

EPHEMERIDES

6 8.9

6 9.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
55471	2001 TZ ₂₂₆		6 8.9 70°44'	7.5/10.0	18		104485	2000 GJ ₂₅		6 9.0 134°54'	0.9/ 9.2	17	
5 1	17 43.38	-40 58.2	2.041	2.813	15.5	18.3	5 1	17 36.71	-25 32.8	2.084	2.895	14.0	19.9
5 11	17 38.39	-42 15.7	1.972	2.826	13.1	18.2	5 11	17 32.48	-25 38.7	1.999	2.897	11.1	19.7
5 21	17 30.33	-43 22.3	1.924	2.840	10.6	18.1	5 21	17 25.92	-25 41.3	1.936	2.898	7.6	19.5
5 31	17 19.85	-44 11.9	1.899	2.853	8.4	18.0	5 31	17 17.62	-25 39.4	1.898	2.900	3.8	19.3
6 10	17 8.13	-44 39.9	1.899	2.867	7.5	17.9	6 10	17 8.45	-25 32.7	1.887	2.901	1.0	19.0
6 20	16 56.54	-44 45.1	1.924	2.881	8.4	18.0	6 20	16 59.39	-25 21.6	1.903	2.902	4.5	19.3
6 30	16 46.46	-44 29.9	1.975	2.894	10.4	18.1	6 30	16 51.41	-25 8.0	1.945	2.904	8.2	19.5
7 10	16 38.93	-44 0.0	2.048	2.908	12.8	18.3	7 10	16 45.31	-24 54.2	2.012	2.905	11.6	19.7
299892	2006 SF ₃₄₆		6 8.9 140°81'	0.6/ 9.2	18		355733	2008 GA ₁₁₂		6 9.0 69°72'	1.4/ 9.0	18	
5 1	17 36.25	-25 32.2	2.565	3.364	12.0	21.5	5 1	17 38.25	-15 48.4	2.266	3.068	13.3	20.5
5 11	17 31.54	-25 26.9	2.481	3.372	9.4	21.3	5 11	17 33.36	-16 27.7	2.185	3.077	10.5	20.3
5 21	17 24.96	-25 18.1	2.420	3.380	6.5	21.2	5 21	17 26.37	-17 12.2	2.126	3.085	7.2	20.1
5 31	17 17.03	-25 5.3	2.385	3.387	3.2	21.0	5 31	17 17.81	-18 1.0	2.093	3.094	3.7	19.9
6 10	17 8.47	-24 48.6	2.379	3.394	0.6	20.8	6 10	17 8.43	-18 52.4	2.089	3.102	1.4	19.7
6 20	17 0.05	-24 29.0	2.401	3.400	3.7	21.0	6 20	16 59.10	-19 44.8	2.114	3.111	4.4	20.0
6 30	16 52.55	-24 8.1	2.452	3.407	6.9	21.2	6 30	16 50.70	-20 37.0	2.167	3.120	7.8	20.2
7 10	16 46.58	-23 48.0	2.527	3.413	9.8	21.4	7 10	16 43.95	-21 28.2	2.245	3.128	10.9	20.4
204262	2004 FZ ₂₁		6 9.0 81°46'	1.4/ 8.7	18		16412	1986 WZ		6 9.0 242°34'	0.0/ 8.9	18	
5 1	17 35.98	-19 37.6	2.121	2.934	13.7	20.1	5 1	17 37.14	-23 40.1	2.080	2.891	14.0	18.7
5 11	17 31.58	-19 25.3	2.050	2.949	10.7	19.9	5 11	17 32.87	-23 30.7	1.984	2.882	11.1	18.5
5 21	17 25.09	-19 13.0	2.001	2.964	7.3	19.7	5 21	17 26.25	-23 18.2	1.910	2.873	7.6	18.2
5 31	17 17.11	-19 1.2	1.977	2.979	3.7	19.5	5 31	17 17.82	-23 2.3	1.861	2.864	3.7	18.0
6 10	17 8.47	-18 50.6	1.981	2.994	1.5	19.4	6 10	17 8.43	-22 43.2	1.839	2.854	0.4	17.7
6 20	17 0.05	-18 42.1	2.012	3.009	4.6	19.6	6 20	16 59.08	-22 22.1	1.845	2.844	4.6	18.0
6 30	16 52.71	-18 36.9	2.070	3.024	8.1	19.8	6 30	16 50.75	-22 1.2	1.877	2.834	8.5	18.2
7 10	16 47.10	-18 36.0	2.152	3.038	11.2	20.1	7 10	16 44.27	-21 42.7	1.933	2.823	12.1	18.4
107535	2001 DB ₆₈		6 9.0 342°00'	5.5/ 9.9	18		305946	2009 HJ ₁₇		6 9.0 317°18'	4.1/ 7.8	16	
5 1	17 37.58	-33 34.2	1.334	2.164	19.3	19.3	5 1	17 32.94	-14 14.5	2.024	2.842	14.1	21.4
5 11	17 34.93	-34 10.9	1.256	2.158	15.9	19.0	5 11	17 29.45	-13 28.1	1.936	2.835	11.3	21.2
5 21	17 28.57	-34 37.8	1.196	2.153	11.8	18.8	5 21	17 23.83	-12 43.2	1.869	2.828	8.1	21.0
5 31	17 19.21	-34 49.3	1.157	2.149	7.7	18.5	5 31	17 16.61	-12 2.7	1.827	2.820	5.1	20.8
6 10	17 8.21	-34 41.6	1.141	2.145	5.5	18.4	6 10	17 8.57	-11 29.2	1.812	2.814	4.2	20.7
6 20	16 57.32	-34 14.7	1.148	2.141	7.8	18.5	6 20	17 0.60	-11 5.0	1.823	2.807	6.4	20.8
6 30	16 48.27	-33 32.8	1.177	2.138	12.0	18.7	6 30	16 53.59	-10 51.9	1.859	2.801	9.6	21.0
7 10	16 42.34	-32 43.2	1.227	2.136	16.2	19.0	7 10	16 48.27	-10 50.1	1.918	2.795	12.8	21.2
307002	2001 WM ₉₂		6 9.0 237°68'	0.1/ 8.9	18		361542	2007 PL ₂₄		6 9.0 295°20'	3.1/ 8.3	17	
5 1	17 38.66	-25 5.0	1.897	2.710	15.1	20.4	5 1	17 36.01	-19 2.3	1.348	2.190	18.5	20.7
5 11	17 34.26	-24 35.0	1.803	2.702	12.0	20.2	5 11	17 33.34	-18 24.5	1.253	2.169	14.9	20.4
5 21	17 27.27	-23 58.8	1.730	2.694	8.2	19.9	5 21	17 27.38	-17 44.4	1.178	2.147	10.5	20.1
5 31	17 18.30	-23 16.5	1.682	2.685	4.0	19.6	5 31	17 18.67	-17 3.8	1.123	2.126	5.7	19.7
6 10	17 8.34	-22 29.4	1.661	2.676	0.5	19.3	6 10	17 8.32	-16 25.5	1.092	2.104	3.2	19.5
6 20	16 58.46	-21 40.1	1.668	2.667	5.0	19.7	6 20	16 57.78	-15 53.2	1.086	2.083	7.5	19.7
6 30	16 49.80	-20 52.2	1.700	2.658	9.2	19.9	6 30	16 48.62	-15 30.4	1.102	2.062	12.7	19.9
7 10	16 43.22	-20 9.5	1.757	2.648	13.0	20.1	7 10	16 42.10	-15 19.9	1.138	2.041	17.6	20.2
235858	2005 AW ₃₇		6 9.0 201°32'	2.4/ 9.5	17		60124	1999 TG ₂₄₃		6 9.0 300°26'	0.2/ 9.0	18	
5 1	17 38.49	-29 14.1	2.098	2.901	14.2	21.3	5 1	17 37.17	-20 22.2	2.180	2.989	13.5	18.7
5 11	17 33.99	-29 32.6	2.009	2.900	11.3	21.1	5 11	17 33.00	-21 5.2	2.072	2.969	10.8	18.4
5 21	17 27.03	-29 45.9	1.942	2.898	8.0	20.9	5 21	17 26.47	-21 52.1	1.987	2.949	7.4	18.2
5 31	17 18.18	-29 51.7	1.899	2.896	4.5	20.7	5 31	17 18.03	-22 41.2	1.926	2.929	3.7	17.9
6 10	17 8.35	-29 48.8	1.884	2.894	2.4	20.5	6 10	17 8.40	-23 30.4	1.894	2.909	0.4	17.6
6 20	16 58.59	-29 37.3	1.895	2.892	4.9	20.7	6 20	16 58.54	-24 17.8	1.890	2.889	4.5	17.9
6 30	16 49.97	-29 19.1	1.934	2.889	8.4	20.9	6 30	16 49.46	-25 2.4	1.914	2.870	8.4	18.1
7 10	16 43.32	-28 57.5	1.996	2.886	11.7	21.1	7 10	16 42.10	-25 44.1	1.962	2.851	12.0	18.3
236320	2006 BO ₅₆		6 9.0 347°52'	7.4/ 9.5	17		413006	1999 VH ₁₅₄		6 9.0 239°76'	0.0/ 8.9	17	
5 1	17 39.00	-36 12.0	1.541	2.353	18.0	19.8	5 1	17 31.04	-23 23.2	3.650	4.445	8.8	23.2
5 11	17 35.86	-37 29.6	1.462	2.348	15.0	19.6	5 11	17 27.03	-23 20.3	3.544	4.434	6.9	23.1
5 21	17 29.16	-38 39.4	1.401	2.344	11.7	19.4	5 21	17 21.72	-23 15.9	3.463	4.423	4.7	22.9
5 31	17 19.52	-39 34.2	1.363	2.340	8.7	19.2	5 31	17 15.46	-23 9.7	3.409	4.411	2.3	22.7
6 10	17 8.19	-40 8.0	1.348	2.337	7.4	19.1	6 10	17 8.71	-23 1.9	3.384	4.400	0.3	22.5
6 20	16 56.79	-40 18.2	1.357	2.335	8.9	19.2	6 20	17 1.96	-22 53.0	3.389	4.388	2.8	22.8
6 30	16 47.04	-40 6.8	1.389	2.333	12.0	19.4	6 30	16 55.74	-22 43.7	3.423	4.376	5.2	22.9
7 10	16 40.26	-39 40.0	1.442	2.332	15.4	19.6	7 10	16 50.49	-22 35.1	3.483	4.363	7.5	23.0
43033	1999 VT ₂₉		6 9.0 19°97'	2.5/ 7.9	18		368252	2001 XN ₈₃		6 9.0 209°46'	1.3/ 8.9	18	
5 1	17 33.86	-19 25.9	2.145	2.961	13.5	18.3	5 1	17 39.84	-17 56.5	2.353	3.151	13.0	22.5
5 11	17 29.93	-18 25.6	2.063	2.964	10.6	18.1	5 11	17 34.66	-18 8.7	2.254	3.144	10.3	22.3
5 21	17 23.99	-17 22.6	2.004	2.967	7.3	17.9	5 21	17 27.33	-18 23.3	2.177	3.136	7.1	22.1
5 31	17 16.59	-16 19.2	1.970	2.970	4.0	17.7	5 31	17 18.32	-18 40.0	2.127	3.128	3.6	21.9
6 10	17 8.55	-15 18.4	1.964	2.973	2.7	17.6	6 10	17 8.39	-18 58.3	2.105	3.118	1.4	21.7
6 20	17 0.69	-14 23.4	1.986	2.977	5.3	17.8	6 20	16 58.41	-19 17.9	2.112	3.109	4.5	21.9
6 30	16 53.85	-13 37.1	2.034	2.981	8.6	18.0	6 30	16 49.29	-19 38.8	2.148	3.098	8.0	22.1
7 10	16 48.67	-13 1.3	2.107	2.985	11.7	18.2	7 10	16 41.79	-20 1.5	2.208	3.087	11.3	22.3
240350	2003 QW ₁₁₀		6 9.0 235°46'	5.3/ 8.2	17		161075	2002 LR ₃₈		6 9.0 23°31'	9.1/ 6.8	17	
5 1	17 39.33	- 9 57.1	1.873</										

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
252944	2002 PA ₄₃	6 9.0 331°61	2°1/ 8.5 18				225799	2001 VN ₄₁	6 9.0 302°72	1°5/ 9.3 17			
5 1	17 33.81	-21 16.0	1.291	2.141	18.8	20.1	5 1	17 37.01	-26 14.0	1.609	2.435	16.7	20.5
5 11	17 31.54	-20 37.9	1.210	2.130	14.9	19.8	5 11	17 33.66	-26 26.7	1.518	2.424	13.4	20.2
5 21	17 26.03	-19 55.6	1.148	2.120	10.4	19.5	5 21	17 27.30	-26 35.5	1.448	2.413	9.3	19.9
5 31	17 17.92	-19 10.6	1.107	2.111	5.3	19.2	5 31	17 18.53	-26 38.4	1.400	2.402	4.8	19.6
6 10	17 8.43	-18 26.0	1.089	2.102	2.3	19.0	6 10	17 8.41	-26 34.3	1.378	2.392	1.6	19.4
6 20	16 59.01	-17 45.5	1.094	2.094	6.9	19.2	6 20	16 58.26	-26 23.3	1.381	2.381	5.6	19.6
6 30	16 51.14	-17 13.1	1.123	2.087	12.1	19.5	6 30	16 49.44	-26 7.6	1.408	2.371	10.2	19.9
7 10	16 45.95	-16 51.9	1.171	2.081	16.7	19.7	7 10	16 43.04	-25 50.8	1.458	2.361	14.4	20.1
398232	2010 QH ₄	6 9.0 355°13	3°1/ 8.0 16				146239	2000 WN ₁₇₁	6 9.0 141°38	3°5/ 8.2 18			
5 1	17 32.58	-17 21.0	1.931	2.756	14.4	20.5	5 1	17 34.10	-9 59.8	3.048	3.835	10.6	21.1
5 11	17 29.25	-16 32.6	1.849	2.753	11.4	20.3	5 11	17 29.44	-9 43.3	2.969	3.847	8.5	21.0
5 21	17 23.72	-15 43.7	1.788	2.752	8.0	20.1	5 21	17 23.35	-9 31.3	2.914	3.858	6.2	20.8
5 31	17 16.55	-14 56.6	1.752	2.750	4.6	19.9	5 31	17 16.25	-9 25.1	2.885	3.869	4.2	20.7
6 10	17 8.60	-14 14.0	1.741	2.749	3.3	19.8	6 10	17 8.69	-9 25.7	2.885	3.879	3.5	20.7
6 20	17 0.79	-13 38.7	1.758	2.749	5.9	20.0	6 20	17 1.23	-9 33.5	2.914	3.889	4.9	20.8
6 30	16 54.02	-13 13.0	1.800	2.748	9.4	20.2	6 30	16 54.46	-9 48.4	2.970	3.898	7.0	20.9
7 10	16 49.03	-12 57.9	1.864	2.749	12.7	20.4	7 10	16 48.83	-10 10.1	3.052	3.907	9.1	21.1
303239	2004 PF ₅₄	6 9.0 344°33	0°2/ 8.9 17				192346	1995 ST ₃₁	6 9.0 214°04	5°7/ 7.5 18			
5 1	17 31.95	-23 53.9	1.034	1.901	21.1	20.0	5 1	17 36.13	-6 11.8	2.506	3.291	12.6	22.2
5 11	17 30.91	-23 40.4	0.962	1.891	16.8	19.7	5 11	17 31.47	-5 29.3	2.412	3.282	10.5	22.1
5 21	17 26.05	-23 21.7	0.906	1.883	11.7	19.4	5 21	17 25.00	-4 53.1	2.341	3.273	8.2	21.9
5 31	17 18.08	-22 57.5	0.870	1.875	5.7	19.0	5 31	17 17.15	-4 26.0	2.295	3.263	6.3	21.8
6 10	17 8.42	-22 28.9	0.854	1.869	0.7	18.6	6 10	17 8.59	-4 10.6	2.276	3.253	5.8	21.7
6 20	16 58.84	-21 58.7	0.860	1.865	7.1	19.0	6 20	17 0.04	-4 8.2	2.284	3.242	7.2	21.8
6 30	16 51.16	-21 31.2	0.887	1.861	13.0	19.4	6 30	16 52.25	-4 19.2	2.319	3.230	9.5	21.9
7 10	16 46.70	-21 10.8	0.932	1.859	18.3	19.6	7 10	16 45.84	-4 42.7	2.377	3.217	11.9	22.0
441340	2008 CG ₁₄₁	6 9.0 8°50	8°2/ 11.4 16				314087	2005 CV ₅₇	6 9.0 174°27	3°6/ 8.5 17			
5 1	17 40.96	-45 45.2	2.111	2.868	15.5	20.8	5 1	17 39.10	-14 49.2	1.635	2.455	16.8	21.2
5 11	17 36.57	-46 30.1	2.031	2.869	13.4	20.6	5 11	17 34.82	-14 32.7	1.556	2.456	13.4	21.0
5 21	17 29.11	-47 0.2	1.970	2.870	11.2	20.5	5 21	17 27.79	-14 20.5	1.496	2.457	9.5	20.8
5 31	17 19.29	-47 10.2	1.930	2.871	9.2	20.3	5 31	17 18.65	-14 14.1	1.461	2.458	5.5	20.5
6 10	17 8.30	-46 56.5	1.915	2.872	8.3	20.3	6 10	17 8.43	-14 14.7	1.451	2.459	3.6	20.4
6 20	16 57.54	-46 19.1	1.924	2.874	8.8	20.3	6 20	16 58.32	-14 23.2	1.466	2.459	6.6	20.6
6 30	16 48.35	-45 21.6	1.958	2.876	10.6	20.4	6 30	16 49.50	-14 40.0	1.507	2.459	10.7	20.8
7 10	16 41.72	-44 10.4	2.014	2.878	12.8	20.6	7 10	16 42.92	-15 4.8	1.571	2.458	14.5	21.0
419741	2010 VT ₇₃	6 9.0 165°32	1°9/ 9.2 17				16137	1999 XX ₁₁₆	6 9.0 287°87	2°0/ 9.3 18			
5 1	17 42.47	-26 30.3	2.013	2.814	14.8	21.8	5 1	17 38.88	-27 12.3	1.564	2.389	17.2	19.2
5 11	17 37.17	-27 1.1	1.929	2.819	11.7	21.6	5 11	17 35.54	-27 24.4	1.458	2.362	13.9	18.9
5 21	17 29.24	-27 29.2	1.866	2.823	8.2	21.4	5 21	17 28.92	-27 31.9	1.372	2.336	9.9	18.6
5 31	17 19.30	-27 52.1	1.828	2.827	4.3	21.2	5 31	17 19.49	-27 32.1	1.308	2.309	5.3	18.2
6 10	17 8.30	-28 7.7	1.818	2.831	1.9	21.0	6 10	17 8.31	-27 23.0	1.268	2.282	2.0	17.9
6 20	16 57.39	-28 15.4	1.836	2.833	4.9	21.2	6 20	16 56.79	-27 4.6	1.254	2.254	6.1	18.1
6 30	16 47.68	-28 16.5	1.881	2.835	8.7	21.4	6 30	16 46.53	-26 39.4	1.264	2.227	11.2	18.3
7 10	16 40.09	-28 13.6	1.950	2.836	12.2	21.6	7 10	16 38.85	-26 11.9	1.296	2.199	15.9	18.5
499251	2009 VK	6 9.0 185°13	10°1/ 9.9 17				270510	2002 FF ₂₇	6 9.0 98°08	7°7/ 8.2 18			
5 1	17 57.64	-54 15.9	2.744	3.417	14.1	22.2	5 1	17 36.66	-3 0.9	1.885	2.679	15.9	20.6
5 11	17 50.27	-55 57.3	2.661	3.417	12.7	22.0	5 11	17 32.29	-2 24.3	1.818	2.690	13.3	20.4
5 21	17 39.03	-57 25.4	2.598	3.417	11.5	21.9	5 21	17 25.71	-1 59.8	1.771	2.700	10.6	20.3
5 31	17 24.42	-58 32.2	2.557	3.415	10.5	21.9	5 31	17 17.51	-1 51.0	1.747	2.710	8.4	20.2
6 10	17 7.71	-59 11.5	2.541	3.413	10.1	21.8	6 10	17 8.57	-2 0.4	1.748	2.720	7.7	20.1
6 20	16 50.64	-59 20.5	2.549	3.410	10.5	21.9	6 20	16 59.83	-2 28.3	1.775	2.730	9.0	20.2
6 30	16 35.15	-59 1.0	2.581	3.407	11.5	21.9	6 30	16 52.19	-3 13.2	1.826	2.740	11.4	20.4
7 10	16 22.75	-58 19.4	2.634	3.402	12.8	22.0	7 10	16 46.38	-4 12.0	1.899	2.750	14.0	20.6
360500	2003 AK ₅	6 9.0 125°46	4°5/ 8.2 18				500851	2013 HQ ₈₄	6 9.0 318°46	1°3/ 8.8 17			
5 1	17 35.01	-8 37.3	2.522	3.315	12.4	21.2	5 1	17 32.94	-22 11.6	1.170	2.027	19.8	21.0
5 11	17 30.44	-8 14.3	2.448	3.327	10.0	21.1	5 11	17 31.45	-21 48.4	1.081	2.006	15.9	20.6
5 21	17 24.17	-7 57.6	2.396	3.338	7.5	21.0	5 21	17 26.40	-21 20.8	1.011	1.985	11.1	20.3
5 31	17 16.68	-7 48.8	2.369	3.350	5.3	20.8	5 31	17 18.33	-20 49.4	0.960	1.965	5.5	19.9
6 10	17 8.63	-7 49.4	2.370	3.361	4.6	20.8	6 10	17 8.45	-20 15.9	0.932	1.946	1.6	19.6
6 20	17 0.73	-7 59.9	2.399	3.371	6.0	20.9	6 20	16 58.39	-19 43.2	0.926	1.928	7.2	19.9
6 30	16 53.65	-8 20.0	2.455	3.382	8.3	21.1	6 30	16 49.90	-19 15.8	0.941	1.911	13.1	20.1
7 10	16 47.96	-8 48.9	2.535	3.392	10.7	21.2	7 10	16 44.39	-18 57.3	0.975	1.895	18.4	20.4
270293	2001 VE ₁₁₂	6 9.0 135°35	0°8/ 9.2 17				238731	2005 GD ₁₀₅	6 9.0 331°95	8°8/ 6.2 18			
5 1	17 40.20	-26 2.2	2.097	2.900	14.2	21.2	5 1	17 31.42	-5 23.7	1.712	2.529	16.3	19.8
5 11	17 35.07	-25 58.6	2.019	2.911	11.2	21.0	5 11	17 28.63	-3 57.1	1.631	2.518	13.7	19.6
5 21	17 27.59	-25 50.6	1.962	2.922	7.7	20.8	5 21	17 23.49	-2 37.5	1.571	2.508	11.1	19.4
5 31	17 18.41	-25 37.3	1.931	2.933	3.8	20.6	5 31	17 16.55	-1 31.2	1.533	2.498	9.1	19.2
6 10	17 8.44	-25 18.6	1.928	2.943	0.9	20.4	6 10	17 8.67	-0 43.7	1.519	2.489	8.9	19.2
6 20	16 58.71	-24 55.8	1.953	2.952	4.4	20.7	6 20	17 0.85	-0 18.7	1.529	2.480	10.6	19.3
6 30	16 50.17	-24 31.1	2.005	2.961	8.1	20.9	6 30	16 54.07	-0 17.5	1.562	2.472	13.2	19.4
7 10	16 43.59	-24 7.3	2.081	2.969	11.4	21.2	7 10	16 49.16	-0 38.3	1.614	2.464	16.1	19.6
486720	2014 CP	6 9.0 177°17	15°6/ 9.8 17				146858	2002 AA ₁₄₈	6 9.0 229°66	2°1/ 9.3 18			
5 1	17 44.51	+10 49.7	1.359	2.116	22								

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
438210	2005 <i>UL</i> ₂₂₈		6 9.0 281°58	0°5/ 8.9	18		435576	2008 <i>RO</i> ₁₀₅		6 9.0 183°53	2°4/ 9.5	18	
5 1	17 34.62	-21 32.6	2.330	3.140	12.7	22.0	5 1	17 39.49	-29 24.7	2.224	3.022	13.6	21.9
5 11	17 30.72	-21 29.6	2.224	3.122	10.1	21.8	5 11	17 34.66	-29 43.5	2.135	3.022	10.9	21.7
5 21	17 24.74	-21 25.6	2.141	3.104	6.9	21.5	5 21	17 27.46	-29 57.1	2.068	3.022	7.7	21.5
5 31	17 17.13	-21 20.5	2.083	3.085	3.4	21.3	5 31	17 18.45	-30 3.4	2.025	3.022	4.4	21.3
6 10	17 8.61	-21 14.6	2.052	3.067	0.7	21.0	6 10	17 8.52	-30 1.1	2.011	3.021	2.4	21.2
6 20	17 0.03	-21 8.3	2.049	3.048	4.3	21.3	6 20	16 58.67	-29 50.3	2.024	3.020	4.7	21.3
6 30	16 52.25	-21 2.9	2.074	3.030	7.9	21.4	6 30	16 49.90	-29 32.8	2.064	3.018	8.1	21.5
7 10	16 46.05	-20 59.8	2.123	3.011	11.2	21.6	7 10	16 43.03	-29 11.8	2.129	3.016	11.2	21.7
420488	2012 <i>EP</i> ₁₆		6 9.0 115°95	3°3/ 8.6	17		505428	2013 <i>RV</i> ₆₁		6 9.0 252°94	1°1/ 9.2	17	
5 1	17 38.99	-15 0.4	1.655	2.475	16.6	21.4	5 1	17 39.88	-25 49.5	1.907	2.717	15.1	22.3
5 11	17 34.62	-14 48.8	1.582	2.483	13.2	21.1	5 11	17 35.50	-25 55.1	1.804	2.700	12.1	22.1
5 21	17 27.57	-14 41.6	1.529	2.490	9.3	20.9	5 21	17 28.38	-25 57.0	1.722	2.683	8.4	21.8
5 31	17 18.52	-14 40.1	1.499	2.497	5.3	20.7	5 31	17 19.05	-25 53.6	1.664	2.665	4.3	21.5
6 10	17 8.48	-14 45.2	1.496	2.505	3.4	20.6	6 10	17 8.45	-25 43.9	1.633	2.647	1.1	21.2
6 20	16 58.63	-14 57.3	1.518	2.511	6.3	20.8	6 20	16 57.73	-25 28.3	1.629	2.628	5.1	21.5
6 30	16 50.10	-15 16.6	1.566	2.518	10.3	21.0	6 30	16 48.13	-25 9.0	1.651	2.609	9.4	21.7
7 10	16 43.78	-15 42.8	1.637	2.525	14.0	21.3	7 10	16 40.64	-24 49.1	1.697	2.590	13.3	21.9
309125	2006 <i>WY</i> ₂₀₃		6 9.0 43°64	1°0/ 8.9	17		54579	2000 <i>QA</i> ₁₆₅		6 9.0 172°56	3°3/10.1	18	
5 1	17 37.43	-20 8.7	1.513	2.345	17.4	20.5	5 1	17 38.02	-33 54.4	2.381	3.169	13.1	19.4
5 11	17 33.76	-20 15.2	1.442	2.352	13.7	20.2	5 11	17 33.37	-33 58.3	2.292	3.170	10.6	19.2
5 21	17 27.18	-20 22.9	1.391	2.359	9.4	20.0	5 21	17 26.47	-33 53.6	2.225	3.171	7.8	19.0
5 31	17 18.38	-20 31.4	1.363	2.367	4.6	19.7	5 31	17 17.92	-33 38.4	2.183	3.172	4.9	18.8
6 10	17 8.50	-20 40.3	1.360	2.375	1.1	19.5	6 10	17 8.59	-33 11.7	2.168	3.172	3.3	18.7
6 20	16 58.81	-20 49.6	1.382	2.383	5.6	19.8	6 20	16 59.42	-32 34.8	2.181	3.172	4.8	18.8
6 30	16 50.59	-21 0.3	1.429	2.391	10.2	20.1	6 30	16 51.34	-31 50.4	2.221	3.173	7.7	19.0
7 10	16 44.76	-21 13.5	1.498	2.400	14.2	20.4	7 10	16 45.09	-31 2.4	2.286	3.173	10.6	19.2
347936	2003 <i>FK</i> ₆₆		6 9.0 69°99	2°0/ 9.3	18		36393	2000 <i>OM</i> ₄₂		6 9.0 234°45	4°0/ 7.9	18 R	
5 1	17 36.88	-27 38.6	2.205	3.010	13.5	20.6	5 1	17 36.93	-13 46.1	2.159	2.965	13.7	19.9
5 11	17 32.56	-28 6.2	2.123	3.016	10.7	20.4	5 11	17 32.52	-13 3.9	2.062	2.953	11.1	19.7
5 21	17 25.98	-28 30.4	2.064	3.022	7.5	20.2	5 21	17 25.95	-12 23.4	1.986	2.940	8.0	19.5
5 31	17 17.71	-28 49.1	2.030	3.028	4.1	20.0	5 31	17 17.72	-11 47.0	1.935	2.927	5.1	19.3
6 10	17 8.58	-29 0.8	2.022	3.034	2.0	19.9	6 10	17 8.61	-11 17.0	1.912	2.913	4.1	19.2
6 20	16 59.54	-29 5.3	2.043	3.040	4.5	20.1	6 20	16 59.49	-10 55.7	1.916	2.899	6.3	19.3
6 30	16 51.56	-29 3.8	2.090	3.046	7.9	20.3	6 30	16 51.28	-10 44.6	1.947	2.885	9.5	19.5
7 10	16 45.38	-28 58.6	2.162	3.052	11.0	20.5	7 10	16 44.72	-10 44.3	2.002	2.869	12.7	19.6
37527	1971 <i>UJ</i> ₂₁		6 9.0 227°03	3°2/ 9.4	18		195069	2002 <i>CN</i> ₉₅		6 9.0 93°82	2°4/ 9.5	17	
5 1	17 42.27	-31 4.9	2.464	3.247	12.9	20.3	5 1	17 40.42	-29 13.8	1.876	2.683	15.5	20.5
5 11	17 36.87	-31 44.7	2.357	3.234	10.4	20.1	5 11	17 35.61	-29 26.7	1.805	2.698	12.3	20.3
5 21	17 29.05	-32 20.5	2.273	3.220	7.6	19.9	5 21	17 28.16	-29 33.3	1.755	2.713	8.6	20.1
5 31	17 19.29	-32 48.9	2.215	3.205	4.7	19.7	5 31	17 18.77	-29 31.5	1.730	2.727	4.8	19.9
6 10	17 8.40	-33 7.4	2.185	3.189	3.2	19.5	6 10	17 8.51	-29 20.3	1.731	2.742	2.4	19.7
6 20	16 57.36	-33 15.0	2.183	3.173	5.1	19.6	6 20	16 58.54	-29 0.5	1.758	2.756	5.1	20.0
6 30	16 47.22	-33 12.4	2.210	3.155	8.1	19.8	6 30	16 49.96	-28 35.0	1.813	2.770	8.8	20.2
7 10	16 38.88	-33 2.4	2.262	3.138	11.1	19.9	7 10	16 43.60	-28 7.5	1.891	2.784	12.2	20.4
357847	2005 <i>UJ</i> ₁₉₁		6 9.0 165°03	0°7/ 8.8	18		204758	2006 <i>JS</i> ₃₉		6 9.0 176°46	1°1/ 8.9	17	
5 1	17 34.36	-21 25.1	2.719	3.521	11.3	21.9	5 1	17 36.91	-19 23.0	2.082	2.894	14.0	20.9
5 11	17 29.99	-21 9.7	2.631	3.524	8.9	21.7	5 11	17 32.59	-19 25.5	1.997	2.895	11.0	20.7
5 21	17 23.91	-20 52.9	2.566	3.527	6.1	21.6	5 21	17 26.02	-19 29.0	1.933	2.896	7.6	20.5
5 31	17 16.61	-20 35.0	2.527	3.529	3.0	21.4	5 31	17 17.75	-19 33.4	1.894	2.896	3.8	20.2
6 10	17 8.71	-20 16.6	2.517	3.531	0.8	21.2	6 10	17 8.62	-19 38.7	1.882	2.896	1.2	20.1
6 20	17 0.92	-19 58.7	2.535	3.533	3.7	21.4	6 20	16 59.55	-19 45.2	1.898	2.896	4.7	20.3
6 30	16 53.91	-19 42.7	2.582	3.534	6.7	21.6	6 30	16 51.49	-19 53.6	1.941	2.896	8.4	20.5
7 10	16 48.26	-19 29.9	2.654	3.536	9.5	21.8	7 10	16 45.22	-20 4.6	2.007	2.896	11.8	20.7
237171	2008 <i>UW</i> ₁₄₈		6 9.0 192°72	0°3/ 9.1	18		224199	2005 <i>RS</i> ₂₅		6 9.0 330°05	6°3/ 6.6	18	
5 1	17 37.55	-24 15.0	2.151	2.959	13.7	21.3	5 1	17 33.30	-15 57.0	1.340	2.186	18.4	19.2
5 11	17 33.08	-24 13.2	2.062	2.958	10.8	21.1	5 11	17 30.88	-14 14.1	1.259	2.174	14.8	18.9
5 21	17 26.34	-24 8.4	1.995	2.957	7.4	20.9	5 21	17 25.44	-12 26.4	1.197	2.162	10.9	18.6
5 31	17 17.89	-24 0.2	1.953	2.955	3.6	20.7	5 31	17 17.65	-10 40.2	1.157	2.151	7.3	18.4
6 10	17 8.57	-23 48.3	1.939	2.954	0.5	20.4	6 10	17 8.64	-9 3.3	1.141	2.141	6.6	18.3
6 20	16 59.34	-23 33.7	1.952	2.952	4.4	20.7	6 20	16 59.72	-7 43.4	1.149	2.131	9.6	18.5
6 30	16 51.16	-23 18.1	1.992	2.949	8.1	20.9	6 30	16 52.24	-6 46.0	1.180	2.122	13.8	18.7
7 10	16 44.78	-23 3.7	2.057	2.947	11.5	21.1	7 10	16 47.21	-6 12.8	1.230	2.114	17.9	18.9
22815	Sewell		6 9.0 284°03	4°4/ 8.0	18		370923	2005 <i>NY</i> ₆₈		6 9.0 323°53	1°9/ 9.7	18	
5 1	17 36.36	-15 40.1	1.530	2.361	17.2	18.9	5 1	17 32.39	-30 14.5	2.458	3.262	12.3	20.1
5 11	17 33.10	-14 54.6	1.436	2.344	13.9	18.6	5 11	17 29.04	-30 6.6	2.343	3.234	9.9	19.8
5 21	17 26.93	-14 9.5	1.362	2.326	10.0	18.4	5 21	17 23.64	-29 51.8	2.250	3.207	7.0	19.6
5 31	17 18.39	-13 27.8	1.311	2.308	6.0	18.1	5 31	17 16.63	-29 29.1	2.183	3.180	4.0	19.4
6 10	17 8.50	-12 52.9	1.284	2.290	4.5	17.9	6 10	17 8.75	-28 58.1	2.143	3.154	1.9	19.2
6 20	16 58.52	-12 28.1	1.282	2.272	7.7	18.1	6 20	17 0.81	-28 19.9	2.130	3.128	4.2	19.3
6 30	16 49.76	-12 16.0	1.304	2.254	12.1	18.3	6 30	16 53.69	-27 37.0	2.144	3.102	7.5	19.5
7 10	16 43.31	-12 17.7	1.347	2.237	16.3	18.5	7 10	16 48.14	-26 52.5	2.183	3.077	10.7	19.6
34110	2000 <i>PX</i> ₂₄		6 9.0 248°39	3°7/ 8.2	18 R		66701	1999 <i>TN</i> ₈₆		6 9.0 199°07			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
97303	1999 <i>XL</i> ₁₉₀		6 9.0 206°65	2°6/ 9.7 18			253992	2004 <i>EC</i> ₆₂		6 9.1 87°46	1°8/ 8.7 17		
5 1	17 39.35	-31 6.9	2.326	3.118	13.3	20.0	5 1	17 39.48	-19 23.7	1.626	2.449	16.8	21.5
5 11	17 34.49	-31 14.6	2.231	3.114	10.7	19.8	5 11	17 35.01	-19 8.0	1.560	2.464	13.2	21.3
5 21	17 27.32	-31 15.6	2.158	3.109	7.6	19.6	5 21	17 27.82	-18 52.7	1.514	2.479	9.0	21.1
5 31	17 18.39	-31 7.9	2.110	3.104	4.5	19.4	5 31	17 18.66	-18 38.2	1.492	2.494	4.6	20.9
6 10	17 8.58	-30 50.4	2.090	3.099	2.6	19.2	6 10	17 8.62	-18 25.7	1.496	2.509	1.9	20.7
6 20	16 58.83	-30 24.0	2.098	3.093	4.7	19.4	6 20	16 58.89	-18 16.3	1.526	2.524	5.6	21.0
6 30	16 50.15	-29 50.8	2.133	3.087	7.9	19.6	6 30	16 50.61	-18 11.6	1.581	2.538	9.8	21.3
7 10	16 43.31	-29 14.6	2.194	3.080	11.0	19.7	7 10	16 44.60	-18 12.8	1.659	2.553	13.6	21.5
468071	2013 <i>SC</i> ₇₅		6 9.0 341°26	1°3/ 9.1 17			84855	2003 <i>AR</i> ₄₅		6 9.1 220°26	0°2/ 9.1 18		
5 1	17 29.56	-23 33.2	1.069	1.938	20.5	20.5	5 1	17 39.12	-22 26.2	1.759	2.578	15.9	19.5
5 11	17 29.11	-24 2.1	0.990	1.921	16.4	20.2	5 11	17 34.92	-22 42.5	1.674	2.575	12.6	19.3
5 21	17 25.00	-24 31.6	0.928	1.905	11.5	19.8	5 21	17 27.97	-22 58.6	1.608	2.573	8.7	19.1
5 31	17 17.75	-24 59.5	0.886	1.891	5.8	19.5	5 31	17 18.86	-23 13.1	1.567	2.570	4.2	18.8
6 10	17 8.63	-25 23.3	0.864	1.879	1.4	19.1	6 10	17 8.59	-23 25.1	1.552	2.567	0.5	18.5
6 20	16 59.33	-25 41.5	0.863	1.868	7.0	19.5	6 20	16 58.34	-23 34.1	1.563	2.564	5.1	18.8
6 30	16 51.73	-25 54.8	0.884	1.859	12.8	19.7	6 30	16 49.33	-23 41.2	1.601	2.561	9.5	19.1
7 10	16 47.29	-26 5.9	0.922	1.852	18.1	20.0	7 10	16 42.52	-23 48.1	1.661	2.557	13.4	19.3
438143	2005 <i>SW</i> ₄₃		6 9.1 263°59	0°7/ 9.2 18			357901	2005 <i>VT</i> ₄₀		6 9.1 252°92	2°6/ 8.2 18		
5 1	17 35.40	-25 34.0	2.417	3.221	12.5	21.6	5 1	17 33.60	-16 42.8	2.501	3.308	12.0	21.3
5 11	17 31.27	-25 34.2	2.316	3.209	9.9	21.4	5 11	17 29.61	-16 8.0	2.405	3.299	9.6	21.1
5 21	17 25.08	-25 31.1	2.237	3.197	6.8	21.2	5 21	17 23.81	-15 33.3	2.332	3.290	6.7	20.9
5 31	17 17.32	-25 23.8	2.184	3.185	3.4	20.9	5 31	17 16.66	-15 0.3	2.284	3.282	3.9	20.7
6 10	17 8.71	-25 12.3	2.158	3.173	0.8	20.7	6 10	17 8.83	-14 30.8	2.265	3.273	2.6	20.6
6 20	17 0.10	-24 57.0	2.161	3.160	4.0	20.9	6 20	17 1.04	-14 6.2	2.274	3.264	4.9	20.8
6 30	16 52.35	-24 39.6	2.191	3.148	7.5	21.1	6 30	16 54.03	-13 48.3	2.310	3.254	7.9	20.9
7 10	16 46.19	-24 22.2	2.246	3.135	10.7	21.3	7 10	16 48.43	-13 37.9	2.370	3.245	10.7	21.1
157620	2005 <i>WR</i> ₈₉		6 9.1 267°74	0°3/ 9.0 18			464474	2016 <i>BB</i> ₄₉		6 9.1 359°29	4°7/ 9.8 17		
5 1	17 40.17	-18 57.7	1.776	2.591	15.9	20.0	5 1	17 35.45	-31 25.5	1.083	1.935	21.4	20.7
5 11	17 35.78	-19 40.8	1.686	2.586	12.6	19.7	5 11	17 33.85	-31 52.4	1.015	1.932	17.4	20.4
5 21	17 28.61	-20 29.1	1.618	2.582	8.7	19.5	5 21	17 28.19	-32 9.0	0.964	1.930	12.6	20.1
5 31	17 19.20	-21 20.7	1.574	2.577	4.3	19.2	5 31	17 19.23	-32 10.4	0.932	1.930	7.6	19.8
6 10	17 8.51	-22 13.1	1.557	2.572	0.5	18.9	6 10	17 8.56	-31 53.6	0.921	1.930	4.7	19.7
6 20	16 57.72	-23 3.8	1.567	2.567	5.2	19.3	6 20	16 58.09	-31 19.5	0.931	1.931	7.8	19.8
6 30	16 48.06	-23 51.7	1.603	2.562	9.6	19.5	6 30	16 49.75	-30 33.7	0.963	1.934	12.8	20.1
7 10	16 40.57	-24 36.6	1.664	2.557	13.5	19.7	7 10	16 44.87	-29 43.9	1.014	1.937	17.5	20.4
471839	2012 <i>XN</i> ₈₄		6 9.1 213°18	1°0/ 8.8 18			37373	2001 <i>VM</i> ₃₄		6 9.1 272°27	0°7/ 8.9 18		
5 1	17 36.35	-19 23.0	2.696	3.494	11.5	22.6	5 1	17 37.63	-21 56.5	1.816	2.635	15.4	18.5
5 11	17 31.67	-19 24.7	2.596	3.487	9.1	22.4	5 11	17 33.78	-21 47.4	1.715	2.617	12.3	18.3
5 21	17 25.18	-19 27.1	2.520	3.479	6.2	22.2	5 21	17 27.25	-21 36.4	1.635	2.600	8.5	18.0
5 31	17 17.32	-19 30.0	2.470	3.471	3.1	22.0	5 31	17 18.56	-21 23.4	1.578	2.581	4.2	17.7
6 10	17 8.73	-19 33.4	2.449	3.463	1.1	21.8	6 10	17 8.63	-21 8.6	1.548	2.563	0.9	17.4
6 20	17 0.13	-19 37.7	2.457	3.454	3.9	22.0	6 20	16 58.59	-20 53.2	1.545	2.544	5.3	17.7
6 30	16 52.26	-19 43.4	2.493	3.444	7.0	22.2	6 30	16 49.63	-20 39.3	1.567	2.526	9.8	17.9
7 10	16 45.77	-19 51.2	2.555	3.434	9.9	22.4	7 10	16 42.77	-20 29.1	1.612	2.507	13.8	18.1
141207	2001 <i>XF</i> ₂₁₀		6 9.1 22°79	10°7/13.5 18			429594	2011 <i>EB</i> ₆₈		6 9.1 8°80	9°3/10.3 17		
5 1	17 47.48	+ 8 47.3	1.046	1.833	26.3	17.1	5 1	17 41.33	-41 24.5	1.549	2.344	18.7	20.8
5 11	17 42.25	+ 7 11.7	0.996	1.855	22.5	16.9	5 11	17 37.97	-42 45.7	1.476	2.345	15.9	20.6
5 21	17 33.23	+ 4 52.5	0.959	1.879	18.2	16.7	5 21	17 30.79	-43 54.3	1.422	2.346	13.0	20.4
5 31	17 21.37	+ 1 47.9	0.943	1.905	13.8	16.6	5 31	17 20.47	-44 41.9	1.389	2.348	10.5	20.2
6 10	17 8.31	- 1 54.2	0.951	1.933	10.9	16.5	6 10	17 8.43	-45 2.4	1.378	2.350	9.3	20.2
6 20	16 55.84	- 5 57.2	0.985	1.962	11.5	16.6	6 20	16 56.46	-44 53.7	1.390	2.353	10.3	20.2
6 30	16 45.62	-10 2.2	1.045	1.994	14.6	16.9	6 30	16 46.41	-44 19.4	1.425	2.356	12.8	20.4
7 10	16 38.71	-13 53.5	1.129	2.026	18.2	17.2	7 10	16 39.60	-43 27.5	1.481	2.360	15.7	20.6
192660	1999 <i>RD</i> ₁₅₀		6 9.1 237°60	6°0/10.3 18			252815	2002 <i>GR</i> ₄₄		6 9.1 89°07	0°3/ 8.9 18		
5 1	17 42.73	-39 29.4	2.237	3.007	14.4	20.5	5 1	17 40.38	-24 2.7	1.467	2.296	18.0	20.0
5 11	17 37.71	-40 6.6	2.138	2.996	12.1	20.3	5 11	17 36.15	-23 42.0	1.399	2.306	14.2	19.7
5 21	17 29.87	-40 33.5	2.059	2.983	9.5	20.1	5 21	17 28.84	-23 16.8	1.349	2.316	9.7	19.5
5 31	17 19.78	-40 45.5	2.003	2.971	7.1	19.9	5 31	17 19.23	-22 46.8	1.323	2.326	4.7	19.2
6 10	17 8.46	-40 39.4	1.974	2.958	6.0	19.8	6 10	17 8.58	-22 13.3	1.321	2.336	0.6	19.0
6 20	16 57.11	-40 14.5	1.972	2.944	7.0	19.8	6 20	16 58.28	-21 38.8	1.345	2.346	5.7	19.4
6 30	16 47.01	-39 33.3	1.996	2.930	9.5	20.0	6 30	16 49.63	-21 6.8	1.394	2.356	10.4	19.6
7 10	16 39.15	-38 41.1	2.043	2.916	12.3	20.1	7 10	16 43.57	-20 40.6	1.465	2.366	14.6	19.9
137554	1999 <i>VA</i> ₈₆		6 9.1 303°48	3°9/ 9.3 18			186830	2004 <i>FW</i> ₆₁		6 9.1 300°48	5°0/ 8.2 18		
5 1	17 37.86	-28 44.9	1.396	2.229	18.5	20.0	5 1	17 35.17	-13 1.5	1.535	2.366	17.2	19.5
5 11	17 35.38	-29 28.8	1.292	2.199	15.1	19.7	5 11	17 32.12	-12 28.6	1.446	2.351	14.0	19.3
5 21	17 29.28	-30 10.7	1.207	2.170	11.0	19.4	5 21	17 26.25	-12 0.2	1.375	2.336	10.2	19.0
5 31	17 19.93	-30 45.9	1.143	2.141	6.5	19.0	5 31	17 18.11	-11 39.5	1.327	2.321	6.5	18.7
6 10	17 8.41	-31 9.7	1.102	2.112	3.9	18.8	6 10	17 8.68	-11 29.2	1.303	2.307	5.1	18.6
6 20	16 56.32	-31 19.1	1.085	2.083	7.4	18.9	6 20	16 59.17	-11 31.4	1.304	2.293	7.8	18.7
6 30	16 45.55	-31 15.1	1.091	2.054	12.5	19.1	6 30	16 50.85	-11 46.8	1.329	2.279	11.9	18.9
7 10	16 37.71	-31 2.1	1.118	2.026	17.4	19.3	7 10	16 44.76	-12 14.9	1.374	2.265	15.9	19.1
247832	2003 <i>SW</i> ₂₄₅		6 9.1 304°31	4°3/ 8.0 17			352560	2008 <i>CH</i> ₂₁					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
335115	2004 <i>TG</i> ₂₀₈	6	9.1 208°89	5°4/ 7.2 18			498306	2007 <i>VU</i> ₁₁₇	6	9.1 205°25	1°2/ 8.8 17		
5 1	17 36.23	-10 40.5	2.185	2.987	13.7	21.0	5 1	17 40.23	-22 13.5	1.703	2.522	16.3	21.9
5 11	17 31.84	-9 35.0	2.097	2.983	11.2	20.8	5 11	17 35.78	-21 43.5	1.617	2.519	12.9	21.7
5 21	17 25.41	-8 32.3	2.032	2.978	8.4	20.6	5 21	17 28.52	-21 9.7	1.551	2.516	8.9	21.5
5 31	17 17.47	-7 36.0	1.992	2.973	6.0	20.4	5 31	17 19.12	-20 32.7	1.509	2.512	4.4	21.2
6 10	17 8.77	-6 49.6	1.979	2.967	5.5	20.4	6 10	17 8.62	-19 54.0	1.493	2.507	1.3	21.0
6 20	17 0.16	-6 15.8	1.993	2.961	7.3	20.5	6 20	16 58.25	-19 16.2	1.504	2.503	5.6	21.2
6 30	16 52.47	-5 56.3	2.033	2.955	10.0	20.6	6 30	16 49.22	-18 42.5	1.541	2.498	10.1	21.5
7 10	16 46.39	-5 51.2	2.096	2.948	12.8	20.8	7 10	16 42.45	-18 15.9	1.601	2.492	14.1	21.7
262874	2007 <i>BV</i> ₅₈	6	9.1 164°45	3°2/ 8.5 17			106652	2000 <i>WV</i> ₁₄₀	6	9.1 149°39	0°1/ 9.0 18		
5 1	17 38.47	-14 36.4	2.074	2.879	14.2	21.6	5 1	17 35.21	-22 31.6	2.733	3.533	11.3	20.2
5 11	17 33.71	-14 17.3	1.992	2.884	11.3	21.4	5 11	17 30.70	-22 32.4	2.647	3.538	8.9	20.1
5 21	17 26.74	-14 1.4	1.931	2.888	8.0	21.2	5 21	17 24.47	-22 32.0	2.584	3.544	6.1	19.9
5 31	17 18.13	-13 50.0	1.896	2.892	4.7	21.0	5 31	17 16.97	-22 29.9	2.547	3.549	2.9	19.7
6 10	17 8.71	-13 44.4	1.888	2.895	3.3	20.9	6 10	17 8.86	-22 26.2	2.539	3.554	0.3	19.5
6 20	16 59.40	-13 45.4	1.908	2.897	5.7	21.1	6 20	17 0.84	-22 21.4	2.560	3.559	3.5	19.7
6 30	16 51.14	-13 53.7	1.954	2.899	9.0	21.3	6 30	16 53.62	-22 16.5	2.609	3.563	6.6	19.9
7 10	16 44.65	-14 9.2	2.024	2.901	12.2	21.5	7 10	16 47.77	-22 12.7	2.683	3.567	9.3	20.1
352349	2007 <i>VG</i> ₁₁₀	6	9.1 247°36	0°2/ 9.1 16			355214	2006 <i>YK</i> ₄₈	6	9.1 294°32	3°5/ 9.9 18		
5 1	17 36.35	-24 6.7	2.186	2.995	13.5	22.0	5 1	17 36.70	-33 26.6	2.216	3.013	13.7	20.4
5 11	17 32.19	-24 3.8	2.092	2.988	10.7	21.8	5 11	17 32.72	-33 36.3	2.116	2.999	11.2	20.2
5 21	17 25.81	-23 58.2	2.019	2.981	7.3	21.5	5 21	17 26.31	-33 37.8	2.037	2.985	8.2	20.0
5 31	17 17.72	-23 49.2	1.972	2.974	3.6	21.3	5 31	17 18.03	-33 28.5	1.982	2.972	5.2	19.8
6 10	17 8.74	-23 36.9	1.952	2.967	0.4	21.0	6 10	17 8.74	-33 7.3	1.953	2.958	3.5	19.6
6 20	16 59.80	-23 22.1	1.960	2.960	4.3	21.3	6 20	16 59.47	-32 34.6	1.952	2.945	5.2	19.7
6 30	16 51.83	-23 6.4	1.995	2.952	8.1	21.5	6 30	16 51.26	-31 53.2	1.977	2.931	8.4	19.9
7 10	16 45.61	-22 52.0	2.054	2.945	11.4	21.7	7 10	16 44.97	-31 7.1	2.027	2.918	11.5	20.1
443958	2003 <i>HW</i> ₃₆	6	9.1 334°99	13°6/ 2.7 15			505934	2015 <i>FN</i> ₂₃	6	9.1 264°84	5°1/ 8.9 18		
5 1	17 29.15	+7 9.6	1.788	2.565	17.2	20.9	5 1	17 43.02	-31 43.7	1.913	2.711	15.5	20.6
5 11	17 26.85	+9 9.4	1.713	2.548	15.6	20.8	5 11	17 38.38	-33 5.9	1.820	2.702	12.7	20.4
5 21	17 22.33	+10 54.5	1.657	2.530	14.3	20.6	5 21	17 30.67	-34 25.9	1.748	2.694	9.5	20.2
5 31	17 16.08	+12 16.3	1.621	2.514	13.7	20.5	5 31	17 20.37	-35 38.1	1.701	2.686	6.4	20.0
6 10	17 8.91	+13 8.0	1.606	2.499	13.9	20.5	6 10	17 8.49	-36 36.8	1.680	2.677	5.1	19.9
6 20	17 1.72	+13 25.7	1.612	2.484	14.9	20.5	6 20	16 56.32	-37 18.4	1.686	2.669	7.0	20.0
6 30	16 55.47	+13 9.1	1.636	2.471	16.6	20.6	6 30	16 45.31	-37 42.9	1.719	2.660	10.3	20.2
7 10	16 50.96	+12 21.6	1.677	2.458	18.4	20.7	7 10	16 36.67	-37 53.5	1.774	2.652	13.6	20.3
235117	2003 <i>QL</i> ₆	6	9.1 262°64	3°3/ 9.7 18			270339	2001 <i>XN</i> ₁₉₅	6	9.1 83°41	4°6/ 8.9 17		
5 1	17 39.57	-31 34.0	2.127	2.924	14.2	21.0	5 1	17 39.42	-9 47.1	1.803	2.609	16.0	20.6
5 11	17 35.16	-31 57.6	2.021	2.906	11.5	20.8	5 11	17 34.59	-9 45.2	1.739	2.628	12.9	20.5
5 21	17 28.13	-32 15.2	1.937	2.888	8.4	20.5	5 21	17 27.37	-9 52.3	1.696	2.647	9.4	20.3
5 31	17 18.98	-32 23.7	1.877	2.869	5.2	20.3	5 31	17 18.43	-10 9.6	1.677	2.666	6.1	20.1
6 10	17 8.61	-32 21.0	1.843	2.850	3.3	20.1	6 10	17 8.73	-10 37.6	1.684	2.685	4.7	20.1
6 20	16 58.12	-32 6.7	1.837	2.830	5.4	20.2	6 20	16 59.28	-11 15.3	1.718	2.703	6.7	20.2
6 30	16 48.67	-31 42.7	1.858	2.811	8.9	20.4	6 30	16 51.07	-12 1.5	1.778	2.721	9.9	20.5
7 10	16 41.25	-31 12.8	1.903	2.791	12.3	20.6	7 10	16 44.86	-12 54.1	1.862	2.739	13.1	20.7
480530	2015 <i>MT</i> ₁₄	6	9.1 313°22	7°0/ 7.3 16			191657	2004 <i>PK</i> ₈₄	6	9.1 232°36	2°6/ 8.4 18		
5 1	17 32.43	-4 45.6	2.152	2.951	14.0	21.1	5 1	17 37.84	-15 35.2	2.484	3.281	12.4	21.7
5 11	17 28.92	-3 53.4	2.069	2.944	11.7	20.9	5 11	17 33.04	-15 16.4	2.378	3.266	9.9	21.5
5 21	17 23.46	-3 9.2	2.006	2.938	9.3	20.8	5 21	17 26.25	-14 59.1	2.294	3.250	7.0	21.3
5 31	17 16.54	-2 37.0	1.968	2.932	7.5	20.6	5 31	17 17.94	-14 44.6	2.237	3.233	4.0	21.1
6 10	17 8.88	-2 19.8	1.954	2.926	7.0	20.6	6 10	17 8.77	-14 33.9	2.207	3.215	2.7	20.9
6 20	17 1.26	-2 19.4	1.967	2.920	8.4	20.7	6 20	16 59.55	-14 28.0	2.207	3.196	5.0	21.1
6 30	16 54.50	-2 35.8	2.004	2.915	10.7	20.8	6 30	16 51.08	-14 27.9	2.234	3.177	8.2	21.2
7 10	16 49.26	-3 7.6	2.063	2.910	13.2	21.0	7 10	16 44.08	-14 34.1	2.286	3.157	11.2	21.4
423005	2003 <i>SS</i> ₂₆₃	6	9.1 270°36	3°5/ 9.4 18			102662	1999 <i>VZ</i> ₅₈	6	9.1 183°15	3°5/ 8.0 18		
5 1	17 41.31	-29 16.8	1.628	2.444	17.1	21.3	5 1	17 38.14	-18 8.5	1.619	2.444	16.7	19.8
5 11	17 37.44	-29 55.0	1.528	2.425	13.9	21.0	5 11	17 34.10	-17 9.8	1.540	2.444	13.3	19.6
5 21	17 30.24	-30 29.6	1.447	2.405	10.0	20.8	5 21	17 27.34	-16 9.0	1.481	2.444	9.3	19.3
5 31	17 20.23	-30 56.5	1.389	2.386	5.9	20.5	5 31	17 18.53	-15 9.0	1.445	2.444	5.3	19.1
6 10	17 8.47	-31 11.8	1.356	2.366	3.5	20.3	6 10	17 8.72	-14 13.6	1.436	2.444	3.7	19.0
6 20	16 56.42	-31 13.8	1.349	2.345	6.5	20.4	6 20	16 59.10	-13 26.5	1.453	2.444	6.8	19.2
6 30	16 45.67	-31 4.0	1.367	2.325	11.0	20.6	6 30	16 50.84	-12 51.1	1.494	2.443	10.9	19.4
7 10	16 37.54	-30 46.8	1.407	2.304	15.3	20.8	7 10	16 44.82	-12 29.1	1.558	2.443	14.7	19.6
317876	2003 <i>UW</i> ₇₈	6	9.1 230°68	2°1/ 9.6 17			425626	2010 <i>VP</i> ₈₉	6	9.1 218°88	0°8/ 9.2 17		
5 1	17 38.13	-29 16.6	2.023	2.829	14.5	21.1	5 1	17 40.86	-25 11.7	1.935	2.743	15.0	22.6
5 11	17 33.85	-29 20.7	1.934	2.826	11.6	20.9	5 11	17 36.14	-25 17.2	1.840	2.735	12.0	22.3
5 21	17 27.06	-29 18.4	1.866	2.823	8.2	20.7	5 21	17 28.75	-25 19.5	1.766	2.727	8.3	22.1
5 31	17 18.36	-29 8.1	1.822	2.820	4.5	20.4	5 31	17 19.26	-25 17.1	1.717	2.719	4.2	21.8
6 10	17 8.69	-28 49.0	1.805	2.817	2.1	20.3	6 10	17 8.64	-25 9.2	1.695	2.709	0.9	21.6
6 20	16 59.12	-28 22.0	1.816	2.814	4.8	20.5	6 20	16 58.00	-24 56.3	1.700	2.700	4.9	21.8
6 30	16 50.73	-27 49.8	1.852	2.810	8.6	20.7	6 30	16 48.52	-24 40.4	1.732	2.689	9.1	22.1
7 10	16 44.35	-27 16.0	1.913	2.807	12.0	20.9	7 10	16 41.15	-24 24.4	1.787	2.678	12.9	22.3
15420	Aedouglass	6	9.1 331°31	2°3/ 9.5 18			95788	2003 <i>FL</i> ₁₂	6	9.1 2°05	1°2/ 9.		

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
248375	2005 RA ₁₉	6 9.1 302°92	1°9/ 8.7 18				418032	2007 UQ ₁₁₉	6 9.1 239°02	3°9/ 8.2 16			
5 1	17 33.82	-18 26.2	2.049	2.868	13.9	20.7	5 1	17 38.61	-16 15.4	1.612	2.436	16.8	22.7
5 11	17 30.38	-18 11.1	1.949	2.851	11.1	20.5	5 11	17 34.65	-15 31.0	1.525	2.428	13.5	22.4
5 21	17 24.70	-17 56.6	1.870	2.834	7.7	20.3	5 21	17 27.87	-14 46.9	1.457	2.419	9.6	22.2
5 31	17 17.26	-17 43.3	1.816	2.817	4.1	20.0	5 31	17 18.89	-14 5.8	1.413	2.411	5.7	21.9
6 10	17 8.85	-17 32.4	1.788	2.800	2.0	19.8	6 10	17 8.73	-13 30.6	1.395	2.402	4.0	21.8
6 20	17 0.37	-17 24.9	1.787	2.784	5.1	20.0	6 20	16 58.61	-13 4.3	1.402	2.393	7.1	22.0
6 30	16 52.79	-17 22.1	1.812	2.767	8.9	20.2	6 30	16 49.76	-12 49.2	1.434	2.383	11.3	22.2
7 10	16 46.94	-17 25.1	1.861	2.751	12.4	20.4	7 10	16 43.16	-12 46.4	1.488	2.373	15.3	22.4
294479	2007 WC ₂	6 9.1 264°15	3°0/ 9.4 17				510104	2010 RE ₅₀	6 9.1 256°75	4°1/ 9.9 18			
5 1	17 38.55	-29 28.6	2.090	2.893	14.2	20.7	5 1	17 37.74	-34 47.3	2.531	3.314	12.6	21.5
5 11	17 34.21	-30 8.6	2.003	2.893	11.4	20.5	5 11	17 33.29	-35 20.8	2.432	3.305	10.3	21.3
5 21	17 27.37	-30 44.7	1.938	2.892	8.2	20.3	5 21	17 26.61	-35 47.5	2.356	3.296	7.7	21.1
5 31	17 18.56	-31 13.9	1.898	2.892	4.8	20.1	5 31	17 18.18	-36 4.6	2.305	3.287	5.3	20.9
6 10	17 8.72	-31 33.7	1.884	2.892	3.0	20.0	6 10	17 8.81	-36 9.9	2.281	3.277	4.1	20.8
6 20	16 58.88	-31 43.4	1.897	2.891	5.2	20.1	6 20	16 59.40	-36 3.0	2.284	3.268	5.3	20.9
6 30	16 50.14	-31 43.9	1.938	2.891	8.6	20.3	6 30	16 50.93	-35 45.4	2.315	3.258	7.9	21.0
7 10	16 43.39	-31 38.1	2.002	2.891	11.8	20.5	7 10	16 44.19	-35 20.1	2.370	3.249	10.6	21.2
130494	2000 QH ₁₂₀	6 9.1 333°87	5°9/ 7.8 18				432829	2011 HR ₁₃	6 9.1 29°68	8°0/ 6.8 17			
5 1	17 29.26	-15 38.0	1.051	1.920	20.7	19.1	5 1	17 34.25	-7 30.4	1.631	2.450	16.9	20.8
5 11	17 28.63	-14 36.9	0.973	1.902	16.7	18.8	5 11	17 30.86	-6 4.2	1.563	2.455	13.9	20.6
5 21	17 24.51	-13 35.3	0.912	1.885	12.2	18.5	5 21	17 25.02	-4 44.9	1.516	2.459	10.9	20.4
5 31	17 17.50	-12 38.7	0.870	1.870	7.6	18.2	5 31	17 17.38	-3 38.5	1.492	2.465	8.6	20.3
6 10	17 8.83	-11 53.1	0.849	1.855	6.1	18.1	6 10	17 8.90	-2 50.0	1.492	2.470	8.2	20.3
6 20	17 0.08	-11 23.9	0.848	1.842	9.7	18.2	6 20	17 0.63	-2 22.9	1.516	2.476	9.9	20.4
6 30	16 52.93	-11 14.8	0.867	1.831	14.8	18.4	6 30	16 53.58	-2 18.0	1.564	2.482	12.7	20.6
7 10	16 48.70	-11 26.1	0.904	1.821	19.7	18.7	7 10	16 48.54	-2 33.5	1.631	2.488	15.6	20.8
428303	2007 EF ₂₂₃	6 9.1 166°11	0°4/ 9.1 17				302235	2001 WF ₂₆	6 9.1 165°90	0°6/ 9.1 18			
5 1	17 41.63	-21 51.2	2.050	2.854	14.4	21.0	5 1	17 44.26	-23 21.8	1.890	2.693	15.5	21.6
5 11	17 36.47	-22 25.9	1.965	2.858	11.4	20.7	5 11	17 38.73	-23 44.1	1.806	2.699	12.3	21.4
5 21	17 28.83	-23 1.9	1.900	2.861	7.8	20.5	5 21	17 30.47	-24 5.5	1.744	2.704	8.5	21.2
5 31	17 19.27	-23 37.2	1.862	2.864	3.9	20.3	5 31	17 20.09	-24 24.1	1.707	2.709	4.2	20.9
6 10	17 8.67	-24 9.8	1.851	2.866	0.6	20.0	6 10	17 8.62	-24 38.4	1.698	2.713	0.7	20.6
6 20	16 58.09	-24 38.6	1.869	2.868	4.6	20.3	6 20	16 57.24	-24 47.8	1.716	2.715	4.9	21.0
6 30	16 48.60	-25 3.4	1.915	2.870	8.5	20.6	6 30	16 47.15	-24 53.3	1.762	2.717	9.1	21.2
7 10	16 41.07	-25 25.5	1.984	2.871	12.0	20.8	7 10	16 39.26	-24 57.3	1.831	2.718	12.8	21.4
45336	2000 AC ₈₃	6 9.1 100°59	0°3/ 8.9 18				167241	2003 UC ₉₁	6 9.1 194°28	3°0/ 8.4 18			
5 1	17 37.69	-24 0.7	2.031	2.843	14.3	19.4	5 1	17 36.37	-14 33.7	2.380	3.181	12.7	21.2
5 11	17 33.18	-23 34.8	1.954	2.852	11.2	19.2	5 11	17 31.85	-14 12.7	2.289	3.179	10.2	21.1
5 21	17 26.40	-23 4.9	1.899	2.862	7.7	19.0	5 21	17 25.40	-13 54.3	2.222	3.177	7.2	20.9
5 31	17 17.98	-22 31.2	1.869	2.872	3.7	18.8	5 31	17 17.51	-13 39.7	2.180	3.174	4.3	20.7
6 10	17 8.82	-21 54.9	1.866	2.882	0.5	18.6	6 10	17 8.89	-13 30.3	2.166	3.171	3.0	20.6
6 20	16 59.91	-21 18.2	1.891	2.891	4.5	18.9	6 20	17 0.32	-13 26.9	2.180	3.168	5.2	20.7
6 30	16 52.17	-20 43.7	1.943	2.900	8.3	19.1	6 30	16 52.61	-13 30.4	2.221	3.164	8.2	20.9
7 10	16 46.32	-20 13.9	2.019	2.909	11.6	19.4	7 10	16 46.40	-13 40.8	2.287	3.159	11.1	21.1
379641	2011 DX ₃₉	6 9.1 70°42	0°8/ 8.9 17				193479	2000 XG ₄₁	6 9.1 202°69	6°3/ 10.5 18			
5 1	17 37.55	-21 57.0	1.707	2.531	16.1	21.3	5 1	17 43.85	-40 27.6	2.241	3.006	14.5	20.8
5 11	17 33.61	-21 42.7	1.629	2.534	12.7	21.1	5 11	17 38.60	-41 10.6	2.149	3.002	12.2	20.6
5 21	17 27.00	-21 26.4	1.572	2.538	8.7	20.9	5 21	17 30.49	-41 42.9	2.079	2.999	9.7	20.4
5 31	17 18.38	-21 8.2	1.538	2.541	4.3	20.6	5 31	17 20.15	-41 59.6	2.032	2.994	7.4	20.3
6 10	17 8.78	-20 48.9	1.530	2.545	1.0	20.4	6 10	17 8.62	-41 57.4	2.011	2.989	6.3	20.2
6 20	16 59.35	-20 30.0	1.548	2.548	5.2	20.7	6 20	16 57.14	-41 35.6	2.017	2.984	7.3	20.2
6 30	16 51.24	-20 13.7	1.592	2.552	9.5	21.0	6 30	16 46.98	-40 56.9	2.049	2.979	9.5	20.4
7 10	16 45.30	-20 2.2	1.659	2.555	13.4	21.2	7 10	16 39.12	-40 6.6	2.104	2.972	12.1	20.5
441787	2009 DK ₁₀₇	6 9.1 14°42	1°7/ 8.7 15				216370	2008 AU ₁₁₇	6 9.1 341°58	0°7/ 9.2 17			
5 1	17 31.91	-20 7.9	1.472	2.316	17.2	21.4	5 1	17 34.96	-24 50.7	2.033	2.850	14.1	20.9
5 11	17 29.47	-19 48.4	1.406	2.322	13.5	21.2	5 11	17 31.30	-24 54.7	1.946	2.846	11.2	20.7
5 21	17 24.29	-19 28.5	1.360	2.330	9.3	20.9	5 21	17 25.31	-24 55.9	1.880	2.843	7.7	20.5
5 31	17 17.07	-19 9.2	1.336	2.339	4.7	20.7	5 31	17 17.55	-24 53.3	1.838	2.840	3.8	20.2
6 10	17 8.92	-18 52.1	1.336	2.350	1.8	20.5	6 10	17 8.88	-24 46.6	1.823	2.838	0.7	20.0
6 20	17 1.01	-18 38.7	1.361	2.361	5.8	20.8	6 20	17 0.28	-24 36.4	1.835	2.835	4.5	20.3
6 30	16 54.49	-18 30.9	1.410	2.373	10.1	21.1	6 30	16 52.73	-24 24.5	1.873	2.833	8.3	20.5
7 10	16 50.22	-18 29.9	1.480	2.387	14.0	21.3	7 10	16 47.03	-24 12.9	1.935	2.832	11.8	20.7
514662	2005 UE ₁₄	6 9.1 228°83	3°2/ 7.9 18				146109	2000 QH ₁₀₈	6 9.1 231°75	0°5/ 9.2 18			
5 1	17 33.81	-13 43.3	2.831	3.627	11.0	22.1	5 1	17 36.17	-24 39.2	2.737	3.533	11.4	21.1
5 11	17 29.55	-13 4.3	2.731	3.617	8.8	22.0	5 11	17 31.64	-24 41.6	2.633	3.522	9.0	20.9
5 21	17 23.68	-12 26.8	2.655	3.607	6.4	21.8	5 21	17 25.25	-24 41.6	2.552	3.510	6.2	20.7
5 31	17 16.63	-11 52.4	2.605	3.596	4.1	21.6	5 31	17 17.46	-24 38.4	2.497	3.498	3.1	20.5
6 10	17 8.97	-11 23.1	2.584	3.584	3.3	21.6	6 10	17 8.91	-24 32.0	2.471	3.486	0.5	20.3
6 20	17 1.33	-11 0.2	2.592	3.573	5.0	21.7	6 20	17 0.34	-24 22.6	2.474	3.473	3.6	20.5
6 30	16 54.35	-10 45.2	2.627	3.561	7.5	21.8	6 30	16 52.53	-24 11.4	2.505	3.459	6.8	20.7
7 10	16 48.60	-10 38.5	2.687	3.548	10.0	21.9	7 10	16 46.10	-24 0.3	2.562	3.446	9.7	20.9
241209	2007 TZ ₄₁	6 9.1 147°92	2°6/ 8.5 17				386800	2010 EJ ₁₂₉	6 9.1 153°23	1°5/ 8.7 17			
5 1	17 35.87	-16 49.7	2.06										

EPHEMERIDES

6 9.1

6 9.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
242019	2002 QD ₁		6 9.1 263°05	5°1/ 7.9 18			114276	2002 XP ₁₇		6 9.1 324°84	9°2/ 9.4 18		
5 1	17 34.84	-10 8.4	2.052	2.860	14.3	20.9	5 1	17 36.52	-37 15.1	1.286	2.113	20.1	18.8
5 11	17 31.01	-9 32.1	1.962	2.851	11.6	20.6	5 11	17 35.03	-38 41.7	1.197	2.092	17.0	18.5
5 21	17 25.02	-9 1.1	1.894	2.843	8.7	20.4	5 21	17 29.47	-40 1.0	1.126	2.072	13.6	18.2
5 31	17 17.40	-8 38.2	1.850	2.834	6.1	20.3	5 31	17 20.24	-41 4.1	1.075	2.052	10.5	18.0
6 10	17 8.92	-8 25.9	1.832	2.826	5.2	20.2	6 10	17 8.64	-41 42.4	1.045	2.033	9.2	17.9
6 20	17 0.45	-8 25.7	1.840	2.817	7.1	20.3	6 20	16 56.58	-41 50.8	1.037	2.015	10.9	17.9
6 30	16 52.89	-8 38.0	1.874	2.808	10.0	20.5	6 30	16 46.30	-41 30.7	1.049	1.998	14.5	18.0
7 10	16 47.01	-9 2.1	1.931	2.799	13.1	20.6	7 10	16 39.55	-40 49.9	1.080	1.983	18.4	18.2
201591	2003 SU ₁₂₈		6 9.1 204°87	1°0/ 9.3 18			68226	2001 DM ₁₈		6 9.1 184°10	0°8/ 9.2 18		
5 1	17 37.77	-26 40.7	2.032	2.842	14.3	20.5	5 1	17 42.47	-24 3.0	1.975	2.779	14.9	19.8
5 11	17 33.48	-26 34.1	1.945	2.841	11.4	20.3	5 11	17 37.31	-24 23.8	1.887	2.780	11.8	19.6
5 21	17 26.79	-26 22.4	1.878	2.839	7.9	20.1	5 21	17 29.52	-24 43.4	1.820	2.780	8.2	19.4
5 31	17 18.27	-26 4.6	1.837	2.838	4.0	19.9	5 31	17 19.68	-24 59.8	1.778	2.779	4.1	19.1
6 10	17 8.85	-25 40.9	1.822	2.836	1.0	19.6	6 10	17 8.76	-25 11.6	1.763	2.778	0.9	18.9
6 20	16 59.54	-25 12.5	1.834	2.834	4.5	19.9	6 20	16 57.86	-25 18.4	1.776	2.776	4.8	19.2
6 30	16 51.37	-24 42.0	1.874	2.833	8.4	20.1	6 30	16 48.14	-25 21.3	1.817	2.773	8.8	19.4
7 10	16 45.15	-24 12.5	1.937	2.831	11.9	20.3	7 10	16 40.49	-25 22.4	1.882	2.769	12.5	19.6
186752	2004 CB ₇₁		6 9.1 185°23	2°3/ 9.5 17			302327	2002 AS ₇₆		6 9.1 137°74	2°9/ 9.9 18		
5 1	17 40.38	-27 59.1	1.683	2.499	16.6	20.8	5 1	17 37.70	-32 21.8	2.441	3.231	12.8	20.7
5 11	17 36.18	-28 17.0	1.600	2.499	13.3	20.6	5 11	17 33.09	-32 30.5	2.355	3.236	10.3	20.6
5 21	17 28.98	-28 30.0	1.538	2.499	9.3	20.3	5 21	17 26.34	-32 32.0	2.291	3.240	7.4	20.4
5 31	17 19.46	-28 35.3	1.499	2.498	5.1	20.1	5 31	17 18.01	-32 24.5	2.253	3.244	4.5	20.2
6 10	17 8.73	-28 31.4	1.486	2.498	2.3	19.9	6 10	17 8.93	-32 7.3	2.242	3.248	2.9	20.1
6 20	16 58.09	-28 18.4	1.498	2.497	5.5	20.1	6 20	17 0.00	-31 41.0	2.258	3.252	4.5	20.2
6 30	16 48.88	-27 58.8	1.537	2.497	9.8	20.4	6 30	16 52.10	-31 7.9	2.303	3.255	7.4	20.4
7 10	16 42.10	-27 36.7	1.598	2.496	13.7	20.6	7 10	16 45.94	-30 31.5	2.372	3.259	10.3	20.6
55014	2001 QC ₃₁		6 9.1 88°30	5°5/ 9.5 18 R			355189	2006 W/N ₁₆₀		6 9.1 167°07	0°9/ 8.9 18		
5 1	17 43.89	-33 29.5	1.751	2.551	16.7	17.8	5 1	17 36.24	-18 59.5	2.796	3.593	11.2	21.5
5 11	17 39.05	-34 40.5	1.680	2.562	13.6	17.7	5 11	17 31.51	-19 11.4	2.707	3.596	8.8	21.3
5 21	17 31.02	-35 45.0	1.629	2.574	10.2	17.5	5 21	17 25.07	-19 24.5	2.640	3.599	6.0	21.2
5 31	17 20.48	-36 37.2	1.602	2.585	7.0	17.3	5 31	17 17.37	-19 38.6	2.601	3.602	3.0	21.0
6 10	17 8.63	-37 12.4	1.601	2.597	5.5	17.2	6 10	17 9.02	-19 53.3	2.590	3.604	0.9	20.8
6 20	16 56.89	-37 28.8	1.625	2.608	7.2	17.4	6 20	17 0.72	-20 8.5	2.609	3.607	3.6	21.0
6 30	16 46.70	-37 28.2	1.675	2.619	10.3	17.6	6 30	16 53.14	-20 24.4	2.656	3.608	6.6	21.2
7 10	16 39.15	-37 15.6	1.748	2.630	13.5	17.8	7 10	16 46.89	-20 41.5	2.730	3.610	9.3	21.4
89657	2001 XO ₂₅₉		6 9.1 303°35	2°4/ 8.6 18			370908	2005 GX ₁₂₇		6 9.1 352°49	5°8/ 8.3 17		
5 1	17 34.57	-16 49.2	2.131	2.945	13.6	19.7	5 1	17 28.38	-13 58.3	1.037	1.907	20.8	19.6
5 11	17 30.74	-16 34.6	2.043	2.942	10.8	19.5	5 11	17 27.84	-13 16.5	0.969	1.898	16.8	19.3
5 21	17 24.81	-16 21.7	1.977	2.939	7.5	19.3	5 21	17 23.89	-12 39.8	0.917	1.890	12.2	19.0
5 31	17 17.29	-16 11.7	1.936	2.936	4.1	19.0	5 31	17 17.20	-12 13.1	0.885	1.884	7.7	18.8
6 10	17 8.96	-16 5.5	1.922	2.933	2.4	18.9	6 10	17 9.04	-12 0.8	0.873	1.880	5.9	18.6
6 20	17 0.68	-16 3.8	1.935	2.930	5.1	19.1	6 20	17 0.95	-12 5.4	0.882	1.878	9.2	18.8
6 30	16 53.34	-16 7.7	1.975	2.927	8.5	19.3	6 30	16 54.51	-12 27.5	0.912	1.877	14.0	19.1
7 10	16 47.65	-16 17.4	2.039	2.924	11.7	19.5	7 10	16 50.92	-13 5.2	0.958	1.878	18.6	19.3
420450	2012 DW ₅₈		6 9.1 184°52	3°0/ 8.6 17			93723	2000 VF ₄₀		6 9.1 305°45	0°3/ 9.2 18		
5 1	17 40.39	-15 31.3	1.967	2.773	14.9	22.2	5 1	17 35.99	-24 38.3	1.620	2.449	16.5	19.9
5 11	17 35.45	-15 14.6	1.881	2.774	11.9	22.0	5 11	17 32.90	-24 29.1	1.525	2.433	13.2	19.6
5 21	17 28.10	-15 0.7	1.816	2.774	8.4	21.8	5 21	17 26.91	-24 15.4	1.450	2.417	9.2	19.3
5 31	17 18.93	-14 50.7	1.776	2.773	4.8	21.6	5 31	17 18.57	-23 56.7	1.398	2.401	4.6	19.0
6 10	17 8.81	-14 45.7	1.763	2.771	3.0	21.5	6 10	17 8.91	-23 33.0	1.370	2.386	0.5	18.7
6 20	16 58.77	-14 46.6	1.778	2.769	5.7	21.6	6 20	16 59.18	-23 5.9	1.369	2.370	5.5	19.0
6 30	16 49.81	-14 54.2	1.819	2.766	9.4	21.8	6 30	16 50.71	-22 38.3	1.392	2.355	10.3	19.2
7 10	16 42.78	-15 8.6	1.884	2.763	12.9	22.0	7 10	16 44.55	-22 13.7	1.437	2.341	14.5	19.5
473985	2016 EE ₂₀₁		6 9.1 31°04	4°1/ 8.8 17			214434	2005 QY ₇₃		6 9.1 261°72	7°3/ 6.4 18		
5 1	17 37.73	-13 54.9	1.360	2.196	18.8	21.0	5 1	17 32.99	- 2 46.0	2.438	3.222	13.0	20.2
5 11	17 34.32	-13 43.8	1.290	2.198	15.0	20.8	5 11	17 29.19	- 1 37.9	2.348	3.210	11.0	20.1
5 21	17 27.83	-13 39.5	1.237	2.201	10.7	20.6	5 21	17 23.62	- 0 37.1	2.279	3.198	9.0	19.9
5 31	17 18.93	-13 43.8	1.207	2.205	6.3	20.3	5 31	17 16.71	+ 0 12.4	2.235	3.185	7.6	19.8
6 10	17 8.81	-13 57.7	1.200	2.209	4.2	20.2	6 10	17 9.11	+ 0 47.1	2.217	3.173	7.4	19.8
6 20	16 58.83	-14 21.4	1.218	2.213	7.3	20.4	6 20	17 1.51	+ 1 4.6	2.225	3.160	8.6	19.8
6 30	16 50.37	-14 54.4	1.259	2.217	11.8	20.6	6 30	16 54.64	+ 1 4.2	2.258	3.147	10.6	19.9
7 10	16 44.45	-15 35.2	1.322	2.221	15.9	20.9	7 10	16 49.13	+ 0 47.1	2.312	3.134	12.8	20.1
276942	2004 TE ₂₃₉		6 9.1 289°78	6°3/ 6.9 18			93147	2000 SA ₈₀		6 9.1 109°15	2°3/ 8.7 18		
5 1	17 34.91	-11 29.1	1.763	2.583	15.8	21.0	5 1	17 38.02	-17 49.1	1.888	2.703	15.1	20.0
5 11	17 31.48	-10 11.8	1.671	2.568	12.9	20.7	5 11	17 33.61	-17 30.6	1.814	2.713	11.9	19.8
5 21	17 25.58	- 8 55.8	1.601	2.553	9.7	20.5	5 21	17 26.82	-17 13.4	1.761	2.723	8.2	19.6
5 31	17 17.77	- 7 46.0	1.553	2.537	7.0	20.3	5 31	17 18.30	-16 58.2	1.732	2.732	4.4	19.4
6 10	17 8.92	- 6 47.4	1.532	2.522	6.5	20.2	6 10	17 8.96	-16 46.4	1.730	2.742	2.3	19.2
6 20	17 0.07	- 6 4.2	1.535	2.507	8.7	20.3	6 20	16 59.82	-16 38.8	1.756	2.751	5.3	19.5
6 30	16 52.26	- 5 39.0	1.563	2.492	12.0	20.5	6 30	16 51.86	-16 36.9	1.807	2.760	9.1	19.7
7 10	16 46.39	- 5 32.4	1.612	2.478	15.3	20.7	7 10	16 45.85	-16 41.2	1.882	2.768	12.5	19.9
375841	2009 UY ₁₃₇		6 9.1 155°31	2°9/ 8.2 17			522570	2016 ER ₂₄₄		6 9.1 315°81	2°3/ 9.5 17		
5 1	17 38.06	-17 38.2											

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
281429	2008 <i>SJ</i> ₅		6 9.1 196°06	2°8/ 8.6 18			387380	2012 <i>XE</i> ₁₅₅		6 9.1 165°57	0°2/ 9.1 17		
5 1	17 37.05	-15 39.6	2.100	2.909	14.0	20.7	5 1	17 36.50	-22 13.0	2.118	2.930	13.8	21.0
5 11	17 32.71	-15 22.9	2.013	2.908	11.1	20.5	5 11	17 32.37	-22 17.3	2.032	2.930	10.9	20.8
5 21	17 26.19	-15 8.6	1.947	2.906	7.8	20.3	5 21	17 26.02	-22 20.8	1.967	2.930	7.4	20.5
5 31	17 18.02	-14 58.1	1.906	2.904	4.5	20.1	5 31	17 17.97	-22 22.7	1.928	2.930	3.6	20.3
6 10	17 9.01	-14 52.3	1.893	2.901	2.9	20.0	6 10	17 9.07	-22 23.1	1.916	2.931	0.4	20.0
6 20	17 0.05	-14 52.1	1.907	2.898	5.4	20.2	6 20	17 0.23	-22 22.1	1.931	2.931	4.4	20.3
6 30	16 52.06	-14 58.3	1.947	2.895	8.8	20.4	6 30	16 52.40	-22 20.9	1.973	2.931	8.1	20.6
7 10	16 45.79	-15 11.2	2.011	2.892	12.1	20.6	7 10	16 46.34	-22 21.0	2.039	2.931	11.5	20.8
105849	2000 <i>SL</i> ₁₆₅		6 9.1 162°40	1°7/ 9.7 18			138898	2000 <i>YU</i> ₈₇		6 9.1 178°46	2°1/ 8.8 18		
5 1	17 37.10	-29 28.1	2.504	3.299	12.4	19.8	5 1	17 35.53	-14 39.2	2.940	3.732	10.8	20.1
5 11	17 32.50	-29 21.9	2.415	3.301	9.8	19.6	5 11	17 30.86	-14 44.0	2.849	3.734	8.6	19.9
5 21	17 25.89	-29 9.7	2.349	3.304	6.9	19.5	5 21	17 24.60	-14 52.0	2.780	3.734	6.0	19.8
5 31	17 17.81	-28 50.4	2.308	3.306	3.8	19.3	5 31	17 17.18	-15 3.6	2.739	3.735	3.4	19.6
6 10	17 9.04	-28 24.0	2.296	3.308	1.7	19.1	6 10	17 9.15	-15 18.7	2.727	3.735	2.1	19.5
6 20	17 0.40	-27 51.7	2.312	3.309	4.0	19.3	6 20	17 1.15	-15 37.5	2.744	3.735	4.0	19.6
6 30	16 52.73	-27 15.8	2.355	3.311	7.1	19.5	6 30	16 53.82	-15 59.8	2.789	3.734	6.7	19.8
7 10	16 46.69	-26 39.2	2.424	3.312	10.0	19.7	7 10	16 47.70	-16 25.5	2.861	3.733	9.2	20.0
42486	1991 <i>GY</i> ₂		6 9.1 60°58	3°7/ 8.4 18			184922	2005 <i>UP</i> ₄₉₇		6 9.1 312°04	7°3/ 7.4 18		
5 1	17 38.05	-16 53.7	1.386	2.222	18.5	19.0	5 1	17 32.40	-4 37.2	2.056	2.857	14.5	19.9
5 11	17 34.40	-16 12.8	1.321	2.231	14.7	18.8	5 11	17 29.14	-3 47.5	1.966	2.843	12.2	19.7
5 21	17 27.74	-15 33.4	1.275	2.241	10.3	18.5	5 21	17 23.82	-3 6.1	1.897	2.830	9.7	19.5
5 31	17 18.85	-14 58.0	1.251	2.250	5.8	18.3	5 31	17 16.92	-2 37.4	1.851	2.817	7.8	19.3
6 10	17 8.93	-14 29.5	1.251	2.260	3.8	18.2	6 10	17 9.17	-2 24.4	1.830	2.804	7.3	19.3
6 20	16 59.32	-14 10.5	1.276	2.270	7.1	18.4	6 20	17 1.40	-2 29.1	1.835	2.791	8.7	19.3
6 30	16 51.29	-14 2.6	1.325	2.281	11.5	18.7	6 30	16 54.48	-2 51.6	1.863	2.778	11.2	19.5
7 10	16 45.75	-14 6.5	1.395	2.291	15.4	19.0	7 10	16 49.14	-3 30.2	1.914	2.766	13.8	19.6
426814	2013 <i>TF</i> ₁₄₁		6 9.1 53°16	0°4/ 9.2 17			769	Tatjana		6 9.1 335°73	3°0/ 9.4 18		
5 1	17 38.29	-23 59.5	1.578	2.405	17.0	21.0	5 1	17 34.73	-28 47.5	1.870	2.688	15.1	13.3
5 11	17 34.48	-24 4.0	1.507	2.413	13.4	20.8	5 11	17 31.66	-29 24.8	1.777	2.676	12.1	13.1
5 21	17 27.77	-24 6.0	1.455	2.421	9.2	20.5	5 21	17 25.95	-29 58.8	1.705	2.665	8.7	12.9
5 31	17 18.88	-24 4.2	1.426	2.429	4.5	20.3	5 31	17 18.10	-30 26.5	1.657	2.654	5.1	12.6
6 10	17 8.94	-23 58.2	1.423	2.438	0.6	20.0	6 10	17 9.05	-30 45.3	1.634	2.643	3.0	12.5
6 20	16 59.21	-23 49.0	1.445	2.446	5.3	20.4	6 20	16 59.91	-30 54.4	1.637	2.634	5.5	12.6
6 30	16 50.95	-23 38.5	1.492	2.455	9.8	20.7	6 30	16 51.88	-30 54.6	1.665	2.625	9.2	12.8
7 10	16 45.07	-23 29.4	1.562	2.464	13.7	20.9	7 10	16 45.93	-30 48.9	1.717	2.616	12.8	13.0
175724	1997 <i>GN</i> ₂₅		6 9.1 226°50	3°5/ 8.4 17			502384	2015 <i>BU</i> ₂₄₄		6 9.1 241°94	0°2/ 9.1 17		
5 1	17 38.06	-16 6.5	1.718	2.539	16.1	21.0	5 1	17 40.46	-23 14.9	1.891	2.702	15.2	22.5
5 11	17 34.04	-15 33.7	1.633	2.534	12.9	20.7	5 11	17 35.98	-23 6.3	1.790	2.688	12.1	22.2
5 21	17 27.39	-15 2.4	1.568	2.529	9.1	20.5	5 21	17 28.80	-22 54.8	1.710	2.673	8.4	22.0
5 31	17 18.70	-14 34.6	1.527	2.524	5.3	20.3	5 31	17 19.47	-22 39.8	1.655	2.657	4.1	21.7
6 10	17 8.96	-14 12.5	1.511	2.519	3.6	20.1	6 10	17 8.93	-22 21.3	1.626	2.641	0.5	21.4
6 20	16 59.27	-13 58.1	1.522	2.514	6.5	20.3	6 20	16 58.30	-22 0.5	1.624	2.624	5.1	21.7
6 30	16 50.78	-13 52.9	1.558	2.508	10.5	20.5	6 30	16 48.78	-21 39.7	1.649	2.607	9.5	21.9
7 10	16 44.40	-13 57.7	1.616	2.502	14.2	20.7	7 10	16 41.35	-21 21.7	1.698	2.589	13.4	22.1
486723	2014 <i>DY</i> ₆		6 9.1 29°17	17°9/13.9 17			393942	2005 <i>UE</i> ₁₆₉		6 9.1 302°19	1°7/ 8.6 17		
5 1	17 50.43	-53 25.4	1.056	1.837	26.4	20.7	5 1	17 34.33	-20 5.4	2.312	3.124	12.8	21.2
5 11	17 48.62	-55 21.4	1.003	1.841	24.0	20.6	5 11	17 30.39	-19 30.9	2.223	3.121	10.1	21.1
5 21	17 40.13	-56 50.3	0.962	1.845	21.4	20.4	5 21	17 24.51	-18 54.6	2.157	3.119	6.9	20.9
5 31	17 25.76	-57 36.0	0.936	1.850	19.3	20.3	5 31	17 17.19	-18 17.6	2.116	3.117	3.6	20.6
6 10	17 8.27	-57 25.7	0.927	1.855	18.0	20.2	6 10	17 9.17	-17 41.7	2.103	3.115	1.8	20.5
6 20	16 51.53	-56 16.9	0.934	1.861	18.2	20.2	6 20	17 1.25	-17 8.7	2.117	3.113	4.6	20.7
6 30	16 39.07	-54 19.7	0.959	1.867	19.6	20.4	6 30	16 54.24	-16 40.6	2.159	3.111	7.9	20.9
7 10	16 32.64	-51 52.9	1.000	1.874	21.9	20.5	7 10	16 48.77	-16 19.2	2.225	3.109	11.0	21.1
504662	2009 <i>AC</i> ₄₀		6 9.1 185°11	0°7/ 8.9 17			181989	1999 <i>VW</i> ₁₁₁		6 9.1 201°89	0°5/ 9.2 17		
5 1	17 36.73	-21 38.1	2.183	2.993	13.5	22.3	5 1	17 41.45	-24 20.2	2.060	2.863	14.4	21.9
5 11	17 32.44	-21 28.5	2.096	2.993	10.6	22.1	5 11	17 36.43	-24 23.3	1.966	2.858	11.4	21.7
5 21	17 25.99	-21 17.4	2.030	2.992	7.3	21.8	5 21	17 28.91	-24 23.7	1.894	2.854	7.9	21.4
5 31	17 17.93	-21 5.0	1.990	2.992	3.6	21.6	5 31	17 19.45	-24 20.3	1.846	2.848	3.9	21.2
6 10	17 9.05	-20 51.6	1.977	2.991	0.8	21.4	6 10	17 8.95	-24 12.5	1.827	2.842	0.6	20.9
6 20	17 0.26	-20 38.4	1.992	2.991	4.4	21.7	6 20	16 58.47	-24 0.8	1.835	2.835	4.6	21.2
6 30	16 52.46	-20 26.7	2.034	2.990	8.0	21.9	6 30	16 49.09	-23 47.2	1.871	2.827	8.6	21.4
7 10	16 46.38	-20 18.2	2.100	2.989	11.3	22.1	7 10	16 41.69	-23 33.9	1.931	2.819	12.2	21.6
232836	2004 <i>TF</i> ₄₇		6 9.1 184°35	0°4/ 9.0 18			235292	2003 <i>UG</i> ₅₈		6 9.1 290°02	1°2/ 9.4 18		
5 1	17 37.97	-22 35.8	1.989	2.802	14.5	21.4	5 1	17 37.34	-27 3.0	1.889	2.703	15.1	20.6
5 11	17 33.66	-22 28.2	1.903	2.802	11.5	21.2	5 11	17 33.46	-26 57.0	1.799	2.698	12.0	20.4
5 21	17 26.95	-22 18.6	1.839	2.802	7.9	21.0	5 21	17 26.99	-26 45.5	1.730	2.692	8.4	20.1
5 31	17 18.44	-22 6.7	1.799	2.802	3.8	20.8	5 31	17 18.53	-26 27.2	1.686	2.687	4.3	19.9
6 10	17 9.01	-21 52.8	1.786	2.801	0.6	20.5	6 10	17 9.06	-26 2.2	1.668	2.682	1.2	19.6
6 20	16 59.68	-21 37.9	1.801	2.800	4.6	20.8	6 20	16 59.66	-25 31.8	1.676	2.677	4.8	19.9
6 30	16 51.47	-21 23.8	1.842	2.800	8.6	21.1	6 30	16 51.46	-24 58.8	1.711	2.672	8.9	20.1
7 10	16 45.16	-21 12.6	1.907	2.798	12.1	21.3	7 10	16 45.33	-24 26.8	1.769	2.666	12.6	20.3
336380	2008 <i>UQ</i> ₆₅		6 9.1 211°89	0°6/ 9.3 17			130391	2000 <i>JG</i> ₈₁		6 9.1 25°26	0°		

