

EPHEMERIDES

7 21.9

7 22.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
146328	2001 <i>NV</i> ₆		7 21.9 334°96	1°8/21.1	18		93753	2000 <i>WO</i> ₅		7 21.9 99°60	8°1/17.8	18	
6 20	20 25.76	-19 56.7	1.163	2.079	16.3	19.3	6 20	20 35.31	-39 1.2	1.742	2.624	13.6	19.4
6 30	20 22.35	-21 1.5	1.095	2.063	11.8	19.0	6 30	20 28.68	-40 17.3	1.691	2.626	10.9	19.2
7 10	20 16.10	-22 18.8	1.047	2.049	6.7	18.7	7 10	20 19.38	-41 22.3	1.663	2.628	8.7	19.1
7 20	20 7.80	-23 41.3	1.021	2.036	1.9	18.3	7 20	20 8.37	-42 8.2	1.658	2.630	8.2	19.1
7 30	19 58.84	-25 0.0	1.018	2.023	5.5	18.5	7 30	19 57.07	-42 29.4	1.679	2.632	9.5	19.2
8 9	19 50.86	-26 6.6	1.037	2.012	11.0	18.8	8 9	19 46.97	-42 24.8	1.724	2.634	12.0	19.3
8 19	19 45.26	-26 56.5	1.077	2.002	16.1	19.0	8 19	19 39.27	-41 57.2	1.789	2.636	14.7	19.5
8 29	19 43.06	-27 28.2	1.135	1.994	20.4	19.3	8 29	19 34.72	-41 11.7	1.874	2.638	17.1	19.7
355114	2006 <i>UX</i> ₆₈		7 21.9 267°91	0°9/21.5	18		91308	1999 <i>FY</i> ₅₂		7 21.9 251°31	4°8/20.2	18	
6 20	20 28.71	-20 54.9	2.183	3.067	11.1	21.3	6 20	20 36.24	-29 46.2	1.431	2.329	15.0	18.5
6 30	20 23.34	-21 28.9	2.098	3.051	8.0	21.1	6 30	20 29.60	-30 26.1	1.365	2.321	11.1	18.3
7 10	20 16.18	-22 7.4	2.038	3.035	4.5	20.9	7 10	20 20.03	-31 2.5	1.320	2.313	7.2	18.0
7 20	20 7.80	-22 47.0	2.004	3.019	1.0	20.6	7 20	20 8.50	-31 28.2	1.299	2.305	4.8	17.9
7 30	19 59.04	-23 23.9	1.998	3.002	3.4	20.7	7 30	19 56.52	-31 37.1	1.304	2.297	7.0	18.0
8 9	19 50.82	-23 55.0	2.019	2.986	7.2	20.9	8 9	19 45.76	-31 27.4	1.332	2.288	11.1	18.2
8 19	19 43.99	-24 18.5	2.066	2.969	10.6	21.1	8 19	19 37.54	-31 0.6	1.383	2.279	15.2	18.4
8 29	19 39.21	-24 33.8	2.136	2.951	13.6	21.3	8 29	19 32.72	-30 20.7	1.453	2.270	18.8	18.7
201171	2002 <i>NJ</i> ₆₃		7 21.9 289°39	1°7/20.9	18		136449	2005 <i>EA</i> ₁₄₀		7 21.9 17°99	8°5/17.1	17	
6 20	20 28.85	-21 28.0	1.806	2.699	12.6	20.5	6 20	20 32.21	-38 19.9	1.630	2.520	13.9	18.9
6 30	20 23.72	-22 30.8	1.734	2.692	9.1	20.3	6 30	20 26.59	-39 52.6	1.583	2.523	11.1	18.7
7 10	20 16.50	-23 39.9	1.686	2.685	5.1	20.0	7 10	20 18.26	-41 14.9	1.559	2.526	9.0	18.6
7 20	20 7.86	-24 49.7	1.664	2.678	1.8	19.8	7 20	20 8.19	-42 17.8	1.558	2.530	8.6	18.6
7 30	19 58.81	-25 54.2	1.669	2.671	4.4	19.9	7 30	19 57.77	-42 55.0	1.582	2.534	10.0	18.7
8 9	19 50.47	-26 48.7	1.700	2.664	8.5	20.2	8 9	19 48.55	-43 4.6	1.628	2.539	12.6	18.8
8 19	19 43.81	-27 30.5	1.755	2.657	12.2	20.4	8 19	19 41.72	-42 49.2	1.695	2.544	15.2	19.0
8 29	19 39.60	-27 59.2	1.831	2.650	15.4	20.6	8 29	19 38.06	-42 13.6	1.781	2.550	17.7	19.2
377578	2005 <i>NJ</i> ₂₁		7 21.9 0°60	4°0/23.1	17		518979	2010 <i>HU</i> ₈₈		7 21.9 58°91	1°0/22.6	18	
6 20	20 27.02	-13 42.4	1.053	1.961	18.3	20.1	6 20	20 28.78	-13 58.1	1.610	2.494	14.4	20.6
6 30	20 23.11	-13 5.5	0.998	1.958	13.7	19.8	6 30	20 23.57	-14 56.7	1.559	2.510	10.4	20.4
7 10	20 16.38	-12 41.9	0.961	1.956	8.7	19.6	7 10	20 16.33	-16 7.8	1.530	2.525	6.0	20.2
7 20	20 7.85	-12 31.5	0.945	1.956	4.4	19.3	7 20	20 7.85	-17 26.3	1.526	2.541	1.6	19.9
7 30	19 58.99	-12 32.6	0.951	1.957	5.7	19.4	7 30	19 59.18	-18 45.7	1.549	2.557	3.6	20.1
8 9	19 51.38	-12 42.0	0.978	1.959	10.6	19.7	8 9	19 51.45	-20 0.2	1.598	2.572	8.0	20.4
8 19	19 46.28	-12 55.8	1.026	1.963	15.4	20.0	8 19	19 45.54	-21 5.5	1.672	2.589	11.9	20.7
8 29	19 44.47	-13 10.5	1.091	1.969	19.6	20.2	8 29	19 42.09	-21 59.3	1.768	2.605	15.1	21.0
306345	2011 <i>SP</i> ₁₅₁		7 21.9 60°21	0°6/22.3	18		102936	1999 <i>XH</i> ₄₄		7 21.9 175°27	3°5/23.9	18	
6 20	20 28.38	-17 0.1	1.981	2.863	12.2	21.0	6 20	20 29.88	-8 47.7	2.466	3.311	11.3	20.4
6 30	20 23.07	-17 22.1	1.913	2.863	8.8	20.8	6 30	20 23.80	-8 34.9	2.391	3.314	8.7	20.2
7 10	20 15.98	-17 51.1	1.868	2.864	5.1	20.6	7 10	20 16.27	-8 31.8	2.341	3.316	5.9	20.0
7 20	20 7.76	-18 24.4	1.849	2.864	1.1	20.3	7 20	20 7.84	-8 37.9	2.317	3.317	3.7	19.9
7 30	19 59.30	-18 58.5	1.858	2.865	3.2	20.5	7 30	19 59.22	-8 52.0	2.322	3.318	4.1	19.9
8 9	19 51.56	-19 30.3	1.894	2.866	7.1	20.7	8 9	19 51.18	-9 12.0	2.356	3.319	6.5	20.1
8 19	19 45.32	-19 57.5	1.954	2.866	10.7	20.9	8 19	19 44.36	-9 35.7	2.416	3.319	9.3	20.2
8 29	19 41.22	-20 18.8	2.037	2.867	13.7	21.1	8 29	19 39.28	-10 0.8	2.499	3.318	11.8	20.4
39351	2002 <i>AB</i> ₁₂₂		7 21.9 284°32	1°0/21.5	18		257673	1999 <i>VK</i> ₁₀₆		7 21.9 237°98	0°6/22.3	17	
6 20	20 31.29	-19 42.4	1.347	2.247	15.6	18.9	6 20	20 32.45	-17 30.6	1.732	2.615	13.6	21.8
6 30	20 26.15	-20 26.2	1.269	2.230	11.3	18.6	6 30	20 26.36	-17 44.9	1.653	2.604	9.9	21.5
7 10	20 18.19	-21 20.0	1.213	2.213	6.4	18.2	7 10	20 18.02	-18 6.7	1.597	2.593	5.7	21.2
7 20	20 8.19	-22 18.1	1.180	2.195	1.3	17.9	7 20	20 8.17	-18 32.9	1.566	2.582	1.2	20.9
7 30	19 57.48	-23 13.6	1.172	2.178	4.9	18.0	7 30	19 57.88	-18 59.8	1.563	2.570	3.7	21.1
8 9	19 47.62	-24 0.5	1.188	2.161	10.3	18.3	8 9	19 48.35	-19 24.2	1.585	2.557	8.2	21.3
8 19	19 39.99	-24 35.3	1.226	2.143	15.2	18.5	8 19	19 40.62	-19 43.9	1.633	2.544	12.4	21.5
8 29	19 35.62	-24 57.2	1.283	2.126	19.4	18.8	8 29	19 35.47	-19 57.7	1.701	2.531	15.9	21.7
167488	2003 <i>YN</i> ₆₆		7 21.9 243°36	0°3/21.7	18		174637	2003 <i>SK</i> ₁₃₇		7 22.0 300°79	0°8/22.3	18	
6 20	20 29.27	-18 7.4	2.318	3.194	10.9	19.9	6 20	20 30.56	-17 38.1	1.309	2.209	16.0	20.0
6 30	20 23.69	-19 1.9	2.229	3.178	7.9	19.7	6 30	20 25.67	-17 47.4	1.228	2.188	11.8	19.7
7 10	20 16.37	-20 3.9	2.166	3.162	4.4	19.5	7 10	20 17.95	-18 6.4	1.168	2.167	6.8	19.3
7 20	20 7.85	-21 9.6	2.130	3.146	0.7	19.2	7 20	20 8.21	-18 31.9	1.131	2.146	1.5	18.9
7 30	19 58.90	-22 14.5	2.124	3.129	3.2	19.3	7 30	19 57.74	-18 59.4	1.118	2.126	4.5	19.1
8 9	19 50.41	-23 14.5	2.146	3.112	6.9	19.5	8 9	19 48.12	-19 24.6	1.129	2.106	10.1	19.3
8 19	19 43.18	-24 6.7	2.194	3.094	10.2	19.7	8 19	19 40.72	-19 44.6	1.161	2.086	15.2	19.6
8 29	19 37.89	-24 49.6	2.266	3.075	13.1	19.9	8 29	19 36.57	-19 57.6	1.212	2.067	19.6	19.8
138296	2000 <i>GE</i> ₄₀		7 21.9 206°78	3°1/20.5	17		250534	2004 <i>QW</i> ₄		7 22.0 331°58	0°8/22.3	18	
6 20	20 34.14	-26 56.8	1.927	2.813	12.3	21.0	6 20	20 29.30	-18 59.1	1.825	2.713	12.8	19.4
6 30	20 27.43	-27 37.0	1.856	2.808	8.9	20.8	6 30	20 23.92	-18 39.5	1.748	2.701	9.3	19.2
7 10	20 18.53	-28 16.6	1.809	2.803	5.4	20.6	7 10	20 16.56	-18 23.5	1.694	2.691	5.4	18.9
7 20	20 8.22	-28 50.4	1.788	2.797	3.1	20.4	7 20	20 7.93	-18 9.7	1.665	2.680	1.3	18.6
7 30	19 57.57	-29 14.0	1.795	2.791	5.1	20.5	7 30	19 59.00	-17 56.6	1.663	2.670	3.5	18.8
8 9	19 47.75	-29 25.1	1.829	2.784	8.7	20.7	8 9	19 50.84	-17 43.1	1.688	2.661	7.7	19.0
8 19	19 39.77	-29 23.4	1.888	2.777	12.1	20.9	8 19	19 44.34	-17 28.5	1.737	2.652	11.5	19.2
8 29	19 34.34	-29 10.8	1.967	2.769	15.1	21.1	8 29	19 40.19	-17 12.4	1.807	2.644	14.8	19.4
166669	2002 <i>TQ</i> ₆₁		7 21.9 241°67	0°5/21.8	18		376384	2012					

EPHEMERIDES

7 22.0

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
294916	2008 <i>DD</i> ₃₅	7 22.0 127°43		0°4/22.2 17			471633	2012 <i>TC</i> ₅₄	7 22.0 320°43		7°6/24.0 18		
6 20	20 32.95	-18 3.3	1.674	2.558	13.9	22.0	6 20	20 28.56	-5 46.2	1.449	2.314	16.7	20.7
6 30	20 26.55	-18 21.6	1.616	2.568	10.0	21.7	6 30	20 23.87	-4 39.7	1.367	2.294	13.5	20.5
7 10	20 18.01	-18 46.6	1.580	2.577	5.7	21.5	7 10	20 16.79	-3 48.0	1.305	2.275	10.2	20.2
7 20	20 8.16	-19 14.7	1.570	2.586	1.1	21.2	7 20	20 8.03	-3 14.3	1.266	2.256	7.8	20.0
7 30	19 58.14	-19 42.3	1.587	2.594	3.7	21.4	7 30	19 58.70	-3 0.4	1.251	2.238	8.1	20.0
8 9	19 49.10	-20 6.0	1.631	2.602	8.1	21.7	8 9	19 50.09	-3 5.0	1.258	2.220	11.0	20.1
8 19	19 41.99	-20 24.1	1.698	2.610	12.0	22.0	8 19	19 43.35	-3 24.9	1.288	2.203	14.7	20.3
8 29	19 37.47	-20 35.8	1.787	2.617	15.3	22.2	8 29	19 39.35	-3 55.1	1.336	2.187	18.3	20.5
133403	2003 <i>SR</i> ₁₆₉	7 22.0 280°33		1°2/22.6 18			23185	2000 <i>PQ</i> ₇	7 22.0 284°77		1°4/21.0 18		
6 20	20 28.91	-15 32.4	1.801	2.683	13.2	20.2	6 20	20 28.09	-20 53.5	2.144	3.030	11.2	18.2
6 30	20 23.69	-15 51.4	1.727	2.676	9.7	20.0	6 30	20 23.06	-21 56.5	2.054	3.009	8.1	17.9
7 10	20 16.46	-16 19.6	1.675	2.670	5.7	19.7	7 10	20 16.14	-23 6.3	1.990	2.988	4.6	17.7
7 20	20 7.93	-16 54.4	1.648	2.663	1.7	19.4	7 20	20 7.91	-24 18.2	1.952	2.967	1.5	17.4
7 30	19 59.04	-17 32.0	1.649	2.656	3.5	19.5	7 30	19 59.17	-25 27.0	1.943	2.945	3.9	17.5
8 9	19 50.87	-18 8.8	1.675	2.649	7.7	19.8	8 9	19 50.90	-26 28.0	1.962	2.924	7.6	17.7
8 19	19 44.33	-18 41.9	1.727	2.642	11.6	20.0	8 19	19 43.98	-27 18.4	2.005	2.903	11.1	17.9
8 29	19 40.13	-19 9.3	1.799	2.635	14.9	20.2	8 29	19 39.16	-27 56.9	2.071	2.881	14.2	18.1
513752	2012 <i>VX</i> ₃₁	7 22.0 298°63		1°9/22.8 18			181407	2006 <i>SQ</i> ₁₃₃	7 22.0 221°46		4°3/24.9 18		
6 20	20 29.16	-14 41.0	1.645	2.529	14.1	21.7	6 20	20 27.29	-4 33.6	2.678	3.506	11.0	21.7
6 30	20 24.21	-14 45.9	1.554	2.504	10.5	21.4	6 30	20 21.97	-4 31.5	2.589	3.496	8.7	21.5
7 10	20 16.95	-15 1.2	1.484	2.478	6.4	21.1	7 10	20 15.30	-4 41.4	2.525	3.486	6.4	21.3
7 20	20 8.05	-15 25.1	1.439	2.453	2.4	20.8	7 20	20 7.75	-5 3.2	2.486	3.475	4.6	21.2
7 30	19 58.52	-15 54.6	1.420	2.427	4.0	20.9	7 30	19 59.93	-5 35.5	2.476	3.464	4.6	21.2
8 9	19 49.59	-16 25.9	1.427	2.402	8.6	21.1	8 9	19 52.53	-6 16.0	2.494	3.452	6.5	21.3
8 19	19 42.37	-16 55.9	1.457	2.376	13.0	21.3	8 19	19 46.17	-7 1.7	2.539	3.439	9.0	21.4
8 29	19 37.75	-17 22.1	1.507	2.351	16.9	21.4	8 29	19 41.34	-7 49.6	2.607	3.427	11.3	21.6
57921	2002 <i>EY</i> ₁₅₄	7 22.0 16°67		2°1/21.0 18			93344	2000 <i>SY</i> ₂₄₅	7 22.0 260°48		8°3/17.5 18		
6 20	20 28.89	-22 34.3	1.407	2.312	14.7	18.7	6 20	20 37.73	-40 59.0	1.907	2.778	13.1	20.0
6 30	20 24.06	-23 20.0	1.352	2.316	10.6	18.4	6 30	20 30.56	-42 5.9	1.835	2.761	10.7	19.8
7 10	20 16.79	-24 10.2	1.319	2.320	6.0	18.2	7 10	20 20.58	-43 1.8	1.786	2.744	8.9	19.7
7 20	20 7.99	-24 59.0	1.310	2.324	2.1	18.0	7 20	20 8.68	-43 38.5	1.762	2.726	8.4	19.6
7 30	19 58.92	-25 40.4	1.326	2.330	5.0	18.2	7 30	19 56.25	-43 50.1	1.763	2.708	9.7	19.6
8 9	19 50.93	-26 10.5	1.366	2.336	9.5	18.4	8 9	19 44.85	-43 35.2	1.788	2.690	12.1	19.7
8 19	19 45.11	-26 27.7	1.429	2.343	13.6	18.7	8 19	19 35.77	-42 56.5	1.835	2.671	14.8	19.9
8 29	19 42.16	-26 32.5	1.511	2.350	17.1	19.0	8 29	19 29.90	-41 59.1	1.900	2.652	17.3	20.0
339089	2004 <i>RO</i> ₁₁₀	7 22.0 316°42		21°5/ 3.9 17			371638	2007 <i>BR</i> ₁₀	7 22.0 306°62		3°1/20.8 18		
6 20	20 27.09	+20 39.2	1.112	1.865	27.4	20.0	6 20	20 31.12	-25 9.0	1.358	2.264	15.1	20.5
6 30	20 23.35	+22 19.2	1.054	1.858	25.7	19.8	6 30	20 26.18	-25 45.5	1.277	2.240	11.1	20.2
7 10	20 16.72	+23 13.8	1.007	1.851	24.0	19.7	7 10	20 18.31	-26 25.1	1.217	2.216	6.6	19.9
7 20	20 8.02	+23 12.7	0.972	1.844	22.5	19.5	7 20	20 8.33	-27 1.3	1.180	2.192	3.1	19.6
7 30	19 58.64	+22 9.7	0.951	1.837	21.6	19.5	7 30	19 57.58	-27 27.9	1.167	2.169	6.0	19.7
8 9	19 50.21	+20 7.2	0.946	1.831	21.6	19.4	8 9	19 47.71	-27 40.4	1.178	2.146	10.9	19.9
8 19	19 44.16	+17 15.8	0.956	1.826	22.6	19.5	8 19	19 40.14	-27 38.0	1.211	2.123	15.7	20.1
8 29	19 41.55	+13 52.1	0.982	1.820	24.3	19.6	8 29	19 35.93	-27 22.0	1.261	2.101	19.8	20.3
91161	1998 <i>QN</i> ₇₄	7 22.0 334°46		13°0/ 1.5 18			358934	2008 <i>HJ</i> ₅₃	7 22.0 354°26		2°4/23.6 18		
6 20	20 23.82	+17 43.3	2.001	2.716	17.8	19.1	6 20	20 25.59	-11 2.4	2.017	2.887	12.5	20.8
6 30	20 19.92	+18 16.5	1.922	2.705	16.4	19.0	6 30	20 21.09	-11 29.3	1.945	2.885	9.4	20.6
7 10	20 14.32	+18 20.1	1.859	2.694	14.9	18.8	7 10	20 14.93	-12 8.5	1.896	2.884	5.9	20.4
7 20	20 7.58	+17 50.4	1.813	2.684	13.7	18.7	7 20	20 7.70	-12 57.6	1.873	2.883	2.8	20.2
7 30	20 0.49	+16 46.1	1.788	2.674	13.0	18.7	7 30	20 0.21	-13 53.2	1.877	2.882	3.5	20.2
8 9	19 53.95	+15 10.0	1.785	2.665	13.3	18.7	8 9	19 53.32	-14 51.1	1.907	2.881	6.9	20.4
8 19	19 48.75	+13 8.3	1.803	2.656	14.3	18.7	8 19	19 47.81	-15 47.4	1.963	2.881	10.3	20.6
8 29	19 45.56	+10 49.5	1.843	2.648	15.8	18.8	8 29	19 44.27	-16 39.1	2.042	2.881	13.3	20.8
468168	2014 <i>WX</i> ₄₇₃	7 22.0 127°54		1°8/21.1 16			102749	1999 <i>VY</i> ₁₁₇	7 22.0 261°51		7°2/25.7 18		
6 20	20 32.75	-21 6.7	1.503	2.398	14.6	21.7	6 20	20 28.19	-0 2.9	2.021	2.842	14.4	20.1
6 30	20 26.74	-22 8.8	1.446	2.404	10.5	21.5	6 30	20 23.04	+0 21.4	1.933	2.827	11.9	19.9
7 10	20 18.28	-23 17.3	1.412	2.411	5.9	21.2	7 10	20 16.09	+0 27.7	1.866	2.811	9.4	19.7
7 20	20 8.25	-24 25.5	1.403	2.417	1.9	21.0	7 20	20 7.91	+0 14.6	1.822	2.794	7.5	19.6
7 30	19 57.90	-25 26.6	1.420	2.423	4.8	21.2	7 30	19 59.32	-0 17.6	1.804	2.778	7.4	19.5
8 9	19 48.60	-26 15.7	1.462	2.428	9.3	21.5	8 9	19 51.23	-1 6.0	1.812	2.761	9.1	19.6
8 19	19 41.45	-26 50.6	1.528	2.434	13.4	21.7	8 19	19 44.48	-2 6.3	1.844	2.744	11.8	19.7
8 29	19 37.19	-27 11.6	1.614	2.439	16.9	22.0	8 29	19 39.76	-3 13.4	1.898	2.727	14.6	19.9
123680	2000 <i>YN</i> ₉₂	7 22.0 183°96		0°3/21.8 18			87340	2000 <i>QB</i> ₂₃	7 22.0 117°12		3°7/20.8 18		
6 20	20 27.77	-19 58.8	2.600	3.477	9.8	20.7	6 20	20 37.54	-30 14.5	1.794	2.678	13.1	18.4
6 30	20 22.34	-20 24.1	2.528	3.477	7.0	20.5	6 30	20 29.78	-30 23.8	1.738	2.688	9.6	18.2
7 10	20 15.49	-20 53.0	2.481	3.477	3.9	20.3	7 10	20 19.78	-30 27.4	1.707	2.698	6.0	18.0
7 20	20 7.76	-21 22.7	2.461	3.477	0.7	20.1	7 20	20 8.50	-30 20.9	1.701	2.708	3.7	17.9
7 30	19 59.84	-21 50.8	2.471	3.476	2.8	20.3	7 30	19 57.21	-30 1.8	1.723	2.717	5.5	18.0
8 9	19 52.46	-22 15.0	2.508	3.475	5.9	20.5	8 9	19 47.14	-29 30.1	1.771	2.726	8.9	18.2
8 19	19 46.25	-22 33.9	2.573	3.474	8.8	20.7	8 19	19 39.24	-28 48.1	1.844	2.734	12.3	18.4
8 29	19 41.74	-22 46.9	2.660	3.472	11.3	20.8	8 29	19 34.11	-27 59.0	1.938	2.743	15.2	18.7
23589	1995 <i>UR</i> ₆	7 22.0 25°53		2°5/23.1 18			445402	2010 <i>TE</i> ₂₃	7 22.0 314°06		0°5/22.3 15		
6 20													

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7 22.0

7 22.0

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
280064	2002 <i>CY</i> ₁₁₉		7 22.0 156°74	0°7/22.4	17		419536	2010 <i>LE</i> ₈₂		7 22.0 278°40	3°8/24.0	18	
6 20	20 32.07	-17 11.4	2.267	3.137	11.3	22.2	6 20	20 29.50	-8 27.1	1.468	2.340	16.2	21.0
6 30	20 25.50	-17 21.0	2.201	3.145	8.2	22.0	6 30	20 24.65	-8 59.5	1.383	2.322	12.4	20.7
7 10	20 17.29	-17 35.9	2.159	3.153	4.7	21.8	7 10	20 17.33	-9 52.9	1.318	2.304	8.2	20.4
7 20	20 8.10	-17 53.7	2.145	3.160	1.2	21.5	7 20	20 8.19	-11 5.3	1.277	2.285	4.4	20.1
7 30	19 58.76	-18 12.0	2.160	3.166	3.0	21.7	7 30	19 58.36	-12 31.8	1.262	2.266	5.0	20.1
8 9	19 50.13	-18 28.6	2.203	3.172	6.5	21.9	8 9	19 49.17	-14 4.8	1.272	2.247	9.3	20.3
8 19	19 42.94	-18 42.2	2.273	3.177	9.7	22.1	8 19	19 41.84	-15 37.1	1.305	2.228	14.0	20.5
8 29	19 37.73	-18 52.0	2.366	3.181	12.5	22.3	8 29	19 37.34	-17 2.4	1.359	2.209	18.1	20.7
352630	2008 <i>FX</i> ₈₉		7 22.0 165°67	2°4/20.6	18		376863	2001 <i>TU</i> ₉₀		7 22.0 298°91	3°2/23.2	18	
6 20	20 30.68	-27 16.0	2.517	3.398	9.9	22.2	6 20	20 30.28	-13 1.2	1.521	2.403	15.2	20.4
6 30	20 24.49	-27 45.1	2.451	3.402	7.2	22.0	6 30	20 25.02	-12 43.8	1.443	2.390	11.4	20.1
7 10	20 16.72	-28 12.7	2.411	3.405	4.3	21.9	7 10	20 17.40	-12 37.4	1.387	2.377	7.2	19.8
7 20	20 8.01	-28 35.6	2.399	3.408	2.4	21.7	7 20	20 8.19	-12 41.1	1.355	2.365	3.6	19.6
7 30	19 59.13	-28 50.7	2.415	3.410	4.0	21.8	7 30	19 58.51	-12 53.0	1.347	2.352	4.7	19.6
8 9	19 50.92	-28 56.8	2.459	3.412	6.8	22.0	8 9	19 49.63	-13 10.3	1.365	2.340	9.0	19.8
8 19	19 44.08	-28 53.7	2.529	3.414	9.6	22.2	8 19	19 42.65	-13 30.0	1.406	2.328	13.3	20.0
8 29	19 39.15	-28 42.3	2.622	3.416	12.0	22.4	8 29	19 38.40	-13 49.4	1.467	2.316	17.1	20.3
482781	2013 <i>HO</i> ₈₅		7 22.0 215°85	0°5/22.3	18		470741	2008 <i>UP</i> ₁₁₃		7 22.0 327°98	6°2/19.5	16	
6 20	20 28.10	-17 50.5	2.621	3.493	9.9	22.7	6 20	20 28.63	-30 35.4	1.208	2.123	15.8	20.6
6 30	20 22.59	-18 2.5	2.541	3.487	7.2	22.5	6 30	20 24.79	-31 27.2	1.130	2.095	12.0	20.3
7 10	20 15.66	-18 19.0	2.486	3.481	4.1	22.3	7 10	20 17.73	-32 17.2	1.072	2.066	8.1	20.0
7 20	20 7.83	-18 38.0	2.459	3.475	0.9	22.0	7 20	20 8.29	-32 56.4	1.035	2.039	6.2	19.8
7 30	19 59.79	-18 57.2	2.461	3.468	2.6	22.1	7 30	19 57.99	-33 16.7	1.021	2.014	8.6	19.9
8 9	19 52.25	-19 14.9	2.492	3.461	5.8	22.3	8 9	19 48.70	-33 13.7	1.029	1.989	13.1	20.0
8 19	19 45.86	-19 29.6	2.549	3.453	8.8	22.5	8 19	19 42.04	-32 47.7	1.055	1.966	17.7	20.2
8 29	19 41.14	-19 40.4	2.630	3.446	11.3	22.7	8 29	19 39.15	-32 2.5	1.099	1.944	21.8	20.4
307579	2003 <i>GD</i> ₉		7 22.0 88°56	4°4/20.2	17		22781	1999 <i>GN</i> ₄		7 22.0 230°92	1°9/21.1	18	
6 20	20 35.49	-27 13.4	1.296	2.199	15.9	20.2	6 20	20 33.06	-21 49.6	1.513	2.408	14.5	18.6
6 30	20 29.01	-28 13.3	1.250	2.210	11.5	20.0	6 30	20 27.15	-22 41.5	1.443	2.402	10.5	18.4
7 10	20 19.65	-29 12.1	1.225	2.221	7.1	19.8	7 10	20 18.66	-23 39.5	1.396	2.395	5.9	18.1
7 20	20 8.52	-30 1.7	1.224	2.232	4.4	19.7	7 20	20 8.41	-24 37.5	1.374	2.388	2.0	17.8
7 30	19 57.21	-30 35.2	1.248	2.243	6.8	19.8	7 30	19 57.67	-25 29.1	1.378	2.381	4.9	18.0
8 9	19 47.33	-30 49.8	1.295	2.254	11.0	20.1	8 9	19 47.85	-26 9.3	1.407	2.373	9.6	18.2
8 19	19 40.13	-30 46.6	1.364	2.265	15.1	20.4	8 19	19 40.15	-26 36.1	1.459	2.366	13.9	18.5
8 29	19 36.31	-30 28.7	1.452	2.275	18.5	20.6	8 29	19 35.45	-26 49.8	1.531	2.358	17.6	18.7
374293	2005 <i>SR</i> ₁₅		7 22.0 348°60	0°4/22.2	18		323372	2003 <i>WL</i> ₁₀₉		7 22.0 183°29	2°2/23.4	18	
6 20	20 24.63	-18 22.0	2.330	3.214	10.5	20.3	6 20	20 26.73	-12 8.6	2.812	3.669	9.8	21.1
6 30	20 20.25	-18 30.9	2.255	3.207	7.6	20.1	6 30	20 21.47	-12 0.3	2.736	3.669	7.3	20.9
7 10	20 14.40	-18 44.7	2.204	3.201	4.3	19.9	7 10	20 14.99	-11 58.7	2.685	3.669	4.7	20.8
7 20	20 7.62	-19 1.1	2.180	3.195	0.9	19.7	7 20	20 7.75	-12 3.1	2.662	3.669	2.5	20.6
7 30	20 0.63	-19 18.0	2.183	3.190	2.8	19.8	7 30	20 0.35	-12 12.3	2.667	3.669	3.0	20.7
8 9	19 54.20	-19 33.3	2.213	3.185	6.2	20.0	8 9	19 53.44	-12 24.6	2.700	3.668	5.5	20.8
8 19	19 49.00	-19 45.5	2.269	3.181	9.3	20.2	8 19	19 47.55	-12 38.6	2.761	3.667	8.1	21.0
8 29	19 45.54	-19 53.6	2.347	3.178	12.1	20.4	8 29	19 43.15	-12 52.6	2.845	3.666	10.4	21.2
222446	2001 <i>QN</i> ₁₆₀		7 22.0 301°09	0°3/21.9	18		294906	2008 <i>DH</i> ₂₇		7 22.0 34°06	0°7/22.3	16	
6 20	20 30.49	-19 45.6	1.452	2.350	14.8	21.1	6 20	20 28.93	-18 11.3	1.624	2.517	13.8	19.3
6 30	20 25.45	-20 2.3	1.369	2.328	10.8	20.8	6 30	20 23.60	-18 13.3	1.579	2.535	9.9	19.2
7 10	20 17.79	-20 26.1	1.307	2.307	6.2	20.5	7 10	20 16.33	-18 21.5	1.557	2.555	5.6	19.0
7 20	20 8.25	-20 53.2	1.269	2.285	1.1	20.1	7 20	20 7.98	-18 33.1	1.559	2.575	1.2	18.7
7 30	19 58.06	-21 18.9	1.257	2.264	4.3	20.3	7 30	19 59.60	-18 45.4	1.588	2.595	3.5	18.9
8 9	19 48.64	-21 39.4	1.268	2.243	9.5	20.5	8 9	19 52.26	-18 55.8	1.642	2.617	7.7	19.2
8 19	19 41.28	-21 52.4	1.302	2.222	14.3	20.7	8 19	19 46.77	-19 2.8	1.720	2.638	11.4	19.5
8 29	19 36.92	-21 57.3	1.356	2.201	18.4	20.9	8 29	19 43.68	-19 5.6	1.819	2.661	14.6	19.7
243528	2010 <i>DV</i> ₄₆		7 22.0 65°87	3°7/24.1	17		352217	2007 <i>TJ</i> ₂₄		7 22.0 356°38	6°5/25.0	16	
6 20	20 28.77	-9 1.7	1.724	2.591	14.4	20.5	6 20	20 20.33	-6 30.2	1.067	1.965	18.9	19.6
6 30	20 23.43	-9 11.2	1.671	2.606	10.9	20.3	6 30	20 18.32	-6 18.1	1.007	1.956	14.9	19.3
7 10	20 16.23	-9 35.2	1.639	2.621	7.2	20.1	7 10	20 13.80	-6 30.7	0.965	1.949	10.6	19.0
7 20	20 7.94	-10 11.8	1.632	2.637	4.1	19.9	7 20	20 7.60	-7 8.5	0.942	1.945	7.1	18.8
7 30	19 59.51	-10 57.6	1.651	2.652	4.5	20.0	7 30	20 0.97	-8 7.9	0.941	1.942	7.1	18.8
8 9	19 51.96	-11 48.1	1.696	2.668	7.8	20.2	8 9	19 55.35	-9 21.9	0.960	1.942	10.7	19.0
8 19	19 46.09	-12 39.3	1.766	2.684	11.2	20.5	8 19	19 51.91	-10 41.6	1.000	1.944	15.0	19.3
8 29	19 42.48	-13 27.5	1.857	2.699	14.3	20.7	8 29	19 51.49	-11 59.0	1.057	1.948	19.1	19.5
380853	2006 <i>BT</i> ₁₀₁		7 22.0 176°20	1°2/22.6	17		408666	2014 <i>MT</i> ₂₈		7 22.0 357°58	1°7/20.8	18	
6 20	20 31.45	-15 57.9	2.182	3.052	11.7	22.2	6 20	20 25.86	-19 19.3	1.703	2.600	13.0	19.4
6 30	20 25.15	-16 4.9	2.110	3.054	8.5	22.0	6 30	20 21.71	-20 53.7	1.637	2.597	9.3	19.2
7 10	20 17.16	-16 18.4	2.063	3.056	5.0	21.8	7 10	20 15.49	-22 38.1	1.595	2.595	5.2	18.9
7 20	20 8.11	-16 36.1	2.043	3.057	1.6	21.6	7 20	20 7.88	-24 25.5	1.579	2.593	1.7	18.7
7 30	19 58.84	-16 55.8	2.052	3.058	3.1	21.7	7 30	19 59.85	-26 8.0	1.590	2.593	4.5	18.9
8 9	19 50.26	-17 15.0	2.088	3.058	6.7	21.9	8 9	19 52.53	-27 38.6	1.627	2.593	8.7	19.1
8 19	19 43.13	-17 32.0	2.151	3.057	10.1	22.1	8 19	19 46.88	-28 53.2	1.689	2.594	12.5	19.3
8 29	19 38.03	-17 45.7	2.236	3.056	12.9	22.3	8 29	19 43.66	-29 50.3	1.772	2.595	15.7	19.6
444466	2006 <i>GL</i> ₃₁		7 22.0 41°01	21°1/ 2.5	17		368661	2005 <i>GO</i> _{31</}					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
132537	2002 <i>JE</i> ₇₁		7 22.0	2°55'	9°9'/27.7	18	297557	2001 <i>QV</i> ₃₂₉		7 22.0	346°99'	2°1'/22.9	18
6 20	20 25.05	+ 3 34.3	1.449	2.280	18.5	18.9	6 20	20 28.90	-14 28.8	1.855	2.733	13.0	20.0
6 30	20 21.18	+ 4 1.7	1.385	2.279	15.7	18.8	6 30	20 23.59	-14 22.4	1.785	2.731	9.7	19.8
7 10	20 15.20	+ 4 1.2	1.340	2.279	12.8	18.6	7 10	20 16.42	-14 24.4	1.738	2.729	5.9	19.5
7 20	20 7.84	+ 3 30.6	1.314	2.279	10.6	18.5	7 20	20 8.06	-14 33.4	1.716	2.728	2.4	19.3
7 30	20 0.14	+ 2 30.9	1.311	2.281	10.0	18.4	7 30	19 59.45	-14 47.0	1.721	2.727	3.7	19.4
8 9	19 53.27	+ 1 7.8	1.331	2.283	11.5	18.5	8 9	19 51.60	-15 2.9	1.753	2.726	7.4	19.6
8 19	19 48.19	- 0 30.8	1.372	2.286	14.1	18.7	8 19	19 45.33	-15 18.9	1.809	2.725	11.1	19.9
8 29	19 45.61	- 2 15.8	1.434	2.290	17.0	18.9	8 29	19 41.30	-15 33.1	1.886	2.724	14.3	20.1
520419	2014 <i>JW</i> ₈₉		7 22.0	266°13'	0°5'/21.7	18	59659	1999 <i>JM</i> ₉₅		7 22.0	311°92'	0°9'/22.5	18
6 20	20 27.49	-18 53.3	2.264	3.146	10.9	21.2	6 20	20 28.43	-15 21.1	1.557	2.447	14.5	18.5
6 30	20 22.46	-19 43.2	2.184	3.136	7.8	21.0	6 30	20 23.68	-16 1.5	1.484	2.438	10.6	18.3
7 10	20 15.75	-20 39.7	2.128	3.125	4.4	20.8	7 10	20 16.68	-16 54.4	1.433	2.430	6.2	18.0
7 20	20 7.93	-21 38.9	2.100	3.115	0.8	20.5	7 20	20 8.13	-17 55.6	1.407	2.422	1.5	17.7
7 30	19 59.76	-22 36.8	2.099	3.105	3.2	20.7	7 30	19 59.12	-18 59.6	1.407	2.414	3.8	17.8
8 9	19 52.10	-23 29.5	2.127	3.094	6.8	20.9	8 9	19 50.90	-20 0.7	1.432	2.407	8.6	18.1
8 19	19 45.73	-24 14.4	2.181	3.084	10.1	21.1	8 19	19 44.51	-20 54.7	1.480	2.400	12.9	18.3
8 29	19 41.28	-24 50.1	2.257	3.073	13.0	21.3	8 29	19 40.76	-21 38.8	1.549	2.393	16.6	18.5
282737	2006 <i>DO</i> ₂₀₄		7 22.0	120°69'	12°4'/31.1	18	441417	2008 <i>GL</i> ₄₇		7 22.0	8°18'	3°0'/20.0	18
6 20	20 28.39	+15 58.8	2.054	2.771	17.3	20.9	6 20	20 27.86	-25 54.4	2.036	2.930	11.4	20.4
6 30	20 23.07	+16 51.3	1.992	2.780	15.7	20.8	6 30	20 22.88	-26 59.5	1.974	2.930	8.2	20.2
7 10	20 16.05	+17 16.5	1.948	2.788	14.1	20.7	7 10	20 16.04	-28 6.0	1.936	2.931	5.0	20.0
7 20	20 7.97	+17 11.0	1.923	2.796	12.9	20.6	7 20	20 8.00	-29 8.4	1.924	2.932	3.0	19.9
7 30	19 59.67	+16 34.3	1.920	2.803	12.4	20.6	7 30	19 59.67	-30 1.6	1.939	2.934	4.9	20.0
8 9	19 52.03	+15 29.1	1.938	2.811	12.7	20.6	8 9	19 52.05	-30 42.3	1.981	2.935	8.2	20.2
8 19	19 45.83	+14 1.1	1.979	2.818	13.8	20.7	8 19	19 45.97	-31 9.3	2.048	2.937	11.3	20.4
8 29	19 41.66	+12 17.8	2.040	2.825	15.2	20.8	8 29	19 42.10	-31 22.9	2.135	2.939	14.0	20.6
294640	2008 <i>AT</i> ₅₄		7 22.0	101°13'	0°2'/21.9	17	134670	1999 <i>VF</i> ₁₈₉		7 22.0	326°65'	1°7'/22.7	17
6 20	20 31.63	-17 33.3	1.488	2.379	14.9	20.9	6 20	20 25.94	-15 32.9	1.092	2.003	17.5	19.5
6 30	20 25.92	-18 23.3	1.431	2.387	10.7	20.6	6 30	20 22.72	-15 43.0	1.015	1.979	13.0	19.2
7 10	20 17.86	-19 23.0	1.397	2.395	6.0	20.4	7 10	20 16.53	-16 7.8	0.957	1.956	7.8	18.8
7 20	20 8.30	-20 27.0	1.387	2.402	1.0	20.1	7 20	20 8.15	-16 44.8	0.920	1.934	2.4	18.4
7 30	19 58.45	-21 28.9	1.403	2.410	4.1	20.3	7 30	19 58.95	-17 28.9	0.904	1.913	4.9	18.5
8 9	19 49.63	-22 23.5	1.445	2.417	8.8	20.6	8 9	19 50.63	-18 13.9	0.911	1.894	10.8	18.8
8 19	19 42.87	-23 7.6	1.510	2.424	13.0	20.9	8 19	19 44.72	-18 54.6	0.937	1.876	16.4	19.0
8 29	19 38.92	-23 39.9	1.596	2.431	16.6	21.1	8 29	19 42.33	-19 27.1	0.980	1.859	21.2	19.2
249756	2000 <i>SD</i> ₃₆₂		7 22.0	256°97'	0°8'/21.7	18	439223	2012 <i>TG</i> ₄₁		7 22.0	163°33'	1°7'/22.8	18
6 20	20 32.16	-19 23.1	1.484	2.378	14.8	20.5	6 20	20 30.79	-15 12.8	1.978	2.852	12.5	21.6
6 30	20 26.58	-20 7.2	1.409	2.367	10.7	20.2	6 30	20 24.83	-15 10.7	1.909	2.854	9.2	21.4
7 10	20 18.40	-21 0.3	1.357	2.356	6.1	19.9	7 10	20 17.06	-15 15.9	1.864	2.856	5.5	21.2
7 20	20 8.42	-21 57.1	1.328	2.344	1.2	19.5	7 20	20 8.17	-15 26.7	1.845	2.858	2.0	21.0
7 30	19 57.87	-22 51.2	1.326	2.332	4.4	19.7	7 30	19 59.07	-15 40.9	1.854	2.860	3.4	21.1
8 9	19 48.16	-23 37.4	1.349	2.320	9.5	20.0	8 9	19 50.71	-15 56.0	1.890	2.861	7.1	21.3
8 19	19 40.53	-24 12.6	1.395	2.308	14.0	20.2	8 19	19 43.92	-16 10.3	1.951	2.862	10.7	21.5
8 29	19 35.88	-24 35.9	1.461	2.295	17.9	20.5	8 29	19 39.30	-16 22.2	2.034	2.863	13.7	21.7
350376	2012 <i>UP</i> ₁₅₄		7 22.0	320°05'	1°3'/21.5	18	436564	2011 <i>HJ</i> ₃₃		7 22.0	39°65'	5°0'/24.7	17
6 20	20 28.27	-21 35.9	1.356	2.262	15.1	20.6	6 20	20 28.07	- 6 32.2	1.572	2.436	15.7	21.3
6 30	20 24.12	-21 59.9	1.268	2.232	11.0	20.2	6 30	20 23.18	- 6 36.0	1.510	2.441	12.2	21.1
7 10	20 17.21	-22 30.5	1.201	2.201	6.3	19.9	7 10	20 16.26	- 6 58.2	1.470	2.447	8.5	20.9
7 20	20 8.24	-23 3.0	1.156	2.172	1.6	19.5	7 20	20 8.05	- 7 37.5	1.453	2.453	5.5	20.7
7 30	19 58.46	-23 32.0	1.136	2.143	4.9	19.6	7 30	19 59.58	- 8 30.6	1.461	2.459	5.6	20.7
8 9	19 49.40	-23 53.0	1.140	2.115	10.3	19.9	8 9	19 51.97	- 9 32.4	1.495	2.466	8.7	20.9
8 19	19 42.46	-24 3.5	1.165	2.087	15.3	20.1	8 19	19 46.14	-10 37.2	1.552	2.473	12.3	21.2
8 29	19 38.72	-24 3.1	1.208	2.061	19.7	20.3	8 29	19 42.74	-11 40.1	1.630	2.480	15.6	21.4
192916	1999 <i>XR</i> ₂₅₆		7 22.0	203°27'	6°1'/18.0	18	459453	2012 <i>XH</i> ₂₁		7 22.0	327°36'	16°7'/25.1	17
6 20	20 34.41	-36 59.4	2.326	3.199	10.9	20.5	6 20	20 34.62	+ 7 2.5	1.150	1.969	23.1	20.6
6 30	20 27.62	-38 7.8	2.261	3.194	8.6	20.4	6 30	20 28.63	+ 9 39.0	1.095	1.966	20.6	20.4
7 10	20 18.72	-39 9.2	2.221	3.190	6.7	20.3	7 10	20 19.67	+11 46.9	1.056	1.964	18.3	20.2
7 20	20 8.45	-39 57.5	2.208	3.184	6.1	20.2	7 20	20 8.67	+13 15.8	1.035	1.962	16.9	20.1
7 30	19 57.83	-40 28.1	2.222	3.179	7.3	20.3	7 30	19 57.10	+13 58.8	1.034	1.960	16.8	20.1
8 9	19 47.97	-40 39.2	2.262	3.172	9.6	20.4	8 9	19 46.63	+13 56.4	1.052	1.958	18.2	20.2
8 19	19 39.84	-40 31.9	2.326	3.165	11.9	20.6	8 19	19 38.63	+13 15.3	1.086	1.956	20.4	20.3
8 29	19 34.13	-40 9.2	2.410	3.158	14.1	20.7	8 29	19 34.07	+12 6.4	1.136	1.955	22.9	20.5
222658	2001 <i>XJ</i> ₁₉₄		7 22.0	275°39'	0°3'/22.2	18	401617	2013 <i>GA</i> ₅₂		7 22.0	270°93'	5°6'/17.7	18
6 20	20 30.80	-17 49.2	1.769	2.653	13.3	20.4	6 20	20 29.96	-35 15.8	2.407	3.288	10.3	20.5
6 30	20 25.33	-18 15.6	1.679	2.632	9.7	20.2	6 30	20 24.40	-36 34.7	2.340	3.280	8.0	20.3
7 10	20 17.61	-18 50.5	1.612	2.609	5.6	19.9	7 10	20 16.93	-37 48.7	2.298	3.272	6.1	20.2
7 20	20 8.30	-19 30.3	1.571	2.587	1.0	19.5	7 20	20 8.18	-38 52.2	2.284	3.264	5.6	20.1
7 30	19 58.39	-20 10.8	1.557	2.564	3.7	19.7	7 30	19 59.04	-39 40.1	2.296	3.256	6.9	20.2
8 9	19 49.08	-20 48.0	1.569	2.540	8.3	19.9	8 9	19 50.50	-40 10.1	2.334	3.248	9.1	20.3
8 19	19 41.44	-21 19.0	1.605	2.517	12.5	20.1	8 19	19 43.46	-40 22.2	2.396	3.240	11.5	20.5
8 29	19 36.32	-21 42.2	1.662	2.493	16.2	20.3	8 29	19 38.60	-40 18.3	2.479	3.232	13.6	20.6

