 6.19	-6 13.7	2.096	2.869	15.5	20.9
204236	2004 <i>DB</i> ₃₃		5 31.4 0°68	1°7/30.9 17			144452	2004 <i>EC</i> ₄₁		5 31.4 357°32	2°5/ 1.2 17		
5 1	16 54.42	-18 24.3	1.541	2.443	13.3	19.2	5 1	16 55.24	-28 16.8	1.536	2.429	13.9	19.3
5 11	16 49.42	-18 13.9	1.479	2.441	9.3	19.0	5 11	16 50.18	-28 22.6	1.471	2.425	10.1	19.0
5 21	16 42.32	-18 3.4	1.441	2.440	5.0	18.8	5 21	16 42.81	-28 18.6	1.428	2.422	5.9	18.8
5 31	16 34.04	-17 54.2	1.427	2.440	1.7	18.5	5 31	16 34.11	-28 4.0	1.410	2.421	2.6	18.5
6 10	16 25.75	-17 48.1	1.439	2.440	5.1	18.8	6 10	16 25.38	-27 40.4	1.417	2.420	4.9	18.7
6 20	16 18.54	-17 47.0	1.475	2.442	9.4	19.0	6 20	16 17.83	-27 11.1	1.449	2.420	9.1	18.9
6 30	16 13.34	-17 52.6	1.534	2.445	13.4	19.2	6 30	16 12.49	-26 40.6	1.503	2.421	13.1	19.2
7 10	16 10.71	-18 5.7	1.612	2.448	16.7	19.5	7 10	16 9.95	-26 13.3	1.576	2.423	16.6	19.4
191129	2002 <i>FP</i> ₁₀		5 31.4 41°50	1°9/31.8 17			58805	1998 <i>FN</i> ₁₁₃		5 31.4 92°60	1°7/30.5 18		
5 1	16 59.14	-25 31.9	1.460	2.353	14.4	19.3	5 1	16 55.17	-18 54.1	2.168	3.056	10.6	19.3
5 11	16 52.81	-25 55.8	1.410	2.366	10.3	19.1	5 11	16 49.40	-18 9.4	2.106	3.061	7.4	19.1
5 21	16 44.10	-26 12.8	1.383	2.379	5.7	18.8	5 21	16 42.13	-17 22.6	2.069	3.066	4.0	18.9
5 31	16 34.11	-26 21.6	1.381	2.393	1.9	18.6	5 31	16 34.09	-16 36.3	2.060	3.071	1.8	18.7
6 10	16 24.23	-26 22.7	1.404	2.407	4.9	18.9	6 10	16 26.14	-15 53.3	2.079	3.076	4.3	18.9
6 20	16 15.75	-26 18.5	1.452	2.422	9.3	19.1	6 20	16 19.06	-15 16.3	2.124	3.081	7.7	19.1
6 30	16 9.66	-26 12.5	1.523	2.437	13.3	19.4	6 30	16 13.50	-14 47.8	2.195	3.085	10.8	19.3
7 10	16 6.49	-26 8.1	1.613	2.452	16.6	19.7	7 10	16 9.90	-14 28.8	2.287	3.090	13.5	19.5
504104	2006 <i>FN</i> ₂		5 31.4 25°68	6°9/28.5 17			356604	2011 <i>TR</i> ₁₂		5 31.4 200°06	3°8/29.7 16		
5 1	16 54.99	-6 59.4	1.694	2.581	13.1	21.4	5 1	16 54.57	-10 41.1	2.450	3.329	9.9	22.0
5 11	16 49.51	-5 48.1	1.641	2.584	10.1	21.2	5 11	16 48.88	-10 8.4	2.382	3.326	7.3	21.8
5 21	16 42.25	-4 45.3	1.611	2.586	7.6	21.0	5 21	16 41.85	-9 39.8	2.339	3.324	4.8	21.7
5 31	16 34.05	-3 56.4	1.606	2.589	6.9	21.0	5 31	16 34.09	-9 17.6	2.324	3.321	3.8	21.6
6 10	16 25.92	-3 25.2	1.626	2.592	8.7	21.1	6 10	16 26.32	-9 3.8	2.338	3.318	5.4	21.7
6 20	16 18.80	-3 13.6	1.670	2.596	11.6	21.3	6 20	16 19.24	-8 59.5	2.378	3.315	8.0	21.8
6 30	16 13.47	-3 21.3	1.736	2.599	14.5	21.5	6 30	16 13.45	-9 5.2	2.443	3.312	10.6	22.0
7 10	16 10.40	-3 46.0	1.820	2.603	17.1	21.7	7 10	16 9.38	-9 20.5	2.529	3.308	13.0	22.2
100193	1994 <i>CC</i> ₇		5 31.4 127°03	0°0/31.3 17			370242	2002 <i>PY</i> ₁₆₄		5 31.4 308°89	0°6/31.2 17		
5 1	17 0.40	-22 23.3	1.525	2.418	14.0	20.2	5 1	16 57.78	-20 51.3	1.308	2.212	15.0	20.9
5 11	16 53.63	-22 16.7	1.466	2.422	9.8	20.0	5 11	16 52.44	-20 49.0	1.227	2.190	10.7	20.6
5 21	16 44.52	-22 5.4	1.429	2.427	5.2	19.7	5 21	16 44.25	-20 43.9	1.168	2.168	5.7	20.3
5 31	16 34.13	-21 49.8	1.417	2.431	0.2	19.3	5 31	16 34.19	-20 36.4	1.133	2.147	0.6	19.8
6 10	16 23.78	-21 32.1	1.432	2.436	4.8	19.7	6 10	16 23.70	-20 28.1	1.122	2.125	5.6	20.1
6 20	16 14.73	-21 14.9	1.473	2.440	9.5	20.0	6 20	16 14.31	-20 21.6	1.134	2.105	11.1	20.4
6 30	16 7.97	-21 1.7	1.536	2.443	13.6	20.3	6 30	16 7.37	-20 20.3	1.167	2.085	16.1	20.6
7 10	16 4.07	-20 55.0	1.619	2.447	17.0	20.5	7 10	16 3.75	-20 26.6	1.218	2.066	20.4	20.8
319599	2006 <i>ST</i> ₁₈₇		5 31.4 45°78	1°5/30.9 17			475472	2006 <i>SP</i> ₁₁₆		5 31.4 58°75	3°7/ 1.5 16		
5 1	16 58.70	-19 24.6	1.286	2.190	15.2	20.8	5 1	16 58.72	-31 46.1	2.015	2.884	12.1	21.0
5 11	16 52.58	-19 10.9	1.239	2.201	10.7	20.6	5 11	16 52.24	-32 13.1	1.951	2.889	9.0	20.8
5 21	16 43.99	-18 55.7	1.213	2.212	5.6	20.3	5 21	16 43.76	-32 29.9	1.911	2.894	5.8	20.6
5 31	16 34.11	-18 40.6	1.211	2.224	1.5	20.0	5 31	16 34.17	-32 34.7	1.897	2.899	3.7	20.5
6 10	16 24.41	-18 28.0	1.234	2.236	5.6	20.4	6 10	16 24.55	-32 27.7	1.910	2.904	5.0	20.5
6 20	16 16.20	-18 20.4	1.281	2.249	10.4	20.7	6 20	16 15.97	-32 10.9	1.949	2.909	8.0	20.7
6 30	16 10.48	-18 20.2	1.349	2.262	14.7	20.9	6 30	16 9.30	-31 48.3	2.013	2.915	11.1	20.9
7 10	16 7.77	-18 28.5	1.436	2.275	18.3	21.2	7 10	16 5.09	-31 24.1	2.098	2.920	13.9	21.1
199341	2006 <i>BM</i> ₁₅₇		5 31.4 197°67	0°9/31.7 18			235591	2004 <i>PR</i> ₂₅		5 31.4 297°17	4°5/ 1.7 17		
5 1	16 58.58	-24 54.7	1.961	2.844	11.8	20.9	5 1	16 59.64	-32 42.3	1.620	2.496	14.2	20.2
5 11	16 52.07	-24 53.3	1.891	2.843	8.4	20.6	5 11	16 53.46	-33 1.7	1.541	2.482	10.8	20.0
5 21	16 43.64	-24 46.0	1.845	2.841	4.5	20.4	5 21	16 44.64	-33 7.9	1.484	2.468	7.1	19.7
5 31	16 34.13	-24 32.7	1.826	2.839	1.0	20.1	5 31	16 34.20	-32 58.2	1.452	2.455	4.5	19.6
6 10	16 24.58	-24 14.7	1.835	2.837	4.0	20.3	6 10	16 23.53	-32 32.6	1.445	2.441	6.0	19.6
6 20	16 16.02	-23 54.5	1.870	2.835	7.9	20.6	6 20	16 14.03	-31 54.7	1.463	2.428	9.7	19.8
6 30	16 9.27	-23 35.2	1.930	2.833	11.5	20.8	6 30	16 6.89	-31 10.0	1.504	2.415	13.6	20.0
7 10	16 4.90	-23 19.6	2.011	2.830	14.5	21.0	7 10	16 2.83	-30 25.0	1.565	2.402	17.1	20.2
469298	1997 <i>EN</i> ₁₆		5 31.4 54°50	0°4/31.5 17			197585	2004 <i>HA</i> ₁₀		5			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
120821	1998 <i>HY</i> ₉₄		5 31.4 355°71	6°6/31.6	17		62119	2000 <i>RH</i> ₁₀₂		5 31.4 259°79	2°5/1.5	18	
5 1	16 59.48	-30 51.1	1.206	2.101	16.7	18.1	5 1	16 57.13	-30 56.3	2.356	3.223	10.7	19.1
5 11	16 54.08	-32 38.7	1.145	2.094	12.8	17.9	5 11	16 50.96	-30 46.0	2.271	3.210	7.9	18.9
5 21	16 45.30	-34 18.1	1.104	2.089	8.8	17.6	5 21	16 43.07	-30 25.9	2.210	3.197	4.8	18.7
5 31	16 34.26	-35 41.0	1.087	2.086	6.7	17.5	5 31	16 34.20	-29 55.4	2.177	3.184	2.5	18.5
6 10	16 22.74	-36 42.0	1.093	2.083	8.4	17.6	6 10	16 25.27	-29 16.0	2.172	3.171	4.0	18.6
6 20	16 12.63	-37 20.0	1.121	2.083	12.3	17.8	6 20	16 17.15	-28 30.6	2.194	3.157	7.1	18.7
6 30	16 5.54	-37 39.4	1.170	2.084	16.4	18.0	6 30	16 10.61	-27 43.1	2.243	3.144	10.2	18.9
7 10	16 2.43	-37 46.9	1.235	2.086	20.0	18.3	7 10	16 6.19	-26 57.4	2.313	3.130	12.9	19.1
360263	2000 <i>QJ</i> ₁₈₄		5 31.4 300°18	0°7/31.5	18		352055	2006 <i>VR</i> ₁₇₃		5 31.4 225°95	1°0/31.7	18	
5 1	16 59.90	-22 55.7	1.278	2.179	15.5	20.6	5 1	16 57.50	-24 19.8	2.330	3.208	10.4	21.0
5 11	16 54.22	-23 9.1	1.190	2.151	11.2	20.2	5 11	16 51.18	-24 39.0	2.255	3.204	7.4	20.8
5 21	16 45.36	-23 18.7	1.123	2.122	6.1	19.9	5 21	16 43.18	-24 54.4	2.205	3.200	4.0	20.6
5 31	16 34.27	-23 23.0	1.080	2.093	0.7	19.4	5 31	16 34.21	-25 5.2	2.182	3.195	1.0	20.4
6 10	16 22.50	-23 22.3	1.060	2.065	5.7	19.7	6 10	16 25.13	-25 11.7	2.189	3.190	3.6	20.6
6 20	16 11.74	-23 18.7	1.064	2.036	11.6	19.9	6 20	16 16.81	-25 14.9	2.223	3.186	7.0	20.8
6 30	16 3.57	-23 16.1	1.089	2.008	16.9	20.1	6 30	16 10.00	-25 16.7	2.282	3.181	10.1	21.0
7 10	15 59.02	-23 18.5	1.131	1.981	21.5	20.3	7 10	16 5.22	-25 19.2	2.364	3.176	12.8	21.1
163145	2002 <i>CS</i> ₈₈		5 31.4 189°85	1°3/31.8	17		51976	2001 <i>RZ</i> ₇₉		5 31.4 201°97	0°9/31.0	18	
5 1	17 2.26	-25 56.3	1.720	2.601	13.3	20.9	5 1	16 56.02	-20 10.2	2.338	3.221	10.1	18.9
5 11	16 54.90	-25 53.4	1.650	2.600	9.5	20.7	5 11	16 50.03	-19 52.9	2.266	3.219	7.1	18.7
5 21	16 45.23	-25 42.7	1.604	2.599	5.2	20.4	5 21	16 42.53	-19 33.4	2.219	3.216	3.7	18.5
5 31	16 34.26	-25 23.6	1.584	2.597	1.4	20.2	5 31	16 34.19	-19 12.8	2.201	3.214	0.9	18.3
6 10	16 23.25	-24 57.8	1.592	2.595	4.5	20.4	6 10	16 25.85	-18 52.8	2.210	3.211	3.7	18.5
6 20	16 13.43	-24 28.6	1.626	2.592	8.9	20.6	6 20	16 18.26	-18 35.2	2.248	3.207	7.1	18.7
6 30	16 5.80	-24 0.1	1.685	2.588	12.8	20.9	6 30	16 12.12	-18 22.0	2.310	3.204	10.2	18.9
7 10	16 0.95	-23 36.2	1.764	2.584	16.2	21.1	7 10	16 7.88	-18 14.7	2.395	3.200	12.9	19.1
458154	2010 <i>JR</i> ₁₁₇		5 31.4 349°23	2°9/30.8	17		325237	2008 <i>GV</i> ₆₄		5 31.4 331°19	0°1/31.4	17	
5 1	16 56.27	-16 51.6	1.022	1.939	17.0	20.3	5 1	16 56.43	-21 43.9	1.253	2.160	15.3	20.5
5 11	16 51.55	-16 39.2	0.965	1.933	12.1	20.0	5 11	16 51.49	-21 48.2	1.182	2.146	10.9	20.2
5 21	16 43.79	-16 29.0	0.927	1.927	6.7	19.7	5 21	16 43.74	-21 49.1	1.132	2.132	5.8	19.9
5 31	16 34.21	-16 23.5	0.911	1.923	2.9	19.4	5 31	16 34.24	-21 46.7	1.106	2.120	0.2	19.4
6 10	16 24.49	-16 25.1	0.917	1.919	7.0	19.6	6 10	16 24.47	-21 42.4	1.103	2.108	5.5	19.8
6 20	16 16.29	-16 35.9	0.944	1.917	12.5	19.9	6 20	16 15.93	-21 38.5	1.123	2.097	10.9	20.0
6 30	16 10.93	-16 57.2	0.990	1.915	17.6	20.2	6 30	16 9.91	-21 38.4	1.164	2.087	15.7	20.3
7 10	16 9.15	-17 28.8	1.052	1.915	21.8	20.5	7 10	16 7.19	-21 44.5	1.223	2.078	19.9	20.5
288748	2004 <i>RT</i> ₆₄		5 31.4 290°15	5°8/29.4	18		442117	2010 <i>TK</i> ₁₇₃		5 31.4 288°64	4°3/1.9	16	
5 1	16 58.18	-12 7.3	1.312	2.212	15.2	20.6	5 1	16 58.00	-34 44.8	2.282	3.139	11.4	21.6
5 11	16 52.59	-11 7.9	1.232	2.189	11.3	20.3	5 11	16 51.82	-35 3.7	2.189	3.118	8.8	21.4
5 21	16 44.29	-10 11.1	1.175	2.166	7.5	20.0	5 21	16 43.65	-35 11.4	2.121	3.096	6.1	21.2
5 31	16 34.24	-9 22.7	1.141	2.142	5.9	19.8	5 31	16 34.24	-35 5.7	2.078	3.074	4.3	21.0
6 10	16 23.82	-8 48.2	1.131	2.119	8.8	19.9	6 10	16 24.60	-34 46.5	2.063	3.052	5.2	21.0
6 20	16 14.46	-8 31.8	1.144	2.095	13.3	20.1	6 20	16 15.75	-34 15.8	2.075	3.030	7.9	21.2
6 30	16 7.41	-8 35.4	1.177	2.072	17.8	20.3	6 30	16 8.60	-33 37.6	2.111	3.008	10.9	21.3
7 10	16 3.50	-8 58.3	1.227	2.048	21.8	20.5	7 10	16 3.78	-32 56.6	2.169	2.986	13.6	21.4
3451	Mentor		5 31.4 305°52	5°6/26.5	18		311499	2005 <i>WM</i> ₅₇		5 31.4 226°20	6°2/28.7	18	
5 1	16 47.69	+ 5 0.5	4.144	4.969	7.3	15.6	5 1	16 54.62	+ 1 5.3	2.901	3.743	9.6	21.2
5 11	16 43.74	+ 5 45.8	4.084	4.964	6.3	15.5	5 11	16 48.80	+ 1 28.2	2.828	3.733	7.9	21.1
5 21	16 39.08	+ 6 22.5	4.050	4.960	5.7	15.5	5 21	16 41.81	+ 1 40.5	2.781	3.723	6.6	21.0
5 31	16 34.05	+ 6 48.6	4.042	4.955	5.6	15.5	5 31	16 34.17	+ 1 39.9	2.760	3.712	6.3	20.9
6 10	16 29.01	+ 7 2.8	4.060	4.950	6.2	15.5	6 10	16 26.49	+ 1 25.2	2.767	3.700	7.1	21.0
6 20	16 24.33	+ 7 4.7	4.102	4.946	7.2	15.6	6 20	16 19.33	+ 0 56.4	2.800	3.688	8.8	21.1
6 30	16 20.33	+ 6 54.8	4.168	4.941	8.3	15.6	6 30	16 13.24	+ 0 14.6	2.857	3.676	10.7	21.2
7 10	16 17.26	+ 6 34.1	4.254	4.936	9.4	15.7	7 10	16 8.62	- 0 38.2	2.935	3.664	12.4	21.3
308508	2005 <i>UH</i> ₁₄		5 31.4 185°57	0°8/31.7	18		235807	2004 <i>XH</i> ₄₆		5 31.4 184°87	1°0/30.9	18	
5 1	16 55.76	-24 57.0	2.899	3.771	8.8	21.9	5 1	16 57.61	-19 26.2	2.670	3.546	9.3	22.6
5 11	16 49.66	-24 59.3	2.824	3.770	6.2	21.7	5 11	16 50.96	-19 8.3	2.597	3.546	6.5	22.4
5 21	16 42.27	-24 57.3	2.775	3.770	3.4	21.5	5 21	16 42.96	-18 48.6	2.550	3.546	3.4	22.2
5 31	16 34.17	-24 51.1	2.756	3.769	0.8	21.3	5 31	16 34.22	-18 28.2	2.532	3.544	1.0	22.0
6 10	16 26.04	-24 41.5	2.766	3.767	2.9	21.5	6 10	16 25.48	-18 8.6	2.544	3.542	3.5	22.2
6 20	16 18.55	-24 29.8	2.804	3.766	5.8	21.7	6 20	16 17.44	-17 51.3	2.584	3.540	6.6	22.4
6 30	16 12.28	-24 17.9	2.869	3.763	8.4	21.8	6 30	16 10.71	-17 38.2	2.651	3.536	9.4	22.6
7 10	16 7.64	-24 7.6	2.958	3.761	10.7	22.0	7 10	16 5.72	-17 30.5	2.741	3.532	11.8	22.7
475479	2006 <i>SQ</i> ₁₇₆		5 31.4 78°44	4°6/1.9	16		129049	2004 <i>VQ</i> ₆		5 31.4 305°95	1°8/30.9	18	
5 1	16 59.29	-34 47.0	2.099	2.958	12.1	21.6	5 1	16 58.01	-19 19.2	1.197	2.105	15.8	19.6
5 11	16 52.67	-35 16.1	2.033	2.962	9.3	21.4	5 11	16 52.81	-19 2.6	1.116	2.081	11.3	19.2
5 21	16 44.02	-35 33.2	1.991	2.966	6.4	21.2	5 21	16 44.57	-18 43.5	1.057	2.057	6.1	18.9
5 31	16 34.23	-35 35.9	1.975	2.969	4.6	21.1	5 31	16 34.28	-18 23.7	1.020	2.033	1.8	18.5
6 10	16 24.42	-35 24.4	1.985	2.973	5.5	21.2	6 10	16 23.50	-18 6.0	1.007	2.010	6.4	18.7
6 20	16 15.63	-35 1.0	2.022	2.977	8.1	21.4	6 20	16 13.87	-17 53.9	1.017	1.987	12.1	19.0
6 30	16 8.77	-34 29.9	2.084	2.981	11.0	21.6	6 30	16 6.84	-17 51.0	1.046	1.965	17.4	19.2
7 10	16 4.40	-33 56.1	2.167	2.985	13.6	21.7	7 10	16 3.34	-17 59.5	1.092	1.944	22.0	19.4
449874	2015 <i>MK</i> ₆₆		5 31.4 313°68	0°5/31.2	17		180515	2004 <i>DB</i> ₂₆					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
16097	1999 <i>UE</i> ₅₀		5 31.4 333°57	0°5/31.3	18	R	150015	2005 <i>UD</i> ₃₅₀		5 31.4 257°39	5°0/29.3	18	
5 1	16 56.79	-20 34.8	1.168	2.078	15.9	17.9	5 1	16 54.16	-6 41.3	2.409	3.282	10.3	20.1
5 11	16 51.85	-20 41.9	1.100	2.065	11.3	17.6	5 11	16 48.70	-6 9.9	2.337	3.273	7.9	20.0
5 21	16 43.98	-20 47.2	1.053	2.053	6.0	17.2	5 21	16 41.86	-5 45.5	2.289	3.264	5.8	19.8
5 31	16 34.26	-20 51.0	1.028	2.042	0.6	16.8	5 31	16 34.23	-5 30.7	2.269	3.254	5.0	19.8
6 10	16 24.26	-20 54.4	1.027	2.032	5.8	17.2	6 10	16 26.56	-5 27.4	2.276	3.244	6.4	19.8
6 20	16 15.57	-20 59.4	1.048	2.023	11.4	17.4	6 20	16 19.52	-5 36.2	2.309	3.235	8.8	20.0
6 30	16 9.54	-21 8.6	1.090	2.015	16.4	17.7	6 30	16 13.75	-5 57.2	2.366	3.225	11.3	20.1
7 10	16 6.98	-21 24.3	1.148	2.007	20.6	17.9	7 10	16 9.70	-6 29.0	2.444	3.215	13.6	20.3
296969	2010 <i>EU</i> ₇₅		5 31.4 105°85	5°9/28.9	17		118153	5083 <i>T</i> ₋₃		5 31.4 120°31	4°8/30.3	18	
5 1	16 56.00	-6 44.1	2.034	2.911	11.7	21.4	5 1	17 0.70	-11 27.5	1.448	2.340	14.6	19.6
5 11	16 49.97	-5 46.0	1.986	2.923	8.9	21.2	5 11	16 53.82	-11 1.9	1.396	2.348	10.7	19.4
5 21	16 42.46	-4 56.0	1.963	2.936	6.6	21.1	5 21	16 44.68	-10 43.0	1.367	2.356	6.7	19.1
5 31	16 34.21	-4 17.9	1.966	2.948	6.0	21.1	5 31	16 34.34	-10 33.8	1.362	2.364	4.8	19.1
6 10	16 26.09	-3 54.6	1.995	2.960	7.5	21.2	6 10	16 24.10	-10 36.5	1.383	2.372	7.2	19.2
6 20	16 18.89	-3 47.0	2.050	2.972	10.0	21.4	6 20	16 15.17	-10 51.7	1.428	2.379	11.1	19.4
6 30	16 13.25	-3 54.9	2.128	2.983	12.5	21.6	6 30	16 8.49	-11 19.4	1.495	2.386	14.9	19.7
7 10	16 9.58	-4 16.6	2.226	2.994	14.8	21.7	7 10	16 4.60	-11 57.8	1.582	2.393	18.1	19.9
388010	2005 <i>QJ</i> ₁₈₉		5 31.4 276°63	7°6/27.6	18		510392	2011 <i>UO</i> ₁₀₁		5 31.4 289°03	0°1/31.4	17	
5 1	16 53.76	-0 43.8	2.221	3.083	11.5	20.9	5 1	16 57.06	-21 25.4	2.199	3.082	10.7	21.0
5 11	16 48.49	+0 17.5	2.154	3.071	9.4	20.7	5 11	16 50.93	-21 44.4	2.127	3.079	7.5	20.8
5 21	16 41.76	+1 8.0	2.110	3.059	7.9	20.6	5 21	16 43.10	-22 1.7	2.079	3.076	4.0	20.6
5 31	16 34.19	+1 43.3	2.091	3.047	7.7	20.6	5 31	16 34.28	-22 16.8	2.060	3.073	0.2	20.3
6 10	16 26.58	+2 0.5	2.099	3.036	8.9	20.6	6 10	16 25.37	-22 30.0	2.068	3.071	3.6	20.6
6 20	16 19.64	+1 58.6	2.130	3.024	10.9	20.7	6 20	16 17.24	-22 41.9	2.104	3.068	7.3	20.8
6 30	16 14.05	+1 38.1	2.184	3.012	13.2	20.9	6 30	16 10.65	-22 54.0	2.165	3.065	10.5	21.0
7 10	16 10.28	+1 1.4	2.257	3.000	15.3	21.0	7 10	16 6.14	-23 7.8	2.248	3.062	13.3	21.2
362959	2013 <i>BQ</i> ₁₄		5 31.4 237°23	3°9/2.1	18		259916	2004 <i>ES</i> ₂₃		5 31.4 176°64	16°7/24.9	18	
5 1	16 57.94	-34 46.7	2.427	3.281	10.9	20.6	5 1	17 1.71	+10 6.4	1.235	2.077	19.9	21.1
5 11	16 51.55	-34 57.0	2.348	3.275	8.3	20.4	5 11	16 54.76	+12 17.6	1.198	2.080	17.9	21.0
5 21	16 43.40	-34 56.0	2.294	3.269	5.7	20.2	5 21	16 45.25	+13 58.2	1.179	2.081	16.8	20.9
5 31	16 34.26	-34 42.3	2.266	3.262	3.9	20.1	5 31	16 34.37	+14 57.3	1.180	2.082	17.0	21.0
6 10	16 25.06	-34 16.6	2.266	3.256	4.8	20.1	6 10	16 23.60	+15 9.8	1.200	2.082	18.3	21.0
6 20	16 16.71	-33 41.1	2.293	3.249	7.3	20.3	6 20	16 14.29	+14 37.2	1.238	2.082	20.3	21.2
6 30	16 10.01	-32 59.8	2.346	3.242	10.0	20.5	6 30	16 7.51	+13 25.7	1.292	2.081	22.5	21.3
7 10	16 5.46	-32 17.0	2.421	3.235	12.5	20.6	7 10	16 3.84	+11 44.9	1.358	2.079	24.6	21.5
75326	1999 <i>XZ</i> ₅₀		5 31.4 176°23	0°4/31.2	17		17768	Tigerlily		5 31.4 184°92	3°7/29.7	18	
5 1	17 0.52	-21 47.6	1.962	2.844	11.8	21.2	5 1	16 54.89	-11 30.0	2.365	3.246	10.1	18.6
5 11	16 53.38	-21 30.7	1.894	2.846	8.3	20.9	5 11	16 49.17	-10 51.8	2.300	3.246	7.4	18.4
5 21	16 44.36	-21 9.7	1.851	2.848	4.4	20.7	5 21	16 42.08	-10 17.2	2.260	3.246	4.8	18.2
5 31	16 34.30	-20 45.5	1.836	2.850	0.4	20.4	5 31	16 34.25	-9 48.6	2.247	3.245	3.8	18.2
6 10	16 24.27	-20 20.2	1.849	2.850	4.2	20.7	6 10	16 26.44	-9 28.3	2.262	3.245	5.4	18.3
6 20	16 15.26	-19 56.3	1.889	2.850	8.1	20.9	6 20	16 19.34	-9 17.7	2.305	3.244	8.1	18.4
6 30	16 8.09	-19 36.7	1.954	2.850	11.7	21.1	6 30	16 13.59	-9 17.5	2.371	3.243	10.8	18.6
7 10	16 3.28	-19 23.6	2.040	2.848	14.7	21.3	7 10	16 9.61	-9 27.5	2.459	3.241	13.2	18.8
90703	Indulgencia		5 31.4 232°93	7°6/2.6	18		119463	2001 <i>TL</i> ₂₀₈		5 31.4 152°92	5°3/29.6	18	
5 1	17 5.02	-42 24.1	2.085	2.909	13.5	19.0	5 1	16 57.38	-9 25.2	1.784	2.669	12.7	19.9
5 11	16 57.16	-43 14.7	2.003	2.899	11.1	18.8	5 11	16 51.22	-8 42.6	1.726	2.672	9.4	19.7
5 21	16 46.62	-43 48.4	1.945	2.887	8.9	18.6	5 21	16 43.25	-8 6.7	1.691	2.674	6.5	19.6
5 31	16 34.40	-44 0.3	1.911	2.876	7.6	18.5	5 31	16 34.29	-7 41.1	1.682	2.677	5.3	19.5
6 10	16 21.88	-43 48.8	1.903	2.864	8.1	18.5	6 10	16 25.39	-7 28.4	1.700	2.679	7.2	19.6
6 20	16 10.49	-43 16.1	1.921	2.851	10.0	18.6	6 20	16 17.47	-7 29.9	1.743	2.681	10.4	19.8
6 30	16 1.44	-42 27.8	1.962	2.838	12.6	18.8	6 30	16 11.33	-7 45.7	1.808	2.683	13.5	20.0
7 10	15 55.47	-41 31.2	2.024	2.824	15.1	18.9	7 10	16 7.48	-8 14.2	1.893	2.684	16.3	20.2
519572	2012 <i>SL</i> ₇₀		5 31.4 285°92	4°9/1.6	17		238725	2005 <i>GE</i> ₈₂		5 31.4 322°88	7°2/28.8	18	
5 1	17 0.48	-33 51.8	1.858	2.723	13.2	21.6	5 1	16 54.69	-5 15.5	1.719	2.602	13.2	19.9
5 11	16 53.99	-34 26.0	1.769	2.702	10.1	21.3	5 11	16 49.47	-4 22.4	1.654	2.593	10.3	19.7
5 21	16 44.98	-34 48.5	1.703	2.682	7.0	21.1	5 21	16 42.40	-3 39.5	1.613	2.585	7.9	19.6
5 31	16 34.34	-34 55.8	1.663	2.661	4.9	20.9	5 31	16 34.27	-3 11.4	1.596	2.577	7.3	19.5
6 10	16 23.33	-34 47.1	1.649	2.640	6.1	21.0	6 10	16 26.08	-3 1.6	1.604	2.569	8.9	19.6
6 20	16 13.27	-34 24.2	1.661	2.619	9.3	21.1	6 20	16 18.80	-3 11.0	1.636	2.562	11.7	19.7
6 30	16 5.33	-33 51.8	1.697	2.598	12.9	21.3	6 30	16 13.24	-3 39.1	1.689	2.555	14.7	19.9
7 10	16 0.27	-33 15.7	1.752	2.577	16.1	21.4	7 10	16 9.96	-4 23.0	1.761	2.549	17.5	20.1
157567	2005 <i>UM</i> ₁₄₃		5 31.4 149°13	6°9/29.1	17		393875	2005 <i>TD</i> ₂₈		5 31.4 260°33	2°5/1.1	18	
5 1	16 57.56	-2 44.6	2.059	2.923	12.1	20.2	5 1	16 57.83	-28 47.4	2.351	3.222	10.6	20.9
5 11	16 51.10	-2 3.6	2.006	2.931	9.6	20.1	5 11	16 51.53	-29 13.8	2.271	3.213	7.7	20.7
5 21	16 43.09	-1 33.9	1.977	2.938	7.6	20.0	5 21	16 43.46	-29 33.7	2.215	3.204	4.7	20.5
5 31	16 34.27	-1 19.1	1.974	2.945	7.0	19.9	5 31	16 34.31	-29 45.5	2.187	3.194	2.5	20.3
6 10	16 25.53	-1 20.9	1.997	2.951	8.2	20.0	6 10	16 25.01	-29 49.1	2.187	3.185	4.0	20.4
6 20	16 17.68	-1 39.7	2.046	2.956	10.5	20.2	6 20	16 16.46	-29 45.8	2.215	3.176	7.1	20.6
6 30	16 11.40	-2 13.9	2.118	2.962	13.0	20.3	6 30	16 9.46	-29 38.0	2.268	3.166	10.2	20.7
7 10	16 7.13	-3 1.1	2.209	2.966	15.2	20.5	7 10	16 4.57	-29 28.7	2.343	3.157	12.9	20.9
140455	2001 <i>TY</i> ₁₂₄		5 31.4 187°55	1°2/31.9	18								

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
519866	2013 <i>NV</i> ₂₉		5 31.4 332°25	3°0/30.8	17		375747	2009 <i>SP</i> ₄₀		5 31.4 242°42	4°8/29.4	17	
5 1	16 57.90	-15 28.0	1.290	2.194	15.2	21.2	5 1	16 57.22	-12 6.7	1.785	2.674	12.5	21.6
5 11	16 52.34	-15 23.9	1.225	2.186	10.9	20.9	5 11	16 51.22	-11 4.4	1.716	2.666	9.2	21.4
5 21	16 44.14	-15 23.6	1.181	2.179	6.2	20.6	5 21	16 43.32	-10 4.7	1.671	2.658	6.0	21.2
5 31	16 34.36	-15 28.8	1.162	2.172	3.0	20.4	5 31	16 34.35	-9 12.1	1.652	2.650	4.8	21.1
6 10	16 24.41	-15 41.0	1.166	2.166	6.4	20.6	6 10	16 25.35	-8 30.7	1.659	2.642	7.0	21.2
6 20	16 15.68	-16 1.2	1.194	2.160	11.2	20.9	6 20	16 17.29	-8 3.4	1.693	2.633	10.4	21.4
6 30	16 9.37	-16 30.0	1.243	2.155	15.8	21.1	6 30	16 11.01	-7 51.7	1.748	2.625	13.8	21.6
7 10	16 6.17	-17 7.1	1.310	2.151	19.6	21.3	7 10	16 7.05	-7 55.3	1.823	2.616	16.8	21.8
486026	2012 <i>TM</i> ₁₅		5 31.4 237°42	0°5/31.1	18		253107	2002 <i>UK</i> ₄		5 31.4 189°15	7°4/3.8	18	
5 1	16 48.57	-20 2.1	4.419	5.296	5.9	21.4	5 1	17 10.57	-41 22.8	1.267	2.119	18.9	19.8
5 11	16 44.38	-19 49.2	4.343	5.294	4.1	21.3	5 11	17 1.63	-40 54.0	1.199	2.119	15.0	19.6
5 21	16 39.47	-19 35.3	4.295	5.291	2.1	21.1	5 21	16 49.06	-39 53.7	1.150	2.119	10.9	19.3
5 31	16 34.18	-19 21.1	4.276	5.289	0.5	21.0	5 31	16 34.59	-38 18.1	1.125	2.117	7.8	19.1
6 10	16 28.89	-19 7.2	4.287	5.287	2.1	21.1	6 10	16 20.50	-36 11.8	1.125	2.115	8.3	19.2
6 20	16 23.95	-18 54.7	4.326	5.284	4.1	21.3	6 20	16 8.74	-33 46.7	1.149	2.113	11.9	19.3
6 30	16 19.70	-18 44.3	4.393	5.282	5.9	21.4	6 30	16 0.64	-31 18.1	1.197	2.109	16.2	19.6
7 10	16 16.40	-18 36.8	4.484	5.279	7.5	21.5	7 10	15 56.70	-28 59.7	1.264	2.106	20.1	19.8
10341	1991 <i>SC</i> ₂		5 31.4 287°46	1°2/30.9	18		141342	2002 <i>AN</i> ₉		5 31.4 143°28	1°4/1.0	18	
5 1	16 56.18	-19 7.5	1.999	2.888	11.3	17.9	5 1	16 56.65	-27 17.2	2.528	3.400	9.9	20.6
5 11	16 50.42	-18 55.7	1.925	2.881	8.0	17.7	5 11	16 50.44	-27 11.2	2.461	3.406	7.1	20.4
5 21	16 42.87	-18 42.6	1.877	2.874	4.2	17.4	5 21	16 42.78	-26 58.6	2.420	3.412	4.0	20.2
5 31	16 34.31	-18 29.3	1.855	2.867	1.2	17.2	5 31	16 34.36	-26 39.7	2.406	3.418	1.4	20.1
6 10	16 25.68	-18 17.5	1.860	2.861	4.3	17.4	6 10	16 25.98	-26 15.6	2.422	3.423	3.3	20.2
6 20	16 17.89	-18 9.1	1.892	2.854	8.1	17.6	6 20	16 18.40	-25 48.7	2.465	3.428	6.4	20.4
6 30	16 11.73	-18 5.7	1.948	2.847	11.6	17.8	6 30	16 12.27	-25 21.5	2.535	3.433	9.2	20.6
7 10	16 7.76	-18 8.7	2.026	2.841	14.5	18.0	7 10	16 8.00	-24 56.6	2.627	3.438	11.7	20.8
260944	2005 <i>SL</i> ₁₅		5 31.4 296°72	3°4/29.8	16		398841	2013 <i>CL</i> ₃₁		5 31.4 216°59	1°8/30.8	18	
5 1	16 54.28	-13 34.1	2.159	3.046	10.7	21.1	5 1	16 55.59	-16 7.7	2.496	3.377	9.6	21.5
5 11	16 48.90	-12 49.2	2.090	3.042	7.7	20.9	5 11	16 49.72	-16 5.1	2.423	3.374	6.8	21.3
5 21	16 42.01	-12 6.3	2.046	3.037	4.8	20.7	5 21	16 42.43	-16 3.7	2.375	3.370	3.8	21.1
5 31	16 34.29	-11 28.1	2.030	3.032	3.5	20.6	5 31	16 34.35	-16 4.5	2.356	3.366	1.8	20.9
6 10	16 26.56	-10 57.6	2.041	3.028	5.4	20.7	6 10	16 26.21	-16 8.3	2.365	3.361	3.9	21.1
6 20	16 19.61	-10 36.7	2.078	3.023	8.5	20.9	6 20	16 18.74	-16 15.9	2.402	3.357	7.0	21.3
6 30	16 14.10	-10 26.9	2.139	3.019	11.5	21.1	6 30	16 12.56	-16 28.1	2.464	3.352	9.9	21.4
7 10	16 10.49	-10 28.1	2.221	3.015	14.1	21.2	7 10	16 8.15	-16 45.3	2.549	3.348	12.4	21.6
278796	2008 <i>SN</i> ₂₁₈		5 31.4 252°28	1°7/30.9	18		501314	2013 <i>WV</i> ₉₈		5 31.4 242°87	0°3/31.5	18	
5 1	16 57.91	-17 56.0	1.872	2.761	12.0	21.0	5 1	16 59.88	-21 49.5	1.797	2.684	12.5	20.8
5 11	16 51.74	-17 45.2	1.798	2.753	8.5	20.8	5 11	16 53.26	-22 12.0	1.726	2.680	8.9	20.5
5 21	16 43.62	-17 34.2	1.747	2.744	4.6	20.5	5 21	16 44.49	-22 32.4	1.679	2.676	4.7	20.3
5 31	16 34.36	-17 24.1	1.723	2.735	1.7	20.3	5 31	16 34.43	-22 49.7	1.659	2.672	0.4	19.9
6 10	16 24.98	-17 16.5	1.727	2.726	4.7	20.5	6 10	16 24.24	-23 3.9	1.665	2.668	4.3	20.2
6 20	16 16.50	-17 13.2	1.757	2.717	8.7	20.7	6 20	16 15.02	-23 15.9	1.699	2.664	8.5	20.5
6 30	16 9.79	-17 15.9	1.811	2.708	12.4	20.9	6 30	16 7.75	-23 27.6	1.756	2.660	12.4	20.7
7 10	16 5.42	-17 25.5	1.885	2.699	15.5	21.1	7 10	16 3.05	-23 41.2	1.835	2.656	15.6	20.9
111546	2001 <i>YY</i> ₁₃₅		5 31.4 146°34	1°5/30.8	18		507766	2013 <i>YK</i> ₁₀₂		5 31.4 137°98	1°3/30.9	17	
5 1	16 55.24	-18 8.1	2.549	3.431	9.5	20.7	5 1	16 56.95	-19 30.3	2.026	2.913	11.3	21.7
5 11	16 49.36	-17 45.3	2.485	3.437	6.6	20.6	5 11	16 50.85	-19 7.0	1.962	2.917	7.9	21.4
5 21	16 42.17	-17 21.7	2.447	3.443	3.6	20.4	5 21	16 43.06	-18 41.7	1.923	2.920	4.2	21.2
5 31	16 34.30	-16 58.9	2.437	3.449	1.5	20.2	5 31	16 34.38	-18 16.0	1.911	2.924	1.3	21.0
6 10	16 26.48	-16 38.4	2.456	3.454	3.7	20.4	6 10	16 25.73	-17 52.0	1.927	2.927	4.2	21.2
6 20	16 19.38	-16 21.8	2.503	3.459	6.7	20.6	6 20	16 18.01	-17 32.0	1.969	2.930	7.9	21.5
6 30	16 13.59	-16 10.8	2.576	3.464	9.5	20.8	6 30	16 11.94	-17 18.2	2.037	2.933	11.3	21.7
7 10	16 9.51	-16 6.1	2.671	3.468	11.9	21.0	7 10	16 8.01	-17 11.7	2.125	2.936	14.1	21.9
152157	2005 <i>NF</i> ₁₁		5 31.4 351°50	1°1/31.8	17		387112	2012 <i>TW</i> ₁₅₃		5 31.4 170°48	1°8/30.7	18	
5 1	16 57.86	-25 51.0	1.334	2.233	15.1	19.3	5 1	16 56.82	-17 47.5	2.128	3.013	10.9	21.5
5 11	16 52.27	-25 32.0	1.271	2.230	10.8	19.0	5 11	16 50.70	-17 23.0	2.061	3.015	7.7	21.3
5 21	16 44.06	-25 3.1	1.230	2.228	5.9	18.8	5 21	16 42.98	-16 57.7	2.020	3.016	4.2	21.1
5 31	16 34.37	-24 25.1	1.212	2.226	1.2	18.4	5 31	16 34.38	-16 33.6	2.007	3.018	1.8	20.9
6 10	16 24.69	-23 41.4	1.219	2.224	5.1	18.7	6 10	16 25.80	-16 12.5	2.021	3.019	4.4	21.1
6 20	16 16.38	-22 56.8	1.251	2.223	10.1	19.0	6 20	16 18.08	-15 56.5	2.062	3.019	7.9	21.3
6 30	16 10.58	-22 16.7	1.303	2.223	14.7	19.2	6 30	16 11.93	-15 47.3	2.129	3.020	11.1	21.5
7 10	16 7.90	-21 45.3	1.375	2.223	18.5	19.5	7 10	16 7.81	-15 45.9	2.216	3.020	13.8	21.7
247765	2003 <i>QU</i> ₄₀		5 31.4 292°93	5°1/1.8	17		162102	1998 <i>QV</i> ₉₅		5 31.4 250°76	1°3/31.9	18	
5 1	17 1.20	-33 13.1	1.377	2.258	15.9	19.9	5 1	16 58.76	-27 3.5	2.383	3.254	10.4	20.3
5 11	16 55.02	-33 30.7	1.299	2.242	12.1	19.7	5 11	16 52.17	-26 50.1	2.289	3.234	7.5	20.1
5 21	16 45.73	-33 32.5	1.241	2.226	8.1	19.4	5 21	16 43.82	-26 29.1	2.220	3.213	4.2	19.8
5 31	16 34.45	-33 14.9	1.207	2.210	5.2	19.2	5 31	16 34.42	-26 0.6	2.179	3.191	1.3	19.6
6 10	16 22.85	-32 38.1	1.197	2.195	6.8	19.2	6 10	16 24.86	-25 25.9	2.168	3.169	3.6	19.7
6 20	16 12.62	-31 46.5	1.211	2.179	11.0	19.4	6 20	16 16.03	-24 47.6	2.184	3.147	7.1	19.9
6 30	16 5.17	-30 47.7	1.247	2.164	15.4	19.6	6 30	16 8.72	-24 9.3	2.227	3.123	10.4	20.1
7 10	16 1.32	-29 49.8	1.301	2.148	19.3	19.8	7 10	16 3.49	-23 34.2	2.291	3.099	13.3	20.2
120690	1997 <i>EE</i> ₉		5 31.4 289°07	7°1/2.1	18		352532	2008 <i>CD</i> ₁₅₆					

EPHEMERIDES

5 31.4

5 31.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
83787	2001 <i>TU</i> ₂₀₃		5 31.4 349°32	3°5/30.7	18		273805	2007 <i>FU</i> ₂₆		5 31.4 280°19	1°9/31.9	17	
5 1	16 56.41	-12 17.2	1.763	2.654	12.5	18.6	5 1	16 59.37	-26 49.3	1.715	2.599	13.1	21.0
5 11	16 50.72	-12 19.3	1.698	2.651	9.1	18.4	5 11	16 53.17	-26 56.1	1.634	2.585	9.5	20.8
5 21	16 43.11	-12 27.3	1.656	2.648	5.5	18.2	5 21	16 44.60	-26 55.1	1.576	2.570	5.4	20.5
5 31	16 34.39	-12 42.7	1.639	2.645	3.5	18.0	5 31	16 34.58	-26 45.2	1.544	2.556	1.9	20.2
6 10	16 25.60	-13 6.1	1.649	2.643	5.7	18.2	6 10	16 24.32	-26 27.3	1.539	2.541	4.6	20.4
6 20	16 17.73	-13 37.6	1.685	2.641	9.4	18.4	6 20	16 15.07	-26 4.0	1.559	2.526	9.0	20.6
6 30	16 11.63	-14 16.7	1.744	2.640	12.9	18.6	6 30	16 7.90	-25 39.5	1.602	2.512	13.0	20.8
7 10	16 7.88	-15 2.6	1.824	2.639	15.9	18.8	7 10	16 3.49	-25 17.8	1.666	2.497	16.5	21.0
501092	2013 <i>SM</i> ₇₂		5 31.4 268°54	4°5/29.9	17		475177	2005 <i>US</i> ₄₇₁		5 31.4 220°29	1°5/1.1	18	
5 1	16 57.77	-12 41.2	1.649	2.541	13.2	21.7	5 1	16 56.56	-27 17.0	2.740	3.609	9.3	21.9
5 11	16 51.83	-11 57.3	1.575	2.528	9.6	21.4	5 11	16 50.44	-27 22.2	2.659	3.602	6.7	21.7
5 21	16 43.76	-11 16.4	1.524	2.514	6.1	21.2	5 21	16 42.88	-27 21.7	2.603	3.595	3.8	21.5
5 31	16 34.43	-10 42.4	1.499	2.501	4.5	21.1	5 31	16 34.50	-27 15.1	2.576	3.587	1.5	21.3
6 10	16 24.95	-10 18.7	1.499	2.487	6.9	21.2	6 10	16 26.05	-27 3.2	2.578	3.579	3.2	21.4
6 20	16 16.43	-10 7.9	1.525	2.474	10.8	21.4	6 20	16 18.25	-26 47.3	2.608	3.570	6.2	21.6
6 30	16 9.83	-10 11.2	1.573	2.460	14.5	21.6	6 30	16 11.75	-26 29.8	2.665	3.561	8.9	21.8
7 10	16 5.75	-10 28.2	1.640	2.446	17.8	21.7	7 10	16 7.02	-26 13.1	2.744	3.552	11.3	21.9
514882	2008 <i>KQ</i> ₁₆		5 31.4 75°58	2°9/29.6	18		476480	2008 <i>FD</i> ₄₄		5 31.4 47°24	5°2/2.3	16	
5 1	16 48.71	-7 12.3	4.246	5.113	6.3	21.2	5 1	16 59.12	-36 56.3	2.165	3.016	12.1	20.9
5 11	16 44.48	-7 0.7	4.185	5.119	4.8	21.1	5 11	16 52.64	-37 25.9	2.100	3.020	9.5	20.7
5 21	16 39.55	-6 53.3	4.151	5.125	3.4	21.0	5 21	16 44.16	-37 42.2	2.058	3.025	6.9	20.6
5 31	16 34.27	-6 51.2	4.145	5.131	2.9	20.9	5 31	16 34.56	-37 43.0	2.041	3.030	5.2	20.5
6 10	16 28.99	-6 55.0	4.168	5.137	3.7	21.0	6 10	16 24.94	-37 28.2	2.052	3.034	5.9	20.5
6 20	16 24.09	-7 4.9	4.219	5.144	5.2	21.1	6 20	16 16.34	-37 0.4	2.088	3.039	8.2	20.7
6 30	16 19.86	-7 21.0	4.296	5.150	6.7	21.2	6 30	16 9.66	-36 23.9	2.149	3.044	10.8	20.9
7 10	16 16.57	-7 42.9	4.396	5.156	8.1	21.3	7 10	16 5.42	-35 43.8	2.232	3.049	13.3	21.0
18676	Zdeňkaplavcová		5 31.4 168°36	0°4/31.3	18		129228	2005 <i>OM</i> ₂₃		5 31.4 67°14	0°7/31.1	18	
5 1	16 59.27	-20 58.6	1.926	2.811	11.9	19.1	5 1	16 55.98	-21 43.1	2.069	2.956	11.1	20.0
5 11	16 52.62	-20 59.8	1.860	2.813	8.3	18.9	5 11	16 50.18	-21 9.0	2.007	2.961	7.8	19.8
5 21	16 44.07	-20 58.6	1.818	2.815	4.4	18.6	5 21	16 42.76	-20 30.8	1.968	2.966	4.0	19.6
5 31	16 34.46	-20 55.2	1.803	2.817	0.4	18.3	5 31	16 34.50	-19 50.5	1.958	2.971	0.7	19.3
6 10	16 24.82	-20 50.8	1.816	2.818	4.1	18.6	6 10	16 26.32	-19 10.6	1.974	2.976	3.9	19.6
6 20	16 16.16	-20 46.9	1.856	2.819	8.1	18.9	6 20	16 19.05	-18 34.1	2.018	2.981	7.6	19.8
6 30	16 9.30	-20 45.6	1.920	2.820	11.7	19.1	6 30	16 13.41	-18 3.8	2.087	2.986	10.9	20.1
7 10	16 4.80	-20 48.8	2.005	2.820	14.7	19.3	7 10	16 9.84	-17 41.4	2.177	2.991	13.7	20.3
471075	2009 <i>WW</i> ₅₄		5 31.4 150°50	6°1/28.0	17		73342	Guyunusa		5 31.4 346°69	12°3/29.5	18	
5 1	16 57.80	-9 50.7	1.834	2.717	12.5	21.4	5 1	17 7.90	-39 30.5	1.285	2.146	18.2	17.3
5 11	16 51.45	-8 5.8	1.777	2.721	9.4	21.2	5 11	17 1.15	-42 41.0	1.219	2.133	15.3	17.1
5 21	16 43.39	-6 25.0	1.746	2.725	6.8	21.1	5 21	16 49.84	-45 40.3	1.174	2.121	13.0	16.9
5 31	16 34.46	-4 54.6	1.742	2.728	6.2	21.1	5 31	16 34.84	-48 12.4	1.154	2.111	12.3	16.9
6 10	16 25.64	-3 40.3	1.765	2.731	8.2	21.2	6 10	16 18.21	-50 4.9	1.157	2.103	13.6	16.9
6 20	16 17.84	-2 45.7	1.814	2.734	11.1	21.4	6 20	16 2.62	-51 14.4	1.182	2.095	16.2	17.0
6 30	16 11.79	-2 12.1	1.885	2.736	14.1	21.6	6 30	15 50.68	-51 46.6	1.225	2.090	19.3	17.2
7 10	16 7.95	-1 58.4	1.975	2.738	16.6	21.8	7 10	15 44.00	-51 53.5	1.284	2.086	22.0	17.4
183962	2004 <i>DM</i> ₆₂		5 31.4 174°03	5°9/1.7	16		65007	2002 <i>AG</i> ₈₁		5 31.4 196°42	2°6/30.3	18	
5 1	17 8.66	-38 2.9	2.331	3.160	12.1	20.3	5 1	16 55.18	-14 28.8	2.511	3.392	9.6	20.1
5 11	16 59.43	-39 9.8	2.259	3.165	9.6	20.1	5 11	16 49.42	-14 1.5	2.440	3.390	6.9	19.9
5 21	16 47.79	-40 3.7	2.213	3.168	7.2	20.0	5 21	16 42.32	-13 35.9	2.396	3.388	4.1	19.7
5 31	16 34.66	-40 40.0	2.194	3.171	5.9	19.9	5 31	16 34.49	-13 13.5	2.379	3.385	2.6	19.6
6 10	16 21.27	-40 56.9	2.204	3.172	6.6	19.9	6 10	16 26.65	-12 56.4	2.392	3.382	4.5	19.7
6 20	16 8.89	-40 55.7	2.241	3.173	8.7	20.1	6 20	16 19.49	-12 45.8	2.431	3.379	7.3	19.9
6 30	15 58.58	-40 40.5	2.304	3.173	11.2	20.2	6 30	16 13.60	-12 42.8	2.496	3.376	10.1	20.1
7 10	15 51.05	-40 17.4	2.390	3.172	13.5	20.4	7 10	16 9.43	-12 47.9	2.583	3.372	12.5	20.2
170009	Subbarao		5 31.4 215°11	1°7/31.9	17		510476	2011 <i>WK</i> ₁₀₀		5 31.4 226°34	4°0/29.8	18	
5 1	16 59.06	-26 16.3	2.203	3.078	11.0	20.9	5 1	16 54.78	-9 30.4	2.503	3.379	9.8	21.2
5 11	16 52.47	-26 38.7	2.128	3.074	7.9	20.7	5 11	16 49.16	-9 4.4	2.431	3.373	7.3	21.0
5 21	16 44.04	-26 55.8	2.078	3.070	4.5	20.5	5 21	16 42.20	-8 43.4	2.385	3.367	5.0	20.8
5 31	16 34.53	-27 6.2	2.055	3.066	1.7	20.3	5 31	16 34.49	-8 29.6	2.366	3.360	4.0	20.8
6 10	16 24.91	-27 10.2	2.061	3.062	3.9	20.5	6 10	16 26.73	-8 24.5	2.375	3.353	5.5	20.9
6 20	16 16.10	-27 9.0	2.094	3.057	7.3	20.7	6 20	16 19.62	-8 29.1	2.410	3.346	8.0	21.0
6 30	16 8.95	-27 5.0	2.152	3.052	10.6	20.9	6 30	16 13.74	-8 43.5	2.471	3.339	10.6	21.2
7 10	16 4.00	-27 1.0	2.232	3.047	13.4	21.0	7 10	16 9.55	-9 7.2	2.553	3.331	12.9	21.3
130586	2000 <i>RG</i> ₇₈		5 31.4 275°10	0°3/31.5	18		12284	Pohl		5 31.4 18°28	7°9/27.9	18	
5 1	17 1.94	-21 22.1	1.445	2.339	14.6	20.2	5 1	16 52.85	-4 13.0	1.696	2.580	13.2	17.1
5 11	16 55.33	-21 47.9	1.366	2.323	10.4	19.9	5 11	16 48.12	-2 52.7	1.651	2.587	10.5	16.9
5 21	16 45.91	-22 12.6	1.308	2.306	5.6	19.5	5 21	16 41.71	-1 44.0	1.629	2.595	8.4	16.8
5 31	16 34.63	-22 34.5	1.276	2.290	0.4	19.1	5 31	16 34.46	-0 52.5	1.632	2.604	8.0	16.8
6 10	16 22.92	-22 53.3	1.270	2.273	5.2	19.4	6 10	16 27.33	-0 22.1	1.659	2.613	9.5	16.9
6 20	16 12.27	-23 9.7	1.288	2.257	10.4	19.7	6 20	16 21.17	-0 13.8	1.709	2.623	12.0	17.1
6 30	16 4.00	-23 25.9	1.329	2.240	15.1	19.9	6 30	16 16.70	-0 26.7	1.779	2.634	14.6	17.3
7 10	15 58.96	-23 44.6	1.389	2.223	19.0	20.1	7 10	16 14.35	-0 57.6	1.868	2.645	17.0	17.5
203286	2001 <i>SH</i> ₂		5 31.4 209°62	0°0/31.4	16		177858	2005 <i>QX</i>		5 31.4 246°86	4°5/29.8	17	
5 1	17 2.27	-22 52.9											