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
61802	2000 QA ₁₈₅		6 9.1 256°70	3°7/ 8.5 18			383616	2007 LW ₂₁		6 9.1 44°43	2°9/ 8.9 18		
5 1	17 34.77	-12 12.0	2.329	3.132	12.9	19.8	5 1	17 37.77	-14 25.6	1.769	2.587	15.8	20.5
5 11	17 30.77	-11 55.7	2.234	3.123	10.4	19.6	5 11	17 33.73	-14 32.8	1.690	2.589	12.6	20.3
5 21	17 24.82	-11 44.0	2.161	3.114	7.6	19.4	5 21	17 27.16	-14 45.9	1.630	2.591	8.9	20.0
5 31	17 17.39	-11 38.3	2.113	3.104	4.8	19.2	5 31	17 18.64	-15 5.6	1.595	2.593	5.0	19.8
6 10	17 9.17	-11 40.0	2.093	3.094	3.7	19.1	6 10	17 9.10	-15 31.7	1.585	2.595	2.9	19.7
6 20	17 0.94	-11 49.6	2.100	3.085	5.6	19.2	6 20	16 59.62	-16 3.7	1.602	2.597	5.8	19.9
6 30	16 53.50	-12 7.4	2.133	3.075	8.6	19.4	6 30	16 51.30	-16 40.8	1.645	2.600	9.7	20.1
7 10	16 47.53	-12 33.1	2.191	3.065	11.5	19.5	7 10	16 45.00	-17 22.1	1.711	2.602	13.3	20.3
23288	2000 YG ₁₂₃		6 9.1 216°35	5°2/ 7.7 18			257729	1999 XC ₂₅₉		6 9.1 256°80	1°4/ 8.9 17		
5 1	17 36.87	- 7 32.1	2.592	3.376	12.3	20.6	5 1	17 39.80	-20 31.3	1.827	2.641	15.5	22.0
5 11	17 32.13	- 6 52.0	2.494	3.366	10.1	20.5	5 11	17 35.58	-20 16.4	1.723	2.622	12.4	21.7
5 21	17 25.61	- 6 17.2	2.420	3.355	7.8	20.3	5 21	17 28.64	-20 0.3	1.639	2.603	8.6	21.4
5 31	17 17.73	- 5 50.3	2.371	3.344	5.8	20.2	5 31	17 19.47	-19 43.2	1.580	2.582	4.4	21.1
6 10	17 9.14	- 5 33.5	2.349	3.331	5.3	20.1	6 10	17 9.01	-19 25.7	1.548	2.562	1.5	20.9
6 20	17 0.54	- 5 28.3	2.355	3.318	6.7	20.2	6 20	16 58.39	-19 9.1	1.542	2.540	5.5	21.1
6 30	16 52.66	- 5 35.2	2.389	3.305	9.0	20.3	6 30	16 48.83	-18 55.6	1.562	2.518	10.0	21.3
7 10	16 46.13	- 5 53.7	2.446	3.290	11.5	20.4	7 10	16 41.36	-18 47.3	1.606	2.496	14.1	21.5
120793	1998 FT ₃₇		6 9.1 12°61	1°4/ 8.9 18			193215	2000 QG ₂₃₂		6 9.1 295°29	10°3/ 9.9 17		
5 1	17 35.43	-19 44.8	1.491	2.328	17.3	19.0	5 1	17 43.75	-44 27.1	1.732	2.505	17.9	20.4
5 11	17 32.39	-19 42.5	1.418	2.330	13.7	18.8	5 11	17 40.20	-45 49.7	1.636	2.485	15.6	20.2
5 21	17 26.47	-19 41.3	1.363	2.332	9.5	18.5	5 21	17 32.74	-47 0.7	1.559	2.465	13.2	20.0
5 31	17 18.34	-19 41.3	1.332	2.335	4.7	18.3	5 31	17 21.84	-47 51.4	1.502	2.445	11.1	19.8
6 10	17 9.08	-19 42.9	1.325	2.339	1.5	18.1	6 10	17 8.77	-48 14.0	1.468	2.426	10.3	19.7
6 20	16 59.97	-19 46.5	1.343	2.343	5.7	18.3	6 20	16 55.34	-48 4.8	1.458	2.406	11.2	19.7
6 30	16 52.25	-19 53.2	1.385	2.348	10.3	18.6	6 30	16 43.57	-47 26.0	1.470	2.387	13.5	19.8
7 10	16 46.89	-20 4.2	1.449	2.354	14.4	18.9	7 10	16 35.06	-46 25.2	1.502	2.367	16.3	19.9
72901	2001 KJ ₆₉		6 9.1 92°27	11°7/ 4.8 18			257871	2000 SX ₄₄		6 9.1 211°59	5°2/ 10.9 18		
5 1	17 34.84	+ 6 10.1	2.038	2.798	15.9	19.4	5 1	17 40.99	-40 47.1	2.656	3.413	12.7	20.9
5 11	17 30.84	+ 8 1.7	1.981	2.806	14.2	19.3	5 11	17 35.84	-41 6.1	2.560	3.409	10.6	20.8
5 21	17 24.82	+ 9 38.3	1.944	2.814	12.7	19.2	5 21	17 28.36	-41 14.4	2.485	3.404	8.4	20.6
5 31	17 17.34	+10 53.3	1.929	2.822	11.8	19.2	5 31	17 19.15	-41 8.7	2.435	3.399	6.3	20.5
6 10	17 9.19	+11 41.6	1.936	2.831	11.8	19.2	6 10	17 9.07	-40 47.0	2.412	3.393	5.2	20.4
6 20	17 1.22	+12 1.0	1.967	2.839	12.7	19.3	6 20	16 59.11	-40 9.9	2.417	3.387	6.0	20.4
6 30	16 54.24	+11 52.1	2.018	2.847	14.1	19.4	6 30	16 50.25	-39 19.8	2.448	3.381	8.0	20.6
7 10	16 48.90	+11 18.4	2.088	2.854	15.7	19.5	7 10	16 43.27	-38 21.3	2.504	3.375	10.4	20.7
439401	2013 BT ₄₀		6 9.1 32°03	3°7/ 10.2 17			300779	2007 VM ₂₈₅		6 9.1 294°30	0°7/ 8.9 16		
5 1	17 37.61	-34 27.7	2.252	3.044	13.7	20.9	5 1	17 35.66	-21 49.9	2.006	2.823	14.2	21.3
5 11	17 33.33	-34 38.9	2.166	3.045	11.1	20.7	5 11	17 31.92	-21 40.4	1.914	2.815	11.3	21.1
5 21	17 26.71	-34 41.3	2.102	3.047	8.2	20.5	5 21	17 25.85	-21 29.4	1.844	2.808	7.8	20.8
5 31	17 18.33	-34 32.5	2.062	3.049	5.3	20.3	5 31	17 17.98	-21 16.8	1.798	2.801	3.8	20.6
6 10	17 9.10	-34 11.4	2.048	3.051	3.7	20.2	6 10	17 9.17	-21 3.1	1.779	2.793	0.8	20.3
6 20	17 0.02	-33 38.9	2.062	3.053	5.2	20.3	6 20	17 0.39	-20 49.5	1.786	2.786	4.7	20.6
6 30	16 52.09	-32 57.7	2.103	3.055	8.1	20.5	6 30	16 52.63	-20 37.4	1.821	2.779	8.6	20.8
7 10	16 46.06	-32 11.9	2.167	3.057	11.0	20.7	7 10	16 46.70	-20 28.8	1.878	2.772	12.2	21.0
507778	2013 YY ₁₅₁		6 9.1 220°07	1°8/ 8.7 17			514262	2015 PK ₃₁₅		6 9.1 292°40	5°2/ 9.9 18		
5 1	17 37.41	-18 53.9	2.214	3.021	13.4	22.5	5 1	17 38.59	-36 25.3	2.239	3.025	13.9	20.9
5 11	17 32.98	-18 35.5	2.119	3.014	10.6	22.3	5 11	17 34.51	-37 10.5	2.140	3.011	11.6	20.8
5 21	17 26.40	-18 16.8	2.046	3.007	7.4	22.1	5 21	17 27.83	-37 48.3	2.061	2.997	8.9	20.6
5 31	17 18.19	-17 58.7	1.999	2.999	3.9	21.8	5 31	17 19.05	-38 14.5	2.007	2.984	6.4	20.4
6 10	17 9.11	-17 42.0	1.979	2.991	1.8	21.7	6 10	17 9.07	-38 26.1	1.979	2.970	5.2	20.3
6 20	17 0.06	-17 28.1	1.987	2.983	4.8	21.9	6 20	16 58.98	-38 22.0	1.977	2.956	6.5	20.3
6 30	16 51.93	-17 18.4	2.022	2.974	8.4	22.1	6 30	16 49.95	-38 3.6	2.001	2.943	9.1	20.5
7 10	16 45.46	-17 14.0	2.082	2.964	11.7	22.3	7 10	16 42.93	-37 34.8	2.049	2.929	11.9	20.6
127905	2003 GE ₂₃		6 9.1 314°38	3°5/ 8.5 18			17996	1999 JQ ₇₅		6 9.2 321°76	1°6/ 8.8 18		
5 1	17 33.29	-18 17.8	1.185	2.040	19.7	18.8	5 1	17 36.56	-21 48.8	1.314	2.157	18.9	17.2
5 11	17 31.78	-17 43.7	1.094	2.016	15.9	18.5	5 11	17 33.84	-21 19.6	1.233	2.149	15.0	17.0
5 21	17 26.80	-17 8.6	1.020	1.993	11.3	18.1	5 21	17 27.82	-20 46.6	1.171	2.142	10.4	16.7
5 31	17 18.83	-16 34.8	0.967	1.970	6.2	17.8	5 31	17 19.15	-20 10.7	1.131	2.135	5.2	16.3
6 10	17 9.04	-16 5.5	0.936	1.947	3.6	17.5	6 10	17 9.08	-19 34.1	1.114	2.128	1.7	16.1
6 20	16 58.95	-15 44.0	0.926	1.926	8.0	17.7	6 20	16 59.07	-18 59.7	1.121	2.122	6.5	16.4
6 30	16 50.30	-15 33.8	0.939	1.905	13.6	17.9	6 30	16 50.63	-18 31.2	1.151	2.116	11.8	16.6
7 10	16 44.50	-15 36.8	0.969	1.885	18.8	18.2	7 10	16 44.90	-18 11.9	1.202	2.111	16.4	16.9
69466	1996 VZ ₅		6 9.1 84°23	1°0/ 9.1 18			12603	Tanchunghee		6 9.2 209°40	0°5/ 9.2 18		
5 1	17 50.91	-20 53.2	1.669	2.468	17.4	19.0	5 1	17 41.80	-24 2.5	2.002	2.806	14.7	19.5
5 11	17 44.02	-22 5.4	1.613	2.503	13.7	18.8	5 11	17 36.86	-24 11.3	1.907	2.800	11.7	19.3
5 21	17 34.09	-23 20.2	1.579	2.537	9.3	18.6	5 21	17 29.31	-24 18.0	1.833	2.793	8.1	19.0
5 31	17 21.94	-24 33.1	1.570	2.571	4.6	18.4	5 31	17 19.73	-24 21.3	1.784	2.786	4.0	18.8
6 10	17 8.79	-25 39.4	1.589	2.603	1.1	18.2	6 10	17 9.03	-24 20.3	1.763	2.778	0.6	18.5
6 20	16 56.03	-26 36.1	1.637	2.635	5.2	18.6	6 20	16 58.31	-24 15.3	1.769	2.769	4.7	18.8
6 30	16 44.97	-27 22.8	1.713	2.667	9.5	18.9	6 30	16 48.70	-24 7.7	1.803	2.759	8.9	19.0
7 10	16 36.53	-28 1.4	1.813	2.697	13.0	19.2	7 10	16 41.11	-23 59.9	1.860	2.749	12.5	19.2
58214	Amorim		6 9.1 245°47	6°7/ 10.7 18			311244	2005 EP ₂		6 9.2 119°79	0°4/ 9.1 17		
5 1	17 42.82	-42 25.2	2.3										

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
344083	1998 TX ₁₁		6 9.2 227°59	1°5/ 8.8	16		95688	2002 JO ₂₅		6 9.2 73°97	2°5/ 9.4	18	
5 1	17 36.55	-19 55.8	2.160	2.970	13.6	21.7	5 1	17 38.12	-28 17.6	2.422	3.219	12.7	19.5
5 11	17 32.38	-19 36.4	2.068	2.965	10.7	21.5	5 11	17 33.58	-29 4.2	2.335	3.221	10.1	19.3
5 21	17 26.03	-19 16.1	1.998	2.960	7.4	21.3	5 21	17 26.88	-29 48.4	2.270	3.223	7.2	19.1
5 31	17 18.04	-18 55.5	1.953	2.954	3.8	21.1	5 31	17 18.49	-30 27.4	2.231	3.226	4.2	19.0
6 10	17 9.21	-18 35.7	1.935	2.949	1.6	20.9	6 10	17 9.20	-30 59.1	2.220	3.228	2.5	18.9
6 20	17 0.43	-18 18.0	1.946	2.943	4.7	21.1	6 20	16 59.89	-31 22.3	2.237	3.230	4.5	19.0
6 30	16 52.60	-18 4.0	1.983	2.937	8.4	21.3	6 30	16 51.49	-31 37.4	2.281	3.233	7.6	19.2
7 10	16 46.48	-17 55.2	2.044	2.930	11.7	21.5	7 10	16 44.76	-31 46.2	2.351	3.235	10.4	19.4
476236	2007 VY ₃₆		6 9.2 311°82	0°8/ 8.9	16		502543	2015 BQ ₄₅₁		6 9.2 210°83	1°0/ 9.3	17	
5 1	17 34.66	-22 13.3	1.739	2.567	15.6	21.2	5 1	17 41.19	-25 45.8	2.101	2.902	14.2	22.6
5 11	17 31.65	-21 58.5	1.641	2.548	12.5	20.9	5 11	17 36.28	-25 54.1	2.004	2.896	11.3	22.4
5 21	17 25.99	-21 41.1	1.563	2.530	8.6	20.7	5 21	17 28.87	-25 59.0	1.930	2.889	7.9	22.2
5 31	17 18.19	-21 21.2	1.509	2.512	4.3	20.4	5 31	17 19.51	-25 59.2	1.880	2.881	4.0	21.9
6 10	17 9.19	-20 59.6	1.480	2.495	0.9	20.1	6 10	17 9.11	-25 53.6	1.858	2.873	1.1	21.7
6 20	17 0.10	-20 37.9	1.477	2.478	5.3	20.4	6 20	16 58.69	-25 42.6	1.865	2.864	4.6	21.9
6 30	16 52.11	-20 18.5	1.499	2.461	9.8	20.6	6 30	16 49.34	-25 28.0	1.898	2.854	8.5	22.2
7 10	16 46.21	-20 3.8	1.543	2.445	13.9	20.8	7 10	16 41.94	-25 12.4	1.956	2.844	12.0	22.4
443271	2014 ED ₂₆		6 9.2 347°40	0°9/ 8.9	16		59082	1998 VJ ₂₅		6 9.2 180°69	0°8/ 9.0	18	
5 1	17 33.72	-21 2.1	1.778	2.607	15.3	20.5	5 1	17 42.68	-21 28.5	1.741	2.553	16.3	20.2
5 11	17 30.69	-20 56.8	1.694	2.601	12.1	20.2	5 11	17 37.76	-21 21.8	1.657	2.555	12.9	20.0
5 21	17 25.16	-20 51.1	1.629	2.596	8.3	20.0	5 21	17 30.02	-21 13.9	1.593	2.556	8.9	19.7
5 31	17 17.70	-20 44.8	1.589	2.592	4.1	19.7	5 31	17 20.10	-21 4.5	1.553	2.556	4.4	19.5
6 10	17 9.24	-20 38.6	1.573	2.588	1.0	19.5	6 10	17 9.06	-20 53.6	1.541	2.555	0.9	19.2
6 20	17 0.83	-20 33.2	1.584	2.585	5.0	19.8	6 20	16 58.12	-20 42.2	1.555	2.554	5.3	19.5
6 30	16 53.54	-20 30.0	1.620	2.582	9.2	20.0	6 30	16 48.50	-20 32.3	1.595	2.552	9.8	19.8
7 10	16 48.23	-20 30.5	1.679	2.580	13.0	20.2	7 10	16 41.17	-20 26.1	1.659	2.549	13.7	20.0
75445	1999 XJ ₁₃₂		6 9.2 125°53	2°0/ 9.4	18		47541	2000 AX ₁₁₅		6 9.2 53°90	6°1/ 8.4	17	
5 1	17 44.03	-26 46.4	1.935	2.736	15.3	19.9	5 1	17 37.12	-9 57.0	1.515	2.338	17.7	18.7
5 11	17 38.52	-27 17.4	1.862	2.752	12.1	19.7	5 11	17 33.48	-9 22.1	1.446	2.344	14.4	18.5
5 21	17 30.35	-27 45.2	1.810	2.767	8.5	19.5	5 21	17 27.10	-8 55.4	1.396	2.349	10.7	18.3
5 31	17 20.17	-28 7.0	1.783	2.781	4.5	19.3	5 31	17 18.65	-8 40.5	1.368	2.355	7.4	18.1
6 10	17 9.02	-28 20.8	1.783	2.795	2.0	19.1	6 10	17 9.20	-8 40.0	1.364	2.361	6.1	18.0
6 20	16 58.08	-28 26.3	1.811	2.809	4.9	19.3	6 20	16 59.92	-8 54.7	1.386	2.368	8.3	18.2
6 30	16 48.48	-28 25.0	1.866	2.822	8.7	19.6	6 30	16 51.99	-9 24.2	1.431	2.374	11.8	18.4
7 10	16 41.08	-28 19.8	1.946	2.834	12.1	19.8	7 10	16 46.29	-10 6.4	1.497	2.380	15.3	18.6
507515	2012 VG ₄₁		6 9.2 327°61	1°6/ 8.8	17		53657	2000 DG ₅₃		6 9.2 160°57	3°5/ 8.6	17	
5 1	17 35.81	-20 7.3	1.887	2.707	14.9	21.4	5 1	17 40.19	-16 40.2	1.445	2.273	18.2	19.7
5 11	17 32.09	-19 45.6	1.802	2.705	11.8	21.2	5 11	17 36.18	-16 9.0	1.370	2.276	14.5	19.5
5 21	17 25.98	-19 22.9	1.738	2.702	8.1	20.9	5 21	17 29.13	-15 39.6	1.314	2.278	10.2	19.2
5 31	17 18.06	-18 59.9	1.698	2.700	4.1	20.7	5 31	17 19.71	-15 14.0	1.280	2.279	5.8	19.0
6 10	17 9.22	-18 37.9	1.685	2.698	1.7	20.5	6 10	17 9.10	-14 54.6	1.271	2.281	3.6	18.9
6 20	17 0.46	-18 18.5	1.698	2.696	5.1	20.7	6 20	16 58.65	-14 43.2	1.288	2.282	7.0	19.1
6 30	16 52.82	-18 3.6	1.737	2.694	9.1	21.0	6 30	16 49.70	-14 41.6	1.328	2.283	11.5	19.3
7 10	16 47.08	-17 54.9	1.800	2.692	12.7	21.2	7 10	16 43.25	-14 50.3	1.390	2.284	15.6	19.6
3722	Urata		6 9.2 269°35	2°2/ 8.6	18		250816	2005 UW ₅₈		6 9.2 96°11	0°1/ 9.2	17	
5 1	17 39.59	-20 40.1	1.565	2.391	17.2	16.6	5 1	17 35.46	-24 6.7	2.449	3.254	12.3	20.5
5 11	17 35.89	-20 1.8	1.464	2.370	13.8	16.3	5 11	17 31.20	-23 56.3	2.367	3.262	9.7	20.4
5 21	17 29.12	-19 19.4	1.384	2.349	9.6	16.0	5 21	17 25.03	-23 43.1	2.309	3.270	6.6	20.2
5 31	17 19.82	-18 34.1	1.326	2.328	5.0	15.7	5 31	17 17.49	-23 26.9	2.276	3.278	3.2	20.0
6 10	17 9.05	-17 48.2	1.293	2.306	2.3	15.4	6 10	17 9.32	-23 8.0	2.271	3.286	0.3	19.7
6 20	16 58.11	-17 4.8	1.287	2.284	6.5	15.6	6 20	17 1.29	-22 47.7	2.294	3.294	3.8	20.0
6 30	16 48.42	-16 28.1	1.304	2.261	11.5	15.9	6 30	16 54.18	-22 27.6	2.344	3.301	7.1	20.3
7 10	16 41.13	-16 1.4	1.344	2.239	16.0	16.1	7 10	16 48.60	-22 9.4	2.420	3.309	10.0	20.5
19548	1999 JJ ₅₈		6 9.2 163°66	3°8/ 9.3	18		225960	2002 CY ₆₄		6 9.2 152°06	1°1/ 9.0	17	
5 1	17 42.62	-29 29.5	1.880	2.682	15.6	17.3	5 1	17 40.11	-18 54.4	2.186	2.988	13.7	21.4
5 11	17 37.91	-30 32.6	1.795	2.684	12.6	17.1	5 11	17 35.07	-19 5.9	2.103	2.995	10.8	21.2
5 21	17 30.28	-31 33.1	1.732	2.685	9.1	16.8	5 21	17 27.83	-19 19.1	2.042	3.002	7.4	21.0
5 31	17 20.31	-32 26.3	1.694	2.686	5.6	16.6	5 31	17 18.93	-19 33.5	2.007	3.009	3.7	20.8
6 10	17 9.01	-33 8.3	1.682	2.687	3.8	16.5	6 10	17 9.20	-19 48.7	2.001	3.015	1.1	20.6
6 20	16 57.65	-33 36.7	1.697	2.688	6.0	16.7	6 20	16 59.55	-20 4.4	2.022	3.020	4.4	20.8
6 30	16 47.55	-33 52.1	1.738	2.689	9.6	16.9	6 30	16 50.92	-20 21.0	2.071	3.025	8.1	21.1
7 10	16 39.76	-33 57.6	1.803	2.689	13.0	17.1	7 10	16 44.04	-20 39.0	2.145	3.030	11.3	21.3
287793	2003 SR ₁₄₃		6 9.2 278°75	3°2/ 8.4	17		278506	2008 BJ ₂₀		6 9.2 75°87	1°4/ 9.4	17	
5 1	17 37.59	-18 15.0	1.523	2.354	17.3	20.8	5 1	17 41.37	-25 46.8	1.506	2.330	17.8	20.8
5 11	17 34.24	-17 33.9	1.431	2.339	13.9	20.5	5 11	17 37.05	-25 59.6	1.441	2.345	14.1	20.5
5 21	17 27.91	-16 51.3	1.359	2.325	9.8	20.2	5 21	17 29.63	-26 8.5	1.396	2.360	9.7	20.3
5 31	17 19.19	-16 9.2	1.310	2.310	5.4	19.9	5 31	17 19.91	-26 11.4	1.373	2.375	5.0	20.1
6 10	17 9.12	-15 30.7	1.285	2.295	3.3	19.8	6 10	17 9.12	-26 7.3	1.375	2.390	1.4	19.9
6 20	16 59.00	-14 58.7	1.285	2.280	6.9	19.9	6 20	16 58.65	-25 56.8	1.404	2.405	5.5	20.2
6 30	16 50.16	-14 36.5	1.310	2.265	11.6	20.2	6 30	16 49.85	-25 42.5	1.457	2.420	10.0	20.5
7 10	16 43.68	-14 25.9	1.356	2.251	15.9	20.4	7 10	16 43.63	-25 28.1	1.533	2.435	13.9	20.8
311404	2005 US ₉		6 9.2 182°69	0°6/ 8.9	18		62696	2000 TT ₂₅		6 9.2 131°09	0°1/ 9.1	18	
5 1	17 35.06	-21 11.6	3.085	3.880									

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
358468	2007 <i>MO</i> ₃		6 9.2 335°38	3°8/ 8.9 17			35028	1981 <i>ET</i> ₂₁		6 9.2 136°82	2°4/ 8.6 18		
5 1	17 36.04	-15 10.1	1.191	2.040	20.1	20.2	5 1	17 39.14	-16 35.4	2.235	3.036	13.5	20.4
5 11	17 33.70	-15 2.4	1.115	2.033	16.1	19.9	5 11	17 34.12	-16 15.3	2.158	3.049	10.6	20.3
5 21	17 27.91	-15 1.3	1.057	2.026	11.5	19.7	5 21	17 27.07	-15 56.7	2.104	3.061	7.4	20.1
5 31	17 19.32	-15 8.5	1.019	2.020	6.5	19.4	5 31	17 18.54	-15 40.8	2.076	3.073	4.1	19.9
6 10	17 9.16	-15 25.2	1.004	2.015	3.8	19.2	6 10	17 9.33	-15 28.5	2.075	3.084	2.5	19.8
6 20	16 58.96	-15 51.5	1.011	2.010	7.6	19.4	6 20	17 0.30	-15 20.9	2.103	3.095	4.9	20.0
6 30	16 50.36	-16 26.8	1.041	2.006	12.8	19.7	6 30	16 52.28	-15 18.8	2.158	3.105	8.2	20.2
7 10	16 44.58	-17 10.0	1.090	2.002	17.5	19.9	7 10	16 45.93	-15 22.9	2.237	3.114	11.2	20.4
374866	2006 <i>VP</i> ₆₄		6 9.2 256°03	0°6/ 9.1 17			171869	2001 <i>QD</i> ₁₁₉		6 9.2 199°37	3°4/ 10.2 18		
5 1	17 39.70	-22 11.8	1.830	2.645	15.5	22.3	5 1	17 39.33	-34 2.2	2.397	3.182	13.1	20.6
5 11	17 35.54	-22 4.2	1.728	2.628	12.4	22.0	5 11	17 34.61	-34 12.3	2.304	3.180	10.7	20.4
5 21	17 28.65	-21 54.7	1.647	2.611	8.6	21.8	5 21	17 27.60	-34 14.3	2.234	3.178	7.9	20.2
5 31	17 19.54	-21 42.9	1.590	2.593	4.3	21.5	5 31	17 18.88	-34 5.7	2.188	3.176	5.0	20.0
6 10	17 9.16	-21 28.8	1.560	2.575	0.7	21.1	6 10	17 9.30	-33 45.5	2.170	3.173	3.4	19.9
6 20	16 58.64	-21 13.6	1.556	2.556	5.2	21.4	6 20	16 59.82	-33 14.4	2.180	3.170	4.9	20.0
6 30	16 49.22	-20 59.2	1.579	2.537	9.7	21.6	6 30	16 51.41	-32 34.8	2.216	3.167	7.8	20.2
7 10	16 41.90	-20 48.1	1.624	2.517	13.8	21.8	7 10	16 44.83	-31 50.6	2.278	3.164	10.7	20.4
269668	1995 <i>SB</i> ₄₆		6 9.2 267°84	1°1/ 8.9 17			478098	2011 <i>UO</i> ₅₈		6 9.2 277°44	3°8/ 8.1 16		
5 1	17 39.19	-20 59.8	1.700	2.521	16.2	22.7	5 1	17 34.40	-14 11.2	2.183	2.994	13.4	22.0
5 11	17 35.37	-20 49.8	1.599	2.502	13.0	22.5	5 11	17 30.66	-13 30.2	2.089	2.983	10.8	21.8
5 21	17 28.67	-20 38.6	1.518	2.483	9.0	22.2	5 21	17 24.89	-12 50.9	2.017	2.973	7.8	21.5
5 31	17 19.61	-20 26.2	1.461	2.464	4.6	21.9	5 31	17 17.56	-12 15.6	1.969	2.962	4.9	21.3
6 10	17 9.16	-20 13.1	1.429	2.444	1.2	21.6	6 10	17 9.42	-11 46.5	1.949	2.951	3.9	21.3
6 20	16 58.54	-20 0.4	1.424	2.424	5.6	21.8	6 20	17 1.29	-11 25.8	1.956	2.941	6.0	21.4
6 30	16 49.04	-19 50.0	1.444	2.403	10.4	22.1	6 30	16 54.02	-11 14.9	1.988	2.930	9.1	21.5
7 10	16 41.78	-19 44.2	1.487	2.383	14.7	22.3	7 10	16 48.33	-11 14.2	2.045	2.919	12.2	21.7
48520	1993 <i>FK</i> ₄₅		6 9.2 279°20	0°1/ 9.2 18			502776	2015 <i>DD</i> ₈₉		6 9.2 159°21	2°2/ 8.8 17		
5 1	17 38.48	-23 20.1	1.619	2.444	16.7	19.7	5 1	17 39.81	-17 7.0	2.146	2.949	13.9	22.9
5 11	17 34.93	-23 23.6	1.526	2.432	13.3	19.4	5 11	17 34.83	-16 54.2	2.063	2.955	11.0	22.7
5 21	17 28.41	-23 25.2	1.453	2.419	9.3	19.1	5 21	17 27.67	-16 43.1	2.003	2.962	7.7	22.5
5 31	17 19.48	-23 23.9	1.404	2.407	4.6	18.8	5 31	17 18.89	-16 34.2	1.968	2.967	4.1	22.3
6 10	17 9.18	-23 19.1	1.379	2.394	0.4	18.5	6 10	17 9.31	-16 28.5	1.961	2.972	2.3	22.2
6 20	16 58.79	-23 11.2	1.380	2.382	5.5	18.8	6 20	16 59.85	-16 26.5	1.982	2.976	5.0	22.4
6 30	16 49.66	-23 2.2	1.407	2.369	10.3	19.1	6 30	16 51.42	-16 29.2	2.030	2.980	8.5	22.6
7 10	16 42.90	-22 54.8	1.455	2.357	14.6	19.3	7 10	16 44.75	-16 37.3	2.103	2.983	11.7	22.8
336414	2008 <i>UX</i> ₁₉₈		6 9.2 276°74	3°3/ 9.2 18			254539	2005 <i>EU</i> ₁₆₅		6 9.2 6°91	1°5/ 9.4 17		
5 1	17 42.27	-28 32.7	2.045	2.843	14.6	20.3	5 1	17 38.39	-25 40.2	1.369	2.205	18.6	20.2
5 11	17 37.76	-29 26.3	1.929	2.816	11.9	20.1	5 11	17 35.28	-25 55.5	1.294	2.205	14.9	19.9
5 21	17 30.39	-30 19.4	1.834	2.787	8.6	19.8	5 21	17 28.83	-26 7.3	1.238	2.206	10.3	19.6
5 31	17 20.54	-31 8.0	1.764	2.759	5.2	19.6	5 31	17 19.73	-26 13.3	1.204	2.206	5.3	19.4
6 10	17 9.07	-31 48.3	1.722	2.729	3.3	19.4	6 10	17 9.24	-26 12.0	1.193	2.208	1.5	19.1
6 20	16 57.13	-32 17.4	1.707	2.700	5.8	19.5	6 20	16 58.87	-26 3.8	1.207	2.209	5.9	19.4
6 30	16 46.05	-32 35.2	1.719	2.670	9.6	19.6	6 30	16 50.14	-25 51.2	1.245	2.211	10.9	19.7
7 10	16 37.02	-32 43.9	1.755	2.639	13.4	19.8	7 10	16 44.17	-25 38.0	1.303	2.214	15.3	19.9
173070	2006 <i>SW</i> ₂₅₆		6 9.2 51°52	5°7/ 7.8 18			177365	2004 <i>BM</i> ₁₅		6 9.2 183°42	1°2/ 8.9 17		
5 1	17 37.79	-14 27.6	1.328	2.165	19.0	18.9	5 1	17 40.35	-20 5.3	1.852	2.665	15.4	21.3
5 11	17 34.13	-13 14.0	1.274	2.183	15.2	18.7	5 11	17 35.76	-19 58.7	1.767	2.665	12.2	21.1
5 21	17 27.52	-12 3.5	1.240	2.202	10.9	18.5	5 21	17 28.60	-19 52.0	1.703	2.665	8.4	20.9
5 31	17 18.82	-11 1.0	1.227	2.221	7.0	18.3	5 31	17 19.45	-19 45.4	1.663	2.665	4.2	20.6
6 10	17 9.28	-10 11.4	1.239	2.240	5.8	18.3	6 10	17 9.27	-19 39.1	1.650	2.664	1.3	20.4
6 20	17 0.20	-9 38.1	1.274	2.260	8.4	18.5	6 20	16 59.17	-19 33.9	1.664	2.663	5.1	20.7
6 30	16 52.76	-9 22.8	1.333	2.279	12.2	18.7	6 30	16 50.26	-19 31.2	1.705	2.661	9.3	20.9
7 10	16 47.79	-9 24.6	1.412	2.300	15.8	19.0	7 10	16 43.41	-19 32.5	1.769	2.659	13.0	21.1
471306	2011 <i>HE</i> ₆₇		6 9.2 352°40	10°0/ 7.6 16			425282	2009 <i>WH</i> ₁₈₄		6 9.2 242°84	1°6/ 8.7 18		
5 1	17 31.48	-3 5.3	1.424	2.249	18.6	21.2	5 1	17 38.41	-20 27.4	2.037	2.847	14.3	21.0
5 11	17 29.28	-1 59.1	1.354	2.243	15.8	21.0	5 11	17 34.10	-19 59.3	1.938	2.835	11.4	20.8
5 21	17 24.40	-1 6.0	1.302	2.238	12.9	20.8	5 21	17 27.41	-19 29.1	1.860	2.822	7.9	20.6
5 31	17 17.43	-0 32.5	1.270	2.234	10.6	20.6	5 31	17 18.86	-18 57.5	1.807	2.809	4.1	20.3
6 10	17 9.40	-0 23.9	1.260	2.231	10.1	20.6	6 10	17 9.32	-18 25.9	1.782	2.795	1.7	20.1
6 20	17 1.44	-0 42.0	1.272	2.229	11.6	20.7	6 20	16 59.76	-17 56.3	1.784	2.781	5.1	20.3
6 30	16 54.72	-1 26.0	1.305	2.228	14.3	20.8	6 30	16 51.21	-17 31.0	1.813	2.766	9.0	20.5
7 10	16 50.16	-2 31.5	1.358	2.229	17.4	21.0	7 10	16 44.50	-17 12.0	1.866	2.752	12.6	20.7
248371	2005 <i>QA</i> ₁₈₀		6 9.2 249°15	4°3/ 8.3 18			435211	2007 <i>RN</i> ₂₂₄		6 9.2 346°57	1°4/ 9.4 17		
5 1	17 34.30	-9 59.0	2.443	3.241	12.5	20.8	5 1	17 34.27	-26 33.2	1.500	2.336	17.3	20.0
5 11	17 30.32	-9 35.3	2.349	3.233	10.2	20.7	5 11	17 31.80	-26 35.6	1.417	2.328	13.8	19.8
5 21	17 24.51	-9 16.8	2.278	3.224	7.6	20.5	5 21	17 26.32	-26 32.7	1.354	2.321	9.6	19.5
5 31	17 17.33	-9 5.6	2.231	3.215	5.2	20.3	5 31	17 18.47	-26 23.1	1.313	2.316	5.0	19.2
6 10	17 9.41	-9 3.3	2.212	3.207	4.4	20.2	6 10	17 9.35	-26 6.3	1.296	2.311	1.4	19.0
6 20	17 1.50	-9 10.5	2.220	3.198	6.0	20.3	6 20	17 0.30	-25 43.4	1.304	2.306	5.5	19.2
6 30	16 54.33	-9 27.7	2.255	3.189	8.6	20.5	6 30	16 52.65	-25 17.6	1.336	2.303	10.2	19.5
7 10	16 48.55	-9 54.0	2.314	3.179	11.3	20.6	7 10	16 47.44	-24 52.5	1.389	2.301	14.5	19.7
206675	2003 <i>YB</i> ₁₁₄		6 9.2 269°47	0°5/ 9.1 17			396045	2013 <i>CH</i> ₃₇					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
257661	1999 <i>VP</i> ₄₀		6 9.2 293°27	1.2°/ 8.9	17		145764	1997 <i>GD</i> ₃₁		6 9.2 68°91	0.7°/ 9.0	17	
5 1	17 37.65	-21 26.2	1.490	2.322	17.5	21.2	5 1	17 35.73	-21 11.6	2.208	3.019	13.3	20.4
5 11	17 34.71	-21 12.9	1.386	2.296	14.1	20.9	5 11	17 31.62	-21 4.6	2.132	3.030	10.4	20.2
5 21	17 28.59	-20 57.4	1.302	2.269	9.9	20.6	5 21	17 25.47	-20 56.8	2.078	3.040	7.1	20.0
5 31	17 19.76	-20 40.0	1.239	2.243	5.0	20.2	5 31	17 17.84	-20 48.3	2.049	3.051	3.5	19.8
6 10	17 9.24	-20 21.2	1.201	2.216	1.3	19.9	6 10	17 9.51	-20 39.5	2.047	3.061	0.8	19.6
6 20	16 58.38	-20 2.5	1.188	2.189	6.3	20.2	6 20	17 1.34	-20 31.1	2.073	3.072	4.2	19.9
6 30	16 48.71	-19 46.7	1.199	2.162	11.6	20.4	6 30	16 54.16	-20 24.5	2.126	3.083	7.7	20.1
7 10	16 41.53	-19 36.6	1.231	2.136	16.4	20.6	7 10	16 48.64	-20 20.9	2.203	3.094	10.8	20.3
479041	2013 <i>AJ</i> ₃₇		6 9.2 192°84	3°3/ 8.6	17		352541	2008 <i>CW</i> ₁₈₅		6 9.2 60°10	4°5/ 9.5	17	
5 1	17 35.80	-11 39.6	2.652	3.445	11.8	22.1	5 1	17 41.75	-32 29.7	2.108	2.900	14.5	20.4
5 11	17 31.32	-11 30.2	2.560	3.443	9.5	22.0	5 11	17 36.87	-33 39.9	2.038	2.916	11.7	20.3
5 21	17 25.10	-11 25.4	2.492	3.441	6.9	21.8	5 21	17 29.38	-34 44.8	1.990	2.933	8.7	20.1
5 31	17 17.61	-11 26.4	2.450	3.439	4.4	21.6	5 31	17 19.88	-35 40.0	1.966	2.950	5.8	20.0
6 10	17 9.46	-11 34.0	2.435	3.436	3.4	21.5	6 10	17 9.35	-36 21.7	1.970	2.967	4.5	19.9
6 20	17 1.33	-11 48.4	2.449	3.433	5.0	21.6	6 20	16 58.90	-36 48.4	2.001	2.984	6.0	20.1
6 30	16 53.92	-12 9.7	2.491	3.430	7.7	21.8	6 30	16 49.67	-37 1.1	2.059	3.001	8.8	20.3
7 10	16 47.83	-12 37.4	2.558	3.426	10.3	22.0	7 10	16 42.54	-37 3.0	2.140	3.019	11.6	20.5
161064	2002 <i>JJ</i> ₁₀₇		6 9.2 340°02	9°3/ 9.8	16		160564	1998 <i>SL</i> ₈₈		6 9.2 284°17	0°6/ 9.1	18	
5 1	17 38.33	-39 49.5	1.485	2.292	18.8	19.3	5 1	17 36.61	-22 31.2	1.922	2.740	14.7	19.9
5 11	17 36.01	-41 16.9	1.403	2.281	16.0	19.1	5 11	17 32.88	-22 17.8	1.829	2.730	11.7	19.7
5 21	17 29.89	-42 34.4	1.339	2.271	13.0	18.9	5 21	17 26.69	-22 2.0	1.756	2.720	8.1	19.5
5 31	17 20.51	-43 33.5	1.296	2.261	10.4	18.7	5 31	17 18.59	-21 43.7	1.708	2.711	4.0	19.2
6 10	17 9.17	-44 7.0	1.276	2.253	9.4	18.6	6 10	17 9.46	-21 23.5	1.686	2.701	0.7	18.9
6 20	16 57.63	-44 11.5	1.278	2.245	10.5	18.7	6 20	17 0.34	-21 2.8	1.691	2.691	4.8	19.2
6 30	16 47.81	-43 49.1	1.301	2.238	13.3	18.8	6 30	16 52.29	-20 43.7	1.722	2.682	9.0	19.4
7 10	16 41.21	-43 7.1	1.345	2.232	16.5	19.0	7 10	16 46.16	-20 28.4	1.777	2.672	12.7	19.6
496922	2001 <i>TS</i> ₂₆₀		6 9.2 219°99	0°6/ 9.3	17		297799	2001 <i>YM</i> ₁₁₀		6 9.2 217°81	0°8/ 9.1	18	
5 1	17 40.51	-24 0.0	2.095	2.898	14.2	23.3	5 1	17 36.77	-19 31.1	2.893	3.687	10.9	21.7
5 11	17 35.79	-24 13.3	1.998	2.891	11.3	23.1	5 11	17 32.08	-19 39.3	2.790	3.678	8.6	21.5
5 21	17 28.61	-24 25.0	1.922	2.882	7.8	22.9	5 21	17 25.67	-19 48.2	2.711	3.669	5.9	21.4
5 31	17 19.49	-24 33.8	1.872	2.873	3.9	22.6	5 31	17 17.95	-19 57.7	2.658	3.659	3.0	21.1
6 10	17 9.29	-24 38.7	1.849	2.864	0.7	22.3	6 10	17 9.52	-20 7.6	2.634	3.648	0.8	21.0
6 20	16 59.04	-24 39.6	1.854	2.854	4.5	22.6	6 20	17 1.05	-20 17.9	2.640	3.638	3.6	21.2
6 30	16 49.81	-24 37.5	1.886	2.843	8.5	22.8	6 30	16 53.24	-20 28.9	2.674	3.626	6.6	21.3
7 10	16 42.47	-24 34.7	1.943	2.832	12.1	23.0	7 10	16 46.69	-20 41.2	2.735	3.614	9.3	21.5
45143	1999 <i>XO</i> ₁₀₃		6 9.2 191°08	0°8/ 9.3	18		435825	2008 <i>WL</i> ₆₅		6 9.2 169°22	1°5/ 9.5	17	
5 1	17 38.39	-25 10.5	2.186	2.991	13.6	19.6	5 1	17 39.17	-27 18.0	2.098	2.902	14.1	21.8
5 11	17 33.93	-25 17.3	2.097	2.990	10.8	19.4	5 11	17 34.67	-27 27.2	2.012	2.904	11.2	21.6
5 21	17 27.19	-25 21.2	2.029	2.989	7.5	19.2	5 21	17 27.78	-27 32.0	1.947	2.905	7.9	21.4
5 31	17 18.73	-25 21.2	1.987	2.988	3.8	18.9	5 31	17 19.07	-27 30.9	1.907	2.907	4.2	21.2
6 10	17 9.37	-25 16.6	1.972	2.986	0.8	18.7	6 10	17 9.43	-27 23.0	1.894	2.908	1.6	21.0
6 20	17 0.08	-25 8.0	1.985	2.985	4.3	18.9	6 20	16 59.89	-27 8.9	1.909	2.908	4.5	21.2
6 30	16 51.79	-24 56.8	2.025	2.983	8.0	19.2	6 30	16 51.45	-26 50.6	1.951	2.909	8.2	21.4
7 10	16 45.30	-24 45.2	2.089	2.980	11.3	19.4	7 10	16 44.94	-26 30.8	2.017	2.909	11.5	21.6
504954	2011 <i>FV</i> ₄₁		6 9.2 32°14	3°0/ 9.0	17		163303	2002 <i>JS</i> ₁₅		6 9.2 338°96	1°5/ 9.2	18	
5 1	17 37.78	-14 31.1	1.625	2.448	16.8	20.6	5 1	17 33.69	-16 39.6	1.359	2.204	18.3	18.9
5 11	17 34.01	-14 40.0	1.549	2.452	13.4	20.4	5 11	17 31.69	-17 14.6	1.271	2.188	14.6	18.6
5 21	17 27.53	-14 55.4	1.494	2.456	9.4	20.1	5 21	17 26.56	-17 58.4	1.202	2.172	10.3	18.3
5 31	17 18.98	-15 17.8	1.461	2.460	5.3	19.9	5 31	17 18.80	-18 50.6	1.155	2.158	5.3	18.0
6 10	17 9.35	-15 47.1	1.454	2.465	3.0	19.9	6 10	17 9.44	-19 49.3	1.131	2.145	1.6	17.7
6 20	16 59.81	-16 22.3	1.473	2.470	6.0	20.0	6 20	16 59.83	-20 51.7	1.131	2.133	6.2	18.0
6 30	16 51.52	-17 2.6	1.517	2.475	10.1	20.2	6 30	16 51.48	-21 55.1	1.154	2.123	11.3	18.2
7 10	16 45.41	-17 46.9	1.584	2.480	13.9	20.5	7 10	16 45.66	-22 58.1	1.199	2.114	16.0	18.5
85435	1997 <i>EU</i> ₃		6 9.2 22°61	0°5/ 9.1	17		251797	1999 <i>TS</i> ₂₁		6 9.2 259°39	4°0/ 9.5	18	
5 1	17 37.32	-22 33.9	1.111	1.965	20.9	19.3	5 1	17 40.19	-33 18.9	2.673	3.452	12.1	21.3
5 11	17 34.91	-22 29.2	1.047	1.969	16.5	19.1	5 11	17 35.38	-34 12.9	2.565	3.435	9.9	21.1
5 21	17 28.79	-22 22.3	1.000	1.973	11.4	18.8	5 21	17 28.31	-35 3.0	2.479	3.418	7.4	20.9
5 31	17 19.77	-22 12.9	0.974	1.979	5.6	18.5	5 31	17 19.41	-35 45.6	2.420	3.401	5.1	20.7
6 10	17 9.30	-22 1.2	0.970	1.985	0.7	18.1	6 10	17 9.40	-36 17.9	2.388	3.384	4.0	20.6
6 20	16 59.09	-21 48.8	0.988	1.992	6.6	18.6	6 20	16 59.18	-36 38.2	2.385	3.367	5.3	20.7
6 30	16 50.82	-21 38.3	1.029	1.999	12.2	18.9	6 30	16 49.72	-36 46.8	2.409	3.349	7.8	20.8
7 10	16 45.64	-21 32.7	1.089	2.007	17.0	19.2	7 10	16 41.87	-36 46.0	2.459	3.331	10.5	20.9
234644	2002 <i>CG</i> ₁₈₀		6 9.2 208°56	5°4/ 10.5	18		302384	2002 <i>CO</i> ₆₄		6 9.2 108°59	1°7/ 8.9	18	
5 1	17 43.17	-37 46.4	2.076	2.855	15.1	21.3	5 1	17 36.65	-16 39.3	2.565	3.363	12.0	20.7
5 11	17 38.24	-38 12.3	1.985	2.851	12.5	21.1	5 11	17 31.99	-16 44.8	2.488	3.378	9.5	20.5
5 21	17 30.44	-38 27.6	1.914	2.847	9.6	20.9	5 21	17 25.57	-16 52.8	2.434	3.392	6.5	20.4
5 31	17 20.42	-38 27.9	1.867	2.843	6.8	20.7	5 31	17 17.87	-17 3.3	2.406	3.405	3.5	20.2
6 10	17 9.25	-38 10.7	1.846	2.838	5.4	20.6	6 10	17 9.57	-17 16.4	2.407	3.419	1.7	20.1
6 20	16 58.18	-37 36.2	1.851	2.833	6.6	20.7	6 20	17 1.38	-17 32.0	2.437	3.432	4.1	20.3
6 30	16 48.46	-36 47.6	1.883	2.827	9.4	20.9	6 30	16 54.03	-17 50.1	2.494	3.445	7.0	20.5
7 10	16 41.06	-35 50.4	1.939	2.822	12.4	21.0	7 10	16 48.10	-18 11.0	2.577	3.458	9.8	20.7
387229	2012 <i>UW</i> ₃₈		6 9.2 239°96	2°1/ 9.7	17		135571	2002 <i>GG</i> ₃₂					

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
431100	2006 <i>EL</i> ₄		6 9.2 290°72	4°0/ 8.5 18			68151	2001 <i>AO</i> ₄₉		6 9.2 174°17	2°5/ 8.7 18		
5 1	17 35.93	-13 53.6	1.804	2.623	15.5	21.4	5 1	17 37.59	-16 58.0	2.134	2.942	13.8	20.5
5 11	17 32.40	-13 29.4	1.714	2.613	12.5	21.2	5 11	17 33.19	-16 35.0	2.049	2.944	11.0	20.3
5 21	17 26.41	-13 9.0	1.644	2.603	9.0	21.0	5 21	17 26.65	-16 13.2	1.986	2.945	7.7	20.1
5 31	17 18.49	-12 54.7	1.598	2.593	5.5	20.7	5 31	17 18.50	-15 53.7	1.948	2.946	4.3	19.9
6 10	17 9.51	-12 48.2	1.578	2.583	4.0	20.6	6 10	17 9.56	-15 37.9	1.937	2.947	2.6	19.8
6 20	17 0.50	-12 50.8	1.584	2.573	6.5	20.7	6 20	17 0.70	-15 26.9	1.954	2.947	5.1	19.9
6 30	16 52.54	-13 3.1	1.614	2.564	10.2	20.9	6 30	16 52.83	-15 22.0	1.998	2.947	8.6	20.1
7 10	16 46.49	-13 25.0	1.668	2.554	13.8	21.1	7 10	16 46.66	-15 23.9	2.065	2.947	11.8	20.3
428173	2006 <i>TZ</i> ₂₁		6 9.2 243°68	0°4/ 9.3 17			505524	2013 <i>YU</i> ₂₄		6 9.2 212°52	0°1/ 9.2 17		
5 1	17 40.97	-23 31.5	1.892	2.701	15.2	22.2	5 1	17 39.57	-22 40.8	2.221	3.024	13.5	22.6
5 11	17 36.54	-23 41.2	1.791	2.687	12.2	21.9	5 11	17 34.86	-22 41.2	2.125	3.018	10.7	22.4
5 21	17 29.39	-23 49.4	1.711	2.673	8.5	21.7	5 21	17 27.89	-22 40.1	2.050	3.011	7.4	22.2
5 31	17 20.02	-23 54.9	1.656	2.658	4.2	21.4	5 31	17 19.16	-22 36.9	2.001	3.003	3.6	21.9
6 10	17 9.38	-23 56.7	1.627	2.642	0.5	21.1	6 10	17 9.50	-22 31.3	1.980	2.995	0.4	21.6
6 20	16 58.59	-23 54.7	1.626	2.626	5.0	21.4	6 20	16 59.82	-22 23.9	1.987	2.987	4.3	22.0
6 30	16 48.88	-23 50.4	1.651	2.609	9.4	21.6	6 30	16 51.10	-22 16.0	2.022	2.978	8.1	22.2
7 10	16 41.27	-23 46.1	1.699	2.592	13.3	21.8	7 10	16 44.13	-22 9.5	2.081	2.968	11.5	22.4
60665	2000 <i>FL</i> ₇₃		6 9.2 300°81	1°5/ 9.4 18			398458	2011 <i>UC</i> ₈₃		6 9.2 65°10	2°8/ 8.1 17		
5 1	17 37.44	-26 15.3	1.524	2.354	17.4	19.1	5 1	17 36.22	-18 30.3	2.234	3.043	13.2	20.5
5 11	17 34.59	-26 24.1	1.424	2.331	14.0	18.8	5 11	17 31.80	-17 26.7	2.163	3.058	10.4	20.4
5 21	17 28.54	-26 28.8	1.343	2.309	9.9	18.5	5 21	17 25.48	-16 21.6	2.115	3.074	7.2	20.2
5 31	17 19.79	-26 27.2	1.285	2.287	5.2	18.2	5 31	17 17.82	-15 17.5	2.093	3.090	4.1	20.0
6 10	17 9.40	-26 18.1	1.250	2.264	1.5	17.9	6 10	17 9.63	-14 17.4	2.099	3.106	2.9	20.0
6 20	16 58.76	-26 1.5	1.241	2.243	5.9	18.1	6 20	17 1.69	-13 24.1	2.133	3.122	5.2	20.1
6 30	16 49.39	-25 40.0	1.255	2.221	10.9	18.3	6 30	16 54.78	-12 40.1	2.194	3.138	8.3	20.4
7 10	16 42.55	-25 17.7	1.291	2.200	15.6	18.5	7 10	16 49.47	-12 6.8	2.280	3.154	11.1	20.6
343947	2011 <i>KX</i> ₂₅		6 9.2 241°23	2°1/ 8.9 18			367092	2006 <i>QF</i> ₉₇		6 9.2 238°56	1°4/ 8.9 18		
5 1	17 37.60	-16 42.9	1.979	2.791	14.6	20.4	5 1	17 40.61	-19 52.6	1.966	2.774	14.8	22.0
5 11	17 33.50	-16 43.4	1.890	2.787	11.6	20.2	5 11	17 36.05	-19 40.7	1.864	2.760	11.8	21.8
5 21	17 27.05	-16 47.0	1.821	2.782	8.1	20.0	5 21	17 28.93	-19 28.2	1.783	2.744	8.2	21.5
5 31	17 18.77	-16 54.1	1.778	2.777	4.4	19.8	5 31	17 19.77	-19 15.6	1.727	2.728	4.2	21.2
6 10	17 9.51	-17 5.1	1.761	2.772	2.2	19.6	6 10	17 9.45	-19 3.2	1.698	2.711	1.5	21.0
6 20	17 0.25	-17 19.9	1.771	2.767	5.2	19.8	6 20	16 59.01	-18 52.2	1.696	2.694	5.2	21.2
6 30	16 51.98	-17 38.9	1.808	2.762	9.0	20.0	6 30	16 49.59	-18 44.2	1.721	2.676	9.4	21.4
7 10	16 45.54	-18 2.1	1.868	2.757	12.5	20.2	7 10	16 42.10	-18 40.8	1.770	2.657	13.2	21.6
215450	2002 <i>OC</i> ₁₆		6 9.2 325°38	2°6/ 8.5 17			137859	2000 <i>AX</i> ₆₁		6 9.2 158°17	3°2/ 9.9 18		
5 1	17 36.01	-21 1.8	1.360	2.202	18.4	19.8	5 1	17 42.49	-31 22.8	1.800	2.603	16.2	19.8
5 11	17 33.32	-20 11.5	1.278	2.193	14.7	19.6	5 11	17 37.82	-31 35.7	1.718	2.606	13.0	19.6
5 21	17 27.47	-19 16.1	1.215	2.185	10.2	19.3	5 21	17 30.22	-31 40.6	1.656	2.610	9.4	19.4
5 31	17 19.13	-18 18.0	1.174	2.177	5.4	19.0	5 31	17 20.38	-31 34.6	1.618	2.613	5.5	19.2
6 10	17 9.48	-17 20.6	1.157	2.169	2.7	18.8	6 10	17 9.42	-31 16.1	1.607	2.615	3.2	19.0
6 20	16 59.91	-16 28.5	1.164	2.162	6.8	19.0	6 20	16 58.64	-30 45.9	1.621	2.618	5.6	19.2
6 30	16 51.83	-15 46.1	1.194	2.156	11.8	19.3	6 30	16 49.30	-30 7.6	1.662	2.620	9.4	19.4
7 10	16 46.32	-15 16.6	1.245	2.150	16.3	19.5	7 10	16 42.35	-29 25.9	1.726	2.621	13.0	19.6
497541	2006 <i>CV</i> ₁₈		6 9.2 86°76	4°8/10.1 17			310517	2000 <i>XS</i> ₄₈		6 9.2 285°32	5°2/ 8.9 18		
5 1	17 44.39	-32 49.5	1.400	2.216	19.3	21.6	5 1	17 42.73	-33 49.5	2.306	3.088	13.7	19.6
5 11	17 40.09	-33 20.6	1.334	2.228	15.6	21.4	5 11	17 37.99	-35 11.9	2.198	3.069	11.3	19.4
5 21	17 32.14	-33 41.9	1.286	2.240	11.4	21.2	5 21	17 30.52	-36 32.0	2.113	3.049	8.7	19.2
5 31	17 21.39	-33 48.5	1.260	2.251	7.2	21.0	5 31	17 20.71	-37 44.5	2.053	3.030	6.2	19.1
6 10	17 9.30	-33 37.4	1.257	2.263	4.8	20.9	6 10	17 9.37	-38 44.5	2.021	3.011	5.3	19.0
6 20	16 57.56	-33 9.4	1.280	2.274	7.0	21.0	6 20	16 57.60	-39 28.5	2.017	2.992	6.7	19.0
6 30	16 47.80	-32 29.0	1.327	2.286	11.1	21.3	6 30	16 46.66	-39 56.0	2.040	2.972	9.4	19.1
7 10	16 41.12	-31 43.2	1.395	2.297	15.1	21.6	7 10	16 37.66	-40 9.5	2.086	2.953	12.3	19.3
497730	2006 <i>SP</i> ₁₇₈		6 9.2 169°48	4°1/ 8.4 17			360025	2013 <i>AA</i> ₂₁		6 9.2 339°12	3°8/10.3 18		
5 1	17 39.29	-14 12.4	1.835	2.647	15.6	22.1	5 1	17 37.24	-34 12.2	2.078	2.876	14.5	20.3
5 11	17 34.83	-13 35.6	1.755	2.649	12.5	21.9	5 11	17 33.41	-34 21.8	1.988	2.871	11.8	20.1
5 21	17 27.92	-13 1.7	1.695	2.652	9.0	21.7	5 21	17 27.07	-34 22.2	1.920	2.867	8.7	19.9
5 31	17 19.16	-12 33.0	1.660	2.654	5.5	21.5	5 31	17 18.80	-34 10.9	1.875	2.864	5.6	19.7
6 10	17 9.49	-12 11.7	1.651	2.655	4.1	21.4	6 10	17 9.56	-33 46.5	1.857	2.860	3.8	19.6
6 20	16 59.94	-11 59.8	1.669	2.656	6.6	21.5	6 20	17 0.43	-33 10.0	1.865	2.857	5.4	19.7
6 30	16 51.55	-11 58.3	1.713	2.657	10.1	21.7	6 30	16 52.49	-32 24.4	1.899	2.854	8.6	19.9
7 10	16 45.12	-12 7.3	1.779	2.657	13.5	22.0	7 10	16 46.58	-31 34.4	1.957	2.852	11.7	20.0
25101	1998 <i>RJ</i> ₄₈		6 9.2 86°09	6°3/10.6 18			259201	2003 <i>AN</i> ₄₈		6 9.2 121°24	2°4/ 9.1 17		
5 1	17 42.29	-39 8.1	1.974	2.755	15.7	18.2	5 1	17 42.27	-14 44.6	2.037	2.836	14.7	20.8
5 11	17 37.71	-39 50.1	1.897	2.761	13.1	18.1	5 11	17 36.83	-14 55.8	1.965	2.853	11.6	20.7
5 21	17 30.17	-40 20.7	1.839	2.767	10.2	17.9	5 21	17 29.11	-15 11.9	1.914	2.870	8.1	20.5
5 31	17 20.35	-40 35.2	1.804	2.774	7.6	17.7	5 31	17 19.70	-15 32.8	1.889	2.886	4.5	20.3
6 10	17 9.39	-40 30.4	1.795	2.780	6.3	17.7	6 10	17 9.50	-15 58.1	1.892	2.902	2.5	20.2
6 20	16 58.61	-40 6.4	1.811	2.786	7.3	17.7	6 20	16 59.48	-16 27.2	1.923	2.917	5.1	20.4
6 30	16 49.31	-39 26.2	1.853	2.792	9.8	17.9	6 30	16 50.59	-16 59.6	1.981	2.931	8.6	20.6
7 10	16 42.44	-38 35.7	1.917	2.798	12.6	18.1	7 10	16 43.57	-17 34.8	2.065	2.945	11.8	20.8
518179	2016 <i>NW</i> ₇₀		6 9.2 294°86	3°5/ 8.6 17			119377	2001 <i>SK</i> ₃₁₈					

EPHEMERIDES

6 9.2

6 9.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
190635	2000 <i>WX</i> ₁₄₈		6 9.2 265°09	5°4/ 8.3	17		383319	2006 <i>HO</i> ₁₀₂		6 9.2 202°75	0°1/ 9.3	17	
5 1	17 38.04	- 8 33.7	2.078	2.875	14.5	21.2	5 1	17 38.48	-22 12.1	2.033	2.843	14.3	21.2
5 11	17 33.84	- 8 9.6	1.972	2.853	11.9	21.0	5 11	17 34.23	-22 29.5	1.945	2.842	11.3	21.0
5 21	17 27.34	- 7 52.5	1.886	2.830	9.1	20.7	5 21	17 27.58	-22 47.0	1.879	2.841	7.8	20.8
5 31	17 19.00	- 7 45.1	1.825	2.807	6.4	20.5	5 31	17 19.09	-23 3.3	1.838	2.840	3.9	20.5
6 10	17 9.56	- 7 49.7	1.790	2.783	5.5	20.4	6 10	17 9.62	-23 17.6	1.824	2.839	0.3	20.2
6 20	16 59.93	- 8 7.2	1.782	2.758	7.3	20.5	6 20	17 0.15	-23 29.5	1.837	2.838	4.5	20.6
6 30	16 51.09	- 8 37.8	1.800	2.733	10.4	20.6	6 30	16 51.72	-23 39.6	1.877	2.836	8.4	20.8
7 10	16 43.92	- 9 20.2	1.841	2.708	13.7	20.8	7 10	16 45.17	-23 49.3	1.941	2.835	11.9	21.0
372382	2009 <i>PA</i> ₁₄		6 9.2 317°25	0°1/ 9.3	17		5966	Tomeko		6 9.2 292°44	0°8/ 9.4	18	
5 1	17 36.07	-25 22.7	1.395	2.234	18.2	20.7	5 1	17 36.37	-24 50.3	2.150	2.961	13.6	17.4
5 11	17 33.55	-25 0.6	1.307	2.220	14.6	20.4	5 11	17 32.54	-25 2.0	2.055	2.952	10.8	17.2
5 21	17 27.78	-24 31.5	1.237	2.206	10.1	20.1	5 21	17 26.42	-25 11.5	1.981	2.943	7.5	17.0
5 31	17 19.38	-23 55.0	1.188	2.192	5.1	19.8	5 31	17 18.53	-25 17.7	1.932	2.934	3.8	16.7
6 10	17 9.52	-23 12.1	1.164	2.179	0.4	19.4	6 10	17 9.67	-25 19.8	1.911	2.925	0.9	16.5
6 20	16 59.64	-22 25.6	1.164	2.167	6.0	19.8	6 20	17 0.78	-25 17.9	1.916	2.916	4.3	16.7
6 30	16 51.22	-21 40.3	1.187	2.155	11.2	20.0	6 30	16 52.83	-25 13.2	1.948	2.908	8.1	16.9
7 10	16 45.44	-21 0.7	1.232	2.144	15.9	20.3	7 10	16 46.65	-25 7.6	2.005	2.899	11.5	17.1
330674	2008 <i>GN</i> ₁₄₃		6 9.2 69°47	2°9/ 9.3	16		158434	2002 <i>CP</i> ₁₈		6 9.2 179°16	3°8/ 9.9	18	
5 1	17 44.51	-26 15.4	1.515	2.332	18.0	20.8	5 1	17 39.52	-34 25.1	2.649	3.427	12.2	20.9
5 11	17 39.71	-27 17.1	1.454	2.353	14.3	20.6	5 11	17 34.70	-35 2.0	2.559	3.428	10.0	20.8
5 21	17 31.66	-28 17.1	1.413	2.374	10.0	20.4	5 21	17 27.72	-35 32.5	2.490	3.429	7.5	20.6
5 31	17 21.13	-29 10.6	1.396	2.394	5.5	20.2	5 31	17 19.11	-35 53.9	2.448	3.429	5.0	20.4
6 10	17 9.41	-29 53.6	1.404	2.415	2.9	20.1	6 10	17 9.63	-36 4.1	2.432	3.429	3.8	20.4
6 20	16 57.95	-30 23.8	1.438	2.435	6.0	20.3	6 20	17 0.16	-36 2.6	2.445	3.429	5.1	20.4
6 30	16 48.19	-30 42.6	1.498	2.456	10.2	20.6	6 30	16 51.61	-35 50.9	2.485	3.428	7.5	20.6
7 10	16 41.15	-30 53.1	1.580	2.476	13.9	20.9	7 10	16 44.72	-35 31.7	2.550	3.427	10.0	20.8
74819	1999 <i>TG</i> ₁₁		6 9.2 292°05	9°9/ 9.4	18		107162	2001 <i>BV</i> ₁₉		6 9.3 114°79	3°5/ 8.5	17	
5 1	17 44.95	-44 0.4	1.876	2.642	16.9	19.2	5 1	17 40.44	-16 31.9	1.654	2.472	16.7	20.2
5 11	17 41.11	-45 29.7	1.772	2.616	14.8	19.0	5 11	17 35.92	-15 50.2	1.584	2.484	13.3	20.0
5 21	17 33.50	-46 49.7	1.687	2.591	12.5	18.7	5 21	17 28.75	-15 9.9	1.534	2.495	9.3	19.8
5 31	17 22.51	-47 51.9	1.624	2.565	10.6	18.6	5 31	17 19.62	-14 33.0	1.509	2.506	5.4	19.6
6 10	17 9.26	-48 28.7	1.585	2.539	9.9	18.5	6 10	17 9.61	-14 2.2	1.509	2.517	3.6	19.5
6 20	16 55.44	-48 35.4	1.569	2.513	10.9	18.5	6 20	16 59.86	-13 39.8	1.535	2.527	6.5	19.7
6 30	16 42.98	-48 13.0	1.576	2.487	13.1	18.5	6 30	16 51.48	-13 27.5	1.587	2.537	10.4	20.0
7 10	16 33.55	-47 27.9	1.604	2.461	15.8	18.6	7 10	16 45.30	-13 25.9	1.661	2.546	14.0	20.2
290426	2005 <i>TO</i> ₉₀		6 9.2 209°12	3°3/10.2	18		512578	2016 <i>SH</i> ₃₇		6 9.3 178°70	2°7/ 8.3	17	
5 1	17 38.67	-34 29.3	2.812	3.589	11.6	21.5	5 1	17 34.51	-15 24.9	2.790	3.588	11.2	21.7
5 11	17 33.86	-34 46.6	2.714	3.584	9.5	21.4	5 11	17 30.25	-14 50.3	2.701	3.589	8.9	21.5
5 21	17 27.05	-34 56.9	2.639	3.578	7.0	21.0	5 21	17 24.39	-14 16.8	2.636	3.590	6.3	21.4
5 31	17 18.73	-34 58.1	2.589	3.573	4.6	21.0	5 31	17 17.38	-13 45.7	2.596	3.590	3.8	21.2
6 10	17 9.62	-34 48.9	2.567	3.567	3.3	20.9	6 10	17 9.80	-13 18.7	2.586	3.590	2.7	21.1
6 20	17 0.56	-34 29.4	2.573	3.560	4.6	20.9	6 20	17 2.30	-12 57.2	2.603	3.590	4.6	21.3
6 30	16 52.36	-34 1.5	2.607	3.553	7.0	21.2	6 30	16 55.51	-12 42.2	2.649	3.590	7.2	21.4
7 10	16 45.71	-33 28.0	2.667	3.546	9.5	21.3	7 10	16 49.98	-12 34.5	2.720	3.589	9.7	21.6
200729	2001 <i>VR</i> ₅₀		6 9.2 236°45	2°3/ 9.7	17		86159	1999 <i>RB</i> ₂₀₄		6 9.3 250°68	3°3/10.2	18	
5 1	17 42.81	-29 13.8	1.598	2.412	17.4	20.9	5 1	17 37.96	-33 53.4	2.436	3.223	12.9	19.7
5 11	17 38.58	-29 13.3	1.506	2.403	14.0	20.7	5 11	17 33.59	-34 1.3	2.342	3.219	10.5	19.6
5 21	17 31.09	-29 4.9	1.434	2.393	10.0	20.4	5 21	17 27.01	-34 1.2	2.270	3.214	7.7	19.4
5 31	17 20.98	-28 46.0	1.385	2.384	5.5	20.1	5 31	17 18.76	-33 50.9	2.222	3.210	4.9	19.2
6 10	17 9.43	-28 15.4	1.361	2.373	2.3	19.9	6 10	17 9.68	-33 29.5	2.202	3.205	3.3	19.1
6 20	16 57.90	-27 34.6	1.363	2.363	5.8	20.1	6 20	17 0.68	-32 57.6	2.209	3.200	4.8	19.2
6 30	16 47.85	-26 47.7	1.390	2.352	10.5	20.3	6 30	16 52.68	-32 17.7	2.243	3.196	7.6	19.3
7 10	16 40.45	-26 0.3	1.440	2.340	14.8	20.6	7 10	16 46.44	-31 33.5	2.303	3.191	10.5	19.5
308981	2006 <i>TM</i> ₁₂₃		6 9.2 215°41	1°1/ 9.1	18		274097	2008 <i>CS</i> ₁₃₅		6 9.3 178°69	1°6/ 8.9	17	
5 1	17 36.31	-18 42.2	2.532	3.334	12.1	21.1	5 1	17 41.02	-19 0.6	1.944	2.752	15.0	21.9
5 11	17 31.98	-18 51.8	2.438	3.330	9.5	20.9	5 11	17 36.21	-18 51.4	1.858	2.754	11.9	21.7
5 21	17 25.75	-19 3.0	2.367	3.326	6.6	20.7	5 21	17 28.93	-18 42.7	1.794	2.755	8.2	21.4
5 31	17 18.10	-19 15.6	2.321	3.322	3.3	20.5	5 31	17 19.76	-18 35.0	1.755	2.755	4.2	21.2
6 10	17 9.68	-19 29.5	2.304	3.318	1.1	20.3	6 10	17 9.62	-18 28.7	1.742	2.755	1.7	21.0
6 20	17 1.26	-19 44.5	2.316	3.314	4.0	20.5	6 20	16 59.56	-18 24.5	1.757	2.755	5.1	21.2
6 30	16 53.60	-20 0.7	2.355	3.309	7.2	20.7	6 30	16 50.62	-18 23.7	1.799	2.753	9.0	21.5
7 10	16 47.37	-20 18.7	2.419	3.304	10.2	20.9	7 10	16 43.65	-18 27.4	1.865	2.752	12.6	21.7
16288	4169 <i>P-L</i>		6 9.2 312°51	0°9/ 9.0	18		512758	2016 <i>UP</i> ₄₆		6 9.3 292°45	1°8/ 9.7	18	
5 1	17 35.97	-22 38.9	1.674	2.502	16.1	18.5	5 1	17 36.74	-28 50.6	2.146	2.952	13.8	21.5
5 11	17 32.80	-22 14.4	1.583	2.490	12.8	18.2	5 11	17 32.91	-28 49.4	2.048	2.940	11.1	21.3
5 21	17 26.89	-21 46.2	1.512	2.479	8.9	18.0	5 21	17 26.71	-28 42.1	1.971	2.929	7.8	21.1
5 31	17 18.84	-21 14.6	1.465	2.468	4.4	17.7	5 31	17 18.70	-28 27.5	1.919	2.917	4.3	20.8
6 10	17 9.62	-20 41.0	1.442	2.457	1.0	17.4	6 10	17 9.71	-28 4.9	1.893	2.905	1.8	20.6
6 20	17 0.41	-20 7.6	1.446	2.447	5.4	17.7	6 20	17 0.73	-27 35.5	1.894	2.894	4.5	20.8
6 30	16 52.41	-19 37.6	1.475	2.437	10.0	17.9	6 30	16 52.76	-27 1.7	1.923	2.882	8.2	21.0
7 10	16 46.59	-19 13.7	1.526	2.427	14.0	18.1	7 10	16 46.63	-26 26.7	1.975	2.871	11.6	21.2
503974	2004 <i>SK</i> ₁₉		6 9.2 201°54	10°2/11.6	18		312914	2011 <i>VU</i> ₁₂		6 9.3 218°45	1°3		

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
246505	2008 BT ₂₆	6 9.3	5°12' 15.0"/18.2 16				58175	1990 SE ₁₅	6 9.3	318°45' 2.8"/ 8.5 18			
5 1	17 41.37	-58 15.5	1.370	2.112	23.1	18.1	5 1	17 32.11	-21 42.0	1.125	1.986	20.1	18.5
5 11	17 39.82	-58 50.7	1.307	2.112	21.1	17.9	5 11	17 31.29	-20 51.3	1.030	1.956	16.3	18.2
5 21	17 32.91	-58 53.9	1.258	2.115	19.0	17.8	5 21	17 26.85	-19 52.0	0.952	1.927	11.5	17.8
5 31	17 21.96	-58 15.0	1.224	2.121	16.9	17.7	5 31	17 19.27	-18 45.9	0.894	1.898	6.1	17.4
6 10	17 9.47	-56 48.7	1.208	2.128	15.4	17.6	6 10	17 9.69	-17 36.9	0.857	1.870	3.0	17.1
6 20	16 58.11	-54 36.9	1.212	2.137	15.0	17.6	6 20	16 59.73	-16 31.0	0.842	1.843	8.0	17.3
6 30	16 50.01	-51 49.9	1.236	2.148	15.8	17.7	6 30	16 51.23	-15 35.2	0.848	1.817	14.2	17.5
7 10	16 46.16	-48 43.4	1.282	2.162	17.6	17.8	7 10	16 45.72	-14 55.2	0.872	1.793	19.8	17.8
424083	2007 DR ₄₀	6 9.3	68°15' 13.3"/12.7 18				143830	2003 WV ₁₅₂	6 9.3	85°37' 13.5"/ 5.9 18			
5 1	17 46.49	+14 49.0	1.739	2.446	20.0	20.7	5 1	17 40.31	+ 7 11.5	1.710	2.468	18.6	19.8
5 11	17 40.16	+14 59.2	1.691	2.473	18.0	20.6	5 11	17 35.39	+ 9 22.7	1.673	2.495	16.5	19.7
5 21	17 31.32	+14 41.6	1.659	2.500	15.9	20.6	5 21	17 28.12	+11 14.0	1.655	2.521	14.7	19.6
5 31	17 20.77	+13 51.0	1.648	2.527	14.2	20.5	5 31	17 19.24	+12 37.1	1.658	2.547	13.7	19.6
6 10	17 9.57	+12 26.3	1.658	2.554	13.3	20.5	6 10	17 9.74	+13 26.6	1.684	2.572	13.6	19.7
6 20	16 58.87	+10 30.7	1.693	2.581	13.6	20.6	6 20	17 0.63	+13 41.3	1.730	2.597	14.4	19.8
6 30	16 49.66	+ 8 10.8	1.752	2.607	14.8	20.7	6 30	16 52.87	+13 23.1	1.797	2.621	15.8	19.9
7 10	16 42.66	+ 5 35.6	1.833	2.633	16.4	20.9	7 10	16 47.12	+12 37.6	1.882	2.645	17.3	20.1
126363	2002 AR ₁₈₂	6 9.3	185°40' 6.4"/10.9 18				467734	2009 PQ ₁₃	6 9.3	294°75' 1.4"/ 9.5 17			
5 1	17 45.77	-41 10.3	2.231	2.991	14.7	20.2	5 1	17 38.29	-26 58.5	1.551	2.377	17.3	21.6
5 11	17 40.28	-41 46.4	2.143	2.992	12.4	20.1	5 11	17 35.22	-26 55.8	1.451	2.357	13.9	21.4
5 21	17 31.89	-42 10.8	2.074	2.991	9.9	19.9	5 21	17 28.98	-26 47.0	1.371	2.336	9.8	21.1
5 31	17 21.28	-42 18.6	2.030	2.990	7.6	19.8	5 31	17 20.09	-26 30.2	1.313	2.315	5.1	20.7
6 10	17 9.52	-42 6.7	2.011	2.989	6.4	19.7	6 10	17 9.64	-26 4.8	1.280	2.294	1.4	20.4
6 20	16 57.88	-41 35.0	2.019	2.987	7.2	19.7	6 20	16 59.01	-25 31.7	1.271	2.273	5.7	20.7
6 30	16 47.64	-40 46.6	2.053	2.984	9.5	19.9	6 30	16 49.67	-24 54.6	1.288	2.253	10.8	20.9
7 10	16 39.74	-39 47.2	2.111	2.981	12.0	20.0	7 10	16 42.85	-24 18.1	1.325	2.233	15.3	21.1
313477	2002 TA ₁₈₀	6 9.3	321°67' 13.7"/ 6.6 16				107767	2001 FW ₄₀	6 9.3	74°68' 5.2"/10.2 17			
5 1	17 41.95	-45 35.8	1.532	2.315	19.4	19.8	5 1	17 41.71	-35 11.4	1.894	2.688	15.8	19.7
5 11	17 40.35	-47 46.3	1.419	2.269	17.5	19.6	5 11	17 37.27	-35 56.1	1.819	2.697	12.9	19.5
5 21	17 34.27	-49 52.5	1.323	2.223	15.5	19.3	5 21	17 29.92	-36 32.1	1.765	2.707	9.8	19.3
5 31	17 23.61	-51 42.8	1.248	2.178	14.0	19.1	5 31	17 20.35	-36 55.1	1.734	2.716	6.7	19.2
6 10	17 9.25	-53 4.3	1.193	2.133	13.8	18.9	6 10	17 9.65	-37 1.9	1.729	2.725	5.2	19.1
6 20	16 53.16	-53 46.5	1.159	2.089	15.2	18.9	6 20	16 59.12	-36 52.1	1.750	2.734	6.6	19.2
6 30	16 38.21	-53 46.2	1.145	2.045	17.7	18.9	6 30	16 50.00	-36 28.5	1.796	2.744	9.5	19.4
7 10	16 27.15	-53 9.7	1.148	2.003	20.9	18.9	7 10	16 43.26	-35 55.9	1.866	2.753	12.6	19.6
502331	2015 BW ₁₇₁	6 9.3	194°44' 0.8"/ 9.1 17				397002	2005 SA ₂₈₉	6 9.3	54°46' 1.8"/ 9.2 17			
5 1	17 40.86	-21 5.2	2.045	2.850	14.4	22.5	5 1	17 37.92	-15 31.1	2.122	2.929	13.9	21.3
5 11	17 36.05	-21 0.3	1.954	2.848	11.4	22.3	5 11	17 33.45	-15 57.5	2.051	2.945	11.0	21.1
5 21	17 28.82	-20 54.7	1.885	2.846	7.9	22.1	5 21	17 26.85	-16 28.9	2.002	2.961	7.6	20.9
5 31	17 19.73	-20 48.1	1.841	2.843	3.9	21.9	5 31	17 18.70	-17 4.6	1.978	2.978	4.0	20.7
6 10	17 9.66	-20 40.7	1.824	2.839	0.9	21.6	6 10	17 9.79	-17 43.6	1.982	2.994	1.8	20.6
6 20	16 59.63	-20 33.0	1.836	2.835	4.7	21.9	6 20	17 1.02	-18 24.8	2.014	3.011	4.5	20.8
6 30	16 50.66	-20 26.7	1.874	2.830	8.6	22.1	6 30	16 53.25	-19 7.2	2.073	3.028	8.0	21.1
7 10	16 43.58	-20 23.3	1.936	2.824	12.2	22.3	7 10	16 47.19	-19 50.3	2.157	3.045	11.1	21.3
412450	2014 GS ₁₄	6 9.3	65°79' 1.5"/ 8.9 17				174864	2004 BV ₁₅	6 9.3	103°95' 1.2"/ 9.5 17			
5 1	17 36.41	-19 43.2	2.087	2.900	13.9	21.2	5 1	17 42.80	-25 55.3	1.718	2.529	16.5	21.1
5 11	17 32.25	-19 25.5	2.018	2.916	10.9	21.0	5 11	17 37.92	-26 4.3	1.649	2.545	13.0	20.9
5 21	17 25.99	-19 7.5	1.970	2.932	7.5	20.8	5 21	17 30.21	-26 9.4	1.600	2.561	9.0	20.7
5 31	17 18.22	-18 50.0	1.947	2.948	3.8	20.7	5 31	17 20.42	-26 8.6	1.575	2.576	4.6	20.4
6 10	17 9.80	-18 33.9	1.951	2.964	1.5	20.5	6 10	17 9.67	-26 1.4	1.577	2.591	1.2	20.2
6 20	17 1.58	-18 20.5	1.983	2.981	4.6	20.8	6 20	16 59.20	-25 48.3	1.605	2.605	5.0	20.5
6 30	16 54.44	-18 11.0	2.041	2.997	8.0	21.0	6 30	16 50.20	-25 31.9	1.659	2.620	9.2	20.8
7 10	16 49.02	-18 6.5	2.124	3.013	11.2	21.2	7 10	16 43.56	-25 15.2	1.737	2.633	12.9	21.1
498015	2007 EU ₁₉₃	6 9.3	93°76' 8.2"/ 7.2 17				158725	2003 KD ₃₅	6 9.3	177°14' 8.1"/ 5.5 18			
5 1	17 37.44	- 4 50.3	1.816	2.615	16.2	22.1	5 1	17 38.49	- 7 46.3	1.906	2.706	15.5	19.4
5 11	17 33.20	- 3 30.3	1.754	2.629	13.5	21.9	5 11	17 34.04	- 5 45.0	1.829	2.707	12.9	19.2
5 21	17 26.71	- 2 19.5	1.712	2.642	10.8	21.8	5 21	17 27.33	- 3 46.5	1.774	2.707	10.3	19.1
5 31	17 18.59	- 1 23.2	1.695	2.656	8.7	21.7	5 31	17 18.96	- 1 57.5	1.745	2.708	8.4	19.0
6 10	17 9.77	- 0 45.7	1.701	2.669	8.3	21.7	6 10	17 9.79	- 0 24.8	1.742	2.708	8.3	18.9
6 20	17 1.18	- 0 29.2	1.733	2.682	9.7	21.8	6 20	17 0.78	+ 0 46.6	1.766	2.708	10.0	19.0
6 30	16 53.76	- 0 33.8	1.789	2.695	12.1	21.9	6 30	16 52.85	+ 1 34.1	1.814	2.708	12.5	19.2
7 10	16 48.20	- 0 57.2	1.866	2.707	14.6	22.1	7 10	16 46.75	+ 1 58.0	1.883	2.707	15.1	19.4
362012	2008 WQ ₁₀₆	6 9.3	160°23' 3.5"/ 9.6 17				240009	2001 TC ₆₂	6 9.3	273°95' 4.6"/ 8.2 17			
5 1	17 44.17	-29 3.7	1.488	2.305	18.3	21.3	5 1	17 38.62	-15 56.7	1.449	2.280	18.0	20.7
5 11	17 39.89	-29 44.4	1.410	2.308	14.8	21.1	5 11	17 35.35	-15 6.8	1.357	2.263	14.6	20.5
5 21	17 32.13	-30 20.7	1.352	2.310	10.6	20.8	5 21	17 28.99	-14 16.7	1.283	2.246	10.5	20.2
5 31	17 21.58	-30 47.9	1.316	2.312	6.2	20.6	5 31	17 20.08	-13 29.5	1.232	2.229	6.4	19.9
6 10	17 9.52	-31 2.5	1.304	2.314	3.5	20.4	6 10	17 9.69	-12 49.2	1.205	2.212	4.7	19.7
6 20	16 57.52	-31 3.3	1.318	2.315	6.5	20.6	6 20	16 59.16	-12 19.3	1.203	2.194	7.9	19.9
6 30	16 47.18	-30 52.7	1.357	2.316	10.9	20.9	6 30	16 49.92	-12 2.9	1.224	2.176	12.5	20.1
7 10	16 39.69	-30 35.4	1.418	2.317	15.0	21.1	7 10	16 43.12	-12 1.3	1.266	2.159	16.9	20.3
377769	2005 YN ₁₂₉	6 9.3	136°53' 0.5"/ 9.2 17				519663	2012 XG ₁₅₆	6 9.3	254°91' 2.9"/10.1 18			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
99063	2001 FZ ₁		6 9.3 79°52	5°2/ 8.5	17		100875	1998 HW ₈₄		6 9.3 11°89	1°2/ 9.3	18	
5 1	17 38.65	- 9 31.8	1.938	2.740	15.2	19.1	5 1	17 37.61	-23 24.6	1.234	2.080	19.7	18.9
5 11	17 33.95	- 8 58.3	1.880	2.765	12.3	18.9	5 11	17 35.07	-23 57.0	1.165	2.081	15.7	18.7
5 21	17 27.11	- 8 32.1	1.843	2.790	9.1	18.8	5 21	17 29.01	-24 29.7	1.114	2.084	10.9	18.4
5 31	17 18.77	- 8 15.6	1.831	2.814	6.3	18.6	5 31	17 20.13	-25 0.1	1.083	2.087	5.5	18.1
6 10	17 9.83	- 8 10.7	1.845	2.838	5.3	18.6	6 10	17 9.73	-25 25.5	1.076	2.091	1.2	17.8
6 20	17 1.18	- 8 17.9	1.886	2.862	6.9	18.8	6 20	16 59.42	-25 44.6	1.092	2.095	6.2	18.2
6 30	16 53.68	- 8 36.8	1.952	2.886	9.7	19.0	6 30	16 50.84	-25 58.4	1.132	2.101	11.4	18.5
7 10	16 48.00	- 9 6.2	2.042	2.909	12.5	19.2	7 10	16 45.18	-26 9.2	1.191	2.107	16.0	18.8
507762	2013 YK ₈₈		6 9.3 187°98	1°0/ 9.1	17		463880	2014 UT ₅₁		6 9.3 176°38	1°4/ 8.9	17	
5 1	17 37.87	-19 41.6	2.103	2.912	13.9	21.4	5 1	17 41.67	-21 56.8	1.690	2.507	16.5	21.2
5 11	17 33.62	-19 44.4	2.016	2.912	11.0	21.2	5 11	17 37.11	-21 22.2	1.608	2.508	13.1	21.0
5 21	17 27.12	-19 48.2	1.950	2.912	7.6	21.0	5 21	17 29.75	-20 43.9	1.546	2.510	9.0	20.8
5 31	17 18.91	-19 52.6	1.910	2.911	3.8	20.8	5 31	17 20.26	-20 2.7	1.508	2.510	4.6	20.5
6 10	17 9.81	-19 57.7	1.896	2.911	1.1	20.6	6 10	17 9.73	-19 20.5	1.497	2.511	1.5	20.3
6 20	17 0.74	-20 3.6	1.911	2.910	4.5	20.8	6 20	16 59.36	-18 40.0	1.512	2.511	5.5	20.5
6 30	16 52.66	-20 11.1	1.952	2.909	8.3	21.0	6 30	16 50.36	-18 4.5	1.553	2.510	10.0	20.8
7 10	16 46.34	-20 21.1	2.017	2.908	11.6	21.3	7 10	16 43.63	-17 37.0	1.617	2.509	13.9	21.0
302037	2000 SL ₂₈₈		6 9.3 240°65	0°6/ 9.5	18		438236	2005 VS ₁		6 9.3 146°94	9°4/ 5.4	18	
5 1	17 37.43	-26 7.4	2.806	3.598	11.3	21.8	5 1	17 44.55	-14 52.8	1.117	1.956	21.8	20.7
5 11	17 32.80	-25 55.6	2.697	3.583	8.9	21.6	5 11	17 40.29	-12 3.8	1.051	1.959	17.7	20.4
5 21	17 26.33	-25 39.6	2.610	3.566	6.2	21.4	5 21	17 32.35	-9 7.3	1.005	1.963	13.4	20.2
5 31	17 18.46	-25 19.0	2.550	3.550	3.2	21.2	5 31	17 21.62	-6 15.2	0.981	1.965	10.0	20.0
6 10	17 9.85	-24 53.9	2.518	3.533	0.6	21.0	6 10	17 9.63	-3 41.7	0.981	1.968	9.8	20.0
6 20	17 1.21	-24 25.4	2.516	3.515	3.5	21.2	6 20	16 58.06	-1 39.1	1.005	1.970	13.0	20.1
6 30	16 53.31	-23 55.1	2.542	3.497	6.7	21.3	6 30	16 48.49	-0 14.6	1.050	1.972	17.1	20.4
7 10	16 46.79	-23 25.5	2.594	3.479	9.6	21.5	7 10	16 41.99	+0 32.0	1.114	1.974	21.1	20.6
475092	2005 UV ₁₉₄		6 9.3 264°95	0°2/ 9.3	17		179205	2001 TM ₁₈₅		6 9.3 179°35	1°6/ 9.7	18	
5 1	17 36.64	-23 25.5	2.556	3.356	12.0	21.8	5 1	17 38.32	-28 39.0	2.776	3.563	11.5	22.0
5 11	17 32.43	-23 32.9	2.446	3.338	9.5	21.6	5 11	17 33.48	-28 46.8	2.683	3.565	9.1	21.8
5 21	17 26.24	-23 39.0	2.359	3.319	6.6	21.4	5 21	17 26.77	-28 50.3	2.613	3.565	6.4	21.6
5 31	17 18.49	-23 43.0	2.298	3.300	3.3	21.1	5 31	17 18.67	-28 48.1	2.569	3.566	3.5	21.4
6 10	17 9.84	-23 44.5	2.265	3.280	0.3	20.8	6 10	17 9.88	-28 39.6	2.554	3.566	1.6	21.3
6 20	17 1.09	-23 43.6	2.261	3.261	3.8	21.1	6 20	17 1.14	-28 25.4	2.568	3.565	3.7	21.5
6 30	16 53.06	-23 41.3	2.284	3.241	7.2	21.3	6 30	16 53.23	-28 6.8	2.610	3.564	6.6	21.6
7 10	16 46.49	-23 38.9	2.333	3.221	10.4	21.4	7 10	16 46.79	-27 46.1	2.678	3.563	9.3	21.8
41420	2000 AQ ₂₄₀		6 9.3 271°01	6°9/ 6.9	18		491890	2013 BZ ₈₀		6 9.3 126°69	1°3/ 9.7	16	
5 1	17 35.77	- 7 24.8	2.032	2.833	14.6	19.4	5 1	17 37.35	-28 19.4	2.431	3.228	12.6	21.3
5 11	17 32.04	- 6 16.2	1.935	2.815	12.2	19.2	5 11	17 32.91	-28 10.0	2.345	3.233	10.0	21.1
5 21	17 26.10	- 5 12.3	1.859	2.797	9.6	19.0	5 21	17 26.46	-27 55.0	2.281	3.238	7.0	21.0
5 31	17 18.45	- 4 17.4	1.808	2.779	7.5	18.8	5 31	17 18.53	-27 33.7	2.244	3.242	3.7	20.8
6 10	17 9.85	- 3 35.9	1.782	2.760	7.0	18.8	6 10	17 9.90	-27 6.2	2.233	3.247	1.3	20.6
6 20	17 1.17	- 3 10.9	1.782	2.741	8.7	18.8	6 20	17 1.41	-26 33.9	2.252	3.251	3.9	20.8
6 30	16 53.35	- 3 4.0	1.806	2.722	11.4	19.0	6 30	16 53.90	-25 58.9	2.298	3.255	7.1	21.0
7 10	16 47.18	- 3 14.6	1.853	2.703	14.3	19.1	7 10	16 48.02	-25 24.3	2.369	3.259	10.1	21.2
294551	2007 YP ₂₂		6 9.3 178°60	0°9/ 9.1	17		74810	1999 TS ₄		6 9.3 346°25	21°4/ 26.9	17	
5 1	17 41.82	-21 2.6	1.928	2.735	15.1	22.2	5 1	17 27.17	+ 9 11.2	1.074	1.891	23.9	17.7
5 11	17 36.92	-20 54.5	1.842	2.737	12.0	22.0	5 11	17 26.81	+12 51.0	1.024	1.878	22.4	17.5
5 21	17 29.48	-20 45.5	1.778	2.739	8.3	21.8	5 21	17 23.31	+16 8.9	0.992	1.866	21.6	17.4
5 31	17 20.10	-20 35.4	1.738	2.739	4.1	21.6	5 31	17 17.31	+18 47.4	0.975	1.856	21.5	17.3
6 10	17 9.73	-20 24.5	1.725	2.739	1.0	21.3	6 10	17 9.98	+20 32.9	0.974	1.848	22.3	17.3
6 20	16 59.44	-20 13.7	1.740	2.739	4.9	21.6	6 20	17 2.69	+21 18.8	0.988	1.841	23.6	17.4
6 30	16 50.32	-20 4.8	1.781	2.737	9.0	21.8	6 30	16 56.85	+21 5.6	1.014	1.836	25.3	17.5
7 10	16 43.22	-19 59.4	1.847	2.735	12.6	22.1	7 10	16 53.55	+20 1.2	1.050	1.834	27.0	17.6
385837	2006 HP ₇₉		6 9.3 324°43	3°8/ 9.4	17		518360	2017 DZ ₆₅		6 9.3 55°58	6°8/ 6.1	18	
5 1	17 37.95	-28 27.6	1.640	2.462	16.7	20.2	5 1	17 27.61	+12 40.1	4.451	5.142	8.8	21.7
5 11	17 34.92	-29 27.1	1.548	2.448	13.5	20.0	5 11	17 24.34	+13 19.3	4.380	5.142	8.0	21.6
5 21	17 28.79	-30 25.5	1.475	2.434	9.8	19.7	5 21	17 20.15	+13 48.5	4.329	5.143	7.3	21.6
5 31	17 20.05	-31 18.5	1.425	2.421	5.9	19.5	5 31	17 15.31	+14 5.5	4.302	5.143	6.9	21.5
6 10	17 9.72	-32 1.6	1.400	2.408	3.8	19.3	6 10	17 10.16	+14 8.9	4.298	5.144	6.8	21.5
6 20	16 59.13	-32 32.0	1.401	2.396	6.4	19.4	6 20	17 5.05	+13 58.2	4.318	5.144	7.2	21.6
6 30	16 49.76	-32 49.7	1.426	2.385	10.5	19.6	6 30	17 0.33	+13 33.8	4.361	5.145	7.8	21.6
7 10	16 42.84	-32 57.6	1.473	2.374	14.5	19.8	7 10	16 56.31	+12 57.0	4.425	5.145	8.6	21.7
521366	2015 MW ₁₃₉		6 9.3 247°27	2°0/ 8.6	18		53594	2000 CJ ₆₂		6 9.3 123°33	1°8/ 9.6	18	
5 1	17 34.74	-18 15.3	2.573	3.376	11.8	21.9	5 1	17 43.14	-27 45.3	1.424	2.248	18.7	19.0
5 11	17 30.72	-17 46.0	2.475	3.368	9.4	21.7	5 11	17 38.96	-27 44.1	1.351	2.253	14.9	18.7
5 21	17 24.91	-17 16.3	2.400	3.359	6.5	21.5	5 21	17 31.39	-27 35.9	1.296	2.259	10.5	18.5
5 31	17 17.76	-16 47.2	2.351	3.350	3.6	21.3	5 31	17 21.19	-27 18.6	1.264	2.264	5.5	18.2
6 10	17 9.92	-16 20.1	2.330	3.341	2.0	21.2	6 10	17 9.70	-26 51.5	1.256	2.270	1.8	18.0
6 20	17 2.10	-15 56.5	2.338	3.331	4.4	21.3	6 20	16 58.47	-26 16.5	1.273	2.275	5.8	18.3
6 30	16 55.04	-15 37.9	2.373	3.322	7.4	21.5	6 30	16 48.99	-25 37.8	1.315	2.279	10.7	18.6
7 10	16 49.34	-15 25.4	2.433	3.312	10.3	21.7	7 10	16 42.33	-25 0.5	1.379	2.284	15.0	18.8
475172	2005 UC ₄₅₀		6 9.3 247°60	0°5/ 9.4	18		290614	2005 UH ₂₂₀		6 9.3 169°90	3°6/ 10.0	18	
5 1	17 36.79	-23 45.3	2										