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
118373	1999 <i>GD</i> ₄₁		7 22.0 72°36'	0°1'/22.1	17		241235	2007 <i>TK</i> ₁₈₈		7 22.1 25°36'	2°3'/23.2	17	
6 20	20 31.49	-17 27.9	1.545	2.435	14.6	19.8	6 20	20 28.80	-12 59.7	1.844	2.719	13.3	20.6
6 30	20 25.61	-18 7.9	1.499	2.454	10.5	19.6	6 30	20 23.55	-13 5.5	1.776	2.720	9.9	20.4
7 10	20 17.57	-18 56.2	1.475	2.473	5.9	19.4	7 10	20 16.43	-13 21.6	1.731	2.721	6.1	20.1
7 20	20 8.27	-19 47.9	1.476	2.492	1.0	19.1	7 20	20 8.14	-13 46.3	1.711	2.722	2.7	19.9
7 30	19 58.86	-20 37.7	1.503	2.510	3.8	19.3	7 30	19 59.60	-14 16.6	1.718	2.723	3.7	20.0
8 9	19 50.54	-21 21.5	1.557	2.529	8.3	19.7	8 9	19 51.80	-14 49.2	1.751	2.724	7.4	20.2
8 19	19 44.23	-21 56.5	1.634	2.548	12.2	19.9	8 19	19 45.58	-15 21.3	1.808	2.725	11.1	20.5
8 29	19 40.54	-22 22.0	1.732	2.567	15.5	20.2	8 29	19 41.57	-15 50.3	1.888	2.726	14.3	20.7
478705	2012 <i>UP</i> ₃₆		7 22.0 315°97'	5°2'/19.4	18		38882	2000 <i>SG</i> ₁₂₃		7 22.1 82°27'	1°4'/22.7	17	
6 20	20 30.00	-29 28.8	1.497	2.401	14.1	20.6	6 20	20 31.71	-14 23.5	1.358	2.248	16.2	18.6
6 30	20 25.24	-30 34.5	1.422	2.381	10.5	20.3	6 30	20 26.10	-14 59.0	1.304	2.258	11.8	18.4
7 10	20 17.77	-31 40.0	1.369	2.362	7.0	20.1	7 10	20 18.03	-15 47.8	1.272	2.267	6.9	18.1
7 20	20 8.37	-32 37.5	1.339	2.343	5.2	19.9	7 20	20 8.42	-16 45.5	1.263	2.277	2.1	17.8
7 30	19 58.32	-33 19.6	1.335	2.324	7.4	20.0	7 30	19 58.57	-17 45.9	1.280	2.287	4.1	18.0
8 9	19 49.14	-33 42.0	1.354	2.306	11.3	20.2	8 9	19 49.83	-18 43.2	1.321	2.297	9.0	18.3
8 19	19 42.14	-33 44.0	1.395	2.289	15.3	20.4	8 19	19 43.29	-19 33.1	1.385	2.307	13.4	18.6
8 29	19 38.29	-33 28.2	1.454	2.272	18.7	20.6	8 29	19 39.67	-20 13.4	1.470	2.317	17.1	18.9
260000	2004 <i>FB</i> ₁₁₂		7 22.0 170°73'	4°0'/20.3	17		94865	2001 <i>XR</i> ₂₁₇		7 22.1 152°25'	1°1'/21.5	18	
6 20	20 34.97	-28 40.9	1.679	2.571	13.5	20.7	6 20	20 31.56	-21 11.2	1.827	2.715	12.8	20.1
6 30	20 28.29	-29 21.4	1.619	2.573	9.9	20.4	6 30	20 25.63	-21 50.1	1.764	2.718	9.2	19.9
7 10	20 19.20	-29 59.4	1.581	2.574	6.2	20.2	7 10	20 17.65	-22 33.5	1.724	2.722	5.1	19.7
7 20	20 8.58	-30 28.9	1.568	2.575	4.0	20.1	7 20	20 8.37	-23 16.8	1.710	2.725	1.3	19.4
7 30	19 57.69	-30 45.1	1.583	2.576	5.9	20.2	7 30	19 58.83	-23 55.6	1.724	2.728	3.9	19.6
8 9	19 47.87	-30 46.1	1.622	2.577	9.6	20.4	8 9	19 50.14	-24 26.5	1.764	2.731	8.0	19.9
8 19	19 40.20	-30 32.7	1.685	2.577	13.2	20.7	8 19	19 43.20	-24 47.9	1.828	2.733	11.6	20.1
8 29	19 35.39	-30 7.6	1.769	2.577	16.3	20.9	8 29	19 38.68	-24 59.8	1.915	2.735	14.8	20.3
119838	2002 <i>CA</i> ₁₆		7 22.0 125°59'	0°3'/22.2	18 R		441821	2009 <i>OW</i> ₁₂		7 22.1 276°34'	0°2'/22.2	17	
6 20	20 28.30	-18 7.1	2.462	3.337	10.3	20.8	6 20	20 32.28	-20 27.3	2.559	3.430	10.1	21.2
6 30	20 22.76	-18 27.3	2.398	3.346	7.4	20.7	6 30	20 25.77	-20 8.5	2.459	3.405	7.4	21.0
7 10	20 15.80	-18 52.2	2.359	3.355	4.2	20.5	7 10	20 17.62	-19 50.6	2.385	3.379	4.2	20.7
7 20	20 7.97	-19 19.3	2.348	3.363	0.8	20.2	7 20	20 8.38	-19 32.3	2.338	3.354	0.8	20.4
7 30	20 0.01	-19 46.1	2.365	3.372	2.7	20.4	7 30	19 58.80	-19 12.5	2.321	3.327	2.8	20.5
8 9	19 52.65	-20 10.2	2.410	3.380	6.0	20.6	8 9	19 49.71	-18 50.6	2.333	3.301	6.3	20.7
8 19	19 46.55	-20 30.2	2.482	3.387	8.9	20.8	8 19	19 41.86	-18 26.5	2.373	3.274	9.5	20.9
8 29	19 42.19	-20 45.2	2.577	3.395	11.5	21.0	8 29	19 35.85	-18 0.5	2.436	3.247	12.3	21.0
288069	2003 <i>UQ</i> ₃₅₈		7 22.1 225°50'	0°9'/21.6	18		285927	2001 <i>QN</i> ₂₃₃		7 22.1 323°38'	3°7'/23.6	17	
6 20	20 30.51	-21 11.4	1.936	2.823	12.2	21.2	6 20	20 26.57	-11 23.9	1.264	2.158	16.8	20.3
6 30	20 24.79	-21 37.6	1.865	2.820	8.8	21.0	6 30	20 22.83	-11 25.9	1.186	2.138	12.8	20.0
7 10	20 17.13	-22 7.7	1.819	2.817	4.9	20.8	7 10	20 16.47	-11 45.0	1.126	2.118	8.3	19.7
7 20	20 8.23	-22 38.1	1.798	2.813	1.1	20.5	7 20	20 8.22	-12 20.2	1.089	2.099	4.2	19.4
7 30	19 59.03	-23 5.0	1.805	2.810	3.6	20.7	7 30	19 59.30	-13 7.8	1.075	2.081	5.2	19.4
8 9	19 50.59	-23 25.7	1.838	2.806	7.6	20.9	8 9	19 51.16	-14 2.4	1.083	2.063	10.0	19.6
8 19	19 43.77	-23 38.8	1.896	2.803	11.2	21.1	8 19	19 45.10	-14 58.0	1.114	2.047	14.9	19.8
8 29	19 39.25	-23 44.2	1.976	2.799	14.3	21.3	8 29	19 42.12	-15 49.5	1.162	2.032	19.2	20.0
127274	2002 <i>JE</i> ₆₁		7 22.1 189°63'	5°9'/26.5	18		152125	2004 <i>SR</i> ₃₃		7 22.1 345°02'	2°0'/23.1	18	
6 20	20 26.20	+ 2 36.9	2.987	3.774	11.0	20.5	6 20	20 23.58	-13 43.7	1.488	2.384	14.7	18.9
6 30	20 21.09	+ 2 54.0	2.906	3.772	9.2	20.4	6 30	20 20.28	-14 4.1	1.413	2.368	10.9	18.6
7 10	20 14.82	+ 2 57.2	2.848	3.771	7.5	20.3	7 10	20 14.83	-14 38.0	1.359	2.354	6.6	18.3
7 20	20 7.82	+ 2 45.9	2.815	3.769	6.2	20.2	7 20	20 7.91	-15 23.0	1.328	2.342	2.5	18.0
7 30	20 0.64	+ 2 20.5	2.809	3.766	6.0	20.2	7 30	20 0.55	-16 14.7	1.322	2.330	4.0	18.1
8 9	19 53.85	+ 1 43.1	2.831	3.763	7.0	20.3	8 9	19 53.92	-17 7.9	1.340	2.320	8.5	18.3
8 19	19 47.99	+ 0 56.4	2.878	3.759	8.7	20.4	8 19	19 49.05	-17 58.0	1.381	2.311	12.8	18.6
8 29	19 43.99	+ 0 3.7	2.950	3.756	10.5	20.5	8 29	19 46.74	-18 41.3	1.442	2.304	16.6	18.8
149582	2004 <i>BX</i> ₁₀₄		7 22.1 144°87'	0°7'/22.4	17		70085	1999 <i>JD</i> ₆₈		7 22.1 19°39'	3°8'/20.3	18 R	
6 20	20 32.80	-16 37.7	1.798	2.676	13.4	21.5	6 20	20 30.62	-24 7.4	1.145	2.058	16.7	18.2
6 30	20 26.42	-17 3.9	1.736	2.685	9.7	21.3	6 30	20 25.90	-25 24.8	1.094	2.061	12.0	17.9
7 10	20 18.03	-17 37.9	1.698	2.693	5.6	21.1	7 10	20 18.19	-26 47.3	1.065	2.065	7.1	17.6
7 20	20 8.38	-18 16.4	1.686	2.701	1.3	20.8	7 20	20 8.50	-28 5.5	1.057	2.069	3.8	17.5
7 30	19 58.52	-18 55.3	1.701	2.708	3.5	21.0	7 30	19 58.41	-29 9.9	1.074	2.074	6.8	17.6
8 9	19 49.53	-19 30.9	1.744	2.715	7.7	21.2	8 9	19 49.65	-29 54.7	1.113	2.079	11.6	17.9
8 19	19 42.33	-20 1.0	1.811	2.721	11.5	21.5	8 19	19 43.54	-30 18.8	1.172	2.085	16.1	18.2
8 29	19 37.55	-20 24.2	1.900	2.727	14.7	21.7	8 29	19 40.94	-30 23.9	1.249	2.091	19.9	18.5
211389	2002 <i>UL</i> ₃₁		7 22.1 283°62'	3°3'/20.6	18		64575	2001 <i>WM</i> ₄₀		7 22.1 269°44'	6°0'/24.6	18	
6 20	20 32.61	-28 30.8	1.932	2.821	12.1	20.4	6 20	20 29.74	- 5 23.4	1.743	2.594	15.0	18.8
6 30	20 26.51	-28 54.3	1.850	2.803	8.9	20.2	6 30	20 24.42	- 4 55.5	1.662	2.582	12.0	18.6
7 10	20 18.21	-29 15.5	1.791	2.785	5.5	19.9	7 10	20 17.06	- 4 43.4	1.602	2.570	8.8	18.4
7 20	20 8.43	-29 29.7	1.759	2.767	3.3	19.8	7 20	20 8.30	- 4 48.1	1.565	2.557	6.3	18.2
7 30	19 58.24	-29 33.3	1.753	2.748	5.2	19.8	7 30	19 59.10	- 5 8.7	1.555	2.545	6.4	18.2
8 9	19 48.82	-29 24.5	1.774	2.730	8.8	20.0	8 9	19 50.55	- 5 42.4	1.569	2.532	9.1	18.3
8 19	19 41.16	-29 3.6	1.819	2.712	12.3	20.2	8 19	19 43.61	- 6 25.1	1.608	2.520	12.5	18.5
8 29	19 36.05	-28 32.7	1.885	2.694	15.4	20.4	8 29	19 39.02	- 7 12.2	1.667	2.507	15.8	18.7
508239	2015 <i>HF</i> ₃₃		7 22.1 103°68'	4°0'/24.3	17		252152						

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
438365	2006 <i>SJ</i> ₃₁₇		7 22.1 83°80	0°8/21.6	18		61834	2000 <i>QS</i> ₁₉₆		7 22.1 303°98	1°3/21.5	18	
6 20	20 29.21	-20 50.8	2.019	2.906	11.8	21.5	6 20	20 30.50	-21 44.6	1.500	2.399	14.4	19.6
6 30	20 23.77	-21 22.1	1.955	2.909	8.4	21.3	6 30	20 25.56	-22 11.4	1.414	2.374	10.5	19.3
7 10	20 16.54	-21 57.5	1.915	2.913	4.7	21.0	7 10	20 18.00	-22 43.8	1.350	2.350	6.0	19.0
7 20	20 8.19	-22 33.2	1.901	2.916	1.0	20.8	7 20	20 8.57	-23 17.4	1.311	2.326	1.6	18.6
7 30	19 59.63	-23 5.8	1.914	2.919	3.5	21.0	7 30	19 58.44	-23 46.9	1.296	2.302	4.6	18.8
8 9	19 51.79	-23 32.2	1.955	2.923	7.2	21.2	8 9	19 49.04	-24 8.2	1.306	2.278	9.6	19.0
8 19	19 45.50	-23 51.0	2.020	2.926	10.6	21.4	8 19	19 41.65	-24 19.4	1.339	2.254	14.3	19.2
8 29	19 41.36	-24 1.9	2.108	2.930	13.6	21.6	8 29	19 37.22	-24 20.2	1.391	2.231	18.3	19.4
67166	2000 <i>AZ</i> ₂₃₂		7 22.1 199°44	1°0/21.4	18		473160	2015 <i>KE</i> ₂₈		7 22.1 328°39	1°6/22.7	18	
6 20	20 27.22	-21 0.2	2.548	3.428	9.8	18.6	6 20	20 30.07	-16 22.3	1.597	2.485	14.3	21.0
6 30	20 22.11	-21 45.9	2.475	3.427	7.0	18.5	6 30	20 24.80	-16 14.4	1.526	2.479	10.5	20.8
7 10	20 15.54	-22 35.3	2.429	3.426	3.9	18.3	7 10	20 17.32	-16 14.2	1.477	2.472	6.2	20.5
7 20	20 8.03	-23 25.1	2.410	3.424	1.1	18.0	7 20	20 8.41	-16 19.9	1.452	2.466	2.0	20.2
7 30	20 0.28	-24 11.9	2.419	3.423	3.1	18.2	7 30	19 59.16	-16 29.0	1.453	2.461	3.9	20.3
8 9	19 53.04	-24 52.7	2.457	3.421	6.2	18.4	8 9	19 50.76	-16 39.0	1.480	2.455	8.3	20.6
8 19	19 46.98	-25 25.8	2.521	3.419	9.1	18.6	8 19	19 44.22	-16 47.8	1.530	2.450	12.5	20.8
8 29	19 42.64	-25 50.5	2.609	3.417	11.6	18.8	8 29	19 40.27	-16 54.0	1.600	2.446	16.1	21.0
286080	2001 <i>TX</i> ₁		7 22.1 101°71	5°3/23.3	18		22998	Waltmyer		7 22.1 167°67	0°5/21.8	18	R
6 20	22 20.95	+ 0 17.4	0.276	1.146	55.7	20.6	6 20	20 28.03	-20 33.2	2.709	3.586	9.5	20.1
6 30	21 41.63	- 3 33.0	0.275	1.215	39.0	20.3	6 30	20 22.58	-20 58.7	2.639	3.588	6.8	19.9
7 10	20 57.24	- 7 56.8	0.287	1.278	21.8	20.0	7 10	20 15.77	-21 27.1	2.594	3.591	3.8	19.7
7 20	20 14.41	-12 6.0	0.321	1.334	7.2	19.8	7 20	20 8.13	-21 56.0	2.578	3.593	0.7	19.5
7 30	19 40.19	-15 21.1	0.376	1.383	10.3	20.3	7 30	20 0.32	-22 22.8	2.590	3.595	2.7	19.6
8 9	19 17.45	-17 36.9	0.450	1.425	19.8	21.1	8 9	19 53.03	-22 45.4	2.631	3.597	5.7	19.8
8 19	19 5.16	-19 7.8	0.538	1.462	27.0	21.8	8 19	19 46.88	-23 2.7	2.698	3.598	8.5	20.0
8 29	19 1.22	-20 7.9	0.637	1.492	32.0	22.3	8 29	19 42.35	-23 14.1	2.789	3.599	10.9	20.2
184563	2005 <i>QZ</i> ₆₆		7 22.1 160°03	3°3/24.3	18		386422	2008 <i>UY</i> ₃₅₈		7 22.1 76°73	3°1/23.5	16	
6 20	20 26.99	- 8 9.1	2.277	3.129	11.9	21.2	6 20	20 29.76	-11 34.9	1.777	2.649	13.9	21.5
6 30	20 21.98	- 8 25.0	2.204	3.131	9.1	21.0	6 30	20 24.30	-11 30.5	1.711	2.651	10.4	21.2
7 10	20 15.48	- 8 53.3	2.155	3.132	6.1	20.8	7 10	20 16.93	-11 37.7	1.667	2.654	6.7	21.0
7 20	20 8.03	- 9 32.5	2.131	3.134	3.7	20.7	7 20	20 8.35	-11 54.9	1.649	2.657	3.5	20.8
7 30	20 0.35	-10 20.0	2.135	3.135	3.9	20.7	7 30	19 59.52	-12 19.9	1.656	2.660	4.2	20.9
8 9	19 53.24	-11 12.5	2.167	3.136	6.6	20.9	8 9	19 51.49	-12 49.3	1.690	2.663	7.7	21.1
8 19	19 47.35	-12 6.3	2.225	3.137	9.5	21.0	8 19	19 45.11	-13 20.1	1.748	2.665	11.4	21.3
8 29	19 43.24	-12 58.3	2.307	3.138	12.2	21.2	8 29	19 41.02	-13 49.4	1.828	2.668	14.6	21.6
328225	2008 <i>FM</i> ₁₁		7 22.1 64°62	0°8/21.7	17		288482	2004 <i>FQ</i> ₂₂		7 22.1 63°09	3°4/20.8	17	
6 20	20 33.28	-20 47.5	1.364	2.262	15.5	21.0	6 20	20 34.24	-26 52.4	1.451	2.350	14.7	20.6
6 30	20 27.19	-21 10.8	1.317	2.277	11.1	20.8	6 30	20 27.98	-27 25.1	1.398	2.357	10.7	20.4
7 10	20 18.62	-21 39.2	1.292	2.291	6.2	20.5	7 10	20 19.14	-27 56.4	1.367	2.364	6.4	20.1
7 20	20 8.58	-22 7.8	1.290	2.306	1.3	20.2	7 20	20 8.74	-28 20.4	1.360	2.371	3.4	20.0
7 30	19 58.44	-22 31.9	1.314	2.321	4.4	20.5	7 30	19 58.15	-28 32.6	1.379	2.378	5.7	20.1
8 9	19 49.58	-22 48.3	1.363	2.336	9.2	20.8	8 9	19 48.81	-28 30.8	1.423	2.386	9.9	20.4
8 19	19 43.04	-22 56.1	1.434	2.351	13.4	21.1	8 19	19 41.82	-28 16.0	1.489	2.393	13.8	20.7
8 29	19 39.49	-22 55.5	1.525	2.366	16.9	21.4	8 29	19 37.89	-27 50.5	1.574	2.401	17.2	20.9
483236	2015 <i>RR</i> ₉₈		7 22.1 303°84	1°6/21.3	18		318332	2004 <i>TE</i> ₂₀₃		7 22.1 340°82	2°9/20.7	18	
6 20	20 29.19	-23 54.9	2.089	2.977	11.3	20.9	6 20	20 28.21	-26 26.8	1.813	2.711	12.3	19.7
6 30	20 23.85	-24 12.6	2.009	2.964	8.2	20.6	6 30	20 23.39	-26 58.8	1.743	2.701	9.0	19.5
7 10	20 16.65	-24 31.5	1.954	2.951	4.7	20.4	7 10	20 16.51	-27 30.7	1.696	2.693	5.4	19.2
7 20	20 8.25	-24 48.4	1.925	2.939	1.6	20.2	7 20	20 8.29	-27 58.2	1.674	2.685	2.9	19.1
7 30	19 59.53	-25 0.2	1.923	2.926	3.8	20.3	7 30	19 59.75	-28 16.9	1.678	2.677	4.9	19.2
8 9	19 51.47	-25 4.9	1.948	2.913	7.4	20.5	8 9	19 52.00	-28 24.6	1.708	2.670	8.6	19.4
8 19	19 44.90	-25 1.8	1.998	2.901	10.9	20.7	8 19	19 45.98	-28 20.7	1.761	2.664	12.1	19.6
8 29	19 40.49	-24 51.4	2.069	2.889	13.9	20.9	8 29	19 42.39	-28 6.4	1.835	2.659	15.2	19.8
316201	Malala		7 22.1 232°66	5°5/18.5	18		364127	2006 <i>BK</i> ₁₄₂		7 22.1 38°33	3°8/21.3	17	
6 20	20 33.83	-38 47.8	2.737	3.601	9.8	21.7	6 20	20 36.62	-28 3.9	1.043	1.955	18.0	19.9
6 30	20 26.98	-39 27.7	2.663	3.590	7.8	21.6	6 30	20 30.17	-28 7.8	1.002	1.967	13.1	19.6
7 10	20 18.33	-39 59.7	2.615	3.578	6.1	21.4	7 10	20 20.49	-28 7.0	0.981	1.980	7.8	19.4
7 20	20 8.55	-40 19.2	2.593	3.566	5.5	21.4	7 20	20 8.97	-27 55.6	0.981	1.993	3.9	19.2
7 30	19 58.51	-40 23.3	2.599	3.554	6.5	21.4	7 30	19 57.50	-27 30.3	1.005	2.007	6.5	19.4
8 9	19 49.16	-40 11.0	2.632	3.541	8.4	21.5	8 9	19 47.91	-26 51.5	1.050	2.022	11.4	19.7
8 19	19 41.31	-39 43.5	2.689	3.527	10.6	21.7	8 19	19 41.45	-26 2.7	1.117	2.037	16.0	20.1
8 29	19 35.57	-39 3.6	2.767	3.514	12.5	21.8	8 29	19 38.73	-25 7.9	1.201	2.053	19.9	20.4
516206	2016 <i>TO</i> ₈		7 22.1 246°24	6°5/17.5	18		485168	2010 <i>RX</i> ₁₂₇		7 22.1 294°99	4°3/20.2	17	
6 20	20 34.70	-39 51.7	2.540	3.404	10.4	22.1	6 20	20 33.24	-31 56.2	2.079	2.963	11.6	21.5
6 30	20 27.89	-40 54.2	2.464	3.387	8.4	22.0	6 30	20 26.97	-32 17.6	1.992	2.940	8.7	21.2
7 10	20 18.99	-41 48.6	2.412	3.369	6.9	21.9	7 10	20 18.54	-32 33.9	1.930	2.917	5.8	21.0
7 20	20 8.68	-42 29.2	2.386	3.351	6.5	21.8	7 20	20 8.66	-32 40.4	1.893	2.894	4.3	20.9
7 30	19 57.94	-42 51.6	2.388	3.332	7.6	21.8	7 30	19 58.37	-32 33.7	1.884	2.871	5.8	20.9
8 9	19 47.85	-42 54.4	2.415	3.312	9.6	21.9	8 9	19 48.81	-32 12.5	1.901	2.848	8.9	21.1
8 19	19 39.38	-42 38.4	2.466	3.292	11.8	22.1	8 19	19 40.99	-31 37.8	1.942	2.825	12.1	21.2
8 29	19 33.27	-42 6.8	2.538	3.272	13.8	22.2	8 29	19 35.64	-30 52.3	2.005	2.803	15.0	21.4
276000	2001 <i>XO</i> ₂₂₄		7 22.1 228°89	2°6/20.8	18		340545	2006 <i>KB</i> ₁₈		7 22.			

EPHEMERIDES

7 22.1

7 22.1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
504286	2006 <i>XS</i> ₂₂	7 22.1 259°89		3°6/23.4 18			483970	2006 <i>BW</i> ₂₃₀	7 22.1 270°70		3°4/20.4 17		
6 20	20 31.79	-11 48.5	1.606	2.480	14.9	21.7	6 20	20 34.39	-31 34.2	2.601	3.474	9.9	22.7
6 30	20 26.06	-11 29.8	1.530	2.471	11.3	21.5	6 30	20 27.44	-31 46.5	2.506	3.448	7.4	22.5
7 10	20 18.08	-11 22.5	1.476	2.463	7.3	21.2	7 10	20 18.68	-31 54.0	2.436	3.422	4.9	22.3
7 20	20 8.59	-11 26.1	1.447	2.455	3.9	21.0	7 20	20 8.73	-31 53.3	2.394	3.396	3.4	22.2
7 30	19 58.69	-11 38.7	1.443	2.446	4.8	21.0	7 30	19 58.43	-31 41.6	2.381	3.369	4.7	22.2
8 9	19 49.59	-11 57.7	1.465	2.437	8.7	21.3	8 9	19 48.72	-31 18.3	2.396	3.341	7.4	22.4
8 19	19 42.33	-12 19.9	1.511	2.429	12.8	21.5	8 19	19 40.42	-30 44.1	2.438	3.313	10.2	22.5
8 29	19 37.68	-12 42.5	1.577	2.420	16.4	21.7	8 29	19 34.17	-30 1.0	2.502	3.285	12.8	22.6
200222	1999 <i>TB</i> ₂₆₆	7 22.1 337°38		2°8/22.6 18			85473	1997 <i>LV</i> ₅	7 22.1 338°41		0°2/22.1 18		
6 20	20 30.68	-16 57.4	1.290	2.189	16.2	18.8	6 20	20 27.22	-19 7.2	1.138	2.052	16.8	19.4
6 30	20 25.70	-16 2.3	1.217	2.174	12.1	18.5	6 30	20 23.55	-19 16.2	1.070	2.037	12.3	19.1
7 10	20 18.05	-15 11.9	1.164	2.159	7.4	18.2	7 10	20 17.01	-19 34.2	1.022	2.023	7.0	18.8
7 20	20 8.60	-14 26.8	1.133	2.146	3.2	17.9	7 20	20 8.47	-19 57.1	0.994	2.010	1.3	18.4
7 30	19 58.67	-13 47.2	1.127	2.134	5.0	18.0	7 30	19 59.35	-20 20.3	0.990	1.998	4.7	18.6
8 9	19 49.76	-13 13.2	1.145	2.123	9.9	18.3	8 9	19 51.29	-20 39.3	1.007	1.988	10.4	18.9
8 19	19 43.09	-12 44.5	1.184	2.113	14.6	18.5	8 19	19 45.64	-20 51.3	1.045	1.979	15.6	19.1
8 29	19 39.53	-12 20.2	1.242	2.104	18.8	18.7	8 29	19 43.35	-20 55.1	1.101	1.972	20.0	19.4
43628	2002 <i>CA</i> ₂₃₄	7 22.1 86°23		0°1/22.1 18			251894	1999 <i>VO</i> ₁₀₇	7 22.1 175°22		3°9/19.5 18		
6 20	20 30.55	-19 56.1	2.285	3.163	10.9	18.6	6 20	20 29.92	-30 56.1	2.443	3.326	10.1	20.5
6 30	20 24.44	-19 57.2	2.230	3.179	7.8	18.4	6 30	20 24.23	-31 47.5	2.379	3.327	7.5	20.3
7 10	20 16.81	-20 1.2	2.200	3.196	4.4	18.2	7 10	20 16.85	-32 35.9	2.341	3.327	5.0	20.2
7 20	20 8.33	-20 6.1	2.197	3.212	0.8	18.0	7 20	20 8.41	-33 16.8	2.329	3.328	3.9	20.1
7 30	19 59.80	-20 9.8	2.222	3.228	2.8	18.2	7 30	19 59.73	-33 46.5	2.345	3.328	5.2	20.2
8 9	19 52.03	-20 11.0	2.275	3.244	6.3	18.4	8 9	19 51.71	-34 3.1	2.389	3.328	7.8	20.4
8 19	19 45.69	-20 8.9	2.354	3.260	9.3	18.6	8 19	19 45.10	-34 6.7	2.457	3.328	10.3	20.5
8 29	19 41.26	-20 3.3	2.457	3.276	11.9	18.9	8 29	19 40.49	-33 58.4	2.547	3.328	12.6	20.7
513423	2008 <i>UF</i> ₄₁	7 22.1 275°84		2°5/20.9 18			8481	1988 <i>LH</i>	7 22.1 73°17		2°7/23.6 18		
6 20	20 32.65	-25 3.0	1.923	2.810	12.2	22.5	6 20	20 29.62	-11 37.3	2.053	2.917	12.5	17.8
6 30	20 26.72	-25 40.0	1.830	2.784	8.9	22.2	6 30	20 23.87	-11 33.9	2.001	2.938	9.4	17.7
7 10	20 18.52	-26 19.1	1.762	2.758	5.3	22.0	7 10	20 16.55	-11 40.4	1.974	2.959	6.0	17.5
7 20	20 8.69	-26 55.4	1.719	2.731	2.5	21.7	7 20	20 8.34	-11 55.2	1.972	2.980	3.1	17.4
7 30	19 58.26	-27 24.3	1.704	2.704	4.7	21.8	7 30	20 0.08	-12 16.2	1.998	3.001	3.7	17.4
8 9	19 48.41	-27 42.4	1.716	2.676	8.7	22.0	8 9	19 52.60	-12 40.6	2.051	3.022	6.7	17.7
8 19	19 40.22	-27 48.7	1.752	2.648	12.5	22.2	8 19	19 46.61	-13 6.1	2.129	3.042	9.9	17.9
8 29	19 34.55	-27 43.7	1.808	2.619	15.9	22.3	8 29	19 42.59	-13 30.3	2.231	3.063	12.6	18.1
185554	Bikushev	7 22.1 40°65		1°1/22.8 18			277374	2005 <i>US</i> ₂₂	7 22.1 123°52		7°7/17.2 18		
6 20	20 27.57	-14 27.4	1.991	2.868	12.3	19.9	6 20	20 34.63	-42 54.7	2.310	3.171	11.4	20.1
6 30	20 22.64	-15 4.4	1.923	2.870	9.0	19.7	6 30	20 27.92	-43 59.9	2.259	3.175	9.5	20.0
7 10	20 15.98	-15 51.2	1.880	2.873	5.3	19.5	7 10	20 19.03	-44 53.2	2.233	3.178	8.0	19.9
7 20	20 8.21	-16 44.8	1.862	2.876	1.6	19.3	7 20	20 8.80	-45 28.8	2.231	3.182	7.7	19.9
7 30	20 0.19	-17 40.9	1.872	2.879	3.1	19.4	7 30	19 58.34	-45 42.8	2.255	3.185	8.7	20.0
8 9	19 52.83	-18 35.4	1.909	2.882	6.9	19.6	8 9	19 48.84	-45 34.7	2.303	3.188	10.5	20.1
8 19	19 46.92	-19 24.9	1.971	2.885	10.4	19.8	8 19	19 41.26	-45 6.8	2.374	3.191	12.5	20.2
8 29	19 43.06	-20 7.4	2.056	2.888	13.5	20.0	8 29	19 36.27	-44 22.8	2.464	3.194	14.3	20.4
314048	2005 <i>AR</i> ₁₄	7 22.1 189°99		3°4/20.5 17			478482	2012 <i>RV</i> ₁	7 22.1 279°13		0°4/22.3 17		
6 20	20 36.56	-27 18.2	1.785	2.671	13.1	21.7	6 20	20 31.41	-18 44.6	1.720	2.607	13.5	21.6
6 30	20 29.45	-28 2.1	1.719	2.671	9.6	21.4	6 30	20 25.70	-18 49.7	1.649	2.602	9.8	21.4
7 10	20 19.96	-28 45.0	1.676	2.669	5.8	21.2	7 10	20 17.85	-19 0.5	1.600	2.597	5.6	21.1
7 20	20 8.93	-29 21.2	1.659	2.667	3.4	21.1	7 20	20 8.61	-19 14.2	1.576	2.592	1.1	20.8
7 30	19 57.55	-29 45.5	1.669	2.664	5.5	21.2	7 30	19 59.04	-19 27.8	1.580	2.587	3.6	21.0
8 9	19 47.14	-29 55.6	1.706	2.661	9.2	21.4	8 9	19 50.31	-19 38.7	1.609	2.582	8.0	21.3
8 19	19 38.75	-29 51.8	1.767	2.656	12.8	21.6	8 19	19 43.37	-19 45.4	1.662	2.577	12.0	21.5
8 29	19 33.15	-29 36.2	1.849	2.651	15.9	21.8	8 29	19 38.94	-19 47.2	1.737	2.572	15.4	21.7
11981	Boncompagni	7 22.1 178°28		1°0/21.6 18			292369	2006 <i>SJ</i> ₂₄₉	7 22.1 192°68		2°8/23.4 17		
6 20	20 32.35	-22 16.0	1.938	2.823	12.3	18.7	6 20	20 32.18	-12 7.2	1.763	2.632	14.0	21.7
6 30	20 26.14	-22 31.3	1.871	2.824	8.8	18.5	6 30	20 26.16	-12 10.4	1.691	2.631	10.5	21.5
7 10	20 17.96	-22 48.9	1.827	2.825	5.0	18.3	7 10	20 18.08	-12 25.0	1.642	2.630	6.6	21.3
7 20	20 8.57	-23 5.4	1.810	2.825	1.2	18.0	7 20	20 8.65	-12 49.4	1.618	2.628	3.2	21.1
7 30	19 58.94	-23 17.7	1.820	2.825	3.7	18.2	7 30	19 58.91	-13 20.6	1.621	2.625	4.1	21.1
8 9	19 50.13	-23 23.7	1.857	2.825	7.6	18.4	8 9	19 49.93	-13 55.2	1.651	2.623	7.9	21.3
8 19	19 43.02	-23 22.8	1.919	2.824	11.2	18.7	8 19	19 42.67	-14 29.8	1.705	2.619	11.8	21.6
8 29	19 38.24	-23 15.3	2.003	2.824	14.2	18.9	8 29	19 37.83	-15 1.8	1.781	2.616	15.1	21.8
75868	2000 <i>CF</i> ₂₁	7 22.1 310°90		2°5/23.1 18			37187	2000 <i>WP</i> ₆₀	7 22.1 357°49		2°0/20.9 18		
6 20	20 28.92	-13 56.8	1.554	2.440	14.7	19.2	6 20	20 22.81	-18 9.5	1.083	2.003	16.9	15.7
6 30	20 24.37	-13 53.4	1.456	2.405	11.1	18.9	6 30	20 20.42	-19 52.2	1.026	1.997	12.1	15.4
7 10	20 17.37	-14 1.1	1.378	2.371	6.9	18.6	7 10	20 15.26	-21 52.0	0.989	1.992	6.8	15.1
7 20	20 8.53	-14 18.9	1.324	2.336	3.0	18.3	7 20	20 8.19	-23 58.8	0.974	1.989	2.1	14.8
7 30	19 58.89	-14 44.3	1.295	2.302	4.4	18.3	7 30	20 0.58	-26 0.0	0.983	1.988	5.8	15.0
8 9	19 49.75	-15 13.6	1.291	2.268	9.1	18.4	8 9	19 54.02	-27 44.8	1.014	1.989	11.2	15.3
8 19	19 42.33	-15 43.4	1.310	2.234	13.9	18.6	8 19	19 49.83	-29 6.4	1.065	1.992	16.1	15.6
8 29	19 37.65	-16 10.7	1.349	2.201	18.1	18.8	8 29	19 48.96	-30 2.9	1.134	1.996	20.2	15.9
361950	2008 <i>HD</i> ₆₄	7 22.1 315°82		4°3/24.7 18			487236	2014 <i>PC</i> ₁₁	7 22.1 205°31		1°1/21.5 18		
6 20	20 26.15	- 6 33.8	2.1										