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5 31.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
356347	2010 <i>LF</i> ₃₁		5 31.4 134°06	1°8/	1.4	18	234096	1999 <i>TT</i> ₂₂₇		5 31.5 215°41	0°5/	31.3	18
5 1	16 56.65	-29 23.1	2.419	3.289	10.3	20.7	5 1	16 57.94	-21 30.5	2.097	2.981	11.1	21.1
5 11	16 50.55	-29 4.2	2.350	3.292	7.5	20.5	5 11	16 51.65	-21 13.3	2.023	2.976	7.8	20.9
5 21	16 42.93	-28 36.7	2.306	3.296	4.4	20.3	5 21	16 43.61	-20 52.7	1.974	2.971	4.1	20.6
5 31	16 34.53	-28 0.9	2.289	3.299	1.9	20.1	5 31	16 34.58	-20 29.4	1.952	2.965	0.5	20.3
6 10	16 26.20	-27 18.7	2.302	3.303	3.5	20.2	6 10	16 25.51	-20 5.5	1.958	2.960	3.9	20.6
6 20	16 18.72	-26 33.1	2.342	3.306	6.6	20.4	6 20	16 17.29	-19 43.1	1.991	2.954	7.7	20.8
6 30	16 12.77	-25 47.6	2.408	3.309	9.6	20.6	6 30	16 10.71	-19 24.9	2.050	2.947	11.1	21.0
7 10	16 8.78	-25 5.5	2.496	3.312	12.1	20.8	7 10	16 6.29	-19 12.8	2.129	2.941	14.1	21.2
37044	Papymarcel		5 31.4 263°64	0°1/	31.4	18	251337	2007 <i>EZ</i> ₁₈		5 31.5 276°74	5°8/	29.2	18
5 1	16 56.08	-22 14.9	2.392	3.273	10.0	19.4	5 1	16 54.82	-4 35.5	2.328	3.197	10.7	20.7
5 11	16 50.27	-22 4.3	2.306	3.258	7.1	19.2	5 11	16 49.33	-4 6.1	2.250	3.181	8.4	20.6
5 21	16 42.87	-21 50.3	2.245	3.242	3.7	19.0	5 21	16 42.36	-3 45.4	2.197	3.165	6.4	20.4
5 31	16 34.54	-21 33.3	2.213	3.227	0.2	18.6	5 31	16 34.53	-3 36.3	2.170	3.149	5.8	20.3
6 10	16 26.09	-21 14.7	2.209	3.211	3.5	18.9	6 10	16 26.59	-3 40.7	2.170	3.133	7.1	20.4
6 20	16 18.31	-20 56.5	2.232	3.195	7.0	19.1	6 20	16 19.27	-3 59.1	2.196	3.117	9.4	20.5
6 30	16 11.93	-20 40.7	2.281	3.179	10.2	19.3	6 30	16 13.24	-4 31.0	2.246	3.100	12.0	20.6
7 10	16 7.46	-20 29.4	2.352	3.162	12.9	19.4	7 10	16 8.99	-5 14.8	2.316	3.084	14.3	20.8
214253	2005 <i>EO</i> ₃₀₆		5 31.4 59°74	1°3/	31.1	17	346819	2009 <i>CQ</i> ₅₇		5 31.5 284°70	1°0/	31.1	18
5 1	16 59.74	-20 3.3	1.345	2.245	15.0	20.3	5 1	16 56.71	-19 43.1	2.005	2.893	11.4	21.1
5 11	16 53.44	-19 43.4	1.293	2.253	10.5	20.1	5 11	16 50.83	-19 32.6	1.936	2.891	8.0	20.9
5 21	16 44.68	-19 20.8	1.262	2.261	5.5	19.8	5 21	16 43.19	-19 20.5	1.892	2.889	4.2	20.7
5 31	16 34.61	-18 57.3	1.256	2.269	1.3	19.6	5 31	16 34.57	-19 7.8	1.874	2.887	1.0	20.4
6 10	16 24.66	-18 35.7	1.275	2.277	5.4	19.9	6 10	16 25.92	-18 55.9	1.884	2.886	4.1	20.7
6 20	16 16.13	-18 19.2	1.318	2.285	10.3	20.2	6 20	16 18.14	-18 46.7	1.921	2.884	7.9	20.9
6 30	16 10.04	-18 10.4	1.383	2.294	14.6	20.4	6 30	16 12.02	-18 42.1	1.983	2.882	11.4	21.1
7 10	16 6.93	-18 10.9	1.467	2.303	18.1	20.7	7 10	16 8.06	-18 43.5	2.065	2.881	14.3	21.3
235378	2003 <i>WT</i> ₄₈		5 31.4 251°73	1°8/	30.8	17	333334	2001 <i>RB</i> ₁₀		5 31.5 297°48	8°8/	26.3	17
5 1	16 57.00	-18 7.5	2.063	2.949	11.1	20.8	5 1	16 59.74	-14 12.2	1.016	1.928	17.6	19.9
5 11	16 51.03	-17 41.0	1.984	2.938	7.9	20.6	5 11	16 54.06	-10 59.7	0.951	1.913	13.2	19.6
5 21	16 43.31	-17 13.3	1.930	2.927	4.3	20.3	5 21	16 45.27	-7 36.7	0.910	1.898	9.5	19.3
5 31	16 34.56	-16 46.0	1.904	2.915	1.8	20.1	5 31	16 34.67	-4 20.2	0.892	1.883	9.4	19.2
6 10	16 25.72	-16 21.4	1.905	2.903	4.5	20.3	6 10	16 23.97	-1 28.7	0.898	1.869	13.1	19.4
6 20	16 17.68	-16 1.8	1.933	2.891	8.2	20.5	6 20	16 14.85	+ 0 44.1	0.925	1.855	18.0	19.6
6 30	16 11.23	-15 49.3	1.986	2.879	11.7	20.7	6 30	16 8.59	+ 2 12.3	0.970	1.841	22.6	19.8
7 10	16 6.91	-15 45.1	2.059	2.866	14.6	20.9	7 10	16 5.90	+ 2 58.1	1.028	1.828	26.4	20.1
30059	2000 <i>ET</i> ₅₉		5 31.5 322°17	2°1/	30.9	17	37567	1989 <i>SC</i> ₃		5 31.5 97°21	4°9/	1.2	18
5 1	16 59.14	-18 55.7	1.210	2.116	15.8	19.4	5 1	17 5.63	-30 49.6	1.471	2.347	15.4	17.5
5 11	16 53.38	-18 28.2	1.147	2.110	11.2	19.1	5 11	16 57.86	-31 54.4	1.415	2.357	11.5	17.3
5 21	16 44.83	-17 58.4	1.106	2.105	6.1	18.8	5 21	16 47.17	-32 48.2	1.382	2.366	7.5	17.1
5 31	16 34.63	-17 29.0	1.088	2.101	2.1	18.5	5 31	16 34.76	-33 26.0	1.374	2.376	4.9	17.0
6 10	16 24.34	-17 3.6	1.094	2.096	6.2	18.8	6 10	16 22.27	-33 45.9	1.391	2.385	6.6	17.1
6 20	16 15.45	-16 45.7	1.123	2.092	11.5	19.1	6 20	16 11.27	-33 49.8	1.434	2.394	10.3	17.3
6 30	16 9.18	-16 38.5	1.173	2.088	16.3	19.3	6 30	16 3.03	-33 42.8	1.499	2.403	14.1	17.6
7 10	16 6.19	-16 43.3	1.240	2.085	20.3	19.6	7 10	15 58.22	-33 31.1	1.584	2.412	17.4	17.8
108257	2001 <i>HN</i> ₅₀		5 31.5 302°50	0°3/	31.4	18	176511	2001 <i>YK</i> ₅₉		5 31.5 145°68	1°5/	1.1	18
5 1	16 58.29	-20 7.8	1.781	2.671	12.4	18.6	5 1	16 57.21	-27 16.6	2.503	3.375	10.0	21.0
5 11	16 52.32	-20 28.9	1.699	2.655	8.8	18.4	5 11	16 50.92	-27 15.6	2.436	3.381	7.1	20.8
5 21	16 44.16	-20 49.7	1.641	2.639	4.7	18.1	5 21	16 43.15	-27 8.2	2.395	3.387	4.0	20.6
5 31	16 34.61	-21 9.8	1.609	2.623	0.4	17.7	5 31	16 34.58	-26 54.4	2.381	3.393	1.5	20.4
6 10	16 24.77	-21 29.1	1.604	2.607	4.4	18.0	6 10	16 26.05	-26 35.2	2.397	3.398	3.4	20.6
6 20	16 15.78	-21 48.0	1.626	2.592	8.8	18.2	6 20	16 18.31	-26 12.6	2.440	3.403	6.4	20.8
6 30	16 8.63	-22 8.1	1.671	2.577	12.8	18.4	6 30	16 12.03	-25 49.2	2.509	3.408	9.3	21.0
7 10	16 4.04	-22 30.9	1.736	2.562	16.2	18.6	7 10	16 7.66	-25 27.8	2.601	3.412	11.8	21.2
355744	2008 <i>HB</i> ₂₃		5 31.5 137°67	3°1/	29.9	17	298757	2004 <i>HW</i> ₄₇		5 31.5 91°97	3°0/	1.8	17
5 1	16 54.42	-13 30.2	2.364	3.248	10.0	21.7	5 1	16 58.16	-31 59.3	2.129	2.996	11.7	20.1
5 11	16 48.93	-12 51.8	2.301	3.250	7.2	21.5	5 11	16 51.81	-31 50.4	2.063	3.001	8.6	19.9
5 21	16 42.08	-12 15.6	2.262	3.252	4.4	21.3	5 21	16 43.68	-31 30.2	2.021	3.006	5.4	19.8
5 31	16 34.51	-11 43.9	2.251	3.254	3.2	21.2	5 31	16 34.60	-30 58.4	2.005	3.011	3.0	19.6
6 10	16 26.98	-11 19.1	2.269	3.256	5.0	21.4	6 10	16 25.61	-30 16.9	2.018	3.016	4.3	19.7
6 20	16 20.17	-11 2.8	2.313	3.258	7.8	21.5	6 20	16 17.63	-29 28.9	2.057	3.021	7.4	19.9
6 30	16 14.70	-10 56.0	2.382	3.260	10.5	21.7	6 30	16 11.45	-28 39.1	2.122	3.026	10.5	20.1
7 10	16 10.99	-10 58.8	2.472	3.262	12.9	21.9	7 10	16 7.55	-27 51.5	2.208	3.030	13.3	20.3
410297	2007 <i>TJ</i> ₃₁₇		5 31.5 196°70	0°2/	31.4	14 C	318620	2005 <i>JJ</i> ₁₁₀		5 31.5 329°10	1°6/	31.0	17
5 1	17 2.14	-21 30.3	1.899	2.779	12.2	23.0	5 1	16 55.51	-20 17.3	1.167	2.079	15.8	20.4
5 11	16 54.78	-21 31.7	1.825	2.777	8.6	22.8	5 11	16 51.06	-19 51.3	1.096	2.062	11.2	20.1
5 21	16 45.32	-21 29.9	1.777	2.773	4.6	22.6	5 21	16 43.74	-19 20.9	1.045	2.045	6.0	19.7
5 31	16 34.66	-21 25.1	1.755	2.769	0.3	22.2	5 31	16 34.62	-18 48.6	1.016	2.030	1.6	19.4
6 10	16 23.90	-21 18.1	1.762	2.764	4.2	22.5	6 10	16 25.21	-18 18.2	1.011	2.015	6.1	19.6
6 20	16 14.12	-21 10.9	1.796	2.758	8.4	22.8	6 20	16 17.06	-17 53.9	1.028	2.001	11.7	19.9
6 30	16 6.26	-21 5.9	1.855	2.752	12.2	23.0	6 30	16 11.49	-17 39.7	1.064	1.988	16.8	20.1
7 10	16 0.91	-21 5.4	1.935	2.745	15.3	23.2	7 10	16 9.29	-17 37.9	1.118	1.977	21.1	20.4
440346	2004 <i>TN</i> ₂₄₄		5 31.5 259°10	3°1/	1.7	18	300905	2008 <i>BZ</i> <					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
504959	2011 <i>FX</i> ₈₇		5 31.5	55°15'	9.7°/26.1	18	174088	2002 <i>GE</i> ₁₃₀		5 31.5	253°05'	2.9°/30.4	18
5 1	16 56.15	-0 46.3	1.724	2.593	13.8	20.6	5 1	16 59.60	-17 25.7	1.590	2.483	13.5	20.5
5 11	16 50.45	+1 8.5	1.674	2.594	11.5	20.5	5 11	16 53.28	-16 38.1	1.513	2.470	9.6	20.2
5 21	16 42.99	+2 50.3	1.648	2.595	9.9	20.4	5 21	16 44.67	-15 48.1	1.460	2.457	5.4	19.9
5 31	16 34.58	+4 11.4	1.647	2.596	9.9	20.4	5 31	16 34.69	-14 59.2	1.433	2.443	2.9	19.7
6 10	16 26.24	+5 6.6	1.670	2.597	11.4	20.5	6 10	16 24.56	-14 15.5	1.433	2.429	6.0	19.9
6 20	16 18.89	+5 34.0	1.716	2.598	13.7	20.6	6 20	16 15.48	-13 40.8	1.457	2.415	10.4	20.1
6 30	16 13.30	+5 34.7	1.781	2.599	16.1	20.8	6 30	16 8.48	-13 18.3	1.505	2.400	14.6	20.3
7 10	16 9.94	+5 12.1	1.864	2.600	18.3	21.0	7 10	16 4.19	-13 9.4	1.571	2.385	18.1	20.5
380070	2013 <i>SG</i> ₂₈		5 31.5	173°61'	5.0°/ 2.1	17	58759	1998 <i>FZ</i> ₁₈		5 31.5	178°43'	2.7°/ 1.8	18
5 1	17 3.31	-36 15.4	2.194	3.040	12.2	21.6	5 1	16 58.41	-32 23.5	2.833	3.687	9.5	19.6
5 11	16 55.62	-36 49.6	2.123	3.043	9.4	21.4	5 11	16 51.71	-32 26.3	2.758	3.689	7.1	19.5
5 21	16 45.78	-37 10.9	2.077	3.045	6.7	21.2	5 21	16 43.56	-32 20.1	2.709	3.690	4.5	19.3
5 31	16 34.71	-37 16.4	2.057	3.047	5.1	21.1	5 31	16 34.63	-32 4.5	2.688	3.691	2.8	19.2
6 10	16 23.57	-37 6.0	2.065	3.048	5.8	21.2	6 10	16 25.72	-31 40.1	2.696	3.691	3.7	19.2
6 20	16 13.47	-36 41.8	2.100	3.049	8.3	21.3	6 20	16 17.54	-31 9.0	2.733	3.690	6.2	19.4
6 30	16 5.36	-36 8.3	2.160	3.049	11.0	21.5	6 30	16 10.77	-30 34.3	2.797	3.690	8.7	19.6
7 10	15 59.83	-35 31.0	2.242	3.048	13.6	21.7	7 10	16 5.83	-29 59.2	2.883	3.688	10.9	19.7
276983	2004 <i>WM</i> ₇		5 31.5	281°00'	2.7°/ 1.0	17	518620	2008 <i>CJ</i> ₂₁₈		5 31.5	133°57'	4.3°/ 2.2	16
5 1	17 0.39	-27 44.0	1.780	2.660	13.0	20.2	5 1	16 58.98	-35 27.3	2.303	3.156	11.4	21.2
5 11	16 53.92	-28 18.0	1.700	2.647	9.5	20.0	5 11	16 52.45	-35 46.8	2.234	3.159	8.8	21.0
5 21	16 45.06	-28 45.2	1.643	2.635	5.6	19.7	5 21	16 44.06	-35 54.4	2.189	3.161	6.1	20.9
5 31	16 34.68	-29 3.2	1.613	2.622	2.8	19.5	5 31	16 34.66	-35 48.3	2.170	3.164	4.4	20.8
6 10	16 24.02	-29 11.4	1.610	2.609	4.9	19.6	6 10	16 25.23	-35 29.0	2.179	3.166	5.2	20.8
6 20	16 14.31	-29 11.1	1.632	2.597	8.9	19.8	6 20	16 16.76	-34 58.8	2.215	3.169	7.6	21.0
6 30	16 6.65	-29 5.4	1.678	2.584	12.7	20.0	6 30	16 10.04	-34 21.7	2.275	3.171	10.3	21.1
7 10	16 1.76	-28 58.6	1.745	2.572	16.1	20.2	7 10	16 5.60	-33 42.3	2.358	3.173	12.7	21.3
388572	2007 <i>RX</i> ₃₃		5 31.5	246°41'	5.0°/ 2.0	18	35010	1981 <i>DV</i> ₁		5 31.5	352°87'	5.0°/ 2.6	18
5 1	17 1.78	-36 53.3	2.421	3.263	11.3	21.4	5 1	16 58.44	-36 47.8	2.070	2.924	12.5	19.2
5 11	16 54.58	-37 27.6	2.330	3.246	8.9	21.2	5 11	16 52.25	-36 58.8	1.999	2.923	9.7	19.0
5 21	16 45.29	-37 50.3	2.263	3.228	6.5	21.0	5 21	16 44.02	-36 55.5	1.951	2.922	6.9	18.8
5 31	16 34.69	-37 58.4	2.224	3.210	5.0	20.9	5 31	16 34.65	-36 36.0	1.929	2.921	5.1	18.7
6 10	16 23.82	-37 51.1	2.212	3.192	5.7	20.9	6 10	16 25.29	-36 1.3	1.933	2.920	5.7	18.7
6 20	16 13.74	-37 29.8	2.227	3.173	8.0	21.0	6 20	16 16.99	-35 14.5	1.964	2.920	8.2	18.9
6 30	16 5.39	-36 58.4	2.267	3.153	10.7	21.1	6 30	16 10.64	-34 20.6	2.018	2.920	11.1	19.0
7 10	15 59.44	-36 21.9	2.330	3.133	13.3	21.3	7 10	16 6.78	-33 25.3	2.095	2.919	13.8	19.2
277689	2006 <i>BQ</i> ₂₇₇		5 31.5	278°79'	5.6°/29.4	17	308003	2004 <i>RM</i> ₁₀₈		5 31.5	214°60'	0.0°/31.5	17
5 1	16 56.42	-8 55.1	1.795	2.681	12.6	20.5	5 1	17 2.10	-24 5.3	1.669	2.554	13.4	21.6
5 11	16 50.75	-8 10.3	1.725	2.671	9.5	20.2	5 11	16 54.99	-23 40.1	1.594	2.547	9.5	21.4
5 21	16 43.22	-7 32.2	1.679	2.661	6.7	20.1	5 21	16 45.53	-23 7.3	1.544	2.540	5.1	21.1
5 31	16 34.60	-7 4.4	1.658	2.650	5.6	20.0	5 31	16 34.73	-22 27.9	1.519	2.533	0.3	20.7
6 10	16 25.89	-6 50.2	1.663	2.640	7.5	20.1	6 10	16 23.85	-21 44.6	1.522	2.525	4.6	21.0
6 20	16 18.05	-6 51.1	1.693	2.630	10.7	20.2	6 20	16 14.12	-21 1.5	1.551	2.516	9.2	21.3
6 30	16 11.92	-7 7.2	1.745	2.620	13.9	20.4	6 30	16 6.57	-20 23.3	1.603	2.506	13.4	21.5
7 10	16 8.06	-7 37.3	1.817	2.610	16.8	20.6	7 10	16 1.82	-19 53.4	1.676	2.496	16.9	21.7
237529	2000 <i>SM</i> ₂₈₂		5 31.5	245°89'	2.9°/30.0	17	402838	2007 <i>HY</i> ₂₄		5 31.5	49°99'	2.7°/30.9	16
5 1	16 55.04	-14 27.5	2.418	3.301	9.9	20.5	5 1	17 0.54	-16 55.9	1.135	2.042	16.6	21.4
5 11	16 49.43	-13 46.6	2.340	3.290	7.1	20.3	5 11	16 54.30	-16 42.5	1.088	2.050	11.7	21.2
5 21	16 42.40	-13 6.7	2.288	3.279	4.3	20.1	5 21	16 45.26	-16 30.9	1.060	2.059	6.4	20.9
5 31	16 34.56	-12 29.9	2.264	3.268	2.9	19.9	5 31	16 34.72	-16 23.1	1.056	2.068	2.7	20.7
6 10	16 26.68	-11 59.0	2.267	3.256	4.8	20.1	6 10	16 24.30	-16 21.3	1.076	2.077	6.5	20.9
6 20	16 19.45	-11 35.8	2.299	3.245	7.8	20.2	6 20	16 15.50	-16 27.4	1.118	2.086	11.6	21.2
6 30	16 13.54	-11 21.9	2.355	3.233	10.7	20.4	6 30	16 9.44	-16 42.8	1.181	2.096	16.2	21.5
7 10	16 9.39	-11 17.8	2.432	3.221	13.2	20.5	7 10	16 6.72	-17 7.4	1.261	2.106	20.0	21.8
136902	1998 <i>HL</i> ₅₅		5 31.5	74°70'	4.2°/ 1.7	18	141159	2001 <i>XF</i> ₁₂₂		5 31.5	267°77'	0.9°/31.1	18
5 1	17 0.70	-33 15.2	2.114	2.974	12.0	19.7	5 1	16 56.05	-20 37.7	2.172	3.057	10.7	20.6
5 11	16 53.67	-33 54.5	2.061	2.992	9.0	19.6	5 11	16 50.33	-20 15.8	2.094	3.048	7.5	20.4
5 21	16 44.69	-34 22.7	2.031	3.009	6.1	19.4	5 21	16 42.95	-19 50.9	2.040	3.038	4.0	20.1
5 31	16 34.67	-34 37.7	2.028	3.026	4.2	19.3	5 31	16 34.62	-19 24.4	2.015	3.028	0.9	19.9
6 10	16 24.70	-34 39.4	2.053	3.043	5.2	19.4	6 10	16 26.23	-18 58.2	2.017	3.018	3.9	20.1
6 20	16 15.80	-34 29.7	2.104	3.060	7.8	19.6	6 20	16 18.60	-18 34.7	2.046	3.008	7.6	20.3
6 30	16 8.82	-34 12.5	2.181	3.076	10.7	19.8	6 30	16 12.50	-18 16.1	2.100	2.998	10.9	20.5
7 10	16 4.27	-33 51.9	2.278	3.093	13.2	20.0	7 10	16 8.42	-18 4.3	2.176	2.988	13.8	20.7
282631	2005 <i>SV</i> ₁		5 31.5	274°22'	0.9°/31.0	18	498045	2007 <i>OC</i> ₁₁		5 31.5	324°17'	0.9°/31.7	17
5 1	16 55.43	-21 8.1	2.234	3.119	10.5	20.3	5 1	16 56.77	-24 50.9	1.079	1.990	16.8	21.1
5 11	16 49.82	-20 33.5	2.157	3.111	7.3	20.1	5 11	16 52.27	-24 39.9	1.007	1.972	12.1	20.7
5 21	16 42.64	-19 55.0	2.105	3.102	3.9	19.8	5 21	16 44.54	-24 19.2	0.954	1.954	6.6	20.4
5 31	16 34.58	-19 14.4	2.081	3.094	0.9	19.6	5 31	16 34.71	-23 48.8	0.924	1.937	1.0	19.9
6 10	16 26.50	-18 34.2	2.085	3.086	3.9	19.8	6 10	16 24.51	-23 11.7	0.915	1.921	5.9	20.2
6 20	16 19.18	-17 57.2	2.116	3.077	7.4	20.0	6 20	16 15.71	-22 32.9	0.929	1.906	11.9	20.5
6 30	16 13.35	-17 26.2	2.172	3.068	10.7	20.2	6 30	16 9.81	-21 59.0	0.961	1.893	17.4	20.7
7 10	16 9.47	-17 3.0	2.250	3.060	13.5	20.4	7 10	16 7.67	-21 34.7	1.010	1.880	22.0	21.0
89605	2001 <i>XT</i> ₁₇₂		5 31.5	20°50'	2.5°/ 1.8	18	367734	2010 <i>UV</i>					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
502480	2015 <i>BC</i> ₃₅₃		5 31.5 161°75	6°0/29.5	17		107973	2001 <i>FS</i> ₁₂₈		5 31.5 331°93	8°1/27.9	18	
5 1	16 58.79	- 5 12.2	2.092	2.960	11.8	23.0	5 1	16 51.93	-11 34.5	1.053	1.972	16.5	17.5
5 11	16 52.09	- 4 38.5	2.034	2.966	9.1	22.8	5 11	16 48.63	- 9 44.8	0.984	1.947	12.5	17.2
5 21	16 43.80	- 4 14.2	2.001	2.971	6.8	22.7	5 21	16 42.53	- 7 54.9	0.934	1.924	9.0	16.9
5 31	16 34.67	- 4 2.2	1.995	2.976	6.0	22.6	5 31	16 34.65	- 6 15.3	0.906	1.902	8.3	16.8
6 10	16 25.60	- 4 4.5	2.016	2.980	7.4	22.7	6 10	16 26.48	- 4 56.6	0.899	1.881	11.3	16.8
6 20	16 17.39	- 4 21.2	2.062	2.984	9.9	22.9	6 20	16 19.51	- 4 6.2	0.911	1.862	15.9	17.0
6 30	16 10.75	- 4 51.5	2.133	2.987	12.5	23.1	6 30	16 15.03	- 3 47.6	0.941	1.844	20.4	17.2
7 10	16 6.14	- 5 33.4	2.224	2.990	14.9	23.2	7 10	16 13.86	- 3 58.7	0.986	1.829	24.4	17.4
181878	1999 <i>OT</i>		5 31.5 270°56	6°0/28.8	18		289608	<i>Wanli</i>		5 31.5 53°90	1°0/31.7	17	
5 1	16 54.54	- 4 6.1	2.340	3.208	10.7	20.6	5 1	17 1.17	-23 36.4	1.331	2.228	15.3	20.3
5 11	16 49.13	- 3 26.1	2.265	3.194	8.5	20.4	5 11	16 54.62	-23 54.0	1.279	2.237	10.8	20.1
5 21	16 42.29	- 2 54.8	2.214	3.179	6.6	20.2	5 21	16 45.43	-24 6.3	1.248	2.246	5.8	19.8
5 31	16 34.61	- 2 35.2	2.190	3.165	6.1	20.2	5 31	16 34.78	-24 12.3	1.242	2.255	1.1	19.5
6 10	16 26.84	- 2 29.7	2.192	3.150	7.4	20.2	6 10	16 24.19	-24 12.8	1.261	2.265	5.1	19.8
6 20	16 19.70	- 2 39.1	2.220	3.135	9.6	20.3	6 20	16 15.08	-24 9.9	1.304	2.275	10.0	20.1
6 30	16 13.85	- 3 3.1	2.272	3.120	12.1	20.5	6 30	16 8.55	-24 7.3	1.369	2.285	14.3	20.4
7 10	16 9.75	- 3 40.0	2.343	3.105	14.3	20.6	7 10	16 5.19	-24 8.1	1.453	2.295	17.9	20.6
12574	<i>LONEOS</i>		5 31.5 149°78	4°4/30.2	18		237419	1998 <i>WY</i> ₃₄		5 31.5 271°53	1°4/31.9	17	
5 1	16 58.10	- 9 45.4	2.005	2.884	11.7	17.5	5 1	16 58.47	-25 41.2	1.957	2.839	11.9	20.7
5 11	16 51.70	- 9 29.0	1.944	2.888	8.7	17.3	5 11	16 52.31	-25 49.1	1.878	2.828	8.5	20.5
5 21	16 43.64	- 9 19.2	1.908	2.893	5.7	17.2	5 21	16 44.13	-25 51.0	1.823	2.818	4.7	20.3
5 31	16 34.68	- 9 18.0	1.899	2.897	4.4	17.1	5 31	16 34.74	-25 46.4	1.795	2.807	1.4	20.0
6 10	16 25.73	- 9 26.7	1.917	2.901	6.1	17.2	6 10	16 25.19	-25 35.8	1.794	2.796	4.1	20.2
6 20	16 17.66	- 9 45.8	1.962	2.904	9.1	17.4	6 20	16 16.52	-25 21.4	1.819	2.786	8.0	20.4
6 30	16 11.22	-10 14.9	2.031	2.908	12.1	17.6	6 30	16 9.64	-25 6.1	1.869	2.775	11.7	20.6
7 10	16 6.88	-10 52.8	2.120	2.911	14.8	17.8	7 10	16 5.18	-24 53.2	1.940	2.764	14.8	20.8
278897	2008 <i>TO</i> ₁₀₈		5 31.5 324°61	7°4/ 1.3	17		202720	2007 <i>HF</i> ₃₅		5 31.5 305°40	2°5/ 1.1	18	
5 1	17 2.43	-35 51.7	1.509	2.377	15.5	20.7	5 1	16 58.92	-27 20.5	1.572	2.460	13.9	20.5
5 11	16 56.07	-37 16.7	1.435	2.365	12.3	20.5	5 11	16 53.23	-27 39.3	1.484	2.436	10.2	20.2
5 21	16 46.53	-38 29.2	1.383	2.353	9.2	20.3	5 21	16 44.89	-27 50.5	1.419	2.412	6.0	19.9
5 31	16 34.82	-39 22.1	1.355	2.342	7.5	20.1	5 31	16 34.80	-27 52.0	1.378	2.389	2.5	19.7
6 10	16 22.55	-39 51.5	1.351	2.331	8.6	20.2	6 10	16 24.27	-27 43.7	1.363	2.365	5.1	19.8
6 20	16 11.46	-39 58.1	1.371	2.321	11.6	20.3	6 20	16 14.70	-27 27.9	1.372	2.342	9.7	20.0
6 30	16 3.09	-39 46.9	1.412	2.311	15.1	20.5	6 30	16 7.33	-27 8.6	1.405	2.319	14.1	20.2
7 10	15 58.38	-39 25.4	1.472	2.302	18.3	20.7	7 10	16 3.01	-26 50.6	1.456	2.297	18.0	20.4
219510	2001 <i>MU</i> ₁₆		5 31.5 287°69	5°2/ 1.7	18		76459	2000 <i>FE</i> ₄₁		5 31.5 190°21	6°1/28.4	18	
5 1	17 2.05	-33 29.7	1.618	2.489	14.5	20.0	5 1	16 55.48	- 4 8.3	2.385	3.250	10.6	19.4
5 11	16 55.58	-34 2.5	1.527	2.464	11.2	19.8	5 11	16 49.69	- 3 11.6	2.322	3.249	8.4	19.3
5 21	16 46.18	-34 22.6	1.458	2.439	7.6	19.5	5 21	16 42.55	- 2 23.1	2.285	3.247	6.6	19.2
5 31	16 34.80	-34 25.8	1.414	2.414	5.2	19.3	5 31	16 34.68	- 1 46.4	2.275	3.246	6.2	19.1
6 10	16 22.90	-34 10.7	1.395	2.388	6.6	19.3	6 10	16 26.82	- 1 24.1	2.292	3.244	7.4	19.2
6 20	16 12.03	-33 39.8	1.400	2.362	10.4	19.5	6 20	16 19.67	- 1 17.3	2.334	3.241	9.6	19.3
6 30	16 3.57	-32 58.7	1.429	2.336	14.4	19.6	6 30	16 13.82	- 1 25.8	2.400	3.238	11.9	19.5
7 10	15 58.43	-32 14.5	1.477	2.310	18.1	19.8	7 10	16 9.70	- 1 48.1	2.486	3.235	13.9	19.6
62889	2000 <i>UZ</i> ₉₆		5 31.5 310°64	3°2/ 1.3	17		130147	1999 <i>XF</i> ₁₉₉		5 31.5 156°29	2°9/ 1.3	18	
5 1	16 58.92	-29 25.0	1.559	2.445	14.1	18.6	5 1	17 1.71	-29 37.7	2.286	3.149	11.1	20.4
5 11	16 53.13	-29 42.4	1.482	2.431	10.4	18.3	5 11	16 54.35	-30 14.5	2.218	3.155	8.2	20.2
5 21	16 44.74	-29 49.5	1.426	2.417	6.4	18.1	5 21	16 45.12	-30 43.9	2.176	3.161	5.1	20.0
5 31	16 34.74	-29 44.3	1.395	2.403	3.3	17.9	5 31	16 34.81	-31 3.6	2.161	3.166	2.9	19.9
6 10	16 24.47	-29 27.1	1.389	2.390	5.4	17.9	6 10	16 24.42	-31 13.4	2.175	3.171	4.3	20.0
6 20	16 15.32	-29 0.8	1.408	2.377	9.6	18.2	6 20	16 14.91	-31 14.3	2.217	3.175	7.3	20.2
6 30	16 8.47	-28 30.4	1.450	2.365	13.8	18.4	6 30	16 7.14	-31 9.2	2.285	3.179	10.3	20.4
7 10	16 4.66	-28 1.0	1.511	2.353	17.4	18.6	7 10	16 1.64	-31 1.7	2.375	3.182	12.9	20.6
299799	2006 <i>SA</i> ₁₀₂		5 31.5 255°01	1°7/30.8	17		67862	2000 <i>WU</i> ₂₂		5 31.5 169°49	3°1/30.8	17	
5 1	16 56.13	-18 15.7	2.186	3.072	10.6	21.4	5 1	17 0.98	-14 41.5	1.569	2.460	13.8	19.2
5 11	16 50.36	-17 48.8	2.109	3.062	7.5	21.2	5 11	16 54.18	-14 31.3	1.508	2.462	9.9	19.0
5 21	16 42.98	-17 20.7	2.057	3.053	4.1	21.0	5 21	16 45.13	-14 24.5	1.469	2.463	5.7	18.7
5 31	16 34.66	-16 52.9	2.032	3.043	1.7	20.8	5 31	16 34.81	-14 22.6	1.456	2.465	3.1	18.6
6 10	16 26.28	-16 27.8	2.035	3.033	4.3	20.9	6 10	16 24.47	-14 27.3	1.469	2.466	5.9	18.8
6 20	16 18.65	-16 7.3	2.065	3.023	7.8	21.1	6 20	16 15.27	-14 39.7	1.508	2.466	10.1	19.0
6 30	16 12.51	-15 53.5	2.120	3.013	11.1	21.3	6 30	16 8.21	-15 0.4	1.570	2.467	14.0	19.2
7 10	16 8.36	-15 47.6	2.196	3.002	13.9	21.5	7 10	16 3.86	-15 29.3	1.651	2.467	17.3	19.5
431789	2008 <i>PM</i> ₈		5 31.5 319°89	7°5/ 3.5	18		292844	2006 <i>UY</i> ₃₀₀		5 31.5 315°81	0°8/31.2	16	
5 1	17 0.56	-40 35.3	1.494	2.350	16.3	20.3	5 1	16 56.40	-20 20.0	1.851	2.743	12.0	21.2
5 11	16 54.59	-40 42.9	1.416	2.336	13.1	20.1	5 11	16 50.84	-20 9.5	1.778	2.734	8.4	20.9
5 21	16 45.59	-40 27.3	1.358	2.322	9.9	19.8	5 21	16 43.35	-19 56.8	1.728	2.726	4.5	20.7
5 31	16 34.78	-39 44.6	1.323	2.309	7.7	19.7	5 31	16 34.73	-19 42.8	1.705	2.718	0.8	20.4
6 10	16 23.86	-38 35.4	1.312	2.296	8.2	19.7	6 10	16 26.01	-19 29.1	1.708	2.710	4.3	20.6
6 20	16 14.44	-37 5.7	1.324	2.284	11.1	19.8	6 20	16 18.19	-19 18.0	1.738	2.703	8.4	20.8
6 30	16 7.83	-35 24.9	1.359	2.272	14.6	20.0	6 30	16 12.13	-19 11.5	1.791	2.696	12.1	21.0
7 10	16 4.73	-33 43.2	1.414	2.261	18.1	20.2	7 10	16 8.40	-19 11.4	1.865	2.689	15.3	21.2
93428	2000 <i>ST</i> ₃₁₆		5 31.5 337°80	7°2/ 3.5	18		416554	2004 <i>CB</i> ₂₆		5			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
157384	2004 <i>TS</i> ₁₇₂		5 31.5 333°89	3°3/ 1.8 18			86234	1999 <i>TY</i> ₁₁₁		5 31.5 178°55	1°5/ 1.2 18		
5 1	16 56.57	-31 27.8	1.348	2.240	15.5	18.6	5 1	16 56.58	-27 41.7	2.769	3.637	9.2	19.8
5 11	16 51.68	-31 2.5	1.273	2.225	11.5	18.3	5 11	16 50.48	-27 40.6	2.696	3.638	6.6	19.7
5 21	16 44.05	-30 19.8	1.219	2.211	7.1	18.0	5 21	16 43.00	-27 33.4	2.648	3.639	3.8	19.5
5 31	16 34.78	-29 19.6	1.189	2.198	3.4	17.7	5 31	16 34.78	-27 20.0	2.629	3.640	1.5	19.3
6 10	16 25.39	-28 5.3	1.182	2.186	5.5	17.8	6 10	16 26.54	-27 1.3	2.639	3.640	3.1	19.4
6 20	16 17.35	-26 43.8	1.200	2.174	10.2	18.0	6 20	16 19.00	-26 39.1	2.677	3.639	6.0	19.6
6 30	16 11.85	-25 23.3	1.239	2.164	14.8	18.3	6 30	16 12.77	-26 15.7	2.742	3.639	8.7	19.8
7 10	16 9.58	-24 11.1	1.297	2.155	18.8	18.5	7 10	16 8.28	-25 53.7	2.829	3.638	11.0	20.0
259749	2003 <i>YR</i> ₁₇₁		5 31.5 197°45	2°5/ 1.3 17			54637	2000 <i>SL</i> ₁₄₁		5 31.5 149°14	1°5/30.7 18		
5 1	17 2.69	-29 16.0	1.958	2.828	12.4	22.2	5 1	16 55.57	-18 43.5	2.803	3.681	8.8	19.1
5 11	16 55.27	-29 23.7	1.883	2.825	9.1	21.9	5 11	16 49.60	-18 1.9	2.739	3.689	6.2	18.9
5 21	16 45.69	-29 21.8	1.833	2.822	5.4	21.7	5 21	16 42.47	-17 18.7	2.702	3.697	3.3	18.7
5 31	16 34.86	-29 9.3	1.809	2.818	2.6	21.5	5 31	16 34.75	-16 35.8	2.694	3.705	1.5	18.6
6 10	16 23.94	-28 46.7	1.813	2.813	4.5	21.6	6 10	16 27.11	-15 55.3	2.715	3.712	3.5	18.8
6 20	16 14.08	-28 17.0	1.844	2.807	8.2	21.8	6 20	16 20.15	-15 19.5	2.765	3.718	6.3	18.9
6 30	16 6.21	-27 44.5	1.901	2.801	11.7	22.0	6 30	16 14.41	-14 50.1	2.842	3.724	8.9	19.1
7 10	16 0.94	-27 13.4	1.978	2.794	14.8	22.2	7 10	16 10.23	-14 28.2	2.941	3.730	11.1	19.3
278960	2008 <i>UE</i> ₉₄		5 31.5 283°44	0°5/31.4 18			267195	2000 <i>RL</i> ₈₈		5 31.5 331°86	14°5/22.9 17		
5 1	17 1.18	-19 29.7	1.882	2.766	12.2	20.9	5 1	16 55.37	+10 54.8	1.626	2.456	16.5	19.8
5 11	16 54.50	-19 54.0	1.784	2.736	8.7	20.6	5 11	16 50.13	+13 3.8	1.584	2.451	15.1	19.7
5 21	16 45.48	-20 19.2	1.710	2.706	4.7	20.3	5 21	16 42.98	+14 48.2	1.563	2.448	14.5	19.6
5 31	16 34.86	-20 44.4	1.662	2.676	0.5	19.9	5 31	16 34.77	+15 59.6	1.563	2.444	14.8	19.6
6 10	16 23.73	-21 9.2	1.643	2.645	4.5	20.2	6 10	16 26.58	+16 33.3	1.583	2.441	15.9	19.7
6 20	16 13.24	-21 33.8	1.651	2.614	8.9	20.4	6 20	16 19.38	+16 29.3	1.622	2.437	17.5	19.8
6 30	16 4.51	-21 59.4	1.684	2.583	13.1	20.6	6 30	16 14.01	+15 51.0	1.676	2.435	19.3	19.9
7 10	15 58.33	-22 27.4	1.737	2.551	16.6	20.7	7 10	16 10.99	+14 44.8	1.745	2.432	21.0	20.1
306806	2001 <i>QQ</i> ₈₆		5 31.5 243°89	4°5/ 2.4 18			135919	2002 <i>TO</i> ₁₅₈		5 31.5 226°18	5°7/29.6 18		
5 1	17 2.02	-35 15.4	1.843	2.703	13.5	20.0	5 1	16 56.27	- 5 48.5	2.096	2.969	11.6	20.1
5 11	16 55.02	-35 9.1	1.763	2.693	10.3	19.7	5 11	16 50.45	- 5 19.3	2.031	2.966	8.9	19.9
5 21	16 45.63	-34 46.6	1.705	2.683	7.0	19.5	5 21	16 43.06	- 4 58.9	1.990	2.963	6.6	19.8
5 31	16 34.87	-34 6.4	1.673	2.673	4.6	19.4	5 31	16 34.79	- 4 50.4	1.976	2.960	5.8	19.7
6 10	16 24.05	-33 10.0	1.668	2.662	5.6	19.4	6 10	16 26.48	- 4 55.5	1.988	2.957	7.2	19.8
6 20	16 14.42	-32 1.9	1.689	2.651	8.9	19.6	6 20	16 18.96	- 5 14.7	2.026	2.953	9.7	19.9
6 30	16 7.02	-30 48.7	1.735	2.640	12.4	19.7	6 30	16 12.91	- 5 47.1	2.087	2.950	12.4	20.1
7 10	16 2.46	-29 37.3	1.802	2.628	15.6	19.9	7 10	16 8.83	- 6 31.0	2.169	2.946	14.9	20.3
201689	2003 <i>UO</i> ₁₁₆		5 31.5 147°96	1°6/30.9 18			317643	2003 <i>FH</i> ₁		5 31.5 186°11	11°1/31.8 16		
5 1	16 57.66	-18 5.6	2.046	2.932	11.3	20.4	5 1	17 45.29	-34 20.9	0.838	1.694	25.8	20.1
5 11	16 51.46	-17 50.2	1.982	2.936	7.9	20.2	5 11	17 29.96	-36 55.1	0.776	1.701	20.3	19.8
5 21	16 43.58	-17 34.3	1.943	2.939	4.3	20.0	5 21	17 6.25	-39 14.6	0.732	1.704	14.5	19.5
5 31	16 34.79	-17 19.2	1.931	2.942	1.6	19.8	5 31	16 35.97	-40 49.4	0.712	1.703	11.1	19.3
6 10	16 26.01	-17 6.7	1.946	2.946	4.3	20.0	6 10	16 3.98	-41 19.3	0.717	1.697	13.7	19.4
6 20	16 18.12	-16 58.4	1.989	2.949	7.9	20.2	6 20	15 35.92	-40 49.2	0.745	1.687	19.6	19.7
6 30	16 11.86	-16 55.8	2.056	2.951	11.2	20.4	6 30	15 15.57	-39 45.1	0.793	1.672	25.6	20.0
7 10	16 7.72	-17 0.1	2.145	2.954	14.1	20.6	7 10	15 3.77	-38 34.7	0.853	1.653	30.7	20.3
71508	2000 <i>CL</i> ₃₅		5 31.5 151°18	2°3/30.5 18			280286	2003 <i>GU</i> ₁		5 31.5 66°18	1°5/31.2 17		
5 1	16 54.28	-14 54.8	2.558	3.440	9.4	19.4	5 1	17 0.17	-18 2.3	1.544	2.437	13.8	20.2
5 11	16 48.85	-14 32.7	2.492	3.442	6.7	19.3	5 11	16 53.56	-18 8.4	1.494	2.451	9.7	20.0
5 21	16 42.13	-14 12.1	2.451	3.444	3.9	19.1	5 21	16 44.78	-18 15.2	1.468	2.465	5.2	19.7
5 31	16 34.72	-13 54.6	2.438	3.445	2.4	19.0	5 31	16 34.87	-18 22.9	1.467	2.479	1.5	19.5
6 10	16 27.32	-13 41.8	2.454	3.447	4.2	19.1	6 10	16 25.08	-18 32.5	1.492	2.494	4.9	19.8
6 20	16 20.58	-13 34.9	2.497	3.448	7.0	19.3	6 20	16 16.54	-18 44.9	1.543	2.508	9.3	20.1
6 30	16 15.08	-13 34.8	2.565	3.449	9.7	19.5	6 30	16 10.18	-19 1.5	1.617	2.522	13.1	20.3
7 10	16 11.23	-13 41.8	2.656	3.451	12.0	19.6	7 10	16 6.50	-19 23.0	1.711	2.537	16.3	20.6
303827	2005 <i>SU</i> ₁₁₉		5 31.5 228°91	0°9/30.9 18			373547	2001 <i>US</i> ₁₁₃		5 31.5 230°40	0°6/31.7 17		
5 1	16 56.18	-21 13.1	2.645	3.523	9.3	20.6	5 1	17 0.59	-23 45.0	2.102	2.979	11.4	22.7
5 11	16 50.19	-20 27.3	2.563	3.513	6.5	20.4	5 11	16 53.72	-23 46.9	2.018	2.967	8.1	22.5
5 21	16 42.84	-19 37.4	2.507	3.503	3.4	20.2	5 21	16 44.90	-23 44.1	1.959	2.954	4.4	22.2
5 31	16 34.76	-18 45.3	2.480	3.492	0.9	19.9	5 31	16 34.89	-23 36.5	1.927	2.941	0.6	21.9
6 10	16 26.67	-17 53.4	2.482	3.481	3.5	20.1	6 10	16 24.70	-23 24.8	1.924	2.927	3.9	22.1
6 20	16 19.24	-17 4.8	2.513	3.470	6.7	20.3	6 20	16 15.33	-23 11.0	1.949	2.912	7.8	22.3
6 30	16 13.10	-16 22.0	2.571	3.458	9.5	20.5	6 30	16 7.66	-22 57.8	1.998	2.896	11.4	22.5
7 10	16 8.67	-15 46.9	2.651	3.446	12.0	20.6	7 10	16 2.30	-22 47.9	2.070	2.881	14.4	22.7
478259	2011 <i>UP</i> ₃₉₄		5 31.5 168°79	3°3/ 2.3 18			66875	1999 <i>VY</i> ₅₂		5 31.5 160°52	0°3/31.7 18		
5 1	16 58.59	-34 40.8	2.603	3.453	10.3	21.8	5 1	16 58.57	-24 41.4	2.897	3.765	8.9	19.6
5 11	16 51.96	-34 29.9	2.530	3.456	7.8	21.7	5 11	16 51.69	-24 14.0	2.829	3.774	6.3	19.4
5 21	16 43.78	-34 7.5	2.482	3.458	5.2	21.5	5 21	16 43.57	-23 41.6	2.788	3.782	3.3	19.2
5 31	16 34.81	-33 33.3	2.461	3.460	3.4	21.4	5 31	16 34.83	-23 5.0	2.776	3.790	0.4	19.0
6 10	16 25.90	-32 48.6	2.469	3.462	4.2	21.4	6 10	16 26.17	-22 26.0	2.794	3.796	2.9	19.2
6 20	16 17.87	-31 56.5	2.505	3.463	6.6	21.6	6 20	16 18.25	-21 46.9	2.843	3.802	5.8	19.4
6 30	16 11.39	-31 0.9	2.568	3.464	9.2	21.8	6 30	16 11.62	-21 10.2	2.918	3.807	8.5	19.6
7 10	16 6.91	-30 6.0	2.654	3.465	11.6	21.9	7 10	16 6.67	-20 38.2	3.017	3.811	10.7	19.8
255909	2006 <i>SN</i> ₃₃₉		5 31.5 228°90	0°3/31.6 17			485151	201					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
67163	2000 <i>AU</i> ₂₂₈		5 31.5 156°57	5°2/29.2	18		179360	2001 <i>XH</i> ₁₈₇		5 31.5 130°78	0°8/31.2	17	
5 1	16 56.72	-5 47.1	2.510	3.375	10.2	19.8	5 1	16 56.30	-20 6.0	2.468	3.349	9.8	21.3
5 11	16 50.48	-5 6.6	2.453	3.383	7.8	19.7	5 11	16 50.31	-19 52.4	2.405	3.357	6.8	21.1
5 21	16 42.97	-4 33.4	2.421	3.390	5.9	19.5	5 21	16 42.94	-19 37.0	2.368	3.365	3.6	20.9
5 31	16 34.80	-4 10.3	2.417	3.397	5.2	19.5	5 31	16 34.85	-19 20.7	2.359	3.372	0.8	20.7
6 10	16 26.69	-3 59.0	2.441	3.403	6.5	19.6	6 10	16 26.80	-19 5.1	2.379	3.380	3.5	21.0
6 20	16 19.29	-4 0.4	2.492	3.409	8.6	19.7	6 20	16 19.51	-18 51.6	2.427	3.387	6.6	21.2
6 30	16 13.19	-4 14.1	2.567	3.414	10.9	19.9	6 30	16 13.59	-18 42.0	2.500	3.394	9.5	21.4
7 10	16 8.77	-4 38.9	2.663	3.419	13.0	20.1	7 10	16 9.46	-18 37.4	2.596	3.401	12.0	21.6
310455	2000 <i>QR</i> ₄₃		5 31.5 246°70	5°0/29.9	17		193640	2001 <i>DJ</i> ₁₅		5 31.5 51°89	7°1/29.6	18	
5 1	17 0.09	-11 19.9	1.619	2.507	13.6	21.0	5 1	16 57.18	-3 26.3	1.816	2.688	13.1	19.4
5 11	16 53.65	-10 37.8	1.544	2.493	10.1	20.8	5 11	16 51.25	-2 56.9	1.759	2.690	10.3	19.2
5 21	16 44.96	-10 0.2	1.491	2.479	6.6	20.5	5 21	16 43.54	-2 40.0	1.726	2.693	7.9	19.1
5 31	16 34.91	-9 31.0	1.465	2.465	5.1	20.4	5 31	16 34.88	-2 39.1	1.717	2.695	7.1	19.1
6 10	16 24.66	-9 13.7	1.464	2.450	7.4	20.5	6 10	16 26.23	-2 55.7	1.734	2.697	8.5	19.1
6 20	16 15.38	-9 10.4	1.488	2.434	11.2	20.7	6 20	16 18.51	-3 29.6	1.775	2.700	11.1	19.3
6 30	16 8.08	-9 12.0	1.535	2.418	15.0	20.9	6 30	16 12.49	-4 18.9	1.839	2.702	13.9	19.5
7 10	16 3.42	-9 47.8	1.600	2.402	18.4	21.1	7 10	16 8.68	-5 20.5	1.923	2.704	16.4	19.7
258973	2002 <i>ST</i> ₄₁		5 31.5 48°11	20°3/	1.1	18	519707	2013 <i>AH</i> ₁₈₈		5 31.5 156°94	2°3/30.5	17	
5 1	17 21.36	-53 29.6	1.047	1.859	24.7	20.0	5 1	16 55.41	-15 17.3	2.550	3.430	9.5	22.0
5 11	17 13.18	-56 53.3	1.006	1.862	22.6	19.8	5 11	16 49.65	-14 54.2	2.485	3.434	6.7	21.9
5 21	16 57.45	-59 42.0	0.980	1.865	21.0	19.7	5 21	16 42.59	-14 32.2	2.445	3.438	3.9	21.7
5 31	16 55.56	-61 34.2	0.972	1.869	20.3	19.7	5 31	16 34.84	-14 13.0	2.434	3.442	2.3	21.6
6 10	16 11.71	-62 18.0	0.981	1.872	20.7	19.7	6 10	16 27.11	-13 58.3	2.452	3.445	4.2	21.7
6 20	15 51.20	-61 57.3	1.006	1.876	22.0	19.8	6 20	16 20.06	-13 49.2	2.497	3.448	7.0	21.9
6 30	15 37.98	-60 49.9	1.046	1.880	23.9	20.0	6 30	16 14.29	-13 46.9	2.568	3.451	9.7	22.1
7 10	15 33.18	-59 17.1	1.097	1.884	25.9	20.2	7 10	16 10.20	-13 51.7	2.661	3.453	12.1	22.2
340569	2006 <i>KK</i> ₁₁₅		5 31.5 258°31	1°6/30.9	18		161640	2006 <i>BJ</i> ₅		5 31.5 355°41	4°6/30.8	17	
5 1	16 57.46	-18 21.2	2.147	3.032	10.9	21.4	5 1	16 55.29	-13 38.2	0.925	1.847	17.9	19.1
5 11	16 51.44	-17 57.7	2.062	3.015	7.7	21.2	5 11	16 51.23	-13 27.2	0.873	1.841	13.0	18.8
5 21	16 43.67	-17 32.7	2.002	2.998	4.2	21.0	5 21	16 44.02	-13 24.0	0.838	1.836	7.8	18.5
5 31	16 34.85	-17 7.8	1.969	2.980	1.6	20.8	5 31	16 34.92	-13 32.0	0.824	1.833	4.6	18.3
6 10	16 25.88	-16 44.9	1.964	2.962	4.4	20.9	6 10	16 25.68	-13 53.3	0.831	1.832	8.0	18.5
6 20	16 17.64	-16 26.4	1.986	2.944	8.0	21.1	6 20	16 17.99	-14 28.1	0.858	1.832	13.3	18.8
6 30	16 10.92	-16 14.2	2.033	2.926	11.5	21.3	6 30	16 13.22	-15 15.4	0.903	1.833	18.4	19.0
7 10	16 6.28	-16 9.8	2.102	2.907	14.4	21.4	7 10	16 12.12	-16 12.9	0.964	1.836	22.6	19.3
147100	2002 <i>TV</i> ₂₉		5 31.5 251°34	1°1/31.9	18		512970	2017 <i>TU</i> ₇		5 31.5 289°38	4°9/29.7	17	
5 1	17 1.25	-25 25.3	1.831	2.711	12.6	20.9	5 1	16 59.21	-13 45.9	1.420	2.317	14.5	21.5
5 11	16 54.49	-25 24.4	1.744	2.694	9.1	20.7	5 11	16 53.49	-12 47.2	1.332	2.288	10.7	21.2
5 21	16 45.43	-25 16.6	1.682	2.677	5.0	20.4	5 21	16 45.12	-11 48.4	1.266	2.258	6.8	20.9
5 31	16 34.94	-25 1.4	1.646	2.659	1.2	20.1	5 31	16 34.99	-10 54.4	1.225	2.228	5.0	20.7
6 10	16 24.20	-24 39.9	1.638	2.641	4.4	20.3	6 10	16 24.40	-10 10.6	1.208	2.198	7.9	20.8
6 20	16 14.37	-24 14.7	1.656	2.622	8.7	20.5	6 20	16 14.72	-9 41.7	1.216	2.168	12.5	20.9
6 30	16 6.52	-23 49.7	1.699	2.603	12.7	20.7	6 30	16 7.20	-9 30.8	1.244	2.137	17.1	21.1
7 10	16 1.32	-23 28.7	1.762	2.583	16.2	20.9	7 10	16 2.68	-9 38.2	1.289	2.107	21.1	21.3
382241	2012 <i>SR</i> ₂₈		5 31.5 170°78	3°7/29.9	18		252789	2002 <i>EA</i> ₁₄₇		5 31.5 34°45	7°1/28.3	18	
5 1	16 56.39	-11 59.7	2.257	3.137	10.6	21.5	5 1	16 53.98	-5 20.1	1.842	2.723	12.5	19.6
5 11	16 50.43	-11 19.0	2.193	3.139	7.7	21.3	5 11	16 48.88	-4 3.9	1.799	2.736	9.8	19.5
5 21	16 43.01	-10 41.5	2.155	3.141	5.0	21.2	5 21	16 42.24	-2 57.9	1.780	2.749	7.6	19.4
5 31	16 34.82	-10 10.0	2.144	3.143	3.8	21.1	5 31	16 34.84	-2 7.0	1.787	2.762	7.1	19.4
6 10	16 26.65	-9 46.8	2.161	3.144	5.5	21.2	6 10	16 27.58	-1 34.5	1.818	2.776	8.6	19.5
6 20	16 19.26	-9 33.6	2.204	3.145	8.4	21.4	6 20	16 21.26	-1 21.6	1.874	2.790	11.0	19.7
6 30	16 13.30	-9 31.2	2.273	3.146	11.2	21.6	6 30	16 16.54	-1 27.7	1.952	2.805	13.6	19.9
7 10	16 9.20	-9 39.3	2.362	3.146	13.6	21.7	7 10	16 13.83	-1 50.4	2.048	2.821	15.8	20.1
406459	2007 <i>TH</i> ₄₃₇		5 31.5 191°40	0°8/31.0	18		468166	2014 <i>WR</i> ₄₀₂		5 31.5 196°29	1°3/31.2	16	
5 1	16 51.72	-18 44.6	3.878	4.754	6.7	22.5	5 1	17 1.69	-18 21.7	1.700	2.587	13.1	21.8
5 11	16 46.78	-18 31.1	3.803	4.752	4.7	22.4	5 11	16 54.71	-18 26.0	1.632	2.586	9.3	21.5
5 21	16 40.98	-18 16.8	3.754	4.750	2.5	22.2	5 21	16 45.51	-18 30.5	1.587	2.584	5.0	21.3
5 31	16 34.72	-18 2.7	3.736	4.748	0.8	22.1	5 31	16 35.01	-18 35.4	1.568	2.581	1.3	21.0
6 10	16 28.46	-17 49.5	3.746	4.745	2.5	22.2	6 10	16 24.41	-18 41.6	1.577	2.578	4.8	21.3
6 20	16 22.61	-17 38.3	3.787	4.742	4.7	22.4	6 20	16 14.86	-18 50.3	1.612	2.575	9.2	21.5
6 30	16 17.57	-17 29.9	3.854	4.739	6.7	22.5	6 30	16 7.35	-19 3.0	1.671	2.571	13.1	21.7
7 10	16 13.65	-17 25.2	3.945	4.736	8.5	22.6	7 10	16 2.48	-19 21.0	1.751	2.567	16.4	21.9
328998	2010 <i>XW</i> ₂₀		5 31.5 98°84	0°2/31.6	17		189362	2008 <i>DC</i> ₈₃		5 31.5 50°24	2°4/	1.4	18
5 1	17 0.50	-23 40.7	1.594	2.483	13.7	21.3	5 1	16 57.73	-28 54.4	2.122	2.996	11.4	20.3
5 11	16 53.83	-23 25.1	1.537	2.492	9.6	21.0	5 11	16 51.65	-29 8.7	2.058	3.002	8.3	20.1
5 21	16 44.97	-23 3.2	1.504	2.501	5.1	20.8	5 21	16 43.78	-29 15.2	2.018	3.007	5.0	19.9
5 31	16 34.94	-22 36.2	1.496	2.510	0.4	20.5	5 31	16 34.93	-29 12.9	2.005	3.013	2.5	19.8
6 10	16 25.02	-22 6.3	1.515	2.519	4.5	20.8	6 10	16 26.07	-29 2.4	2.019	3.019	4.1	19.9
6 20	16 16.38	-21 37.1	1.560	2.527	9.0	21.1	6 20	16 18.14	-28 45.9	2.060	3.025	7.3	20.1
6 30	16 9.93	-21 12.1	1.628	2.536	12.9	21.3	6 30	16 11.93	-28 26.5	2.127	3.031	10.5	20.3
7 10	16 6.21	-20 54.3	1.716	2.544	16.2	21.6	7 10	16 7.94	-28 7.4	2.214	3.038	13.2	20.5
389869	2012 <i>SY</i> ₉		5 31.5 213°82	5°5/	2.7	16	36190	1999 <i>TG</i> ₄₀		5 31.5 3			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
183563	2003 <i>MD</i> ₄		5 31.5 352°37'	2°8/30.7	16		357884	2005 <i>UB</i> ₄₆₇		5 31.5 343°69'	0°8/31.9	18	
5 1	16 53.93	-15 44.9	1.634	2.534	12.8	19.6	5 1	16 56.03	-26 1.9	2.139	3.020	11.0	20.6
5 11	16 49.27	-15 26.3	1.568	2.527	9.1	19.4	5 11	16 50.42	-25 38.2	2.068	3.018	7.8	20.4
5 21	16 42.65	-15 9.6	1.525	2.522	5.2	19.2	5 21	16 43.13	-25 7.3	2.021	3.016	4.3	20.2
5 31	16 34.89	-14 57.1	1.508	2.517	2.8	19.0	5 31	16 34.95	-24 30.2	2.001	3.015	0.9	19.9
6 10	16 27.06	-14 51.0	1.515	2.513	5.5	19.1	6 10	16 26.77	-23 49.2	2.010	3.013	3.6	20.2
6 20	16 20.18	-14 52.8	1.547	2.510	9.5	19.4	6 20	16 19.47	-23 7.2	2.045	3.012	7.2	20.4
6 30	16 15.13	-15 3.7	1.602	2.509	13.2	19.6	6 30	16 13.77	-22 27.8	2.105	3.010	10.5	20.6
7 10	16 12.48	-15 23.6	1.677	2.508	16.4	19.8	7 10	16 10.17	-21 53.9	2.187	3.009	13.4	20.8
89713	2001 <i>YB</i> ₁₁₃		5 31.5 82°02'	9°0/30.8	17		224351	2005 <i>UN</i> ₁₀₉		5 31.5 103°15'	2°9/1.4	18	
5 1	17 1.58	+ 2 24.0	1.682	2.534	15.0	18.7	5 1	17 2.39	-29 6.4	1.820	2.694	13.0	20.4
5 11	16 54.34	+ 2 24.7	1.634	2.546	12.2	18.5	5 11	16 55.11	-29 32.4	1.765	2.708	9.5	20.2
5 21	16 45.18	+ 2 5.5	1.608	2.558	9.9	18.4	5 21	16 45.67	-29 49.2	1.733	2.722	5.7	20.0
5 31	16 35.02	+ 1 23.8	1.607	2.570	9.0	18.4	5 31	16 35.08	-29 55.0	1.727	2.735	3.0	19.9
6 10	16 24.98	+ 0 20.1	1.631	2.581	10.0	18.5	6 10	16 24.54	-29 50.1	1.749	2.748	4.7	20.0
6 20	16 16.08	- 1 2.7	1.680	2.593	12.3	18.6	6 20	16 15.22	-29 37.1	1.797	2.761	8.3	20.3
6 30	16 9.14	- 2 39.9	1.752	2.605	14.9	18.8	6 30	16 8.02	-29 19.7	1.870	2.773	11.7	20.5
7 10	16 4.65	- 4 26.3	1.844	2.617	17.3	19.0	7 10	16 3.49	-29 2.2	1.963	2.786	14.7	20.7
415542	2014 <i>QF</i> ₁₃₉		5 31.5 16°37'	5°3/30.3	17		176487	2001 <i>XW</i> ₂₂₉		5 31.5 133°39'	0°1/31.6	18	
5 1	16 58.19	-13 1.6	1.101	2.011	16.7	21.1	5 1	16 57.00	-22 59.5	2.658	3.534	9.3	22.3
5 11	16 52.80	-12 19.3	1.051	2.013	12.2	20.9	5 11	16 50.75	-22 49.8	2.597	3.545	6.5	22.1
5 21	16 44.66	-11 42.8	1.021	2.016	7.6	20.6	5 21	16 43.19	-22 36.5	2.561	3.557	3.4	21.9
5 31	16 35.00	-11 16.9	1.014	2.019	5.3	20.5	5 31	16 34.95	-22 20.3	2.554	3.568	0.2	21.7
6 10	16 25.39	-11 5.5	1.029	2.023	8.2	20.7	6 10	16 26.78	-22 2.4	2.577	3.579	3.1	21.9
6 20	16 17.28	-11 10.6	1.066	2.028	12.8	20.9	6 20	16 19.35	-21 44.5	2.627	3.589	6.1	22.1
6 30	16 11.82	-11 32.3	1.122	2.033	17.2	21.2	6 30	16 13.24	-21 28.5	2.704	3.599	8.9	22.3
7 10	16 9.61	-12 8.4	1.196	2.039	21.0	21.5	7 10	16 8.87	-21 16.1	2.804	3.609	11.2	22.5
381577	2008 <i>UH</i> ₁₈₃		5 31.5 155°22'	1°5/1.0	18		75268	1999 <i>XN</i> ₁₅		5 31.5 250°04'	2°1/30.9	18	
5 1	17 0.38	-26 13.4	2.324	3.195	10.7	21.7	5 1	17 0.18	-17 45.1	1.731	2.620	12.8	19.5
5 11	16 53.36	-26 30.4	2.257	3.201	7.6	21.5	5 11	16 53.73	-17 22.6	1.651	2.606	9.1	19.3
5 21	16 44.65	-26 41.7	2.216	3.208	4.3	21.3	5 21	16 45.07	-16 59.2	1.595	2.591	5.0	19.0
5 31	16 35.00	-26 46.5	2.203	3.214	1.5	21.2	5 31	16 35.06	-16 36.5	1.564	2.576	2.1	18.8
6 10	16 25.34	-26 45.3	2.218	3.219	3.6	21.3	6 10	16 24.84	-16 17.0	1.561	2.560	5.2	18.9
6 20	16 16.53	-26 39.5	2.262	3.224	6.9	21.5	6 20	16 15.55	-16 3.3	1.584	2.544	9.5	19.2
6 30	16 9.33	-26 31.6	2.332	3.229	10.0	21.7	6 30	16 8.19	-15 57.5	1.630	2.527	13.5	19.4
7 10	16 4.24	-26 24.1	2.424	3.233	12.6	21.9	7 10	16 3.40	-16 1.0	1.696	2.510	17.0	19.5
288399	2004 <i>CZ</i> ₁₂₅		5 31.5 335°56'	0°2/31.6	17		422839	2002 <i>ET</i> ₄₈		5 31.5 57°64'	10°5/27.5	17	
5 1	16 56.03	-22 45.0	1.166	2.077	15.9	20.2	5 1	16 56.34	+ 1 58.4	1.625	2.489	14.8	20.8
5 11	16 51.60	-22 45.1	1.097	2.062	11.4	19.9	5 11	16 50.69	+ 3 25.0	1.588	2.501	12.5	20.6
5 21	16 44.23	-22 40.0	1.047	2.047	6.1	19.5	5 21	16 43.26	+ 4 33.3	1.573	2.513	10.8	20.6
5 31	16 35.00	-22 30.0	1.020	2.034	0.4	19.1	5 31	16 34.96	+ 5 17.0	1.581	2.526	10.6	20.6
6 10	16 25.46	-22 16.8	1.016	2.022	5.5	19.4	6 10	16 26.82	+ 5 33.2	1.613	2.539	11.8	20.7
6 20	16 17.21	-22 3.5	1.034	2.010	11.2	19.7	6 20	16 19.77	+ 5 21.9	1.666	2.552	13.9	20.8
6 30	16 11.60	-21 54.3	1.072	2.001	16.2	19.9	6 30	16 14.56	+ 4 46.0	1.739	2.565	16.1	21.0
7 10	16 9.42	-21 52.1	1.127	1.992	20.5	20.2	7 10	16 11.62	+ 3 50.3	1.829	2.578	18.2	21.2
238721	2005 <i>GC</i> ₆₇		5 31.5 310°59'	0°9/31.8	18		464843	2005 <i>ET</i> ₁₆₇		5 31.5 60°95'	4°7/1.9	17	
5 1	16 57.84	-24 39.3	1.909	2.794	12.0	20.8	5 1	17 3.53	-32 3.5	1.305	2.188	16.5	21.0
5 11	16 51.89	-24 40.5	1.838	2.790	8.5	20.5	5 11	16 56.45	-32 27.5	1.260	2.205	12.3	20.8
5 21	16 44.00	-24 36.3	1.791	2.787	4.6	20.3	5 21	16 46.53	-32 36.1	1.236	2.223	7.8	20.6
5 31	16 34.98	-24 26.5	1.770	2.783	0.9	20.0	5 31	16 35.13	-32 26.8	1.236	2.240	4.8	20.4
6 10	16 25.89	-24 12.3	1.776	2.779	4.0	20.2	6 10	16 23.97	-32 1.0	1.260	2.258	6.3	20.6
6 20	16 17.73	-23 55.9	1.809	2.776	8.0	20.5	6 20	16 14.59	-31 23.6	1.308	2.276	10.3	20.8
6 30	16 11.38	-23 40.2	1.866	2.773	11.6	20.7	6 30	16 8.10	-30 41.5	1.379	2.294	14.3	21.1
7 10	16 7.40	-23 28.0	1.944	2.770	14.7	20.9	7 10	16 5.01	-30 1.3	1.468	2.313	17.7	21.4
261968	2006 <i>PZ</i> ₃₂		5 31.5 321°16'	1°7/31.1	17		65915	1998 <i>FO</i> ₃₄		5 31.5 119°55'	8°7/3.2	18	
5 1	16 56.23	-19 51.7	1.156	2.068	15.9	20.3	5 1	17 7.65	-42 10.2	1.590	2.428	16.4	18.2
5 11	16 51.81	-19 28.7	1.078	2.044	11.4	19.9	5 11	16 59.57	-43 4.1	1.532	2.436	13.4	18.0
5 21	16 44.41	-19 2.0	1.020	2.020	6.2	19.6	5 21	16 48.31	-43 36.3	1.495	2.445	10.5	17.9
5 31	16 35.01	-18 33.6	0.985	1.998	1.7	19.2	5 31	16 35.23	-43 41.1	1.482	2.452	8.8	17.8
6 10	16 25.16	-18 7.2	0.972	1.976	6.3	19.4	6 10	16 22.15	-43 17.5	1.493	2.460	9.2	17.8
6 20	16 16.48	-17 46.9	0.982	1.955	12.1	19.6	6 20	16 10.80	-42 30.0	1.528	2.467	11.4	18.0
6 30	16 10.39	-17 36.8	1.011	1.936	17.4	19.9	6 30	16 2.49	-41 26.9	1.585	2.474	14.3	18.2
7 10	16 7.79	-17 39.0	1.056	1.917	21.9	20.1	7 10	15 57.87	-40 17.6	1.662	2.481	17.0	18.4
507854	2014 <i>HL</i> ₁₀		5 31.5 147°70'	5°7/28.1	18		48056	2001 <i>EF</i> ₄		5 31.5 341°87'	3°8/30.7	18	
5 1	16 54.84	- 4 47.1	2.605	3.469	9.9	21.9	5 1	16 54.83	-15 27.3	1.081	1.997	16.4	18.2
5 11	16 49.18	- 3 37.4	2.550	3.476	7.8	21.8	5 11	16 50.73	-15 5.4	0.918	1.984	11.8	17.8
5 21	16 42.34	- 2 35.0	2.521	3.483	6.1	21.7	5 21	16 43.77	-14 46.9	0.974	1.972	6.9	17.5
5 31	16 34.90	- 1 43.3	2.520	3.489	5.8	21.7	5 31	16 35.01	-14 35.1	0.951	1.961	3.8	17.3
6 10	16 27.52	- 1 5.0	2.546	3.495	6.9	21.8	6 10	16 26.01	-14 33.1	0.951	1.952	7.3	17.5
6 20	16 20.81	- 0 41.6	2.599	3.500	8.9	21.9	6 20	16 18.32	-14 43.3	0.973	1.944	12.5	17.7
6 30	16 15.30	- 0 33.3	2.675	3.505	11.0	22.0	6 30	16 13.23	-15 6.5	1.013	1.937	17.4	18.0
7 10	16 11.36	- 0 38.8	2.771	3.510	12.9	22.2	7 10	16 11.53	-15 41.9	1.070	1.932	21.6	18.2
420384	2012 <i>BP</i> ₁₅₂		5 31.5 112°71'	0°7/31.7	17		478887						