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
339137	2004 SC ₄₈	6 9.3 248°02	2°4/ 8.5 18				49149	1998 SD ₄₉	6 9.3 273°03	2°0/ 8.9 18			
5 1	17 38.24	-19 11.6	2.083	2.892	14.1	20.8	5 1	17 39.03	-19 6.8	1.738	2.557	16.0	19.9
5 11	17 33.98	-18 26.9	1.984	2.879	11.2	20.6	5 11	17 35.31	-18 48.6	1.634	2.536	12.8	19.6
5 21	17 27.44	-17 39.8	1.906	2.866	7.8	20.3	5 21	17 28.81	-18 30.0	1.551	2.514	9.0	19.4
5 31	17 19.13	-16 51.7	1.853	2.852	4.3	20.1	5 31	17 20.02	-18 11.9	1.491	2.492	4.8	19.1
6 10	17 9.88	-16 5.0	1.828	2.838	2.5	19.9	6 10	17 9.87	-17 55.4	1.457	2.470	2.1	18.8
6 20	17 0.63	-15 22.4	1.831	2.824	5.4	20.1	6 20	16 59.50	-17 41.9	1.450	2.448	5.8	19.0
6 30	16 52.34	-14 46.7	1.860	2.809	9.1	20.3	6 30	16 50.18	-17 33.4	1.468	2.425	10.4	19.2
7 10	16 45.82	-14 19.9	1.913	2.794	12.6	20.5	7 10	16 42.99	-17 31.7	1.508	2.402	14.6	19.4
516213	2016 TO ₅₆	6 9.3 234°43	6°5/10.4 18				253590	2003 TE ₁₂	6 9.3 246°42	5°0/ 9.7 17			
5 1	17 45.25	-46 9.9	3.212	3.931	11.4	22.9	5 1	17 46.40	-33 28.1	1.975	2.761	15.5	22.1
5 11	17 39.43	-47 4.7	3.104	3.914	9.9	22.8	5 11	17 41.38	-34 21.8	1.867	2.742	12.8	21.9
5 21	17 31.21	-47 50.1	3.018	3.897	8.4	22.6	5 21	17 33.19	-35 10.7	1.780	2.721	9.7	21.7
5 31	17 21.04	-48 21.7	2.956	3.880	7.1	22.5	5 31	17 22.29	-35 49.6	1.716	2.700	6.5	21.4
6 10	17 9.74	-48 36.3	2.921	3.862	6.5	22.5	6 10	17 9.69	-36 13.7	1.680	2.678	5.0	21.3
6 20	16 58.27	-48 32.6	2.913	3.843	7.0	22.5	6 20	16 56.71	-36 20.6	1.670	2.655	6.8	21.3
6 30	16 47.67	-48 11.5	2.931	3.823	8.3	22.5	6 30	16 44.84	-36 11.2	1.687	2.631	10.2	21.5
7 10	16 38.82	-47 36.7	2.973	3.804	10.0	22.6	7 10	16 35.35	-35 50.0	1.727	2.607	13.8	21.7
120737	1997 TL ₁₇	6 9.3 206°32	2°6/ 8.5 18				500167	2012 FP ₁₉	6 9.3 351°90	0°1/ 9.3 17			
5 1	17 39.47	-18 32.7	2.101	2.907	14.1	20.1	5 1	17 34.21	-22 2.5	1.203	2.057	19.6	21.1
5 11	17 34.82	-17 46.8	2.009	2.903	11.2	19.9	5 11	17 32.49	-22 12.8	1.129	2.050	15.6	20.8
5 21	17 27.93	-16 59.2	1.939	2.898	7.8	19.7	5 21	17 27.34	-22 23.3	1.073	2.045	10.8	20.5
5 31	17 19.34	-16 11.4	1.894	2.892	4.3	19.5	5 31	17 19.40	-22 32.9	1.037	2.041	5.4	20.2
6 10	17 9.89	-15 26.0	1.877	2.886	2.7	19.4	6 10	17 9.92	-22 40.9	1.023	2.038	0.4	19.8
6 20	17 0.52	-14 45.4	1.888	2.880	5.4	19.5	6 20	17 0.45	-22 47.3	1.033	2.036	6.2	20.2
6 30	16 52.16	-14 12.4	1.926	2.873	9.0	19.7	6 30	16 52.60	-22 53.4	1.064	2.036	11.7	20.5
7 10	16 45.57	-13 48.5	1.988	2.865	12.3	19.9	7 10	16 47.59	-23 1.3	1.116	2.036	16.4	20.8
418913	2009 BU ₁₇₇	6 9.3 60°96	0°9/ 9.3 16				208529	2001 YS ₇₈	6 9.3 161°84	1°3/ 9.5 17			
5 1	17 41.61	-22 45.5	1.391	2.222	18.7	21.4	5 1	17 44.75	-25 56.7	1.856	2.658	15.8	21.9
5 11	17 37.86	-23 20.3	1.319	2.226	14.9	21.2	5 11	17 39.45	-26 9.3	1.774	2.665	12.6	21.7
5 21	17 30.75	-23 56.2	1.265	2.231	10.3	20.9	5 21	17 31.36	-26 18.5	1.713	2.671	8.7	21.5
5 31	17 20.97	-24 30.5	1.233	2.236	5.2	20.6	5 31	17 21.12	-26 22.1	1.676	2.676	4.5	21.3
6 10	17 9.76	-25 0.5	1.226	2.241	1.0	20.3	6 10	17 9.80	-26 18.9	1.667	2.681	1.3	21.0
6 20	16 58.63	-25 24.6	1.244	2.246	5.8	20.7	6 20	16 58.61	-26 9.2	1.685	2.684	4.9	21.3
6 30	16 49.11	-25 43.4	1.286	2.251	10.8	21.0	6 30	16 48.75	-25 55.2	1.730	2.687	9.1	21.5
7 10	16 42.35	-25 58.9	1.350	2.256	15.2	21.3	7 10	16 41.15	-25 39.9	1.798	2.690	12.8	21.8
98677	2000 WC ₁₇₃	6 9.3 185°68	3°4/ 9.1 18				114579	2003 BX ₇₅	6 9.3 349°71	4°9/ 9.9 18			
5 1	17 39.23	-12 3.1	2.000	2.803	14.8	18.8	5 1	17 39.60	-34 37.3	2.071	2.864	14.7	19.4
5 11	17 34.76	-12 12.9	1.914	2.803	11.9	18.6	5 11	17 35.54	-35 26.3	1.985	2.863	12.0	19.2
5 21	17 27.98	-12 29.9	1.849	2.803	8.5	18.4	5 21	17 28.79	-36 8.4	1.920	2.862	9.1	19.0
5 31	17 19.42	-12 55.0	1.809	2.803	5.2	18.2	5 31	17 19.92	-36 39.4	1.879	2.861	6.3	18.8
6 10	17 9.89	-13 28.1	1.796	2.802	3.5	18.0	6 10	17 9.90	-36 56.3	1.864	2.860	4.9	18.7
6 20	17 0.37	-14 8.3	1.811	2.802	5.7	18.2	6 20	16 59.87	-36 58.0	1.875	2.859	6.3	18.8
6 30	16 51.83	-14 54.6	1.852	2.801	9.2	18.4	6 30	16 51.01	-36 46.1	1.912	2.859	9.1	19.0
7 10	16 45.08	-15 45.6	1.917	2.800	12.5	18.6	7 10	16 44.26	-36 24.6	1.973	2.858	12.1	19.2
523139	2016 SR ₅₄	6 9.3 290°30	2°4/ 9.0 18				182215	2000 WP ₁₄₅	6 9.3 254°61	7°3/ 7.1 18			
5 1	17 35.85	-15 8.0	2.161	2.971	13.6	21.3	5 1	17 33.82	- 2 12.0	2.415	3.195	13.2	20.2
5 11	17 32.03	-15 12.5	2.067	2.962	10.9	21.1	5 11	17 30.06	- 1 14.8	2.328	3.188	11.2	20.0
5 21	17 26.08	-15 21.3	1.995	2.954	7.7	20.9	5 21	17 24.52	- 0 26.1	2.264	3.180	9.2	19.9
5 31	17 18.48	-15 35.1	1.948	2.945	4.3	20.7	5 31	17 17.65	+ 0 10.4	2.223	3.172	7.7	19.8
6 10	17 9.96	-15 53.8	1.927	2.937	2.5	20.5	6 10	17 10.09	+ 0 31.5	2.208	3.165	7.4	19.8
6 20	17 1.40	-16 17.4	1.934	2.929	5.0	20.7	6 20	17 2.54	+ 0 35.5	2.218	3.157	8.5	19.8
6 30	16 53.68	-16 45.7	1.967	2.921	8.4	20.9	6 30	16 55.74	+ 0 22.2	2.254	3.149	10.4	19.9
7 10	16 47.57	-17 18.3	2.025	2.913	11.7	21.1	7 10	16 50.29	- 0 7.0	2.312	3.140	12.5	20.0
475744	2006 WD ₉₉	6 9.3 219°62	0°7/ 9.1 18				93515	2000 TS ₆₂	6 9.3 266°92	1°6/ 9.6 18			
5 1	17 36.52	-21 33.2	2.798	3.594	11.2	22.9	5 1	17 39.31	-26 42.8	1.842	2.655	15.5	20.4
5 11	17 32.03	-21 20.2	2.696	3.586	8.8	22.7	5 11	17 35.40	-26 56.8	1.749	2.646	12.4	20.2
5 21	17 25.78	-21 5.8	2.618	3.576	6.1	22.5	5 21	17 28.76	-27 7.2	1.677	2.638	8.7	19.9
5 31	17 18.23	-20 49.9	2.566	3.567	3.0	22.3	5 31	17 19.94	-27 11.8	1.629	2.629	4.6	19.7
6 10	17 9.99	-20 33.2	2.542	3.557	0.7	22.1	6 10	17 9.91	-27 9.5	1.606	2.620	1.6	19.4
6 20	17 1.76	-20 16.5	2.548	3.546	3.6	22.3	6 20	16 59.83	-27 0.2	1.611	2.611	5.0	19.6
6 30	16 54.23	-20 1.2	2.582	3.535	6.7	22.5	6 30	16 50.93	-26 46.0	1.641	2.602	9.2	19.9
7 10	16 48.03	-19 48.5	2.642	3.524	9.5	22.7	7 10	16 44.18	-26 29.8	1.695	2.593	13.0	20.1
868	Lova	6 9.3 224°48	1°8/ 8.9 18				254116	2004 NL ₃₁	6 9.3 299°87	7°9/ 8.7 18			
5 1	17 38.22	-17 46.8	2.236	3.040	13.4	15.2	5 1	17 36.02	+ 0 48.1	2.219	2.990	14.5	20.0
5 11	17 33.82	-17 41.0	2.139	3.032	10.6	15.0	5 11	17 32.08	+ 1 5.8	2.122	2.973	12.4	19.8
5 21	17 27.27	-17 36.6	2.065	3.024	7.4	14.7	5 21	17 26.09	+ 1 10.0	2.045	2.956	10.3	19.7
5 31	17 19.05	-17 34.2	2.016	3.015	3.9	14.5	5 31	17 18.51	+ 0 57.1	1.991	2.939	8.5	19.5
6 10	17 9.94	-17 34.2	1.994	3.006	1.9	14.3	6 10	17 10.02	+ 0 24.8	1.962	2.921	7.9	19.5
6 20	17 0.79	-17 37.0	2.001	2.997	4.7	14.5	6 20	17 1.43	- 0 27.1	1.959	2.905	9.0	19.5
6 30	16 52.51	-17 43.4	2.034	2.987	8.3	14.7	6 30	16 53.60	- 1 37.1	1.982	2.888	11.0	19.6
7 10	16 45.86	-17 54.1	2.093	2.977	11.5	14.9	7 10	16 47.26	- 3 1.8	2.027	2.871	13.5	19.7
23109	Masayanagisawa	6 9.3 211°04	1°1/ 9.1 18				518759	2009 TX ₄₉	6 9.3 137°39	1°4/ 9.6 17			
5 1	17 35.50	-18 57.7	2.873	3.669									

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
254440	2005 AQ ₅₃	6 9.3 18°01'	2.1/ 8.9	17			522785	2016 NV ₇₇	6 9.3 255°69'	6.1/ 10.6	18		
5 1	17 34.98	-20 32.1	1.120	1.977	20.5	20.3	5 1	17 43.48	-39 39.2	2.211	2.980	14.6	21.9
5 11	17 33.01	-20 5.4	1.059	1.982	16.2	20.1	5 11	17 38.73	-40 14.4	2.107	2.964	12.3	21.7
5 21	17 27.55	-19 37.3	1.015	1.988	11.2	19.8	5 21	17 31.10	-40 39.3	2.023	2.947	9.7	21.5
5 31	17 19.40	-19 9.4	0.991	1.995	5.7	19.5	5 31	17 21.15	-40 49.2	1.963	2.929	7.3	21.3
6 10	17 9.96	-18 44.1	0.990	2.004	2.2	19.3	6 10	17 9.87	-40 40.6	1.928	2.912	6.1	21.2
6 20	17 0.81	-18 23.7	1.011	2.013	6.8	19.7	6 20	16 58.50	-40 12.7	1.920	2.894	7.1	21.2
6 30	16 53.47	-18 11.1	1.054	2.023	12.1	20.0	6 30	16 48.33	-39 28.0	1.938	2.875	9.6	21.4
7 10	16 49.00	-18 8.0	1.116	2.034	16.7	20.3	7 10	16 40.40	-38 31.9	1.980	2.856	12.4	21.5
154461	2003 DU ₅	6 9.3 141°88'	4.5/ 9.8	18			45021	1999 WE ₆	6 9.3 140°84'	1.4/ 9.1	18		
5 1	17 45.21	-32 52.6	2.018	2.806	15.2	20.0	5 1	17 41.41	-19 39.1	1.802	2.614	15.8	19.8
5 11	17 39.90	-33 46.7	1.939	2.815	12.3	19.8	5 11	17 36.74	-19 34.5	1.725	2.622	12.5	19.6
5 21	17 31.75	-34 34.9	1.880	2.824	9.1	19.6	5 21	17 29.45	-19 30.6	1.668	2.630	8.6	19.4
5 31	17 21.38	-35 12.5	1.847	2.832	6.0	19.5	5 31	17 20.20	-19 27.2	1.636	2.637	4.4	19.2
6 10	17 9.83	-35 36.1	1.840	2.839	4.5	19.4	6 10	17 9.97	-19 24.7	1.630	2.644	1.4	19.0
6 20	16 58.35	-35 44.4	1.860	2.846	6.1	19.5	6 20	16 59.89	-19 23.5	1.651	2.650	5.1	19.2
6 30	16 48.16	-35 39.1	1.907	2.853	9.2	19.7	6 30	16 51.06	-19 24.9	1.699	2.656	9.2	19.5
7 10	16 40.27	-35 24.3	1.978	2.859	12.2	19.9	7 10	16 44.34	-19 30.2	1.769	2.661	12.9	19.7
413490	2005 NR ₆₇	6 9.3 292°52'	0.1/ 9.3	14	C		36781	2000 SM ₂	6 9.3 334°81'	6.4/ 9.9	18		
5 1	17 32.71	-23 0.9	3.045	3.845	10.3	21.6	5 1	17 37.62	-32 50.7	1.196	2.036	20.6	18.5
5 11	17 29.02	-22 54.6	2.934	3.825	8.1	21.4	5 11	17 35.92	-33 49.8	1.118	2.025	17.0	18.2
5 21	17 23.75	-22 46.4	2.846	3.806	5.6	21.2	5 21	17 30.21	-34 41.8	1.056	2.015	12.8	17.9
5 31	17 17.27	-22 36.5	2.785	3.786	2.8	21.0	5 31	17 21.07	-35 20.0	1.015	2.006	8.6	17.6
6 10	17 10.15	-22 24.9	2.752	3.767	0.3	20.7	6 10	17 9.89	-35 38.2	0.995	1.998	6.4	17.5
6 20	17 2.97	-22 12.3	2.747	3.747	3.2	21.0	6 20	16 58.55	-35 34.1	0.997	1.990	8.7	17.6
6 30	16 56.38	-21 59.7	2.771	3.727	6.1	21.1	6 30	16 49.08	-35 10.5	1.020	1.984	13.1	17.8
7 10	16 50.94	-21 48.5	2.821	3.708	8.8	21.3	7 10	16 43.02	-34 34.5	1.063	1.978	17.5	18.0
346011	2007 TU ₂₄₈	6 9.3 300°89'	1.2/ 9.4	18			19296	1996 RO ₄	6 9.3 149°42'	0.5/ 9.2	18		
5 1	17 38.44	-23 32.0	1.791	2.609	15.6	20.5	5 1	17 43.29	-21 47.9	1.945	2.749	15.1	20.1
5 11	17 35.05	-24 7.0	1.682	2.583	12.6	20.2	5 11	17 38.02	-21 44.7	1.866	2.759	11.9	19.9
5 21	17 28.81	-24 43.6	1.594	2.558	8.8	20.0	5 21	17 30.22	-21 40.3	1.808	2.769	8.2	19.7
5 31	17 20.14	-25 19.6	1.530	2.532	4.6	19.6	5 31	17 20.55	-21 34.2	1.776	2.777	4.1	19.4
6 10	17 9.92	-25 52.7	1.492	2.506	1.2	19.3	6 10	17 9.96	-21 26.3	1.771	2.786	0.6	19.2
6 20	16 59.32	-26 20.9	1.480	2.481	5.3	19.6	6 20	16 59.53	-21 17.5	1.793	2.793	4.7	19.5
6 30	16 49.66	-26 44.0	1.494	2.456	9.9	19.8	6 30	16 50.34	-21 9.3	1.843	2.799	8.7	19.8
7 10	16 42.12	-27 3.4	1.530	2.431	14.1	20.0	7 10	16 43.19	-21 3.7	1.917	2.805	12.2	20.0
262483	2006 UG ₁₉₆	6 9.3 202°54'	0.4/ 9.4	17			307062	2001 YH ₁₃₁	6 9.3 270°40'	3.9/ 9.9	18		
5 1	17 41.99	-24 7.4	2.132	2.932	14.1	22.1	5 1	17 41.27	-32 11.2	1.845	2.648	15.8	20.3
5 11	17 37.00	-24 9.8	2.037	2.928	11.2	21.9	5 11	17 37.27	-32 35.5	1.744	2.631	13.0	20.1
5 21	17 29.57	-24 9.7	1.964	2.922	7.8	21.6	5 21	17 30.28	-32 52.8	1.663	2.614	9.5	19.8
5 31	17 20.26	-24 6.1	1.915	2.916	3.9	21.4	5 31	17 20.82	-32 59.3	1.605	2.596	6.0	19.6
6 10	17 9.93	-23 58.4	1.895	2.910	0.4	21.1	6 10	17 9.92	-32 52.4	1.572	2.578	3.9	19.4
6 20	16 59.60	-23 47.3	1.902	2.902	4.4	21.4	6 20	16 58.87	-32 31.5	1.566	2.560	6.0	19.5
6 30	16 50.31	-23 34.3	1.938	2.894	8.3	21.6	6 30	16 49.03	-31 59.2	1.585	2.542	9.8	19.7
7 10	16 42.91	-23 21.8	1.998	2.886	11.8	21.8	7 10	16 41.54	-31 20.3	1.628	2.524	13.6	19.9
233258	2005 YA ₁₅₇	6 9.3 88°00'	4.1/ 9.1	17			394239	2006 SA ₄₀₅	6 9.3 330°64'	4.5/ 9.5	16		
5 1	17 39.97	-11 15.1	1.836	2.642	15.8	20.4	5 1	17 39.02	-31 8.4	1.872	2.680	15.5	21.0
5 11	17 35.35	-11 15.3	1.767	2.657	12.7	20.2	5 11	17 35.44	-32 12.1	1.782	2.671	12.6	20.7
5 21	17 28.35	-11 23.2	1.720	2.672	9.1	20.0	5 21	17 28.98	-33 12.6	1.712	2.663	9.3	20.5
5 31	17 19.59	-11 40.0	1.696	2.687	5.7	19.8	5 31	17 20.17	-34 5.3	1.666	2.655	6.1	20.3
6 10	17 9.99	-12 5.9	1.698	2.702	4.1	19.8	6 10	17 9.97	-34 46.1	1.646	2.648	4.5	20.2
6 20	17 0.58	-12 40.3	1.728	2.717	6.2	19.9	6 20	16 59.59	-35 12.5	1.651	2.641	6.4	20.3
6 30	16 52.35	-13 22.0	1.784	2.731	9.6	20.2	6 30	16 50.35	-35 25.0	1.683	2.634	9.8	20.5
7 10	16 46.06	-14 9.6	1.863	2.745	12.8	20.4	7 10	16 43.34	-35 26.5	1.737	2.628	13.1	20.7
96026	2004 PO ₂₇	6 9.3 334°41'	4.6/ 9.8	18			48101	2001 FB ₆₁	6 9.3 25°87'	2.3/ 9.0	17		
5 1	17 35.52	-31 58.1	1.752	2.569	16.0	19.5	5 1	17 36.30	-18 43.3	1.198	2.048	19.9	19.1
5 11	17 32.88	-32 45.2	1.658	2.553	13.1	19.3	5 11	17 33.81	-18 30.4	1.137	2.056	15.8	18.9
5 21	17 27.33	-33 27.1	1.584	2.537	9.7	19.1	5 21	17 27.99	-18 19.4	1.094	2.065	10.9	18.7
5 31	17 19.37	-33 59.8	1.532	2.523	6.3	18.8	5 31	17 19.62	-18 11.5	1.072	2.075	5.7	18.4
6 10	17 9.99	-34 19.6	1.505	2.509	4.6	18.7	6 10	17 10.03	-18 7.6	1.072	2.086	2.4	18.2
6 20	17 0.44	-34 25.1	1.504	2.496	6.5	18.8	6 20	17 0.71	-18 8.8	1.096	2.097	6.6	18.5
6 30	16 52.08	-34 17.4	1.526	2.484	10.1	18.9	6 30	16 53.12	-18 16.2	1.142	2.109	11.6	18.8
7 10	16 46.02	-34 0.4	1.571	2.472	13.7	19.1	7 10	16 48.26	-18 30.5	1.209	2.122	16.0	19.1
331547	2000 VL ₃₉	6 9.3 306°46'	0.5/ 9.2	18			69158	2003 JR ₁₃	6 9.3 12°75'	7.1/ 7.4	18		
5 1	17 36.57	-23 20.9	1.563	2.394	16.9	20.8	5 1	17 32.78	- 7 4.2	1.884	2.696	15.2	19.6
5 11	17 33.95	-23 4.3	1.452	2.361	13.7	20.5	5 11	17 29.70	- 5 58.0	1.813	2.699	12.6	19.4
5 21	17 28.26	-22 43.1	1.361	2.328	9.6	20.1	5 21	17 24.49	- 4 59.0	1.762	2.702	9.8	19.2
5 31	17 19.94	-22 17.3	1.292	2.295	4.9	19.8	5 31	17 17.71	- 4 11.7	1.734	2.706	7.7	19.1
6 10	17 9.95	-21 47.1	1.247	2.262	0.7	19.4	6 10	17 10.19	- 3 39.9	1.732	2.711	7.1	19.1
6 20	16 59.56	-21 14.5	1.227	2.229	5.9	19.7	6 20	17 2.79	- 3 25.7	1.754	2.716	8.6	19.2
6 30	16 50.26	-20 42.8	1.232	2.197	11.2	19.9	6 30	16 56.38	- 3 29.7	1.800	2.721	11.2	19.3
7 10	16 43.31	-20 15.8	1.258	2.165	16.0	20.0	7 10	16 51.67	- 3 50.4	1.868	2.727	13.8	19.5
108070	2001 FC ₁₆₇	6 9.3 96°53'	4.6/ 8.8	17			116957	2004 HL ₃	6 9.3 328°73'	0.3/ 9.3	18		
5 1	17 39.44	-12 36.5											

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
23986	1999 <i>NZ</i> ₅₃		6 9.3 219°84	0°1/ 9.4 18			134695	1999 <i>XR</i> ₈₂		6 9.3 216°41	0°1/ 9.3 18		
5 1	17 37.37	-25 37.5	2.878	3.669	11.0	19.4	5 1	17 41.96	-23 46.2	2.074	2.876	14.4	20.8
5 11	17 32.66	-25 11.4	2.775	3.661	8.7	19.2	5 11	17 37.07	-23 32.8	1.976	2.867	11.4	20.6
5 21	17 26.22	-24 40.8	2.695	3.652	6.0	19.0	5 21	17 29.70	-23 16.0	1.899	2.858	7.9	20.3
5 31	17 18.50	-24 5.7	2.642	3.643	3.0	18.8	5 31	17 20.39	-22 55.2	1.847	2.848	3.9	20.1
6 10	17 10.14	-23 26.8	2.618	3.633	0.2	18.6	6 10	17 10.05	-22 30.8	1.822	2.838	0.3	19.7
6 20	17 1.83	-22 45.7	2.624	3.623	3.4	18.8	6 20	16 59.69	-22 4.0	1.826	2.826	4.6	20.1
6 30	16 54.28	-22 4.6	2.658	3.613	6.5	19.0	6 30	16 50.38	-21 37.3	1.857	2.814	8.6	20.3
7 10	16 48.08	-21 25.7	2.719	3.602	9.2	19.2	7 10	16 43.00	-21 13.3	1.913	2.801	12.3	20.5
418008	2007 <i>TW</i> ₄₅₀		6 9.3 339°61	3°1/ 8.4 17			326612	2002 <i>RM</i> ₇₃		6 9.3 282°59	2°2/ 9.7 17		
5 1	17 35.05	-22 10.4	1.166	2.020	20.1	19.8	5 1	17 40.12	-28 11.9	1.607	2.426	17.1	21.4
5 11	17 33.16	-20 58.0	1.089	2.011	16.0	19.5	5 11	17 36.71	-28 21.4	1.507	2.407	13.8	21.1
5 21	17 27.78	-19 36.3	1.030	2.003	11.2	19.2	5 21	17 30.10	-28 25.1	1.427	2.388	9.9	20.8
5 31	17 19.64	-18 8.9	0.993	1.996	5.9	18.9	5 31	17 20.84	-28 20.5	1.369	2.369	5.4	20.5
6 10	17 10.05	-16 41.6	0.977	1.990	3.2	18.7	6 10	17 10.00	-28 5.7	1.337	2.350	2.2	20.2
6 20	17 0.60	-15 21.4	0.985	1.984	7.7	18.9	6 20	16 58.96	-27 41.2	1.329	2.330	5.8	20.4
6 30	16 52.86	-14 15.4	1.015	1.980	13.0	19.2	6 30	16 49.22	-27 9.8	1.347	2.311	10.5	20.6
7 10	16 47.96	-13 27.9	1.065	1.976	17.9	19.4	7 10	16 41.98	-26 36.3	1.387	2.291	15.0	20.8
335041	2004 <i>RG</i> ₅₇		6 9.3 276°41	6°8/ 10.8 18			356360	2010 <i>LF</i> ₁₂₅		6 9.3 334°73	2°7/ 8.9 18		
5 1	17 42.79	-39 25.1	1.827	2.613	16.6	20.8	5 1	17 33.25	-16 43.9	1.779	2.607	15.3	20.5
5 11	17 38.72	-40 3.3	1.736	2.603	14.0	20.6	5 11	17 30.54	-16 28.3	1.688	2.594	12.3	20.2
5 21	17 31.37	-40 29.7	1.663	2.593	11.0	20.4	5 21	17 25.39	-16 15.1	1.618	2.582	8.6	20.0
5 31	17 21.38	-40 38.6	1.613	2.584	8.2	20.2	5 31	17 18.33	-16 5.5	1.571	2.570	4.8	19.7
6 10	17 9.93	-40 26.3	1.587	2.574	6.8	20.1	6 10	17 10.21	-16 0.8	1.549	2.559	2.8	19.6
6 20	16 58.48	-39 52.0	1.587	2.564	7.9	20.1	6 20	17 2.03	-16 2.1	1.553	2.549	5.7	19.7
6 30	16 48.53	-38 59.3	1.611	2.555	10.7	20.2	6 30	16 54.87	-16 10.3	1.581	2.540	9.7	20.0
7 10	16 41.23	-37 55.0	1.658	2.545	13.9	20.4	7 10	16 49.60	-16 25.7	1.632	2.531	13.4	20.2
358467	2007 <i>MY</i> ₁		6 9.3 317°00	7°2/ 7.7 17			424099	2007 <i>EU</i> ₁₆		6 9.3 27°60	0°5/ 9.4 17		
5 1	17 33.33	-12 46.6	1.174	2.027	20.1	20.2	5 1	17 38.22	-23 27.8	1.533	2.362	17.3	21.0
5 11	17 31.86	-11 39.6	1.089	2.006	16.5	19.9	5 11	17 34.85	-23 41.2	1.459	2.367	13.7	20.8
5 21	17 27.03	-10 34.4	1.021	1.986	12.4	19.6	5 21	17 28.52	-23 53.3	1.405	2.372	9.5	20.5
5 31	17 19.39	-9 37.1	0.974	1.966	8.5	19.3	5 31	17 19.89	-24 2.6	1.374	2.377	4.7	20.3
6 10	17 10.07	-8 54.0	0.947	1.948	7.3	19.2	6 10	17 10.10	-24 8.1	1.368	2.383	0.6	20.0
6 20	17 0.53	-8 30.3	0.943	1.930	10.3	19.3	6 20	17 0.44	-24 10.0	1.387	2.389	5.3	20.3
6 30	16 52.40	-8 29.1	0.959	1.913	14.9	19.4	6 30	16 52.20	-24 9.7	1.430	2.396	9.9	20.6
7 10	16 46.97	-8 49.9	0.992	1.896	19.5	19.7	7 10	16 46.37	-24 9.6	1.496	2.402	13.9	20.9
391819	2008 <i>SS</i> ₃₀		6 9.3 161°88	1°3/ 8.9 17			243649	1999 <i>TS</i> ₁₉₀		6 9.3 292°28	2°3/ 8.4 18		
5 1	17 39.07	-20 32.9	2.385	3.184	12.8	22.0	5 1	17 35.45	-19 33.8	2.260	3.070	13.1	19.7
5 11	17 34.22	-20 5.8	2.299	3.190	10.1	21.8	5 11	17 31.65	-18 42.2	2.158	3.055	10.4	19.5
5 21	17 27.38	-19 37.0	2.236	3.195	6.9	21.6	5 21	17 25.81	-17 47.5	2.080	3.040	7.3	19.2
5 31	17 19.10	-19 7.3	2.199	3.200	3.6	21.4	5 31	17 18.42	-16 51.4	2.027	3.026	4.0	19.0
6 10	17 10.13	-18 37.9	2.190	3.204	1.4	21.2	6 10	17 10.21	-15 56.5	2.001	3.011	2.4	18.9
6 20	17 1.29	-18 10.3	2.211	3.207	4.3	21.4	6 20	17 2.01	-15 5.5	2.004	2.997	5.0	19.0
6 30	16 53.38	-17 46.4	2.258	3.210	7.6	21.6	6 30	16 54.68	-14 21.4	2.033	2.982	8.5	19.2
7 10	16 47.06	-17 27.8	2.332	3.213	10.6	21.8	7 10	16 48.91	-13 46.3	2.087	2.968	11.7	19.4
9208	Takanotoshi		6 9.3 206°75	4°0/ 8.1 18			36204	1999 <i>TM</i> ₁₀₁		6 9.3 276°03	9°8/ 6.3 18		
5 1	17 37.00	-13 38.9	2.201	3.005	13.6	17.8	5 1	17 33.37	+ 6 3.0	2.426	3.177	13.9	17.8
5 11	17 32.78	-12 51.8	2.112	3.002	10.9	17.6	5 11	17 29.71	+ 7 13.8	2.352	3.174	12.3	17.7
5 21	17 26.51	-12 6.6	2.046	2.998	7.9	17.4	5 21	17 24.30	+ 8 11.5	2.298	3.171	10.9	17.6
5 31	17 18.72	-11 25.7	2.004	2.995	5.1	17.2	5 31	17 17.61	+ 8 51.3	2.267	3.168	10.0	17.5
6 10	17 10.15	-10 51.7	1.990	2.990	4.1	17.1	6 10	17 10.28	+ 9 9.8	2.259	3.165	9.8	17.5
6 20	17 1.65	-10 26.6	2.004	2.986	6.1	17.3	6 20	17 3.00	+ 9 5.5	2.275	3.162	10.6	17.6
6 30	16 54.04	-10 12.2	2.043	2.981	9.1	17.4	6 30	16 56.47	+ 8 38.8	2.313	3.159	12.0	17.6
7 10	16 48.03	-10 8.6	2.107	2.976	12.1	17.6	7 10	16 51.28	+ 7 52.3	2.372	3.156	13.6	17.8
241588	1997 <i>RK</i> ₁		6 9.3 331°39	8°9/ 7.4 17			77103	2001 <i>DJ</i> ₆₇		6 9.3 24°13	1°2/ 9.5 17		
5 1	17 30.21	-10 37.9	1.054	1.917	21.1	20.1	5 1	17 37.25	-25 55.0	1.202	2.049	20.0	19.2
5 11	17 29.61	-9 19.9	0.977	1.898	17.5	19.8	5 11	17 34.81	-25 57.7	1.139	2.056	15.9	18.9
5 21	17 25.59	-8 6.1	0.916	1.880	13.5	19.5	5 21	17 28.83	-25 55.1	1.094	2.064	11.0	18.7
5 31	17 18.70	-7 4.5	0.874	1.863	10.0	19.2	5 31	17 20.13	-25 45.6	1.069	2.073	5.6	18.4
6 10	17 10.14	-6 22.9	0.852	1.848	9.1	19.1	6 10	17 10.10	-25 28.9	1.068	2.082	1.3	18.1
6 20	17 1.41	-6 7.1	0.850	1.834	11.8	19.2	6 20	17 0.37	-25 6.6	1.089	2.093	6.1	18.5
6 30	16 54.19	-6 19.4	0.868	1.821	16.1	19.4	6 30	16 52.49	-24 42.2	1.133	2.104	11.2	18.8
7 10	16 49.78	-6 57.8	0.902	1.810	20.6	19.6	7 10	16 47.53	-24 20.0	1.198	2.116	15.8	19.1
464769	2003 <i>UG</i> ₁₇₅		6 9.3 310°36	5°1/ 9.9 17			9097	Davidschlag		6 9.3 14°20	0°9/ 9.2 18		
5 1	17 38.13	-31 40.0	1.311	2.144	19.4	20.7	5 1	17 35.02	-20 52.9	1.964	2.784	14.4	17.8
5 11	17 36.09	-32 20.3	1.218	2.123	16.0	20.4	5 11	17 31.59	-20 48.7	1.884	2.786	11.4	17.6
5 21	17 30.27	-32 54.0	1.143	2.103	11.9	20.1	5 21	17 25.89	-20 44.1	1.825	2.789	7.8	17.4
5 31	17 21.15	-33 15.9	1.088	2.082	7.6	19.8	5 31	17 18.48	-20 39.2	1.790	2.792	3.9	17.2
6 10	17 9.95	-33 21.0	1.056	2.062	5.1	19.6	6 10	17 10.22	-20 34.4	1.782	2.796	0.9	16.9
6 20	16 58.40	-33 7.5	1.046	2.043	7.8	19.7	6 20	17 2.05	-20 30.4	1.800	2.800	4.5	17.2
6 30	16 48.43	-32 38.0	1.059	2.024	12.5	19.9	6 30	16 54.92	-20 28.3	1.844	2.805	8.4	17.4
7 10	16 41.59	-31 59.1	1.092	2.006	17.3	20.1	7 10	16 49.59	-20 29.3	1.912	2.810	11.8	17.7
294254	2007 <i>UP</i> ₇₁		6 9.3 223°96	3°0/ 8.8 17			512658	2016 <i>TO</i> ₇₀		6 9.3 228°01	1°7/ 8.9		

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
302861	2003 GA ₃₉	6 9.4 100°90	3°2/ 9.0 17				17676	1997 AG ₁	6 9.4 327°68	3°3/10.2 18			
5 1	17 42.68	-15 56.5	1.449	2.272	18.4	21.5	5 1	17 38.41	-32 51.4	2.201	2.996	13.9	18.3
5 11	17 38.20	-15 44.6	1.384	2.286	14.7	21.3	5 11	17 34.28	-33 1.4	2.112	2.994	11.2	18.1
5 21	17 30.70	-15 36.9	1.338	2.300	10.3	21.1	5 21	17 27.78	-33 3.6	2.044	2.993	8.2	17.9
5 31	17 20.92	-15 34.6	1.315	2.314	5.7	20.9	5 31	17 19.46	-32 55.7	2.001	2.991	5.1	17.7
6 10	17 10.07	-15 38.5	1.317	2.327	3.2	20.8	6 10	17 10.23	-32 36.5	1.984	2.990	3.3	17.6
6 20	16 59.49	-15 48.9	1.344	2.340	6.5	21.0	6 20	17 1.10	-32 6.9	1.995	2.989	5.0	17.7
6 30	16 50.49	-16 6.1	1.396	2.353	10.9	21.3	6 30	16 53.06	-31 29.4	2.032	2.987	8.1	17.9
7 10	16 43.99	-16 30.1	1.470	2.366	14.8	21.5	7 10	16 46.93	-30 48.0	2.093	2.986	11.2	18.1
355688	2008 FV ₁₇	6 9.4 100°35	2°2/ 9.9 17				381833	2009 WL ₂₇	6 9.4 294°14	0°4/ 9.4 16			
5 1	17 38.31	-29 39.4	2.368	3.164	13.0	21.6	5 1	17 38.38	-24 3.7	1.624	2.449	16.7	21.8
5 11	17 33.87	-29 53.9	2.287	3.172	10.4	21.5	5 11	17 35.26	-24 6.4	1.520	2.425	13.4	21.5
5 21	17 27.29	-30 3.1	2.228	3.181	7.3	21.3	5 21	17 29.12	-24 6.6	1.435	2.401	9.4	21.2
5 31	17 19.13	-30 5.4	2.194	3.189	4.2	21.1	5 31	17 20.42	-24 3.0	1.374	2.376	4.8	20.9
6 10	17 10.20	-29 59.9	2.187	3.197	2.2	21.0	6 10	17 10.15	-23 55.0	1.337	2.352	0.5	20.5
6 20	17 1.39	-29 46.9	2.208	3.205	4.3	21.1	6 20	16 59.60	-23 42.9	1.326	2.328	5.5	20.8
6 30	16 53.59	-29 28.3	2.257	3.213	7.4	21.3	6 30	16 50.16	-23 28.8	1.339	2.304	10.5	21.0
7 10	16 47.50	-29 6.7	2.330	3.221	10.3	21.5	7 10	16 43.06	-23 15.7	1.374	2.280	15.0	21.2
154824	2004 RL ₄	6 9.4 138°64	8°8/11.3 18				499799	2011 CY ₈₄	6 9.4 65°72	3°7/ 8.8 17			
5 1	17 49.39	-52 44.7	2.902	3.590	13.1	20.7	5 1	17 38.17	-15 9.8	1.643	2.465	16.6	22.0
5 11	17 43.36	-54 1.5	2.826	3.598	11.7	20.6	5 11	17 34.34	-14 43.0	1.573	2.474	13.3	21.8
5 21	17 34.30	-55 5.1	2.770	3.606	10.4	20.5	5 21	17 27.91	-14 19.7	1.523	2.484	9.4	21.6
5 31	17 22.80	-55 49.8	2.737	3.613	9.3	20.4	5 31	17 19.53	-14 1.8	1.497	2.494	5.5	21.4
6 10	17 9.94	-56 11.6	2.728	3.620	8.8	20.4	6 10	17 10.24	-13 51.2	1.496	2.503	3.7	21.3
6 20	16 57.04	-56 9.0	2.743	3.627	9.1	20.4	6 20	17 1.14	-13 49.0	1.521	2.513	6.4	21.5
6 30	16 45.49	-55 44.1	2.782	3.633	10.0	20.5	6 30	16 53.33	-13 56.0	1.570	2.523	10.2	21.7
7 10	16 36.35	-55 1.7	2.843	3.640	11.3	20.6	7 10	16 47.63	-14 12.0	1.642	2.533	13.8	22.0
219609	2001 TD ₉₅	6 9.4 172°31	1°5/ 8.9 17				514342	2016 PN ₉₁	6 9.4 187°71	1°1/ 9.2 18			
5 1	17 40.46	-19 56.5	2.363	3.159	13.0	21.9	5 1	17 37.32	-17 58.0	3.025	3.814	10.6	22.5
5 11	17 35.36	-19 33.4	2.274	3.164	10.3	21.7	5 11	17 32.54	-18 9.4	2.929	3.814	8.4	22.3
5 21	17 28.22	-19 9.2	2.209	3.167	7.1	21.5	5 21	17 26.14	-18 22.4	2.856	3.812	5.8	22.1
5 31	17 19.57	-18 44.5	2.170	3.170	3.7	21.3	5 31	17 18.55	-18 37.0	2.811	3.810	3.0	22.0
6 10	17 10.18	-18 20.3	2.159	3.171	1.5	21.2	6 10	17 10.31	-18 52.8	2.795	3.808	1.1	21.8
6 20	17 0.90	-17 58.0	2.176	3.173	4.4	21.4	6 20	17 2.07	-19 9.7	2.809	3.806	3.5	22.0
6 30	16 52.56	-17 39.4	2.222	3.173	7.8	21.6	6 30	16 54.46	-19 27.8	2.851	3.802	6.3	22.2
7 10	16 45.84	-17 25.8	2.293	3.173	10.8	21.8	7 10	16 48.05	-19 47.4	2.920	3.799	8.8	22.3
155336	2006 GA ₁	6 9.4 254°84	0°5/ 9.4 15				510673	2012 UL ₂₆	6 9.4 261°56	4°5/10.2 18			
5 1	17 51.20	-24 27.0	2.573	3.340	12.8	23.7	5 1	17 41.82	-34 52.0	2.172	2.957	14.3	22.7
5 11	17 44.26	-24 33.0	2.433	3.305	10.3	23.5	5 11	17 37.37	-35 22.9	2.066	2.939	11.8	22.5
5 21	17 34.74	-24 36.5	2.317	3.267	7.3	23.2	5 21	17 30.19	-35 46.2	1.980	2.921	8.9	22.3
5 31	17 23.05	-24 35.7	2.229	3.228	3.7	22.9	5 31	17 20.81	-35 58.3	1.919	2.902	6.1	22.1
6 10	17 9.94	-24 29.3	2.171	3.186	0.5	22.6	6 10	17 10.14	-35 56.2	1.884	2.883	4.5	22.0
6 20	16 56.39	-24 17.0	2.145	3.143	4.3	22.8	6 20	16 59.32	-35 39.2	1.877	2.863	6.0	22.0
6 30	16 43.51	-24 0.1	2.151	3.097	8.2	23.0	6 30	16 49.56	-35 9.2	1.896	2.844	9.1	22.2
7 10	16 32.29	-23 41.4	2.183	3.050	11.8	23.1	7 10	16 41.86	-34 30.6	1.938	2.824	12.3	22.3
145854	1999 CS ₉₈	6 9.4 117°65	6°5/ 8.7 17				40912	1999 TX ₁₅₂	6 9.4 124°88	4°8/ 7.7 18			
5 1	17 39.15	- 6 18.0	1.832	2.630	16.1	19.9	5 1	17 34.44	- 9 42.9	2.542	3.337	12.2	19.3
5 11	17 34.77	- 5 50.9	1.760	2.639	13.3	19.7	5 11	17 30.42	- 8 49.4	2.463	3.342	9.9	19.1
5 21	17 28.04	- 5 34.1	1.708	2.647	10.2	19.5	5 21	17 24.72	- 8 0.1	2.406	3.348	7.5	19.0
5 31	17 19.55	- 5 30.5	1.679	2.655	7.5	19.4	5 31	17 17.83	- 7 17.5	2.375	3.353	5.4	18.8
6 10	17 10.21	- 5 42.2	1.676	2.662	6.5	19.3	6 10	17 10.36	- 6 44.2	2.371	3.358	4.9	18.8
6 20	17 1.00	- 6 9.5	1.699	2.670	8.1	19.4	6 20	17 3.00	- 6 21.9	2.395	3.363	6.3	18.9
6 30	16 52.91	- 6 51.1	1.747	2.677	10.9	19.6	6 30	16 56.41	- 6 11.6	2.445	3.368	8.5	19.1
7 10	16 46.71	- 7 44.5	1.817	2.684	13.8	19.8	7 10	16 51.14	- 6 13.0	2.519	3.372	10.9	19.2
19732	1999 XF ₁₆₅	6 9.4 302°22	2°0/ 9.4 18				180776	2004 QY ₁₀	6 9.4 354°55	2°8/ 9.3 16			
5 1	17 39.12	-15 51.5	1.476	2.305	17.9	16.8	5 1	17 34.53	-14 12.3	1.744	2.569	15.7	19.6
5 11	17 36.10	-16 19.1	1.375	2.281	14.5	16.5	5 11	17 31.56	-14 26.5	1.661	2.564	12.6	19.4
5 21	17 29.89	-16 55.7	1.293	2.257	10.3	16.2	5 21	17 26.11	-14 47.5	1.598	2.560	8.9	19.2
5 31	17 20.90	-17 41.3	1.233	2.234	5.5	15.8	5 31	17 18.73	-15 16.0	1.559	2.557	5.1	18.9
6 10	17 10.09	-18 34.7	1.197	2.211	2.1	15.6	6 10	17 10.29	-15 51.7	1.545	2.555	2.8	18.8
6 20	16 58.80	-19 33.4	1.187	2.187	6.3	15.8	6 20	17 1.83	-16 33.6	1.556	2.554	5.6	18.9
6 30	16 48.58	-20 35.2	1.201	2.165	11.5	16.0	6 30	16 54.41	-17 20.4	1.594	2.553	9.5	19.2
7 10	16 40.78	-21 38.5	1.237	2.142	16.3	16.2	7 10	16 48.93	-18 10.9	1.654	2.554	13.2	19.4
323333	2003 UG ₁₈₅	6 9.4 204°33	0°8/ 9.5 17				418159	2008 AB ₁₀₆	6 9.4 108°82	1°6/ 9.6 17			
5 1	17 42.78	-25 10.2	1.934	2.738	15.2	22.4	5 1	17 43.46	-26 46.6	1.680	2.491	16.8	22.1
5 11	17 37.97	-25 15.8	1.841	2.733	12.1	22.1	5 11	17 38.69	-26 59.6	1.609	2.505	13.3	21.9
5 21	17 30.47	-25 18.3	1.769	2.729	8.4	21.9	5 21	17 30.99	-27 8.2	1.558	2.518	9.3	21.7
5 31	17 20.87	-25 16.1	1.722	2.723	4.3	21.6	5 31	17 21.09	-27 10.1	1.531	2.531	4.9	21.5
6 10	17 10.12	-25 8.5	1.702	2.717	0.8	21.4	6 10	17 10.14	-27 4.2	1.530	2.544	1.6	21.3
6 20	16 59.37	-24 55.9	1.710	2.710	4.8	21.6	6 20	16 59.44	-26 51.1	1.556	2.556	5.1	21.5
6 30	16 49.78	-24 40.1	1.744	2.702	8.9	21.9	6 30	16 50.24	-26 33.3	1.607	2.568	9.4	21.8
7 10	16 42.30	-24 24.3	1.802	2.694	12.7	22.1	7 10	16 43.47	-26 14.4	1.682	2.579	13.2	22.1
45954	2001 AP ₃₈	6 9.4 179°20	7°4/ 6.4 18				395596	2011 UU ₃₂₂	6 9.4 175°26	3°2/ 8.1 17			
5 1	17 41.20	- 9 1											

EPHEMERIDES

6 9.4

6 9.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
70075	1999 <i>JK</i> ₅₆		6 9.4 358°73	3°9/ 8.8	17		425924	2011 <i>GU</i> ₂₄		6 9.4 17°10	7°4/ 6.9	17	
5 1	17 32.20	-16 57.3	1.044	1.909	21.0	18.9	5 1	17 33.65	-12 45.6	1.316	2.159	18.8	19.7
5 11	17 31.18	-16 28.7	0.978	1.905	16.9	18.6	5 11	17 31.27	-11 0.4	1.255	2.166	15.2	19.5
5 21	17 26.61	-16 2.9	0.929	1.902	11.9	18.4	5 21	17 26.03	-9 17.2	1.214	2.173	11.4	19.3
5 31	17 19.19	-15 43.0	0.899	1.901	6.7	18.1	5 31	17 18.68	-7 43.4	1.195	2.181	8.3	19.2
6 10	17 10.27	-15 31.7	0.890	1.901	4.0	17.9	6 10	17 10.37	-6 26.2	1.199	2.191	7.6	19.1
6 20	17 1.45	-15 31.2	0.902	1.903	7.9	18.1	6 20	17 2.36	-5 31.1	1.226	2.201	9.9	19.3
6 30	16 54.37	-15 42.4	0.936	1.905	13.1	18.4	6 30	16 55.82	-5 0.6	1.275	2.213	13.4	19.5
7 10	16 50.21	-16 5.2	0.987	1.910	17.9	18.7	7 10	16 51.61	-4 53.6	1.344	2.226	16.8	19.8
394687	2008 <i>CX</i> ₁₄₉		6 9.4 355°49	8°9/ 7.4	15		100	Hekate		6 9.4 319°31	2°9/ 8.9	18	
5 1	17 31.78	-2 41.4	1.767	2.574	16.2	21.0	5 1	17 34.35	-15 34.2	1.963	2.782	14.4	12.2
5 11	17 29.16	-1 35.4	1.693	2.570	13.8	20.8	5 11	17 31.21	-15 22.8	1.867	2.767	11.6	11.9
5 21	17 24.31	-0 40.3	1.639	2.567	11.3	20.6	5 21	17 25.80	-15 14.7	1.792	2.752	8.2	11.7
5 31	17 17.77	-0 1.8	1.607	2.564	9.4	20.5	5 31	17 18.59	-15 11.0	1.740	2.738	4.7	11.5
6 10	17 10.37	+ 0 16.1	1.599	2.563	9.0	20.5	6 10	17 10.37	-15 12.8	1.715	2.725	2.9	11.3
6 20	17 3.04	+ 0 11.5	1.613	2.562	10.3	20.5	6 20	17 2.07	-15 20.9	1.716	2.711	5.5	11.5
6 30	16 56.71	-0 15.5	1.651	2.562	12.6	20.7	6 30	16 54.66	-15 35.7	1.743	2.698	9.2	11.6
7 10	16 52.13	-1 2.0	1.709	2.563	15.2	20.8	7 10	16 48.98	-15 57.2	1.793	2.686	12.7	11.8
478047	2011 <i>SB</i> ₂₆₁		6 9.4 277°78	1°1/ 9.6	16		278933	2008 <i>UF</i> ₁₃		6 9.4 321°33	1°3/ 9.6	17	
5 1	17 37.21	-26 10.2	2.209	3.014	13.5	21.7	5 1	17 37.71	-26 9.5	1.657	2.481	16.5	21.2
5 11	17 33.28	-26 18.1	2.113	3.007	10.7	21.5	5 11	17 34.48	-26 17.7	1.570	2.473	13.2	20.9
5 21	17 27.09	-26 22.7	2.039	2.999	7.5	21.3	5 21	17 28.36	-26 22.0	1.502	2.465	9.2	20.7
5 31	17 19.16	-26 22.8	1.990	2.991	3.9	21.0	5 31	17 19.95	-26 20.6	1.457	2.458	4.8	20.4
6 10	17 10.28	-26 17.6	1.968	2.983	1.1	20.8	6 10	17 10.28	-26 12.6	1.437	2.451	1.4	20.1
6 20	17 1.39	-26 7.6	1.974	2.975	4.2	21.0	6 20	17 0.59	-25 58.5	1.443	2.445	5.2	20.4
6 30	16 53.44	-25 54.2	2.007	2.967	7.9	21.2	6 30	16 52.18	-25 40.6	1.474	2.438	9.7	20.6
7 10	16 47.23	-25 39.9	2.064	2.959	11.2	21.4	7 10	16 46.06	-25 22.3	1.527	2.432	13.8	20.8
200272	1999 <i>XA</i> ₁₂₇		6 9.4 245°53	0°9/ 9.6	18		21322	1997 <i>AV</i> ₂		6 9.4 71°59	0°3/ 9.4	18	R
5 1	17 40.73	-27 28.5	2.392	3.184	12.9	20.4	5 1	17 43.05	-23 28.0	1.777	2.587	16.1	19.2
5 11	17 35.89	-27 10.3	2.281	3.167	10.4	20.2	5 11	17 37.87	-23 36.7	1.722	2.618	12.6	19.0
5 21	17 28.82	-26 46.0	2.192	3.148	7.3	19.9	5 21	17 30.12	-23 43.3	1.688	2.649	8.6	18.8
5 31	17 20.00	-26 14.7	2.129	3.129	3.8	19.7	5 31	17 20.55	-23 46.7	1.678	2.680	4.2	18.6
6 10	17 10.23	-25 36.7	2.095	3.109	0.9	19.4	6 10	17 10.26	-23 46.4	1.695	2.710	0.4	18.4
6 20	17 0.42	-24 53.4	2.089	3.089	4.1	19.6	6 20	17 0.37	-23 43.0	1.739	2.740	4.6	18.8
6 30	16 51.52	-24 7.6	2.112	3.068	7.8	19.8	6 30	16 51.93	-23 38.1	1.809	2.769	8.6	19.1
7 10	16 44.31	-23 22.7	2.159	3.047	11.1	20.0	7 10	16 45.69	-23 33.9	1.904	2.799	12.0	19.4
475637	2006 <i>UY</i> ₂₄₁		6 9.4 242°52	3°0/ 8.4	16		506785	2007 <i>AR</i> ₂₇		6 9.4 60°75	1°2/ 9.3	17	
5 1	17 35.91	-15 59.2	2.351	3.156	12.8	21.9	5 1	17 40.96	-18 5.3	1.547	2.370	17.5	20.4
5 11	17 31.90	-15 21.2	2.256	3.148	10.2	21.7	5 11	17 36.82	-18 30.5	1.481	2.384	13.8	20.2
5 21	17 25.94	-14 43.7	2.183	3.140	7.3	21.5	5 21	17 29.79	-19 0.0	1.434	2.398	9.5	20.0
5 31	17 18.52	-14 8.5	2.136	3.131	4.3	21.3	5 31	17 20.56	-19 32.7	1.411	2.413	4.8	19.8
6 10	17 10.34	-13 37.6	2.117	3.123	3.0	21.2	6 10	17 10.26	-20 7.1	1.413	2.427	1.2	19.6
6 20	17 2.19	-13 12.8	2.125	3.114	5.2	21.3	6 20	17 0.13	-20 41.7	1.441	2.442	5.4	19.9
6 30	16 54.85	-12 55.6	2.161	3.105	8.3	21.5	6 30	16 51.44	-21 16.0	1.494	2.456	9.8	20.2
7 10	16 48.99	-12 47.1	2.220	3.096	11.3	21.7	7 10	16 45.12	-21 50.3	1.570	2.471	13.7	20.4
308428	2005 <i>SP</i> ₁₃₉		6 9.4 259°36	0°1/ 9.4	18		242312	2003 <i>WU</i> ₁₀₄		6 9.4 288°25	2°4/ 8.4	18	
5 1	17 36.65	-23 11.0	2.428	3.232	12.5	21.9	5 1	17 38.28	-21 26.1	1.921	2.736	14.9	19.4
5 11	17 32.59	-23 13.7	2.328	3.220	9.9	21.7	5 11	17 34.40	-20 21.4	1.816	2.715	11.9	19.2
5 21	17 26.50	-23 14.8	2.249	3.209	6.8	21.5	5 21	17 28.04	-19 10.1	1.732	2.694	8.3	18.9
5 31	17 18.85	-23 13.8	2.196	3.198	3.4	21.3	5 31	17 19.71	-17 53.9	1.672	2.673	4.5	18.6
6 10	17 10.33	-23 10.5	2.171	3.186	0.2	21.0	6 10	17 10.31	-16 36.4	1.641	2.652	2.5	18.5
6 20	17 1.77	-23 5.3	2.174	3.174	3.9	21.3	6 20	17 0.86	-15 21.8	1.636	2.631	5.8	18.6
6 30	16 54.01	-22 59.3	2.204	3.163	7.4	21.5	6 30	16 52.45	-14 14.9	1.658	2.610	9.9	18.8
7 10	16 47.77	-22 54.1	2.260	3.151	10.5	21.6	7 10	16 45.96	-13 19.5	1.704	2.588	13.7	19.0
500967	2013 <i>QS</i> ₆₄		6 9.4 263°23	5°1/ 8.3	18		111582	2002 <i>AG</i> ₃₈		6 9.4 70°24	3°2/ 9.0	18	
5 1	17 38.82	-12 14.3	1.778	2.590	16.0	21.8	5 1	17 36.48	-12 45.9	2.224	3.027	13.5	19.6
5 11	17 35.00	-11 36.2	1.679	2.572	13.0	21.5	5 11	17 32.41	-12 44.6	2.140	3.030	10.8	19.4
5 21	17 28.57	-11 1.9	1.600	2.554	9.6	21.3	5 21	17 26.33	-12 48.7	2.078	3.032	7.7	19.2
5 31	17 20.03	-10 34.4	1.545	2.535	6.4	21.1	5 31	17 18.74	-12 59.1	2.042	3.035	4.7	19.1
6 10	17 10.25	-10 16.6	1.515	2.516	5.1	20.9	6 10	17 10.38	-13 16.2	2.032	3.037	3.2	19.0
6 20	17 0.31	-10 10.7	1.511	2.496	7.5	21.0	6 20	17 2.06	-13 40.1	2.050	3.040	5.2	19.1
6 30	16 51.36	-10 17.8	1.533	2.476	11.2	21.2	6 30	16 54.60	-14 10.3	2.095	3.043	8.3	19.3
7 10	16 44.38	-10 37.8	1.576	2.455	14.9	21.4	7 10	16 48.71	-14 46.0	2.164	3.045	11.3	19.5
670	Ottegebe		6 9.4 268°28	4°0/ 8.4	18		513134	2000 <i>TF</i> ₁		6 9.4 222°31	12°6/ 8.9	18	
5 1	17 36.50	-13 16.4	2.171	2.976	13.7	14.2	5 1	18 4.17	-58 14.5	2.485	3.137	15.8	21.9
5 11	17 32.64	-12 42.7	2.068	2.958	11.1	14.0	5 11	17 57.64	-60 20.9	2.399	3.127	14.7	21.8
5 21	17 26.64	-12 11.6	1.987	2.940	8.1	13.8	5 21	17 46.05	-62 14.0	2.331	3.116	13.6	21.7
5 31	17 18.96	-11 45.3	1.930	2.921	5.2	13.6	5 31	17 29.59	-63 43.3	2.284	3.105	12.8	21.6
6 10	17 10.34	-11 25.9	1.901	2.903	4.0	13.5	6 10	17 9.62	-64 39.7	2.260	3.093	12.6	21.6
6 20	17 1.62	-11 15.2	1.899	2.884	6.1	13.6	6 20	16 48.55	-64 57.9	2.257	3.080	13.0	21.6
6 30	16 53.70	-11 14.3	1.922	2.864	9.3	13.7	6 30	16 29.34	-64 39.5	2.275	3.067	13.9	21.6
7 10	16 47.38	-11 23.5	1.970	2.845	12.6	13.9	7 10	16 14.35	-63 52.2	2.313	3.053	15.1	21.7
494384	2016 <i>UR</i> ₄₇		6 9.4 267°23	5°5/ 10.4	16		169609	2002 <i>GD</i> ₁₀₃		6 9.4 122°64	3°6/		

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
184215	2004 QJ ₂₇		6 9.4 4°63	9°3/10.5	17		74786	1999 SY		6 9.4 154°50	1°4/ 9.1	17	
5 1	17 40.37	-43 8.1	1.772	2.553	17.2	19.1	5 1	17 42.30	-19 55.9	1.965	2.770	14.9	20.3
5 11	17 37.25	-44 33.6	1.698	2.553	14.8	18.9	5 11	17 37.27	-19 43.3	1.885	2.778	11.8	20.1
5 21	17 30.68	-45 46.9	1.643	2.554	12.4	18.8	5 21	17 29.81	-19 30.5	1.825	2.785	8.2	19.9
5 31	17 21.26	-46 40.5	1.609	2.556	10.3	18.6	5 31	17 20.52	-19 17.7	1.791	2.792	4.2	19.7
6 10	17 10.22	-47 8.8	1.598	2.558	9.3	18.6	6 10	17 10.33	-19 5.3	1.784	2.798	1.4	19.5
6 20	16 59.16	-47 9.7	1.610	2.562	10.1	18.6	6 20	17 0.28	-18 54.5	1.805	2.803	4.9	19.7
6 30	16 49.70	-46 45.6	1.646	2.566	12.1	18.8	6 30	16 51.40	-18 46.8	1.853	2.808	8.8	20.0
7 10	16 43.10	-46 3.1	1.702	2.571	14.5	18.9	7 10	16 44.48	-18 43.6	1.925	2.812	12.3	20.2
358465	2007 JQ ₄₅		6 9.4 331°68	3°5/ 8.6	17		283700	2002 RG ₂₃₉		6 9.4 260°10	2°7/10.0	18	
5 1	17 31.50	-20 25.1	1.026	1.895	21.1	20.9	5 1	17 39.41	-30 43.1	2.070	2.870	14.4	21.1
5 11	17 30.98	-19 32.5	0.947	1.878	17.0	20.6	5 11	17 35.29	-30 53.6	1.976	2.864	11.6	20.9
5 21	17 26.77	-18 33.8	0.885	1.861	12.0	20.2	5 21	17 28.64	-30 57.4	1.904	2.857	8.4	20.7
5 31	17 19.46	-17 32.2	0.842	1.846	6.5	19.9	5 31	17 20.02	-30 52.3	1.856	2.850	4.9	20.4
6 10	17 10.34	-16 32.7	0.819	1.832	3.6	19.6	6 10	17 10.36	-30 37.2	1.834	2.844	2.7	20.3
6 20	17 1.12	-15 41.1	0.818	1.819	8.2	19.8	6 20	17 0.71	-30 12.4	1.840	2.837	4.9	20.4
6 30	16 53.57	-15 3.2	0.836	1.807	14.1	20.1	6 30	16 52.18	-29 40.5	1.872	2.830	8.5	20.6
7 10	16 49.10	-14 42.3	0.872	1.797	19.4	20.4	7 10	16 45.64	-29 5.2	1.928	2.823	11.9	20.8
32490	2000 UU ₂₇		6 9.4 176°19	4°3/10.6	18		67600	2000 ST ₁₄₆		6 9.4 347°97	3°6/ 8.6	18	
5 1	17 42.78	-35 25.9	1.905	2.696	15.8	18.0	5 1	17 32.97	-19 24.5	1.093	1.955	20.6	18.1
5 11	17 38.19	-35 31.3	1.819	2.697	13.0	17.8	5 11	17 31.76	-18 33.1	1.021	1.947	16.5	17.8
5 21	17 30.70	-35 25.5	1.753	2.697	9.6	17.6	5 21	17 27.03	-17 38.5	0.966	1.940	11.6	17.5
5 31	17 21.02	-35 5.3	1.711	2.698	6.3	17.4	5 31	17 19.47	-16 44.1	0.931	1.934	6.4	17.2
6 10	17 10.27	-34 29.2	1.695	2.698	4.3	17.3	6 10	17 10.40	-15 54.5	0.918	1.930	3.7	17.0
6 20	16 59.71	-33 38.6	1.706	2.698	5.9	17.4	6 20	17 1.41	-15 14.3	0.927	1.926	7.9	17.2
6 30	16 50.58	-32 37.8	1.743	2.698	9.2	17.6	6 30	16 54.11	-14 47.7	0.956	1.924	13.2	17.5
7 10	16 43.81	-31 32.6	1.803	2.697	12.6	17.8	7 10	16 49.70	-14 36.8	1.005	1.923	18.0	17.8
255370	2005 WS ₁₁₁		6 9.4 273°79	0°0/ 9.3	18		292734	2006 UM ₁₅₇		6 9.4 116°31	1°0/ 9.6	17	
5 1	17 37.91	-21 10.5	2.432	3.233	12.5	20.3	5 1	17 38.73	-25 50.7	2.527	3.322	12.3	22.1
5 11	17 33.68	-21 37.2	2.326	3.217	10.0	20.1	5 11	17 33.99	-26 2.2	2.448	3.335	9.7	21.9
5 21	17 27.35	-22 5.5	2.242	3.201	6.9	19.9	5 21	17 27.31	-26 10.9	2.392	3.348	6.7	21.7
5 31	17 19.36	-22 34.2	2.184	3.185	3.5	19.6	5 31	17 19.21	-26 15.6	2.362	3.361	3.5	21.5
6 10	17 10.38	-23 2.2	2.154	3.169	0.2	19.3	6 10	17 10.43	-26 15.8	2.360	3.374	1.0	21.4
6 20	17 1.25	-23 28.7	2.153	3.153	3.9	19.6	6 20	17 1.78	-26 11.8	2.386	3.386	3.7	21.6
6 30	16 52.84	-23 53.4	2.179	3.137	7.5	19.8	6 30	16 54.04	-26 4.7	2.441	3.398	6.8	21.8
7 10	16 45.93	-24 17.0	2.231	3.120	10.7	20.0	7 10	16 47.86	-25 56.4	2.521	3.409	9.7	22.0
57	Mnemosyne		6 9.4 213°71	5°3/ 7.5	18		306688	2000 UO ₆₂		6 9.4 232°82	1°0/ 9.7	18	
5 1	17 34.38	- 7 26.9	2.687	3.474	11.8	12.6	5 1	17 37.87	-26 58.9	2.999	3.785	10.7	22.0
5 11	17 30.37	- 6 33.2	2.597	3.470	9.7	12.4	5 11	17 33.18	-26 59.3	2.889	3.771	8.5	21.8
5 21	17 24.74	- 5 44.2	2.531	3.465	7.6	12.3	5 21	17 26.74	-26 56.1	2.802	3.756	6.0	21.6
5 31	17 17.92	- 5 2.8	2.490	3.460	5.8	12.2	5 31	17 18.96	-26 48.4	2.742	3.741	3.1	21.4
6 10	17 10.49	- 4 31.6	2.477	3.455	5.3	12.1	6 10	17 10.45	-26 36.0	2.711	3.725	1.0	21.2
6 20	17 3.10	- 4 12.3	2.491	3.449	6.6	12.2	6 20	17 1.89	-26 19.2	2.709	3.708	3.4	21.3
6 30	16 56.39	- 4 5.7	2.531	3.444	8.7	12.3	6 30	16 54.01	-25 59.5	2.736	3.691	6.3	21.5
7 10	16 50.91	- 4 11.5	2.595	3.438	10.9	12.5	7 10	16 47.43	-25 38.7	2.790	3.674	9.0	21.7
370418	2002 TQ ₃₈₁		6 9.4 241°35	1°2/ 9.1	17		99177	2001 FN ₁₇₂		6 9.4 47°34	2°3/ 9.3	18	
5 1	17 40.76	-21 0.3	1.927	2.736	15.0	22.6	5 1	17 38.94	-15 7.7	1.788	2.603	15.8	19.4
5 11	17 36.42	-20 44.9	1.826	2.722	12.0	22.4	5 11	17 34.90	-15 26.4	1.712	2.610	12.6	19.2
5 21	17 29.48	-20 28.0	1.747	2.708	8.4	22.2	5 21	17 28.35	-15 51.1	1.656	2.617	8.8	19.0
5 31	17 20.48	-20 9.7	1.692	2.693	4.3	21.9	5 31	17 19.86	-16 21.8	1.625	2.624	4.8	18.8
6 10	17 10.32	-19 50.6	1.663	2.678	1.2	21.6	6 10	17 10.39	-16 57.6	1.619	2.631	2.3	18.6
6 20	17 0.05	-19 32.0	1.663	2.662	5.1	21.9	6 20	17 0.98	-17 37.4	1.641	2.639	5.3	18.8
6 30	16 50.82	-19 16.0	1.688	2.645	9.3	22.1	6 30	16 52.72	-18 20.0	1.689	2.647	9.2	19.1
7 10	16 43.56	-19 4.6	1.738	2.628	13.2	22.3	7 10	16 46.45	-19 4.8	1.760	2.655	12.8	19.3
497632	2006 QM ₁₆₂		6 9.4 163°09	3°7/10.1	17		106708	2000 WJ ₁₇₀		6 9.4 250°32	1°1/ 9.7	18	
5 1	17 45.03	-32 15.7	1.945	2.737	15.5	22.1	5 1	17 37.44	-27 38.0	2.430	3.228	12.6	19.8
5 11	17 39.87	-32 43.0	1.862	2.742	12.6	21.9	5 11	17 33.22	-27 26.3	2.331	3.220	10.0	19.6
5 21	17 31.85	-33 3.1	1.799	2.747	9.2	21.7	5 21	17 26.94	-27 9.2	2.255	3.212	7.0	19.4
5 31	17 21.62	-33 12.3	1.761	2.751	5.7	21.5	5 31	17 19.09	-26 46.1	2.205	3.204	3.7	19.2
6 10	17 10.25	-33 8.5	1.749	2.754	3.7	21.4	6 10	17 10.44	-26 17.0	2.182	3.196	1.1	19.0
6 20	16 58.99	-32 51.4	1.764	2.757	5.7	21.5	6 20	17 1.83	-25 43.3	2.187	3.187	3.9	19.2
6 30	16 49.09	-32 23.9	1.806	2.759	9.1	21.7	6 30	16 54.11	-25 7.2	2.220	3.179	7.3	19.4
7 10	16 41.50	-31 50.5	1.872	2.761	12.5	21.9	7 10	16 48.00	-24 31.6	2.278	3.170	10.4	19.6
508702	2017 UR ₂₀		6 9.4 220°30	0°7/ 9.5	17		62251	2000 SG ₈₁		6 9.4 304°32	2°2/ 9.0	18	
5 1	17 42.02	-24 32.2	2.058	2.860	14.5	22.7	5 1	17 35.35	-17 25.2	2.060	2.875	14.0	19.2
5 11	17 37.29	-24 42.6	1.960	2.851	11.5	22.4	5 11	17 31.91	-17 14.6	1.964	2.862	11.2	18.9
5 21	17 30.01	-24 50.9	1.883	2.842	8.0	22.2	5 21	17 26.24	-17 5.8	1.888	2.850	7.8	18.7
5 31	17 20.72	-24 55.6	1.832	2.832	4.1	21.9	5 31	17 18.83	-16 59.5	1.837	2.837	4.3	18.5
6 10	17 10.31	-24 55.8	1.807	2.822	0.7	21.7	6 10	17 10.45	-16 56.6	1.813	2.825	2.2	18.3
6 20	16 59.81	-24 51.4	1.811	2.811	4.5	21.9	6 20	17 2.01	-16 57.7	1.816	2.812	5.0	18.5
6 30	16 50.34	-24 44.0	1.841	2.799	8.6	22.1	6 30	16 54.45	-17 3.8	1.844	2.800	8.7	18.7
7 10	16 42.82	-24 35.8	1.896	2.787	12.2	22.3	7 10	16 48.58	-17 15.3	1.897	2.789	12.2	18.8
106508	2000 WR ₃₉		6 9.4 224°09	3°1/ 8.8	18		45276	2000 AO ₁₂		6 9.4 176°22	1°1/ 9.5	18	R
5 1	17 35.95	-12 21.8	2.704										