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
446726	2015 <i>OD</i> ₇₃		7 22.1 277°30	0°1/22.1 18			244452	2002 <i>RE</i> ₁₂₂		7 22.1 279°58	3°7/19.9 18		
6 20	20 31.19	-20 43.1	2.100	2.982	11.6	21.1	6 20	20 31.27	-27 43.6	1.984	2.874	11.8	20.3
6 30	20 25.20	-20 36.5	2.027	2.978	8.4	20.9	6 30	20 25.74	-28 43.8	1.899	2.852	8.7	20.1
7 10	20 17.43	-20 32.2	1.978	2.975	4.7	20.7	7 10	20 18.02	-29 45.2	1.837	2.830	5.5	19.8
7 20	20 8.55	-20 28.3	1.956	2.971	0.8	20.4	7 20	20 8.75	-30 41.7	1.802	2.808	3.7	19.7
7 30	19 59.46	-20 22.7	1.961	2.968	3.1	20.5	7 30	19 58.90	-31 27.9	1.795	2.786	5.6	19.7
8 9	19 51.10	-20 14.3	1.994	2.964	6.9	20.8	8 9	19 49.64	-31 59.9	1.813	2.763	9.1	19.9
8 19	19 44.27	-20 2.6	2.053	2.961	10.4	21.0	8 19	19 42.00	-32 16.6	1.856	2.740	12.5	20.1
8 29	19 39.55	-19 47.7	2.134	2.958	13.3	21.2	8 29	19 36.82	-32 18.9	1.919	2.718	15.5	20.2
25443	1999 <i>WC</i> ₁₀		7 22.1 172°17	1°6/20.9 18			198448	2004 <i>XV</i> ₄		7 22.1 278°07	2°0/21.2 18		
6 20	20 28.66	-24 54.9	2.908	3.786	8.8	19.6	6 20	20 32.06	-23 42.6	1.799	2.690	12.8	20.2
6 30	20 23.02	-25 24.5	2.839	3.788	6.3	19.4	6 30	20 26.37	-24 13.3	1.714	2.670	9.3	19.9
7 10	20 16.07	-25 54.3	2.795	3.790	3.7	19.3	7 10	20 18.39	-24 46.8	1.653	2.650	5.4	19.6
7 20	20 8.30	-26 21.5	2.780	3.792	1.6	19.1	7 20	20 8.82	-25 18.6	1.616	2.630	2.0	19.4
7 30	20 0.37	-26 43.7	2.794	3.794	3.2	19.2	7 30	19 58.71	-25 44.2	1.607	2.610	4.5	19.5
8 9	19 52.96	-26 59.3	2.837	3.795	5.8	19.4	8 9	19 49.28	-26 0.4	1.624	2.589	8.7	19.7
8 19	19 46.65	-27 7.6	2.906	3.796	8.3	19.6	8 19	19 41.60	-26 6.0	1.665	2.568	12.6	19.9
8 29	19 41.92	-27 8.7	2.999	3.796	10.6	19.8	8 29	19 36.52	-26 1.6	1.726	2.548	16.1	20.1
202520	2006 <i>BL</i> ₂₇₀		7 22.1 217°52	5°7/25.5 18			255309	2005 <i>WJ</i> ₈		7 22.1 238°08	0°1/22.1 18		
6 20	20 29.36	- 2 29.9	2.105	2.933	13.6	20.9	6 20	20 28.55	-19 20.6	2.590	3.465	9.9	22.0
6 30	20 23.92	- 2 28.2	2.022	2.926	11.0	20.7	6 30	20 23.14	-19 40.1	2.506	3.454	7.1	21.8
7 10	20 16.75	- 2 43.3	1.961	2.919	8.2	20.6	7 10	20 16.26	-20 3.6	2.448	3.444	4.0	21.6
7 20	20 8.45	- 3 15.4	1.926	2.911	6.1	20.4	7 20	20 8.41	-20 28.7	2.417	3.432	0.7	21.3
7 30	19 59.80	- 4 2.7	1.917	2.902	5.9	20.4	7 30	20 0.30	-20 52.9	2.415	3.421	2.7	21.5
8 9	19 51.68	- 5 1.6	1.935	2.893	8.0	20.5	8 9	19 52.67	-21 14.1	2.441	3.409	6.0	21.7
8 19	19 44.90	- 6 7.7	1.978	2.884	10.8	20.7	8 19	19 46.18	-21 30.8	2.494	3.397	9.0	21.8
8 29	19 40.08	- 7 16.1	2.044	2.874	13.7	20.8	8 29	19 41.40	-21 42.3	2.570	3.385	11.6	22.0
312413	2008 <i>FS</i> ₁₁₂		7 22.1 125°11	3°2/20.1 18			210738	2000 <i>US</i> ₁₅		7 22.1 315°57	3°2/20.9 18		
6 20	20 30.02	-28 18.2	2.313	3.198	10.5	21.2	6 20	20 31.52	-24 53.6	1.181	2.093	16.4	20.2
6 30	20 24.33	-29 7.4	2.252	3.203	7.7	21.0	6 30	20 26.85	-25 31.1	1.111	2.076	12.0	19.9
7 10	20 16.93	-29 55.0	2.216	3.208	4.8	20.9	7 10	20 19.03	-26 12.0	1.061	2.061	7.1	19.6
7 20	20 8.47	-30 36.8	2.208	3.213	3.2	20.8	7 20	20 8.97	-26 49.3	1.033	2.045	3.3	19.3
7 30	19 59.81	-31 8.8	2.227	3.218	4.8	20.9	7 30	19 58.21	-27 16.0	1.028	2.031	6.3	19.5
8 9	19 51.84	-31 29.1	2.273	3.222	7.6	21.1	8 9	19 48.55	-27 27.5	1.046	2.017	11.5	19.7
8 19	19 45.32	-31 37.2	2.345	3.227	10.4	21.3	8 19	19 41.50	-27 23.2	1.084	2.003	16.5	20.0
8 29	19 40.84	-31 34.2	2.438	3.231	12.8	21.4	8 29	19 38.08	-27 4.9	1.139	1.991	20.8	20.2
521495	2015 <i>OD</i> ₉₅		7 22.1 297°44	2°9/24.0 18			476174	2007 <i>TH</i> ₄₂₇		7 22.1 233°14	6°6/18.1 18		
6 20	20 26.82	- 9 38.6	2.112	2.973	12.4	21.0	6 20	20 34.19	-37 14.9	2.083	2.961	11.8	21.9
6 30	20 22.08	- 9 58.5	2.034	2.968	9.4	20.8	6 30	20 27.79	-38 22.0	2.019	2.955	9.3	21.7
7 10	20 15.71	-10 31.0	1.980	2.963	6.1	20.6	7 10	20 19.12	-39 21.4	1.980	2.949	7.3	21.6
7 20	20 8.27	-11 14.3	1.951	2.958	3.3	20.4	7 20	20 8.95	-40 6.5	1.965	2.943	6.6	21.5
7 30	20 0.54	-12 5.6	1.950	2.953	3.8	20.5	7 30	19 58.41	-40 32.3	1.978	2.936	8.0	21.6
8 9	19 53.36	-13 0.9	1.976	2.948	6.8	20.6	8 9	19 48.72	-40 37.0	2.015	2.930	10.3	21.7
8 19	19 47.49	-13 56.5	2.027	2.943	10.1	20.8	8 19	19 40.94	-40 22.0	2.075	2.923	12.9	21.9
8 29	19 43.52	-14 49.0	2.101	2.938	13.1	21.0	8 29	19 35.79	-39 50.8	2.155	2.916	15.2	22.0
363933	2005 <i>TR</i> ₅₄		7 22.1 255°88	5°0/25.1 18			351254	2004 <i>RK</i> ₇₆		7 22.1 291°18	8°6/16.6 18		
6 20	20 27.22	- 3 28.4	2.524	3.351	11.7	20.9	6 20	20 36.23	-45 10.4	2.249	3.104	11.9	20.1
6 30	20 22.18	- 3 13.3	2.432	3.336	9.4	20.8	6 30	20 29.44	-46 11.6	2.176	3.083	10.2	20.0
7 10	20 15.71	- 3 11.1	2.364	3.320	7.1	20.6	7 10	20 20.14	-47 0.2	2.126	3.062	8.9	19.9
7 20	20 8.29	- 3 22.1	2.321	3.304	5.3	20.5	7 20	20 9.15	-47 29.4	2.100	3.041	8.7	19.8
7 30	20 0.55	- 3 45.5	2.305	3.288	5.3	20.4	7 30	19 57.70	-47 34.5	2.099	3.020	9.7	19.8
8 9	19 53.22	- 4 19.2	2.317	3.272	7.1	20.5	8 9	19 47.16	-47 14.4	2.122	2.999	11.6	19.9
8 19	19 46.95	- 5 0.3	2.354	3.255	9.5	20.7	8 19	19 38.67	-46 31.6	2.167	2.978	13.7	20.0
8 29	19 42.30	- 5 45.5	2.415	3.238	12.0	20.8	8 29	19 33.06	-45 30.5	2.230	2.957	15.7	20.2
479140	2013 <i>BM</i> ₅₇		7 22.1 289°93	0°2/22.0 18			158378	2001 <i>XN</i> ₂₀₃		7 22.1 179°23	3°1/20.1 18		
6 20	20 28.52	-18 19.1	1.966	2.851	12.1	21.3	6 20	20 33.33	-26 38.3	2.214	3.095	11.1	21.1
6 30	20 23.49	-18 57.5	1.892	2.845	8.8	21.1	6 30	20 26.87	-27 45.7	2.147	3.097	8.1	20.9
7 10	20 16.59	-19 43.1	1.841	2.838	5.0	20.8	7 10	20 18.48	-28 53.5	2.106	3.098	4.9	20.7
7 20	20 8.46	-20 32.2	1.817	2.832	0.9	20.5	7 20	20 8.84	-29 56.3	2.092	3.099	3.1	20.6
7 30	19 59.99	-21 20.5	1.820	2.826	3.3	20.7	7 30	19 58.87	-30 49.1	2.107	3.099	4.9	20.7
8 9	19 52.17	-22 4.3	1.850	2.820	7.3	20.9	8 9	19 49.57	-31 28.8	2.150	3.098	8.0	20.9
8 19	19 45.83	-22 40.8	1.904	2.815	11.0	21.1	8 19	19 41.81	-31 54.3	2.218	3.097	11.0	21.1
8 29	19 41.67	-23 8.8	1.981	2.809	14.1	21.3	8 29	19 36.28	-32 6.7	2.308	3.094	13.6	21.3
351133	2003 <i>WY</i> ₁₁₂		7 22.1 249°23	4°9/24.2 18			435677	2008 <i>TX</i> ₄₆		7 22.1 170°22	7°4/17.8 17		
6 20	20 30.68	- 6 46.8	2.148	2.991	12.9	21.1	6 20	20 35.12	-37 49.6	1.886	2.766	12.8	21.0
6 30	20 24.87	- 6 12.2	2.060	2.978	10.2	20.9	6 30	20 28.64	-39 9.1	1.832	2.767	10.1	20.9
7 10	20 17.31	- 5 48.9	1.996	2.964	7.3	20.7	7 10	20 19.66	-40 19.6	1.801	2.768	8.0	20.8
7 20	20 8.59	- 5 37.7	1.958	2.950	5.2	20.5	7 20	20 9.06	-41 13.5	1.795	2.769	7.5	20.7
7 30	19 59.52	- 5 38.3	1.946	2.936	5.4	20.5	7 30	19 58.11	-41 45.1	1.814	2.769	8.8	20.8
8 9	19 50.97	- 5 49.1	1.962	2.921	7.9	20.6	8 9	19 48.17	-41 52.7	1.859	2.770	11.2	21.0
8 19	19 43.75	- 6 7.8	2.003	2.906	10.8	20.8	8 19	19 40.37	-41 38.3	1.925	2.770	13.8	21.1
8 29	19 38.51	- 6 31.4	2.066	2.891	13.7	21.0	8 29	19 35.48	-41 5.9	2.010	2.770	16.2	21.3
207888	2007 <i>YJ</i> ₃₂		7 22.1 84°47	0°2/22.2 18			48854	1998					

EPHEMERIDES

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
373186	2012 <i>DX</i> ₅₈		7 22.1 26°95'	4.8/20.5	17		371584	2006 <i>WH</i> ₄		7 22.2 240°22'	0.9/21.7	18	
6 20	20 31.93	-27 57.2	1.077	1.994	17.2	19.8	6 20	20 32.93	-20 23.3	1.821	2.706	13.0	21.9
6 30	20 26.92	-28 41.8	1.037	2.004	12.5	19.5	6 30	20 26.93	-20 59.9	1.740	2.693	9.4	21.7
7 10	20 18.83	-29 23.8	1.017	2.015	7.7	19.3	7 10	20 18.70	-21 42.4	1.682	2.680	5.3	21.4
7 20	20 8.90	-29 55.2	1.019	2.028	4.8	19.2	7 20	20 8.94	-22 26.6	1.650	2.666	1.2	21.1
7 30	19 58.86	-30 9.8	1.043	2.041	7.2	19.4	7 30	19 58.67	-23 7.7	1.646	2.651	3.9	21.3
8 9	19 50.44	-30 5.6	1.088	2.055	11.7	19.7	8 9	19 49.09	-23 41.8	1.668	2.636	8.2	21.5
8 19	19 44.88	-29 44.6	1.154	2.071	16.0	20.0	8 19	19 41.23	-24 6.8	1.715	2.621	12.2	21.7
8 29	19 42.85	-29 10.2	1.238	2.087	19.6	20.2	8 29	19 35.89	-24 22.3	1.784	2.605	15.7	21.9
416063	2002 <i>JH</i> ₁₄		7 22.1 59°99'	1.0/21.5	17		401958	2002 <i>RY</i> ₂₄₈		7 22.2 287°55'	3.1/20.4	18	
6 20	20 31.14	-18 18.1	1.526	2.418	14.6	20.0	6 20	20 30.08	-29 38.6	2.470	3.353	10.0	21.2
6 30	20 25.56	-19 37.3	1.484	2.441	10.4	19.8	6 30	20 24.35	-30 1.4	2.397	3.347	7.4	21.1
7 10	20 17.79	-21 4.7	1.465	2.464	5.7	19.5	7 10	20 16.99	-30 21.2	2.350	3.341	4.7	20.9
7 20	20 8.71	-22 33.3	1.472	2.487	1.3	19.3	7 20	20 8.60	-30 34.8	2.330	3.335	3.1	20.8
7 30	19 59.50	-23 55.6	1.505	2.510	4.2	19.6	7 30	20 0.01	-30 39.2	2.337	3.329	4.5	20.8
8 9	19 51.35	-25 6.0	1.565	2.534	8.6	19.9	8 9	19 52.07	-30 33.5	2.372	3.323	7.2	21.0
8 19	19 45.22	-26 1.6	1.648	2.557	12.4	20.2	8 19	19 45.51	-30 17.7	2.432	3.317	9.9	21.2
8 29	19 41.73	-26 42.0	1.752	2.580	15.6	20.4	8 29	19 40.90	-29 53.4	2.515	3.311	12.4	21.3
452771	2006 <i>CS</i> ₆₆		7 22.1 266°45'	0.1/22.1	17		359443	2010 <i>MK</i> ₈₈		7 22.2 92°20'	11.3/16.3	18	
6 20	20 28.66	-19 55.8	2.435	3.313	10.3	22.0	6 20	20 50.57	-59 33.7	2.533	3.307	13.1	20.5
6 30	20 23.30	-20 6.4	2.352	3.302	7.5	21.8	6 30	20 39.69	-60 30.7	2.510	3.327	12.0	20.4
7 10	20 16.38	-20 20.5	2.294	3.291	4.2	21.6	7 10	20 25.72	-61 5.1	2.508	3.346	11.4	20.4
7 20	20 8.47	-20 35.7	2.264	3.279	0.7	21.3	7 20	20 10.13	-61 10.9	2.528	3.365	11.3	20.4
7 30	20 0.29	-20 49.8	2.262	3.268	2.8	21.4	7 30	19 54.81	-60 45.8	2.570	3.384	11.8	20.5
8 9	19 52.63	-21 0.9	2.287	3.256	6.2	21.6	8 9	19 41.56	-59 52.2	2.632	3.403	12.6	20.6
8 19	19 46.21	-21 7.8	2.339	3.245	9.4	21.8	8 19	19 31.54	-58 35.5	2.715	3.421	13.7	20.7
8 29	19 41.59	-21 10.0	2.414	3.233	12.1	22.0	8 29	19 25.28	-57 2.6	2.815	3.440	14.7	20.9
386805	2010 <i>FX</i> ₂		7 22.1 261°07'	0.5/22.4	17		215436	2002 <i>LP</i> ₁₁		7 22.2 344°70'	1.0/22.6	17	
6 20	20 29.59	-16 34.4	1.811	2.694	13.1	21.2	6 20	20 20.90	-14 41.8	0.909	1.834	18.7	18.7
6 30	20 24.37	-17 8.5	1.740	2.691	9.5	21.0	6 30	20 19.44	-15 30.3	0.845	1.816	13.9	18.3
7 10	20 17.15	-17 51.6	1.693	2.689	5.5	20.7	7 10	20 14.98	-16 41.2	0.798	1.801	8.2	18.0
7 20	20 8.62	-18 40.1	1.671	2.686	1.2	20.4	7 20	20 8.33	-18 9.3	0.771	1.787	2.0	17.5
7 30	19 59.76	-19 29.5	1.676	2.683	3.4	20.6	7 30	20 0.95	-19 44.9	0.765	1.775	5.0	17.7
8 9	19 51.62	-20 15.7	1.707	2.680	7.6	20.8	8 9	19 54.63	-21 16.8	0.779	1.765	11.4	18.0
8 19	19 45.11	-20 55.5	1.764	2.678	11.5	21.1	8 19	19 50.91	-22 35.8	0.811	1.758	17.1	18.3
8 29	19 40.93	-21 27.4	1.842	2.675	14.8	21.3	8 29	19 50.89	-23 36.3	0.859	1.753	22.0	18.6
4260	Yanai		7 22.1 249°47'	0.8/21.7	18		445378	2010 <i>RQ</i> ₂₆		7 22.2 294°94'	5.5/19.6	18	
6 20	20 29.74	-20 48.4	2.049	2.934	11.7	16.8	6 20	20 33.87	-35 23.6	2.092	2.973	11.7	20.6
6 30	20 24.32	-21 20.1	1.975	2.929	8.4	16.6	6 30	20 27.49	-35 54.2	2.017	2.959	9.0	20.4
7 10	20 17.06	-21 56.3	1.926	2.923	4.7	16.4	7 10	20 18.94	-36 17.2	1.966	2.944	6.6	20.2
7 20	20 8.60	-22 33.2	1.902	2.918	1.1	16.1	7 20	20 8.98	-36 27.7	1.940	2.930	5.5	20.1
7 30	19 59.83	-23 7.1	1.907	2.912	3.5	16.3	7 30	19 58.71	-36 21.8	1.941	2.916	6.8	20.2
8 9	19 51.72	-23 35.1	1.938	2.907	7.3	16.5	8 9	19 49.30	-35 58.8	1.967	2.902	9.4	20.3
8 19	19 45.11	-23 55.5	1.995	2.901	10.8	16.7	8 19	19 41.70	-35 20.1	2.018	2.888	12.3	20.5
8 29	19 40.64	-24 7.7	2.074	2.895	13.8	16.9	8 29	19 36.64	-34 29.2	2.089	2.874	14.9	20.6
16700	Seiwa		7 22.1 218°13'	2.7/20.9	18		117770	2005 <i>GZ</i> ₈₈		7 22.2 55°55'	5.8/24.7	17	
6 20	20 34.66	-24 33.2	1.514	2.409	14.5	18.1	6 20	20 31.04	-6 55.0	1.311	2.183	17.7	20.1
6 30	20 28.46	-25 16.2	1.448	2.405	10.5	17.9	6 30	20 25.69	-6 37.2	1.261	2.195	13.8	19.9
7 10	20 19.64	-26 1.6	1.404	2.401	6.1	17.6	7 10	20 17.97	-6 39.2	1.230	2.208	9.6	19.7
7 20	20 9.09	-26 43.2	1.385	2.397	2.8	17.4	7 20	20 8.81	-7 0.4	1.221	2.221	6.3	19.6
7 30	19 58.11	-27 15.2	1.392	2.393	5.3	17.5	7 30	19 59.46	-7 37.8	1.236	2.234	6.4	19.6
8 9	19 48.14	-27 34.2	1.424	2.388	9.7	17.8	8 9	19 51.24	-8 26.3	1.275	2.248	9.7	19.8
8 19	19 40.39	-27 39.5	1.479	2.383	13.9	18.0	8 19	19 45.17	-9 20.0	1.337	2.261	13.6	20.1
8 29	19 35.67	-27 32.6	1.554	2.378	17.5	18.3	8 29	19 41.93	-10 13.5	1.418	2.275	17.1	20.3
127775	2003 <i>FH</i> ₅₃		7 22.1 212°43'	3.6/20.0	18		305507	2008 <i>EK</i> ₁₁₇		7 22.2 140°15'	5.0/19.2	18	
6 20	20 32.55	-26 16.9	1.786	2.678	12.8	19.8	6 20	20 33.05	-35 18.0	2.444	3.319	10.4	21.6
6 30	20 26.71	-27 29.7	1.720	2.675	9.3	19.5	6 30	20 26.52	-36 1.0	2.388	3.326	8.0	21.5
7 10	20 18.57	-28 44.3	1.677	2.672	5.7	19.3	7 10	20 18.22	-36 37.3	2.356	3.332	5.8	21.3
7 20	20 8.89	-29 54.0	1.661	2.668	3.6	19.2	7 20	20 8.85	-37 2.4	2.351	3.338	5.0	21.3
7 30	19 58.78	-30 52.1	1.671	2.664	5.7	19.3	7 30	19 59.33	-37 13.1	2.373	3.343	6.1	21.4
8 9	19 49.47	-31 34.7	1.708	2.660	9.3	19.5	8 9	19 50.61	-37 8.6	2.422	3.349	8.3	21.5
8 19	19 42.02	-32 0.6	1.768	2.656	12.9	19.7	8 19	19 43.47	-36 50.0	2.496	3.354	10.7	21.7
8 29	19 37.22	-32 10.9	1.849	2.651	15.9	19.9	8 29	19 38.49	-36 19.6	2.591	3.359	12.8	21.9
232959	2005 <i>EJ</i> ₂₇		7 22.2 154°04'	5.6/26.3	18		25188	1998 <i>SR</i> ₁₁₇		7 22.2 280°37'	5.8/19.5	18	
6 20	20 28.56	-0 7.8	2.403	3.213	12.7	21.4	6 20	20 34.60	-34 33.4	1.862	2.747	12.7	18.4
6 30	20 23.10	-0 16.2	2.331	3.221	10.3	21.2	6 30	20 28.18	-35 16.3	1.797	2.742	9.7	18.2
7 10	20 16.22	-0 41.2	2.282	3.228	7.9	21.1	7 10	20 19.39	-35 51.9	1.755	2.736	7.0	18.0
7 20	20 8.45	-1 22.5	2.258	3.234	6.0	21.0	7 20	20 9.09	-36 14.4	1.739	2.731	5.8	17.9
7 30	20 0.49	-2 18.0	2.261	3.240	5.7	21.0	7 30	19 58.49	-36 19.2	1.748	2.725	7.2	18.0
8 9	19 53.06	-3 24.2	2.293	3.245	7.3	21.1	8 9	19 48.89	-36 5.1	1.783	2.720	10.1	18.2
8 19	19 46.82	-4 36.6	2.350	3.250	9.6	21.2	8 19	19 41.33	-35 34.0	1.841	2.714	13.1	18.4
8 29	19 42.28	-5 50.9	2.432	3.255	11.9	21.4	8 29	19 36.54	-34 49.5	1.919	2.709	15.9	18.5
428287	2007 <i>EC</i> ₁₁₇		7 22.2 105°40'	5.5/19.4	17		330575	2008 <i>CW</i> ₇₃		7 22.2 162°51'	0.		

EPHEMERIDES

7 22.2

7 22.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
424566	2008 <i>FH</i> ₈₆		7 22.2 182°14	0°8/22.6	17		521172	2015 <i>FM</i> ₄₀₉		7 22.2 32°49	6°3/18.5	17	
6 20	20 32.98	-16 14.5	1.833	2.709	13.3	22.6	6 20	20 33.06	-32 36.5	1.647	2.541	13.5	21.2
6 30	20 26.77	-16 38.4	1.763	2.710	9.7	22.3	6 30	20 27.34	-34 3.3	1.592	2.543	10.3	21.0
7 10	20 18.52	-17 10.7	1.716	2.710	5.6	22.1	7 10	20 19.05	-35 25.7	1.561	2.544	7.4	20.8
7 20	20 8.95	-17 48.2	1.695	2.710	1.4	21.8	7 20	20 9.08	-36 35.2	1.554	2.546	6.4	20.8
7 30	19 59.05	-18 27.0	1.702	2.709	3.4	22.0	7 30	19 58.70	-37 24.9	1.573	2.547	8.1	20.9
8 9	19 49.94	-19 3.3	1.736	2.708	7.6	22.2	8 9	19 49.34	-37 51.6	1.616	2.549	11.2	21.1
8 19	19 42.52	-19 34.7	1.795	2.706	11.5	22.4	8 19	19 42.15	-37 56.2	1.681	2.551	14.3	21.3
8 29	19 37.51	-19 59.6	1.876	2.704	14.8	22.7	8 29	19 37.95	-37 42.0	1.764	2.553	17.1	21.5
182868	2002 <i>CF</i> ₂₀₄		7 22.2 41°32	4°0/20.3	18		321930	2010 <i>TL</i> ₉₈		7 22.2 113°68	2°8/20.5	18	
6 20	20 32.71	-31 26.6	2.093	2.978	11.5	20.0	6 20	20 30.83	-28 17.1	2.544	3.425	9.9	21.2
6 30	20 26.43	-31 49.4	2.032	2.981	8.5	19.8	6 30	20 24.76	-28 50.5	2.490	3.438	7.2	21.1
7 10	20 18.23	-32 7.2	1.996	2.984	5.6	19.6	7 10	20 17.17	-29 21.8	2.460	3.452	4.4	20.9
7 20	20 8.88	-32 15.7	1.985	2.987	4.0	19.5	7 20	20 8.70	-29 47.4	2.458	3.464	2.8	20.8
7 30	19 59.38	-32 12.2	2.002	2.991	5.4	19.6	7 30	20 0.12	-30 4.6	2.484	3.477	4.2	21.0
8 9	19 50.78	-31 55.7	2.045	2.994	8.3	19.8	8 9	19 52.24	-30 12.0	2.539	3.489	6.8	21.1
8 19	19 43.92	-31 27.5	2.113	2.997	11.2	20.0	8 19	19 45.73	-30 9.6	2.618	3.501	9.4	21.3
8 29	19 39.38	-30 50.0	2.202	3.001	13.8	20.2	8 29	19 41.08	-29 58.6	2.721	3.513	11.6	21.5
154339	2002 <i>WM</i>		7 22.2 261°76	5°8/25.8	18		165097	2000 <i>GB</i> ₁₂₉		7 22.2 219°66	1°8/23.2	18	
6 20	20 31.11	-1 22.0	1.948	2.773	14.7	20.1	6 20	20 29.43	-13 49.7	2.112	2.981	12.0	20.6
6 30	20 25.58	-1 48.6	1.845	2.747	11.9	19.8	6 30	20 24.02	-14 0.1	2.036	2.977	8.9	20.4
7 10	20 17.99	-2 37.4	1.763	2.721	8.9	19.6	7 10	20 16.90	-14 19.3	1.983	2.973	5.4	20.2
7 20	20 8.89	-3 48.3	1.706	2.694	6.4	19.4	7 20	20 8.67	-14 45.3	1.957	2.969	2.2	20.0
7 30	19 59.12	-5 18.6	1.676	2.666	6.1	19.3	7 30	20 0.16	-15 15.5	1.959	2.965	3.3	20.0
8 9	19 49.72	-7 2.8	1.674	2.638	8.6	19.4	8 9	19 52.26	-15 47.0	1.988	2.960	6.8	20.3
8 19	19 41.66	-8 53.9	1.698	2.608	12.1	19.6	8 19	19 45.75	-16 17.2	2.043	2.955	10.2	20.5
8 29	19 35.79	-10 44.8	1.746	2.578	15.5	19.7	8 29	19 41.23	-16 44.1	2.120	2.951	13.2	20.6
36874	2000 <i>SF</i> ₁₅₁		7 22.2 259°98	0°9/21.8	18		224280	2005 <i>TZ</i> ₅₆		7 22.2 186°38	0°2/22.2	17	
6 20	20 31.68	-21 0.6	1.788	2.676	13.0	18.7	6 20	20 32.04	-18 14.5	1.755	2.638	13.4	21.4
6 30	20 26.01	-21 26.0	1.712	2.667	9.4	18.4	6 30	20 26.20	-18 39.1	1.687	2.638	9.7	21.2
7 10	20 18.18	-21 56.1	1.660	2.657	5.3	18.2	7 10	20 18.25	-19 10.6	1.642	2.638	5.5	20.9
7 20	20 8.90	-22 27.0	1.632	2.648	1.2	17.8	7 20	20 8.94	-19 45.6	1.622	2.638	1.0	20.6
7 30	19 59.22	-22 54.6	1.632	2.638	3.8	18.0	7 30	19 59.32	-20 19.8	1.630	2.637	3.5	20.8
8 9	19 50.28	-23 15.7	1.658	2.628	8.1	18.3	8 9	19 50.51	-20 49.8	1.664	2.636	7.9	21.1
8 19	19 43.09	-23 28.8	1.708	2.617	12.1	18.5	8 19	19 43.48	-21 13.6	1.722	2.635	11.8	21.3
8 29	19 38.40	-23 33.6	1.780	2.607	15.4	18.7	8 29	19 38.91	-21 30.0	1.802	2.633	15.1	21.5
49084	1998 <i>RU</i> ₆₅		7 22.2 310°14	0°8/21.9	18		514943	2008 <i>WN</i> ₅		7 22.2 268°98	2°3/20.9	18	
6 20	20 30.94	-20 52.0	1.326	2.229	15.6	19.0	6 20	20 32.24	-24 15.2	1.936	2.824	12.2	22.0
6 30	20 26.18	-21 7.9	1.247	2.208	11.4	18.7	6 30	20 26.48	-24 58.0	1.848	2.802	8.9	21.8
7 10	20 18.61	-21 30.0	1.188	2.188	6.5	18.4	7 10	20 18.53	-25 43.8	1.784	2.781	5.2	21.5
7 20	20 9.02	-21 54.3	1.152	2.167	1.3	18.0	7 20	20 9.02	-26 27.9	1.746	2.759	2.3	21.3
7 30	19 58.72	-22 15.6	1.140	2.147	4.6	18.1	7 30	19 58.95	-27 5.2	1.736	2.736	4.6	21.4
8 9	19 49.29	-22 30.0	1.152	2.128	10.1	18.4	8 9	19 49.47	-27 32.2	1.752	2.713	8.5	21.6
8 19	19 42.09	-22 35.7	1.186	2.109	15.1	18.6	8 19	19 41.62	-27 47.5	1.793	2.690	12.2	21.8
8 29	19 38.12	-22 32.4	1.238	2.091	19.3	18.8	8 29	19 36.22	-27 51.3	1.855	2.667	15.5	21.9
264412	2000 <i>JS</i> ₃₄		7 22.2 110°88	2°7/20.9	17		513309	2007 <i>DV</i> ₁₅		7 22.2 187°90	4°7/19.4	18	
6 20	20 34.50	-25 8.6	1.704	2.594	13.4	20.8	6 20	20 34.05	-36 20.5	2.733	3.601	9.7	22.1
6 30	20 27.94	-25 54.3	1.652	2.607	9.6	20.6	6 30	20 27.13	-36 49.3	2.667	3.600	7.5	22.0
7 10	20 19.17	-26 40.7	1.624	2.620	5.6	20.4	7 10	20 18.55	-37 10.9	2.626	3.599	5.5	21.8
7 20	20 9.06	-27 22.0	1.621	2.633	2.8	20.2	7 20	20 8.98	-37 21.6	2.613	3.598	4.7	21.8
7 30	19 58.78	-27 53.4	1.646	2.645	4.9	20.4	7 30	19 59.26	-37 18.9	2.628	3.596	5.7	21.8
8 9	19 49.55	-28 12.3	1.696	2.657	8.8	20.7	8 9	19 50.27	-37 2.2	2.670	3.594	7.7	22.0
8 19	19 42.34	-28 18.6	1.771	2.668	12.3	20.9	8 19	19 42.75	-36 32.7	2.737	3.591	9.9	22.1
8 29	19 37.81	-28 13.6	1.866	2.680	15.4	21.1	8 29	19 37.25	-35 52.8	2.827	3.589	12.0	22.3
116232	2003 <i>YW</i> ₅		7 22.2 334°85	1°3/22.9	17		61975	2000 <i>RJ</i> ₂₇		7 22.2 60°43	3°9/24.1	18	
6 20	20 28.80	-14 37.9	1.801	2.681	13.3	19.9	6 20	20 28.82	-9 4.8	2.095	2.951	12.6	18.8
6 30	20 23.81	-15 7.5	1.731	2.679	9.8	19.7	6 30	20 23.51	-8 46.6	2.025	2.953	9.7	18.6
7 10	20 16.87	-15 47.7	1.684	2.678	5.8	19.4	7 10	20 16.58	-8 39.4	1.978	2.955	6.6	18.4
7 20	20 8.66	-16 35.2	1.662	2.676	1.8	19.2	7 20	20 8.63	-8 43.0	1.956	2.957	4.2	18.3
7 30	20 0.13	-17 26.0	1.668	2.675	3.4	19.3	7 30	20 0.48	-8 56.0	1.962	2.959	4.5	18.3
8 9	19 52.31	-18 15.6	1.699	2.674	7.5	19.5	8 9	19 52.97	-9 16.0	1.994	2.962	7.2	18.5
8 19	19 46.10	-19 0.6	1.756	2.673	11.3	19.8	8 19	19 46.83	-9 40.5	2.052	2.964	10.2	18.7
8 29	19 42.17	-19 38.8	1.834	2.672	14.6	20.0	8 29	19 42.62	-10 6.6	2.132	2.966	13.0	18.9
31946	Sahilabbi		7 22.2 65°58	6°8/19.4	18		166105	2002 <i>CX</i> ₁₆₉		7 22.2 150°53	0°1/22.2	17	
6 20	20 36.35	-31 11.1	1.185	2.091	16.8	18.7	6 20	20 32.91	-17 6.5	1.493	2.382	15.0	19.8
6 30	20 30.17	-32 32.7	1.144	2.103	12.5	18.5	6 30	20 27.11	-17 54.9	1.431	2.385	10.9	19.5
7 10	20 20.76	-33 48.7	1.124	2.115	8.6	18.3	7 10	20 18.89	-18 53.9	1.391	2.389	6.2	19.3
7 20	20 9.36	-34 48.7	1.127	2.127	6.8	18.2	7 20	20 9.08	-19 58.1	1.376	2.392	1.1	19.0
7 30	19 57.75	-35 24.5	1.154	2.139	8.9	18.4	7 30	19 58.89	-21 1.2	1.388	2.395	4.0	19.2
8 9	19 47.76	-35 33.9	1.202	2.151	12.7	18.6	8 9	19 49.67	-21 57.6	1.425	2.398	8.8	19.5
8 19	19 40.75	-35 19.8	1.271	2.164	16.5	18.9	8 19	19 42.51	-22 43.9	1.485	2.400	13.2	19.7
8 29	19 37.45	-34 47.3	1.358	2.176	19.8	19.1	8 29	19 38.19	-23 18.7	1.566	2.402	16.8	20.0
56559	2000 <i>JN</i> ₃		7 22.2 121°95	14°5/ 2.5	18		484882	2009 <i>QQ</i> ₃₁		7 22.2 312°06</			