EPHEMERIDES

5 31.5

5 31.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
432863	2011 <i>HO</i> ₈₇		5 31.5 295°63	1°0/31.4	17		239672	SOFIA		5 31.5 149°06	0°7/31.4	18	
5 1	17 0.57	-17 49.0	1.690	2.579	13.0	20.7	5 1	16 58.89	-19 15.0	2.201	3.082	10.8	20.6
5 11	16 54.22	-18 21.2	1.605	2.559	9.3	20.4	5 11	16 52.35	-19 24.6	2.136	3.087	7.6	20.4
5 21	16 45.46	-18 56.5	1.543	2.540	5.0	20.1	5 21	16 44.17	-19 33.6	2.095	3.092	4.0	20.2
5 31	16 35.10	-19 34.0	1.507	2.520	1.0	19.7	5 31	16 35.06	-19 42.1	2.083	3.096	0.8	20.0
6 10	16 24.32	-20 12.9	1.498	2.501	4.7	20.0	6 10	16 25.93	-19 50.6	2.099	3.101	3.7	20.2
6 20	16 14.35	-20 52.6	1.516	2.481	9.4	20.2	6 20	16 17.62	-20 0.1	2.143	3.104	7.3	20.4
6 30	16 6.32	-21 33.5	1.557	2.462	13.6	20.4	6 30	16 10.87	-20 11.7	2.212	3.108	10.5	20.7
7 10	16 1.01	-22 16.4	1.619	2.443	17.2	20.6	7 10	16 6.18	-20 26.5	2.303	3.112	13.2	20.8
12088	Macalintal		5 31.5 31°31	1°0/31.2	18 R		204602	2005 <i>GC</i> ₂₀₅		5 31.5 175°30	0°8/31.2	17	
5 1	16 59.10	-22 28.2	1.295	2.197	15.3	17.1	5 1	16 57.37	-20 26.3	2.100	2.985	11.0	21.0
5 11	16 53.22	-21 42.2	1.240	2.201	10.8	16.9	5 11	16 51.35	-20 9.7	2.032	2.986	7.8	20.8
5 21	16 44.82	-20 49.2	1.206	2.205	5.7	16.6	5 21	16 43.65	-19 50.7	1.989	2.986	4.1	20.5
5 31	16 35.06	-19 52.2	1.197	2.210	1.0	16.3	5 31	16 35.03	-19 30.4	1.974	2.987	0.8	20.3
6 10	16 25.42	-18 56.2	1.212	2.215	5.4	16.6	6 10	16 26.41	-19 10.6	1.986	2.987	3.9	20.5
6 20	16 17.24	-18 6.6	1.251	2.221	10.5	16.9	6 20	16 18.64	-18 53.3	2.025	2.987	7.6	20.8
6 30	16 11.55	-17 27.8	1.312	2.226	14.9	17.2	6 30	16 12.47	-18 40.6	2.089	2.987	10.9	21.0
7 10	16 8.90	-17 2.4	1.391	2.232	18.6	17.4	7 10	16 8.39	-18 34.2	2.174	2.987	13.8	21.2
491325	2011 <i>WJ</i> ₁₀₆		5 31.5 180°46	2°1/1.6	17		431788	2008 <i>PH</i> ₄		5 31.5 306°04	0°3/31.6	15	
5 1	16 57.42	-30 23.2	2.487	3.353	10.3	21.6	5 1	16 59.08	-22 7.9	1.502	2.397	14.0	20.6
5 11	16 51.24	-30 8.6	2.414	3.353	7.5	21.4	5 11	16 53.50	-22 21.2	1.411	2.369	10.1	20.3
5 21	16 43.53	-29 44.9	2.366	3.353	4.5	21.2	5 21	16 45.24	-22 31.9	1.343	2.342	5.4	19.9
5 31	16 34.99	-29 12.3	2.345	3.353	2.2	21.0	5 31	16 35.13	-22 39.2	1.300	2.314	0.4	19.5
6 10	16 26.49	-28 32.3	2.353	3.353	3.6	21.1	6 10	16 24.49	-22 43.5	1.282	2.287	5.0	19.8
6 20	16 18.82	-27 47.8	2.389	3.353	6.5	21.3	6 20	16 14.72	-22 46.2	1.289	2.259	10.1	20.0
6 30	16 12.64	-27 2.2	2.451	3.352	9.4	21.5	6 30	16 7.11	-22 50.2	1.318	2.233	14.9	20.2
7 10	16 8.42	-26 19.1	2.536	3.352	12.0	21.7	7 10	16 2.56	-22 58.2	1.366	2.206	19.0	20.4
172880	2005 <i>EJ</i> ₁₉₈		5 31.5 151°05	0°6/31.8	17		169024	2001 <i>DX</i> ₉₅		5 31.5 108°67	0°7/31.8	17	
5 1	17 2.56	-24 26.3	1.866	2.745	12.5	21.7	5 1	17 3.48	-23 59.2	1.656	2.539	13.6	21.3
5 11	16 55.10	-24 15.8	1.804	2.754	8.8	21.5	5 11	16 55.85	-24 2.1	1.606	2.558	9.6	21.1
5 21	16 45.63	-23 58.9	1.767	2.763	4.7	21.2	5 21	16 46.06	-23 59.2	1.580	2.576	5.1	20.9
5 31	16 35.10	-23 36.2	1.757	2.771	0.7	21.0	5 31	16 35.16	-23 50.3	1.580	2.594	0.8	20.6
6 10	16 24.66	-23 9.3	1.775	2.778	4.1	21.2	6 10	16 24.45	-23 36.9	1.608	2.611	4.4	20.9
6 20	16 15.35	-22 41.4	1.820	2.784	8.2	21.5	6 20	16 15.08	-23 21.6	1.661	2.627	8.7	21.2
6 30	16 8.05	-22 15.9	1.890	2.790	11.8	21.7	6 30	16 7.94	-23 7.8	1.739	2.643	12.4	21.5
7 10	16 3.27	-21 55.7	1.981	2.795	14.9	21.9	7 10	16 3.55	-22 58.2	1.837	2.659	15.6	21.7
116839	2004 <i>FO</i> ₃₉		5 31.5 353°61	9°3/26.4	18		243872	2000 <i>XW</i> ₁₇		5 31.5 233°62	3°6/2.1	18	
5 1	16 52.28	- 4 58.1	1.472	2.366	14.3	18.2	5 1	17 2.05	-34 9.6	2.412	3.262	11.1	21.6
5 11	16 48.15	- 2 55.2	1.418	2.359	11.5	18.0	5 11	16 54.75	-34 10.3	2.320	3.246	8.4	21.4
5 21	16 42.07	- 1 1.8	1.387	2.353	9.6	17.9	5 21	16 45.52	-33 59.0	2.253	3.230	5.6	21.2
5 31	16 34.92	+ 0 33.0	1.379	2.348	9.5	17.9	5 31	16 35.14	-33 34.4	2.213	3.212	3.7	21.0
6 10	16 27.78	+ 1 42.4	1.395	2.345	11.4	18.0	6 10	16 24.62	-32 57.2	2.202	3.194	4.6	21.0
6 20	16 21.65	+ 2 22.8	1.432	2.342	14.2	18.1	6 20	16 14.95	-32 10.1	2.219	3.175	7.4	21.2
6 30	16 17.38	+ 2 34.3	1.489	2.341	17.1	18.3	6 30	16 6.97	-31 17.5	2.262	3.156	10.4	21.3
7 10	16 15.50	+ 2 20.2	1.562	2.341	19.7	18.5	7 10	16 1.28	-30 24.3	2.327	3.135	13.1	21.5
455307	2002 <i>EA</i> ₁₃₁		5 31.5 21°25	8°7/29.5	17		23204	Arditkroni		5 31.5 309°55	1°4/31.8	18	
5 1	16 54.99	- 7 47.1	0.960	1.875	18.1	20.1	5 1	17 0.80	-23 25.8	1.299	2.198	15.5	17.7
5 11	16 50.59	- 6 40.0	0.925	1.883	13.8	19.9	5 11	16 54.94	-24 1.1	1.225	2.183	11.2	17.4
5 21	16 43.49	- 5 47.6	0.908	1.894	10.1	19.7	5 21	16 46.06	-24 33.6	1.171	2.169	6.2	17.1
5 31	16 34.99	- 5 17.2	0.911	1.905	8.8	19.7	5 31	16 35.19	-25 0.8	1.142	2.155	1.5	16.8
6 10	16 26.71	- 5 13.0	0.936	1.918	11.0	19.9	6 10	16 23.86	-25 21.6	1.137	2.141	5.4	17.0
6 20	16 20.06	- 5 34.9	0.980	1.932	14.8	20.1	6 20	16 13.70	-25 36.7	1.155	2.128	10.8	17.2
6 30	16 16.07	- 6 19.8	1.042	1.948	18.6	20.4	6 30	16 6.15	-25 49.1	1.195	2.115	15.7	17.5
7 10	16 15.26	- 7 22.2	1.120	1.965	22.0	20.7	7 10	16 2.07	-26 2.3	1.253	2.103	19.8	17.7
438988	2010 <i>SP</i> ₉		5 31.5 237°85	1°8/30.7	18		12906	1998 <i>RS</i> ₇₂		5 31.5 80°34	2°4/30.7	18	
5 1	16 55.06	-16 43.7	2.724	3.604	9.0	22.2	5 1	16 57.33	-16 24.0	1.878	2.767	11.9	18.0
5 11	16 49.47	-16 20.0	2.642	3.592	6.4	22.0	5 11	16 51.42	-16 0.8	1.816	2.770	8.5	17.8
5 21	16 42.58	-15 56.2	2.587	3.581	3.6	21.8	5 21	16 43.72	-15 38.4	1.778	2.773	4.8	17.6
5 31	16 34.95	-15 33.8	2.560	3.569	1.8	21.6	5 31	16 35.05	-15 18.9	1.767	2.777	2.4	17.4
6 10	16 27.25	-15 14.3	2.561	3.557	3.8	21.8	6 10	16 26.40	-15 4.2	1.783	2.780	4.9	17.6
6 20	16 20.13	-14 59.4	2.591	3.544	6.7	21.9	6 20	16 18.70	-14 56.2	1.825	2.783	8.6	17.8
6 30	16 14.18	-14 50.3	2.647	3.531	9.4	22.1	6 30	16 12.72	-14 56.3	1.891	2.786	12.0	18.0
7 10	16 9.83	-14 47.9	2.725	3.518	11.8	22.2	7 10	16 8.96	-15 4.9	1.977	2.790	15.0	18.2
430983	2005 <i>WA</i> ₁₄₇		5 31.5 222°83	0°6/31.7	17		360910	2005 <i>SL</i> ₂₂₂		5 31.6 218°39	3°2/29.9	18	
5 1	17 1.35	-22 46.3	1.988	2.867	11.8	22.2	5 1	16 54.96	-13 0.1	2.609	3.488	9.4	21.3
5 11	16 54.40	-23 8.4	1.910	2.860	8.4	22.0	5 11	16 49.40	-12 16.6	2.535	3.482	6.8	21.1
5 21	16 45.38	-23 27.7	1.857	2.852	4.5	21.7	5 21	16 42.55	-11 35.0	2.487	3.475	4.3	21.0
5 31	16 35.11	-23 43.0	1.831	2.844	0.7	21.4	5 31	16 35.00	-10 57.5	2.468	3.469	3.2	20.9
6 10	16 24.63	-23 54.4	1.833	2.836	4.0	21.6	6 10	16 27.42	-10 26.7	2.477	3.462	4.8	21.0
6 20	16 15.02	-24 2.7	1.863	2.827	8.0	21.9	6 20	16 20.47	-10 4.1	2.513	3.454	7.5	21.1
6 30	16 7.20	-24 10.1	1.917	2.817	11.7	22.1	6 30	16 14.73	- 9 51.2	2.575	3.447	10.1	21.3
7 10	16 1.80	-24 18.7	1.993	2.807	14.8	22.3	7 10	16 10.60	- 9 48.0	2.659	3.439	12.4	21.4
18054	1999 <i>SW</i> ₇		5 31.5 357°14	4°0/28.9	18		418220	Kestutis		5 31.6 104°00	1°9/30.9	17	

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5 31.6

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
109475	2001 <i>QL</i> ₂₁₉		5 31.6 294°86	3°7/ 1.4 18			242533	2005 <i>AV</i> ₇₉		5 31.6 312°79	2°4/ 1.3 17		
5 1	17 1.31	-30 2.8	1.641	2.520	13.9	18.8	5 1	16 58.98	-28 24.4	1.797	2.677	12.8	20.6
5 11	16 54.80	-30 34.9	1.571	2.515	10.3	18.5	5 11	16 52.92	-28 34.6	1.725	2.672	9.3	20.3
5 21	16 45.76	-30 57.2	1.523	2.511	6.5	18.3	5 21	16 44.68	-28 36.1	1.676	2.667	5.5	20.1
5 31	16 35.17	-31 6.9	1.500	2.506	3.7	18.1	5 31	16 35.16	-28 27.7	1.653	2.663	2.5	19.9
6 10	16 24.40	-31 3.6	1.504	2.502	5.5	18.2	6 10	16 25.53	-28 10.4	1.656	2.658	4.5	20.0
6 20	16 14.79	-30 49.7	1.532	2.498	9.3	18.4	6 20	16 16.94	-27 46.7	1.686	2.653	8.4	20.2
6 30	16 7.46	-30 29.5	1.584	2.493	13.1	18.7	6 30	16 10.34	-27 20.5	1.739	2.649	12.1	20.4
7 10	16 3.11	-30 8.1	1.656	2.489	16.5	18.9	7 10	16 6.35	-26 56.1	1.813	2.645	15.3	20.6
482982	2014 <i>NP</i> ₅₅		5 31.6 194°54	1°8/30.6 18			284461	2007 <i>GH</i> ₃₀		5 31.6 14°16	3°0/ 1.2 17		
5 1	16 52.12	-13 53.4	3.760	4.633	6.9	21.7	5 1	16 59.23	-27 43.7	1.372	2.266	15.2	20.4
5 11	16 47.14	-13 45.8	3.686	4.631	4.9	21.6	5 11	16 53.51	-28 15.2	1.314	2.268	11.0	20.2
5 21	16 41.28	-13 39.9	3.638	4.629	2.9	21.4	5 21	16 45.12	-28 37.9	1.279	2.272	6.5	19.9
5 31	16 34.94	-13 36.6	3.621	4.626	1.8	21.3	5 31	16 35.18	-28 49.3	1.267	2.276	3.1	19.7
6 10	16 28.58	-13 36.6	3.632	4.623	3.1	21.4	6 10	16 25.19	-28 49.7	1.279	2.282	5.4	19.9
6 20	16 22.63	-13 40.4	3.673	4.620	5.1	21.6	6 20	16 16.56	-28 41.3	1.316	2.287	9.9	20.1
6 30	16 17.49	-13 48.6	3.740	4.617	7.1	21.7	6 30	16 10.45	-28 28.7	1.375	2.294	14.0	20.4
7 10	16 13.48	-14 1.2	3.831	4.613	8.9	21.8	7 10	16 7.51	-28 16.4	1.452	2.301	17.6	20.6
187001	2004 <i>TB</i> ₁₀₇		5 31.6 268°53	2°2/30.6 18			520288	2014 <i>EQ</i> ₂₄₉		5 31.6 54°49	1°7/30.7 17		
5 1	16 54.81	-16 7.5	2.399	3.283	9.9	20.4	5 1	16 56.11	-19 39.5	2.053	2.941	11.1	20.6
5 11	16 49.42	-15 41.5	2.325	3.277	7.0	20.2	5 11	16 50.42	-18 48.5	1.991	2.946	7.8	20.4
5 21	16 42.61	-15 15.9	2.276	3.271	4.0	20.0	5 21	16 43.16	-17 54.7	1.954	2.951	4.2	20.2
5 31	16 35.01	-14 52.5	2.256	3.264	2.2	19.9	5 31	16 35.08	-17 0.7	1.945	2.957	1.7	20.0
6 10	16 27.37	-14 33.3	2.263	3.258	4.3	20.0	6 10	16 27.08	-16 9.9	1.964	2.962	4.4	20.2
6 20	16 20.39	-14 19.9	2.297	3.251	7.3	20.2	6 20	16 20.00	-15 25.6	2.009	2.967	7.9	20.4
6 30	16 14.73	-14 13.5	2.357	3.245	10.3	20.4	6 30	16 14.51	-14 50.3	2.079	2.973	11.2	20.6
7 10	16 10.84	-14 14.9	2.438	3.238	12.8	20.5	7 10	16 11.05	-14 25.6	2.170	2.979	13.9	20.8
469043	2015 <i>AC</i> ₂₅₆		5 31.6 116°96	2°5/30.8 17			244058	2001 <i>TV</i> ₈₃		5 31.6 308°12	1°6/ 1.1 17		
5 1	17 0.16	-15 24.0	1.945	2.828	11.9	21.7	5 1	16 59.20	-26 58.4	1.161	2.064	16.6	19.9
5 11	16 53.24	-15 9.2	1.893	2.844	8.4	21.5	5 11	16 54.05	-26 36.8	1.084	2.044	12.1	19.6
5 21	16 44.61	-14 56.3	1.866	2.860	4.8	21.3	5 21	16 45.69	-26 1.7	1.027	2.025	6.8	19.2
5 31	16 35.12	-14 46.8	1.866	2.875	2.5	21.2	5 31	16 35.23	-25 12.9	0.993	2.006	1.7	18.8
6 10	16 25.74	-14 42.2	1.894	2.889	4.9	21.4	6 10	16 24.40	-24 14.1	0.982	1.987	5.7	19.0
6 20	16 17.39	-14 43.8	1.948	2.903	8.4	21.6	6 20	16 14.94	-23 11.5	0.993	1.969	11.6	19.3
6 30	16 10.80	-14 52.4	2.028	2.917	11.6	21.9	6 30	16 8.33	-22 13.1	1.025	1.951	17.0	19.5
7 10	16 6.43	-15 8.2	2.128	2.930	14.4	22.1	7 10	16 5.42	-21 25.5	1.073	1.935	21.6	19.7
222634	2001 <i>XZ</i> ₁₁₇		5 31.6 183°57	1°9/ 1.2 18			304759	2007 <i>BO</i> ₁₆		5 31.6 188°68	1°4/30.9 18		
5 1	17 1.25	-27 57.8	2.250	3.118	11.1	21.0	5 1	16 55.82	-17 12.2	3.004	3.879	8.4	21.9
5 11	16 54.12	-28 6.4	2.176	3.118	8.0	20.8	5 11	16 49.90	-17 1.4	2.929	3.877	5.9	21.7
5 21	16 45.16	-28 7.7	2.128	3.118	4.7	20.6	5 21	16 42.81	-16 50.7	2.882	3.876	3.2	21.6
5 31	16 35.16	-28 0.7	2.108	3.118	2.0	20.4	5 31	16 35.08	-16 41.0	2.863	3.874	1.4	21.4
6 10	16 25.12	-27 46.2	2.116	3.116	3.9	20.6	6 10	16 27.32	-16 33.2	2.874	3.871	3.3	21.6
6 20	16 15.96	-27 26.3	2.152	3.115	7.2	20.8	6 20	16 20.12	-16 28.4	2.914	3.868	6.0	21.7
6 30	16 8.51	-27 4.1	2.214	3.112	10.4	21.0	6 30	16 14.01	-16 27.7	2.980	3.865	8.5	21.9
7 10	16 3.28	-26 42.9	2.298	3.109	13.2	21.1	7 10	16 9.39	-16 31.8	3.070	3.860	10.7	22.0
506795	2007 <i>DG</i> ₁₅		5 31.6 143°78	5°4/ 3.3 17			233474	2006 <i>MK</i> ₄		5 31.6 75°04	5°5/29.6 17		
5 1	17 0.87	-42 3.9	2.900	3.715	10.4	22.4	5 1	16 56.75	- 8 40.0	1.838	2.721	12.4	20.2
5 11	16 53.70	-42 29.2	2.833	3.723	8.4	22.3	5 11	16 50.96	- 7 54.4	1.785	2.729	9.3	20.1
5 21	16 44.88	-42 41.1	2.791	3.732	6.6	22.2	5 21	16 43.48	- 7 16.2	1.756	2.737	6.6	19.9
5 31	16 35.15	-42 37.5	2.774	3.740	5.5	22.1	5 31	16 35.12	- 6 48.9	1.753	2.745	5.5	19.9
6 10	16 25.45	-42 18.6	2.786	3.748	5.8	22.2	6 10	16 26.83	- 6 35.2	1.776	2.753	7.2	20.0
6 20	16 16.62	-41 46.4	2.824	3.755	7.2	22.3	6 20	16 19.50	- 6 36.0	1.824	2.761	10.1	20.2
6 30	16 9.39	-41 4.6	2.888	3.762	9.0	22.4	6 30	16 13.86	- 6 51.3	1.895	2.769	13.1	20.4
7 10	16 4.25	-40 17.7	2.975	3.769	10.9	22.5	7 10	16 10.38	- 7 19.4	1.986	2.777	15.6	20.6
430949	2005 <i>UQ</i> ₃₂₅		5 31.6 99°49	5°7/29.1 17			107742	2001 <i>FH</i> ₃₃		5 31.6 75°56	0°1/31.5 17		
5 1	16 57.77	-10 28.4	1.678	2.566	13.2	20.8	5 1	17 1.61	-23 31.3	1.417	2.310	14.8	19.5
5 11	16 51.78	- 9 13.7	1.624	2.572	9.8	20.6	5 11	16 54.73	-23 1.1	1.372	2.328	10.4	19.3
5 21	16 43.92	- 8 4.2	1.594	2.577	6.8	20.5	5 21	16 45.54	-22 24.2	1.348	2.346	5.4	19.0
5 31	16 35.10	- 7 5.1	1.590	2.583	5.8	20.4	5 31	16 35.23	-21 42.5	1.351	2.364	0.3	18.7
6 10	16 26.38	- 6 20.7	1.612	2.588	7.8	20.6	6 10	16 25.20	-20 59.7	1.379	2.382	4.8	19.1
6 20	16 18.73	- 5 53.8	1.658	2.594	11.0	20.8	6 20	16 16.68	-20 20.1	1.432	2.400	9.5	19.4
6 30	16 12.94	- 5 45.0	1.727	2.599	14.2	21.0	6 30	16 10.59	-19 47.8	1.508	2.418	13.6	19.7
7 10	16 9.50	- 5 52.9	1.814	2.604	16.9	21.2	7 10	16 7.38	-19 25.4	1.603	2.435	17.0	20.0
290667	2005 <i>UN</i> ₃₁₂		5 31.6 237°59	0°7/31.3 18			293818	2007 <i>RT</i> ₁₇₉		5 31.6 209°05	0°9/31.8 17		
5 1	16 56.05	-20 10.8	2.643	3.522	9.3	22.0	5 1	17 2.67	-24 30.8	1.771	2.651	13.0	21.2
5 11	16 50.25	-19 58.5	2.560	3.511	6.5	21.8	5 11	16 55.52	-24 34.9	1.696	2.647	9.3	21.0
5 21	16 43.06	-19 44.3	2.503	3.499	3.5	21.5	5 21	16 46.08	-24 33.1	1.646	2.641	5.0	20.7
5 31	16 35.07	-19 29.0	2.474	3.487	0.7	21.3	5 31	16 35.28	-24 24.8	1.622	2.635	1.0	20.4
6 10	16 26.98	-19 13.9	2.475	3.475	3.3	21.5	6 10	16 24.34	-24 11.0	1.625	2.628	4.3	20.6
6 20	16 19.51	-19 0.4	2.503	3.463	6.5	21.7	6 20	16 14.45	-23 54.2	1.655	2.621	8.7	20.9
6 30	16 13.27	-18 50.3	2.558	3.450	9.4	21.9	6 30	16 6.63	-23 37.8	1.709	2.613	12.7	21.1
7 10	16 8.74	-18 45.0	2.635	3.437	11.9	22.0	7 10	16 1.52	-23 25.1	1.784	2.604	16.0	21.3
158432	2002 <i>CJ</i> ₁₃		5 31.6 124°90	1°0/31.8 18			145665	6859 <i>P-L</i>					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
305977	2009 <i>HK</i> ₉₆		5 31.6 185°86	1°2/31.1	18		77034	2001 <i>CT</i> ₃₁		5 31.6	8°58	7°7/ 2.1	18
5 1	16 56.59	-18 41.5	2.434	3.315	9.9	21.6	5 1	17 6.80	-0 11.5	1.053	1.933	19.9	17.1
5 11	16 50.67	-18 28.9	2.364	3.315	6.9	21.4	5 11	16 59.27	-1 49.0	0.996	1.934	15.5	16.9
5 21	16 43.29	-18 15.6	2.319	3.315	3.7	21.2	5 21	16 48.42	-4 0.8	0.958	1.936	10.9	16.6
5 31	16 35.13	-18 2.3	2.302	3.314	1.2	21.0	5 31	16 35.49	-6 44.5	0.944	1.941	7.9	16.5
6 10	16 26.94	-17 50.6	2.314	3.313	3.7	21.2	6 10	16 22.31	-9 50.6	0.955	1.946	9.3	16.6
6 20	16 19.46	-17 41.9	2.353	3.312	6.9	21.4	6 20	16 10.68	-13 5.8	0.992	1.953	13.6	16.8
6 30	16 13.34	-17 37.5	2.418	3.311	9.9	21.6	6 30	16 2.10	-16 17.8	1.051	1.962	18.1	17.1
7 10	16 9.03	-17 38.6	2.505	3.309	12.4	21.7	7 10	15 57.37	-19 18.7	1.130	1.972	22.0	17.4
146161	2000 <i>SS</i> ₁₈₆		5 31.6 190°25	1°0/ 1.1	18		152805	1999 <i>TL</i> ₁₈₀		5 31.6 185°61	0°2/31.5	18	
5 1	16 57.03	-26 17.0	2.761	3.631	9.2	20.7	5 1	16 55.77	-22 19.1	2.869	3.744	8.7	20.9
5 11	16 50.89	-26 8.6	2.685	3.630	6.6	20.5	5 11	16 49.96	-22 4.2	2.795	3.744	6.1	20.7
5 21	16 43.38	-25 54.8	2.635	3.628	3.6	20.3	5 21	16 42.91	-21 46.2	2.747	3.743	3.2	20.5
5 31	16 35.13	-25 35.6	2.614	3.626	1.0	20.1	5 31	16 35.18	-21 25.8	2.728	3.742	0.2	20.2
6 10	16 26.87	-25 12.2	2.621	3.624	3.0	20.3	6 10	16 27.45	-21 4.3	2.739	3.741	2.9	20.5
6 20	16 19.28	-24 46.5	2.658	3.621	6.0	20.5	6 20	16 20.33	-20 43.3	2.778	3.739	5.9	20.6
6 30	16 12.98	-24 20.9	2.721	3.618	8.8	20.7	6 30	16 14.40	-20 24.8	2.844	3.737	8.5	20.8
7 10	16 8.40	-23 57.7	2.807	3.614	11.1	20.8	7 10	16 10.06	-20 10.3	2.932	3.735	10.8	21.0
372839	2010 <i>VH</i> ₄₇		5 31.6 151°51	0°0/31.6	17		496081	2009 <i>SG</i> ₁₀₃		5 31.6 205°52	4°0/29.0	18	
5 1	17 0.69	-23 59.9	1.703	2.589	13.1	21.7	5 1	17 0.65	-14 47.3	2.187	3.064	11.0	20.1
5 11	16 53.99	-23 30.3	1.640	2.593	9.3	21.5	5 11	16 53.55	-13 5.4	2.113	3.059	8.0	19.9
5 21	16 45.17	-22 53.6	1.600	2.597	4.9	21.2	5 21	16 44.85	-11 21.3	2.066	3.054	5.1	19.7
5 31	16 35.23	-22 11.3	1.586	2.600	0.3	20.8	5 31	16 35.30	-9 40.3	2.049	3.048	4.1	19.6
6 10	16 25.35	-21 26.6	1.600	2.604	4.4	21.2	6 10	16 25.80	-8 7.9	2.062	3.041	6.2	19.8
6 20	16 16.65	-20 43.4	1.640	2.606	8.7	21.4	6 20	16 17.17	-6 48.8	2.103	3.034	9.3	19.9
6 30	16 10.03	-20 5.7	1.704	2.609	12.6	21.7	6 30	16 10.12	-5 46.1	2.170	3.026	12.3	20.1
7 10	16 6.02	-19 36.6	1.789	2.611	15.9	21.9	7 10	16 5.12	-5 0.7	2.257	3.017	14.9	20.3
476028	2007 <i>RC</i> ₂₂₁		5 31.6 72°00	12°7/ 4.9	17		36920	2000 <i>SY</i> ₂₀₇		5 31.6 93°88	0°7/31.3	18	
5 1	17 15.42	-56 8.8	2.020	2.764	16.5	20.5	5 1	16 56.77	-20 34.8	2.283	3.165	10.4	19.3
5 11	17 5.75	-57 54.3	1.976	2.782	14.9	20.4	5 11	16 50.82	-20 21.3	2.224	3.176	7.3	19.1
5 21	16 52.00	-59 12.8	1.952	2.800	13.6	20.4	5 21	16 43.40	-20 5.7	2.191	3.187	3.8	18.9
5 31	16 35.61	-59 56.6	1.949	2.818	12.8	20.4	5 31	16 35.22	-19 49.0	2.185	3.199	0.7	18.6
6 10	16 18.89	-60 2.8	1.968	2.836	12.8	20.4	6 10	16 27.10	-19 32.6	2.208	3.209	3.6	18.9
6 20	16 4.15	-59 34.7	2.008	2.854	13.5	20.5	6 20	16 19.81	-19 18.3	2.258	3.220	6.9	19.1
6 30	15 53.18	-58 40.5	2.068	2.871	14.7	20.6	6 30	16 14.00	-19 7.9	2.333	3.231	10.0	19.3
7 10	15 46.78	-57 30.8	2.146	2.889	16.0	20.7	7 10	16 10.09	-19 2.8	2.431	3.242	12.5	19.5
40530	1999 <i>RE</i> ₉₉		5 31.6 354°91	2°8/ 1.5	18		517274	2014 <i>FE</i> ₇₄		5 31.6 105°56	2°3/30.6	17	
5 1	16 59.49	-29 35.4	1.230	2.126	16.4	18.5	5 1	16 56.21	-17 6.7	2.113	3.000	10.9	21.0
5 11	16 53.91	-29 17.6	1.168	2.123	12.0	18.2	5 11	16 50.53	-16 26.5	2.048	3.002	7.7	20.8
5 21	16 45.41	-28 44.6	1.127	2.122	7.0	17.9	5 21	16 43.29	-15 45.7	2.009	3.004	4.3	20.6
5 31	16 35.26	-27 56.3	1.109	2.120	2.9	17.7	5 31	16 35.21	-15 6.8	1.997	3.006	2.3	20.5
6 10	16 25.11	-26 56.6	1.115	2.119	5.5	17.8	6 10	16 27.17	-14 32.5	2.012	3.008	4.6	20.6
6 20	16 16.53	-25 51.8	1.144	2.119	10.6	18.1	6 20	16 19.97	-14 5.2	2.054	3.010	8.0	20.8
6 30	16 10.73	-24 49.5	1.195	2.119	15.2	18.4	6 30	16 14.29	-13 46.8	2.121	3.012	11.1	21.0
7 10	16 8.32	-23 56.0	1.263	2.120	19.2	18.6	7 10	16 10.59	-13 38.1	2.209	3.014	13.8	21.2
433441	2013 <i>TQ</i> ₁₂₉		5 31.6 195°26	3°1/30.6	18		414108	2007 <i>TM</i> ₄₀₁		5 31.6 295°10	2°2/ 1.1	17	
5 1	16 59.41	-11 45.5	2.449	3.320	10.2	22.0	5 1	17 1.01	-26 47.0	1.308	2.203	15.7	20.9
5 11	16 52.63	-11 38.1	2.375	3.317	7.4	21.8	5 11	16 55.18	-26 55.5	1.229	2.185	11.4	20.5
5 21	16 44.35	-11 34.7	2.326	3.314	4.6	21.6	5 21	16 46.29	-26 54.7	1.171	2.167	6.6	20.2
5 31	16 35.21	-11 36.8	2.307	3.309	3.1	21.5	5 31	16 35.41	-26 42.8	1.137	2.149	2.3	19.9
6 10	16 26.01	-11 45.1	2.316	3.304	4.8	21.6	6 10	16 24.10	-26 20.6	1.128	2.132	5.5	20.1
6 20	16 17.49	-12 0.4	2.354	3.299	7.7	21.8	6 20	16 14.02	-25 51.8	1.142	2.115	10.8	20.3
6 30	16 10.34	-12 22.7	2.418	3.292	10.5	22.0	6 30	16 6.59	-25 21.9	1.177	2.097	15.8	20.5
7 10	16 5.02	-12 51.8	2.503	3.285	13.0	22.1	7 10	16 2.67	-24 56.4	1.230	2.081	20.0	20.7
464863	2005 <i>GA</i> ₁₁₀		5 31.6 352°21	16°6/29.3	17		471840	2012 <i>XC</i> ₈₆		5 31.6 206°26	2°4/30.8	18	
5 1	17 10.93	-46 10.7	1.133	1.977	21.2	20.0	5 1	16 56.98	-14 13.8	2.390	3.269	10.1	21.1
5 11	17 4.54	-49 42.7	1.079	1.969	18.8	19.8	5 11	16 50.99	-14 7.5	2.318	3.266	7.2	20.9
5 21	16 52.49	-52 53.4	1.045	1.963	17.1	19.7	5 21	16 43.54	-14 3.7	2.271	3.263	4.2	20.7
5 31	16 35.71	-55 23.3	1.031	1.958	16.6	19.6	5 31	16 35.25	-14 3.6	2.253	3.260	2.4	20.6
6 10	16 16.90	-56 59.3	1.037	1.955	17.6	19.7	6 10	16 26.89	-14 8.3	2.263	3.256	4.4	20.7
6 20	15 59.70	-57 40.2	1.062	1.953	19.6	19.8	6 20	16 19.23	-14 18.5	2.300	3.253	7.4	20.9
6 30	15 47.48	-57 36.4	1.102	1.952	21.9	19.9	6 30	16 12.91	-14 34.7	2.363	3.249	10.3	21.1
7 10	15 41.99	-57 4.1	1.156	1.953	24.3	20.1	7 10	16 8.40	-14 56.9	2.447	3.244	12.9	21.3
512400	2016 <i>PS</i> ₅₀		5 31.6 202°85	0°2/31.5	17		259659	2003 <i>WU</i> ₁₂₄		5 31.6 294°67	6°1/ 3.4	18	
5 1	16 58.46	-21 4.7	2.255	3.135	10.6	22.0	5 1	17 4.43	-39 2.0	1.452	2.311	16.6	19.8
5 11	16 52.15	-21 9.4	2.181	3.132	7.5	21.8	5 11	16 57.66	-38 31.7	1.356	2.283	13.1	19.5
5 21	16 44.16	-21 12.1	2.133	3.129	3.9	21.6	5 21	16 47.60	-37 34.2	1.281	2.255	9.3	19.2
5 31	16 35.22	-21 12.8	2.113	3.126	0.3	21.3	5 31	16 35.48	-36 6.0	1.230	2.227	6.4	19.0
6 10	16 26.20	-21 12.3	2.121	3.123	3.6	21.5	6 10	16 23.07	-34 9.1	1.204	2.198	7.2	18.9
6 20	16 17.95	-21 11.9	2.156	3.119	7.2	21.8	6 20	16 12.15	-31 52.0	1.203	2.170	11.1	19.1
6 30	16 11.21	-21 13.2	2.217	3.115	10.4	22.0	6 30	16 4.15	-29 27.6	1.226	2.142	15.6	19.3
7 10	16 6.51	-21 17.8	2.301	3.111	13.2	22.1	7 10	15 59.86	-27 8.7	1.268	2.114	19.9	19.4
28015	1997 <i>YG</i> ₉		5 31.6 192°47	0°3/31.5	18		436210	2009 <i>XV</i>					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
469451	2002 <i>PQ</i> ₆₅		5 31.6 284°84	3°3/30.2	16		157381	2004 <i>TN</i> ₁₆₉		5 31.6 319°90	3°9/30.4	18	
5 1	16 57.90	-14 38.9	2.032	2.917	11.4	22.0	5 1	16 55.93	-15 8.2	1.371	2.275	14.5	19.3
5 11	16 52.05	-13 58.2	1.935	2.886	8.3	21.7	5 11	16 51.28	-14 29.8	1.291	2.251	10.5	19.0
5 21	16 44.30	-13 17.6	1.862	2.854	5.0	21.4	5 21	16 44.12	-13 52.4	1.232	2.228	6.3	18.7
5 31	16 35.32	-12 39.9	1.816	2.822	3.3	21.3	5 31	16 35.34	-13 19.7	1.197	2.205	3.9	18.5
6 10	16 26.03	-12 8.0	1.798	2.789	5.6	21.4	6 10	16 26.20	-12 55.9	1.186	2.183	6.9	18.6
6 20	16 17.37	-11 44.9	1.806	2.756	9.3	21.5	6 20	16 18.04	-12 44.1	1.199	2.161	11.6	18.8
6 30	16 10.24	-11 32.6	1.839	2.723	12.9	21.7	6 30	16 12.03	-12 46.7	1.232	2.141	16.1	19.0
7 10	16 5.28	-11 32.1	1.891	2.689	16.1	21.8	7 10	16 8.95	-13 3.8	1.283	2.121	20.1	19.2
169865	2002 <i>RW</i> ₇₅		5 31.6 352°08	2°1/1.2	17		503933	2003 <i>SK</i> ₂₈		5 31.6 183°77	0°2/31.5	18	
5 1	16 57.07	-27 20.7	1.492	2.386	14.2	19.3	5 1	16 58.60	-22 57.6	2.460	3.335	10.0	22.1
5 11	16 51.90	-27 23.9	1.426	2.381	10.3	19.0	5 11	16 52.10	-22 32.6	2.387	3.336	7.0	21.9
5 21	16 44.31	-27 17.9	1.382	2.377	5.9	18.7	5 21	16 44.12	-22 3.1	2.340	3.336	3.7	21.7
5 31	16 35.31	-27 2.2	1.362	2.373	2.2	18.5	5 31	16 35.33	-21 30.1	2.321	3.335	0.2	21.4
6 10	16 26.22	-26 38.2	1.367	2.370	4.8	18.7	6 10	16 26.55	-20 55.7	2.332	3.334	3.4	21.7
6 20	16 18.31	-26 9.4	1.396	2.369	9.3	18.9	6 20	16 18.55	-20 22.1	2.370	3.332	6.7	21.9
6 30	16 12.65	-25 40.2	1.448	2.368	13.4	19.2	6 30	16 11.99	-19 52.0	2.436	3.329	9.8	22.1
7 10	16 9.87	-25 14.9	1.519	2.367	17.0	19.4	7 10	16 7.31	-19 27.6	2.523	3.327	12.3	22.3
21126	Katsuyoshi		5 31.6 335°32	5°1/30.6	18		182765	2001 <i>XY</i> ₂₀₁		5 31.6 155°68	0°2/31.6	18	
5 1	16 57.40	-11 46.9	1.242	2.147	15.7	16.4	5 1	16 56.93	-21 55.8	2.591	3.468	9.5	21.8
5 11	16 52.33	-11 26.7	1.178	2.137	11.5	16.1	5 11	16 50.88	-21 48.9	2.523	3.473	6.7	21.6
5 21	16 44.63	-11 14.2	1.135	2.127	7.3	15.8	5 21	16 43.46	-21 39.3	2.481	3.478	3.5	21.4
5 31	16 35.34	-11 12.8	1.114	2.119	5.1	15.7	5 31	16 35.29	-21 27.3	2.468	3.482	0.2	21.1
6 10	16 25.84	-11 24.9	1.117	2.111	7.7	15.8	6 10	16 27.13	-21 14.2	2.484	3.486	3.1	21.4
6 20	16 17.53	-11 51.3	1.143	2.104	12.2	16.0	6 20	16 19.68	-21 1.5	2.528	3.490	6.3	21.6
6 30	16 11.60	-12 31.5	1.189	2.098	16.5	16.3	6 30	16 13.56	-20 51.0	2.598	3.493	9.2	21.8
7 10	16 8.74	-13 23.4	1.252	2.093	20.3	16.5	7 10	16 9.18	-20 44.1	2.690	3.496	11.6	22.0
163601	2002 <i>TJ</i> ₂₃₈		5 31.6 228°71	0°6/31.3	18		338783	2003 <i>UF</i> ₂₉₈		5 31.6 344°76	1°5/31.1	17	
5 1	16 57.56	-21 24.2	2.512	3.389	9.7	20.2	5 1	16 57.08	-19 47.6	1.673	2.568	12.8	20.5
5 11	16 51.42	-20 56.7	2.428	3.378	6.9	20.0	5 11	16 51.57	-19 16.9	1.607	2.565	9.1	20.3
5 21	16 43.78	-20 25.5	2.370	3.366	3.6	19.8	5 21	16 44.02	-18 43.4	1.564	2.562	4.9	20.0
5 31	16 35.29	-19 51.9	2.340	3.354	0.7	19.5	5 31	16 35.33	-18 9.2	1.547	2.560	1.5	19.8
6 10	16 26.73	-19 17.9	2.340	3.341	3.5	19.7	6 10	16 26.61	-17 37.3	1.556	2.557	4.8	20.0
6 20	16 18.84	-18 45.7	2.368	3.327	6.8	19.9	6 20	16 18.92	-17 10.7	1.591	2.556	9.1	20.3
6 30	16 12.31	-18 17.8	2.422	3.314	9.9	20.1	6 30	16 13.15	-16 52.3	1.648	2.554	12.9	20.5
7 10	16 7.60	-17 56.2	2.498	3.299	12.5	20.2	7 10	16 9.85	-16 43.4	1.726	2.553	16.2	20.7
156950	2003 <i>GE</i> ₄₁		5 31.6 84°83	3°6/30.5	18		427764	2004 <i>TP</i> ₁₄₈		5 31.6 208°51	1°5/1.1	17	
5 1	17 0.66	-14 3.8	1.721	2.607	13.0	20.7	5 1	16 59.84	-26 38.6	1.824	2.706	12.6	21.7
5 11	16 53.67	-13 26.3	1.682	2.633	9.3	20.5	5 11	16 53.48	-26 36.6	1.755	2.705	9.1	21.5
5 21	16 44.91	-12 52.2	1.667	2.659	5.5	20.4	5 21	16 45.03	-26 26.9	1.709	2.703	5.1	21.2
5 31	16 35.34	-12 24.2	1.679	2.684	3.6	20.3	5 31	16 35.39	-26 9.1	1.690	2.702	1.6	21.0
6 10	16 26.06	-12 4.8	1.718	2.709	5.8	20.5	6 10	16 25.70	-25 44.8	1.698	2.701	4.2	21.2
6 20	16 17.98	-11 55.7	1.782	2.733	9.3	20.8	6 20	16 17.07	-25 16.7	1.732	2.700	8.2	21.4
6 30	16 11.86	-11 57.5	1.870	2.757	12.6	21.0	6 30	16 10.39	-24 48.8	1.790	2.698	11.9	21.6
7 10	16 8.09	-12 9.7	1.979	2.781	15.3	21.2	7 10	16 6.25	-24 24.6	1.869	2.697	15.1	21.9
41188	1999 <i>VC</i> ₂₀₁		5 31.6 251°11	7°9/27.4	18		327727	2006 <i>SY</i> ₂₀₄		5 31.6 102°20	0°2/31.7	16	
5 1	16 54.33	+ 3 58.3	2.613	3.449	10.8	19.2	5 1	17 2.23	-23 13.4	1.647	2.533	13.5	22.2
5 11	16 49.04	+ 4 51.1	2.546	3.437	9.2	19.0	5 11	16 55.08	-23 5.7	1.596	2.549	9.5	22.0
5 21	16 42.49	+ 5 31.6	2.502	3.426	8.1	18.9	5 21	16 45.80	-22 52.8	1.569	2.565	5.0	21.7
5 31	16 35.22	+ 5 55.9	2.484	3.413	8.0	18.9	5 31	16 35.43	-22 35.1	1.567	2.581	0.4	21.4
6 10	16 27.90	+ 6 1.9	2.491	3.401	8.9	18.9	6 10	16 25.23	-22 14.6	1.593	2.596	4.3	21.8
6 20	16 21.14	+ 5 49.2	2.522	3.388	10.4	19.0	6 20	16 16.33	-21 54.1	1.644	2.611	8.7	22.1
6 30	16 15.52	+ 5 18.7	2.576	3.376	12.2	19.1	6 30	16 9.60	-21 37.0	1.720	2.626	12.5	22.3
7 10	16 11.47	+ 4 33.0	2.649	3.363	13.9	19.2	7 10	16 5.54	-21 25.6	1.816	2.640	15.6	22.6
327401	2005 <i>VU</i>		5 31.6 298°00	0°5/31.8	17		17479	1991 <i>PV</i> ₉		5 31.6 339°08	11°4/27.0	18	
5 1	16 59.35	-25 19.8	1.498	2.390	14.2	21.2	5 1	16 54.08	- 0 1.7	1.329	2.213	16.2	16.5
5 11	16 53.71	-24 47.4	1.407	2.363	10.2	20.9	5 11	16 49.75	+ 1 31.7	1.272	2.201	13.6	16.3
5 21	16 45.41	-24 4.3	1.339	2.337	5.6	20.5	5 21	16 43.18	+ 2 48.2	1.235	2.190	11.8	16.2
5 31	16 35.40	-23 11.3	1.296	2.310	0.6	20.1	5 31	16 35.29	+ 3 39.2	1.221	2.180	11.6	16.1
6 10	16 25.01	-22 11.7	1.279	2.283	5.0	20.3	6 10	16 27.30	+ 3 59.1	1.227	2.170	13.2	16.2
6 20	16 15.64	-21 10.9	1.286	2.256	10.2	20.6	6 20	16 20.37	+ 3 46.4	1.254	2.162	15.9	16.3
6 30	16 8.51	-20 15.0	1.316	2.230	14.9	20.8	6 30	16 15.50	+ 3 3.4	1.299	2.155	18.9	16.5
7 10	16 4.43	-19 29.2	1.364	2.204	19.1	21.0	7 10	16 13.31	+ 1 55.8	1.359	2.149	21.6	16.7
250846	2005 <i>UK</i> ₁₉₆		5 31.6 271°89	0°0/31.5	18		501517	2014 <i>DQ</i> ₁₂₇		5 31.6 161°04	3°4/30.1	17	
5 1	16 56.89	-22 22.7	2.362	3.242	10.2	21.2	5 1	16 56.74	-11 45.5	2.566	3.440	9.7	22.4
5 11	16 51.12	-22 17.4	2.274	3.225	7.2	21.0	5 11	16 50.68	-11 13.0	2.503	3.446	7.0	22.2
5 21	16 43.70	-22 8.7	2.211	3.207	3.8	20.7	5 21	16 43.32	-10 43.8	2.466	3.452	4.5	22.0
5 31	16 35.30	-21 57.0	2.176	3.190	0.2	20.4	5 31	16 35.30	-10 20.0	2.458	3.457	3.4	22.0
6 10	16 26.73	-21 43.4	2.169	3.172	3.5	20.6	6 10	16 27.30	-10 3.3	2.478	3.461	4.9	22.1
6 20	16 18.82	-21 29.7	2.190	3.154	7.0	20.8	6 20	16 20.00	- 9 55.1	2.526	3.465	7.5	22.3
6 30	16 12.30	-21 17.9	2.236	3.136	10.3	21.0	6 30	16 13.96	- 9 55.9	2.599	3.469	10.0	22.4
7 10	16 7.72	-21 10.0	2.304	3.117	13.1	21.1	7 10	16 9.59	-10 5.5	2.694	3.472	12.3	22.6
394665	2008 <i>CB</i> ₁₉		5 31.6 3°84	4°2/30.0	17		12708	Van Straten		5 31.6			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
374444	2005 <i>WJ</i> ₁₉₅		5 31.6 225°42	0°1/31.7 18			18348	1990 <i>BM</i> ₁		5 31.6 159°75	10°5/29.2 18		
5 1	17 1.10	-22 11.3	2.261	3.136	10.8	21.7	5 1	17 2.30	+ 8 49.7	2.069	2.881	14.0	18.1
5 11	16 54.13	-22 17.6	2.175	3.123	7.6	21.5	5 11	16 54.73	+ 9 24.2	2.020	2.889	12.2	18.0
5 21	16 45.34	-22 20.9	2.115	3.110	4.1	21.3	5 21	16 45.52	+ 9 38.1	1.992	2.897	10.9	17.9
5 31	16 35.42	-22 21.0	2.083	3.097	0.3	20.9	5 31	16 35.46	+ 9 27.6	1.989	2.903	10.5	17.9
6 10	16 25.31	-22 18.5	2.080	3.083	3.6	21.2	6 10	16 25.49	+ 8 51.8	2.011	2.909	11.2	17.9
6 20	16 15.93	-22 14.7	2.105	3.067	7.4	21.4	6 20	16 16.47	+ 7 52.2	2.057	2.914	12.8	18.0
6 30	16 8.11	-22 11.6	2.157	3.052	10.8	21.6	6 30	16 9.12	+ 6 32.7	2.126	2.918	14.7	18.2
7 10	16 2.43	-22 11.4	2.230	3.035	13.7	21.7	7 10	16 3.90	+ 4 58.3	2.213	2.921	16.5	18.3
105785	2000 <i>SY</i> ₁₁₉		5 31.6 138°76	2°8/30.4 18			510447	2011 <i>WE</i> ₉		5 31.6 246°36	0°8/31.9 18		
5 1	16 55.82	-13 37.2	2.464	3.344	9.8	19.8	5 1	16 58.24	-23 58.2	2.391	3.267	10.2	22.0
5 11	16 50.09	-13 12.3	2.402	3.350	7.0	19.6	5 11	16 52.07	-24 15.2	2.310	3.258	7.3	21.8
5 21	16 43.04	-12 49.8	2.365	3.355	4.3	19.5	5 21	16 44.23	-24 28.7	2.255	3.250	4.0	21.6
5 31	16 35.29	-12 31.6	2.356	3.361	2.8	19.4	5 31	16 35.39	-24 38.2	2.227	3.240	0.9	21.3
6 10	16 27.57	-12 19.2	2.376	3.366	4.6	19.5	6 10	16 26.41	-24 43.8	2.229	3.231	3.4	21.5
6 20	16 20.55	-12 13.9	2.423	3.371	7.3	19.7	6 20	16 18.10	-24 46.5	2.257	3.222	6.8	21.7
6 30	16 14.83	-12 16.4	2.495	3.376	10.0	19.9	6 30	16 11.24	-24 48.1	2.312	3.212	10.0	21.9
7 10	16 10.82	-12 26.7	2.589	3.381	12.4	20.0	7 10	16 6.34	-24 50.7	2.389	3.202	12.7	22.1
353156	2009 <i>HK</i> ₆₄		5 31.6 71°51	1°3/31.9 17			437344	2013 <i>TR</i> ₂₃		5 31.6 179°33	4°9/29.1 17		
5 1	16 59.62	-24 32.1	2.088	2.967	11.4	20.6	5 1	16 58.35	-10 31.9	2.110	2.988	11.3	21.6
5 11	16 53.09	-25 3.0	2.028	2.977	8.1	20.4	5 11	16 52.01	- 9 18.1	2.047	2.990	8.4	21.4
5 21	16 44.74	-25 29.8	1.993	2.988	4.5	20.2	5 21	16 44.12	- 8 7.8	2.010	2.991	5.8	21.3
5 31	16 35.39	-25 51.2	1.986	2.998	1.4	20.0	5 31	16 35.39	- 7 5.2	2.000	2.991	5.0	21.2
6 10	16 26.02	-26 7.1	2.006	3.009	3.8	20.2	6 10	16 26.71	- 6 14.4	2.017	2.991	6.7	21.3
6 20	16 17.57	-26 18.2	2.054	3.019	7.3	20.4	6 20	16 18.87	- 5 38.0	2.062	2.990	9.5	21.5
6 30	16 10.83	-26 26.6	2.127	3.030	10.6	20.6	6 30	16 12.58	- 5 17.1	2.130	2.989	12.4	21.7
7 10	16 6.32	-26 34.6	2.222	3.040	13.3	20.8	7 10	16 8.27	- 5 11.2	2.218	2.988	14.8	21.8
25152	<i>Toplis</i>		5 31.6 243°59	3°7/30.0 18			228499	2001 <i>SS</i> ₂₈₈		5 31.6 182°69	4°6/29.4 18		
5 1	16 56.98	-13 32.8	2.021	2.906	11.4	18.8	5 1	16 58.68	-12 38.2	1.861	2.746	12.2	20.6
5 11	16 51.21	-12 45.5	1.949	2.899	8.3	18.6	5 11	16 52.43	-11 24.5	1.798	2.747	9.0	20.4
5 21	16 43.75	-12 0.0	1.902	2.892	5.2	18.4	5 21	16 44.39	-10 12.9	1.760	2.747	5.9	20.2
5 31	16 35.34	-11 19.4	1.882	2.885	3.7	18.3	5 31	16 35.41	- 9 8.0	1.749	2.747	4.7	20.1
6 10	16 26.88	-10 46.8	1.889	2.877	5.8	18.4	6 10	16 26.46	- 8 14.2	1.765	2.746	6.8	20.2
6 20	16 19.23	-10 24.7	1.923	2.870	9.0	18.6	6 20	16 18.48	- 7 34.7	1.806	2.745	10.0	20.4
6 30	16 13.14	-10 14.4	1.981	2.862	12.2	18.8	6 30	16 12.24	- 7 11.3	1.872	2.744	13.2	20.6
7 10	16 9.13	-10 16.2	2.058	2.854	15.0	19.0	7 10	16 8.21	- 7 3.6	1.956	2.742	16.0	20.8
285398	1999 <i>TN</i> ₂₇₈		5 31.6 248°71	2°9/ 1.6 18			85354	1995 <i>UA</i> ₆₇		5 31.6 143°46	1°3/31.2 17		
5 1	16 58.63	-30 48.3	2.545	3.406	10.2	20.7	5 1	17 1.70	-18 53.9	1.916	2.798	12.1	21.0
5 11	16 52.35	-31 13.5	2.462	3.397	7.6	20.6	5 11	16 54.52	-18 41.6	1.857	2.809	8.5	20.8
5 21	16 44.38	-31 31.1	2.403	3.387	4.8	20.4	5 21	16 45.49	-18 28.2	1.823	2.819	4.6	20.6
5 31	16 35.38	-31 39.8	2.373	3.377	2.9	20.2	5 31	16 35.47	-18 14.7	1.816	2.828	1.3	20.3
6 10	16 26.22	-31 39.3	2.371	3.366	4.1	20.3	6 10	16 25.52	-18 2.6	1.837	2.837	4.4	20.6
6 20	16 17.75	-31 30.9	2.397	3.356	6.8	20.4	6 20	16 16.62	-17 53.8	1.886	2.846	8.2	20.8
6 30	16 10.72	-31 17.3	2.448	3.345	9.6	20.6	6 30	16 9.56	-17 50.3	1.959	2.854	11.7	21.1
7 10	16 5.70	-31 1.5	2.522	3.334	12.1	20.8	7 10	16 4.84	-17 53.2	2.053	2.861	14.6	21.3
63156	<i>Yicheon</i>		5 31.6 277°32	1°2/31.3 18			251393	2007 <i>VJ</i> ₃₃₀		5 31.6 265°36	1°6/ 1.0 17		
5 1	16 57.18	-17 45.5	2.256	3.139	10.5	19.3	5 1	17 2.89	-25 56.1	1.645	2.528	13.7	21.6
5 11	16 51.33	-17 52.8	2.178	3.130	7.4	19.1	5 11	16 56.13	-26 3.0	1.556	2.506	10.0	21.3
5 21	16 43.83	-18 0.8	2.124	3.120	4.0	18.9	5 21	16 46.72	-26 2.5	1.489	2.483	5.6	21.0
5 31	16 35.35	-18 9.9	2.098	3.111	1.2	18.6	5 31	16 35.56	-25 53.4	1.448	2.460	1.7	20.7
6 10	16 26.74	-18 20.8	2.101	3.101	3.9	18.8	6 10	16 23.97	-25 36.1	1.433	2.436	4.8	20.8
6 20	16 18.81	-18 34.0	2.130	3.092	7.4	19.0	6 20	16 13.32	-25 13.4	1.445	2.412	9.6	21.0
6 30	16 12.31	-18 50.4	2.185	3.082	10.6	19.2	6 30	16 4.85	-24 49.4	1.480	2.388	14.0	21.2
7 10	16 7.77	-19 10.8	2.262	3.073	13.4	19.4	7 10	15 59.38	-24 28.8	1.534	2.363	17.8	21.4
507841	2014 <i>FA</i> ₂₂		5 31.6 219°35	4°4/29.5 18			73350	2002 <i>JT</i> ₁₃₁		5 31.6 269°69	0°2/31.6 18		
5 1	16 55.88	-11 2.7	2.184	3.066	10.8	21.6	5 1	17 1.16	-22 26.8	1.550	2.441	13.9	19.8
5 11	16 50.30	-10 9.0	2.118	3.063	8.0	21.4	5 11	16 54.87	-22 13.6	1.468	2.423	9.9	19.5
5 21	16 43.21	- 9 18.8	2.076	3.060	5.4	21.3	5 21	16 46.01	-21 55.0	1.408	2.405	5.3	19.2
5 31	16 35.31	- 8 35.7	2.062	3.057	4.4	21.2	5 31	16 35.52	-21 31.5	1.373	2.387	0.4	18.8
6 10	16 27.41	- 8 2.5	2.075	3.054	6.1	21.3	6 10	16 24.72	-21 5.2	1.364	2.368	4.9	19.1
6 20	16 20.27	- 7 41.2	2.114	3.051	8.9	21.4	6 20	16 14.94	-20 39.3	1.381	2.349	9.9	19.3
6 30	16 14.54	- 7 32.9	2.178	3.048	11.7	21.6	6 30	16 7.35	-20 17.9	1.421	2.330	14.4	19.5
7 10	16 10.71	- 7 37.1	2.261	3.044	14.2	21.8	7 10	16 2.71	-20 4.2	1.480	2.310	18.2	19.7
215556	2003 <i>AD</i> ₈₅		5 31.6 57°68	0°6/31.8 17			357931	2005 <i>WV</i> ₁₅₉		5 31.6 90°08	0°3/31.6 17		
5 1	16 59.80	-22 15.9	1.941	2.824	11.9	19.7	5 1	17 4.35	-20 23.5	1.301	2.196	15.7	20.9
5 11	16 53.26	-22 47.6	1.886	2.838	8.4	19.5	5 11	16 57.06	-20 42.5	1.252	2.209	11.1	20.7
5 21	16 44.85	-23 16.8	1.855	2.852	4.5	19.3	5 21	16 47.05	-21 0.0	1.224	2.222	5.9	20.4
5 31	16 35.42	-23 42.4	1.852	2.866	0.7	19.0	5 31	16 35.57	-21 15.0	1.221	2.235	0.5	20.1
6 10	16 26.01	-24 4.0	1.876	2.880	3.8	19.3	6 10	16 24.19	-21 27.8	1.244	2.248	5.2	20.5
6 20	16 17.58	-24 22.4	1.928	2.894	7.6	19.6	6 20	16 14.35	-21 39.7	1.291	2.260	10.2	20.8
6 30	16 10.96	-24 39.0	2.004	2.908	11.0	19.8	6 30	16 7.17	-21 53.3	1.360	2.272	14.7	21.1
7 10	16 6.66	-24 55.7	2.101	2.922	13.9	20.0	7 10	16 3.23	-22 10.4	1.448	2.284	18.3	21.3
430292	2013 <i>WU</i> ₇₃		5 31.6 210°87	2°1/ 1.3 17			407820	2012 <i>AR</i> ₂₁					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
312209	2007 VM ₂₉₁		5 31.6 67°28	0°9/31.4 17			268972	2007 EQ ₃₁		5 31.6 338°84	7°1/29.9 17		
5 1	17 1.45	-20 19.3	1.355	2.253	15.1	20.7	5 1	16 55.65	-8 2.7	1.291	2.191	15.5	19.9
5 11	16 54.87	-20 13.1	1.307	2.266	10.6	20.4	5 11	16 51.02	-7 22.8	1.227	2.179	11.8	19.7
5 21	16 45.83	-20 4.5	1.281	2.279	5.6	20.2	5 21	16 43.97	-6 53.4	1.184	2.168	8.4	19.4
5 31	16 35.51	-19 54.4	1.279	2.293	0.9	19.9	5 31	16 35.44	-6 39.9	1.164	2.159	7.1	19.3
6 10	16 25.33	-19 44.9	1.303	2.306	5.1	20.2	6 10	16 26.73	-6 45.5	1.166	2.149	9.2	19.4
6 20	16 16.60	-19 38.2	1.351	2.320	9.9	20.5	6 20	16 19.13	-7 11.2	1.191	2.141	12.9	19.6
6 30	16 10.33	-19 36.9	1.421	2.334	14.2	20.8	6 30	16 13.72	-7 55.8	1.236	2.135	16.8	19.8
7 10	16 7.03	-19 42.6	1.511	2.347	17.6	21.1	7 10	16 11.19	-8 56.0	1.298	2.129	20.3	20.0
166469	2002 PV ₁₀₇		5 31.6 272°98	7°0/28.4 18			126721	2002 CR ₂₅₁		5 31.6 142°33	1°1/31.9 17		
5 1	16 56.25	-4 36.0	1.984	2.857	12.1	20.1	5 1	17 4.28	-23 59.5	1.599	2.482	14.0	20.3
5 11	16 50.76	-3 33.3	1.911	2.842	9.6	19.9	5 11	16 56.80	-24 19.1	1.538	2.490	9.9	20.1
5 21	16 43.58	-2 39.2	1.862	2.828	7.6	19.8	5 21	16 46.89	-24 33.5	1.502	2.497	5.4	19.8
5 31	16 35.39	-1 58.3	1.839	2.813	7.1	19.7	5 31	16 35.61	-24 41.5	1.491	2.504	1.2	19.5
6 10	16 27.09	-1 34.3	1.841	2.798	8.6	19.7	6 10	16 24.31	-24 43.4	1.507	2.510	4.6	19.8
6 20	16 19.53	-1 28.8	1.869	2.784	11.1	19.9	6 20	16 14.28	-24 41.2	1.549	2.516	9.1	20.1
6 30	16 13.48	-1 41.8	1.918	2.769	13.9	20.0	6 30	16 6.56	-24 38.0	1.616	2.522	13.1	20.3
7 10	16 9.48	-2 11.5	1.986	2.754	16.4	20.2	7 10	16 1.75	-24 37.1	1.702	2.527	16.5	20.6
179780	2002 SB ₆₀		5 31.6 282°89	1°8/31.2 17			491294	2011 VQ ₂₁		5 31.6 224°80	1°5/1.4 18		
5 1	17 0.57	-17 47.6	1.535	2.428	13.9	20.1	5 1	16 57.55	-28 4.7	2.640	3.508	9.7	22.5
5 11	16 54.47	-17 47.2	1.453	2.409	9.9	19.8	5 11	16 51.45	-27 56.4	2.558	3.500	7.0	22.3
5 21	16 45.82	-17 47.5	1.393	2.390	5.5	19.5	5 21	16 43.86	-27 41.0	2.501	3.491	4.0	22.1
5 31	16 35.54	-17 49.5	1.358	2.371	1.8	19.2	5 31	16 35.43	-27 18.7	2.472	3.482	1.6	21.9
6 10	16 24.86	-17 54.2	1.349	2.351	5.3	19.3	6 10	16 26.93	-26 50.5	2.472	3.473	3.3	22.0
6 20	16 15.12	-18 3.1	1.366	2.331	10.2	19.6	6 20	16 19.13	-26 18.7	2.500	3.464	6.3	22.2
6 30	16 7.50	-18 18.0	1.405	2.312	14.6	19.8	6 30	16 12.69	-25 46.0	2.555	3.454	9.2	22.3
7 10	16 2.77	-18 40.1	1.463	2.292	18.5	20.0	7 10	16 8.08	-25 15.4	2.632	3.444	11.7	22.5
262341	2006 TJ ₅₂		5 31.6 121°03	0°6/31.5 17			480636	2015 MA ₉		5 31.6 49°74	3°1/2.3 17		
5 1	17 1.49	-20 55.8	1.751	2.637	12.8	21.3	5 1	16 58.65	-33 20.2	2.065	2.930	12.1	20.6
5 11	16 54.53	-20 48.5	1.695	2.648	9.0	21.1	5 11	16 52.42	-32 54.9	2.002	2.938	9.0	20.5
5 21	16 45.55	-20 38.4	1.662	2.659	4.8	20.8	5 21	16 44.39	-32 16.5	1.963	2.946	5.7	20.3
5 31	16 35.50	-20 26.0	1.656	2.670	0.6	20.5	5 31	16 35.45	-31 25.3	1.950	2.955	3.3	20.1
6 10	16 25.54	-20 13.2	1.678	2.680	4.3	20.8	6 10	16 26.68	-30 23.9	1.965	2.964	4.3	20.2
6 20	16 16.72	-20 1.9	1.726	2.691	8.5	21.1	6 20	16 18.99	-29 16.7	2.007	2.973	7.4	20.4
6 30	16 9.91	-19 54.8	1.798	2.700	12.2	21.4	6 30	16 13.16	-28 8.9	2.074	2.982	10.6	20.6
7 10	16 5.62	-19 53.4	1.891	2.709	15.3	21.6	7 10	16 9.62	-27 5.3	2.164	2.991	13.3	20.8
71317	2000 AY ₇₈		5 31.6 201°89	1°0/31.2 18			494408	2016 UQ ₆₂		5 31.6 226°56	0°0/31.6 18		
5 1	16 58.22	-20 38.4	2.219	3.100	10.7	19.1	5 1	16 57.57	-21 16.6	2.557	3.434	9.6	21.4
5 11	16 52.00	-20 7.5	2.146	3.097	7.5	18.9	5 11	16 51.48	-21 28.3	2.478	3.427	6.8	21.3
5 21	16 44.16	-19 33.3	2.097	3.094	4.0	18.6	5 21	16 43.90	-21 38.3	2.425	3.421	3.6	21.0
5 31	16 35.43	-18 57.4	2.077	3.090	1.0	18.4	5 31	16 35.44	-21 46.5	2.400	3.414	0.2	20.7
6 10	16 26.67	-18 22.2	2.085	3.086	3.9	18.6	6 10	16 26.86	-21 53.3	2.404	3.407	3.2	21.0
6 20	16 18.73	-17 50.1	2.121	3.081	7.5	18.8	6 20	16 18.92	-21 59.4	2.437	3.400	6.5	21.2
6 30	16 12.33	-17 23.9	2.182	3.076	10.7	19.0	6 30	16 12.29	-22 6.3	2.496	3.392	9.5	21.4
7 10	16 7.94	-17 5.2	2.265	3.071	13.5	19.2	7 10	16 7.45	-22 15.2	2.577	3.384	12.0	21.5
126531	2002 CZ ₈₄		5 31.6 240°61	0°0/31.5 18			178863	2001 KK ₆₃		5 31.6 17°70	3°2/30.6 17		
5 1	16 59.60	-22 31.5	1.827	2.713	12.4	20.6	5 1	16 58.57	-16 42.0	1.378	2.279	14.6	20.0
5 11	16 53.34	-22 25.3	1.754	2.707	8.8	20.4	5 11	16 52.88	-16 0.9	1.321	2.281	10.4	19.8
5 21	16 45.01	-22 14.8	1.705	2.702	4.7	20.1	5 21	16 44.83	-15 20.0	1.286	2.282	5.9	19.5
5 31	16 35.48	-22 0.6	1.682	2.696	0.3	19.8	5 31	16 35.49	-14 42.8	1.275	2.285	3.2	19.3
6 10	16 25.85	-21 44.0	1.687	2.690	4.2	20.1	6 10	16 26.17	-14 13.1	1.289	2.287	6.3	19.5
6 20	16 17.18	-21 27.5	1.718	2.684	8.4	20.3	6 20	16 18.12	-13 54.1	1.327	2.290	10.7	19.8
6 30	16 10.38	-21 13.8	1.773	2.678	12.2	20.5	6 30	16 12.32	-13 47.6	1.387	2.293	14.9	20.0
7 10	16 6.05	-21 5.5	1.848	2.672	15.4	20.7	7 10	16 9.35	-13 54.0	1.465	2.296	18.4	20.3
335082	2004 SZ ₁₅		5 31.6 320°73	0°5/31.7 17			22973	1999 VW ₁₆		5 31.6 244°50	0°7/31.9 18 R		
5 1	16 57.97	-21 57.0	1.271	2.176	15.3	20.1	5 1	16 59.22	-24 39.0	1.996	2.877	11.7	19.1
5 11	16 53.34	-22 18.2	1.176	2.138	11.1	19.7	5 11	16 52.98	-24 29.7	1.918	2.868	8.4	18.9
5 21	16 45.60	-22 38.3	1.102	2.101	6.1	19.3	5 21	16 44.80	-24 14.4	1.864	2.859	4.5	18.6
5 31	16 35.54	-22 56.0	1.051	2.064	0.6	18.8	5 31	16 35.49	-23 53.3	1.837	2.850	0.8	18.3
6 10	16 24.61	-23 10.9	1.023	2.028	5.6	19.0	6 10	16 26.07	-23 28.1	1.837	2.841	3.9	18.5
6 20	16 14.47	-23 24.0	1.018	1.993	11.5	19.2	6 20	16 17.52	-23 1.3	1.865	2.831	7.9	18.8
6 30	16 6.74	-23 37.9	1.034	1.959	17.0	19.4	6 30	16 10.72	-22 36.2	1.917	2.821	11.5	19.0
7 10	16 2.58	-23 55.8	1.066	1.926	21.8	19.6	7 10	16 6.25	-22 15.7	1.990	2.811	14.6	19.2
205724	2002 AC ₁₁₃		5 31.6 106°02	0°8/31.9 18			325819	2010 RF ₁₄₉		5 31.6 187°79	3°3/30.5 17		
5 1	17 5.21	-24 40.6	1.608	2.490	14.0	21.4	5 1	17 0.27	-15 43.7	1.665	2.554	13.2	21.7
5 11	16 57.16	-24 33.8	1.563	2.513	9.9	21.2	5 11	16 53.79	-14 59.1	1.601	2.554	9.4	21.5
5 21	16 46.91	-24 19.9	1.540	2.536	5.3	21.0	5 21	16 45.23	-14 14.9	1.560	2.554	5.5	21.2
5 31	16 35.59	-23 59.3	1.545	2.558	0.9	20.7	5 31	16 35.51	-13 34.4	1.545	2.553	3.3	21.1
6 10	16 24.56	-23 34.1	1.576	2.579	4.4	21.0	6 10	16 25.80	-13 1.1	1.558	2.552	5.9	21.3
6 20	16 14.99	-23 7.7	1.634	2.600	8.8	21.3	6 20	16 17.16	-12 37.9	1.595	2.550	9.9	21.5
6 30	16 7.76	-22 43.9	1.716	2.620	12.6	21.6	6 30	16 10.50	-12 26.7	1.656	2.548	13.7	21.7
7 10	16 3.35	-22 25.9	1.818	2.639	15.7	21.9	7 10	16 6.38	-12 28.0	1.737	2.546	16.8	21.9
469236	2016 JT ₇		5 31.6 45°70	3°9/30.9 17			137391	1999 TF ₁₅₈		5 31.6 207°01	2°7/1.5 17		
5 1	17 0.05	-13 19.8											