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
86000	1999 <i>JT</i> ₇₈		6 9.4 353°30	10°6/ 7.3	18		71933	2000 <i>WW</i> ₆₁		6 9.4 172°44	0°0/ 9.3	17	
5 1	17 34.75	- 1 1.0	1.567	2.372	18.1	19.0	5 1	17 43.43	-23 41.0	2.013	2.813	14.8	20.5
5 11	17 31.81	+ 0 17.3	1.497	2.370	15.5	18.8	5 11	17 38.25	-23 36.0	1.926	2.817	11.7	20.3
5 21	17 26.33	+ 1 22.5	1.446	2.368	13.0	18.6	5 21	17 30.56	-23 28.4	1.861	2.820	8.1	20.1
5 31	17 18.89	+ 2 7.7	1.416	2.366	11.1	18.5	5 31	17 20.96	-23 17.2	1.822	2.823	4.0	19.8
6 10	17 10.46	+ 2 27.7	1.408	2.365	10.6	18.5	6 10	17 10.40	-23 2.5	1.809	2.825	0.3	19.5
6 20	17 2.10	+ 2 20.1	1.423	2.365	12.0	18.6	6 20	16 59.93	-22 45.1	1.825	2.826	4.5	19.9
6 30	16 54.92	+ 1 45.6	1.460	2.365	14.3	18.7	6 30	16 50.62	-22 27.1	1.868	2.826	8.5	20.1
7 10	16 49.76	+ 0 48.2	1.516	2.365	17.0	18.9	7 10	16 43.33	-22 11.1	1.936	2.825	12.1	20.3
430014	2013 <i>RY</i>		6 9.4 217°19	2°0/ 9.8	17		270966	2002 <i>VL</i> ₁₀₀		6 9.4 197°60	3°4/10.1	17	
5 1	17 42.22	-28 25.4	2.029	2.828	14.7	22.3	5 1	17 43.90	-31 54.2	2.044	2.835	14.9	21.5
5 11	17 37.55	-28 37.5	1.933	2.822	11.8	22.1	5 11	17 38.93	-32 15.3	1.952	2.832	12.1	21.3
5 21	17 30.24	-28 44.7	1.859	2.814	8.4	21.9	5 21	17 31.22	-32 29.6	1.881	2.829	8.8	21.1
5 31	17 20.85	-28 44.7	1.809	2.807	4.6	21.6	5 31	17 21.37	-32 33.7	1.834	2.825	5.4	20.9
6 10	17 10.34	-28 36.2	1.786	2.798	2.0	21.4	6 10	17 10.37	-32 25.7	1.815	2.821	3.4	20.8
6 20	16 59.79	-28 19.5	1.791	2.789	4.8	21.6	6 20	16 59.40	-32 5.6	1.822	2.816	5.4	20.9
6 30	16 50.37	-27 56.6	1.822	2.780	8.7	21.8	6 30	16 49.64	-31 36.0	1.857	2.811	8.8	21.1
7 10	16 42.99	-27 31.1	1.878	2.770	12.3	22.0	7 10	16 42.05	-31 1.0	1.916	2.805	12.2	21.3
202493	2006 <i>BV</i> ₇₀		6 9.4 324°43	1°7/ 9.4	18		322490	2011 <i>UT</i> ₂₉₆		6 9.4 284°72	3°1/ 8.5	16	
5 1	17 34.34	-24 4.9	1.353	2.197	18.3	19.7	5 1	17 35.40	-16 12.8	2.177	2.988	13.5	21.2
5 11	17 32.84	-24 41.1	1.252	2.167	14.9	19.4	5 11	17 31.73	-15 32.8	2.083	2.978	10.8	21.0
5 21	17 27.99	-25 19.1	1.169	2.139	10.5	19.1	5 21	17 26.00	-14 53.3	2.010	2.968	7.7	20.8
5 31	17 20.16	-25 56.6	1.107	2.110	5.6	18.7	5 31	17 18.69	-14 16.0	1.962	2.958	4.6	20.6
6 10	17 10.36	-26 30.5	1.069	2.083	1.7	18.4	6 10	17 10.55	-13 43.2	1.942	2.948	3.2	20.5
6 20	17 0.03	-26 58.3	1.054	2.057	6.3	18.6	6 20	17 2.41	-13 17.0	1.948	2.938	5.5	20.6
6 30	16 50.89	-27 19.6	1.062	2.032	11.8	18.8	6 30	16 55.14	-12 59.0	1.981	2.928	8.8	20.8
7 10	16 44.43	-27 36.5	1.089	2.008	16.9	19.0	7 10	16 49.45	-12 50.4	2.038	2.919	11.9	21.0
506532	2004 <i>TB</i> ₁₉₄		6 9.4 86°99	4°5/ 7.9	18		11601	1995 <i>SE</i> ₄		6 9.4 248°05	1°5/ 9.9	18	
5 1	17 38.04	-14 53.9	1.833	2.648	15.5	20.6	5 1	17 41.01	-29 40.4	2.024	2.824	14.7	18.5
5 11	17 33.95	-13 47.9	1.760	2.656	12.4	20.4	5 11	17 36.54	-29 16.5	1.926	2.815	11.8	18.3
5 21	17 27.51	-12 42.8	1.707	2.664	8.9	20.2	5 21	17 29.49	-28 43.9	1.849	2.805	8.4	18.1
5 31	17 19.38	-11 42.0	1.680	2.671	5.7	20.0	5 31	17 20.47	-28 1.3	1.796	2.795	4.5	17.8
6 10	17 10.46	-10 49.3	1.678	2.679	4.6	20.0	6 10	17 10.44	-27 9.2	1.771	2.784	1.5	17.6
6 20	17 1.74	-10 8.0	1.704	2.687	6.9	20.1	6 20	17 0.48	-26 9.9	1.773	2.773	4.6	17.8
6 30	16 54.19	- 9 40.1	1.754	2.695	10.2	20.3	6 30	16 51.69	-25 7.5	1.802	2.762	8.6	18.0
7 10	16 48.55	- 9 26.4	1.828	2.703	13.4	20.5	7 10	16 44.94	-24 6.8	1.856	2.751	12.3	18.2
187319	2005 <i>US</i> ₄₃		6 9.4 278°82	6°1/10.1	18		500087	2011 <i>YL</i> ₅₇		6 9.4 79°92	1°0/ 9.3	17	
5 1	17 41.93	-39 5.4	2.380	3.149	13.7	20.3	5 1	17 41.11	-19 31.8	1.473	2.300	18.0	21.4
5 11	17 37.35	-40 10.1	2.292	3.147	11.5	20.1	5 11	17 37.31	-19 44.8	1.397	2.303	14.3	21.1
5 21	17 30.15	-41 6.8	2.225	3.145	9.1	19.9	5 21	17 30.41	-20 0.5	1.341	2.306	9.9	20.9
5 31	17 20.85	-41 50.9	2.183	3.144	7.1	19.8	5 31	17 21.06	-20 18.1	1.307	2.309	5.0	20.6
6 10	17 10.35	-42 18.6	2.166	3.142	6.1	19.7	6 10	17 10.41	-20 36.6	1.298	2.312	1.1	20.3
6 20	16 59.76	-42 28.2	2.177	3.141	7.0	19.8	6 20	16 59.82	-20 55.3	1.314	2.316	5.7	20.7
6 30	16 50.23	-42 21.1	2.213	3.139	9.1	19.9	6 30	16 50.68	-21 14.7	1.355	2.319	10.5	21.0
7 10	16 42.73	-42 1.0	2.272	3.138	11.5	20.1	7 10	16 44.04	-21 35.8	1.418	2.322	14.7	21.2
80313	1999 <i>XW</i> ₇₆		6 9.4 230°09	0°2/ 9.4	18		41283	1999 <i>XM</i> ₀₉		6 9.4 281°97	0°5/ 9.3	18	
5 1	17 42.11	-23 11.2	2.028	2.831	14.6	20.4	5 1	17 33.60	-20 25.8	3.234	4.030	9.8	18.5
5 11	17 37.40	-23 3.9	1.926	2.818	11.7	20.2	5 11	17 29.72	-20 35.9	3.123	4.011	7.8	18.3
5 21	17 30.13	-22 54.0	1.845	2.805	8.1	19.9	5 21	17 24.34	-20 46.6	3.035	3.993	5.4	18.2
5 31	17 20.83	-22 40.9	1.790	2.791	4.1	19.7	5 31	17 17.81	-20 57.5	2.973	3.974	2.7	17.9
6 10	17 10.38	-22 24.5	1.761	2.776	0.3	19.3	6 10	17 10.62	-21 8.5	2.941	3.956	0.5	17.7
6 20	16 59.84	-22 5.9	1.761	2.761	4.7	19.6	6 20	17 3.35	-21 19.5	2.938	3.937	3.1	17.9
6 30	16 50.33	-21 47.0	1.787	2.745	8.9	19.9	6 30	16 56.60	-21 30.9	2.963	3.918	5.9	18.1
7 10	16 42.75	-21 30.4	1.838	2.728	12.6	20.0	7 10	16 50.90	-21 43.0	3.015	3.900	8.4	18.2
501809	2014 <i>WD</i> ₅₂		6 9.4 125°04	2°5/ 9.7	17		282287	2002 <i>PX</i> ₈₉		6 9.4 293°97	0°3/ 9.5	17	
5 1	17 42.53	-27 11.6	1.577	2.394	17.4	21.1	5 1	17 38.02	-26 29.2	1.905	2.719	15.0	19.8
5 11	17 38.48	-27 46.1	1.498	2.397	14.0	20.9	5 11	17 34.36	-25 59.6	1.805	2.703	12.0	19.6
5 21	17 31.24	-28 17.5	1.439	2.399	9.9	20.6	5 21	17 28.12	-25 22.8	1.724	2.686	8.4	19.3
5 31	17 21.47	-28 42.4	1.403	2.401	5.5	20.4	5 31	17 19.85	-24 38.4	1.669	2.670	4.2	19.0
6 10	17 10.34	-28 58.0	1.392	2.404	2.5	20.2	6 10	17 10.49	-23 47.4	1.639	2.654	0.4	18.7
6 20	16 59.25	-29 3.4	1.407	2.406	5.7	20.4	6 20	17 1.11	-22 52.6	1.637	2.639	4.7	19.0
6 30	16 49.63	-29 0.3	1.446	2.408	10.1	20.7	6 30	16 52.84	-21 57.8	1.661	2.623	9.1	19.2
7 10	16 42.59	-28 52.3	1.509	2.410	14.2	20.9	7 10	16 46.58	-21 7.1	1.709	2.607	12.9	19.4
396017	2013 <i>BT</i> ₇₈		6 9.4 120°78	1°1/ 9.6	17		261542	2005 <i>WH</i> ₁₂₅		6 9.4 238°71	0°2/ 9.5	18	
5 1	17 38.98	-25 40.9	2.664	3.456	11.8	21.7	5 1	17 36.84	-23 48.5	2.742	3.538	11.4	22.0
5 11	17 34.13	-26 4.4	2.584	3.469	9.3	21.6	5 11	17 32.53	-23 47.9	2.638	3.527	9.0	21.9
5 21	17 27.40	-26 25.8	2.526	3.481	6.5	21.4	5 21	17 26.39	-23 45.3	2.556	3.514	6.2	21.7
5 31	17 19.29	-26 43.7	2.495	3.494	3.4	21.2	5 31	17 18.85	-23 40.2	2.501	3.502	3.1	21.4
6 10	17 10.49	-26 57.0	2.492	3.506	1.2	21.1	6 10	17 10.56	-23 32.4	2.474	3.489	0.2	21.1
6 20	17 1.77	-27 5.5	2.518	3.517	3.6	21.3	6 20	17 2.23	-23 22.6	2.476	3.476	3.5	21.4
6 30	16 53.90	-27 10.0	2.573	3.529	6.6	21.5	6 30	16 54.61	-23 11.8	2.506	3.463	6.7	21.6
7 10	16 47.51	-27 11.9	2.653	3.540	9.3	21.7	7 10	16 48.34	-23 1.5	2.562	3.449	9.6	21.8
215371	2001 <i>YD</i> ₁₀₂		6 9.4 192°79	0°7/ 9.2	18		478140	2011 <i>UL</i> ₁₃₈					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
480324	2015 <i>HU</i> ₁₇₉		6 9.4 251°40	3°4/ 8.8	17		249234	2008 <i>GN</i> ₁₀₀		6 9.4 276°48	7°2/ 6.3	18	
5 1	17 37.25	-14 42.1	1.966	2.778	14.7	21.0	5 1	17 34.11	-4 14.2	2.426	3.211	13.0	20.4
5 11	17 33.40	-14 19.7	1.879	2.774	11.8	20.8	5 11	17 30.40	-2 52.8	2.338	3.203	10.9	20.3
5 21	17 27.26	-14 0.5	1.812	2.769	8.4	20.6	5 21	17 24.93	-1 37.0	2.273	3.194	8.9	20.1
5 31	17 19.36	-13 46.1	1.770	2.765	5.0	20.4	5 31	17 18.13	-0 31.5	2.233	3.185	7.5	20.0
6 10	17 10.53	-13 38.0	1.754	2.761	3.4	20.3	6 10	17 10.65	+0 20.0	2.218	3.176	7.3	20.0
6 20	17 1.72	-13 37.3	1.765	2.756	5.8	20.4	6 20	17 3.19	+0 54.6	2.230	3.167	8.5	20.0
6 30	16 53.89	-13 44.7	1.802	2.752	9.3	20.6	6 30	16 56.46	+1 11.1	2.267	3.158	10.5	20.1
7 10	16 47.83	-14 0.3	1.862	2.747	12.7	20.8	7 10	16 51.08	+1 10.2	2.326	3.149	12.6	20.3
341978	2008 <i>QU</i> ₃₈		6 9.4 338°38	10°3/11.4	18		92172	1999 <i>XJ</i> ₁₈₅		6 9.4 213°19	4°9/10.1	18	
5 1	17 40.39	-43 55.5	1.464	2.258	19.7	20.2	5 1	17 41.24	-37 28.5	2.767	3.532	12.0	20.1
5 11	17 38.10	-44 58.6	1.383	2.248	17.0	20.0	5 11	17 36.37	-38 21.2	2.672	3.528	10.0	19.9
5 21	17 31.76	-45 45.8	1.319	2.238	14.2	19.8	5 21	17 29.26	-39 7.3	2.599	3.524	7.8	19.8
5 31	17 22.02	-46 8.7	1.274	2.229	11.6	19.6	5 31	17 20.39	-39 43.2	2.552	3.519	5.8	19.6
6 10	17 10.36	-46 0.7	1.251	2.221	10.3	19.5	6 10	17 10.52	-40 6.0	2.531	3.514	4.9	19.6
6 20	16 58.70	-45 20.3	1.249	2.214	11.1	19.5	6 20	17 0.56	-40 14.6	2.539	3.509	5.8	19.6
6 30	16 49.03	-44 12.0	1.270	2.207	13.5	19.6	6 30	16 51.45	-40 9.9	2.573	3.504	7.8	19.7
7 10	16 42.78	-42 45.2	1.310	2.202	16.5	19.8	7 10	16 44.01	-39 54.9	2.632	3.499	10.1	19.9
314150	2005 <i>EQ</i> ₂₅₁		6 9.4 126°66	0°9/ 9.5	18		186852	2004 <i>GH</i> ₃₈		6 9.4 98°47	4°1/10.3	17	
5 1	17 44.87	-24 28.2	1.816	2.620	16.0	21.7	5 1	17 42.47	-32 44.9	1.662	2.469	17.1	20.2
5 11	17 39.60	-24 44.9	1.743	2.635	12.7	21.5	5 11	17 38.37	-33 5.7	1.583	2.472	13.9	20.0
5 21	17 31.58	-24 59.5	1.690	2.650	8.8	21.3	5 21	17 31.12	-33 17.6	1.524	2.475	10.2	19.7
5 31	17 21.50	-25 10.0	1.663	2.663	4.4	21.0	5 31	17 21.41	-33 16.8	1.487	2.478	6.4	19.5
6 10	17 10.42	-25 15.1	1.662	2.677	0.9	20.8	6 10	17 10.46	-33 1.1	1.475	2.481	4.1	19.4
6 20	16 59.54	-25 15.0	1.689	2.689	4.8	21.1	6 20	16 59.66	-32 31.3	1.489	2.484	6.2	19.5
6 30	16 50.03	-25 11.2	1.742	2.701	8.9	21.4	6 30	16 50.41	-31 50.9	1.528	2.487	9.9	19.7
7 10	16 42.78	-25 6.4	1.819	2.712	12.6	21.6	7 10	16 43.73	-31 5.5	1.590	2.490	13.7	20.0
160291	2003 <i>CP</i> ₆		6 9.4 87°15	2°2/ 9.8	17		432399	2009 <i>YE</i> ₅		6 9.4 230°90	0°7/ 9.3	18	
5 1	17 43.15	-27 59.8	1.730	2.538	16.5	20.8	5 1	17 39.57	-20 45.4	2.040	2.848	14.4	21.6
5 11	17 38.42	-28 20.9	1.663	2.556	13.1	20.6	5 11	17 35.32	-20 47.8	1.945	2.840	11.4	21.4
5 21	17 30.83	-28 37.0	1.616	2.574	9.2	20.4	5 21	17 28.66	-20 50.3	1.872	2.833	7.9	21.2
5 31	17 21.13	-28 45.5	1.593	2.591	5.0	20.2	5 31	17 20.12	-20 52.6	1.823	2.825	4.0	20.9
6 10	17 10.44	-28 44.9	1.596	2.608	2.2	20.1	6 10	17 10.54	-20 54.6	1.802	2.817	0.8	20.7
6 20	17 0.03	-28 35.5	1.626	2.625	5.1	20.3	6 20	17 0.91	-20 56.3	1.808	2.808	4.6	20.9
6 30	16 51.10	-28 19.9	1.682	2.642	9.1	20.5	6 30	16 52.26	-20 59.0	1.841	2.799	8.6	21.1
7 10	16 44.53	-28 1.5	1.761	2.659	12.7	20.8	7 10	16 45.44	-21 3.7	1.898	2.790	12.2	21.4
363555	2003 <i>WB</i> ₁₀₅		6 9.4 271°47	0°2/ 9.4	18		302847	2003 <i>FV</i> ₁₁₃		6 9.4 48°28	7°9/ 7.2	17	
5 1	17 36.13	-20 58.4	2.674	3.473	11.6	21.1	5 1	17 34.73	-4 13.4	1.982	2.779	15.1	20.3
5 11	17 32.02	-21 18.1	2.573	3.464	9.1	21.0	5 11	17 31.10	-2 54.5	1.921	2.793	12.6	20.2
5 21	17 26.08	-21 38.7	2.496	3.455	6.3	20.8	5 21	17 25.45	-1 44.6	1.881	2.807	10.2	20.1
5 31	17 18.73	-21 59.4	2.445	3.446	3.1	20.5	5 31	17 18.37	-0 48.8	1.864	2.821	8.4	20.0
6 10	17 10.59	-22 19.7	2.422	3.437	0.3	20.3	6 10	17 10.66	-0 10.7	1.872	2.836	8.0	20.0
6 20	17 2.38	-22 39.0	2.428	3.428	3.6	20.5	6 20	17 3.14	+0 7.4	1.906	2.850	9.2	20.1
6 30	16 54.85	-22 57.4	2.461	3.419	6.8	20.7	6 30	16 56.63	+0 5.6	1.963	2.865	11.3	20.2
7 10	16 48.67	-23 15.5	2.521	3.409	9.7	20.9	7 10	16 51.74	-0 14.3	2.041	2.880	13.6	20.4
59567	1999 <i>JU</i> ₄₇		6 9.4 350°95	2°5/ 9.7	17		306458	1999 <i>ER</i> ₇		6 9.4 301°78	2°4/ 9.0	18	
5 1	17 34.78	-27 24.6	1.311	2.154	18.9	18.9	5 1	17 37.53	-18 4.4	1.622	2.448	16.6	19.5
5 11	17 32.99	-27 47.9	1.233	2.147	15.2	18.7	5 11	17 34.28	-17 47.5	1.534	2.439	13.3	19.2
5 21	17 27.84	-28 6.5	1.174	2.141	10.8	18.4	5 21	17 28.25	-17 31.8	1.466	2.430	9.3	19.0
5 31	17 19.93	-28 17.6	1.135	2.136	5.9	18.1	5 31	17 20.01	-17 18.5	1.421	2.421	5.0	18.7
6 10	17 10.51	-28 19.2	1.119	2.132	2.5	17.9	6 10	17 10.55	-17 8.7	1.400	2.412	2.5	18.5
6 20	17 1.08	-28 11.2	1.127	2.130	6.2	18.1	6 20	17 1.05	-17 3.8	1.406	2.404	5.9	18.7
6 30	16 53.23	-27 56.0	1.158	2.128	11.1	18.3	6 30	16 52.72	-17 5.0	1.436	2.396	10.4	18.9
7 10	16 48.13	-27 37.9	1.209	2.128	15.6	18.6	7 10	16 46.58	-17 13.3	1.488	2.388	14.4	19.2
396039	2013 <i>CP</i> ₂₃		6 9.4 190°95	2°3/10.1	18		127968	2003 <i>HD</i> ₂₈		6 9.4 121°52	2°1/ 9.8	17	
5 1	17 38.64	-30 46.3	2.557	3.345	12.3	21.4	5 1	17 41.92	-28 30.7	1.897	2.701	15.4	20.0
5 11	17 34.12	-30 51.3	2.464	3.345	9.9	21.2	5 11	17 37.33	-28 43.5	1.819	2.710	12.3	19.8
5 21	17 27.54	-30 50.4	2.394	3.344	7.1	21.0	5 21	17 30.07	-28 50.9	1.761	2.718	8.7	19.6
5 31	17 19.44	-30 41.8	2.349	3.342	4.1	20.8	5 31	17 20.79	-28 50.8	1.728	2.726	4.8	19.4
6 10	17 10.56	-30 25.1	2.331	3.341	2.3	20.7	6 10	17 10.53	-28 41.9	1.722	2.734	2.1	19.2
6 20	17 1.75	-30 0.8	2.343	3.339	4.1	20.8	6 20	17 0.42	-28 25.0	1.742	2.741	4.9	19.4
6 30	16 53.86	-29 31.0	2.382	3.337	7.1	21.0	6 30	16 51.60	-28 2.3	1.789	2.748	8.7	19.7
7 10	16 47.56	-28 58.4	2.446	3.335	9.9	21.2	7 10	16 44.95	-27 37.6	1.859	2.755	12.2	19.9
472978	2015 <i>HO</i> ₃		6 9.4 313°65	7°2/11.3	18		171313	2006 <i>HB</i> ₄₈		6 9.4 321°03	0°6/ 9.4	18	
5 1	17 43.88	-41 15.5	1.846	2.624	16.7	20.6	5 1	17 35.90	-21 8.7	1.177	2.029	20.0	19.4
5 11	17 39.58	-41 49.8	1.763	2.622	14.2	20.4	5 11	17 34.47	-21 46.4	1.087	2.007	16.2	19.1
5 21	17 32.01	-42 10.4	1.698	2.621	11.3	20.2	5 21	17 29.36	-22 29.7	1.014	1.986	11.4	18.7
5 31	17 21.86	-42 11.9	1.656	2.620	8.6	20.1	5 31	17 20.99	-23 16.7	0.962	1.966	5.8	18.3
6 10	17 10.40	-41 50.7	1.637	2.619	7.2	20.0	6 10	17 10.49	-24 4.3	0.931	1.946	0.7	17.9
6 20	16 59.11	-41 7.0	1.644	2.618	8.1	20.0	6 20	16 59.48	-24 49.2	0.923	1.928	6.7	18.3
6 30	16 49.43	-40 4.8	1.676	2.617	10.6	20.2	6 30	16 49.88	-25 30.0	0.938	1.910	12.7	18.5
7 10	16 42.44	-38 51.5	1.731	2.616	13.5	20.4	7 10	16 43.29	-26 7.3	0.971	1.894	18.1	18.8
180436	2004 <i>BA</i> ₁₀₆		6 9.4 26°62	0°8/ 9.5	17		270346	2001 <i>XC</i> ₂₄₉		6			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
222465	2001 <i>RG</i> ₉₈		6 9.4 210°31	7.4/ 7.3	17		304509	2006 <i>UM</i> ₁₉₇		6 9.4 209°53	0°6/ 9.6	18	
5 1	17 37.98	- 6 12.0	1.954	2.751	15.3	21.5	5 1	17 38.06	-24 55.1	2.795	3.587	11.3	21.9
5 11	17 33.88	- 5 1.3	1.872	2.747	12.8	21.3	5 11	17 33.46	-25 0.8	2.695	3.581	9.0	21.7
5 21	17 27.55	- 3 57.1	1.810	2.743	10.1	21.1	5 21	17 27.03	-25 4.1	2.618	3.574	6.2	21.5
5 31	17 19.52	- 3 4.2	1.772	2.739	8.0	21.0	5 31	17 19.22	-25 4.4	2.568	3.568	3.2	21.3
6 10	17 10.62	- 2 26.8	1.760	2.734	7.5	21.0	6 10	17 10.67	-25 1.2	2.545	3.560	0.6	21.1
6 20	17 1.75	- 2 7.7	1.773	2.729	9.0	21.0	6 20	17 2.11	-24 54.8	2.553	3.553	3.5	21.3
6 30	16 53.87	- 2 7.8	1.811	2.724	11.6	21.2	6 30	16 54.28	-24 46.3	2.588	3.544	6.5	21.5
7 10	16 47.72	- 2 25.7	1.871	2.718	14.3	21.3	7 10	16 47.82	-24 37.2	2.650	3.536	9.3	21.7
361796	2008 <i>BX</i> ₅₃		6 9.4 331°32	5°9/10.4	18		422215	2014 <i>RH</i> ₆₀		6 9.4 117°68	6°1/ 8.1	16	
5 1	17 40.05	-38 12.9	2.190	2.970	14.4	20.1	5 1	17 41.48	- 9 55.4	1.798	2.601	16.2	22.0
5 11	17 36.04	-39 1.2	2.102	2.966	12.0	19.9	5 11	17 36.60	- 8 55.5	1.733	2.617	13.2	21.9
5 21	17 29.34	-39 40.8	2.034	2.962	9.4	19.7	5 21	17 29.34	- 8 1.6	1.689	2.634	9.9	21.7
5 31	17 20.53	-40 7.0	1.989	2.959	7.0	19.6	5 31	17 20.36	- 7 17.3	1.669	2.649	7.0	21.5
6 10	17 10.55	-40 16.9	1.970	2.955	5.9	19.5	6 10	17 10.62	- 6 46.3	1.674	2.664	6.1	21.5
6 20	17 0.55	-40 9.4	1.977	2.952	6.9	19.5	6 20	17 1.14	- 6 30.3	1.707	2.679	7.9	21.7
6 30	16 51.70	-39 46.4	2.010	2.949	9.2	19.7	6 30	16 52.91	- 6 30.2	1.764	2.693	10.9	21.9
7 10	16 44.95	-39 12.3	2.067	2.946	11.9	19.8	7 10	16 46.65	- 6 44.7	1.844	2.706	13.8	22.1
295784	2008 <i>UB</i> ₂₂₇		6 9.4 119°91	1°7/ 9.8	17		314016	2004 <i>VC</i> ₁₃₀		6 9.4 217°66	2°0/ 9.1	17	
5 1	17 39.97	-27 40.3	2.029	2.833	14.5	21.7	5 1	17 42.29	-18 48.4	1.783	2.594	16.0	22.1
5 11	17 35.63	-27 51.3	1.947	2.838	11.6	21.5	5 11	17 37.80	-18 31.9	1.691	2.587	12.8	21.9
5 21	17 28.84	-27 57.6	1.886	2.843	8.1	21.3	5 21	17 30.57	-18 15.7	1.618	2.579	9.0	21.6
5 31	17 20.18	-27 57.7	1.849	2.848	4.4	21.1	5 31	17 21.17	-18 0.4	1.570	2.570	4.8	21.3
6 10	17 10.58	-27 50.6	1.840	2.853	1.7	20.9	6 10	17 10.56	-17 47.0	1.548	2.561	2.1	21.1
6 20	17 1.09	-27 36.8	1.858	2.857	4.5	21.1	6 20	16 59.90	-17 36.6	1.554	2.551	5.6	21.3
6 30	16 52.75	-27 18.3	1.902	2.862	8.2	21.4	6 30	16 50.39	-17 30.9	1.585	2.541	9.9	21.6
7 10	16 46.37	-26 58.1	1.970	2.866	11.6	21.6	7 10	16 43.00	-17 31.4	1.639	2.529	13.9	21.8
176436	2001 <i>WV</i> ₂₄		6 9.4 76°04	2°4/ 8.6	18		122440	2000 <i>QV</i> ₁₂₅		6 9.4 270°93	1°4/ 9.7	15	
5 1	17 37.95	-19 16.9	2.200	3.006	13.5	20.0	5 1	17 40.41	-26 55.6	1.925	2.732	15.1	21.6
5 11	17 33.43	-18 23.3	2.130	3.024	10.6	19.8	5 11	17 36.44	-27 0.2	1.818	2.712	12.2	21.4
5 21	17 26.95	-17 28.1	2.083	3.042	7.4	19.6	5 21	17 29.75	-27 0.3	1.732	2.691	8.6	21.1
5 31	17 19.09	-16 33.5	2.061	3.060	4.0	19.5	5 31	17 20.82	-26 54.1	1.671	2.670	4.6	20.8
6 10	17 10.66	-15 41.8	2.068	3.077	2.4	19.4	6 10	17 10.58	-26 40.7	1.635	2.649	1.4	20.6
6 20	17 2.48	-14 55.6	2.102	3.095	4.9	19.6	6 20	17 0.15	-26 20.3	1.627	2.628	4.9	20.8
6 30	16 55.35	-14 17.4	2.164	3.113	8.1	19.8	6 30	16 50.75	-25 55.4	1.645	2.606	9.2	21.0
7 10	16 49.86	-13 48.5	2.250	3.130	11.0	20.0	7 10	16 43.42	-25 29.2	1.686	2.584	13.1	21.2
204165	2004 <i>BW</i> ₂₅		6 9.4 172°68	1°8/ 9.9	17		258032	2001 <i>HC</i> ₆₃		6 9.4 34°72	13°8/ 3.5	18	
5 1	17 39.44	-28 45.3	2.178	2.978	13.8	20.6	5 1	17 40.40	- 8 36.0	1.002	1.849	23.1	19.6
5 11	17 35.08	-28 49.4	2.090	2.978	11.1	20.4	5 11	17 37.45	- 5 9.9	0.947	1.852	19.5	19.4
5 21	17 28.39	-28 48.0	2.024	2.979	7.8	20.2	5 21	17 30.80	- 1 44.5	0.911	1.856	16.0	19.2
5 31	17 19.94	-28 39.5	1.982	2.980	4.3	19.9	5 31	17 21.34	+ 1 23.5	0.895	1.859	13.9	19.1
6 10	17 10.60	-28 23.4	1.968	2.980	1.8	19.8	6 10	17 10.57	+ 3 57.0	0.901	1.863	14.3	19.1
6 20	17 1.35	-28 0.5	1.982	2.981	4.4	19.9	6 20	17 0.17	+ 5 44.4	0.927	1.867	16.8	19.3
6 30	16 53.15	-27 33.0	2.022	2.981	7.9	20.2	6 30	16 51.73	+ 6 42.2	0.971	1.872	20.1	19.5
7 10	16 46.81	-27 3.9	2.087	2.981	11.1	20.4	7 10	16 46.32	+ 6 54.9	1.031	1.877	23.4	19.7
478863	2012 <i>VK</i> ₈₀		6 9.4 252°33	0°3/ 9.4	17		163367	2002 <i>PP</i>		6 9.4 243°14	3°4/ 8.6	18	
5 1	17 39.06	-21 41.2	2.210	3.014	13.5	21.8	5 1	17 37.47	-13 52.5	2.401	3.199	12.7	20.2
5 11	17 34.82	-21 49.8	2.107	3.000	10.8	21.6	5 11	17 33.23	-13 25.5	2.298	3.185	10.3	20.0
5 21	17 28.30	-21 58.4	2.026	2.986	7.5	21.3	5 21	17 27.01	-13 0.8	2.218	3.170	7.4	19.8
5 31	17 19.97	-22 6.1	1.970	2.971	3.7	21.1	5 31	17 19.27	-12 40.3	2.162	3.154	4.6	19.6
6 10	17 10.61	-22 12.7	1.941	2.956	0.4	20.8	6 10	17 10.69	-12 25.4	2.135	3.138	3.4	19.5
6 20	17 1.11	-22 17.9	1.941	2.941	4.3	21.1	6 20	17 2.03	-12 17.4	2.135	3.122	5.4	19.6
6 30	16 52.48	-22 22.5	1.967	2.926	8.1	21.3	6 30	16 54.12	-12 17.3	2.163	3.105	8.4	19.7
7 10	16 45.53	-22 28.0	2.019	2.910	11.6	21.5	7 10	16 47.66	-12 25.4	2.215	3.088	11.4	19.9
141993	2002 <i>PQ</i> ₁₄₀		6 9.4 242°13	0°9/ 9.3	18		370387	2002 <i>TR</i> ₁₃₂		6 9.4 273°26	0°0/ 9.3	17	
5 1	17 41.04	-21 7.0	1.917	2.726	15.1	21.2	5 1	17 39.93	-24 21.3	1.659	2.479	16.6	21.3
5 11	17 36.73	-20 58.8	1.817	2.713	12.1	21.0	5 11	17 36.34	-24 7.2	1.562	2.464	13.3	21.0
5 21	17 29.80	-20 49.5	1.738	2.699	8.4	20.7	5 21	17 29.80	-23 48.7	1.485	2.449	9.3	20.7
5 31	17 20.78	-20 39.0	1.683	2.684	4.3	20.5	5 31	17 20.87	-23 25.0	1.432	2.434	4.7	20.4
6 10	17 10.56	-20 27.7	1.654	2.669	1.0	20.2	6 10	17 10.59	-22 56.5	1.404	2.419	0.3	20.0
6 20	17 0.22	-20 16.3	1.653	2.653	5.0	20.4	6 20	17 0.20	-22 24.9	1.402	2.404	5.3	20.4
6 30	16 50.90	-20 6.6	1.679	2.637	9.3	20.6	6 30	16 51.04	-21 53.4	1.425	2.388	10.1	20.6
7 10	16 43.57	-20 0.5	1.728	2.620	13.2	20.8	7 10	16 44.18	-21 25.5	1.471	2.373	14.4	20.8
16355	Buber		6 9.4 235°29	7°0/ 7.2	18		106504	2000 <i>WT</i> ₃₆		6 9.4 176°72	2°2/ 8.9	18	
5 1	17 37.63	- 6 5.4	2.128	2.919	14.4	19.3	5 1	17 35.80	-15 32.8	2.951	3.744	10.7	21.0
5 11	17 33.50	- 4 58.7	2.037	2.909	12.0	19.1	5 11	17 31.41	-15 18.2	2.861	3.745	8.5	20.8
5 21	17 27.26	- 3 57.9	1.966	2.897	9.5	18.9	5 21	17 25.47	-15 5.4	2.793	3.747	6.0	20.7
5 31	17 19.39	- 3 7.3	1.920	2.885	7.6	18.8	5 31	17 18.40	-14 55.3	2.753	3.748	3.5	20.5
6 10	17 10.65	- 2 30.7	1.900	2.873	7.1	18.7	6 10	17 10.76	-14 48.6	2.740	3.748	2.2	20.4
6 20	17 1.88	- 2 10.9	1.906	2.860	8.6	18.8	6 20	17 3.15	-14 45.9	2.757	3.748	4.0	20.5
6 30	16 53.96	- 2 9.0	1.937	2.847	11.1	18.9	6 30	16 56.20	-14 47.8	2.803	3.748	6.6	20.7
7 10	16 47.64	- 2 24.0	1.991	2.834	13.7	19.0	7 10	16 50.44	-14 54.6	2.873	3.747	9.1	20.9
476330	2007 <i>YV</i> ₆₆		6 9.4 204°16	1°9/10.0	18		188523	2004 <i>RF</i> ₉₉		6 9.4 2°05			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
26852	1992 <i>UK</i> ₂		6 9.4 218°74	5°7/ 9.9 18			397095	2005 <i>UP</i> ₄₃₆		6 9.5 259°82	2°6/ 8.6 18		
5 1	17 46.25	-37 16.5	2.312	3.079	14.1	19.1	5 1	17 35.66	-16 57.7	2.425	3.229	12.5	21.9
5 11	17 40.94	-38 18.0	2.213	3.070	11.8	18.9	5 11	17 31.77	-16 22.9	2.327	3.219	9.9	21.7
5 21	17 32.81	-39 12.8	2.135	3.061	9.2	18.7	5 21	17 25.98	-15 48.1	2.252	3.209	7.0	21.5
5 31	17 22.35	-39 55.7	2.082	3.051	6.8	18.5	5 31	17 18.77	-15 14.9	2.202	3.199	4.0	21.3
6 10	17 10.51	-40 22.5	2.056	3.040	5.7	18.4	6 10	17 10.81	-14 44.9	2.180	3.188	2.6	21.2
6 20	16 58.46	-40 31.3	2.058	3.029	6.8	18.5	6 20	17 2.84	-14 19.9	2.186	3.178	4.8	21.3
6 30	16 47.47	-40 23.1	2.086	3.017	9.3	18.6	6 30	16 55.65	-14 1.4	2.219	3.167	8.0	21.5
7 10	16 38.61	-40 2.0	2.138	3.005	12.0	18.8	7 10	16 49.89	-13 50.7	2.277	3.156	10.9	21.7
321805	2010 <i>PX</i> ₇₂		6 9.5 281°09	3°8/ 9.2 18			123242	2000 <i>US</i> ₆₁		6 9.5 250°42	1°6/ 9.8 18		
5 1	17 43.82	-29 55.2	2.438	3.220	13.0	20.6	5 1	17 42.06	-27 47.8	2.302	3.094	13.4	21.2
5 11	17 38.83	-31 14.5	2.327	3.202	10.6	20.4	5 11	17 37.30	-27 56.5	2.189	3.073	10.8	21.0
5 21	17 31.32	-32 33.7	2.240	3.184	7.8	20.2	5 21	17 30.11	-28 1.0	2.098	3.052	7.7	20.8
5 31	17 21.66	-33 48.7	2.180	3.166	5.1	20.0	5 31	17 20.97	-27 59.4	2.031	3.029	4.2	20.5
6 10	17 10.59	-34 54.9	2.148	3.148	3.8	19.9	6 10	17 10.68	-27 50.6	1.993	3.006	1.6	20.3
6 20	16 59.11	-35 49.1	2.145	3.130	5.5	20.0	6 20	17 0.21	-27 34.5	1.983	2.982	4.4	20.4
6 30	16 48.32	-36 30.2	2.170	3.111	8.5	20.1	6 30	16 50.60	-27 12.9	2.001	2.957	8.1	20.6
7 10	16 39.24	-36 59.6	2.221	3.093	11.4	20.3	7 10	16 42.77	-26 48.8	2.044	2.932	11.6	20.8
192035	2005 <i>YV</i> ₂₇₃		6 9.5 208°92	1°0/ 9.6 18			382566	2002 <i>AK</i> ₅₀		6 9.5 234°12	1°9/ 9.1 18		
5 1	17 40.20	-25 47.5	1.946	2.754	14.9	21.4	5 1	17 40.70	-17 44.7	2.376	3.171	12.9	22.1
5 11	17 36.00	-25 54.1	1.857	2.752	11.9	21.2	5 11	17 35.90	-17 34.8	2.268	3.155	10.4	21.9
5 21	17 29.23	-25 57.3	1.790	2.750	8.3	20.9	5 21	17 28.96	-17 25.9	2.182	3.138	7.3	21.7
5 31	17 20.48	-25 55.6	1.747	2.747	4.3	20.7	5 31	17 20.33	-17 18.6	2.122	3.120	3.9	21.5
6 10	17 10.67	-25 48.3	1.730	2.745	1.1	20.4	6 10	17 10.72	-17 13.2	2.090	3.102	1.9	21.3
6 20	17 0.90	-25 35.8	1.741	2.742	4.6	20.7	6 20	17 0.99	-17 10.6	2.087	3.083	4.6	21.4
6 30	16 52.25	-25 20.1	1.778	2.739	8.6	20.9	6 30	16 52.03	-17 11.7	2.112	3.063	8.1	21.6
7 10	16 45.62	-25 4.0	1.839	2.736	12.3	21.1	7 10	16 44.63	-17 17.3	2.162	3.042	11.4	21.8
425923	2011 <i>GP</i> ₁₇		6 9.5 14°72	2°1/ 8.9 16			373594	2002 <i>CA</i> ₁₂₂		6 9.5 175°87	3°4/ 8.7 18		
5 1	17 35.26	-21 0.1	1.378	2.220	18.2	20.9	5 1	17 39.54	-13 45.1	2.299	3.095	13.3	21.7
5 11	17 32.77	-20 21.6	1.309	2.224	14.4	20.6	5 11	17 34.80	-13 20.9	2.212	3.097	10.7	21.6
5 21	17 27.29	-19 40.3	1.259	2.229	10.0	20.4	5 21	17 28.05	-12 59.8	2.148	3.099	7.7	21.4
5 31	17 19.56	-18 58.0	1.232	2.234	5.2	20.1	5 31	17 19.78	-12 43.4	2.109	3.101	4.7	21.2
6 10	17 10.74	-18 17.5	1.228	2.241	2.2	19.9	6 10	17 10.76	-12 32.9	2.097	3.101	3.4	21.1
6 20	17 2.14	-17 41.9	1.248	2.249	6.1	20.2	6 20	17 1.79	-12 29.5	2.114	3.101	5.4	21.2
6 30	16 55.03	-17 14.4	1.293	2.257	10.8	20.5	6 30	16 53.71	-12 33.8	2.158	3.101	8.4	21.4
7 10	16 50.33	-16 57.0	1.358	2.267	14.9	20.8	7 10	16 47.20	-12 45.9	2.227	3.100	11.4	21.6
174042	2002 <i>AD</i> ₁₃₈		6 9.5 322°25	2°4/10.2 17			434724	2006 <i>DK</i> ₁₇₉		6 9.5 161°18	5°6/ 8.1 17		
5 1	17 38.42	-31 35.2	2.147	2.945	14.0	19.8	5 1	17 38.74	- 5 43.9	2.562	3.338	12.6	22.8
5 11	17 34.40	-31 24.3	2.055	2.941	11.3	19.6	5 11	17 33.84	- 5 3.8	2.482	3.345	10.4	22.7
5 21	17 27.99	-31 4.9	1.985	2.938	8.1	19.4	5 21	17 27.21	- 4 30.7	2.425	3.352	8.1	22.5
5 31	17 19.80	-30 35.5	1.939	2.934	4.7	19.2	5 31	17 19.31	- 4 7.2	2.393	3.359	6.2	22.4
6 10	17 10.72	-29 55.9	1.920	2.931	2.4	19.0	6 10	17 10.79	- 3 55.4	2.388	3.364	5.7	22.4
6 20	17 1.76	-29 8.0	1.929	2.927	4.6	19.2	6 20	17 2.37	- 3 56.3	2.411	3.369	6.8	22.5
6 30	16 53.90	-28 14.9	1.964	2.924	8.0	19.4	6 30	16 54.73	- 4 10.0	2.461	3.373	9.0	22.6
7 10	16 47.94	-27 21.0	2.024	2.921	11.3	19.6	7 10	16 48.47	- 4 35.3	2.535	3.376	11.2	22.8
494400	2016 <i>UU</i> ₅₈		6 9.5 2°14	5°5/10.5 16			102411	1999 <i>TB</i> ₁₇₇		6 9.5 321°23	0°0/ 9.3 17		
5 1	17 39.73	-37 14.2	2.105	2.891	14.7	21.3	5 1	17 39.88	-23 31.3	1.498	2.326	17.7	20.0
5 11	17 35.80	-37 55.6	2.021	2.891	12.2	21.2	5 11	17 36.45	-23 26.8	1.417	2.324	14.1	19.8
5 21	17 29.19	-38 28.0	1.957	2.891	9.4	21.0	5 21	17 29.93	-23 19.5	1.356	2.321	9.8	19.5
5 31	17 20.49	-38 47.1	1.916	2.891	6.8	20.8	5 31	17 20.96	-23 8.5	1.317	2.319	4.9	19.2
6 10	17 10.68	-38 50.3	1.901	2.891	5.5	20.7	6 10	17 10.69	-22 54.1	1.302	2.317	0.3	18.9
6 20	17 0.91	-38 37.0	1.912	2.892	6.6	20.8	6 20	17 0.47	-22 37.2	1.313	2.316	5.5	19.3
6 30	16 52.34	-38 9.4	1.949	2.893	9.1	21.0	6 30	16 51.69	-22 20.4	1.349	2.314	10.4	19.5
7 10	16 45.91	-37 32.1	2.009	2.894	11.9	21.1	7 10	16 45.39	-22 6.7	1.406	2.312	14.7	19.8
118466	1999 <i>XK</i> ₁₁₀		6 9.5 83°78	3°2/ 9.7 18			164787	1999 <i>FE</i> ₁₁		6 9.5 10°52	2°4/ 9.1 17		
5 1	17 40.78	-30 17.4	2.434	3.222	12.9	19.3	5 1	17 36.70	-19 15.8	1.173	2.024	20.2	20.0
5 11	17 36.02	-31 11.2	2.354	3.233	10.4	19.2	5 11	17 34.51	-18 56.1	1.105	2.025	16.1	19.7
5 21	17 29.02	-32 1.5	2.296	3.243	7.5	19.0	5 21	17 28.86	-18 37.0	1.055	2.026	11.2	19.4
5 31	17 20.31	-32 45.0	2.264	3.253	4.7	18.8	5 31	17 20.49	-18 19.9	1.026	2.029	5.9	19.2
6 10	17 10.70	-33 19.3	2.260	3.264	3.2	18.8	6 10	17 10.72	-18 6.5	1.019	2.032	2.5	19.0
6 20	17 1.08	-33 42.9	2.284	3.274	4.8	18.9	6 20	17 1.11	-17 58.5	1.035	2.037	6.8	19.2
6 30	16 52.42	-33 56.6	2.335	3.284	7.6	19.1	6 30	16 53.19	-17 57.6	1.073	2.042	12.0	19.5
7 10	16 45.48	-34 2.5	2.412	3.294	10.3	19.3	7 10	16 48.09	-18 5.2	1.131	2.047	16.7	19.8
303866	2005 <i>SA</i> ₂₇₂		6 9.5 292°23	6°0/ 7.4 16			386441	2008 <i>WF</i> ₆₈		6 9.5 248°81	0°1/ 9.4 17		
5 1	17 34.55	- 8 7.8	2.259	3.058	13.4	21.0	5 1	17 39.42	-21 56.1	2.093	2.900	14.1	21.5
5 11	17 30.92	- 7 4.2	2.174	3.053	11.1	20.8	5 11	17 35.25	-22 7.2	1.995	2.889	11.2	21.3
5 21	17 25.40	- 6 5.4	2.110	3.049	8.6	20.6	5 21	17 28.70	-22 18.3	1.918	2.879	7.8	21.1
5 31	17 18.46	- 5 15.0	2.072	3.044	6.6	20.5	5 31	17 20.25	-22 28.4	1.866	2.868	3.9	20.8
6 10	17 10.82	- 4 36.4	2.059	3.040	6.1	20.5	6 10	17 10.74	-22 37.0	1.842	2.857	0.3	20.5
6 20	17 3.21	- 4 11.9	2.073	3.035	7.5	20.5	6 20	17 1.13	-22 43.9	1.845	2.845	4.4	20.8
6 30	16 56.41	- 4 2.6	2.113	3.031	9.9	20.7	6 30	16 52.44	-22 49.8	1.874	2.834	8.4	21.0
7 10	16 51.08	- 4 8.1	2.175	3.026	12.4	20.8	7 10	16 45.55	-22 56.2	1.929	2.822	11.9	21.2
347856	2002 <i>RW</i> ₄₃		6 9.5 292°90	4°9/10.1 18			425669	2010 <i>XV</i> ₆₆					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
106719	2000 <i>WD</i> ₁₇₅		6 9.5 189°34	4.6/ 7.7	18		197166	2003 <i>UG</i> ₂₇₇		6 9.5 117°93	0.3/ 9.5	18	R
5 1	17 35.10	- 8 8.0	3.007	3.788	10.8	20.2	5 1	17 39.15	-24 45.2	2.015	2.823	14.5	20.7
5 11	17 30.80	- 7 18.1	2.917	3.786	8.9	20.0	5 11	17 34.96	-24 37.8	1.932	2.827	11.5	20.5
5 21	17 25.05	- 6 32.3	2.851	3.785	6.8	19.9	5 21	17 28.39	-24 26.9	1.871	2.832	7.9	20.3
5 31	17 18.22	- 5 53.0	2.812	3.783	5.1	19.8	5 31	17 20.04	-24 11.9	1.834	2.836	4.0	20.0
6 10	17 10.87	- 5 22.2	2.800	3.780	4.7	19.7	6 10	17 10.80	-23 52.9	1.824	2.840	0.4	19.8
6 20	17 3.57	- 5 1.5	2.817	3.777	5.8	19.8	6 20	17 1.68	-23 31.2	1.842	2.843	4.3	20.1
6 30	16 56.88	- 4 51.7	2.861	3.774	7.8	19.9	6 30	16 53.67	-23 8.9	1.886	2.847	8.2	20.3
7 10	16 51.31	- 4 52.7	2.929	3.770	9.9	20.1	7 10	16 47.56	-22 48.4	1.955	2.851	11.7	20.5
251869	1999 <i>VO</i> ₁₇		6 9.5 117°96	1.5/ 9.1	17		216860	2008 <i>BX</i> ₁₈		6 9.5 32°77	5.5/ 8.6	17	
5 1	17 40.93	-21 14.9	1.618	2.438	16.9	21.0	5 1	17 35.35	- 8 28.6	2.033	2.837	14.5	20.1
5 11	17 36.82	-20 46.6	1.542	2.444	13.4	20.8	5 11	17 31.74	- 7 58.9	1.957	2.842	11.9	19.9
5 21	17 29.90	-20 16.0	1.485	2.449	9.3	20.5	5 21	17 26.06	- 7 36.7	1.902	2.846	9.0	19.8
5 31	17 20.83	-19 43.8	1.453	2.455	4.7	20.3	5 31	17 18.85	- 7 24.6	1.871	2.851	6.4	19.6
6 10	17 10.73	-19 11.6	1.446	2.460	1.6	20.1	6 10	17 10.87	- 7 24.5	1.865	2.856	5.5	19.6
6 20	17 0.81	-18 41.9	1.465	2.465	5.5	20.3	6 20	17 2.97	- 7 37.4	1.886	2.861	7.0	19.7
6 30	16 52.27	-18 17.2	1.510	2.470	10.0	20.6	6 30	16 56.01	- 8 2.7	1.932	2.867	9.7	19.9
7 10	16 46.03	-17 59.9	1.577	2.474	13.9	20.9	7 10	16 50.68	- 8 39.0	2.001	2.872	12.5	20.0
273921	2007 <i>HT</i> ₈₅		6 9.5 315°17	0.7/ 9.4	17		143447	2003 <i>BO</i> ₇₈		6 9.5 126°99	0.6/ 9.4	18	
5 1	17 38.59	-20 54.9	1.547	2.375	17.2	20.0	5 1	17 38.43	-20 1.4	2.252	3.056	13.3	20.3
5 11	17 35.74	-21 42.5	1.447	2.353	13.9	19.8	5 11	17 34.13	-20 17.1	2.166	3.060	10.5	20.1
5 21	17 29.77	-22 35.8	1.367	2.332	9.7	19.5	5 21	17 27.71	-20 34.0	2.103	3.063	7.3	19.9
5 31	17 21.11	-23 32.7	1.309	2.312	5.0	19.1	5 31	17 19.69	-20 51.6	2.065	3.066	3.6	19.7
6 10	17 10.70	-24 30.0	1.277	2.292	0.7	18.8	6 10	17 10.82	-21 9.2	2.055	3.070	0.6	19.4
6 20	16 59.85	-25 24.3	1.270	2.272	5.6	19.1	6 20	17 1.98	-21 26.6	2.073	3.073	4.1	19.7
6 30	16 50.08	-26 13.9	1.288	2.253	10.7	19.3	6 30	16 54.05	-21 43.8	2.118	3.076	7.6	19.9
7 10	16 42.68	-26 58.7	1.328	2.235	15.3	19.5	7 10	16 47.74	-22 1.5	2.188	3.079	10.8	20.1
183	Istria		6 9.5 230°84	9.1/ 6.8	18		474134	1995 <i>SW</i> ₆₃		6 9.5 155°22	4.1/ 10.2	18	
5 1	17 37.79	+ 8 34.6	2.892	3.608	12.6	15.5	5 1	17 40.83	-34 33.7	2.455	3.234	13.0	21.9
5 11	17 33.07	+ 9 25.5	2.798	3.592	11.3	15.4	5 11	17 36.16	-35 9.6	2.368	3.238	10.6	21.7
5 21	17 26.72	+10 3.9	2.725	3.575	10.1	15.3	5 21	17 29.18	-35 38.7	2.302	3.240	8.0	21.5
5 31	17 19.12	+10 25.7	2.675	3.558	9.2	15.2	5 31	17 20.45	-35 57.8	2.262	3.243	5.4	21.4
6 10	17 10.84	+10 28.0	2.649	3.540	9.1	15.2	6 10	17 10.78	-36 4.9	2.249	3.246	4.1	21.3
6 20	17 2.50	+10 9.6	2.648	3.522	9.8	15.2	6 20	17 1.15	-35 59.6	2.263	3.248	5.3	21.4
6 30	16 54.77	+ 9 30.8	2.672	3.502	11.0	15.2	6 30	16 52.52	-35 43.5	2.305	3.250	7.8	21.5
7 10	16 48.21	+ 8 33.9	2.718	3.482	12.5	15.3	7 10	16 45.69	-35 19.7	2.371	3.252	10.5	21.7
315249	2007 <i>SS</i> ₃		6 9.5 295°11	0.2/ 9.5	17		271815	2004 <i>TO</i> ₁₂₃		6 9.5 303°43	0.7/ 9.4	17	
5 1	17 39.53	-23 17.8	1.386	2.220	18.5	20.9	5 1	17 37.52	-20 51.6	1.624	2.451	16.6	20.5
5 11	17 36.98	-23 22.9	1.281	2.191	15.0	20.6	5 11	17 34.66	-20 56.5	1.520	2.426	13.3	20.2
5 21	17 30.95	-23 26.5	1.194	2.162	10.6	20.2	5 21	17 28.86	-21 2.3	1.435	2.401	9.4	19.9
5 31	17 21.83	-23 27.3	1.129	2.132	5.5	19.9	5 31	17 20.59	-21 8.5	1.374	2.376	4.8	19.6
6 10	17 10.66	-23 24.2	1.087	2.103	0.4	19.4	6 10	17 10.76	-21 14.7	1.337	2.351	0.8	19.2
6 20	16 58.94	-23 17.0	1.070	2.073	6.3	19.7	6 20	17 0.60	-21 20.9	1.325	2.327	5.5	19.5
6 30	16 48.41	-23 7.9	1.075	2.043	12.1	19.9	6 30	16 51.48	-21 28.2	1.338	2.303	10.5	19.7
7 10	16 40.59	-23 0.3	1.102	2.014	17.3	20.1	7 10	16 44.57	-21 38.0	1.373	2.279	15.0	19.9
350161	2011 <i>SZ</i> ₂₂₁		6 9.5 259°76	6.4/ 10.3	18		55270	2001 <i>RT</i> ₁₄₇		6 9.5 98°81	2.0/ 9.3	18	
5 1	17 43.07	-40 50.1	2.470	3.228	13.5	21.0	5 1	17 38.66	-16 14.5	2.143	2.948	13.9	19.0
5 11	17 38.41	-41 46.7	2.368	3.214	11.5	20.8	5 11	17 34.30	-16 21.1	2.065	2.957	11.0	18.8
5 21	17 31.06	-42 34.8	2.287	3.200	9.3	20.6	5 21	17 27.81	-16 31.2	2.008	2.966	7.7	18.6
5 31	17 21.53	-43 9.4	2.230	3.185	7.3	20.5	5 31	17 19.72	-16 45.0	1.976	2.975	4.2	18.4
6 10	17 10.69	-43 26.9	2.199	3.170	6.4	20.4	6 10	17 10.83	-17 2.4	1.972	2.983	2.0	18.3
6 20	16 59.67	-43 25.6	2.195	3.155	7.2	20.4	6 20	17 2.03	-17 23.1	1.995	2.992	4.6	18.5
6 30	16 49.66	-43 6.8	2.216	3.140	9.2	20.5	6 30	16 54.19	-17 46.9	2.046	3.000	8.1	18.7
7 10	16 41.65	-42 34.5	2.261	3.124	11.6	20.7	7 10	16 48.03	-18 13.9	2.121	3.009	11.2	18.9
470701	2008 <i>TM</i> ₆₅		6 9.5 328°57	1.8/ 9.8	16		251898	1999 <i>VQ</i> ₁₁₂		6 9.5 283°86	2.4/ 9.3	18	
5 1	17 32.64	-27 22.9	1.284	2.133	18.9	20.4	5 1	17 42.61	-26 7.9	2.421	3.210	12.9	20.2
5 11	17 31.66	-27 22.2	1.188	2.106	15.3	20.0	5 11	17 37.79	-27 15.2	2.307	3.190	10.4	20.0
5 21	17 27.26	-27 14.2	1.109	2.079	10.9	19.7	5 21	17 30.57	-28 24.3	2.217	3.169	7.4	19.8
5 31	17 19.93	-26 56.9	1.051	2.054	5.9	19.3	5 31	17 21.31	-29 31.8	2.153	3.149	4.3	19.5
6 10	17 10.78	-26 29.5	1.016	2.030	1.8	19.0	6 10	17 10.73	-30 34.1	2.119	3.128	2.5	19.4
6 20	17 1.31	-25 53.1	1.003	2.007	6.3	19.2	6 20	16 59.77	-31 28.3	2.113	3.107	4.7	19.5
6 30	16 53.24	-25 11.9	1.012	1.985	11.8	19.4	6 30	16 49.47	-32 13.2	2.136	3.086	8.1	19.7
7 10	16 47.96	-24 31.5	1.040	1.965	17.0	19.7	7 10	16 40.79	-32 49.4	2.185	3.065	11.3	19.8
301028	2008 <i>SP</i> ₁₉₄		6 9.5 200°07	2.0/ 9.1	16		78273	2002 <i>PM</i> ₃₀		6 9.5 240°36	0.2/ 9.4	18	
5 1	17 43.31	-19 41.6	1.669	2.483	16.8	22.3	5 1	17 41.30	-23 15.5	1.801	2.613	15.8	20.6
5 11	17 38.77	-19 18.9	1.582	2.480	13.4	22.0	5 11	17 37.15	-23 8.3	1.705	2.603	12.6	20.4
5 21	17 31.33	-18 55.3	1.515	2.477	9.4	21.8	5 21	17 30.24	-22 58.4	1.630	2.592	8.8	20.1
5 31	17 21.62	-18 31.6	1.472	2.473	4.9	21.5	5 31	17 21.11	-22 45.2	1.579	2.581	4.4	19.8
6 10	17 10.70	-18 8.9	1.455	2.468	2.0	21.3	6 10	17 10.75	-22 28.7	1.554	2.570	0.3	19.5
6 20	16 59.79	-17 49.0	1.465	2.463	5.8	21.5	6 20	17 0.31	-22 10.0	1.556	2.558	5.0	19.8
6 30	16 50.18	-17 34.2	1.500	2.457	10.3	21.8	6 30	16 51.03	-21 51.2	1.585	2.545	9.5	20.1
7 10	16 42.86	-17 26.4	1.558	2.450	14.3	22.0	7 10	16 43.88	-21 35.3	1.636	2.533	13.5	20.3
41256	1999 <i>XX</i> ₄₅		6 9.5 331°19	4.0/ 9.3	18		499362	2009 <i>YQ</i> ₇					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
273863	2007 <i>GK</i> ₆₄		6 9.5 71°76'	4.4/ 8.3	17		207824	2007 <i>TO</i> ₃₅₃		6 9.5 235°30'	1.2/ 9.3	18	
5 1	17 38.96	-15 27.1	1.698	2.517	16.3	20.3	5 1	17 37.72	-19 59.5	2.132	2.940	13.8	21.1
5 11	17 34.89	-14 24.9	1.632	2.530	13.0	20.1	5 11	17 33.74	-19 53.0	2.042	2.937	10.9	20.9
5 21	17 28.33	-13 24.0	1.586	2.544	9.3	19.9	5 21	17 27.54	-19 46.5	1.973	2.934	7.6	20.7
5 31	17 19.98	-12 27.7	1.565	2.558	5.8	19.8	5 31	17 19.66	-19 40.3	1.930	2.931	3.9	20.4
6 10	17 10.85	-11 39.7	1.569	2.572	4.5	19.7	6 10	17 10.90	-19 34.7	1.914	2.928	1.2	20.2
6 20	17 1.98	-11 3.1	1.600	2.586	6.9	19.9	6 20	17 2.14	-19 30.5	1.925	2.924	4.5	20.4
6 30	16 54.41	-10 39.8	1.655	2.600	10.4	20.1	6 30	16 54.32	-19 28.6	1.963	2.921	8.2	20.7
7 10	16 48.87	-10 30.2	1.733	2.614	13.7	20.4	7 10	16 48.20	-19 30.2	2.025	2.917	11.5	20.9
440700	2005 <i>YV</i> ₁₀₀		6 9.5 257°67'	2.4/10.3	15		262309	2006 <i>TZ</i> ₁₂		6 9.5 153°26'	2°0/10.0	17	
5 1	17 39.41	-32 26.6	2.815	3.593	11.5	22.5	5 1	17 44.47	-29 48.1	2.032	2.825	14.9	21.2
5 11	17 34.73	-32 22.1	2.700	3.574	9.4	22.3	5 11	17 39.19	-29 44.0	1.949	2.833	11.9	21.0
5 21	17 28.06	-32 10.5	2.608	3.554	6.8	22.1	5 21	17 31.32	-29 32.7	1.888	2.840	8.5	20.8
5 31	17 19.87	-31 50.1	2.543	3.533	4.1	21.9	5 31	17 21.52	-29 12.4	1.851	2.847	4.7	20.6
6 10	17 10.85	-31 20.5	2.505	3.512	2.4	21.8	6 10	17 10.80	-28 42.6	1.842	2.854	2.0	20.4
6 20	17 1.80	-30 42.3	2.496	3.491	4.0	21.9	6 20	17 0.28	-28 4.9	1.860	2.859	4.6	20.6
6 30	16 53.54	-29 57.8	2.516	3.470	6.8	22.0	6 30	16 51.05	-27 22.4	1.906	2.864	8.4	20.9
7 10	16 46.75	-29 10.2	2.562	3.448	9.6	22.2	7 10	16 43.93	-26 39.4	1.977	2.869	11.8	21.1
232658	2003 <i>WR</i> ₄₃		6 9.5 310°20'	4.3/10.7	18		501755	2014 <i>UB</i> ₁₅₄		6 9.5 263°91'	3°0/ 9.1	17	
5 1	17 40.15	-34 55.6	1.824	2.624	16.1	19.8	5 1	17 41.00	-16 47.0	1.548	2.370	17.5	21.7
5 11	17 36.48	-35 2.2	1.732	2.615	13.2	19.6	5 11	17 37.40	-16 30.6	1.451	2.353	14.1	21.5
5 21	17 29.87	-34 57.8	1.659	2.606	9.9	19.3	5 21	17 30.74	-16 16.5	1.374	2.336	10.1	21.2
5 31	17 20.94	-34 39.1	1.610	2.598	6.4	19.1	5 31	17 21.54	-16 6.3	1.319	2.318	5.6	20.9
6 10	17 10.79	-34 4.4	1.586	2.589	4.3	19.0	6 10	17 10.79	-16 1.1	1.289	2.300	3.1	20.7
6 20	17 0.70	-33 15.0	1.587	2.581	6.0	19.0	6 20	16 59.79	-16 2.1	1.284	2.281	6.6	20.8
6 30	16 51.97	-32 14.8	1.614	2.573	9.5	19.2	6 30	16 49.96	-16 10.7	1.304	2.262	11.4	21.0
7 10	16 45.60	-31 9.9	1.665	2.565	13.1	19.4	7 10	16 42.47	-16 27.4	1.346	2.243	15.8	21.3
512653	2016 <i>TZ</i> ₆₄		6 9.5 280°62'	0°7/ 9.7	18		364866	2008 <i>DZ</i> ₄₈		6 9.5 77°82'	10°9/ 9.1	18	
5 1	17 37.79	-26 46.9	2.179	2.984	13.6	20.6	5 1	17 37.19	+11 38.5	2.342	3.059	15.2	20.5
5 11	17 33.85	-26 29.4	2.082	2.975	10.9	20.3	5 11	17 32.81	+12 20.5	2.281	3.070	13.7	20.4
5 21	17 27.65	-26 6.3	2.006	2.966	7.6	20.1	5 21	17 26.59	+12 44.3	2.239	3.081	12.3	20.3
5 31	17 19.71	-25 37.0	1.956	2.957	3.9	19.9	5 31	17 19.07	+12 45.3	2.217	3.091	11.3	20.3
6 10	17 10.87	-25 2.1	1.933	2.947	0.7	19.6	6 10	17 10.94	+12 21.2	2.218	3.102	10.9	20.3
6 20	17 2.06	-24 23.1	1.937	2.938	4.2	19.9	6 20	17 2.97	+11 32.0	2.242	3.113	11.4	20.3
6 30	16 54.23	-23 42.8	1.968	2.929	7.9	20.1	6 30	16 55.88	+10 20.0	2.289	3.123	12.5	20.4
7 10	16 48.16	-23 4.4	2.024	2.920	11.3	20.3	7 10	16 50.26	+ 8 49.6	2.357	3.134	13.9	20.5
167295	2003 <i>UC</i> ₂₀₉		6 9.5 350°07'	2°5/ 9.9	17		177267	2003 <i>WM</i> ₉₂		6 9.5 243°90'	4°1/ 8.8	17	
5 1	17 39.49	-28 53.5	1.879	2.688	15.4	20.3	5 1	17 40.05	-14 6.0	1.710	2.524	16.4	20.6
5 11	17 35.65	-29 12.5	1.794	2.687	12.3	20.1	5 11	17 36.15	-13 39.2	1.619	2.515	13.3	20.3
5 21	17 29.14	-29 26.5	1.729	2.686	8.8	19.8	5 21	17 29.56	-13 16.0	1.548	2.505	9.6	20.1
5 31	17 20.53	-29 32.9	1.689	2.686	5.0	19.6	5 31	17 20.81	-12 58.8	1.500	2.495	5.9	19.8
6 10	17 10.83	-29 30.4	1.674	2.685	2.5	19.4	6 10	17 10.86	-12 49.5	1.478	2.484	4.2	19.7
6 20	17 1.16	-29 18.9	1.686	2.685	5.0	19.6	6 20	17 0.82	-12 49.5	1.482	2.473	6.8	19.8
6 30	16 52.70	-29 0.6	1.724	2.685	8.9	19.8	6 30	16 51.89	-12 59.7	1.512	2.462	10.7	20.0
7 10	16 46.36	-28 38.9	1.785	2.685	12.4	20.0	7 10	16 45.04	-13 20.1	1.563	2.451	14.6	20.2
385799	2006 <i>CZ</i>		6 9.5 355°26'	21°9/11.7	18		37661	1994 <i>PJ</i> ₂₆		6 9.5 269°05'	0°8/ 9.3	18	
5 1	17 41.91	+18 56.5	1.132	1.877	26.9	20.3	5 1	17 37.09	-20 54.5	2.464	3.266	12.3	20.6
5 11	17 38.62	+20 28.8	1.081	1.876	25.3	20.2	5 11	17 33.08	-20 50.4	2.355	3.247	9.8	20.4
5 21	17 31.72	+21 23.9	1.042	1.875	23.7	20.1	5 21	17 27.06	-20 45.6	2.269	3.228	6.8	20.1
5 31	17 21.97	+21 28.9	1.015	1.874	22.5	20.0	5 31	17 19.45	-20 40.3	2.207	3.208	3.5	19.9
6 10	17 10.75	+20 35.2	1.003	1.874	21.9	19.9	6 10	17 10.95	-20 34.7	2.174	3.189	0.8	19.6
6 20	16 59.67	+18 42.0	1.007	1.874	22.2	19.9	6 20	17 2.32	-20 29.1	2.169	3.169	4.0	19.9
6 30	16 50.37	+15 55.8	1.027	1.875	23.3	20.0	6 30	16 54.42	-20 24.8	2.192	3.148	7.5	20.0
7 10	16 44.01	+12 30.4	1.063	1.875	25.0	20.2	7 10	16 47.98	-20 22.8	2.239	3.128	10.7	20.2
444081	2004 <i>SO</i> ₃		6 9.5 284°51'	19°2/ 1.1	17		148406	2000 <i>VC</i> ₅₄		6 9.5 230°72'	4°4/10.2	18	
5 1	17 37.67	+ 6 32.6	1.152	1.954	23.4	21.4	5 1	17 40.55	-35 15.1	2.473	3.252	13.0	20.3
5 11	17 35.20	+ 9 43.6	1.094	1.946	21.5	21.2	5 11	17 36.06	-35 56.1	2.380	3.248	10.7	20.1
5 21	17 29.37	+12 37.0	1.054	1.938	19.9	21.0	5 21	17 29.23	-36 30.4	2.307	3.243	8.1	19.9
5 31	17 20.83	+14 57.1	1.031	1.929	19.2	21.0	5 31	17 20.57	-36 54.8	2.260	3.238	5.6	19.8
6 10	17 10.81	+16 30.5	1.026	1.921	19.7	21.0	6 10	17 10.89	-37 6.7	2.240	3.234	4.4	19.7
6 20	17 0.79	+17 10.3	1.038	1.913	21.1	21.0	6 20	17 1.16	-37 5.3	2.247	3.229	5.6	19.8
6 30	16 52.29	+16 56.4	1.065	1.905	23.2	21.1	6 30	16 52.38	-36 52.0	2.281	3.224	8.0	19.9
7 10	16 46.48	+15 56.0	1.105	1.897	25.4	21.3	7 10	16 45.39	-36 30.1	2.339	3.219	10.7	20.1
144467	2004 <i>EV</i> ₅₁		6 9.5 177°40'	1°0/ 9.7	17		478106	2011 <i>UB</i> ₇₆		6 9.5 183°27'	0°2/ 9.4	18	
5 1	17 43.03	-25 34.7	1.976	2.778	15.0	21.0	5 1	17 37.42	-23 40.7	2.716	3.511	11.5	22.1
5 11	17 38.18	-25 43.8	1.889	2.780	11.9	20.8	5 11	17 32.96	-23 25.6	2.623	3.511	9.1	21.9
5 21	17 30.74	-25 49.8	1.823	2.781	8.3	20.6	5 21	17 26.73	-23 7.7	2.553	3.511	6.3	21.7
5 31	17 21.29	-25 50.9	1.782	2.782	4.3	20.4	5 31	17 19.18	-22 47.0	2.509	3.510	3.1	21.5
6 10	17 10.79	-25 46.4	1.768	2.782	1.0	20.1	6 10	17 10.98	-22 24.1	2.494	3.510	0.2	21.3
6 20	17 0.34	-25 36.5	1.782	2.782	4.6	20.4	6 20	17 2.84	-22 0.1	2.508	3.508	3.5	21.6
6 30	16 51.06	-25 23.0	1.822	2.781	8.6	20.6	6 30	16 55.49	-21 36.5	2.551	3.507	6.6	21.8
7 10	16 43.82	-25 8.8	1.887	2.780	12.2	20.8	7 10	16 49.51	-21 15.1	2.619	3.505	9.4	21.9
1251	Hedera		6 9.5 276°48'	3°2/ 8.9	18 R		307307	2002 <i>QD</i> ₇₈	</				

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
108442	2001 <i>KH</i> ₄₅		6 9.5	8 ^h 55	7 ^o .4 / 8.9	18	25194	1998 <i>ST</i> ₁₃₂		6 9.5	166 ^o .62	1 ^o .4 / 9.8	18
5 1	17 30.04	-10 31.6	0.983	1.850	21.9	17.9	5 1	17 39.53	-27 14.3	2.053	2.858	14.4	18.8
5 11	17 29.55	-9 50.5	0.928	1.852	17.9	17.6	5 11	17 35.36	-27 16.5	1.967	2.859	11.5	18.6
5 21	17 25.60	-9 20.5	0.889	1.856	13.4	17.4	5 21	17 28.76	-27 14.0	1.901	2.860	8.0	18.3
5 31	17 18.96	-9 7.5	0.868	1.861	9.2	17.2	5 31	17 20.33	-27 5.5	1.861	2.860	4.3	18.1
6 10	17 10.98	-9 14.9	0.867	1.869	7.4	17.1	6 10	17 10.95	-26 50.4	1.847	2.861	1.4	17.9
6 20	17 3.20	-9 43.7	0.887	1.879	9.9	17.3	6 20	17 1.65	-26 29.7	1.860	2.861	4.4	18.1
6 30	16 57.14	-10 31.7	0.927	1.890	14.1	17.5	6 30	16 53.45	-26 5.5	1.901	2.861	8.2	18.3
7 10	16 53.87	-11 34.4	0.984	1.904	18.3	17.8	7 10	16 47.16	-25 40.7	1.965	2.862	11.6	18.6
260932	2005 <i>RP</i> ₅₁		6 9.5	209 ^o .39	4 ^o /10.3	18	143989	2003 <i>YY</i> ₁₅₈		6 9.5	337 ^o .25	7 ^o .7/10.6	18
5 1	17 40.33	-34 37.5	2.535	3.313	12.7	20.8	5 1	17 39.92	-36 51.7	1.303	2.126	20.2	19.4
5 11	17 35.76	-35 10.1	2.441	3.310	10.4	20.6	5 11	17 37.81	-37 48.4	1.225	2.117	16.9	19.2
5 21	17 28.95	-35 36.1	2.369	3.307	7.8	20.4	5 21	17 31.71	-38 34.0	1.163	2.109	13.2	18.9
5 31	17 20.40	-35 52.5	2.323	3.304	5.3	20.3	5 31	17 22.25	-39 1.2	1.121	2.102	9.6	18.7
6 10	17 10.91	-35 57.2	2.303	3.300	4.0	20.2	6 10	17 10.84	-39 4.0	1.101	2.096	7.7	18.6
6 20	17 1.41	-35 49.9	2.311	3.297	5.2	20.2	6 20	16 59.35	-38 40.8	1.104	2.090	9.2	18.6
6 30	16 52.84	-35 32.0	2.347	3.293	7.7	20.4	6 30	16 49.76	-37 55.6	1.129	2.085	12.9	18.8
7 10	16 46.00	-35 6.7	2.407	3.289	10.3	20.6	7 10	16 43.52	-36 56.7	1.173	2.081	16.8	19.0
33601	1999 <i>JO</i> ₅₁		6 9.5	173 ^o .78	2 ^o .5 / 8.7	18	408343	2013 <i>GM</i> ₈₁		6 9.5	117 ^o .41	3 ^o .5 / 9.8	16
5 1	17 36.94	-16 42.2	2.528	3.327	12.2	18.6	5 1	17 45.24	-28 13.7	1.459	2.277	18.6	21.3
5 11	17 32.62	-16 7.2	2.440	3.329	9.7	18.4	5 11	17 41.05	-29 2.9	1.385	2.283	15.0	21.0
5 21	17 26.51	-15 32.6	2.375	3.330	6.8	18.2	5 21	17 33.37	-29 48.9	1.330	2.289	10.7	20.8
5 31	17 19.08	-14 59.9	2.336	3.331	3.9	18.0	5 31	17 22.86	-30 27.0	1.298	2.294	6.2	20.6
6 10	17 11.00	-14 30.6	2.325	3.332	2.6	17.9	6 10	17 10.81	-30 53.0	1.290	2.300	3.5	20.4
6 20	17 2.99	-14 6.4	2.342	3.333	4.7	18.1	6 20	16 58.82	-31 5.3	1.307	2.305	6.4	20.6
6 30	16 55.79	-13 48.7	2.387	3.333	7.6	18.2	6 30	16 48.49	-31 5.5	1.349	2.310	10.8	20.8
7 10	16 49.98	-13 38.4	2.457	3.333	10.3	18.4	7 10	16 41.02	-30 58.1	1.413	2.315	14.9	21.1
142499	2002 <i>TE</i> ₃₂		6 9.5	198 ^o .91	3 ^o .4 / 9.9	18	120166	2003 <i>HC</i> ₄₇		6 9.5	302 ^o .41	6 ^o .9 / 6.4	18
5 1	17 43.87	-30 14.2	1.881	2.680	15.7	20.4	5 1	17 35.17	-6 36.4	2.279	3.072	13.5	19.1
5 11	17 39.27	-30 48.9	1.793	2.678	12.7	20.2	5 11	17 31.41	-5 5.9	2.195	3.067	11.2	18.9
5 21	17 31.77	-31 18.8	1.724	2.676	9.2	19.9	5 21	17 25.79	-3 39.7	2.133	3.063	9.0	18.8
5 31	17 21.95	-31 40.1	1.680	2.673	5.5	19.7	5 31	17 18.77	-2 22.4	2.097	3.058	7.3	18.7
6 10	17 10.84	-31 50.1	1.662	2.670	3.4	19.6	6 10	17 11.05	-1 18.7	2.087	3.053	7.1	18.6
6 20	16 59.69	-31 47.9	1.671	2.667	5.6	19.7	6 20	17 3.39	-0 31.6	2.103	3.049	8.4	18.7
6 30	16 49.79	-31 35.4	1.707	2.663	9.3	19.9	6 30	16 56.54	-0 3.1	2.145	3.044	10.6	18.8
7 10	16 42.18	-31 16.5	1.765	2.658	12.9	20.1	7 10	16 51.13	+ 0 7.3	2.208	3.040	13.0	19.0
65688	1990 <i>VD</i> ₈		6 9.5	272 ^o .34	1 ^o .0 / 9.7	18	341044	2007 <i>GP</i> ₆₅		6 9.5	347 ^o .50	0 ^o .2 / 9.5	17
5 1	17 40.48	-26 16.7	2.135	2.936	14.0	19.8	5 1	17 34.05	-23 53.7	1.341	2.187	18.4	20.4
5 11	17 36.30	-26 15.4	2.020	2.911	11.3	19.5	5 11	17 32.27	-23 39.9	1.261	2.178	14.7	20.1
5 21	17 29.61	-26 9.9	1.927	2.885	8.0	19.3	5 21	17 27.33	-23 21.7	1.199	2.170	10.2	19.8
5 31	17 20.87	-25 58.9	1.858	2.858	4.2	19.0	5 31	17 19.85	-22 59.1	1.159	2.163	5.1	19.5
6 10	17 10.91	-25 41.6	1.817	2.831	1.0	18.7	6 10	17 11.00	-22 33.0	1.142	2.157	0.3	19.1
6 20	17 0.72	-25 18.8	1.803	2.804	4.5	18.9	6 20	17 2.17	-22 5.4	1.149	2.153	5.7	19.5
6 30	16 51.42	-24 52.4	1.816	2.776	8.6	19.1	6 30	16 54.78	-21 39.6	1.179	2.150	10.9	19.8
7 10	16 43.95	-24 25.5	1.854	2.748	12.3	19.3	7 10	16 49.95	-21 18.9	1.229	2.147	15.4	20.1
416606	2004 <i>QK</i> ₂		6 9.5	257 ^o .96	15 ^o .9 / 13.1	18	364344	2006 <i>UF</i> ₁₈₂		6 9.5	277 ^o .55	3 ^o .1 / 8.9	18
5 1	18 4.86	-63 41.2	1.997	2.642	19.4	20.5	5 1	17 40.15	-16 33.0	1.704	2.521	16.4	21.5
5 11	18 0.01	-65 28.0	1.923	2.635	18.3	20.4	5 11	17 36.56	-16 14.0	1.597	2.496	13.2	21.3
5 21	17 48.69	-66 54.7	1.864	2.628	17.2	20.3	5 21	17 30.11	-15 57.0	1.509	2.470	9.5	21.0
5 31	17 31.34	-67 49.4	1.821	2.621	16.4	20.2	5 31	17 21.27	-15 43.4	1.445	2.443	5.4	20.7
6 10	17 10.32	-68 1.7	1.796	2.614	15.9	20.1	6 10	17 10.93	-15 34.5	1.406	2.416	3.1	20.5
6 20	16 49.34	-67 27.3	1.789	2.607	16.1	20.1	6 20	17 0.24	-15 31.8	1.393	2.389	6.4	20.6
6 30	16 32.17	-66 10.4	1.800	2.599	16.7	20.1	6 30	16 50.52	-15 36.7	1.405	2.361	10.9	20.8
7 10	16 21.00	-64 22.1	1.829	2.592	17.8	20.2	7 10	16 42.90	-15 50.0	1.440	2.333	15.2	21.0
185763	1999 <i>TK</i> ₈₃		6 9.5	104 ^o .32	0 ^o .1 / 9.5	18	253776	2003 <i>WG</i> ₁₄₀		6 9.5	276 ^o .34	0 ^o .6 / 9.4	17
5 1	17 36.86	-22 35.3	2.388	3.192	12.6	21.4	5 1	17 41.11	-21 49.7	1.642	2.461	16.8	21.3
5 11	17 32.80	-22 36.3	2.302	3.195	10.0	21.2	5 11	17 37.56	-21 47.3	1.535	2.437	13.5	21.0
5 21	17 26.77	-22 36.1	2.237	3.197	6.9	21.0	5 21	17 30.94	-21 43.9	1.449	2.413	9.5	20.7
5 31	17 19.26	-22 34.3	2.199	3.200	3.4	20.8	5 31	17 21.74	-21 38.9	1.385	2.388	4.8	20.4
6 10	17 11.00	-22 30.8	2.188	3.203	0.2	20.5	6 10	17 10.91	-21 32.1	1.347	2.362	0.7	20.0
6 20	17 2.80	-22 26.1	2.205	3.205	3.8	20.8	6 20	16 59.73	-21 24.0	1.335	2.337	5.6	20.3
6 30	16 55.45	-22 21.2	2.249	3.208	7.2	21.0	6 30	16 49.62	-21 16.4	1.348	2.311	10.6	20.5
7 10	16 49.65	-22 17.7	2.318	3.211	10.2	21.2	7 10	16 41.82	-21 11.8	1.383	2.284	15.2	20.7
250877	2005 <i>UH</i> ₄₇₉		6 9.5	207 ^o .39	2 ^o .7 / 8.7	18	283102	2008 <i>UY</i> ₁₇₆		6 9.5	199 ^o .46	2 ^o .5 / 8.8	18
5 1	17 35.52	-14 25.5	2.886	3.679	11.0	21.7	5 1	17 38.76	-17 51.8	2.197	3.001	13.6	21.0
5 11	17 31.32	-14 0.0	2.790	3.674	8.8	21.5	5 11	17 34.41	-17 14.7	2.107	2.999	10.8	20.8
5 21	17 25.54	-13 36.3	2.717	3.669	6.3	21.4	5 21	17 27.95	-16 37.1	2.038	2.996	7.6	20.6
5 31	17 18.60	-13 15.8	2.671	3.663	3.8	21.2	5 31	17 19.89	-16 0.5	1.996	2.993	4.3	20.4
6 10	17 11.04	-12 59.7	2.653	3.657	2.8	21.1	6 10	17 11.03	-15 26.8	1.980	2.990	2.6	20.2
6 20	17 3.50	-12 49.0	2.664	3.651	4.4	21.2	6 20	17 2.22	-14 57.9	1.993	2.986	5.1	20.4
6 30	16 56.61	-12 44.5	2.703	3.645	7.0	21.4	6 30	16 54.34	-14 35.8	2.033	2.982	8.5	20.6
7 10	16 50.89	-12 46.5	2.767	3.638	9.5	21.5	7 10	16 48.1					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
278386	Sofivanna		6 9.5 321°59	10°9/ 7.8 17			477718	2010 SD ₁₅		6 9.5 349°37	12°8/ 4.2 16		
5 1	17 33.69	- 0 31.4	1.511	2.320	18.4	19.9	5 1	17 33.22	+ 9 50.4	2.073	2.818	16.1	21.2
5 11	17 31.54	+ 0 27.1	1.419	2.295	16.0	19.6	5 11	17 30.13	+11 41.9	2.009	2.814	14.7	21.1
5 21	17 26.67	+ 1 11.7	1.345	2.270	13.5	19.4	5 21	17 25.04	+13 17.2	1.964	2.811	13.5	21.0
5 31	17 19.54	+ 1 35.3	1.291	2.246	11.5	19.2	5 31	17 18.46	+14 29.3	1.940	2.809	12.9	20.9
6 10	17 11.03	+ 1 32.0	1.258	2.222	10.9	19.1	6 10	17 11.12	+15 13.0	1.937	2.806	12.9	20.9
6 20	17 2.27	+ 0 59.0	1.247	2.199	12.4	19.1	6 20	17 3.83	+15 25.9	1.956	2.804	13.7	21.0
6 30	16 54.48	- 0 3.4	1.258	2.177	15.1	19.2	6 30	16 57.41	+15 8.3	1.993	2.803	15.0	21.1
7 10	16 48.77	- 1 30.6	1.288	2.156	18.3	19.4	7 10	16 52.53	+14 23.8	2.049	2.802	16.4	21.2
123260	2000 UR ₇₆		6 9.5 168°66	0°6/ 9.6 18			211912	2004 QP ₁₇		6 9.5 155°21	6°3/ 12.0 18		
5 1	17 41.58	-24 42.3	2.299	3.094	13.3	21.1	5 1	17 54.85	-42 55.6	2.066	2.810	16.2	20.2
5 11	17 36.64	-24 50.0	2.211	3.098	10.6	20.9	5 11	17 47.67	-42 58.3	1.982	2.821	13.7	20.0
5 21	17 29.49	-24 55.3	2.145	3.102	7.3	20.7	5 21	17 37.27	-42 44.6	1.918	2.830	10.8	19.9
5 31	17 20.67	-24 57.0	2.105	3.105	3.7	20.5	5 31	17 24.54	-42 9.6	1.878	2.839	8.0	19.7
6 10	17 10.99	-24 54.7	2.093	3.107	0.6	20.3	6 10	17 10.83	-41 11.1	1.864	2.846	6.4	19.6
6 20	17 1.36	-24 48.4	2.109	3.109	4.0	20.5	6 20	16 57.64	-39 51.2	1.879	2.853	7.1	19.7
6 30	16 52.72	-24 39.7	2.153	3.111	7.6	20.8	6 30	16 46.30	-38 15.9	1.921	2.859	9.6	19.8
7 10	16 45.80	-24 30.6	2.222	3.111	10.8	21.0	7 10	16 37.75	-36 33.6	1.988	2.864	12.4	20.0
342516	2008 UA ₁₉₉		6 9.5 291°81	1°6/ 9.2 18			34582	2000 SH ₃₄₈		6 9.5 58°34	3°3/ 9.5 18		
5 1	17 38.81	-19 54.0	1.831	2.647	15.4	21.1	5 1	17 41.14	-12 37.6	1.621	2.436	17.2	18.3
5 11	17 35.38	-19 39.7	1.716	2.616	12.4	20.8	5 11	17 36.95	-12 57.8	1.552	2.448	13.8	18.1
5 21	17 29.24	-19 24.7	1.622	2.585	8.8	20.5	5 21	17 30.04	-13 26.9	1.502	2.460	9.8	17.9
5 31	17 20.83	-19 9.4	1.552	2.553	4.6	20.2	5 31	17 21.05	-14 5.1	1.476	2.472	5.7	17.7
6 10	17 10.97	-18 54.5	1.507	2.521	1.7	19.9	6 10	17 11.01	-14 51.5	1.475	2.484	3.3	17.5
6 20	17 0.76	-18 41.4	1.489	2.489	5.5	20.1	6 20	17 1.09	-15 44.0	1.501	2.497	6.0	17.7
6 30	16 51.42	-18 31.8	1.497	2.456	10.1	20.3	6 30	16 52.46	-16 40.9	1.552	2.509	10.0	18.0
7 10	16 44.05	-18 27.7	1.527	2.424	14.3	20.5	7 10	16 46.02	-17 40.2	1.627	2.522	13.7	18.3
16895	1998 DQ ₉		6 9.5 159°34	0°5/ 9.6 18			17642	1996 TY ₄		6 9.5 107°17	7°1/ 10.6 18		
5 1	17 39.23	-23 15.3	2.427	3.224	12.6	17.8	5 1	17 47.36	-39 34.5	1.944	2.717	16.2	18.4
5 11	17 34.71	-23 38.8	2.338	3.227	10.0	17.6	5 11	17 42.24	-40 41.6	1.873	2.729	13.6	18.2
5 21	17 28.14	-24 1.9	2.272	3.230	6.9	17.4	5 21	17 33.92	-41 38.4	1.821	2.742	10.8	18.1
5 31	17 20.00	-24 23.3	2.232	3.232	3.5	17.2	5 31	17 23.07	-42 18.6	1.792	2.754	8.3	17.9
6 10	17 11.03	-24 41.8	2.220	3.235	0.6	17.0	6 10	17 10.90	-42 37.6	1.789	2.766	7.1	17.9
6 20	17 2.05	-24 57.1	2.236	3.237	3.8	17.3	6 20	16 58.85	-42 34.4	1.811	2.778	8.0	18.0
6 30	16 53.94	-25 9.4	2.280	3.238	7.2	17.5	6 30	16 48.34	-42 11.5	1.859	2.790	10.3	18.1
7 10	16 47.38	-25 20.0	2.350	3.240	10.2	17.7	7 10	16 40.45	-41 35.0	1.930	2.801	12.9	18.3
1640	Nemo		6 9.5 305°18	7°0/ 9.8 18 R			441969	2010 MO ₇₀		6 9.5 324°97	1°8/ 9.9 18		
5 1	17 41.59	-34 11.9	1.371	2.191	19.4	16.7	5 1	17 35.59	-27 43.8	1.830	2.650	15.3	20.9
5 11	17 39.58	-35 9.1	1.256	2.151	16.4	16.3	5 11	17 32.82	-27 48.9	1.731	2.631	12.3	20.6
5 21	17 33.52	-36 1.8	1.159	2.110	12.7	16.0	5 21	17 27.40	-27 48.9	1.652	2.614	8.7	20.4
5 31	17 23.59	-36 42.9	1.082	2.068	9.0	15.7	5 31	17 19.85	-27 42.1	1.596	2.596	4.7	20.1
6 10	17 10.81	-37 4.4	1.027	2.027	7.0	15.4	6 10	17 11.07	-27 27.7	1.566	2.579	1.8	19.9
6 20	16 56.91	-37 1.0	0.995	1.985	9.3	15.4	6 20	17 2.18	-27 6.2	1.562	2.563	4.9	20.0
6 30	16 44.17	-36 32.8	0.985	1.944	14.0	15.5	6 30	16 54.35	-26 40.0	1.583	2.548	9.1	20.2
7 10	16 34.66	-35 46.7	0.995	1.903	19.1	15.7	7 10	16 48.57	-26 12.4	1.626	2.533	13.0	20.4
500690	2012 VS ₉₂		6 9.5 90°94	0°3/ 9.6 17			458148	2010 JW ₃₈		6 9.5 6°43	5°3/ 9.3 17		
5 1	17 40.17	-22 42.3	2.327	3.125	13.1	21.5	5 1	17 37.63	-12 14.7	1.138	1.984	20.9	20.8
5 11	17 35.36	-23 3.7	2.255	3.144	10.3	21.3	5 11	17 35.36	-12 2.6	1.070	1.984	17.0	20.5
5 21	17 28.49	-23 24.5	2.205	3.163	7.1	21.1	5 21	17 29.61	-12 0.5	1.020	1.985	12.4	20.3
5 31	17 20.12	-23 43.6	2.181	3.182	3.5	20.9	5 31	17 21.07	-12 11.4	0.989	1.986	7.7	20.0
6 10	17 11.03	-23 59.9	2.185	3.200	0.4	20.7	6 10	17 11.02	-12 36.8	0.981	1.988	5.3	19.9
6 20	17 2.08	-24 13.3	2.218	3.218	3.8	21.0	6 20	17 1.02	-13 16.0	0.995	1.991	8.3	20.1
6 30	16 54.11	-24 24.3	2.278	3.236	7.2	21.3	6 30	16 52.66	-14 7.2	1.031	1.994	13.0	20.3
7 10	16 47.79	-24 34.0	2.364	3.254	10.2	21.5	7 10	16 47.14	-15 7.5	1.086	1.998	17.5	20.6
211521	2003 QO ₅₉		6 9.5 326°91	6°1/ 10.1 17			499610	2010 TK ₁₈₄		6 9.5 293°93	4°2/ 8.9 17		
5 1	17 39.33	-33 1.3	1.267	2.099	20.1	19.9	5 1	17 38.46	-15 12.4	1.451	2.281	18.0	21.9
5 11	17 37.33	-33 54.9	1.185	2.088	16.6	19.7	5 11	17 35.74	-14 45.2	1.348	2.254	14.7	21.6
5 21	17 31.42	-34 41.4	1.120	2.077	12.5	19.4	5 21	17 29.88	-14 20.8	1.264	2.226	10.7	21.3
5 31	17 22.16	-35 14.1	1.076	2.067	8.3	19.1	5 31	17 21.31	-14 1.7	1.201	2.199	6.4	21.0
6 10	17 10.90	-35 27.7	1.054	2.057	6.1	19.0	6 10	17 11.00	-13 50.4	1.163	2.171	4.3	20.8
6 20	16 59.45	-35 19.8	1.054	2.048	8.3	19.0	6 20	17 0.26	-13 49.0	1.148	2.143	7.6	20.9
6 30	16 49.75	-34 53.2	1.077	2.040	12.6	19.3	6 30	16 50.59	-13 59.3	1.157	2.115	12.5	21.1
7 10	16 43.31	-34 15.0	1.119	2.033	17.0	19.5	7 10	16 43.31	-14 21.5	1.187	2.088	17.2	21.3
64562	2001 WX ₃₂		6 9.5 151°77	3°5/ 8.5 18			281001	2006 DT ₁₄₁		6 9.5 328°36	1°4/ 9.7 17		
5 1	17 36.42	-14 1.9	2.426	3.226	12.6	19.7	5 1	17 38.52	-25 29.6	1.699	2.520	16.2	20.9
5 11	17 32.28	-13 22.8	2.342	3.229	10.1	19.5	5 11	17 35.22	-25 47.7	1.612	2.514	13.0	20.7
5 21	17 26.32	-12 45.8	2.281	3.233	7.3	19.4	5 21	17 29.09	-26 3.4	1.545	2.508	9.1	20.5
5 31	17 19.03	-12 12.9	2.245	3.236	4.6	19.2	5 31	17 20.69	-26 14.8	1.502	2.502	4.8	20.2
6 10	17 11.09	-11 45.9	2.238	3.239	3.5	19.1	6 10	17 11.04	-26 20.3	1.483	2.497	1.4	19.9
6 20	17 3.23	-11 26.4	2.257	3.242	5.3	19.3	6 20	17 1.35	-26 19.9	1.491	2.493	5.1	20.2
6 30	16 56.19	-11 15.6	2.304	3.245	8.1	19.4	6 30	16 52.87	-26 14.9	1.524	2.488	9.5	20.4
7 10	16 50.58	-11 13.9	2.376	3.247	10.8	19.6	7 10	16 46.62	-26 8.1	1.579	2.484	13.4	20.6
25772	Ashpatra		6 9.5 210°65	3°2/ 8.8 18			92674	2000 QO ₅₇		6 9.5 313°99	2°9/ 9.9 18		
5 1	17 37.45	-15 7.2	2.										