EPHEMERIDES

7 22.2

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
368528	2003 <i>WA</i> ₄₇		7 22.2 288°51	4°0/20.5	17		189147	2002 <i>GS</i> ₁₄₁		7 22.2 55°94	8°2/27.5	18	
6 20	20 33.60	-26 49.4	1.391	2.293	15.1	21.1	6 20	20 27.20	+ 4 24.0	2.134	2.929	14.5	20.1
6 30	20 28.12	-27 40.0	1.318	2.278	11.1	20.8	6 30	20 22.26	+ 5 0.1	2.077	2.944	12.3	20.0
7 10	20 19.72	-28 32.1	1.266	2.263	6.8	20.5	7 10	20 15.85	+ 5 16.3	2.041	2.959	10.2	19.9
7 20	20 9.26	-29 18.3	1.239	2.248	4.1	20.3	7 20	20 8.54	+ 5 11.2	2.027	2.974	8.6	19.8
7 30	19 58.15	-29 51.5	1.236	2.233	6.5	20.4	7 30	20 1.10	+ 4 45.6	2.039	2.990	8.2	19.8
8 9	19 48.02	-30 7.6	1.257	2.218	11.0	20.6	8 9	19 54.30	+ 4 2.4	2.075	3.006	9.2	19.9
8 19	19 40.25	-30 6.2	1.299	2.204	15.4	20.8	8 19	19 48.82	+ 3 6.0	2.135	3.021	11.0	20.0
8 29	19 35.82	-29 49.5	1.360	2.189	19.2	21.0	8 29	19 45.16	+ 2 1.7	2.217	3.037	13.0	20.2
519930	2013 <i>RS</i> ₁₀₅		7 22.2 213°83	0°9/22.6	17		146801	2001 <i>YS</i> ₄₆		7 22.2 49°59	2°3/23.2	18	
6 20	20 32.85	-16 53.0	1.863	2.740	13.0	22.4	6 20	20 30.40	-14 21.0	1.952	2.825	12.7	19.6
6 30	20 26.73	-17 5.5	1.787	2.734	9.6	22.2	6 30	20 24.71	-14 1.3	1.890	2.833	9.4	19.4
7 10	20 18.55	-17 25.3	1.734	2.728	5.6	21.9	7 10	20 17.28	-13 49.1	1.850	2.840	5.8	19.2
7 20	20 9.01	-17 49.5	1.707	2.722	1.4	21.6	7 20	20 8.80	-13 43.4	1.837	2.848	2.6	19.0
7 30	19 59.12	-18 15.1	1.708	2.715	3.4	21.8	7 30	20 0.18	-13 42.7	1.851	2.855	3.6	19.1
8 9	19 49.95	-18 38.9	1.736	2.708	7.6	22.0	8 9	19 52.34	-13 45.4	1.891	2.863	7.1	19.3
8 19	19 42.45	-18 59.0	1.789	2.700	11.5	22.2	8 19	19 46.05	-13 49.7	1.957	2.872	10.5	19.5
8 29	19 37.33	-19 13.9	1.863	2.692	14.8	22.4	8 29	19 41.87	-13 54.0	2.044	2.880	13.4	19.7
447081	2004 <i>TL</i> ₃₆		7 22.2 341°40	5°0/25.1	18		478320	2011 <i>WL</i> ₈₆		7 22.2 225°95	1°1/22.9	18	
6 20	20 26.40	- 4 54.0	2.103	2.947	13.0	21.2	6 20	20 28.92	-15 33.9	2.389	3.259	10.8	22.4
6 30	20 21.82	- 4 43.7	2.028	2.944	10.4	21.0	6 30	20 23.53	-15 45.1	2.309	3.253	7.9	22.2
7 10	20 15.66	- 4 48.1	1.975	2.940	7.6	20.9	7 10	20 16.61	-16 2.7	2.254	3.246	4.7	22.0
7 20	20 8.48	- 5 7.0	1.946	2.938	5.4	20.7	7 20	20 8.69	-16 25.1	2.226	3.239	1.5	21.8
7 30	20 1.04	- 5 38.8	1.945	2.935	5.4	20.7	7 30	20 0.51	-16 49.7	2.226	3.232	2.8	21.9
8 9	19 54.16	- 6 20.7	1.969	2.932	7.5	20.8	8 9	19 52.86	-17 14.4	2.254	3.225	6.2	22.1
8 19	19 48.57	- 7 8.9	2.018	2.930	10.3	21.0	8 19	19 46.44	-17 37.0	2.308	3.218	9.3	22.3
8 29	19 44.83	- 7 59.4	2.090	2.928	13.1	21.2	8 29	19 41.80	-17 56.2	2.386	3.210	12.1	22.4
277431	2005 <i>UF</i> ₃₈₀		7 22.2 134°05	5°9/18.6	17		234326	2001 <i>DP</i> ₆₄		7 22.2 158°59	4°2/25.0	18	
6 20	20 36.71	-35 20.4	2.126	3.001	11.7	21.6	6 20	20 29.20	- 5 23.4	2.138	2.978	13.0	20.4
6 30	20 29.44	-36 34.4	2.078	3.015	9.0	21.5	6 30	20 23.80	- 5 42.8	2.066	2.983	10.2	20.2
7 10	20 20.02	-37 41.0	2.056	3.029	6.7	21.4	7 10	20 16.78	- 6 17.5	2.017	2.987	7.1	20.0
7 20	20 9.27	-38 33.7	2.060	3.042	5.9	21.4	7 20	20 8.73	- 7 6.2	1.994	2.991	4.6	19.9
7 30	19 58.31	-39 7.9	2.091	3.055	7.2	21.5	7 30	20 0.43	- 8 5.9	1.999	2.995	4.6	19.9
8 9	19 48.32	-39 22.1	2.149	3.067	9.6	21.6	8 9	19 52.73	- 9 12.5	2.031	2.998	7.1	20.0
8 19	19 40.24	-39 17.7	2.230	3.078	12.1	21.8	8 19	19 46.36	-10 21.4	2.089	3.000	10.1	20.2
8 29	19 34.72	-38 58.1	2.332	3.089	14.3	22.0	8 29	19 41.91	-11 28.5	2.171	3.003	12.9	20.4
284587	2007 <i>TD</i> ₁₈₆		7 22.2 336°29	7°4/25.9	18		235859	2005 <i>AE</i> ₃₉		7 22.2 93°05	1°4/21.5	17	
6 20	20 24.98	- 2 14.1	1.436	2.294	17.3	19.9	6 20	20 32.68	-23 10.3	1.856	2.743	12.6	20.3
6 30	20 21.48	- 2 1.9	1.359	2.280	14.1	19.7	6 30	20 26.49	-23 29.6	1.799	2.753	9.0	20.1
7 10	20 15.78	- 2 13.3	1.301	2.266	10.7	19.4	7 10	20 18.34	-23 50.4	1.765	2.763	5.1	19.9
7 20	20 8.54	- 2 49.6	1.265	2.253	8.0	19.2	7 20	20 9.01	-24 9.0	1.758	2.772	1.6	19.6
7 30	20 0.79	- 3 49.2	1.252	2.242	7.7	19.2	7 30	19 59.53	-24 22.2	1.777	2.782	3.9	19.8
8 9	19 53.75	- 5 6.5	1.262	2.231	10.2	19.3	8 9	19 50.97	-24 28.0	1.824	2.791	7.7	20.1
8 19	19 48.46	- 6 34.4	1.295	2.222	13.8	19.5	8 19	19 44.19	-24 25.9	1.895	2.800	11.3	20.3
8 29	19 45.75	- 8 5.0	1.347	2.213	17.3	19.7	8 29	19 39.81	-24 16.7	1.987	2.809	14.3	20.5
198018	2004 <i>RC</i> ₂₁₈		7 22.2 359°70	1°9/22.5	18		310012	2009 <i>KL</i> ₁₇		7 22.2 86°90	5°1/25.2	16	
6 20	20 32.30	-19 52.1	1.121	2.029	17.4	18.6	6 20	20 27.98	- 4 32.1	2.123	2.962	13.1	21.1
6 30	20 27.10	-18 44.5	1.062	2.025	12.8	18.3	6 30	20 22.90	- 4 19.5	2.056	2.968	10.4	20.9
7 10	20 19.01	-17 38.7	1.024	2.023	7.5	18.0	7 10	20 16.26	- 4 21.5	2.010	2.974	7.6	20.7
7 20	20 9.11	-16 35.4	1.007	2.022	2.4	17.7	7 20	20 8.64	- 4 37.9	1.990	2.979	5.5	20.6
7 30	19 58.96	-15 35.9	1.014	2.022	4.9	17.9	7 30	20 0.83	- 5 7.2	1.996	2.985	5.4	20.6
8 9	19 50.18	-14 41.3	1.044	2.024	10.2	18.2	8 9	19 53.63	- 5 46.5	2.029	2.990	7.5	20.8
8 19	19 44.01	-13 52.9	1.095	2.028	15.1	18.5	8 19	19 47.76	- 6 32.0	2.087	2.996	10.2	20.9
8 29	19 41.19	-13 10.5	1.165	2.033	19.3	18.7	8 29	19 43.76	- 7 19.9	2.168	3.002	12.8	21.1
57427	2001 <i>SD</i> ₂₈		7 22.2 187°59	5°2/18.7	18		106590	2000 <i>WQ</i> ₁₀₇		7 22.2 186°56	5°6/18.1	18	
6 20	20 34.33	-37 44.8	2.770	3.635	9.6	20.8	6 20	20 32.98	-38 18.2	2.722	3.588	9.7	20.2
6 30	20 27.41	-38 30.7	2.706	3.634	7.6	20.7	6 30	20 26.54	-39 16.0	2.660	3.588	7.7	20.0
7 10	20 18.77	-39 9.1	2.667	3.633	5.8	20.6	7 10	20 18.35	-40 6.4	2.624	3.587	6.1	19.9
7 20	20 9.05	-39 35.8	2.655	3.631	5.2	20.6	7 20	20 9.03	-40 44.7	2.615	3.586	5.6	19.9
7 30	19 59.13	-39 47.7	2.672	3.629	6.2	20.6	7 30	19 59.47	-41 7.4	2.634	3.585	6.6	20.0
8 9	19 49.90	-39 43.8	2.715	3.626	8.1	20.7	8 9	19 50.57	-41 13.4	2.678	3.583	8.5	20.1
8 19	19 42.13	-39 25.2	2.783	3.623	10.2	20.9	8 19	19 43.13	-41 3.4	2.747	3.580	10.5	20.2
8 29	19 36.42	-38 54.4	2.873	3.619	12.1	21.0	8 29	19 37.75	-40 40.0	2.837	3.578	12.4	20.4
379170	2009 <i>QJ</i> ₅₅		7 22.2 336°32	2°5/21.2	17		182960	2002 <i>JT</i> ₆₈		7 22.2 78°21	4°7/19.2	18	
6 20	20 30.41	-23 41.1	1.253	2.163	15.8	21.0	6 20	20 31.44	-32 12.7	2.212	3.096	11.0	20.0
6 30	20 25.82	-24 14.6	1.188	2.153	11.5	20.7	6 30	20 25.52	-33 16.9	2.165	3.112	8.2	19.8
7 10	20 18.39	-24 52.1	1.144	2.144	6.7	20.5	7 10	20 17.77	-34 16.3	2.144	3.127	5.7	19.7
7 20	20 9.03	-25 27.5	1.123	2.136	2.6	20.2	7 20	20 8.93	-35 5.7	2.149	3.143	4.7	19.7
7 30	19 59.17	-25 54.6	1.125	2.129	5.5	20.3	7 30	19 59.93	-35 40.9	2.181	3.158	6.0	19.8
8 9	19 50.40	-26 9.5	1.150	2.123	10.5	20.6	8 9	19 51.75	-36 0.2	2.240	3.173	8.5	19.9
8 19	19 44.04	-26 11.0	1.196	2.117	15.2	20.9	8 19	19 45.19	-36 4.2	2.322	3.189	11.0	20.1
8 29	19 40.98	-26 0.3	1.261	2.112	19.2	21.1	8 29	19 40.84	-35 54.7	2.426	3.204	13.3	20.3
186998	2004 <i>TW</i> ₈₇		7 22.2 20°52	0°5/22.4	18		150502	2000 <i></i>					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
521248	2015 <i>HY</i> ₁₉₀		7 22.2 133°23	6°3/25.4	17		445249	2009 <i>QX</i> ₁₈		7 22.2 359°39	12°3/	2.6	17
6 20	20 31.09	- 2 42.0	1.992	2.821	14.2	21.8	6 20	20 22.18	+14 16.7	1.477	2.249	20.9	19.8
6 30	20 25.19	- 2 9.4	1.927	2.830	11.5	21.6	6 30	20 19.40	+13 51.1	1.405	2.244	18.6	19.6
7 10	20 17.58	- 1 52.8	1.884	2.838	8.7	21.4	7 10	20 14.59	+12 44.6	1.349	2.241	16.1	19.5
7 20	20 8.91	- 1 53.0	1.866	2.846	6.7	21.3	7 20	20 8.42	+10 54.4	1.310	2.240	13.8	19.3
7 30	20 0.04	- 2 9.2	1.874	2.853	6.6	21.3	7 30	20 1.89	+ 8 22.8	1.294	2.240	12.4	19.3
8 9	19 51.88	- 2 38.8	1.908	2.861	8.5	21.5	8 9	19 56.09	+ 5 18.9	1.301	2.242	12.7	19.3
8 19	19 45.20	- 3 17.9	1.966	2.868	11.1	21.6	8 19	19 51.98	+ 1 56.0	1.332	2.246	14.4	19.4
8 29	19 40.57	- 4 2.3	2.047	2.874	13.7	21.8	8 29	19 50.28	- 1 30.6	1.386	2.251	17.0	19.6
377792	2006 <i>AY</i> ₂₁		7 22.2 190°18	6°1/18.4	18		314358	2005 <i>TU</i> ₁₆₂		7 22.2 116°90	4°9/19.4	18	
6 20	20 36.37	-36 44.6	2.233	3.105	11.4	21.3	6 20	20 32.63	-34 12.5	2.270	3.150	10.9	20.3
6 30	20 29.30	-37 51.3	2.171	3.104	8.9	21.1	6 30	20 26.41	-34 56.0	2.212	3.155	8.3	20.1
7 10	20 20.05	-38 50.7	2.133	3.102	6.8	21.0	7 10	20 18.31	-35 33.4	2.179	3.159	5.9	20.0
7 20	20 9.38	-39 36.4	2.122	3.100	6.2	21.0	7 20	20 9.08	-35 59.9	2.172	3.163	4.9	19.9
7 30	19 58.36	-40 3.8	2.138	3.097	7.4	21.0	7 30	19 59.66	-36 12.1	2.192	3.166	6.2	20.0
8 9	19 48.18	-40 11.3	2.180	3.093	9.7	21.2	8 9	19 51.06	-36 8.8	2.238	3.170	8.6	20.1
8 19	19 39.81	-40 0.1	2.245	3.089	12.2	21.3	8 19	19 44.11	-35 51.1	2.308	3.174	11.1	20.3
8 29	19 33.97	-39 33.6	2.332	3.085	14.4	21.5	8 29	19 39.41	-35 21.4	2.400	3.178	13.4	20.5
281708	2008 <i>WU</i> ₉₈		7 22.2 304°03	4°2/20.3	18		254344	2004 <i>TE</i> ₃		7 22.2 248°60	5°0/19.6	17	
6 20	20 32.52	-28 15.9	1.559	2.458	13.9	20.0	6 20	20 36.60	-37 53.4	2.787	3.648	9.7	21.0
6 30	20 27.26	-28 58.6	1.473	2.431	10.4	19.7	6 30	20 29.07	-38 11.2	2.704	3.632	7.6	20.8
7 10	20 19.27	-29 41.3	1.409	2.404	6.6	19.4	7 10	20 19.76	-38 20.6	2.647	3.615	5.8	20.7
7 20	20 9.29	-30 17.4	1.369	2.377	4.2	19.2	7 20	20 9.35	-38 17.8	2.617	3.598	5.0	20.6
7 30	19 58.56	-30 40.7	1.355	2.350	6.4	19.3	7 30	19 58.72	-38 0.3	2.616	3.581	5.9	20.6
8 9	19 48.58	-30 47.5	1.364	2.323	10.6	19.5	8 9	19 48.81	-37 27.8	2.643	3.564	7.9	20.7
8 19	19 40.69	-30 37.3	1.396	2.297	14.8	19.7	8 19	19 40.41	-36 42.0	2.695	3.546	10.2	20.9
8 29	19 35.89	-30 12.5	1.447	2.271	18.5	19.8	8 29	19 34.12	-35 45.7	2.770	3.528	12.3	21.0
21329	1997 <i>AP</i> ₁₅		7 22.2 50°40	2°1/21.7	18		176249	2001 <i>QV</i> ₂₅₇		7 22.2 304°37	5°2/25.3	18	
6 20	20 36.89	-25 3.6	1.207	2.111	16.8	17.8	6 20	20 26.91	- 4 31.0	1.851	2.700	14.4	19.7
6 30	20 30.11	-25 2.0	1.167	2.128	12.1	17.6	6 30	20 22.62	- 4 40.7	1.756	2.675	11.5	19.5
7 10	20 20.54	-24 59.6	1.147	2.146	6.9	17.4	7 10	20 16.39	- 5 9.1	1.682	2.651	8.3	19.2
7 20	20 9.43	-24 51.9	1.150	2.164	2.3	17.1	7 20	20 8.78	- 5 56.1	1.632	2.627	5.7	19.0
7 30	19 58.40	-24 36.0	1.178	2.183	5.1	17.4	7 30	20 0.61	- 6 59.7	1.608	2.603	5.7	19.0
8 9	19 49.00	-24 11.3	1.230	2.203	10.0	17.7	8 9	19 52.89	- 8 15.1	1.609	2.579	8.4	19.1
8 19	19 42.33	-23 39.6	1.304	2.222	14.3	18.0	8 19	19 46.56	- 9 36.8	1.636	2.555	11.9	19.2
8 29	19 38.98	-23 2.9	1.396	2.242	18.0	18.3	8 29	19 42.38	-10 59.1	1.684	2.532	15.3	19.4
262587	2006 <i>VD</i> ₉₅		7 22.2 204°90	0°8/21.8	18		466063	2011 <i>UG</i> ₁₉₁		7 22.2 181°16	3°7/23.7	17	
6 20	20 33.41	-20 9.7	1.888	2.770	12.7	21.2	6 20	20 33.71	-10 52.8	1.496	2.368	15.9	21.8
6 30	20 27.20	-20 46.0	1.814	2.766	9.2	21.0	6 30	20 27.68	-10 49.1	1.429	2.369	12.1	21.6
7 10	20 18.89	-21 27.7	1.764	2.761	5.2	20.8	7 10	20 19.26	-10 59.7	1.383	2.369	7.8	21.3
7 20	20 9.19	-22 10.8	1.740	2.755	1.1	20.5	7 20	20 9.29	-11 23.2	1.362	2.369	4.1	21.1
7 30	19 59.11	-22 50.7	1.744	2.749	3.7	20.7	7 30	19 58.95	-11 56.4	1.365	2.369	4.9	21.2
8 9	19 49.75	-23 23.9	1.775	2.743	7.8	20.9	8 9	19 49.53	-12 35.0	1.395	2.368	8.9	21.4
8 19	19 42.09	-23 48.5	1.831	2.736	11.6	21.1	8 19	19 42.11	-13 15.1	1.448	2.367	13.1	21.6
8 29	19 36.84	-24 4.1	1.909	2.728	14.9	21.3	8 29	19 37.47	-13 53.0	1.521	2.366	16.8	21.9
216377	2008 <i>BE</i> ₂₇		7 22.2 10°97	0°6/22.5	18		501670	2014 <i>TE</i> ₁₆		7 22.2 234°28	2°8/23.4	17	
6 20	20 28.99	-17 29.9	1.813	2.699	12.9	20.6	6 20	20 34.38	-12 36.2	1.682	2.552	14.6	22.4
6 30	20 23.94	-17 42.9	1.748	2.700	9.4	20.4	6 30	20 28.14	-12 35.4	1.599	2.539	11.0	22.1
7 10	20 16.99	-18 2.9	1.705	2.701	5.4	20.2	7 10	20 19.56	-12 46.1	1.537	2.526	7.0	21.9
7 20	20 8.84	-18 26.9	1.688	2.703	1.3	19.9	7 20	20 9.36	-13 6.8	1.501	2.511	3.2	21.6
7 30	20 0.44	-18 51.9	1.698	2.705	3.3	20.0	7 30	19 58.62	-13 34.6	1.491	2.496	4.3	21.6
8 9	19 52.81	-19 14.8	1.733	2.708	7.4	20.3	8 9	19 48.57	-14 6.0	1.508	2.481	8.5	21.9
8 19	19 46.81	-19 33.6	1.793	2.710	11.1	20.5	8 19	19 40.31	-14 37.9	1.550	2.464	12.7	22.1
8 29	19 43.08	-19 47.0	1.875	2.714	14.3	20.7	8 29	19 34.67	-15 7.4	1.612	2.447	16.4	22.3
178561	1999 <i>VQ</i> ₁₅₉		7 22.2 250°17	1°7/21.5	18		395085	2009 <i>HA</i> ₉₃		7 22.2 108°50	1°9/21.0	18	
6 20	20 34.94	-22 57.8	1.796	2.681	13.1	21.1	6 20	20 30.77	-23 45.5	2.200	3.084	11.1	21.2
6 30	20 28.57	-23 27.7	1.710	2.663	9.5	20.8	6 30	20 24.96	-24 31.5	2.144	3.097	7.9	21.1
7 10	20 19.82	-24 0.9	1.648	2.645	5.5	20.5	7 10	20 17.46	-25 19.0	2.113	3.109	4.5	20.9
7 20	20 9.39	-24 32.9	1.612	2.626	1.8	20.3	7 20	20 8.94	-26 3.9	2.109	3.121	1.9	20.7
7 30	19 58.39	-24 59.0	1.602	2.606	4.3	20.4	7 30	20 0.24	-26 42.2	2.133	3.133	3.8	20.9
8 9	19 48.08	-25 16.0	1.620	2.585	8.7	20.6	8 9	19 52.27	-27 11.5	2.184	3.145	7.1	21.1
8 19	19 39.57	-25 22.8	1.662	2.564	12.7	20.8	8 19	19 45.78	-27 30.8	2.261	3.156	10.1	21.3
8 29	19 33.74	-25 19.9	1.725	2.543	16.3	21.0	8 29	19 41.34	-27 40.2	2.360	3.167	12.7	21.5
267210	2000 <i>SA</i> ₃₂₁		7 22.2 348°09	7°4/26.5	18		440456	2005 <i>SR</i> ₁₄₉		7 22.2 313°55	0°8/21.8	18	
6 20	20 24.91	- 1 26.0	1.289	2.152	18.6	19.8	6 20	20 28.61	-20 39.7	1.897	2.787	12.3	21.2
6 30	20 21.61	- 1 37.3	1.220	2.144	15.1	19.5	6 30	20 23.79	-21 6.5	1.817	2.773	8.9	20.9
7 10	20 15.96	- 2 17.4	1.169	2.137	11.4	19.3	7 10	20 17.00	-21 38.3	1.761	2.759	5.0	20.7
7 20	20 8.69	- 3 26.4	1.139	2.131	8.2	19.1	7 20	20 8.88	-22 11.7	1.730	2.745	1.1	20.3
7 30	20 0.93	- 5 0.6	1.132	2.126	7.7	19.1	7 30	20 0.36	-22 42.7	1.726	2.732	3.6	20.5
8 9	19 53.98	- 6 51.5	1.148	2.122	10.3	19.2	8 9	19 52.49	-23 8.1	1.748	2.719	7.7	20.7
8 19	19 48.96	- 8 49.3	1.186	2.120	14.2	19.4	8 19	19 46.16	-23 26.1	1.795	2.707	11.4	20.9
8 29	19 46.73	-10 44.3	1.245	2.118	18.0	19.6	8 29	19 42.10	-23 35.9	1.863	2.695	14.7	21.1
169874	2002 <i>RN</i> ₁₁₆		7 22.2 269°89	0°1/22.2	18		2340						

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
293936	2007 <i>TM</i> ₁₁		7 22.2 265°48	3°1/20.5	18		345040	2005 <i>ER</i> ₂₂₉		7 22.2 296°30	2°3/21.2	18	
6 20	20 32.60	-27 30.1	2.110	2.995	11.4	21.2	6 20	20 31.76	-24 44.0	1.747	2.640	13.0	21.1
6 30	20 26.65	-28 10.6	2.024	2.975	8.4	21.0	6 30	20 26.24	-25 10.4	1.672	2.628	9.4	20.8
7 10	20 18.64	-28 50.8	1.962	2.955	5.2	20.7	7 10	20 18.46	-25 38.2	1.620	2.617	5.5	20.6
7 20	20 9.20	-29 26.0	1.927	2.934	3.1	20.6	7 20	20 9.18	-26 2.8	1.593	2.605	2.3	20.4
7 30	19 59.27	-29 51.9	1.919	2.914	4.9	20.7	7 30	19 59.49	-26 20.2	1.592	2.594	4.6	20.5
8 9	19 49.95	-30 5.8	1.938	2.892	8.3	20.8	8 9	19 50.59	-26 27.5	1.617	2.583	8.7	20.7
8 19	19 42.19	-30 7.1	1.983	2.871	11.7	21.0	8 19	19 43.53	-26 24.3	1.666	2.572	12.5	20.9
8 29	19 36.75	-29 56.9	2.048	2.849	14.6	21.2	8 29	19 39.06	-26 11.4	1.736	2.561	15.9	21.1
434260	2003 <i>UZ</i> ₂₀₁		7 22.2 327°38	9°2/24.9	18		273877	2007 <i>HU</i> ₅		7 22.2 97°01	1°2/22.9	17	
6 20	20 25.66	-2 49.5	1.317	2.182	18.1	19.4	6 20	20 32.33	-14 39.6	1.771	2.646	13.7	21.0
6 30	20 22.36	-1 48.9	1.228	2.151	15.1	19.1	6 30	20 26.26	-15 10.9	1.719	2.665	10.0	20.9
7 10	20 16.55	-1 7.7	1.157	2.120	11.9	18.9	7 10	20 18.26	-15 51.9	1.690	2.683	5.9	20.6
7 20	20 8.86	-0 50.3	1.106	2.090	9.6	18.7	7 20	20 9.12	-16 38.9	1.687	2.701	1.8	20.4
7 30	20 0.36	-0 59.1	1.078	2.062	9.6	18.6	7 30	19 59.85	-17 27.7	1.712	2.719	3.4	20.6
8 9	19 52.42	-1 32.5	1.070	2.034	12.2	18.6	8 9	19 51.49	-18 14.1	1.764	2.737	7.4	20.9
8 19	19 46.33	-2 25.4	1.083	2.008	16.0	18.8	8 19	19 44.89	-18 55.2	1.840	2.754	11.1	21.1
8 29	19 43.15	-3 30.8	1.114	1.984	19.9	18.9	8 29	19 40.63	-19 29.1	1.939	2.771	14.2	21.4
183935	2004 <i>DW</i> ₁₉		7 22.2 33°99	1°1/21.8	17		254170	2004 <i>QX</i> ₁₄		7 22.2 229°12	6°3/18.8	18	
6 20	20 31.39	-20 45.1	1.227	2.133	16.3	19.6	6 20	20 38.68	-42 49.6	2.773	3.621	10.1	20.6
6 30	20 26.31	-21 17.3	1.179	2.142	11.8	19.3	6 30	20 30.62	-43 14.8	2.702	3.612	8.3	20.4
7 10	20 18.56	-21 55.9	1.152	2.153	6.6	19.1	7 10	20 20.66	-43 28.6	2.655	3.602	6.8	20.3
7 20	20 9.17	-22 35.2	1.148	2.163	1.5	18.8	7 20	20 9.56	-43 26.9	2.634	3.592	6.3	20.3
7 30	19 59.57	-23 9.4	1.168	2.175	4.7	19.0	7 30	19 58.32	-43 7.0	2.641	3.581	7.1	20.3
8 9	19 51.25	-23 34.4	1.211	2.187	9.7	19.4	8 9	19 47.95	-42 28.9	2.675	3.571	8.8	20.4
8 19	19 45.36	-23 48.7	1.276	2.199	14.2	19.6	8 19	19 39.31	-41 35.1	2.733	3.559	10.8	20.5
8 29	19 42.60	-23 52.2	1.360	2.212	18.0	19.9	8 29	19 32.97	-40 29.2	2.814	3.548	12.6	20.6
136947	1998 <i>QS</i> ₁₀₀		7 22.2 306°65	2°2/21.3	18		184821	2005 <i>TY</i> ₁₆₂		7 22.2 346°04	0°6/21.9	18	
6 20	20 30.90	-22 32.2	1.341	2.246	15.3	19.2	6 20	20 28.62	-20 51.9	1.669	2.564	13.3	20.0
6 30	20 26.34	-23 14.0	1.258	2.221	11.2	18.9	6 30	20 23.93	-21 4.0	1.599	2.557	9.6	19.8
7 10	20 18.89	-24 2.9	1.196	2.196	6.5	18.6	7 10	20 17.12	-21 20.6	1.552	2.551	5.5	19.5
7 20	20 9.30	-24 52.9	1.157	2.171	2.3	18.3	7 20	20 8.94	-21 38.2	1.529	2.545	1.1	19.2
7 30	19 58.86	-25 37.1	1.142	2.146	5.4	18.4	7 30	20 0.43	-21 53.5	1.533	2.540	3.7	19.4
8 9	19 49.18	-26 9.8	1.151	2.122	10.6	18.6	8 9	19 52.74	-22 3.8	1.561	2.535	8.1	19.7
8 19	19 41.71	-26 28.5	1.181	2.099	15.6	18.8	8 19	19 46.81	-22 7.8	1.613	2.532	12.1	19.9
8 29	19 37.54	-26 33.2	1.229	2.075	19.9	19.0	8 29	19 43.37	-22 5.0	1.686	2.529	15.5	20.1
355742	2008 <i>HA</i> ₉		7 22.2 83°39	2°5/24.0	16		184247	2004 <i>RZ</i> ₃₃₂		7 22.2 312°32	1°9/21.1	18	
6 20	20 27.93	-10 1.4	2.266	3.123	11.8	21.2	6 20	20 28.31	-23 10.0	1.986	2.878	11.7	19.5
6 30	20 22.97	-10 27.5	2.207	3.139	8.8	21.0	6 30	20 23.57	-23 55.2	1.906	2.863	8.5	19.3
7 10	20 16.19	-11 4.6	2.172	3.155	5.7	20.8	7 10	20 16.90	-24 44.1	1.850	2.848	4.9	19.0
7 20	20 8.72	-11 50.6	2.164	3.171	2.9	20.7	7 20	20 8.91	-25 32.5	1.820	2.834	2.0	18.8
7 30	20 1.12	-12 42.4	2.184	3.187	3.3	20.7	7 30	20 0.50	-26 15.6	1.817	2.819	4.1	18.9
8 9	19 54.15	-13 36.2	2.232	3.203	6.2	21.0	8 9	19 52.68	-26 49.9	1.841	2.805	7.9	19.1
8 19	19 48.45	-14 28.9	2.306	3.219	9.2	21.2	8 19	19 46.37	-27 13.6	1.889	2.792	11.4	19.3
8 29	19 44.52	-15 17.7	2.403	3.235	11.8	21.4	8 29	19 42.27	-27 26.4	1.958	2.779	14.5	19.5
472083	2013 <i>YP</i> ₁₁₅		7 22.2 214°10	0°1/22.2	18		195417	2002 <i>GQ</i> ₄₂		7 22.2 96°69	5°2/19.7	17	
6 20	20 31.48	-18 44.1	2.089	2.967	11.8	22.0	6 20	20 34.60	-31 53.2	1.766	2.655	13.0	20.1
6 30	20 25.65	-19 12.7	2.012	2.961	8.6	21.8	6 30	20 28.22	-32 47.1	1.713	2.662	9.8	19.9
7 10	20 17.97	-19 47.2	1.959	2.955	4.9	21.5	7 10	20 19.51	-33 35.9	1.683	2.670	6.7	19.8
7 20	20 9.07	-20 24.2	1.933	2.948	0.9	21.2	7 20	20 9.37	-34 13.1	1.679	2.677	5.2	19.7
7 30	19 59.84	-21 0.1	1.935	2.941	3.2	21.4	7 30	19 59.01	-34 33.9	1.700	2.684	6.8	19.8
8 9	19 51.23	-21 31.9	1.964	2.934	7.1	21.6	8 9	19 49.72	-34 36.7	1.747	2.690	9.8	20.0
8 19	19 44.08	-21 57.5	2.019	2.926	10.6	21.8	8 19	19 42.50	-34 22.8	1.817	2.697	13.0	20.2
8 29	19 39.07	-22 15.9	2.097	2.918	13.7	22.0	8 29	19 38.03	-33 55.1	1.908	2.704	15.7	20.4
350514	2000 <i>BC</i> ₃₄		7 22.2 292°77	1°4/21.6	17		162149	1998 <i>YQ</i> ₁₁		7 22.2 137°23	5°7/24.4	18	
6 20	20 32.77	-23 8.0	1.805	2.693	12.9	21.6	6 20	20 42.96	-6 22.9	1.608	2.445	16.7	21.2
6 30	20 27.07	-23 22.6	1.710	2.664	9.4	21.3	6 30	20 33.93	-5 54.0	1.554	2.469	13.0	21.0
7 10	20 19.03	-23 39.7	1.638	2.635	5.4	21.0	7 10	20 22.60	-5 41.2	1.522	2.491	9.1	20.8
7 20	20 9.31	-23 55.4	1.592	2.606	1.6	20.7	7 20	20 9.94	-5 44.5	1.516	2.511	6.1	20.7
7 30	19 58.95	-24 5.9	1.572	2.577	4.2	20.8	7 30	19 57.19	-6 2.2	1.537	2.529	6.3	20.7
8 9	19 49.18	-24 8.7	1.579	2.547	8.6	21.0	8 9	19 45.65	-6 30.7	1.586	2.545	9.3	21.0
8 19	19 41.12	-24 2.8	1.610	2.518	12.8	21.2	8 19	19 36.32	-7 5.8	1.660	2.560	12.9	21.2
8 29	19 35.67	-23 48.8	1.662	2.488	16.4	21.4	8 29	19 29.84	-7 43.5	1.755	2.573	16.0	21.4
386314	2008 <i>SW</i> ₆₅		7 22.2 157°04	6°9/18.5	18		427117	2014 <i>UX</i> ₉₄		7 22.2 165°56	0°3/22.1	17	
6 20	20 36.70	-38 18.4	2.030	2.904	12.3	21.3	6 20	20 34.31	-18 27.3	1.648	2.532	14.1	21.6
6 30	20 29.67	-39 20.4	1.976	2.908	9.7	21.1	6 30	20 28.02	-19 6.0	1.584	2.536	10.2	21.4
7 10	20 20.32	-40 12.7	1.945	2.911	7.6	21.0	7 10	20 19.44	-19 52.5	1.542	2.539	5.8	21.1
7 20	20 9.50	-40 48.8	1.940	2.915	6.9	21.0	7 20	20 9.38	-20 42.0	1.527	2.542	1.1	20.8
7 30	19 58.44	-41 4.2	1.961	2.918	8.2	21.1	7 30	19 58.99	-21 29.4	1.538	2.545	3.8	21.0
8 9	19 48.40	-40 58.0	2.008	2.921	10.4	21.2	8 9	19 49.50	-22 10.4	1.576	2.547	8.4	21.3
8 19	19 40.43	-40 32.3	2.077	2.923	12.9	21.4	8 19	19 41.95	-22 42.5	1.638	2.548	12.4	21.5
8 29	19 35.21	-39 51.1	2.166	2.925	15.2	21.5	8 29	19 37.08	-23 5.0	1.721	2.549	15.9	21.8
439316	2012 <i>VB</i> ₉₁		7 22.2 286°78	5°5/24.6	18		393219	2013 <i>EA</i> ₃₁					