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
160496	2007 <i>CE</i> ₅₅		5 31.6 157°31'	6°9'/27.9 18			346735	2009 <i>AV</i> ₅₀		5 31.6 43°67'	1°7'/31.1 17		
5 1	16 54.32	+ 2 5.9	2.818	3.658	9.9	20.7	5 1	16 57.31	-18 6.3	1.827	2.718	12.1	20.5
5 11	16 48.92	+ 2 57.3	2.765	3.663	8.3	20.6	5 11	16 51.57	-17 52.0	1.770	2.725	8.5	20.3
5 21	16 42.43	+ 3 37.8	2.736	3.668	7.2	20.5	5 21	16 44.02	-17 37.5	1.736	2.733	4.6	20.1
5 31	16 35.35	+ 4 4.2	2.734	3.672	6.9	20.5	5 31	16 35.49	-17 24.3	1.729	2.741	1.7	19.9
6 10	16 28.31	+ 4 14.9	2.758	3.677	7.8	20.6	6 10	16 27.01	-17 14.0	1.748	2.749	4.5	20.1
6 20	16 21.86	+ 4 9.4	2.807	3.680	9.3	20.7	6 20	16 19.51	-17 8.4	1.794	2.757	8.4	20.3
6 30	16 16.49	+ 3 48.6	2.879	3.684	11.0	20.8	6 30	16 13.78	-17 9.1	1.863	2.766	11.8	20.6
7 10	16 12.57	+ 3 14.6	2.972	3.687	12.5	20.9	7 10	16 10.31	-17 16.8	1.953	2.774	14.8	20.8
470252	2006 <i>YJ</i> ₇		5 31.6 223°72'	1°5'/31.1 18			291769	2006 <i>KP</i> ₂₅		5 31.6 317°33'	0°2'/31.7 17		
5 1	16 57.71	-16 24.3	2.736	3.611	9.1	22.0	5 1	16 57.67	-22 56.2	1.134	2.044	16.4	20.4
5 11	16 51.49	-16 28.8	2.653	3.601	6.5	21.8	5 11	16 53.25	-22 53.5	1.050	2.015	11.8	20.0
5 21	16 43.88	-16 34.6	2.597	3.591	3.6	21.6	5 21	16 45.58	-22 44.9	0.986	1.986	6.5	19.7
5 31	16 35.45	-16 42.0	2.569	3.580	1.5	21.4	5 31	16 35.62	-22 30.2	0.944	1.958	0.5	19.1
6 10	16 26.89	-16 51.6	2.571	3.568	3.5	21.6	6 10	16 24.97	-22 11.1	0.925	1.931	5.9	19.4
6 20	16 18.90	-17 3.9	2.601	3.557	6.5	21.7	6 20	16 15.41	-21 51.2	0.927	1.904	12.0	19.7
6 30	16 12.10	-17 19.8	2.658	3.545	9.3	21.9	6 30	16 8.57	-21 35.5	0.949	1.879	17.7	19.9
7 10	16 6.95	-17 39.6	2.738	3.532	11.7	22.0	7 10	16 5.49	-21 28.2	0.986	1.854	22.6	20.1
500877	2013 <i>JE</i> ₆₄		5 31.6 29°22'	0°1'/30.9 17			133501	2003 <i>ST</i> ₂₈₂		5 31.6 327°02'	5°5'/2.5 17		
5 1	16 37.54	-16 47.9	36.589	37.467	0.8	24.0	5 1	16 58.94	-35 23.4	1.516	2.390	15.2	19.1
5 11	16 36.74	-16 46.0	36.523	37.472	0.5	24.0	5 11	16 53.56	-35 35.7	1.438	2.375	11.7	18.9
5 21	16 35.87	-16 44.1	36.484	37.478	0.3	24.0	5 21	16 45.43	-35 31.1	1.382	2.361	8.2	18.6
5 31	16 34.97	-16 42.4	36.474	37.484	0.1	23.9	5 31	16 35.59	-35 6.6	1.348	2.347	5.7	18.5
6 10	16 34.07	-16 41.0	36.494	37.490	0.3	24.0	6 10	16 25.53	-34 22.7	1.339	2.334	6.7	18.5
6 20	16 33.19	-16 39.8	36.541	37.496	0.5	24.0	6 20	16 16.72	-33 24.0	1.355	2.321	10.1	18.6
6 30	16 32.38	-16 39.0	36.617	37.502	0.8	24.0	6 30	16 10.39	-32 17.5	1.392	2.310	14.0	18.8
7 10	16 31.67	-16 38.6	36.717	37.508	1.0	24.0	7 10	16 7.28	-31 10.8	1.449	2.299	17.6	19.0
471658	2012 <i>TK</i> ₁₃₄		5 31.6 271°13'	2°6'/1.4 17			351947	2006 <i>TC</i> ₈₁		5 31.6 191°61'	3°6'/1.9 17		
5 1	17 0.13	-29 0.8	1.910	2.785	12.4	21.6	5 1	16 59.69	-32 32.0	2.265	3.126	11.3	21.3
5 11	16 53.84	-29 14.6	1.829	2.773	9.1	21.3	5 11	16 53.25	-32 55.3	2.193	3.125	8.5	21.2
5 21	16 45.36	-29 19.7	1.771	2.761	5.5	21.1	5 21	16 44.94	-33 8.7	2.145	3.125	5.6	21.0
5 31	16 35.54	-29 14.8	1.739	2.748	2.7	20.9	5 31	16 35.56	-33 10.7	2.124	3.124	3.6	20.9
6 10	16 25.51	-29 0.1	1.735	2.735	4.5	21.0	6 10	16 26.09	-33 1.3	2.130	3.124	4.7	20.9
6 20	16 16.39	-28 37.9	1.757	2.723	8.3	21.2	6 20	16 17.50	-32 42.5	2.164	3.123	7.4	21.1
6 30	16 9.19	-28 12.2	1.803	2.710	11.9	21.4	6 30	16 10.60	-32 17.7	2.223	3.122	10.3	21.3
7 10	16 4.55	-27 47.0	1.870	2.697	15.1	21.6	7 10	16 5.96	-31 50.8	2.303	3.121	12.9	21.4
59959	1999 <i>RV</i> ₂₃₃		5 31.6 300°42'	5°1'/1.8 18			162493	2000 <i>QY</i> ₇		5 31.6 258°72'	2°2'/1.3 18		
5 1	17 1.34	-35 21.0	2.208	3.059	11.9	19.2	5 1	17 3.03	-28 4.3	1.596	2.476	14.1	19.8
5 11	16 54.64	-36 17.2	2.132	3.054	9.3	19.0	5 11	16 56.28	-28 2.2	1.511	2.459	10.4	19.5
5 21	16 45.78	-37 2.9	2.080	3.048	6.7	18.8	5 21	16 46.84	-27 49.7	1.449	2.441	6.0	19.2
5 31	16 35.57	-37 34.5	2.054	3.043	5.2	18.7	5 31	16 35.68	-27 25.4	1.412	2.423	2.3	18.9
6 10	16 25.09	-37 50.6	2.056	3.037	6.0	18.7	6 10	16 24.21	-26 50.5	1.401	2.404	5.0	19.1
6 20	16 15.45	-37 52.3	2.084	3.032	8.4	18.9	6 20	16 13.82	-26 8.9	1.416	2.385	9.6	19.3
6 30	16 7.63	-37 42.7	2.137	3.027	11.1	19.0	6 30	16 5.75	-25 26.1	1.455	2.365	14.0	19.5
7 10	16 2.31	-37 26.6	2.211	3.022	13.6	19.2	7 10	16 0.75	-24 47.6	1.513	2.345	17.8	19.7
495878	2004 <i>RQ</i> ₁₇₁		5 31.6 275°06'	0°9'/31.9 17			394020	2005 <i>VD</i> ₁₁₉		5 31.6 299°43'	2°1'/30.9 18		
5 1	17 2.26	-24 44.6	1.429	2.321	14.8	21.6	5 1	16 56.44	-16 39.9	2.058	2.945	11.1	20.8
5 11	16 55.93	-24 39.2	1.345	2.300	10.7	21.3	5 11	16 51.05	-16 23.8	1.968	2.921	8.0	20.6
5 21	16 46.73	-24 26.0	1.282	2.279	5.9	21.0	5 21	16 43.84	-16 8.0	1.902	2.898	4.5	20.3
5 31	16 35.63	-24 4.5	1.244	2.258	1.0	20.6	5 31	16 35.50	-15 54.2	1.864	2.874	2.1	20.1
6 10	16 24.10	-23 36.2	1.231	2.236	5.1	20.8	6 10	16 26.91	-15 44.1	1.852	2.850	4.7	20.2
6 20	16 13.66	-23 4.9	1.244	2.214	10.4	21.1	6 20	16 18.99	-15 39.5	1.867	2.826	8.4	20.4
6 30	16 5.64	-22 35.4	1.278	2.192	15.3	21.3	6 30	16 12.57	-15 41.9	1.906	2.803	11.9	20.6
7 10	16 0.90	-22 12.6	1.331	2.169	19.5	21.5	7 10	16 8.25	-15 52.1	1.966	2.779	15.0	20.7
489753	2007 <i>YQ</i> ₆₆		5 31.6 141°78'	1°5'/31.2 16			63207	2001 <i>AK</i> ₆		5 31.6 247°25'	2°6'/30.7 18		
5 1	17 1.90	-18 36.0	1.769	2.654	12.8	22.6	5 1	17 0.41	-18 0.5	1.608	2.499	13.5	19.9
5 11	16 54.81	-18 23.6	1.711	2.663	9.0	22.4	5 11	16 54.11	-17 15.6	1.533	2.489	9.6	19.6
5 21	16 45.73	-18 10.2	1.676	2.672	4.8	22.2	5 21	16 45.53	-16 28.1	1.482	2.478	5.4	19.4
5 31	16 35.57	-17 57.2	1.668	2.681	1.5	22.0	5 31	16 35.60	-15 41.1	1.456	2.466	2.6	19.2
6 10	16 25.46	-17 46.1	1.688	2.688	4.7	22.2	6 10	16 25.54	-14 58.4	1.457	2.455	5.7	19.3
6 20	16 16.46	-17 38.9	1.734	2.696	8.7	22.4	6 20	16 16.51	-14 24.0	1.483	2.442	10.1	19.5
6 30	16 9.44	-17 37.5	1.805	2.702	12.4	22.7	6 30	16 9.54	-14 0.8	1.532	2.430	14.2	19.8
7 10	16 4.91	-17 43.1	1.896	2.708	15.5	22.9	7 10	16 5.25	-13 50.4	1.601	2.417	17.7	20.0
354803	2005 <i>VZ</i> ₂₅		5 31.6 334°16'	3°0'/1.6 17			376319	2011 <i>GJ</i> ₄₅		5 31.6 135°34'	2°6'/30.7 17		
5 1	16 57.70	-30 19.9	1.967	2.842	12.1	20.6	5 1	16 59.49	-15 52.1	1.977	2.861	11.7	21.7
5 11	16 52.04	-30 34.3	1.892	2.835	9.0	20.4	5 11	16 52.94	-15 23.3	1.919	2.870	8.3	21.5
5 21	16 44.35	-30 39.3	1.842	2.829	5.6	20.1	5 21	16 44.69	-14 55.5	1.886	2.880	4.8	21.3
5 31	16 35.49	-30 33.6	1.817	2.823	3.1	20.0	5 31	16 35.55	-14 30.9	1.880	2.889	2.6	21.2
6 10	16 26.50	-30 17.9	1.818	2.817	4.6	20.0	6 10	16 26.48	-14 11.5	1.902	2.897	4.9	21.3
6 20	16 18.44	-29 54.3	1.846	2.812	7.9	20.2	6 20	16 18.38	-13 59.3	1.951	2.905	8.4	21.5
6 30	16 12.20	-29 26.7	1.898	2.807	11.3	20.4	6 30	16 11.97	-13 55.7	2.024	2.913	11.7	21.8
7 10	16 8.38	-28 59.1	1.972	2.803	14.3	20.6	7 10	16 7.73	-14 0.9	2.118	2.920	14.4	22.0
381546	2008 <i>TZ</i> ₁₉		5 31.6 45°20'	5°8'/28.8 17			14882	1991 <					

EPHEMERIDES

5 31.6

5 31.7

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
142476	2002 <i>TW</i> ₁₇		5 31.6 301°97	0°3/31.6	18		75324	1999 <i>XV</i> ₄₈		5 31.7 115°05	0°7/31.9	18	
5 1	17 0.41	-21 13.8	1.469	2.364	14.3	19.7	5 1	17 1.14	-25 1.8	1.539	2.428	14.1	19.2
5 11	16 54.35	-21 19.5	1.400	2.358	10.1	19.4	5 11	16 54.65	-24 42.5	1.477	2.432	10.0	18.9
5 21	16 45.76	-21 22.5	1.353	2.351	5.4	19.2	5 21	16 45.81	-24 15.1	1.438	2.435	5.4	18.7
5 31	16 35.63	-21 23.0	1.331	2.345	0.4	18.8	5 31	16 35.67	-23 40.5	1.424	2.438	0.8	18.3
6 10	16 25.32	-21 21.7	1.334	2.338	4.9	19.1	6 10	16 25.57	-23 1.5	1.437	2.441	4.6	18.6
6 20	16 16.14	-21 20.8	1.362	2.332	9.8	19.3	6 20	16 16.75	-22 22.2	1.474	2.444	9.2	18.9
6 30	16 9.24	-21 22.7	1.413	2.326	14.2	19.6	6 30	16 10.20	-21 47.1	1.535	2.447	13.3	19.1
7 10	16 5.29	-21 29.9	1.483	2.321	17.9	19.8	7 10	16 6.49	-21 19.6	1.616	2.450	16.8	19.4
320448	2007 <i>VX</i> ₁₉₄		5 31.6 151°51	1°3/1.2	17		62584	2000 <i>SP</i> ₂₉₃		5 31.7 89°63	8°9/3.4	18	
5 1	17 3.22	-26 51.5	1.917	2.790	12.5	22.4	5 1	17 6.41	-48 8.2	2.326	3.116	13.4	18.9
5 11	16 55.72	-26 39.1	1.854	2.800	8.9	22.2	5 11	16 58.55	-49 21.9	2.262	3.120	11.5	18.8
5 21	16 46.22	-26 18.4	1.815	2.808	5.0	22.0	5 21	16 48.02	-50 17.0	2.221	3.125	9.9	18.7
5 31	16 35.66	-25 49.3	1.804	2.816	1.4	21.7	5 31	16 35.82	-50 48.5	2.203	3.129	9.0	18.6
6 10	16 25.20	-25 14.1	1.821	2.823	4.0	21.9	6 10	16 23.35	-50 54.3	2.211	3.134	9.2	18.6
6 20	16 15.87	-24 36.0	1.865	2.830	7.9	22.2	6 20	16 12.03	-50 36.5	2.242	3.139	10.4	18.7
6 30	16 8.55	-23 59.2	1.934	2.836	11.5	22.4	6 30	16 3.05	-49 59.9	2.297	3.143	12.0	18.8
7 10	16 3.73	-23 27.3	2.025	2.841	14.5	22.6	7 10	15 57.15	-49 11.8	2.371	3.148	13.8	19.0
2577	Litva		5 31.6 131°70	17°3/24.5	18		257173	2008 <i>JF</i> ₁₃		5 31.7 302°08	2°9/29.7	18	
5 1	17 3.61	+10 39.4	1.224	2.062	20.3	16.2	5 1	16 49.20	-7 44.0	4.271	5.137	6.3	20.4
5 11	16 56.36	+13 16.6	1.199	2.074	18.4	16.1	5 11	16 45.18	-7 25.2	4.201	5.134	4.8	20.3
5 21	16 46.64	+15 20.5	1.193	2.086	17.4	16.1	5 21	16 40.45	-7 10.3	4.157	5.131	3.4	20.2
5 31	16 35.69	+16 39.9	1.206	2.097	17.6	16.1	5 31	16 35.34	-7 0.3	4.142	5.129	2.9	20.1
6 10	16 25.00	+17 10.2	1.239	2.107	18.8	16.2	6 10	16 30.22	-6 56.3	4.156	5.126	3.7	20.2
6 20	16 15.88	+16 53.6	1.289	2.116	20.6	16.4	6 20	16 25.43	-6 58.5	4.198	5.123	5.2	20.3
6 30	16 9.32	+15 56.9	1.354	2.125	22.5	16.6	6 30	16 21.30	-7 7.3	4.265	5.121	6.7	20.4
7 10	16 5.80	+14 30.0	1.431	2.133	24.3	16.7	7 10	16 18.09	-7 22.2	4.356	5.118	8.2	20.5
317735	2003 <i>SF</i> ₃		5 31.6 279°16	1°0/31.4	17		44074	1998 <i>FB</i> ₆₆		5 31.7 336°37	1°7/1.2	17	
5 1	17 0.62	-20 59.6	1.480	2.375	14.2	21.3	5 1	16 59.23	-26 24.1	1.599	2.488	13.7	19.1
5 11	16 54.60	-20 37.2	1.398	2.355	10.2	21.0	5 11	16 53.39	-26 28.6	1.531	2.484	9.9	18.8
5 21	16 45.96	-20 10.0	1.338	2.336	5.5	20.7	5 21	16 45.21	-26 25.2	1.485	2.480	5.6	18.6
5 31	16 35.66	-19 39.6	1.303	2.317	1.0	20.4	5 31	16 35.64	-26 13.4	1.464	2.476	1.8	18.3
6 10	16 25.03	-19 8.6	1.294	2.297	5.2	20.6	6 10	16 25.97	-25 54.4	1.469	2.473	4.6	18.5
6 20	16 15.43	-18 40.7	1.310	2.277	10.3	20.8	6 20	16 17.42	-25 31.1	1.499	2.470	9.0	18.7
6 30	16 8.06	-18 19.8	1.348	2.257	15.0	21.0	6 30	16 11.03	-25 7.6	1.552	2.467	13.0	19.0
7 10	16 3.69	-18 8.8	1.404	2.237	18.9	21.3	7 10	16 7.44	-24 47.7	1.625	2.465	16.5	19.2
399057	2013 <i>YX</i> ₁₅		5 31.6 249°66	5°9/30.0	18		118377	1999 <i>HW</i> ₇		5 31.7 84°69	4°1/29.9	18	
5 1	16 59.57	-4 38.8	2.127	2.991	11.8	20.7	5 1	16 59.44	-14 14.5	1.669	2.559	13.1	19.9
5 11	16 53.10	-4 23.8	2.046	2.975	9.2	20.5	5 11	16 53.01	-13 8.9	1.624	2.576	9.4	19.7
5 21	16 44.89	-4 18.9	1.989	2.959	6.9	20.4	5 21	16 44.75	-12 5.8	1.602	2.593	5.8	19.6
5 31	16 35.60	-4 26.9	1.959	2.942	5.9	20.3	5 31	16 35.61	-11 9.4	1.607	2.610	4.2	19.5
6 10	16 26.11	-4 49.0	1.956	2.924	7.3	20.3	6 10	16 26.68	-10 23.9	1.638	2.626	6.4	19.7
6 20	16 17.30	-5 25.4	1.979	2.906	10.0	20.4	6 20	16 18.94	-9 52.1	1.695	2.643	9.9	19.9
6 30	16 9.96	-6 14.9	2.027	2.888	12.8	20.6	6 30	16 13.13	-9 35.2	1.775	2.659	13.3	20.1
7 10	16 4.67	-7 15.2	2.096	2.869	15.5	20.7	7 10	16 9.69	-9 32.8	1.874	2.675	16.1	20.4
125765	2001 <i>XO</i> ₁₃₆		5 31.7 290°77	0°7/31.5	18		260654	2005 <i>GN</i> ₁₆₁		5 31.7 43°58	6°9/29.9	17	
5 1	16 59.77	-20 21.7	1.613	2.505	13.4	19.6	5 1	16 58.79	-8 24.3	1.284	2.180	15.8	19.9
5 11	16 53.89	-20 21.4	1.528	2.484	9.6	19.3	5 11	16 53.02	-7 36.3	1.239	2.189	11.9	19.7
5 21	16 45.56	-20 19.2	1.465	2.463	5.1	19.0	5 21	16 44.94	-6 59.1	1.215	2.199	8.4	19.5
5 31	16 35.65	-20 15.3	1.428	2.441	0.8	18.6	5 31	16 35.63	-6 37.6	1.215	2.209	7.0	19.5
6 10	16 25.36	-20 11.1	1.417	2.420	4.8	18.9	6 10	16 26.45	-6 34.9	1.238	2.219	9.0	19.6
6 20	16 15.96	-20 8.4	1.431	2.399	9.6	19.1	6 20	16 18.61	-6 51.5	1.283	2.230	12.5	19.8
6 30	16 8.58	-20 9.6	1.468	2.377	14.0	19.3	6 30	16 13.08	-7 25.9	1.350	2.241	16.2	20.1
7 10	16 4.00	-20 16.9	1.525	2.356	17.8	19.5	7 10	16 10.37	-8 14.7	1.433	2.252	19.3	20.3
518752	2009 <i>SU</i> ₃₇₁		5 31.7 203°46	0°8/31.9	17		472892	2015 <i>FO</i> ₃₂₆		5 31.7 290°31	1°7/31.2	17	
5 1	17 1.43	-24 2.2	1.942	2.821	12.1	22.2	5 1	16 58.74	-17 36.4	1.817	2.706	12.3	20.8
5 11	16 54.61	-24 10.5	1.868	2.818	8.6	22.0	5 11	16 52.74	-17 34.7	1.748	2.702	8.7	20.6
5 21	16 45.74	-24 14.1	1.819	2.814	4.7	21.7	5 21	16 44.76	-17 33.7	1.702	2.698	4.8	20.3
5 31	16 35.67	-24 12.4	1.797	2.810	0.9	21.5	5 31	16 35.62	-17 34.2	1.682	2.694	1.7	20.1
6 10	16 25.47	-24 6.2	1.803	2.806	4.0	21.7	6 10	16 26.38	-17 37.3	1.689	2.690	4.6	20.3
6 20	16 16.21	-23 57.1	1.835	2.801	8.0	21.9	6 20	16 18.05	-17 44.2	1.723	2.686	8.6	20.5
6 30	16 8.80	-23 48.1	1.893	2.796	11.7	22.1	6 30	16 11.51	-17 56.3	1.781	2.682	12.3	20.7
7 10	16 3.83	-23 41.8	1.972	2.790	14.8	22.3	7 10	16 7.34	-18 14.2	1.858	2.679	15.5	20.9
165536	2001 <i>DC</i> ₆		5 31.7 191°99	0°0/31.5	17		253149	2002 <i>VD</i> ₇₉		5 31.7 258°53	1°9/31.2	18	
5 1	17 2.98	-21 54.1	1.982	2.859	12.0	20.5	5 1	17 0.89	-17 13.3	1.693	2.582	13.1	20.4
5 11	16 55.63	-21 58.9	1.908	2.858	8.5	20.3	5 11	16 54.48	-17 12.9	1.615	2.569	9.3	20.1
5 21	16 46.25	-22 0.4	1.860	2.856	4.5	20.0	5 21	16 45.80	-17 13.7	1.560	2.556	5.2	19.8
5 31	16 35.70	-21 58.6	1.839	2.853	0.3	19.7	5 31	16 35.70	-17 16.4	1.531	2.543	1.9	19.6
6 10	16 25.04	-21 54.2	1.846	2.849	4.0	20.0	6 10	16 25.34	-17 22.2	1.529	2.529	5.0	19.8
6 20	16 15.31	-21 48.8	1.881	2.844	8.0	20.2	6 20	16 15.89	-17 32.1	1.553	2.516	9.4	20.0
6 30	16 7.41	-21 44.9	1.941	2.839	11.7	20.4	6 30	16 8.40	-17 47.7	1.600	2.502	13.5	20.2
7 10	16 1.93	-21 44.7	2.023	2.833	14.7	20.6	7 10	16 3.54	-18 9.8	1.667	2.488	17.0	20.4
431019	2005 <i>YY</i> ₁₄₅		5 31.7 218°77	4°9/2.0	18		61990	2000 <i>RG</i> ₃₃		5 31.7 291°09	5°6/2.5</		

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5 31.7

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
512727	2016 <i>UZ</i> ₂₀		5 31.7 224°08	0°6/31.9	18		414026	Bochonko		5 31.7 283°44	5°9/2.0	17	
5 1	16 57.31	-23 36.8	2.618	3.492	9.5	22.1	5 1	17 4.27	-34 19.2	1.418	2.291	16.0	21.0
5 11	16 51.34	-23 46.1	2.539	3.486	6.7	21.9	5 11	16 57.81	-34 50.4	1.331	2.268	12.5	20.7
5 21	16 43.89	-23 52.0	2.486	3.481	3.6	21.7	5 21	16 48.00	-35 6.3	1.264	2.244	8.6	20.5
5 31	16 35.60	-23 54.5	2.461	3.475	0.6	21.5	5 31	16 35.91	-35 2.0	1.221	2.221	6.0	20.2
6 10	16 27.20	-23 53.9	2.465	3.468	3.1	21.7	6 10	16 23.21	-34 35.8	1.203	2.196	7.3	20.2
6 20	16 19.44	-23 51.5	2.498	3.462	6.3	21.9	6 20	16 11.71	-33 50.9	1.208	2.172	11.3	20.4
6 30	16 12.98	-23 48.8	2.556	3.455	9.2	22.0	6 30	16 3.00	-32 54.7	1.235	2.148	15.8	20.6
7 10	16 8.29	-23 47.8	2.638	3.448	11.7	22.2	7 10	15 58.04	-31 56.2	1.280	2.123	19.8	20.8
47146	1999 <i>RZ</i> ₁₈		5 31.7 317°29	4°8/29.7	18		199621	2006 <i>FL</i> ₄₅		5 31.7 203°58	3°2/30.7	18	
5 1	16 55.07	-10 1.4	2.033	2.917	11.4	19.0	5 1	16 58.22	-14 14.2	1.879	2.766	12.0	19.7
5 11	16 49.95	-9 17.8	1.963	2.909	8.5	18.8	5 11	16 52.26	-13 51.8	1.814	2.765	8.7	19.5
5 21	16 43.21	-8 39.2	1.918	2.901	5.8	18.6	5 21	16 44.47	-13 32.2	1.772	2.764	5.2	19.3
5 31	16 35.55	-8 8.9	1.899	2.894	4.8	18.5	5 31	16 35.67	-13 17.5	1.757	2.764	3.2	19.1
6 10	16 27.84	-7 49.8	1.906	2.886	6.5	18.6	6 10	16 26.83	-13 9.5	1.769	2.763	5.4	19.3
6 20	16 20.87	-7 43.3	1.939	2.879	9.4	18.8	6 20	16 18.88	-13 9.8	1.807	2.762	8.9	19.5
6 30	16 15.38	-7 50.1	1.995	2.872	12.3	18.9	6 30	16 12.64	-13 19.2	1.869	2.761	12.3	19.7
7 10	16 11.87	-8 9.3	2.072	2.865	15.0	19.1	7 10	16 8.62	-13 37.7	1.951	2.760	15.3	19.9
356608	2011 <i>UQ</i>		5 31.7 260°05	5°2/29.6	18		438619	2007 <i>XE</i> ₅₃		5 31.7 12°44	6°6/3.7	16	
5 1	16 56.16	-6 47.7	2.294	3.165	10.8	21.4	5 1	16 59.30	-40 0.2	1.687	2.540	14.9	19.7
5 11	16 50.59	-6 13.3	2.217	3.152	8.3	21.2	5 11	16 53.51	-40 6.8	1.625	2.544	11.9	19.5
5 21	16 43.53	-5 46.1	2.165	3.139	6.1	21.0	5 21	16 45.28	-39 53.4	1.584	2.548	8.9	19.3
5 31	16 35.58	-5 28.7	2.140	3.125	5.3	21.0	5 31	16 35.71	-39 17.9	1.567	2.553	6.8	19.2
6 10	16 27.52	-5 23.3	2.142	3.112	6.7	21.0	6 10	16 26.25	-38 21.6	1.575	2.559	7.2	19.3
6 20	16 20.10	-5 30.9	2.170	3.098	9.2	21.2	6 20	16 18.18	-37 9.9	1.607	2.565	9.6	19.4
6 30	16 14.01	-5 51.5	2.222	3.084	11.8	21.3	6 30	16 12.51	-35 50.0	1.663	2.572	12.6	19.6
7 10	16 9.72	-6 23.7	2.294	3.070	14.2	21.4	7 10	16 9.77	-34 29.4	1.739	2.580	15.5	19.8
396061	2013 <i>CL</i> ₅₅		5 31.7 160°99	3°8/30.3	16		126361	2002 <i>AA</i> ₁₇₉		5 31.7 85°73	1°0/1.0	17	R
5 1	16 56.02	-9 59.0	2.451	3.326	10.0	21.6	5 1	17 0.97	-25 11.3	1.745	2.628	13.0	20.2
5 11	16 50.34	-9 40.7	2.387	3.328	7.4	21.4	5 11	16 54.26	-25 8.2	1.692	2.643	9.2	20.0
5 21	16 43.32	-9 27.5	2.347	3.330	4.9	21.3	5 21	16 45.53	-24 58.4	1.662	2.657	5.0	19.7
5 31	16 35.57	-9 21.4	2.335	3.332	3.8	21.2	5 31	16 35.73	-24 42.0	1.659	2.672	1.1	19.5
6 10	16 27.80	-9 23.5	2.351	3.334	5.2	21.3	6 10	16 26.07	-24 20.9	1.683	2.686	4.1	19.7
6 20	16 20.70	-9 34.5	2.394	3.335	7.8	21.5	6 20	16 17.60	-23 57.9	1.733	2.700	8.2	20.0
6 30	16 14.88	-9 54.3	2.463	3.336	10.4	21.6	6 30	16 11.18	-23 36.3	1.807	2.715	11.9	20.3
7 10	16 10.77	-10 22.3	2.552	3.338	12.7	21.8	7 10	16 7.30	-23 19.3	1.902	2.729	14.9	20.5
500077	2011 <i>WJ</i> ₇₆		5 31.7 291°00	1°3/1.1	17		11861	Teruhime		5 31.7 284°47	0°7/31.9	18	
5 1	17 1.15	-26 27.1	1.281	2.177	15.9	21.3	5 1	16 58.44	-23 4.9	2.262	3.141	10.6	16.1
5 11	16 55.35	-26 7.4	1.204	2.161	11.5	21.0	5 11	16 52.39	-23 29.5	2.181	3.130	7.6	15.9
5 21	16 46.53	-25 35.9	1.147	2.144	6.4	20.6	5 21	16 44.58	-23 51.7	2.125	3.120	4.1	15.7
5 31	16 35.78	-24 52.7	1.114	2.127	1.5	20.3	5 31	16 35.69	-24 10.5	2.096	3.109	0.8	15.4
6 10	16 24.71	-24 0.7	1.105	2.110	5.4	20.5	6 10	16 26.60	-24 25.9	2.096	3.099	3.5	15.6
6 20	16 14.94	-23 5.7	1.120	2.094	10.9	20.7	6 20	16 18.20	-24 38.3	2.123	3.089	7.1	15.8
6 30	16 7.83	-22 14.3	1.156	2.077	16.0	21.0	6 30	16 11.29	-24 49.5	2.176	3.078	10.4	16.0
7 10	16 4.18	-21 32.5	1.211	2.061	20.3	21.2	7 10	16 6.44	-25 1.1	2.251	3.068	13.2	16.2
82754	2001 <i>QP</i> ₇		5 31.7 329°70	6°5/3.0	18		131567	2001 <i>VG</i> ₆₀		5 31.7 120°23	2°0/1.3	18	
5 1	17 1.75	-39 54.8	1.981	2.823	13.5	18.9	5 1	17 5.99	-27 10.5	1.636	2.513	14.1	21.0
5 11	16 55.12	-40 26.3	1.910	2.821	10.8	18.7	5 11	16 57.91	-27 20.4	1.584	2.531	10.1	20.8
5 21	16 46.13	-40 41.4	1.862	2.819	8.3	18.6	5 21	16 47.50	-27 21.4	1.556	2.548	5.7	20.5
5 31	16 35.76	-40 36.8	1.838	2.817	6.6	18.5	5 31	16 35.86	-27 12.4	1.553	2.565	2.1	20.3
6 10	16 25.28	-40 12.3	1.839	2.815	7.1	18.5	6 10	16 24.40	-26 54.6	1.579	2.581	4.6	20.5
6 20	16 15.96	-39 30.7	1.866	2.813	9.2	18.6	6 20	16 14.35	-26 31.4	1.630	2.596	8.8	20.8
6 30	16 8.82	-38 37.7	1.917	2.812	12.0	18.8	6 30	16 6.69	-26 7.0	1.706	2.611	12.6	21.1
7 10	16 4.49	-37 39.9	1.989	2.810	14.6	19.0	7 10	16 1.93	-25 45.7	1.802	2.624	15.8	21.3
420360	2012 <i>BP</i> ₉₀		5 31.7 86°59	0°0/31.7	17		113263	2002 <i>RU</i> ₁₄₄		5 31.7 187°00	0°6/31.9	18	
5 1	17 1.82	-23 45.1	1.472	2.364	14.5	21.4	5 1	16 58.71	-24 17.5	2.106	2.986	11.2	20.3
5 11	16 55.08	-23 21.1	1.420	2.376	10.2	21.2	5 11	16 52.54	-24 10.2	2.036	2.986	8.0	20.1
5 21	16 46.01	-22 50.3	1.391	2.388	5.4	20.9	5 21	16 44.61	-23 57.7	1.990	2.985	4.3	19.9
5 31	16 35.75	-22 14.1	1.387	2.401	0.4	20.6	5 31	16 35.69	-23 40.4	1.971	2.985	0.7	19.6
6 10	16 25.66	-21 35.7	1.409	2.413	4.7	21.0	6 10	16 26.73	-23 19.5	1.981	2.984	3.6	19.8
6 20	16 16.97	-20 59.2	1.456	2.425	9.3	21.3	6 20	16 18.66	-22 57.5	2.017	2.983	7.4	20.0
6 30	16 10.63	-20 28.5	1.526	2.437	13.4	21.5	6 30	16 12.23	-22 37.1	2.079	2.982	10.7	20.2
7 10	16 7.15	-20 6.7	1.616	2.449	16.9	21.8	7 10	16 7.97	-22 20.9	2.162	2.981	13.6	20.4
250408	2003 <i>UQ</i> ₂₄₂		5 31.7 151°31	1°8/31.1	17		490110	2008 <i>UA</i> ₄₂		5 31.7 273°53	0°7/31.4	18	
5 1	17 1.74	-18 25.7	1.845	2.728	12.4	21.1	5 1	16 59.56	-21 24.9	1.979	2.862	11.7	21.5
5 11	16 54.68	-17 59.5	1.785	2.737	8.8	20.9	5 11	16 53.40	-20 59.9	1.885	2.837	8.3	21.2
5 21	16 45.72	-17 32.0	1.749	2.745	4.8	20.7	5 21	16 45.22	-20 30.3	1.815	2.812	4.5	20.9
5 31	16 35.74	-17 5.0	1.740	2.752	1.8	20.5	5 31	16 35.74	-19 57.3	1.772	2.786	0.8	20.6
6 10	16 25.82	-16 40.9	1.759	2.758	4.7	20.7	6 10	16 25.97	-19 23.0	1.757	2.759	4.3	20.8
6 20	16 16.97	-16 22.1	1.805	2.764	8.6	21.0	6 20	16 16.96	-18 50.6	1.769	2.732	8.5	21.0
6 30	16 10.01	-16 10.6	1.875	2.770	12.2	21.2	6 30	16 9.62	-18 23.2	1.805	2.705	12.3	21.2
7 10	16 5.45	-16 7.7	1.966	2.774	15.2	21.4	7 10	16 4.61	-18 3.5	1.863	2.677	15.7	21.3
295587	2008 <i>SL</i> ₁₃₀		5 31.7 13°50	8°4/2.2	18		220979	2005 <i>MS</i> ₉		5 31.7 243°91	1°0/31.3	18	

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
427883	2005 SB ₁₇₈		5 31.7 126°03	4.8/ 2.3 17			260961	2005 SM ₄₁		5 31.7 334°81	5.9/ 2.4 18		
5 1	17 3.99	-34 43.7	1.858	2.716	13.5	21.8	5 1	16 59.91	-37 1.4	1.917	2.772	13.3	19.7
5 11	16 56.59	-35 9.8	1.797	2.725	10.3	21.6	5 11	16 53.92	-37 41.4	1.842	2.765	10.5	19.5
5 21	16 46.85	-35 22.1	1.759	2.734	7.1	21.4	5 21	16 45.58	-38 7.6	1.790	2.758	7.7	19.3
5 31	16 35.83	-35 18.0	1.746	2.743	4.9	21.3	5 31	16 35.79	-38 16.6	1.763	2.751	6.0	19.2
6 10	16 24.83	-34 57.9	1.761	2.751	5.8	21.4	6 10	16 25.80	-38 7.6	1.762	2.745	6.6	19.2
6 20	16 15.08	-34 24.9	1.801	2.759	8.7	21.6	6 20	16 16.84	-37 43.0	1.786	2.739	9.1	19.4
6 30	16 7.57	-33 44.5	1.866	2.767	11.9	21.8	6 30	16 9.96	-37 7.2	1.833	2.734	12.1	19.5
7 10	16 2.88	-33 2.4	1.952	2.774	14.8	22.0	7 10	16 5.85	-36 26.4	1.901	2.729	14.9	19.7
71270	2000 AZ ₃₁		5 31.7 185°44	3.8/ 2.2 18			19636	1999 RD ₄₈		5 31.7 208°07	0.7/31.4 18		
5 1	17 1.38	-34 7.5	2.297	3.150	11.4	19.7	5 1	16 56.55	-20 20.9	2.778	3.654	9.0	19.0
5 11	16 54.45	-34 17.7	2.223	3.150	8.7	19.5	5 11	16 50.71	-20 8.5	2.700	3.649	6.3	18.9
5 21	16 45.64	-34 16.5	2.173	3.149	5.8	19.3	5 21	16 43.55	-19 54.3	2.648	3.643	3.4	18.6
5 31	16 35.76	-34 2.2	2.150	3.149	3.9	19.2	5 31	16 35.67	-19 38.9	2.624	3.637	0.7	18.4
6 10	16 25.85	-33 35.5	2.155	3.147	4.8	19.3	6 10	16 27.72	-19 23.5	2.630	3.631	3.1	18.6
6 20	16 16.88	-32 59.2	2.188	3.146	7.4	19.4	6 20	16 20.38	-19 9.7	2.664	3.624	6.1	18.8
6 30	16 9.66	-32 17.2	2.246	3.144	10.3	19.6	6 30	16 14.23	-18 58.9	2.725	3.617	8.9	19.0
7 10	16 4.75	-31 34.2	2.326	3.141	12.9	19.8	7 10	16 9.70	-18 52.6	2.809	3.610	11.3	19.1
106362	2000 VB ₈		5 31.7 268°64	0.0/31.6 18			7782	Mony		5 31.7 271°78	1.0/ 1.2 18		
5 1	16 56.98	-22 54.9	2.249	3.130	10.6	20.3	5 1	16 57.97	-27 8.8	2.645	3.514	9.6	18.8
5 11	16 51.29	-22 42.9	2.171	3.122	7.5	20.1	5 11	16 51.89	-26 40.8	2.544	3.488	6.9	18.6
5 21	16 43.95	-22 26.9	2.118	3.114	4.0	19.9	5 21	16 44.27	-26 5.1	2.469	3.461	3.9	18.3
5 31	16 35.66	-22 7.4	2.092	3.106	0.3	19.5	5 31	16 35.72	-25 22.2	2.422	3.434	1.0	18.1
6 10	16 27.29	-21 45.9	2.095	3.098	3.5	19.8	6 10	16 27.02	-24 33.8	2.404	3.407	3.2	18.2
6 20	16 19.67	-21 24.6	2.125	3.090	7.1	20.0	6 20	16 18.95	-23 42.8	2.416	3.380	6.5	18.4
6 30	16 13.54	-21 5.8	2.180	3.082	10.4	20.2	6 30	16 12.19	-22 52.5	2.454	3.352	9.5	18.5
7 10	16 9.40	-20 51.8	2.257	3.074	13.2	20.4	7 10	16 7.25	-22 6.3	2.515	3.323	12.2	18.6
80611	2000 AU ₁₆₃		5 31.7 22°22	4.6/30.6 17			392420	2010 MX ₈₂		5 31.7 283°85	0.7/31.4 18		
5 1	16 59.41	-12 2.9	1.424	2.319	14.6	19.2	5 1	16 56.63	-20 33.5	2.260	3.143	10.4	21.3
5 11	16 53.49	-11 41.8	1.367	2.321	10.7	19.0	5 11	16 51.09	-20 21.2	2.175	3.127	7.4	21.1
5 21	16 45.27	-11 27.2	1.332	2.323	6.7	18.8	5 21	16 43.89	-20 6.5	2.114	3.111	3.9	20.9
5 31	16 35.75	-11 21.9	1.321	2.325	4.6	18.6	5 31	16 35.70	-19 50.2	2.081	3.094	0.7	20.6
6 10	16 26.21	-11 27.9	1.335	2.328	7.0	18.8	6 10	16 27.35	-19 34.0	2.076	3.078	3.7	20.8
6 20	16 17.84	-11 45.9	1.373	2.330	11.0	19.0	6 20	16 19.68	-19 19.5	2.098	3.062	7.3	21.0
6 30	16 11.65	-12 15.9	1.433	2.333	14.9	19.3	6 30	16 13.43	-19 8.8	2.145	3.045	10.6	21.1
7 10	16 8.22	-12 56.3	1.512	2.336	18.2	19.5	7 10	16 9.15	-19 3.6	2.214	3.029	13.5	21.3
504517	2008 RA ₆		5 31.7 336°29	10.1/ 3.9 17			232923	Adalovelace		5 31.7 174°18	0.5/31.9 18		
5 1	17 4.04	-45 12.4	1.566	2.398	16.9	20.3	5 1	16 59.43	-23 58.7	2.027	2.908	11.6	21.3
5 11	16 57.55	-46 5.3	1.497	2.392	14.2	20.1	5 11	16 53.11	-23 53.9	1.958	2.909	8.2	21.1
5 21	16 47.76	-46 34.7	1.448	2.386	11.8	19.9	5 21	16 44.95	-23 44.0	1.914	2.910	4.4	20.8
5 31	16 35.91	-46 34.3	1.421	2.381	10.2	19.8	5 31	16 35.77	-23 29.4	1.897	2.910	0.6	20.5
6 10	16 23.86	-46 2.5	1.417	2.376	10.5	19.8	6 10	16 26.55	-23 11.3	1.907	2.911	3.7	20.8
6 20	16 13.41	-45 3.0	1.435	2.371	12.3	19.9	6 20	16 18.24	-22 52.1	1.945	2.911	7.6	21.0
6 30	16 6.00	-43 44.4	1.475	2.367	15.0	20.0	6 30	16 11.66	-22 34.4	2.007	2.911	11.1	21.2
7 10	16 2.37	-42 17.0	1.534	2.364	17.7	20.2	7 10	16 7.34	-22 20.9	2.091	2.911	14.0	21.4
62179	2000 SR ₃₇		5 31.7 4°78	8.9/ 1.8 18			150359	2000 AO ₂₂₉		5 31.7 180°62	1.9/ 1.1 18		
5 1	17 4.94	-38 44.2	1.453	2.311	16.5	18.5	5 1	17 5.32	-25 54.2	1.498	2.381	14.8	20.2
5 11	16 58.26	-40 20.0	1.392	2.311	13.4	18.3	5 11	16 57.87	-26 12.6	1.432	2.382	10.6	19.9
5 21	16 48.21	-41 39.2	1.352	2.312	10.5	18.1	5 21	16 47.72	-26 23.7	1.389	2.383	6.0	19.7
5 31	16 35.95	-42 33.8	1.336	2.312	8.9	18.1	5 31	16 35.95	-26 25.6	1.371	2.383	2.0	19.4
6 10	16 23.27	-43 0.0	1.343	2.314	9.7	18.1	6 10	16 24.06	-26 18.8	1.380	2.383	5.0	19.6
6 20	16 12.04	-42 59.4	1.374	2.316	12.2	18.2	6 20	16 13.49	-26 5.7	1.414	2.382	9.7	19.9
6 30	16 3.79	-42 38.5	1.425	2.319	15.3	18.4	6 30	16 5.42	-25 50.8	1.471	2.381	14.0	20.1
7 10	15 59.41	-42 6.1	1.495	2.322	18.2	18.6	7 10	16 0.51	-25 38.4	1.548	2.379	17.6	20.4
435615	2008 SO ₉₅		5 31.7 240°15	1.5/31.1 17			258856	2002 PM ₁₃₆		5 31.7 294°02	1.6/31.3 17		
5 1	16 58.52	-19 43.3	1.932	2.819	11.8	21.3	5 1	17 0.68	-18 48.6	1.473	2.368	14.2	20.8
5 11	16 52.51	-19 10.5	1.859	2.812	8.3	21.1	5 11	16 54.87	-18 39.6	1.381	2.338	10.3	20.5
5 21	16 44.65	-18 34.8	1.810	2.806	4.5	20.8	5 21	16 46.32	-18 29.5	1.311	2.308	5.6	20.2
5 31	16 35.72	-17 58.1	1.787	2.800	1.5	20.6	5 31	16 35.88	-18 19.2	1.265	2.278	1.6	19.8
6 10	16 26.74	-17 23.1	1.793	2.793	4.4	20.8	6 10	16 24.85	-18 10.7	1.245	2.247	5.5	20.0
6 20	16 18.64	-16 52.8	1.824	2.786	8.4	21.0	6 20	16 14.66	-18 6.3	1.250	2.217	10.8	20.2
6 30	16 12.26	-16 29.9	1.881	2.779	12.0	21.2	6 30	16 6.63	-18 8.8	1.276	2.186	15.6	20.4
7 10	16 8.14	-16 15.9	1.958	2.772	15.0	21.4	7 10	16 1.65	-18 20.1	1.321	2.156	19.8	20.6
500089	2011 YE ₇₃		5 31.7 143°11	3.5/ 1.8 17			255665	2006 QC ₃₃		5 31.7 310°14	5.9/ 2.1 18		
5 1	17 4.47	-30 56.8	1.634	2.506	14.3	22.0	5 1	17 2.07	-34 7.9	1.352	2.231	16.3	19.7
5 11	16 57.06	-31 6.1	1.572	2.513	10.6	21.8	5 11	16 56.16	-34 41.4	1.279	2.219	12.6	19.4
5 21	16 47.16	-31 3.0	1.533	2.520	6.6	21.5	5 21	16 47.06	-34 59.3	1.226	2.207	8.7	19.2
5 31	16 35.88	-30 45.7	1.519	2.526	3.6	21.4	5 31	16 35.92	-34 57.1	1.196	2.195	6.0	19.0
6 10	16 24.65	-30 15.5	1.532	2.532	5.2	21.5	6 10	16 24.43	-34 34.1	1.189	2.184	7.3	19.0
6 20	16 14.77	-29 36.5	1.571	2.537	9.1	21.7	6 20	16 14.31	-33 53.8	1.206	2.173	11.1	19.2
6 30	16 7.30	-28 54.1	1.634	2.542	12.9	21.9	6 30	16 7.03	-33 3.5	1.245	2.162	15.3	19.4
7 10	16 2.82	-28 13.8	1.717	2.547	16.2	22.2	7 10	16 3.39	-32 11.5	1.301	2.152	19.1	19.6
93628	2000 UF ₇₅		5 31.7 160°89	2.3/30.7 18			100903	1998 KU ₈		5 31.7 16°81	5.9/30.3 17		
5 1	16 59.11	-15 33.8	2.382	3.259									