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
513229	2005 <i>VJ</i> ₄₂		6 9.5 266°01	0°2/ 9.5 18			63633	2001 <i>QR</i> ₈₄		6 9.5 160°84	2°7/ 9.9 18		
5 1	17 39.24	-20 22.4	2.568	3.363	12.1	21.4	5 1	17 45.35	-29 10.9	1.623	2.431	17.4	19.0
5 11	17 34.79	-20 49.1	2.456	3.344	9.6	21.2	5 11	17 40.75	-29 28.2	1.543	2.435	14.0	18.8
5 21	17 28.30	-21 17.8	2.367	3.324	6.7	21.0	5 21	17 32.95	-29 39.4	1.483	2.439	10.0	18.5
5 31	17 20.18	-21 47.6	2.303	3.304	3.4	20.7	5 31	17 22.63	-29 41.3	1.445	2.442	5.7	18.3
6 10	17 11.07	-22 17.4	2.269	3.284	0.3	20.4	6 10	17 11.00	-29 31.8	1.434	2.445	2.7	18.1
6 20	17 1.76	-22 46.3	2.263	3.263	3.8	20.7	6 20	16 59.48	-29 11.4	1.448	2.447	5.6	18.3
6 30	16 53.09	-23 13.9	2.286	3.242	7.3	20.9	6 30	16 49.50	-28 43.2	1.488	2.449	10.0	18.6
7 10	16 45.83	-23 40.7	2.334	3.221	10.4	21.0	7 10	16 42.13	-28 12.0	1.551	2.451	14.0	18.8
502817	2015 <i>DM</i> ₁₂₃		6 9.5 169°09	1°2/ 9.4 17			290779	2005 <i>VB</i> ₃₂		6 9.5 232°08	0°6/ 9.6 18		
5 1	17 41.31	-18 36.8	2.044	2.847	14.5	21.4	5 1	17 37.87	-24 28.4	2.905	3.695	11.0	21.6
5 11	17 36.68	-18 48.2	1.958	2.850	11.5	21.2	5 11	17 33.40	-24 39.7	2.799	3.683	8.7	21.5
5 21	17 29.67	-19 2.0	1.893	2.852	8.0	21.0	5 21	17 27.15	-24 49.4	2.715	3.671	6.0	21.3
5 31	17 20.84	-19 17.6	1.854	2.854	4.1	20.8	5 31	17 19.54	-24 56.7	2.659	3.659	3.1	21.1
6 10	17 11.04	-19 34.5	1.842	2.856	1.2	20.6	6 10	17 11.16	-25 0.9	2.631	3.646	0.6	20.8
6 20	17 1.25	-19 52.5	1.858	2.857	4.6	20.8	6 20	17 2.71	-25 2.0	2.632	3.632	3.3	21.0
6 30	16 52.47	-20 11.6	1.901	2.858	8.4	21.1	6 30	16 54.91	-25 0.9	2.662	3.619	6.4	21.2
7 10	16 45.53	-20 32.4	1.968	2.858	11.9	21.3	7 10	16 48.40	-24 58.7	2.718	3.605	9.1	21.4
211549	2003 <i>SL</i> ₄₆		6 9.5 303°66	3°9/ 8.8 18			465353	2007 <i>YX</i> ₆₅		6 9.5 78°07	0°8/ 9.4 16		
5 1	17 37.34	-16 48.5	1.372	2.210	18.5	20.3	5 1	17 41.91	-21 11.4	1.518	2.341	17.7	22.0
5 11	17 34.81	-16 10.9	1.284	2.195	14.9	20.0	5 11	17 37.82	-21 11.4	1.451	2.354	14.0	21.8
5 21	17 29.11	-15 33.9	1.214	2.180	10.7	19.7	5 21	17 30.76	-21 11.2	1.403	2.368	9.7	21.5
5 31	17 20.83	-15 0.1	1.166	2.165	6.2	19.4	5 31	17 21.45	-21 10.3	1.379	2.381	4.8	21.3
6 10	17 11.04	-14 32.6	1.142	2.151	4.0	19.2	6 10	17 11.07	-21 8.7	1.379	2.394	0.8	21.0
6 20	17 1.10	-14 14.3	1.141	2.137	7.4	19.4	6 20	17 0.92	-21 6.8	1.406	2.407	5.3	21.4
6 30	16 52.47	-14 7.5	1.163	2.124	12.2	19.6	6 30	16 52.28	-21 6.3	1.457	2.421	9.9	21.7
7 10	16 46.33	-14 13.2	1.206	2.110	16.7	19.8	7 10	16 46.07	-21 8.8	1.531	2.434	13.9	22.0
30123	Scottrippeon		6 9.5 305°59	3°3/ 9.3 18			352001	2006 <i>UG</i> ₂₂₁		6 9.5 215°28	3°4/ 10.2 18		
5 1	17 37.48	-16 14.3	1.243	2.087	19.7	18.1	5 1	17 40.80	-33 17.1	2.608	3.386	12.4	22.0
5 11	17 35.45	-16 7.9	1.151	2.066	16.0	17.7	5 11	17 36.08	-33 42.9	2.509	3.380	10.1	21.8
5 21	17 29.95	-16 6.8	1.077	2.045	11.5	17.4	5 21	17 29.19	-34 2.6	2.433	3.374	7.5	21.6
5 31	17 21.44	-16 12.6	1.023	2.024	6.4	17.1	5 31	17 20.62	-34 13.6	2.382	3.367	4.8	21.4
6 10	17 11.00	-16 26.4	0.991	2.003	3.3	16.8	6 10	17 11.12	-34 14.3	2.358	3.360	3.4	21.3
6 20	17 0.15	-16 48.7	0.983	1.983	7.4	17.0	6 20	17 1.60	-34 4.4	2.363	3.353	4.7	21.4
6 30	16 50.60	-17 19.5	0.996	1.963	12.9	17.2	6 30	16 52.95	-33 45.2	2.396	3.345	7.4	21.6
7 10	16 43.80	-17 58.4	1.029	1.944	18.0	17.4	7 10	16 45.95	-33 19.8	2.453	3.336	10.1	21.7
142105	2002 <i>QX</i> ₈₃		6 9.5 255°09	3°3/ 9.9 17			509835	2008 <i>XJ</i> ₄₇		6 9.5 186°43	4°3/ 11.1 18		
5 1	17 42.84	-29 50.8	1.712	2.520	16.7	21.0	5 1	17 43.47	-37 20.4	2.235	3.010	14.3	21.8
5 11	17 38.89	-30 21.0	1.618	2.509	13.5	20.7	5 11	17 38.48	-37 19.6	2.144	3.010	11.8	21.7
5 21	17 31.81	-30 46.4	1.543	2.498	9.8	20.5	5 21	17 30.93	-37 7.4	2.074	3.009	8.9	21.5
5 31	17 22.15	-31 3.0	1.492	2.487	5.8	20.2	5 31	17 21.47	-36 40.8	2.029	3.009	6.0	21.3
6 10	17 10.98	-31 8.1	1.466	2.475	3.3	20.0	6 10	17 11.09	-35 58.8	2.010	3.008	4.3	21.2
6 20	16 59.65	-31 0.7	1.466	2.463	5.9	20.2	6 20	17 0.89	-35 2.7	2.019	3.007	5.5	21.3
6 30	16 49.61	-30 42.9	1.492	2.451	10.1	20.4	6 30	16 51.96	-33 56.5	2.055	3.005	8.3	21.4
7 10	16 42.02	-30 19.0	1.540	2.439	14.1	20.6	7 10	16 45.11	-32 45.4	2.116	3.004	11.3	21.6
377584	2005 <i>NH</i> ₄₃		6 9.5 319°57	1°1/ 9.3 17			186333	2002 <i>EN</i> ₂₃		6 9.5 10°84	0°8/ 9.4 16		
5 1	17 35.34	-22 12.5	1.336	2.180	18.6	21.5	5 1	17 35.73	-21 7.7	1.974	2.792	14.4	20.8
5 11	17 33.51	-21 54.8	1.243	2.159	14.9	21.2	5 11	17 32.38	-21 3.9	1.893	2.794	11.4	20.6
5 21	17 28.40	-21 33.7	1.169	2.139	10.5	20.9	5 21	17 26.76	-20 59.7	1.833	2.796	7.9	20.4
5 31	17 20.55	-21 9.7	1.116	2.120	5.3	20.5	5 31	17 19.41	-20 55.0	1.796	2.798	4.0	20.2
6 10	17 11.05	-20 43.9	1.086	2.101	1.1	20.2	6 10	17 11.19	-20 50.1	1.787	2.801	0.8	19.9
6 20	17 1.33	-20 18.3	1.080	2.083	6.2	20.4	6 20	17 3.03	-20 45.8	1.804	2.805	4.4	20.2
6 30	16 52.95	-19 56.2	1.097	2.066	11.7	20.7	6 30	16 55.89	-20 43.1	1.847	2.809	8.3	20.5
7 10	16 47.18	-19 40.9	1.133	2.050	16.6	20.9	7 10	16 50.53	-20 43.3	1.914	2.813	11.7	20.7
275721	2001 <i>AS</i> ₅		6 9.5 161°24	4°9/ 9.1 18			389984	2012 <i>TM</i> ₂₆₇		6 9.5 210°88	0°0/ 9.5 17		
5 1	17 39.89	- 8 22.2	2.139	2.930	14.3	20.4	5 1	17 39.45	-22 28.9	2.160	2.965	13.8	21.8
5 11	17 35.30	- 8 13.6	2.057	2.934	11.7	20.2	5 11	17 35.20	-22 39.7	2.069	2.962	10.9	21.6
5 21	17 28.57	- 8 13.2	1.995	2.937	8.8	20.0	5 21	17 28.68	-22 49.9	1.999	2.959	7.6	21.4
5 31	17 20.25	- 8 22.9	1.958	2.940	6.0	19.9	5 31	17 20.39	-22 58.6	1.955	2.956	3.8	21.2
6 10	17 11.09	- 8 43.7	1.949	2.943	4.9	19.8	6 10	17 11.15	-23 5.4	1.938	2.953	0.2	20.8
6 20	17 1.97	- 9 15.4	1.966	2.945	6.5	19.9	6 20	17 1.89	-23 10.0	1.948	2.949	4.2	21.2
6 30	16 53.76	- 9 57.0	2.010	2.948	9.3	20.1	6 30	16 53.58	-23 13.4	1.986	2.946	8.0	21.4
7 10	16 47.20	-10 46.8	2.079	2.949	12.2	20.3	7 10	16 47.00	-23 16.9	2.048	2.942	11.3	21.6
436834	2012 <i>SJ</i> ₉		6 9.5 252°12	4°9/ 10.1 18			435752	2008 <i>UO</i> ₁₆₇		6 9.5 176°57	0°9/ 9.4 17		
5 1	17 43.32	-35 19.2	2.247	3.026	14.1	21.7	5 1	17 39.18	-20 50.3	2.055	2.863	14.2	22.1
5 11	17 38.72	-36 5.4	2.142	3.010	11.7	21.5	5 11	17 35.01	-20 42.8	1.968	2.864	11.3	21.9
5 21	17 31.40	-36 45.3	2.059	2.995	8.9	21.3	5 21	17 28.53	-20 34.7	1.903	2.864	7.8	21.6
5 31	17 21.87	-37 14.6	2.000	2.979	6.3	21.1	5 31	17 20.30	-20 26.1	1.863	2.865	4.0	21.4
6 10	17 11.00	-37 29.7	1.968	2.962	4.9	20.9	6 10	17 11.16	-20 17.3	1.850	2.865	1.0	21.2
6 20	16 59.92	-37 29.3	1.963	2.945	6.2	21.0	6 20	17 2.07	-20 9.1	1.865	2.865	4.5	21.4
6 30	16 49.84	-37 14.5	1.985	2.928	9.0	21.1	6 30	16 54.00	-20 2.8	1.906	2.865	8.3	21.7
7 10	16 41.78	-36 49.1	2.030	2.910	12.0	21.3	7 10	16 47.72	-20 0.0	1.971	2.864	11.7	21.9
173657	2001 <i>HN</i> ₁₄		6 9.5 20°96	2°5/ 9.8 17			201842	2003 <i>YS</i> ₈₀		6 9			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
420263	2011 <i>KO</i> ₁₄	6 9.5 126°64	2°9/ 9.9 17				115776	2003 <i>UF</i> ₂₁₂	6 9.5 208°66	0°3/ 9.5 17			
5 1	17 43.03	-29 18.5	2.025	2.822	14.8	21.4	5 1	17 39.27	-22 1.0	2.137	2.942	13.9	20.3
5 11	17 38.29	-29 55.8	1.945	2.830	11.9	21.2	5 11	17 35.07	-22 4.7	2.046	2.940	11.0	20.1
5 21	17 30.93	-30 29.0	1.887	2.839	8.5	21.0	5 21	17 28.59	-22 7.7	1.977	2.937	7.6	19.9
5 31	17 21.54	-30 54.9	1.853	2.846	5.0	20.8	5 31	17 20.35	-22 9.4	1.933	2.935	3.8	19.6
6 10	17 11.11	-31 11.1	1.845	2.854	2.9	20.7	6 10	17 11.18	-22 9.6	1.916	2.932	0.3	19.3
6 20	17 0.73	-31 16.8	1.866	2.861	5.1	20.9	6 20	17 2.01	-22 8.5	1.927	2.928	4.2	19.6
6 30	16 51.54	-31 13.5	1.912	2.868	8.5	21.1	6 30	16 53.80	-22 7.3	1.965	2.925	8.0	19.9
7 10	16 44.42	-31 4.3	1.984	2.875	11.8	21.3	7 10	16 47.33	-22 7.4	2.028	2.921	11.4	20.1
27435	2000 <i>FZ</i> ₃₅	6 9.5 108°14	2°9/ 9.4 18				119641	2001 <i>XP</i> ₂₅	6 9.6 222°28	1°0/ 9.7 18			
5 1	17 42.79	-14 3.3	1.758	2.565	16.3	18.6	5 1	17 42.54	-25 9.5	2.331	3.123	13.2	20.7
5 11	17 38.07	-14 15.7	1.685	2.577	13.0	18.5	5 11	17 37.61	-25 26.4	2.227	3.113	10.6	20.5
5 21	17 30.74	-14 34.6	1.633	2.589	9.2	18.2	5 21	17 30.37	-25 41.4	2.146	3.101	7.4	20.3
5 31	17 21.43	-15 0.3	1.604	2.601	5.2	18.0	5 31	17 21.28	-25 52.9	2.090	3.089	3.9	20.0
6 10	17 11.12	-15 32.2	1.602	2.612	2.9	17.9	6 10	17 11.14	-25 59.7	2.062	3.076	1.0	19.8
6 20	17 0.94	-16 9.2	1.628	2.624	5.6	18.1	6 20	17 0.88	-26 1.5	2.062	3.062	4.1	20.0
6 30	16 51.97	-16 50.3	1.679	2.634	9.5	18.4	6 30	16 51.48	-25 59.2	2.091	3.048	7.8	20.2
7 10	16 45.10	-17 34.7	1.755	2.645	13.1	18.6	7 10	16 43.79	-25 54.8	2.145	3.033	11.1	20.4
344084	1998 <i>TZ</i> ₂₇	6 9.5 275°54	1°8/ 9.1 18				339344	2005 <i>AZ</i> ₄	6 9.6 252°29	0°4/ 9.5 18			
5 1	17 38.26	-19 17.1	2.058	2.868	14.2	21.4	5 1	17 40.00	-20 42.1	2.030	2.838	14.4	20.8
5 11	17 34.48	-18 59.1	1.952	2.848	11.4	21.1	5 11	17 35.87	-20 59.2	1.934	2.829	11.5	20.6
5 21	17 28.34	-18 40.6	1.867	2.827	8.0	20.9	5 21	17 29.31	-21 17.8	1.859	2.819	8.0	20.4
5 31	17 20.31	-18 22.4	1.806	2.806	4.2	20.6	5 31	17 20.80	-21 36.9	1.808	2.810	4.0	20.1
6 10	17 11.17	-18 5.3	1.772	2.785	1.8	20.4	6 10	17 11.17	-21 55.6	1.785	2.800	0.4	19.8
6 20	17 1.88	-17 50.7	1.766	2.764	5.0	20.6	6 20	17 1.42	-22 13.3	1.789	2.790	4.5	20.1
6 30	16 53.46	-17 40.2	1.786	2.743	8.9	20.8	6 30	16 52.61	-22 30.4	1.820	2.780	8.5	20.3
7 10	16 46.77	-17 35.3	1.830	2.721	12.6	20.9	7 10	16 45.63	-22 47.5	1.875	2.770	12.2	20.5
43613	2002 <i>AH</i> ₁₇₇	6 9.5 301°29	4°5/ 8.9 18				246217	2007 <i>RX</i> ₁₇₅	6 9.6 276°80	5°0/ 8.2 17			
5 1	17 35.86	-9 57.8	2.200	3.001	13.7	18.9	5 1	17 36.55	-11 38.3	2.042	2.849	14.4	20.7
5 11	17 32.20	-9 42.5	2.109	2.993	11.1	18.7	5 11	17 32.96	-10 49.5	1.945	2.834	11.7	20.5
5 21	17 26.53	-9 33.8	2.038	2.986	8.3	18.5	5 21	17 27.17	-10 3.7	1.870	2.820	8.8	20.3
5 31	17 19.30	-9 33.5	1.993	2.978	5.6	18.3	5 31	17 19.67	-9 24.2	1.820	2.805	6.0	20.1
6 10	17 11.23	-9 43.0	1.973	2.970	4.5	18.2	6 10	17 11.22	-8 53.9	1.795	2.791	5.1	20.0
6 20	17 3.11	-10 2.8	1.981	2.963	6.2	18.3	6 20	17 2.71	-8 35.1	1.797	2.776	7.0	20.1
6 30	16 55.80	-10 32.6	2.014	2.956	9.0	18.5	6 30	16 55.06	-8 29.3	1.824	2.761	10.1	20.3
7 10	16 50.00	-11 11.3	2.072	2.949	12.0	18.7	7 10	16 49.06	-8 36.6	1.875	2.746	13.2	20.4
56736	2000 <i>NX</i> ₁₉	6 9.5 0°39	1°6/ 9.3 17				253610	2003 <i>UZ</i> ₄₉	6 9.6 236°18	1°4/ 9.4 18			
5 1	17 36.46	-20 49.9	1.410	2.248	18.1	18.9	5 1	17 42.61	-19 11.9	1.885	2.691	15.4	21.4
5 11	17 33.90	-20 30.6	1.334	2.247	14.4	18.7	5 11	17 38.16	-19 12.3	1.785	2.678	12.4	21.1
5 21	17 28.31	-20 10.0	1.277	2.246	10.0	18.4	5 21	17 31.02	-19 14.1	1.705	2.665	8.7	20.9
5 31	17 20.36	-19 48.8	1.243	2.246	5.1	18.2	5 31	17 21.71	-19 17.2	1.650	2.650	4.5	20.6
6 10	17 11.17	-19 28.5	1.232	2.246	1.6	17.9	6 10	17 11.12	-19 21.4	1.621	2.635	1.4	20.3
6 20	17 2.07	-19 11.0	1.245	2.247	5.9	18.2	6 20	17 0.35	-19 26.9	1.620	2.619	5.1	20.6
6 30	16 54.39	-18 58.4	1.283	2.249	10.7	18.5	6 30	16 50.59	-19 34.6	1.646	2.603	9.5	20.8
7 10	16 49.14	-18 52.7	1.341	2.252	15.0	18.7	7 10	16 42.84	-19 45.6	1.695	2.586	13.4	21.0
392432	2010 <i>OM</i> ₁₁₀	6 9.5 300°12	1°9/ 9.5 18				520266	2014 <i>EZ</i> ₁₂₁	6 9.6 258°49	4°5/ 10.6 17			
5 1	17 39.94	-25 0.2	2.176	2.978	13.8	20.2	5 1	17 41.43	-35 34.1	2.216	2.999	14.1	21.9
5 11	17 35.98	-25 51.6	2.065	2.955	11.1	20.0	5 11	17 37.12	-35 57.9	2.117	2.988	11.7	21.7
5 21	17 29.53	-26 44.7	1.976	2.933	7.8	19.8	5 21	17 30.21	-36 13.3	2.039	2.977	8.8	21.5
5 31	17 21.00	-27 36.6	1.912	2.910	4.3	19.5	5 31	17 21.24	-36 16.7	1.985	2.966	6.0	21.3
6 10	17 11.14	-28 24.4	1.876	2.888	1.9	19.3	6 10	17 11.15	-36 6.1	1.957	2.955	4.5	21.2
6 20	17 0.93	-29 5.8	1.868	2.866	4.7	19.4	6 20	17 1.01	-35 41.1	1.957	2.944	5.8	21.3
6 30	16 51.47	-29 40.0	1.887	2.844	8.5	19.6	6 30	16 51.96	-35 4.2	1.982	2.932	8.6	21.4
7 10	16 43.76	-30 7.8	1.930	2.822	12.0	19.8	7 10	16 44.92	-34 19.6	2.032	2.920	11.7	21.6
419726	2010 <i>VM</i> ₂₆	6 9.5 187°78	0°6/ 9.4 17				522765	2016 <i>NY</i> ₇₅	6 9.6 253°64	1°6/ 9.3 18			
5 1	17 42.67	-21 54.0	2.087	2.887	14.3	23.1	5 1	17 38.97	-18 19.3	2.070	2.878	14.2	22.1
5 11	17 37.76	-21 48.5	1.996	2.886	11.4	22.9	5 11	17 34.95	-18 17.1	1.972	2.867	11.3	21.9
5 21	17 30.44	-21 41.7	1.927	2.885	7.9	22.7	5 21	17 28.60	-18 16.7	1.896	2.855	7.9	21.6
5 31	17 21.27	-21 33.2	1.883	2.884	4.0	22.4	5 31	17 20.42	-18 18.2	1.844	2.844	4.2	21.4
6 10	17 11.13	-21 23.0	1.866	2.881	0.6	22.2	6 10	17 11.19	-18 21.8	1.819	2.832	1.7	21.2
6 20	17 1.02	-21 11.9	1.878	2.878	4.4	22.5	6 20	17 1.87	-18 28.0	1.822	2.820	4.8	21.4
6 30	16 51.94	-21 1.4	1.917	2.874	8.4	22.7	6 30	16 53.44	-18 37.3	1.851	2.808	8.6	21.6
7 10	16 44.74	-20 53.4	1.981	2.870	11.9	22.9	7 10	16 46.76	-18 50.4	1.904	2.796	12.2	21.8
301862	1995 <i>SO</i> ₆₂	6 9.5 189°57	1°3/ 9.3 18				355164	2006 <i>VP</i> ₁₃₆	6 9.6 144°31	0°0/ 9.6 18			
5 1	17 37.22	-19 33.3	2.417	3.219	12.5	22.0	5 1	17 38.05	-23 30.4	2.688	3.483	11.6	22.7
5 11	17 33.08	-19 23.3	2.327	3.218	9.9	21.8	5 11	17 33.51	-23 28.1	2.603	3.490	9.2	22.5
5 21	17 27.01	-19 13.4	2.259	3.218	6.9	21.6	5 21	17 27.18	-23 23.9	2.540	3.498	6.3	22.3
5 31	17 19.49	-19 3.9	2.217	3.217	3.6	21.4	5 31	17 19.53	-23 17.4	2.504	3.505	3.2	22.1
6 10	17 11.22	-18 55.4	2.203	3.216	1.3	21.2	6 10	17 11.25	-23 8.6	2.496	3.511	0.2	21.9
6 20	17 2.98	-18 48.5	2.217	3.215	4.1	21.4	6 20	17 3.04	-22 58.2	2.517	3.518	3.4	22.2
6 30	16 55.57	-18 44.2	2.258	3.214	7.4	21.6	6 30	16 55.64	-22 47.2	2.566	3.524	6.5	22.4
7 10	16 49.64	-18 43.7	2.324	3.212	10.4	21.8	7 10	16 49.64	-22 37.3	2.641	3.529	9.3	22.6
27279	Boburan	6 9.5 44°05	2°0/ 9.8 18				477975	2011 <i>ST</i> ₇₆	6 9.6 308°16	0°6/ 9.7 16			

EPHEMERIDES

6 9.6

6 9.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
382051	2011 <i>DG</i> ₂₉		6 9.6 12°97'	2.5°/ 9.2	17		214613	2006 <i>RA</i> ₃₉		6 9.6 328°68'	2.0°/ 9.8	17	
5 1	17 36.36	-18 27.8	1.389	2.229	18.2	20.6	5 1	17 33.47	-26 14.1	1.149	2.005	20.2	19.8
5 11	17 33.77	-18 9.3	1.319	2.231	14.5	20.4	5 11	17 32.78	-26 30.9	1.061	1.983	16.3	19.5
5 21	17 28.18	-17 52.1	1.267	2.234	10.1	20.1	5 21	17 28.40	-26 43.8	0.990	1.962	11.7	19.2
5 31	17 20.28	-17 37.6	1.237	2.238	5.4	19.9	5 31	17 20.80	-26 50.2	0.938	1.942	6.3	18.8
6 10	17 11.21	-17 27.1	1.230	2.243	2.5	19.7	6 10	17 11.19	-26 48.1	0.908	1.923	2.0	18.4
6 20	17 2.26	-17 22.2	1.248	2.248	6.2	19.9	6 20	17 1.22	-26 37.1	0.900	1.905	6.7	18.7
6 30	16 54.74	-17 24.0	1.290	2.254	10.8	20.2	6 30	16 52.80	-26 19.9	0.913	1.888	12.5	18.9
7 10	16 49.62	-17 33.4	1.352	2.261	15.0	20.5	7 10	16 47.45	-26 1.1	0.944	1.874	17.8	19.2
416024	2002 <i>CR</i> ₂₇₂		6 9.6 124°68'	6.7°/ 8.9	17		36216	1999 <i>TK</i> ₂₁₅		6 9.6 48°04'	0.4°/ 9.5	18	
5 1	17 40.62	-2 56.7	2.241	3.013	14.3	21.4	5 1	17 36.98	-21 37.5	2.129	2.939	13.7	18.3
5 11	17 35.60	-2 28.4	2.172	3.030	11.9	21.2	5 11	17 33.14	-21 39.0	2.052	2.949	10.8	18.1
5 21	17 28.63	-2 10.8	2.125	3.046	9.5	21.1	5 21	17 27.17	-21 39.9	1.997	2.959	7.5	17.9
5 31	17 20.25	-2 6.5	2.102	3.061	7.4	21.0	5 31	17 19.61	-21 39.9	1.967	2.969	3.7	17.7
6 10	17 11.22	-2 17.5	2.105	3.076	6.7	21.0	6 10	17 11.28	-21 39.1	1.964	2.979	0.5	17.4
6 20	17 2.35	-2 43.7	2.135	3.090	7.8	21.1	6 20	17 3.06	-21 37.9	1.988	2.990	4.1	17.7
6 30	16 54.42	-3 24.1	2.192	3.104	9.9	21.2	6 30	16 55.83	-21 37.2	2.040	3.000	7.7	18.0
7 10	16 48.07	-4 16.1	2.272	3.117	12.2	21.4	7 10	16 50.29	-21 38.4	2.115	3.011	10.9	18.2
140671	2001 <i>UR</i> ₄₉		6 9.6 189°50'	3.9°/ 8.6	17		148403	2000 <i>UU</i> ₁₀₁		6 9.6 187°98'	2.4°/ 10.2	18	
5 1	17 36.48	-11 8.9	2.613	3.404	12.0	20.5	5 1	17 39.30	-31 11.5	2.718	3.502	11.8	21.2
5 11	17 32.27	-10 40.6	2.524	3.404	9.7	20.3	5 11	17 34.69	-31 23.8	2.625	3.501	9.5	21.0
5 21	17 26.33	-10 16.5	2.457	3.402	7.2	20.1	5 21	17 28.12	-31 30.6	2.553	3.500	6.9	20.9
5 31	17 19.13	-9 58.2	2.416	3.401	4.8	20.0	5 31	17 20.07	-31 30.2	2.508	3.499	4.1	20.7
6 10	17 11.27	-9 47.2	2.403	3.399	3.9	19.9	6 10	17 11.26	-31 21.7	2.490	3.498	2.4	20.6
6 20	17 3.44	-9 44.6	2.417	3.397	5.4	20.0	6 20	17 2.48	-31 5.2	2.501	3.496	4.0	20.7
6 30	16 56.32	-9 50.9	2.459	3.394	7.9	20.2	6 30	16 54.54	-30 42.6	2.540	3.494	6.8	20.8
7 10	16 50.51	-10 5.7	2.526	3.391	10.5	20.3	7 10	16 48.12	-30 16.2	2.604	3.491	9.5	21.0
418258	2008 <i>EF</i> ₇		6 9.6 340°36'	7.0°/ 6.6	18		434346	2004 <i>RU</i> ₇₀		6 9.6 265°42'	0.1°/ 9.6	18	
5 1	17 28.99	+13 6.5	4.366	5.052	9.0	20.5	5 1	17 40.43	-23 10.6	1.981	2.789	14.7	22.0
5 11	17 25.72	+13 43.8	4.293	5.051	8.2	20.5	5 11	17 36.42	-23 14.2	1.876	2.771	11.8	21.8
5 21	17 21.50	+14 10.7	4.241	5.050	7.5	20.4	5 21	17 29.83	-23 16.4	1.791	2.751	8.2	21.5
5 31	17 16.61	+14 25.0	4.211	5.049	7.1	20.4	5 31	17 21.14	-23 16.2	1.730	2.732	4.2	21.2
6 10	17 11.39	+14 25.3	4.204	5.049	7.0	20.4	6 10	17 11.20	-23 13.0	1.697	2.712	0.2	20.9
6 20	17 6.20	+14 11.2	4.222	5.048	7.4	20.4	6 20	17 1.06	-23 7.1	1.690	2.692	4.6	21.2
6 30	17 1.40	+13 42.9	4.262	5.047	8.0	20.4	6 30	16 51.86	-22 59.9	1.710	2.671	8.9	21.4
7 10	16 57.31	+13 2.0	4.324	5.046	8.8	20.5	7 10	16 44.57	-22 53.5	1.754	2.650	12.8	21.6
355576	2008 <i>CQ</i> ₈₅		6 9.6 164°51'	1.8°/ 9.1	18		27069	1998 <i>SK</i> ₇₅		6 9.6 58°89'	3.0°/ 9.2	18	
5 1	17 37.37	-16 50.5	2.753	3.547	11.4	22.1	5 1	17 39.75	-16 27.0	1.525	2.350	17.6	18.2
5 11	17 32.89	-16 41.7	2.665	3.551	9.0	21.9	5 11	17 36.12	-16 14.0	1.454	2.358	14.0	18.0
5 21	17 26.72	-16 34.6	2.600	3.555	6.3	21.7	5 21	17 29.63	-16 4.6	1.402	2.365	9.9	17.7
5 31	17 19.30	-16 29.5	2.561	3.558	3.5	21.5	5 31	17 20.97	-15 59.9	1.373	2.373	5.5	17.5
6 10	17 11.27	-16 27.1	2.551	3.561	1.9	21.4	6 10	17 11.21	-16 0.8	1.369	2.380	3.0	17.4
6 20	17 3.27	-16 27.8	2.570	3.564	4.0	21.6	6 20	17 1.60	-16 8.1	1.391	2.388	6.1	17.6
6 30	16 56.00	-16 32.1	2.616	3.567	6.8	21.8	6 30	16 53.36	-16 22.0	1.437	2.396	10.4	17.8
7 10	16 50.02	-16 40.5	2.689	3.568	9.4	21.9	7 10	16 47.40	-16 42.8	1.505	2.404	14.3	18.1
507208	2010 <i>UR</i> ₄₇		6 9.6 302°57'	1.1°/ 9.7	17		19386	Axelcronstedt		6 9.6 286°10'	5.8°/ 8.6	18	
5 1	17 38.60	-25 41.0	1.381	2.216	18.6	21.4	5 1	17 38.61	-11 39.2	1.497	2.321	17.9	17.4
5 11	17 36.22	-25 42.0	1.285	2.195	15.0	21.1	5 11	17 35.60	-11 1.4	1.402	2.302	14.7	17.2
5 21	17 30.40	-25 38.4	1.207	2.174	10.6	20.8	5 21	17 29.62	-10 28.9	1.326	2.282	11.0	16.9
5 31	17 21.67	-25 28.4	1.151	2.153	5.5	20.4	5 31	17 21.16	-10 5.5	1.272	2.262	7.4	16.6
6 10	17 11.14	-25 11.1	1.118	2.132	1.1	20.0	6 10	17 11.21	-9 54.7	1.242	2.243	5.9	16.5
6 20	17 0.32	-24 47.0	1.109	2.112	6.0	20.3	6 20	17 0.99	-9 58.6	1.236	2.223	8.4	16.6
6 30	16 50.85	-24 19.6	1.123	2.092	11.5	20.6	6 30	16 51.89	-10 18.4	1.254	2.203	12.5	16.8
7 10	16 44.11	-23 53.2	1.158	2.073	16.4	20.8	7 10	16 45.05	-10 53.0	1.292	2.183	16.7	16.9
34369	2000 <i>RA</i> ₄₂		6 9.6 258°09'	0.7°/ 9.8	18		249346	2008 <i>WV</i> ₆₁		6 9.6 315°89'	1.9°/ 9.1	18	
5 1	17 38.04	-26 34.9	2.341	3.141	13.0	18.0	5 1	17 35.36	-21 4.0	1.468	2.305	17.5	20.0
5 11	17 33.94	-26 18.8	2.243	3.134	10.3	17.8	5 11	17 33.45	-20 34.5	1.356	2.268	14.2	19.6
5 21	17 27.72	-25 57.6	2.168	3.126	7.2	17.6	5 21	17 28.44	-20 1.0	1.263	2.231	10.1	19.3
5 31	17 19.90	-25 30.8	2.118	3.118	3.7	17.3	5 31	17 20.72	-19 24.2	1.192	2.195	5.3	18.9
6 10	17 11.25	-24 59.0	2.096	3.111	0.7	17.1	6 10	17 11.22	-18 46.0	1.145	2.158	2.0	18.6
6 20	17 2.62	-24 23.4	2.101	3.103	3.9	17.3	6 20	17 1.23	-18 9.2	1.121	2.123	6.5	18.8
6 30	16 54.91	-23 46.6	2.135	3.095	7.5	17.5	6 30	16 52.27	-17 37.7	1.121	2.087	11.9	19.0
7 10	16 48.83	-23 11.2	2.193	3.087	10.7	17.7	7 10	16 45.67	-17 15.1	1.142	2.053	16.9	19.1
327715	2006 <i>SL</i> ₁₃₅		6 9.6 231°84'	0.8°/ 9.4	17		41548	2000 <i>RG</i> ₄₆		6 9.6 204°80'	0.5°/ 9.4	18	
5 1	17 41.07	-23 9.3	1.686	2.503	16.5	21.0	5 1	17 40.93	-22 32.6	2.505	3.298	12.4	19.8
5 11	17 37.12	-22 42.5	1.598	2.499	13.1	20.8	5 11	17 36.00	-22 18.0	2.405	3.292	9.9	19.6
5 21	17 30.33	-22 11.5	1.531	2.494	9.1	20.5	5 21	17 29.05	-22 1.1	2.328	3.285	6.8	19.4
5 31	17 21.33	-21 36.5	1.487	2.489	4.6	20.2	5 31	17 20.56	-21 41.8	2.278	3.278	3.4	19.2
6 10	17 11.18	-20 58.8	1.469	2.484	0.9	20.0	6 10	17 11.25	-21 20.5	2.255	3.270	0.5	18.9
6 20	17 1.07	-20 20.8	1.478	2.479	5.2	20.3	6 20	17 1.95	-20 58.4	2.262	3.262	3.9	19.2
6 30	16 52.24	-19 45.7	1.512	2.473	9.8	20.5	6 30	16 53.49	-20 37.1	2.297	3.252	7.3	19.4
7 10	16 45.65	-19 16.8	1.569	2.468	13.9	20.7	7 10	16 46.56	-20 18.5	2.358	3.242	10.4	19.6
81616	2000 <i>HW</i> ₇₀		6 9.6 217°61'	4.6°/ 7.9	18		429525	2011 <i>BN</i> ₇₈		6 9.6 2			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
61427	2000 QR ₁₆		6 9.6 241°03	1.7/ 9.3	18		465286	2007 TO ₂₄₈		6 9.6 236°88	4.3/ 8.7	17	
5 1	17 40.30	-18 36.1	2.115	2.919	14.1	20.3	5 1	17 40.99	-14 35.3	1.715	2.528	16.4	22.2
5 11	17 35.99	-18 27.5	2.013	2.905	11.2	20.0	5 11	17 36.98	-13 55.0	1.623	2.518	13.3	21.9
5 21	17 29.34	-18 19.6	1.932	2.891	7.9	19.8	5 21	17 30.26	-13 16.8	1.551	2.508	9.6	21.7
5 31	17 20.84	-18 13.0	1.877	2.876	4.2	19.5	5 31	17 21.37	-12 43.2	1.503	2.497	6.0	21.4
6 10	17 11.27	-18 8.2	1.848	2.861	1.7	19.3	6 10	17 11.28	-12 16.9	1.480	2.485	4.4	21.3
6 20	17 1.57	-18 5.7	1.847	2.845	4.8	19.5	6 20	17 1.10	-12 0.3	1.484	2.473	7.0	21.4
6 30	16 52.76	-18 6.6	1.874	2.829	8.7	19.7	6 30	16 52.04	-11 55.2	1.512	2.460	10.9	21.6
7 10	16 45.67	-18 12.1	1.924	2.812	12.2	19.9	7 10	16 45.06	-12 2.0	1.563	2.447	14.7	21.8
342670	2008 VQ ₁₅		6 9.6 274°14	1.3/ 9.3	17		90728	1992 EW ₈		6 9.6 121°48	4.6/ 10.6	18	
5 1	17 38.46	-20 46.6	1.891	2.706	15.0	21.8	5 1	17 45.36	-36 9.7	2.294	3.066	14.0	19.7
5 11	17 34.77	-20 29.7	1.798	2.697	12.0	21.6	5 11	17 39.89	-36 43.6	2.219	3.082	11.5	19.6
5 21	17 28.60	-20 11.4	1.727	2.689	8.3	21.3	5 21	17 31.90	-37 8.8	2.165	3.098	8.7	19.4
5 31	17 20.47	-19 52.3	1.679	2.680	4.3	21.0	5 31	17 22.04	-37 21.7	2.136	3.113	6.0	19.3
6 10	17 11.29	-19 33.2	1.658	2.672	1.3	20.8	6 10	17 11.26	-37 20.1	2.134	3.127	4.6	19.2
6 20	17 2.07	-19 15.5	1.663	2.663	4.9	21.0	6 20	17 0.67	-37 4.0	2.159	3.141	5.7	19.3
6 30	16 53.90	-19 1.1	1.694	2.654	9.1	21.3	6 30	16 51.31	-36 35.9	2.211	3.155	8.2	19.5
7 10	16 47.65	-18 51.8	1.749	2.646	12.8	21.5	7 10	16 44.01	-36 0.1	2.289	3.168	10.9	19.7
320530	2007 YX ₅₈		6 9.6 136°36	3.3/ 9.1	17		309720	2008 GP ₁₃₆		6 9.6 144°87	0.9/ 9.4	18	
5 1	17 41.64	-15 20.3	1.724	2.536	16.4	21.3	5 1	17 37.26	-19 40.4	2.649	3.447	11.7	21.3
5 11	17 37.26	-15 3.5	1.648	2.544	13.1	21.1	5 11	17 32.95	-19 43.3	2.563	3.452	9.2	21.1
5 21	17 30.26	-14 50.4	1.592	2.550	9.3	20.9	5 21	17 26.86	-19 46.8	2.499	3.457	6.4	21.0
5 31	17 21.26	-14 42.3	1.560	2.557	5.4	20.6	5 31	17 19.45	-19 50.8	2.461	3.461	3.3	20.8
6 10	17 11.26	-14 40.3	1.554	2.563	3.3	20.5	6 10	17 11.38	-19 55.3	2.452	3.466	0.9	20.6
6 20	17 1.36	-14 45.2	1.575	2.569	6.0	20.7	6 20	17 3.35	-20 0.5	2.471	3.470	3.6	20.8
6 30	16 52.70	-14 57.6	1.621	2.574	9.9	20.9	6 30	16 56.07	-20 6.9	2.518	3.474	6.7	21.0
7 10	16 46.13	-15 17.3	1.690	2.579	13.5	21.2	7 10	16 50.16	-20 15.2	2.591	3.478	9.5	21.2
344082	1998 SF ₂₁		6 9.6 282°01	2.3/ 9.1	16		360934	2005 TN ₁₅₀		6 9.6 159°81	3.7/ 8.5	16	
5 1	17 37.53	-18 10.5	1.949	2.763	14.7	21.8	5 1	17 35.71	-10 49.9	2.924	3.711	11.0	22.6
5 11	17 33.95	-17 48.8	1.854	2.752	11.7	21.6	5 11	17 31.44	-10 18.4	2.839	3.716	8.9	22.4
5 21	17 27.99	-17 27.5	1.780	2.740	8.3	21.3	5 21	17 25.67	-9 50.5	2.778	3.721	6.6	22.3
5 31	17 20.16	-17 7.6	1.730	2.729	4.5	21.1	5 31	17 18.80	-9 28.1	2.743	3.725	4.5	22.1
6 10	17 11.30	-16 50.5	1.706	2.718	2.3	20.9	6 10	17 11.41	-9 12.5	2.736	3.729	3.7	22.1
6 20	17 2.39	-16 37.5	1.709	2.706	5.2	21.1	6 20	17 4.08	-9 4.8	2.757	3.733	5.0	22.2
6 30	16 54.43	-16 30.3	1.738	2.695	9.1	21.3	6 30	16 57.40	-9 5.4	2.806	3.737	7.2	22.3
7 10	16 48.27	-16 29.9	1.791	2.683	12.7	21.5	7 10	16 51.88	-9 14.2	2.880	3.740	9.5	22.5
436181	2009 WL ₂₉		6 9.6 219°43	0.1/ 9.6	17		488480	1999 TC ₄₆		6 9.6 143°94	13.2/ 4.9	18	
5 1	17 41.41	-23 11.5	1.996	2.802	14.7	22.4	5 1	17 44.12	-3 15.6	1.270	2.081	21.2	21.2
5 11	17 37.03	-23 16.2	1.902	2.796	11.7	22.1	5 11	17 39.83	-0 33.3	1.212	2.088	18.2	21.1
5 21	17 30.13	-23 19.4	1.829	2.789	8.2	21.9	5 21	17 32.32	+ 2 0.1	1.173	2.095	15.3	20.9
5 31	17 21.25	-23 20.1	1.781	2.782	4.1	21.6	5 31	17 22.36	+ 4 12.3	1.155	2.101	13.5	20.8
6 10	17 11.26	-23 17.9	1.760	2.775	0.2	21.3	6 10	17 11.25	+ 5 52.4	1.159	2.106	13.5	20.8
6 20	17 1.22	-23 12.9	1.766	2.767	4.5	21.6	6 20	17 0.41	+ 6 53.5	1.186	2.111	15.3	20.9
6 30	16 52.22	-23 6.7	1.799	2.759	8.6	21.9	6 30	16 51.21	+ 7 14.6	1.232	2.116	17.9	21.1
7 10	16 45.15	-23 1.1	1.856	2.750	12.3	22.1	7 10	16 44.66	+ 7 0.1	1.296	2.119	20.7	21.3
208657	2002 FE ₁₆		6 9.6 352°74	2.1/ 9.6	17		111657	2002 AO ₁₈₇		6 9.6 43°92	10.4/ 12.5	17	
5 1	17 38.46	-16 20.6	1.220	2.064	20.0	19.5	5 1	17 48.18	-52 10.3	2.216	2.931	16.0	19.2
5 11	17 36.07	-16 45.2	1.146	2.060	16.0	19.2	5 11	17 43.42	-53 20.5	2.144	2.937	14.3	19.1
5 21	17 30.24	-17 18.2	1.089	2.057	11.3	18.9	5 21	17 35.08	-54 14.4	2.090	2.944	12.6	19.0
5 31	17 21.56	-17 59.3	1.052	2.055	6.0	18.6	5 31	17 23.88	-54 45.1	2.057	2.950	11.1	18.9
6 10	17 11.24	-18 46.9	1.039	2.053	2.1	18.4	6 10	17 11.19	-54 47.8	2.045	2.957	10.4	18.9
6 20	17 0.83	-19 38.5	1.050	2.052	6.5	18.7	6 20	16 58.66	-54 21.3	2.057	2.964	10.7	18.9
6 30	16 51.95	-20 32.2	1.083	2.052	11.8	19.0	6 30	16 47.93	-53 29.1	2.092	2.971	11.8	19.0
7 10	16 45.87	-21 26.5	1.136	2.053	16.6	19.2	7 10	16 40.16	-52 17.9	2.149	2.978	13.3	19.1
114618	2003 EO		6 9.6 358°20	9.1/ 8.9	18		261196	2005 TV ₁₅₉		6 9.6 190°60	1.7/ 9.0	18	
5 1	17 34.53	+ 0 7.8	1.781	2.575	16.7	18.6	5 1	17 36.63	-19 22.9	2.508	3.310	12.2	21.2
5 11	17 31.55	+ 0 30.6	1.707	2.572	14.3	18.4	5 11	17 32.54	-18 53.4	2.418	3.309	9.6	21.0
5 21	17 26.28	+ 0 54.4	1.651	2.571	11.8	18.3	5 21	17 26.63	-18 23.0	2.351	3.309	6.7	20.9
5 31	17 19.27	+ 0 58.9	1.618	2.570	9.8	18.1	5 31	17 19.36	-17 52.5	2.309	3.308	3.6	20.7
6 10	17 11.35	+ 0 40.9	1.607	2.569	9.1	18.1	6 10	17 11.41	-17 23.4	2.295	3.307	1.7	20.5
6 20	17 3.47	+ 0 0.1	1.620	2.570	10.2	18.2	6 20	17 3.52	-16 57.2	2.310	3.306	4.2	20.7
6 30	16 56.59	-1 1.7	1.657	2.571	12.4	18.3	6 30	16 56.44	-16 35.5	2.352	3.305	7.3	20.9
7 10	16 51.48	-2 20.4	1.715	2.572	14.9	18.5	7 10	16 50.77	-16 19.5	2.419	3.303	10.2	21.1
8945	Cavaradossi		6 9.6 114°59	4.9/ 11.0	18		65322	2002 KS		6 9.6 282°85	1.6/ 10.0	18	
5 1	17 41.99	-38 21.7	2.442	3.211	13.4	18.3	5 1	17 37.51	-28 34.3	2.405	3.202	12.7	19.4
5 11	17 37.18	-38 44.9	2.360	3.219	11.1	18.2	5 11	17 33.56	-28 32.5	2.309	3.196	10.2	19.2
5 21	17 30.01	-38 58.1	2.299	3.227	8.5	18.0	5 21	17 27.51	-28 25.4	2.235	3.190	7.2	19.0
5 31	17 21.07	-38 58.4	2.263	3.234	6.2	17.9	5 31	17 19.86	-28 12.0	2.186	3.183	3.9	18.8
6 10	17 11.28	-38 44.0	2.253	3.242	4.9	17.8	6 10	17 11.39	-27 52.0	2.164	3.177	1.6	18.6
6 20	17 1.64	-38 15.2	2.270	3.249	5.8	17.9	6 20	17 2.93	-27 26.2	2.171	3.171	4.0	18.8
6 30	16 53.14	-37 34.6	2.314	3.256	8.0	18.0	6 30	16 55.37	-26 56.5	2.205	3.165	7.3	18.9
7 10	16 46.54	-36 46.5	2.383	3.263	10.5	18.2	7 10	16 49.42	-26 25.9	2.263	3.158	10.3	19.1
28203	1998 XL ₄₈		6 9.6 236°86	1.3/ 9.8	17		192844	1999 VD ₁₅₂		6 9.6 167°02	0.1/ 9.6	17	
5 1	17 46.39	-25 52.1	1.943	2.73									

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
478745	2012 <i>UH</i> ₈₅		6 9.6 323°44	4.8/ 9.9	16		19490	1998 <i>HC</i> ₁₅₀		6 9.6 231°57	5.1/ 9.9	18	
5 1	17 35.87	-31 0.5	1.388	2.222	18.5	21.1	5 1	17 45.52	-34 34.3	2.211	2.989	14.3	18.0
5 11	17 34.42	-31 43.0	1.287	2.193	15.3	20.8	5 11	17 40.59	-35 35.1	2.111	2.978	11.8	17.8
5 21	17 29.46	-32 20.8	1.205	2.165	11.4	20.5	5 21	17 32.86	-36 30.9	2.032	2.967	9.0	17.6
5 31	17 21.40	-32 49.0	1.143	2.138	7.2	20.2	5 31	17 22.79	-37 16.9	1.978	2.956	6.4	17.4
6 10	17 11.31	-33 3.1	1.104	2.111	4.8	19.9	6 10	17 11.31	-37 48.8	1.951	2.944	5.1	17.3
6 20	17 0.72	-33 0.5	1.088	2.086	7.4	20.0	6 20	16 59.57	-38 4.5	1.951	2.931	6.4	17.4
6 30	16 51.43	-32 42.8	1.095	2.061	12.0	20.2	6 30	16 48.83	-38 4.7	1.978	2.919	9.2	17.5
7 10	16 44.99	-32 15.0	1.121	2.038	16.7	20.4	7 10	16 40.18	-37 53.0	2.029	2.905	12.2	17.7
259723	2003 <i>YG</i> ₈₇		6 9.6 201°32	0.8/ 9.5	17		342151	2008 <i>SO</i> ₁₄₂		6 9.6 288°40	2.7/ 9.0	16	
5 1	17 43.12	-20 34.0	2.014	2.816	14.7	21.5	5 1	17 37.84	-17 48.2	1.811	2.629	15.5	21.4
5 11	17 38.31	-20 38.1	1.921	2.812	11.7	21.3	5 11	17 34.50	-17 22.0	1.711	2.611	12.4	21.2
5 21	17 31.00	-20 42.5	1.849	2.807	8.2	21.0	5 21	17 28.58	-16 56.0	1.631	2.593	8.8	20.9
5 31	17 21.71	-20 46.9	1.802	2.802	4.2	20.8	5 31	17 20.60	-16 31.6	1.576	2.575	4.9	20.7
6 10	17 11.33	-20 50.7	1.782	2.796	0.8	20.5	6 10	17 11.41	-16 10.6	1.546	2.556	2.7	20.5
6 20	17 0.89	-20 54.1	1.790	2.790	4.6	20.8	6 20	17 2.07	-15 54.6	1.542	2.538	5.8	20.6
6 30	16 51.48	-20 58.0	1.825	2.783	8.7	21.0	6 30	16 53.72	-15 45.6	1.564	2.520	9.9	20.8
7 10	16 43.99	-21 3.9	1.885	2.775	12.3	21.2	7 10	16 47.30	-15 44.8	1.608	2.502	13.8	21.0
352091	2006 <i>XC</i> ₃₁		6 9.6 63°72	1.3/10.1	18		358452	2007 <i>EZ</i> ₈₂		6 9.6 230°96	7.8/ 7.2	18	
5 1	17 39.65	-29 57.2	2.271	3.066	13.5	20.1	5 1	17 35.59	+ 4 7.0	2.956	3.697	11.9	21.7
5 11	17 35.12	-29 25.1	2.191	3.076	10.7	19.9	5 11	17 31.43	+ 4 56.0	2.864	3.685	10.4	21.6
5 21	17 28.45	-28 44.9	2.132	3.086	7.5	19.7	5 21	17 25.75	+ 5 34.7	2.793	3.672	9.0	21.5
5 31	17 20.25	-27 56.3	2.099	3.097	4.0	19.5	5 31	17 18.93	+ 5 59.6	2.747	3.659	8.0	21.4
6 10	17 11.40	-27 0.5	2.093	3.107	1.3	19.3	6 10	17 11.49	+ 6 8.4	2.725	3.646	7.8	21.3
6 20	17 2.78	-26 0.1	2.116	3.117	3.9	19.6	6 20	17 4.02	+ 5 59.6	2.729	3.632	8.5	21.4
6 30	16 55.27	-24 58.5	2.167	3.127	7.3	19.8	6 30	16 57.11	+ 5 33.5	2.758	3.617	9.9	21.4
7 10	16 49.52	-23 59.6	2.243	3.138	10.4	20.0	7 10	16 51.31	+ 4 51.8	2.810	3.603	11.5	21.5
479223	2013 <i>CW</i> ₁₇₈		6 9.6 185°59	3.4/10.5	18		162412	2000 <i>DF</i> ₁₁₃		6 9.6 267°51	5.0/ 8.5	18	
5 1	17 40.61	-34 14.4	2.702	3.477	12.1	22.2	5 1	17 38.14	- 9 48.2	2.213	3.008	13.8	20.3
5 11	17 35.85	-34 34.7	2.609	3.477	9.8	22.0	5 11	17 34.17	- 9 16.5	2.106	2.986	11.3	20.1
5 21	17 29.02	-34 48.1	2.538	3.477	7.3	21.9	5 21	17 28.06	- 8 49.7	2.020	2.964	8.6	19.9
5 31	17 20.61	-34 52.4	2.493	3.476	4.8	21.7	5 31	17 20.25	- 8 30.7	1.958	2.941	6.0	19.7
6 10	17 11.38	-34 46.1	2.475	3.475	3.4	21.6	6 10	17 11.43	- 8 21.6	1.924	2.917	5.1	19.6
6 20	17 2.19	-34 29.4	2.485	3.473	4.6	21.7	6 20	17 2.44	- 8 23.9	1.916	2.893	6.8	19.6
6 30	16 53.90	-34 3.8	2.523	3.471	7.1	21.8	6 30	16 54.17	- 8 38.4	1.934	2.869	9.7	19.8
7 10	16 47.20	-33 32.5	2.586	3.469	9.7	22.0	7 10	16 47.42	- 9 4.4	1.976	2.844	12.8	19.9
105721	2000 <i>ST</i> ₇₉		6 9.6 184°83	3.0/10.0	18		130226	2000 <i>BT</i> ₂₀		6 9.6 228°09	4.6/ 8.8	17	
5 1	17 45.71	-29 28.3	1.792	2.592	16.3	20.2	5 1	17 38.93	- 8 43.3	2.466	3.251	12.8	21.1
5 11	17 40.92	-29 58.1	1.705	2.592	13.2	20.0	5 11	17 34.45	- 8 24.9	2.366	3.240	10.5	20.9
5 21	17 33.10	-30 23.0	1.639	2.592	9.5	19.8	5 21	17 28.05	- 8 12.8	2.288	3.228	7.9	20.7
5 31	17 22.86	-30 39.5	1.597	2.591	5.5	19.5	5 31	17 20.16	- 8 8.8	2.236	3.215	5.6	20.5
6 10	17 11.28	-30 44.8	1.580	2.590	3.0	19.4	6 10	17 11.44	- 8 14.5	2.210	3.203	4.6	20.5
6 20	16 59.70	-30 38.5	1.591	2.588	5.5	19.5	6 20	17 2.64	- 8 30.5	2.213	3.189	6.1	20.5
6 30	16 49.46	-30 22.6	1.628	2.586	9.5	19.7	6 30	16 54.55	- 8 56.7	2.243	3.175	8.7	20.7
7 10	16 41.63	-30 1.2	1.688	2.583	13.3	20.0	7 10	16 47.85	- 9 32.1	2.297	3.160	11.4	20.8
177392	2004 <i>BD</i> ₈₄		6 9.6 117°34	1.7/ 9.3	17		433146	2012 <i>TA</i> ₂₃₆		6 9.6 325°64	3.4/ 9.1	17	
5 1	17 42.44	-18 55.3	1.757	2.568	16.2	21.0	5 1	17 37.69	-14 37.9	1.867	2.681	15.2	20.5
5 11	17 37.87	-18 48.0	1.684	2.580	12.8	20.8	5 11	17 34.08	-14 22.0	1.782	2.679	12.2	20.3
5 21	17 30.67	-18 42.0	1.631	2.592	8.9	20.6	5 21	17 28.09	-14 10.0	1.719	2.676	8.8	20.1
5 31	17 21.49	-18 37.4	1.602	2.603	4.6	20.4	5 31	17 20.25	-14 3.5	1.679	2.674	5.2	19.9
6 10	17 11.35	-18 34.5	1.600	2.614	1.7	20.2	6 10	17 11.44	-14 3.6	1.665	2.672	3.4	19.8
6 20	17 1.38	-18 34.1	1.625	2.624	5.2	20.5	6 20	17 2.63	-14 11.1	1.677	2.670	5.8	19.9
6 30	16 52.69	-18 37.1	1.676	2.634	9.3	20.7	6 30	16 54.84	-14 26.4	1.715	2.669	9.5	20.1
7 10	16 46.11	-18 44.6	1.750	2.644	12.9	21.0	7 10	16 48.90	-14 49.2	1.776	2.667	12.9	20.3
260647	2005 <i>GK</i> ₁₃₉		6 9.6 74°67	0.6/ 9.5	17		199064	2005 <i>XP</i> ₁₆		6 9.6 130°67	0.9/ 9.5	17	
5 1	17 42.04	-20 51.7	1.490	2.315	17.9	20.4	5 1	17 43.81	-20 11.8	1.456	2.279	18.4	21.0
5 11	17 38.12	-21 2.1	1.421	2.325	14.2	20.2	5 11	17 39.69	-20 20.9	1.381	2.284	14.6	20.7
5 21	17 31.16	-21 13.5	1.370	2.335	9.8	20.0	5 21	17 32.36	-20 31.8	1.326	2.290	10.2	20.5
5 31	17 21.84	-21 24.9	1.343	2.345	5.0	19.7	5 31	17 22.52	-20 43.4	1.293	2.295	5.2	20.2
6 10	17 11.34	-21 35.5	1.340	2.355	0.6	19.4	6 10	17 11.34	-20 55.1	1.285	2.300	0.9	19.9
6 20	17 1.00	-21 45.1	1.363	2.365	5.4	19.8	6 20	17 0.25	-21 6.4	1.303	2.305	5.6	20.2
6 30	16 52.15	-21 54.7	1.411	2.376	10.1	20.1	6 30	16 50.67	-21 18.3	1.346	2.309	10.5	20.5
7 10	16 45.77	-22 5.8	1.481	2.386	14.2	20.3	7 10	16 43.67	-21 32.1	1.410	2.313	14.8	20.8
308596	2005 <i>VY</i> ₅₄		6 9.6 331°68	1.4/ 9.2	17		479765	2014 <i>EP</i> ₂₆		6 9.6 93°29	1.3/ 9.3	17	
5 1	17 35.80	-21 30.1	2.005	2.822	14.3	20.7	5 1	17 37.83	-19 46.1	2.143	2.951	13.7	21.5
5 11	17 32.49	-20 56.8	1.914	2.814	11.3	20.5	5 11	17 33.86	-19 38.3	2.059	2.954	10.9	21.3
5 21	17 26.93	-20 20.7	1.844	2.807	7.9	20.2	5 21	17 27.75	-19 30.7	1.997	2.957	7.5	21.1
5 31	17 19.63	-19 42.5	1.799	2.801	4.1	20.0	5 31	17 20.01	-19 23.6	1.959	2.960	3.9	20.9
6 10	17 11.45	-19 4.2	1.781	2.794	1.4	19.8	6 10	17 11.46	-19 17.4	1.949	2.963	1.3	20.7
6 20	17 3.29	-18 27.8	1.789	2.788	4.7	20.0	6 20	17 2.96	-19 12.8	1.967	2.966	4.4	20.9
6 30	16 56.12	-17 56.0	1.823	2.783	8.6	20.2	6 30	16 55.41	-19 10.9	2.011	2.969	8.0	21.1
7 10	16 50.70	-17 30.9	1.881	2.777	12.1	20.4	7 10	16 49.54	-19 12.7	2.079	2.972	11.2	21.4
414142	2007												

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
237109	2008 TX ₁₂₀		6 9.6 154°05	1.7/ 9.3	18		121812	2000 AP ₂₂₂		6 9.6 292°29	1.9/ 9.6	18	
5 1	17 40.14	-17 58.3	2.228	3.029	13.5	20.8	5 1	17 39.05	-14 26.3	2.417	3.212	12.8	19.7
5 11	17 35.56	-17 55.3	2.144	3.035	10.7	20.6	5 11	17 34.65	-14 54.4	2.322	3.208	10.2	19.5
5 21	17 28.85	-17 54.1	2.082	3.040	7.5	20.4	5 21	17 28.25	-15 28.3	2.250	3.204	7.2	19.3
5 31	17 20.55	-17 54.6	2.046	3.045	4.0	20.2	5 31	17 20.30	-16 7.6	2.203	3.200	4.0	19.1
6 10	17 11.44	-17 57.3	2.037	3.049	1.7	20.1	6 10	17 11.48	-16 51.6	2.185	3.196	2.0	19.0
6 20	17 2.39	-18 2.5	2.056	3.054	4.4	20.3	6 20	17 2.57	-17 38.9	2.196	3.192	4.3	19.1
6 30	16 54.27	-18 10.6	2.103	3.057	7.9	20.5	6 30	16 54.41	-18 28.3	2.235	3.189	7.5	19.3
7 10	16 47.79	-18 22.4	2.174	3.061	11.1	20.7	7 10	16 47.70	-19 19.1	2.299	3.185	10.6	19.5
380037	2013 RW ₂₅		6 9.6 295°09	5.1/ 8.6	18		385473	2003 UJ ₂₃₀		6 9.6 254°64	3.8/ 8.7	18	
5 1	17 37.67	-13 18.5	1.536	2.362	17.4	20.4	5 1	17 37.91	-13 59.0	2.122	2.926	14.0	21.4
5 11	17 34.82	-12 39.7	1.440	2.342	14.2	20.1	5 11	17 34.02	-13 24.0	2.024	2.914	11.3	21.2
5 21	17 29.09	-12 4.3	1.364	2.322	10.5	19.9	5 21	17 27.95	-12 51.4	1.948	2.901	8.2	20.9
5 31	17 20.97	-11 35.7	1.310	2.303	6.8	19.6	5 31	17 20.19	-12 23.1	1.897	2.889	5.2	20.7
6 10	17 11.41	-11 17.1	1.279	2.283	5.2	19.5	6 10	17 11.48	-12 1.3	1.872	2.875	3.9	20.6
6 20	17 1.63	-11 11.1	1.274	2.263	7.8	19.6	6 20	17 2.72	-11 47.7	1.875	2.862	6.0	20.7
6 30	16 52.94	-11 19.1	1.292	2.244	12.0	19.7	6 30	16 54.80	-11 43.7	1.904	2.848	9.2	20.9
7 10	16 46.45	-11 41.0	1.331	2.225	16.2	19.9	7 10	16 48.51	-11 49.6	1.956	2.835	12.5	21.1
78367	2002 PS ₁₁₇		6 9.6 334°27	0.3/ 9.5	18		367759	2010 VO ₂₀₉		6 9.6 205°20	0.1/ 9.6	17	
5 1	17 36.96	-24 49.8	1.674	2.499	16.3	18.6	5 1	17 42.52	-24 28.1	1.835	2.643	15.7	21.6
5 11	17 33.97	-24 17.4	1.586	2.490	13.0	18.3	5 11	17 38.09	-24 7.9	1.745	2.640	12.5	21.4
5 21	17 28.26	-23 38.8	1.517	2.482	9.0	18.1	5 21	17 30.96	-23 43.1	1.676	2.637	8.7	21.1
5 31	17 20.41	-22 54.4	1.473	2.475	4.5	17.8	5 31	17 21.74	-23 13.3	1.631	2.633	4.4	20.9
6 10	17 11.45	-22 5.7	1.453	2.468	0.4	17.5	6 10	17 11.42	-22 39.2	1.613	2.628	0.2	20.5
6 20	17 2.53	-21 15.7	1.459	2.462	5.1	17.8	6 20	17 1.15	-22 2.8	1.622	2.623	4.8	20.9
6 30	16 54.85	-20 28.3	1.491	2.456	9.6	18.0	6 30	16 52.10	-21 27.1	1.657	2.618	9.2	21.1
7 10	16 49.32	-19 47.3	1.545	2.451	13.6	18.3	7 10	16 45.17	-20 55.5	1.716	2.612	13.0	21.3
315193	2007 PZ ₃₆		6 9.6 281°87	4.6/ 8.8	17		139470	2001 OK ₉₁		6 9.6 265°03	4.7/ 7.8	17	
5 1	17 39.85	-14 47.3	1.472	2.298	18.0	21.3	5 1	17 37.19	-13 9.1	2.210	3.012	13.6	19.8
5 11	17 36.81	-14 12.0	1.372	2.275	14.7	21.0	5 11	17 33.30	-12 1.9	2.113	3.000	11.0	19.6
5 21	17 30.65	-13 39.0	1.291	2.252	10.7	20.7	5 21	17 27.36	-10 55.1	2.038	2.988	8.2	19.4
5 31	17 21.84	-13 11.1	1.232	2.228	6.6	20.4	5 31	17 19.85	-9 52.1	1.989	2.975	5.6	19.2
6 10	17 11.38	-12 51.4	1.197	2.204	4.7	20.2	6 10	17 11.51	-8 56.4	1.967	2.962	4.8	19.1
6 20	17 0.57	-12 42.4	1.187	2.180	7.7	20.3	6 20	17 3.15	-8 11.0	1.972	2.949	6.7	19.2
6 30	16 50.87	-12 46.1	1.200	2.155	12.4	20.5	6 30	16 55.63	-7 38.5	2.004	2.936	9.6	19.4
7 10	16 43.54	-13 3.1	1.234	2.131	17.0	20.7	7 10	16 49.65	-7 19.7	2.059	2.923	12.5	19.5
328214	2008 EC ₁₁₆		6 9.6 29°61	4.9/ 8.7	17		255981	2006 TJ ₇₅		6 9.6 285°17	0.1/ 9.6	18	
5 1	17 38.21	-14 3.2	1.471	2.300	17.9	21.4	5 1	17 34.45	-21 50.0	3.187	3.981	10.0	20.9
5 11	17 35.02	-13 20.3	1.400	2.303	14.4	21.2	5 11	17 30.64	-22 1.0	3.076	3.963	7.9	20.7
5 21	17 28.97	-12 41.2	1.347	2.307	10.5	20.9	5 21	17 25.29	-22 11.9	2.988	3.946	5.5	20.5
5 31	17 20.76	-12 9.1	1.317	2.311	6.6	20.7	5 31	17 18.76	-22 22.3	2.928	3.928	2.8	20.3
6 10	17 11.44	-11 47.1	1.311	2.315	4.9	20.6	6 10	17 11.56	-22 31.9	2.895	3.911	0.2	20.0
6 20	17 2.26	-11 37.4	1.329	2.320	7.5	20.8	6 20	17 4.27	-22 40.6	2.892	3.893	3.0	20.3
6 30	16 54.42	-11 40.9	1.372	2.324	11.4	21.0	6 30	16 57.50	-22 48.9	2.918	3.875	5.8	20.4
7 10	16 48.86	-11 57.2	1.435	2.330	15.2	21.3	7 10	16 51.81	-22 57.4	2.969	3.857	8.4	20.6
128041	2003 KG ₃₆		6 9.6 58°63	2.5/ 9.2	18		437320	2013 PJ ₄₂		6 9.6 228°55	8.6/ 11.4	17	
5 1	17 39.53	-17 41.3	1.603	2.426	16.9	19.4	5 1	17 48.37	-43 38.1	1.860	2.622	17.2	21.2
5 11	17 35.76	-17 23.4	1.536	2.439	13.4	19.2	5 11	17 43.72	-44 31.4	1.772	2.616	14.8	21.1
5 21	17 29.31	-17 7.6	1.489	2.452	9.4	19.0	5 21	17 35.45	-45 11.3	1.702	2.610	12.2	20.9
5 31	17 20.85	-16 54.7	1.466	2.465	5.1	18.8	5 31	17 24.22	-45 30.7	1.653	2.603	9.8	20.7
6 10	17 11.44	-16 46.1	1.467	2.479	2.6	18.7	6 10	17 11.33	-45 24.1	1.629	2.596	8.6	20.6
6 20	17 2.26	-16 42.7	1.495	2.493	5.7	18.9	6 20	16 58.43	-44 50.4	1.629	2.589	9.3	20.6
6 30	16 54.41	-16 45.6	1.548	2.507	9.8	19.2	6 30	16 47.21	-43 53.0	1.654	2.581	11.5	20.8
7 10	16 48.74	-16 55.3	1.623	2.521	13.5	19.4	7 10	16 38.94	-42 39.8	1.701	2.574	14.3	20.9
153166	2000 TS ₆		6 9.6 8°08	10.7/10.6	17		5149	Leibniz		6 9.6 133°37	0.3/ 9.7	18	
5 1	17 38.85	-40 19.1	1.220	2.041	21.3	18.9	5 1	17 38.09	-24 11.0	2.684	3.478	11.7	18.4
5 11	17 37.52	-42 0.9	1.157	2.042	18.2	18.7	5 11	17 33.61	-24 10.9	2.600	3.487	9.2	18.2
5 21	17 31.91	-43 29.8	1.112	2.045	14.9	18.5	5 21	17 27.34	-24 8.6	2.539	3.496	6.3	18.0
5 31	17 22.66	-44 35.6	1.085	2.050	12.0	18.4	5 31	17 19.76	-24 3.6	2.504	3.504	3.2	17.8
6 10	17 11.35	-45 10.1	1.079	2.055	10.7	18.3	6 10	17 11.53	-23 55.8	2.497	3.512	0.3	17.6
6 20	17 0.06	-45 10.4	1.094	2.063	11.8	18.4	6 20	17 3.38	-23 45.9	2.519	3.520	3.4	17.9
6 30	16 50.93	-44 40.3	1.129	2.071	14.4	18.6	6 30	16 56.04	-23 34.9	2.569	3.527	6.5	18.1
7 10	16 45.47	-43 48.9	1.184	2.081	17.5	18.8	7 10	16 50.11	-23 24.4	2.645	3.534	9.2	18.3
36753	2000 RH ₇₀		6 9.6 118°55	3.8/ 8.9	18		65929	1998 FL ₅₆		6 9.6 16°50	8.2/ 7.5	18	
5 1	17 42.55	-15 21.0	1.630	2.444	17.1	18.6	5 1	17 35.06	-1 47.6	2.144	2.928	14.5	19.6
5 11	17 38.07	-14 47.3	1.560	2.456	13.7	18.4	5 11	17 31.54	-0 41.9	2.069	2.929	12.3	19.5
5 21	17 30.86	-14 16.6	1.510	2.468	9.7	18.2	5 21	17 26.08	+0 14.1	2.015	2.930	10.2	19.3
5 31	17 21.62	-13 50.9	1.484	2.479	5.8	18.0	5 31	17 19.18	+0 55.7	1.984	2.931	8.6	19.2
6 10	17 11.42	-13 32.4	1.483	2.490	3.9	17.9	6 10	17 11.55	+1 19.5	1.978	2.933	8.2	19.2
6 20	17 1.43	-13 22.5	1.508	2.501	6.5	18.1	6 20	17 3.99	+1 23.7	1.996	2.934	9.3	19.3
6 30	16 52.79	-13 22.6	1.559	2.511	10.4	18.3	6 30	16 57.28	+1 8.1	2.039	2.935	11.2	19.4
7 10	16 46.35	-13 32.6	1.632	2.520	14.0	18.6	7 10	16 52.08	+0 35.1	2.103	2.937	13.4	19.5
270321	2001 XT ₃₉		6 9.6 102°45	4.3/11.0	17		249805	2001 AVW ₄₅		6 9.6 152°64	17.0/14.7	18	
5 1	17 46.53	-36 11.9	1.										

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
434755	2006 HA ₈₀		6 9.6 262°94	1°9/ 9.1 18			364717	2007 VF ₆₁		6 9.6 284°27	1°3/ 9.3 18		
5 1	17 38.21	-19 32.3	1.983	2.795	14.6	20.9	5 1	17 40.20	-22 52.1	1.469	2.298	17.9	20.8
5 11	17 34.42	-19 4.9	1.892	2.790	11.6	20.7	5 11	17 37.11	-22 17.2	1.375	2.281	14.4	20.5
5 21	17 28.29	-18 36.4	1.823	2.784	8.1	20.5	5 21	17 30.83	-21 36.6	1.299	2.265	10.1	20.2
5 31	17 20.37	-18 7.8	1.779	2.779	4.3	20.3	5 31	17 21.92	-20 50.9	1.246	2.248	5.2	19.9
6 10	17 11.51	-17 40.8	1.761	2.773	2.0	20.1	6 10	17 11.48	-20 1.9	1.217	2.232	1.4	19.6
6 20	17 2.66	-17 17.0	1.770	2.768	5.0	20.3	6 20	17 0.91	-19 13.1	1.213	2.215	6.0	19.8
6 30	16 54.82	-16 58.5	1.805	2.762	8.8	20.5	6 30	16 51.66	-18 28.9	1.234	2.198	11.2	20.1
7 10	16 48.77	-16 46.7	1.864	2.757	12.3	20.7	7 10	16 44.92	-17 53.4	1.276	2.182	15.9	20.3
87279	2000 PX ₁₁		6 9.6 233°21	6°0/ 8.8 18			59904	1999 RR ₁₄₉		6 9.6 196°35	0°1/ 9.7 18		
5 1	17 40.05	- 5 43.4	2.207	2.990	14.2	19.9	5 1	17 37.73	-23 52.8	2.759	3.553	11.4	19.9
5 11	17 35.58	- 5 20.7	2.110	2.978	11.8	19.7	5 11	17 33.37	-23 50.1	2.664	3.550	9.0	19.7
5 21	17 28.99	- 5 6.7	2.034	2.966	9.2	19.5	5 21	17 27.23	-23 45.3	2.591	3.548	6.2	19.5
5 31	17 20.72	- 5 4.4	1.982	2.953	6.9	19.4	5 31	17 19.76	-23 38.0	2.545	3.545	3.1	19.3
6 10	17 11.50	- 5 15.7	1.956	2.939	6.0	19.3	6 10	17 11.59	-23 28.2	2.527	3.542	0.2	19.0
6 20	17 2.18	- 5 41.2	1.957	2.925	7.4	19.3	6 20	17 3.44	-23 16.4	2.538	3.539	3.4	19.3
6 30	16 53.64	- 6 20.4	1.985	2.911	10.0	19.5	6 30	16 56.02	-23 3.9	2.578	3.535	6.5	19.5
7 10	16 46.66	- 7 11.6	2.037	2.896	12.9	19.6	7 10	16 49.96	-22 52.1	2.643	3.531	9.3	19.7
122196	2000 LE ₇		6 9.6 1°85	4°8/ 9.4 17			346142	2007 VZ ₂₃₀		6 9.6 171°07	0°5/ 9.7 18		
5 1	17 36.41	-13 42.1	1.092	1.945	21.2	19.3	5 1	17 39.24	-24 19.3	2.190	2.994	13.6	21.6
5 11	17 34.66	-13 29.2	1.025	1.944	17.1	19.0	5 11	17 35.08	-24 27.4	2.103	2.995	10.8	21.4
5 21	17 29.37	-13 24.8	0.975	1.943	12.4	18.7	5 21	17 28.68	-24 33.5	2.036	2.995	7.5	21.2
5 31	17 21.21	-13 31.7	0.944	1.943	7.4	18.5	5 31	17 20.57	-24 36.5	1.995	2.996	3.8	20.9
6 10	17 11.49	-13 51.3	0.935	1.944	4.8	18.3	6 10	17 11.56	-24 35.9	1.981	2.996	0.6	20.7
6 20	17 1.79	-14 23.5	0.948	1.946	8.0	18.5	6 20	17 2.57	-24 32.0	1.995	2.997	4.1	21.0
6 30	16 53.76	-15 7.0	0.982	1.949	13.0	18.8	6 30	16 54.55	-24 25.9	2.036	2.997	7.7	21.2
7 10	16 48.62	-15 59.5	1.035	1.953	17.7	19.1	7 10	16 48.25	-24 19.7	2.102	2.997	11.0	21.4
231863	2000 SJ ₂₆₁		6 9.6 297°06	1°0/ 9.5 18			52768	1998 OR ₂		6 9.6 12°10	17°8/24.9 18		
5 1	17 38.97	-20 11.7	1.684	2.506	16.3	20.9	5 1	11 13.45	-31 3.8	0.043	1.037	46.5	10.8
5 11	17 35.89	-20 15.6	1.576	2.479	13.2	20.6	5 11	14 41.38	-55 34.2	0.073	1.068	35.7	11.7
5 21	17 29.92	-20 20.9	1.487	2.451	9.3	20.3	5 21	16 22.20	-54 37.7	0.120	1.112	31.4	12.8
5 31	17 21.49	-20 27.3	1.422	2.423	4.8	20.0	5 31	16 57.68	-51 29.8	0.173	1.167	25.7	13.5
6 10	17 11.48	-20 34.5	1.381	2.396	1.0	19.7	6 10	17 12.28	-48 29.7	0.233	1.230	20.8	14.1
6 20	17 1.07	-20 42.4	1.366	2.368	5.4	19.9	6 20	17 19.80	-45 42.5	0.302	1.299	18.1	14.7
6 30	16 51.61	-20 52.0	1.377	2.341	10.3	20.1	6 30	17 25.75	-43 8.8	0.381	1.372	18.1	15.3
7 10	16 44.29	-21 4.5	1.410	2.313	14.8	20.3	7 10	17 32.39	-40 51.1	0.472	1.447	19.9	16.0
477694	2010 RA ₉₉		6 9.6 274°88	3°4/ 8.6 18			261153	2005 TN ₈₂		6 9.6 151°51	2°4/ 8.9 17		
5 1	17 35.95	-14 30.7	2.434	3.235	12.5	21.7	5 1	17 36.63	-17 5.5	2.482	3.283	12.3	21.0
5 11	17 32.21	-13 54.4	2.329	3.218	10.1	21.5	5 11	17 32.56	-16 32.4	2.396	3.286	9.8	20.8
5 21	17 26.58	-13 19.3	2.247	3.200	7.3	21.3	5 21	17 26.68	-15 59.7	2.333	3.289	6.9	20.6
5 31	17 19.48	-12 47.5	2.191	3.183	4.6	21.1	5 31	17 19.48	-15 28.7	2.295	3.291	3.9	20.5
6 10	17 11.57	-12 20.9	2.162	3.165	3.4	21.0	6 10	17 11.62	-15 1.1	2.285	3.293	2.5	20.4
6 20	17 3.58	-12 1.1	2.160	3.147	5.3	21.1	6 20	17 3.83	-14 38.3	2.303	3.296	4.6	20.5
6 30	16 56.31	-11 49.6	2.186	3.129	8.3	21.3	6 30	16 56.84	-14 21.7	2.349	3.298	7.5	20.7
7 10	16 50.41	-11 47.0	2.235	3.111	11.2	21.4	7 10	16 51.26	-14 12.2	2.419	3.300	10.3	20.9
511822	2015 FT ₁₆₈		6 9.6 224°49	7°2/ 7.8 18			103494	2000 AB ₂₃₉		6 9.6 185°00	0°1/ 9.6 17		
5 1	17 38.05	- 5 15.6	2.064	2.855	14.8	21.7	5 1	17 39.55	-23 4.1	2.110	2.915	14.0	20.7
5 11	17 34.07	- 4 17.8	1.978	2.848	12.4	21.5	5 11	17 35.38	-23 2.2	2.022	2.915	11.1	20.5
5 21	17 27.94	- 3 27.5	1.913	2.842	9.9	21.3	5 21	17 28.92	-22 58.5	1.955	2.915	7.7	20.3
5 31	17 20.18	- 2 48.9	1.871	2.835	7.8	21.2	5 31	17 20.70	-22 52.4	1.914	2.915	3.9	20.1
6 10	17 11.54	- 2 25.7	1.855	2.828	7.2	21.1	6 10	17 11.57	-22 43.9	1.899	2.914	0.2	19.8
6 20	17 2.90	- 2 19.7	1.865	2.821	8.6	21.2	6 20	17 2.47	-22 33.7	1.912	2.914	4.2	20.1
6 30	16 55.14	- 2 31.6	1.900	2.813	11.1	21.3	6 30	16 54.37	-22 23.2	1.952	2.913	8.0	20.3
7 10	16 49.00	- 2 59.9	1.957	2.806	13.7	21.5	7 10	16 48.04	-22 14.4	2.017	2.912	11.4	20.5
394666	2008 CT ₂₃		6 9.6 86°90	4°3/10.6 17			121229	1999 RC ₃₀		6 9.6 350°00	18°2/17.8 18		
5 1	17 40.70	-35 23.0	2.285	3.068	13.8	21.3	5 1	17 57.15	-64 14.3	1.550	2.231	23.0	18.6
5 11	17 36.39	-35 50.6	2.199	3.070	11.3	21.1	5 11	17 54.84	-65 41.8	1.483	2.224	21.8	18.4
5 21	17 29.65	-36 10.0	2.135	3.073	8.5	21.0	5 21	17 45.47	-66 42.2	1.427	2.218	20.4	18.3
5 31	17 21.06	-36 18.1	2.094	3.075	5.8	20.8	5 31	17 29.91	-67 2.6	1.386	2.213	19.3	18.2
6 10	17 11.51	-36 13.1	2.080	3.078	4.3	20.7	6 10	17 11.18	-66 32.0	1.360	2.209	18.5	18.1
6 20	17 2.02	-35 54.9	2.094	3.080	5.5	20.8	6 20	16 53.44	-65 7.1	1.350	2.206	18.3	18.1
6 30	16 53.63	-35 25.6	2.133	3.082	8.1	21.0	6 30	16 40.26	-62 54.5	1.359	2.204	18.8	18.1
7 10	16 47.15	-34 49.3	2.198	3.085	10.9	21.1	7 10	16 33.25	-60 8.4	1.385	2.204	19.9	18.2
164544	2006 JU ₂₉		6 9.6 304°04	3°0/ 8.9 17			134665	1999 VR ₁₄₈		6 9.6 229°25	0°9/ 9.4 17		
5 1	17 36.92	-17 15.0	1.812	2.632	15.4	20.1	5 1	17 42.28	-21 58.8	1.861	2.669	15.5	21.1
5 11	17 33.69	-16 44.3	1.720	2.620	12.4	19.9	5 11	17 37.95	-21 40.8	1.764	2.660	12.4	20.9
5 21	17 27.97	-16 14.2	1.648	2.609	8.8	19.7	5 21	17 30.95	-21 20.4	1.689	2.650	8.6	20.6
5 31	17 20.29	-15 46.4	1.600	2.598	5.0	19.4	5 31	17 21.83	-20 57.5	1.638	2.639	4.4	20.4
6 10	17 11.54	-15 22.7	1.578	2.587	3.0	19.3	6 10	17 11.52	-20 32.8	1.613	2.628	1.0	20.1
6 20	17 2.73	-15 5.2	1.581	2.577	5.8	19.4	6 20	17 1.16	-20 7.9	1.616	2.616	5.0	20.4
6 30	16 54.94	-14 55.6	1.610	2.566	9.8	19.6	6 30	16 51.89	-19 45.2	1.645	2.604	9.3	20.6
7 10	16 49.06	-14 55.0	1.662	2.556	13.5	19.8	7 10	16 44.69	-19 27.2	1.698	2.592	13.3	20.8
390777	2003 UB ₃₁₆		6 9.6 249°59	2°6/10.3 18			201602	2003 SU ₁₈₇		6 9.6 238°03	1°8/10.1 17		
5 1	17 42.												