EPHEMERIDES

7 22.2

7 22.2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
482383	2012 <i>AZ</i> ₃		7 22.2 154° 93	0° 7/21.7	18		499666	2010 <i>VD</i> ₁₅₀		7 22.2 157° 12	2° 1/21.2	17	
6 20	20 28.31	-20 21.3	2.590	3.467	9.8	21.4	6 20	20 33.51	-22 36.6	1.575	2.468	14.1	21.9
6 30	20 23.06	-21 5.2	2.521	3.471	7.0	21.2	6 30	20 27.61	-23 30.1	1.513	2.470	10.2	21.6
7 10	20 16.39	-21 53.0	2.478	3.474	3.9	21.0	7 10	20 19.30	-24 28.2	1.475	2.473	5.8	21.4
7 20	20 8.81	-22 41.4	2.463	3.478	0.9	20.8	7 20	20 9.41	-25 24.7	1.461	2.475	2.2	21.1
7 30	20 1.02	-23 27.2	2.476	3.481	2.9	21.0	7 30	19 59.15	-26 13.6	1.474	2.476	4.8	21.3
8 9	19 53.74	-24 7.5	2.519	3.484	6.0	21.2	8 9	19 49.86	-26 50.6	1.512	2.478	9.1	21.6
8 19	19 47.63	-24 40.6	2.587	3.487	8.9	21.4	8 19	19 42.61	-27 14.2	1.574	2.479	13.2	21.8
8 29	19 43.19	-25 5.7	2.679	3.489	11.3	21.6	8 29	19 38.18	-27 24.8	1.656	2.480	16.5	22.1
394779	2008 <i>GZ</i> ₁₀₆		7 22.2 39° 84	3° 0/24.1	18		443149	2014 <i>BU</i> ₅₇		7 22.2 213° 97	15° 9/18.9	17	
6 20	20 27.22	-9 47.7	1.959	2.824	13.0	20.2	6 20	21 0.31	-52 6.7	1.196	2.043	20.7	21.0
6 30	20 22.53	-10 8.8	1.896	2.831	9.8	20.0	6 30	20 49.11	-53 16.2	1.147	2.039	18.3	20.8
7 10	20 16.17	-10 43.0	1.855	2.839	6.4	19.8	7 10	20 32.22	-53 54.6	1.114	2.034	16.5	20.7
7 20	20 8.78	-11 28.1	1.840	2.847	3.4	19.6	7 20	20 11.80	-53 45.7	1.101	2.030	15.9	20.6
7 30	20 1.17	-12 20.6	1.852	2.856	3.8	19.7	7 30	19 51.39	-52 41.1	1.109	2.024	16.9	20.7
8 9	19 54.24	-13 16.5	1.891	2.864	6.9	19.9	8 9	19 34.44	-50 46.4	1.137	2.018	19.0	20.8
8 19	19 48.73	-14 11.8	1.954	2.873	10.3	20.1	8 19	19 22.97	-48 15.9	1.183	2.012	21.7	20.9
8 29	19 45.22	-15 3.1	2.041	2.883	13.2	20.3	8 29	19 17.48	-45 26.3	1.245	2.005	24.3	21.1
426100	2012 <i>FM</i> ₁₁		7 22.2 169° 36	3° 4/20.4	17		701	Oriola		7 22.2 84° 97	3° 0/23.8	18	
6 20	20 35.39	-26 0.1	1.735	2.624	13.3	21.1	6 20	20 29.11	-10 59.1	2.141	3.002	12.2	14.0
6 30	20 28.86	-27 6.5	1.674	2.627	9.6	20.8	6 30	20 23.78	-10 48.7	2.072	3.005	9.3	13.8
7 10	20 19.95	-28 14.0	1.636	2.630	5.8	20.6	7 10	20 16.86	-10 48.0	2.026	3.009	6.1	13.6
7 20	20 9.50	-29 16.1	1.624	2.633	3.5	20.5	7 20	20 8.94	-10 56.2	2.007	3.012	3.4	13.5
7 30	19 58.67	-30 6.3	1.640	2.635	5.6	20.6	7 30	20 0.82	-11 11.6	2.014	3.016	3.9	13.5
8 9	19 48.76	-30 41.2	1.682	2.636	9.3	20.9	8 9	19 53.35	-11 32.0	2.049	3.019	6.8	13.7
8 19	19 40.85	-30 59.9	1.747	2.637	12.9	21.1	8 19	19 47.22	-11 54.8	2.109	3.023	9.9	13.9
8 29	19 35.69	-31 4.1	1.833	2.637	16.0	21.3	8 29	19 43.00	-12 17.7	2.193	3.026	12.7	14.1
491632	2012 <i>TZ</i> ₁₅₄		7 22.2 274° 63	0° 8/22.6	18		279823	2000 <i>RD</i> ₈		7 22.2 244° 86	6° 6/20.2	17	
6 20	20 30.34	-16 35.5	1.801	2.683	13.2	21.9	6 20	20 47.35	-37 50.9	1.870	2.733	13.6	20.2
6 30	20 25.10	-16 56.5	1.722	2.672	9.7	21.6	6 30	20 37.75	-38 10.6	1.784	2.713	10.8	20.0
7 10	20 17.80	-17 26.0	1.667	2.662	5.6	21.4	7 10	20 25.13	-38 18.0	1.721	2.692	8.0	19.8
7 20	20 9.11	-18 1.2	1.636	2.651	1.4	21.1	7 20	20 10.52	-38 6.0	1.684	2.670	6.6	19.7
7 30	19 59.99	-18 38.2	1.633	2.641	3.4	21.2	7 30	19 55.43	-37 29.9	1.675	2.648	7.9	19.7
8 9	19 51.55	-19 13.3	1.656	2.630	7.7	21.4	8 9	19 41.55	-36 30.0	1.694	2.624	10.9	19.8
8 19	19 44.73	-19 43.8	1.704	2.619	11.7	21.7	8 19	19 30.22	-35 11.1	1.737	2.600	14.3	20.0
8 29	19 40.28	-20 7.9	1.773	2.609	15.1	21.9	8 29	19 22.32	-33 39.9	1.801	2.575	17.3	20.1
136839	1997 <i>WT</i> ₂₂		7 22.2 130° 14	7° 1/19.9	18		513162	2003 <i>YD</i> ₁₅		7 22.2 238° 31	2° 3/20.7	18	
6 20	20 56.46	-27 19.6	0.865	1.763	22.2	20.7	6 20	20 32.36	-25 39.8	2.549	3.426	10.0	22.9
6 30	20 45.55	-29 28.5	0.835	1.791	16.2	20.4	6 30	20 26.20	-26 24.4	2.459	3.408	7.3	22.6
7 10	20 29.89	-31 34.7	0.823	1.816	10.3	20.2	7 10	20 18.31	-27 10.0	2.396	3.389	4.3	22.4
7 20	20 11.33	-33 19.0	0.835	1.839	7.1	20.2	7 20	20 9.23	-27 52.7	2.360	3.370	2.3	22.3
7 30	19 52.77	-34 27.1	0.870	1.860	10.1	20.4	7 30	19 59.74	-28 28.7	2.354	3.350	4.0	22.3
8 9	19 37.11	-34 56.4	0.927	1.878	15.3	20.7	8 9	19 50.71	-28 55.4	2.376	3.330	7.0	22.5
8 19	19 26.15	-34 53.8	1.004	1.894	20.1	21.1	8 19	19 42.92	-29 11.7	2.424	3.308	10.0	22.7
8 29	19 20.58	-34 29.2	1.096	1.908	23.9	21.4	8 29	19 37.05	-29 18.0	2.495	3.286	12.6	22.8
249820	2001 <i>FO</i> ₁₄₈		7 22.2 195° 52	11° 5/19.5	18		198310	2004 <i>TX</i> ₃₃₃		7 22.2 279° 59	0° 8/22.6	18	
6 20	20 54.23	-44 24.9	1.325	2.188	18.1	20.2	6 20	20 31.19	-16 55.5	1.780	2.662	13.3	20.8
6 30	20 43.70	-45 19.4	1.268	2.187	15.1	20.1	6 30	20 25.85	-17 9.6	1.692	2.643	9.8	20.5
7 10	20 28.79	-45 52.3	1.232	2.184	12.5	19.9	7 10	20 18.32	-17 32.0	1.628	2.623	5.8	20.2
7 20	20 11.14	-45 50.9	1.219	2.181	11.5	19.8	7 20	20 9.26	-17 59.8	1.588	2.603	1.5	19.9
7 30	19 53.30	-45 8.6	1.228	2.177	12.7	19.9	7 30	19 59.65	-18 29.7	1.575	2.583	3.5	20.0
8 9	19 37.86	-43 48.1	1.261	2.171	15.5	20.0	8 9	19 50.65	-18 58.0	1.589	2.562	8.0	20.2
8 19	19 26.57	-41 59.8	1.314	2.165	18.7	20.2	8 19	19 43.29	-19 22.3	1.626	2.542	12.2	20.4
8 29	19 20.18	-39 55.5	1.385	2.158	21.7	20.4	8 29	19 38.38	-19 40.9	1.685	2.522	15.8	20.6
174729	2003 <i>UB</i> ₁₈₂		7 22.2 241° 12	1° 9/21.3	18		476892	2008 <i>WU</i>		7 22.2 235° 22	2° 7/20.8	16	
6 20	20 33.55	-21 53.8	1.620	2.511	13.9	20.5	6 20	20 32.35	-25 30.1	1.894	2.782	12.3	21.8
6 30	20 27.74	-22 45.6	1.545	2.501	10.1	20.3	6 30	20 26.54	-26 14.4	1.823	2.777	8.9	21.6
7 10	20 19.45	-23 43.5	1.493	2.491	5.8	20.0	7 10	20 18.61	-26 59.9	1.776	2.772	5.3	21.4
7 20	20 9.45	-24 41.7	1.467	2.481	2.0	19.7	7 20	20 9.29	-27 41.5	1.755	2.766	2.7	21.2
7 30	19 58.89	-25 33.9	1.467	2.470	4.7	19.9	7 30	19 59.60	-28 14.6	1.762	2.760	4.8	21.3
8 9	19 49.13	-26 15.4	1.492	2.459	9.2	20.1	8 9	19 50.67	-28 36.1	1.795	2.754	8.4	21.6
8 19	19 41.32	-26 43.9	1.542	2.447	13.4	20.4	8 19	19 43.48	-28 45.2	1.852	2.748	12.0	21.8
8 29	19 36.33	-26 59.6	1.612	2.435	16.9	20.6	8 29	19 38.73	-28 42.9	1.930	2.742	15.0	22.0
356338	2010 <i>KO</i> ₇₇		7 22.2 346° 05	4° 2/23.9	18		77420	2001 <i>FD</i> ₁₉₅		7 22.2 50° 41	2° 5/20.9	18	
6 20	20 28.95	-9 48.5	1.844	2.710	13.7	20.2	6 20	20 32.06	-22 14.5	1.345	2.248	15.4	19.1
6 30	20 23.91	-9 19.6	1.772	2.706	10.6	20.0	6 30	20 26.80	-23 22.4	1.294	2.255	11.1	18.8
7 10	20 17.04	-9 2.1	1.722	2.702	7.2	19.8	7 10	20 18.92	-24 36.2	1.264	2.263	6.3	18.6
7 20	20 8.97	-8 55.9	1.697	2.699	4.5	19.6	7 20	20 9.35	-25 48.2	1.258	2.271	2.6	18.4
7 30	20 0.63	-9 0.2	1.698	2.696	4.9	19.6	7 30	19 59.46	-26 50.8	1.277	2.280	5.4	18.6
8 9	19 52.98	-9 12.7	1.724	2.694	7.9	19.8	8 9	19 50.71	-27 38.8	1.321	2.288	10.0	18.8
8 19	19 46.86	-9 30.9	1.775	2.692	11.3	20.0	8 19	19 44.25	-28 10.2	1.386	2.297	14.2	19.1
8 29	19 42.91	-9 51.7	1.848	2.691	14.3	20.2	8 29	19 40.87	-28 25.7	1.471	2.306	17.7	19.4
350004	2010 <i>GJ</i> ₁₂₇		7 22.2 287° 88	0° 9/22.8	18								

EPHEMERIDES

7 22.2

7 22.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
385034	2012 <i>TW</i> ₃₀₅		7 22.2 19°30'	0.7/21.9	16		392671	2011 <i>UN</i> ₃₀₇		7 22.3 337°65'	4.0/20.5	18	
6 20	20 31.83	-20 58.5	1.697	2.587	13.4	21.4	6 20	20 32.53	-30 10.8	1.847	2.738	12.5	20.0
6 30	20 26.19	-21 14.0	1.632	2.588	9.7	21.2	6 30	20 26.70	-30 37.2	1.781	2.733	9.2	19.8
7 10	20 18.39	-21 33.7	1.591	2.589	5.5	20.9	7 10	20 18.70	-30 59.7	1.738	2.729	6.0	19.5
7 20	20 9.24	-21 53.8	1.574	2.590	1.1	20.6	7 20	20 9.33	-31 13.4	1.720	2.725	4.0	19.4
7 30	19 59.82	-22 10.9	1.584	2.591	3.7	20.8	7 30	19 59.69	-31 14.8	1.729	2.722	5.7	19.5
8 9	19 51.30	-22 22.2	1.620	2.592	8.1	21.1	8 9	19 50.97	-31 2.3	1.764	2.718	9.0	19.7
8 19	19 44.62	-22 26.7	1.680	2.594	12.0	21.3	8 19	19 44.12	-30 37.1	1.822	2.715	12.3	19.9
8 29	19 40.47	-22 24.4	1.761	2.595	15.3	21.5	8 29	19 39.83	-30 1.5	1.901	2.713	15.2	20.1
291191	2006 <i>AF</i> ₅₈		7 22.2 209°58'	1.1/22.8	17		260857	2005 <i>QN</i> ₈₅		7 22.3 295°80'	3.5/24.3	18	
6 20	20 31.79	-15 56.2	1.994	2.867	12.5	22.1	6 20	20 27.55	- 8 54.1	2.058	2.917	12.7	20.7
6 30	20 25.93	-16 9.4	1.918	2.863	9.2	21.9	6 30	20 22.85	- 9 1.0	1.976	2.907	9.8	20.5
7 10	20 18.19	-16 30.2	1.865	2.858	5.4	21.7	7 10	20 16.45	- 9 20.7	1.917	2.897	6.6	20.3
7 20	20 9.21	-16 56.2	1.839	2.853	1.6	21.4	7 20	20 8.92	- 9 52.2	1.884	2.888	3.9	20.1
7 30	19 59.91	-17 24.3	1.841	2.848	3.2	21.5	7 30	20 1.05	-10 33.2	1.877	2.878	4.2	20.1
8 9	19 51.27	-17 51.6	1.870	2.842	7.1	21.8	8 9	19 53.71	-11 20.2	1.897	2.869	7.1	20.3
8 19	19 44.15	-18 15.9	1.924	2.836	10.8	22.0	8 19	19 47.70	-12 9.4	1.943	2.860	10.4	20.5
8 29	19 39.22	-18 35.6	2.001	2.829	13.9	22.2	8 29	19 43.64	-12 57.5	2.011	2.851	13.5	20.7
313341	2002 <i>GE</i> ₄₉		7 22.2 198°92'	2.6/21.1	17		148540	2001 <i>QN</i> ₁₀₂		7 22.3 327°53'	1.5/22.9	18	
6 20	20 36.68	-25 13.9	1.798	2.683	13.1	21.5	6 20	20 27.86	-14 1.2	1.290	2.187	16.3	19.1
6 30	20 29.74	-25 51.3	1.728	2.680	9.5	21.3	6 30	20 23.97	-14 38.5	1.217	2.174	12.1	18.8
7 10	20 20.46	-26 29.5	1.681	2.676	5.6	21.0	7 10	20 17.48	-15 32.4	1.165	2.162	7.3	18.5
7 20	20 9.64	-27 3.3	1.660	2.671	2.6	20.8	7 20	20 9.15	-16 38.9	1.135	2.150	2.3	18.2
7 30	19 58.44	-27 27.9	1.666	2.666	4.8	20.9	7 30	20 0.21	-17 51.6	1.130	2.139	4.2	18.3
8 9	19 48.11	-27 40.8	1.700	2.660	8.8	21.2	8 9	19 52.10	-19 3.3	1.148	2.128	9.5	18.6
8 19	19 39.73	-27 41.5	1.757	2.653	12.5	21.4	8 19	19 46.08	-20 7.9	1.188	2.119	14.4	18.8
8 29	19 34.06	-27 31.6	1.836	2.646	15.7	21.6	8 29	19 43.08	-21 1.4	1.248	2.110	18.6	19.1
314560	2005 <i>YQ</i> ₁₆₅		7 22.3 249°61'	0.4/22.5	18		75457	1999 <i>XF</i> ₁₄₆		7 22.3 173°10'	1.1/22.8	17	
6 20	20 27.56	-15 59.4	2.401	3.274	10.7	20.4	6 20	20 33.72	-16 9.2	1.791	2.667	13.5	21.0
6 30	20 22.68	-16 48.7	2.323	3.269	7.7	20.2	6 30	20 27.44	-16 22.8	1.723	2.670	9.9	20.8
7 10	20 16.28	-17 46.0	2.270	3.265	4.5	19.9	7 10	20 19.09	-16 44.6	1.678	2.672	5.8	20.5
7 20	20 8.87	-18 48.1	2.245	3.260	1.0	19.7	7 20	20 9.41	-17 11.5	1.659	2.673	1.7	20.2
7 30	20 1.16	-19 51.1	2.248	3.255	2.7	19.8	7 30	19 59.44	-17 40.3	1.667	2.675	3.5	20.4
8 9	19 53.93	-20 51.1	2.280	3.251	6.2	20.0	8 9	19 50.28	-18 7.6	1.702	2.675	7.7	20.6
8 19	19 47.87	-21 45.3	2.338	3.246	9.3	20.2	8 19	19 42.88	-18 31.1	1.762	2.675	11.6	20.9
8 29	19 43.56	-22 31.6	2.420	3.241	12.0	20.4	8 29	19 37.91	-18 49.6	1.844	2.675	14.9	21.1
366651	2003 <i>SZ</i> ₂₉₇		7 22.3 320°07'	8.8/24.3	18		289212	2004 <i>XF</i> ₂₃		7 22.3 224°25'	3.6/23.7	18	
6 20	20 29.32	- 5 28.1	1.167	2.044	19.1	20.1	6 20	20 32.48	-10 35.4	2.133	2.987	12.5	20.7
6 30	20 25.24	- 4 14.2	1.090	2.023	15.6	19.8	6 30	20 26.31	-10 7.6	2.051	2.980	9.6	20.5
7 10	20 18.31	- 3 17.9	1.031	2.003	11.9	19.5	7 10	20 18.37	- 9 48.7	1.992	2.971	6.4	20.3
7 20	20 9.31	- 2 43.9	0.993	1.984	9.2	19.3	7 20	20 9.28	- 9 38.7	1.959	2.963	3.9	20.1
7 30	19 59.54	- 2 34.6	0.975	1.965	9.4	19.2	7 30	19 59.87	- 9 36.9	1.955	2.953	4.4	20.1
8 9	19 50.56	- 2 48.7	0.980	1.947	12.6	19.3	8 9	19 51.06	- 9 41.7	1.978	2.944	7.3	20.3
8 19	19 43.79	- 3 21.5	1.003	1.930	16.8	19.5	8 19	19 43.65	- 9 51.1	2.026	2.934	10.5	20.4
8 29	19 40.29	- 4 6.4	1.045	1.914	20.9	19.7	8 29	19 38.26	-10 3.1	2.098	2.924	13.5	20.6
150000	2005 <i>UC</i> ₁₄₂		7 22.3 235°58'	3.8/19.6	18		207237	2005 <i>EE</i> ₁₆₆		7 22.3 345°01'	1.9/21.4	18	
6 20	20 30.28	-29 29.1	2.313	3.198	10.5	19.5	6 20	20 31.67	-24 14.4	1.694	2.588	13.2	20.2
6 30	20 24.81	-30 32.4	2.245	3.194	7.8	19.3	6 30	20 26.15	-24 33.7	1.628	2.585	9.6	20.0
7 10	20 17.55	-31 34.2	2.202	3.191	5.1	19.2	7 10	20 18.43	-24 54.2	1.585	2.583	5.5	19.7
7 20	20 9.11	-32 29.6	2.186	3.187	3.8	19.1	7 20	20 9.30	-25 11.8	1.567	2.580	2.0	19.5
7 30	20 0.34	-33 14.0	2.198	3.183	5.3	19.2	7 30	19 59.87	-25 22.8	1.575	2.578	4.4	19.6
8 9	19 52.18	-33 44.8	2.237	3.179	8.0	19.3	8 9	19 51.35	-25 24.9	1.608	2.576	8.5	19.9
8 19	19 45.46	-34 1.2	2.301	3.176	10.8	19.5	8 19	19 44.71	-25 17.7	1.666	2.575	12.3	20.1
8 29	19 40.81	-34 4.5	2.386	3.172	13.2	19.7	8 29	19 40.66	-25 2.3	1.744	2.574	15.6	20.3
520456	2014 <i>KQ</i> ₁₀₇		7 22.3 112°15'	0.5/21.9	18		171733	2000 <i>WD</i> ₇₁		7 22.3 306°55'	2.0/22.8	17	
6 20	20 29.50	-20 11.1	2.263	3.144	10.9	21.7	6 20	20 33.09	-16 46.3	1.265	2.161	16.7	19.5
6 30	20 24.05	-20 38.1	2.199	3.150	7.8	21.6	6 30	20 27.83	-16 22.8	1.190	2.146	12.4	19.2
7 10	20 17.02	-21 9.0	2.160	3.156	4.4	21.4	7 10	20 19.70	-16 7.1	1.135	2.131	7.5	18.9
7 20	20 9.00	-21 40.7	2.147	3.162	0.9	21.1	7 20	20 9.58	-15 57.8	1.103	2.117	2.6	18.5
7 30	20 0.79	-22 10.1	2.162	3.168	3.0	21.3	7 30	19 58.84	-15 52.9	1.095	2.103	4.6	18.6
8 9	19 53.23	-22 34.7	2.206	3.174	6.5	21.5	8 9	19 49.06	-15 50.1	1.110	2.089	10.0	18.9
8 19	19 47.04	-22 53.2	2.274	3.180	9.6	21.7	8 19	19 41.60	-15 47.6	1.148	2.076	15.0	19.1
8 29	19 42.75	-23 5.0	2.366	3.186	12.3	21.9	8 29	19 37.41	-15 44.1	1.203	2.063	19.4	19.4
367319	2008 <i>AK</i> ₁₄		7 22.3 309°17'	2.4/23.4	17		342104	2008 <i>SS</i> ₆₆		7 22.3 285°52'	7.4/26.1	18	
6 20	20 29.13	-12 33.3	1.283	2.175	16.8	20.5	6 20	20 28.74	- 0 10.5	1.796	2.624	15.6	21.2
6 30	20 24.94	-13 2.7	1.206	2.159	12.6	20.2	6 30	20 24.05	+ 0 2.3	1.702	2.602	12.9	21.0
7 10	20 18.07	-13 50.1	1.150	2.144	7.8	19.9	7 10	20 17.32	- 0 6.0	1.628	2.579	10.1	20.8
7 20	20 9.26	-14 52.5	1.116	2.129	3.0	19.6	7 20	20 9.13	- 0 36.8	1.578	2.555	7.9	20.6
7 30	19 59.75	-16 4.1	1.106	2.114	4.5	19.6	7 30	20 0.34	- 1 29.6	1.552	2.532	7.6	20.5
8 9	19 51.04	-17 17.5	1.120	2.100	9.7	19.9	8 9	19 52.02	- 2 40.6	1.551	2.509	9.7	20.6
8 19	19 44.43	-18 26.3	1.156	2.086	14.7	20.1	8 19	19 45.13	- 4 3.9	1.574	2.485	12.8	20.7
8 29	19 40.92	-19 25.7	1.211	2.073	19.1	20.4	8 29	19 40.51	- 5 32.8	1.619	2.461	16.0	20.9
438681	2008 <i>GO</i> ₁₄₀		7 22.3 210°20'	4.5/19.2	18		309763						

EPHEMERIDES

7 22.3

7 22.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
91445	1999 <i>RC</i> ₁₉		7 22.3 231 ^o .72	1.7 ^o /23.5	18		30439	Moe		7 22.3 130 ^o .89	3.7 ^o /20.5	18	
6 20	20 27.97	-12 43.4	2.783	3.640	9.8	20.0	6 20	20 35.61	-28 10.4	1.774	2.662	13.1	17.8
6 30	20 22.80	-13 0.1	2.694	3.628	7.3	19.8	6 30	20 28.92	-28 56.3	1.718	2.671	9.5	17.6
7 10	20 16.30	-13 24.5	2.630	3.616	4.6	19.6	7 10	20 19.97	-29 40.1	1.687	2.679	5.9	17.4
7 20	20 8.92	-13 55.1	2.593	3.604	2.0	19.4	7 20	20 9.63	-30 16.1	1.681	2.688	3.7	17.3
7 30	20 1.26	-14 29.7	2.586	3.591	2.7	19.4	7 30	19 59.07	-30 39.6	1.702	2.696	5.6	17.5
8 9	19 53.99	-15 6.0	2.607	3.577	5.5	19.6	8 9	19 49.55	-30 48.4	1.749	2.703	9.0	17.7
8 19	19 47.71	-15 41.6	2.655	3.563	8.3	19.8	8 19	19 42.03	-30 43.2	1.820	2.710	12.4	17.9
8 29	19 42.94	-16 14.7	2.728	3.549	10.8	19.9	8 29	19 37.21	-30 26.1	1.912	2.717	15.4	18.1
420684	2012 <i>KU</i> ₂₆		7 22.3 161 ^o .01	1.4 ^o /21.6	17		326570	2002 <i>QD</i> ₁₁		7 22.3 332 ^o .91	4.0 ^o /24.0	17	
6 20	20 34.64	-21 44.8	1.833	2.716	12.9	21.9	6 20	20 23.69	-10 23.9	1.034	1.940	18.7	19.7
6 30	20 28.13	-22 25.2	1.770	2.722	9.3	21.7	6 30	20 21.45	-10 39.6	0.958	1.916	14.4	19.3
7 10	20 19.50	-23 9.6	1.730	2.727	5.3	21.5	7 10	20 16.32	-11 19.0	0.900	1.894	9.4	19.0
7 20	20 9.52	-23 53.0	1.717	2.732	1.5	21.3	7 20	20 9.03	-12 21.2	0.862	1.873	4.7	18.6
7 30	19 59.26	-24 30.9	1.732	2.736	4.0	21.4	7 30	20 0.90	-13 40.8	0.845	1.853	5.5	18.6
8 9	19 49.86	-25 0.1	1.773	2.739	8.0	21.7	8 9	19 53.57	-15 9.0	0.849	1.835	10.8	18.8
8 19	19 42.27	-25 19.1	1.839	2.742	11.7	21.9	8 19	19 48.58	-16 36.6	0.873	1.819	16.4	19.1
8 29	19 37.18	-25 28.3	1.927	2.744	14.8	22.1	8 29	19 47.06	-17 55.4	0.913	1.805	21.3	19.3
488378	2016 <i>WA</i> ₄₂		7 22.3 232 ^o .29	2.0 ^o /20.9	18		514377	2016 <i>RT</i> ₁₂		7 22.3 309 ^o .71	4.5 ^o /23.2	18	
6 20	20 30.11	-25 15.7	2.638	3.517	9.6	21.8	6 20	20 33.27	-12 28.9	1.551	2.426	15.3	20.8
6 30	20 24.48	-25 51.7	2.557	3.507	6.9	21.6	6 30	20 27.54	-11 27.4	1.466	2.407	11.8	20.6
7 10	20 17.30	-26 28.4	2.501	3.495	4.1	21.4	7 10	20 19.40	-10 33.2	1.403	2.388	7.9	20.3
7 20	20 9.11	-27 2.6	2.473	3.484	2.0	21.2	7 20	20 9.57	-9 47.8	1.365	2.370	4.8	20.1
7 30	20 0.61	-27 30.9	2.474	3.472	3.6	21.3	7 30	19 59.20	-9 12.3	1.352	2.352	5.6	20.1
8 9	19 52.61	-27 51.3	2.503	3.460	6.5	21.5	8 9	19 49.58	-8 46.5	1.364	2.334	9.5	20.2
8 19	19 45.80	-28 2.9	2.558	3.448	9.3	21.6	8 19	19 41.83	-8 29.5	1.400	2.317	13.6	20.4
8 29	19 40.75	-28 5.8	2.636	3.435	11.8	21.8	8 29	19 36.83	-8 19.4	1.455	2.300	17.4	20.6
119902	2002 <i>DH</i> ₈		7 22.3 232 ^o .49	7.6 ^o /18.0	18		371496	2006 <i>UA</i> ₁₆		7 22.3 283 ^o .24	2.8 ^o /20.9	17	
6 20	20 37.85	-39 8.7	1.945	2.818	12.8	19.3	6 20	20 33.09	-23 58.9	1.517	2.414	14.4	21.4
6 30	20 30.85	-40 17.2	1.879	2.809	10.3	19.2	6 30	20 27.75	-24 51.3	1.434	2.393	10.5	21.1
7 10	20 21.24	-41 16.0	1.836	2.799	8.2	19.0	7 10	20 19.70	-25 49.0	1.374	2.372	6.2	20.8
7 20	20 9.87	-41 57.7	1.819	2.790	7.7	19.0	7 20	20 9.65	-26 45.5	1.338	2.350	2.9	20.6
7 30	19 58.04	-42 16.5	1.827	2.780	8.9	19.0	7 30	19 58.86	-27 33.9	1.328	2.329	5.5	20.7
8 9	19 47.18	-42 10.9	1.860	2.769	11.3	19.2	8 9	19 48.79	-28 9.0	1.342	2.307	10.1	20.9
8 19	19 38.50	-41 43.2	1.916	2.759	14.0	19.3	8 19	19 40.78	-28 28.8	1.379	2.285	14.6	21.1
8 29	19 32.82	-40 57.9	1.990	2.748	16.4	19.5	8 29	19 35.82	-28 33.8	1.435	2.263	18.5	21.3
250681	2005 <i>QA</i> ₉		7 22.3 307 ^o .38	0.6 ^o /22.6	18		81535	2000 <i>HZ</i> ₁₅		7 22.3 181 ^o .92	3.6 ^o /24.4	18	
6 20	20 28.36	-16 50.3	1.928	2.810	12.4	20.5	6 20	20 29.63	-8 3.8	2.350	3.195	11.8	20.5
6 30	20 23.62	-17 12.5	1.846	2.797	9.1	20.3	6 30	20 24.11	-7 59.7	2.274	3.196	9.1	20.3
7 10	20 16.99	-17 42.8	1.787	2.783	5.3	20.0	7 10	20 17.08	-8 6.8	2.222	3.196	6.3	20.1
7 20	20 9.07	-18 18.2	1.755	2.770	1.3	19.7	7 20	20 9.10	-8 24.4	2.197	3.196	4.0	20.0
7 30	20 0.75	-18 55.4	1.749	2.756	3.2	19.8	7 30	20 0.88	-8 50.8	2.199	3.196	4.1	20.0
8 9	19 53.02	-19 30.8	1.769	2.743	7.3	20.1	8 9	19 53.21	-9 23.4	2.228	3.195	6.6	20.2
8 19	19 46.76	-20 1.8	1.815	2.731	11.1	20.3	8 19	19 46.76	-9 59.4	2.284	3.193	9.5	20.3
8 29	19 42.67	-20 26.5	1.882	2.718	14.4	20.5	8 29	19 42.07	-10 36.0	2.364	3.192	12.1	20.5
262223	2006 <i>SE</i> ₂₆₇		7 22.3 29 ^o .87	0.3 ^o /22.4	17		385549	2004 <i>SZ</i> ₃		7 22.3 203 ^o .06	8.2 ^o /28.9	18	
6 20	20 33.40	-18 56.4	1.396	2.290	15.5	20.5	6 20	20 29.80	+10 23.5	2.778	3.510	13.0	22.0
6 30	20 27.66	-19 0.3	1.336	2.292	11.3	20.2	6 30	20 24.11	+10 36.4	2.690	3.504	11.4	21.9
7 10	20 19.39	-19 10.9	1.296	2.294	6.5	20.0	7 10	20 17.05	+10 29.9	2.622	3.497	9.8	21.8
7 20	20 9.52	-19 24.7	1.281	2.297	1.3	19.6	7 20	20 9.10	+10 2.6	2.578	3.489	8.6	21.7
7 30	19 59.35	-19 38.0	1.291	2.299	4.0	19.8	7 30	20 0.87	+9 14.6	2.559	3.481	8.2	21.6
8 9	19 50.27	-19 48.0	1.326	2.302	9.0	20.1	8 9	19 53.04	+8 8.5	2.567	3.471	8.8	21.6
8 19	19 43.40	-19 53.0	1.383	2.305	13.5	20.4	8 19	19 46.22	+6 48.2	2.600	3.461	10.2	21.7
8 29	19 39.48	-19 52.5	1.460	2.308	17.2	20.6	8 29	19 40.93	+5 18.8	2.658	3.449	11.9	21.8
345059	2005 <i>GO</i> ₁₃₃		7 22.3 205 ^o .51	1.2 ^o /22.9	18		115887	2003 <i>VT</i> ₁		7 22.3 146 ^o .38	0.6 ^o /22.0	18	R
6 20	20 29.88	-15 6.5	2.073	2.946	12.1	21.4	6 20	20 33.24	-21 42.3	2.018	2.899	12.0	20.5
6 30	20 24.51	-15 26.9	1.999	2.944	8.9	21.1	6 30	20 26.91	-21 47.1	1.953	2.903	8.7	20.3
7 10	20 17.39	-15 55.6	1.949	2.942	5.3	20.9	7 10	20 18.73	-21 54.0	1.911	2.907	4.9	20.0
7 20	20 9.14	-16 30.2	1.926	2.939	1.7	20.7	7 20	20 9.41	-22 0.3	1.896	2.911	1.0	19.8
7 30	20 0.60	-17 7.5	1.930	2.937	3.1	20.8	7 30	19 59.90	-22 3.4	1.908	2.914	3.3	20.0
8 9	19 52.69	-17 44.1	1.961	2.934	6.8	21.0	8 9	19 51.20	-22 1.8	1.949	2.918	7.2	20.2
8 19	19 46.19	-18 17.6	2.018	2.932	10.3	21.2	8 19	19 44.13	-21 55.1	2.014	2.921	10.6	20.4
8 29	19 41.73	-18 46.0	2.098	2.929	13.3	21.4	8 29	19 39.30	-21 43.4	2.102	2.924	13.6	20.6
285080	1981 <i>EB</i> ₄₇		7 22.3 103 ^o .09	6.0 ^o /20.1	17		444131	2004 <i>TR</i> ₃₃₄		7 22.3 264 ^o .36	3.1 ^o /24.4	17	
6 20	20 40.62	-34 40.8	1.681	2.562	14.0	20.6	6 20	20 27.69	-8 11.3	2.678	3.521	10.6	22.4
6 30	20 32.54	-35 19.6	1.638	2.581	10.6	20.4	6 30	20 22.71	-8 19.2	2.578	3.499	8.2	22.2
7 10	20 21.96	-35 48.8	1.618	2.598	7.5	20.3	7 10	20 16.33	-8 37.7	2.502	3.476	5.6	22.0
7 20	20 9.97	-36 2.2	1.623	2.616	6.0	20.2	7 20	20 8.98	-9 6.0	2.453	3.454	3.5	21.9
7 30	19 58.00	-35 56.0	1.654	2.633	7.4	20.3	7 30	20 1.27	-9 42.5	2.432	3.430	3.7	21.9
8 9	19 47.46	-35 30.5	1.710	2.649	10.3	20.5	8 9	19 53.90	-10 24.6	2.440	3.407	6.1	22.0
8 19	19 39.37	-34 49.1	1.790	2.665	13.4	20.8	8 19	19 47.51	-11 9.6	2.474	3.383	8.8	22.1
8 29	19 34.36	-33 56.2	1.890	2.681	16.0	21.0	8 29	19 42.65	-11 54.8	2.532	3.3		

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
509862	2008 <i>YC</i> ₁₇₀		7 22.3 205°26	1°1/21.6	18		510940	2013 <i>EM</i> ₁₀₄		7 22.3 139°39	2°4/20.8	18	
6 20	20 31.43	-21 43.1	2.285	3.164	10.9	22.4	6 20	20 30.88	-26 54.1	2.517	3.397	10.0	21.7
6 30	20 25.58	-22 19.0	2.209	3.160	7.8	22.2	6 30	20 25.02	-27 25.1	2.454	3.404	7.2	21.5
7 10	20 18.01	-22 58.3	2.159	3.155	4.5	22.0	7 10	20 17.61	-27 55.1	2.417	3.410	4.3	21.4
7 20	20 9.32	-23 37.3	2.135	3.150	1.3	21.7	7 20	20 9.27	-28 20.6	2.407	3.416	2.4	21.2
7 30	20 0.31	-24 12.6	2.140	3.144	3.3	21.9	7 30	20 0.76	-28 38.9	2.425	3.422	3.9	21.4
8 9	19 51.89	-24 41.2	2.173	3.138	6.8	22.1	8 9	19 52.90	-28 48.2	2.472	3.427	6.7	21.5
8 19	19 44.85	-25 1.8	2.232	3.132	10.1	22.3	8 19	19 46.36	-28 48.4	2.544	3.432	9.4	21.7
8 29	19 39.79	-25 14.1	2.314	3.125	12.9	22.5	8 29	19 41.69	-28 40.1	2.639	3.437	11.8	21.9
389536	2010 <i>JC</i> ₁₄₉		7 22.3 115°79	1°0/21.7	18		342987	2009 <i>BL</i> ₅₀		7 22.3 205°35	0°1/22.3	18	
6 20	20 31.23	-20 43.4	2.032	2.915	11.9	21.2	6 20	20 30.54	-18 3.8	2.236	3.111	11.2	21.1
6 30	20 25.49	-21 24.4	1.973	2.925	8.5	21.0	6 30	20 24.97	-18 37.4	2.160	3.108	8.2	20.9
7 10	20 17.95	-22 9.8	1.937	2.934	4.8	20.8	7 10	20 17.69	-19 17.1	2.108	3.104	4.6	20.7
7 20	20 9.30	-22 55.3	1.928	2.943	1.2	20.5	7 20	20 9.30	-19 59.9	2.084	3.099	0.9	20.4
7 30	20 0.44	-23 36.9	1.947	2.952	3.4	20.7	7 30	20 0.61	-20 42.1	2.088	3.094	2.9	20.6
8 9	19 52.32	-24 11.5	1.994	2.961	7.2	21.0	8 9	19 52.48	-21 20.5	2.119	3.089	6.6	20.8
8 19	19 45.76	-24 37.3	2.065	2.970	10.5	21.2	8 19	19 45.69	-21 53.0	2.177	3.084	10.0	21.0
8 29	19 41.35	-24 54.1	2.159	2.978	13.4	21.4	8 29	19 40.86	-22 18.4	2.258	3.078	12.8	21.2
71351	2000 <i>AJ</i> ₁₀₈		7 22.3 294°69	1°3/22.9	18		321511	2009 <i>SW</i> ₁₈₂		7 22.3 157°64	4°2/20.4	18	
6 20	20 30.29	-15 57.2	1.763	2.645	13.4	19.2	6 20	20 36.01	-29 27.2	1.737	2.626	13.3	20.7
6 30	20 25.16	-16 3.9	1.683	2.632	9.9	19.0	6 30	20 29.35	-30 9.6	1.678	2.629	9.8	20.5
7 10	20 17.95	-16 19.1	1.626	2.620	5.9	18.7	7 10	20 20.33	-30 48.9	1.641	2.632	6.3	20.3
7 20	20 9.33	-16 40.5	1.594	2.609	1.9	18.4	7 20	20 9.80	-31 19.0	1.630	2.635	4.2	20.1
7 30	20 0.28	-17 5.1	1.589	2.597	3.5	18.5	7 30	19 59.01	-31 35.4	1.646	2.637	6.0	20.3
8 9	19 51.91	-17 29.6	1.610	2.585	7.8	18.8	8 9	19 49.25	-31 36.2	1.687	2.639	9.4	20.5
8 19	19 45.19	-17 51.6	1.655	2.573	11.8	19.0	8 19	19 41.57	-31 22.2	1.752	2.641	12.9	20.7
8 29	19 40.85	-18 9.3	1.721	2.562	15.3	19.2	8 29	19 36.68	-30 56.1	1.837	2.643	15.9	20.9
164236	2004 <i>TW</i> ₂₀		7 22.3 250°96	2°7/21.3	18		254241	2004 <i>RH</i> ₁₄₂		7 22.3 324°75	4°6/19.6	18	
6 20	20 35.57	-24 32.0	1.386	2.284	15.4	20.1	6 20	20 30.25	-30 48.3	1.946	2.838	11.9	19.5
6 30	20 29.51	-25 5.3	1.320	2.279	11.2	19.9	6 30	20 25.17	-31 41.4	1.875	2.827	8.9	19.3
7 10	20 20.63	-25 40.8	1.275	2.273	6.5	19.6	7 10	20 17.97	-32 31.9	1.828	2.817	6.0	19.1
7 20	20 9.84	-26 12.5	1.255	2.268	2.8	19.4	7 20	20 9.37	-33 14.0	1.807	2.807	4.6	19.0
7 30	19 58.58	-26 34.6	1.259	2.262	5.4	19.5	7 30	20 0.38	-33 43.0	1.812	2.798	6.2	19.1
8 9	19 48.42	-26 43.8	1.288	2.256	10.2	19.8	8 9	19 52.14	-33 56.1	1.843	2.789	9.2	19.3
8 19	19 40.63	-26 39.9	1.339	2.250	14.6	20.0	8 19	19 45.60	-33 53.5	1.896	2.780	12.3	19.4
8 29	19 36.10	-26 24.5	1.410	2.244	18.4	20.2	8 29	19 41.50	-33 36.9	1.971	2.772	15.1	19.6
56248	1999 <i>JQ</i> ₇₄		7 22.3 79°18	0°7/21.9	18 R		198237	2004 <i>TR</i> ₂₀₃		7 22.3 35°18	3°6/23.8	18	
6 20	20 34.05	-19 9.5	1.638	2.523	14.1	18.9	6 20	20 30.87	-11 19.3	1.577	2.452	15.1	19.8
6 30	20 27.66	-19 57.6	1.596	2.549	10.1	18.7	6 30	20 25.56	-11 2.8	1.515	2.456	11.4	19.6
7 10	20 19.19	-20 51.6	1.578	2.575	5.6	18.5	7 10	20 18.14	-10 58.7	1.475	2.461	7.5	19.3
7 20	20 9.52	-21 46.2	1.586	2.601	1.1	18.2	7 20	20 9.40	-11 6.3	1.460	2.467	4.1	19.2
7 30	19 59.81	-22 36.3	1.621	2.627	3.8	18.5	7 30	20 0.41	-11 23.3	1.469	2.472	4.7	19.2
8 9	19 51.18	-23 17.9	1.682	2.652	8.0	18.8	8 9	19 52.32	-11 46.5	1.504	2.478	8.3	19.4
8 19	19 44.52	-23 49.3	1.767	2.677	11.7	19.1	8 19	19 46.06	-12 12.7	1.563	2.484	12.2	19.7
8 29	19 40.42	-24 10.2	1.874	2.701	14.8	19.3	8 29	19 42.29	-12 38.7	1.642	2.491	15.5	19.9
314053	2005 <i>AG</i> ₂₉		7 22.3 216°17	1°1/22.7	17		409729	2006 <i>CG</i> ₂₂		7 22.3 278°88	3°8/20.9	17	
6 20	20 34.01	-16 37.1	1.503	2.389	15.1	21.1	6 20	20 36.50	-27 6.9	1.306	2.208	15.9	21.4
6 30	20 28.08	-16 47.4	1.435	2.386	11.1	20.9	6 30	20 30.48	-27 38.4	1.237	2.196	11.7	21.1
7 10	20 19.69	-17 6.8	1.387	2.383	6.5	20.6	7 10	20 21.34	-28 9.4	1.188	2.184	7.2	20.8
7 20	20 9.67	-17 32.2	1.365	2.379	1.8	20.3	7 20	20 10.05	-28 33.0	1.162	2.172	3.9	20.6
7 30	19 59.24	-18 59.6	1.368	2.376	3.9	20.4	7 30	19 58.16	-28 43.0	1.161	2.161	6.4	20.7
8 9	19 49.73	-18 25.4	1.397	2.372	8.7	20.7	8 9	19 47.41	-28 36.6	1.183	2.149	11.1	20.9
8 19	19 42.26	-18 46.8	1.449	2.368	13.1	20.9	8 19	19 39.25	-28 14.7	1.227	2.137	15.7	21.2
8 29	19 37.64	-19 2.6	1.521	2.363	16.9	21.2	8 29	19 34.63	-27 40.4	1.289	2.125	19.7	21.4
471657	2012 <i>TA</i> ₁₃₁		7 22.3 325°42	0°5/22.5	18		124026	2001 <i>FZ</i> ₁₁₅		7 22.3 179°51	0°3/22.1	18	
6 20	20 27.49	-16 30.1	1.361	2.261	15.5	20.6	6 20	20 29.32	-20 22.7	2.704	3.578	9.6	20.3
6 30	20 23.72	-17 5.9	1.283	2.242	11.4	20.3	6 30	20 23.79	-20 36.3	2.631	3.579	6.9	20.1
7 10	20 17.41	-17 55.0	1.225	2.223	6.6	20.0	7 10	20 16.89	-20 52.6	2.584	3.579	3.9	19.9
7 20	20 9.27	-18 53.3	1.190	2.205	1.5	19.6	7 20	20 9.15	-21 9.4	2.564	3.580	0.7	19.6
7 30	20 0.47	-19 54.7	1.179	2.188	4.1	19.7	7 30	20 1.23	-21 24.7	2.573	3.579	2.6	19.8
8 9	19 52.41	-20 52.9	1.193	2.172	9.4	20.0	8 9	19 53.83	-21 36.7	2.611	3.579	5.6	20.0
8 19	19 46.34	-21 43.0	1.228	2.156	14.3	20.2	8 19	19 47.56	-21 44.4	2.675	3.579	8.5	20.2
8 29	19 43.22	-22 22.2	1.283	2.142	18.4	20.4	8 29	19 42.92	-21 47.4	2.764	3.578	10.9	20.4
466537	2014 <i>SH</i> ₁₄₇		7 22.3 185°81	3°6/20.8	17		254219	2004 <i>RZ</i> ₉₃		7 22.3 315°45	8°1/27.4	18	
6 20	20 37.04	-26 24.7	1.470	2.364	14.9	21.8	6 20	20 25.77	+ 3 13.3	1.977	2.787	15.0	19.8
6 30	20 30.45	-27 12.0	1.409	2.365	10.9	21.6	6 30	20 21.75	+ 3 25.9	1.887	2.768	12.8	19.6
7 10	20 21.11	-27 59.8	1.369	2.364	6.6	21.3	7 10	20 15.98	+ 3 16.8	1.817	2.750	10.4	19.5
7 20	20 9.96	-28 41.0	1.354	2.364	3.6	21.2	7 20	20 9.01	+ 2 44.4	1.770	2.732	8.6	19.3
7 30	19 58.41	-29 9.6	1.365	2.363	5.9	21.3	7 30	20 1.61	+ 1 49.2	1.747	2.714	8.1	19.2
8 9	19 47.98	-29 22.3	1.401	2.362	10.2	21.6	8 9	19 54.66	+ 0 34.8	1.748	2.696	9.5	19.3
8 19	19 39.02	-29 19.6	1.459	2.360	14.3	21.8	8 19	19 48.98	- 0 53.4	1.774	2.679	11.9	19.4
8 29	19 35.03	-29 3.6	1.537	2.358	17.8	22.0	8 29	19 45.28	- 2 28.8	1.822	2.663	14.6	19.5
373586	2002 <i>AQ</i> ₁₈₅		7 22.3 188°01	2°2/21.1	17		146771 </						