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
18509	Bellini		5 31.7 186°25	3°8/ 2.4	18		510770	2013 AZ ₃₇		5 31.7 33°49	8°9/29.5	18	
5 1	17 2.59	-34 35.2	2.111	2.965	12.3	18.0	5 1	16 56.94	+ 5 13.0	2.171	3.006	12.7	20.6
5 11	16 55.38	-34 26.5	2.037	2.965	9.3	17.8	5 11	16 51.12	+ 5 36.4	2.117	3.009	10.8	20.5
5 21	16 46.17	-34 4.0	1.987	2.965	6.2	17.6	5 21	16 43.82	+ 5 42.8	2.086	3.012	9.3	20.4
5 31	16 35.85	-33 26.7	1.963	2.964	3.9	17.5	5 31	16 35.74	+ 5 28.9	2.079	3.015	8.9	20.4
6 10	16 25.57	-32 36.3	1.968	2.962	4.8	17.5	6 10	16 27.69	+ 4 53.8	2.097	3.019	9.7	20.4
6 20	16 16.38	-31 36.6	2.000	2.960	7.8	17.7	6 20	16 20.40	+ 3 58.8	2.139	3.022	11.4	20.6
6 30	16 9.14	-30 32.9	2.057	2.958	10.9	17.9	6 30	16 14.55	+ 2 46.6	2.204	3.025	13.3	20.7
7 10	16 4.37	-29 30.9	2.136	2.955	13.8	18.1	7 10	16 10.56	+ 1 21.4	2.288	3.029	15.2	20.8
24147	Stefanmuller		5 31.7 325°02	3°9/ 1.3	18 R		55061	2001 QK ₇₄		5 31.7 190°41	1°5/ 1.2	18	
5 1	17 1.13	-28 32.4	1.276	2.170	16.1	18.5	5 1	17 0.92	-26 26.3	1.705	2.587	13.3	18.4
5 11	16 55.50	-29 17.3	1.206	2.159	11.9	18.2	5 11	16 54.50	-26 25.9	1.637	2.587	9.5	18.2
5 21	16 46.74	-29 53.6	1.156	2.148	7.4	17.9	5 21	16 45.83	-26 17.5	1.593	2.587	5.4	17.9
5 31	16 35.92	-30 17.3	1.129	2.137	4.0	17.7	5 31	16 35.88	-26 0.8	1.575	2.587	1.6	17.7
6 10	16 24.68	-30 26.8	1.126	2.127	6.2	17.8	6 10	16 25.88	-25 37.3	1.583	2.586	4.4	17.8
6 20	16 14.74	-30 23.8	1.147	2.118	11.0	18.0	6 20	16 16.99	-25 10.0	1.617	2.586	8.6	18.1
6 30	16 7.55	-30 13.2	1.188	2.110	15.6	18.2	6 30	16 10.20	-24 43.0	1.675	2.585	12.5	18.3
7 10	16 3.97	-30 0.6	1.247	2.102	19.6	18.5	7 10	16 6.10	-24 19.9	1.754	2.585	15.8	18.5
311359	2005 SD ₇		5 31.7 292°36	1°7/ 1.3	18		64752	2001 XN ₁₅₇		5 31.7 325°60	3°7/31.1	18	
5 1	16 58.10	-27 10.9	2.113	2.990	11.3	21.2	5 1	16 59.40	-14 34.6	1.159	2.066	16.3	18.4
5 11	16 52.35	-27 15.6	2.024	2.971	8.2	21.0	5 11	16 54.13	-14 28.2	1.094	2.055	11.8	18.1
5 21	16 44.66	-27 13.5	1.959	2.952	4.8	20.7	5 21	16 45.94	-14 27.1	1.048	2.045	6.9	17.8
5 31	16 35.78	-27 3.8	1.921	2.932	1.8	20.5	5 31	16 35.90	-14 33.6	1.025	2.035	3.7	17.5
6 10	16 26.66	-26 47.4	1.911	2.913	3.9	20.6	6 10	16 25.56	-14 49.5	1.026	2.026	6.9	17.7
6 20	16 18.30	-26 26.1	1.927	2.894	7.6	20.8	6 20	16 16.48	-15 15.5	1.048	2.017	12.1	18.0
6 30	16 11.57	-26 3.2	1.969	2.875	11.1	21.0	6 30	16 9.99	-15 51.8	1.092	2.010	17.0	18.2
7 10	16 7.08	-25 41.9	2.031	2.856	14.2	21.1	7 10	16 6.89	-16 37.7	1.151	2.003	21.1	18.4
373551	2001 UC ₁₇₁		5 31.7 219°07	2°0/ 1.3	17		179363	2001 XV ₂₀₁		5 31.7 162°18	0°4/31.5	17	
5 1	17 2.28	-27 45.8	2.212	3.079	11.3	22.4	5 1	16 57.10	-21 26.5	2.684	3.560	9.2	21.7
5 11	16 55.18	-27 57.2	2.128	3.070	8.2	22.1	5 11	16 51.10	-21 14.5	2.615	3.564	6.5	21.5
5 21	16 46.13	-28 1.5	2.070	3.060	4.8	21.9	5 21	16 43.78	-21 0.0	2.573	3.568	3.4	21.3
5 31	16 35.88	-27 57.6	2.039	3.049	2.0	21.7	5 31	16 35.74	-20 43.5	2.559	3.572	0.4	21.1
6 10	16 25.46	-27 45.7	2.036	3.037	3.9	21.8	6 10	16 27.72	-20 26.5	2.574	3.576	3.1	21.3
6 20	16 15.85	-27 28.0	2.062	3.025	7.5	22.0	6 20	16 20.37	-20 10.5	2.617	3.579	6.2	21.5
6 30	16 7.94	-27 7.4	2.113	3.012	10.8	22.2	6 30	16 14.28	-19 57.1	2.687	3.581	8.9	21.7
7 10	16 2.32	-26 47.5	2.186	2.998	13.7	22.4	7 10	16 9.88	-19 48.0	2.780	3.584	11.3	21.9
134135	Steigerwald		5 31.7 158°14	0°7/31.5	18		376222	2011 EK ₁₇		5 31.7 76°84	3°5/30.9	17	
5 1	16 58.91	-20 23.7	1.978	2.863	11.6	20.4	5 1	17 0.48	-13 7.8	1.649	2.537	13.4	20.6
5 11	16 52.75	-20 17.6	1.911	2.864	8.2	20.2	5 11	16 53.93	-13 0.7	1.600	2.552	9.6	20.4
5 21	16 44.78	-20 9.4	1.869	2.866	4.4	19.9	5 21	16 45.41	-12 58.6	1.574	2.566	5.7	20.2
5 31	16 35.79	-19 59.8	1.854	2.867	0.7	19.7	5 31	16 35.87	-13 3.1	1.575	2.581	3.5	20.1
6 10	16 26.76	-19 50.3	1.866	2.868	4.0	19.9	6 10	16 26.43	-13 15.1	1.601	2.596	5.7	20.3
6 20	16 18.64	-19 42.5	1.905	2.869	7.9	20.1	6 20	16 18.14	-13 35.1	1.654	2.611	9.4	20.5
6 30	16 12.21	-19 38.4	1.968	2.870	11.3	20.4	6 30	16 11.81	-14 3.1	1.730	2.625	13.0	20.7
7 10	16 8.01	-19 39.5	2.053	2.871	14.3	20.6	7 10	16 7.96	-14 38.2	1.825	2.640	15.9	21.0
132052	2002 CB ₁₃₉		5 31.7 190°06	2°4/30.9	17		413388	2004 RX ₄₉		5 31.7 312°40	3°9/ 1.5	17	
5 1	17 2.13	-17 32.0	1.731	2.616	13.0	20.5	5 1	17 0.46	-29 6.9	1.142	2.041	17.1	20.3
5 11	16 55.18	-16 57.8	1.663	2.616	9.2	20.3	5 11	16 55.41	-29 31.7	1.065	2.021	12.8	20.0
5 21	16 46.13	-16 22.5	1.619	2.614	5.2	20.1	5 21	16 46.89	-29 45.1	1.007	2.000	7.9	19.7
5 31	16 35.89	-15 48.5	1.602	2.612	2.4	19.9	5 31	16 35.99	-29 43.2	0.971	1.980	4.0	19.4
6 10	16 25.61	-15 18.7	1.612	2.610	5.3	20.1	6 10	16 24.49	-29 25.6	0.958	1.961	6.5	19.5
6 20	16 16.40	-14 55.9	1.649	2.606	9.4	20.3	6 20	16 14.31	-28 55.7	0.966	1.942	11.9	19.7
6 30	16 9.16	-14 42.5	1.709	2.602	13.2	20.5	6 30	16 7.12	-28 20.2	0.995	1.924	17.1	19.9
7 10	16 4.47	-14 39.6	1.789	2.598	16.4	20.7	7 10	16 3.91	-27 46.4	1.040	1.907	21.7	20.1
499545	2010 RX ₁₁₅		5 31.7 191°62	1°5/31.2	17		488929	2005 UG ₇₄		5 31.7 253°98	2°3/30.3	17	
5 1	17 1.65	-18 37.0	1.917	2.799	12.1	22.2	5 1	16 57.04	-17 36.6	2.575	3.453	9.5	21.4
5 11	16 54.73	-18 20.5	1.846	2.797	8.6	22.0	5 11	16 51.13	-16 30.7	2.488	3.437	6.8	21.2
5 21	16 45.86	-18 2.7	1.800	2.795	4.6	21.7	5 21	16 43.85	-15 22.0	2.428	3.421	3.9	21.0
5 31	16 35.87	-17 44.8	1.781	2.793	1.5	21.5	5 31	16 35.77	-14 13.3	2.398	3.405	2.3	20.8
6 10	16 25.82	-17 28.9	1.790	2.790	4.5	21.7	6 10	16 27.65	-13 8.1	2.396	3.388	4.4	20.9
6 20	16 16.71	-17 16.8	1.826	2.786	8.5	21.9	6 20	16 20.16	-12 9.6	2.424	3.371	7.4	21.1
6 30	16 9.41	-17 10.6	1.887	2.781	12.1	22.1	6 30	16 13.93	-11 20.5	2.477	3.354	10.2	21.3
7 10	16 4.47	-17 11.8	1.968	2.776	15.2	22.3	7 10	16 9.42	-10 42.5	2.553	3.336	12.7	21.4
408960	2002 GZ ₁₄₀		5 31.7 98°49	0°2/31.8	17		248615	2006 DB ₁₅₀		5 31.7 234°26	2°5/30.7	18	
5 1	17 4.12	-22 37.2	1.496	2.384	14.5	21.2	5 1	16 58.66	-16 14.7	2.133	3.015	11.0	20.9
5 11	16 56.70	-22 40.0	1.447	2.401	10.2	21.0	5 11	16 52.53	-15 40.2	2.053	3.004	7.9	20.7
5 21	16 46.93	-22 38.1	1.422	2.418	5.4	20.7	5 21	16 44.68	-15 5.5	1.999	2.992	4.6	20.5
5 31	16 35.93	-22 31.6	1.422	2.435	0.4	20.4	5 31	16 35.83	-14 32.8	1.972	2.980	2.5	20.3
6 10	16 25.11	-22 21.8	1.448	2.452	4.6	20.8	6 10	16 26.87	-14 4.6	1.973	2.968	4.8	20.4
6 20	16 15.71	-22 11.3	1.500	2.468	9.2	21.1	6 20	16 18.67	-13 43.2	2.002	2.955	8.3	20.6
6 30	16 8.71	-22 3.3	1.576	2.484	13.2	21.3	6 30	16 12.00	-13 30.5	2.055	2.942	11.6	20.8
7 10	16 4.61	-22 0.3	1.671	2.499	16.6	21.6	7 10	16 7.38	-13 27.3	2.129	2.929	14.4	21.0
476023	2007 RN ₁₉₂		5 31.7 299°33	6°8/ 1.9	18		357751	2005 SW ₇₃		5 31.7 241°28	5°0/ 2.9	18	
5 1	17 2.90	-37 13.6	1.783										

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
410391	2007 <i>WV</i>		5 31.7 230°40	0°3/31.9	18		333477	2004 <i>SJ</i> ₁₆		5 31.7 289°50	2°3/31.2	18	
5 1	16 53.73	-23 26.9	3.734	4.604	7.0	21.7	5 1	16 59.84	-16 13.3	1.695	2.585	13.0	21.2
5 11	16 48.56	-23 28.4	3.648	4.593	5.0	21.5	5 11	16 53.92	-16 9.3	1.607	2.561	9.4	20.9
5 21	16 42.41	-23 27.5	3.589	4.583	2.7	21.4	5 21	16 45.69	-16 7.3	1.542	2.537	5.3	20.6
5 31	16 35.69	-23 24.2	3.559	4.573	0.4	21.1	5 31	16 35.95	-16 8.6	1.502	2.513	2.3	20.3
6 10	16 28.90	-23 19.0	3.559	4.562	2.3	21.3	6 10	16 25.81	-16 14.4	1.489	2.489	5.3	20.5
6 20	16 22.51	-23 12.9	3.588	4.551	4.6	21.5	6 20	16 16.45	-16 26.0	1.502	2.465	9.7	20.7
6 30	16 16.99	-23 7.0	3.645	4.539	6.8	21.6	6 30	16 8.95	-16 44.6	1.538	2.441	13.9	20.9
7 10	16 12.68	-23 2.5	3.726	4.528	8.7	21.7	7 10	16 4.07	-17 10.9	1.594	2.416	17.5	21.0
176616	2002 <i>GS</i> ₆₅		5 31.7 310°24	2°8/1.0	18		115152	2003 <i>SA</i> ₆₈		5 31.7 235°68	0°7/31.4	18	
5 1	17 1.44	-25 42.3	1.236	2.134	16.2	18.7	5 1	16 59.05	-20 51.0	2.230	3.110	10.7	20.4
5 11	16 56.20	-26 23.7	1.140	2.098	12.0	18.3	5 11	16 52.81	-20 33.2	2.147	3.098	7.6	20.2
5 21	16 47.47	-27 1.6	1.066	2.061	7.0	17.9	5 21	16 44.86	-20 12.4	2.089	3.086	4.1	19.9
5 31	16 36.06	-27 32.0	1.014	2.025	2.8	17.6	5 31	16 35.89	-19 49.5	2.059	3.073	0.7	19.6
6 10	16 23.55	-27 52.5	0.986	1.989	6.2	17.6	6 10	16 26.79	-19 26.3	2.058	3.060	3.8	19.8
6 20	16 11.84	-28 3.0	0.980	1.954	12.0	17.8	6 20	16 18.42	-19 4.8	2.084	3.046	7.5	20.1
6 30	16 2.78	-28 7.3	0.995	1.919	17.6	18.0	6 30	16 11.57	-18 47.5	2.136	3.032	10.8	20.2
7 10	15 57.65	-28 10.6	1.026	1.885	22.6	18.2	7 10	16 6.77	-18 36.3	2.209	3.018	13.7	20.4
279275	2009 <i>WC</i> ₉		5 31.7 136°56	1°7/31.0	17		401895	2001 <i>SA</i> ₁₅₄		5 31.7 262°99	5°2/1.8	17	
5 1	16 59.81	-18 45.2	2.051	2.933	11.4	21.0	5 1	17 5.57	-32 41.2	1.476	2.349	15.5	21.6
5 11	16 53.21	-18 11.0	1.992	2.943	8.0	20.8	5 11	16 58.61	-33 21.5	1.394	2.333	11.9	21.3
5 21	16 44.96	-17 35.2	1.958	2.953	4.4	20.6	5 21	16 48.45	-33 49.4	1.334	2.316	8.0	21.0
5 31	16 35.86	-16 59.8	1.951	2.963	1.7	20.4	5 31	16 36.15	-33 59.8	1.298	2.299	5.3	20.8
6 10	16 26.84	-16 27.3	1.973	2.972	4.3	20.6	6 10	16 23.33	-33 51.1	1.287	2.282	6.8	20.8
6 20	16 18.77	-16 0.2	2.022	2.980	7.9	20.9	6 20	16 11.70	-33 25.8	1.300	2.264	10.8	21.0
6 30	16 12.38	-15 40.6	2.096	2.988	11.2	21.1	6 30	16 2.76	-32 49.9	1.336	2.246	15.1	21.2
7 10	16 8.12	-15 29.8	2.191	2.996	13.9	21.3	7 10	15 57.41	-32 11.2	1.391	2.227	18.9	21.4
129654	1998 <i>QA</i> ₁₂		5 31.7 276°05	2°2/30.8	18		439773	2015 <i>GM</i> ₂₃		5 31.7 352°26	7°8/30.4	17	
5 1	16 58.39	-17 25.6	1.987	2.872	11.5	20.4	5 1	16 55.04	-4 55.1	1.332	2.226	15.5	19.6
5 11	16 52.55	-16 53.5	1.897	2.850	8.3	20.1	5 11	16 50.63	-4 37.3	1.271	2.217	12.1	19.4
5 21	16 44.80	-16 20.1	1.832	2.827	4.7	19.9	5 21	16 43.92	-4 35.2	1.231	2.209	9.1	19.2
5 31	16 35.86	-15 47.4	1.794	2.805	2.2	19.7	5 31	16 35.83	-4 52.6	1.214	2.203	7.8	19.1
6 10	16 26.68	-15 18.0	1.784	2.781	4.9	19.8	6 10	16 27.60	-5 31.3	1.219	2.198	9.4	19.2
6 20	16 18.23	-14 54.6	1.800	2.758	8.7	20.0	6 20	16 20.42	-6 30.1	1.247	2.195	12.7	19.3
6 30	16 11.38	-14 39.6	1.841	2.734	12.4	20.1	6 30	16 15.34	-7 45.6	1.295	2.193	16.3	19.5
7 10	16 6.75	-14 34.3	1.901	2.710	15.6	20.3	7 10	16 12.99	-9 13.4	1.362	2.192	19.5	19.8
211570	2003 <i>SP</i> ₁₅₀		5 31.7 220°83	0°5/31.6	17		44852	1999 <i>UG</i> ₂		5 31.7 300°06	2°4/31.1	18	
5 1	17 3.03	-20 12.2	1.672	2.558	13.4	20.5	5 1	16 59.45	-18 8.0	1.369	2.269	14.8	18.4
5 11	16 56.08	-20 24.5	1.599	2.552	9.5	20.3	5 11	16 54.08	-17 42.8	1.284	2.243	10.6	18.1
5 21	16 46.76	-20 35.8	1.549	2.546	5.1	20.0	5 21	16 45.95	-17 15.8	1.220	2.217	6.0	17.7
5 31	16 36.00	-20 45.4	1.525	2.539	0.6	19.6	5 31	16 35.98	-16 49.3	1.180	2.192	2.4	17.4
6 10	16 25.01	-20 53.9	1.529	2.532	4.6	19.9	6 10	16 25.53	-16 26.4	1.165	2.166	6.1	17.6
6 20	16 15.05	-21 2.3	1.558	2.524	9.1	20.2	6 20	16 16.03	-16 10.7	1.174	2.141	11.3	17.8
6 30	16 7.16	-21 12.8	1.612	2.516	13.2	20.4	6 30	16 8.81	-16 5.1	1.204	2.116	16.2	18.0
7 10	16 2.03	-21 27.1	1.685	2.508	16.7	20.6	7 10	16 4.71	-16 11.5	1.251	2.091	20.4	18.2
294303	2007 <i>VM</i> ₁₁		5 31.7 238°55	3°7/30.8	17		207011	2004 <i>TY</i> ₃₂₀		5 31.7 136°69	1°8/31.2	17	
5 1	17 1.55	-13 27.9	1.610	2.498	13.7	21.0	5 1	17 2.05	-18 56.7	1.448	2.341	14.5	20.9
5 11	16 55.02	-13 10.4	1.537	2.489	9.9	20.8	5 11	16 55.42	-18 33.5	1.389	2.346	10.3	20.6
5 21	16 46.19	-12 56.9	1.487	2.479	6.0	20.5	5 21	16 46.38	-18 8.7	1.352	2.350	5.6	20.4
5 31	16 35.97	-12 49.8	1.463	2.469	3.7	20.3	5 31	16 36.00	-17 44.0	1.341	2.354	1.8	20.1
6 10	16 25.55	-12 50.9	1.465	2.459	6.2	20.5	6 10	16 25.64	-17 22.3	1.356	2.357	5.4	20.4
6 20	16 16.11	-13 1.7	1.492	2.448	10.3	20.7	6 20	16 16.56	-17 6.4	1.396	2.361	10.0	20.6
6 30	16 8.70	-13 22.7	1.543	2.437	14.3	20.9	6 30	16 9.79	-16 58.8	1.458	2.364	14.3	20.9
7 10	16 3.96	-13 53.7	1.612	2.426	17.7	21.1	7 10	16 5.92	-17 1.0	1.539	2.367	17.8	21.1
216718	2005 <i>EV</i> ₁₂₅		5 31.7 38°04	5°0/30.1	17		382264	2012 <i>TO</i> ₁₂₄		5 31.7 254°35	0°4/1.0	18	
5 1	16 59.16	-12 52.3	1.370	2.268	14.9	20.3	5 1	16 50.48	-24 49.9	4.434	5.303	6.0	21.7
5 11	16 53.36	-11 59.2	1.316	2.272	10.9	20.1	5 11	16 46.19	-24 43.5	4.354	5.299	4.3	21.6
5 21	16 45.26	-11 10.5	1.284	2.275	6.9	19.8	5 21	16 41.13	-24 34.3	4.301	5.294	2.3	21.4
5 31	16 35.90	-10 30.7	1.276	2.279	5.1	19.7	5 31	16 35.65	-24 22.8	4.277	5.290	0.5	21.3
6 10	16 26.58	-10 3.9	1.293	2.283	7.5	19.9	6 10	16 30.15	-24 9.5	4.283	5.286	1.9	21.4
6 20	16 18.52	-9 52.7	1.333	2.287	11.5	20.1	6 20	16 25.00	-23 55.3	4.318	5.282	3.9	21.5
6 30	16 12.68	-9 57.8	1.395	2.291	15.4	20.4	6 30	16 20.56	-23 41.3	4.381	5.277	5.7	21.7
7 10	16 9.63	-10 18.0	1.474	2.296	18.7	20.6	7 10	16 17.10	-23 28.6	4.468	5.273	7.3	21.8
107649	2001 <i>ET</i> ₂₀		5 31.7 141°37	0°0/31.6	18		307010	2001 <i>XC</i> ₄₇		5 31.7 243°64	0°2/31.7	18	
5 1	17 2.88	-23 3.0	1.809	2.690	12.7	20.5	5 1	17 2.30	-20 24.4	2.040	2.918	11.6	19.9
5 11	16 55.61	-22 46.7	1.750	2.701	9.0	20.3	5 11	16 55.36	-20 45.5	1.954	2.903	8.3	19.6
5 21	16 46.32	-22 25.3	1.715	2.711	4.8	20.0	5 21	16 46.35	-21 6.0	1.892	2.888	4.4	19.4
5 31	16 35.97	-21 59.3	1.707	2.721	0.3	19.7	5 31	16 36.01	-21 25.1	1.858	2.872	0.3	19.0
6 10	16 25.71	-21 31.1	1.726	2.730	4.1	20.0	6 10	16 25.38	-21 42.6	1.853	2.856	4.0	19.3
6 20	16 16.60	-21 3.6	1.773	2.738	8.3	20.3	6 20	16 15.47	-21 59.1	1.875	2.839	8.0	19.5
6 30	16 9.50	-20 40.1	1.844	2.746	12.0	20.5	6 30	16 7.25	-22 15.9	1.923	2.822	11.7	19.7
7 10	16 4.92	-20 23.1	1.936	2.753	15.1	20.8	7 10	16 1.38	-22 34.7	1.993	2.804	14.9	19.9
37121	2000 <i>VU</i> ₇		5 31.7 154°85	2°3/30.8	18		199434	2006 <i>DJ</i> ₂₃		5			

EPHEMERIDES

5 31.7

5 31.7

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
405478	2004 <i>WN</i>		5 31.7 219°95	0°9/31.4	16		177161	2003 <i>SG</i> ₈₄		5 31.7 260°25	2°7/	1.5	17
5 1	17 3.44	-20 8.1	1.890	2.770	12.3	22.8	5 1	17 4.34	-28 51.3	1.762	2.634	13.4	21.5
5 11	16 56.18	-19 57.5	1.809	2.759	8.8	22.6	5 11	16 57.29	-29 3.2	1.668	2.611	9.9	21.2
5 21	16 46.77	-19 44.4	1.752	2.748	4.7	22.3	5 21	16 47.60	-29 5.7	1.598	2.587	6.0	21.0
5 31	16 36.05	-19 29.4	1.722	2.735	1.0	22.0	5 31	16 36.17	-28 56.6	1.554	2.563	2.8	20.7
6 10	16 25.11	-19 14.0	1.721	2.722	4.4	22.2	6 10	16 24.28	-28 36.0	1.536	2.537	4.9	20.8
6 20	16 15.08	-19 0.4	1.746	2.708	8.7	22.5	6 20	16 13.30	-28 6.5	1.546	2.511	9.2	21.0
6 30	16 6.91	-18 51.2	1.797	2.693	12.5	22.7	6 30	16 4.44	-27 32.7	1.579	2.485	13.4	21.1
7 10	16 1.25	-18 48.5	1.868	2.677	15.8	22.9	7 10	15 58.53	-27 0.1	1.633	2.457	17.1	21.3
399210	2014 <i>GE</i> ₂₉		5 31.7 299°74	2°5/	1.4	18	361171	2006 <i>KH</i> ₁₀₇		5 31.7 330°20	4°0/	1.2	17
5 1	16 59.16	-28 6.4	2.169	3.042	11.3	20.6	5 1	17 2.29	-27 55.1	1.204	2.100	16.7	20.3
5 11	16 53.09	-28 37.7	2.090	3.033	8.2	20.4	5 11	16 56.52	-28 51.1	1.137	2.091	12.3	20.0
5 21	16 45.10	-29 3.0	2.036	3.025	5.0	20.2	5 21	16 47.43	-29 39.7	1.091	2.083	7.6	19.7
5 31	16 35.94	-29 20.3	2.008	3.016	2.5	20.0	5 31	16 36.16	-30 15.9	1.067	2.075	4.1	19.5
6 10	16 26.57	-29 29.5	2.008	3.008	4.1	20.1	6 10	16 24.45	-30 37.4	1.067	2.068	6.5	19.6
6 20	16 17.96	-29 31.4	2.036	3.000	7.5	20.3	6 20	16 14.12	-30 45.2	1.090	2.062	11.4	19.9
6 30	16 11.00	-29 28.6	2.088	2.992	10.7	20.5	6 30	16 6.70	-30 43.9	1.133	2.056	16.1	20.1
7 10	16 6.28	-29 24.0	2.162	2.984	13.5	20.6	7 10	16 3.08	-30 39.4	1.194	2.050	20.2	20.3
315422	2007 <i>VY</i> ₂₅₁		5 31.7 145°78	1°8/31.3	17		339493	2005 <i>GE</i> ₂₅		5 31.7 203°45	0°8/	1.1	17
5 1	17 2.65	-17 42.7	1.638	2.525	13.5	21.1	5 1	16 59.57	-25 13.2	2.426	3.298	10.2	22.3
5 11	16 55.64	-17 38.0	1.578	2.531	9.6	20.8	5 11	16 53.10	-25 9.7	2.348	3.293	7.3	22.1
5 21	16 46.45	-17 33.6	1.541	2.537	5.2	20.6	5 21	16 45.01	-25 0.9	2.295	3.289	4.0	21.9
5 31	16 36.03	-17 30.6	1.531	2.543	1.8	20.4	5 31	16 35.99	-24 46.8	2.270	3.283	0.9	21.6
6 10	16 25.61	-17 30.1	1.548	2.548	4.9	20.6	6 10	16 26.90	-24 28.5	2.275	3.278	3.3	21.8
6 20	16 16.34	-17 33.7	1.590	2.553	9.2	20.9	6 20	16 18.55	-24 7.8	2.307	3.271	6.7	22.0
6 30	16 9.16	-17 43.0	1.657	2.558	13.1	21.1	6 30	16 11.67	-23 47.3	2.366	3.265	9.8	22.2
7 10	16 4.64	-17 58.8	1.743	2.562	16.4	21.3	7 10	16 6.75	-23 29.6	2.447	3.257	12.5	22.3
471332	2011 <i>LD</i> ₁₀		5 31.7	8°66	9°9/28.7	17	236584	2006 <i>HB</i> ₁₀₆		5 31.7 284°05	3°1/30.7	18	
5 1	16 56.60	+ 1 1.5	1.613	2.479	14.8	20.2	5 1	16 57.99	-14 40.5	1.863	2.751	12.1	20.5
5 11	16 51.30	+ 1 59.4	1.562	2.480	12.3	20.1	5 11	16 52.34	-14 17.5	1.784	2.736	8.7	20.2
5 21	16 44.11	+ 2 40.1	1.532	2.481	10.4	20.0	5 21	16 44.75	-13 56.6	1.729	2.722	5.2	20.0
5 31	16 35.87	+ 2 58.0	1.526	2.483	9.9	19.9	5 31	16 35.98	-13 39.9	1.700	2.708	3.1	19.8
6 10	16 27.65	+ 2 50.5	1.543	2.485	11.1	20.0	6 10	16 27.03	-13 29.7	1.699	2.693	5.4	19.9
6 20	16 20.42	+ 2 18.0	1.582	2.487	13.4	20.2	6 20	16 18.88	-13 27.6	1.723	2.679	9.2	20.1
6 30	16 15.00	+ 1 23.1	1.642	2.490	15.9	20.3	6 30	16 12.40	-13 35.0	1.770	2.665	12.8	20.3
7 10	16 11.91	+ 0 10.7	1.719	2.493	18.3	20.5	7 10	16 8.21	-13 51.9	1.838	2.650	15.9	20.5
367128	2006 <i>SO</i> ₂₄₆		5 31.7 258°37	0°3/31.9	18		101049	1998 <i>QD</i> ₁₀₅		5 31.7 318°60	9°1/29.5	18	
5 1	16 53.85	-23 46.7	3.536	4.407	7.4	21.7	5 1	16 57.61	- 3 49.9	1.300	2.189	16.2	19.3
5 11	16 48.74	-23 42.0	3.444	4.390	5.2	21.5	5 11	16 52.64	- 3 4.4	1.231	2.172	12.9	19.1
5 21	16 42.56	-23 34.3	3.379	4.373	2.8	21.3	5 21	16 45.13	- 2 33.7	1.182	2.155	10.1	18.9
5 31	16 35.78	-23 23.9	3.342	4.356	0.4	21.1	5 31	16 36.02	- 2 24.2	1.155	2.138	9.1	18.8
6 10	16 28.90	-23 11.5	3.335	4.338	2.4	21.3	6 10	16 26.60	- 2 39.8	1.151	2.122	10.9	18.8
6 20	16 22.44	-22 58.2	3.358	4.321	4.9	21.4	6 20	16 18.19	- 3 21.1	1.169	2.107	14.3	19.0
6 30	16 16.88	-22 45.3	3.407	4.303	7.2	21.6	6 30	16 11.98	- 4 25.5	1.206	2.092	18.0	19.1
7 10	16 12.60	-22 34.4	3.481	4.284	9.2	21.7	7 10	16 8.72	- 5 48.3	1.259	2.078	21.5	19.3
320465	2007 <i>VF</i> ₂₇₆		5 31.7 32°71	0°1/31.8	16		474811	2005 <i>SY</i> ₁₆		5 31.7 278°38	4°4/	2.2	17
5 1	17 0.83	-20 58.1	1.132	2.038	16.7	19.9	5 1	17 0.05	-34 56.9	2.240	3.094	11.7	21.2
5 11	16 54.98	-21 25.5	1.089	2.051	11.8	19.7	5 11	16 53.77	-35 24.0	2.161	3.086	9.0	21.0
5 21	16 46.28	-21 51.0	1.066	2.065	6.2	19.4	5 21	16 45.50	-35 39.9	2.106	3.079	6.3	20.8
5 31	16 36.03	-22 13.4	1.066	2.080	0.4	19.0	5 31	16 36.03	-35 42.3	2.077	3.071	4.5	20.7
6 10	16 25.90	-22 32.6	1.090	2.095	5.3	19.4	6 10	16 26.40	-35 31.0	2.076	3.064	5.3	20.8
6 20	16 17.38	-22 49.8	1.137	2.112	10.6	19.8	6 20	16 17.63	-35 7.9	2.101	3.057	7.8	20.9
6 30	16 11.64	-23 7.2	1.204	2.129	15.2	20.1	6 30	16 10.61	-34 36.8	2.151	3.049	10.7	21.1
7 10	16 9.25	-23 27.0	1.290	2.147	18.9	20.4	7 10	16 5.93	-34 2.3	2.222	3.042	13.3	21.2
93924	2000 <i>WO</i> ₁₆₁		5 31.7 204°05	3°1/30.9	18		176458	2001 <i>XE</i> ₇₄		5 31.7 121°21	1°0/31.5	18	
5 1	17 0.50	-12 23.3	2.213	3.087	11.0	20.1	5 1	16 58.49	-18 24.0	2.273	3.153	10.5	20.1
5 11	16 53.78	-12 23.7	2.138	3.083	8.0	19.9	5 11	16 52.32	-18 32.2	2.208	3.159	7.4	20.0
5 21	16 45.38	-12 28.6	2.089	3.078	4.9	19.7	5 21	16 44.58	-18 40.5	2.169	3.164	4.0	19.7
5 31	16 35.99	-12 39.0	2.068	3.073	3.1	19.5	5 31	16 35.97	-18 49.2	2.157	3.170	1.0	19.5
6 10	16 26.48	-12 55.6	2.075	3.067	4.9	19.6	6 10	16 27.32	-18 58.8	2.174	3.175	3.7	19.7
6 20	16 17.70	-13 18.7	2.110	3.060	8.1	19.8	6 20	16 19.45	-19 10.0	2.218	3.180	7.1	20.0
6 30	16 10.42	-13 48.4	2.170	3.054	11.2	20.0	6 30	16 13.04	-19 23.8	2.288	3.185	10.2	20.2
7 10	16 5.15	-14 24.3	2.253	3.046	13.9	20.2	7 10	16 8.58	-19 41.0	2.380	3.190	12.8	20.4
86244	1999 <i>TA</i> ₁₃₂		5 31.7 312°50	0°4/31.6	18	R	55966	1998 <i>KV</i> ₁₄		5 31.7 39°22	2°1/	1.5	17
5 1	16 56.57	-21 51.7	2.079	2.965	11.1	19.9	5 1	16 58.50	-28 16.1	1.753	2.636	13.0	18.9
5 11	16 51.17	-21 36.5	2.003	2.956	7.8	19.7	5 11	16 52.65	-28 11.7	1.702	2.651	9.3	18.7
5 21	16 44.04	-21 17.7	1.951	2.948	4.2	19.5	5 21	16 44.82	-27 58.2	1.675	2.667	5.4	18.5
5 31	16 35.90	-20 56.4	1.926	2.940	0.4	19.2	5 31	16 35.98	-27 35.6	1.673	2.684	2.2	18.3
6 10	16 27.67	-20 34.2	1.928	2.931	3.8	19.4	6 10	16 27.29	-27 5.8	1.698	2.701	4.2	18.5
6 20	16 20.23	-20 13.3	1.957	2.924	7.5	19.6	6 20	16 19.77	-26 32.2	1.748	2.718	8.0	18.7
6 30	16 14.34	-19 56.3	2.011	2.916	11.0	19.8	6 30	16 14.24	-25 58.8	1.823	2.736	11.5	19.0
7 10	16 10.56	-19 45.0	2.086	2.908	13.9	20.0	7 10	16 11.17	-25 29.3	1.918	2.754	14.5	19.2
47241	1999 <i>VS</i> ₅₀		5 31.7 139°73	1°4/	1.2	18	120581	1995					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
234127	1999 YQ ₂₃		5 31.7 267°51	1.4/31.3	17		61065	2000 LE ₅		5 31.7	4°23	7°0/30.2	18
5 1	16 58.67	-19 7.3	1.893	2.780	12.0	21.3	5 1	16 57.54	-9 57.6	1.042	1.953	17.4	18.5
5 11	16 52.79	-18 50.2	1.817	2.771	8.5	21.1	5 11	16 52.80	-9 11.3	0.992	1.951	13.1	18.2
5 21	16 44.97	-18 31.6	1.765	2.761	4.6	20.8	5 21	16 45.24	-8 35.3	0.962	1.951	8.9	18.0
5 31	16 36.01	-18 12.6	1.740	2.752	1.4	20.6	5 31	16 36.06	-8 15.4	0.952	1.952	7.1	17.9
6 10	16 26.92	-17 55.4	1.741	2.742	4.4	20.8	6 10	16 26.85	-8 15.7	0.965	1.954	9.5	18.0
6 20	16 18.67	-17 41.9	1.769	2.733	8.4	21.0	6 20	16 19.09	-8 37.0	0.998	1.957	13.8	18.2
6 30	16 12.16	-17 34.4	1.822	2.723	12.1	21.2	6 30	16 13.98	-9 17.8	1.050	1.961	18.1	18.5
7 10	16 7.94	-17 34.3	1.895	2.713	15.3	21.4	7 10	16 12.15	-10 14.2	1.118	1.966	21.8	18.8
41064	1999 VK ₂₉		5 31.7 264°18	0°4/31.9	18		162693	2000 UN ₁₀		5 31.7 249°00	1°5/	1.1	17
5 1	16 57.36	-23 35.0	2.515	3.391	9.8	19.5	5 1	17 4.00	-24 56.9	1.657	2.539	13.7	20.2
5 11	16 51.58	-23 33.3	2.427	3.375	7.0	19.3	5 11	16 57.04	-25 16.9	1.574	2.524	9.9	19.9
5 21	16 44.24	-23 27.7	2.364	3.359	3.8	19.1	5 21	16 47.48	-25 31.6	1.515	2.509	5.6	19.6
5 31	16 35.96	-23 18.4	2.329	3.343	0.5	18.8	5 31	16 36.23	-25 39.3	1.481	2.493	1.6	19.3
6 10	16 27.52	-23 6.2	2.323	3.326	3.2	19.0	6 10	16 24.59	-25 39.8	1.474	2.477	4.7	19.5
6 20	16 19.69	-22 52.8	2.344	3.309	6.6	19.1	6 20	16 13.93	-25 34.7	1.493	2.460	9.3	19.7
6 30	16 13.19	-22 40.2	2.392	3.292	9.7	19.3	6 30	16 5.44	-25 27.6	1.536	2.443	13.6	20.0
7 10	16 8.52	-22 30.5	2.462	3.274	12.4	19.5	7 10	15 59.91	-25 22.2	1.599	2.426	17.3	20.2
146915	2002 CN ₂₀₄		5 31.7 358°36	0°8/	1.0	18	87218	2000 OS ₃₈		5 31.7 201°25	1°8/30.9	18	
5 1	16 56.42	-24 18.2	1.736	2.627	12.6	19.2	5 1	16 59.88	-19 40.8	2.019	2.902	11.5	19.2
5 11	16 51.35	-24 20.6	1.669	2.624	9.0	19.0	5 11	16 53.43	-18 46.8	1.947	2.899	8.2	19.0
5 21	16 44.24	-24 17.7	1.626	2.623	4.9	18.8	5 21	16 45.23	-17 49.0	1.900	2.896	4.5	18.8
5 31	16 35.96	-24 9.7	1.608	2.621	0.9	18.5	5 31	16 36.06	-16 50.1	1.881	2.892	1.8	18.6
6 10	16 27.61	-23 57.6	1.616	2.621	4.1	18.7	6 10	16 26.89	-15 53.9	1.890	2.888	4.6	18.8
6 20	16 20.23	-23 43.9	1.650	2.622	8.2	19.0	6 20	16 18.63	-15 3.9	1.926	2.883	8.3	19.0
6 30	16 14.73	-23 31.3	1.708	2.623	12.0	19.2	6 30	16 12.06	-14 23.4	1.987	2.878	11.7	19.2
7 10	16 11.67	-23 22.4	1.785	2.625	15.2	19.4	7 10	16 7.67	-13 54.2	2.070	2.873	14.7	19.4
342524	2008 UQ ₂₀₄		5 31.7 240°01	1°7/30.9	18		271712	2004 RR ₁₉₃		5 31.7 293°46	7°8/	2.7	18
5 1	16 59.25	-19 46.1	2.120	3.002	11.1	20.5	5 1	17 3.87	-40 20.2	1.705	2.550	15.1	20.1
5 11	16 53.01	-18 55.9	2.038	2.989	7.9	20.3	5 11	16 57.37	-41 6.5	1.618	2.529	12.3	19.9
5 21	16 45.02	-18 1.5	1.981	2.976	4.3	20.0	5 21	16 47.83	-41 35.3	1.551	2.508	9.6	19.7
5 31	16 36.02	-17 5.6	1.952	2.963	1.7	19.8	5 31	16 36.26	-41 41.1	1.509	2.487	7.9	19.5
6 10	16 26.93	-16 11.3	1.951	2.949	4.4	20.0	6 10	16 24.19	-41 21.6	1.491	2.466	8.5	19.5
6 20	16 18.65	-15 22.4	1.978	2.935	8.1	20.2	6 20	16 13.25	-40 39.3	1.497	2.445	11.0	19.6
6 30	16 11.95	-14 41.9	2.030	2.921	11.6	20.4	6 30	16 4.88	-39 40.6	1.526	2.424	14.3	19.7
7 10	16 7.36	-14 12.0	2.103	2.906	14.5	20.5	7 10	15 59.94	-38 34.1	1.574	2.403	17.4	19.9
474369	2002 RJ ₁₄₂		5 31.7 268°74	3°3/	1.9	18	245555	2005 UU ₅₄		5 31.7 256°10	3°1/	1.6	16
5 1	17 1.01	-32 10.4	2.178	3.039	11.7	21.8	5 1	17 4.22	-29 13.3	1.378	2.263	15.7	20.5
5 11	16 54.53	-32 17.9	2.084	3.018	8.8	21.6	5 11	16 57.56	-29 20.5	1.303	2.252	11.6	20.2
5 21	16 45.97	-32 14.9	2.013	2.996	5.7	21.4	5 21	16 47.86	-29 15.6	1.250	2.241	7.0	20.0
5 31	16 36.10	-31 59.6	1.970	2.973	3.4	21.2	5 31	16 36.26	-28 56.3	1.220	2.230	3.2	19.7
6 10	16 25.96	-31 32.4	1.954	2.950	4.6	21.2	6 10	16 24.36	-28 23.8	1.216	2.218	5.6	19.8
6 20	16 16.62	-30 55.7	1.965	2.927	7.8	21.4	6 20	16 13.80	-27 42.1	1.236	2.206	10.4	20.0
6 30	16 9.00	-30 13.7	2.002	2.904	11.2	21.5	6 30	16 5.91	-26 57.8	1.278	2.194	15.1	20.3
7 10	16 3.78	-29 31.1	2.060	2.880	14.2	21.7	7 10	16 1.50	-26 17.3	1.339	2.182	19.1	20.5
417501	2006 SN ₁₁₇		5 31.7 204°57	0°6/31.5	17		16401	1984 SV ₅		5 31.7 278°69	4°3/	2.2	18
5 1	17 1.71	-21 7.1	1.930	2.811	12.1	22.2	5 1	17 0.16	-34 11.7	2.190	3.047	11.8	18.0
5 11	16 54.89	-20 52.8	1.856	2.807	8.5	22.0	5 11	16 53.90	-34 37.9	2.110	3.038	9.0	17.8
5 21	16 46.08	-20 35.1	1.806	2.802	4.6	21.7	5 21	16 45.61	-34 53.1	2.053	3.029	6.2	17.7
5 31	16 36.11	-20 14.9	1.783	2.797	0.7	21.4	5 31	16 36.10	-34 55.2	2.023	3.020	4.3	17.5
6 10	16 26.04	-19 53.8	1.788	2.790	4.1	21.7	6 10	16 26.40	-34 44.0	2.020	3.011	5.2	17.6
6 20	16 16.90	-19 34.4	1.820	2.784	8.2	21.9	6 20	16 17.55	-34 21.2	2.044	3.002	7.9	17.7
6 30	16 9.57	-19 19.3	1.878	2.777	11.9	22.1	6 30	16 10.48	-33 50.9	2.092	2.993	10.8	17.9
7 10	16 4.62	-19 10.5	1.956	2.769	15.1	22.3	7 10	16 5.79	-33 17.5	2.163	2.983	13.6	18.0
170801	2004 DF ₂₉		5 31.7 198°55	0°9/	1.1	18	213171	2000 SE ₆₃		5 31.7 226°53	0°9/	1.0	17
5 1	16 58.88	-25 3.2	2.123	3.002	11.2	20.2	5 1	17 4.04	-24 36.3	1.887	2.763	12.5	21.0
5 11	16 52.78	-25 2.9	2.052	3.001	8.0	20.0	5 11	16 56.75	-24 40.0	1.803	2.751	9.0	20.8
5 21	16 44.91	-24 57.3	2.006	3.000	4.4	19.8	5 21	16 47.19	-24 37.9	1.743	2.738	5.0	20.5
5 31	16 36.03	-24 46.1	1.986	2.999	1.0	19.5	5 31	16 36.21	-24 29.4	1.711	2.724	1.0	20.2
6 10	16 27.09	-24 30.5	1.995	2.998	3.6	19.7	6 10	16 24.98	-24 15.1	1.706	2.709	4.2	20.4
6 20	16 19.01	-24 12.6	2.030	2.997	7.3	20.0	6 20	16 14.66	-23 57.4	1.729	2.694	8.5	20.6
6 30	16 12.56	-23 55.2	2.091	2.996	10.6	20.2	6 30	16 6.28	-23 39.7	1.776	2.678	12.4	20.8
7 10	16 8.28	-23 40.7	2.174	2.995	13.5	20.3	7 10	16 0.51	-23 25.4	1.845	2.661	15.7	21.0
41023	1999 UT ₃₈		5 31.7 182°53	1°7/	1.5	18	134567	1999 RZ ₂₁₂		5 31.7 233°78	2°6/30.8	17	
5 1	16 57.75	-28 20.3	2.757	3.622	9.4	19.7	5 1	17 1.01	-17 18.1	1.745	2.631	12.8	20.3
5 11	16 51.69	-28 21.0	2.682	3.622	6.8	19.5	5 11	16 54.55	-16 36.2	1.668	2.621	9.2	20.0
5 21	16 44.22	-28 15.4	2.633	3.622	4.0	19.4	5 21	16 45.97	-15 52.7	1.616	2.611	5.2	19.8
5 31	16 35.98	-28 3.1	2.612	3.622	1.7	19.2	5 31	16 36.14	-15 10.3	1.590	2.599	2.6	19.6
6 10	16 27.71	-27 44.9	2.621	3.621	3.2	19.3	6 10	16 26.16	-14 32.5	1.591	2.588	5.5	19.7
6 20	16 20.11	-27 22.7	2.657	3.621	6.0	19.5	6 20	16 17.14	-14 2.7	1.618	2.576	9.6	19.9
6 30	16 13.82	-26 58.8	2.720	3.619	8.7	19.7	6 30	16 10.02	-13 43.4	1.669	2.563	13.5	20.1
7 10	16 9.28	-26 35.8	2.806	3.618	11.0	19.8	7 10	16 5.41	-13 35.9	1.740	2.550	16.8	20.3
33546	1999 JM ₁₀		5 31.7 267°49	3°8/30.6	18		196720	2003 SB ₁₀₈		5 31.7 248°95	0°5/31.6	17	
5 1	16 58.24												