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
192339	1995 <i>OD</i> ₄		6 9.6 242°80	1.7/ 9.9	18		400205	2007 <i>BO</i>		6 9.6 125°56	4.4/ 9.0	17	
5 1	17 42.37	-28 21.7	2.357	3.147	13.2	21.8	5 1	17 37.22	-7 26.4	2.768	3.547	11.7	21.5
5 11	17 37.64	-28 28.9	2.247	3.129	10.6	21.6	5 11	17 32.73	-7 14.4	2.690	3.559	9.6	21.3
5 21	17 30.55	-28 31.5	2.159	3.111	7.6	21.4	5 21	17 26.66	-7 9.0	2.635	3.570	7.2	21.2
5 31	17 21.58	-28 27.6	2.096	3.093	4.2	21.1	5 31	17 19.45	-7 11.9	2.606	3.581	5.2	21.1
6 10	17 11.54	-28 16.2	2.061	3.073	1.7	20.9	6 10	17 11.68	-7 23.9	2.604	3.592	4.4	21.0
6 20	17 1.35	-27 57.6	2.054	3.053	4.3	21.1	6 20	17 3.99	-7 45.1	2.630	3.603	5.5	21.1
6 30	16 52.03	-27 33.4	2.075	3.033	7.8	21.3	6 30	16 57.00	-8 15.0	2.684	3.613	7.6	21.3
7 10	16 44.44	-27 6.6	2.122	3.011	11.2	21.4	7 10	16 51.24	-8 52.5	2.764	3.623	9.9	21.4
309690	2008 <i>FT</i> ₁₃		6 9.6 27°35	4.6/ 8.4	17		222543	2001 <i>UX</i> ₂₁₅		6 9.6 143°52	1.7/ 9.9	17	
5 1	17 35.26	-12 0.1	2.068	2.878	14.1	20.6	5 1	17 44.04	-27 23.9	2.225	3.016	13.9	22.0
5 11	17 31.81	-11 14.9	1.991	2.882	11.4	20.4	5 11	17 38.80	-27 41.2	2.144	3.027	11.0	21.8
5 21	17 26.33	-10 33.7	1.936	2.887	8.4	20.2	5 21	17 31.20	-27 54.7	2.085	3.038	7.8	21.7
5 31	17 19.35	-9 59.1	1.905	2.891	5.7	20.1	5 31	17 21.83	-28 2.4	2.051	3.048	4.2	21.5
6 10	17 11.63	-9 33.7	1.900	2.897	4.7	20.0	6 10	17 11.59	-28 3.1	2.045	3.057	1.7	21.3
6 20	17 4.01	-9 19.3	1.921	2.902	6.4	20.1	6 20	17 1.45	-27 57.0	2.067	3.066	4.2	21.5
6 30	16 57.31	-9 16.7	1.968	2.908	9.3	20.3	6 30	16 52.40	-27 45.6	2.117	3.075	7.7	21.7
7 10	16 52.21	-9 25.6	2.038	2.914	12.2	20.5	7 10	16 45.22	-27 31.6	2.193	3.082	10.9	21.9
349019	2006 <i>UE</i> ₃₅₈		6 9.6 138°10	0.2/ 9.6	17		285475	2000 <i>AE</i> ₂₂₁		6 9.6 269°74	2.1/ 10.1	17	
5 1	17 38.79	-22 33.3	2.785	3.576	11.3	22.7	5 1	17 40.15	-29 5.0	1.988	2.792	14.8	21.1
5 11	17 34.08	-22 33.3	2.701	3.587	8.9	22.5	5 11	17 36.22	-29 11.5	1.897	2.787	11.9	20.9
5 21	17 27.63	-22 32.0	2.641	3.598	6.2	22.4	5 21	17 29.71	-29 12.2	1.826	2.782	8.5	20.7
5 31	17 19.94	-22 29.2	2.608	3.608	3.1	22.2	5 31	17 21.20	-29 5.2	1.780	2.776	4.8	20.5
6 10	17 11.63	-22 24.7	2.603	3.618	0.2	21.9	6 10	17 11.61	-28 49.4	1.759	2.771	2.1	20.3
6 20	17 3.41	-22 19.0	2.628	3.628	3.3	22.2	6 20	17 2.03	-28 25.6	1.766	2.766	4.7	20.4
6 30	16 55.96	-22 13.1	2.680	3.637	6.3	22.4	6 30	16 53.56	-27 56.2	1.799	2.760	8.5	20.7
7 10	16 49.87	-22 8.2	2.759	3.646	9.0	22.6	7 10	16 47.10	-27 24.7	1.856	2.755	12.0	20.9
211191	2002 <i>LR</i> ₉		6 9.6 13°59	4.8/ 8.7	17		394612	2007 <i>VV</i> ₃₁₀		6 9.6 79°90	0.3/ 9.7	17	
5 1	17 36.09	-16 40.4	1.177	2.028	20.1	19.4	5 1	17 39.08	-23 53.2	2.220	3.023	13.5	21.6
5 11	17 34.05	-15 44.2	1.112	2.030	16.1	19.1	5 11	17 34.77	-23 57.2	2.146	3.038	10.6	21.4
5 21	17 28.69	-14 48.8	1.065	2.033	11.5	18.9	5 21	17 28.34	-23 59.0	2.093	3.052	7.3	21.3
5 31	17 20.78	-13 58.2	1.039	2.038	6.9	18.6	5 31	17 20.36	-23 58.2	2.066	3.067	3.7	21.1
6 10	17 11.60	-13 17.1	1.035	2.043	4.8	18.5	6 10	17 11.65	-23 54.3	2.066	3.081	0.3	20.8
6 20	17 2.61	-12 49.1	1.054	2.049	8.0	18.7	6 20	17 3.08	-23 48.0	2.094	3.095	3.9	21.1
6 30	16 55.26	-12 36.6	1.094	2.056	12.6	19.0	6 30	16 55.51	-23 40.5	2.149	3.110	7.4	21.4
7 10	16 50.58	-12 40.0	1.155	2.064	16.9	19.3	7 10	16 49.64	-23 33.6	2.229	3.124	10.5	21.6
383244	2006 <i>BP</i> ₂₁₆		6 9.6 214°82	3.8/ 9.2	17		54535	2000 <i>QJ</i> ₃₉		6 9.6 186°00	4.8/ 11.0	18	
5 1	17 40.37	-12 1.0	2.141	2.937	14.1	21.7	5 1	17 42.48	-38 29.5	2.523	3.288	13.1	19.3
5 11	17 35.93	-11 52.7	2.048	2.932	11.4	21.5	5 11	17 37.65	-38 51.4	2.431	3.288	10.9	19.1
5 21	17 29.28	-11 50.1	1.976	2.926	8.4	21.3	5 21	17 30.46	-39 3.7	2.361	3.287	8.4	18.9
5 31	17 20.92	-11 54.5	1.929	2.919	5.3	21.1	5 31	17 21.49	-39 3.1	2.316	3.287	6.1	18.8
6 10	17 11.60	-12 6.9	1.909	2.912	3.8	21.0	6 10	17 11.61	-38 48.0	2.297	3.286	4.8	18.7
6 20	17 2.22	-12 27.4	1.916	2.904	5.8	21.1	6 20	17 1.80	-38 18.4	2.306	3.285	5.7	18.8
6 30	16 53.70	-12 55.9	1.951	2.897	9.0	21.3	6 30	16 53.06	-37 36.8	2.342	3.283	7.9	18.9
7 10	16 46.83	-13 31.5	2.009	2.888	12.2	21.5	7 10	16 46.17	-36 47.3	2.402	3.282	10.4	19.0
406488	1999 <i>RO</i> ₁₈₅		6 9.6 139°26	0.2/ 9.6	18		237944	2002 <i>RM</i> ₁₁		6 9.6 331°58	3.5/ 9.0	18	
5 1	17 39.82	-23 22.0	1.896	2.708	15.1	19.4	5 1	17 37.50	-14 29.5	1.922	2.735	14.9	20.4
5 11	17 35.85	-23 12.1	1.812	2.710	12.0	19.2	5 11	17 33.89	-14 8.3	1.838	2.733	12.0	20.2
5 21	17 29.36	-22 59.6	1.749	2.711	8.3	19.0	5 21	17 27.97	-13 50.7	1.774	2.731	8.6	20.0
5 31	17 20.97	-22 44.0	1.710	2.712	4.2	18.7	5 31	17 20.28	-13 38.4	1.735	2.730	5.2	19.8
6 10	17 11.60	-22 25.7	1.698	2.713	0.3	18.4	6 10	17 11.65	-13 32.7	1.722	2.728	3.5	19.7
6 20	17 2.30	-22 6.0	1.712	2.714	4.5	18.7	6 20	17 3.05	-13 34.8	1.735	2.727	5.8	19.8
6 30	16 54.13	-21 46.9	1.753	2.715	8.6	19.0	6 30	16 55.43	-13 45.2	1.774	2.725	9.3	20.0
7 10	16 47.94	-21 30.7	1.818	2.716	12.3	19.2	7 10	16 49.60	-14 3.7	1.836	2.724	12.7	20.2
359469	2010 <i>NH</i> ₇₅		6 9.6 220°76	8.0/ 10.3	18		60971	2000 <i>JM</i> ₈₅		6 9.6 71°77	3.6/ 9.1	17	
5 1	17 49.24	-49 15.9	3.016	3.719	12.4	21.0	5 1	17 41.76	-16 59.7	1.306	2.139	19.5	19.5
5 11	17 43.49	-50 37.1	2.921	3.711	11.0	20.9	5 11	17 38.16	-16 27.4	1.243	2.150	15.6	19.3
5 21	17 34.90	-51 48.3	2.848	3.703	9.6	20.7	5 21	17 31.33	-15 57.4	1.197	2.162	11.0	19.1
5 31	17 23.93	-52 43.8	2.798	3.694	8.5	20.7	5 31	17 22.04	-15 31.9	1.174	2.173	6.2	18.8
6 10	17 11.48	-53 19.2	2.773	3.685	8.0	20.6	6 10	17 11.59	-15 13.1	1.174	2.184	3.6	18.7
6 20	16 58.70	-53 32.3	2.774	3.676	8.4	20.6	6 20	17 1.40	-15 2.8	1.199	2.196	7.0	18.9
6 30	16 46.88	-53 24.0	2.800	3.666	9.5	20.7	6 30	16 52.85	-15 2.7	1.247	2.207	11.5	19.2
7 10	16 37.12	-52 58.2	2.849	3.656	11.0	20.8	7 10	16 46.95	-15 12.8	1.316	2.219	15.7	19.5
425636	2010 <i>VH</i> ₁₄₀		6 9.6 291°99	4.0/ 9.9	17		254140	2004 <i>PR</i> ₅₉		6 9.6 263°12	5.6/ 8.2	18	
5 1	17 41.89	-29 14.9	1.482	2.303	18.2	21.2	5 1	17 35.40	-6 24.1	2.498	3.285	12.6	20.9
5 11	17 38.94	-30 0.6	1.385	2.284	14.9	20.9	5 11	17 31.66	-5 46.3	2.403	3.274	10.5	20.7
5 21	17 32.48	-30 43.6	1.307	2.266	10.9	20.6	5 21	17 26.16	-5 15.0	2.330	3.262	8.2	20.6
5 31	17 22.97	-31 19.3	1.251	2.247	6.6	20.3	5 31	17 19.30	-4 53.0	2.282	3.251	6.3	20.4
6 10	17 11.52	-31 43.2	1.219	2.228	4.0	20.1	6 10	17 11.70	-4 42.5	2.260	3.239	5.6	20.4
6 20	16 59.64	-31 52.6	1.212	2.209	6.8	20.2	6 20	17 4.07	-4 44.7	2.264	3.228	6.9	20.4
6 30	16 49.08	-31 48.7	1.228	2.191	11.4	20.5	6 30	16 57.11	-5 0.1	2.295	3.216	9.1	20.6
7 10	16 41.30	-31 35.7	1.266	2.173	15.9	20.7	7 10	16 51.45	-5 27.6	2.350	3.204	11.5	20.7
19239	1994 <i>AM</i> ₂		6 9.6 40°43	9.9/ 13.7	18		366310	2013 <i>CL</i> ₁₃₄		6 9.6 117°14			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
175818	1999 SZ		6 9.6 210°77	3°8/ 8.9 18			234178	2000 QW ₆		6 9.7 253°09	6°3/ 8.1 18		
5 1	17 41.17	-14 55.2	1.804	2.614	15.9	21.0	5 1	17 39.95	-5 54.7	2.299	3.079	13.8	21.5
5 11	17 36.98	-14 22.8	1.716	2.610	12.8	20.8	5 11	17 35.55	-5 12.5	2.190	3.056	11.5	21.3
5 21	17 30.22	-13 52.8	1.649	2.605	9.2	20.6	5 21	17 29.06	-4 36.9	2.103	3.033	9.1	21.1
5 31	17 21.46	-13 27.3	1.606	2.600	5.6	20.4	5 31	17 20.88	-4 11.3	2.041	3.009	7.0	21.0
6 10	17 11.62	-13 8.5	1.588	2.594	3.8	20.2	6 10	17 11.70	-3 58.6	2.005	2.984	6.4	20.9
6 20	17 1.76	-12 58.1	1.597	2.588	6.4	20.4	6 20	17 2.34	-4 0.5	1.997	2.958	7.8	20.9
6 30	16 53.00	-12 57.3	1.632	2.582	10.2	20.6	6 30	16 53.66	-4 17.8	2.014	2.931	10.4	21.0
7 10	16 46.22	-13 6.6	1.690	2.575	13.8	20.8	7 10	16 46.46	-4 49.4	2.055	2.904	13.1	21.1
318160	2004 QZ ₂		6 9.6 205°13	0°3/ 9.6 15			101650	1999 CU ₆₂		6 9.7 157°75	1°2/ 9.4 18		
5 1	17 46.11	-22 41.0	2.579	3.358	12.5	23.5	5 1	17 38.91	-19 52.3	2.380	3.180	12.8	20.3
5 11	17 40.15	-22 35.5	2.472	3.350	9.9	23.3	5 11	17 34.52	-19 41.0	2.294	3.184	10.1	20.2
5 21	17 32.05	-22 28.1	2.388	3.341	6.9	23.1	5 21	17 28.16	-19 29.6	2.230	3.188	7.0	20.0
5 31	17 22.28	-22 18.0	2.331	3.331	3.5	22.9	5 31	17 20.32	-19 18.2	2.192	3.192	3.6	19.8
6 10	17 11.59	-22 5.2	2.304	3.319	0.3	22.6	6 10	17 11.74	-19 7.5	2.181	3.195	1.2	19.6
6 20	17 0.84	-21 50.2	2.306	3.306	3.8	22.9	6 20	17 3.22	-18 58.3	2.199	3.198	4.1	19.8
6 30	16 50.92	-21 34.7	2.339	3.291	7.3	23.1	6 30	16 55.56	-18 51.6	2.245	3.201	7.4	20.0
7 10	16 42.58	-21 20.3	2.397	3.275	10.5	23.2	7 10	16 49.44	-18 48.7	2.315	3.203	10.4	20.2
216009	2005 UD ₃₄		6 9.6 310°88	0°3/ 9.6 16			315291	2007 TJ ₁₄₇		6 9.7 254°18	0°2/ 9.7 17		
5 1	17 36.30	-22 32.9	2.013	2.828	14.3	20.7	5 1	17 43.00	-22 40.3	1.603	2.420	17.2	21.3
5 11	17 33.15	-22 28.8	1.910	2.809	11.4	20.4	5 11	17 39.20	-22 55.1	1.508	2.408	13.8	21.0
5 21	17 27.62	-22 23.0	1.828	2.790	7.9	20.2	5 21	17 32.27	-23 10.1	1.432	2.395	9.7	20.7
5 31	17 20.19	-22 15.4	1.770	2.772	4.0	19.9	5 31	17 22.74	-23 23.6	1.380	2.381	5.0	20.4
6 10	17 11.67	-22 5.9	1.739	2.754	0.4	19.6	6 10	17 11.64	-23 34.1	1.352	2.368	0.3	20.0
6 20	17 3.01	-21 55.4	1.734	2.736	4.5	19.9	6 20	17 0.30	-23 41.2	1.351	2.354	5.4	20.4
6 30	16 55.23	-21 45.3	1.756	2.719	8.5	20.1	6 30	16 50.18	-23 45.7	1.375	2.339	10.3	20.6
7 10	16 49.23	-21 37.5	1.801	2.702	12.3	20.3	7 10	16 42.46	-23 50.0	1.422	2.325	14.8	20.8
396156	2013 EG ₂₅		6 9.6 149°97	5°5/ 8.1 16			263324	2008 CK ₅₀		6 9.7 357°16	2°7/ 9.5 18		
5 1	17 35.67	-5 47.8	2.684	3.464	12.0	21.8	5 1	17 38.69	-15 57.6	1.355	2.191	18.8	19.6
5 11	17 31.61	-5 3.6	2.604	3.469	9.9	21.6	5 11	17 35.94	-16 5.8	1.279	2.189	15.1	19.4
5 21	17 25.94	-4 25.9	2.546	3.474	7.8	21.5	5 21	17 30.02	-16 20.5	1.222	2.187	10.7	19.1
5 31	17 19.12	-3 57.3	2.514	3.479	6.1	21.4	5 31	17 21.57	-16 42.2	1.186	2.186	5.9	18.8
6 10	17 11.72	-3 40.0	2.509	3.483	5.5	21.4	6 10	17 11.69	-17 10.6	1.173	2.186	2.7	18.6
6 20	17 4.39	-3 35.1	2.531	3.487	6.6	21.4	6 20	17 1.79	-17 44.8	1.185	2.186	6.3	18.9
6 30	16 57.76	-3 42.8	2.579	3.491	8.6	21.6	6 30	16 53.28	-18 23.8	1.221	2.187	11.1	19.1
7 10	16 52.36	-4 2.3	2.651	3.495	10.7	21.7	7 10	16 47.28	-19 6.7	1.278	2.188	15.5	19.4
73727	1993 FT ₃₉		6 9.6 100°83	2°7/10.1 17			293118	2006 XR ₃₅		6 9.7 189°29	0°5/ 9.5 18		
5 1	17 44.76	-28 52.7	1.673	2.481	17.0	20.2	5 1	17 37.79	-21 30.8	2.787	3.580	11.3	22.1
5 11	17 40.18	-29 18.0	1.602	2.494	13.6	20.0	5 11	17 33.40	-21 25.5	2.693	3.579	8.9	21.9
5 21	17 32.57	-29 38.0	1.551	2.507	9.7	19.8	5 21	17 27.27	-21 19.3	2.621	3.578	6.2	21.7
5 31	17 22.65	-29 49.4	1.523	2.519	5.5	19.6	5 31	17 19.86	-21 12.2	2.576	3.577	3.1	21.5
6 10	17 11.59	-29 50.2	1.521	2.532	2.7	19.4	6 10	17 11.77	-21 4.3	2.560	3.575	0.6	21.3
6 20	17 0.72	-29 40.6	1.545	2.544	5.4	19.6	6 20	17 3.69	-20 56.1	2.572	3.572	3.4	21.5
6 30	16 51.35	-29 23.0	1.595	2.556	9.4	19.9	6 30	16 56.33	-20 48.8	2.613	3.569	6.5	21.7
7 10	16 44.46	-29 1.6	1.668	2.568	13.1	20.1	7 10	16 50.28	-20 43.4	2.680	3.566	9.2	21.9
496760	2016 UE ₁₄₃		6 9.6 178°97	1°7/10.1 18			505841	2015 CO ₂₅		6 9.7 128°97	1°1/ 9.8 17		
5 1	17 38.75	-28 51.6	2.868	3.653	11.2	22.2	5 1	17 40.95	-25 50.8	1.839	2.650	15.6	21.7
5 11	17 34.20	-29 3.8	2.775	3.654	9.0	22.0	5 11	17 36.94	-25 57.9	1.756	2.652	12.4	21.5
5 21	17 27.84	-29 11.9	2.704	3.655	6.4	21.9	5 21	17 30.26	-26 1.5	1.694	2.653	8.7	21.3
5 31	17 20.12	-29 14.8	2.660	3.655	3.6	21.7	5 31	17 21.52	-25 59.9	1.655	2.655	4.5	21.0
6 10	17 11.69	-29 11.5	2.644	3.655	1.7	21.5	6 10	17 11.71	-25 52.6	1.642	2.657	1.1	20.8
6 20	17 3.29	-29 2.4	2.657	3.655	3.6	21.7	6 20	17 1.94	-25 40.1	1.657	2.658	4.7	21.0
6 30	16 55.65	-28 48.5	2.698	3.654	6.3	21.9	6 30	16 53.38	-25 24.2	1.697	2.660	8.8	21.3
7 10	16 49.38	-28 32.0	2.765	3.653	8.9	22.0	7 10	16 46.92	-25 7.9	1.761	2.661	12.5	21.5
250926	2005 WA ₇₄		6 9.6 207°68	4°5/ 8.2 18			489614	2007 TO ₂₄₂		6 9.7 282°20	6°0/10.3 18		
5 1	17 35.36	-6 30.6	3.306	4.078	10.1	22.0	5 1	17 44.79	-37 42.2	2.169	2.943	14.7	21.9
5 11	17 31.11	-5 56.2	3.210	4.071	8.4	21.9	5 11	17 40.45	-38 29.0	2.050	2.912	12.4	21.7
5 21	17 25.50	-5 26.8	3.136	4.064	6.5	21.7	5 21	17 33.12	-39 8.6	1.952	2.880	9.8	21.5
5 31	17 18.89	-5 4.2	3.089	4.056	5.0	21.6	5 31	17 23.22	-39 35.7	1.877	2.848	7.2	21.3
6 10	17 11.75	-4 50.2	3.070	4.047	4.5	21.6	6 10	17 11.65	-39 45.9	1.828	2.815	6.0	21.1
6 20	17 4.60	-4 45.6	3.080	4.038	5.5	21.6	6 20	16 59.64	-39 37.0	1.805	2.782	7.2	21.1
6 30	16 57.97	-4 50.8	3.116	4.029	7.3	21.7	6 30	16 48.59	-39 10.1	1.809	2.749	10.0	21.2
7 10	16 52.34	-5 5.4	3.178	4.019	9.2	21.8	7 10	16 39.70	-38 29.8	1.836	2.715	13.1	21.4
130551	2000 RV ₄		6 9.6 329°06	5°2/ 8.7 17			9311	1987 UV ₁		6 9.7 278°47	1°3/ 9.9 18		
5 1	17 36.61	-14 54.7	1.247	2.091	19.6	19.0	5 1	17 41.11	-26 4.5	1.641	2.459	16.8	18.2
5 11	17 34.52	-14 9.0	1.168	2.082	15.9	18.7	5 11	17 37.69	-26 10.6	1.544	2.443	13.6	18.0
5 21	17 29.17	-13 25.8	1.108	2.073	11.6	18.4	5 21	17 31.21	-26 12.7	1.466	2.428	9.6	17.7
5 31	17 21.16	-12 49.1	1.068	2.065	7.2	18.1	5 31	17 22.20	-26 9.0	1.411	2.412	5.1	17.4
6 10	17 11.67	-12 22.8	1.051	2.057	5.2	18.0	6 10	17 11.70	-25 58.3	1.382	2.396	1.3	17.1
6 20	17 2.11	-12 10.0	1.056	2.050	8.3	18.2	6 20	17 1.01	-25 41.0	1.378	2.380	5.3	17.3
6 30	16 54.00	-12 12.6	1.084	2.044	12.9	18.4	6 30	16 51.53	-25 19.5	1.399	2.365	10.1	17.5
7 10	16 48.49	-12 30.3	1.131	2.038	17.4	18.6	7 10	16 44.42	-24 57.4	1.443	2.349	14.4	17.8
203398	2001 XE ₁₅₄		6 9.7	2°82 1°0/ 9.6 17			419756	2010 VX ₉₈		6 9.7 92°08	14°4/12.2 17		
5 1	17 40.45	-19 3.2	1.253	2.092	19.8								

EPHEMERIDES

6 9.7

6 9.7

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
504357	2007 <i>UP</i> ₂₉		6 9.7 232°19	10°1/ 5.0	17		134373	1995 <i>SO</i> ₁₅		6 9.7 241°46	0°4/ 9.7	18	
5 1	17 41.88	- 4 17.5	1.778	2.568	16.8	21.8	5 1	17 43.07	-24 23.0	1.889	2.695	15.4	21.2
5 11	17 37.52	- 2 6.4	1.692	2.558	14.4	21.6	5 11	17 38.75	-24 22.8	1.788	2.681	12.4	20.9
5 21	17 30.61	+ 0 0.9	1.629	2.547	12.0	21.4	5 21	17 31.67	-24 19.8	1.707	2.667	8.7	20.7
5 31	17 21.72	+ 1 56.2	1.589	2.536	10.4	21.3	5 31	17 22.36	-24 12.6	1.651	2.652	4.5	20.4
6 10	17 11.74	+ 3 31.6	1.575	2.524	10.4	21.3	6 10	17 11.75	-24 0.9	1.621	2.636	0.4	20.0
6 20	17 1.72	+ 4 40.9	1.586	2.512	12.0	21.3	6 20	17 0.98	-23 45.1	1.618	2.620	4.8	20.3
6 30	16 52.76	+ 5 21.2	1.619	2.499	14.6	21.5	6 30	16 51.28	-23 27.2	1.642	2.603	9.2	20.6
7 10	16 45.75	+ 5 33.3	1.673	2.486	17.2	21.6	7 10	16 43.65	-23 10.1	1.690	2.586	13.2	20.8
481076	2005 <i>SV</i> ₁₉		6 9.7 286°72	5°6/10.5	18		59158	1998 <i>YQ</i> ₄		6 9.7 82°23	10°9/ 6.2	18	
5 1	17 41.93	-37 48.2	2.287	3.062	14.0	21.5	5 1	17 46.03	- 5 22.6	1.428	2.230	19.7	19.0
5 11	17 37.86	-38 33.0	2.178	3.039	11.8	21.3	5 11	17 40.69	- 2 50.6	1.384	2.258	16.5	18.9
5 21	17 31.10	-39 10.3	2.089	3.017	9.2	21.1	5 21	17 32.55	- 0 28.7	1.361	2.286	13.4	18.7
5 31	17 22.09	-39 35.5	2.024	2.995	6.8	20.9	5 31	17 22.50	+ 1 33.1	1.361	2.313	11.3	18.7
6 10	17 11.72	-39 45.1	1.985	2.972	5.7	20.8	6 10	17 11.76	+ 3 6.6	1.386	2.340	11.0	18.7
6 20	17 1.10	-39 37.5	1.973	2.949	6.7	20.8	6 20	17 1.55	+ 4 7.2	1.434	2.367	12.6	18.9
6 30	16 51.43	-39 14.1	1.987	2.926	9.2	20.9	6 30	16 52.99	+ 4 34.9	1.505	2.393	15.0	19.1
7 10	16 43.77	-38 38.9	2.024	2.904	12.1	21.1	7 10	16 46.83	+ 4 33.5	1.595	2.418	17.5	19.3
294718	2008 <i>BM</i> ₃₁		6 9.7 91°06	0°5/ 9.5	17		119571	2001 <i>VJ</i> ₈₈		6 9.7 149°59	3°3/ 8.9	17	
5 1	17 38.43	-21 57.3	2.305	3.107	13.1	21.3	5 1	17 41.00	-14 17.6	2.357	3.149	13.1	20.6
5 11	17 34.20	-21 51.5	2.227	3.119	10.3	21.2	5 11	17 36.05	-13 46.6	2.277	3.159	10.5	20.5
5 21	17 27.95	-21 44.4	2.171	3.130	7.1	21.0	5 21	17 29.15	-13 18.1	2.219	3.169	7.5	20.3
5 31	17 20.23	-21 36.0	2.141	3.142	3.6	20.8	5 31	17 20.82	-12 53.7	2.187	3.178	4.6	20.1
6 10	17 11.81	-21 26.7	2.138	3.153	0.5	20.5	6 10	17 11.81	-12 34.8	2.183	3.187	3.3	20.0
6 20	17 3.50	-21 17.0	2.164	3.164	3.9	20.8	6 20	17 2.92	-12 22.8	2.208	3.195	5.2	20.2
6 30	16 56.13	-21 8.4	2.216	3.176	7.3	21.1	6 30	16 54.93	-12 18.5	2.260	3.202	8.1	20.4
7 10	16 50.35	-21 2.0	2.294	3.187	10.3	21.3	7 10	16 48.48	-12 22.3	2.336	3.208	11.0	20.6
245626	2005 <i>WE</i> ₂₀₈		6 9.7 145°93	0°4/ 9.8	17		476399	2008 <i>CR</i> ₁₉₆		6 9.7 40°20	0°6/ 9.5	16	
5 1	17 37.51	-24 45.3	2.610	3.407	11.9	20.8	5 1	17 37.65	-21 53.9	2.221	3.028	13.4	21.5
5 11	17 33.33	-24 40.8	2.522	3.410	9.4	20.6	5 11	17 33.77	-21 44.3	2.134	3.028	10.6	21.3
5 21	17 27.30	-24 33.7	2.456	3.413	6.5	20.4	5 21	17 27.79	-21 33.4	2.068	3.029	7.3	21.1
5 31	17 19.90	-24 23.3	2.416	3.416	3.3	20.2	5 31	17 20.22	-21 21.1	2.028	3.029	3.7	20.9
6 10	17 11.82	-24 9.8	2.404	3.419	0.4	20.0	6 10	17 11.83	-21 7.8	2.015	3.030	0.6	20.6
6 20	17 3.79	-23 54.0	2.420	3.421	3.5	20.2	6 20	17 3.49	-20 54.6	2.030	3.031	4.1	20.9
6 30	16 56.57	-23 37.1	2.465	3.424	6.6	20.4	6 30	16 56.07	-20 42.7	2.071	3.031	7.7	21.1
7 10	16 50.78	-23 21.1	2.535	3.426	9.5	20.6	7 10	16 50.27	-20 33.8	2.137	3.032	10.9	21.3
488289	2016 <i>UA</i> ₁₅		6 9.7 232°45	0°5/ 9.5	18		310293	2011 <i>UR</i> ₈₂		6 9.7 207°20	1°3/ 10.0	18	
5 1	17 37.64	-21 43.6	2.750	3.545	11.4	22.4	5 1	17 38.98	-27 43.1	2.735	3.523	11.6	21.8
5 11	17 33.40	-21 37.4	2.647	3.535	9.0	22.3	5 11	17 34.51	-27 46.1	2.637	3.519	9.3	21.7
5 21	17 27.36	-21 30.1	2.567	3.524	6.3	22.1	5 21	17 28.15	-27 45.0	2.561	3.514	6.5	21.5
5 31	17 19.96	-21 21.6	2.513	3.513	3.2	21.8	5 31	17 20.37	-27 38.9	2.512	3.509	3.5	21.3
6 10	17 11.82	-21 12.1	2.487	3.502	0.5	21.6	6 10	17 11.83	-27 27.3	2.491	3.504	1.3	21.1
6 20	17 3.63	-21 2.3	2.490	3.490	3.5	21.8	6 20	17 3.30	-27 10.7	2.498	3.498	3.5	21.2
6 30	16 56.13	-20 53.2	2.522	3.478	6.7	22.0	6 30	16 55.54	-26 50.6	2.534	3.492	6.6	21.4
7 10	16 49.93	-20 46.0	2.579	3.466	9.5	22.2	7 10	16 49.20	-26 29.0	2.596	3.486	9.4	21.6
362340	2010 <i>LV</i> ₆₃		6 9.7 345°85	3°9/ 8.9	17		498366	2007 <i>VV</i> ₃₂₄		6 9.7 236°42	1°6/ 9.4	17	
5 1	17 28.93	-19 3.6	0.948	1.826	21.7	19.8	5 1	17 43.52	-19 27.0	1.892	2.696	15.4	22.8
5 11	17 29.40	-18 18.6	0.876	1.811	17.5	19.5	5 11	17 39.02	-19 18.2	1.789	2.681	12.4	22.5
5 21	17 26.18	-17 30.9	0.821	1.799	12.4	19.2	5 21	17 31.83	-19 9.7	1.707	2.666	8.7	22.3
5 31	17 19.88	-16 44.4	0.784	1.788	7.0	18.8	5 31	17 22.45	-19 1.6	1.650	2.650	4.6	22.0
6 10	17 11.81	-16 3.8	0.767	1.779	4.0	18.6	6 10	17 11.77	-18 54.3	1.619	2.633	1.6	21.8
6 20	17 3.66	-15 33.7	0.769	1.772	8.2	18.8	6 20	17 0.89	-18 48.6	1.616	2.615	5.2	22.0
6 30	16 57.21	-15 18.2	0.791	1.767	13.9	19.1	6 30	16 51.02	-18 45.9	1.640	2.597	9.5	22.2
7 10	16 53.81	-15 18.6	0.830	1.764	19.1	19.4	7 10	16 43.14	-18 47.6	1.687	2.578	13.5	22.4
273650	2007 <i>DP</i> ₇₅		6 9.7 203°27	0°6/ 9.8	17		475785	2006 <i>XV</i> ₁₅		6 9.7 171°34	0°2/ 9.6	18	
5 1	17 41.76	-24 28.5	1.944	2.750	15.0	21.6	5 1	17 38.14	-22 47.5	2.834	3.625	11.2	22.7
5 11	17 37.47	-24 33.7	1.854	2.748	12.0	21.4	5 11	17 33.65	-22 43.1	2.742	3.628	8.8	22.5
5 21	17 30.60	-24 36.5	1.786	2.745	8.4	21.1	5 21	17 27.45	-22 37.1	2.674	3.630	6.1	22.3
5 31	17 21.72	-24 35.6	1.741	2.742	4.3	20.9	5 31	17 19.98	-22 29.3	2.632	3.632	3.1	22.1
6 10	17 11.76	-24 30.4	1.724	2.739	0.6	20.6	6 10	17 11.86	-22 19.8	2.619	3.634	0.2	21.9
6 20	17 1.78	-24 21.2	1.733	2.735	4.5	20.9	6 20	17 3.79	-22 9.3	2.635	3.635	3.3	22.1
6 30	16 52.90	-24 9.9	1.770	2.731	8.6	21.1	6 30	16 56.44	-21 58.7	2.679	3.636	6.3	22.3
7 10	16 46.02	-23 58.7	1.830	2.727	12.3	21.3	7 10	16 50.40	-21 49.5	2.749	3.637	9.0	22.5
428339	2007 <i>JL</i> ₂		6 9.7 20°55	1°4/ 9.7	17		507859	2014 <i>HP</i> ₁₅₀		6 9.7 119°57	3°8/ 10.4	17	
5 1	17 40.55	-16 25.6	1.491	2.317	17.9	20.2	5 1	17 42.66	-33 46.0	2.446	3.224	13.1	22.1
5 11	17 37.12	-17 6.7	1.417	2.321	14.3	20.0	5 11	17 37.72	-34 20.0	2.367	3.236	10.6	22.0
5 21	17 30.70	-17 55.7	1.362	2.326	10.0	19.8	5 21	17 30.51	-34 47.4	2.309	3.248	7.9	21.8
5 31	17 21.88	-18 51.2	1.330	2.332	5.2	19.5	5 31	17 21.59	-35 5.3	2.276	3.259	5.2	21.7
6 10	17 11.75	-19 50.7	1.324	2.338	1.4	19.2	6 10	17 11.81	-35 11.6	2.271	3.270	3.8	21.6
6 20	17 1.61	-20 51.1	1.343	2.345	5.4	19.5	6 20	17 2.11	-35 6.2	2.294	3.281	5.0	21.7
6 30	16 52.79	-21 50.4	1.387	2.352	10.1	19.8	6 30	16 53.45	-34 50.7	2.344	3.292	7.6	21.9
7 10	16 46.35	-22 47.5	1.453	2.360	14.3	20.1	7 10	16 46.58	-34 28.3	2.419	3.302	10.2	22.1
263739	2008 <i>JO</i> ₉		6 9.7 203°27	3°7/ 8.8	18		158154	2001 <i>NY</i>					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
373539	2001 TV ₁₉₅		6 9.7 200°30	0°7/ 9.6	17		71417	2000 AE ₁₈₈		6 9.7 222°39	4°0/ 8.9	18	
5 1	17 43.17	-19 25.6	2.142	2.939	14.1	21.3	5 1	17 39.85	-9 53.3	2.729	3.508	11.9	20.3
5 11	17 38.32	-19 47.4	2.048	2.936	11.3	21.1	5 11	17 35.08	-9 35.8	2.624	3.495	9.7	20.1
5 21	17 31.09	-20 11.6	1.975	2.932	7.8	20.9	5 21	17 28.52	-9 23.2	2.542	3.482	7.2	20.0
5 31	17 21.98	-20 37.4	1.928	2.928	4.0	20.6	5 31	17 20.60	-9 17.2	2.486	3.468	4.9	19.8
6 10	17 11.80	-21 3.5	1.908	2.923	0.7	20.4	6 10	17 11.90	-9 18.9	2.458	3.453	4.0	19.7
6 20	17 1.52	-21 29.1	1.917	2.918	4.3	20.6	6 20	17 3.11	-9 29.0	2.459	3.437	5.4	19.8
6 30	16 52.16	-21 54.0	1.954	2.912	8.2	20.8	6 30	16 54.95	-9 47.8	2.488	3.421	7.9	19.9
7 10	16 44.57	-22 18.8	2.016	2.905	11.7	21.1	7 10	16 48.05	-10 14.5	2.543	3.404	10.5	20.1
523799	2017 DO ₃₆		6 9.7 271°89	29°1/ 1.0	18 C		24978	1998 HJ ₁₅₁		6 9.7 68°20	0°0/ 9.8	07 C	
5 1	18 14.43	+59 40.1	1.755	2.071	29.1	21.8	5 1	17 15.28	-24 12.6	42.137	42.924	0.8	23.9
5 11	18 7.43	+61 53.3	1.713	2.034	29.7	21.7	5 11	17 14.61	-24 12.1	42.041	42.926	0.7	23.9
5 21	17 53.93	+63 31.3	1.669	1.996	30.4	21.6	5 21	17 13.84	-24 11.5	41.971	42.927	0.4	23.9
5 31	17 34.47	+64 20.6	1.622	1.956	31.2	21.5	5 31	17 13.02	-24 10.7	41.928	42.928	0.2	23.8
6 10	17 11.35	+64 8.5	1.574	1.915	32.0	21.5	6 10	17 12.17	-24 9.9	41.914	42.929	0.0	23.8
6 20	16 48.09	+62 46.2	1.523	1.871	32.8	21.4	6 20	17 11.32	-24 9.0	41.929	42.931	0.2	23.8
6 30	16 28.26	+60 11.0	1.471	1.827	33.8	21.3	6 30	17 10.51	-24 8.0	41.973	42.932	0.5	23.9
7 10	16 14.06	+56 26.1	1.421	1.780	34.8	21.2	7 10	17 9.75	-24 7.1	42.044	42.933	0.7	23.9
349482	2008 DV ₇₃		6 9.7 93°19	1°0/ 9.9	17		233282	2006 AP ₇₉		6 9.7 49°61	2°3/ 10.4	17	
5 1	17 39.56	-26 27.7	2.403	3.199	12.8	21.8	5 1	17 42.99	-31 24.0	1.533	2.347	18.0	19.9
5 11	17 35.05	-26 30.6	2.328	3.215	10.1	21.6	5 11	17 38.82	-30 57.6	1.472	2.367	14.4	19.7
5 21	17 28.52	-26 30.0	2.274	3.230	7.0	21.5	5 21	17 31.59	-30 19.9	1.430	2.388	10.2	19.5
5 31	17 20.53	-26 24.7	2.246	3.245	3.7	21.3	5 31	17 22.17	-29 30.0	1.411	2.409	5.7	19.3
6 10	17 11.86	-26 14.6	2.246	3.260	1.0	21.1	6 10	17 11.87	-28 29.1	1.417	2.430	2.3	19.1
6 20	17 3.33	-26 0.3	2.274	3.275	3.7	21.3	6 20	17 2.07	-27 21.0	1.450	2.452	5.2	19.4
6 30	16 55.77	-25 43.5	2.330	3.290	6.9	21.5	6 30	16 53.99	-26 11.5	1.507	2.473	9.4	19.7
7 10	16 49.82	-25 26.3	2.411	3.304	9.9	21.7	7 10	16 48.45	-25 6.2	1.588	2.495	13.2	20.0
25487	1999 XU ₈₂		6 9.7 111°72	0°5/ 9.8	18		518176	2016 LG ₅₈		6 9.7 333°04	0°2/ 9.6	17	
5 1	17 40.96	-26 4.7	2.078	2.880	14.3	18.5	5 1	17 39.68	-24 50.3	1.814	2.629	15.6	21.4
5 11	17 36.48	-25 46.3	1.998	2.889	11.4	18.3	5 11	17 35.93	-24 21.6	1.729	2.627	12.4	21.2
5 21	17 29.68	-25 22.9	1.940	2.898	7.9	18.1	5 21	17 29.58	-23 47.4	1.664	2.626	8.6	21.0
5 31	17 21.16	-24 54.1	1.906	2.907	4.0	17.9	5 31	17 21.24	-23 8.0	1.623	2.624	4.4	20.7
6 10	17 11.85	-24 20.6	1.900	2.915	0.5	17.6	6 10	17 11.90	-22 24.5	1.608	2.623	0.3	20.4
6 20	17 2.70	-23 44.1	1.922	2.924	4.1	17.9	6 20	17 2.65	-21 39.6	1.620	2.622	4.7	20.7
6 30	16 54.69	-23 7.3	1.971	2.932	7.9	18.2	6 30	16 54.61	-20 56.6	1.658	2.621	9.0	21.0
7 10	16 48.55	-22 33.3	2.045	2.940	11.3	18.4	7 10	16 48.62	-20 18.8	1.719	2.620	12.8	21.2
423521	2005 UA ₉₈		6 9.7 111°43	4°7/ 8.4	17		85780	1998 VK ₂		6 9.7 247°44	1°3/ 9.9	18	
5 1	17 41.46	-12 14.2	2.083	2.879	14.5	22.3	5 1	17 40.79	-26 27.6	2.286	3.082	13.4	20.6
5 11	17 36.52	-11 17.8	2.016	2.899	11.7	22.1	5 11	17 36.48	-26 39.9	2.182	3.069	10.7	20.4
5 21	17 29.50	-10 24.8	1.972	2.918	8.6	22.0	5 21	17 29.86	-26 49.2	2.099	3.055	7.6	20.2
5 31	17 21.00	-9 38.4	1.952	2.937	5.8	21.9	5 31	17 21.41	-26 54.0	2.042	3.041	4.1	19.9
6 10	17 11.86	-9 1.4	1.960	2.955	4.8	21.8	6 10	17 11.90	-26 53.2	2.012	3.026	1.3	19.7
6 20	17 2.95	-8 35.7	1.995	2.973	6.5	22.0	6 20	17 2.26	-26 46.7	2.011	3.011	4.2	19.9
6 30	16 55.11	-8 22.5	2.057	2.990	9.3	22.2	6 30	16 53.48	-26 35.9	2.036	2.996	7.8	20.1
7 10	16 49.00	-8 21.6	2.142	3.007	12.1	22.4	7 10	16 46.41	-26 23.0	2.087	2.980	11.2	20.3
253789	2003 WQ ₁₇₁		6 9.7 253°08	5°5/ 8.3	18		394319	2006 WM ₈₇		6 9.7 106°28	2°2/ 9.1	18	
5 1	17 40.16	-12 42.3	1.689	2.503	16.6	21.1	5 1	17 38.00	-16 40.7	2.607	3.402	11.9	22.0
5 11	17 36.47	-11 46.0	1.598	2.491	13.6	20.9	5 11	17 33.51	-16 17.8	2.533	3.420	9.4	21.8
5 21	17 30.09	-10 52.0	1.526	2.479	10.1	20.6	5 21	17 27.31	-15 56.1	2.483	3.437	6.6	21.7
5 31	17 21.56	-10 4.1	1.478	2.466	6.8	20.4	5 31	17 19.91	-15 36.7	2.458	3.454	3.8	21.5
6 10	17 11.83	-9 26.0	1.455	2.453	5.6	20.3	6 10	17 11.96	-15 20.7	2.461	3.470	2.2	21.4
6 20	17 2.01	-9 1.1	1.457	2.440	7.9	20.4	6 20	17 4.14	-15 9.0	2.493	3.486	4.2	21.6
6 30	16 53.27	-8 51.3	1.484	2.426	11.6	20.6	6 30	16 57.15	-15 2.4	2.553	3.502	7.0	21.8
7 10	16 46.59	-8 57.0	1.533	2.412	15.2	20.8	7 10	16 51.51	-15 1.5	2.638	3.518	9.6	22.0
239478	2007 UJ ₂₉		6 9.7 282°91	0°8/ 9.8	17		432587	2010 RY ₈₈		6 9.7 297°15	2°1/ 9.9	18	
5 1	17 39.19	-25 26.6	1.989	2.798	14.6	20.9	5 1	17 40.82	-26 6.2	1.446	2.274	18.2	20.9
5 11	17 35.47	-25 30.3	1.895	2.790	11.7	20.7	5 11	17 38.25	-26 30.8	1.340	2.245	14.9	20.6
5 21	17 29.26	-25 30.7	1.821	2.781	8.2	20.5	5 21	17 32.21	-26 53.9	1.252	2.216	10.7	20.3
5 31	17 21.10	-25 26.7	1.772	2.773	4.3	20.2	5 31	17 23.06	-27 12.5	1.186	2.187	5.8	19.9
6 10	17 11.85	-25 17.8	1.750	2.764	0.9	20.0	6 10	17 11.84	-27 23.7	1.144	2.158	2.1	19.6
6 20	17 2.55	-25 4.4	1.754	2.756	4.4	20.2	6 20	17 0.01	-27 25.7	1.126	2.128	6.2	19.8
6 30	16 54.27	-24 48.5	1.784	2.747	8.4	20.4	6 30	16 49.33	-27 19.9	1.132	2.099	11.6	20.0
7 10	16 47.89	-24 32.4	1.839	2.739	12.1	20.6	7 10	16 41.33	-27 9.9	1.158	2.071	16.7	20.2
125029	2001 TF ₁₉₁		6 9.7 26°27	2°3/ 10.0	18		381803	2009 UM ₁₀₈		6 9.7 195°10	1°4/ 9.4	17	
5 1	17 40.57	-27 47.2	1.172	2.015	20.7	18.6	5 1	17 41.11	-20 18.5	2.103	2.906	14.2	22.7
5 11	17 38.10	-27 57.5	1.107	2.019	16.6	18.3	5 11	17 36.64	-19 58.8	2.013	2.904	11.3	22.5
5 21	17 31.85	-28 1.0	1.058	2.025	11.8	18.1	5 21	17 29.88	-19 38.0	1.943	2.902	7.8	22.3
5 31	17 22.59	-27 55.1	1.030	2.031	6.4	17.8	5 31	17 21.36	-19 16.6	1.899	2.899	4.1	22.1
6 10	17 11.80	-27 38.2	1.024	2.038	2.3	17.6	6 10	17 11.92	-18 55.5	1.883	2.896	1.4	21.9
6 20	17 1.23	-27 11.8	1.042	2.045	6.3	17.8	6 20	17 2.50	-18 36.1	1.894	2.893	4.6	22.1
6 30	16 52.57	-26 40.1	1.082	2.053	11.5	18.1	6 30	16 54.07	-18 20.1	1.932	2.889	8.4	22.3
7 10	16 47.02	-26 8.4	1.142	2.062	16.2	18.4	7 10	16 47.41	-18 9.1	1.995	2.884	11.8	22.5
297166	2010 VY ₅₇		6 9.7 201°32	1°0/ 9.5	17		239926	2000 UB ₄₆		6 9.7 285°36	3°9/ 9.9	18	
5 1	17 42.93	-2											

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
160235	2002 <i>JP</i> ₃₇		6 9.7 309°02	1.8°/ 9.1 18			271795	2004 <i>TP</i> ₅₆		6 9.7 161°53	4.9°/ 8.4 17		
5 1	17 37.71	-22 58.4	1.634	2.460	16.6	19.2	5 1	17 39.33	-11 48.6	2.071	2.872	14.4	21.0
5 11	17 35.03	-22 6.5	1.523	2.428	13.4	18.9	5 11	17 35.09	-10 55.4	1.990	2.875	11.7	20.8
5 21	17 29.43	-21 6.3	1.431	2.397	9.4	18.6	5 21	17 28.71	-10 5.6	1.931	2.878	8.7	20.6
5 31	17 21.41	-19 59.0	1.364	2.366	5.0	18.3	5 31	17 20.75	-9 22.2	1.896	2.881	5.9	20.5
6 10	17 11.91	-18 47.2	1.321	2.335	1.8	18.0	6 10	17 11.99	-8 48.1	1.889	2.883	5.0	20.4
6 20	17 2.13	-17 35.3	1.304	2.304	6.0	18.2	6 20	17 3.31	-8 25.5	1.908	2.886	6.7	20.5
6 30	16 53.41	-16 28.7	1.312	2.274	10.9	18.4	6 30	16 55.59	-8 15.7	1.953	2.887	9.6	20.7
7 10	16 46.88	-15 32.5	1.342	2.244	15.5	18.5	7 10	16 49.55	-8 18.6	2.021	2.889	12.6	20.9
40560	1999 <i>RQ</i> ₁₁₈		6 9.7 235°56	1.3°/ 9.4 18			435180	2007 <i>RS</i> ₁₀		6 9.7 274°62	2.0°/ 10.2 18		
5 1	17 39.96	-21 0.7	2.057	2.863	14.3	19.3	5 1	17 41.04	-29 6.5	2.101	2.900	14.3	21.2
5 11	17 35.87	-20 39.5	1.962	2.856	11.4	19.0	5 11	17 37.03	-29 9.0	1.991	2.878	11.6	21.0
5 21	17 29.43	-20 16.4	1.888	2.848	7.9	18.8	5 21	17 30.47	-29 5.7	1.902	2.857	8.3	20.8
5 31	17 21.17	-19 52.1	1.839	2.840	4.1	18.6	5 31	17 21.82	-28 54.6	1.838	2.835	4.7	20.5
6 10	17 11.93	-19 27.4	1.817	2.831	1.3	18.3	6 10	17 11.95	-28 34.5	1.800	2.812	2.0	20.3
6 20	17 2.66	-19 3.8	1.823	2.822	4.6	18.6	6 20	17 1.91	-28 6.1	1.790	2.790	4.6	20.4
6 30	16 54.37	-18 43.5	1.855	2.813	8.5	18.8	6 30	16 52.81	-27 31.6	1.806	2.767	8.5	20.6
7 10	16 47.86	-18 28.2	1.911	2.804	12.1	19.0	7 10	16 45.63	-26 54.8	1.847	2.744	12.2	20.8
468585	2007 <i>LH</i> ₂₆		6 9.7 350°21	0.2°/ 9.8 18			353171	2009 <i>LU</i>		6 9.7 34°05	3.4°/ 8.7 17		
5 1	17 40.21	-26 16.6	1.850	2.661	15.5	20.7	5 1	17 37.09	-18 13.5	1.676	2.502	16.2	20.1
5 11	17 36.30	-25 45.9	1.764	2.661	12.3	20.5	5 11	17 33.70	-17 12.5	1.615	2.519	12.8	19.9
5 21	17 29.81	-25 8.6	1.699	2.660	8.6	20.3	5 21	17 27.88	-16 10.9	1.575	2.537	9.0	19.7
5 31	17 21.36	-24 24.5	1.659	2.660	4.4	20.0	5 31	17 20.31	-15 11.7	1.558	2.556	5.2	19.5
6 10	17 11.93	-23 35.0	1.644	2.659	0.3	19.7	6 10	17 12.01	-14 18.5	1.567	2.575	3.4	19.5
6 20	17 2.63	-22 42.8	1.657	2.659	4.6	20.0	6 20	17 4.01	-13 34.3	1.602	2.595	6.0	19.7
6 30	16 54.54	-21 51.6	1.696	2.659	8.8	20.3	6 30	16 57.28	-13 1.7	1.662	2.616	9.7	19.9
7 10	16 48.51	-21 5.3	1.759	2.659	12.5	20.5	7 10	16 52.52	-12 41.7	1.744	2.637	13.0	20.2
185758	1999 <i>TE</i> ₁₈		6 9.7 251°43	4.5°/ 8.2 18			126391	2002 <i>BW</i> ₂		6 9.7 203°39	3.6°/ 9.8 18		
5 1	17 36.08	-9 7.3	2.817	3.602	11.4	20.7	5 1	17 45.44	-29 26.6	2.015	2.808	15.0	19.9
5 11	17 32.08	-8 25.9	2.712	3.584	9.4	20.6	5 11	17 40.67	-30 27.3	1.924	2.805	12.2	19.7
5 21	17 26.45	-7 48.1	2.629	3.567	7.2	20.4	5 21	17 33.09	-31 26.1	1.854	2.802	8.9	19.5
5 31	17 19.56	-7 16.5	2.572	3.548	5.2	20.2	5 31	17 23.19	-32 18.6	1.809	2.799	5.5	19.3
6 10	17 11.99	-6 53.0	2.543	3.530	4.6	20.2	6 10	17 11.92	-33 0.7	1.790	2.796	3.6	19.1
6 20	17 4.34	-6 39.3	2.542	3.511	5.9	20.2	6 20	17 0.46	-33 30.1	1.800	2.792	5.6	19.3
6 30	16 57.28	-6 36.2	2.568	3.492	8.1	20.3	6 30	16 50.08	-33 47.0	1.836	2.788	9.1	19.5
7 10	16 51.37	-6 43.7	2.618	3.472	10.5	20.5	7 10	16 41.81	-33 54.1	1.897	2.784	12.4	19.7
9139	Barrylasker		6 9.7 275°13	0.5°/ 9.6 18			470859	2008 <i>YV</i> ₁₀₆		6 9.7 208°31	4.6°/ 11.1 18		
5 1	17 41.86	-21 52.8	1.711	2.526	16.4	18.9	5 1	17 45.23	-38 41.4	2.683	3.438	12.6	22.4
5 11	17 38.24	-21 51.7	1.604	2.502	13.2	18.6	5 11	17 39.78	-38 56.9	2.581	3.431	10.5	22.2
5 21	17 31.65	-21 49.8	1.516	2.478	9.3	18.3	5 21	17 32.00	-39 2.7	2.501	3.424	8.1	22.0
5 31	17 22.56	-21 46.4	1.451	2.453	4.8	18.0	5 31	17 22.44	-38 55.7	2.446	3.416	5.9	21.9
6 10	17 11.89	-21 41.3	1.412	2.427	0.6	17.6	6 10	17 11.96	-38 34.1	2.419	3.408	4.6	21.8
6 20	17 0.86	-21 34.7	1.400	2.402	5.3	17.9	6 20	17 1.50	-37 58.2	2.420	3.399	5.4	21.8
6 30	16 50.83	-21 28.3	1.413	2.376	10.2	18.1	6 30	16 52.06	-37 10.4	2.449	3.389	7.7	21.9
7 10	16 43.00	-21 24.4	1.448	2.349	14.7	18.3	7 10	16 44.43	-36 14.8	2.503	3.379	10.2	22.1
250133	2002 <i>LS</i> ₇		6 9.7 20°35	3.5°/ 9.0 17			290129	Rátzlászóló		6 9.7 231°98	4.4°/ 8.5 18		
5 1	17 35.93	-19 20.7	1.081	1.939	21.0	19.8	5 1	17 36.64	-9 4.2	2.807	3.590	11.5	22.0
5 11	17 34.24	-18 31.6	1.023	1.946	16.7	19.6	5 11	17 32.50	-8 30.9	2.706	3.578	9.4	21.9
5 21	17 29.03	-17 41.2	0.982	1.954	11.7	19.3	5 21	17 26.74	-8 1.9	2.628	3.566	7.1	21.7
5 31	17 21.13	-16 52.7	0.961	1.963	6.4	19.1	5 31	17 19.73	-7 39.4	2.576	3.553	5.1	21.5
6 10	17 11.94	-16 10.2	0.962	1.974	3.5	18.9	6 10	17 12.05	-7 25.2	2.551	3.540	4.4	21.5
6 20	17 3.06	-15 37.6	0.985	1.985	7.4	19.2	6 20	17 4.31	-7 20.5	2.555	3.526	5.7	21.5
6 30	16 55.98	-15 17.9	1.030	1.998	12.4	19.5	6 30	16 57.18	-7 25.8	2.586	3.512	8.0	21.7
7 10	16 51.73	-15 12.0	1.094	2.012	16.9	19.8	7 10	16 51.23	-7 40.8	2.641	3.498	10.3	21.8
171758	2000 <i>YZ</i> ₈₃		6 9.7 175°56	1.9°/ 9.3 17			384804	2012 <i>QL</i> ₃₄		6 9.7 274°07	1.3°/ 9.4 17		
5 1	17 43.48	-18 59.0	1.901	2.705	15.4	21.1	5 1	17 39.15	-21 30.3	1.893	2.707	15.1	21.6
5 11	17 38.72	-18 41.7	1.815	2.707	12.3	20.9	5 11	17 35.48	-21 5.0	1.800	2.698	12.0	21.4
5 21	17 31.43	-18 24.6	1.751	2.709	8.6	20.7	5 21	17 29.31	-20 37.2	1.727	2.688	8.4	21.1
5 31	17 22.18	-18 8.3	1.711	2.711	4.6	20.4	5 31	17 21.19	-20 7.3	1.678	2.679	4.3	20.8
6 10	17 11.92	-17 53.6	1.699	2.711	1.9	20.2	6 10	17 12.00	-19 36.8	1.656	2.670	1.3	20.6
6 20	17 1.71	-17 41.8	1.714	2.712	5.1	20.5	6 20	17 2.78	-19 7.4	1.660	2.660	4.9	20.8
6 30	16 52.63	-17 34.3	1.755	2.711	9.1	20.7	6 30	16 54.61	-18 41.7	1.691	2.651	9.0	21.1
7 10	16 45.54	-17 32.4	1.820	2.710	12.7	20.9	7 10	16 48.35	-18 21.9	1.745	2.641	12.8	21.3
134669	1999 <i>VC</i> ₁₈₆		6 9.7 227°07	0.6°/ 9.6 18 R			305517	2008 <i>FB</i> ₁₁		6 9.7 231°48	2.2°/ 9.3 18		
5 1	17 43.05	-21 29.3	1.931	2.736	15.2	21.0	5 1	17 37.53	-16 17.8	2.422	3.222	12.6	21.3
5 11	17 38.60	-21 27.4	1.833	2.726	12.1	20.7	5 11	17 33.53	-16 8.9	2.328	3.217	10.1	21.1
5 21	17 31.52	-21 24.9	1.756	2.715	8.5	20.5	5 21	17 27.60	-16 2.3	2.256	3.212	7.1	20.9
5 31	17 22.32	-21 21.1	1.703	2.704	4.3	20.2	5 31	17 20.21	-15 58.7	2.210	3.207	4.0	20.7
6 10	17 11.92	-21 16.0	1.677	2.692	0.7	19.9	6 10	17 12.03	-15 58.6	2.191	3.201	2.2	20.6
6 20	17 1.39	-21 10.1	1.679	2.680	4.7	20.2	6 20	17 3.82	-16 2.7	2.200	3.195	4.4	20.7
6 30	16 51.89	-21 4.7	1.707	2.667	9.0	20.4	6 30	16 56.37	-16 11.3	2.237	3.190	7.6	20.9
7 10	16 44.37	-21 1.7	1.759	2.653	12.9	20.6	7 10	16 50.36	-16 24.9	2.298	3.184	10.6	21.1
389694	2011 <i>QD</i> ₄₈		6 9.7 115°79	15.7°/ 13.7 17			286693	Kodaitis		6 9.7 140°29	5.3°/ 10.9 17		

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
105822	2000 SZ ₁₄₂		6 9.7 316°30	6°6/ 7.3	18		44325	1998 RU ₄₅		6 9.7 172°81	1°7/10.1	18	
5 1	17 34.74	-10 31.0	1.855	2.670	15.3	19.9	5 1	17 40.93	-27 51.9	2.066	2.867	14.4	19.3
5 11	17 31.99	-9 12.4	1.756	2.648	12.6	19.7	5 11	17 36.73	-27 58.5	1.978	2.868	11.5	19.1
5 21	17 26.93	-7 55.4	1.679	2.626	9.7	19.5	5 21	17 30.09	-28 0.3	1.912	2.868	8.2	18.9
5 31	17 20.01	-6 44.6	1.625	2.605	7.3	19.3	5 31	17 21.56	-27 55.7	1.871	2.869	4.4	18.6
6 10	17 12.05	-5 45.2	1.597	2.584	6.7	19.2	6 10	17 12.05	-27 43.9	1.856	2.869	1.7	18.4
6 20	17 3.95	-5 1.3	1.594	2.564	8.6	19.2	6 20	17 2.59	-27 25.5	1.869	2.869	4.4	18.6
6 30	16 56.74	-4 35.7	1.614	2.544	11.7	19.4	6 30	16 54.20	-27 2.6	1.908	2.869	8.1	18.9
7 10	16 51.26	-4 29.0	1.656	2.524	14.9	19.5	7 10	16 47.74	-26 38.3	1.972	2.869	11.5	19.1
344498	2002 QX ₁₁₄		6 9.7 261°44	1°5/ 9.3	17		475521	2006 SJ ₃₈₆		6 9.7 263°05	4°8/ 8.9	18	
5 1	17 38.62	-20 2.5	2.069	2.878	14.1	21.8	5 1	17 37.21	-9 7.2	2.278	3.073	13.5	21.9
5 11	17 34.81	-19 42.4	1.974	2.869	11.3	21.6	5 11	17 33.39	-8 44.7	2.184	3.063	11.0	21.7
5 21	17 28.72	-19 21.5	1.901	2.861	7.9	21.3	5 21	17 27.60	-8 28.5	2.111	3.053	8.3	21.5
5 31	17 20.85	-19 0.2	1.852	2.852	4.1	21.1	5 31	17 20.27	-8 20.8	2.062	3.043	5.8	21.4
6 10	17 12.03	-18 39.7	1.830	2.844	1.6	20.9	6 10	17 12.09	-8 23.5	2.040	3.033	4.8	21.3
6 20	17 3.17	-18 21.3	1.836	2.835	4.7	21.1	6 20	17 3.85	-8 37.1	2.045	3.023	6.4	21.3
6 30	16 55.24	-18 6.7	1.868	2.826	8.5	21.3	6 30	16 56.36	-9 1.8	2.076	3.013	9.1	21.5
7 10	16 49.04	-17 57.5	1.924	2.817	12.0	21.5	7 10	16 50.33	-9 36.4	2.131	3.003	11.9	21.7
268408	2005 UO ₂₈₃		6 9.7 181°88	2°2/ 9.3	17		84441	2002 TK ₂₃₅		6 9.7 169°21	1°7/10.2	18	
5 1	17 41.09	-18 1.9	2.047	2.850	14.5	21.9	5 1	17 45.27	-29 14.9	2.172	2.960	14.2	19.7
5 11	17 36.66	-17 42.5	1.959	2.851	11.5	21.7	5 11	17 39.95	-29 7.5	2.084	2.964	11.4	19.6
5 21	17 29.93	-17 23.9	1.894	2.851	8.1	21.5	5 21	17 32.18	-28 53.6	2.017	2.968	8.1	19.4
5 31	17 21.43	-17 6.8	1.853	2.851	4.4	21.3	5 31	17 22.56	-28 31.4	1.975	2.972	4.4	19.1
6 10	17 12.01	-16 52.4	1.839	2.851	2.2	21.1	6 10	17 12.03	-28 0.8	1.962	2.974	1.7	18.9
6 20	17 2.63	-16 41.7	1.853	2.850	5.0	21.3	6 20	17 1.63	-27 23.0	1.977	2.976	4.3	19.1
6 30	16 54.25	-16 36.1	1.894	2.848	8.6	21.6	6 30	16 52.39	-26 41.0	2.019	2.978	7.9	19.4
7 10	16 47.65	-16 36.5	1.958	2.846	12.0	21.8	7 10	16 45.10	-25 58.7	2.087	2.978	11.3	19.6
409383	2005 DQ ₁		6 9.7 173°09	1°1/ 9.9	17		115510	2003 UX ₃₅		6 9.7 213°57	0°6/ 9.6	18	
5 1	17 45.13	-26 3.2	1.872	2.673	15.7	22.1	5 1	17 41.61	-20 0.8	2.703	3.490	11.8	20.9
5 11	17 40.26	-26 6.9	1.786	2.676	12.6	21.8	5 11	17 36.64	-20 15.4	2.598	3.481	9.4	20.7
5 21	17 32.63	-26 6.7	1.721	2.679	8.8	21.6	5 21	17 29.74	-20 31.1	2.517	3.471	6.5	20.5
5 31	17 22.87	-26 0.9	1.681	2.680	4.6	21.4	5 31	17 21.33	-20 47.2	2.462	3.461	3.3	20.3
6 10	17 11.98	-25 48.6	1.667	2.682	1.1	21.1	6 10	17 12.07	-21 3.3	2.436	3.450	0.6	20.0
6 20	17 1.16	-25 30.5	1.681	2.682	4.7	21.4	6 20	17 2.70	-21 18.9	2.439	3.439	3.6	20.3
6 30	16 51.58	-25 9.1	1.721	2.682	8.9	21.6	6 30	16 54.01	-21 34.3	2.472	3.427	6.9	20.5
7 10	16 44.19	-24 47.5	1.786	2.682	12.6	21.8	7 10	16 46.70	-21 50.0	2.530	3.414	9.8	20.6
99362	2001 XN ₁₉₇		6 9.7 299°00	1°3/ 9.9	18		144657	2004 FO ₁₁₂		6 9.7 116°83	0°3/ 9.8	17	
5 1	17 39.92	-27 1.8	1.339	2.173	19.1	18.8	5 1	17 43.70	-24 11.8	1.797	2.604	16.0	21.4
5 11	17 37.66	-26 53.3	1.240	2.149	15.5	18.5	5 11	17 39.06	-24 8.7	1.723	2.617	12.7	21.2
5 21	17 31.82	-26 37.3	1.159	2.124	11.1	18.1	5 21	17 31.73	-24 2.6	1.669	2.629	8.8	21.0
5 31	17 22.88	-26 11.8	1.099	2.100	5.9	17.8	5 31	17 22.38	-23 52.7	1.640	2.640	4.5	20.8
6 10	17 11.98	-25 36.0	1.062	2.076	1.3	17.4	6 10	17 12.06	-23 38.7	1.637	2.652	0.3	20.5
6 20	17 0.72	-24 51.5	1.049	2.053	6.1	17.6	6 20	17 1.93	-23 21.8	1.661	2.663	4.6	20.8
6 30	16 50.84	-24 3.0	1.059	2.029	11.8	17.9	6 30	16 53.10	-23 4.1	1.711	2.673	8.8	21.1
7 10	16 43.81	-23 16.4	1.089	2.006	17.1	18.1	7 10	16 46.45	-22 48.3	1.785	2.683	12.5	21.3
277127	2005 GW ₁₁₉		6 9.7 213°59	3°1/ 9.3	16		97251	1999 XX ₁₀₇		6 9.7 226°62	0°2/ 9.7	18	
5 1	17 52.21	-18 42.0	1.186	2.009	21.7	21.6	5 1	17 41.05	-23 16.3	2.468	3.261	12.6	21.1
5 11	17 47.64	-18 15.8	1.099	2.001	17.6	21.3	5 11	17 36.41	-23 5.2	2.363	3.249	10.0	20.9
5 21	17 38.89	-17 49.6	1.029	1.991	12.6	21.0	5 21	17 29.68	-22 51.5	2.280	3.237	7.0	20.7
5 31	17 26.50	-17 24.3	0.980	1.980	6.9	20.7	5 31	17 21.33	-22 35.0	2.224	3.224	3.6	20.4
6 10	17 11.88	-17 1.2	0.955	1.968	3.1	20.4	6 10	17 12.10	-22 15.9	2.195	3.211	0.3	20.1
6 20	16 56.94	-16 42.6	0.954	1.953	7.8	20.6	6 20	17 2.79	-21 55.1	2.196	3.196	3.8	20.4
6 30	16 43.75	-16 31.8	0.977	1.937	13.9	20.9	6 30	16 54.29	-21 34.3	2.224	3.182	7.4	20.6
7 10	16 33.93	-16 31.5	1.019	1.920	19.4	21.1	7 10	16 47.33	-21 15.4	2.278	3.166	10.6	20.8
409872	2006 SY ₂₅₄		6 9.7 290°59	1°2/ 9.4	16		432349	2009 VH ₆₅		6 9.7 219°65	1°8/10.0	17	
5 1	17 33.64	-19 16.6	3.096	3.893	10.2	21.8	5 1	17 42.83	-27 33.8	2.056	2.854	14.6	22.7
5 11	17 30.08	-19 4.9	2.994	3.882	8.1	21.6	5 11	17 38.38	-27 47.4	1.960	2.847	11.7	22.4
5 21	17 25.03	-18 53.2	2.915	3.872	5.6	21.4	5 21	17 31.35	-27 57.0	1.886	2.840	8.3	22.2
5 31	17 18.87	-18 41.9	2.862	3.861	3.0	21.2	5 31	17 22.28	-28 0.6	1.836	2.833	4.6	22.0
6 10	17 12.12	-18 31.6	2.838	3.851	1.2	21.1	6 10	17 12.07	-27 56.8	1.813	2.825	1.8	21.8
6 20	17 5.34	-18 23.0	2.843	3.841	3.3	21.2	6 20	17 1.79	-27 45.6	1.817	2.817	4.6	21.9
6 30	16 59.12	-18 16.9	2.875	3.830	6.0	21.4	6 30	16 52.56	-27 28.8	1.849	2.809	8.4	22.2
7 10	16 53.98	-18 13.9	2.934	3.820	8.5	21.5	7 10	16 45.30	-27 9.4	1.904	2.800	12.0	22.4
86268	1999 TK ₂₆₉		6 9.7 193°55	2°5/10.5	18		144819	2004 JS ₅		6 9.7 143°99	2°1/ 9.5	18	
5 1	17 39.64	-31 52.2	2.600	3.384	12.3	20.1	5 1	17 39.31	-15 40.7	2.333	3.130	13.1	19.8
5 11	17 35.24	-31 58.0	2.507	3.383	9.9	19.9	5 11	17 34.97	-15 47.4	2.247	3.134	10.4	19.6
5 21	17 28.80	-31 57.5	2.436	3.382	7.2	19.7	5 21	17 28.63	-15 57.8	2.183	3.138	7.4	19.4
5 31	17 20.82	-31 48.9	2.390	3.381	4.3	19.5	5 31	17 20.77	-16 12.0	2.145	3.142	4.1	19.2
6 10	17 12.06	-31 31.5	2.372	3.379	2.6	19.4	6 10	17 12.12	-16 30.1	2.135	3.145	2.1	19.1
6 20	17 3.35	-31 5.8	2.382	3.378	4.1	19.5	6 20	17 3.48	-16 51.7	2.152	3.149	4.4	19.2
6 30	16 55.53	-30 33.8	2.420	3.376	6.9	19.7	6 30	16 55.67	-17 16.8	2.198	3.152	7.6	19.5
7 10	16 49.28	-29 58.6	2.483	3.374	9.7	19.9	7 10	16 49.37	-17 45.1	2.268	3.155	10.7	19.6
163959	2003 UF ₆₃		6 9.7 265°35	2°5/ 9.3	18		480139	2015 FE ₁₆₂		6 9.7 322°46	7°0/ 8.4	17	
5 1	17 39.01	-16 33.1	2.022	2.									

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
256691	2007 YS ₆₆		6 9.7 279°48	4°0/ 9.3 17			410722	2009 BO ₈₀		6 9.7 74°07	4°2/10.3 17		
5 1	17 40.90	-13 45.6	1.574	2.393	17.4	21.2	5 1	17 46.25	-30 45.5	1.378	2.195	19.5	20.9
5 11	17 37.57	-13 34.8	1.475	2.373	14.2	20.9	5 11	17 42.18	-31 24.7	1.315	2.211	15.7	20.7
5 21	17 31.28	-13 29.9	1.394	2.352	10.4	20.6	5 21	17 34.47	-31 56.8	1.271	2.226	11.4	20.5
5 31	17 22.46	-13 32.9	1.336	2.331	6.3	20.4	5 31	17 23.96	-32 16.9	1.249	2.242	6.9	20.2
6 10	17 12.07	-13 45.3	1.302	2.310	4.1	20.2	6 10	17 12.06	-32 21.6	1.250	2.258	4.2	20.1
6 20	17 1.33	-14 7.4	1.294	2.289	6.9	20.3	6 20	17 0.46	-32 10.8	1.276	2.273	6.6	20.3
6 30	16 51.62	-14 39.4	1.310	2.267	11.4	20.5	6 30	16 50.73	-31 48.0	1.326	2.289	10.8	20.6
7 10	16 44.13	-15 20.2	1.348	2.246	15.8	20.7	7 10	16 44.00	-31 18.9	1.398	2.304	14.8	20.9
74029	1998 HR ₁₉		6 9.7 342°23	6°2/10.4 18			58935	1998 ON ₁₄		6 9.7 210°66	1°0/ 9.6 18		
5 1	17 40.63	-33 42.1	1.292	2.119	20.0	18.8	5 1	17 42.93	-20 20.5	2.059	2.859	14.5	19.8
5 11	17 38.48	-34 34.6	1.214	2.113	16.5	18.5	5 11	17 38.29	-20 16.8	1.963	2.853	11.6	19.5
5 21	17 32.48	-35 18.9	1.154	2.107	12.5	18.3	5 21	17 31.21	-20 13.0	1.888	2.846	8.1	19.3
5 31	17 23.21	-35 48.6	1.114	2.102	8.5	18.0	5 31	17 22.20	-20 9.1	1.838	2.838	4.2	19.1
6 10	17 12.05	-35 58.5	1.096	2.098	6.2	17.9	6 10	17 12.11	-20 5.0	1.816	2.830	1.1	18.8
6 20	17 0.79	-35 46.7	1.101	2.094	8.2	18.0	6 20	17 1.96	-20 1.4	1.822	2.822	4.6	19.1
6 30	16 51.31	-35 16.6	1.129	2.091	12.2	18.2	6 30	16 52.77	-19 59.3	1.854	2.812	8.6	19.3
7 10	16 45.01	-34 35.1	1.176	2.089	16.4	18.4	7 10	16 45.43	-20 0.1	1.912	2.802	12.2	19.5
168847	2000 UU ₃₄		6 9.7 177°59	0°0/ 9.7 17			396228	2014 BO ₂		6 9.7 241°51	2°2/10.2 17		
5 1	17 44.85	-23 38.6	1.911	2.712	15.4	21.0	5 1	17 41.39	-29 8.5	2.068	2.866	14.5	21.8
5 11	17 39.94	-23 33.8	1.824	2.714	12.3	20.8	5 11	17 37.25	-29 16.8	1.973	2.860	11.7	21.6
5 21	17 32.38	-23 26.3	1.758	2.716	8.6	20.6	5 21	17 30.56	-29 19.6	1.899	2.852	8.3	21.3
5 31	17 22.77	-23 15.3	1.716	2.717	4.3	20.3	5 31	17 21.89	-29 14.9	1.849	2.845	4.7	21.1
6 10	17 12.08	-23 0.7	1.702	2.717	0.1	20.0	6 10	17 12.13	-29 1.5	1.826	2.838	2.2	20.9
6 20	17 1.44	-22 43.4	1.715	2.717	4.6	20.3	6 20	17 2.33	-28 39.9	1.830	2.830	4.6	21.1
6 30	16 51.98	-22 25.4	1.755	2.715	8.8	20.6	6 30	16 53.59	-28 12.3	1.861	2.822	8.3	21.3
7 10	16 44.60	-22 9.5	1.820	2.714	12.5	20.8	7 10	16 46.80	-27 42.3	1.916	2.814	11.8	21.5
195766	2002 PT ₁₂₂		6 9.7 202°40	1°2/10.1 18			511157	2013 YC ₄₀		6 9.7 241°85	2°7/ 9.2 17		
5 1	17 40.85	-27 43.7	2.286	3.081	13.4	20.0	5 1	17 41.17	-15 37.6	2.377	3.170	13.0	22.8
5 11	17 36.41	-27 36.0	2.193	3.079	10.7	19.8	5 11	17 36.59	-15 21.5	2.267	3.151	10.5	22.6
5 21	17 29.74	-27 23.0	2.121	3.076	7.5	19.6	5 21	17 29.90	-15 7.4	2.179	3.132	7.5	22.4
5 31	17 21.37	-27 3.6	2.075	3.073	4.0	19.4	5 31	17 21.52	-14 56.3	2.117	3.112	4.4	22.2
6 10	17 12.12	-26 37.9	2.056	3.070	1.2	19.2	6 10	17 12.15	-14 49.2	2.083	3.091	2.7	22.0
6 20	17 2.92	-26 6.9	2.065	3.066	4.0	19.4	6 20	17 2.61	-14 47.0	2.077	3.070	4.9	22.1
6 30	16 54.69	-25 33.0	2.102	3.062	7.5	19.6	6 30	16 53.80	-14 50.5	2.099	3.048	8.3	22.3
7 10	16 48.19	-24 59.2	2.164	3.058	10.8	19.8	7 10	16 46.48	-15 0.3	2.146	3.025	11.5	22.5
423862	2006 RR ₃		6 9.7 240°17	4°2/10.9 17			362983	2013 CQ ₅₉		6 9.7 96°30	4°2/ 8.9 17		
5 1	17 47.39	-35 17.9	2.009	2.788	15.5	21.6	5 1	17 37.12	-10 35.2	2.428	3.221	12.8	21.6
5 11	17 42.37	-35 23.4	1.902	2.772	12.8	21.4	5 11	17 33.02	-10 8.7	2.353	3.233	10.3	21.5
5 21	17 34.34	-35 18.4	1.816	2.756	9.6	21.1	5 21	17 27.14	-9 47.4	2.301	3.245	7.6	21.3
5 31	17 23.88	-34 58.9	1.754	2.738	6.3	20.9	5 31	17 19.98	-9 33.1	2.273	3.257	5.2	21.2
6 10	17 12.05	-34 22.8	1.718	2.720	4.2	20.7	6 10	17 12.20	-9 27.2	2.273	3.269	4.2	21.1
6 20	17 0.14	-33 30.7	1.709	2.702	5.8	20.8	6 20	17 4.52	-9 30.4	2.301	3.281	5.6	21.2
6 30	16 49.49	-32 26.4	1.728	2.682	9.3	20.9	6 30	16 57.66	-9 42.8	2.355	3.292	8.1	21.4
7 10	16 41.16	-31 16.0	1.771	2.662	12.9	21.1	7 10	16 52.18	-10 3.9	2.434	3.304	10.6	21.6
125026	2001 TZ ₁₈₈		6 9.7 47°84	2°6/ 9.1 17			268993	2007 ED ₁₀₁		6 9.7 139°09	0°6/ 9.6 17		
5 1	17 41.29	-21 17.9	1.282	2.119	19.6	19.3	5 1	17 42.97	-21 17.1	2.088	2.887	14.4	21.9
5 11	17 38.07	-20 23.1	1.214	2.125	15.6	19.0	5 11	17 38.10	-21 18.7	2.008	2.898	11.4	21.7
5 21	17 31.52	-19 23.8	1.164	2.131	10.9	18.8	5 21	17 30.90	-21 19.9	1.950	2.908	7.9	21.5
5 31	17 22.43	-18 22.3	1.136	2.137	5.8	18.5	5 31	17 21.96	-21 20.3	1.917	2.918	4.0	21.3
6 10	17 12.10	-17 22.6	1.131	2.144	2.7	18.3	6 10	17 12.15	-21 19.6	1.912	2.927	0.6	21.1
6 20	17 2.03	-16 29.3	1.151	2.151	6.7	18.6	6 20	17 2.43	-21 18.2	1.935	2.936	4.2	21.4
6 30	16 53.65	-15 46.7	1.195	2.158	11.6	18.9	6 30	16 53.79	-21 17.2	1.985	2.944	8.0	21.6
7 10	16 47.96	-15 17.6	1.259	2.165	16.0	19.1	7 10	16 46.98	-21 18.0	2.060	2.951	11.4	21.8
333824	2012 HM ₆₂		6 9.7 25°29	3°4/ 9.4 17			259132	2002 XT ₅₀		6 9.7 266°83	2°5/10.7 17		
5 1	17 37.66	-16 20.2	1.247	2.091	19.6	20.6	5 1	17 50.07	-34 38.4	1.209	2.026	21.7	20.3
5 11	17 35.22	-16 4.2	1.186	2.099	15.7	20.3	5 11	17 46.26	-33 37.4	1.113	2.009	18.0	20.0
5 21	17 29.58	-15 52.6	1.141	2.108	11.1	20.1	5 21	17 38.00	-32 11.6	1.034	1.992	13.1	19.6
5 31	17 21.46	-15 47.1	1.118	2.118	6.2	19.9	5 31	17 26.05	-30 16.9	0.977	1.974	7.5	19.3
6 10	17 12.13	-15 49.1	1.118	2.129	3.4	19.7	6 10	17 12.04	-27 53.9	0.943	1.956	2.5	18.9
6 20	17 2.98	-15 59.1	1.141	2.141	6.7	19.9	6 20	16 58.09	-25 11.3	0.934	1.938	6.8	19.1
6 30	16 55.41	-16 17.5	1.187	2.153	11.4	20.2	6 30	16 46.30	-22 24.2	0.951	1.919	13.1	19.4
7 10	16 50.43	-16 43.7	1.254	2.166	15.6	20.5	7 10	16 38.15	-19 48.5	0.989	1.900	18.9	19.6
370682	2004 ES ₉₈		6 9.7 110°93	4°9/10.5 17			251944	1999 XR ₂₃		6 9.7 260°44	0°8/ 9.6 18		
5 1	17 45.14	-33 22.7	1.685	2.485	17.2	21.4	5 1	17 39.27	-19 10.1	2.821	3.610	11.3	21.5
5 11	17 40.92	-34 4.9	1.608	2.491	14.1	21.2	5 11	17 34.83	-19 24.6	2.704	3.588	9.0	21.3
5 21	17 33.47	-34 39.5	1.550	2.496	10.5	21.0	5 21	17 28.55	-19 40.7	2.611	3.566	6.3	21.1
5 31	17 23.46	-35 1.7	1.515	2.501	6.9	20.8	5 31	17 20.81	-19 58.2	2.544	3.543	3.3	20.9
6 10	17 12.07	-35 7.8	1.504	2.506	4.9	20.7	6 10	17 12.19	-20 16.7	2.506	3.520	0.8	20.7
6 20	17 0.75	-34 57.3	1.520	2.511	6.6	20.8	6 20	17 3.38	-20 35.6	2.497	3.496	3.5	20.8
6 30	16 50.95	-34 32.8	1.561	2.516	10.1	21.0	6 30	16 55.13	-20 55.1	2.517	3.472	6.7	21.0
7 10	16 43.74	-33 59.7	1.624	2.521	13.6	21.2	7 10	16 48.11	-21 15.5	2.563	3.448	9.7	21.2
396344	2014 DQ ₆₉		6 9.7 9°95	5°6/ 8.8 16			305528	2008 FK ₁₂₃		6 9.7 123°99	6°8/ 6.9 18		
5 1	17 35.78	- 9											

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
266488	2008 <i>CF</i> ₂₀₁	6 9.7 185°41	3°9/10.4	17			205990	2002 <i>OE</i> ₁₂	6 9.8 221°35	3°9/11.5	18		
5 1	17 45.66	-32 27.6	1.876	2.668	16.0	21.5	5 1	17 47.11	-37 54.5	2.049	2.822	15.5	19.8
5 11	17 41.01	-32 56.1	1.789	2.668	13.0	21.3	5 11	17 41.71	-37 20.4	1.956	2.821	12.8	19.6
5 21	17 33.38	-33 17.5	1.722	2.668	9.6	21.0	5 21	17 33.53	-36 31.1	1.883	2.820	9.6	19.4
5 31	17 23.39	-33 28.0	1.679	2.668	6.1	20.8	5 31	17 23.31	-35 23.9	1.835	2.819	6.2	19.1
6 10	17 12.12	-33 24.8	1.662	2.666	3.9	20.7	6 10	17 12.19	-33 59.2	1.814	2.818	3.9	19.0
6 20	17 0.86	-33 7.8	1.671	2.665	5.8	20.8	6 20	17 1.39	-32 20.4	1.822	2.816	5.3	19.1
6 30	16 50.92	-32 39.4	1.707	2.663	9.3	21.0	6 30	16 52.07	-30 33.8	1.858	2.815	8.6	19.3
7 10	16 43.33	-32 4.4	1.767	2.660	12.8	21.2	7 10	16 45.05	-28 46.9	1.920	2.814	11.9	19.5
506539	2004 <i>XY</i> ₁₃	6 9.7 257°25	0°7/ 9.8	18			379984	2012 <i>TQ</i> ₁₄₅	6 9.8 27°47	0°5/ 9.9	18		
5 1	17 42.90	-24 14.7	2.336	3.127	13.2	22.1	5 1	17 31.18	-25 48.5	4.315	5.101	7.7	21.4
5 11	17 38.27	-24 29.3	2.218	3.103	10.6	21.9	5 11	17 27.76	-25 49.4	4.220	5.102	6.1	21.2
5 21	17 31.26	-24 42.8	2.123	3.078	7.5	21.6	5 21	17 23.26	-25 48.3	4.149	5.103	4.2	21.1
5 31	17 22.31	-24 53.7	2.053	3.052	3.9	21.3	5 31	17 17.99	-25 44.9	4.105	5.104	2.2	21.0
6 10	17 12.15	-25 0.8	2.011	3.026	0.7	21.0	6 10	17 12.33	-25 39.4	4.090	5.105	0.5	20.8
6 20	17 1.71	-25 3.8	1.998	2.999	4.1	21.3	6 20	17 6.69	-25 31.9	4.105	5.106	2.2	21.0
6 30	16 52.00	-25 3.3	2.013	2.971	8.0	21.4	6 30	17 1.47	-25 23.1	4.149	5.107	4.2	21.1
7 10	16 43.93	-25 1.3	2.053	2.942	11.5	21.6	7 10	16 57.04	-25 13.9	4.219	5.108	6.1	21.2
160300	2003 <i>FR</i> ₉₁	6 9.7 104°56	1°7/ 9.5	17			45977	2001 <i>BU</i> ₄₄	6 9.8 122°00	2°8/ 9.4	18		
5 1	17 43.31	-18 4.0	1.928	2.731	15.2	21.0	5 1	17 44.14	-15 49.4	1.819	2.623	16.0	19.4
5 11	17 38.41	-18 3.7	1.859	2.750	12.1	20.9	5 11	17 39.23	-15 39.9	1.748	2.638	12.8	19.2
5 21	17 31.11	-18 5.6	1.811	2.769	8.4	20.7	5 21	17 31.79	-15 34.0	1.697	2.653	9.0	19.0
5 31	17 22.06	-18 9.5	1.788	2.787	4.4	20.5	5 31	17 22.46	-15 32.4	1.670	2.667	5.1	18.8
6 10	17 12.17	-18 15.5	1.792	2.805	1.7	20.3	6 10	17 12.22	-15 35.7	1.670	2.680	2.8	18.6
6 20	17 2.47	-18 23.7	1.823	2.822	4.7	20.6	6 20	17 2.15	-15 44.2	1.698	2.693	5.5	18.8
6 30	16 53.95	-18 34.8	1.881	2.839	8.5	20.8	6 30	16 53.30	-15 58.3	1.752	2.706	9.2	19.1
7 10	16 47.37	-18 49.1	1.964	2.855	11.9	21.1	7 10	16 46.49	-16 18.0	1.829	2.718	12.7	19.3
433558	2013 <i>XE</i> ₁₉	6 9.7 235°97	2°4/ 9.9	17			146988	2002 <i>PN</i> ₄₁	6 9.8 274°60	3°7/ 9.1	18		
5 1	17 43.93	-27 0.5	2.100	2.895	14.4	21.0	5 1	17 41.02	-15 21.8	1.752	2.564	16.2	20.5
5 11	17 39.37	-27 46.5	2.001	2.886	11.6	20.8	5 11	17 37.41	-14 55.7	1.645	2.540	13.2	20.3
5 21	17 32.17	-28 31.7	1.923	2.876	8.3	20.6	5 21	17 31.04	-14 31.7	1.557	2.514	9.5	20.0
5 31	17 22.81	-29 12.8	1.870	2.866	4.7	20.4	5 31	17 22.35	-14 11.8	1.493	2.489	5.7	19.7
6 10	17 12.15	-29 46.9	1.845	2.855	2.4	20.2	6 10	17 12.22	-13 57.9	1.455	2.463	3.7	19.5
6 20	17 1.26	-30 12.1	1.847	2.845	4.9	20.3	6 20	17 1.76	-13 51.8	1.443	2.436	6.5	19.6
6 30	16 51.31	-30 28.5	1.877	2.833	8.6	20.5	6 30	16 52.21	-13 55.0	1.455	2.409	10.8	19.8
7 10	16 43.29	-30 38.2	1.931	2.822	12.0	20.7	7 10	16 44.67	-14 8.2	1.491	2.382	14.9	20.0
252971	2002 <i>PL</i> ₁₆₃	6 9.8 7°49	2°6/ 9.5	17			218439	2004 <i>RM</i> ₁₉₁	6 9.8 315°52	4°3/ 10.8	18		
5 1	17 36.21	-18 21.4	1.156	2.008	20.3	19.9	5 1	17 40.08	-35 38.8	2.323	3.105	13.6	19.8
5 11	17 34.51	-18 9.4	1.089	2.009	16.2	19.7	5 11	17 36.10	-36 2.9	2.230	3.101	11.2	19.6
5 21	17 29.38	-18 0.0	1.040	2.010	11.4	19.4	5 21	17 29.72	-36 18.8	2.159	3.096	8.5	19.4
5 31	17 21.51	-17 54.4	1.010	2.013	6.1	19.1	5 31	17 21.48	-36 23.5	2.112	3.092	5.8	19.2
6 10	17 12.20	-17 53.8	1.003	2.016	2.6	18.9	6 10	17 12.25	-36 15.2	2.091	3.088	4.3	19.1
6 20	17 2.98	-17 59.0	1.019	2.021	6.7	19.2	6 20	17 3.03	-35 53.7	2.097	3.084	5.5	19.2
6 30	16 55.38	-18 10.9	1.056	2.027	11.8	19.5	6 30	16 54.82	-35 21.3	2.130	3.081	8.1	19.4
7 10	16 50.55	-18 29.9	1.113	2.034	16.5	19.8	7 10	16 48.47	-34 41.7	2.187	3.077	10.9	19.5
469570	2003 <i>WO</i> ₂₉	6 9.8 187°42	3°0/ 10.3	18			41126	1999 <i>VQ</i> ₉₂	6 9.8 150°83	0°1/ 9.8	18		
5 1	17 43.06	-31 20.9	2.502	3.282	12.8	22.3	5 1	17 38.26	-23 38.4	2.858	3.649	11.1	20.6
5 11	17 38.14	-31 49.6	2.408	3.281	10.3	22.1	5 11	17 33.81	-23 36.3	2.770	3.655	8.8	20.4
5 21	17 30.97	-32 13.2	2.336	3.281	7.5	22.0	5 21	17 27.68	-23 32.4	2.706	3.661	6.1	20.3
5 31	17 22.05	-32 29.3	2.290	3.279	4.7	21.8	5 31	17 20.30	-23 26.1	2.667	3.667	3.1	20.1
6 10	17 12.20	-32 35.9	2.272	3.277	3.0	21.7	6 10	17 12.30	-23 17.7	2.657	3.673	0.1	19.8
6 20	17 2.30	-32 32.7	2.282	3.275	4.5	21.8	6 20	17 4.35	-23 7.6	2.677	3.678	3.2	20.1
6 30	16 53.32	-32 20.9	2.320	3.272	7.4	21.9	6 30	16 57.13	-22 56.9	2.724	3.683	6.2	20.3
7 10	16 46.03	-32 3.3	2.383	3.268	10.3	22.1	7 10	16 51.22	-22 47.0	2.798	3.687	8.8	20.5
45882	2000 <i>WX</i> ₆₁	6 9.8 61°03	1°6/ 10.1	18			314027	2004 <i>XJ</i> ₄₈	6 9.8 262°34	1°9/ 9.6	17		
5 1	17 44.10	-27 49.3	1.359	2.184	19.3	18.5	5 1	17 43.13	-17 55.1	1.615	2.430	17.2	21.0
5 11	17 40.18	-27 43.8	1.300	2.203	15.4	18.3	5 11	17 39.39	-18 0.4	1.514	2.413	13.9	20.7
5 21	17 32.88	-27 31.1	1.259	2.222	10.8	18.1	5 21	17 32.59	-18 9.3	1.433	2.394	9.8	20.4
5 31	17 23.08	-27 9.5	1.240	2.241	5.7	17.9	5 31	17 23.21	-18 21.9	1.376	2.376	5.3	20.1
6 10	17 12.18	-26 39.0	1.246	2.260	1.6	17.7	6 10	17 12.22	-18 38.0	1.343	2.357	1.9	19.8
6 20	17 1.71	-26 1.9	1.277	2.280	5.5	18.0	6 20	17 0.87	-18 57.2	1.337	2.337	5.8	20.0
6 30	16 53.07	-25 22.6	1.332	2.299	10.2	18.3	6 30	16 50.59	-19 19.6	1.355	2.317	10.7	20.3
7 10	16 47.21	-24 45.8	1.408	2.319	14.4	18.6	7 10	16 42.59	-19 45.8	1.397	2.297	15.1	20.5
480677	2015 <i>PZ</i> ₁₂	6 9.8 345°76	1°3/ 10.2	16			5114	<i>Yezo</i>	6 9.8 19°51	2°4/ 10.1	18		
5 1	17 38.29	-29 52.9	1.896	2.706	15.2	20.2	5 1	17 42.43	-27 47.3	1.624	2.439	17.1	17.3
5 11	17 34.90	-29 17.9	1.806	2.699	12.2	20.0	5 11	17 38.75	-28 12.1	1.543	2.440	13.8	17.1
5 21	17 28.95	-28 32.9	1.736	2.694	8.6	19.7	5 21	17 31.99	-28 32.9	1.481	2.440	9.8	16.8
5 31	17 21.07	-27 37.6	1.690	2.689	4.7	19.5	5 31	17 22.78	-28 46.7	1.443	2.440	5.5	16.6
6 10	17 12.23	-26 33.2	1.671	2.685	1.3	19.2	6 10	17 12.24	-28 51.4	1.429	2.441	2.4	16.4
6 20	17 3.51	-25 22.8	1.678	2.681	4.5	19.5	6 20	17 1.69	-28 46.4	1.441	2.442	5.4	16.6
6 30	16 55.98	-24 11.2	1.712	2.678	8.5	19.7	6 30	16 52.51	-28 34.0	1.478	2.442	9.7	16.8
7 10	16 50.47	-23 3.3	1.770	2.675	12.2	19.9	7 10	16 45.77	-28 17.7	1.538	2.443	13.7	17.1
143415	2003 <i>BF</i> ₅₁	6 9.8 78°36	0°7/ 9.6	17			50029	2000 <i>AU</i> ₄₆	6 9.8 250°31				