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
153901	2001 <i>XB</i> ₂₁₉		7 22.3 117°31'	1°3'/21.7	17		442006	2010 <i>OQ</i> ₂₆		7 22.3 214°79'	1°6'/23.1	18	
6 20	20 34.11	-22 6.2	1.825	2.709	12.9	20.6	6 20	20 30.38	-15 4.3	2.772	3.631	9.8	21.1
6 30	20 27.71	-22 36.8	1.769	2.722	9.3	20.4	6 30	20 24.53	-14 50.7	2.688	3.625	7.3	20.9
7 10	20 19.28	-23 10.3	1.737	2.734	5.2	20.2	7 10	20 17.34	-14 41.8	2.630	3.618	4.4	20.7
7 20	20 9.62	-23 42.5	1.731	2.745	1.5	20.0	7 20	20 9.30	-14 36.9	2.600	3.611	1.9	20.5
7 30	19 59.78	-24 9.3	1.752	2.757	3.8	20.2	7 30	20 1.05	-14 34.7	2.599	3.604	2.7	20.5
8 9	19 50.88	-24 28.1	1.801	2.768	7.8	20.4	8 9	19 53.27	-14 34.2	2.627	3.597	5.5	20.7
8 19	19 43.80	-24 38.1	1.874	2.779	11.4	20.7	8 19	19 46.58	-14 34.2	2.683	3.589	8.3	20.9
8 29	19 39.16	-24 39.5	1.968	2.789	14.4	20.9	8 29	19 41.45	-14 33.9	2.762	3.580	10.8	21.1
447131	2004 <i>XJ</i> ₁₁		7 22.3 327°99'	11°7'/24.4	17		516238	2016 <i>UA</i> ₄₃		7 22.3 194°97'	2°9'/20.2	18	
6 20	20 30.45	+ 5 38.9	1.851	2.644	16.5	19.3	6 20	20 30.40	-29 12.2	2.902	3.779	8.9	22.0
6 30	20 25.29	+ 7 38.0	1.766	2.622	14.6	19.1	6 30	20 24.63	-29 53.8	2.831	3.776	6.5	21.8
7 10	20 18.09	+ 9 20.1	1.701	2.601	12.9	19.0	7 10	20 17.43	-30 33.5	2.785	3.774	4.2	21.7
7 20	20 9.44	+10 39.3	1.659	2.581	11.9	18.9	7 20	20 9.32	-31 8.0	2.767	3.770	2.9	21.6
7 30	20 0.22	+11 31.2	1.639	2.561	11.9	18.8	7 30	20 0.98	-31 34.3	2.779	3.767	4.1	21.7
8 9	19 51.47	+11 54.7	1.643	2.542	13.2	18.9	8 9	19 53.14	-31 50.7	2.818	3.763	6.5	21.8
8 19	19 44.16	+11 51.8	1.667	2.524	15.1	19.0	8 19	19 46.44	-31 56.9	2.884	3.759	8.9	22.0
8 29	19 39.09	+11 27.5	1.710	2.506	17.3	19.1	8 29	19 41.41	-31 53.5	2.972	3.754	11.0	22.1
384535	2010 <i>DN</i> ₇₆		7 22.3 163°20'	4°5'/25.1	18		65939	1998 <i>FK</i> ₇₉		7 22.3 18°09'	7°3'/26.5	18	
6 20	20 29.75	- 5 17.9	2.096	2.936	13.2	21.1	6 20	20 27.43	- 1 21.4	1.469	2.318	17.4	18.6
6 30	20 24.38	- 5 28.0	2.024	2.940	10.4	20.9	6 30	20 23.23	- 1 18.6	1.407	2.322	14.1	18.4
7 10	20 17.35	- 5 53.4	1.975	2.943	7.4	20.8	7 10	20 16.92	- 1 40.2	1.365	2.326	10.7	18.2
7 20	20 9.27	- 6 33.2	1.951	2.946	4.9	20.6	7 20	20 9.24	- 2 26.3	1.344	2.331	7.9	18.0
7 30	20 0.92	- 7 24.6	1.954	2.948	4.9	20.6	7 30	20 1.25	- 3 33.8	1.348	2.336	7.5	18.0
8 9	19 53.18	- 8 23.9	1.984	2.951	7.3	20.8	8 9	19 54.08	- 4 56.5	1.375	2.342	9.7	18.2
8 19	19 46.78	- 9 26.6	2.040	2.952	10.3	21.0	8 19	19 48.70	- 6 26.9	1.425	2.349	13.0	18.4
8 29	19 42.32	-10 28.8	2.120	2.954	13.1	21.1	8 29	19 45.81	- 7 57.6	1.496	2.356	16.2	18.6
168752	2000 <i>QQ</i> ₁₇₄		7 22.3 310°70'	0°5'/22.1	18		24127	1999 <i>VZ</i> ₅₂		7 22.3 311°65'	6°1'/17.4	18	
6 20	20 32.07	-21 47.2	2.028	2.911	11.9	19.9	6 20	20 31.22	-34 33.6	2.195	3.078	11.1	16.4
6 30	20 26.16	-21 43.8	1.956	2.908	8.6	19.7	6 30	20 25.88	-36 15.1	2.132	3.073	8.6	16.3
7 10	20 18.39	-21 42.0	1.908	2.905	4.9	19.4	7 10	20 18.44	-37 52.6	2.093	3.067	6.6	16.1
7 20	20 9.46	-21 39.7	1.886	2.902	1.0	19.1	7 20	20 9.55	-39 19.0	2.082	3.062	6.1	16.1
7 30	20 0.30	-21 34.7	1.892	2.899	3.2	19.3	7 30	20 0.15	-40 28.1	2.098	3.056	7.6	16.2
8 9	19 51.89	-21 25.7	1.925	2.896	7.1	19.6	8 9	19 51.36	-41 16.5	2.139	3.051	9.9	16.3
8 19	19 45.05	-21 12.4	1.983	2.893	10.6	19.8	8 19	19 44.15	-41 43.8	2.204	3.046	12.4	16.5
8 29	19 40.41	-20 54.9	2.064	2.890	13.7	20.0	8 29	19 39.32	-41 52.2	2.288	3.041	14.7	16.6
17790	1998 <i>FN</i> ₄₉		7 22.3 278°12'	5°6'/25.7	18		437767	2015 <i>AT</i> ₁₀₉		7 22.3 136°99'	0°6'/22.6	15	
6 20	20 27.55	- 2 39.7	2.149	2.980	13.3	18.1	6 20	20 34.65	-17 33.7	1.806	2.683	13.4	22.1
6 30	20 22.83	- 2 32.1	2.069	2.974	10.7	17.9	6 30	20 28.10	-17 44.7	1.745	2.693	9.7	21.9
7 10	20 16.50	- 2 40.7	2.011	2.967	8.1	17.7	7 10	20 19.53	-18 2.0	1.708	2.702	5.6	21.7
7 20	20 9.12	- 3 5.4	1.977	2.961	6.0	17.6	7 20	20 9.72	-18 22.7	1.696	2.711	1.3	21.4
7 30	20 1.43	- 3 45.1	1.969	2.954	5.8	17.6	7 30	19 59.72	-18 43.6	1.713	2.720	3.3	21.6
8 9	19 54.26	- 4 36.3	1.988	2.948	7.7	17.7	8 9	19 50.62	-19 2.1	1.756	2.728	7.5	21.8
8 19	19 48.33	- 5 35.1	2.032	2.942	10.4	17.8	8 19	19 43.30	-19 16.4	1.824	2.736	11.3	22.1
8 29	19 44.25	- 6 37.0	2.099	2.935	13.1	18.0	8 29	19 38.41	-19 25.7	1.914	2.743	14.5	22.3
118467	1999 <i>XO</i> ₁₂₃		7 22.3 253°69'	3°5'/24.1	18		177917	2005 <i>SY</i> ₁₇₈		7 22.3 71°28'	4°3'/20.2	18	
6 20	20 29.65	- 9 6.2	2.626	3.470	10.8	19.7	6 20	20 33.20	-31 55.3	2.127	3.010	11.4	20.0
6 30	20 24.12	- 8 41.4	2.534	3.455	8.3	19.5	6 30	20 27.02	-32 27.3	2.066	3.013	8.5	19.9
7 10	20 17.15	- 8 24.8	2.466	3.439	5.8	19.3	7 10	20 18.91	-32 54.4	2.029	3.015	5.7	19.7
7 20	20 9.25	- 8 16.5	2.425	3.423	3.7	19.1	7 20	20 9.61	-33 12.0	2.018	3.017	4.3	19.6
7 30	20 1.05	- 8 16.0	2.412	3.407	4.0	19.1	7 30	20 0.12	-33 16.9	2.034	3.019	5.6	19.7
8 9	19 53.27	- 8 21.9	2.428	3.391	6.3	19.3	8 9	19 51.49	-33 7.9	2.076	3.022	8.4	19.9
8 19	19 46.55	- 8 32.7	2.470	3.374	9.0	19.4	8 19	19 44.54	-32 46.0	2.143	3.024	11.2	20.1
8 29	19 41.43	- 8 46.3	2.536	3.357	11.5	19.6	8 29	19 39.91	-32 13.5	2.232	3.026	13.8	20.2
244713	2003 <i>QZ</i> ₅₂		7 22.3 2°53'	0°1'/22.3	18		131184	2001 <i>CE</i> ₄₆		7 22.3 211°50'	4°3'/19.2	18	
6 20	20 30.03	-17 47.3	1.588	2.480	14.1	20.2	6 20	20 33.28	-29 15.9	2.154	3.037	11.3	20.0
6 30	20 25.11	-18 20.9	1.524	2.479	10.3	19.9	6 30	20 27.28	-30 40.7	2.084	3.032	8.4	19.8
7 10	20 17.99	-19 3.4	1.481	2.479	5.9	19.7	7 10	20 19.20	-32 5.3	2.039	3.027	5.6	19.6
7 20	20 9.43	-19 50.4	1.464	2.479	1.1	19.4	7 20	20 9.70	-33 23.0	2.022	3.021	4.3	19.5
7 30	20 0.52	-20 37.1	1.472	2.480	3.7	19.6	7 30	19 59.73	-34 27.9	2.033	3.014	6.0	19.6
8 9	19 52.46	-21 18.9	1.506	2.480	8.2	19.8	8 9	19 50.36	-35 16.1	2.070	3.007	8.9	19.8
8 19	19 46.24	-21 53.0	1.563	2.482	12.4	20.1	8 19	19 42.57	-35 46.8	2.133	3.000	11.8	19.9
8 29	19 42.59	-22 17.9	1.641	2.483	15.9	20.3	8 29	19 37.09	-36 1.2	2.216	2.993	14.4	20.1
97035	1999 <i>UB</i> ₈		7 22.3 331°86'	2°4'/21.3	18		465032	2006 <i>KT</i> ₈₇		7 22.3 28°73'	1°9'/22.9	17	
6 20	20 28.29	-23 30.1	1.282	2.194	15.4	18.3	6 20	20 31.58	-16 7.1	1.035	1.942	18.5	21.0
6 30	20 24.54	-24 2.6	1.207	2.172	11.3	18.0	6 30	20 26.81	-16 1.1	0.990	1.952	13.6	20.7
7 10	20 18.00	-24 40.0	1.152	2.152	6.6	17.7	7 10	20 19.14	-16 7.2	0.964	1.962	8.1	20.4
7 20	20 9.48	-25 16.6	1.119	2.133	2.5	17.4	7 20	20 9.68	-16 22.5	0.959	1.973	2.6	20.2
7 30	20 0.28	-25 46.2	1.110	2.115	5.4	17.5	7 30	20 0.03	-16 42.5	0.976	1.985	4.7	20.3
8 9	19 51.96	-26 4.3	1.124	2.098	10.5	17.7	8 9	19 51.82	-17 2.9	1.016	1.998	10.1	20.7
8 19	19 45.89	-26 9.1	1.158	2.082	15.3	18.0	8 19	19 46.25	-17 20.5	1.076	2.012	15.0	21.0
8 29	19 43.04	-26 1.0	1.211	2.068	19.4	18.2	8 29	19 44.05	-17 32.9	1.155	2.027	19.2	21.3
512147	2015 <i>PJ</i> ₁₃₁		7 22.3 301°24'	1°2'/21.8	18		250095	2002 <i>GL</i>					

EPHEMERIDES

7 22.3

7 22.3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
348115	2003 YA ₁₄₂	7 22.3 230°52		4.4/19.9 18			11716	Amahartman	7 22.3 343°29		1.9/21.6 18		
6 20	20 34.31	-31 54.6	2.208	3.088	11.2	21.5	6 20	20 29.54	-23 22.8	1.282	2.191	15.6	17.8
6 30	20 27.91	-32 37.5	2.135	3.079	8.4	21.3	6 30	20 25.32	-23 38.9	1.215	2.180	11.3	17.5
7 10	20 19.49	-33 16.4	2.085	3.070	5.7	21.1	7 10	20 18.37	-23 58.2	1.169	2.170	6.5	17.2
7 20	20 9.75	-33 46.1	2.063	3.061	4.4	21.0	7 20	20 9.59	-24 15.8	1.146	2.160	2.1	16.9
7 30	19 59.67	-34 2.8	2.068	3.051	5.8	21.1	7 30	20 0.34	-24 26.9	1.146	2.152	4.9	17.1
8 9	19 50.30	-34 4.6	2.100	3.041	8.6	21.2	8 9	19 52.12	-24 28.6	1.169	2.145	10.0	17.3
8 19	19 42.57	-33 51.9	2.156	3.030	11.5	21.4	8 19	19 46.18	-24 19.9	1.214	2.139	14.6	17.6
8 29	19 37.17	-33 27.1	2.234	3.019	14.0	21.5	8 29	19 43.39	-24 1.9	1.277	2.134	18.6	17.8
24843	1995 VZ	7 22.3 286°15		1.3/22.9 18			420432	2012 DO ₂₉	7 22.3 121°67		2.6/21.2 17		
6 20	20 32.29	-15 51.7	1.524	2.410	14.9	18.8	6 20	20 36.46	-24 57.1	1.631	2.520	14.0	22.1
6 30	20 27.12	-16 3.9	1.435	2.386	11.1	18.5	6 30	20 29.68	-25 37.3	1.578	2.532	10.1	21.9
7 10	20 19.39	-16 26.7	1.367	2.362	6.7	18.1	7 10	20 20.55	-26 18.2	1.548	2.544	5.9	21.6
7 20	20 9.79	-16 57.5	1.323	2.338	2.0	17.8	7 20	20 9.97	-26 54.2	1.543	2.555	2.7	21.5
7 30	19 59.44	-17 32.5	1.305	2.313	4.0	17.9	7 30	19 59.21	-27 20.4	1.565	2.566	4.9	21.6
8 9	19 49.71	-18 7.3	1.312	2.289	9.0	18.1	8 9	19 49.55	-27 34.3	1.613	2.576	8.9	21.9
8 19	19 41.85	-18 38.4	1.343	2.264	13.8	18.3	8 19	19 42.01	-27 35.9	1.685	2.586	12.7	22.1
8 29	19 36.84	-19 3.6	1.393	2.239	17.9	18.5	8 29	19 37.27	-27 26.7	1.778	2.596	15.8	22.4
470850	2008 YH ₄₀	7 22.3 224°91		1.1/21.6 18			240701	2005 GT ₃₀	7 22.3 341°12		1.9/23.3 18		
6 20	20 30.52	-19 36.5	2.000	2.883	12.0	21.2	6 20	20 29.19	-14 4.6	1.736	2.616	13.7	20.6
6 30	20 25.22	-20 41.2	1.927	2.879	8.7	21.0	6 30	20 24.37	-14 15.9	1.665	2.612	10.2	20.3
7 10	20 18.00	-21 53.2	1.879	2.876	4.9	20.8	7 10	20 17.54	-14 37.7	1.617	2.609	6.2	20.1
7 20	20 9.48	-23 7.4	1.857	2.872	1.3	20.5	7 20	20 9.42	-15 7.6	1.593	2.606	2.4	19.9
7 30	20 0.56	-24 18.3	1.863	2.867	3.7	20.7	7 30	20 0.96	-15 42.5	1.596	2.603	3.6	19.9
8 9	19 52.25	-25 21.1	1.897	2.863	7.5	20.9	8 9	19 53.22	-16 18.5	1.624	2.600	7.6	20.2
8 19	19 45.43	-26 12.9	1.956	2.858	11.1	21.1	8 19	19 47.12	-16 52.5	1.677	2.598	11.5	20.4
8 29	19 40.80	-26 52.5	2.037	2.854	14.1	21.3	8 29	19 43.34	-17 22.0	1.751	2.597	14.9	20.6
508209	2015 FF ₃₉₇	7 22.3 139°89		2.4/21.1 17			37284	2000 YG ₇₆	7 22.3 270°66		1.0/21.7 18		
6 20	20 34.82	-26 10.9	2.106	2.987	11.6	22.4	6 20	20 28.93	-20 19.5	2.276	3.157	10.8	18.7
6 30	20 28.08	-26 40.1	2.047	2.997	8.4	22.2	6 30	20 23.93	-21 10.1	2.193	3.145	7.8	18.4
7 10	20 19.47	-27 8.4	2.013	3.007	5.0	22.0	7 10	20 17.23	-22 6.3	2.135	3.132	4.4	18.2
7 20	20 9.73	-27 31.7	2.005	3.016	2.5	21.9	7 20	20 9.36	-23 4.3	2.105	3.120	1.2	18.0
7 30	19 59.84	-27 46.8	2.026	3.025	4.2	22.0	7 30	20 1.10	-23 59.8	2.102	3.107	3.3	18.1
8 9	19 50.79	-27 51.8	2.074	3.033	7.5	22.2	8 9	19 53.33	-24 49.1	2.128	3.094	6.9	18.3
8 19	19 43.41	-27 47.0	2.148	3.041	10.7	22.4	8 19	19 46.82	-25 29.7	2.179	3.081	10.1	18.5
8 29	19 38.29	-27 33.6	2.244	3.048	13.4	22.7	8 29	19 42.24	-26 0.6	2.253	3.068	13.0	18.7
400489	2008 HW ₅₇	7 22.3 63°92		1.8/23.6 18			111600	2002 AC ₈₀	7 22.3 336°61		2.9/21.2 18		
6 20	20 27.68	-12 7.8	2.210	3.076	11.7	21.3	6 20	20 29.34	-23 1.2	1.029	1.948	17.6	18.4
6 30	20 22.88	-12 41.9	2.141	3.080	8.7	21.1	6 30	20 25.74	-23 48.6	0.966	1.936	12.8	18.1
7 10	20 16.53	-13 26.6	2.095	3.084	5.4	20.9	7 10	20 18.89	-24 43.3	0.923	1.925	7.5	17.8
7 20	20 9.18	-14 19.3	2.076	3.088	2.3	20.7	7 20	20 9.74	-25 37.7	0.901	1.915	3.0	17.5
7 30	20 1.60	-15 16.4	2.085	3.092	3.0	20.8	7 30	19 59.88	-26 23.1	0.900	1.905	6.2	17.7
8 9	19 54.58	-16 14.0	2.122	3.096	6.3	21.0	8 9	19 51.21	-26 53.4	0.921	1.897	11.8	17.9
8 19	19 48.83	-17 8.8	2.185	3.100	9.5	21.2	8 19	19 45.29	-27 6.3	0.961	1.890	17.1	18.2
8 29	19 44.91	-17 58.1	2.271	3.104	12.3	21.4	8 29	19 43.14	-27 2.7	1.017	1.885	21.5	18.5
370367	2002 TV ₇	7 22.3 284°65		2.0/23.1 18			104946	2000 JU ₄₂	7 22.3 332°14		2.5/21.4 18		
6 20	20 32.31	-14 23.4	1.567	2.448	14.9	21.1	6 20	20 27.43	-21 56.8	0.966	1.890	18.0	18.7
6 30	20 27.09	-14 30.5	1.475	2.423	11.2	20.9	6 30	20 24.56	-22 42.3	0.899	1.871	13.2	18.4
7 10	20 19.36	-14 49.2	1.404	2.397	6.9	20.5	7 10	20 18.34	-23 37.9	0.851	1.854	7.6	18.0
7 20	20 9.79	-15 17.3	1.358	2.371	2.6	20.2	7 20	20 9.65	-24 36.2	0.823	1.837	2.6	17.7
7 30	19 59.46	-15 51.7	1.337	2.344	4.1	20.3	7 30	20 0.10	-25 28.0	0.815	1.822	6.2	17.8
8 9	19 49.70	-16 27.9	1.342	2.318	8.9	20.5	8 9	19 51.66	-26 6.1	0.829	1.808	12.2	18.1
8 19	19 41.73	-17 2.6	1.370	2.291	13.6	20.7	8 19	19 46.00	-26 26.8	0.860	1.796	17.8	18.4
8 29	19 36.52	-17 32.8	1.418	2.264	17.7	20.9	8 29	19 44.28	-26 30.0	0.908	1.786	22.6	18.6
100021	1990 QV ₇	7 22.3 324°91		0.4/22.4 18			177273	2003 WW ₁₂₆	7 22.3 260°30		3.2/20.9 18		
6 20	20 29.20	-18 28.1	1.214	2.121	16.5	18.6	6 20	20 34.71	-25 24.1	1.582	2.475	14.1	20.7
6 30	20 25.26	-18 38.4	1.138	2.101	12.1	18.3	6 30	20 28.85	-26 12.6	1.506	2.462	10.3	20.4
7 10	20 18.47	-18 58.3	1.082	2.082	7.1	18.0	7 10	20 20.35	-27 3.6	1.452	2.448	6.2	20.1
7 20	20 9.63	-19 24.2	1.048	2.063	1.5	17.6	7 20	20 10.00	-27 50.9	1.423	2.434	3.2	19.9
7 30	20 0.06	-19 51.3	1.037	2.046	4.4	17.7	7 30	19 59.04	-28 28.1	1.420	2.419	5.5	20.0
8 9	19 51.38	-20 15.0	1.049	2.029	10.1	18.0	8 9	19 48.91	-28 51.3	1.443	2.405	9.8	20.2
8 19	19 44.98	-20 32.3	1.081	2.014	15.3	18.2	8 19	19 40.86	-28 59.4	1.488	2.390	14.0	20.5
8 29	19 41.88	-20 41.5	1.132	1.999	19.8	18.5	8 29	19 35.78	-28 53.8	1.553	2.374	17.6	20.7
429140	2009 TW ₄₆	7 22.3 185°70		4.8/19.7 18			220652	2004 RD ₁₀₄	7 22.3 267°67		4.2/24.8 18		
6 20	20 37.39	-33 45.0	2.286	3.158	11.1	21.6	6 20	20 27.86	-6 9.0	2.481	3.319	11.5	20.7
6 30	20 30.03	-34 29.0	2.220	3.158	8.5	21.4	6 30	20 22.96	-5 59.6	2.389	3.303	9.1	20.5
7 10	20 20.65	-35 7.0	2.178	3.158	6.0	21.3	7 10	20 16.60	-6 1.8	2.320	3.287	6.5	20.3
7 20	20 9.99	-35 34.0	2.164	3.156	4.8	21.2	7 20	20 9.25	-6 15.6	2.277	3.270	4.5	20.2
7 30	19 59.06	-35 46.1	2.178	3.154	6.1	21.3	7 30	20 1.58	-6 39.9	2.262	3.254	4.6	20.1
8 9	19 48.96	-35 42.2	2.219	3.152	8.6	21.4	8 9	19 54.31	-7 12.5	2.274	3.237	6.7	20.2
8 19	19 40.58	-35 23.4	2.285	3.148	11.3	21.6	8 19	19 48.10	-7 50.5	2.312	3.220	9.4	20.4
8 29	19 34.59	-34 52.4	2.372	3.144	13.7	21.8	8 29	19 43.53	-8 31.0	2.373	3.203	12.0	20.5
291832	2006 LO ₄	7 22.3 356°06		6.8/22.4 18			217593	2008 FK ₃	7 22.3 353°51		0.3/22.4 17		
6 20	20 36.44	-13 23.5	1.222	2.108	17.8	18.1	6 20	20 28.70	-17 4.				

EPHEMERIDES

7 22.3

7 22.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
494301	2016 <i>SO</i> ₇		7 22.3 47°14'	7.2/25.1	17		262556	2006 <i>VL</i> ₂₄		7 22.3 276°91'	1.7/21.6	18	
6 20	20 31.89	- 4 6.2	1.603	2.451	16.3	20.2	6 20	20 33.06	-21 58.0	1.522	2.416	14.4	20.5
6 30	20 26.17	- 3 6.1	1.552	2.466	13.1	20.1	6 30	20 27.65	-22 37.7	1.446	2.404	10.5	20.3
7 10	20 18.48	- 2 23.6	1.521	2.481	9.9	19.9	7 10	20 19.69	-23 23.2	1.393	2.392	6.0	20.0
7 20	20 9.60	- 2 0.3	1.513	2.497	7.6	19.8	7 20	20 9.93	-24 9.0	1.365	2.379	1.9	19.7
7 30	20 0.60	- 1 56.3	1.531	2.513	7.5	19.9	7 30	19 59.60	-24 49.4	1.362	2.367	4.6	19.8
8 9	19 52.54	- 2 8.8	1.572	2.529	9.7	20.0	8 9	19 50.08	-25 19.9	1.384	2.354	9.4	20.1
8 19	19 46.29	- 2 34.0	1.637	2.546	12.6	20.2	8 19	19 42.60	-25 38.6	1.429	2.342	13.8	20.3
8 29	19 42.43	- 3 6.9	1.723	2.563	15.4	20.5	8 29	19 38.04	-25 45.5	1.494	2.329	17.5	20.5
174724	2003 <i>UZ</i> ₁₆₀		7 22.3 203°47'	1.1/21.9	17		119775	2002 <i>AX</i> ₂₉		7 22.3 57°71'	3.7/20.0	18	
6 20	20 34.96	-21 21.3	1.628	2.516	14.0	20.9	6 20	20 30.81	-28 11.1	2.027	2.917	11.6	19.2
6 30	20 28.74	-21 48.4	1.559	2.513	10.2	20.6	6 30	20 25.41	-29 12.4	1.972	2.925	8.5	19.0
7 10	20 20.13	-22 20.0	1.513	2.511	5.8	20.4	7 10	20 18.10	-30 12.5	1.941	2.933	5.4	18.8
7 20	20 9.95	-22 51.6	1.493	2.508	1.4	20.1	7 20	20 9.58	-31 6.0	1.936	2.941	3.7	18.7
7 30	19 59.38	-23 18.7	1.499	2.504	4.1	20.2	7 30	20 0.83	-31 48.2	1.959	2.949	5.3	18.8
8 9	19 49.71	-23 38.0	1.530	2.500	8.6	20.5	8 9	19 52.85	-32 16.3	2.008	2.958	8.3	19.0
8 19	19 42.03	-23 48.2	1.586	2.496	12.8	20.7	8 19	19 46.51	-32 29.9	2.081	2.967	11.3	19.3
8 29	19 37.10	-23 49.5	1.663	2.492	16.3	21.0	8 29	19 42.42	-32 30.4	2.175	2.975	13.9	19.5
512372	2016 <i>NZ</i> ₅₈		7 22.3 265°55'	0.4/22.2	17		173547	2000 <i>XC</i> ₂₈		7 22.3 303°36'	7.2/18.9	18	
6 20	20 31.83	-19 1.8	1.710	2.597	13.5	21.4	6 20	20 34.00	-31 44.1	1.278	2.184	15.9	19.6
6 30	20 26.46	-19 34.4	1.633	2.587	9.8	21.2	6 30	20 29.11	-33 7.3	1.207	2.165	12.1	19.3
7 10	20 18.85	-20 14.4	1.579	2.577	5.6	20.9	7 10	20 20.89	-34 29.0	1.157	2.146	8.6	19.1
7 20	20 9.72	-20 57.8	1.551	2.566	1.1	20.6	7 20	20 10.21	-35 38.7	1.130	2.127	7.2	18.9
7 30	20 0.12	-21 39.8	1.549	2.556	3.7	20.7	7 30	19 58.64	-36 26.3	1.126	2.109	9.4	19.0
8 9	19 51.23	-22 16.3	1.573	2.545	8.2	21.0	8 9	19 48.10	-36 46.6	1.144	2.091	13.4	19.2
8 19	19 44.10	-22 44.9	1.621	2.535	12.3	21.2	8 19	19 40.21	-36 40.1	1.182	2.074	17.6	19.4
8 29	19 39.51	-23 4.3	1.691	2.524	15.9	21.4	8 29	19 36.13	-36 10.9	1.237	2.057	21.3	19.6
404913	2014 <i>KL</i> ₉₇		7 22.3 2°67'	9.7/27.7	18		217242	2003 <i>KY</i> ₁₆		7 22.3 26°28'	3.1/24.6	18	
6 20	20 26.91	+ 5 30.6	1.892	2.690	16.0	20.0	6 20	20 26.74	- 7 35.6	1.683	2.549	14.7	19.0
6 30	20 22.55	+ 6 22.2	1.824	2.689	13.8	19.8	6 30	20 22.56	- 8 34.6	1.625	2.560	11.2	18.8
7 10	20 16.46	+ 6 51.7	1.775	2.689	11.7	19.7	7 10	20 16.51	- 9 52.2	1.589	2.573	7.3	18.6
7 20	20 9.24	+ 6 56.6	1.748	2.690	10.1	19.6	7 20	20 9.29	-11 24.4	1.578	2.585	3.8	18.4
7 30	20 1.75	+ 6 36.3	1.744	2.691	9.7	19.6	7 30	20 1.82	-13 5.0	1.594	2.599	4.0	18.4
8 9	19 54.86	+ 5 53.6	1.764	2.692	10.7	19.7	8 9	19 55.10	-14 46.8	1.636	2.613	7.5	18.7
8 19	19 49.38	+ 4 53.1	1.806	2.694	12.6	19.8	8 19	19 49.98	-16 23.4	1.703	2.628	11.1	18.9
8 29	19 45.92	+ 3 41.3	1.869	2.697	14.8	19.9	8 29	19 47.06	-17 50.0	1.793	2.644	14.4	19.2
72526	2001 <i>DV</i> ₉₂		7 22.3 236°27'	2.2/21.3	17		324093	2005 <i>WB</i> ₁₄₂		7 22.4 280°11'	0.1/22.4	18	
6 20	20 35.97	-23 58.7	1.809	2.693	13.0	21.1	6 20	20 29.73	-18 54.1	2.277	3.154	11.0	22.0
6 30	20 29.48	-24 34.8	1.728	2.680	9.5	20.9	6 30	20 24.52	-19 10.1	2.186	3.135	8.0	21.7
7 10	20 20.60	-25 13.5	1.669	2.665	5.6	20.6	7 10	20 17.60	-19 31.0	2.120	3.115	4.6	21.5
7 20	20 10.08	-25 49.8	1.637	2.650	2.2	20.3	7 20	20 9.51	-19 54.4	2.080	3.096	0.9	21.2
7 30	19 59.01	-26 18.8	1.633	2.635	4.5	20.5	7 30	20 1.03	-20 17.6	2.069	3.076	2.9	21.3
8 9	19 48.66	-26 37.2	1.655	2.618	8.7	20.7	8 9	19 53.03	-20 38.0	2.085	3.056	6.6	21.5
8 19	19 40.14	-26 44.1	1.701	2.601	12.6	20.9	8 19	19 46.29	-20 54.0	2.127	3.036	10.0	21.7
8 29	19 34.29	-26 40.3	1.769	2.583	16.1	21.1	8 29	19 41.47	-21 4.7	2.191	3.016	13.0	21.9
517201	2013 <i>VC</i> ₂₆		7 22.3 108°57'	2.6/20.6	18		424120	2007 <i>ET</i> ₁₁₉		7 22.4 149°81'	2.3/23.7	17	
6 20	20 32.52	-24 7.8	2.046	2.931	11.7	21.3	6 20	20 32.41	-11 41.8	2.144	3.001	12.3	22.6
6 30	20 26.56	-25 23.5	1.993	2.945	8.4	21.1	6 30	20 26.29	-11 58.3	2.078	3.011	9.2	22.4
7 10	20 18.72	-26 41.4	1.965	2.960	5.0	20.9	7 10	20 18.50	-12 25.0	2.035	3.020	5.8	22.2
7 20	20 9.69	-27 55.5	1.963	2.974	2.6	20.8	7 20	20 9.67	-12 59.7	2.020	3.029	2.7	22.0
7 30	20 0.42	-29 0.4	1.991	2.987	4.6	21.0	7 30	20 0.62	-13 39.6	2.032	3.037	3.4	22.1
8 9	19 51.91	-29 52.4	2.046	3.001	7.9	21.2	8 9	19 52.25	-14 21.4	2.073	3.044	6.6	22.3
8 19	19 45.00	-30 30.1	2.125	3.014	11.0	21.4	8 19	19 45.30	-15 2.0	2.140	3.051	9.9	22.5
8 29	19 40.32	-30 54.0	2.227	3.027	13.6	21.6	8 29	19 40.34	-15 39.2	2.230	3.056	12.8	22.7
312521	2009 <i>DV</i> ₄₄		7 22.3 183°29'	4.1/24.5	17		289737	2005 <i>JE</i> ₃₃		7 22.4 15°78'	0.6/22.6	18	
6 20	20 34.07	- 7 44.2	1.857	2.706	14.3	22.2	6 20	20 30.45	-17 29.4	1.877	2.759	12.7	20.8
6 30	20 27.77	- 7 52.5	1.783	2.707	11.1	22.0	6 30	20 25.16	-17 44.0	1.809	2.759	9.3	20.6
7 10	20 19.47	- 8 15.8	1.731	2.708	7.5	21.8	7 10	20 17.97	-18 5.4	1.764	2.760	5.4	20.4
7 20	20 9.86	- 8 52.8	1.705	2.707	4.5	21.6	7 20	20 9.58	-18 30.8	1.746	2.761	1.3	20.1
7 30	19 59.88	- 9 40.6	1.706	2.706	4.7	21.6	7 30	20 0.91	-18 56.9	1.754	2.761	3.2	20.2
8 9	19 50.60	-10 34.9	1.734	2.704	7.9	21.8	8 9	19 52.98	-19 20.8	1.788	2.762	7.3	20.5
8 19	19 42.93	-11 31.4	1.788	2.700	11.4	22.0	8 19	19 46.64	-19 40.5	1.848	2.764	10.9	20.7
8 29	19 37.57	-12 26.1	1.864	2.696	14.7	22.2	8 29	19 42.52	-19 54.7	1.929	2.765	14.1	20.9
166158	2002 <i>EE</i> ₃₁		7 22.3 153°24'	1.2/21.8	17		295125	2008 <i>FF</i> ₂₄		7 22.4 47°03'	3.3/24.5	18	
6 20	20 36.09	-21 35.1	1.586	2.473	14.4	20.6	6 20	20 27.63	- 8 23.8	2.114	2.970	12.6	20.6
6 30	20 29.52	-22 3.4	1.525	2.479	10.4	20.3	6 30	20 22.91	- 8 40.9	2.046	2.974	9.6	20.5
7 10	20 20.56	-22 35.8	1.486	2.484	5.9	20.1	7 10	20 16.61	- 9 11.1	2.000	2.979	6.5	20.3
7 20	20 10.06	-23 7.5	1.473	2.488	1.5	19.8	7 20	20 9.32	- 9 52.8	1.980	2.983	3.8	20.1
7 30	19 59.27	-23 33.9	1.487	2.492	4.2	20.0	7 30	20 1.79	-10 43.1	1.987	2.988	3.9	20.1
8 9	19 49.51	-23 52.0	1.526	2.496	8.7	20.3	8 9	19 54.85	-11 38.1	2.021	2.993	6.7	20.3
8 19	19 41.84	-24 0.6	1.590	2.499	12.8	20.6	8 19	19 49.21	-12 34.2	2.081	2.998	9.8	20.5
8 29	19 36.98	-24 0.3	1.674	2.502	16.2	20.8	8 29	19 45.44	-13 27.7	2.163	3.003	12.6	20.7
270288	2001 <i>VV</i> ₈₂		7 22.3 300°34'	4.9/19.8	18		352573	2008 <i></i>					