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
90690	1981 <i>EK</i> ₃₁		5 31.7 250°21	5°9/ 2.5 18			313663	2003 <i>SQ</i> ₁₉₀		5 31.8 316°91	6°5/ 2.1 18		
5 1	17 3.54	-37 14.9	1.895	2.745	13.6	19.7	5 1	17 2.03	-34 11.9	1.253	2.136	17.1	19.7
5 11	16 56.64	-37 49.8	1.818	2.737	10.7	19.5	5 11	16 56.51	-34 57.0	1.179	2.121	13.3	19.5
5 21	16 47.21	-38 9.9	1.763	2.729	7.9	19.3	5 21	16 47.56	-35 26.6	1.125	2.107	9.3	19.2
5 31	16 36.23	-38 11.8	1.733	2.721	6.0	19.1	5 31	16 36.33	-35 35.3	1.094	2.093	6.6	19.0
6 10	16 25.02	-37 54.6	1.729	2.712	6.7	19.2	6 10	16 24.61	-35 21.2	1.085	2.079	7.9	19.0
6 20	16 14.90	-37 20.9	1.751	2.704	9.3	19.3	6 20	16 14.29	-34 47.4	1.099	2.067	11.8	19.2
6 30	16 7.01	-36 36.2	1.797	2.695	12.4	19.5	6 30	16 6.98	-34 1.3	1.133	2.054	16.2	19.4
7 10	16 2.04	-35 47.0	1.864	2.686	15.3	19.6	7 10	16 3.57	-33 11.8	1.185	2.043	20.2	19.6
380832	2006 <i>AC</i>		5 31.8 242°23	2°6/30.7 18			438809	2008 <i>YG</i> ₁₀₈		5 31.8 191°86	2°2/31.1 17		
5 1	17 0.07	-15 28.1	2.194	3.072	10.9	21.3	5 1	16 58.30	-16 5.9	2.070	2.954	11.2	21.2
5 11	16 53.62	-14 58.9	2.106	3.055	7.9	21.1	5 11	16 52.35	-15 53.4	2.002	2.953	8.0	21.0
5 21	16 45.41	-14 30.2	2.044	3.036	4.6	20.9	5 21	16 44.71	-15 42.2	1.959	2.953	4.5	20.8
5 31	16 36.13	-14 3.8	2.009	3.017	2.6	20.7	5 31	16 36.11	-15 33.7	1.942	2.952	2.2	20.6
6 10	16 26.64	-13 42.0	2.003	2.997	4.9	20.8	6 10	16 27.47	-15 29.2	1.954	2.951	4.5	20.8
6 20	16 17.84	-13 26.8	2.024	2.976	8.3	21.0	6 20	16 19.63	-15 30.2	1.992	2.950	8.0	21.0
6 30	16 10.52	-13 20.0	2.070	2.954	11.6	21.1	6 30	16 13.35	-15 37.6	2.055	2.950	11.3	21.2
7 10	16 5.25	-13 22.3	2.138	2.932	14.6	21.3	7 10	16 9.15	-15 51.9	2.139	2.948	14.1	21.4
473853	2016 <i>EV</i> ₁₃₀		5 31.8 45°29	3°1/30.8 17			261417	2005 <i>UJ</i> ₄₈₉		5 31.8 224°70	1°3/ 1.4 18		
5 1	16 59.83	-17 32.3	1.227	2.132	15.8	20.8	5 1	16 57.84	-27 54.0	2.534	3.403	10.0	20.8
5 11	16 54.01	-16 47.5	1.183	2.144	11.2	20.6	5 11	16 51.88	-27 34.8	2.454	3.397	7.2	20.6
5 21	16 45.71	-16 2.6	1.160	2.157	6.3	20.4	5 21	16 44.41	-27 8.0	2.400	3.391	4.1	20.4
5 31	16 36.14	-15 21.5	1.160	2.170	3.1	20.2	5 31	16 36.10	-26 34.2	2.374	3.385	1.4	20.2
6 10	16 26.76	-14 48.3	1.185	2.184	6.3	20.5	6 10	16 27.76	-25 54.9	2.376	3.379	3.2	20.3
6 20	16 18.88	-14 26.4	1.233	2.199	11.0	20.8	6 20	16 20.16	-25 12.8	2.407	3.372	6.4	20.5
6 30	16 13.48	-14 17.9	1.302	2.213	15.2	21.0	6 30	16 13.96	-24 31.2	2.464	3.366	9.4	20.7
7 10	16 11.06	-14 22.7	1.389	2.228	18.8	21.3	7 10	16 9.63	-23 52.9	2.544	3.359	11.9	20.9
312537	2009 <i>EM</i> ₁₈		5 31.8 89°39	4°9/ 2.4 16			198182	2004 <i>TR</i> ₁₀₈		5 31.8 11°37	6°5/ 2.1 18		
5 1	17 1.44	-35 41.8	2.107	2.959	12.3	21.4	5 1	17 1.37	-34 31.2	1.342	2.221	16.4	18.9
5 11	16 54.83	-36 14.4	2.038	2.961	9.6	21.2	5 11	16 55.65	-35 27.6	1.285	2.223	12.7	18.6
5 21	16 46.12	-36 34.5	1.993	2.964	6.8	21.1	5 21	16 46.88	-36 8.7	1.248	2.226	9.0	18.4
5 31	16 36.19	-36 39.6	1.974	2.966	5.0	21.0	5 31	16 36.28	-36 29.6	1.234	2.230	6.6	18.3
6 10	16 26.17	-36 29.5	1.982	2.968	5.7	21.0	6 10	16 25.53	-36 28.9	1.244	2.235	7.6	18.4
6 20	16 17.14	-36 6.4	2.016	2.970	8.2	21.2	6 20	16 16.26	-36 9.7	1.277	2.241	11.0	18.6
6 30	16 10.04	-35 34.5	2.075	2.973	11.0	21.3	6 30	16 9.81	-35 38.4	1.331	2.247	14.7	18.8
7 10	16 5.45	-34 58.9	2.155	2.975	13.6	21.5	7 10	16 6.87	-35 2.3	1.404	2.254	18.0	19.0
33058	Kovařík		5 31.8 78°76	3°1/ 1.4 18			279859	2001 <i>DC</i> ₈₇		5 31.8 138°65	5°5/29.9 18		
5 1	17 4.95	-27 45.5	1.344	2.231	15.9	19.1	5 1	16 58.52	-7 8.7	2.024	2.897	11.9	20.7
5 11	16 57.84	-28 19.4	1.292	2.242	11.5	18.9	5 11	16 52.41	-6 35.1	1.966	2.903	9.1	20.5
5 21	16 47.88	-28 43.9	1.262	2.254	6.8	18.7	5 21	16 44.70	-6 9.7	1.933	2.909	6.5	20.3
5 31	16 36.32	-28 56.0	1.255	2.265	3.2	18.5	5 31	16 36.12	-5 55.3	1.927	2.915	5.5	20.3
6 10	16 24.78	-28 55.7	1.274	2.276	5.5	18.7	6 10	16 27.56	-5 54.0	1.947	2.920	7.0	20.4
6 20	16 14.80	-28 46.0	1.318	2.288	10.0	18.9	6 20	16 19.86	-6 6.2	1.993	2.925	9.6	20.6
6 30	16 7.56	-28 31.7	1.384	2.299	14.2	19.2	6 30	16 13.72	-6 31.4	2.062	2.930	12.4	20.7
7 10	16 3.67	-28 17.8	1.468	2.310	17.8	19.5	7 10	16 9.60	-7 8.0	2.152	2.934	14.8	20.9
394738	2008 <i>EY</i> ₁₆₈		5 31.8 18°70	7°4/29.9 18			478077	2011 <i>UZ</i> ₂₅		5 31.8 195°36	2°7/30.3 16		
5 1	16 56.06	-1 56.4	1.885	2.754	12.9	20.1	5 1	16 56.20	-14 34.1	2.657	3.534	9.3	22.2
5 11	16 50.77	-1 30.1	1.832	2.758	10.3	20.0	5 11	16 50.56	-13 50.4	2.585	3.532	6.7	22.0
5 21	16 43.84	-1 17.4	1.802	2.763	8.1	19.9	5 21	16 43.65	-13 7.6	2.540	3.530	4.1	21.8
5 31	16 36.03	-1 21.4	1.797	2.769	7.4	19.8	5 31	16 36.05	-12 27.9	2.523	3.527	2.7	21.7
6 10	16 28.24	-1 43.5	1.816	2.775	8.5	19.9	6 10	16 28.44	-11 53.5	2.535	3.524	4.4	21.8
6 20	16 21.31	-2 22.9	1.860	2.781	10.8	20.0	6 20	16 21.47	-11 26.5	2.575	3.521	7.1	22.0
6 30	16 15.95	-3 17.6	1.927	2.788	13.4	20.2	6 30	16 15.69	-11 8.1	2.640	3.517	9.7	22.2
7 10	16 12.64	-4 24.3	2.013	2.796	15.7	20.4	7 10	16 11.51	-10 58.9	2.728	3.513	12.0	22.3
404607	2014 <i>EK</i> ₄₀		5 31.8 133°07	3°0/30.8 18			463930	2014 <i>UA</i> ₁₈₀		5 31.8 211°98	1°9/31.3 17		
5 1	16 57.75	-12 59.9	2.262	3.141	10.6	20.9	5 1	17 2.18	-18 8.9	1.612	2.500	13.6	21.7
5 11	16 51.80	-12 50.6	2.199	3.146	7.7	20.7	5 11	16 55.53	-17 53.6	1.542	2.496	9.7	21.5
5 21	16 44.35	-12 44.8	2.160	3.150	4.6	20.6	5 21	16 46.58	-17 37.7	1.496	2.492	5.3	21.2
5 31	16 36.08	-12 44.1	2.150	3.155	3.0	20.5	5 31	16 36.27	-17 22.5	1.476	2.488	1.9	21.0
6 10	16 27.79	-12 49.5	2.167	3.159	4.7	20.6	6 10	16 25.83	-17 10.1	1.482	2.483	5.1	21.2
6 20	16 20.25	-13 1.6	2.211	3.163	7.7	20.8	6 20	16 16.47	-17 2.7	1.514	2.477	9.6	21.4
6 30	16 14.13	-13 20.6	2.281	3.167	10.6	21.0	6 30	16 9.19	-17 2.4	1.569	2.472	13.7	21.6
7 10	16 9.89	-13 46.5	2.372	3.171	13.2	21.1	7 10	16 4.63	-17 10.5	1.644	2.465	17.1	21.8
175880	1999 <i>VD</i> ₁₈₅		5 31.8 157°01	1°5/31.2 17			261849	2006 <i>DM</i> ₁₆₄		5 31.8 174°86	3°4/ 2.2 18		
5 1	17 1.83	-19 15.6	1.856	2.739	12.4	20.9	5 1	16 58.40	-33 55.9	2.832	3.682	9.6	20.8
5 11	16 54.92	-18 49.8	1.793	2.745	8.7	20.7	5 11	16 52.25	-34 14.6	2.758	3.682	7.3	20.7
5 21	16 46.08	-18 21.9	1.755	2.751	4.7	20.4	5 21	16 44.61	-34 24.2	2.709	3.683	5.0	20.5
5 31	16 36.20	-17 53.6	1.744	2.756	1.5	20.2	5 31	16 36.13	-34 23.7	2.688	3.684	3.4	20.4
6 10	16 26.36	-17 27.3	1.761	2.761	4.5	20.4	6 10	16 27.58	-34 13.2	2.695	3.684	4.1	20.5
6 20	16 17.56	-17 5.5	1.804	2.765	8.5	20.7	6 20	16 19.73	-33 54.4	2.729	3.685	6.3	20.6
6 30	16 10.63	-16 50.7	1.872	2.769	12.1	20.9	6 30	16 13.23	-33 29.9	2.790	3.685	8.6	20.8
7 10	16 6.09	-16 44.2	1.961	2.772	15.1	21.1	7 10	16 8.56	-33 2.9	2.874	3.685	10.8	20.9
428201	2006 <i>UU</i> ₂₃₀		5 31.8 174°35	0°9/31.5 17			355663	2008 <i>EE</i> ₁₁₄		5 31.8 215°01</			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
116543	2004 <i>BZ</i> ₆₉		5 31.8	47°13	1.2°/31.5	18	385018	2012 <i>TX</i> ₂₆₈		5 31.8	51°22	3°0/	1.5 17
5 1	17 0.66	-19 54.6	1.335	2.234	15.1	19.8	5 1	17 1.56	-28 55.6	1.838	2.713	12.9	21.2
5 11	16 54.60	-19 45.4	1.285	2.245	10.7	19.6	5 11	16 55.05	-29 29.4	1.772	2.716	9.4	21.0
5 21	16 46.08	-19 34.3	1.258	2.256	5.7	19.3	5 21	16 46.32	-29 55.1	1.730	2.718	5.8	20.8
5 31	16 36.23	-19 22.5	1.254	2.267	1.2	19.0	5 31	16 36.29	-30 10.6	1.714	2.721	3.1	20.7
6 10	16 26.48	-19 12.0	1.275	2.279	5.1	19.3	6 10	16 26.14	-30 15.5	1.724	2.723	4.7	20.8
6 20	16 18.13	-19 5.4	1.321	2.291	10.0	19.6	6 20	16 17.02	-30 11.4	1.761	2.726	8.3	21.0
6 30	16 12.18	-19 4.9	1.388	2.303	14.2	19.9	6 30	16 9.90	-30 1.8	1.822	2.729	11.8	21.2
7 10	16 9.18	-19 12.0	1.474	2.316	17.8	20.2	7 10	16 5.42	-29 50.6	1.904	2.732	14.9	21.4
259363	2003 <i>HJ</i> ₂		5 31.8	70°67	11.4°/	1.2 18	262167	2006 <i>SN</i> ₁₀₇		5 31.8	23°90	5°1/	1.9 17
5 1	17 5.54	+ 9 25.1	1.652	2.471	16.7	19.7	5 1	17 3.48	-32 15.9	1.397	2.277	15.9	20.4
5 11	16 57.42	+ 9 15.5	1.612	2.490	14.3	19.6	5 11	16 57.00	-32 56.7	1.337	2.279	12.0	20.1
5 21	16 47.34	+ 8 39.2	1.593	2.510	12.3	19.5	5 21	16 47.58	-33 24.2	1.297	2.281	7.9	19.9
5 31	16 36.33	+ 7 33.6	1.597	2.529	11.4	19.5	5 31	16 36.38	-33 34.5	1.281	2.283	5.2	19.8
6 10	16 25.55	+ 6 0.4	1.626	2.549	11.9	19.6	6 10	16 25.05	-33 26.9	1.290	2.286	6.6	19.8
6 20	16 16.07	+ 4 4.6	1.680	2.569	13.6	19.8	6 20	16 15.17	-33 4.7	1.323	2.289	10.4	20.1
6 30	16 8.68	+ 1 53.2	1.757	2.588	15.8	19.9	6 30	16 8.00	-32 33.8	1.378	2.292	14.3	20.3
7 10	16 3.84	- 0 26.7	1.855	2.607	17.9	20.2	7 10	16 4.25	-32 1.0	1.452	2.296	17.8	20.5
282403	2003 <i>SV</i> ₃₂₀		5 31.8	3°92	0°2/31.9	17	321269	2009 <i>DY</i> ₁₃₂		5 31.8	218°03	5°0/30.2	17
5 1	16 59.07	-22 50.5	1.635	2.526	13.3	20.5	5 1	17 1.00	-11 36.2	1.614	2.500	13.7	21.3
5 11	16 53.33	-22 50.8	1.570	2.526	9.4	20.2	5 11	16 54.62	-10 50.1	1.546	2.495	10.1	21.1
5 21	16 45.39	-22 46.9	1.529	2.526	5.1	20.0	5 21	16 46.08	-10 8.5	1.503	2.490	6.6	20.9
5 31	16 36.19	-22 38.8	1.513	2.526	0.5	19.6	5 31	16 36.28	- 9 35.3	1.484	2.484	5.0	20.8
6 10	16 26.93	-22 28.0	1.523	2.527	4.3	19.9	6 10	16 26.38	- 9 14.0	1.492	2.478	7.2	20.9
6 20	16 18.73	-22 16.7	1.558	2.528	8.7	20.2	6 20	16 17.50	- 9 6.8	1.524	2.471	10.9	21.1
6 30	16 12.57	-22 7.8	1.617	2.530	12.7	20.4	6 30	16 10.60	- 9 14.5	1.579	2.465	14.6	21.3
7 10	16 9.02	-22 3.6	1.695	2.532	16.0	20.6	7 10	16 6.29	- 9 36.1	1.653	2.457	17.8	21.5
435649	2008 <i>SX</i> ₂₃₉		5 31.8	275°47	5°4/	1.6 18	427472	2001 <i>VG</i> ₁₁₅		5 31.8	254°60	0°3/31.9	18
5 1	17 5.06	-34 18.7	1.942	2.797	13.1	21.0	5 1	17 0.63	-24 52.2	1.821	2.704	12.6	20.6
5 11	16 57.95	-35 17.4	1.847	2.773	10.2	20.8	5 11	16 54.35	-24 20.9	1.741	2.692	9.0	20.4
5 21	16 48.13	-36 6.3	1.776	2.748	7.3	20.6	5 21	16 45.94	-23 41.4	1.684	2.679	4.9	20.1
5 31	16 36.42	-36 40.7	1.731	2.724	5.5	20.4	5 31	16 36.27	-22 55.0	1.653	2.667	0.5	19.7
6 10	16 24.09	-36 57.9	1.713	2.698	6.5	20.4	6 10	16 26.47	-22 4.4	1.650	2.654	4.1	20.0
6 20	16 12.51	-36 58.2	1.721	2.673	9.5	20.5	6 20	16 17.64	-21 13.7	1.674	2.641	8.5	20.2
6 30	16 2.99	-36 45.5	1.753	2.647	12.9	20.7	6 30	16 10.73	-20 27.5	1.722	2.628	12.5	20.4
7 10	15 56.42	-36 25.5	1.806	2.621	16.1	20.8	7 10	16 6.33	-19 49.3	1.791	2.614	15.8	20.6
30087	2000 <i>EL</i> ₁₂₂		5 31.8	66°21	4°3/30.6	18	370934	2005 <i>QO</i> ₁₂₉		5 31.8	160°87	2°6/30.8	17
5 1	17 1.38	-15 13.6	1.206	2.108	16.2	18.8	5 1	17 0.63	-14 39.9	2.249	3.124	10.8	21.9
5 11	16 55.19	-14 22.8	1.158	2.117	11.6	18.6	5 11	16 53.81	-14 18.6	2.185	3.132	7.7	21.7
5 21	16 46.42	-13 34.4	1.132	2.126	6.9	18.3	5 21	16 45.44	-13 59.2	2.148	3.139	4.5	21.5
5 31	16 36.27	-12 52.8	1.129	2.136	4.3	18.2	5 31	16 36.23	-13 43.2	2.138	3.145	2.6	21.4
6 10	16 26.27	-12 22.5	1.150	2.145	7.2	18.4	6 10	16 27.04	-13 32.4	2.157	3.150	4.6	21.6
6 20	16 17.77	-12 6.6	1.194	2.155	11.8	18.7	6 20	16 18.67	-13 28.0	2.203	3.154	7.8	21.8
6 30	16 11.82	-12 6.3	1.258	2.164	16.1	18.9	6 30	16 11.81	-13 31.1	2.276	3.158	10.8	22.0
7 10	16 8.96	-12 20.8	1.341	2.174	19.6	19.2	7 10	16 6.92	-13 41.8	2.369	3.162	13.4	22.1
149169	2002 <i>GK</i> ₁₂₂		5 31.8	93°44	0°8/	1.1 18	68089	2000 <i>YS</i> ₁₀₈		5 31.8	210°87	1°5/	1.3 17
5 1	16 58.17	-24 19.0	2.350	3.227	10.4	20.1	5 1	17 3.65	-26 27.8	1.792	2.668	13.1	19.8
5 11	16 52.15	-24 27.5	2.287	3.235	7.3	19.9	5 11	16 56.55	-26 28.6	1.716	2.663	9.4	19.5
5 21	16 44.57	-24 31.9	2.248	3.243	4.0	19.7	5 21	16 47.15	-26 21.6	1.664	2.657	5.3	19.3
5 31	16 36.14	-24 31.9	2.237	3.251	0.9	19.4	5 31	16 36.37	-26 6.0	1.638	2.650	1.6	19.0
6 10	16 27.71	-24 28.3	2.255	3.258	3.3	19.7	6 10	16 25.44	-25 43.1	1.640	2.643	4.3	19.2
6 20	16 20.05	-24 22.4	2.300	3.266	6.6	19.9	6 20	16 15.55	-25 15.6	1.668	2.635	8.6	19.4
6 30	16 13.88	-24 16.3	2.371	3.274	9.6	20.1	6 30	16 7.73	-24 47.8	1.721	2.627	12.5	19.6
7 10	16 9.64	-24 12.0	2.464	3.281	12.2	20.3	7 10	16 2.62	-24 23.4	1.795	2.618	15.8	19.8
140034	2001 <i>SO</i> ₆₆		5 31.8	281°19	5°1/	1.8 18	385456	2003 <i>SC</i> ₂₇₉		5 31.8	233°75	4°8/	2.4 17
5 1	17 3.54	-35 10.5	2.225	3.073	11.9	20.6	5 1	17 2.40	-35 29.8	2.057	2.909	12.6	21.4
5 11	16 56.62	-36 3.2	2.125	3.046	9.4	20.4	5 11	16 55.63	-35 51.5	1.979	2.903	9.7	21.2
5 21	16 47.31	-36 46.4	2.050	3.019	6.8	20.2	5 21	16 46.64	-36 0.3	1.924	2.896	6.8	21.0
5 31	16 36.37	-37 16.1	2.002	2.991	5.2	20.0	5 31	16 36.33	-35 53.5	1.895	2.890	4.9	20.9
6 10	16 24.88	-37 30.1	1.980	2.963	6.0	20.0	6 10	16 25.87	-35 31.2	1.894	2.882	5.7	20.9
6 20	16 14.03	-37 28.9	1.986	2.935	8.7	20.1	6 20	16 16.40	-34 56.1	1.918	2.875	8.4	21.1
6 30	16 4.94	-37 15.7	2.017	2.906	11.7	20.3	6 30	16 8.90	-34 12.8	1.968	2.868	11.4	21.3
7 10	15 58.43	-36 55.5	2.069	2.877	14.5	20.4	7 10	16 4.01	-33 26.9	2.039	2.860	14.3	21.4
149172	2002 <i>GH</i> ₁₄₆		5 31.8	113°27	2°2/30.9	18	90821	1995 <i>SA</i> ₂		5 31.8	154°79	2°3/30.8	18
5 1	16 56.70	-15 22.0	2.441	3.321	9.9	20.6	5 1	16 59.34	-16 0.6	2.382	3.259	10.2	20.2
5 11	16 50.98	-15 6.7	2.380	3.329	7.0	20.4	5 11	16 52.84	-15 30.4	2.320	3.267	7.3	20.0
5 21	16 43.90	-14 53.0	2.344	3.336	4.1	20.2	5 21	16 44.90	-15 0.6	2.283	3.275	4.2	19.8
5 31	16 36.10	-14 42.2	2.336	3.344	2.2	20.1	5 31	16 36.20	-14 33.2	2.275	3.283	2.3	19.7
6 10	16 28.32	-14 35.6	2.356	3.352	4.1	20.3	6 10	16 27.55	-14 10.2	2.295	3.289	4.3	19.9
6 20	16 21.24	-14 34.2	2.404	3.359	7.0	20.5	6 20	16 19.68	-13 53.1	2.343	3.295	7.3	20.1
6 30	16 15.49	-14 39.1	2.478	3.366	9.8	20.6	6 30	16 13.23	-13 43.5	2.418	3.301	10.2	20.3
7 10	16 11.47	-14 50.3	2.573	3.373	12.2	20.8	7 10	16 8.63	-13 41.9	2.514	3.306	12.7	20.4
291649	2006 <i>HB</i> ₄₉		5 31.8	173°23	4°6/	2.1 17	504764	2009 <i></i>					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
126497	2002 <i>CQ</i> ₅₉		5 31.8 35°74	8°2/ 3.5 18			502274	2015 <i>BC</i> ₁₃₀		5 31.8 242°17	1°7/31.3 17		
5 1	17 5.17	-42 48.3	1.785	2.616	15.1	19.5	5 1	17 1.77	-18 21.9	1.849	2.732	12.4	22.3
5 11	16 58.05	-43 33.5	1.718	2.617	12.5	19.3	5 11	16 55.16	-18 5.7	1.765	2.717	8.9	22.0
5 21	16 48.09	-43 58.8	1.673	2.618	9.9	19.2	5 21	16 46.43	-17 48.3	1.706	2.702	4.9	21.7
5 31	16 36.45	-43 59.3	1.651	2.619	8.4	19.1	5 31	16 36.37	-17 31.0	1.674	2.686	1.7	21.5
6 10	16 24.68	-43 34.3	1.654	2.620	8.7	19.1	6 10	16 26.06	-17 15.7	1.670	2.670	4.7	21.7
6 20	16 14.32	-42 47.2	1.682	2.620	10.6	19.2	6 20	16 16.61	-17 4.5	1.692	2.653	8.9	21.9
6 30	16 6.58	-41 45.0	1.732	2.621	13.3	19.4	6 30	16 8.96	-16 59.7	1.738	2.635	12.8	22.1
7 10	16 2.12	-40 35.9	1.802	2.622	15.9	19.5	7 10	16 3.77	-17 2.7	1.805	2.617	16.2	22.2
303791	2005 <i>SX</i> ₃		5 31.8 235°57	3°7/30.1 16			25853	2000 <i>ES</i> ₁₅₁		5 31.8 237°25	13°2/20.3 18		
5 1	16 55.99	-11 42.1	2.391	3.270	10.1	21.6	5 1	16 57.53	+19 38.0	2.404	3.152	14.1	18.6
5 11	16 50.56	-11 5.0	2.320	3.265	7.4	21.4	5 11	16 51.74	+21 28.5	2.356	3.140	13.4	18.5
5 21	16 43.74	-10 31.1	2.274	3.260	4.8	21.3	5 21	16 44.42	+22 56.9	2.329	3.128	13.2	18.5
5 31	16 36.13	-10 3.0	2.256	3.255	3.7	21.2	5 31	16 36.21	+23 57.3	2.323	3.115	13.5	18.5
6 10	16 28.47	-9 42.8	2.265	3.249	5.3	21.3	6 10	16 27.90	+24 26.5	2.337	3.102	14.2	18.5
6 20	16 21.47	-9 32.0	2.301	3.244	8.0	21.4	6 20	16 20.25	+24 24.4	2.369	3.089	15.2	18.6
6 30	16 15.76	-9 31.5	2.362	3.238	10.7	21.6	6 30	16 13.94	+23 53.3	2.418	3.075	16.4	18.6
7 10	16 11.78	-9 41.0	2.444	3.232	13.1	21.8	7 10	16 9.47	+22 57.7	2.480	3.060	17.4	18.7
410792	2009 <i>HM</i> ₃₀		5 31.8 117°41	1°4/31.4 16			476160	2007 <i>TH</i> ₃₆₈		5 31.8 204°11	2°2/ 1.4 16		
5 1	17 3.72	-19 3.6	1.605	2.491	13.8	21.9	5 1	17 0.82	-27 46.6	2.228	3.098	11.1	21.9
5 11	16 56.43	-18 52.5	1.553	2.506	9.7	21.7	5 11	16 54.27	-28 12.9	2.154	3.096	8.1	21.7
5 21	16 46.97	-18 40.2	1.524	2.521	5.2	21.5	5 21	16 45.85	-28 33.0	2.104	3.093	4.8	21.5
5 31	16 36.37	-18 27.7	1.522	2.535	1.4	21.2	5 31	16 36.32	-28 45.4	2.082	3.091	2.3	21.3
6 10	16 25.89	-18 16.9	1.547	2.548	4.8	21.5	6 10	16 26.65	-28 49.9	2.088	3.088	3.9	21.4
6 20	16 16.68	-18 9.8	1.597	2.561	9.1	21.8	6 20	16 17.78	-28 47.9	2.121	3.085	7.2	21.6
6 30	16 9.64	-18 8.5	1.671	2.574	13.0	22.0	6 30	16 10.55	-28 41.8	2.180	3.082	10.4	21.8
7 10	16 5.30	-18 14.3	1.766	2.585	16.2	22.3	7 10	16 5.53	-28 34.6	2.261	3.079	13.2	22.0
356715	2011 <i>UY</i> ₁₆₃		5 31.8 195°35	1°5/ 1.4 18			160139	2001 <i>CK</i> ₄₇		5 31.8 313°34	2°0/ 1.5 18		
5 1	16 58.43	-27 19.4	2.699	3.565	9.5	22.0	5 1	17 0.05	-27 52.1	1.798	2.678	12.9	19.6
5 11	16 52.27	-27 25.9	2.622	3.563	6.9	21.9	5 11	16 53.98	-27 52.2	1.728	2.675	9.3	19.3
5 21	16 44.65	-27 26.7	2.571	3.561	4.0	21.7	5 21	16 45.77	-27 43.5	1.680	2.673	5.4	19.1
5 31	16 36.20	-27 21.4	2.548	3.558	1.6	21.5	5 31	16 36.32	-27 25.6	1.659	2.670	2.1	18.9
6 10	16 27.68	-27 10.6	2.554	3.555	3.2	21.6	6 10	16 26.79	-26 59.7	1.665	2.668	4.3	19.0
6 20	16 19.82	-26 55.7	2.588	3.552	6.1	21.8	6 20	16 18.29	-26 28.9	1.696	2.665	8.2	19.2
6 30	16 13.29	-26 39.1	2.649	3.549	8.9	22.0	6 30	16 11.77	-25 57.2	1.752	2.663	12.0	19.5
7 10	16 8.54	-26 23.2	2.733	3.545	11.3	22.1	7 10	16 7.81	-25 28.7	1.828	2.661	15.2	19.7
462818	2010 <i>RE</i> ₁₁₅		5 31.8 243°60	2°3/30.9 17			87152	2000 <i>NF</i> ₂₀		5 31.8 268°79	4°9/ 2.7 18		
5 1	17 1.11	-18 24.8	1.661	2.550	13.2	21.4	5 1	17 3.59	-36 14.3	1.888	2.741	13.5	19.2
5 11	16 54.78	-17 43.2	1.585	2.539	9.5	21.1	5 11	16 56.73	-36 12.8	1.796	2.721	10.5	18.9
5 21	16 46.22	-16 58.9	1.533	2.528	5.3	20.9	5 21	16 47.37	-35 55.0	1.726	2.700	7.3	18.7
5 31	16 36.32	-16 14.5	1.506	2.517	2.3	20.7	5 31	16 36.45	-35 18.4	1.682	2.679	5.0	18.5
6 10	16 26.28	-15 33.7	1.506	2.505	5.4	20.8	6 10	16 25.29	-34 23.7	1.665	2.657	5.9	18.5
6 20	16 17.23	-15 0.1	1.532	2.493	9.7	21.0	6 20	16 15.17	-33 14.9	1.674	2.635	9.0	18.6
6 30	16 10.17	-14 36.8	1.581	2.480	13.8	21.3	6 30	16 7.24	-31 58.6	1.708	2.613	12.6	18.8
7 10	16 5.73	-14 25.4	1.650	2.467	17.3	21.5	7 10	16 2.18	-30 42.2	1.763	2.591	15.9	19.0
293123	2006 <i>XC</i> ₄₅		5 31.8 144°83	0°3/31.9 18			504736	2009 <i>VC</i> ₇₀		5 31.8 304°38	1°3/ 1.2 17		
5 1	16 57.80	-23 27.0	2.675	3.548	9.4	22.3	5 1	16 59.72	-25 51.1	1.510	2.401	14.2	20.9
5 11	16 51.73	-23 21.1	2.608	3.556	6.6	22.1	5 11	16 54.21	-25 44.0	1.429	2.383	10.3	20.6
5 21	16 44.31	-23 11.5	2.568	3.563	3.5	21.9	5 21	16 46.11	-25 28.3	1.369	2.365	5.8	20.3
5 31	16 36.18	-22 58.6	2.556	3.570	0.4	21.7	5 31	16 36.37	-25 3.9	1.334	2.347	1.4	20.0
6 10	16 28.05	-22 43.6	2.574	3.577	3.0	21.9	6 10	16 26.31	-24 32.4	1.325	2.330	4.7	20.2
6 20	16 20.63	-22 27.9	2.619	3.583	6.0	22.1	6 20	16 17.29	-23 57.5	1.340	2.312	9.6	20.4
6 30	16 14.50	-22 13.5	2.692	3.589	8.8	22.3	6 30	16 10.49	-23 24.0	1.378	2.295	14.1	20.6
7 10	16 10.09	-22 2.2	2.787	3.595	11.2	22.5	7 10	16 6.68	-22 56.3	1.434	2.279	18.0	20.8
357898	2005 <i>VX</i> ₁₇		5 31.8 223°12	6°1/29.4 18			483377	2016 <i>TU</i> ₆		5 31.8 233°51	3°0/ 1.9 18		
5 1	16 56.35	+ 0 23.3	2.742	3.589	10.0	20.8	5 1	16 59.77	-32 17.1	2.842	3.694	9.5	22.1
5 11	16 50.67	+ 0 0.6	2.671	3.581	8.1	20.7	5 11	16 53.32	-32 39.4	2.754	3.682	7.2	22.0
5 21	16 43.76	+ 0 14.2	2.625	3.574	6.6	20.6	5 21	16 45.29	-32 54.0	2.691	3.669	4.7	21.8
5 31	16 36.14	+ 0 15.2	2.606	3.566	6.2	20.5	5 31	16 36.30	-32 59.3	2.656	3.657	3.1	21.6
6 10	16 28.47	+ 0 2.2	2.614	3.557	7.1	20.6	6 10	16 27.13	-32 55.3	2.651	3.643	3.9	21.7
6 20	16 21.34	- 0 24.8	2.648	3.549	8.8	20.7	6 20	16 18.57	-32 43.1	2.673	3.629	6.3	21.8
6 30	16 15.32	- 1 4.7	2.707	3.540	10.8	20.8	6 30	16 11.32	-32 25.1	2.722	3.615	8.9	22.0
7 10	16 10.82	- 1 55.7	2.787	3.530	12.7	20.9	7 10	16 5.92	-32 4.6	2.794	3.601	11.2	22.1
51364	2000 <i>SU</i> ₃₃₃		5 31.8 150°50	0°9/31.2 18 R			344481	2002 <i>PH</i> ₁₇₇		5 31.8 265°57	1°9/ 1.4 17		
5 1	16 50.25	-16 48.8	4.856	5.729	5.5	19.2	5 1	17 0.28	-27 13.0	1.969	2.845	12.1	20.9
5 11	16 46.04	-16 47.6	4.785	5.732	3.9	19.0	5 11	16 54.09	-27 25.3	1.891	2.837	8.8	20.6
5 21	16 41.18	-16 46.8	4.742	5.735	2.1	18.9	5 21	16 45.84	-27 30.6	1.837	2.828	5.1	20.4
5 31	16 35.96	-16 46.9	4.728	5.739	0.9	18.8	5 31	16 36.35	-27 27.9	1.809	2.820	2.0	20.2
6 10	16 30.73	-16 48.4	4.744	5.742	2.1	18.9	6 10	16 26.68	-27 17.7	1.809	2.811	4.1	20.3
6 20	16 25.80	-16 51.7	4.789	5.745	3.8	19.1	6 20	16 17.88	-27 2.0	1.835	2.802	7.9	20.5
6 30	16 21.48	-16 57.2	4.862	5.748	5.4	19.2	6 30	16 10.89	-26 44.0	1.886	2.794	11.5	20.7
7 10	16 18.01	-17 5.3	4.959	5.750	6.9	19.3	7 10	16 6.32	-26 27.2	1.958	2.785	14.6	20.9
281973	2011 <i>GV</i> ₇₁		5 31.8 342°09	0°2/31.8 17			116000	2003 <i>WK</i>					

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
87790	2000 SS ₁₂₀		5 31.8	23°96'	3.4/	1.3 18	379973	2012 SQ ₂₁		5 31.8	330°78'	0.4/31.5	18
5 1	17 1.95	-27 23.4	1.382	2.272	15.3	17.2	5 1	16 50.79	-20 4.7	4.273	5.147	6.1	20.4
5 11	16 55.83	-28 17.6	1.327	2.279	11.2	17.0	5 11	16 46.54	-20 0.3	4.198	5.147	4.3	20.3
5 21	16 46.96	-29 4.3	1.294	2.286	6.7	16.8	5 21	16 41.51	-19 55.0	4.151	5.146	2.3	20.1
5 31	16 36.45	-29 39.9	1.285	2.293	3.4	16.6	5 31	16 36.07	-19 49.4	4.132	5.146	0.4	19.9
6 10	16 25.82	-30 2.9	1.301	2.302	5.6	16.7	6 10	16 30.60	-19 44.0	4.143	5.145	2.1	20.1
6 20	16 16.55	-30 14.6	1.341	2.311	9.9	17.0	6 20	16 25.49	-19 39.5	4.184	5.145	4.1	20.2
6 30	16 9.84	-30 18.6	1.404	2.321	13.9	17.3	6 30	16 21.07	-19 36.7	4.251	5.144	6.0	20.4
7 10	16 6.34	-30 19.7	1.485	2.331	17.4	17.5	7 10	16 17.64	-19 36.3	4.343	5.144	7.6	20.5
469819	2005 SZ ₁₆₀		5 31.8	298°67'	4.6/	2.3 17	492277	2013 XB ₁₈		5 31.8	239°52'	1°1/31.4	17
5 1	17 0.35	-34 59.0	2.141	2.997	12.1	21.0	5 1	17 0.94	-19 59.3	2.324	3.199	10.5	22.0
5 11	16 54.17	-35 28.7	2.063	2.989	9.3	20.8	5 11	16 54.28	-19 35.7	2.232	3.180	7.5	21.8
5 21	16 45.90	-35 46.9	2.008	2.981	6.5	20.6	5 21	16 45.88	-19 9.2	2.166	3.161	4.1	21.5
5 31	16 36.37	-35 51.1	1.979	2.973	4.7	20.5	5 31	16 36.42	-18 40.9	2.128	3.140	1.1	21.3
6 10	16 26.65	-35 41.0	1.978	2.966	5.5	20.5	6 10	16 26.76	-18 12.8	2.119	3.119	3.9	21.5
6 20	16 17.82	-35 18.5	2.002	2.959	8.1	20.6	6 20	16 17.76	-17 47.0	2.138	3.097	7.5	21.6
6 30	16 10.81	-34 47.5	2.051	2.951	11.0	20.8	6 30	16 10.22	-17 26.0	2.184	3.074	10.8	21.8
7 10	16 6.24	-34 12.9	2.122	2.944	13.7	21.0	7 10	16 4.70	-17 11.9	2.251	3.051	13.8	22.0
341106	2007 KN ₆		5 31.8	334°69'	0.6/31.9	17	497760	2006 SB ₂₉₅		5 31.8	207°54'	0.4/31.7	17
5 1	16 58.38	-22 34.4	1.381	2.280	14.7	20.5	5 1	17 2.16	-21 47.4	1.905	2.786	12.2	22.8
5 11	16 53.37	-22 52.1	1.308	2.267	10.5	20.2	5 11	16 55.35	-21 32.4	1.830	2.781	8.7	22.5
5 21	16 45.72	-23 6.9	1.257	2.255	5.7	19.9	5 21	16 46.50	-21 13.4	1.779	2.775	4.6	22.3
5 31	16 36.37	-23 17.8	1.230	2.243	0.8	19.5	5 31	16 36.46	-20 51.0	1.755	2.769	0.5	21.9
6 10	16 26.71	-23 25.1	1.227	2.233	4.9	19.8	6 10	16 26.32	-20 27.2	1.760	2.762	4.1	22.2
6 20	16 18.13	-23 30.3	1.249	2.223	9.9	20.1	6 20	16 17.11	-20 4.5	1.791	2.755	8.3	22.4
6 30	16 11.86	-23 36.0	1.292	2.214	14.5	20.3	6 30	16 9.73	-19 45.8	1.847	2.747	12.0	22.7
7 10	16 8.66	-23 44.9	1.353	2.206	18.4	20.5	7 10	16 4.78	-19 33.6	1.924	2.739	15.2	22.8
244864	2003 UK ₂₁₇		5 31.8	261°95'	1°6/31.4	18	514421	2016 TD ₉₇		5 31.8	320°85'	6°5/	2.8 18
5 1	17 2.08	-18 44.8	1.623	2.511	13.5	20.6	5 1	17 1.23	-39 33.4	2.052	2.893	13.1	20.5
5 11	16 55.69	-18 32.7	1.539	2.494	9.7	20.4	5 11	16 55.03	-40 15.6	1.974	2.884	10.5	20.3
5 21	16 46.86	-18 19.3	1.479	2.476	5.3	20.1	5 21	16 46.48	-40 42.9	1.919	2.876	8.1	20.2
5 31	16 36.46	-18 5.8	1.445	2.457	1.6	19.8	5 31	16 36.48	-40 51.9	1.889	2.867	6.6	20.1
6 10	16 25.73	-17 54.0	1.437	2.438	5.1	19.9	6 10	16 26.24	-40 41.5	1.885	2.859	7.1	20.1
6 20	16 15.91	-17 46.2	1.455	2.419	9.8	20.2	6 20	16 16.98	-40 13.7	1.906	2.851	9.2	20.2
6 30	16 8.12	-17 44.8	1.496	2.400	14.1	20.4	6 30	16 9.77	-39 33.3	1.951	2.844	11.8	20.3
7 10	16 3.12	-17 51.6	1.556	2.380	17.8	20.6	7 10	16 5.29	-38 46.3	2.016	2.837	14.4	20.5
93789	2000 WJ ₃₅		5 31.8	188°19'	2°7/31.0	18	353329	2010 MG ₄₄		5 31.8	318°12'	7°8/	4.4 18
5 1	17 0.80	-13 1.6	2.442	3.312	10.2	20.4	5 1	17 2.32	-45 8.8	2.096	2.911	13.8	19.9
5 11	16 53.96	-13 1.7	2.369	3.312	7.4	20.2	5 11	16 55.80	-45 28.0	2.016	2.902	11.5	19.7
5 21	16 45.60	-13 5.2	2.321	3.310	4.4	20.0	5 21	16 46.85	-45 27.3	1.958	2.893	9.4	19.6
5 31	16 36.36	-13 13.2	2.302	3.308	2.7	19.9	5 31	16 36.50	-45 3.2	1.924	2.884	7.9	19.5
6 10	16 27.04	-13 26.2	2.313	3.305	4.4	20.0	6 10	16 26.07	-44 15.7	1.915	2.875	8.1	19.5
6 20	16 18.40	-13 44.7	2.352	3.302	7.4	20.2	6 20	16 16.83	-43 8.2	1.931	2.867	9.7	19.5
6 30	16 11.14	-14 8.9	2.417	3.298	10.3	20.4	6 30	16 9.84	-41 47.0	1.971	2.859	12.0	19.7
7 10	16 5.72	-14 38.6	2.505	3.293	12.8	20.5	7 10	16 5.71	-40 19.8	2.033	2.851	14.4	19.8
317952	2003 WM ₁₃₅		5 31.8	116°89'	0°8/31.6	17	182027	2000 AJ ₁₄₅		5 31.8	106°04'	0°4/31.7	17
5 1	17 3.32	-20 18.1	1.701	2.585	13.2	20.8	5 1	17 2.78	-21 29.5	1.638	2.524	13.5	20.7
5 11	16 56.12	-20 13.4	1.647	2.600	9.3	20.6	5 11	16 55.84	-21 25.4	1.584	2.537	9.5	20.4
5 21	16 46.83	-20 6.5	1.617	2.614	5.0	20.3	5 21	16 46.74	-21 17.9	1.554	2.550	5.1	20.2
5 31	16 36.45	-19 57.9	1.614	2.628	0.8	20.1	5 31	16 36.49	-21 7.5	1.549	2.563	0.5	19.9
6 10	16 26.16	-19 49.2	1.638	2.641	4.4	20.4	6 10	16 26.32	-20 55.8	1.571	2.575	4.4	20.2
6 20	16 17.07	-19 42.4	1.689	2.654	8.6	20.6	6 20	16 17.38	-20 45.1	1.620	2.587	8.7	20.5
6 30	16 10.05	-19 39.6	1.763	2.666	12.4	20.9	6 30	16 10.56	-20 38.0	1.692	2.599	12.6	20.8
7 10	16 5.62	-19 42.5	1.858	2.678	15.5	21.1	7 10	16 6.41	-20 36.5	1.784	2.610	15.8	21.0
428313	2007 GT ₈		5 31.8	352°05'	1°5/31.4	17	77811	2001 QL ₁₃₃		5 31.8	353°92'	3°2/	2.1 18
5 1	16 56.06	-20 18.4	1.251	2.160	15.2	20.6	5 1	16 57.13	-31 24.2	1.458	2.346	14.8	18.3
5 11	16 51.70	-19 51.5	1.189	2.153	10.8	20.3	5 11	16 52.33	-31 3.5	1.391	2.340	11.0	18.0
5 21	16 44.76	-19 21.0	1.148	2.147	5.8	20.0	5 21	16 45.05	-30 27.5	1.345	2.335	6.8	17.8
5 31	16 36.30	-18 49.4	1.129	2.142	1.5	19.7	5 31	16 36.36	-29 36.4	1.323	2.332	3.4	17.6
6 10	16 27.73	-18 20.2	1.135	2.139	5.5	20.0	6 10	16 27.64	-28 33.2	1.326	2.329	5.1	17.7
6 20	16 20.40	-17 57.2	1.163	2.136	10.6	20.2	6 20	16 20.19	-27 23.8	1.353	2.327	9.3	17.9
6 30	16 15.43	-17 43.6	1.212	2.135	15.2	20.5	6 30	16 15.06	-26 14.9	1.402	2.327	13.5	18.1
7 10	16 13.48	-17 41.0	1.279	2.135	19.1	20.8	7 10	16 12.84	-25 12.6	1.472	2.327	17.1	18.4
499672	2010 VK ₁₈₈		5 31.8	239°82'	0°8/	1.1 18 C	153939	2001 YW ₁₁₀		5 31.8	262°71'	0°2/31.8	18
5 1	17 4.61	-24 36.8	2.353	3.218	10.8	23.5	5 1	17 0.58	-22 4.4	1.810	2.695	12.5	20.3
5 11	16 56.99	-24 39.7	2.253	3.195	7.8	23.2	5 11	16 54.42	-21 55.5	1.729	2.682	8.9	20.0
5 21	16 47.39	-24 37.4	2.179	3.172	4.3	23.0	5 21	16 46.10	-21 42.5	1.671	2.668	4.8	19.8
5 31	16 36.51	-24 29.4	2.133	3.147	0.9	22.7	5 31	16 36.45	-21 26.0	1.640	2.654	0.4	19.4
6 10	16 25.31	-24 16.1	2.118	3.120	3.6	22.8	6 10	16 26.58	-21 7.5	1.636	2.640	4.2	19.7
6 20	16 14.76	-23 59.2	2.131	3.093	7.4	23.0	6 20	16 17.60	-20 49.5	1.658	2.625	8.6	19.9
6 30	16 5.76	-23 41.6	2.172	3.064	10.8	23.2	6 30	16 10.47	-20 34.8	1.705	2.611	12.5	20.1
7 10	15 58.94	-23 26.2	2.234	3.034	13.8	23.3	7 10	16 5.85	-20 26.0	1.771	2.596	15.9	20.3
435154	2007 JC ₄₂		5 31.8	315°17'	12°3/	1.2 18	502440	2015 BF ₂₇₇		5 31.8	269°85'	8°2/	3.2 18
5 1	17 6.8												

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
330327	2006 UZ ₁₇₉		5 31.8 202°42'	1.9°/31.3	18		397711	2008 CN ₂₁₃		5 31.8 314°34'	2.4°/30.9	17	
5 1	17 1.87	-17 19.9	1.843	2.726	12.4	21.2	5 1	16 56.18	-17 3.6	1.971	2.861	11.4	20.6
5 11	16 55.17	-17 12.2	1.772	2.723	8.9	21.0	5 11	16 51.10	-16 30.5	1.892	2.847	8.2	20.3
5 21	16 46.43	-17 5.0	1.725	2.720	4.9	20.8	5 21	16 44.26	-15 56.9	1.838	2.833	4.7	20.1
5 31	16 36.49	-16 59.2	1.704	2.716	1.9	20.6	5 31	16 36.36	-15 24.9	1.810	2.819	2.4	19.9
6 10	16 26.43	-16 56.3	1.712	2.711	4.7	20.7	6 10	16 28.33	-14 57.2	1.808	2.806	4.8	20.0
6 20	16 17.30	-16 57.7	1.745	2.706	8.7	21.0	6 20	16 21.05	-14 36.3	1.833	2.793	8.5	20.2
6 30	16 10.00	-17 4.9	1.804	2.701	12.4	21.2	6 30	16 15.33	-14 24.2	1.882	2.780	11.9	20.4
7 10	16 5.11	-17 18.7	1.882	2.695	15.6	21.4	7 10	16 11.72	-14 21.8	1.951	2.768	15.0	20.6
303656	2005 LP ₃₅		5 31.8 271°70'	5.9°/30.3	18		469961	2006 DD ₂₉		5 31.8 0°24'	16.9°/4.1	16	
5 1	16 58.03	-4 28.6	2.123	2.990	11.7	20.3	5 1	17 8.83	-55 30.6	1.388	2.176	20.8	19.9
5 11	16 52.15	-4 14.5	2.059	2.989	9.1	20.2	5 11	17 2.88	-57 45.5	1.336	2.173	19.1	19.8
5 21	16 44.70	-4 10.8	2.019	2.988	6.8	20.0	5 21	16 51.79	-59 29.5	1.301	2.171	17.7	19.7
5 31	16 36.36	-4 20.0	2.005	2.987	5.9	20.0	5 31	16 36.97	-60 30.5	1.284	2.170	16.9	19.6
6 10	16 27.96	-4 43.0	2.018	2.986	7.1	20.0	6 10	16 21.26	-60 42.7	1.284	2.171	17.0	19.6
6 20	16 20.31	-5 19.6	2.056	2.985	9.5	20.2	6 20	16 7.80	-60 8.7	1.303	2.173	17.9	19.7
6 30	16 14.11	-6 8.3	2.119	2.984	12.2	20.3	6 30	15 59.08	-58 58.6	1.338	2.177	19.4	19.8
7 10	16 9.86	-7 6.9	2.202	2.983	14.6	20.5	7 10	15 56.12	-57 26.1	1.388	2.181	21.1	19.9
187730	2008 FX ₆₆		5 31.8 92°35'	0.3°/31.7	17		470724	2008 UF ₃₉		5 31.8 319°17'	2.6°/1.4	16	
5 1	16 57.48	-21 41.0	2.367	3.246	10.2	21.1	5 1	16 59.33	-27 6.5	1.458	2.349	14.6	21.0
5 11	16 51.65	-21 29.5	2.306	3.257	7.1	20.9	5 11	16 54.18	-27 29.5	1.374	2.328	10.7	20.7
5 21	16 44.37	-21 15.2	2.271	3.267	3.8	20.7	5 21	16 46.28	-27 45.1	1.313	2.307	6.3	20.4
5 31	16 36.33	-20 58.9	2.264	3.278	0.4	20.4	5 31	16 36.54	-27 51.2	1.275	2.286	2.7	20.1
6 10	16 28.32	-20 42.0	2.286	3.289	3.3	20.7	6 10	16 26.33	-27 47.5	1.262	2.266	5.2	20.2
6 20	16 21.11	-20 26.3	2.335	3.299	6.6	20.9	6 20	16 17.10	-27 35.9	1.273	2.246	9.9	20.4
6 30	16 15.31	-20 13.6	2.409	3.309	9.6	21.1	6 30	16 10.18	-27 20.6	1.306	2.228	14.5	20.6
7 10	16 11.37	-20 5.4	2.506	3.320	12.1	21.3	7 10	16 6.42	-27 6.2	1.358	2.210	18.5	20.8
131997	2002 CM ₉₇		5 31.8 122°43'	3.1°/31.1	17		330388	2006 XS ₅₁		5 31.8 208°42'	3.1°/30.9	17	R
5 1	17 2.69	-15 25.8	1.504	2.394	14.3	19.9	5 1	17 0.94	-14 45.4	1.831	2.715	12.5	21.4
5 11	16 55.90	-15 6.4	1.449	2.403	10.2	19.7	5 11	16 54.50	-14 20.7	1.761	2.711	9.0	21.2
5 21	16 46.83	-14 49.3	1.417	2.411	5.9	19.4	5 21	16 46.08	-13 58.1	1.714	2.706	5.3	21.0
5 31	16 36.53	-14 36.8	1.410	2.419	3.1	19.3	5 31	16 36.51	-13 39.7	1.694	2.702	3.1	20.8
6 10	16 26.27	-14 30.8	1.429	2.426	5.8	19.5	6 10	16 26.84	-13 27.6	1.702	2.696	5.4	21.0
6 20	16 17.24	-14 33.1	1.473	2.434	10.1	19.7	6 20	16 18.09	-13 23.7	1.736	2.691	9.2	21.2
6 30	16 10.41	-14 44.6	1.540	2.441	14.0	20.0	6 30	16 11.12	-13 29.2	1.793	2.685	12.8	21.4
7 10	16 6.34	-15 5.3	1.627	2.447	17.3	20.2	7 10	16 6.51	-13 44.2	1.871	2.678	15.9	21.6
84077	2002 QH ₁		5 31.8 229°76'	2.4°/30.9	18		190600	2000 UL ₇₀		5 31.8 279°80'	2.7°/1.6	18	
5 1	17 0.86	-17 45.9	1.760	2.647	12.7	20.3	5 1	17 1.84	-28 52.3	1.795	2.671	13.1	20.1
5 11	16 54.53	-17 7.8	1.686	2.639	9.1	20.1	5 11	16 55.58	-29 7.7	1.706	2.650	9.7	19.8
5 21	16 46.11	-16 28.0	1.636	2.631	5.1	19.8	5 21	16 46.87	-29 14.4	1.640	2.629	5.9	19.5
5 31	16 36.48	-15 49.1	1.613	2.623	2.4	19.6	5 31	16 36.58	-29 10.4	1.600	2.608	2.8	19.3
6 10	16 26.73	-15 14.3	1.616	2.614	5.2	19.8	6 10	16 25.91	-28 55.9	1.586	2.587	4.8	19.4
6 20	16 17.94	-14 46.6	1.645	2.605	9.3	20.0	6 20	16 16.11	-28 32.9	1.598	2.566	8.8	19.6
6 30	16 11.02	-14 28.5	1.699	2.595	13.1	20.2	6 30	16 8.32	-28 5.8	1.635	2.544	12.8	19.7
7 10	16 6.57	-14 21.5	1.772	2.585	16.4	20.4	7 10	16 3.30	-27 39.2	1.692	2.523	16.3	19.9
166287	2002 GQ ₁₅₃		5 31.8 161°49'	0.4°/31.9	17		77049	2001 CH ₄₈		5 31.8 278°54'	2.9°/1.6	18	
5 1	17 4.46	-22 19.1	1.586	2.471	14.0	20.2	5 1	17 3.22	-29 3.4	1.529	2.410	14.6	19.9
5 11	16 57.29	-22 37.9	1.522	2.474	10.0	19.9	5 11	16 56.90	-29 12.3	1.442	2.389	10.9	19.6
5 21	16 47.67	-22 53.4	1.481	2.478	5.4	19.7	5 21	16 47.73	-29 10.5	1.376	2.367	6.6	19.3
5 31	16 36.61	-23 4.6	1.467	2.480	0.6	19.3	5 31	16 36.66	-28 55.7	1.336	2.345	3.1	19.0
6 10	16 25.44	-23 11.7	1.479	2.483	4.5	19.6	6 10	16 25.12	-28 28.3	1.321	2.323	5.3	19.1
6 20	16 15.45	-23 16.2	1.516	2.485	9.1	19.9	6 20	16 14.64	-27 51.7	1.331	2.301	9.9	19.3
6 30	16 7.71	-23 20.7	1.578	2.486	13.3	20.1	6 30	16 6.52	-27 11.5	1.364	2.278	14.5	19.5
7 10	16 2.86	-23 27.8	1.660	2.487	16.7	20.4	7 10	16 1.63	-26 33.6	1.416	2.256	18.4	19.7
36245	1999 VP ₈₆		5 31.8 93°04'	5.8°/29.9	18		89648	2001 XT ₂₃₈		5 31.8 161°52'	1.4°/1.4	18	
5 1	16 58.13	-7 30.9	1.864	2.742	12.5	18.8	5 1	17 1.59	-27 0.0	1.927	2.802	12.3	19.4
5 11	16 52.37	-6 52.8	1.805	2.745	9.5	18.6	5 11	16 54.92	-26 46.2	1.859	2.806	8.9	19.2
5 21	16 44.86	-6 23.0	1.770	2.747	6.8	18.4	5 21	16 46.26	-26 24.1	1.816	2.809	5.0	19.0
5 31	16 36.40	-6 4.9	1.760	2.749	5.8	18.4	5 31	16 36.52	-25 53.9	1.799	2.812	1.5	18.7
6 10	16 27.92	-6 0.8	1.776	2.752	7.3	18.5	6 10	16 26.79	-25 17.6	1.811	2.814	3.9	18.9
6 20	16 20.34	-6 11.5	1.818	2.754	10.2	18.7	6 20	16 18.10	-24 38.6	1.849	2.816	7.8	19.1
6 30	16 14.40	-6 36.4	1.883	2.756	13.1	18.8	6 30	16 11.30	-24 0.7	1.912	2.818	11.4	19.4
7 10	16 10.61	-7 13.7	1.967	2.758	15.7	19.0	7 10	16 6.93	-23 27.6	1.996	2.819	14.4	19.6
503926	2003 BG ₅₉		5 31.8 80°61'	2.6°/1.8	17		240596	2004 UE ₅		5 31.8 103°12'	13.6°/6.1	17	
5 1	17 1.48	-30 1.9	2.193	3.058	11.5	21.6	5 1	17 27.44	-61 48.5	2.240	2.926	16.6	20.7
5 11	16 54.56	-30 15.6	2.144	3.082	8.4	21.5	5 11	17 15.61	-63 46.6	2.199	2.946	15.3	20.6
5 21	16 45.95	-30 20.3	2.120	3.106	5.1	21.3	5 21	16 58.44	-65 16.4	2.177	2.967	14.3	20.6
5 31	16 36.47	-30 15.4	2.124	3.130	2.7	21.2	5 31	16 37.50	-66 8.5	2.175	2.986	13.7	20.6
6 10	16 27.14	-30 1.7	2.155	3.154	4.0	21.3	6 10	16 15.75	-66 18.9	2.194	3.006	13.6	20.6
6 20	16 18.83	-29 41.5	2.214	3.177	7.0	21.6	6 20	15 56.37	-65 50.9	2.233	3.024	14.1	20.6
6 30	16 12.29	-29 18.1	2.298	3.200	9.9	21.8	6 30	15 41.77	-64 53.7	2.292	3.043	14.9	20.7
7 10	16 7.94	-28 55.0	2.404	3.223	12.4	22.0	7 10	15 32.90	-63 39.0	2.367	3.061	15.9	20.9
507006	2008 TC ₁₀₁		5 31.8 156°57'	0.7°/1.1	17		435390	2007 YO ₁₃		5 31.8 254°58'	0.8°/31.6	18	
5 1	17 0.38												