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
367066	2006 <i>OP</i> ₁₀		6 9.8 323°91	3°4/10.5	17		165231	2000 <i>SW</i> ₉₄		6 9.8 235°84	1°6/ 9.4	17	
5 1	17 34.46	-30 47.6	1.147	1.997	20.6	20.5	5 1	17 44.09	-20 50.2	1.897	2.701	15.4	21.2
5 11	17 34.06	-30 46.7	1.052	1.968	16.9	20.2	5 11	17 39.55	-20 22.1	1.794	2.686	12.4	21.0
5 21	17 29.80	-30 33.7	0.973	1.941	12.4	19.8	5 21	17 32.33	-19 51.3	1.712	2.670	8.7	20.7
5 31	17 22.12	-30 4.8	0.914	1.914	7.3	19.4	5 31	17 22.94	-19 18.5	1.654	2.654	4.6	20.4
6 10	17 12.26	-29 17.8	0.876	1.888	3.4	19.1	6 10	17 12.30	-18 44.8	1.623	2.637	1.6	20.2
6 20	17 1.96	-28 14.3	0.859	1.864	7.0	19.2	6 20	17 1.52	-18 12.3	1.620	2.619	5.2	20.4
6 30	16 53.24	-27 0.4	0.864	1.841	12.8	19.5	6 30	16 51.76	-17 43.8	1.644	2.600	9.5	20.6
7 10	16 47.73	-25 45.2	0.887	1.819	18.4	19.7	7 10	16 44.02	-17 21.8	1.691	2.581	13.5	20.8
126993	2002 <i>FB</i> ₃₄		6 9.8 82°86	3°1/ 9.4	18		163638	2002 <i>UN</i> ₄₆		6 9.8 257°76	1°0/ 9.9	18	
5 1	17 37.68	-12 52.4	2.348	3.146	13.0	19.7	5 1	17 39.85	-25 33.8	2.159	2.962	13.8	20.5
5 11	17 33.67	-12 49.1	2.266	3.151	10.4	19.5	5 11	17 35.89	-25 42.1	2.063	2.954	11.1	20.3
5 21	17 27.75	-12 50.8	2.205	3.156	7.5	19.4	5 21	17 29.60	-25 47.6	1.989	2.946	7.8	20.1
5 31	17 20.40	-12 58.3	2.170	3.161	4.6	19.2	5 31	17 21.48	-25 49.0	1.939	2.938	4.1	19.8
6 10	17 12.32	-13 12.1	2.161	3.166	3.1	19.1	6 10	17 12.34	-25 45.7	1.916	2.930	1.0	19.6
6 20	17 4.27	-13 32.4	2.181	3.172	4.9	19.2	6 20	17 3.14	-25 37.8	1.921	2.922	4.1	19.8
6 30	16 57.03	-13 58.7	2.228	3.177	7.9	19.4	6 30	16 54.86	-25 26.7	1.952	2.914	7.9	20.0
7 10	16 51.23	-14 30.6	2.299	3.182	10.7	19.6	7 10	16 48.34	-25 14.8	2.008	2.906	11.3	20.2
149387	2003 <i>AZ</i> ₄		6 9.8 248°76	0°0/ 9.7	18		256116	2006 <i>UW</i> ₂₉₇		6 9.8 115°69	0°7/ 9.9	17	
5 1	17 42.42	-23 39.1	1.910	2.716	15.3	20.6	5 1	17 44.74	-24 46.0	1.729	2.537	16.5	21.3
5 11	17 38.29	-23 33.7	1.809	2.702	12.2	20.4	5 11	17 40.09	-24 53.3	1.656	2.550	13.1	21.1
5 21	17 31.48	-23 25.5	1.728	2.687	8.6	20.1	5 21	17 32.61	-24 57.8	1.603	2.562	9.1	20.9
5 31	17 22.51	-23 13.9	1.671	2.672	4.4	19.8	5 31	17 22.99	-24 57.8	1.574	2.574	4.7	20.6
6 10	17 12.27	-22 58.6	1.640	2.656	0.1	19.4	6 10	17 12.31	-24 52.7	1.571	2.586	0.7	20.4
6 20	17 1.88	-22 40.4	1.637	2.639	4.7	19.8	6 20	17 1.80	-24 43.0	1.595	2.597	4.7	20.7
6 30	16 52.51	-22 21.5	1.661	2.623	9.1	20.0	6 30	16 52.67	-24 30.7	1.645	2.608	9.0	21.0
7 10	16 45.15	-22 4.5	1.708	2.605	13.0	20.2	7 10	16 45.81	-24 18.6	1.719	2.618	12.8	21.2
141392	2002 <i>AO</i> ₁₀₈		6 9.8 150°83	0°6/ 9.9	18		282577	2005 <i>CU</i>		6 9.8 226°78	4°6/ 9.0	18	
5 1	17 39.43	-25 7.8	2.905	3.691	11.0	21.0	5 1	17 40.08	- 9 10.4	2.374	3.159	13.2	21.3
5 11	17 34.72	-25 10.6	2.818	3.699	8.7	20.9	5 11	17 35.64	- 8 50.8	2.274	3.148	10.9	21.2
5 21	17 28.30	-25 11.0	2.753	3.707	6.1	20.7	5 21	17 29.21	- 8 37.5	2.197	3.137	8.2	21.0
5 31	17 20.62	-25 8.3	2.716	3.715	3.1	20.5	5 31	17 21.22	- 8 32.3	2.145	3.125	5.7	20.8
6 10	17 12.33	-25 2.1	2.707	3.722	0.6	20.3	6 10	17 12.35	- 8 36.8	2.119	3.113	4.7	20.7
6 20	17 4.09	-24 53.1	2.728	3.728	3.2	20.6	6 20	17 3.39	- 8 51.7	2.122	3.100	6.2	20.8
6 30	16 56.59	-24 42.2	2.777	3.735	6.1	20.8	6 30	16 55.15	- 9 16.9	2.152	3.087	8.9	20.9
7 10	16 50.41	-24 30.9	2.852	3.740	8.7	20.9	7 10	16 48.36	- 9 51.5	2.206	3.073	11.7	21.1
18099	Flamini		6 9.8 260°40	2°2/ 9.5	18		14285	2566 <i>P-L</i>		6 9.8 191°33	1°0/ 9.6	18	
5 1	17 38.67	-15 36.7	2.344	3.142	13.0	18.8	5 1	17 43.11	-21 0.5	2.088	2.887	14.4	19.9
5 11	17 34.65	-15 39.8	2.243	3.131	10.4	18.6	5 11	17 38.37	-20 49.3	1.996	2.886	11.4	19.7
5 21	17 28.58	-15 46.4	2.164	3.119	7.4	18.4	5 21	17 31.24	-20 37.1	1.926	2.884	8.0	19.5
5 31	17 20.91	-15 57.2	2.110	3.107	4.2	18.2	5 31	17 22.28	-20 23.8	1.881	2.881	4.1	19.2
6 10	17 12.32	-16 12.2	2.084	3.094	2.2	18.0	6 10	17 12.34	-20 9.9	1.864	2.878	1.0	19.0
6 20	17 3.60	-16 31.4	2.086	3.082	4.5	18.1	6 20	17 2.39	-19 56.3	1.874	2.874	4.5	19.2
6 30	16 55.63	-16 54.8	2.115	3.070	7.9	18.3	6 30	16 53.46	-19 44.6	1.912	2.870	8.3	19.5
7 10	16 49.13	-17 22.2	2.169	3.057	11.1	18.5	7 10	16 46.34	-19 36.5	1.975	2.865	11.8	19.7
294944	2008 <i>DV</i> ₆₄		6 9.8 288°28	4°8/ 8.8	18		121610	1999 <i>VW</i> ₁₄₇		6 9.8 294°22	4°3/10.5	18	
5 1	17 36.48	- 9 53.1	2.226	3.024	13.6	20.7	5 1	17 40.42	-34 16.9	2.279	3.065	13.7	19.8
5 11	17 32.92	- 9 25.3	2.132	3.015	11.1	20.5	5 11	17 36.53	-34 54.1	2.181	3.054	11.3	19.6
5 21	17 27.37	- 9 3.3	2.060	3.005	8.4	20.3	5 21	17 30.17	-35 24.9	2.104	3.044	8.5	19.4
5 31	17 20.28	- 8 49.2	2.013	2.996	5.8	20.2	5 31	17 21.83	-35 45.9	2.051	3.033	5.8	19.2
6 10	17 12.34	- 8 45.0	1.992	2.986	4.8	20.1	6 10	17 12.35	-35 54.6	2.024	3.023	4.3	19.1
6 20	17 4.34	- 8 51.8	1.997	2.977	6.4	20.2	6 20	17 2.75	-35 50.2	2.025	3.012	5.6	19.2
6 30	16 57.11	- 9 9.8	2.029	2.967	9.1	20.3	6 30	16 54.10	-35 33.9	2.052	3.002	8.4	19.3
7 10	16 51.35	- 9 38.2	2.084	2.958	12.0	20.5	7 10	16 47.30	-35 9.2	2.103	2.991	11.3	19.5
180413	2004 <i>BO</i> ₄₆		6 9.8 110°80	4°9/ 9.1	17		308349	2005 <i>QQ</i> ₆₁		6 9.8 205°00	0°3/ 9.9	18	
5 1	17 41.89	-11 38.2	1.715	2.523	16.7	20.1	5 1	17 38.92	-24 52.7	2.749	3.540	11.5	21.7
5 11	17 37.59	-11 7.5	1.645	2.534	13.5	19.9	5 11	17 34.50	-24 43.6	2.651	3.536	9.1	21.6
5 21	17 30.75	-10 43.0	1.595	2.545	9.9	19.7	5 21	17 28.28	-24 31.5	2.576	3.531	6.3	21.4
5 31	17 21.99	-10 27.3	1.568	2.556	6.5	19.5	5 31	17 20.68	-24 16.0	2.527	3.527	3.2	21.2
6 10	17 12.31	-10 22.2	1.567	2.567	5.0	19.4	6 10	17 12.38	-23 57.3	2.506	3.521	0.3	20.9
6 20	17 2.78	-10 28.8	1.592	2.577	7.0	19.6	6 20	17 4.08	-23 36.1	2.515	3.516	3.4	21.2
6 30	16 54.46	-10 47.0	1.642	2.587	10.4	19.8	6 30	16 56.53	-23 14.0	2.551	3.510	6.5	21.4
7 10	16 48.17	-11 15.8	1.714	2.597	13.7	20.0	7 10	16 50.34	-22 52.9	2.614	3.504	9.3	21.5
174466	Zucker		6 9.8 56°47	6°1/10.5	17		506531	2004 <i>TY</i> ₁₆₁		6 9.8 260°35	0°7/ 9.6	17	
5 1	17 45.99	-36 42.1	1.955	2.736	15.8	20.1	5 1	17 40.34	-21 52.2	1.948	2.757	14.9	21.9
5 11	17 41.18	-37 54.9	1.894	2.760	13.1	20.0	5 11	17 36.51	-21 42.7	1.850	2.746	11.9	21.7
5 21	17 33.43	-38 58.9	1.855	2.784	10.1	19.8	5 21	17 30.17	-21 31.7	1.773	2.733	8.3	21.4
5 31	17 23.42	-39 48.6	1.838	2.809	7.4	19.7	5 31	17 21.83	-21 18.9	1.720	2.721	4.3	21.1
6 10	17 12.28	-40 20.0	1.848	2.833	6.1	19.7	6 10	17 12.35	-21 4.8	1.694	2.709	0.7	20.8
6 20	17 1.30	-40 31.9	1.884	2.858	7.1	19.8	6 20	17 2.77	-20 50.3	1.695	2.696	4.6	21.1
6 30	16 51.76	-40 26.4	1.945	2.883	9.5	20.0	6 30	16 54.17	-20 37.2	1.722	2.683	8.8	21.3
7 10	16 44.60	-40 8.3	2.030	2.907	12.1	20.2	7 10	16 47.47	-20 27.4	1.773	2.670	12.6	21.5
387232	2012 <i>UL</i> ₄₀		6 9.8 236°78	0°1/ 9.8	17		389579	2011 <i>BM</i> ₂₂		6 9.8 231°41	18°7/ 8.8		

EPHEMERIDES

6 9.8

6 9.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
349583	2008 <i>SD</i> ₂₈₁	6 9.8 265°24	1.4/ 9.5	17			222601	2001 <i>XY</i> ₁₇	6 9.8 160°12	3°6/ 10.9	17		
5 1	17 39.65	-19 40.5	1.973	2.783	14.7	21.7	5 1	17 45.75	-34 41.9	2.053	2.835	15.1	20.6
5 11	17 35.90	-19 31.9	1.876	2.771	11.8	21.5	5 11	17 40.69	-34 37.8	1.967	2.839	12.4	20.4
5 21	17 29.71	-19 23.5	1.800	2.760	8.2	21.3	5 21	17 32.92	-34 23.2	1.901	2.843	9.1	20.2
5 31	17 21.58	-19 15.6	1.748	2.748	4.3	21.0	5 31	17 23.13	-33 55.4	1.860	2.847	5.8	20.0
6 10	17 12.36	-19 8.7	1.722	2.736	1.4	20.8	6 10	17 12.35	-33 13.5	1.845	2.850	3.6	19.8
6 20	17 3.04	-19 3.6	1.724	2.724	4.8	21.0	6 20	17 1.77	-32 19.2	1.858	2.852	5.2	20.0
6 30	16 54.65	-19 1.5	1.752	2.712	8.8	21.2	6 30	16 52.52	-31 16.5	1.898	2.855	8.5	20.2
7 10	16 48.08	-19 3.6	1.804	2.700	12.5	21.4	7 10	16 45.46	-30 10.8	1.963	2.857	11.7	20.4
426032	2011 <i>QT</i> ₅₀	6 9.8 344°74	7°5/ 8.1	16			474744	2005 <i>OU</i> ₁₂	6 9.8 261°09	6°6/ 8.4	18		
5 1	17 30.56	-10 42.3	1.302	2.150	18.7	19.8	5 1	17 37.07	-2 50.9	2.478	3.252	13.1	20.9
5 11	17 29.68	-9 36.4	1.222	2.134	15.5	19.5	5 11	17 33.19	-2 16.1	2.380	3.237	11.1	20.7
5 21	17 25.92	-8 35.4	1.160	2.119	11.9	19.3	5 21	17 27.47	-1 50.1	2.303	3.222	9.0	20.6
5 31	17 19.83	-7 45.3	1.118	2.105	8.7	19.1	5 31	17 20.35	-1 36.1	2.251	3.206	7.2	20.4
6 10	17 12.41	-7 11.7	1.098	2.093	7.6	19.0	6 10	17 12.42	-1 36.4	2.224	3.191	6.7	20.4
6 20	17 4.89	-6 58.6	1.100	2.083	9.8	19.0	6 20	17 4.40	-1 52.2	2.224	3.175	7.7	20.4
6 30	16 58.58	-7 7.6	1.124	2.075	13.5	19.2	6 30	16 57.03	-2 23.3	2.249	3.159	9.8	20.5
7 10	16 54.53	-7 37.2	1.166	2.068	17.4	19.4	7 10	16 50.97	-3 8.1	2.298	3.143	12.1	20.6
427891	2005 <i>TC</i> ₄₀	6 9.8 185°78	2°8/ 10.1	17			226070	2002 <i>JQ</i> ₆₈	6 9.8 125°18	1°8/ 9.9	18		
5 1	17 44.57	-28 52.7	2.025	2.819	14.9	22.3	5 1	17 44.65	-25 45.5	2.059	2.855	14.7	20.1
5 11	17 39.90	-29 28.8	1.936	2.819	12.0	22.1	5 11	17 39.72	-26 25.4	1.980	2.866	11.7	19.9
5 21	17 32.54	-30 1.4	1.868	2.819	8.7	21.9	5 21	17 32.25	-27 3.9	1.922	2.876	8.2	19.7
5 31	17 23.04	-30 27.3	1.824	2.818	5.1	21.7	5 31	17 22.83	-27 38.3	1.889	2.887	4.5	19.5
6 10	17 12.34	-30 44.0	1.808	2.817	2.8	21.5	6 10	17 12.36	-28 6.3	1.884	2.896	1.8	19.3
6 20	17 1.58	-30 50.5	1.819	2.815	5.0	21.7	6 20	17 1.93	-28 26.7	1.907	2.906	4.5	19.5
6 30	16 51.92	-30 47.9	1.856	2.813	8.6	21.9	6 30	16 52.60	-28 39.9	1.957	2.915	8.1	19.8
7 10	16 44.32	-30 39.3	1.918	2.811	12.0	22.1	7 10	16 45.24	-28 48.2	2.031	2.924	11.5	20.0
154259	2002 <i>NY</i> ₅₅	6 9.8 330°89	4°4/ 10.4	18			19276	1995 <i>XS</i> ₄	6 9.8 292°15	3°3/ 8.7	18 R		
5 1	17 34.15	-30 54.0	1.135	1.986	20.7	19.0	5 1	17 37.03	-16 43.6	2.164	2.972	13.6	19.2
5 11	17 33.81	-31 16.2	1.047	1.964	17.0	18.7	5 11	17 33.52	-15 53.3	2.062	2.956	11.0	19.0
5 21	17 29.62	-31 29.4	0.977	1.943	12.6	18.3	5 21	17 27.89	-15 2.0	1.983	2.939	7.9	18.8
5 31	17 22.04	-31 29.2	0.925	1.923	7.7	18.0	5 31	17 20.60	-14 11.9	1.928	2.923	4.8	18.6
6 10	17 12.35	-31 12.1	0.894	1.904	4.4	17.7	6 10	17 12.41	-13 25.7	1.901	2.907	3.3	18.4
6 20	17 2.32	-30 37.8	0.885	1.887	7.4	17.8	6 20	17 4.16	-12 45.9	1.900	2.891	5.6	18.6
6 30	16 53.94	-29 50.7	0.896	1.871	12.7	18.1	6 30	16 56.72	-12 15.2	1.927	2.875	9.0	18.7
7 10	16 48.79	-28 58.1	0.926	1.857	17.9	18.3	7 10	16 50.86	-11 54.9	1.976	2.859	12.2	18.9
437019	2012 <i>TJ</i> ₂₇₃	6 9.8 313°18	3°8/ 8.9	17			478362	2011 <i>YR</i> ₂₃	6 9.8 266°72	3°2/ 9.4	18		
5 1	17 37.53	-15 29.7	1.806	2.624	15.6	21.1	5 1	17 39.27	-11 40.6	2.582	3.368	12.3	21.4
5 11	17 34.29	-14 50.3	1.719	2.617	12.5	20.9	5 11	17 34.98	-11 43.6	2.469	3.347	10.0	21.2
5 21	17 28.60	-14 12.5	1.651	2.610	9.0	20.7	5 21	17 28.78	-11 52.3	2.379	3.325	7.3	21.0
5 31	17 21.01	-13 38.5	1.608	2.603	5.5	20.5	5 31	17 21.06	-12 7.7	2.314	3.303	4.6	20.8
6 10	17 12.39	-13 11.0	1.590	2.596	3.8	20.3	6 10	17 12.42	-12 30.1	2.278	3.281	3.2	20.7
6 20	17 3.75	-12 52.0	1.598	2.590	6.2	20.5	6 20	17 3.58	-12 59.6	2.270	3.259	4.9	20.8
6 30	16 56.13	-12 43.3	1.631	2.583	9.9	20.7	6 30	16 55.34	-13 35.7	2.290	3.236	7.9	20.9
7 10	16 50.39	-12 45.3	1.687	2.577	13.5	20.9	7 10	16 48.40	-14 17.5	2.335	3.212	10.8	21.1
26694	Wenxili	6 9.8 33°85	2°8/ 9.6	17			415103	2012 <i>CT</i> ₁₅	6 9.8 110°69	1°1/ 10.0	17		
5 1	17 40.61	-15 52.8	1.399	2.229	18.6	18.5	5 1	17 46.15	-26 30.0	1.713	2.518	16.8	21.7
5 11	17 37.39	-15 56.8	1.329	2.234	14.9	18.3	5 11	17 41.18	-26 28.7	1.644	2.535	13.3	21.5
5 21	17 31.09	-16 6.6	1.276	2.239	10.6	18.0	5 21	17 33.34	-26 22.5	1.594	2.552	9.3	21.3
5 31	17 22.37	-16 23.0	1.246	2.245	5.8	17.8	5 31	17 23.35	-26 9.9	1.568	2.568	4.9	21.0
6 10	17 12.36	-16 45.6	1.240	2.251	2.8	17.6	6 10	17 12.38	-25 50.4	1.569	2.584	1.1	20.8
6 20	17 2.42	-17 14.0	1.258	2.258	6.2	17.8	6 20	17 1.67	-25 25.4	1.597	2.599	4.8	21.1
6 30	16 53.89	-17 47.4	1.301	2.265	10.8	18.1	6 30	16 52.44	-24 57.8	1.651	2.613	9.0	21.4
7 10	16 47.82	-18 25.1	1.365	2.272	15.0	18.4	7 10	16 45.56	-24 31.1	1.728	2.627	12.8	21.6
379499	2010 <i>FE</i> ₅₃	6 9.8 206°94	4°5/ 10.3	18			310291	2011 <i>UJ</i> ₈₀	6 9.8 164°87	3°8/ 8.3	18		
5 1	17 46.05	-34 6.1	2.281	3.057	14.0	21.3	5 1	17 37.60	-13 37.0	2.597	3.390	12.0	20.4
5 11	17 41.00	-34 53.4	2.185	3.051	11.5	21.1	5 11	17 33.37	-12 41.1	2.511	3.393	9.7	20.3
5 21	17 33.29	-35 35.0	2.109	3.046	8.7	20.9	5 21	17 27.43	-11 46.6	2.448	3.395	7.1	20.1
5 31	17 23.44	-36 6.7	2.059	3.039	5.9	20.7	5 31	17 20.25	-10 55.7	2.411	3.397	4.7	20.0
6 10	17 12.34	-36 25.3	2.036	3.033	4.5	20.6	6 10	17 12.45	-10 10.9	2.402	3.399	3.8	19.9
6 20	17 1.09	-36 29.3	2.040	3.025	5.8	20.7	6 20	17 4.73	-9 34.4	2.421	3.401	5.4	20.0
6 30	16 50.86	-36 20.1	2.072	3.017	8.6	20.9	6 30	16 57.75	-9 7.8	2.468	3.402	7.9	20.2
7 10	16 42.62	-36 1.0	2.128	3.009	11.5	21.0	7 10	16 52.10	-8 51.6	2.540	3.404	10.5	20.3
328212	2008 <i>EB</i> ₁₀₉	6 9.8 221°68	1°3/ 9.5	17			504963	2011 <i>FG</i> ₁₂₅	6 9.8 258°17	6°5/ 10.9	17		
5 1	17 43.50	-20 11.3	1.972	2.774	15.0	22.4	5 1	17 45.31	-38 44.9	1.899	2.678	16.3	21.0
5 11	17 38.95	-20 0.4	1.873	2.764	12.0	22.2	5 11	17 41.17	-39 28.4	1.806	2.669	13.7	20.8
5 21	17 31.83	-19 49.0	1.796	2.754	8.4	22.0	5 21	17 33.83	-40 1.7	1.732	2.660	10.8	20.6
5 31	17 22.68	-19 37.3	1.743	2.743	4.4	21.7	5 31	17 23.86	-40 19.2	1.680	2.650	8.0	20.4
6 10	17 12.36	-19 25.7	1.718	2.732	1.3	21.4	6 10	17 12.37	-40 16.9	1.654	2.641	6.6	20.3
6 20	17 1.94	-19 15.0	1.720	2.720	4.8	21.7	6 20	17 0.78	-39 53.4	1.653	2.631	7.6	20.3
6 30	16 52.51	-19 6.8	1.749	2.707	9.0	21.9	6 30	16 50.56	-39 11.7	1.677	2.621	10.3	20.5
7 10	16 45.00	-19 2.9	1.802	2.693	12.7	22.1	7 10	16 42.86	-38 17.7	1.725	2.611	13.5	20.6
394750	2008 <i>FF</i> ₅₁	6 9.8 104°96	1°1/ 9.5	17			354749	2005 <i>TR</i> ₁₂₃	6 9.8 154°88				

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
310673	2002 <i>FN</i> ₁₃	6 9.8 61°72'	4°6'	9.2	17		160918	2001 <i>XB</i> ₈₈	6 9.8 80°99'	0°8'	9.7	17	
5 1	17 42.08	-14 36.7	1.310	2.141	19.6	20.8	5 1	17 39.50	-20 11.9	2.308	3.109	13.1	19.9
5 11	17 38.43	-14 1.7	1.254	2.158	15.7	20.6	5 11	17 35.15	-20 16.9	2.235	3.126	10.4	19.8
5 21	17 31.65	-13 31.8	1.215	2.176	11.2	20.4	5 21	17 28.81	-20 22.3	2.184	3.143	7.1	19.6
5 31	17 22.57	-13 9.6	1.199	2.194	6.8	20.2	5 31	17 21.01	-20 28.0	2.159	3.159	3.6	19.4
6 10	17 12.42	-12 57.6	1.206	2.212	4.6	20.1	6 10	17 12.51	-20 33.8	2.161	3.176	0.8	19.2
6 20	17 2.61	-12 57.0	1.237	2.231	7.3	20.3	6 20	17 4.14	-20 39.8	2.192	3.193	3.8	19.5
6 30	16 54.43	-13 8.3	1.292	2.249	11.5	20.6	6 30	16 56.69	-20 46.6	2.250	3.209	7.2	19.7
7 10	16 48.79	-13 30.5	1.368	2.268	15.4	20.9	7 10	16 50.82	-20 55.0	2.333	3.226	10.2	19.9
149423	2003 <i>BU</i> ₂₀	6 9.8 138°84'	2°4'	9.5	18		483131	2015 <i>OC</i> ₁₅	6 9.8 268°40'	6°4'	8.9	18	
5 1	17 41.66	-16 31.1	1.834	2.643	15.7	20.2	5 1	17 37.28	- 2 8.3	2.582	3.351	12.7	21.8
5 11	17 37.47	-16 28.2	1.754	2.647	12.5	20.0	5 11	17 33.30	- 1 46.2	2.482	3.335	10.8	21.7
5 21	17 30.76	-16 28.7	1.694	2.652	8.8	19.8	5 21	17 27.55	- 1 33.8	2.403	3.320	8.7	21.5
5 31	17 22.11	-16 33.1	1.658	2.656	4.9	19.5	5 31	17 20.43	- 1 33.8	2.349	3.304	7.0	21.4
6 10	17 12.44	-16 41.8	1.648	2.660	2.4	19.4	6 10	17 12.52	- 1 48.1	2.321	3.288	6.4	21.3
6 20	17 2.79	-16 54.8	1.666	2.663	5.2	19.6	6 20	17 4.52	- 2 17.3	2.319	3.272	7.4	21.3
6 30	16 54.26	-17 12.5	1.709	2.667	9.2	19.8	6 30	16 57.13	- 3 0.8	2.344	3.255	9.4	21.4
7 10	16 47.68	-17 34.9	1.776	2.670	12.8	20.0	7 10	16 51.00	- 3 56.7	2.393	3.239	11.6	21.6
131698	2001 <i>XS</i> ₂₅₇	6 9.8 202°42'	2°3'	10.2	17		428073	2006 <i>HQ</i> ₅₂	6 9.8 344°51'	1°4'	9.9	16	
5 1	17 45.95	-28 20.4	1.673	2.478	17.1	21.0	5 1	17 32.05	-15 46.3	1.167	2.024	19.8	19.6
5 11	17 41.55	-28 35.3	1.585	2.476	13.8	20.8	5 11	17 31.61	-16 34.1	1.080	2.003	16.1	19.2
5 21	17 34.00	-28 45.1	1.517	2.472	9.9	20.5	5 21	17 27.84	-17 35.3	1.011	1.983	11.4	18.9
5 31	17 23.91	-28 46.7	1.471	2.469	5.5	20.2	5 31	17 21.13	-18 49.7	0.961	1.965	6.1	18.6
6 10	17 12.40	-28 38.2	1.452	2.464	2.3	20.0	6 10	17 12.50	-20 14.6	0.934	1.949	1.4	18.2
6 20	17 0.85	-28 19.9	1.459	2.460	5.4	20.2	6 20	17 3.41	-21 45.0	0.929	1.935	6.3	18.5
6 30	16 50.68	-27 54.3	1.492	2.454	9.8	20.5	6 30	16 55.58	-23 15.9	0.947	1.923	12.0	18.7
7 10	16 43.00	-27 25.9	1.547	2.448	13.9	20.7	7 10	16 50.47	-24 43.6	0.984	1.914	17.2	19.0
276972	2004 <i>VE</i> ₃₀	6 9.8 269°66'	0°2'	9.8	18		484805	2009 <i>DE</i> ₁₂₇	6 9.8 149°18'	19°5'	6.0	18	
5 1	17 40.64	-22 5.6	1.911	2.721	15.1	21.3	5 1	17 44.26	+14 6.6	1.318	2.063	23.7	21.7
5 11	17 36.90	-22 11.7	1.811	2.707	12.1	21.1	5 11	17 40.25	+16 34.7	1.272	2.070	22.0	21.6
5 21	17 30.56	-22 17.5	1.733	2.693	8.5	20.8	5 21	17 33.03	+18 35.3	1.242	2.077	20.5	21.5
5 31	17 22.12	-22 22.2	1.678	2.680	4.3	20.5	5 31	17 23.36	+19 56.0	1.227	2.082	19.6	21.4
6 10	17 12.45	-22 25.3	1.650	2.666	0.2	20.2	6 10	17 12.47	+20 28.5	1.230	2.087	19.6	21.4
6 20	17 2.61	-22 26.7	1.649	2.651	4.6	20.5	6 20	17 1.76	+20 10.0	1.250	2.092	20.3	21.5
6 30	16 53.74	-22 27.5	1.674	2.637	8.9	20.7	6 30	16 52.61	+19 4.0	1.285	2.095	21.6	21.6
7 10	16 46.80	-22 29.5	1.723	2.623	12.8	20.9	7 10	16 46.04	+17 19.3	1.335	2.099	23.1	21.7
227861	2007 <i>DM</i> ₈₂	6 9.8 79°86'	3°4'	10.8	18		283695	2002 <i>RY</i> ₁₃₃	6 9.8 282°26'	1°9'	9.6	18	
5 1	17 44.23	-32 54.9	1.709	2.511	17.0	19.8	5 1	17 39.90	-17 12.4	2.062	2.868	14.3	21.0
5 11	17 39.94	-32 51.9	1.634	2.520	13.7	19.6	5 11	17 36.14	-17 17.6	1.953	2.845	11.5	20.7
5 21	17 32.64	-32 38.5	1.579	2.529	10.0	19.4	5 21	17 29.98	-17 26.2	1.865	2.822	8.2	20.5
5 31	17 23.07	-32 12.0	1.546	2.539	6.0	19.1	5 31	17 21.85	-17 38.3	1.801	2.800	4.5	20.2
6 10	17 12.44	-31 31.8	1.539	2.548	3.4	19.0	6 10	17 12.51	-17 54.0	1.764	2.776	1.9	20.0
6 20	17 2.07	-30 39.9	1.559	2.557	5.4	19.1	6 20	17 2.89	-18 13.1	1.754	2.753	4.8	20.1
6 30	16 53.23	-29 41.0	1.604	2.566	9.3	19.4	6 30	16 54.04	-18 35.6	1.771	2.730	8.8	20.3
7 10	16 46.85	-28 40.8	1.673	2.576	12.9	19.6	7 10	16 46.88	-19 1.8	1.812	2.706	12.6	20.5
196163	2002 <i>VD</i> ₄₃	6 9.8 241°35'	3°6'	8.7	18		251328	2007 <i>CM</i> ₆₀	6 9.8 109°70'	0°2'	9.8	18	
5 1	17 34.66	-11 18.2	2.975	3.764	10.8	20.8	5 1	17 38.71	-22 23.5	2.599	3.395	12.0	21.4
5 11	17 30.94	-10 47.1	2.879	3.757	8.7	20.7	5 11	17 34.37	-22 25.4	2.519	3.406	9.4	21.2
5 21	17 25.73	-10 19.2	2.806	3.750	6.5	20.5	5 21	17 28.20	-22 26.2	2.461	3.418	6.5	21.0
5 31	17 19.42	- 9 56.3	2.760	3.743	4.4	20.4	5 31	17 20.70	-22 25.6	2.429	3.429	3.3	20.8
6 10	17 12.52	- 9 39.8	2.741	3.736	3.6	20.3	6 10	17 12.54	-22 23.5	2.425	3.440	0.2	20.6
6 20	17 5.61	- 9 30.7	2.750	3.729	4.9	20.4	6 20	17 4.46	-22 20.3	2.449	3.451	3.4	20.9
6 30	16 59.28	- 9 29.9	2.786	3.721	7.1	20.5	6 30	16 57.19	-22 17.0	2.502	3.461	6.6	21.1
7 10	16 54.03	- 9 37.1	2.848	3.714	9.4	20.6	7 10	16 51.34	-22 14.6	2.581	3.472	9.4	21.3
119809	2002 <i>AD</i> ₁₅₄	6 9.8 83°21'	2°9'	10.5	17		17394	1981 <i>ER</i> ₄₂	6 9.8 227°93'	0°6'	9.9	18	
5 1	17 41.21	-31 47.6	2.359	3.146	13.3	20.1	5 1	17 39.02	-25 8.2	2.526	3.321	12.3	19.4
5 11	17 36.67	-32 3.4	2.284	3.161	10.7	20.0	5 11	17 34.86	-25 11.7	2.429	3.316	9.8	19.2
5 21	17 29.93	-32 12.8	2.231	3.177	7.7	19.8	5 21	17 28.71	-25 12.7	2.353	3.310	6.8	19.0
5 31	17 21.59	-32 13.6	2.203	3.193	4.7	19.6	5 31	17 21.04	-25 10.2	2.304	3.303	3.5	18.7
6 10	17 12.48	-32 4.9	2.202	3.208	2.9	19.5	6 10	17 12.54	-25 4.0	2.282	3.297	0.6	18.5
6 20	17 3.52	-31 47.2	2.228	3.224	4.4	19.7	6 20	17 4.00	-24 54.5	2.289	3.290	3.6	18.7
6 30	16 55.62	-31 22.5	2.283	3.239	7.3	19.9	6 30	16 56.25	-24 42.7	2.323	3.283	6.9	18.9
7 10	16 49.47	-30 53.9	2.362	3.254	10.1	20.1	7 10	16 49.98	-24 30.7	2.383	3.276	10.0	19.1
441377	2008 <i>EU</i> ₆₄	6 9.8 325°40'	8°0'	7.2	16		304605	2006 <i>VD</i> ₇₇	6 9.8 261°72'	1°4'	9.5	18	
5 1	17 34.99	- 3 22.5	2.108	2.899	14.5	21.4	5 1	17 38.30	-19 31.6	2.342	3.144	12.9	21.5
5 11	17 31.83	- 2 7.8	2.026	2.892	12.3	21.3	5 11	17 34.43	-19 17.2	2.240	3.131	10.3	21.3
5 21	17 26.67	- 1 0.9	1.964	2.885	10.1	21.1	5 21	17 28.50	-19 2.6	2.160	3.118	7.2	21.1
5 31	17 20.00	- 0 6.7	1.926	2.878	8.5	21.0	5 31	17 20.96	-18 48.2	2.105	3.105	3.8	20.8
6 10	17 12.53	+ 0 30.5	1.912	2.872	8.1	21.0	6 10	17 12.54	-18 34.7	2.078	3.091	1.5	20.6
6 20	17 5.05	+ 0 48.3	1.923	2.866	9.3	21.0	6 20	17 4.03	-18 23.2	2.079	3.077	4.2	20.8
6 30	16 58.39	+ 0 45.9	1.958	2.860	11.4	21.1	6 30	16 56.29	-18 14.8	2.106	3.064	7.7	21.0
7 10	16 53.22	+ 0 24.8	2.015	2.854	13.7	21.3	7 10	16 50.05	-18 10.8	2.159	3.049	11.0	21.2
496988	2002 <i>RB</i> ₂₀₉	6 9.8 294°82'	3°6'	9.1	17		16093	1999 <i>TQ</i> ₁₈₀	6 9				

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
66768	1999 <i>TG</i> ₂₀₀	6 9.8 297°80	1°3/10.0	18			471289	2011 <i>GJ</i> ₃₄	6 9.8 22°50	9°9/10.8	17		
5 1	17 39.70	-26 29.5	1.784	2.598	15.8	19.8	5 1	17 43.53	-40 22.5	1.381	2.185	20.1	20.0
5 11	17 36.47	-26 33.8	1.685	2.582	12.8	19.5	5 11	17 40.97	-42 0.0	1.320	2.194	17.1	19.8
5 21	17 30.45	-26 33.9	1.606	2.566	9.0	19.3	5 21	17 34.35	-43 25.2	1.276	2.203	13.9	19.6
5 31	17 22.15	-26 28.3	1.550	2.550	4.8	19.0	5 31	17 24.36	-44 28.8	1.253	2.214	11.2	19.5
6 10	17 12.51	-26 15.9	1.520	2.535	1.3	18.7	6 10	17 12.50	-45 3.5	1.251	2.225	9.9	19.5
6 20	17 2.71	-25 57.3	1.517	2.519	4.9	18.9	6 20	17 0.69	-45 6.9	1.272	2.238	10.8	19.6
6 30	16 54.00	-25 34.7	1.538	2.504	9.3	19.1	6 30	16 50.90	-44 42.5	1.315	2.251	13.2	19.7
7 10	16 47.41	-25 11.4	1.583	2.489	13.3	19.4	7 10	16 44.49	-43 58.6	1.377	2.265	16.1	19.9
430673	2003 <i>UL</i> ₃₂₄	6 9.8 1°53	3°1/ 8.7	17			304619	2006 <i>VA</i> ₁₁₀	6 9.8 159°08	4°0/ 8.5	18		
5 1	17 38.65	-20 41.5	1.579	2.406	17.0	20.4	5 1	17 37.25	-10 5.0	2.945	3.726	11.0	21.8
5 11	17 35.49	-19 29.8	1.500	2.405	13.6	20.2	5 11	17 32.89	-9 24.1	2.861	3.733	9.0	21.6
5 21	17 29.57	-18 12.6	1.441	2.404	9.5	19.9	5 21	17 27.02	-8 46.8	2.800	3.739	6.7	21.5
5 31	17 21.57	-16 53.3	1.405	2.405	5.3	19.7	5 31	17 20.07	-8 15.2	2.766	3.744	4.8	21.4
6 10	17 12.53	-15 36.1	1.395	2.405	3.1	19.5	6 10	17 12.59	-7 51.1	2.760	3.749	4.1	21.3
6 20	17 3.65	-14 26.2	1.410	2.406	6.3	19.7	6 20	17 5.17	-7 35.6	2.782	3.754	5.3	21.4
6 30	16 56.07	-13 28.1	1.451	2.408	10.5	20.0	6 30	16 58.39	-7 29.6	2.832	3.758	7.4	21.6
7 10	16 50.66	-12 44.7	1.514	2.410	14.4	20.2	7 10	16 52.77	-7 32.7	2.906	3.761	9.5	21.7
343790	2011 <i>GH</i> ₅₃	6 9.8 7°04	2°7/10.2	16			355564	2008 <i>CN</i> ₄₁	6 9.8 43°17	12°1/14.8	16		
5 1	17 37.92	-28 2.3	1.397	2.231	18.5	20.7	5 1	17 54.79	-58 18.2	2.199	2.875	17.1	20.4
5 11	17 35.66	-28 26.5	1.324	2.231	14.8	20.5	5 11	17 49.56	-59 23.5	2.131	2.883	15.6	20.3
5 21	17 30.15	-28 45.8	1.270	2.233	10.6	20.2	5 21	17 40.02	-60 9.0	2.079	2.891	14.2	20.2
5 31	17 22.03	-28 57.2	1.236	2.235	6.0	20.0	5 31	17 27.06	-60 27.0	2.046	2.899	12.9	20.1
6 10	17 12.52	-28 58.7	1.227	2.239	2.7	19.8	6 10	17 12.45	-60 12.0	2.033	2.907	12.2	20.1
6 20	17 3.07	-28 50.1	1.241	2.243	5.8	20.0	6 20	16 58.28	-59 23.3	2.042	2.916	12.2	20.1
6 30	16 55.13	-28 34.1	1.279	2.249	10.3	20.3	6 30	16 46.50	-58 4.9	2.073	2.925	12.9	20.2
7 10	16 49.81	-28 14.6	1.339	2.255	14.5	20.5	7 10	16 38.36	-56 25.4	2.124	2.934	14.2	20.3
515225	2012 <i>BD</i> ₇₄	6 9.8 172°17	7°1/ 7.9	18			509089	2005 <i>UP</i> ₁₉₈	6 9.8 196°29	2°8/ 8.7	18		
5 1	17 36.26	+ 8 47.6	3.733	4.435	10.2	23.1	5 1	17 37.32	-15 1.8	2.964	3.752	10.8	22.5
5 11	17 31.76	+ 9 23.7	3.656	4.439	9.1	23.1	5 11	17 33.01	-14 20.3	2.868	3.749	8.7	22.3
5 21	17 26.08	+ 9 49.2	3.600	4.442	8.0	23.0	5 21	17 27.16	-13 39.5	2.797	3.746	6.2	22.2
5 31	17 19.54	+10 1.5	3.568	4.445	7.3	22.9	5 31	17 20.17	-13 1.0	2.752	3.742	3.9	22.0
6 10	17 12.59	+ 9 59.0	3.561	4.447	7.1	22.9	6 10	17 12.61	-12 26.6	2.736	3.739	2.9	21.9
6 20	17 5.66	+ 9 41.2	3.580	4.449	7.6	23.0	6 20	17 5.07	-11 57.7	2.749	3.734	4.4	22.0
6 30	16 59.23	+ 9 8.7	3.624	4.450	8.5	23.0	6 30	16 58.16	-11 35.8	2.790	3.730	6.9	22.2
7 10	16 53.69	+ 8 23.1	3.692	4.451	9.6	23.1	7 10	16 52.42	-11 21.5	2.857	3.725	9.3	22.4
3549	Hapke	6 9.8 105°84	1°7/10.3	18			70630	1999 <i>TJ</i> ₂₁₉	6 9.8 121°55	4°4/10.7	18		
5 1	17 43.28	-28 58.2	2.113	2.907	14.4	17.2	5 1	17 46.29	-33 23.4	1.667	2.466	17.4	19.0
5 11	17 38.43	-28 51.9	2.038	2.922	11.5	17.0	5 11	17 41.86	-33 47.1	1.591	2.473	14.2	18.8
5 21	17 31.22	-28 39.4	1.984	2.937	8.1	16.8	5 21	17 34.19	-34 1.8	1.533	2.481	10.5	18.6
5 31	17 22.27	-28 19.2	1.955	2.952	4.4	16.6	5 31	17 24.00	-34 3.2	1.499	2.488	6.7	18.4
6 10	17 12.53	-27 51.5	1.954	2.967	1.7	16.4	6 10	17 12.53	-33 48.8	1.490	2.494	4.4	18.2
6 20	17 3.01	-27 17.6	1.980	2.981	4.2	16.6	6 20	17 1.22	-33 19.2	1.506	2.501	6.2	18.4
6 30	16 54.68	-26 40.3	2.034	2.995	7.7	16.9	6 30	16 51.49	-32 38.0	1.549	2.507	9.9	18.6
7 10	16 48.27	-26 3.0	2.113	3.008	10.9	17.1	7 10	16 44.38	-31 51.1	1.614	2.513	13.5	18.8
274079	2008 <i>AE</i> ₂₅	6 9.8 140°98	1°7/10.1	17			165430	2000 <i>YV</i> ₆₉	6 9.8 133°21	0°9/ 9.7	17		
5 1	17 44.31	-26 45.5	1.705	2.514	16.7	21.1	5 1	17 45.51	-20 34.3	1.824	2.627	16.0	20.8
5 11	17 40.02	-26 59.5	1.625	2.519	13.4	20.8	5 11	17 40.52	-20 36.5	1.749	2.640	12.7	20.6
5 21	17 32.79	-27 9.6	1.566	2.524	9.4	20.6	5 21	17 32.87	-20 39.1	1.694	2.652	8.8	20.4
5 31	17 23.26	-27 13.5	1.529	2.528	5.1	20.4	5 31	17 23.22	-20 41.4	1.664	2.664	4.5	20.1
6 10	17 12.51	-27 9.7	1.519	2.532	1.7	20.1	6 10	17 12.56	-20 43.2	1.661	2.675	0.9	19.9
6 20	17 1.83	-26 58.5	1.535	2.536	5.0	20.4	6 20	17 2.03	-20 44.7	1.685	2.686	4.7	20.2
6 30	16 52.50	-26 42.2	1.576	2.540	9.3	20.6	6 30	16 52.76	-20 47.1	1.736	2.696	8.9	20.5
7 10	16 45.52	-26 24.1	1.641	2.543	13.2	20.9	7 10	16 45.61	-20 51.7	1.811	2.705	12.5	20.7
510949	2013 <i>EG</i> ₁₅₅	6 9.8 235°68	1°2/ 9.5	18			143764	2003 <i>WS</i> ₃₀	6 9.8 117°46	0°3/ 9.9	17		
5 1	17 38.01	-19 47.2	2.711	3.505	11.5	22.3	5 1	17 43.55	-25 34.2	1.609	2.424	17.3	20.2
5 11	17 33.87	-19 35.7	2.608	3.494	9.2	22.1	5 11	17 39.45	-25 14.1	1.532	2.430	13.8	19.9
5 21	17 27.93	-19 23.9	2.527	3.483	6.4	21.9	5 21	17 32.38	-24 48.4	1.474	2.435	9.6	19.7
5 31	17 20.63	-19 12.1	2.473	3.472	3.4	21.7	5 31	17 23.04	-24 16.5	1.440	2.441	4.9	19.4
6 10	17 12.57	-19 0.9	2.447	3.460	1.2	21.5	6 10	17 12.57	-23 39.2	1.431	2.446	0.3	19.1
6 20	17 4.46	-18 51.0	2.450	3.448	3.7	21.7	6 20	17 2.26	-22 58.7	1.448	2.451	5.0	19.5
6 30	16 57.02	-18 43.3	2.481	3.436	6.8	21.9	6 30	16 53.40	-22 18.8	1.491	2.456	9.6	19.8
7 10	16 50.87	-18 39.0	2.537	3.424	9.7	22.0	7 10	16 46.92	-21 43.4	1.557	2.461	13.7	20.0
206799	2004 <i>DO</i> ₄₃	6 9.8 305°03	6°5/ 8.6	18			343636	2010 <i>JA</i> ₂₉	6 9.8 56°61	7°5/ 8.4	17		
5 1	17 37.12	- 6 0.1	2.103	2.895	14.5	20.1	5 1	17 38.29	- 5 46.7	1.804	2.604	16.2	20.5
5 11	17 33.50	- 5 18.9	2.020	2.894	12.0	20.0	5 11	17 34.51	- 4 41.3	1.747	2.624	13.5	20.4
5 21	17 27.83	- 4 45.8	1.959	2.892	9.5	19.8	5 21	17 28.51	- 3 45.5	1.710	2.643	10.6	20.2
5 31	17 20.61	- 4 24.3	1.921	2.890	7.2	19.7	5 31	17 20.91	- 3 3.7	1.697	2.663	8.3	20.2
6 10	17 12.57	- 4 16.9	1.908	2.888	6.5	19.6	6 10	17 12.62	- 2 39.3	1.707	2.683	7.6	20.1
6 20	17 4.54	- 4 24.9	1.922	2.887	7.8	19.7	6 20	17 4.55	- 2 34.0	1.743	2.703	8.9	20.3
6 30	16 57.36	- 4 48.1	1.960	2.885	10.2	19.8	6 30	16 57.60	- 2 47.2	1.803	2.723	11.2	20.5
7 10	16 51.73	- 5 25.0	2.022	2.883	12.8	20.0	7 10	16 52.45	- 3 16.7	1.885	2.743	13.8	20.7
445016	2008 <i>HO</i> ₆₀	6 9.8 57°67	8°0/ 7.6	18			3219	Komaki	6 9.8 25°33	2°0/10.4	18		

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
105459	2000 QX ₁₉₉		6 9.8 263°43	2°5/10.1	18		504254	2006 UC ₃₆₁		6 9.8 260°56	4°9/10.8	18	
5 1	17 45.04	-28 5.4	1.670	2.478	17.0	20.6	5 1	17 46.23	-34 58.8	1.827	2.617	16.5	21.8
5 11	17 41.21	-28 28.1	1.565	2.458	13.9	20.3	5 11	17 42.03	-35 22.6	1.722	2.597	13.7	21.5
5 21	17 34.11	-28 47.1	1.480	2.437	10.0	20.0	5 21	17 34.58	-35 37.2	1.636	2.578	10.4	21.3
5 31	17 24.22	-28 59.2	1.418	2.415	5.7	19.7	5 31	17 24.41	-35 38.1	1.573	2.557	7.0	21.0
6 10	17 12.56	-29 1.4	1.381	2.393	2.6	19.5	6 10	17 12.60	-35 21.7	1.536	2.537	4.9	20.9
6 20	17 0.50	-28 52.7	1.370	2.370	5.7	19.6	6 20	17 0.53	-34 47.4	1.524	2.515	6.6	20.9
6 30	16 49.61	-28 34.9	1.385	2.347	10.4	19.8	6 30	16 49.73	-33 58.3	1.538	2.494	10.2	21.1
7 10	16 41.17	-28 12.4	1.422	2.324	14.8	20.0	7 10	16 41.41	-33 0.3	1.576	2.471	14.0	21.3
367103	2006 RC ₂₀		6 9.8 295°02	1°7/ 9.5	18		352083	2006 WB ₁₉₃		6 9.8 152°95	0°3/ 9.8	17	
5 1	17 39.93	-20 31.5	1.486	2.314	17.8	21.3	5 1	17 39.07	-22 12.5	2.730	3.521	11.5	22.3
5 11	17 37.28	-20 13.2	1.381	2.288	14.4	21.0	5 11	17 34.62	-22 12.2	2.642	3.527	9.1	22.2
5 21	17 31.46	-19 53.3	1.296	2.261	10.2	20.7	5 21	17 28.40	-22 10.9	2.577	3.533	6.3	22.0
5 31	17 22.90	-19 32.5	1.232	2.234	5.4	20.3	5 31	17 20.87	-22 8.3	2.538	3.538	3.2	21.8
6 10	17 12.58	-19 11.6	1.193	2.207	1.8	20.0	6 10	17 12.67	-22 4.3	2.528	3.543	0.3	21.5
6 20	17 1.84	-18 52.4	1.179	2.180	6.1	20.2	6 20	17 4.51	-21 59.5	2.547	3.548	3.3	21.8
6 30	16 52.19	-18 37.6	1.188	2.154	11.4	20.4	6 30	16 57.10	-21 54.6	2.594	3.552	6.4	22.0
7 10	16 44.94	-18 29.7	1.218	2.127	16.3	20.6	7 10	16 51.04	-21 50.9	2.667	3.556	9.2	22.2
5737	Itoh		6 9.8 194°80	2°6/10.4	18		303667	2005 MA ₁₈		6 9.8 295°93	2°7/10.6	18	
5 1	17 45.02	-30 47.0	2.282	3.065	13.8	18.3	5 1	17 40.15	-31 36.8	2.110	2.907	14.3	20.5
5 11	17 39.96	-30 59.2	2.187	3.063	11.1	18.1	5 11	17 36.38	-31 36.8	2.012	2.896	11.6	20.3
5 21	17 32.44	-31 5.2	2.113	3.060	8.1	17.9	5 21	17 30.12	-31 28.9	1.935	2.886	8.4	20.1
5 31	17 23.03	-31 2.9	2.064	3.056	4.8	17.7	5 31	17 21.91	-31 11.3	1.882	2.875	5.0	19.9
6 10	17 12.59	-30 50.7	2.043	3.051	2.6	17.6	6 10	17 12.65	-30 43.0	1.856	2.865	2.7	19.7
6 20	17 2.15	-30 28.9	2.050	3.046	4.5	17.7	6 20	17 3.37	-30 5.0	1.856	2.855	4.7	19.8
6 30	16 52.74	-29 59.8	2.084	3.041	7.9	17.9	6 30	16 55.13	-29 20.2	1.883	2.845	8.2	20.0
7 10	16 45.20	-29 26.8	2.144	3.034	11.1	18.1	7 10	16 48.81	-28 32.7	1.935	2.835	11.6	20.2
35782	1999 JW ₁₉		6 9.8 89°22	1°6/10.2	18		365850	2011 UY ₁₀₄		6 9.8 192°77	0°0/ 9.8	17	
5 1	17 45.00	-27 50.6	1.452	2.271	18.6	18.9	5 1	17 45.80	-24 14.6	1.740	2.546	16.5	21.5
5 11	17 40.94	-27 43.2	1.383	2.282	14.9	18.7	5 11	17 41.15	-24 3.3	1.652	2.544	13.2	21.3
5 21	17 33.57	-27 28.6	1.332	2.293	10.5	18.5	5 21	17 33.59	-23 48.1	1.583	2.542	9.3	21.0
5 31	17 23.68	-27 5.2	1.303	2.303	5.6	18.2	5 31	17 23.73	-23 28.4	1.539	2.540	4.7	20.8
6 10	17 12.58	-26 32.7	1.300	2.314	1.6	18.0	6 10	17 12.63	-23 4.0	1.521	2.537	0.1	20.4
6 20	17 1.75	-25 53.3	1.321	2.324	5.4	18.3	6 20	17 1.54	-22 36.6	1.531	2.533	4.9	20.8
6 30	16 52.60	-25 11.2	1.368	2.335	10.1	18.6	6 30	16 51.73	-22 8.8	1.566	2.528	9.5	21.0
7 10	16 46.15	-24 31.3	1.437	2.345	14.3	18.8	7 10	16 44.22	-21 44.0	1.625	2.523	13.5	21.2
441813	2009 KH ₅		6 9.8 350°61	4°9/ 9.5	16		20116	1995 VE ₁		6 9.8 253°08	0°8/ 9.7	18 R	
5 1	17 34.73	-10 58.1	1.642	2.466	16.6	20.9	5 1	17 40.50	-21 0.3	1.997	2.805	14.6	19.6
5 11	17 32.38	-10 46.6	1.559	2.458	13.5	20.7	5 11	17 36.61	-20 59.6	1.902	2.796	11.7	19.3
5 21	17 27.50	-10 43.4	1.496	2.451	10.0	20.5	5 21	17 30.28	-20 58.8	1.827	2.787	8.2	19.1
5 31	17 20.62	-10 50.9	1.455	2.445	6.6	20.3	5 31	17 22.02	-20 57.6	1.777	2.778	4.2	18.8
6 10	17 12.63	-11 10.4	1.438	2.441	4.9	20.1	6 10	17 12.66	-20 56.0	1.753	2.768	0.8	18.6
6 20	17 4.57	-11 42.2	1.446	2.437	6.9	20.2	6 20	17 3.20	-20 54.3	1.757	2.759	4.5	18.8
6 30	16 57.54	-12 25.3	1.478	2.434	10.5	20.4	6 30	16 54.69	-20 53.6	1.788	2.749	8.5	19.0
7 10	16 52.45	-13 17.6	1.533	2.432	14.1	20.7	7 10	16 48.01	-20 55.3	1.842	2.739	12.2	19.2
497751	2006 SU ₂₄₇		6 9.8 221°32	0°5/ 9.7	17		121642	1999 VJ ₂₂₇		6 9.8 230°41	2°7/11.0	18	
5 1	17 43.88	-21 55.4	2.053	2.852	14.6	22.8	5 1	17 43.26	-34 57.2	2.842	3.607	11.8	20.0
5 11	17 39.24	-21 51.7	1.953	2.842	11.7	22.5	5 11	17 38.03	-34 37.1	2.734	3.597	9.6	19.8
5 21	17 32.08	-21 46.7	1.874	2.832	8.2	22.3	5 21	17 30.80	-34 7.7	2.649	3.587	7.1	19.6
5 31	17 22.92	-21 40.1	1.820	2.820	4.2	22.0	5 31	17 22.10	-33 27.4	2.590	3.576	4.5	19.4
6 10	17 12.61	-21 31.7	1.794	2.809	0.5	21.7	6 10	17 12.66	-32 36.1	2.560	3.565	2.7	19.3
6 20	17 2.18	-21 22.0	1.795	2.796	4.5	22.0	6 20	17 3.31	-31 35.3	2.560	3.554	4.0	19.4
6 30	16 52.71	-21 12.7	1.823	2.783	8.6	22.2	6 30	16 54.86	-30 28.1	2.588	3.543	6.6	19.5
7 10	16 45.12	-21 5.6	1.877	2.769	12.3	22.4	7 10	16 47.97	-29 18.3	2.644	3.531	9.3	19.7
400217	2007 CT ₂₀		6 9.8 170°49	4°8/ 8.9	17		72345	2001 BC ₆₉		6 9.8 235°47	0°6/ 9.7	18	
5 1	17 36.87	- 7 40.9	2.546	3.332	12.4	21.8	5 1	17 44.13	-21 27.9	1.920	2.723	15.3	20.0
5 11	17 32.92	- 7 16.7	2.461	3.333	10.2	21.6	5 11	17 39.70	-21 29.0	1.818	2.709	12.3	19.8
5 21	17 27.25	- 6 59.1	2.398	3.334	7.8	21.5	5 21	17 32.58	-21 29.8	1.737	2.695	8.6	19.5
5 31	17 20.29	- 6 50.2	2.359	3.334	5.7	21.3	5 31	17 23.26	-21 29.6	1.680	2.681	4.5	19.3
6 10	17 12.66	- 6 51.4	2.348	3.335	4.9	21.3	6 10	17 12.64	-21 28.1	1.650	2.665	0.6	18.9
6 20	17 5.05	- 7 3.3	2.364	3.336	6.1	21.4	6 20	17 1.82	-21 25.4	1.648	2.649	4.7	19.2
6 30	16 58.14	- 7 25.9	2.406	3.336	8.3	21.5	6 30	16 51.98	-21 22.8	1.672	2.632	9.1	19.4
7 10	16 52.53	- 7 58.0	2.473	3.336	10.7	21.7	7 10	16 44.13	-21 22.2	1.720	2.615	13.1	19.6
280257	2002 XD ₇₄		6 9.8 200°55	1°7/10.0	18		104625	2000 GE ₁₁₂		6 9.8 2°88	2°3/ 9.6	17	
5 1	17 45.22	-26 15.3	2.121	2.914	14.4	21.4	5 1	17 36.19	-18 45.9	1.027	1.888	21.6	19.6
5 11	17 40.31	-26 43.6	2.026	2.910	11.6	21.2	5 11	17 35.07	-18 40.3	0.962	1.886	17.4	19.3
5 21	17 32.84	-27 10.0	1.952	2.906	8.2	20.9	5 21	17 30.20	-18 37.7	0.913	1.886	12.2	19.0
5 31	17 23.31	-27 32.0	1.904	2.901	4.5	20.7	5 31	17 22.27	-18 39.1	0.883	1.886	6.5	18.7
6 10	17 12.61	-27 47.7	1.882	2.895	1.7	20.5	6 10	17 12.66	-18 45.2	0.874	1.888	2.3	18.4
6 20	17 1.80	-27 56.3	1.889	2.889	4.5	20.7	6 20	17 3.08	-18 56.3	0.887	1.891	6.9	18.7
6 30	16 51.97	-27 58.4	1.924	2.882	8.3	20.9	6 30	16 55.26	-19 13.1	0.921	1.895	12.6	19.1
7 10	16 44.08	-27 56.6	1.983	2.875	11.7	21.1	7 10	16 50.51	-19 36.0	0.973	1.901	17.6	19.4
475281	2005 WK ₁₅₀		6 9.8 193°26	0°6/ 9.6	18		139897	2001 RK ₉₅		6 9.8 262°36	1°5/ 9.6	18	
5 1	17 38.68	-23 5.8											

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
104333	2000 FO ₉		6 9.8 260°44	0°7/ 9.7 16			37434	2002 AQ ₂₅		6 9.8 77°90	2°9/ 9.2 18		
5 1	17 39.31	-21 32.3	2.116	2.922	14.0	20.9	5 1	17 37.68	-15 25.6	2.269	3.072	13.3	19.2
5 11	17 35.49	-21 24.0	2.021	2.915	11.1	20.6	5 11	17 33.78	-15 1.5	2.191	3.081	10.6	19.0
5 21	17 29.39	-21 14.5	1.947	2.907	7.8	20.4	5 21	17 27.94	-14 39.7	2.135	3.090	7.5	18.8
5 31	17 21.52	-21 3.8	1.899	2.899	4.0	20.2	5 31	17 20.68	-14 21.6	2.105	3.099	4.5	18.7
6 10	17 12.68	-20 52.4	1.877	2.892	0.8	19.9	6 10	17 12.73	-14 8.5	2.101	3.108	2.9	18.6
6 20	17 3.78	-20 40.9	1.882	2.884	4.3	20.2	6 20	17 4.86	-14 1.5	2.125	3.117	4.9	18.7
6 30	16 55.80	-20 30.9	1.915	2.876	8.1	20.4	6 30	16 57.87	-14 1.2	2.176	3.127	7.9	18.9
7 10	16 49.52	-20 24.0	1.971	2.868	11.6	20.6	7 10	16 52.38	-14 7.9	2.251	3.136	10.8	19.1
50512	2000 DA ₁₀₃		6 9.8 53°13	0°1/ 9.8 17			335580	2006 DQ ₂₂		6 9.9 57°26	3°9/ 10.5 18		
5 1	17 42.02	-21 49.0	1.509	2.332	17.8	19.2	5 1	17 42.85	-32 11.5	1.838	2.638	16.0	20.9
5 11	17 38.46	-22 4.9	1.437	2.340	14.2	18.9	5 11	17 38.91	-32 42.0	1.756	2.640	13.0	20.7
5 21	17 31.86	-22 21.5	1.384	2.348	9.9	18.7	5 21	17 32.09	-33 5.7	1.694	2.642	9.6	20.5
5 31	17 22.88	-22 37.2	1.354	2.355	5.0	18.4	5 31	17 23.00	-33 18.9	1.655	2.645	6.1	20.3
6 10	17 12.66	-22 51.0	1.348	2.364	0.1	18.1	6 10	17 12.69	-33 19.1	1.642	2.647	3.9	20.2
6 20	17 2.52	-23 2.3	1.369	2.372	5.1	18.5	6 20	17 2.41	-33 6.0	1.655	2.650	5.7	20.3
6 30	16 53.79	-23 12.1	1.414	2.380	9.8	18.8	6 30	16 53.42	-32 42.2	1.694	2.652	9.2	20.5
7 10	16 47.49	-23 22.1	1.481	2.389	14.0	19.0	7 10	16 46.70	-32 11.8	1.756	2.655	12.6	20.7
62958	2000 VX ₃₇		6 9.8 227°79	2°8/ 9.5 18			504740	2009 VD ₉₅		6 9.9 183°56	0°7/ 9.9 17		
5 1	17 38.96	-12 19.6	2.767	3.551	11.6	19.3	5 1	17 43.42	-24 46.8	2.314	3.105	13.4	23.0
5 11	17 34.55	-12 25.3	2.666	3.543	9.3	19.1	5 11	17 38.54	-24 58.7	2.222	3.106	10.7	22.8
5 21	17 28.41	-12 36.0	2.587	3.534	6.8	18.9	5 21	17 31.40	-25 8.6	2.151	3.106	7.5	22.6
5 31	17 20.93	-12 52.2	2.535	3.525	4.2	18.7	5 31	17 22.52	-25 15.1	2.106	3.105	3.9	22.3
6 10	17 12.70	-13 14.3	2.511	3.516	2.8	18.6	6 10	17 12.71	-25 17.4	2.089	3.104	0.7	22.1
6 20	17 4.38	-13 42.0	2.516	3.506	4.4	18.7	6 20	17 2.87	-25 15.4	2.101	3.102	3.9	22.3
6 30	16 56.68	-14 14.9	2.549	3.496	7.1	18.9	6 30	16 53.95	-25 10.3	2.141	3.100	7.5	22.6
7 10	16 50.19	-14 52.4	2.609	3.486	9.8	19.0	7 10	16 46.74	-25 4.0	2.206	3.097	10.7	22.7
475931	2007 EL ₈₀		6 9.8 178°71	4°3/ 11.1 18			314133	2005 EU ₁₈₀		6 9.9 188°98	4°9/ 9.1 17		
5 1	17 42.60	-38 24.5	2.960	3.716	11.5	22.3	5 1	17 42.33	-12 28.5	1.697	2.506	16.8	21.4
5 11	17 37.60	-38 45.6	2.867	3.717	9.6	22.2	5 11	17 38.25	-11 53.7	1.615	2.506	13.6	21.2
5 21	17 30.57	-38 58.4	2.796	3.718	7.4	22.0	5 21	17 31.50	-11 23.6	1.553	2.505	10.0	21.0
5 31	17 22.01	-39 0.2	2.750	3.718	5.4	21.9	5 31	17 22.66	-11 1.2	1.514	2.504	6.5	20.8
6 10	17 12.68	-38 49.6	2.731	3.718	4.3	21.8	6 10	17 12.71	-10 48.7	1.501	2.502	4.9	20.7
6 20	17 3.40	-38 26.5	2.741	3.718	5.0	21.9	6 20	17 2.76	-10 47.9	1.513	2.500	7.1	20.8
6 30	16 54.99	-37 52.9	2.778	3.717	6.9	22.0	6 30	16 53.96	-10 59.2	1.551	2.498	10.8	21.0
7 10	16 48.13	-37 11.9	2.841	3.716	9.1	22.1	7 10	16 47.23	-11 22.1	1.611	2.496	14.4	21.2
105802	2000 SV ₁₂₈		6 9.8 313°08	3°6/ 10.1 18			474068	2016 JC ₁₆		6 9.9 295°18	0°2/ 9.9 17		
5 1	17 40.22	-30 2.5	1.995	2.798	14.8	19.4	5 1	17 40.53	-22 56.2	1.536	2.361	17.5	21.4
5 11	17 36.80	-30 50.6	1.896	2.783	12.1	19.1	5 11	17 37.72	-23 4.9	1.435	2.339	14.1	21.1
5 21	17 30.69	-31 35.8	1.818	2.769	8.9	18.9	5 21	17 31.76	-23 12.9	1.353	2.317	10.0	20.8
5 31	17 22.36	-32 14.6	1.764	2.755	5.5	18.7	5 31	17 23.09	-23 19.2	1.293	2.295	5.2	20.5
6 10	17 12.68	-32 43.8	1.736	2.742	3.6	18.5	6 10	17 12.71	-23 22.6	1.257	2.272	0.2	20.0
6 20	17 2.74	-33 1.5	1.734	2.728	5.5	18.6	6 20	17 1.93	-23 22.9	1.247	2.250	5.5	20.4
6 30	16 53.77	-33 8.1	1.758	2.715	9.0	18.8	6 30	16 52.27	-23 21.4	1.261	2.228	10.7	20.6
7 10	16 46.79	-33 6.2	1.806	2.703	12.4	19.0	7 10	16 45.01	-23 20.7	1.296	2.207	15.4	20.8
42194	2001 DP ₁₀		6 9.8 64°40	5°8/ 8.7 18			166596	2002 RG ₁₇₉		6 9.9 207°39	0°4/ 9.7 18		
5 1	17 36.26	-5 59.7	2.349	3.137	13.3	18.8	5 1	17 40.11	-22 19.0	2.314	3.113	13.1	21.1
5 11	17 32.56	-5 22.7	2.272	3.142	11.0	18.7	5 11	17 35.88	-22 11.7	2.220	3.110	10.4	20.9
5 21	17 27.06	-4 53.4	2.216	3.147	8.6	18.5	5 21	17 29.53	-22 2.9	2.148	3.106	7.3	20.7
5 31	17 20.22	-4 34.6	2.184	3.153	6.6	18.4	5 31	17 21.57	-21 52.3	2.102	3.102	3.7	20.4
6 10	17 12.72	-4 28.3	2.179	3.158	5.9	18.4	6 10	17 12.74	-21 40.2	2.083	3.098	0.4	20.1
6 20	17 5.27	-4 35.5	2.200	3.163	7.0	18.4	6 20	17 3.89	-21 27.3	2.092	3.094	3.9	20.4
6 30	16 58.60	-4 56.0	2.246	3.169	9.2	18.6	6 30	16 55.91	-21 15.0	2.129	3.089	7.5	20.6
7 10	16 53.31	-5 28.4	2.316	3.174	11.5	18.7	7 10	16 49.52	-21 5.0	2.191	3.084	10.7	20.8
279245	2009 VU ₃₃		6 9.8 99°46	3°1/ 8.8 17			280812	2005 TL ₁₉₁		6 9.9 267°13	1°7/ 9.5 18		
5 1	17 41.61	-18 48.5	1.813	2.624	15.8	20.7	5 1	17 38.16	-17 51.7	2.444	3.243	12.5	21.0
5 11	17 37.34	-17 46.3	1.738	2.633	12.5	20.5	5 11	17 34.29	-17 47.6	2.339	3.228	10.0	20.8
5 21	17 30.61	-16 42.0	1.683	2.642	8.8	20.3	5 21	17 28.44	-17 45.1	2.256	3.213	7.1	20.6
5 31	17 22.07	-15 38.1	1.654	2.651	5.1	20.1	5 31	17 21.03	-17 44.5	2.199	3.198	3.8	20.4
6 10	17 12.69	-14 38.1	1.651	2.659	3.2	20.0	6 10	17 12.74	-17 46.2	2.170	3.182	1.7	20.2
6 20	17 3.51	-13 45.6	1.675	2.668	5.9	20.2	6 20	17 4.33	-17 50.5	2.168	3.167	4.2	20.4
6 30	16 55.53	-13 3.6	1.725	2.676	9.6	20.5	6 30	16 56.62	-17 58.1	2.195	3.151	7.5	20.5
7 10	16 49.54	-12 33.8	1.798	2.684	13.0	20.7	7 10	16 50.31	-18 9.4	2.246	3.135	10.6	20.7
492283	2013 YG ₁₇		6 9.8 241°46	1°1/ 9.6 18			126656	2002 CY ₂₀₂		6 9.9 211°90	0°8/ 10.0 18		
5 1	17 41.70	-20 21.5	2.261	3.058	13.5	22.4	5 1	17 43.18	-25 34.8	2.330	3.120	13.3	21.7
5 11	17 37.29	-20 10.9	2.154	3.043	10.8	22.2	5 11	17 38.41	-25 37.7	2.229	3.113	10.6	21.5
5 21	17 30.63	-19 59.6	2.069	3.026	7.6	21.9	5 21	17 31.36	-25 37.5	2.151	3.105	7.5	21.3
5 31	17 22.18	-19 47.9	2.010	3.009	4.0	21.7	5 31	17 22.53	-25 33.0	2.098	3.097	3.9	21.0
6 10	17 12.69	-19 36.0	1.977	2.992	1.2	21.4	6 10	17 12.73	-25 23.7	2.073	3.088	0.8	20.8
6 20	17 3.05	-19 24.8	1.974	2.973	4.3	21.6	6 20	17 2.85	-25 9.8	2.077	3.078	3.9	21.0
6 30	16 54.22	-19 15.6	1.997	2.955	8.1	21.8	6 30	16 53.86	-24 53.0	2.108	3.068	7.6	21.2
7 10	16 47.01	-19 10.0	2.046	2.935	11.5	22.0	7 10	16 46.57	-24 35.7	2.165	3.057	10.9	21.4
123558	2000 XD ₃₃		6 9.8 63°22	0°8/ 9.9 18			313165	2001 FC ₆₅		6 9.9 71°72	3°1/ 9.6 17		
5 1	17 41.85	-22 10.6	2.249										

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
32255	2000 OT ₅₁		6 9.9 284°94	3°9/10.9	18		147269	2002 YP ₁₆		6 9.9 152°84	0°3/ 9.9	17	
5 1	17 43.52	-33 53.7	1.816	2.613	16.3	17.9	5 1	17 43.90	-24 18.3	1.954	2.755	15.1	20.7
5 11	17 39.81	-33 56.7	1.708	2.590	13.4	17.6	5 11	17 39.25	-24 15.9	1.871	2.762	12.0	20.5
5 21	17 33.01	-33 49.3	1.619	2.567	10.0	17.3	5 21	17 32.06	-24 10.8	1.810	2.767	8.4	20.3
5 31	17 23.64	-33 27.9	1.554	2.543	6.4	17.1	5 31	17 22.92	-24 1.8	1.773	2.773	4.3	20.0
6 10	17 12.74	-32 50.4	1.513	2.520	3.9	16.9	6 10	17 12.80	-23 48.8	1.763	2.778	0.3	19.7
6 20	17 1.64	-31 57.4	1.499	2.496	5.9	16.9	6 20	17 2.75	-23 32.7	1.780	2.782	4.3	20.1
6 30	16 51.75	-30 52.7	1.511	2.472	9.8	17.1	6 30	16 53.85	-23 15.4	1.824	2.786	8.4	20.3
7 10	16 44.24	-29 42.9	1.546	2.449	13.8	17.3	7 10	16 46.96	-22 59.4	1.893	2.790	12.0	20.5
105213	2000 OV ₅₂		6 9.9 141°83	4°9/10.8	18		395578	2011 UF ₂₅₉		6 9.9 240°37	0°9/ 9.6	17	
5 1	17 45.08	-39 38.5	3.042	3.787	11.5	19.5	5 1	17 38.79	-22 9.9	2.461	3.259	12.5	20.9
5 11	17 39.60	-40 27.7	2.958	3.798	9.6	19.4	5 11	17 34.71	-21 43.0	2.362	3.251	9.9	20.7
5 21	17 32.01	-41 9.2	2.897	3.809	7.6	19.3	5 21	17 28.67	-21 13.5	2.285	3.243	6.9	20.5
5 31	17 22.82	-41 39.5	2.862	3.819	5.8	19.2	5 31	17 21.14	-20 41.7	2.235	3.235	3.6	20.2
6 10	17 12.76	-41 56.3	2.854	3.829	4.9	19.1	6 10	17 12.82	-20 8.7	2.212	3.226	0.9	20.0
6 20	17 2.70	-41 58.8	2.875	3.838	5.6	19.2	6 20	17 4.50	-19 36.1	2.218	3.218	3.9	20.2
6 30	16 53.50	-41 48.2	2.923	3.847	7.2	19.3	6 30	16 56.98	-19 6.0	2.251	3.209	7.3	20.4
7 10	16 45.91	-41 27.6	2.996	3.856	9.2	19.4	7 10	16 50.92	-18 40.2	2.310	3.200	10.4	20.6
175148	2005 EY ₃₀		6 9.9 219°35	1°1/ 9.6	17		134223	2005 WX ₁₉₃		6 9.9 197°76	5°4/10.4	18	
5 1	17 44.00	-21 14.8	1.852	2.657	15.7	21.2	5 1	17 46.96	-35 51.4	2.157	2.931	14.7	20.5
5 11	17 39.59	-21 0.5	1.756	2.649	12.6	21.0	5 11	17 42.06	-36 48.6	2.065	2.929	12.2	20.3
5 21	17 32.49	-20 44.6	1.682	2.641	8.8	20.7	5 21	17 34.30	-37 39.3	1.995	2.926	9.4	20.2
5 31	17 23.23	-20 27.3	1.632	2.632	4.6	20.5	5 31	17 24.22	-38 18.5	1.949	2.923	6.8	20.0
6 10	17 12.75	-20 9.0	1.608	2.622	1.1	20.2	6 10	17 12.78	-38 42.1	1.929	2.919	5.4	19.9
6 20	17 2.19	-19 51.0	1.611	2.612	4.9	20.4	6 20	17 1.19	-38 48.5	1.936	2.915	6.6	20.0
6 30	16 52.71	-19 35.2	1.642	2.601	9.3	20.7	6 30	16 50.72	-38 39.0	1.970	2.911	9.2	20.1
7 10	16 45.29	-19 23.9	1.695	2.590	13.2	20.9	7 10	16 42.42	-38 17.5	2.028	2.906	12.1	20.3
29889	1999 GN ₃₆		6 9.9 32°93	4°9/ 8.4	18 R		379617	2011 CK ₁₁₂		6 9.9 251°43	4°0/ 8.9	18	
5 1	17 39.30	-15 53.8	1.564	2.388	17.3	17.9	5 1	17 41.56	-14 20.2	1.959	2.761	15.1	21.9
5 11	17 35.96	-14 40.7	1.491	2.392	13.9	17.7	5 11	17 37.51	-13 45.9	1.856	2.744	12.2	21.7
5 21	17 29.92	-13 27.3	1.438	2.397	10.0	17.4	5 21	17 31.00	-13 13.7	1.774	2.726	8.9	21.4
5 31	17 21.84	-12 17.8	1.409	2.402	6.4	17.2	5 31	17 22.50	-12 45.8	1.716	2.708	5.6	21.2
6 10	17 12.77	-11 16.7	1.404	2.407	4.9	17.2	6 10	17 12.82	-12 24.3	1.684	2.688	4.0	21.0
6 20	17 3.86	-10 28.3	1.425	2.412	7.4	17.3	6 20	17 2.96	-12 11.2	1.679	2.669	6.3	21.1
6 30	16 56.24	-9 55.4	1.470	2.418	11.1	17.5	6 30	16 53.98	-12 7.9	1.701	2.649	9.9	21.3
7 10	16 50.77	-9 38.9	1.536	2.424	14.7	17.8	7 10	16 46.78	-12 15.1	1.746	2.628	13.5	21.5
114181	2002 VK ₈₀		6 9.9 321°48	2°6/ 9.7	18		469548	2003 TD ₂₀		6 9.9 293°54	0°4/ 9.8	16	
5 1	17 38.75	-16 31.0	1.405	2.238	18.4	19.1	5 1	17 41.24	-23 54.6	1.904	2.712	15.2	22.1
5 11	17 36.30	-16 36.0	1.318	2.226	14.8	18.9	5 11	17 37.72	-23 33.4	1.783	2.677	12.3	21.8
5 21	17 30.71	-16 46.6	1.249	2.214	10.6	18.6	5 21	17 31.46	-23 7.4	1.682	2.642	8.7	21.5
5 31	17 22.52	-17 3.5	1.202	2.202	5.8	18.3	5 31	17 22.88	-22 36.1	1.605	2.606	4.5	21.2
6 10	17 12.76	-17 26.8	1.179	2.192	2.6	18.0	6 10	17 12.82	-22 0.0	1.554	2.570	0.4	20.8
6 20	17 2.76	-17 56.0	1.180	2.181	6.2	18.2	6 20	17 2.36	-21 20.7	1.531	2.533	4.9	21.1
6 30	16 53.99	-18 30.5	1.204	2.171	11.1	18.5	6 30	16 52.75	-20 41.3	1.533	2.496	9.6	21.2
7 10	16 47.65	-19 9.6	1.250	2.162	15.7	18.7	7 10	16 45.07	-20 5.6	1.560	2.459	13.9	21.4
47468	1999 YS ₁₃		6 9.9 267°30	1°9/ 9.6	18		130654	2000 SN ₉₄		6 9.9 174°87	1°1/ 9.6	17	
5 1	17 42.01	-19 3.7	1.757	2.570	16.1	19.0	5 1	17 43.77	-22 11.7	1.615	2.430	17.2	19.9
5 11	17 38.32	-18 51.9	1.653	2.550	13.0	18.8	5 11	17 39.68	-21 46.1	1.533	2.431	13.7	19.6
5 21	17 31.83	-18 40.6	1.570	2.530	9.2	18.5	5 21	17 32.66	-21 17.4	1.471	2.432	9.6	19.4
5 31	17 23.01	-18 30.3	1.509	2.509	5.0	18.2	5 31	17 23.34	-20 45.9	1.432	2.433	4.9	19.1
6 10	17 12.76	-18 21.8	1.475	2.488	1.9	18.0	6 10	17 12.83	-20 13.0	1.419	2.434	1.2	18.9
6 20	17 2.22	-18 15.8	1.467	2.467	5.5	18.1	6 20	17 2.39	-19 40.8	1.432	2.434	5.3	19.1
6 30	16 52.67	-18 14.0	1.484	2.445	10.0	18.3	6 30	16 53.30	-19 12.3	1.471	2.433	9.9	19.4
7 10	16 45.18	-18 17.7	1.525	2.423	14.2	18.5	7 10	16 46.54	-18 50.4	1.532	2.433	14.0	19.7
386358	2008 TX ₄₅		6 9.9 224°94	2°0/ 9.4	17		53495	2000 AV ₆₉		6 9.9 153°11	2°5/ 9.5	18	
5 1	17 41.08	-17 31.2	2.602	3.391	12.1	22.8	5 1	17 37.56	-14 52.4	2.495	3.291	12.4	19.5
5 11	17 36.41	-17 13.8	2.495	3.378	9.7	22.6	5 11	17 33.63	-14 48.7	2.406	3.292	9.9	19.3
5 21	17 29.81	-16 57.0	2.411	3.364	6.9	22.4	5 21	17 27.87	-14 48.3	2.340	3.293	7.0	19.2
5 31	17 21.72	-16 41.4	2.354	3.350	3.8	22.1	5 31	17 20.73	-14 52.1	2.299	3.293	4.1	19.0
6 10	17 12.78	-16 28.0	2.324	3.335	2.0	22.0	6 10	17 12.87	-15 0.4	2.286	3.294	2.5	18.9
6 20	17 3.76	-16 17.6	2.324	3.319	4.2	22.1	6 20	17 4.99	-15 13.4	2.300	3.295	4.4	19.0
6 30	16 55.42	-16 11.4	2.352	3.303	7.4	22.3	6 30	16 57.85	-15 31.2	2.343	3.295	7.3	19.2
7 10	16 48.46	-16 10.1	2.406	3.286	10.4	22.5	7 10	16 52.07	-15 53.7	2.410	3.296	10.2	19.4
206643	2003 XL ₁₃		6 9.9 251°93	0°4/ 9.8	18		506574	2005 UT ₂₃₁		6 9.9 221°45	4°1/ 8.6	17	
5 1	17 41.57	-20 51.7	2.307	3.103	13.3	21.0	5 1	17 41.38	-14 41.5	2.122	2.920	14.2	23.7
5 11	17 37.24	-21 3.8	2.199	3.086	10.6	20.8	5 11	17 37.00	-13 45.5	2.026	2.912	11.5	23.5
5 21	17 30.66	-21 16.8	2.112	3.068	7.4	20.6	5 21	17 30.40	-12 49.9	1.952	2.903	8.4	23.2
5 31	17 22.27	-21 29.9	2.050	3.050	3.8	20.3	5 31	17 22.09	-11 57.1	1.904	2.894	5.4	23.0
6 10	17 12.79	-21 42.7	2.017	3.032	0.4	20.0	6 10	17 12.86	-11 10.3	1.882	2.884	4.1	22.9
6 20	17 3.10	-21 54.6	2.012	3.013	4.0	20.3	6 20	17 3.59	-10 32.2	1.889	2.873	6.2	23.1
6 30	16 54.15	-22 6.1	2.034	2.993	7.8	20.5	6 30	16 55.22	-10 5.1	1.922	2.862	9.4	23.2
7 10	16 46.79	-22 18.1	2.082	2.974	11.3	20.7	7 10	16 48.52	-9 50.1	1.979	2.851	12.6	23.4
99903	2002 QG ₄₈		6 9.9 307°47	0°1/ 9.9	17		253422	2003 QT ₄₅		6 9.9 325°99	3°2/10.2	17	
5 1	17 39.52	-23 23.8											

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
474346	2002 <i>PH</i> ₁₈₅		6 9.9 230°89	3°5/10.7	18		136642	1995 <i>DF</i> ₈		6 9.9 211°72	1°8/ 9.6	17	
5 1	17 43.42	-33 39.4	2.461	3.237	13.1	21.7	5 1	17 42.02	-18 52.4	2.028	2.831	14.6	20.5
5 11	17 38.73	-33 57.8	2.357	3.227	10.7	21.5	5 11	17 37.73	-18 39.1	1.935	2.826	11.7	20.3
5 21	17 31.68	-34 9.3	2.275	3.215	8.0	21.3	5 21	17 31.04	-18 26.2	1.863	2.821	8.2	20.1
5 31	17 22.78	-34 11.2	2.219	3.204	5.2	21.1	5 31	17 22.49	-18 14.3	1.816	2.815	4.4	19.8
6 10	17 12.85	-34 1.6	2.189	3.191	3.5	21.0	6 10	17 12.90	-18 4.0	1.796	2.808	1.8	19.6
6 20	17 2.83	-33 40.6	2.187	3.179	4.9	21.0	6 20	17 3.26	-17 56.4	1.803	2.802	4.8	19.8
6 30	16 53.73	-33 9.9	2.213	3.165	7.7	21.2	6 30	16 54.58	-17 52.5	1.837	2.795	8.7	20.0
7 10	16 46.38	-32 33.1	2.264	3.152	10.6	21.3	7 10	16 47.70	-17 53.7	1.895	2.787	12.2	20.2
503101	2015 <i>FE</i> ₃₁₅		6 9.9 126°72	1°0/ 9.7	17		155341	2006 <i>SA</i> ₂₁₈		6 9.9 197°11	19°5/ 8.4	18	
5 1	17 41.88	-19 39.3	2.007	2.811	14.7	21.9	5 1	17 55.42	+ 9 17.4	1.066	1.834	27.0	20.9
5 11	17 37.53	-19 44.4	1.926	2.818	11.7	21.7	5 11	17 50.36	+11 14.2	1.002	1.833	24.4	20.7
5 21	17 30.83	-19 50.7	1.867	2.825	8.1	21.5	5 21	17 41.02	+12 46.0	0.951	1.830	21.9	20.5
5 31	17 22.31	-19 57.9	1.832	2.832	4.2	21.3	5 31	17 28.03	+13 37.7	0.916	1.824	20.0	20.3
6 10	17 12.87	-20 5.7	1.824	2.839	1.0	21.0	6 10	17 12.84	+13 37.0	0.898	1.817	19.5	20.2
6 20	17 3.46	-20 14.2	1.844	2.845	4.4	21.3	6 20	16 57.42	+12 39.0	0.898	1.807	20.6	20.3
6 30	16 55.10	-20 23.8	1.891	2.851	8.2	21.5	6 30	16 43.85	+10 47.7	0.917	1.795	23.1	20.4
7 10	16 48.57	-20 35.6	1.962	2.857	11.7	21.8	7 10	16 33.71	+ 8 15.7	0.952	1.781	26.1	20.5
389942	2012 <i>TF</i> ₁₅₁		6 9.9 241°22	1°2/ 9.6	17		143794	2003 <i>WY</i> ₁₀₄		6 9.9 266°83	0°2/ 9.9	18	R
5 1	17 40.39	-20 44.2	2.310	3.109	13.2	21.8	5 1	17 42.86	-24 17.7	1.664	2.479	16.8	20.8
5 11	17 36.19	-20 25.2	2.207	3.096	10.5	21.6	5 11	17 39.28	-24 11.8	1.564	2.462	13.5	20.5
5 21	17 29.85	-20 4.7	2.126	3.083	7.4	21.4	5 21	17 32.66	-24 2.5	1.483	2.444	9.6	20.2
5 31	17 21.83	-19 43.1	2.070	3.070	3.9	21.2	5 31	17 23.53	-23 48.6	1.426	2.427	5.0	19.9
6 10	17 12.88	-19 21.2	2.042	3.056	1.2	20.9	6 10	17 12.89	-23 29.9	1.393	2.409	0.2	19.5
6 20	17 3.84	-19 0.3	2.042	3.042	4.2	21.1	6 20	17 2.00	-23 7.3	1.387	2.390	5.1	19.8
6 30	16 55.62	-18 42.0	2.070	3.027	7.8	21.3	6 30	16 52.26	-22 43.3	1.406	2.371	10.0	20.1
7 10	16 48.96	-18 28.1	2.122	3.012	11.2	21.5	7 10	16 44.82	-22 21.4	1.448	2.353	14.4	20.3
416247	2003 <i>CD</i> ₇		6 9.9 77°25	5°1/ 9.5	17		88207	2000 <i>YV</i> ₁₁₉		6 9.9 358°15	0°6/ 9.7	17	
5 1	17 41.42	-10 15.9	1.673	2.481	17.0	20.2	5 1	17 38.34	-23 9.9	2.254	3.058	13.3	19.8
5 11	17 37.43	- 9 59.1	1.604	2.493	13.8	20.0	5 11	17 34.53	-22 44.0	2.165	3.058	10.5	19.6
5 21	17 30.86	- 9 50.7	1.555	2.504	10.2	19.8	5 21	17 28.63	-22 14.9	2.098	3.057	7.3	19.4
5 31	17 22.35	- 9 53.1	1.529	2.516	6.8	19.6	5 31	17 21.18	-21 43.0	2.057	3.057	3.7	19.1
6 10	17 12.88	-10 7.4	1.528	2.528	5.1	19.6	6 10	17 12.94	-21 9.3	2.042	3.057	0.6	18.9
6 20	17 3.52	-10 33.7	1.553	2.539	7.0	19.7	6 20	17 4.75	-20 35.5	2.056	3.057	4.0	19.2
6 30	16 55.37	-11 10.9	1.603	2.551	10.4	19.9	6 30	16 57.48	-20 4.0	2.097	3.057	7.5	19.4
7 10	16 49.26	-11 57.1	1.675	2.563	13.8	20.2	7 10	16 51.80	-19 36.8	2.162	3.058	10.7	19.6
243549	2010 <i>JF</i> ₁₅₈		6 9.9 140°07	0°9/ 9.8	17		192826	1999 <i>VO</i> ₉₄		6 9.9 171°08	3°1/ 9.0	18	
5 1	17 40.53	-19 37.4	2.168	2.970	13.8	21.3	5 1	17 40.44	-15 45.9	2.302	3.098	13.3	20.7
5 11	17 36.34	-19 45.7	2.082	2.973	11.0	21.1	5 11	17 36.01	-15 8.6	2.216	3.101	10.6	20.6
5 21	17 29.94	-19 55.3	2.019	2.977	7.6	20.9	5 21	17 29.56	-14 32.3	2.151	3.104	7.6	20.4
5 31	17 21.86	-20 5.9	1.980	2.980	4.0	20.7	5 31	17 21.63	-13 58.9	2.113	3.106	4.6	20.2
6 10	17 12.89	-20 17.0	1.969	2.983	0.9	20.5	6 10	17 12.93	-13 30.1	2.101	3.107	3.1	20.1
6 20	17 3.91	-20 28.7	1.985	2.986	4.1	20.7	6 20	17 4.29	-13 7.6	2.118	3.108	5.1	20.2
6 30	16 55.85	-20 41.3	2.029	2.989	7.8	21.0	6 30	16 56.52	-12 52.9	2.162	3.109	8.2	20.4
7 10	16 49.47	-20 55.4	2.097	2.992	11.1	21.2	7 10	16 50.29	-12 46.7	2.231	3.109	11.2	20.6
322049	2010 <i>VU</i> ₆₁		6 9.9 287°89	0°8/ 9.9	17		359839	2011 <i>UV</i> ₃₃₈		6 9.9 243°48	2°3/ 9.3	18	
5 1	17 41.95	-23 48.4	1.515	2.338	17.8	20.8	5 1	17 38.49	-16 35.1	2.494	3.290	12.4	22.1
5 11	17 39.00	-24 4.7	1.414	2.317	14.4	20.5	5 11	17 34.47	-16 15.7	2.392	3.279	9.9	21.9
5 21	17 32.78	-24 20.5	1.332	2.295	10.2	20.2	5 21	17 28.55	-15 57.5	2.313	3.267	7.1	21.7
5 31	17 23.73	-24 34.0	1.272	2.273	5.4	19.8	5 31	17 21.15	-15 41.5	2.259	3.255	4.1	21.5
6 10	17 12.87	-24 43.4	1.236	2.251	0.8	19.5	6 10	17 12.94	-15 28.7	2.233	3.242	2.4	21.4
6 20	17 1.58	-24 47.8	1.225	2.229	5.6	19.7	6 20	17 4.65	-15 20.3	2.235	3.230	4.5	21.5
6 30	16 51.42	-24 48.3	1.239	2.207	10.8	20.0	6 30	16 57.07	-15 17.1	2.265	3.217	7.6	21.7
7 10	16 43.75	-24 47.7	1.275	2.185	15.6	20.2	7 10	16 50.86	-15 19.8	2.320	3.203	10.6	21.8
132673	2002 <i>NO</i> ₁₂		6 9.9 335°24	1°7/10.3	18		72503	2001 <i>DT</i> ₆₈		6 9.9 172°50	1°1/ 9.7	17	
5 1	17 38.94	-28 55.1	1.643	2.462	16.8	19.4	5 1	17 44.53	-20 55.7	1.940	2.741	15.2	20.1
5 11	17 36.09	-28 39.7	1.554	2.454	13.5	19.2	5 11	17 39.76	-20 44.5	1.854	2.744	12.1	19.9
5 21	17 30.31	-28 15.8	1.485	2.446	9.6	18.9	5 21	17 32.46	-20 32.4	1.789	2.747	8.5	19.6
5 31	17 22.22	-27 42.2	1.439	2.438	5.3	18.7	5 31	17 23.20	-20 19.4	1.749	2.749	4.4	19.4
6 10	17 12.90	-26 59.1	1.417	2.431	1.7	18.4	6 10	17 12.92	-20 5.9	1.736	2.751	1.1	19.2
6 20	17 3.58	-26 8.7	1.422	2.425	5.0	18.6	6 20	17 2.68	-19 52.8	1.751	2.751	4.6	19.4
6 30	16 55.56	-25 15.1	1.451	2.419	9.5	18.9	6 30	16 53.54	-19 41.9	1.792	2.752	8.7	19.7
7 10	16 49.83	-24 23.4	1.503	2.414	13.6	19.1	7 10	16 46.38	-19 34.8	1.858	2.751	12.3	19.9
208554	2002 <i>AT</i> ₁₇₇		6 9.9 228°85	3°0/10.4	17		62786	2000 <i>UQ</i> ₂₄		6 9.9 304°57	0°9/ 9.8	18	
5 1	17 46.72	-30 19.3	1.768	2.566	16.6	20.9	5 1	17 39.90	-19 11.3	1.613	2.436	16.9	19.2
5 11	17 42.28	-30 34.8	1.671	2.556	13.5	20.6	5 11	17 37.06	-19 30.6	1.510	2.413	13.6	18.9
5 21	17 34.69	-30 44.0	1.594	2.545	9.8	20.4	5 21	17 31.26	-19 54.1	1.426	2.390	9.7	18.6
5 31	17 24.53	-30 43.3	1.540	2.534	5.8	20.1	5 31	17 22.91	-20 21.3	1.365	2.367	5.1	18.3
6 10	17 12.87	-30 30.5	1.512	2.522	3.0	19.9	6 10	17 12.93	-20 51.1	1.329	2.344	0.9	17.9
6 20	17 1.06	-30 5.5	1.510	2.509	5.5	20.0	6 20	17 2.51	-21 22.1	1.319	2.322	5.4	18.2
6 30	16 50.52	-29 31.1	1.535	2.496	9.7	20.3	6 30	16 53.06	-21 53.9	1.333	2.299	10.3	18.4
7 10	16 42.41	-28 52.4	1.583	2.482	13.8	20.5	7 10	16 45.80	-22 26.6	1.369	2.278	14.8	18.6
59714	1999 <i>JG</i> ₁₂₈		6 9.9 107°28	5°9/10.4	18	R	416446	200					