EPHEMERIDES

7 22.4

7 22.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
74688	1999 RW ₁₂₈	7 22.4 297°16		1.4/22.8 18			428525	2008 AD ₇₇	7 22.4 292°25		2.1/21.4 18		
6 20	20 32.48	-16 36.1	1.366	2.259	15.9	19.1	6 20	20 32.34	-21 10.5	1.371	2.271	15.4	20.8
6 30	20 27.39	-16 37.1	1.289	2.244	11.8	18.8	6 30	20 27.58	-22 9.5	1.287	2.248	11.3	20.5
7 10	20 19.62	-16 47.7	1.233	2.229	7.0	18.5	7 10	20 19.92	-23 18.8	1.225	2.224	6.5	20.2
7 20	20 9.95	-17 5.5	1.200	2.214	2.1	18.2	7 20	20 10.08	-24 31.8	1.186	2.200	2.2	19.8
7 30	19 59.66	-17 26.7	1.191	2.199	4.2	18.3	7 30	19 59.33	-25 40.4	1.172	2.176	5.3	20.0
8 9	19 50.22	-17 47.6	1.207	2.185	9.4	18.5	8 9	19 49.24	-26 37.4	1.182	2.152	10.6	20.2
8 19	19 42.90	-18 5.3	1.245	2.171	14.3	18.8	8 19	19 41.30	-27 19.0	1.214	2.128	15.5	20.4
8 29	19 38.64	-18 18.1	1.302	2.157	18.5	19.0	8 29	19 36.62	-27 44.3	1.264	2.105	19.8	20.6
492350	2014 HX ₁₃	7 22.4 45°83		1.1/22.9 15			328103	2008 AO ₂₃	7 22.4 268°41		0.4/22.1 18		
6 20	20 29.86	-16 1.6	1.783	2.665	13.3	21.3	6 20	20 32.30	-17 53.6	1.509	2.399	14.8	20.8
6 30	20 24.65	-16 15.4	1.732	2.682	9.7	21.1	6 30	20 27.13	-18 45.1	1.432	2.387	10.8	20.5
7 10	20 17.62	-16 37.2	1.704	2.698	5.7	20.9	7 10	20 19.44	-19 47.8	1.377	2.375	6.2	20.3
7 20	20 9.51	-17 4.3	1.701	2.715	1.7	20.6	7 20	20 9.95	-20 56.5	1.347	2.363	1.2	19.9
7 30	20 1.28	-17 33.2	1.725	2.733	3.2	20.8	7 30	19 59.84	-22 4.6	1.343	2.350	4.1	20.1
8 9	19 53.91	-18 0.8	1.775	2.750	7.2	21.1	8 9	19 50.47	-23 5.8	1.365	2.338	9.1	20.3
8 19	19 48.20	-18 24.8	1.849	2.768	10.8	21.3	8 19	19 43.04	-23 56.1	1.409	2.325	13.7	20.6
8 29	19 44.70	-18 43.8	1.946	2.786	13.8	21.6	8 29	19 38.48	-24 33.7	1.474	2.313	17.5	20.8
307080	2002 AJ ₈₅	7 22.4 162°51		3.4/24.1 18			342993	2009 BW ₆₀	7 22.4 250°91		0.5/22.2 18		
6 20	20 29.55	-9 46.7	2.239	3.094	12.0	20.2	6 20	20 34.02	-21 33.4	2.046	2.925	12.0	21.1
6 30	20 24.21	-9 31.3	2.166	3.094	9.2	20.0	6 30	20 27.74	-21 32.3	1.963	2.913	8.7	20.9
7 10	20 17.32	-9 25.9	2.117	3.095	6.2	19.9	7 10	20 19.48	-21 33.2	1.904	2.900	5.0	20.6
7 20	20 9.46	-9 29.9	2.093	3.096	3.8	19.7	7 20	20 9.93	-21 33.5	1.872	2.888	1.0	20.3
7 30	20 1.37	-9 42.1	2.097	3.096	4.1	19.7	7 30	20 0.02	-21 30.9	1.868	2.875	3.3	20.5
8 9	19 53.87	-10 0.4	2.129	3.097	6.7	19.9	8 9	19 50.78	-21 24.0	1.892	2.862	7.3	20.7
8 19	19 47.64	-10 22.3	2.185	3.097	9.7	20.1	8 19	19 43.12	-21 12.2	1.941	2.848	10.9	20.9
8 29	19 43.25	-10 45.4	2.265	3.098	12.4	20.3	8 29	19 37.71	-20 55.9	2.012	2.834	14.1	21.1
359887	2011 WN ₄₄	7 22.4 303°69		0.4/22.6 18			501663	2014 SF ₃₃₈	7 22.4 351°55		0.4/22.5 17		
6 20	20 30.39	-18 17.7	2.029	2.909	12.0	21.2	6 20	20 24.59	-16 52.8	0.839	1.768	19.6	20.3
6 30	20 25.04	-18 25.0	1.956	2.905	8.7	21.0	6 30	20 22.54	-17 26.3	0.785	1.758	14.4	20.0
7 10	20 17.88	-18 37.6	1.907	2.902	5.0	20.7	7 10	20 17.20	-18 17.1	0.748	1.750	8.4	19.7
7 20	20 9.58	-18 53.1	1.883	2.898	1.1	20.5	7 20	20 9.55	-19 19.5	0.729	1.744	1.7	19.2
7 30	20 1.00	-19 9.0	1.888	2.895	3.0	20.6	7 30	20 1.24	-20 24.7	0.730	1.740	5.1	19.4
8 9	19 53.09	-19 22.8	1.919	2.892	6.9	20.8	8 9	19 54.23	-21 23.6	0.751	1.738	11.6	19.8
8 19	19 46.65	-19 33.0	1.975	2.889	10.5	21.0	8 19	19 50.07	-22 10.0	0.789	1.738	17.4	20.1
8 29	19 42.32	-19 38.8	2.054	2.886	13.5	21.2	8 29	19 49.76	-22 40.6	0.844	1.739	22.2	20.4
171130	2005 GC ₃₁	7 22.4 342°09		1.8/23.2 18			251317	2007 BV ₄	7 22.4 291°67		5.2/19.1 18		
6 20	20 27.12	-13 42.5	1.110	2.015	17.8	18.9	6 20	20 31.80	-32 25.6	2.056	2.943	11.6	19.9
6 30	20 23.82	-14 15.4	1.045	2.005	13.2	18.6	6 30	20 26.38	-33 30.3	1.985	2.931	8.8	19.7
7 10	20 17.70	-15 6.9	0.998	1.996	8.0	18.3	7 10	20 18.82	-34 31.6	1.937	2.920	6.2	19.5
7 20	20 9.60	-16 12.8	0.973	1.987	2.7	17.9	7 20	20 9.82	-35 23.5	1.915	2.909	5.2	19.5
7 30	20 0.88	-17 26.3	0.971	1.980	4.5	18.0	7 30	20 0.38	-36 0.7	1.920	2.897	6.7	19.5
8 9	19 53.14	-18 39.0	0.991	1.974	10.1	18.3	8 9	19 51.62	-36 20.6	1.950	2.886	9.4	19.7
8 19	19 47.73	-19 44.3	1.031	1.969	15.3	18.6	8 19	19 44.53	-36 23.0	2.004	2.875	12.3	19.8
8 29	19 45.61	-20 37.6	1.090	1.966	19.8	18.8	8 29	19 39.87	-36 10.0	2.078	2.864	14.9	20.0
280304	2003 QM ₃₀	7 22.4 11°69		1.2/22.7 16			207900	2008 UQ ₇₁	7 22.4 348°10		3.4/20.9 16		
6 20	20 32.73	-19 0.0	1.342	2.240	15.8	20.1	6 20	20 33.13	-27 10.6	1.642	2.537	13.5	20.2
6 30	20 27.29	-18 29.5	1.285	2.242	11.6	19.8	6 30	20 27.48	-27 44.3	1.579	2.535	9.9	20.0
7 10	20 19.35	-18 3.9	1.248	2.245	6.8	19.5	7 10	20 19.47	-28 17.0	1.538	2.533	6.0	19.7
7 20	20 9.87	-17 41.7	1.235	2.249	1.8	19.2	7 20	20 9.94	-28 43.5	1.522	2.532	3.4	19.6
7 30	20 0.17	-17 21.6	1.246	2.254	4.0	19.4	7 30	20 0.08	-28 59.1	1.532	2.530	5.4	19.7
8 9	19 51.63	-17 2.3	1.282	2.260	9.0	19.7	8 9	19 51.20	-29 1.4	1.568	2.530	9.2	19.9
8 19	19 45.32	-16 43.2	1.340	2.267	13.4	20.0	8 19	19 44.33	-28 50.9	1.626	2.529	13.0	20.1
8 29	19 41.94	-16 24.0	1.418	2.274	17.1	20.2	8 29	19 40.21	-28 29.2	1.705	2.528	16.2	20.3
49800	1999 XL ₃₄	7 22.4 217°17		1.3/22.9 18			24996	1998 OD ₁	7 22.4 321°07		2.8/23.2 18		
6 20	20 33.26	-15 19.8	1.821	2.695	13.4	19.7	6 20	20 31.62	-14 54.5	1.290	2.184	16.6	18.0
6 30	20 27.34	-15 36.3	1.744	2.689	9.9	19.5	6 30	20 26.83	-14 29.4	1.217	2.170	12.5	17.8
7 10	20 19.31	-16 1.9	1.690	2.683	5.9	19.2	7 10	20 19.32	-14 14.2	1.163	2.157	7.8	17.4
7 20	20 9.88	-16 34.1	1.662	2.676	1.9	19.0	7 20	20 9.94	-14 8.1	1.132	2.144	3.4	17.2
7 30	20 0.03	-17 9.1	1.661	2.668	3.4	19.1	7 30	19 59.99	-14 9.3	1.125	2.132	4.8	17.2
8 9	19 50.88	-17 43.5	1.686	2.660	7.7	19.3	8 9	19 50.94	-14 15.1	1.141	2.120	9.7	17.5
8 19	19 43.39	-18 14.5	1.737	2.651	11.6	19.5	8 19	19 44.08	-14 23.0	1.179	2.109	14.5	17.7
8 29	19 38.29	-18 40.1	1.810	2.642	15.0	19.7	8 29	19 40.32	-14 30.6	1.236	2.099	18.7	17.9
190565	2000 SU ₁₃₁	7 22.4 40°36		9.7/21.9 18			457734	2009 HJ ₃	7 22.4 76°42		14.5/13.9 17		
6 20	20 54.60	-45 28.1	1.447	2.302	17.3	18.5	6 20	20 46.39	-49 18.1	1.381	2.240	17.8	20.5
6 30	20 43.03	-45 14.3	1.397	2.312	14.2	18.4	6 30	20 38.61	-52 1.6	1.367	2.263	15.7	20.4
7 10	20 28.05	-44 35.4	1.369	2.323	11.3	18.2	7 10	20 26.44	-54 17.7	1.375	2.286	14.6	20.4
7 20	20 11.47	-43 24.2	1.364	2.334	9.8	18.2	7 20	20 11.33	-55 52.9	1.403	2.308	14.7	20.5
7 30	19 55.52	-41 40.0	1.385	2.345	10.5	18.2	7 30	19 55.73	-56 40.3	1.452	2.331	15.9	20.6
8 9	19 42.19	-39 29.8	1.432	2.357	12.9	18.4	8 9	19 42.30	-56 41.9	1.521	2.353	17.6	20.8
8 19	19 32.59	-37 4.4	1.502	2.370	15.9	18.6	8 19	19 32.90	-56 6.5	1.605	2.375	19.4	21.0
8 29	19 27.14	-34 34.6	1.593	2.382	18.6	18.9	8 29	19 28.38	-55 4.4	1.704	2.397	20.9	21.2
247415	2002 CH ₁₉₆	7 22.4 260°77		1.1/22.9 16			34588	2000 TL	7 22.4 12°17		2.8/21.8 18		

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7 22.4

7 22.4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
180795	2004 <i>YT</i> ₄		7 22.4 223°20	3°0/21.9	16		319262	2006 <i>BX</i> ₅		7 22.4 229°76	7°4/16.3	18	R
6 20	20 47.25	-28 31.9	1.271	2.159	17.2	20.0	6 20	20 37.64	-47 30.5	3.042	3.874	9.8	21.5
6 30	20 38.30	-28 5.0	1.201	2.153	12.7	19.7	6 30	20 30.28	-48 28.3	2.975	3.861	8.4	21.4
7 10	20 25.87	-27 30.0	1.152	2.147	7.6	19.4	7 10	20 20.93	-49 14.7	2.932	3.848	7.5	21.3
7 20	20 11.20	-26 42.0	1.128	2.140	3.2	19.1	7 20	20 10.27	-49 44.7	2.915	3.835	7.4	21.3
7 30	19 56.17	-25 39.1	1.129	2.133	5.7	19.3	7 30	19 59.26	-49 54.8	2.924	3.821	8.2	21.3
8 9	19 42.76	-24 23.6	1.156	2.125	11.0	19.5	8 9	19 48.95	-49 44.5	2.958	3.806	9.5	21.4
8 19	19 32.46	-23 1.3	1.207	2.117	15.9	19.8	8 19	19 40.24	-49 15.4	3.014	3.791	11.0	21.5
8 29	19 26.13	-21 37.6	1.277	2.108	20.1	20.1	8 29	19 33.82	-48 30.8	3.091	3.776	12.5	21.6
34397	2000 <i>RJ</i> ₇₆		7 22.4 318°72	0°1/22.4	18		93793	2000 <i>WL</i> ₄₁		7 22.4 224°99	4°6/24.5	18	
6 20	20 29.13	-18 23.0	1.847	2.733	12.7	19.0	6 20	20 31.99	-7 16.3	2.137	2.980	12.9	19.8
6 30	20 24.37	-18 49.1	1.771	2.724	9.2	18.7	6 30	20 26.15	-6 50.2	2.054	2.972	10.1	19.6
7 10	20 17.65	-19 22.3	1.717	2.714	5.3	18.5	7 10	20 18.56	-6 35.8	1.993	2.963	7.2	19.4
7 20	20 9.60	-19 59.3	1.690	2.705	1.0	18.2	7 20	20 9.81	-6 33.2	1.959	2.954	4.9	19.2
7 30	20 1.17	-20 36.2	1.689	2.696	3.3	18.3	7 30	20 0.72	-6 41.9	1.952	2.944	5.1	19.2
8 9	19 53.39	-21 9.3	1.714	2.688	7.5	18.6	8 9	19 52.18	-6 59.7	1.971	2.934	7.6	19.4
8 19	19 47.18	-21 36.3	1.764	2.680	11.4	18.8	8 19	19 44.97	-7 24.1	2.017	2.924	10.6	19.5
8 29	19 43.22	-21 55.9	1.835	2.672	14.7	19.0	8 29	19 39.75	-7 52.1	2.085	2.913	13.5	19.7
211926	2004 <i>UF</i> ₁₁		7 22.4 278°22	4°6/20.7	17		476067	2007 <i>SF</i> ₂₁		7 22.4 233°06	4°2/19.9	18	
6 20	20 37.02	-28 38.0	1.383	2.281	15.4	20.6	6 20	20 35.37	-32 48.1	2.456	3.330	10.4	22.3
6 30	20 30.99	-29 18.1	1.306	2.263	11.5	20.4	6 30	20 28.62	-33 23.8	2.376	3.317	7.9	22.1
7 10	20 21.84	-29 57.0	1.251	2.245	7.3	20.1	7 10	20 19.98	-33 54.9	2.321	3.303	5.5	22.0
7 20	20 10.47	-30 27.1	1.220	2.227	4.6	19.9	7 20	20 10.09	-34 16.8	2.293	3.289	4.2	21.9
7 30	19 58.36	-30 41.7	1.213	2.209	6.9	20.0	7 30	19 59.85	-34 26.1	2.293	3.274	5.5	21.9
8 9	19 47.25	-30 37.6	1.230	2.191	11.3	20.2	8 9	19 50.25	-34 21.3	2.321	3.259	8.0	22.1
8 19	19 38.63	-30 15.6	1.269	2.172	15.8	20.4	8 19	19 42.15	-34 3.0	2.374	3.243	10.7	22.2
8 29	19 33.52	-29 39.2	1.326	2.154	19.7	20.6	8 29	19 36.22	-33 33.4	2.449	3.226	13.2	22.4
95483	2002 <i>EE</i> ₁₉		7 22.4 52°32	3°9/24.1	18		62935	2000 <i>VP</i> ₂₂		7 22.4 128°35	1°0/21.9	18	
6 20	20 31.40	-9 58.5	1.916	2.775	13.5	18.7	6 20	20 36.79	-21 10.8	1.650	2.534	14.1	19.8
6 30	20 25.56	-9 27.2	1.867	2.798	10.3	18.5	6 30	20 29.91	-21 37.3	1.595	2.547	10.2	19.6
7 10	20 18.07	-9 7.0	1.842	2.820	6.9	18.4	7 10	20 20.76	-22 7.7	1.563	2.560	5.7	19.4
7 20	20 9.65	-8 57.6	1.841	2.843	4.3	18.3	7 20	20 10.23	-22 37.5	1.556	2.571	1.4	19.1
7 30	20 1.18	-8 57.9	1.868	2.866	4.6	18.3	7 30	19 59.52	-23 2.4	1.577	2.583	3.9	19.3
8 9	19 53.58	-9 5.7	1.920	2.889	7.3	18.6	8 9	19 49.85	-23 19.7	1.624	2.593	8.3	19.6
8 19	19 47.53	-9 18.6	1.998	2.912	10.4	18.8	8 19	19 42.23	-23 28.5	1.695	2.604	12.2	19.9
8 29	19 43.56	-9 34.0	2.099	2.935	13.1	19.0	8 29	19 37.32	-23 29.0	1.788	2.613	15.5	20.1
55002	2001 <i>QF</i> ₁₉		7 22.4 216°77	0°6/22.7	18		385534	2004 <i>RD</i> ₅		7 22.4 273°20	2°5/23.8	18	
6 20	20 30.48	-17 16.3	2.106	2.982	11.8	19.1	6 20	20 30.93	-11 2.8	1.887	2.751	13.5	21.4
6 30	20 25.06	-17 30.5	2.033	2.980	8.6	18.9	6 30	20 25.80	-11 31.5	1.791	2.728	10.2	21.1
7 10	20 17.91	-17 50.8	1.984	2.978	5.0	18.7	7 10	20 18.59	-12 14.6	1.717	2.703	6.5	20.8
7 20	20 9.65	-18 14.9	1.961	2.976	1.2	18.4	7 20	20 9.87	-13 10.0	1.669	2.679	3.0	20.6
7 30	20 1.10	-18 39.9	1.966	2.974	2.9	18.5	7 30	20 0.53	-14 13.9	1.648	2.654	3.8	20.6
8 9	19 53.20	-19 3.1	1.998	2.971	6.7	18.8	8 9	19 51.61	-15 21.4	1.654	2.629	7.7	20.7
8 19	19 46.70	-19 22.7	2.056	2.969	10.2	19.0	8 19	19 44.12	-16 27.7	1.686	2.603	11.7	20.9
8 29	19 42.23	-19 37.4	2.137	2.966	13.1	19.2	8 29	19 38.89	-17 28.9	1.740	2.577	15.3	21.1
501654	2014 <i>SD</i> ₂₉₉		7 22.4 183°14	3°4/23.7	17		96804	1999 <i>RD</i> ₁₃₇		7 22.4 302°96	3°3/21.3	18	
6 20	20 34.94	-11 44.7	1.590	2.459	15.3	21.2	6 20	20 35.66	-28 10.7	1.659	2.550	13.7	19.0
6 30	20 28.69	-11 34.7	1.521	2.460	11.6	21.0	6 30	20 29.35	-28 20.8	1.587	2.541	10.0	18.8
7 10	20 20.14	-11 36.8	1.474	2.460	7.5	20.7	7 10	20 20.59	-28 27.7	1.539	2.533	6.2	18.5
7 20	20 10.10	-11 49.9	1.451	2.460	3.8	20.5	7 20	20 10.24	-28 26.9	1.515	2.525	3.3	18.3
7 30	19 59.69	-12 11.5	1.455	2.459	4.6	20.6	7 30	19 59.53	-28 14.7	1.518	2.518	5.2	18.4
8 9	19 50.15	-12 38.2	1.485	2.458	8.5	20.8	8 9	19 49.83	-27 50.3	1.547	2.510	9.2	18.7
8 19	19 42.53	-13 6.7	1.538	2.456	12.6	21.0	8 19	19 42.20	-27 15.1	1.599	2.503	13.1	18.9
8 29	19 37.57	-13 34.1	1.613	2.454	16.2	21.3	8 29	19 37.43	-26 31.5	1.671	2.495	16.4	19.1
497085	2003 <i>WS</i> ₉₁		7 22.4 247°91	2°0/21.3	17		388615	2007 <i>SO</i> ₅		7 22.4 302°85	5°6/25.5	18	
6 20	20 34.78	-22 27.5	1.745	2.631	13.3	22.4	6 20	20 28.34	-4 19.6	1.767	2.615	15.0	20.7
6 30	20 28.78	-23 19.4	1.661	2.615	9.7	22.1	6 30	20 23.86	-4 18.2	1.685	2.603	12.0	20.4
7 10	20 20.35	-24 16.8	1.601	2.598	5.6	21.8	7 10	20 17.41	-4 35.2	1.624	2.592	8.7	20.2
7 20	20 10.17	-25 14.3	1.567	2.580	2.1	21.6	7 20	20 9.62	-5 10.8	1.587	2.580	6.1	20.0
7 30	19 59.34	-26 5.8	1.560	2.562	4.6	21.7	7 30	20 1.39	-6 2.8	1.576	2.569	6.0	20.0
8 9	19 49.16	-26 46.6	1.579	2.543	8.9	21.9	8 9	19 53.74	-7 6.9	1.590	2.558	8.5	20.1
8 19	19 40.79	-27 14.7	1.622	2.524	13.0	22.1	8 19	19 47.57	-8 17.6	1.628	2.547	11.9	20.3
8 29	19 35.11	-27 29.9	1.686	2.504	16.6	22.3	8 29	19 43.64	-9 29.5	1.688	2.537	15.2	20.5
362836	2012 <i>BH</i>		7 22.4 303°45	0°5/22.1	18		437442	2013 <i>YK</i> ₆		7 22.4 204°70	0°8/21.9	18	
6 20	20 31.21	-21 36.2	2.124	3.006	11.5	20.5	6 20	20 32.66	-20 38.5	2.198	3.074	11.3	21.7
6 30	20 25.61	-21 37.2	2.048	2.999	8.3	20.3	6 30	20 26.67	-21 10.3	2.121	3.070	8.2	21.5
7 10	20 18.23	-21 40.4	1.996	2.993	4.7	20.1	7 10	20 18.87	-21 46.3	2.069	3.065	4.7	21.3
7 20	20 9.71	-21 43.2	1.971	2.986	1.0	19.8	7 20	20 9.89	-22 23.1	2.044	3.059	1.1	21.0
7 30	20 0.93	-21 43.6	1.973	2.980	3.1	20.0	7 30	20 0.58	-22 56.8	2.048	3.053	3.2	21.2
8 9	19 52.81	-21 39.9	2.003	2.974	6.9	20.2	8 9	19 51.88	-23 24.9	2.079	3.047	6.9	21.4
8 19	19 46.16	-21 31.5	2.058	2.968	10.3	20.4	8 19	19 44.59	-23 45.5	2.137	3.040	10.3	21.6
8 29	19 41.59	-21 18.6	2.136	2.962	13.3	20.6	8 29	19 39.38	-23 58.3	2.217	3.032	13.2	21.8
159012	2004 <i>TT</i> ₁₉		7 22.4 346°31	9°1/17.6	17		382088	2011 <i>FL</i> ₁₄₂					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
342547	2008 UR ₂₃₀	7 22.4 246°01 12°1/29.6 18											
6 20	20 29.47	+12 35.5	1.932	2.678	17.4	20.4	251860	1999 UL ₃₄	7 22.4 271°70 0°8/21.9 18				
6 30	20 24.53	+13 33.4	1.858	2.673	15.7	20.2	6 20	20 29.86	-21 14.1	2.360	3.239	10.6	21.6
7 10	20 17.73	+14 5.3	1.802	2.669	13.9	20.1	6 30	20 24.63	-21 38.3	2.274	3.224	7.7	21.4
7 20	20 9.69	+14 7.4	1.767	2.664	12.6	20.0	7 10	20 17.73	-22 5.8	2.212	3.209	4.4	21.1
7 30	20 1.26	+13 38.1	1.752	2.660	12.1	20.0	7 20	20 9.71	-22 34.0	2.178	3.193	1.0	20.9
8 9	19 53.41	+12 39.9	1.761	2.655	12.7	20.0	7 30	20 1.35	-22 59.6	2.172	3.177	3.1	21.0
8 19	19 46.98	+11 18.1	1.790	2.650	14.1	20.1	8 9	19 53.47	-23 20.3	2.193	3.162	6.5	21.2
8 29	19 42.67	+9 40.0	1.841	2.645	15.9	20.2	8 19	19 46.84	-23 34.7	2.241	3.146	9.8	21.4
							8 29	19 42.09	-23 42.2	2.311	3.129	12.6	21.5
476792	2008 UU ₁₅₆	7 22.4 211°93 4°7/19.4 18											
6 20	20 34.76	-32 13.5	2.256	3.134	11.0	21.9	186036	2001 RA ₈₄	7 22.4 337°28 2°6/23.3 18				
6 30	20 28.34	-33 12.7	2.185	3.128	8.3	21.8	6 20	20 26.47	-14 21.2	1.110	2.017	17.6	19.6
7 10	20 19.90	-34 8.3	2.139	3.121	5.8	21.6	6 30	20 23.46	-14 19.5	1.038	1.999	13.2	19.3
7 20	20 10.11	-34 54.7	2.119	3.114	4.7	21.5	7 10	20 17.62	-14 32.5	0.985	1.982	8.2	18.9
7 30	19 59.93	-35 27.3	2.128	3.106	6.1	21.6	7 20	20 9.75	-14 58.6	0.953	1.966	3.3	18.6
8 9	19 50.43	-35 43.8	2.163	3.098	8.7	21.7	7 30	20 1.19	-15 33.7	0.943	1.952	4.8	18.6
8 19	19 42.53	-35 44.4	2.223	3.089	11.5	21.9	8 9	19 53.54	-16 12.5	0.955	1.939	10.2	18.9
8 29	19 36.94	-35 31.1	2.304	3.080	13.9	22.1	8 19	19 48.19	-16 49.7	0.987	1.928	15.5	19.1
							8 29	19 46.14	-17 21.4	1.036	1.918	20.1	19.4
283662	2002 PD ₃₃	7 22.4 325°19 1°8/23.1 18											
6 20	20 29.87	-15 59.7	1.537	2.426	14.6	19.8	507238	2011 AZ ₆₈	7 22.4 188°19 0°3/22.5 17				
6 30	20 25.26	-15 51.4	1.459	2.411	10.9	19.5	6 20	20 34.33	-18 18.9	1.943	2.818	12.7	22.8
7 10	20 18.34	-15 51.7	1.402	2.396	6.6	19.2	6 30	20 28.01	-18 34.9	1.871	2.818	9.2	22.6
7 20	20 9.83	-15 58.9	1.368	2.382	2.3	18.9	7 10	20 19.70	-18 56.7	1.822	2.817	5.3	22.4
7 30	20 0.83	-16 10.4	1.360	2.368	3.9	19.0	7 20	20 10.11	-19 21.2	1.800	2.816	1.1	22.1
8 9	19 52.57	-16 23.5	1.377	2.355	8.5	19.2	7 30	20 0.20	-19 45.2	1.806	2.814	3.2	22.2
8 19	19 46.15	-16 35.7	1.417	2.343	12.9	19.5	8 9	19 51.03	-20 5.9	1.839	2.811	7.3	22.5
8 29	19 42.37	-16 45.1	1.477	2.332	16.7	19.7	8 19	19 43.49	-20 21.7	1.898	2.808	11.0	22.7
							8 29	19 38.25	-20 31.7	1.979	2.804	14.2	22.9
127903	2003 GT ₂₂	7 22.4 15°56 3°5/23.5 18											
6 20	20 27.98	-13 44.9	0.870	1.788	20.2	18.0	102619	1999 VK ₂₃	7 22.4 270°15 3°8/20.4 18				
6 30	20 24.65	-13 28.4	0.828	1.793	15.1	17.7	6 20	20 35.33	-26 26.9	1.645	2.536	13.7	20.3
7 10	20 18.20	-13 29.3	0.802	1.799	9.4	17.4	6 30	20 29.51	-27 28.3	1.559	2.513	10.1	20.0
7 20	20 9.79	-13 45.5	0.795	1.808	4.2	17.2	7 10	20 20.97	-28 32.8	1.496	2.490	6.3	19.7
7 30	20 1.10	-14 12.5	0.809	1.818	5.4	17.3	7 20	20 10.42	-29 33.3	1.458	2.466	3.8	19.5
8 9	19 53.90	-14 44.5	0.844	1.830	10.9	17.6	7 30	19 59.07	-30 22.7	1.446	2.442	6.1	19.6
8 19	19 49.47	-15 16.1	0.897	1.843	16.0	18.0	8 9	19 48.36	-30 56.2	1.460	2.417	10.2	19.8
8 29	19 48.59	-15 42.9	0.967	1.858	20.4	18.3	8 19	19 39.63	-31 12.1	1.497	2.391	14.4	20.0
							8 29	19 33.88	-31 11.8	1.553	2.366	18.0	20.2
386973	2012 KR ₄₁	7 22.4 311°13 7°0/25.1 17											
6 20	20 30.08	-4 49.8	1.442	2.303	17.1	20.7	34016	Chaitanya	7 22.4 319°32 1°5/22.9 18				
6 30	20 25.47	-4 14.4	1.367	2.291	13.8	20.5	6 20	20 29.72	-15 33.3	1.136	2.040	17.5	18.0
7 10	20 18.49	-3 57.9	1.310	2.279	10.2	20.2	6 30	20 25.87	-15 50.1	1.063	2.023	13.1	17.7
7 20	20 9.87	-4 2.1	1.276	2.268	7.5	20.0	7 10	20 19.04	-16 21.6	1.009	2.006	7.8	17.4
7 30	20 0.72	-4 26.4	1.266	2.257	7.4	20.0	7 20	20 10.05	-17 4.5	0.976	1.991	2.3	17.0
8 9	19 52.30	-5 7.2	1.279	2.247	10.2	20.1	7 30	20 0.28	-17 53.3	0.966	1.975	4.6	17.1
8 19	19 45.72	-5 59.3	1.315	2.237	14.0	20.3	8 9	19 51.42	-18 41.4	0.979	1.961	10.4	17.4
8 29	19 41.86	-6 56.6	1.370	2.227	17.6	20.5	8 19	19 44.92	-19 23.9	1.012	1.947	15.8	17.6
							8 29	19 41.86	-19 57.3	1.063	1.935	20.4	17.9
33233	1998 GT ₆	7 22.4 90°05 2°0/21.1 18											
6 20	20 33.86	-21 33.6	1.792	2.678	13.1	17.9	359711	2011 TX ₅	7 22.4 247°08 4°6/25.1 18				
6 30	20 27.70	-22 52.6	1.746	2.699	9.3	17.7	6 20	20 28.62	-5 14.3	2.342	3.178	12.2	20.9
7 10	20 19.50	-24 16.0	1.724	2.721	5.3	17.5	6 30	20 23.63	-5 6.2	2.257	3.169	9.7	20.7
7 20	20 10.04	-25 37.2	1.729	2.742	2.1	17.3	7 10	20 17.12	-5 11.2	2.195	3.159	7.0	20.5
7 30	20 0.39	-26 49.8	1.762	2.763	4.4	17.5	7 20	20 9.61	-5 29.1	2.158	3.149	4.9	20.4
8 9	19 51.65	-27 49.3	1.822	2.784	8.2	17.8	7 30	20 1.78	-5 58.6	2.149	3.139	4.9	20.4
8 19	19 44.74	-28 34.1	1.906	2.804	11.6	18.0	8 9	19 54.40	-6 37.2	2.167	3.129	7.0	20.5
8 29	19 40.27	-29 4.3	2.012	2.824	14.5	18.3	8 19	19 48.18	-7 21.6	2.210	3.119	9.7	20.6
							8 29	19 43.68	-8 8.4	2.277	3.109	12.4	20.8
512659	2016 TN ₇₁	7 22.4 179°14 0°5/22.1 18											
6 20	20 30.64	-19 54.3	2.011	2.894	12.0	21.0	521636	2015 QJ ₁₆	7 22.4 22°07 4°2/25.0 18				
6 30	20 25.30	-20 25.0	1.942	2.894	8.7	20.8	6 20	20 27.47	-6 31.4	2.123	2.971	12.8	21.0
7 10	20 18.13	-21 0.8	1.897	2.894	4.9	20.6	6 30	20 22.86	-6 33.5	2.052	2.974	10.0	20.8
7 20	20 9.78	-21 38.1	1.878	2.894	1.0	20.3	7 10	20 16.68	-6 49.5	2.004	2.976	7.0	20.6
7 30	20 1.15	-22 13.1	1.887	2.894	3.3	20.5	7 20	20 9.51	-7 18.5	1.981	2.979	4.6	20.5
8 9	19 53.19	-22 42.8	1.923	2.894	7.1	20.8	7 30	20 2.11	-7 58.4	1.985	2.981	4.6	20.5
8 19	19 46.74	-23 5.4	1.984	2.894	10.6	21.0	8 9	19 55.27	-8 45.7	2.016	2.984	7.0	20.6
8 29	19 42.43	-23 20.1	2.067	2.894	13.6	21.2	8 19	19 49.71	-9 36.8	2.071	2.988	9.9	20.8
							8 29	19 45.99	-10 28.0	2.150	2.991	12.7	21.0
261705	2005 YQ ₂₇₀	7 22.4 209°88 0°5/22.8 18											
6 20	20 28.30	-16 40.8	2.625	3.495	10.0	21.1	23271	Kellychacon	7 22.4 259°32 3°7/24.2 18				
6 30	20 23.27	-17 6.0	2.548	3.492	7.3	20.9	6 20	20 32.05	-9 45.9	1.563	2.432	15.5	19.2
7 10	20 16.84	-17 37.0	2.495	3.488	4.2	20.7	6 30	20 26.83	-9 54.0	1.483	2.420	11.9	18.9
7 20	20 9.52	-18 11.6	2.470	3.485	1.1	20.4	7 10	20 19.27	-10 18.2	1.424	2.408	7.9	18.6
7 30	20 1.97	-18 47.1	2.474	3.481	2.5	20.5	7 20	20 10.07	-10 57.1	1.389	2.396	4.3	18.4
8 9	19 54.87	-19 20.9	2.506	3.477	5.6	20.8	7 30	20 0.29	-11 47.3	1.379	2.383	4.8	18.4
8 19	19 48.86	-19 51.2	2.565	3.473	8.6	20.9	8 9	19 51.21	-12 43.8	1.395	2.371	8.7	18.6
8 29	19 44.46	-20 16.6	2.647	3.469	11.1	21.1	8 19	19 43.90	-13 41.6	1.435	2.358	13.0	18.8
							8 29	19 39.25	-14 36.3	1.496	2.344	16.8	19.0
423983	2006 VV<												