EPHEMERIDES

5 31.8

5 31.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
490137	2008 <i>UZ</i> ₁₃₂		5 31.8 231°27	1.7/ 1.4	17		337119	1999 <i>TK</i> ₁₂		5 31.8 109°75	19°2/ 9.1	13	C
5 1	17 1.22	-26 39.1	2.072	2.946	11.7	22.0	5 1	17 53.79	-60 46.5	1.249	1.977	25.6	21.7
5 11	16 54.72	-26 51.6	1.993	2.938	8.4	21.8	5 11	17 36.92	-63 17.8	1.227	2.016	23.2	21.7
5 21	16 46.22	-26 57.7	1.939	2.931	4.9	21.6	5 21	17 10.62	-65 1.0	1.221	2.052	21.0	21.6
5 31	16 36.53	-26 56.5	1.911	2.922	1.8	21.4	5 31	16 38.46	-65 35.3	1.232	2.086	19.6	21.6
6 10	16 26.67	-26 48.5	1.911	2.914	3.9	21.5	6 10	16 7.21	-64 56.0	1.262	2.119	19.2	21.7
6 20	16 17.64	-26 35.5	1.939	2.905	7.6	21.7	6 20	15 42.80	-63 17.5	1.311	2.149	19.7	21.8
6 30	16 10.34	-26 20.3	1.992	2.896	11.1	21.9	6 30	15 27.64	-61 4.6	1.377	2.177	20.9	22.0
7 10	16 5.38	-26 6.3	2.066	2.887	14.1	22.1	7 10	15 21.11	-58 40.5	1.458	2.202	22.3	22.2
56278	1999 <i>KB</i>		5 31.8 293°66	6°1/29.3	18		478329	2011 <i>WF</i> ₁₀₄		5 31.8 117°46	4°4/ 2.3	16	
5 1	16 56.24	- 6 20.5	2.045	2.920	11.7	18.6	5 1	17 0.94	-34 57.6	2.336	3.187	11.4	21.8
5 11	16 51.05	- 5 31.6	1.970	2.906	9.1	18.4	5 11	16 54.44	-35 31.4	2.266	3.189	8.7	21.6
5 21	16 44.20	- 4 50.2	1.920	2.892	6.9	18.2	5 21	16 46.05	-35 54.4	2.220	3.192	6.1	21.4
5 31	16 36.38	- 4 20.3	1.895	2.878	6.1	18.2	5 31	16 36.55	-36 4.4	2.201	3.194	4.5	21.3
6 10	16 28.43	- 4 4.7	1.897	2.864	7.6	18.2	6 10	16 26.94	-36 1.0	2.210	3.196	5.2	21.4
6 20	16 21.17	- 4 5.0	1.923	2.850	10.2	18.3	6 20	16 18.19	-35 46.0	2.245	3.198	7.5	21.5
6 30	16 15.36	- 4 21.1	1.973	2.837	13.0	18.5	6 30	16 11.14	-35 22.8	2.305	3.201	10.2	21.7
7 10	16 11.51	- 4 51.5	2.042	2.823	15.6	18.7	7 10	16 6.36	-34 55.7	2.387	3.203	12.6	21.9
302199	2001 <i>UB</i> ₇₄		5 31.8 236°19	1°2/ 1.1	17		176428	2001 <i>VP</i> ₇₇		5 31.8 211°32	0°7/31.6	18	
5 1	17 5.07	-24 14.6	1.580	2.463	14.2	21.3	5 1	16 58.41	-19 46.1	2.683	3.557	9.3	20.9
5 11	16 57.98	-24 34.9	1.502	2.452	10.2	21.0	5 11	16 52.31	-19 43.7	2.603	3.551	6.6	20.7
5 21	16 48.21	-24 50.3	1.446	2.441	5.7	20.7	5 21	16 44.79	-19 40.0	2.549	3.544	3.5	20.5
5 31	16 38.71	-24 59.2	1.417	2.429	1.4	20.4	5 31	16 36.45	-19 35.5	2.523	3.537	0.7	20.3
6 10	16 24.85	-25 1.5	1.413	2.417	4.7	20.6	6 10	16 28.02	-19 31.2	2.527	3.529	3.2	20.5
6 20	16 14.05	-24 58.7	1.436	2.404	9.5	20.8	6 20	16 20.18	-19 28.0	2.560	3.521	6.3	20.7
6 30	16 5.53	-24 54.5	1.482	2.391	13.9	21.0	6 30	16 13.58	-19 27.3	2.618	3.512	9.2	20.8
7 10	16 0.06	-24 52.3	1.548	2.377	17.6	21.3	7 10	16 8.67	-19 30.4	2.700	3.503	11.6	21.0
386727	2010 <i>AP</i> ₁		5 31.8 240°61	6°3/29.7	18		72999	2002 <i>EN</i> ₂₀		5 31.8 16°47	5°6/30.4	18	
5 1	16 59.43	- 4 27.3	2.102	2.966	11.9	21.4	5 1	16 59.58	-11 39.7	1.259	2.160	15.8	18.9
5 11	16 53.26	- 3 54.8	2.026	2.953	9.4	21.2	5 11	16 54.04	-10 57.7	1.206	2.161	11.6	18.7
5 21	16 45.39	- 3 31.8	1.973	2.940	7.1	21.0	5 21	16 46.00	-10 22.5	1.173	2.163	7.6	18.5
5 31	16 36.48	- 3 21.7	1.947	2.926	6.3	21.0	5 31	16 36.55	- 9 58.4	1.163	2.166	5.6	18.4
6 10	16 27.41	- 3 26.7	1.948	2.912	7.7	21.0	6 10	16 27.08	- 9 49.1	1.178	2.168	8.0	18.5
6 20	16 19.04	- 3 47.2	1.974	2.897	10.2	21.1	6 20	16 18.91	- 9 56.0	1.215	2.172	12.1	18.7
6 30	16 12.14	- 4 22.7	2.024	2.882	13.0	21.3	6 30	16 13.09	-10 19.1	1.273	2.175	16.2	19.0
7 10	16 7.26	- 5 10.9	2.095	2.866	15.5	21.4	7 10	16 10.23	-10 56.3	1.348	2.179	19.6	19.2
47335	1999 <i>XB</i> ₃₃		5 31.8 146°58	1°4/31.4	18	R	474265	2001 <i>TV</i> ₁₁₂		5 31.8 212°28	1°9/30.8	17	
5 1	17 2.64	-18 39.6	1.987	2.866	11.9	19.4	5 1	16 57.40	-17 17.2	2.680	3.556	9.3	22.0
5 11	16 55.48	-18 27.7	1.927	2.877	8.4	19.2	5 11	16 51.53	-16 39.1	2.601	3.549	6.6	21.8
5 21	16 46.50	-18 15.0	1.892	2.887	4.5	19.0	5 21	16 44.35	-16 0.1	2.549	3.542	3.7	21.6
5 31	16 36.56	-18 2.2	1.884	2.896	1.4	18.8	5 31	16 36.42	-15 21.9	2.525	3.534	1.9	21.5
6 10	16 26.66	-17 51.1	1.905	2.905	4.2	19.0	6 10	16 28.45	-14 46.8	2.531	3.526	3.8	21.6
6 20	16 17.74	-17 43.2	1.953	2.913	8.0	19.2	6 20	16 21.10	-14 16.8	2.565	3.517	6.7	21.8
6 30	16 10.59	-17 40.5	2.026	2.921	11.4	19.5	6 30	16 14.96	-13 53.6	2.625	3.508	9.5	21.9
7 10	16 5.72	-17 43.9	2.120	2.927	14.3	19.7	7 10	16 10.46	-13 38.5	2.707	3.499	11.9	22.1
156391	2001 <i>YX</i> ₁₀₇		5 31.8 204°12	2°1/31.1	18		331483	1998 <i>SY</i> ₄₉		5 31.8 291°56	0°2/31.9	18	
5 1	17 0.40	-16 26.3	2.288	3.165	10.6	21.0	5 1	16 54.95	-23 14.3	3.018	3.892	8.4	20.7
5 11	16 53.83	-16 6.7	2.212	3.159	7.6	20.8	5 11	16 49.85	-23 7.8	2.921	3.869	6.0	20.5
5 21	16 45.64	-15 47.5	2.161	3.154	4.3	20.5	5 21	16 43.49	-22 58.2	2.850	3.845	3.2	20.3
5 31	16 36.50	-15 30.0	2.137	3.147	2.1	20.4	5 31	16 36.36	-22 45.7	2.808	3.822	0.3	20.0
6 10	16 27.27	-15 15.9	2.143	3.140	4.3	20.5	6 10	16 29.08	-22 31.2	2.794	3.798	2.7	20.2
6 20	16 18.77	-15 6.8	2.177	3.132	7.6	20.7	6 20	16 22.25	-22 16.0	2.809	3.774	5.6	20.4
6 30	16 11.73	-15 4.2	2.236	3.123	10.8	20.9	6 30	16 16.47	-22 1.9	2.851	3.750	8.3	20.5
7 10	16 6.65	-15 8.8	2.317	3.114	13.5	21.1	7 10	16 12.17	-21 50.5	2.916	3.726	10.7	20.7
168175	2006 <i>HP</i> ₈₃		5 31.8 324°82	3°5/30.5	17		234558	2001 <i>WA</i> ₂₉		5 31.8 192°18	1°6/31.4	18	
5 1	16 57.18	-15 16.3	1.673	2.567	12.9	19.8	5 1	17 1.18	-17 42.5	2.101	2.980	11.3	20.6
5 11	16 51.99	-14 31.5	1.604	2.559	9.3	19.6	5 11	16 54.51	-17 35.8	2.029	2.979	8.0	20.4
5 21	16 44.80	-13 47.6	1.557	2.551	5.6	19.3	5 21	16 46.05	-17 29.2	1.982	2.977	4.4	20.1
5 31	16 36.43	-13 7.8	1.536	2.543	3.5	19.2	5 31	16 36.56	-17 23.4	1.962	2.974	1.6	19.9
6 10	16 27.97	-12 35.8	1.541	2.535	6.0	19.3	6 10	16 26.98	-17 19.8	1.971	2.971	4.2	20.1
6 20	16 20.43	-12 14.4	1.571	2.528	9.8	19.5	6 20	16 18.22	-17 19.5	2.008	2.967	7.8	20.3
6 30	16 14.72	-12 5.5	1.623	2.522	13.5	19.7	6 30	16 11.07	-17 24.1	2.069	2.963	11.2	20.5
7 10	16 11.40	-12 9.2	1.695	2.515	16.7	19.9	7 10	16 6.07	-17 34.5	2.152	2.959	14.1	20.7
463126	2011 <i>VB</i> ₂		5 31.8 153°85	3°4/ 1.9	16		406315	2007 <i>JY</i> ₂₁		5 31.8 333°01	0°8/31.9	17	
5 1	17 7.03	-31 0.0	1.820	2.683	13.5	22.5	5 1	16 59.89	-22 36.3	1.039	1.950	17.4	20.5
5 11	16 58.93	-31 16.4	1.756	2.692	10.0	22.3	5 11	16 55.13	-22 59.6	0.973	1.938	12.5	20.2
5 21	16 48.48	-31 21.4	1.717	2.701	6.3	22.1	5 21	16 47.00	-23 19.9	0.927	1.926	6.9	19.9
5 31	16 36.72	-31 13.0	1.704	2.709	3.5	22.0	5 31	16 36.65	-23 35.4	0.903	1.916	1.0	19.4
6 10	16 24.97	-30 51.8	1.718	2.716	5.0	22.1	6 10	16 25.86	-23 46.0	0.900	1.907	5.8	19.7
6 20	16 14.48	-30 21.1	1.760	2.723	8.5	22.3	6 20	16 16.48	-23 53.4	0.919	1.898	11.8	20.0
6 30	16 6.25	-29 45.8	1.826	2.728	12.1	22.5	6 30	16 10.08	-24 1.1	0.958	1.891	17.2	20.3
7 10	16 0.86	-29 11.2	1.914	2.733	15.1	22.7	7 10	16 7.55	-24 12.5	1.013	1.885	21.8	20.6
17847	1998 <i>HQ</i> ₁₁₅		5 31.8 165°75	4°2/30.4	18	R	256544	2007					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
159638	2002 <i>CO</i> ₈₇		5 31.8 245°05	0°5/31.7	17		116592	2004 <i>BF</i> ₁₀₃		5 31.8 55°72	22°8/31.9	18	
5 1	17 0.45	-20 56.9	1.774	2.660	12.7	20.3	5 1	17 28.90	-56 46.0	1.017	1.810	26.5	18.9
5 11	16 54.29	-20 54.6	1.704	2.658	9.0	20.1	5 11	17 20.87	-60 43.6	0.983	1.816	24.6	18.8
5 21	16 46.05	-20 49.7	1.658	2.655	4.8	19.8	5 21	17 3.67	-64 2.1	0.965	1.823	23.3	18.7
5 31	16 36.58	-20 42.9	1.639	2.652	0.6	19.5	5 31	16 38.15	-66 17.0	0.962	1.830	22.8	18.7
6 10	16 27.00	-20 35.2	1.646	2.650	4.2	19.8	6 10	16 9.32	-67 13.6	0.976	1.837	23.1	18.8
6 20	16 18.38	-20 28.6	1.680	2.647	8.5	20.0	6 20	15 44.42	-66 56.8	1.003	1.845	24.2	18.9
6 30	16 11.66	-20 25.3	1.737	2.644	12.3	20.2	6 30	15 28.81	-65 47.5	1.044	1.852	25.6	19.0
7 10	16 7.41	-20 27.4	1.815	2.641	15.6	20.5	7 10	15 23.66	-64 10.6	1.095	1.860	27.1	19.2
259374	2003 <i>HQ</i> ₂₆		5 31.8 8°74	7°6/28.4	18		373571	2001 <i>YF</i> ₅		5 31.8 165°89	2°9/31.1	17	
5 1	16 54.41	-6 9.9	1.648	2.536	13.4	19.5	5 1	17 1.75	-12 31.7	2.271	3.142	10.9	21.4
5 11	16 49.90	-4 43.7	1.598	2.538	10.5	19.3	5 11	16 54.74	-12 32.9	2.204	3.147	7.9	21.3
5 21	16 43.61	-3 26.9	1.570	2.541	8.2	19.2	5 21	16 46.12	-12 38.3	2.164	3.152	4.8	21.1
5 31	16 36.38	-2 25.5	1.567	2.545	7.6	19.2	5 31	16 36.61	-12 48.8	2.151	3.156	2.9	21.0
6 10	16 29.19	-1 44.1	1.588	2.550	9.3	19.3	6 10	16 27.05	-13 4.9	2.168	3.160	4.7	21.1
6 20	16 22.94	-1 24.7	1.632	2.555	11.9	19.4	6 20	16 18.27	-13 27.0	2.212	3.163	7.8	21.3
6 30	16 18.40	-1 27.1	1.697	2.562	14.8	19.6	6 30	16 10.98	-13 55.0	2.283	3.165	10.8	21.5
7 10	16 16.05	-1 48.6	1.781	2.569	17.3	19.8	7 10	16 5.67	-14 28.7	2.375	3.167	13.4	21.7
74159	1998 <i>QA</i> ₁₀₀		5 31.8 289°15	1°0/ 1.1	18		207505	2006 <i>JU</i> ₁		5 31.9 0°78	2°2/31.0	17	
5 1	16 59.89	-24 42.3	1.846	2.729	12.4	19.4	5 1	16 56.35	-19 49.4	1.399	2.303	14.3	19.8
5 11	16 53.93	-24 47.0	1.771	2.722	8.9	19.1	5 11	16 51.67	-18 55.7	1.339	2.301	10.1	19.6
5 21	16 45.87	-24 46.3	1.720	2.715	4.9	18.9	5 21	16 44.72	-17 57.8	1.302	2.300	5.5	19.3
5 31	16 36.57	-24 39.7	1.695	2.708	1.1	18.6	5 31	16 36.51	-16 59.8	1.288	2.300	2.2	19.1
6 10	16 27.10	-24 28.3	1.697	2.702	4.0	18.8	6 10	16 28.30	-16 6.4	1.299	2.300	5.6	19.3
6 20	16 18.56	-24 14.1	1.726	2.695	8.1	19.0	6 20	16 21.27	-15 22.3	1.334	2.302	10.1	19.6
6 30	16 11.87	-24 0.2	1.779	2.688	11.9	19.2	6 30	16 16.37	-14 50.8	1.391	2.305	14.3	19.8
7 10	16 7.65	-23 49.3	1.852	2.682	15.1	19.4	7 10	16 14.17	-14 33.5	1.467	2.309	17.8	20.1
433165	2012 <i>TW</i> ₂₆₀		5 31.8 247°08	0°4/31.7	17		510778	2013 <i>AM</i> ₆₁		5 31.9 266°94	5°0/ 2.8	18	
5 1	16 59.97	-20 32.8	1.974	2.857	11.7	21.0	5 1	17 1.50	-37 11.5	2.175	3.021	12.2	21.3
5 11	16 53.82	-20 39.5	1.900	2.852	8.3	20.7	5 11	16 55.06	-37 26.8	2.092	3.011	9.6	21.1
5 21	16 45.76	-20 44.5	1.851	2.848	4.5	20.5	5 21	16 46.49	-37 28.3	2.033	3.000	6.9	20.9
5 31	16 36.56	-20 48.1	1.829	2.843	0.5	20.2	5 31	16 36.66	-37 13.7	1.999	2.989	5.2	20.8
6 10	16 27.22	-20 50.9	1.835	2.838	3.9	20.4	6 10	16 26.67	-36 43.1	1.992	2.978	5.7	20.8
6 20	16 18.71	-20 54.1	1.867	2.833	7.9	20.7	6 20	16 17.62	-35 59.2	2.012	2.967	8.2	20.9
6 30	16 11.90	-20 59.4	1.924	2.828	11.4	20.9	6 30	16 10.44	-35 6.9	2.056	2.956	11.0	21.1
7 10	16 7.35	-21 8.4	2.002	2.823	14.5	21.1	7 10	16 5.75	-34 11.7	2.123	2.944	13.8	21.3
239684	2008 <i>YR</i> ₈₀		5 31.8 184°52	0°4/31.9	18		326121	2011 <i>WU</i> ₁₂₆		5 31.9 261°73	2°1/ 1.4	18	
5 1	16 59.72	-23 21.6	2.100	2.979	11.3	20.8	5 1	17 0.41	-27 27.3	2.334	3.203	10.7	20.3
5 11	16 53.53	-23 21.9	2.030	2.979	8.0	20.6	5 11	16 54.10	-27 56.6	2.249	3.191	7.8	20.1
5 21	16 45.55	-23 18.1	1.984	2.979	4.3	20.3	5 21	16 45.94	-28 20.5	2.189	3.178	4.7	19.9
5 31	16 36.54	-23 10.3	1.965	2.979	0.5	20.0	5 31	16 36.62	-28 37.6	2.156	3.165	2.2	19.7
6 10	16 27.47	-22 59.5	1.975	2.979	3.6	20.3	6 10	16 27.06	-28 47.3	2.152	3.152	3.8	19.8
6 20	16 19.24	-22 47.5	2.011	2.978	7.3	20.5	6 20	16 18.17	-28 50.6	2.176	3.139	7.1	20.0
6 30	16 12.65	-22 36.7	2.073	2.977	10.7	20.7	6 30	16 10.80	-28 49.5	2.225	3.126	10.2	20.2
7 10	16 8.23	-22 29.3	2.156	2.976	13.6	20.9	7 10	16 5.53	-28 47.0	2.296	3.113	13.0	20.3
502950	2015 <i>EF</i> ₅₉		5 31.8 322°60	4°8/ 1.8	18		476458	2008 <i>EP</i> ₁₀₈		5 31.9 238°01	3°3/ 2.2	18	
5 1	17 2.60	-31 40.1	1.511	2.389	15.0	20.2	5 1	17 0.19	-32 51.9	2.421	3.277	10.8	21.8
5 11	16 56.46	-32 25.8	1.440	2.382	11.3	20.0	5 11	16 53.86	-32 59.4	2.338	3.268	8.2	21.6
5 21	16 47.49	-33 0.6	1.391	2.375	7.5	19.7	5 21	16 45.75	-32 56.8	2.280	3.259	5.4	21.4
5 31	16 36.71	-33 20.4	1.366	2.368	4.9	19.6	5 31	16 36.60	-32 43.0	2.249	3.250	3.4	21.2
6 10	16 25.61	-33 23.7	1.366	2.362	6.3	19.6	6 10	16 27.33	-32 18.5	2.245	3.240	4.3	21.3
6 20	16 15.70	-33 12.6	1.390	2.356	10.1	19.8	6 20	16 18.84	-31 45.5	2.270	3.230	7.0	21.4
6 30	16 8.26	-32 52.1	1.437	2.350	14.0	20.0	6 30	16 11.92	-31 7.5	2.320	3.220	9.9	21.6
7 10	16 4.08	-32 28.0	1.503	2.345	17.5	20.3	7 10	16 7.12	-30 28.7	2.392	3.210	12.5	21.8
306986	2001 <i>VN</i> ₁₁₃		5 31.8 308°57	1°7/ 1.3	18		16903	1998 <i>DD</i> ₁₅		5 31.9 149°25	4°8/29.8	18 R	
5 1	17 0.28	-25 39.8	1.474	2.366	14.4	19.5	5 1	16 59.68	-8 22.7	2.310	3.178	10.8	19.3
5 11	16 54.78	-25 51.1	1.394	2.348	10.5	19.2	5 11	16 53.16	-7 35.9	2.254	3.189	8.2	19.2
5 21	16 46.58	-25 55.6	1.336	2.331	6.0	18.9	5 21	16 45.22	-6 55.1	2.224	3.199	5.8	19.0
5 31	16 36.65	-25 51.9	1.301	2.314	1.8	18.6	5 31	16 36.56	-6 23.1	2.221	3.209	4.9	19.0
6 10	16 26.32	-25 40.7	1.292	2.297	4.9	18.8	6 10	16 27.95	-6 2.4	2.246	3.218	6.3	19.1
6 20	16 17.03	-25 24.4	1.308	2.281	9.8	19.0	6 20	16 20.14	-5 54.0	2.298	3.226	8.7	19.2
6 30	16 10.02	-25 7.1	1.346	2.265	14.3	19.2	6 30	16 13.75	-5 58.2	2.375	3.233	11.3	19.4
7 10	16 6.08	-24 53.1	1.402	2.249	18.2	19.4	7 10	16 9.19	-6 13.9	2.472	3.240	13.5	19.6
224750	2006 <i>DA</i> ₉₁		5 31.8 285°76	2°3/30.8	18		168841	2000 <i>TB</i> ₆₃		5 31.9 262°80	0°9/ 1.1	18	
5 1	16 55.26	-15 7.7	2.555	3.436	9.5	20.4	5 1	17 3.38	-23 53.9	1.519	2.406	14.3	20.7
5 11	16 50.12	-14 45.7	2.479	3.428	6.8	20.3	5 11	16 56.89	-24 5.3	1.440	2.393	10.3	20.4
5 21	16 43.65	-14 25.1	2.428	3.420	4.0	20.1	5 21	16 47.71	-24 11.6	1.383	2.379	5.7	20.1
5 31	16 36.40	-14 7.3	2.405	3.412	2.3	19.9	5 31	16 36.78	-24 11.9	1.352	2.365	1.1	19.8
6 10	16 29.08	-13 54.0	2.410	3.404	4.1	20.0	6 10	16 25.49	-24 6.4	1.346	2.350	4.7	20.0
6 20	16 22.36	-13 46.5	2.442	3.396	7.0	20.2	6 20	16 15.24	-23 57.4	1.366	2.336	9.7	20.3
6 30	16 16.83	-13 45.8	2.500	3.388	9.7	20.4	6 30	16 7.28	-23 48.4	1.408	2.321	14.2	20.5
7 10	16 12.93	-13 52.4	2.580	3.381	12.2	20.5	7 10	16 2.40	-23 43.1	1.470	2.306	18.1	20.7
106426	2000 <i>VN</i> ₄₃		5 31.8 179°38	1°0/ 1.3	17		238987	2006 <i>BO</i> <					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
52049	2002 <i>PL</i> ₉₅		5 31.9 358°52	2°6/31.4	18		143610	2003 <i>FA</i> ₁₁₇		5 31.9 56°14	1°3/31.4	17	
5 1	16 57.16	-17 25.6	1.059	1.974	16.8	18.6	5 1	16 57.97	-19 17.2	1.970	2.857	11.6	20.2
5 11	16 52.84	-17 14.5	1.004	1.970	12.0	18.3	5 11	16 52.21	-18 56.2	1.919	2.872	8.1	20.0
5 21	16 45.60	-17 4.9	0.968	1.967	6.7	18.0	5 21	16 44.81	-18 33.9	1.891	2.887	4.4	19.8
5 31	16 36.61	-16 59.1	0.954	1.966	2.6	17.7	5 31	16 36.57	-18 11.9	1.891	2.903	1.3	19.6
6 10	16 27.49	-16 59.4	0.962	1.966	6.3	18.0	6 10	16 28.43	-17 52.1	1.917	2.919	4.1	19.8
6 20	16 19.78	-17 7.8	0.991	1.967	11.7	18.3	6 20	16 21.23	-17 36.6	1.971	2.935	7.7	20.1
6 30	16 14.76	-17 25.6	1.041	1.969	16.6	18.5	6 30	16 15.69	-17 27.0	2.049	2.951	10.9	20.3
7 10	16 13.10	-17 52.9	1.107	1.973	20.7	18.8	7 10	16 12.25	-17 24.4	2.148	2.967	13.7	20.5
16919	1998 <i>FF</i> ₃₅		5 31.9 4°03	0°5/31.7	18		496229	2012 <i>BB</i> ₁₄₇		5 31.9 34°26	3°7/1.9	17	
5 1	16 57.70	-21 29.1	1.966	2.852	11.6	17.8	5 1	17 1.60	-30 20.4	1.151	2.046	17.3	20.9
5 11	16 52.17	-21 15.1	1.899	2.852	8.2	17.5	5 11	16 55.85	-30 26.4	1.105	2.058	12.7	20.6
5 21	16 44.86	-20 57.9	1.856	2.853	4.4	17.3	5 21	16 47.10	-30 17.4	1.080	2.071	7.8	20.4
5 31	16 36.55	-20 38.6	1.839	2.853	0.6	17.0	5 31	16 36.76	-29 52.3	1.076	2.085	3.9	20.2
6 10	16 28.20	-20 18.8	1.850	2.854	3.8	17.3	6 10	16 26.59	-29 13.7	1.096	2.100	5.9	20.4
6 20	16 20.72	-20 0.9	1.887	2.854	7.7	17.5	6 20	16 18.18	-28 27.2	1.139	2.115	10.5	20.7
6 30	16 14.91	-19 47.0	1.949	2.855	11.2	17.7	6 30	16 12.69	-27 39.9	1.203	2.131	14.9	21.0
7 10	16 11.26	-19 39.2	2.032	2.857	14.2	17.9	7 10	16 10.66	-26 57.9	1.285	2.147	18.7	21.3
25761	2000 <i>BV</i> ₄₅		5 31.9 286°01	1°8/31.3	18		344467	2002 <i>OK</i> ₇		5 31.9 239°92	0°0/31.7	18	
5 1	16 58.64	-17 49.7	1.894	2.782	11.9	19.2	5 1	16 59.56	-23 39.3	2.391	3.265	10.3	21.1
5 11	16 52.94	-17 35.4	1.820	2.773	8.5	19.0	5 11	16 53.34	-23 13.2	2.303	3.251	7.3	20.9
5 21	16 45.34	-17 20.8	1.769	2.765	4.7	18.8	5 21	16 45.48	-22 41.6	2.241	3.236	4.0	20.7
5 31	16 36.60	-17 7.3	1.745	2.756	1.8	18.5	5 31	16 36.65	-22 5.5	2.207	3.221	0.3	20.3
6 10	16 27.72	-16 56.8	1.747	2.748	4.5	18.7	6 10	16 27.70	-21 26.8	2.202	3.205	3.4	20.6
6 20	16 19.67	-16 51.0	1.776	2.739	8.4	18.9	6 20	16 19.45	-20 48.2	2.225	3.189	6.9	20.8
6 30	16 13.30	-16 51.5	1.829	2.731	12.1	19.1	6 30	16 12.63	-20 12.7	2.274	3.172	10.2	20.9
7 10	16 9.20	-16 59.4	1.903	2.723	15.2	19.3	7 10	16 7.76	-19 42.9	2.345	3.155	13.0	21.1
380632	2004 <i>VH</i> ₂₂		5 31.9 196°08	1°3/1.3	18		115918	2003 <i>WG</i> ₉		5 31.9 69°78	0°8/1.3	18	
5 1	17 1.69	-25 53.2	2.364	3.233	10.6	21.4	5 1	17 0.29	-26 56.4	1.818	2.698	12.7	19.1
5 11	16 54.85	-26 3.5	2.287	3.230	7.6	21.2	5 11	16 54.03	-26 11.9	1.756	2.706	9.1	18.9
5 21	16 46.27	-26 8.5	2.235	3.227	4.3	21.0	5 21	16 45.85	-25 17.8	1.719	2.713	5.0	18.7
5 31	16 36.67	-26 7.5	2.211	3.223	1.4	20.8	5 31	16 36.67	-24 15.8	1.708	2.721	1.0	18.4
6 10	16 26.96	-26 0.9	2.216	3.218	3.4	20.9	6 10	16 27.62	-23 9.8	1.724	2.729	3.9	18.6
6 20	16 18.01	-25 50.3	2.249	3.213	6.8	21.1	6 20	16 19.71	-22 4.6	1.768	2.737	8.0	18.9
6 30	16 10.60	-25 38.1	2.308	3.208	10.0	21.3	6 30	16 13.73	-21 5.0	1.836	2.744	11.7	19.1
7 10	16 5.26	-25 27.1	2.390	3.202	12.7	21.5	7 10	16 10.16	-20 14.5	1.925	2.752	14.7	19.3
488235	2016 <i>AH</i> ₇₇		5 31.9 301°78	5°3/28.1	18		167512	2003 <i>YN</i> ₁₂₂		5 31.9 264°34	1°9/1.6	18	
5 1	16 50.30	+ 5 2.2	4.248	5.067	7.2	20.8	5 1	17 0.39	-28 14.4	2.020	2.893	11.9	20.3
5 11	16 46.23	+ 5 26.9	4.184	5.062	6.2	20.7	5 11	16 54.26	-28 10.9	1.936	2.881	8.7	20.0
5 21	16 41.45	+ 5 42.8	4.146	5.058	5.5	20.7	5 21	16 46.09	-27 58.9	1.877	2.868	5.1	19.8
5 31	16 36.29	+ 5 48.5	4.134	5.053	5.4	20.6	5 31	16 36.71	-27 37.7	1.845	2.855	2.1	19.5
6 10	16 31.10	+ 5 42.9	4.148	5.049	5.9	20.7	6 10	16 27.15	-27 8.7	1.839	2.842	4.0	19.7
6 20	16 26.25	+ 5 26.2	4.187	5.044	6.8	20.7	6 20	16 18.45	-26 34.4	1.861	2.829	7.8	19.9
6 30	16 22.05	+ 4 58.7	4.251	5.040	7.9	20.8	6 30	16 11.52	-25 58.8	1.908	2.815	11.3	20.0
7 10	16 18.77	+ 4 21.8	4.335	5.035	9.1	20.9	7 10	16 6.96	-25 25.9	1.976	2.802	14.5	20.2
435694	2008 <i>TN</i> ₁₂₈		5 31.9 257°60	0°2/31.9	18		111797	2002 <i>CK</i> ₂₄₂		5 31.9 163°44	1°1/1.3	17	
5 1	17 0.83	-22 50.7	1.953	2.834	11.9	21.5	5 1	17 1.11	-25 37.3	1.881	2.760	12.4	20.2
5 11	16 54.58	-22 52.3	1.870	2.820	8.5	21.3	5 11	16 54.71	-25 33.9	1.813	2.762	8.9	20.0
5 21	16 46.27	-22 50.0	1.810	2.806	4.6	21.0	5 21	16 46.29	-25 23.9	1.770	2.764	4.9	19.8
5 31	16 36.68	-22 43.7	1.778	2.792	0.5	20.7	5 31	16 36.72	-25 7.1	1.752	2.765	1.2	19.5
6 10	16 26.86	-22 34.4	1.773	2.777	3.9	20.9	6 10	16 27.11	-24 45.0	1.762	2.766	3.9	19.7
6 20	16 17.85	-22 23.9	1.795	2.762	8.1	21.1	6 20	16 18.50	-24 20.2	1.799	2.767	7.9	19.9
6 30	16 10.57	-22 14.7	1.842	2.747	11.8	21.3	6 30	16 11.77	-23 56.2	1.860	2.768	11.6	20.2
7 10	16 5.67	-22 9.4	1.910	2.731	15.1	21.5	7 10	16 7.48	-23 36.1	1.942	2.769	14.7	20.4
414089	2007 <i>TL</i> ₁₈₁		5 31.9 284°80	0°7/31.8	18		516678	2008 <i>SH</i> ₃₁₂		5 31.9 150°30	3°6/1.9	17	
5 1	17 3.02	-19 30.3	1.389	2.284	15.0	20.4	5 1	17 3.77	-31 48.2	2.280	3.135	11.4	22.0
5 11	16 56.86	-19 46.9	1.308	2.265	10.8	20.1	5 11	16 56.45	-32 26.9	2.212	3.142	8.6	21.8
5 21	16 47.82	-20 4.0	1.249	2.246	5.9	19.8	5 21	16 47.20	-32 56.6	2.170	3.149	5.6	21.6
5 31	16 36.83	-20 21.0	1.214	2.228	0.9	19.4	5 31	16 36.80	-33 15.0	2.155	3.155	3.6	21.5
6 10	16 25.32	-20 38.0	1.205	2.209	5.2	19.7	6 10	16 26.30	-33 21.5	2.168	3.161	4.7	21.6
6 20	16 14.80	-20 55.8	1.220	2.190	10.6	19.9	6 20	16 16.69	-33 17.5	2.209	3.166	7.4	21.8
6 30	16 6.63	-21 16.2	1.257	2.171	15.4	20.1	6 30	16 8.83	-33 6.2	2.276	3.171	10.3	22.0
7 10	16 1.70	-21 41.1	1.312	2.153	19.6	20.3	7 10	16 3.29	-32 51.5	2.365	3.176	12.8	22.1
413336	2003 <i>WR</i> ₁₃₇		5 31.9 225°87	0°5/31.7	17		488596	2002 <i>QB</i> ₉₈		5 31.9 261°77	1°1/1.2	17	
5 1	17 2.85	-22 10.2	1.957	2.835	12.1	21.9	5 1	17 2.75	-25 12.9	1.703	2.585	13.4	22.3
5 11	16 55.93	-21 43.1	1.873	2.823	8.6	21.7	5 11	16 56.28	-25 10.8	1.617	2.567	9.7	22.0
5 21	16 46.96	-21 10.8	1.815	2.810	4.6	21.4	5 21	16 47.34	-25 1.7	1.554	2.549	5.4	21.7
5 31	16 36.75	-20 34.3	1.783	2.797	0.6	21.1	5 31	16 36.83	-24 45.0	1.517	2.531	1.2	21.4
6 10	16 26.38	-19 56.0	1.780	2.783	4.1	21.3	6 10	16 25.98	-24 22.0	1.508	2.512	4.4	21.6
6 20	16 16.89	-19 19.3	1.805	2.768	8.3	21.6	6 20	16 16.07	-23 55.4	1.524	2.492	9.0	21.8
6 30	16 9.20	-18 47.5	1.854	2.752	12.1	21.8	6 30	16 8.21	-23 29.4	1.564	2.473	13.3	22.0
7 10	16 3.91	-18 23.5	1.925	2.736	15.3	22.0	7 10	16 3.16	-23 7.8	1.623	2.453	16.9	22.2
175152	Marthafarkas		5 31.9 303°77	3°5/1.9	18		278994	2008 <i>UJ</i> ₂₁₈		5			

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
205125	1999 <i>VD</i> ₁₀₂		5 31.9 238°66	0°1/31.9 18			317665	2003 <i>GF</i> ₁₆		5 31.9 345°55	1°2/31.7 18		
5 1	16 59.95	-23 12.6	2.002	2.883	11.7	20.8	5 1	17 0.12	-18 31.5	1.448	2.345	14.3	19.7
5 11	16 53.83	-22 59.4	1.925	2.876	8.3	20.6	5 11	16 54.47	-18 43.2	1.383	2.341	10.2	19.4
5 21	16 45.82	-22 41.3	1.873	2.869	4.5	20.3	5 21	16 46.37	-18 55.8	1.339	2.337	5.6	19.1
5 31	16 36.69	-22 19.0	1.848	2.862	0.4	20.0	5 31	16 36.77	-19 9.6	1.320	2.333	1.3	18.8
6 10	16 27.46	-21 54.2	1.850	2.854	3.8	20.3	6 10	16 26.98	-19 24.8	1.327	2.330	4.9	19.1
6 20	16 19.08	-21 29.3	1.880	2.847	7.8	20.5	6 20	16 18.29	-19 42.5	1.357	2.328	9.7	19.3
6 30	16 12.40	-21 7.2	1.934	2.839	11.4	20.7	6 30	16 11.79	-20 3.8	1.411	2.326	14.0	19.6
7 10	16 7.98	-20 50.6	2.010	2.831	14.4	20.9	7 10	16 8.17	-20 29.7	1.483	2.325	17.7	19.8
13657	Badinter		5 31.9 326°00	2°1/ 1.3 18			106909	2000 <i>YA</i> ₄₉		5 31.9 182°94	0°1/31.9 18		
5 1	16 58.82	-26 9.8	1.217	2.119	16.1	16.9	5 1	16 57.48	-23 11.1	2.876	3.748	8.8	20.7
5 11	16 54.19	-26 22.3	1.141	2.100	11.7	16.6	5 11	16 51.61	-23 1.6	2.802	3.748	6.2	20.5
5 21	16 46.50	-26 26.5	1.086	2.082	6.8	16.3	5 21	16 44.46	-22 48.6	2.753	3.748	3.4	20.3
5 31	16 36.77	-26 20.8	1.053	2.065	2.2	15.9	5 31	16 36.61	-22 32.7	2.734	3.747	0.3	20.0
6 10	16 26.58	-26 5.9	1.043	2.048	5.5	16.1	6 10	16 28.72	-22 14.9	2.744	3.747	2.8	20.3
6 20	16 17.59	-25 44.9	1.056	2.033	10.9	16.3	6 20	16 21.44	-21 56.8	2.782	3.745	5.7	20.4
6 30	16 11.24	-25 22.8	1.089	2.019	16.0	16.6	6 30	16 15.35	-21 40.2	2.847	3.744	8.4	20.6
7 10	16 8.42	-25 4.8	1.140	2.005	20.3	16.8	7 10	16 10.84	-21 26.8	2.936	3.742	10.7	20.8
467619	2008 <i>CH</i> ₂₁₁		5 31.9 29°04	1°8/31.6 17			438658	2008 <i>DK</i> ₆₆		5 31.9 330°89	5°5/29.1 17		
5 1	17 0.95	-17 29.6	1.230	2.132	15.9	20.5	5 1	16 55.61	- 7 30.8	2.234	3.109	10.9	20.7
5 11	16 55.17	-17 40.7	1.179	2.140	11.3	20.2	5 11	16 50.47	- 6 28.3	2.171	3.107	8.3	20.5
5 21	16 46.73	-17 53.9	1.150	2.148	6.2	19.9	5 21	16 43.91	- 5 31.9	2.132	3.105	6.2	20.4
5 31	16 36.77	-18 9.6	1.144	2.156	1.8	19.7	5 31	16 36.56	- 4 45.3	2.121	3.104	5.5	20.3
6 10	16 26.82	-18 28.3	1.162	2.166	5.5	20.0	6 10	16 29.21	- 4 11.7	2.136	3.102	6.9	20.4
6 20	16 18.26	-18 50.6	1.204	2.176	10.5	20.3	6 20	16 22.56	- 3 52.8	2.177	3.101	9.3	20.6
6 30	16 12.24	-19 17.4	1.267	2.186	15.0	20.5	6 30	16 17.25	- 3 49.1	2.241	3.100	11.9	20.7
7 10	16 9.35	-19 49.2	1.348	2.198	18.7	20.8	7 10	16 13.71	- 3 59.5	2.326	3.098	14.1	20.9
136462	2005 <i>EO</i> ₂₂₇		5 31.9 34°28	6°4/30.5 17			396296	2014 <i>DY</i> ₂₀		5 31.9 95°42	1°9/ 1.6 17		
5 1	17 0.65	- 8 28.0	1.379	2.269	15.3	19.7	5 1	17 0.38	-28 11.3	2.163	3.033	11.4	21.4
5 11	16 54.69	- 7 57.8	1.324	2.271	11.6	19.5	5 11	16 53.95	-28 14.0	2.104	3.046	8.2	21.2
5 21	16 46.39	- 7 38.1	1.290	2.274	8.0	19.3	5 21	16 45.79	-28 9.0	2.069	3.059	4.8	21.0
5 31	16 36.75	- 7 32.6	1.280	2.277	6.4	19.2	5 31	16 36.72	-27 56.0	2.062	3.072	2.0	20.8
6 10	16 27.08	- 7 43.6	1.295	2.280	8.3	19.3	6 10	16 27.70	-27 36.1	2.083	3.085	3.7	21.0
6 20	16 18.60	- 8 11.3	1.333	2.283	11.9	19.5	6 20	16 19.63	-27 11.7	2.131	3.098	7.0	21.2
6 30	16 12.33	- 8 54.3	1.393	2.286	15.6	19.8	6 30	16 13.27	-26 45.9	2.205	3.110	10.1	21.4
7 10	16 8.85	- 9 49.6	1.471	2.290	18.9	20.0	7 10	16 9.06	-26 22.1	2.300	3.122	12.8	21.6
272765	2005 <i>YJ</i> ₁₇₂		5 31.9 128°09	1°6/ 1.2 17			238277	2003 <i>WP</i> ₆₄		5 31.9 177°82	1°8/ 1.5 17		
5 1	17 4.87	-24 29.1	2.008	2.880	12.1	20.4	5 1	17 0.79	-27 2.0	1.988	2.864	12.0	20.7
5 11	16 57.30	-25 13.9	1.946	2.890	8.6	20.2	5 11	16 54.48	-27 11.8	1.918	2.864	8.7	20.5
5 21	16 47.67	-25 54.9	1.908	2.901	4.9	20.0	5 21	16 46.19	-27 14.8	1.873	2.864	5.0	20.3
5 31	16 36.86	-26 29.7	1.899	2.910	1.6	19.8	5 31	16 36.76	-27 9.9	1.853	2.864	1.9	20.1
6 10	16 25.94	-26 57.3	1.918	2.920	4.0	20.0	6 10	16 27.24	-26 58.1	1.862	2.865	3.9	20.2
6 20	16 15.99	-27 18.3	1.965	2.929	7.7	20.2	6 20	16 18.66	-26 41.4	1.897	2.864	7.6	20.4
6 30	16 7.92	-27 34.6	2.038	2.938	11.1	20.5	6 30	16 11.87	-26 22.9	1.957	2.864	11.1	20.6
7 10	16 2.29	-27 48.8	2.132	2.946	14.0	20.7	7 10	16 7.45	-26 6.0	2.038	2.864	14.1	20.8
254387	2004 <i>TR</i> ₂₁₀		5 31.9 313°37	2°1/ 1.6 18			488767	2004 <i>TM</i> ₁₃₉		5 31.9 199°92	1°7/ 1.6 18		
5 1	16 58.18	-28 1.9	2.074	2.950	11.5	20.3	5 1	17 1.73	-28 16.4	2.440	3.303	10.5	22.1
5 11	16 52.70	-28 13.4	1.990	2.936	8.4	20.1	5 11	16 54.86	-28 9.6	2.360	3.299	7.6	21.9
5 21	16 45.28	-28 17.8	1.931	2.921	5.0	19.9	5 21	16 46.30	-27 55.2	2.305	3.294	4.5	21.7
5 31	16 36.67	-28 14.2	1.898	2.908	2.2	19.7	5 31	16 36.77	-27 32.8	2.278	3.289	1.8	21.5
6 10	16 27.84	-28 2.9	1.892	2.894	4.0	19.8	6 10	16 27.17	-27 3.6	2.281	3.283	3.5	21.6
6 20	16 19.79	-27 45.8	1.912	2.880	7.5	19.9	6 20	16 18.36	-26 30.0	2.312	3.276	6.7	21.8
6 30	16 13.39	-27 26.0	1.958	2.867	11.0	20.1	6 30	16 11.08	-25 55.2	2.369	3.268	9.8	22.0
7 10	16 9.26	-27 6.9	2.024	2.855	14.0	20.3	7 10	16 5.85	-25 22.6	2.449	3.260	12.5	22.2
367610	2009 <i>TT</i> ₃₇		5 31.9 226°83	3°8/30.1 18			415054	2012 <i>AE</i> ₂₄		5 31.9 232°59	3°1/ 1.9 17		
5 1	16 59.61	-14 42.1	1.912	2.796	12.0	20.3	5 1	17 4.65	-30 31.0	1.623	2.496	14.3	21.6
5 11	16 53.53	-13 35.4	1.840	2.789	8.7	20.0	5 11	16 57.70	-30 29.5	1.545	2.488	10.6	21.4
5 21	16 45.63	-12 28.4	1.793	2.783	5.4	19.8	5 21	16 48.12	-30 15.4	1.491	2.479	6.5	21.1
5 31	16 36.70	-11 25.4	1.773	2.776	3.8	19.7	5 31	16 36.93	-29 47.0	1.461	2.469	3.3	20.9
6 10	16 27.72	-10 30.6	1.780	2.768	6.0	19.8	6 10	16 25.55	-29 5.8	1.458	2.459	5.1	21.0
6 20	16 19.62	- 9 47.4	1.814	2.761	9.5	20.0	6 20	16 15.37	-28 16.0	1.481	2.449	9.3	21.2
6 30	16 13.20	- 9 18.3	1.872	2.753	12.8	20.2	6 30	16 7.55	-27 23.5	1.527	2.439	13.4	21.4
7 10	16 8.98	- 9 3.7	1.949	2.745	15.7	20.4	7 10	16 2.77	-26 34.6	1.594	2.427	17.0	21.6
36582	2000 <i>QM</i> ₁₂₆		5 31.9 117°64	4°4/30.2 18			131302	2001 <i>FO</i> ₁₄₃		5 31.9 68°83	5°8/29.4 18		
5 1	17 0.19	-11 21.1	1.960	2.838	12.0	18.9	5 1	16 58.00	- 9 4.4	1.798	2.681	12.7	19.5
5 11	16 53.72	-10 33.0	1.909	2.853	8.8	18.7	5 11	16 52.31	- 7 55.7	1.749	2.692	9.6	19.3
5 21	16 45.62	- 9 49.7	1.883	2.868	5.8	18.5	5 21	16 44.92	- 6 53.5	1.723	2.702	6.8	19.2
5 31	16 36.69	- 9 14.2	1.884	2.882	4.4	18.5	5 31	16 36.66	- 6 2.7	1.724	2.713	5.9	19.1
6 10	16 27.88	- 8 49.3	1.912	2.895	6.2	18.6	6 10	16 28.49	- 5 26.9	1.750	2.724	7.5	19.2
6 20	16 20.04	- 8 36.6	1.967	2.908	9.2	18.8	6 20	16 21.31	- 5 7.9	1.802	2.735	10.4	19.4
6 30	16 13.85	- 8 36.6	2.045	2.921	12.1	19.0	6 30	16 15.82	- 5 6.0	1.876	2.746	13.3	19.6
7 10	16 9.77	- 8 48.5	2.144	2.933	14.7	19.2	7 10	16 12.49	- 5 19.5	1.969	2.757	15.9	19.8
125214	2001 <i>UY</i> ₁₅₀		5 31.9 100°65	1°9/ 1.2 18			91063	1998 <i>FX</i> ₆₂					

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
129145	2005 <i>CE</i>		5 31.9 71°94	4.2/28.6	18		141007	2001 <i>WD</i> ₃₃		5 31.9 229°83	0.7/31.6	18	
5 1	16 49.76	- 1 5.9	4.338	5.183	6.6	19.9	5 1	16 58.39	-20 12.0	2.362	3.240	10.2	21.0
5 11	16 45.86	- 0 32.8	4.279	5.187	5.4	19.8	5 11	16 52.51	-20 3.8	2.284	3.234	7.2	20.8
5 21	16 41.30	- 0 6.0	4.247	5.191	4.4	19.7	5 21	16 45.07	-19 53.9	2.232	3.227	3.9	20.5
5 31	16 36.37	+ 0 13.2	4.241	5.195	4.2	19.7	5 31	16 36.72	-19 42.8	2.207	3.220	0.8	20.3
6 10	16 31.45	+ 0 23.6	4.264	5.198	4.8	19.7	6 10	16 28.26	-19 31.9	2.211	3.213	3.5	20.5
6 20	16 26.86	+ 0 24.8	4.313	5.202	5.9	19.8	6 20	16 20.48	-19 22.6	2.243	3.206	6.9	20.7
6 30	16 22.91	+ 0 17.0	4.387	5.206	7.2	19.9	6 30	16 14.10	-19 16.6	2.300	3.198	10.1	20.9
7 10	16 19.84	+ 0 0.8	4.482	5.210	8.4	20.0	7 10	16 9.60	-19 15.4	2.379	3.191	12.8	21.1
258944	2002 <i>RV</i> ₁₆₉		5 31.9 231°78	3.4/ 2.0	17		367147	2006 <i>UX</i> ₆₁		5 31.9 270°62	0.8/31.6	18	
5 1	17 3.99	-31 23.2	1.787	2.654	13.5	21.0	5 1	17 2.29	-21 54.5	1.703	2.588	13.2	21.6
5 11	16 57.08	-31 26.7	1.707	2.646	10.1	20.7	5 11	16 55.96	-21 24.2	1.610	2.563	9.5	21.3
5 21	16 47.73	-31 17.9	1.651	2.637	6.4	20.5	5 21	16 47.22	-20 47.8	1.542	2.538	5.1	21.0
5 31	16 36.91	-30 55.3	1.621	2.627	3.5	20.3	5 31	16 36.91	-20 6.5	1.499	2.513	0.8	20.6
6 10	16 25.91	-30 19.8	1.617	2.617	5.0	20.4	6 10	16 26.22	-19 23.2	1.483	2.486	4.7	20.8
6 20	16 15.99	-29 35.0	1.640	2.606	8.7	20.5	6 20	16 16.40	-18 41.8	1.494	2.460	9.5	21.1
6 30	16 8.24	-28 46.2	1.687	2.596	12.5	20.8	6 30	16 8.54	-18 6.7	1.528	2.433	13.8	21.2
7 10	16 3.32	-27 59.2	1.755	2.584	15.9	20.9	7 10	16 3.40	-17 41.1	1.582	2.405	17.6	21.4
473172	2015 <i>KY</i> ₃₉		5 31.9 311°86	0.7/31.7	16		265328	2004 <i>OG</i> ₁		5 31.9 325°76	4.7/30.5	17	
5 1	16 58.40	-21 5.5	1.920	2.806	11.8	21.7	5 1	16 56.85	-13 54.8	1.313	2.217	15.0	19.4
5 11	16 52.78	-20 49.3	1.848	2.802	8.4	21.5	5 11	16 52.38	-13 10.5	1.239	2.198	11.0	19.1
5 21	16 45.28	-20 30.1	1.801	2.797	4.5	21.2	5 21	16 45.38	-12 28.7	1.186	2.180	6.9	18.8
5 31	16 36.71	-20 8.9	1.779	2.793	0.7	20.9	5 31	16 36.76	-11 53.8	1.157	2.162	4.7	18.6
6 10	16 28.05	-19 47.5	1.785	2.788	4.0	21.2	6 10	16 27.84	-11 30.3	1.151	2.146	7.4	18.7
6 20	16 20.26	-19 28.4	1.817	2.784	8.0	21.4	6 20	16 19.93	-11 21.2	1.168	2.130	11.9	18.9
6 30	16 14.16	-19 13.9	1.874	2.780	11.6	21.6	6 30	16 14.21	-11 28.4	1.205	2.115	16.3	19.1
7 10	16 10.31	-19 6.0	1.951	2.776	14.7	21.8	7 10	16 11.44	-11 51.2	1.260	2.101	20.2	19.3
415275	2013 <i>EF</i> ₅₈		5 31.9 346°32	5°5/ 1.9	16		118928	2000 <i>WB</i> ₃		5 31.9 38°15	8°4/ 5.4	18	
5 1	17 0.29	-30 51.8	1.020	1.923	18.4	20.1	5 1	17 9.73	-44 11.5	0.893	1.763	23.4	18.3
5 11	16 55.71	-31 39.4	0.959	1.914	13.9	19.8	5 11	17 2.48	-43 1.0	0.840	1.768	18.8	18.0
5 21	16 47.49	-32 13.5	0.917	1.907	9.1	19.5	5 21	16 50.86	-41 4.1	0.803	1.774	13.6	17.8
5 31	16 36.91	-32 29.0	0.895	1.901	5.6	19.3	5 31	16 37.18	-38 18.9	0.785	1.781	9.3	17.5
6 10	16 25.94	-32 24.4	0.895	1.896	7.5	19.4	6 10	16 24.27	-34 56.9	0.791	1.788	9.0	17.6
6 20	16 16.61	-32 2.8	0.916	1.892	12.3	19.6	6 20	16 14.37	-31 19.8	0.818	1.796	13.1	17.8
6 30	16 10.55	-31 31.7	0.956	1.890	17.2	19.9	6 30	16 8.74	-27 51.6	0.867	1.804	18.1	18.1
7 10	16 8.62	-30 58.9	1.012	1.888	21.5	20.2	7 10	16 7.62	-24 49.5	0.934	1.813	22.7	18.4
65036	2002 <i>AB</i> ₁₁₉		5 31.9 29°13	0°5/31.7	18		13433	Phelps		5 31.9 302°31	1°0/31.7	18	
5 1	16 57.73	-21 2.9	2.013	2.899	11.4	18.6	5 1	17 1.13	-19 33.4	1.374	2.271	14.9	17.8
5 11	16 52.18	-20 58.1	1.950	2.903	8.1	18.4	5 11	16 55.56	-19 41.1	1.293	2.251	10.7	17.5
5 21	16 44.91	-20 51.0	1.912	2.908	4.3	18.2	5 21	16 47.19	-19 48.6	1.234	2.231	5.9	17.2
5 31	16 36.68	-20 42.2	1.900	2.913	0.5	17.9	5 31	16 36.93	-19 55.9	1.198	2.212	1.0	16.8
6 10	16 28.43	-20 33.0	1.915	2.919	3.7	18.2	6 10	16 26.19	-20 3.8	1.188	2.193	5.2	17.0
6 20	16 21.05	-20 25.2	1.957	2.924	7.5	18.4	6 20	16 16.43	-20 13.7	1.202	2.174	10.6	17.3
6 30	16 15.28	-20 20.5	2.023	2.930	10.8	18.6	6 30	16 8.97	-20 27.7	1.237	2.155	15.4	17.5
7 10	16 11.63	-20 20.5	2.111	2.936	13.7	18.8	7 10	16 4.70	-20 47.6	1.291	2.137	19.6	17.7
472720	2015 <i>FE</i> ₆₈		5 31.9 4°78	1°9/31.9	17		403213	2008 <i>TU</i> ₁₆₁		5 31.9 195°07	0°3/31.8	16	
5 1	17 4.31	-22 28.7	1.552	2.438	14.2	20.1	5 1	17 4.93	-21 50.2	1.584	2.468	14.0	22.3
5 11	16 57.53	-23 48.3	1.486	2.438	10.2	19.8	5 11	16 57.76	-21 44.9	1.514	2.466	10.0	22.0
5 21	16 48.10	-25 8.3	1.444	2.438	5.7	19.6	5 21	16 48.11	-21 35.6	1.468	2.464	5.4	21.7
5 31	16 36.96	-26 23.9	1.427	2.439	1.9	19.3	5 31	16 37.00	-21 22.4	1.447	2.461	0.5	21.4
6 10	16 25.47	-27 31.6	1.438	2.441	4.9	19.5	6 10	16 25.75	-21 7.0	1.454	2.458	4.6	21.7
6 20	16 15.03	-28 29.6	1.475	2.443	9.3	19.8	6 20	16 15.65	-20 51.9	1.486	2.454	9.4	21.9
6 30	16 6.85	-29 18.7	1.536	2.446	13.4	20.1	6 30	16 7.79	-20 40.4	1.542	2.449	13.6	22.2
7 10	16 1.71	-30 1.5	1.617	2.449	16.9	20.3	7 10	16 2.82	-20 35.1	1.618	2.444	17.2	22.4
303848	2005 <i>SS</i> ₁₈₉		5 31.9 186°94	2°0/ 1.6	18		230882	2004 <i>RQ</i> ₃₀₆		5 31.9 284°09	1°9/31.4	18	
5 1	16 59.11	-28 27.1	2.508	3.374	10.2	21.1	5 1	17 0.84	-17 21.7	1.800	2.685	12.5	20.4
5 11	16 53.01	-28 37.8	2.434	3.374	7.4	20.9	5 11	16 54.84	-17 16.4	1.707	2.660	9.0	20.1
5 21	16 45.32	-28 41.9	2.385	3.373	4.4	20.7	5 21	16 46.60	-17 11.8	1.639	2.634	5.1	19.8
5 31	16 36.72	-28 38.6	2.364	3.373	2.0	20.5	5 31	16 36.89	-17 8.9	1.596	2.608	1.9	19.5
6 10	16 28.04	-28 28.6	2.371	3.372	3.5	20.6	6 10	16 26.76	-17 8.9	1.581	2.582	4.9	19.7
6 20	16 20.09	-28 13.4	2.406	3.371	6.4	20.8	6 20	16 17.34	-17 13.4	1.592	2.555	9.2	19.9
6 30	16 13.58	-27 55.6	2.468	3.370	9.3	21.0	6 30	16 9.67	-17 23.9	1.627	2.529	13.3	20.0
7 10	16 8.98	-27 37.9	2.552	3.368	11.8	21.2	7 10	16 4.50	-17 41.5	1.681	2.502	16.8	20.2
368949	2006 <i>YN</i>		5 31.9 201°12	11°8/31.3	18		161560	2004 <i>YW</i> ₃₄		5 31.9 258°50	0°0/31.8	17	
5 1	17 17.57	- 0 23.6	0.937	1.809	22.4	21.7	5 1	16 59.73	-22 59.0	1.913	2.796	12.0	20.9
5 11	17 7.96	+ 0 0.5	0.876	1.806	18.0	21.4	5 11	16 53.77	-22 47.2	1.839	2.791	8.6	20.6
5 21	16 54.13	- 0 2.5	0.833	1.801	13.9	21.2	5 21	16 45.86	-22 30.7	1.790	2.786	4.6	20.4
5 31	16 37.48	- 0 40.3	0.812	1.795	11.8	21.0	5 31	16 36.81	-22 10.2	1.768	2.781	0.4	20.0
6 10	16 20.29	- 1 55.0	0.812	1.786	13.8	21.1	6 10	16 27.67	-21 47.4	1.772	2.776	3.9	20.3
6 20	16 4.87	- 3 41.7	0.835	1.775	18.2	21.3	6 20	16 19.42	-21 24.8	1.804	2.771	7.9	20.6
6 30	15 53.12	- 5 51.3	0.876	1.762	23.2	21.5	6 30	16 12.93	-21 5.2	1.859	2.766	11.6	20.8
7 10	15 45.97	- 8 13.9	0.933	1.748	27.6	21.8	7 10	16 8.78	-20 51.2	1.936	2.761	14.8	21.0
475275	2005 <i>WJ</i> ₁₂₇		5 31.9 308°76	1°2/31.3	16		215154	1999 <i>XR</i> ₁₃₉		5 31.9			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
198627	2005 <i>AE</i> ₄₇		5 31.9 144°55	3°4/30.8	17		436589	2011 <i>JA</i> ₂₁		5 31.9 85°10	7°1/29.3	17	
5 1	16 59.71	-11 41.7	2.342	3.214	10.5	20.8	5 1	16 58.76	-5 14.2	1.789	2.664	13.2	21.2
5 11	16 53.29	-11 26.8	2.282	3.224	7.7	20.6	5 11	16 52.88	-4 12.9	1.742	2.675	10.3	21.0
5 21	16 45.42	-11 16.1	2.247	3.233	4.8	20.4	5 21	16 45.29	-3 22.2	1.718	2.686	7.9	20.9
5 31	16 36.78	-11 11.3	2.240	3.242	3.4	20.3	5 31	16 36.82	-2 46.4	1.719	2.698	7.1	20.9
6 10	16 28.14	-11 13.4	2.262	3.250	4.9	20.4	6 10	16 28.43	-2 28.5	1.746	2.709	8.5	21.0
6 20	16 20.27	-11 23.2	2.311	3.258	7.7	20.6	6 20	16 21.03	-2 29.4	1.798	2.720	11.1	21.1
6 30	16 13.80	-11 40.8	2.386	3.265	10.5	20.8	6 30	16 15.34	-2 48.2	1.871	2.731	13.8	21.3
7 10	16 9.17	-12 5.8	2.482	3.272	12.9	21.0	7 10	16 11.81	-3 22.2	1.964	2.742	16.2	21.5
476054	2007 <i>RY</i> ₃₁₄		5 31.9 297°26	5°7/ 2.5	17		280548	2004 <i>RC</i> ₁₈₇		5 31.9 184°98	14°2/ 4.9	18	
5 1	17 2.31	-36 1.4	1.805	2.663	13.8	20.8	5 1	17 19.46	-52 4.4	1.411	2.203	20.3	21.3
5 11	16 56.16	-36 35.4	1.719	2.645	10.9	20.6	5 11	17 10.02	-53 31.7	1.349	2.204	18.0	21.1
5 21	16 47.41	-36 55.6	1.656	2.627	7.8	20.3	5 21	16 55.52	-54 28.2	1.305	2.204	15.8	21.0
5 31	16 36.96	-36 58.3	1.618	2.610	5.8	20.2	5 31	16 37.71	-54 41.8	1.281	2.203	14.4	20.9
6 10	16 26.13	-36 42.6	1.605	2.592	6.6	20.2	6 10	16 19.53	-54 7.8	1.278	2.202	14.4	20.9
6 20	16 16.29	-36 10.5	1.617	2.575	9.5	20.3	6 20	16 3.93	-52 51.3	1.296	2.200	15.8	20.9
6 30	16 8.64	-35 27.4	1.653	2.558	12.9	20.5	6 30	15 53.01	-51 5.4	1.334	2.197	18.1	21.1
7 10	16 3.96	-34 39.9	1.709	2.541	16.1	20.7	7 10	15 47.53	-49 5.7	1.389	2.193	20.5	21.2
88890	2001 <i>SJ</i> ₂₉₂		5 31.9 124°10	1°3/ 1.4	17		249169	2008 <i>CZ</i> ₅		5 31.9 69°30	8°4/29.3	18	
5 1	17 1.78	-26 22.8	1.651	2.534	13.6	19.6	5 1	16 57.25	+ 2 53.9	2.148	2.993	12.5	19.8
5 11	16 55.43	-26 11.0	1.585	2.536	9.8	19.4	5 11	16 51.60	+ 3 34.1	2.105	3.006	10.4	19.7
5 21	16 46.81	-25 50.7	1.543	2.537	5.5	19.1	5 21	16 44.54	+ 3 58.8	2.084	3.019	8.9	19.6
5 31	16 36.90	-25 22.0	1.527	2.539	1.4	18.8	5 31	16 36.76	+ 4 4.9	2.089	3.033	8.4	19.6
6 10	16 26.98	-24 47.1	1.536	2.541	4.3	19.0	6 10	16 29.06	+ 3 50.9	2.118	3.046	9.3	19.7
6 20	16 18.21	-24 9.7	1.572	2.543	8.7	19.3	6 20	16 22.17	+ 3 17.5	2.171	3.060	11.0	19.8
6 30	16 11.58	-23 34.2	1.632	2.544	12.6	19.5	6 30	16 16.71	+ 2 27.2	2.247	3.073	12.9	20.0
7 10	16 7.67	-23 4.4	1.711	2.546	16.0	19.8	7 10	16 13.07	+ 1 23.2	2.342	3.087	14.8	20.1
70051	1999 <i>GD</i> ₄₆		5 31.9 326°84	0°2/31.9	18		420511	2012 <i>FG</i> ₄₀		5 31.9 48°41	2°3/31.6	17	
5 1	17 1.26	-18 32.3	1.101	2.009	16.9	18.0	5 1	17 2.24	-16 12.5	1.382	2.277	15.0	20.6
5 11	16 56.22	-19 24.8	1.027	1.990	12.2	17.7	5 11	16 55.95	-16 21.9	1.327	2.284	10.7	20.4
5 21	16 47.81	-20 23.7	0.973	1.972	6.7	17.3	5 21	16 47.18	-16 34.6	1.295	2.291	6.0	20.1
5 31	16 37.02	-21 26.3	0.942	1.956	0.6	16.8	5 31	16 36.99	-16 51.0	1.287	2.298	2.3	19.9
6 10	16 25.51	-22 29.5	0.934	1.940	5.8	17.1	6 10	16 26.78	-17 11.5	1.304	2.306	5.4	20.1
6 20	16 15.12	-23 31.0	0.948	1.925	11.8	17.4	6 20	16 17.83	-17 36.6	1.346	2.314	10.1	20.4
6 30	16 7.51	-24 30.3	0.982	1.912	17.3	17.7	6 30	16 11.20	-18 6.7	1.410	2.322	14.3	20.7
7 10	16 3.76	-25 28.4	1.033	1.899	21.9	17.9	7 10	16 7.51	-18 42.0	1.494	2.330	17.8	20.9
96088	1074 <i>T</i> ₋₂		5 31.9 195°89	4°6/29.8	18		66007	1998 <i>PO</i>		5 31.9 214°73	0°2/ 1.0	18	
5 1	16 58.87	-9 54.2	2.243	3.117	10.9	20.4	5 1	17 0.04	-24 1.7	2.043	2.923	11.6	17.9
5 11	16 52.80	-9 3.0	2.175	3.115	8.2	20.2	5 11	16 53.90	-23 42.6	1.970	2.919	8.2	17.7
5 21	16 45.21	-8 16.1	2.132	3.112	5.6	20.1	5 21	16 45.92	-23 17.7	1.921	2.916	4.5	17.4
5 31	16 36.77	-7 36.9	2.116	3.108	4.6	20.0	5 31	16 36.90	-22 47.9	1.899	2.912	0.5	17.1
6 10	16 28.30	-7 8.0	2.128	3.105	6.2	20.1	6 10	16 27.81	-22 15.3	1.904	2.908	3.7	17.4
6 20	16 20.56	-6 51.3	2.167	3.100	8.9	20.2	6 20	16 19.60	-21 42.5	1.937	2.904	7.6	17.6
6 30	16 14.23	-6 47.6	2.230	3.096	11.6	20.4	6 30	16 13.08	-21 12.8	1.995	2.900	11.1	17.8
7 10	16 9.78	-6 56.3	2.314	3.090	14.1	20.6	7 10	16 8.77	-20 48.9	2.075	2.896	14.1	18.0
352595	2008 <i>EP</i> ₄₂		5 31.9 48°96	3°6/ 1.9	17		496493	2014 <i>TB</i> ₆₃		5 31.9 228°99	0°4/ 1.1	17	
5 1	17 0.73	-31 18.3	2.031	2.898	12.2	20.9	5 1	17 3.60	-24 39.5	1.636	2.519	13.7	21.3
5 11	16 54.45	-31 50.9	1.973	2.910	9.1	20.7	5 11	16 56.85	-24 14.6	1.559	2.510	9.9	21.0
5 21	16 46.20	-32 14.1	1.939	2.922	5.9	20.5	5 21	16 47.68	-23 41.4	1.506	2.501	5.4	20.7
5 31	16 36.86	-32 25.8	1.931	2.934	3.6	20.4	5 31	16 37.05	-23 0.9	1.478	2.492	0.6	20.3
6 10	16 27.49	-32 26.0	1.951	2.947	4.7	20.5	6 10	16 26.27	-22 15.7	1.478	2.482	4.4	20.6
6 20	16 19.12	-32 16.6	1.997	2.959	7.7	20.7	6 20	16 16.59	-21 30.1	1.503	2.472	9.2	20.9
6 30	16 12.60	-32 1.1	2.067	2.972	10.7	20.9	6 30	16 9.08	-20 48.9	1.553	2.461	13.4	21.1
7 10	16 8.46	-31 43.3	2.159	2.985	13.4	21.1	7 10	16 4.39	-20 15.9	1.622	2.449	17.0	21.3
382980	2005 <i>BD</i> ₄₆		5 31.9 5°45	1°4/ 1.4	17		260138	2004 <i>QV</i> ₉		5 31.9 298°87	8°5/28.6	18	
5 1	17 0.05	-26 12.0	1.779	2.662	12.8	21.0	5 1	16 56.59	+ 2 29.6	2.173	3.019	12.3	20.3
5 11	16 54.13	-26 8.8	1.712	2.662	9.2	20.8	5 11	16 51.36	+ 3 11.6	2.098	3.001	10.4	20.2
5 21	16 46.11	-25 58.2	1.668	2.662	5.2	20.6	5 21	16 44.55	+ 3 39.6	2.045	2.982	8.9	20.0
5 31	16 36.89	-25 40.2	1.650	2.663	1.5	20.3	5 31	16 36.79	+ 3 49.4	2.017	2.963	8.5	20.0
6 10	16 27.61	-25 16.2	1.659	2.663	4.1	20.5	6 10	16 28.86	+ 3 38.7	2.014	2.945	9.6	20.0
6 20	16 19.35	-24 49.2	1.694	2.664	8.2	20.7	6 20	16 21.54	+ 3 7.1	2.035	2.926	11.5	20.1
6 30	16 13.04	-24 22.7	1.752	2.665	11.9	21.0	6 30	16 15.56	+ 2 16.2	2.078	2.908	13.7	20.2
7 10	16 9.24	-24 0.3	1.832	2.666	15.1	21.2	7 10	16 11.45	+ 1 9.2	2.141	2.890	15.9	20.3
136033	2002 <i>VM</i> ₁₁₃		5 31.9 185°67	0°0/31.8	18		467056	2016 <i>DU</i> ₆		5 31.9 49°80	3°2/31.3	17	
5 1	16 59.43	-22 23.2	2.412	3.287	10.2	20.7	5 1	17 2.45	-14 47.5	1.309	2.206	15.5	20.6
5 11	16 53.23	-22 20.0	2.339	3.287	7.2	20.5	5 11	16 56.20	-14 43.8	1.253	2.210	11.2	20.3
5 21	16 45.48	-22 13.6	2.292	3.287	3.9	20.2	5 21	16 47.36	-14 44.6	1.219	2.214	6.5	20.1
5 31	16 36.84	-22 4.3	2.272	3.286	0.3	19.9	5 31	16 37.03	-14 51.5	1.209	2.219	3.3	19.9
6 10	16 28.13	-21 53.2	2.281	3.285	3.2	20.2	6 10	16 26.64	-15 5.6	1.224	2.224	6.2	20.1
6 20	16 20.15	-21 41.8	2.319	3.283	6.6	20.4	6 20	16 17.56	-15 27.6	1.263	2.228	10.8	20.3
6 30	16 13.59	-21 32.0	2.382	3.281	9.7	20.6	6 30	16 10.90	-15 57.7	1.323	2.234	15.1	20.6
7 10	16 8.92	-21 25.8	2.467	3.279	12.4	20.8	7 10	16 7.28	-16 35.5	1.402	2.239	18.8	20.8
156406	2002 <i>AW</i> ₄₀		5 31.9 156°23	2°0/31.2	17		146115	2000 <i>QC</i> ₂₁₅		5			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
56707	2000 LY ₃₆		5 31.9 305°78	11°4/27.1	18		367114	2006 SC ₃₃		5 31.9 267°41	0°9/31.6	17	
5 1	16 57.53	+ 1 58.6	1.518	2.384	15.6	18.2	5 1	17 2.04	-21 8.4	1.643	2.531	13.4	21.5
5 11	16 52.55	+ 3 26.6	1.452	2.366	13.3	18.1	5 11	16 55.85	-20 45.5	1.558	2.512	9.6	21.2
5 21	16 45.39	+ 4 38.2	1.406	2.348	11.7	17.9	5 21	16 47.24	-20 18.1	1.497	2.493	5.2	20.9
5 31	16 36.88	+ 5 25.5	1.383	2.331	11.5	17.8	5 31	16 37.09	-19 47.3	1.460	2.474	1.0	20.5
6 10	16 28.15	+ 5 43.0	1.382	2.314	13.0	17.9	6 10	16 26.62	-19 15.7	1.451	2.454	4.7	20.8
6 20	16 20.30	+ 5 29.1	1.402	2.297	15.4	18.0	6 20	16 17.07	-18 46.7	1.467	2.434	9.5	21.0
6 30	16 14.33	+ 4 45.8	1.442	2.280	18.2	18.1	6 30	16 9.54	-18 23.8	1.506	2.413	13.8	21.2
7 10	16 10.88	+ 3 37.9	1.497	2.264	20.8	18.3	7 10	16 4.76	-18 9.8	1.566	2.393	17.6	21.4
341923	2008 KZ ₃₇		5 31.9 296°78	4°0/28.2	17		148379	2000 SQ ₂₉₄		5 31.9 243°73	3°3/ 2.4	18	
5 1	16 50.54	- 3 35.8	4.209	5.062	6.7	20.4	5 1	17 0.34	-33 47.3	2.572	3.423	10.4	20.8
5 11	16 46.49	- 2 43.0	4.141	5.058	5.3	20.3	5 11	16 54.02	-33 48.8	2.485	3.411	7.9	20.6
5 21	16 41.72	- 1 55.1	4.100	5.053	4.3	20.3	5 21	16 46.00	-33 39.9	2.421	3.398	5.3	20.4
5 31	16 36.58	- 1 14.1	4.088	5.049	4.1	20.2	5 31	16 36.98	-33 19.4	2.385	3.385	3.4	20.3
6 10	16 31.41	- 0 41.5	4.103	5.045	4.8	20.3	6 10	16 27.83	-32 48.2	2.378	3.372	4.2	20.3
6 20	16 26.58	- 0 18.3	4.146	5.040	6.1	20.4	6 20	16 19.42	-32 8.4	2.398	3.358	6.7	20.4
6 30	16 22.41	- 0 4.8	4.214	5.036	7.4	20.5	6 30	16 12.50	-31 23.6	2.445	3.344	9.5	20.6
7 10	16 19.16	- 0 0.6	4.304	5.032	8.7	20.6	7 10	16 7.60	-30 38.0	2.514	3.330	12.0	20.7
276507	2003 QT ₇₃		5 31.9 259°00	3°5/30.7	18		380560	2004 PQ ₁₀₉		5 31.9 239°54	3°4/ 2.3	18	
5 1	16 58.87	-14 19.6	1.848	2.734	12.2	20.4	5 1	17 3.33	-32 34.3	2.042	2.902	12.4	21.3
5 11	16 53.14	-13 42.3	1.779	2.730	8.9	20.1	5 11	16 56.48	-32 33.4	1.956	2.889	9.3	21.1
5 21	16 45.55	-13 7.0	1.735	2.726	5.4	19.9	5 21	16 47.45	-32 20.4	1.894	2.876	6.0	20.9
5 31	16 36.91	-12 36.5	1.717	2.722	3.5	19.8	5 31	16 37.11	-31 53.9	1.859	2.863	3.5	20.7
6 10	16 28.19	-12 13.6	1.726	2.718	5.6	19.9	6 10	16 26.59	-31 14.6	1.851	2.849	4.7	20.7
6 20	16 20.34	-12 0.4	1.760	2.714	9.2	20.1	6 20	16 17.00	-30 26.0	1.870	2.834	8.0	20.9
6 30	16 14.19	-11 58.2	1.818	2.710	12.6	20.3	6 30	16 9.33	-29 32.9	1.915	2.819	11.5	21.1
7 10	16 10.28	-12 7.1	1.897	2.706	15.6	20.5	7 10	16 4.19	-28 40.8	1.981	2.804	14.6	21.2
330290	2006 TV ₆		5 31.9 212°03	0°6/31.8	17		416023	2002 CO ₂₅₆		5 31.9 63°81	5°1/30.9	17	
5 1	17 2.98	-20 24.8	1.980	2.857	11.9	22.0	5 1	17 2.22	- 9 22.4	1.566	2.449	14.2	20.8
5 11	16 56.09	-20 25.1	1.902	2.851	8.5	21.8	5 11	16 55.40	- 9 7.8	1.531	2.476	10.5	20.7
5 21	16 47.18	-20 23.5	1.849	2.844	4.6	21.5	5 21	16 46.67	- 9 2.3	1.519	2.504	6.9	20.5
5 31	16 37.05	-20 20.1	1.823	2.836	0.7	21.2	5 31	16 37.03	- 9 7.9	1.532	2.531	5.1	20.5
6 10	16 26.74	-20 15.9	1.825	2.828	4.0	21.4	6 10	16 27.64	- 9 25.4	1.572	2.558	6.8	20.6
6 20	16 17.28	-20 12.4	1.855	2.819	8.1	21.7	6 20	16 19.51	- 9 54.4	1.636	2.586	10.1	20.9
6 30	16 9.57	-20 11.7	1.910	2.809	11.7	21.9	6 30	16 13.42	-10 33.6	1.724	2.613	13.3	21.1
7 10	16 4.21	-20 15.6	1.986	2.799	14.9	22.1	7 10	16 9.81	-11 20.9	1.831	2.640	16.1	21.4
439546	2014 DS ₁₃		5 31.9 23°94	6°1/30.3	18		269707	1998 BB ₂₂		5 31.9 140°64	4°9/ 3.1	17	
5 1	16 57.70	- 5 48.4	1.884	2.760	12.6	20.2	5 1	17 4.92	-37 0.6	1.979	2.825	13.3	20.7
5 11	16 52.20	- 5 24.1	1.827	2.763	9.7	20.0	5 11	16 57.51	-37 1.9	1.913	2.833	10.3	20.5
5 21	16 45.00	- 5 10.1	1.792	2.766	7.1	19.9	5 21	16 47.92	-36 47.4	1.871	2.840	7.2	20.4
5 31	16 36.86	- 5 9.2	1.784	2.770	6.1	19.8	5 31	16 37.14	-36 15.2	1.854	2.847	5.1	20.2
6 10	16 28.70	- 5 23.0	1.801	2.774	7.4	19.9	6 10	16 26.45	-35 26.9	1.865	2.854	5.7	20.3
6 20	16 21.39	- 5 51.4	1.843	2.778	10.1	20.1	6 20	16 17.00	-34 26.6	1.902	2.860	8.3	20.5
6 30	16 15.68	- 6 33.1	1.908	2.783	12.9	20.3	6 30	16 9.70	-33 20.3	1.964	2.866	11.4	20.7
7 10	16 12.06	- 7 25.8	1.993	2.787	15.5	20.5	7 10	16 5.09	-32 14.3	2.048	2.871	14.1	20.9
320451	2007 VU ₂₀₆		5 31.9 209°37	3°5/30.7	17		128850	2004 SO ₁₄		5 31.9 280°59	0°7/ 1.1	18	
5 1	17 2.06	-15 14.9	1.689	2.575	13.2	21.5	5 1	17 2.33	-22 37.2	1.742	2.625	13.0	20.0
5 11	16 55.55	-14 32.4	1.620	2.571	9.6	21.2	5 11	16 56.02	-23 5.2	1.660	2.611	9.3	19.7
5 21	16 46.91	-13 50.6	1.574	2.566	5.7	21.0	5 21	16 47.34	-23 31.2	1.602	2.598	5.1	19.4
5 31	16 37.03	-13 12.7	1.554	2.561	3.5	20.8	5 31	16 37.12	-23 53.6	1.570	2.584	0.9	19.1
6 10	16 27.05	-12 42.1	1.561	2.555	5.9	21.0	6 10	16 26.54	-24 11.8	1.566	2.570	4.3	19.3
6 20	16 18.08	-12 21.5	1.594	2.549	9.9	21.2	6 20	16 16.81	-24 26.6	1.587	2.556	8.7	19.5
6 30	16 11.05	-12 12.9	1.650	2.543	13.7	21.4	6 30	16 9.03	-24 39.8	1.633	2.542	12.8	19.7
7 10	16 6.54	-12 16.6	1.726	2.535	16.9	21.6	7 10	16 3.93	-24 53.9	1.698	2.528	16.3	19.9
497342	2005 UH ₉₇		5 31.9 155°77	6°7/28.3	17		357572	2004 TF ₁₅₃		5 31.9 34°10	6°3/ 2.1	17	
5 1	17 0.03	- 7 0.7	1.976	2.848	12.2	21.8	5 1	17 5.16	-32 55.6	1.154	2.040	18.0	19.7
5 11	16 53.70	- 5 23.4	1.920	2.853	9.5	21.6	5 11	16 58.86	-33 55.1	1.103	2.047	13.7	19.5
5 21	16 45.75	- 3 52.4	1.890	2.858	7.3	21.5	5 21	16 49.11	-34 39.1	1.071	2.054	9.3	19.2
5 31	16 36.94	- 2 33.8	1.886	2.863	6.7	21.5	5 31	16 37.27	-35 1.9	1.062	2.062	6.4	19.1
6 10	16 28.19	- 1 32.1	1.910	2.867	8.3	21.6	6 10	16 25.32	-35 2.0	1.076	2.071	7.7	19.2
6 20	16 20.34	- 0 50.1	1.959	2.870	10.9	21.7	6 20	16 15.14	-34 43.0	1.112	2.080	11.7	19.4
6 30	16 14.10	- 0 28.5	2.031	2.874	13.5	21.9	6 30	16 8.19	-34 12.3	1.168	2.089	15.8	19.7
7 10	16 9.92	- 0 25.6	2.122	2.876	15.8	22.1	7 10	16 5.16	-33 38.1	1.242	2.099	19.5	20.0
263987	2009 KR ₂₈		5 31.9 292°26	3°2/31.1	18		37819	1998 BE ₅		5 31.9 104°30	2°0/31.3	18	
5 1	16 58.28	-12 31.4	2.172	3.051	11.0	20.7	5 1	17 2.44	-19 22.6	1.451	2.344	14.5	18.5
5 11	16 52.67	-12 27.8	2.085	3.031	8.0	20.5	5 11	16 55.97	-18 43.4	1.396	2.352	10.3	18.2
5 21	16 45.34	-12 28.7	2.022	3.011	5.0	20.2	5 21	16 47.16	-18 1.5	1.363	2.359	5.6	18.0
5 31	16 36.92	-12 35.4	1.986	2.991	3.2	20.1	5 31	16 37.10	-17 19.6	1.355	2.367	2.0	17.8
6 10	16 28.25	-12 49.0	1.978	2.971	5.0	20.2	6 10	16 27.10	-16 41.6	1.373	2.374	5.3	18.0
6 20	16 20.18	-13 10.1	1.997	2.951	8.3	20.3	6 20	16 18.41	-16 10.9	1.415	2.381	9.9	18.3
6 30	16 13.51	-13 38.9	2.040	2.930	11.5	20.5	6 30	16 11.98	-15 50.7	1.481	2.388	14.0	18.5
7 10	16 8.81	-14 14.9	2.105	2.910	14.4	20.6	7 10	16 8.36	-15 42.2	1.566	2.394	17.5	18.8
457678	2009 DT ₇₈		5 31.9 124°43	0°5/31.8	16		44130	1998 HU ₅₁		5 31.9 321°03	1°1/ 1.1	18	
5 1	17 4.9												