EPHEMERIDES

6 9.9

6 9.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
88069	2000 VY ₅₀		6 9.9 310°33	4.1/ 8.1	18		161813	2006 WW ₂₆		6 9.9 336°50	0.1/ 9.9	18	
5 1	17 38.42	-17 14.0	2.039	2.848	14.3	18.6	5 1	17 37.09	-21 48.4	1.248	2.094	19.5	19.4
5 11	17 34.80	-15 51.0	1.941	2.835	11.5	18.4	5 11	17 35.53	-22 7.1	1.165	2.082	15.7	19.1
5 21	17 28.96	-14 24.2	1.866	2.822	8.3	18.2	5 21	17 30.54	-22 27.4	1.101	2.070	11.1	18.8
5 31	17 21.41	-12 57.0	1.817	2.809	5.3	18.0	5 31	17 22.64	-22 48.2	1.056	2.059	5.7	18.4
6 10	17 12.95	-11 33.8	1.794	2.797	4.1	17.9	6 10	17 12.98	-23 8.0	1.035	2.050	0.1	18.0
6 20	17 4.50	-10 19.2	1.800	2.785	6.4	18.0	6 20	17 3.09	-23 25.6	1.036	2.041	5.9	18.4
6 30	16 56.96	-9 17.2	1.831	2.773	9.8	18.2	6 30	16 54.61	-23 41.5	1.060	2.034	11.4	18.7
7 10	16 51.11	-8 30.1	1.886	2.761	13.0	18.3	7 10	16 48.88	-23 57.4	1.104	2.027	16.4	18.9
302317	2002 AS ₄₇		6 9.9 130°83	2.2/ 9.5	18		393679	2004 RS ₂₄₇		6 9.9 309°90	3.9/ 8.3	17	
5 1	17 38.53	-16 14.3	2.487	3.283	12.4	20.9	5 1	17 38.20	-17 7.4	2.031	2.841	14.3	20.4
5 11	17 34.37	-16 4.4	2.403	3.290	9.9	20.7	5 11	17 34.98	-16 1.5	1.908	2.802	11.7	20.2
5 21	17 28.37	-15 56.8	2.342	3.296	7.0	20.6	5 21	17 29.38	-14 51.3	1.806	2.763	8.5	19.9
5 31	17 21.01	-15 52.1	2.306	3.302	4.0	20.4	5 31	17 21.81	-13 39.3	1.729	2.723	5.3	19.6
6 10	17 12.96	-15 50.9	2.298	3.308	2.2	20.3	6 10	17 13.00	-12 29.2	1.679	2.684	4.0	19.4
6 20	17 4.95	-15 53.7	2.318	3.313	4.2	20.4	6 20	17 3.89	-11 25.0	1.656	2.644	6.5	19.5
6 30	16 57.72	-16 1.0	2.366	3.319	7.2	20.6	6 30	16 55.49	-10 31.1	1.659	2.605	10.3	19.6
7 10	16 51.89	-16 13.0	2.439	3.324	10.1	20.8	7 10	16 48.75	-9 50.2	1.685	2.566	14.0	19.8
488758	2004 TA ₃₁		6 9.9 251°89	0.9/ 9.7	18		5945	Roach approach		6 9.9 310°38	4.1/ 10.2	18	
5 1	17 42.32	-21 39.5	2.276	3.072	13.4	22.6	5 1	17 41.02	-29 2.7	1.261	2.096	20.0	16.4
5 11	17 37.88	-21 22.3	2.164	3.051	10.8	22.4	5 11	17 39.09	-29 45.9	1.173	2.080	16.4	16.1
5 21	17 31.16	-21 3.0	2.073	3.029	7.6	22.1	5 21	17 33.34	-30 25.9	1.102	2.064	12.0	15.8
5 31	17 22.60	-20 41.6	2.007	3.007	3.9	21.9	5 31	17 24.23	-30 57.8	1.052	2.049	7.2	15.5
6 10	17 12.96	-20 18.7	1.969	2.984	0.9	21.6	6 10	17 12.98	-31 16.7	1.024	2.034	4.1	15.3
6 20	17 3.13	-19 55.5	1.960	2.960	4.3	21.8	6 20	17 1.32	-31 20.2	1.019	2.019	7.1	15.4
6 30	16 54.09	-19 33.7	1.978	2.936	8.1	22.0	6 30	16 51.18	-31 9.9	1.036	2.005	12.2	15.6
7 10	16 46.67	-19 15.6	2.022	2.911	11.7	22.2	7 10	16 44.15	-30 50.8	1.074	1.992	17.1	15.9
216698	2004 RW ₁₄₂		6 9.9 12°20	1.8/ 9.2	18		86771	2000 GS ₈₇		6 9.9 345°65	2.4/ 9.9	18	
5 1	17 37.06	-22 24.1	1.794	2.615	15.5	18.8	5 1	17 37.23	-16 52.9	1.077	1.932	21.3	18.1
5 11	17 33.96	-21 26.0	1.716	2.618	12.3	18.6	5 11	17 35.97	-17 5.5	1.003	1.924	17.2	17.8
5 21	17 28.45	-20 22.8	1.659	2.622	8.5	18.4	5 21	17 31.02	-17 25.6	0.946	1.917	12.2	17.5
5 31	17 21.14	-19 16.7	1.627	2.628	4.5	18.1	5 31	17 22.94	-17 53.8	0.909	1.911	6.6	17.2
6 10	17 12.98	-18 10.8	1.620	2.633	1.9	18.0	6 10	17 13.01	-18 29.4	0.893	1.906	2.4	16.9
6 20	17 4.98	-17 8.9	1.640	2.640	5.1	18.2	6 20	17 2.88	-19 10.6	0.898	1.903	6.8	17.2
6 30	16 58.14	-16 14.9	1.686	2.647	9.0	18.5	6 30	16 54.34	-19 56.1	0.925	1.900	12.5	17.5
7 10	16 53.20	-15 31.4	1.756	2.655	12.6	18.7	7 10	16 48.80	-20 44.5	0.972	1.898	17.7	17.8
420394	2012 CR ₂₅		6 9.9 68°65	2.2/ 10.4	17		74295	1998 SR ₁₄₇		6 9.9 331°61	6.1/ 8.4	17	
5 1	17 43.94	-29 26.4	1.495	2.311	18.3	20.9	5 1	17 36.13	-11 32.0	1.652	2.474	16.6	18.7
5 11	17 40.22	-29 20.9	1.420	2.317	14.7	20.7	5 11	17 33.53	-10 31.6	1.567	2.464	13.6	18.5
5 21	17 33.24	-29 7.0	1.364	2.323	10.5	20.5	5 21	17 28.40	-9 34.7	1.502	2.454	10.3	18.3
5 31	17 23.73	-28 42.5	1.331	2.329	5.8	20.2	5 31	17 21.26	-8 45.7	1.460	2.445	7.2	18.1
6 10	17 12.96	-28 7.0	1.322	2.335	2.2	20.0	6 10	17 13.04	-8 8.8	1.442	2.437	6.1	18.0
6 20	17 2.38	-27 22.6	1.338	2.341	5.4	20.2	6 20	17 4.76	-7 47.0	1.448	2.429	8.1	18.1
6 30	16 53.40	-26 33.8	1.380	2.347	10.0	20.5	6 30	16 57.52	-7 42.1	1.478	2.422	11.5	18.3
7 10	16 47.06	-25 45.9	1.444	2.353	14.2	20.8	7 10	16 52.22	-7 53.7	1.530	2.415	14.9	18.5
367102	2006 RD ₁₆		6 9.9 256°62	0.4/ 9.8	17		475857	2007 BJ ₆₈		6 9.9 147°57	6.0/ 8.7	16	
5 1	17 43.53	-22 49.3	1.837	2.644	15.7	22.1	5 1	17 36.62	-4 15.4	2.544	3.321	12.7	21.8
5 11	17 39.50	-22 40.6	1.731	2.625	12.7	21.8	5 11	17 32.79	-3 39.1	2.463	3.324	10.6	21.6
5 21	17 32.67	-22 29.6	1.646	2.605	8.9	21.6	5 21	17 27.26	-3 10.8	2.403	3.326	8.4	21.5
5 31	17 23.52	-22 15.5	1.585	2.585	4.6	21.3	5 31	17 20.48	-2 53.3	2.367	3.328	6.6	21.4
6 10	17 12.97	-21 58.5	1.550	2.565	0.4	20.9	6 10	17 13.05	-2 48.6	2.358	3.330	6.0	21.3
6 20	17 2.16	-21 39.5	1.542	2.544	4.9	21.2	6 20	17 5.65	-2 57.7	2.376	3.331	7.0	21.4
6 30	16 52.36	-21 20.5	1.560	2.522	9.5	21.4	6 30	16 58.94	-3 20.2	2.419	3.333	9.0	21.5
7 10	16 44.62	-21 4.4	1.601	2.500	13.7	21.6	7 10	16 53.51	-3 54.8	2.486	3.335	11.2	21.7
338552	2003 SJ ₅₃		6 9.9 261°20	2.8/ 10.7	18		73902	1997 GX ₅		6 9.9 71°63	0.7/ 9.8	18	
5 1	17 43.28	-32 18.5	2.034	2.826	14.9	20.3	5 1	17 43.19	-21 28.3	1.510	2.331	17.9	19.8
5 11	17 39.05	-32 9.4	1.933	2.814	12.2	20.1	5 11	17 39.33	-21 29.0	1.443	2.345	14.2	19.6
5 21	17 32.14	-31 51.0	1.853	2.802	8.9	19.9	5 21	17 32.46	-21 29.3	1.395	2.358	9.9	19.3
5 31	17 23.13	-31 20.9	1.796	2.789	5.3	19.6	5 31	17 23.31	-21 28.8	1.369	2.371	5.0	19.1
6 10	17 12.97	-30 38.6	1.766	2.776	2.8	19.4	6 10	17 13.03	-21 27.3	1.369	2.384	0.7	18.8
6 20	17 2.79	-29 45.5	1.764	2.763	4.8	19.6	6 20	17 2.93	-21 25.3	1.395	2.397	5.1	19.1
6 30	16 53.74	-28 45.2	1.788	2.750	8.6	19.7	6 30	16 54.30	-21 24.2	1.445	2.411	9.8	19.4
7 10	16 46.76	-27 42.9	1.837	2.736	12.1	19.9	7 10	16 48.08	-21 25.8	1.518	2.424	13.8	19.7
509751	2008 TA ₁₀₃		6 9.9 188°74	2.9/ 8.9	18		179545	2002 CQ ₂₉₄		6 9.9 208°80	4.3/ 10.7	18	
5 1	17 41.10	-16 15.5	2.520	3.309	12.4	22.0	5 1	17 42.30	-35 3.4	2.451	3.227	13.1	20.6
5 11	17 36.36	-15 32.2	2.426	3.308	10.0	21.9	5 11	17 37.92	-35 40.5	2.359	3.225	10.8	20.4
5 21	17 29.75	-14 48.9	2.356	3.307	7.1	21.7	5 21	17 31.19	-36 10.9	2.288	3.223	8.2	20.2
5 31	17 21.73	-14 7.3	2.312	3.305	4.3	21.5	5 31	17 22.62	-36 31.4	2.242	3.221	5.7	20.0
6 10	17 12.99	-13 29.5	2.296	3.302	2.9	21.4	6 10	17 13.04	-36 39.5	2.223	3.219	4.3	20.0
6 20	17 4.29	-12 57.3	2.310	3.299	4.9	21.5	6 20	17 3.40	-36 34.8	2.232	3.217	5.4	20.0
6 30	16 56.38	-12 32.5	2.351	3.295	7.8	21.7	6 30	16 54.70	-36 18.5	2.267	3.214	7.9	20.2
7 10	16 49.89	-12 16.1	2.417	3.290	10.6	21.9	7 10	16 47.78	-35 53.9	2.327	3.212	10.5	20.3
189342	2007 VY ₃₁₀		6 9.9 109°70	1.6/ 9.8	17		442012	2010 OL ₆₇		6 9.9 265°69	4.8/ 8.1	17	
5 1	17 44.23	-18 14.1	1.650										

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
347933	2003 <i>FF</i> ₅₈		6 9.9 116°94	5°0/11.2	18		257118	2008 <i>GS</i> ₈₁		6 9.9 324°42	1°2/	9.9 18	
5 1	17 44.75	-38 54.0	2.559	3.318	13.1	21.5	5 1	17 40.01	-16 53.4	2.242	3.042	13.5	20.1
5 11	17 39.67	-39 26.9	2.481	3.331	10.9	21.4	5 11	17 36.01	-17 25.4	2.147	3.036	10.8	19.9
5 21	17 32.25	-39 50.6	2.423	3.344	8.5	21.2	5 21	17 29.85	-18 2.2	2.074	3.031	7.6	19.7
5 31	17 23.08	-40 1.5	2.391	3.356	6.2	21.1	5 31	17 21.97	-18 43.2	2.027	3.026	4.0	19.5
6 10	17 13.04	-39 57.7	2.384	3.369	5.0	21.0	6 10	17 13.10	-19 27.2	2.007	3.021	1.2	19.3
6 20	17 3.12	-39 39.1	2.406	3.381	5.8	21.1	6 20	17 4.09	-20 12.7	2.015	3.016	4.1	19.5
6 30	16 54.29	-39 7.9	2.454	3.392	7.8	21.3	6 30	16 55.86	-20 58.6	2.051	3.011	7.7	19.7
7 10	16 47.30	-38 28.1	2.528	3.403	10.1	21.4	7 10	16 49.19	-21 44.3	2.112	3.007	11.0	19.9
99149	2001 <i>FH</i> ₁₂₃		6 9.9 227°94	0°6/	9.8 18		173602	2001 <i>DC</i> ₆₆		6 9.9 120°70	0°2/	9.9 17	
5 1	17 40.78	-22 25.8	2.151	2.953	13.9	19.7	5 1	17 45.55	-24 14.1	1.741	2.547	16.5	20.5
5 11	17 36.69	-22 13.2	2.056	2.947	11.1	19.5	5 11	17 40.84	-24 9.0	1.667	2.560	13.1	20.3
5 21	17 30.31	-21 58.6	1.982	2.941	7.7	19.3	5 21	17 33.34	-24 0.8	1.614	2.573	9.1	20.1
5 31	17 22.16	-21 41.9	1.934	2.934	4.0	19.0	5 31	17 23.74	-23 48.6	1.584	2.585	4.7	19.9
6 10	17 13.06	-21 23.4	1.912	2.927	0.6	18.7	6 10	17 13.10	-23 32.2	1.581	2.597	0.2	19.5
6 20	17 3.91	-21 4.3	1.918	2.920	4.2	19.0	6 20	17 2.65	-23 12.8	1.605	2.608	4.7	19.9
6 30	16 55.69	-20 46.3	1.952	2.913	8.0	19.2	6 30	16 53.56	-22 52.8	1.656	2.619	9.0	20.2
7 10	16 49.19	-20 31.4	2.010	2.905	11.4	19.4	7 10	16 46.71	-22 35.1	1.729	2.629	12.8	20.4
349905	2009 <i>FP</i> ₄₇		6 9.9 111°09	3°2/10.3	17		378292	2007 <i>EP</i> ₁₅₀		6 9.9 245°56	2°3/	9.6 18	
5 1	17 43.02	-30 34.5	2.254	3.042	13.8	20.4	5 1	17 41.11	-17 24.6	1.846	2.657	15.5	21.2
5 11	17 38.51	-31 17.0	2.171	3.049	11.1	20.2	5 11	17 37.32	-17 13.4	1.755	2.650	12.5	21.0
5 21	17 31.61	-31 55.3	2.110	3.056	8.1	20.0	5 21	17 30.98	-17 4.3	1.685	2.643	8.8	20.7
5 31	17 22.83	-32 26.2	2.074	3.063	5.0	19.8	5 31	17 22.61	-16 57.9	1.638	2.636	4.9	20.5
6 10	17 13.05	-32 47.4	2.065	3.070	3.2	19.7	6 10	17 13.12	-16 55.3	1.617	2.629	2.3	20.3
6 20	17 3.25	-32 58.0	2.083	3.076	4.9	19.8	6 20	17 3.53	-16 56.9	1.624	2.622	5.3	20.5
6 30	16 54.46	-32 58.8	2.129	3.083	7.9	20.0	6 30	16 54.95	-17 3.7	1.656	2.615	9.3	20.7
7 10	16 47.50	-32 52.5	2.199	3.089	10.8	20.2	7 10	16 48.30	-17 16.3	1.711	2.607	13.1	20.9
137807	1999 <i>YE</i> ₇		6 9.9 252°69	4°4/	9.9 18		433153	2012 <i>TQ</i> ₂₄₂		6 9.9 277°06	1°6/10.1	16	
5 1	17 48.39	-30 58.7	1.943	2.730	15.7	20.3	5 1	17 41.56	-26 6.0	1.953	2.758	15.0	21.7
5 11	17 43.75	-32 1.4	1.834	2.710	12.9	20.0	5 11	17 37.84	-26 30.0	1.854	2.746	12.1	21.5
5 21	17 35.95	-33 2.4	1.746	2.690	9.7	19.8	5 21	17 31.47	-26 52.2	1.776	2.733	8.6	21.2
5 31	17 25.40	-33 56.8	1.682	2.669	6.3	19.5	5 31	17 22.93	-27 10.3	1.721	2.719	4.7	21.0
6 10	17 13.03	-34 39.4	1.645	2.647	4.4	19.4	6 10	17 13.11	-27 22.5	1.693	2.706	1.6	20.7
6 20	17 0.11	-35 6.7	1.635	2.624	6.4	19.5	6 20	17 3.09	-27 28.0	1.692	2.693	4.6	20.9
6 30	16 48.15	-35 18.6	1.651	2.601	10.0	19.6	6 30	16 54.04	-27 27.8	1.717	2.680	8.7	21.1
7 10	16 38.44	-35 18.3	1.692	2.578	13.7	19.8	7 10	16 46.95	-27 24.2	1.766	2.667	12.5	21.3
294852	2008 <i>CM</i> ₁₈₂		6 9.9 178°76	2°6/10.3	17		305970	2009 <i>HN</i> ₇₁		6 9.9 158°24	0°4/	9.8 18	
5 1	17 47.16	-29 23.8	2.082	2.868	14.8	22.2	5 1	17 39.87	-21 42.8	2.523	3.318	12.3	21.8
5 11	17 41.99	-29 50.2	1.992	2.871	12.0	22.0	5 11	17 35.53	-21 41.6	2.435	3.322	9.8	21.6
5 21	17 34.14	-30 12.0	1.923	2.872	8.6	21.8	5 21	17 29.27	-21 39.6	2.369	3.326	6.8	21.4
5 31	17 24.17	-30 26.4	1.880	2.873	5.0	21.6	5 31	17 21.57	-21 36.7	2.329	3.329	3.5	21.2
6 10	17 13.05	-30 31.1	1.863	2.873	2.6	21.4	6 10	17 13.13	-21 32.7	2.317	3.333	0.4	20.9
6 20	17 1.89	-30 25.6	1.875	2.872	4.8	21.6	6 20	17 4.71	-21 28.2	2.334	3.335	3.6	21.2
6 30	16 51.87	-30 11.8	1.913	2.870	8.4	21.8	6 30	16 57.09	-21 24.0	2.379	3.338	6.8	21.4
7 10	16 43.90	-29 52.9	1.977	2.868	11.8	22.0	7 10	16 50.92	-21 21.5	2.449	3.341	9.8	21.6
505756	2015 <i>BM</i> ₁₂₁		6 9.9 355°86	4°0/10.3	17		25206	1998 <i>SX</i> ₁₄₅		6 9.9 316°85	2°3/	10.1 18	
5 1	17 36.11	-29 0.6	1.212	2.057	20.0	20.2	5 1	17 39.75	-26 50.2	1.707	2.524	16.3	18.7
5 11	17 35.01	-29 43.7	1.138	2.051	16.2	19.9	5 11	17 36.86	-27 21.5	1.612	2.510	13.2	18.4
5 21	17 30.29	-30 22.3	1.082	2.047	11.8	19.6	5 21	17 31.05	-27 50.9	1.536	2.496	9.4	18.1
5 31	17 22.54	-30 51.8	1.046	2.044	7.1	19.4	5 31	17 22.82	-28 15.5	1.484	2.482	5.3	17.9
6 10	17 13.06	-31 8.5	1.032	2.042	4.0	19.2	6 10	17 13.12	-28 33.0	1.456	2.468	2.3	17.6
6 20	17 3.49	-31 10.8	1.040	2.042	6.8	19.3	6 20	17 3.17	-28 42.1	1.454	2.455	5.2	17.8
6 30	16 55.55	-31 1.0	1.071	2.043	11.6	19.6	6 30	16 54.32	-28 43.6	1.477	2.443	9.6	18.0
7 10	16 50.58	-30 43.7	1.121	2.045	16.1	19.9	7 10	16 47.69	-28 40.2	1.523	2.431	13.6	18.2
292021	2006 <i>QE</i> ₁₅₂		6 9.9 305°20	1°0/10.1	18		213441	2002 <i>AU</i> ₆		6 9.9 240°59	3°5/	8.8 18	
5 1	17 39.94	-25 38.7	2.030	2.837	14.5	20.9	5 1	17 38.20	-14 26.8	2.453	3.249	12.6	20.8
5 11	17 36.25	-25 44.8	1.940	2.833	11.6	20.7	5 11	17 34.24	-13 42.1	2.355	3.240	10.1	20.6
5 21	17 30.13	-25 47.8	1.871	2.829	8.1	20.5	5 21	17 28.41	-12 58.4	2.280	3.230	7.4	20.4
5 31	17 22.12	-25 46.5	1.825	2.825	4.3	20.2	5 31	17 21.16	-12 17.9	2.231	3.221	4.7	20.2
6 10	17 13.08	-25 40.2	1.807	2.821	1.0	20.0	6 10	17 13.14	-11 42.6	2.209	3.211	3.6	20.1
6 20	17 4.00	-25 29.4	1.815	2.818	4.2	20.2	6 20	17 5.09	-11 14.7	2.215	3.201	5.3	20.2
6 30	16 55.93	-25 15.7	1.850	2.814	8.1	20.5	6 30	16 57.77	-10 55.7	2.249	3.191	8.2	20.4
7 10	16 49.70	-25 1.4	1.909	2.811	11.6	20.7	7 10	16 51.83	-10 46.3	2.306	3.180	11.0	20.5
430806	2005 <i>BG</i> ₄₉		6 9.9 43°76	5°2/	9.4 17		289088	2004 <i>TY</i> ₂₅₈		6 9.9 157°28	2°3/10.3	17	
5 1	17 38.97	- 9 56.9	1.782	2.590	16.1	20.6	5 1	17 47.11	-27 54.5	1.690	2.494	17.0	21.3
5 11	17 35.42	- 9 35.0	1.709	2.597	13.1	20.4	5 11	17 42.48	-28 14.9	1.610	2.499	13.7	21.1
5 21	17 29.49	- 9 20.9	1.656	2.605	9.8	20.2	5 21	17 34.76	-28 30.8	1.549	2.504	9.8	20.9
5 31	17 21.75	- 9 17.2	1.627	2.612	6.6	20.0	5 31	17 24.59	-28 39.2	1.512	2.508	5.5	20.6
6 10	17 13.09	- 9 25.4	1.622	2.620	5.2	20.0	6 10	17 13.11	-28 38.2	1.500	2.512	2.3	20.4
6 20	17 4.51	- 9 45.9	1.644	2.628	6.9	20.1	6 20	17 1.68	-28 27.6	1.515	2.516	5.2	20.6
6 30	16 56.99	-10 18.2	1.690	2.637	10.1	20.3	6 30	16 51.65	-28 9.7	1.556	2.519	9.5	20.9
7 10	16 51.33	-11 0.3	1.760	2.645	13.3	20.5	7 10	16 44.08	-27 48.6	1.621	2.521	13.4	21.1
394705	2008 <i>DL</i> ₂₃		6 9.9 1°16	7°3/	8.3 16		95684	2002 <i>JN</i> ₁₄ </					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
211278	2002 RR ₁₃₁		6 9.9 217°16	17°0/ 3.7 18			126272	2002 AM ₉₀		6 9.9 194°85	1°6/ 9.6 18		
5 1	17 43.27	+ 4 33.4	1.266	2.056	22.4	20.0	5 1	17 42.06	-19 35.3	2.204	3.002	13.7	20.9
5 11	17 39.88	+ 7 22.8	1.204	2.051	20.1	19.8	5 11	17 37.57	-19 15.3	2.112	3.000	11.0	20.7
5 21	17 33.20	+ 9 57.3	1.159	2.047	18.2	19.6	5 21	17 30.87	-18 54.7	2.041	2.997	7.7	20.5
5 31	17 23.89	+12 3.2	1.133	2.041	17.1	19.5	5 31	17 22.48	-18 34.1	1.996	2.994	4.1	20.3
6 10	17 13.13	+13 28.7	1.128	2.035	17.3	19.5	6 10	17 13.19	-18 14.5	1.978	2.991	1.6	20.1
6 20	17 2.33	+14 7.1	1.140	2.029	18.7	19.6	6 20	17 3.89	-17 57.0	1.988	2.987	4.4	20.3
6 30	16 52.96	+13 58.0	1.171	2.022	20.8	19.7	6 30	16 55.51	-17 43.2	2.026	2.982	8.1	20.5
7 10	16 46.17	+13 7.7	1.216	2.015	23.2	19.8	7 10	16 48.79	-17 34.5	2.088	2.977	11.4	20.7
104227	2000 EH ₁₂₅		6 9.9 205°06	2°7/ 9.4 18			204715	2006 GZ ₂₂		6 9.9 111°77	1°5/ 9.7 17		
5 1	17 39.67	-15 40.4	2.209	3.009	13.6	20.3	5 1	17 44.96	-20 6.2	1.531	2.347	17.9	21.2
5 11	17 35.64	-15 25.3	2.119	3.007	10.9	20.1	5 11	17 40.71	-19 55.7	1.460	2.358	14.3	21.0
5 21	17 29.51	-15 12.7	2.051	3.005	7.8	19.9	5 21	17 33.46	-19 45.5	1.408	2.369	10.0	20.8
5 31	17 21.76	-15 3.8	2.007	3.002	4.5	19.7	5 31	17 23.90	-19 35.6	1.379	2.380	5.2	20.5
6 10	17 13.15	-14 59.5	1.991	3.000	2.7	19.6	6 10	17 13.18	-19 26.6	1.376	2.390	1.5	20.3
6 20	17 4.51	-15 0.5	2.002	2.997	4.9	19.7	6 20	17 2.62	-19 19.4	1.398	2.400	5.4	20.6
6 30	16 56.72	-15 7.4	2.040	2.993	8.2	19.9	6 30	16 53.51	-19 15.7	1.446	2.409	10.0	20.9
7 10	16 50.50	-15 20.5	2.103	2.990	11.4	20.1	7 10	16 46.81	-19 16.9	1.516	2.419	14.1	21.1
187248	2005 SS ₂₁₀		6 9.9 199°24	3°5/ 8.9 17			56368	2000 EU ₅		6 9.9 233°57	1°0/ 9.8 18		
5 1	17 37.54	-14 1.0	2.456	3.253	12.5	20.6	5 1	17 44.84	-21 23.4	1.602	2.416	17.4	20.1
5 11	17 33.67	-13 20.9	2.368	3.252	10.1	20.4	5 11	17 40.88	-21 14.6	1.509	2.407	14.0	19.8
5 21	17 27.97	-12 42.7	2.301	3.251	7.3	20.2	5 21	17 33.83	-21 4.6	1.436	2.397	9.8	19.5
5 31	17 20.91	-12 8.5	2.260	3.250	4.7	20.0	5 31	17 24.25	-20 53.3	1.385	2.386	5.1	19.2
6 10	17 13.16	-11 40.1	2.247	3.248	3.5	20.0	6 10	17 13.18	-20 40.7	1.360	2.375	1.0	18.9
6 20	17 5.43	-11 19.1	2.261	3.247	5.2	20.1	6 20	17 1.94	-20 27.9	1.361	2.363	5.4	19.2
6 30	16 58.45	-11 6.9	2.302	3.245	8.0	20.2	6 30	16 51.92	-20 16.9	1.387	2.351	10.3	19.4
7 10	16 52.84	-11 3.9	2.368	3.243	10.7	20.4	7 10	16 44.27	-20 10.1	1.436	2.338	14.7	19.7
414042	2007 RX ₁₃₃		6 9.9 291°88	1°0/10.1 17			27099	Xiaoyucao		6 9.9 60°19	1°8/10.3 18		
5 1	17 41.80	-25 2.5	1.386	2.215	18.8	21.2	5 1	17 43.07	-28 11.2	1.586	2.401	17.5	18.6
5 11	17 39.14	-25 10.1	1.294	2.200	15.2	20.9	5 11	17 39.41	-28 9.2	1.509	2.405	14.0	18.4
5 21	17 33.02	-25 14.7	1.221	2.186	10.8	20.6	5 21	17 32.67	-28 0.5	1.450	2.409	9.9	18.2
5 31	17 23.97	-25 14.5	1.170	2.171	5.7	20.3	5 31	17 23.54	-27 43.3	1.414	2.413	5.4	17.9
6 10	17 13.14	-25 7.9	1.142	2.156	1.0	19.9	6 10	17 13.18	-27 17.0	1.404	2.417	1.8	17.7
6 20	17 2.02	-24 55.2	1.138	2.142	5.7	20.2	6 20	17 2.95	-26 43.2	1.419	2.421	5.1	17.9
6 30	16 52.27	-24 38.7	1.158	2.128	11.1	20.4	6 30	16 54.16	-26 5.4	1.459	2.426	9.6	18.2
7 10	16 45.24	-24 22.4	1.199	2.114	16.0	20.7	7 10	16 47.81	-25 28.1	1.522	2.430	13.6	18.4
210917	2001 SE ₂₆₃		6 9.9 255°73	2°7/10.3 18			325079	2008 DF ₇		6 9.9 57°93	1°1/ 9.8 17		
5 1	17 42.11	-29 30.2	2.352	3.141	13.3	21.2	5 1	17 42.44	-21 15.7	1.422	2.250	18.5	21.3
5 11	17 37.87	-30 2.8	2.248	3.128	10.7	21.0	5 11	17 38.91	-21 5.7	1.358	2.263	14.7	21.1
5 21	17 31.28	-30 32.1	2.166	3.114	7.8	20.8	5 21	17 32.28	-20 55.0	1.312	2.276	10.2	20.8
5 31	17 22.78	-30 55.5	2.108	3.101	4.7	20.6	5 31	17 23.30	-20 43.6	1.288	2.290	5.3	20.6
6 10	17 13.15	-31 10.7	2.078	3.087	2.7	20.4	6 10	17 13.19	-20 32.0	1.289	2.304	1.1	20.3
6 20	17 3.33	-31 17.0	2.076	3.072	4.6	20.5	6 20	17 3.30	-20 21.5	1.315	2.318	5.4	20.7
6 30	16 54.33	-31 15.0	2.101	3.058	7.8	20.7	6 30	16 54.95	-20 13.9	1.366	2.333	10.1	21.0
7 10	16 47.03	-31 7.1	2.151	3.043	10.9	20.9	7 10	16 49.08	-20 11.1	1.438	2.347	14.2	21.2
408867	2001 SE ₃₂₄		6 9.9 205°68	5°2/10.6 16			87472	2000 QU ₁₃₅		6 9.9 230°44	1°9/ 9.6 18		
5 1	17 48.03	-33 16.5	1.580	2.380	18.2	21.4	5 1	17 42.57	-17 25.0	2.365	3.156	13.1	20.7
5 11	17 43.88	-34 1.3	1.495	2.378	15.0	21.2	5 11	17 37.95	-17 18.8	2.258	3.142	10.5	20.5
5 21	17 36.17	-34 39.2	1.429	2.375	11.2	20.9	5 21	17 31.17	-17 14.3	2.174	3.127	7.5	20.3
5 31	17 25.50	-35 4.3	1.385	2.371	7.4	20.7	5 31	17 22.69	-17 11.8	2.115	3.112	4.1	20.1
6 10	17 13.13	-35 12.2	1.366	2.368	5.2	20.6	6 10	17 13.22	-17 11.8	2.084	3.096	1.9	19.9
6 20	17 0.63	-35 1.4	1.372	2.364	7.0	20.7	6 20	17 3.58	-17 14.7	2.082	3.079	4.4	20.0
6 30	16 49.68	-34 34.7	1.402	2.359	10.9	20.9	6 30	16 54.69	-17 21.1	2.108	3.062	7.9	20.2
7 10	16 41.57	-33 58.0	1.455	2.354	14.7	21.1	7 10	16 47.32	-17 31.7	2.159	3.044	11.2	20.4
303811	2005 SS ₆₇		6 9.9 220°11	4°1/10.7 18			127272	2002 JS ₆₀		6 9.9 347°14	8°2/ 8.5 17		
5 1	17 42.06	-34 56.8	2.459	3.236	13.1	20.9	5 1	17 32.09	- 9 4.1	1.279	2.123	19.2	18.6
5 11	17 37.73	-35 28.5	2.366	3.233	10.8	20.7	5 11	17 31.09	- 8 0.9	1.202	2.110	16.0	18.4
5 21	17 31.07	-35 53.4	2.295	3.230	8.1	20.5	5 21	17 27.16	- 7 5.0	1.144	2.099	12.4	18.1
5 31	17 22.61	-36 8.2	2.248	3.227	5.6	20.4	5 31	17 20.86	- 6 22.9	1.105	2.089	9.3	17.9
6 10	17 13.15	-36 11.0	2.227	3.224	4.1	20.3	6 10	17 13.23	- 6 0.0	1.088	2.080	8.2	17.8
6 20	17 3.65	-36 1.3	2.235	3.221	5.2	20.3	6 20	17 5.50	- 5 59.6	1.093	2.073	10.2	17.9
6 30	16 55.09	-35 40.6	2.269	3.217	7.8	20.5	6 30	16 59.00	- 6 22.4	1.119	2.068	13.7	18.1
7 10	16 48.27	-35 12.2	2.328	3.214	10.4	20.6	7 10	16 54.79	- 7 5.7	1.164	2.064	17.5	18.3
177847	2005 OV ₁₈		6 9.9 319°09	4°6/ 9.0 18			269821	1999 XA ₆		6 9.9 108°94	2°5/ 9.0 18		
5 1	17 36.65	-11 59.0	1.999	2.808	14.6	19.9	5 1	17 48.47	-20 48.4	1.954	2.746	15.4	20.9
5 11	17 33.52	-11 25.9	1.908	2.798	11.9	19.7	5 11	17 42.42	-19 36.0	1.886	2.771	12.2	20.7
5 21	17 28.19	-10 57.2	1.838	2.789	8.8	19.4	5 21	17 33.99	-18 19.9	1.841	2.796	8.5	20.5
5 31	17 21.15	-10 35.5	1.792	2.780	5.9	19.3	5 31	17 23.93	-17 2.5	1.822	2.819	4.7	20.4
6 10	17 13.18	-10 22.8	1.771	2.771	4.6	19.2	6 10	17 13.22	-15 47.5	1.832	2.842	2.6	20.3
6 20	17 5.13	-10 20.8	1.777	2.762	6.4	19.2	6 20	17 2.90	-14 38.9	1.870	2.864	5.3	20.5
6 30	16 57.94	-10 30.1	1.808	2.754	9.6	19.4	6 30	16 53.93	-13 40.2	1.937	2.885	8.9	20.7
7 10	16 52.38	-10 50.2	1.862	2.746	12.7	19.6	7 10	16 46.99	-12 53.8	2.028	2.905	12.2	21.0
343848	2011 HT ₃₉		6 9.9 232°42	0°8/ 9.9 18			130942	2000 WB ₅₀		6 9.9 282°26	2°6/ 9.8 17		
5 1	17 42.97	-19 23.3											

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
382933	2004 <i>TT</i> ₁₁₉		6 9.9 328°48	2°5/ 9.1	18		216314	2007 <i>TP</i> ₁₈₇		6 9.9 220°42	7°8/ 9.2	17	
5 1	17 36.85	-22 28.9	1.402	2.240	18.2	20.0	5 1	17 55.54	-36 36.5	1.878	2.644	16.9	20.8
5 11	17 34.87	-21 23.5	1.311	2.223	14.6	19.7	5 11	17 50.13	-38 32.7	1.782	2.636	14.3	20.6
5 21	17 29.80	-20 9.6	1.239	2.206	10.3	19.4	5 21	17 40.92	-40 26.8	1.706	2.627	11.4	20.4
5 31	17 22.22	-18 49.3	1.189	2.191	5.6	19.1	5 31	17 28.28	-42 9.6	1.656	2.618	8.8	20.2
6 10	17 13.22	-17 27.1	1.163	2.176	2.6	18.9	6 10	17 13.24	-43 32.1	1.632	2.608	7.8	20.1
6 20	17 4.15	-16 8.8	1.162	2.162	6.5	19.1	6 20	16 57.42	-44 28.0	1.636	2.597	9.2	20.2
6 30	16 56.38	-15 0.6	1.185	2.149	11.5	19.3	6 30	16 42.72	-44 56.3	1.665	2.585	12.0	20.3
7 10	16 51.02	-14 7.1	1.228	2.138	16.1	19.6	7 10	16 30.82	-45 1.9	1.717	2.573	15.0	20.5
91315	1999 <i>GM</i> ₈		6 9.9 128°67	7°8/10.8	17		480572	2015 <i>MO</i> ₇₂		6 9.9 40°56	0°4/10.1	17	
5 1	17 49.51	-38 4.2	1.540	2.331	19.0	19.2	5 1	17 39.91	-26 38.0	1.887	2.697	15.3	20.2
5 11	17 45.42	-39 16.6	1.465	2.335	15.9	19.0	5 11	17 36.18	-26 10.1	1.814	2.709	12.1	20.0
5 21	17 37.45	-40 19.3	1.408	2.339	12.6	18.8	5 21	17 30.00	-25 36.1	1.763	2.722	8.4	19.8
5 31	17 26.24	-41 4.3	1.373	2.343	9.4	18.7	5 31	17 22.04	-24 56.1	1.735	2.735	4.3	19.6
6 10	17 13.21	-41 25.3	1.362	2.347	7.9	18.6	6 10	17 13.27	-24 11.4	1.734	2.749	0.4	19.3
6 20	17 0.11	-41 20.0	1.374	2.351	9.0	18.7	6 20	17 4.72	-23 24.3	1.760	2.763	4.2	19.6
6 30	16 48.82	-40 51.4	1.411	2.354	12.0	18.8	6 30	16 57.38	-22 38.3	1.812	2.777	8.2	19.9
7 10	16 40.69	-40 7.1	1.469	2.357	15.3	19.0	7 10	16 51.99	-21 56.6	1.888	2.792	11.6	20.1
200553	2001 <i>HD</i> ₄₆		6 9.9 12°33	2°7/ 9.9	17		341515	2007 <i>TF</i> ₄₂₅		6 9.9 149°53	0°9/ 9.8	17	
5 1	17 40.35	-24 58.6	1.458	2.286	18.1	18.9	5 1	17 40.35	-20 15.1	2.236	3.036	13.5	21.5
5 11	17 37.65	-26 4.0	1.385	2.290	14.5	18.6	5 11	17 36.20	-20 14.0	2.150	3.040	10.7	21.4
5 21	17 31.74	-27 10.8	1.332	2.294	10.3	18.4	5 21	17 29.92	-20 13.2	2.085	3.043	7.5	21.2
5 31	17 23.22	-28 14.7	1.301	2.300	5.8	18.1	5 31	17 22.02	-20 12.6	2.046	3.046	3.9	20.9
6 10	17 13.22	-29 11.2	1.294	2.306	2.7	18.0	6 10	17 13.28	-20 12.2	2.034	3.048	0.9	20.7
6 20	17 3.14	-29 57.0	1.313	2.314	5.8	18.2	6 20	17 4.54	-20 12.5	2.050	3.051	4.0	20.9
6 30	16 54.44	-30 31.5	1.356	2.322	10.2	18.4	6 30	16 56.70	-20 14.2	2.093	3.053	7.6	21.2
7 10	16 48.28	-30 56.6	1.420	2.331	14.2	18.7	7 10	16 50.47	-20 18.4	2.161	3.056	10.8	21.4
206372	2003 <i>QO</i> ₈₉		6 9.9 334°80	2°3/10.3	17		464862	2005 <i>GP</i> ₁₀₉		6 9.9 331°48	0°3/ 9.9	17	
5 1	17 37.36	-27 28.8	1.162	2.011	20.5	20.2	5 1	17 36.76	-21 48.7	1.231	2.078	19.6	20.8
5 11	17 36.21	-27 39.5	1.082	1.998	16.6	19.9	5 11	17 35.41	-21 58.6	1.146	2.063	15.8	20.5
5 21	17 31.31	-27 44.1	1.018	1.986	11.9	19.6	5 21	17 30.60	-22 9.3	1.079	2.048	11.2	20.2
5 31	17 23.22	-27 39.8	0.974	1.975	6.6	19.2	5 31	17 22.84	-22 19.9	1.032	2.035	5.8	19.9
6 10	17 13.24	-27 25.1	0.952	1.966	2.3	18.9	6 10	17 13.27	-22 29.7	1.007	2.022	0.3	19.4
6 20	17 3.07	-27 0.3	0.952	1.957	6.3	19.1	6 20	17 3.42	-22 38.2	1.005	2.011	6.0	19.8
6 30	16 54.55	-26 29.2	0.974	1.949	11.9	19.4	6 30	16 54.96	-22 46.5	1.026	2.000	11.6	20.1
7 10	16 49.08	-25 57.4	1.015	1.942	17.0	19.7	7 10	16 49.26	-22 56.6	1.066	1.991	16.7	20.3
198217	2004 <i>TS</i> ₁₇₁		6 9.9 1°03	9°4/ 8.6	18		239383	2007 <i>SC</i> ₁₁		6 9.9 292°37	3°0/ 9.5	18	
5 1	17 37.66	- 2 28.1	1.620	2.421	17.7	19.5	5 1	17 39.22	-15 4.1	1.978	2.785	14.8	20.0
5 11	17 34.69	- 1 26.0	1.548	2.420	15.1	19.3	5 11	17 35.62	-14 52.7	1.889	2.781	11.9	19.8
5 21	17 29.19	- 0 36.4	1.495	2.420	12.4	19.1	5 21	17 29.70	-14 45.0	1.820	2.776	8.5	19.6
5 31	17 21.74	- 0 4.9	1.463	2.420	10.2	19.0	5 31	17 21.99	-14 42.2	1.776	2.772	5.0	19.4
6 10	17 13.25	+ 0 4.0	1.453	2.420	9.5	19.0	6 10	17 13.29	-14 45.2	1.759	2.767	3.0	19.2
6 20	17 4.79	- 0 11.4	1.468	2.421	10.7	19.0	6 20	17 4.52	-14 54.6	1.768	2.763	5.3	19.4
6 30	16 57.42	- 0 50.2	1.504	2.422	13.2	19.2	6 30	16 56.67	-15 10.6	1.803	2.758	8.9	19.6
7 10	16 52.00	- 1 48.8	1.562	2.424	15.9	19.4	7 10	16 50.55	-15 33.2	1.861	2.754	12.3	19.8
261026	2005 <i>SM</i> ₁₂₉		6 9.9 205°99	0°9/10.1	18		439696	2014 <i>KP</i> ₁₀		6 9.9 194°75	2°5/ 9.0	17	
5 1	17 39.62	-25 45.0	2.537	3.330	12.3	21.4	5 1	17 38.16	-17 32.5	2.622	3.417	11.9	21.3
5 11	17 35.48	-25 52.0	2.442	3.327	9.8	21.2	5 11	17 34.06	-16 47.6	2.530	3.416	9.5	21.1
5 21	17 29.35	-25 56.3	2.371	3.325	6.9	21.0	5 21	17 28.21	-16 2.0	2.461	3.415	6.7	20.9
5 31	17 21.72	-25 56.9	2.324	3.323	3.6	20.8	5 31	17 21.08	-15 17.3	2.419	3.413	3.9	20.7
6 10	17 13.27	-25 53.3	2.306	3.320	0.9	20.6	6 10	17 13.30	-14 35.5	2.404	3.412	2.5	20.6
6 20	17 4.79	-25 45.8	2.316	3.317	3.5	20.8	6 20	17 5.55	-13 58.5	2.418	3.410	4.4	20.8
6 30	16 57.11	-25 35.5	2.354	3.315	6.8	21.0	6 30	16 58.55	-13 28.1	2.460	3.408	7.3	20.9
7 10	16 50.91	-25 24.2	2.417	3.311	9.8	21.2	7 10	16 52.87	-13 5.5	2.527	3.406	10.0	21.1
373590	2002 <i>CP</i> ₃₂		6 9.9 195°38	6°1/11.2	17		255305	2005 <i>VN</i> ₁₃₁		6 9.9 349°13	12°1/ 4.6	16	
5 1	17 48.11	-39 36.9	2.229	2.990	14.7	21.3	5 1	17 35.62	+ 6 37.3	2.050	2.806	16.0	20.5
5 11	17 43.03	-40 20.1	2.138	2.988	12.4	21.2	5 11	17 32.53	+ 8 35.9	1.983	2.803	14.4	20.3
5 21	17 35.06	-40 53.6	2.066	2.985	9.8	21.0	5 21	17 27.41	+10 20.9	1.936	2.800	13.0	20.2
5 31	17 24.80	-41 12.4	2.019	2.982	7.4	20.8	5 31	17 20.76	+11 45.0	1.911	2.797	12.2	20.2
6 10	17 13.25	-41 13.0	1.997	2.978	6.1	20.7	6 10	17 13.30	+12 42.6	1.907	2.795	12.2	20.2
6 20	17 1.65	-40 54.5	2.002	2.974	7.0	20.8	6 20	17 5.86	+13 10.7	1.926	2.793	13.1	20.2
6 30	16 51.28	-40 19.2	2.034	2.970	9.3	20.9	6 30	16 59.25	+13 8.9	1.965	2.792	14.5	20.3
7 10	16 43.13	-39 32.1	2.089	2.965	11.9	21.1	7 10	16 54.18	+12 40.3	2.022	2.791	16.1	20.4
291978	2006 <i>QJ</i> ₈₃		6 9.9 279°95	0°1/ 9.9	17		223236	2003 <i>EG</i> ₃₂		6 9.9 21°34	0°1/ 9.9	17	
5 1	17 42.13	-23 41.8	1.581	2.401	17.3	21.6	5 1	17 40.46	-23 22.7	1.520	2.346	17.6	20.7
5 11	17 38.95	-23 38.4	1.483	2.383	14.0	21.3	5 11	17 37.38	-23 18.7	1.445	2.349	14.0	20.5
5 21	17 32.66	-23 32.2	1.403	2.365	9.9	21.0	5 21	17 31.32	-23 12.5	1.388	2.352	9.8	20.2
5 31	17 23.75	-23 22.4	1.346	2.347	5.1	20.7	5 31	17 22.92	-23 3.2	1.354	2.356	5.0	19.9
6 10	17 13.26	-23 8.6	1.314	2.329	0.1	20.3	6 10	17 13.29	-22 50.9	1.345	2.360	0.1	19.5
6 20	17 2.48	-22 51.4	1.307	2.311	5.3	20.6	6 20	17 3.73	-22 36.7	1.360	2.364	5.1	20.0
6 30	16 52.87	-22 33.2	1.325	2.292	10.3	20.9	6 30	16 55.54	-22 22.8	1.401	2.369	9.8	20.2
7 10	16 45.62	-22 17.2	1.366	2.274	14.9	21.1	7 10	16 49.70	-22 11.7	1.464	2.374	13.9	20.5
31813	1999 <i>RF</i> ₄₁		6 9.9 214°38	18°1/ 5.8	18 R		179173						

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
431290	2006 UZ ₂₇₀		6 9.9 224°17	0°6/10.1	17		214590	2006 QC ₈₉		6 9.9 276°89	0°7/10.1	18	
5 1	17 44.31	-24 27.9	1.927	2.728	15.3	22.6	5 1	17 40.14	-24 38.8	2.126	2.930	14.0	20.8
5 11	17 39.97	-24 35.5	1.830	2.720	12.3	22.4	5 11	17 36.38	-24 47.8	2.031	2.922	11.2	20.6
5 21	17 32.95	-24 40.9	1.754	2.712	8.7	22.2	5 21	17 30.28	-24 54.8	1.956	2.914	7.9	20.3
5 31	17 23.75	-24 42.8	1.703	2.702	4.5	21.9	5 31	17 22.34	-24 58.7	1.907	2.906	4.1	20.1
6 10	17 13.30	-24 40.1	1.678	2.693	0.6	21.6	6 10	17 13.35	-24 58.6	1.884	2.899	0.7	19.8
6 20	17 2.73	-24 33.0	1.680	2.683	4.5	21.9	6 20	17 4.27	-24 54.8	1.888	2.891	4.1	20.1
6 30	16 53.19	-24 23.0	1.710	2.672	8.8	22.1	6 30	16 56.10	-24 48.3	1.919	2.883	7.9	20.3
7 10	16 45.68	-24 12.7	1.763	2.661	12.6	22.3	7 10	16 49.67	-24 41.3	1.975	2.875	11.4	20.5
43031	1999 VY ₂₅		6 9.9 265°23	1°3/ 9.8	18		326226	2012 DR ₆		6 9.9 140°85	4°3/10.5	18	
5 1	17 42.45	-18 29.0	2.238	3.033	13.6	19.9	5 1	17 47.07	-31 50.5	1.656	2.456	17.5	21.1
5 11	17 38.19	-18 38.1	2.122	3.009	11.0	19.7	5 11	17 42.77	-32 31.0	1.577	2.461	14.2	20.9
5 21	17 31.58	-18 49.6	2.029	2.984	7.8	19.5	5 21	17 35.19	-33 5.2	1.518	2.466	10.5	20.6
5 31	17 23.05	-19 3.4	1.960	2.959	4.2	19.2	5 31	17 24.99	-33 28.3	1.481	2.470	6.7	20.4
6 10	17 13.31	-19 19.1	1.919	2.933	1.3	18.9	6 10	17 13.34	-33 36.9	1.469	2.474	4.3	20.3
6 20	17 3.25	-19 36.3	1.907	2.907	4.4	19.1	6 20	17 1.70	-33 30.0	1.484	2.478	6.3	20.4
6 30	16 53.89	-19 55.2	1.922	2.880	8.3	19.3	6 30	16 51.55	-33 10.0	1.524	2.482	10.0	20.6
7 10	16 46.11	-20 16.3	1.962	2.853	11.9	19.5	7 10	16 44.00	-32 42.2	1.586	2.485	13.7	20.9
504944	2011 DV ₁₁		6 9.9 112°19	9°1/ 8.3	17		519896	2013 PX ₇₉		6 9.9 284°10	5°3/10.8	17	
5 1	17 39.91	- 1 23.2	1.864	2.647	16.4	21.5	5 1	17 44.38	-34 32.5	1.614	2.417	17.7	21.0
5 11	17 36.02	- 0 15.7	1.795	2.654	14.0	21.4	5 11	17 41.04	-35 6.0	1.522	2.406	14.7	20.7
5 21	17 29.86	+ 0 40.2	1.746	2.661	11.6	21.2	5 21	17 34.28	-35 30.6	1.449	2.394	11.1	20.5
5 31	17 22.01	+ 1 19.1	1.720	2.668	9.7	21.1	5 31	17 24.65	-35 41.4	1.398	2.383	7.5	20.3
6 10	17 13.31	+ 1 37.2	1.718	2.674	9.1	21.1	6 10	17 13.35	-35 34.4	1.370	2.372	5.3	20.1
6 20	17 4.71	+ 1 32.6	1.740	2.681	10.2	21.2	6 20	17 1.86	-35 8.8	1.368	2.360	7.0	20.2
6 30	16 57.12	+ 1 6.2	1.785	2.687	12.3	21.3	6 30	16 51.80	-34 27.6	1.390	2.349	10.7	20.3
7 10	16 51.30	+ 0 20.7	1.852	2.693	14.7	21.5	7 10	16 44.44	-33 37.2	1.435	2.338	14.6	20.5
406855	2009 BM ₇₄		6 9.9 208°24	1°3/ 9.6	17		297511	2000 XF ₃₃		6 9.9 159°24	3°2/10.6	18	
5 1	17 46.25	-21 50.2	1.878	2.678	15.7	22.2	5 1	17 42.71	-34 19.1	3.240	4.000	10.5	21.3
5 11	17 41.42	-21 21.1	1.782	2.672	12.6	21.9	5 11	17 37.58	-34 52.3	3.149	4.007	8.6	21.2
5 21	17 33.87	-20 48.8	1.707	2.665	8.8	21.7	5 21	17 30.65	-35 20.1	3.082	4.014	6.5	21.1
5 31	17 24.18	-20 13.6	1.657	2.657	4.6	21.4	5 31	17 22.37	-35 40.3	3.041	4.020	4.4	20.9
6 10	17 13.31	-19 36.6	1.634	2.648	1.3	21.2	6 10	17 13.36	-35 51.3	3.029	4.025	3.2	20.9
6 20	17 2.38	-19 0.1	1.638	2.639	5.0	21.4	6 20	17 4.34	-35 52.7	3.046	4.030	4.1	20.9
6 30	16 52.58	-18 27.0	1.670	2.628	9.3	21.6	6 30	16 56.03	-35 45.4	3.092	4.035	6.1	21.1
7 10	16 44.86	-18 0.0	1.725	2.617	13.2	21.8	7 10	16 49.05	-35 31.5	3.163	4.039	8.3	21.2
152143	2005 JK ₃		6 9.9 25°10	1°1/ 9.8	17		173319	1999 VX ₆₉		6 9.9 323°04	0°4/ 9.9	17	
5 1	17 39.60	-21 28.1	1.240	2.083	19.8	20.3	5 1	17 37.64	-23 16.1	1.275	2.118	19.3	19.7
5 11	17 37.22	-21 18.3	1.175	2.089	15.8	20.0	5 11	17 36.02	-23 5.2	1.187	2.102	15.6	19.4
5 21	17 31.46	-21 7.6	1.128	2.096	11.0	19.8	5 21	17 30.98	-22 50.8	1.117	2.086	11.0	19.1
5 31	17 23.06	-20 56.2	1.102	2.104	5.7	19.5	5 31	17 23.04	-22 32.7	1.067	2.070	5.7	18.8
6 10	17 13.31	-20 44.8	1.098	2.113	1.1	19.2	6 10	17 13.36	-22 11.2	1.041	2.056	0.4	18.3
6 20	17 3.73	-20 34.5	1.119	2.123	5.8	19.5	6 20	17 3.43	-21 48.0	1.037	2.042	5.9	18.7
6 30	16 55.77	-20 27.6	1.162	2.133	11.0	19.9	6 30	16 54.90	-21 26.3	1.057	2.030	11.5	19.0
7 10	16 50.53	-20 25.9	1.226	2.144	15.5	20.1	7 10	16 49.09	-21 9.5	1.096	2.018	16.6	19.2
221333	2000 UO ₅₆		6 9.9 295°58	0°4/ 9.9	18		288142	2003 WK ₁₀₂		6 9.9 286°57	2°1/ 9.5	17	
5 1	17 39.73	-20 23.6	2.219	3.021	13.5	18.7	5 1	17 41.01	-20 23.5	1.506	2.332	17.7	20.9
5 11	17 35.91	-20 45.3	2.123	3.014	10.8	18.5	5 11	17 38.11	-19 55.2	1.409	2.313	14.3	20.6
5 21	17 29.88	-21 8.9	2.048	3.006	7.5	18.3	5 21	17 32.10	-19 24.6	1.332	2.295	10.2	20.3
5 31	17 22.10	-21 33.5	1.999	2.999	3.9	18.0	5 31	17 23.52	-18 52.6	1.276	2.277	5.5	20.0
6 10	17 13.32	-21 58.2	1.977	2.992	0.4	17.7	6 10	17 13.37	-18 21.0	1.245	2.259	2.1	19.7
6 20	17 4.41	-22 22.1	1.982	2.985	4.0	18.0	6 20	17 2.96	-17 52.2	1.240	2.241	6.0	19.9
6 30	16 56.30	-22 45.1	2.016	2.978	7.7	18.2	6 30	16 53.74	-17 29.3	1.258	2.223	11.0	20.1
7 10	16 49.80	-23 7.8	2.073	2.971	11.0	18.4	7 10	16 46.87	-17 14.8	1.298	2.204	15.6	20.3
491429	2012 FZ ₇		6 9.9 154°81	1°3/ 9.7	16		388373	2006 UQ ₇₇		6 9.9 281°11	4°2/10.6	18	
5 1	17 45.31	-20 35.4	1.930	2.730	15.3	22.9	5 1	17 42.17	-33 36.6	2.177	2.964	14.2	21.3
5 11	17 40.41	-20 20.1	1.849	2.738	12.2	22.7	5 11	17 38.24	-34 13.4	2.081	2.956	11.7	21.1
5 21	17 32.98	-20 3.9	1.789	2.746	8.5	22.4	5 21	17 31.72	-34 44.1	2.007	2.948	8.8	20.9
5 31	17 23.64	-19 47.0	1.753	2.752	4.5	22.2	5 31	17 23.14	-35 5.0	1.956	2.940	5.9	20.7
6 10	17 13.33	-19 30.1	1.744	2.758	1.3	22.0	6 10	17 13.37	-35 13.6	1.932	2.932	4.2	20.5
6 20	17 3.10	-19 14.4	1.764	2.764	4.7	22.2	6 20	17 3.47	-35 9.0	1.934	2.924	5.6	20.6
6 30	16 54.03	-19 1.5	1.810	2.769	8.7	22.5	6 30	16 54.58	-34 52.6	1.963	2.916	8.5	20.8
7 10	16 46.93	-18 53.2	1.880	2.773	12.3	22.7	7 10	16 47.61	-34 28.0	2.016	2.908	11.6	20.9
234287	2000 XM ₁₁		6 9.9 188°21	3°9/10.3	18		367499	2009 HA ₇₆		6 9.9 345°30	0°0/ 9.9	17	
5 1	17 47.17	-33 9.7	2.547	3.315	12.9	21.4	5 1	17 36.13	-22 15.6	1.132	1.987	20.5	20.5
5 11	17 41.76	-34 0.8	2.451	3.314	10.6	21.2	5 11	17 35.13	-22 27.1	1.056	1.977	16.5	20.2
5 21	17 33.94	-34 47.3	2.378	3.313	7.9	21.0	5 21	17 30.50	-22 38.9	0.996	1.968	11.6	19.9
5 31	17 24.19	-35 25.5	2.330	3.311	5.3	20.9	5 31	17 22.83	-22 50.0	0.957	1.961	6.0	19.5
6 10	17 13.33	-35 52.4	2.310	3.308	3.9	20.8	6 10	17 13.37	-22 59.4	0.939	1.954	0.0	19.0
6 20	17 2.32	-36 6.5	2.319	3.305	5.2	20.9	6 20	17 3.73	-23 6.7	0.943	1.949	6.1	19.5
6 30	16 52.18	-36 8.4	2.357	3.301	7.8	21.0	6 30	16 55.66	-23 13.2	0.969	1.946	11.9	19.8
7 10	16 43.80	-36 1.1	2.419	3.296	10.5	21.2	7 10	16 50.53	-23 21.1	1.014	1.943	16.9	20.1
311954	2007 DO ₁₈		6 9.9 209°77	4°4/11.0	18		364052	2005 WY ₁₄₃		6 9.9 270°65	0°7/ 9.9	18	
5 1	17 42.13</												

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
128807	2004 <i>RC</i> ₂₅₅		6 9.9 188°23	5°0/ 9.4 18			287345	2002 <i>TN</i> ₃₆₃		6 9.9 266°33	1°0/ 9.8 17		
5 1	17 41.60	- 8 18.9	2.225	3.009	14.0	20.5	5 1	17 40.00	-20 21.4	2.092	2.897	14.1	21.6
5 11	17 37.13	- 8 1.7	2.137	3.008	11.5	20.3	5 11	17 36.25	-20 18.2	1.995	2.888	11.3	21.4
5 21	17 30.58	- 7 52.0	2.070	3.008	8.7	20.2	5 21	17 30.20	-20 15.2	1.920	2.879	7.9	21.2
5 31	17 22.42	- 7 51.9	2.027	3.006	6.1	20.0	5 31	17 22.33	-20 12.4	1.870	2.870	4.1	20.9
6 10	17 13.40	- 8 2.8	2.012	3.004	5.0	19.9	6 10	17 13.43	-20 9.8	1.846	2.860	1.0	20.7
6 20	17 4.35	- 8 25.0	2.024	3.002	6.4	20.0	6 20	17 4.43	-20 8.0	1.849	2.851	4.3	20.9
6 30	16 56.11	- 8 57.9	2.063	2.999	9.1	20.2	6 30	16 56.31	-20 8.0	1.880	2.841	8.2	21.1
7 10	16 49.43	- 9 40.2	2.126	2.996	12.0	20.3	7 10	16 49.89	-20 10.9	1.934	2.832	11.7	21.3
419638	2010 <i>TO</i> ₁₇		6 9.9 156°08	2°1/10.4 17			131154	2001 <i>CZ</i> ₉		6 9.9 79°54	3°6/10.6 18		
5 1	17 46.20	-28 35.9	1.848	2.646	16.0	22.1	5 1	17 47.21	-31 33.2	1.939	2.728	15.7	20.2
5 11	17 41.51	-28 44.7	1.765	2.651	12.9	21.9	5 11	17 42.04	-32 10.3	1.878	2.755	12.6	20.0
5 21	17 33.99	-28 47.9	1.703	2.656	9.2	21.7	5 21	17 34.16	-32 41.0	1.837	2.782	9.2	19.9
5 31	17 24.27	-28 43.2	1.665	2.661	5.1	21.5	5 31	17 24.26	-33 1.4	1.820	2.808	5.7	19.7
6 10	17 13.41	-28 29.4	1.653	2.665	2.1	21.3	6 10	17 13.43	-33 9.6	1.830	2.835	3.6	19.6
6 20	17 2.62	-28 7.0	1.668	2.669	4.8	21.5	6 20	17 2.85	-33 5.2	1.867	2.860	5.3	19.8
6 30	16 53.12	-27 38.8	1.710	2.672	8.8	21.7	6 30	16 53.67	-32 50.7	1.930	2.886	8.4	20.0
7 10	16 45.86	-27 8.7	1.776	2.675	12.5	21.9	7 10	16 46.70	-32 29.9	2.018	2.911	11.5	20.3
348386	2005 <i>GQ</i> ₆₈		6 9.9 351°28	2°5/10.1 18			484382	2007 <i>VQ</i> ₂₈₂		6 9.9 222°14	0°4/10.1 17		
5 1	17 40.90	-13 49.0	1.738	2.549	16.3	20.0	5 1	17 35.64	-24 18.0	3.775	4.558	8.8	23.2
5 11	17 37.39	-14 20.7	1.652	2.546	13.2	19.8	5 11	17 31.69	-24 25.0	3.671	4.550	7.0	23.0
5 21	17 31.23	-15 1.2	1.586	2.543	9.4	19.6	5 21	17 26.43	-24 30.7	3.590	4.543	4.8	22.9
5 31	17 22.94	-15 50.4	1.544	2.541	5.3	19.3	5 31	17 20.20	-24 34.5	3.537	4.535	2.5	22.7
6 10	17 13.41	-16 46.9	1.527	2.539	2.5	19.1	6 10	17 13.44	-24 36.3	3.512	4.527	0.4	22.5
6 20	17 3.73	-17 48.5	1.538	2.538	5.3	19.3	6 20	17 6.64	-24 36.2	3.518	4.519	2.5	22.7
6 30	16 55.07	-18 52.7	1.574	2.537	9.4	19.5	6 30	17 0.30	-24 34.7	3.552	4.511	4.8	22.8
7 10	16 48.40	-19 57.9	1.634	2.536	13.2	19.8	7 10	16 54.87	-24 32.6	3.613	4.502	7.0	23.0
94955	2001 <i>YS</i> ₉₀		6 9.9 105°62	12°5/12.1 18			459568	2013 <i>GY</i> ₁₀₃		6 9.9 76°88	1°3/10.2 17		
5 1	18 5.40	-51 14.7	1.815	2.527	19.2	19.5	5 1	17 46.61	-25 28.5	1.337	2.160	19.7	21.8
5 11	17 58.85	-53 17.1	1.761	2.551	17.1	19.4	5 11	17 42.58	-25 41.2	1.276	2.177	15.7	21.6
5 21	17 47.35	-55 2.4	1.725	2.576	15.0	19.3	5 21	17 35.06	-25 50.3	1.233	2.195	11.0	21.3
5 31	17 31.59	-56 18.9	1.710	2.599	13.3	19.2	5 31	17 24.89	-25 53.5	1.212	2.212	5.8	21.1
6 10	17 13.40	-56 57.8	1.718	2.622	12.5	19.2	6 10	17 13.44	-25 49.5	1.215	2.229	1.3	20.8
6 20	16 55.28	-56 56.4	1.748	2.644	12.8	19.3	6 20	17 2.28	-25 38.7	1.243	2.246	5.5	21.2
6 30	16 39.75	-56 19.6	1.800	2.665	14.0	19.4	6 30	16 52.92	-25 24.1	1.295	2.263	10.4	21.5
7 10	16 28.49	-55 17.8	1.873	2.685	15.7	19.6	7 10	16 46.41	-25 9.3	1.369	2.280	14.7	21.8
26816	1986 <i>TS</i>		6 9.9 233°95	5°1/11.2 18			387031	2012 <i>SP</i> ₁₆		6 9.9 254°65	2°2/10.5 17		
5 1	17 45.55	-39 55.1	2.802	3.551	12.3	18.8	5 1	17 42.00	-29 22.0	1.994	2.794	14.9	21.2
5 11	17 40.46	-40 25.5	2.694	3.536	10.4	18.7	5 11	17 38.08	-29 27.6	1.904	2.791	12.0	21.0
5 21	17 33.03	-40 47.3	2.607	3.522	8.2	18.5	5 21	17 31.57	-29 27.2	1.835	2.788	8.6	20.7
5 31	17 23.75	-40 56.8	2.546	3.507	6.2	18.3	5 31	17 23.05	-29 18.9	1.789	2.785	4.9	20.5
6 10	17 13.41	-40 51.6	2.511	3.491	5.1	18.2	6 10	17 13.44	-29 1.7	1.770	2.782	2.2	20.3
6 20	17 2.96	-40 31.0	2.504	3.475	5.8	18.3	6 20	17 3.83	-28 36.4	1.778	2.779	4.6	20.5
6 30	16 53.40	-39 56.7	2.524	3.458	7.8	18.4	6 30	16 55.33	-28 5.2	1.813	2.776	8.3	20.7
7 10	16 45.54	-39 12.3	2.570	3.441	10.1	18.5	7 10	16 48.81	-27 32.0	1.872	2.773	11.8	20.9
393662	2004 <i>RH</i> ₃₂		6 9.9 313°16	4°0/10.5 18			32252	2000 <i>OJ</i> ₅₁		6 9.9 25°50	0°3/10.1 18		
5 1	17 39.96	-32 32.7	2.056	2.853	14.6	20.6	5 1	17 42.79	-27 25.4	1.676	2.488	16.8	17.4
5 11	17 36.71	-33 6.3	1.954	2.836	12.0	20.3	5 11	17 38.95	-26 41.9	1.593	2.490	13.4	17.2
5 21	17 30.82	-33 34.4	1.873	2.819	9.0	20.1	5 21	17 32.25	-25 49.5	1.531	2.491	9.4	16.9
5 31	17 22.76	-33 53.4	1.815	2.803	5.8	19.9	5 31	17 23.38	-24 48.0	1.492	2.493	4.9	16.7
6 10	17 13.41	-34 0.7	1.783	2.786	4.0	19.7	6 10	17 13.45	-23 39.8	1.480	2.495	0.3	16.3
6 20	17 3.85	-33 55.4	1.777	2.770	5.6	19.8	6 20	17 3.69	-22 28.5	1.494	2.497	4.8	16.7
6 30	16 55.25	-33 38.9	1.797	2.755	8.8	20.0	6 30	16 55.31	-21 19.3	1.534	2.499	9.3	16.9
7 10	16 48.61	-33 14.4	1.841	2.740	12.2	20.1	7 10	16 49.19	-20 17.2	1.597	2.501	13.3	17.2
107680	2001 <i>FS</i> ₁₀		6 9.9 6°61	5°9/10.7 17			386446	2008 <i>WQ</i> ₉₅		6 9.9 206°18	2°3/ 9.5 17		
5 1	17 42.90	-33 41.2	1.356	2.176	19.6	19.4	5 1	17 40.43	-17 45.5	2.096	2.899	14.2	21.4
5 11	17 40.31	-34 30.3	1.282	2.176	16.2	19.2	5 11	17 36.44	-17 21.5	2.007	2.897	11.3	21.2
5 21	17 33.98	-35 10.9	1.226	2.177	12.2	19.0	5 21	17 30.22	-16 58.1	1.938	2.895	8.0	21.0
5 31	17 24.56	-35 37.1	1.190	2.178	8.2	18.7	5 31	17 22.29	-16 36.4	1.895	2.892	4.5	20.8
6 10	17 13.41	-35 44.3	1.178	2.179	5.9	18.6	6 10	17 13.46	-16 17.7	1.879	2.890	2.4	20.6
6 20	17 2.24	-35 31.3	1.189	2.182	7.7	18.7	6 20	17 4.61	-16 3.4	1.890	2.887	4.9	20.8
6 30	16 52.81	-35 1.3	1.222	2.185	11.5	18.9	6 30	16 56.68	-15 54.8	1.928	2.883	8.4	21.0
7 10	16 46.42	-34 21.0	1.277	2.188	15.5	19.2	7 10	16 50.43	-15 52.9	1.989	2.880	11.8	21.2
462240	2008 <i>CV</i> ₄₂		6 9.9 9°88	0°7/ 9.9 17			187719	2008 <i>EG</i> ₈₃		6 9.9 152°41	2°9/ 9.1 16		
5 1	17 38.11	-20 41.2	1.217	2.063	19.9	20.7	5 1	17 38.24	-15 41.4	2.465	3.262	12.5	20.4
5 11	17 36.24	-20 51.7	1.149	2.065	15.9	20.4	5 11	17 34.26	-15 4.9	2.379	3.264	10.0	20.2
5 21	17 30.95	-21 4.0	1.098	2.067	11.1	20.2	5 21	17 28.46	-14 29.5	2.315	3.267	7.2	20.0
5 31	17 22.93	-21 17.4	1.068	2.071	5.7	19.9	5 31	17 21.30	-13 56.8	2.277	3.269	4.3	19.8
6 10	17 13.42	-21 31.2	1.061	2.076	0.7	19.5	6 10	17 13.46	-13 28.8	2.266	3.272	2.9	19.8
6 20	17 3.95	-21 44.9	1.076	2.081	5.8	19.9	6 20	17 5.67	-13 6.7	2.284	3.274	4.8	19.9
6 30	16 56.04	-21 59.3	1.115	2.088	11.1	20.2	6 30	16 58.65	-12 52.1	2.328	3.276	7.7	20.1
7 10	16 50.85	-22 15.4	1.174	2.096	15.7	20.5	7 10	16 53.02	-12 45.4	2.398	3.278	10.4	20.2
189788	2002 <i>ER</i> ₂₇		6 9.9 138°24	3°4/ 9.4 18			39603	1993 <i>TU</i> ₂₀		6 9			

EPHEMERIDES

6 9.9

6 10.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
477635	2010 <i>MU</i> _h 6 9.9 245°17' 3°0' / 8.6 17						334423	2002 <i>EB</i> ₁₅₁ 6 10.0 292°63' 7°1' / 8.5 18					
5 1	17 39.86	-17 11.1	2.703	3.492	11.7	21.5	5 11	17 35.50	-5 58.2	1.769	2.647	13.3	20.3
5 11	17 35.41	-16 5.1	2.599	3.480	9.4	21.3	5 21	17 29.67	-5 8.1	1.710	2.646	10.4	20.1
5 21	17 29.21	-14 56.8	2.518	3.469	6.8	21.1	5 31	17 22.06	-4 29.8	1.674	2.645	8.0	20.0
5 31	17 21.68	-13 48.4	2.465	3.457	4.1	20.9	6 10	17 13.51	-4 7.0	1.662	2.643	7.1	19.9
6 10	17 13.47	-12 42.7	2.441	3.444	3.0	20.8	6 20	17 4.97	-4 1.7	1.676	2.642	8.6	20.0
6 20	17 5.26	-11 42.5	2.446	3.432	4.9	20.9	6 30	16 57.40	-4 14.5	1.715	2.641	11.3	20.2
6 30	16 57.74	-10 50.5	2.480	3.419	7.6	21.1	7 10	16 51.61	-4 43.5	1.775	2.640	14.2	20.4
7 10	16 51.53	-10 8.5	2.539	3.406	10.3	21.2	7 20	16 48.07	-5 26.0	1.854	2.639	16.8	20.5
258818	2002 <i>NG</i> ₅₉ 6 10.0 341°98' 1°7' / 9.8 17						507491	2012 <i>UE</i> ₄₄ 6 10.0 183°28' 2°5' / 10.8 18					
5 11	17 34.36	-20 9.9	1.077	1.998	16.3	20.2	5 11	17 39.04	-31 50.5	2.095	2.972	11.5	21.0
5 21	17 29.93	-19 59.1	1.014	1.986	11.5	19.9	5 21	17 32.06	-31 32.6	2.025	2.973	8.3	20.8
5 31	17 22.57	-19 49.1	0.972	1.975	6.1	19.6	5 31	17 23.25	-31 4.6	1.980	2.973	4.9	20.6
6 10	17 13.47	-19 41.0	0.950	1.965	1.7	19.3	6 10	17 13.51	-30 26.0	1.963	2.972	2.5	20.4
6 20	17 4.18	-19 36.0	0.952	1.956	6.4	19.5	6 20	17 3.87	-29 38.4	1.973	2.972	4.4	20.5
6 30	16 56.36	-19 36.1	0.974	1.949	12.0	19.8	6 30	16 55.34	-28 45.1	2.011	2.971	7.8	20.7
7 10	16 51.33	-19 43.0	1.016	1.943	17.1	20.1	7 10	16 48.71	-27 50.3	2.073	2.970	11.1	20.9
7 20	16 49.80	-19 57.2	1.075	1.939	21.4	20.3	7 20	16 44.46	-26 58.0	2.158	2.969	13.9	21.1
395526	2011 <i>UZ</i> ₁₃₉ 6 10.0 196°74' 3°8' / 10.7 18						24884	1996 <i>XL</i> ₅ 6 10.0 228°28' 1°9' / 9.9 18					
5 11	17 38.36	-35 21.0	2.649	3.511	9.9	21.7	5 11	17 38.71	-16 33.2	2.070	2.955	11.3	18.8
5 21	17 31.48	-35 50.1	2.576	3.509	7.5	21.5	5 21	17 31.91	-16 51.2	1.992	2.946	8.0	18.6
5 31	17 22.94	-36 10.4	2.528	3.506	5.1	21.4	5 31	17 23.25	-17 13.4	1.940	2.937	4.4	18.4
6 10	17 13.48	-36 19.7	2.507	3.503	3.8	21.3	6 10	17 13.52	-17 39.3	1.915	2.927	1.9	18.2
6 20	17 3.95	-36 17.4	2.515	3.500	4.9	21.3	6 20	17 3.61	-18 8.2	1.918	2.917	4.5	18.3
6 30	16 55.23	-36 4.7	2.550	3.496	7.2	21.5	6 30	16 54.51	-18 39.7	1.949	2.906	8.3	18.5
7 10	16 48.09	-35 44.3	2.611	3.492	9.6	21.6	7 10	16 47.08	-19 13.6	2.005	2.895	11.7	18.7
7 20	16 43.02	-35 19.5	2.694	3.488	11.9	21.8	7 20	16 41.86	-19 49.6	2.082	2.884	14.7	18.9
320300	2007 <i>RR</i> ₂₈₃ 6 10.0 265°08' 0°1' / 9.9 17						437635	2014 <i>BE</i> ₃₅ 6 10.0 189°84' 9°9' / 8.4 18					
5 11	17 36.71	-23 14.8	1.938	2.832	11.6	21.5	5 11	17 36.05	+9 22.7	2.425	3.222	12.8	21.3
5 21	17 30.54	-23 8.6	1.869	2.828	8.1	21.3	5 21	17 29.69	+9 58.8	2.367	3.221	11.3	21.2
5 31	17 22.52	-22 59.8	1.823	2.824	4.2	21.0	5 31	17 21.96	+10 15.6	2.331	3.219	10.2	21.1
6 10	17 13.48	-22 48.5	1.805	2.820	0.1	20.7	6 10	17 13.53	+10 10.2	2.319	3.217	9.9	21.1
6 20	17 4.41	-22 35.3	1.813	2.816	4.2	21.0	6 20	17 5.09	+9 41.7	2.331	3.215	10.5	21.1
6 30	16 56.32	-22 22.0	1.849	2.812	8.2	21.2	6 30	16 57.40	+8 51.1	2.367	3.212	11.8	21.2
7 10	16 50.03	-22 10.4	1.908	2.808	11.7	21.5	7 10	16 51.08	+7 41.8	2.425	3.208	13.3	21.3
7 20	16 46.08	-22 2.4	1.988	2.804	14.7	21.7	7 20	16 46.52	+6 17.9	2.502	3.204	14.9	21.5
163385	2002 <i>PL</i> ₁₂₇ 6 10.0 4°23' 0°2' / 9.9 17						201743	2003 <i>UZ</i> ₂₆₅ 6 10.0 275°92' 1°5' / 9.7 18					
5 11	17 32.38	-21 44.3	1.111	2.033	15.8	18.7	5 11	17 36.42	-19 49.7	1.865	2.760	11.8	20.5
5 21	17 28.37	-22 2.5	1.060	2.032	11.0	18.5	5 21	17 30.41	-19 30.2	1.792	2.752	8.3	20.2
5 31	17 21.66	-22 21.3	1.029	2.033	5.7	18.2	5 31	17 22.50	-19 10.4	1.743	2.743	4.4	20.0
6 10	17 13.48	-22 39.5	1.021	2.036	0.2	17.7	6 10	17 13.53	-18 51.3	1.721	2.734	1.5	19.8
6 20	17 5.29	-22 56.5	1.034	2.040	5.7	18.2	6 20	17 4.49	-18 34.3	1.725	2.725	4.7	20.0
6 30	16 58.59	-23 12.9	1.070	2.047	10.9	18.5	6 30	16 56.40	-18 21.1	1.755	2.717	8.7	20.2
7 10	16 54.55	-23 29.7	1.126	2.055	15.6	18.8	7 10	16 50.13	-18 13.3	1.810	2.708	12.4	20.4
7 20	16 53.75	-23 47.9	1.199	2.065	19.5	19.1	7 20	16 46.20	-18 11.7	1.884	2.699	15.5	20.6
344172	2001 <i>AV</i> ₄₉ 6 10.0 216°13' 3°4' / 10.9 18						499673	2010 <i>VD</i> ₁₉₅ 6 10.0 263°13' 3°4' / 10.5 17					
5 11	17 40.79	-34 29.2	2.490	3.353	10.4	22.0	5 11	17 42.19	-30 49.7	1.682	2.567	13.5	21.6
5 21	17 33.21	-34 33.0	2.407	3.343	7.8	21.8	5 21	17 35.01	-31 12.5	1.596	2.546	9.9	21.3
5 31	17 23.84	-34 26.7	2.349	3.332	5.1	21.6	5 31	17 25.12	-31 26.6	1.533	2.525	6.0	21.0
6 10	17 13.49	-34 8.7	2.319	3.321	3.4	21.5	6 10	17 13.53	-31 28.8	1.495	2.504	3.4	20.8
6 20	17 3.09	-33 39.2	2.318	3.309	4.6	21.5	6 20	17 1.57	-31 17.7	1.484	2.481	5.8	20.9
6 30	16 53.60	-33 0.3	2.345	3.297	7.4	21.7	6 30	16 50.70	-30 55.3	1.498	2.459	10.0	21.1
7 10	16 45.84	-32 15.8	2.398	3.283	10.2	21.8	7 10	16 42.20	-30 26.0	1.536	2.435	14.1	21.3
7 20	16 40.30	-31 29.5	2.474	3.269	12.8	22.0	7 20	16 36.83	-29 54.8	1.593	2.412	17.7	21.4
443768	2015 <i>MB</i> ₅₆ 6 10.0 41°34' 1°8' / 10.6 17						504809	2010 <i>CZ</i> ₁₆₀ 6 10.0 169°50' 1°4' / 10.4 17					
5 11	17 37.25	-30 5.4	1.891	2.778	12.1	19.7	5 11	17 38.71	-27 54.4	2.253	3.134	10.7	22.0
5 21	17 30.83	-29 33.4	1.833	2.787	8.6	19.5	5 21	17 31.73	-27 51.5	2.185	3.137	7.5	21.8
5 31	17 22.59	-28 51.7	1.800	2.796	4.8	19.3	5 31	17 23.07	-27 42.5	2.143	3.140	4.1	21.6
6 10	17 13.50	-28 1.3	1.793	2.806	1.8	19.1	6 10	17 13.54	-27 26.9	2.129	3.142	1.4	21.4
6 20	17 4.62	-27 4.6	1.813	2.815	4.3	19.3	6 20	17 4.05	-27 5.5	2.143	3.144	3.9	21.6
6 30	16 56.95	-26 5.4	1.860	2.825	8.0	19.6	6 30	16 55.53	-26 40.2	2.186	3.146	7.3	21.8
7 10	16 51.27	-25 8.2	1.932	2.836	11.4	19.8	7 10	16 48.72	-26 13.7	2.253	3.147	10.4	22.0
7 20	16 47.98	-24 16.2	2.025	2.846	14.3	20.0	7 20	16 44.09	-25 48.7	2.342	3.148	13.1	22.2
168876	2000 <i>WZ</i> ₂₄ 6 10.0 201°56' 1°4' / 10.3 17						315448	2007 <i>WZ</i> ₆₀ 6 10.0 104°41' 0°2' / 10.1 17					
5 11	17 41.99	-27 37.6	2.021	2.902	11.7	21.2	5 11	17 41.19	-24 37.8	1.553	2.448	13.8	20.8
5 21	17 34.22	-27 32.4	1.946	2.897	8.3	20.9	5 21	17 33.79	-24 19.4	1.502	2.462	9.6	20.6
5 31	17 24.42	-27 20.3	1.895	2.892	4.5	20.7	5 31	17 24.19	-23 56.0	1.475	2.476	4.9	20.3
6 10	17 13.51	-27 0.6	1.872	2.885	1.4	20.5	6 10	17 13.54	-23 28.0	1.474	2.489	0.2	20.0
6 20	17 2.55	-26 34.1	1.877	2.878	4.3	20.6	6 20	17 3.13	-22 57.4	1.499	2.503	4.8	20.4
6 30	16 52.66	-26 3.1	1.910	2.870	8.2	20.9	6 30	16 54.19	-22 27.1	1.551	2.515	9.3	20.7
7 10	16 44.75	-25 31.0	1.968	2.861	11.8	21.1	7 10	16 47.61	-22 0.6	1.625	2.528	13.2	20.9
7 20	16 39.35	-25 1.3	2.048	2.851	14.8	21.3	7 20	16 43.86	-21 40.0	1.719	2.540	16.5	21.2
471144	2010 <i>FY</i> 6 10.0 316°41' 0°2' / 10.0 17						180316	2003 <i>XQ</i> ₇ 6 10.0 292°01' 3°5' / 9.6 18					
5 11	17 36.85	-23 28.3	1.772	2.668	12.3	21.3	5 11	17 38.27	-15 22.0	1.416	2.317	14.5	20.3
5 21	17 30.81	-23 30.7	1.703	2.663	8.6	21.1	5 21	17 32.35	-15 11.6	1.333	2.293	10.5	20.0
5 31	17 22.72	-23 30.7	1.658	2.659	4.4	20.8	5 31	17 23.80	-15 7.0	1.273	2.270	6.2	19.7
6 10	17 13.51	-23 27.9	1.639	2.654	0.2	20.4	6 10	17 13.55	-15 9.6	1.236	2.246	3.5	19.5
6 20	17 4.23	-23 22.4	1.647	2.650	4.4	20.8	6 20	17 2.88	-15 20.3	1.225	2.223	6.7	19.6
6 30	16 55.99	-23 15.9	1.681	2.646	8.7	21.0	6 30	16 53.22	-15 39.9	1.237	2.199	11.5	19.8
7 10	16 49.73	-23 10.2	1.738	2.642	12.4	21.3	7 10	16 45.83	-16 8.4	1.271	2.17		