EPHEMERIDES

5 31.9

5 31.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
156383	2001 YE ₈₀		5 31.9 160°71	0°9/31.7	18		94095	2000 YG ₆₇		5 31.9 122°93	3°9/30.4	17	
5 1	17 1.68	-19 52.9	2.060	2.938	11.5	20.1	5 1	16 59.92	-12 25.3	2.074	2.952	11.5	20.3
5 11	16 55.00	-19 46.6	1.994	2.943	8.1	19.9	5 11	16 53.60	-11 39.4	2.020	2.965	8.4	20.2
5 21	16 46.54	-19 38.6	1.953	2.948	4.4	19.7	5 21	16 45.73	-10 57.1	1.992	2.978	5.3	20.0
5 31	16 37.07	-19 29.7	1.939	2.952	0.9	19.4	5 31	16 37.05	-10 21.1	1.990	2.990	3.9	19.9
6 10	16 27.57	-19 20.9	1.954	2.956	3.9	19.7	6 10	16 28.46	-9 54.2	2.017	3.002	5.7	20.1
6 20	16 18.96	-19 14.0	1.996	2.959	7.6	19.9	6 20	16 20.77	-9 38.0	2.070	3.014	8.6	20.3
6 30	16 12.02	-19 10.8	2.063	2.962	11.0	20.1	6 30	16 14.64	-9 33.5	2.147	3.025	11.5	20.5
7 10	16 7.27	-19 12.8	2.151	2.964	13.9	20.3	7 10	16 10.52	-9 40.1	2.245	3.036	14.1	20.7
33397	Prathiknaidu		5 31.9 12°03	6°1/2.6	17		499830	2011 DS ₃₀		5 31.9 100°89	5°8/30.8	17	
5 1	17 4.25	-34 37.1	1.247	2.126	17.4	18.3	5 1	17 1.68	-6 47.0	1.751	2.625	13.4	21.3
5 11	16 58.10	-35 6.2	1.187	2.127	13.4	18.1	5 11	16 55.07	-6 30.2	1.700	2.637	10.2	21.1
5 21	16 48.67	-35 17.5	1.147	2.128	9.2	17.9	5 21	16 46.60	-6 23.7	1.673	2.650	7.2	21.0
5 31	16 37.27	-35 6.6	1.130	2.130	6.3	17.7	5 31	16 37.13	-6 30.1	1.671	2.662	5.8	20.9
6 10	16 25.76	-34 34.0	1.136	2.132	7.3	17.8	6 10	16 27.73	-6 50.4	1.696	2.674	7.3	21.0
6 20	16 15.91	-33 44.6	1.165	2.134	11.2	18.0	6 20	16 19.36	-7 24.1	1.746	2.686	10.2	21.2
6 30	16 9.09	-32 46.8	1.215	2.136	15.3	18.2	6 30	16 12.81	-8 9.7	1.820	2.698	13.3	21.4
7 10	16 6.00	-31 49.1	1.283	2.139	19.1	18.5	7 10	16 8.59	-9 4.9	1.913	2.709	16.0	21.6
379303	2009 VQ ₇₈		5 31.9 266°34	6°0/30.7	18		136880	1998 FR ₁₃₀		5 31.9 17°42	1°8/31.5	17	
5 1	17 1.67	-6 5.0	1.798	2.670	13.3	20.3	5 1	16 58.85	-19 49.8	1.079	1.990	16.8	19.3
5 11	16 55.32	-5 55.4	1.719	2.654	10.2	20.1	5 11	16 54.04	-19 25.7	1.030	1.995	12.0	19.0
5 21	16 46.88	-5 56.9	1.663	2.639	7.4	19.8	5 21	16 46.38	-18 59.3	1.001	2.000	6.5	18.7
5 31	16 37.12	-6 12.1	1.633	2.623	6.0	19.7	5 31	16 37.12	-18 32.9	0.994	2.007	1.8	18.4
6 10	16 27.09	-6 42.5	1.629	2.607	7.6	19.8	6 10	16 27.90	-18 10.1	1.010	2.015	5.9	18.7
6 20	16 17.81	-7 27.6	1.650	2.591	10.7	19.9	6 20	16 20.22	-17 54.5	1.049	2.024	11.2	19.0
6 30	16 10.26	-8 26.0	1.696	2.574	14.1	20.1	6 30	16 15.22	-17 48.8	1.107	2.034	16.0	19.3
7 10	16 5.09	-9 35.0	1.761	2.557	17.1	20.3	7 10	16 13.51	-17 54.1	1.182	2.045	19.9	19.6
438973	Masci		5 31.9 282°47	5°2/29.8	18		162473	2000 LA ₁₆		5 31.9 308°67	5°9/30.3	18	
5 1	16 57.06	-6 47.4	2.343	3.212	10.7	21.5	5 1	16 59.74	-12 32.4	1.171	2.075	16.4	20.1
5 11	16 51.69	-6 13.7	2.256	3.189	8.2	21.3	5 11	16 55.10	-11 45.1	1.081	2.040	12.3	19.8
5 21	16 44.79	-5 46.7	2.194	3.166	6.1	21.1	5 21	16 47.32	-11 0.6	1.012	2.004	8.1	19.4
5 31	16 36.94	-5 29.3	2.158	3.143	5.2	21.0	5 31	16 37.25	-10 24.4	0.964	1.968	5.9	19.2
6 10	16 28.89	-5 23.7	2.149	3.120	6.6	21.0	6 10	16 26.34	-10 2.2	0.939	1.933	8.9	19.2
6 20	16 21.38	-5 31.0	2.167	3.097	9.1	21.1	6 20	16 16.23	-9 58.5	0.936	1.897	14.1	19.3
6 30	16 15.12	-5 51.4	2.209	3.073	11.8	21.3	6 30	16 8.52	-10 15.5	0.951	1.863	19.4	19.5
7 10	16 10.64	-6 23.8	2.271	3.049	14.3	21.4	7 10	16 4.31	-10 52.9	0.982	1.829	24.2	19.7
412486	2014 JL ₄		5 31.9 325°11	8°6/27.8	18		363925	2005 SF ₂₇₄		5 31.9 342°29	2°7/30.7	16	
5 1	16 54.94	-0 48.9	1.903	2.770	12.9	19.8	5 1	16 56.94	-16 21.8	2.025	2.912	11.3	21.1
5 11	16 50.39	+0 23.7	1.834	2.753	10.7	19.6	5 11	16 51.69	-15 36.3	1.957	2.909	8.1	20.8
5 21	16 44.14	+1 24.5	1.787	2.738	9.0	19.5	5 21	16 44.80	-14 50.7	1.913	2.907	4.7	20.6
5 31	16 36.88	+2 7.9	1.765	2.722	8.7	19.4	5 31	16 37.00	-14 7.6	1.897	2.904	2.7	20.5
6 10	16 29.48	+2 30.1	1.767	2.707	10.0	19.4	6 10	16 29.16	-13 30.3	1.907	2.902	4.9	20.6
6 20	16 22.79	+2 29.5	1.792	2.693	12.3	19.6	6 20	16 22.13	-13 1.2	1.944	2.900	8.3	20.8
6 30	16 17.57	+2 6.9	1.838	2.679	14.8	19.7	6 30	16 16.62	-12 42.2	2.005	2.899	11.5	21.0
7 10	16 14.38	+1 24.9	1.902	2.666	17.1	19.8	7 10	16 13.13	-12 34.1	2.087	2.897	14.3	21.2
246953	1999 RU ₂₀₁		5 31.9 293°37	3°1/2.4	18		84214	2002 RY ₁₆₇		5 31.9 126°57	2°6/30.9	18	
5 1	16 59.75	-32 38.0	2.178	3.040	11.6	20.2	5 1	16 59.13	-14 25.9	2.485	3.360	9.9	20.4
5 11	16 53.88	-32 23.0	2.085	3.020	8.8	20.0	5 11	16 52.87	-13 58.7	2.430	3.375	7.1	20.2
5 21	16 46.06	-31 55.9	2.017	3.000	5.6	19.8	5 21	16 45.29	-13 33.5	2.400	3.390	4.3	20.0
5 31	16 37.07	-31 15.9	1.975	2.979	3.2	19.6	5 31	16 37.04	-13 11.9	2.399	3.405	2.6	19.9
6 10	16 27.90	-30 24.5	1.960	2.959	4.3	19.6	6 10	16 28.85	-12 55.5	2.427	3.419	4.3	20.1
6 20	16 19.55	-29 25.1	1.973	2.939	7.5	19.8	6 20	16 21.42	-12 45.7	2.482	3.432	7.1	20.3
6 30	16 12.89	-28 22.5	2.011	2.919	10.8	19.9	6 30	16 15.32	-12 43.4	2.563	3.445	9.8	20.5
7 10	16 8.52	-27 21.8	2.071	2.899	13.8	20.1	7 10	16 10.95	-12 48.7	2.667	3.458	12.1	20.7
392138	2009 HY ₁		5 31.9 52°61	1°5/31.5	17		502937	2015 EO ₄₀		5 31.9 291°27	0°6/1.1	17	
5 1	16 58.84	-18 40.9	1.863	2.750	12.1	21.0	5 1	17 1.52	-23 27.4	1.668	2.554	13.3	21.2
5 11	16 53.03	-18 27.3	1.812	2.765	8.5	20.8	5 11	16 55.41	-23 35.9	1.598	2.550	9.5	21.0
5 21	16 45.47	-18 13.2	1.785	2.781	4.6	20.6	5 21	16 47.00	-23 40.1	1.550	2.546	5.2	20.7
5 31	16 37.00	-17 59.9	1.784	2.796	1.5	20.4	5 31	16 37.20	-23 39.2	1.528	2.542	0.8	20.4
6 10	16 28.62	-17 48.9	1.810	2.812	4.2	20.6	6 10	16 27.23	-23 34.3	1.533	2.538	4.2	20.6
6 20	16 21.22	-17 42.1	1.863	2.828	8.0	20.9	6 20	16 18.28	-23 27.1	1.564	2.534	8.7	20.9
6 30	16 15.56	-17 40.8	1.940	2.844	11.4	21.1	6 30	16 11.37	-23 20.6	1.618	2.530	12.7	21.1
7 10	16 12.10	-17 46.1	2.037	2.860	14.2	21.3	7 10	16 7.14	-23 17.6	1.692	2.526	16.2	21.3
97996	2000 QG ₁₈₉		5 31.9 31°48	1°6/31.7	17		178209	2006 VZ ₄₉		5 31.9 302°80	1°0/1.2	18	
5 1	17 3.26	-17 32.7	1.269	2.167	15.8	18.8	5 1	17 0.36	-23 44.0	2.118	2.995	11.3	19.6
5 11	16 56.99	-17 48.5	1.212	2.170	11.3	18.5	5 11	16 54.26	-24 12.0	2.043	2.991	8.1	19.4
5 21	16 47.94	-18 6.6	1.176	2.173	6.2	18.2	5 21	16 46.27	-24 37.0	1.992	2.986	4.5	19.2
5 31	16 37.25	-18 26.9	1.163	2.176	1.7	17.9	5 31	16 37.15	-24 57.9	1.969	2.982	1.1	18.9
6 10	16 26.43	-18 49.6	1.176	2.179	5.4	18.2	6 10	16 27.84	-25 14.3	1.974	2.978	3.6	19.1
6 20	16 16.94	-19 15.1	1.212	2.183	10.6	18.5	6 20	16 19.28	-25 26.9	2.007	2.974	7.3	19.3
6 30	16 9.99	-19 44.3	1.270	2.187	15.1	18.8	6 30	16 12.34	-25 37.4	2.064	2.970	10.7	19.5
7 10	16 6.27	-20 18.0	1.347	2.191	19.0	19.0	7 10	16 7.59	-25 47.9	2.143	2.966	13.6	19.7
504529	2008 RQ ₁₂₁		5 31.9 236°35	0°6/1.2	17		457623	2009 BA ₉₆		5 31.9 85°75	2°6/31.3	17	
5 1	17 1.03	-24 18.2	1.938	2.818									

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
99120	2001 <i>FH</i> ₇₃		5 31.9 67°04	0.6/ 1.1	18		433544	2013 <i>WO</i> ₁₀₆		5 31.9 189°41	0.2/ 1.0	18	
5 1	17 1.28	-23 12.4	1.793	2.677	12.7	19.8	5 1	17 3.40	-21 47.5	2.362	3.231	10.6	21.8
5 11	16 54.98	-23 25.6	1.734	2.686	9.0	19.5	5 11	16 56.22	-22 8.1	2.286	3.230	7.5	21.6
5 21	16 46.64	-23 34.9	1.700	2.695	4.9	19.3	5 21	16 47.28	-22 26.7	2.235	3.229	4.1	21.4
5 31	16 37.18	-23 39.8	1.691	2.704	0.8	19.0	5 31	16 37.31	-22 42.4	2.213	3.226	0.4	21.1
6 10	16 27.69	-23 40.8	1.709	2.714	3.9	19.3	6 10	16 27.18	-22 55.4	2.220	3.223	3.3	21.3
6 20	16 19.24	-23 39.7	1.754	2.723	8.0	19.6	6 20	16 17.77	-23 6.2	2.256	3.220	6.9	21.5
6 30	16 12.71	-23 38.7	1.823	2.733	11.7	19.8	6 30	16 9.87	-23 16.4	2.319	3.215	10.1	21.7
7 10	16 8.64	-23 40.2	1.913	2.743	14.7	20.0	7 10	16 4.02	-23 27.7	2.404	3.210	12.8	21.9
317386	2002 <i>OD</i> ₃₆		5 31.9 137°61	0.3/31.9	18		54272	2000 <i>JT</i> ₄₀		5 31.9 336°11	1.2/31.6	18	R
5 1	17 0.15	-21 25.5	1.947	2.829	11.9	20.9	5 1	16 58.74	-19 30.2	1.915	2.802	11.9	19.4
5 11	16 54.09	-21 21.4	1.879	2.831	8.4	20.7	5 11	16 53.12	-19 13.3	1.847	2.800	8.4	19.1
5 21	16 46.15	-21 14.5	1.836	2.833	4.5	20.5	5 21	16 45.67	-18 54.9	1.802	2.798	4.6	18.9
5 31	16 37.14	-21 5.3	1.820	2.834	0.5	20.2	5 31	16 37.16	-18 36.0	1.784	2.796	1.3	18.7
6 10	16 28.07	-20 55.0	1.832	2.835	3.8	20.4	6 10	16 28.57	-18 18.7	1.792	2.795	4.2	18.9
6 20	16 19.89	-20 45.5	1.870	2.837	7.8	20.7	6 20	16 20.85	-18 4.9	1.828	2.793	8.0	19.1
6 30	16 13.44	-20 38.9	1.932	2.838	11.3	20.9	6 30	16 14.81	-17 56.8	1.887	2.792	11.6	19.3
7 10	16 9.25	-20 37.2	2.016	2.839	14.3	21.1	7 10	16 10.99	-17 55.6	1.967	2.791	14.6	19.5
355102	2006 <i>TQ</i> ₈₉		5 31.9 202°67	1.3/ 1.6	18		110818	2001 <i>UR</i> ₄₈		5 31.9 144°54	3.7/30.3	18	
5 1	16 59.37	-27 13.4	2.921	3.783	9.0	22.9	5 1	16 57.53	-11 16.9	2.452	3.326	10.1	20.2
5 11	16 53.12	-27 12.8	2.839	3.778	6.5	22.7	5 11	16 51.84	-10 39.1	2.390	3.332	7.4	20.0
5 21	16 45.50	-27 6.7	2.783	3.773	3.7	22.6	5 21	16 44.82	-10 5.0	2.355	3.338	4.9	19.9
5 31	16 37.09	-26 54.7	2.756	3.767	1.4	22.4	5 31	16 37.08	-9 37.1	2.347	3.344	3.7	19.8
6 10	16 28.60	-26 37.7	2.758	3.760	2.9	22.5	6 10	16 29.36	-9 17.4	2.367	3.350	5.2	19.9
6 20	16 20.71	-26 17.3	2.789	3.753	5.7	22.7	6 20	16 22.34	-9 7.1	2.414	3.355	7.7	20.1
6 30	16 14.03	-25 55.6	2.847	3.745	8.4	22.8	6 30	16 16.59	-9 6.9	2.486	3.360	10.3	20.3
7 10	16 9.02	-25 34.9	2.929	3.737	10.7	23.0	7 10	16 12.53	-9 16.4	2.580	3.364	12.6	20.4
365827	2011 <i>SA</i> ₂₆₀		5 31.9 133°66	1.4/31.5	16		508186	2015 <i>FG</i> ₃₁₈		5 31.9 199°33	6.1/29.9	17	
5 1	17 4.19	-20 19.1	1.505	2.394	14.4	22.0	5 1	16 58.99	-6 3.7	1.971	2.843	12.3	21.1
5 11	16 57.21	-19 48.0	1.449	2.403	10.2	21.8	5 11	16 53.16	-5 22.2	1.908	2.841	9.5	20.9
5 21	16 47.89	-19 13.4	1.415	2.411	5.5	21.5	5 21	16 45.64	-4 49.5	1.868	2.840	7.1	20.7
5 31	16 37.31	-18 37.3	1.406	2.419	1.5	21.3	5 31	16 37.16	-4 29.1	1.855	2.838	6.2	20.7
6 10	16 26.80	-18 3.1	1.424	2.427	5.0	21.5	6 10	16 28.64	-4 23.5	1.868	2.837	7.5	20.8
6 20	16 17.59	-17 34.1	1.468	2.434	9.6	21.8	6 20	16 20.92	-4 33.4	1.906	2.835	10.2	20.9
6 30	16 10.65	-17 13.6	1.535	2.441	13.7	22.1	6 30	16 14.75	-4 58.4	1.967	2.833	13.0	21.1
7 10	16 6.53	-17 3.3	1.621	2.447	17.1	22.3	7 10	16 10.64	-5 36.4	2.048	2.831	15.5	21.3
391267	2006 <i>SE</i> ₄₃		5 31.9 230°95	4.1/30.1	16		4382	Stravinsky		5 31.9 257°78	2.9/31.1	18	
5 1	16 57.27	-11 14.7	2.256	3.134	10.7	21.9	5 1	17 1.17	-15 0.2	1.903	2.784	12.2	16.8
5 11	16 51.80	-10 26.8	2.186	3.130	7.9	21.7	5 11	16 54.98	-14 42.9	1.818	2.768	8.8	16.5
5 21	16 44.84	-9 42.4	2.142	3.126	5.3	21.6	5 21	16 46.77	-14 27.5	1.758	2.750	5.2	16.3
5 31	16 37.05	-9 4.5	2.125	3.121	4.2	21.5	5 31	16 37.28	-14 15.9	1.724	2.732	2.9	16.1
6 10	16 29.21	-8 35.8	2.135	3.116	5.7	21.6	6 10	16 27.52	-14 9.8	1.718	2.714	5.2	16.2
6 20	16 22.06	-8 18.1	2.171	3.112	8.5	21.7	6 20	16 18.50	-14 10.8	1.738	2.695	9.0	16.4
6 30	16 16.28	-8 12.4	2.232	3.107	11.3	21.9	6 30	16 11.15	-14 20.2	1.782	2.676	12.7	16.5
7 10	16 12.31	-8 18.4	2.314	3.102	13.8	22.1	7 10	16 6.12	-14 38.4	1.847	2.657	15.9	16.7
276575	2003 <i>SR</i> ₂₇₀		5 31.9 324°82	1.2/31.9	18		160552	1998 <i>QB</i> ₇₁		5 31.9 258°66	2.8/30.7	18	
5 1	17 1.02	-17 17.1	1.487	2.381	14.2	19.9	5 1	16 59.72	-15 26.1	2.321	3.197	10.5	20.7
5 11	16 55.40	-17 53.3	1.409	2.365	10.2	19.6	5 11	16 53.67	-14 44.9	2.227	3.174	7.6	20.5
5 21	16 47.20	-18 34.0	1.353	2.350	5.6	19.3	5 21	16 45.95	-14 3.3	2.159	3.150	4.6	20.3
5 31	16 37.28	-19 18.1	1.322	2.335	1.2	18.9	5 31	16 37.20	-13 23.6	2.119	3.125	2.8	20.1
6 10	16 26.92	-20 4.6	1.317	2.321	4.9	19.1	6 10	16 28.24	-12 48.5	2.108	3.100	4.8	20.2
6 20	16 17.44	-20 52.3	1.337	2.308	9.8	19.4	6 20	16 19.88	-12 20.5	2.124	3.075	8.1	20.3
6 30	16 10.08	-21 41.1	1.380	2.295	14.3	19.6	6 30	16 12.87	-12 1.6	2.166	3.048	11.3	20.5
7 10	16 5.64	-22 31.5	1.442	2.284	18.1	19.8	7 10	16 7.76	-11 52.9	2.229	3.021	14.1	20.6
364874	2008 <i>DH</i> ₈₄		5 31.9 137°70	6.2/ 3.7	18		123519	2000 <i>XM</i> ₃		5 31.9 303°52	6.2/ 3.6	18	
5 1	17 4.41	-43 19.8	2.687	3.494	11.3	21.7	5 1	17 3.23	-38 40.2	1.607	2.463	15.4	18.5
5 11	16 57.02	-43 57.2	2.621	3.503	9.3	21.5	5 11	16 57.13	-38 32.3	1.519	2.442	12.2	18.3
5 21	16 47.72	-44 19.8	2.579	3.512	7.5	21.4	5 21	16 48.17	-38 3.0	1.451	2.421	8.9	18.0
5 31	16 37.33	-44 25.0	2.562	3.520	6.3	21.4	5 31	16 37.41	-37 9.2	1.407	2.400	6.4	17.8
6 10	16 26.87	-44 12.3	2.573	3.528	6.5	21.4	6 10	16 26.39	-35 51.9	1.389	2.380	6.9	17.8
6 20	16 17.35	-43 43.8	2.610	3.536	7.9	21.5	6 20	16 16.64	-34 16.8	1.395	2.360	10.1	17.9
6 30	16 9.59	-43 3.4	2.672	3.544	9.8	21.6	6 30	16 9.42	-32 32.9	1.425	2.340	13.9	18.1
7 10	16 4.16	-42 16.4	2.756	3.551	11.6	21.8	7 10	16 5.48	-30 49.8	1.475	2.320	17.6	18.3
353614	2011 <i>UE</i> ₃₁		5 31.9 242°97	1.8/ 1.5	18		402489	2006 <i>CQ</i> ₄₅		5 31.9 211°76	3.1/ 1.8	17	
5 1	17 0.64	-26 28.4	2.295	3.166	10.8	20.0	5 1	17 6.37	-29 28.6	1.596	2.469	14.5	21.5
5 11	16 54.38	-26 57.7	2.219	3.162	7.8	19.8	5 11	16 59.11	-29 42.0	1.522	2.465	10.7	21.2
5 21	16 46.34	-27 22.2	2.169	3.159	4.6	19.6	5 21	16 49.14	-29 44.7	1.471	2.459	6.6	21.0
5 31	16 37.21	-27 40.5	2.146	3.156	1.9	19.4	5 31	16 37.50	-29 34.4	1.445	2.453	3.2	20.8
6 10	16 27.91	-27 52.2	2.151	3.153	3.6	19.5	6 10	16 25.63	-29 11.6	1.445	2.446	5.1	20.9
6 20	16 19.34	-27 58.2	2.184	3.149	6.9	19.7	6 20	16 14.96	-28 39.5	1.471	2.439	9.4	21.1
6 30	16 12.30	-28 0.5	2.243	3.146	10.1	19.9	6 30	16 6.70	-28 3.7	1.521	2.431	13.5	21.3
7 10	16 7.35	-28 1.7	2.323	3.142	12.8	20.1	7 10	16 1.56	-27 29.6	1.591	2.423	17.1	21.5
113833	2002 <i>TC</i> ₂₂₉		5 31.9 185°04	1.5/31.5	18		283147	2008 <i>YS</i> ₁₂₄		5 31.9 247°52			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
285129	1995 <i>SD</i> ₆₂		5 31.9 251°96	4°0/30.7	17		316621	2011 <i>WN</i> ₇₀		5 31.9 228°63	0°3/ 1.1	18	
5 1	17 1.30	-13 46.2	1.660	2.547	13.4	21.6	5 1	16 58.61	-23 32.5	2.634	3.506	9.5	22.2
5 11	16 55.21	-13 8.1	1.585	2.535	9.8	21.4	5 11	16 52.73	-23 25.0	2.551	3.497	6.8	22.0
5 21	16 46.93	-12 32.3	1.533	2.524	6.1	21.1	5 21	16 45.40	-23 13.6	2.494	3.488	3.7	21.7
5 31	16 37.30	-12 2.0	1.507	2.511	4.0	21.0	5 31	16 37.20	-22 58.6	2.465	3.478	0.5	21.5
6 10	16 27.47	-11 40.5	1.507	2.499	6.3	21.1	6 10	16 28.90	-22 41.2	2.465	3.468	3.0	21.7
6 20	16 18.56	-11 30.1	1.532	2.486	10.3	21.3	6 20	16 21.21	-22 22.9	2.493	3.458	6.2	21.9
6 30	16 11.54	-11 32.4	1.580	2.473	14.1	21.5	6 30	16 14.79	-22 5.9	2.547	3.447	9.2	22.0
7 10	16 7.08	-11 47.3	1.647	2.460	17.5	21.7	7 10	16 10.12	-21 52.0	2.625	3.436	11.7	22.2
134651	1999 <i>VQ</i> ₃₇		5 31.9 235°45	0°1/ 1.0	18		367730	2010 <i>UM</i> ₅₆		5 31.9 210°38	0°6/ 1.2	17	
5 1	17 4.64	-21 59.2	1.978	2.852	12.1	20.2	5 1	17 3.64	-24 39.2	1.945	2.819	12.3	22.0
5 11	16 57.51	-22 11.7	1.890	2.837	8.7	19.9	5 11	16 56.71	-24 30.4	1.866	2.813	8.8	21.8
5 21	16 48.18	-22 21.6	1.827	2.821	4.7	19.7	5 21	16 47.69	-24 15.5	1.813	2.807	4.8	21.5
5 31	16 37.44	-22 28.2	1.791	2.805	0.5	19.3	5 31	16 37.42	-23 54.3	1.786	2.799	0.8	21.2
6 10	16 26.36	-22 31.6	1.783	2.787	3.9	19.5	6 10	16 27.00	-23 28.5	1.787	2.791	3.9	21.4
6 20	16 16.04	-22 33.2	1.804	2.769	8.2	19.8	6 20	16 17.51	-23 0.6	1.816	2.783	8.0	21.7
6 30	16 7.49	-22 35.1	1.849	2.750	12.0	20.0	6 30	16 9.86	-22 34.2	1.870	2.773	11.7	21.9
7 10	16 1.41	-22 39.7	1.916	2.730	15.3	20.1	7 10	16 4.67	-22 12.6	1.944	2.763	14.9	22.1
401055	2011 <i>UU</i> ₁₉		5 31.9 336°98	0°2/31.9	16		436937	2012 <i>TE</i> ₁₃₀		5 31.9 249°25	4°8/29.5	18	
5 1	16 58.00	-23 27.8	2.048	2.930	11.4	21.1	5 1	16 58.79	-11 12.3	2.078	2.956	11.4	21.6
5 11	16 52.52	-22 51.9	1.976	2.927	8.1	20.9	5 11	16 53.05	-10 0.6	2.002	2.945	8.5	21.4
5 21	16 45.32	-22 10.2	1.928	2.925	4.3	20.6	5 21	16 45.62	-8 51.2	1.951	2.933	5.9	21.3
5 31	16 37.16	-21 24.4	1.908	2.922	0.4	20.3	5 31	16 37.23	-7 48.3	1.927	2.921	4.9	21.2
6 10	16 28.98	-20 37.3	1.915	2.919	3.7	20.6	6 10	16 28.74	-6 56.2	1.931	2.909	6.6	21.2
6 20	16 21.64	-19 52.1	1.950	2.917	7.5	20.8	6 20	16 20.99	-6 17.8	1.961	2.896	9.6	21.4
6 30	16 15.92	-19 12.3	2.009	2.915	10.9	21.0	6 30	16 14.72	-5 54.8	2.015	2.883	12.6	21.6
7 10	16 12.30	-18 40.4	2.090	2.913	13.9	21.2	7 10	16 10.46	-5 47.2	2.089	2.870	15.3	21.7
478085	2011 <i>US</i> ₃₈		5 31.9 279°63	1°7/ 1.4	18		476247	2007 <i>VT</i> ₇₆		5 31.9 236°47	0°6/ 1.2	16	
5 1	17 0.98	-25 46.8	2.172	3.045	11.2	21.9	5 1	17 0.69	-23 31.8	2.207	3.083	11.0	22.3
5 11	16 54.79	-26 18.5	2.089	3.033	8.1	21.7	5 11	16 54.47	-23 41.6	2.127	3.075	7.8	22.1
5 21	16 46.66	-26 46.2	2.030	3.022	4.7	21.4	5 21	16 46.44	-23 47.8	2.072	3.067	4.3	21.9
5 31	16 37.30	-27 8.0	1.999	3.010	1.8	21.2	5 31	16 37.31	-23 50.0	2.045	3.058	0.7	21.6
6 10	16 27.66	-27 23.6	1.996	2.998	3.8	21.3	6 10	16 28.01	-23 48.6	2.046	3.050	3.5	21.8
6 20	16 18.72	-27 33.5	2.020	2.986	7.3	21.5	6 20	16 19.43	-23 44.9	2.074	3.041	7.2	22.0
6 30	16 11.37	-27 39.6	2.070	2.974	10.7	21.7	6 30	16 12.40	-23 41.2	2.128	3.031	10.5	22.2
7 10	16 6.23	-27 44.6	2.141	2.963	13.7	21.9	7 10	16 7.49	-23 39.4	2.203	3.022	13.4	22.4
379719	2011 <i>GQ</i> ₃₁		5 31.9 121°97	0°8/ 1.3	17		499831	2011 <i>DK</i> ₃₁		5 31.9 30°24	5°7/30.6	17	
5 1	17 1.95	-25 4.4	1.849	2.728	12.6	21.5	5 1	16 59.20	-9 48.0	1.448	2.340	14.6	20.6
5 11	16 55.44	-24 56.0	1.786	2.735	9.0	21.3	5 11	16 53.73	-9 12.6	1.396	2.346	10.9	20.4
5 21	16 46.93	-24 41.3	1.748	2.742	4.9	21.0	5 21	16 46.09	-8 45.7	1.367	2.352	7.4	20.2
5 31	16 37.31	-24 20.3	1.736	2.749	1.0	20.7	5 31	16 37.28	-8 30.9	1.361	2.359	5.7	20.1
6 10	16 27.71	-23 54.9	1.751	2.756	3.9	21.0	6 10	16 28.48	-8 30.9	1.381	2.367	7.6	20.2
6 20	16 19.16	-23 27.9	1.793	2.762	7.9	21.2	6 20	16 20.82	-8 46.2	1.424	2.375	11.2	20.4
6 30	16 12.52	-23 2.6	1.860	2.768	11.5	21.5	6 30	16 15.22	-9 16.2	1.488	2.383	14.7	20.7
7 10	16 8.32	-22 42.1	1.948	2.774	14.6	21.7	7 10	16 12.20	-9 58.5	1.571	2.392	17.8	20.9
501138	2013 <i>TM</i> ₄₃		5 31.9 183°30	5°5/ 2.6	17		75824	2000 <i>BS</i> ₁₅		5 31.9 66°07	1°2/ 1.2	18	
5 1	17 6.55	-37 24.9	2.190	3.027	12.5	22.4	5 1	17 3.79	-23 48.5	1.478	2.366	14.6	18.9
5 11	16 58.86	-38 7.3	2.116	3.028	9.8	22.2	5 11	16 57.20	-24 14.5	1.420	2.373	10.5	18.7
5 21	16 48.87	-38 36.6	2.067	3.028	7.2	22.0	5 21	16 48.07	-24 35.9	1.384	2.380	5.8	18.4
5 31	16 37.50	-38 49.2	2.043	3.028	5.6	21.9	5 31	16 37.47	-24 51.2	1.374	2.387	1.3	18.2
6 10	16 25.93	-38 44.2	2.047	3.027	6.2	21.9	6 10	16 26.79	-25 0.3	1.389	2.394	4.6	18.4
6 20	16 15.35	-38 23.6	2.078	3.025	8.5	22.1	6 20	16 17.36	-25 4.8	1.430	2.402	9.2	18.7
6 30	16 6.77	-37 51.9	2.134	3.023	11.2	22.2	6 30	16 10.29	-25 7.7	1.494	2.409	13.4	19.0
7 10	16 0.84	-37 14.6	2.212	3.020	13.7	22.4	7 10	16 6.20	-25 12.0	1.577	2.416	16.9	19.2
61539	2000 <i>QB</i> ₆₄		5 31.9 55°80	3°1/31.5	17		63100	2000 <i>WP</i> ₁₄₆		5 31.9 210°93	8°9/27.8	18	
5 1	17 3.38	-14 40.2	1.323	2.217	15.6	18.7	5 1	16 56.46	+ 6 45.0	2.501	3.323	11.6	19.3
5 11	16 56.98	-14 45.7	1.266	2.221	11.2	18.4	5 11	16 51.13	+ 7 38.6	2.445	3.321	10.1	19.2
5 21	16 47.97	-14 56.3	1.231	2.226	6.5	18.2	5 21	16 44.50	+ 8 17.2	2.411	3.318	9.1	19.1
5 31	16 37.42	-15 13.0	1.220	2.230	3.1	18.0	5 31	16 37.15	+ 8 37.0	2.402	3.316	8.9	19.1
6 10	16 26.79	-15 36.3	1.234	2.235	6.0	18.2	6 10	16 29.76	+ 8 36.1	2.417	3.313	9.7	19.2
6 20	16 17.44	-16 6.2	1.273	2.239	10.7	18.4	6 20	16 23.00	+ 8 14.4	2.456	3.310	11.1	19.2
6 30	16 10.50	-16 42.9	1.333	2.244	15.0	18.7	6 30	16 17.44	+ 7 33.7	2.517	3.307	12.7	19.4
7 10	16 6.63	-17 25.9	1.412	2.249	18.6	19.0	7 10	16 13.50	+ 6 37.1	2.596	3.304	14.3	19.5
389094	2008 <i>XB</i> ₄₀		5 31.9 165°09	0°1/ 1.0	18		211907	2004 <i>NL</i> ₄		5 31.9 44°14	22°0/ 2.5	17	
5 1	17 1.16	-22 11.6	2.086	2.964	11.4	21.2	5 1	17 6.68	+21 40.3	1.048	1.844	25.7	19.6
5 11	16 54.77	-22 20.8	2.017	2.966	8.1	21.0	5 11	16 59.55	+22 30.9	1.015	1.849	24.0	19.5
5 21	16 46.56	-22 27.3	1.973	2.968	4.4	20.7	5 21	16 49.38	+22 31.7	0.994	1.854	22.7	19.4
5 31	16 37.30	-22 30.7	1.956	2.970	0.4	20.4	5 31	16 37.59	+21 33.5	0.988	1.860	22.0	19.4
6 10	16 27.94	-22 31.7	1.967	2.971	3.6	20.7	6 10	16 25.97	+19 35.5	0.998	1.866	22.3	19.4
6 20	16 19.43	-22 31.4	2.006	2.972	7.4	20.9	6 20	16 16.13	+16 45.4	1.024	1.872	23.3	19.5
6 30	16 12.56	-22 32.0	2.069	2.973	10.8	21.1	6 30	16 9.26	+13 16.7	1.067	1.879	25.0	19.7
7 10	16 7.88	-22 35.2	2.155	2.974	13.7	21.3	7 10	16 5.93	+ 9 25.8	1.125	1.886	26.8	19.8
376810	2000 <i>WZ</i> ₁₁₆		5 31.9 204°70	2°3/ 2.1	18		206961	2004 <i>SN</i>					

EPHEMERIDES

5 31.9

6 1.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
383945	2008 <i>ST</i> ₂₆₈		5 31.9 293°21	3°4/31.1	17		324444	2006 <i>TS</i> ₆₉		6 1.0 132°01	0°4/31.9	18	
5 1	17 0.10	-14 19.2	1.698	2.586	13.0	20.6	5 1	17 3.80	-21 0.1	1.774	2.655	12.9	20.9
5 11	16 54.51	-14 0.2	1.611	2.562	9.5	20.3	5 11	16 56.79	-21 1.4	1.715	2.665	9.2	20.7
5 21	16 46.68	-13 43.9	1.546	2.538	5.8	20.0	5 21	16 47.71	-21 0.1	1.679	2.675	4.9	20.5
5 31	16 37.37	-13 32.6	1.507	2.514	3.4	19.8	5 31	16 37.47	-20 56.4	1.671	2.684	0.6	20.2
6 10	16 27.68	-13 28.6	1.494	2.490	5.8	19.9	6 10	16 27.23	-20 51.4	1.689	2.693	4.1	20.5
6 20	16 18.73	-13 33.6	1.506	2.466	10.0	20.1	6 20	16 18.08	-20 46.9	1.735	2.701	8.3	20.7
6 30	16 11.58	-13 48.8	1.542	2.442	14.0	20.3	6 30	16 10.91	-20 45.2	1.805	2.709	12.0	21.0
7 10	16 6.95	-14 14.3	1.597	2.418	17.5	20.5	7 10	16 6.27	-20 48.1	1.895	2.717	15.2	21.2
373479	2000 <i>SQ</i> ₂₉₁		5 31.9 173°56	0°8/31.6	18 R		508107	2015 <i>DD</i> ₁₇₅		6 1.0 347°15	3°5/2.6	17	
5 1	17 1.10	-20 26.5	2.547	3.418	9.8	22.0	5 1	16 59.48	-32 52.8	1.441	2.323	15.3	20.1
5 11	16 54.40	-20 5.1	2.476	3.422	7.0	21.9	5 11	16 54.34	-32 21.6	1.370	2.315	11.5	19.8
5 21	16 46.25	-19 41.3	2.431	3.425	3.8	21.7	5 21	16 46.60	-31 32.4	1.321	2.309	7.3	19.6
5 31	16 37.31	-19 15.9	2.415	3.428	0.9	21.4	5 31	16 37.37	-30 25.3	1.296	2.303	3.8	19.3
6 10	16 28.36	-18 50.8	2.428	3.429	3.3	21.6	6 10	16 28.10	-29 4.2	1.295	2.298	5.2	19.4
6 20	16 20.14	-18 27.8	2.470	3.430	6.6	21.8	6 20	16 20.15	-27 35.8	1.320	2.295	9.5	19.6
6 30	16 13.28	-18 8.8	2.539	3.431	9.5	22.0	6 30	16 14.62	-26 8.4	1.367	2.292	13.7	19.9
7 10	16 8.24	-17 55.6	2.630	3.430	12.0	22.2	7 10	16 12.11	-24 49.1	1.434	2.289	17.4	20.1
342603	2008 <i>UW</i> ₃₁₅		5 31.9 215°90	0°7/1.2	18		219558	2001 <i>RE</i> ₁₄₂		6 1.0 212°74	10°2/25.4	18	
5 1	17 2.03	-23 50.5	2.391	3.261	10.5	21.8	5 1	16 59.82	+ 8 9.5	2.381	3.192	12.4	21.1
5 11	16 55.33	-24 4.1	2.308	3.253	7.5	21.6	5 11	16 53.60	+ 9 45.1	2.321	3.184	11.1	21.0
5 21	16 46.88	-24 14.0	2.251	3.244	4.1	21.4	5 21	16 45.88	+11 5.4	2.284	3.175	10.3	21.0
5 31	16 37.38	-24 19.7	2.222	3.235	0.8	21.1	5 31	16 37.31	+12 4.8	2.273	3.165	10.3	20.9
6 10	16 27.69	-24 21.4	2.222	3.225	3.3	21.3	6 10	16 28.64	+12 39.8	2.286	3.154	11.3	21.0
6 20	16 18.68	-24 20.3	2.250	3.215	6.8	21.5	6 20	16 20.62	+12 49.4	2.322	3.142	12.7	21.1
6 30	16 11.13	-24 18.2	2.305	3.204	10.0	21.7	6 30	16 13.92	+12 34.9	2.378	3.130	14.4	21.2
7 10	16 5.59	-24 17.4	2.382	3.193	12.8	21.9	7 10	16 9.01	+11 59.6	2.451	3.117	16.0	21.3
383868	2008 <i>RK</i> ₂₅		6 1.0 295°82	9°7/4.4	15		272760	2005 <i>YG</i> ₁₅₂		6 1.0 10°33	6°4/31.0	18	
5 1	17 6.68	-46 8.2	1.703	2.522	16.3	21.0	5 1	17 0.85	- 5 40.1	1.622	2.499	14.2	19.7
5 11	16 59.95	-46 42.6	1.615	2.501	13.9	20.8	5 11	16 54.81	- 5 34.0	1.562	2.500	10.9	19.5
5 21	16 49.90	-46 53.8	1.546	2.479	11.5	20.6	5 21	16 46.70	- 5 40.5	1.524	2.501	7.8	19.4
5 31	16 37.68	-46 35.1	1.500	2.458	9.9	20.5	5 31	16 37.38	- 6 2.3	1.511	2.502	6.4	19.3
6 10	16 25.04	-45 44.5	1.477	2.436	10.1	20.4	6 10	16 27.98	- 6 40.1	1.523	2.503	7.8	19.4
6 20	16 13.80	-44 25.4	1.478	2.415	11.9	20.5	6 20	16 19.55	- 7 32.8	1.561	2.505	10.9	19.5
6 30	16 5.45	-42 46.3	1.501	2.393	14.7	20.6	6 30	16 13.01	- 8 37.9	1.621	2.506	14.2	19.8
7 10	16 0.81	-40 58.2	1.544	2.372	17.7	20.7	7 10	16 8.94	- 9 52.3	1.701	2.508	17.2	20.0
55526	2001 <i>VV</i> ₅₈		6 1.0 35°00	4°4/2.3	18		18710	1998 <i>HF</i> ₁₀₀		6 1.0 55°16	2°6/31.4	18	
5 1	17 1.93	-33 46.4	2.030	2.889	12.5	19.0	5 1	17 0.85	-16 14.3	1.547	2.439	13.9	17.5
5 11	16 55.59	-34 21.3	1.962	2.891	9.5	18.8	5 11	16 54.78	-16 0.8	1.499	2.454	9.9	17.3
5 21	16 47.12	-34 45.0	1.918	2.894	6.5	18.6	5 21	16 46.62	-15 49.2	1.474	2.469	5.6	17.1
5 31	16 37.41	-34 55.2	1.900	2.897	4.5	18.5	5 31	16 37.37	-15 41.4	1.474	2.484	2.6	16.9
6 10	16 27.56	-34 51.3	1.909	2.900	5.4	18.6	6 10	16 28.21	-15 38.9	1.500	2.500	5.2	17.1
6 20	16 18.68	-34 35.4	1.944	2.903	8.1	18.7	6 20	16 20.23	-15 43.2	1.551	2.515	9.3	17.4
6 30	16 11.71	-34 11.4	2.003	2.906	11.1	18.9	6 30	16 14.31	-15 55.1	1.625	2.531	13.0	17.6
7 10	16 7.24	-33 43.9	2.084	2.910	13.8	19.1	7 10	16 10.94	-16 14.8	1.719	2.547	16.2	17.9
478105	2011 <i>UW</i> ₇₄		6 1.0 180°25	3°0/30.6	16		24975	1998 <i>HO</i> ₃₈		6 1.0 305°47	0°4/31.9	18	
5 1	16 57.33	-14 15.0	2.380	3.259	10.1	21.5	5 1	17 2.01	-22 37.3	1.152	2.056	16.7	18.5
5 11	16 51.81	-13 34.5	2.312	3.259	7.3	21.3	5 11	16 56.59	-22 16.2	1.084	2.045	12.0	18.2
5 21	16 44.89	-12 55.4	2.270	3.259	4.5	21.1	5 21	16 48.05	-21 48.0	1.035	2.034	6.5	17.8
5 31	16 37.20	-12 20.3	2.256	3.260	3.0	21.0	5 31	16 37.52	-21 14.1	1.010	2.023	0.7	17.4
6 10	16 29.49	-11 51.3	2.269	3.259	4.7	21.2	6 10	16 26.69	-20 37.8	1.007	2.013	5.6	17.7
6 20	16 22.48	-11 30.5	2.310	3.259	7.6	21.3	6 20	16 17.22	-20 3.8	1.028	2.003	11.4	18.0
6 30	16 16.77	-11 18.9	2.376	3.259	10.4	21.5	6 30	16 10.50	-19 37.4	1.069	1.994	16.6	18.2
7 10	16 12.81	-11 17.0	2.463	3.258	12.8	21.7	7 10	16 7.33	-19 22.1	1.127	1.985	21.0	18.5
67923	2000 <i>WR</i> ₁₁₃		6 1.0 272°55	2°9/1.9	18		475136	2005 <i>UY</i> ₃₃₇		6 1.0 275°99	3°1/30.5	18	
5 1	17 3.81	-29 48.9	1.494	2.374	15.0	18.9	5 1	16 57.14	-14 48.7	2.283	3.164	10.4	22.2
5 11	16 57.53	-29 45.0	1.413	2.359	11.1	18.6	5 11	16 51.82	-13 59.0	2.203	3.151	7.6	22.0
5 21	16 48.43	-29 28.3	1.355	2.345	6.8	18.3	5 21	16 44.97	-13 9.6	2.148	3.138	4.6	21.7
5 31	16 37.55	-28 57.3	1.321	2.330	3.1	18.1	5 31	16 37.23	-12 23.2	2.121	3.125	3.1	21.6
6 10	16 26.35	-28 13.5	1.312	2.315	5.2	18.1	6 10	16 29.39	-11 42.9	2.122	3.112	5.0	21.7
6 20	16 16.34	-27 21.3	1.329	2.300	9.8	18.4	6 20	16 22.21	-11 11.1	2.149	3.099	8.0	21.9
6 30	16 8.75	-26 27.1	1.368	2.285	14.2	18.6	6 30	16 16.37	-10 49.8	2.202	3.086	11.1	22.0
7 10	16 4.38	-25 37.4	1.427	2.270	18.1	18.8	7 10	16 12.35	-10 39.6	2.275	3.072	13.7	22.2
218961	2008 <i>EM</i> ₁₀₉		6 1.0 353°63	5°1/30.5	17		187096	2005 <i>QZ</i> ₁₂		6 1.0 308°28	0°9/31.8	18	
5 1	16 59.27	-12 36.9	1.338	2.237	15.1	19.8	5 1	16 59.97	-21 11.8	1.406	2.304	14.6	20.5
5 11	16 54.03	-11 50.5	1.279	2.234	11.1	19.6	5 11	16 54.79	-20 52.1	1.327	2.285	10.5	20.2
5 21	16 46.39	-11 9.0	1.242	2.232	7.1	19.3	5 21	16 46.97	-20 27.9	1.268	2.266	5.7	19.9
5 31	16 37.35	-10 36.7	1.228	2.231	5.1	19.2	5 31	16 37.43	-20 0.5	1.234	2.248	1.0	19.5
6 10	16 28.23	-10 17.5	1.238	2.230	7.5	19.3	6 10	16 27.53	-19 32.6	1.225	2.230	5.1	19.7
6 20	16 20.28	-10 13.7	1.272	2.229	11.6	19.6	6 20	16 18.64	-19 7.7	1.240	2.212	10.3	19.9
6 30	16 14.53	-10 26.0	1.327	2.229	15.6	19.8	6 30	16 11.99	-18 49.7	1.277	2.195	15.0	20.2
7 10	16 11.60	-10 52.9	1.399	2.230	19.1	20.0	7 10	16 8.36	-18 41.2	1.332	2.178	19.0	20.4
236644	2006 <i>KM</i> ₅₀		6 1.0 188°62	0°5/31.8	18		504040	2005 <					