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
237154	2008 <i>UR</i> ₉₆		7 22.4 253°50	5°1/25.5	18	R	33770	1999 <i>RF</i> ₁₂₈		7 22.4 206°71	1°7/23.5	18	
6 20	20 29.73	- 4 8.3	2.011	2.849	13.8	20.4	6 20	20 28.96	-13 15.5	2.469	3.330	10.8	18.7
6 30	20 24.71	- 4 15.2	1.924	2.836	11.0	20.2	6 30	20 23.81	-13 28.7	2.391	3.328	8.0	18.5
7 10	20 17.87	- 4 39.3	1.858	2.823	8.0	20.0	7 10	20 17.21	-13 50.0	2.337	3.324	5.0	18.3
7 20	20 9.78	- 5 20.1	1.817	2.809	5.6	19.8	7 20	20 9.66	-14 17.5	2.310	3.321	2.1	18.1
7 30	20 1.25	- 6 15.6	1.803	2.795	5.4	19.8	7 30	20 1.87	-14 49.1	2.312	3.318	2.8	18.1
8 9	19 53.21	- 7 21.6	1.815	2.781	7.8	19.9	8 9	19 54.57	-15 22.0	2.341	3.314	5.9	18.3
8 19	19 46.50	- 8 33.3	1.853	2.767	11.0	20.0	8 19	19 48.41	-15 54.1	2.398	3.310	8.9	18.5
8 29	19 41.82	- 9 45.7	1.914	2.752	14.1	20.2	8 29	19 43.94	-16 23.2	2.478	3.306	11.6	18.7
201684	2003 <i>UC</i> ₁₀₄		7 22.4 130°51	0°7/22.7	18		88994	2001 <i>TX</i> ₇₄		7 22.4 333°67	0°2/22.5	18	
6 20	20 34.48	-18 51.5	1.975	2.850	12.5	19.8	6 20	20 28.55	-18 6.4	1.226	2.132	16.3	19.2
6 30	20 27.97	-18 37.8	1.909	2.856	9.1	19.6	6 30	20 24.83	-18 30.7	1.155	2.117	12.0	18.9
7 10	20 19.60	-18 27.9	1.867	2.862	5.3	19.4	7 10	20 18.36	-19 6.0	1.103	2.103	7.0	18.5
7 20	20 10.09	-18 19.9	1.852	2.867	1.3	19.1	7 20	20 9.95	-19 48.0	1.074	2.090	1.4	18.1
7 30	20 0.41	-18 12.2	1.864	2.872	3.1	19.3	7 30	20 0.91	-20 31.1	1.069	2.078	4.3	18.3
8 9	19 51.56	-18 3.5	1.904	2.877	7.0	19.5	8 9	19 52.77	-21 9.6	1.086	2.067	9.9	18.6
8 19	19 44.34	-17 53.2	1.970	2.881	10.6	19.7	8 19	19 46.85	-21 39.8	1.125	2.057	14.9	18.9
8 29	19 39.37	-17 41.0	2.058	2.886	13.6	20.0	8 29	19 44.12	-21 59.7	1.181	2.048	19.2	19.1
469471	2002 <i>RE</i> ₁₈₉		7 22.4 273°71	5°3/25.4	18		186808	2004 <i>EQ</i> ₇₆		7 22.4 154°66	0°2/22.5	17	
6 20	20 30.08	- 3 16.5	2.272	3.098	12.8	21.8	6 20	20 34.33	-17 52.2	1.819	2.697	13.3	21.5
6 30	20 24.90	- 3 11.5	2.165	3.069	10.4	21.6	6 30	20 28.08	-18 18.1	1.755	2.703	9.7	21.3
7 10	20 17.99	- 3 21.7	2.081	3.039	7.8	21.4	7 10	20 19.79	-18 51.0	1.714	2.709	5.5	21.1
7 20	20 9.82	- 3 47.6	2.023	3.009	5.7	21.2	7 20	20 10.19	-19 27.2	1.699	2.714	1.2	20.8
7 30	20 1.11	- 4 28.1	1.991	2.978	5.6	21.1	7 30	20 0.31	-20 2.6	1.712	2.719	3.3	21.0
8 9	19 52.72	- 5 20.6	1.987	2.946	7.7	21.2	8 9	19 51.26	-20 34.0	1.751	2.723	7.6	21.2
8 19	19 45.45	- 6 21.2	2.008	2.914	10.7	21.3	8 19	19 43.94	-20 59.0	1.816	2.727	11.4	21.5
8 29	19 40.00	- 7 25.4	2.053	2.882	13.6	21.4	8 29	19 39.04	-21 17.0	1.902	2.730	14.6	21.7
250928	2005 <i>WR</i> ₁₁₄		7 22.4 240°53	3°3/24.0	18		261503	2005 <i>WY</i> ₃₀		7 22.4 355°55	0°1/22.4	18	
6 20	20 30.63	- 9 49.1	2.632	3.476	10.7	20.8	6 20	20 29.83	-19 41.9	1.975	2.860	12.1	20.5
6 30	20 24.93	- 9 23.2	2.542	3.464	8.3	20.6	6 30	20 24.74	-19 51.9	1.906	2.858	8.8	20.3
7 10	20 17.81	- 9 5.1	2.477	3.452	5.6	20.4	7 10	20 17.85	-20 6.4	1.860	2.857	5.0	20.0
7 20	20 9.75	- 8 54.7	2.439	3.440	3.5	20.3	7 20	20 9.80	-20 22.7	1.841	2.856	1.0	19.8
7 30	20 1.42	- 8 51.5	2.430	3.427	3.8	20.3	7 30	20 1.50	-20 37.9	1.848	2.855	3.1	19.9
8 9	19 53.52	- 8 54.3	2.449	3.414	6.2	20.4	8 9	19 53.90	-20 49.8	1.882	2.855	7.0	20.2
8 19	19 46.69	- 9 1.5	2.495	3.400	8.9	20.5	8 19	19 47.81	-20 57.0	1.941	2.855	10.6	20.4
8 29	19 41.48	- 9 11.4	2.565	3.386	11.4	20.7	8 29	19 43.84	-20 58.9	2.021	2.855	13.6	20.6
369762	2012 <i>FR</i> ₇₆		7 22.4 169°24	1°5/23.1	17		441299	2007 <i>YB</i> ₅₅		7 22.4 233°34	1°8/21.2	18	
6 20	20 37.77	-14 44.2	1.624	2.502	14.6	21.6	6 20	20 30.64	-22 33.3	2.212	3.094	11.1	21.7
6 30	20 27.88	-15 3.2	1.558	2.504	10.8	21.3	6 30	20 25.32	-23 30.3	2.136	3.088	8.0	21.5
7 10	20 19.75	-15 33.0	1.513	2.506	6.5	21.1	7 10	20 18.20	-24 31.3	2.086	3.082	4.6	21.2
7 20	20 10.16	-16 10.4	1.494	2.508	2.2	20.8	7 20	20 9.89	-25 31.8	2.062	3.075	1.8	21.0
7 30	20 0.21	-16 51.3	1.501	2.509	3.7	20.9	7 30	20 1.19	-26 27.2	2.067	3.068	3.8	21.2
8 9	19 51.12	-17 31.4	1.535	2.510	8.1	21.2	8 9	19 53.04	-27 13.7	2.099	3.061	7.2	21.4
8 19	19 43.90	-18 7.4	1.592	2.510	12.2	21.4	8 19	19 46.27	-27 49.4	2.157	3.054	10.5	21.6
8 29	19 39.27	-18 37.3	1.671	2.510	15.8	21.7	8 29	19 41.52	-28 13.9	2.238	3.047	13.3	21.7
396256	2014 <i>CD</i> ₄		7 22.4 301°37	2°0/21.6	17		321452	2009 <i>RC</i> ₂		7 22.4 248°21	6°0/26.9	18	
6 20	20 33.44	-24 30.6	1.765	2.655	13.0	20.6	6 20	20 26.81	+ 0 59.5	2.473	3.279	12.5	20.6
6 30	20 27.59	-24 49.3	1.697	2.652	9.5	20.4	6 30	20 22.25	+ 1 0.7	2.393	3.276	10.3	20.4
7 10	20 19.56	-25 8.8	1.652	2.648	5.5	20.2	7 10	20 16.32	+ 0 45.3	2.335	3.273	8.1	20.3
7 20	20 10.12	-25 25.1	1.632	2.645	2.1	19.9	7 20	20 9.50	+ 0 13.1	2.301	3.270	6.4	20.2
7 30	20 0.36	-25 34.5	1.639	2.642	4.3	20.1	7 30	20 2.43	- 0 34.6	2.294	3.267	6.1	20.1
8 9	19 51.47	-25 34.9	1.671	2.639	8.3	20.3	8 9	19 55.80	- 1 34.7	2.314	3.264	7.4	20.2
8 19	19 44.42	-25 26.1	1.728	2.636	12.1	20.5	8 19	19 50.23	- 2 43.1	2.359	3.261	9.5	20.4
8 29	19 39.92	-25 9.2	1.806	2.633	15.3	20.7	8 29	19 46.25	- 3 55.5	2.428	3.257	11.8	20.5
498509	2008 <i>DA</i> ₄₀		7 22.4 144°76	1°2/23.0	17		391893	2008 <i>UX</i> ₇₆		7 22.4 250°10	0°6/22.1	18	
6 20	20 34.55	-15 35.4	1.797	2.670	13.6	22.5	6 20	20 32.94	-20 35.2	2.073	2.952	11.8	22.5
6 30	20 28.20	-15 50.5	1.734	2.678	10.0	22.3	6 30	20 27.09	-20 56.0	1.987	2.936	8.6	22.2
7 10	20 19.81	-16 14.1	1.694	2.687	5.9	22.1	7 10	20 19.27	-21 21.0	1.925	2.921	4.9	22.0
7 20	20 10.16	-16 43.3	1.680	2.694	1.8	21.8	7 20	20 10.11	-21 47.0	1.889	2.905	1.1	21.7
7 30	20 0.27	-17 14.5	1.694	2.702	3.4	21.9	7 30	20 0.51	-22 10.7	1.882	2.888	3.3	21.8
8 9	19 51.22	-17 44.6	1.735	2.708	7.5	22.2	8 9	19 51.49	-22 29.3	1.902	2.871	7.3	22.0
8 19	19 43.93	-18 10.9	1.801	2.714	11.3	22.4	8 19	19 43.94	-22 41.4	1.947	2.854	10.9	22.2
8 29	19 39.03	-18 32.1	1.888	2.720	14.5	22.7	8 29	19 38.58	-22 46.4	2.015	2.837	14.1	22.4
92120	1999 <i>XV</i> ₈₄		7 22.4 234°00	0°5/22.8	18		354065	2001 <i>TV</i> ₁₃₂		7 22.4 285°44	1°5/22.9	18	
6 20	20 28.85	-17 9.3	2.810	3.677	9.5	20.2	6 20	20 32.22	-16 37.3	2.023	2.897	12.3	20.7
6 30	20 23.64	-17 27.2	2.723	3.666	6.9	20.0	6 30	20 26.54	-16 20.4	1.934	2.879	9.1	20.4
7 10	20 17.08	-17 50.1	2.662	3.654	4.0	19.8	7 10	20 18.94	-16 8.6	1.869	2.861	5.5	20.2
7 20	20 9.63	-18 16.0	2.628	3.643	1.0	19.6	7 20	20 10.04	-16 0.9	1.831	2.844	1.9	19.9
7 30	20 1.92	-18 42.7	2.623	3.630	2.4	19.7	7 30	20 0.74	-15 55.7	1.819	2.826	3.3	20.0
8 9	19 54.60	-19 8.1	2.647	3.618	5.4	19.8	8 9	19 52.01	-15 51.6	1.835	2.808	7.2	20.2
8 19	19 48.30	-19 30.5	2.698	3.605	8.3	20.0	8 19	19 44.74	-15 47.5	1.876	2.791	10.9	20.4
8 29	19 43.52	-19 48.8	2.773	3.592	10.8	20.2	8 29	19 39.64	-15 42.3	1.940	2.773	14.1	20.6
432748	2011 <i>EA</i> ₂₄		7 22.4 211°40	1°1/21.9	17		255059	2005 <i>T</i>					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
2590	Mourão		7 22.4 284°63	4.7/24.2	18	R	102473	1999 TW ₂₄₄		7 22.4 216°99	4.8/25.6	18	
6 20	20 32.11	-9 28.2	1.474	2.345	16.2	16.0	6 20	20 30.48	-2 50.6	2.603	3.419	11.7	21.1
6 30	20 27.00	-9 8.0	1.395	2.332	12.6	15.7	6 30	20 24.89	-2 47.0	2.512	3.409	9.4	20.9
7 10	20 19.44	-9 2.7	1.337	2.319	8.6	15.4	7 10	20 17.86	-2 57.0	2.445	3.398	7.0	20.7
7 20	20 10.18	-9 12.4	1.301	2.305	5.2	15.2	7 20	20 9.87	-3 20.3	2.403	3.386	5.2	20.6
7 30	20 0.34	-9 35.4	1.291	2.292	5.6	15.2	7 30	20 1.55	-3 55.9	2.390	3.373	5.1	20.6
8 9	19 51.23	-10 8.1	1.305	2.279	9.4	15.4	8 9	19 53.62	-4 41.2	2.404	3.360	6.8	20.6
8 19	19 44.01	-10 46.3	1.342	2.266	13.6	15.6	8 19	19 46.75	-5 33.1	2.446	3.346	9.3	20.8
8 29	19 39.55	-11 25.6	1.399	2.253	17.5	15.8	8 29	19 41.47	-6 27.8	2.511	3.332	11.7	20.9
506034	2015 KS ₁₉		7 22.4 147°37	3.5/20.3	17		467928	2012 AE ₂₂		7 22.4 128°62	9.8/16.2	16	
6 20	20 35.00	-28 59.4	2.251	3.129	11.0	21.9	6 20	20 44.49	-43 20.5	1.859	2.717	13.9	21.7
6 30	20 28.35	-29 49.8	2.193	3.139	8.1	21.8	6 30	20 36.14	-45 21.7	1.825	2.735	11.6	21.6
7 10	20 19.86	-30 37.9	2.160	3.149	5.2	21.6	7 10	20 24.71	-47 7.5	1.815	2.753	10.1	21.5
7 20	20 10.21	-31 18.8	2.154	3.158	3.5	21.5	7 20	20 11.25	-48 28.1	1.830	2.769	9.9	21.6
7 30	20 0.35	-31 48.5	2.177	3.166	5.0	21.6	7 30	19 57.35	-49 16.9	1.870	2.785	11.1	21.7
8 9	19 51.26	-32 5.2	2.227	3.174	7.8	21.8	8 9	19 44.76	-49 33.4	1.934	2.800	13.0	21.8
8 19	19 43.76	-32 8.8	2.302	3.181	10.6	22.0	8 19	19 34.83	-49 21.5	2.019	2.814	15.1	22.0
8 29	19 38.46	-32 0.9	2.399	3.187	13.1	22.2	8 29	19 28.43	-48 47.7	2.121	2.827	17.0	22.2
352223	2007 TD ₅₆		7 22.4 260°24	4.2/20.0	18		274627	2008 TE ₈₂		7 22.4 350°90	9.0/25.2	18	
6 20	20 34.29	-30 46.9	2.162	3.043	11.3	21.8	6 20	20 15.80	-7 6.9	0.816	1.736	20.9	17.8
6 30	20 28.17	-31 33.3	2.079	3.025	8.5	21.6	6 30	20 16.07	-5 57.9	0.754	1.714	17.0	17.5
7 10	20 19.95	-32 17.1	2.020	3.007	5.7	21.4	7 10	20 13.58	-5 11.6	0.708	1.695	12.8	17.2
7 20	20 10.27	-32 53.1	1.988	2.988	4.2	21.2	7 20	20 9.08	-4 53.5	0.678	1.678	9.6	16.9
7 30	20 0.11	-33 16.7	1.983	2.969	5.7	21.3	7 30	20 3.96	-5 5.6	0.666	1.666	9.5	16.9
8 9	19 50.57	-33 25.5	2.005	2.949	8.7	21.5	8 9	19 59.87	-5 43.9	0.671	1.657	12.8	17.0
8 19	19 42.63	-33 19.5	2.051	2.929	11.8	21.6	8 19	19 58.20	-6 40.7	0.693	1.652	17.3	17.2
8 29	19 37.03	-33 0.6	2.118	2.909	14.6	21.8	8 29	20 0.00	-7 45.5	0.730	1.651	21.7	17.5
522749	2016 MK ₄		7 22.4 280°69	5.9/25.6	18		93098	2000 ST ₃₉		7 22.4 312°93	1.2/21.8	18	
6 20	20 29.78	-3 37.9	1.748	2.592	15.3	21.1	6 20	20 30.69	-20 21.7	1.507	2.404	14.4	19.6
6 30	20 25.06	-3 40.8	1.658	2.573	12.3	20.9	6 30	20 26.05	-21 6.2	1.433	2.392	10.5	19.3
7 10	20 18.26	-4 3.6	1.588	2.554	9.1	20.6	7 10	20 18.94	-21 58.6	1.381	2.380	6.0	19.1
7 20	20 9.96	-4 46.6	1.542	2.534	6.4	20.5	7 20	20 10.13	-22 53.8	1.353	2.368	1.5	18.7
7 30	20 1.07	-5 47.6	1.522	2.515	6.2	20.4	7 30	20 0.75	-23 45.8	1.350	2.357	4.3	18.9
8 9	19 52.68	-7 2.1	1.527	2.495	8.9	20.5	8 9	19 52.15	-24 29.3	1.373	2.346	9.1	19.1
8 19	19 45.79	-8 24.0	1.556	2.475	12.4	20.7	8 19	19 45.48	-25 1.4	1.418	2.335	13.5	19.4
8 29	19 41.21	-9 47.1	1.608	2.455	15.9	20.8	8 29	19 41.62	-25 21.3	1.483	2.325	17.3	19.6
261666	2005 YM ₁₃₆		7 22.4 333°09	2.7/20.9	18		61776	2000 QP ₁₇₂		7 22.4 86°46	2.9/23.7	18	
6 20	20 29.10	-25 17.3	1.890	2.784	12.1	20.0	6 20	20 33.77	-12 42.8	1.651	2.522	14.7	18.9
6 30	20 24.48	-26 4.0	1.817	2.774	8.8	19.8	6 30	20 27.69	-12 29.9	1.595	2.535	11.0	18.7
7 10	20 17.84	-26 52.7	1.768	2.764	5.3	19.6	7 10	20 19.57	-12 27.6	1.561	2.548	7.0	18.5
7 20	20 9.86	-27 38.4	1.745	2.755	2.7	19.4	7 20	20 10.21	-12 34.8	1.552	2.561	3.4	18.3
7 30	20 1.48	-28 16.4	1.748	2.747	4.7	19.5	7 30	20 0.68	-12 48.9	1.569	2.574	4.1	18.4
8 9	19 53.77	-28 43.4	1.776	2.739	8.3	19.7	8 9	19 52.11	-13 7.2	1.612	2.586	7.9	18.7
8 19	19 47.67	-28 57.9	1.829	2.731	11.8	19.9	8 19	19 45.37	-13 27.0	1.680	2.599	11.7	18.9
8 29	19 43.88	-29 0.5	1.903	2.724	14.8	20.1	8 29	19 41.10	-13 45.7	1.769	2.611	14.9	19.2
357152	2002 CO ₁₅		7 22.4 285°65	20.1/2.5	17		511117	2013 WK ₄₆		7 22.4 290°86	1.2/21.9	18	
6 20	20 33.01	+23 50.5	1.420	2.110	24.9	20.8	6 20	20 32.53	-20 35.2	1.517	2.411	14.5	21.5
6 30	20 28.34	+24 43.0	1.318	2.075	23.7	20.6	6 30	20 27.52	-21 13.5	1.431	2.388	10.6	21.2
7 10	20 20.67	+24 53.4	1.227	2.039	22.3	20.4	7 10	20 19.90	-21 59.6	1.368	2.366	6.1	20.9
7 20	20 10.53	+24 9.8	1.150	2.003	21.0	20.1	7 20	20 10.35	-22 48.8	1.329	2.344	1.5	20.6
7 30	19 59.04	+22 22.0	1.089	1.965	20.2	20.0	7 30	20 0.06	-23 35.1	1.315	2.321	4.4	20.7
8 9	19 47.76	+19 27.9	1.047	1.927	20.4	19.8	8 9	19 50.42	-24 13.4	1.326	2.299	9.4	20.9
8 19	19 38.27	+15 34.7	1.024	1.888	21.8	19.8	8 19	19 42.72	-24 40.7	1.361	2.276	14.1	21.2
8 29	19 31.98	+10 58.8	1.021	1.849	24.3	19.8	8 29	19 37.95	-24 56.4	1.414	2.254	18.1	21.4
45172	1999 XG ₁₃₄		7 22.4 267°63	0.3/22.5	18		469948	2006 BT ₁₁₁		7 22.4 180°32	0.5/22.2	17	
6 20	20 43.22	-22 39.8	1.623	2.499	14.7	17.9	6 20	20 33.26	-20 3.1	2.022	2.900	12.1	22.5
6 30	20 34.94	-21 46.6	1.535	2.482	10.8	17.6	6 30	20 27.24	-20 29.1	1.952	2.901	8.8	22.3
7 10	20 23.93	-20 50.0	1.471	2.466	6.3	17.3	7 10	20 19.32	-20 59.7	1.906	2.902	5.0	22.0
7 20	20 11.08	-19 48.6	1.433	2.449	1.3	16.9	7 20	20 10.19	-21 31.3	1.887	2.902	1.0	21.7
7 30	19 57.74	-18 42.5	1.424	2.431	3.9	17.1	7 30	20 0.76	-22 0.6	1.895	2.902	3.3	21.9
8 9	19 45.41	-17 33.7	1.443	2.414	9.0	17.3	8 9	19 52.04	-22 24.5	1.931	2.901	7.2	22.2
8 19	19 35.32	-16 25.0	1.487	2.396	13.5	17.5	8 19	19 44.88	-22 41.6	1.993	2.900	10.7	22.4
8 29	19 28.32	-15 19.0	1.553	2.378	17.4	17.8	8 29	19 39.92	-22 51.4	2.077	2.899	13.7	22.6
211169	2002 JT		7 22.4 51°56	4.0/24.5	17		248079	2004 PE ₁₀₀		7 22.4 339°70	13.4/14.2	18	
6 20	20 32.44	-8 43.8	1.128	2.013	19.1	19.8	6 20	20 46.37	-58 3.4	1.997	2.799	15.2	19.6
6 30	20 27.22	-9 14.3	1.092	2.037	14.4	19.5	6 30	20 38.13	-59 20.1	1.954	2.794	14.1	19.5
7 10	20 19.43	-10 6.5	1.074	2.062	9.3	19.3	7 10	20 26.06	-60 13.0	1.931	2.788	13.5	19.4
7 20	20 10.14	-11 15.7	1.079	2.087	4.8	19.2	7 20	20 11.54	-60 33.6	1.927	2.783	13.6	19.4
7 30	20 0.79	-12 34.7	1.107	2.113	5.1	19.3	7 30	19 56.73	-60 17.1	1.944	2.779	14.3	19.5
8 9	19 52.80	-13 55.1	1.159	2.139	9.4	19.6	8 9	19 43.88	-59 24.8	1.980	2.775	15.4	19.5
8 19	19 47.22	-15 10.2	1.233	2.166	13.8	19.9	8 19	19 34.55	-58 2.6	2.034	2.771	16.8	19.6
8 29	19 44.68	-16 15.3	1.327	2.192	17.6	20.2	8 29	19 29.51	-56 18.4	2.104	2.768	18.1	19.8
229093	2004 PV ₁₁₂		7 22.4 180°47	0.2/22.3	18		177081	2003 FX ₅₂		7 22.4 162°49	2.2/23.9	18	
6 20	20 31.70	-16 18.2	1.										

EPHEMERIDES

7 22.4

7 22.5

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
189330	2007 <i>DS</i> ₅₆		7 22.4 353°18	2°9/24.3	18		328515	2009 <i>QR</i> ₁₉		7 22.4 358°81	0°2/22.5	17	
6 20	20 27.47	-9 35.8	2.058	2.920	12.6	19.8	6 20	20 29.64	-18 50.6	1.100	2.012	17.4	20.3
6 30	20 23.00	-9 57.1	1.985	2.918	9.6	19.6	6 30	20 25.71	-18 59.6	1.044	2.008	12.7	20.1
7 10	20 16.89	-10 31.3	1.934	2.917	6.3	19.4	7 10	20 18.90	-19 17.7	1.006	2.006	7.3	19.8
7 20	20 9.71	-11 16.6	1.909	2.916	3.4	19.3	7 20	20 10.17	-19 41.0	0.989	2.005	1.5	19.4
7 30	20 2.24	-12 9.9	1.911	2.915	3.7	19.3	7 30	20 1.01	-20 4.3	0.996	2.005	4.4	19.6
8 9	19 55.34	-13 7.1	1.940	2.914	6.8	19.5	8 9	19 53.04	-20 23.4	1.024	2.006	10.1	19.9
8 19	19 49.74	-14 4.3	1.994	2.914	10.1	19.7	8 19	19 47.54	-20 35.6	1.073	2.009	15.1	20.2
8 29	19 46.05	-14 58.1	2.071	2.914	13.0	19.9	8 29	19 45.37	-20 39.7	1.140	2.012	19.3	20.5
149310	2002 <i>UY</i> ₁₉		7 22.4 270°50	0°8/21.9	18		294512	2007 <i>XS</i> ₁₀		7 22.4 201°47	1°6/21.7	17	
6 20	20 32.51	-19 6.2	1.614	2.503	14.1	19.9	6 20	20 36.52	-22 43.9	1.755	2.638	13.4	22.2
6 30	20 27.31	-19 56.9	1.534	2.488	10.3	19.7	6 30	20 29.94	-23 15.0	1.683	2.635	9.7	22.0
7 10	20 19.68	-20 57.1	1.476	2.473	5.9	19.4	7 10	20 21.04	-23 49.3	1.635	2.631	5.6	21.7
7 20	20 10.32	-22 1.7	1.443	2.458	1.3	19.0	7 20	20 10.58	-24 22.1	1.612	2.627	1.8	21.5
7 30	20 0.32	-23 4.5	1.436	2.442	4.1	19.2	7 30	19 59.72	-24 48.7	1.617	2.621	4.2	21.6
8 9	19 50.98	-23 59.8	1.455	2.427	8.8	19.4	8 9	19 49.70	-25 6.2	1.649	2.616	8.4	21.9
8 19	19 43.46	-24 44.1	1.498	2.411	13.2	19.7	8 19	19 41.57	-25 13.5	1.705	2.609	12.4	22.1
8 29	19 38.67	-25 16.0	1.562	2.395	16.9	19.9	8 29	19 36.10	-25 11.4	1.782	2.602	15.7	22.3
86578	2000 <i>EE</i> ₄₈		7 22.4 97°61	4°3/20.9	18		488345	2016 <i>WH</i> ₂		7 22.4 266°44	0°3/22.2	18	
6 20	20 38.78	-27 54.4	1.300	2.198	16.2	19.3	6 20	20 29.38	-18 22.8	2.189	3.068	11.3	20.8
6 30	20 32.04	-28 34.7	1.250	2.207	11.8	19.0	6 30	20 24.43	-19 9.2	2.111	3.060	8.2	20.6
7 10	20 22.34	-29 12.7	1.221	2.216	7.3	18.8	7 10	20 17.75	-20 2.6	2.057	3.053	4.7	20.4
7 20	20 10.81	-29 41.1	1.216	2.225	4.3	18.6	7 20	20 9.92	-20 59.3	2.029	3.045	0.9	20.1
7 30	19 59.04	-29 54.0	1.236	2.233	6.5	18.8	7 30	20 1.73	-21 55.1	2.030	3.037	3.0	20.3
8 9	19 48.71	-29 49.7	1.279	2.242	10.8	19.1	8 9	19 54.05	-22 46.1	2.059	3.029	6.7	20.5
8 19	19 41.06	-29 29.7	1.345	2.250	14.9	19.3	8 19	19 47.68	-23 29.7	2.113	3.021	10.1	20.7
8 29	19 36.85	-28 57.6	1.429	2.258	18.5	19.6	8 29	19 43.26	-24 4.4	2.190	3.013	13.1	20.9
392769	2012 <i>TY</i> ₇₀		7 22.4 194°81	5°2/25.7	18		428764	2008 <i>SQ</i> ₁₄₆		7 22.5 41°49	2°8/23.5	17	
6 20	20 30.66	-1 51.1	2.705	3.513	11.5	22.5	6 20	20 32.85	-14 12.2	1.351	2.239	16.4	20.1
6 30	20 24.94	-1 32.0	2.621	3.510	9.3	22.3	6 30	20 27.33	-13 53.6	1.305	2.254	12.1	19.9
7 10	20 17.86	-1 25.7	2.561	3.507	7.2	22.2	7 10	20 19.47	-13 46.2	1.279	2.271	7.5	19.7
7 20	20 9.91	-1 32.5	2.527	3.502	5.5	22.1	7 20	20 10.24	-13 48.4	1.276	2.288	3.3	19.5
7 30	20 1.70	-1 51.8	2.521	3.497	5.4	22.1	7 30	20 0.92	-13 57.6	1.299	2.305	4.4	19.6
8 9	19 53.93	-2 21.7	2.543	3.492	6.9	22.2	8 9	19 52.76	-14 10.6	1.345	2.323	8.7	19.9
8 19	19 47.18	-2 59.4	2.591	3.485	9.0	22.3	8 19	19 46.76	-14 24.7	1.415	2.342	12.8	20.2
8 29	19 41.98	-3 41.8	2.664	3.478	11.2	22.4	8 29	19 43.53	-14 37.5	1.504	2.360	16.3	20.4
120389	2005 <i>QK</i> ₇₉		7 22.4 357°33	4°4/25.1	18		520302	2014 <i>FE</i> ₇₅		7 22.5 128°44	3°7/20.0	17	
6 20	20 28.19	-6 31.2	1.965	2.817	13.5	19.9	6 20	20 32.35	-28 30.5	2.127	3.012	11.3	21.0
6 30	20 23.57	-6 32.7	1.893	2.816	10.6	19.7	6 30	20 26.64	-29 34.2	2.068	3.018	8.3	20.9
7 10	20 17.24	-6 49.1	1.843	2.815	7.5	19.5	7 10	20 19.02	-30 36.8	2.033	3.023	5.3	20.7
7 20	20 9.80	-7 19.7	1.817	2.815	4.9	19.4	7 20	20 10.17	-31 32.7	2.024	3.028	3.7	20.6
7 30	20 2.07	-8 2.2	1.818	2.815	4.9	19.4	7 30	20 1.03	-32 17.3	2.044	3.032	5.3	20.7
8 9	19 54.94	-8 52.9	1.845	2.815	7.4	19.5	8 9	19 52.61	-32 47.7	2.090	3.037	8.2	20.9
8 19	19 49.18	-9 47.5	1.897	2.815	10.6	19.7	8 19	19 45.76	-33 3.5	2.160	3.041	11.1	21.1
8 29	19 45.41	-10 42.1	1.971	2.815	13.5	19.9	8 29	19 41.14	-33 5.8	2.252	3.046	13.7	21.3
509830	2008 <i>XQ</i> ₁		7 22.4 246°53	1°0/22.9	18		121466	1999 <i>TQ</i> ₂₁₄		7 22.5 326°09	1°0/21.9	18	
6 20	20 33.56	-16 25.8	2.436	3.298	10.9	22.1	6 20	20 28.92	-21 13.1	1.810	2.702	12.6	19.3
6 30	20 27.33	-16 29.5	2.338	3.277	8.1	21.9	6 30	20 24.44	-21 42.0	1.731	2.687	9.2	19.1
7 10	20 19.38	-16 38.7	2.264	3.255	4.8	21.6	7 10	20 17.90	-22 15.9	1.674	2.672	5.3	18.8
7 20	20 10.24	-16 51.6	2.218	3.232	1.5	21.4	7 20	20 9.97	-22 51.1	1.643	2.658	1.3	18.5
7 30	20 0.66	-17 6.1	2.201	3.208	2.8	21.4	7 30	20 1.60	-23 23.3	1.639	2.645	3.7	18.6
8 9	19 51.51	-17 20.3	2.213	3.183	6.4	21.6	8 9	19 53.87	-23 49.1	1.660	2.632	7.9	18.9
8 19	19 43.56	-17 32.6	2.252	3.158	9.7	21.8	8 19	19 47.73	-24 6.6	1.705	2.620	11.8	19.1
8 29	19 37.47	-17 41.8	2.314	3.131	12.7	21.9	8 29	19 43.93	-24 15.1	1.771	2.608	15.1	19.3
9505	Lohengrin		7 22.4 79°18	1°5/21.6	18		52698	1998 <i>FK</i> ₅₄		7 22.5 215°51	4°6/20.1	18	
6 20	20 32.29	-23 7.2	2.152	3.033	11.4	18.6	6 20	20 34.46	-33 9.7	2.237	3.116	11.1	18.8
6 30	20 26.29	-23 39.6	2.105	3.056	8.1	18.4	6 30	20 28.11	-33 43.6	2.171	3.114	8.4	18.6
7 10	20 18.65	-24 13.4	2.082	3.078	4.6	18.2	7 10	20 19.83	-34 12.0	2.129	3.111	5.8	18.5
7 20	20 10.05	-24 44.9	2.087	3.101	1.6	18.1	7 20	20 10.33	-34 30.3	2.113	3.109	4.6	18.4
7 30	20 1.38	-25 10.9	2.119	3.123	3.5	18.2	7 30	20 0.58	-34 35.2	2.125	3.106	5.8	18.5
8 9	19 53.51	-25 29.2	2.179	3.144	6.8	18.5	8 9	19 51.63	-34 25.5	2.163	3.103	8.4	18.6
8 19	19 47.17	-25 39.2	2.265	3.166	9.9	18.7	8 19	19 44.32	-34 2.1	2.226	3.100	11.1	18.8
8 29	19 42.88	-25 41.2	2.373	3.187	12.5	18.9	8 29	19 39.28	-33 27.6	2.310	3.097	13.6	19.0
187441	2005 <i>WM</i> ₈₄		7 22.4 320°54	0°1/22.5	18		347145	2010 <i>OF</i> ₁₂₁		7 22.5 129°94	3°7/24.5	17	
6 20	20 29.83	-19 4.7	2.088	2.969	11.7	20.9	6 20	20 31.29	-8 47.6	2.131	2.981	12.7	21.6
6 30	20 24.74	-19 18.8	2.014	2.965	8.5	20.7	6 30	20 25.61	-8 40.2	2.065	2.990	9.7	21.4
7 10	20 17.90	-19 37.9	1.964	2.960	4.9	20.4	7 10	20 18.32	-8 44.3	2.023	2.999	6.6	21.2
7 20	20 9.93	-19 59.2	1.941	2.956	1.0	20.1	7 20	20 10.02	-8 59.1	2.006	3.007	4.0	21.1
7 30	20 1.67	-20 20.0	1.944	2.952	3.0	20.3	7 30	20 1.53	-9 22.9	2.016	3.015	4.2	21.1
8 9	19 54.04	-20 37.7	1.975	2.948	6.8	20.5	8 9	19 53.70	-9 52.7	2.054	3.023	6.9	21.3
8 19	19 47.83	-20 50.8	2.031	2.944	10.2	20.7	8 19	19 47.23	-10 25.7	2.118	3.030	9.9	21.5
8 29	19 43.64	-20 58.5	2.109	2.940	13.2	20.9	8 29	19 42.70	-10 59.0	2.205	3.038	12.7	21.7
265361	2004 <i>RF</i> ₁₁₂		7 22.4 304°69	0°4/22.5	18		470909	2009 <i>DK</i> ₄₆		7 22.5 280°62			

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
66556	1999 <i>RB</i> ₁₃₃		7 22.5 256°62	3°0/23.9	18		175390	2006 <i>MN</i> ₆		7 22.5 286°18	0°5/22.2	18	
6 20	20 32.28	-10 54.9	2.202	3.056	12.2	19.0	6 20	20 30.19	-18 30.0	1.905	2.789	12.5	20.3
6 30	20 26.56	-10 50.5	2.104	3.034	9.3	18.7	6 30	20 25.31	-19 16.8	1.822	2.774	9.1	20.0
7 10	20 19.02	-10 56.1	2.030	3.011	6.2	18.5	7 10	20 18.42	-20 12.1	1.762	2.759	5.2	19.8
7 20	20 10.20	-11 10.9	1.982	2.988	3.4	18.3	7 20	20 10.11	-21 11.6	1.728	2.743	1.1	19.4
7 30	20 0.89	-11 33.0	1.962	2.964	3.8	18.3	7 30	20 1.30	-22 10.5	1.721	2.728	3.4	19.6
8 9	19 52.01	-12 0.2	1.969	2.939	7.0	18.4	8 9	19 53.04	-23 4.0	1.742	2.713	7.6	19.8
8 19	19 44.38	-12 29.7	2.003	2.914	10.5	18.6	8 19	19 46.27	-23 49.0	1.786	2.698	11.5	20.0
8 29	19 38.71	-12 59.1	2.060	2.888	13.6	18.8	8 29	19 41.76	-24 23.8	1.853	2.683	14.8	20.2
257989	2001 <i>DR</i> ₈₁		7 22.5 234°25	0°5/22.2	18		284532	2007 <i>RW</i> ₁₅₇		7 22.5 303°01	3°3/20.6	18	
6 20	20 29.94	-20 30.1	2.430	3.307	10.4	21.5	6 20	20 32.00	-26 10.5	1.761	2.654	12.9	20.4
6 30	20 24.63	-20 50.1	2.353	3.302	7.5	21.3	6 30	20 26.77	-27 6.6	1.692	2.647	9.4	20.2
7 10	20 17.78	-21 13.5	2.302	3.297	4.3	21.1	7 10	20 19.29	-28 4.3	1.646	2.641	5.8	19.9
7 20	20 9.93	-21 37.7	2.277	3.292	0.9	20.8	7 20	20 10.29	-28 57.5	1.625	2.634	3.4	19.8
7 30	20 1.82	-22 0.0	2.281	3.287	2.8	21.0	7 30	20 0.84	-29 40.7	1.631	2.628	5.3	19.9
8 9	19 54.24	-22 18.2	2.313	3.282	6.2	21.2	8 9	19 52.17	-30 10.1	1.663	2.622	9.0	20.1
8 19	19 47.90	-22 31.0	2.370	3.277	9.3	21.4	8 19	19 45.30	-30 24.7	1.718	2.616	12.7	20.3
8 29	19 43.35	-22 38.0	2.451	3.271	12.0	21.5	8 29	19 41.01	-30 25.6	1.793	2.610	15.8	20.5
258923	2002 <i>RA</i> ₄₂		7 22.5 284°01	1°0/22.0	18		200041	2007 <i>RY</i> ₂₁₆		7 22.5 246°89	0°5/22.8	18	
6 20	20 33.36	-20 23.4	1.521	2.413	14.6	20.7	6 20	20 31.48	-17 6.8	2.178	3.051	11.6	20.9
6 30	20 28.14	-20 56.7	1.436	2.392	10.7	20.5	6 30	20 25.98	-17 28.7	2.092	3.037	8.5	20.7
7 10	20 20.28	-21 37.7	1.372	2.370	6.2	20.1	7 10	20 18.69	-17 57.4	2.029	3.023	5.0	20.5
7 20	20 10.50	-22 21.6	1.333	2.349	1.4	19.8	7 20	20 10.17	-18 30.3	1.994	3.009	1.2	20.2
7 30	19 59.97	-23 2.8	1.320	2.327	4.3	19.9	7 30	20 1.25	-19 4.2	1.986	2.994	2.9	20.3
8 9	19 50.12	-23 36.6	1.332	2.305	9.3	20.2	8 9	19 52.83	-19 36.1	2.007	2.979	6.7	20.5
8 19	19 42.23	-24 0.2	1.367	2.283	14.0	20.4	8 19	19 45.75	-20 3.8	2.053	2.963	10.3	20.7
8 29	19 37.27	-24 13.0	1.422	2.261	18.0	20.6	8 29	19 40.68	-20 25.7	2.122	2.948	13.3	20.9
330637	2008 <i>EM</i> ₁₅₂		7 22.5 210°79	3°4/24.1	17		472169	2014 <i>DK</i> ₄₀		7 22.5 15°25	0°1/22.4	16	
6 20	20 32.67	-10 5.9	1.733	2.596	14.5	21.9	6 20	20 30.13	-17 13.7	1.668	2.556	13.8	20.6
6 30	20 27.07	-10 12.6	1.658	2.592	11.1	21.7	6 30	20 25.33	-18 3.9	1.604	2.557	10.0	20.4
7 10	20 19.38	-10 33.2	1.605	2.588	7.3	21.4	7 10	20 18.42	-19 4.0	1.562	2.559	5.7	20.2
7 20	20 10.27	-11 6.1	1.577	2.584	3.9	21.2	7 20	20 10.12	-20 9.1	1.545	2.560	1.1	19.9
7 30	20 0.76	-11 48.5	1.576	2.579	4.4	21.2	7 30	20 1.45	-21 13.5	1.555	2.562	3.5	20.0
8 9	19 51.95	-12 35.9	1.600	2.574	8.0	21.4	8 9	19 53.55	-22 12.0	1.590	2.565	8.0	20.3
8 19	19 44.80	-13 24.3	1.650	2.569	11.8	21.7	8 19	19 47.38	-23 1.2	1.650	2.567	11.9	20.6
8 29	19 40.05	-14 10.2	1.721	2.563	15.3	21.9	8 29	19 43.66	-23 39.3	1.731	2.570	15.3	20.8
509850	2008 <i>YM</i> ₁₀₁		7 22.5 152°39	0°1/22.4	17		169567	2002 <i>FO</i> ₄		7 22.5 117°23	0°7/22.2	18	
6 20	20 31.16	-17 48.9	2.151	3.026	11.6	21.9	6 20	20 37.20	-19 50.4	1.643	2.524	14.3	20.2
6 30	20 25.64	-18 34.4	2.083	3.031	8.4	21.7	6 30	20 30.28	-20 24.8	1.592	2.542	10.3	20.0
7 10	20 18.41	-19 26.8	2.040	3.035	4.8	21.5	7 10	20 21.14	-21 4.7	1.564	2.560	5.8	19.8
7 20	20 10.06	-20 22.1	2.024	3.040	0.9	21.2	7 20	20 10.64	-21 45.1	1.561	2.577	1.2	19.5
7 30	20 1.44	-21 16.3	2.037	3.044	3.0	21.4	7 30	19 59.99	-22 21.3	1.587	2.593	3.8	19.7
8 9	19 53.44	-22 5.7	2.077	3.047	6.7	21.6	8 9	19 50.41	-22 50.0	1.638	2.609	8.1	20.0
8 19	19 46.84	-22 47.6	2.143	3.051	10.1	21.8	8 19	19 42.86	-23 9.8	1.714	2.623	12.0	20.3
8 29	19 42.24	-23 20.8	2.232	3.054	12.9	22.0	8 29	19 37.99	-23 20.6	1.812	2.638	15.3	20.5
320476	2007 <i>VP</i> ₃₁₇		7 22.5 105°77	3°8/20.7	17		284827	2009 <i>AH</i> ₄₄		7 22.5 275°84	1°5/23.3	18	
6 20	20 38.02	-27 4.8	1.547	2.437	14.5	20.9	6 20	20 30.30	-14 23.0	1.911	2.786	12.9	21.0
6 30	20 31.09	-28 0.7	1.501	2.454	10.5	20.7	6 30	20 25.30	-14 44.2	1.830	2.775	9.6	20.8
7 10	20 21.66	-28 55.5	1.477	2.471	6.5	20.5	7 10	20 18.36	-15 15.5	1.772	2.764	5.8	20.5
7 20	20 10.71	-29 42.0	1.479	2.487	3.9	20.4	7 20	20 10.12	-15 54.5	1.740	2.753	2.0	20.2
7 30	19 59.59	-30 14.6	1.507	2.503	5.9	20.5	7 30	20 1.45	-16 37.5	1.734	2.742	3.3	20.3
8 9	19 49.70	-30 30.9	1.561	2.518	9.7	20.8	8 9	19 53.37	-17 20.8	1.756	2.731	7.3	20.5
8 19	19 42.11	-30 31.5	1.638	2.533	13.3	21.1	8 19	19 46.75	-18 1.2	1.802	2.720	11.1	20.7
8 29	19 37.48	-30 18.9	1.735	2.548	16.4	21.3	8 29	19 42.32	-18 36.1	1.871	2.709	14.4	20.9
336818	2011 <i>EH</i> ₁₉		7 22.5 69°56	5°6/26.1	17		204323	2004 <i>RL</i> ₈₂		7 22.5 0°38	5°1/24.8	17	
6 20	20 30.18	-3 1.4	1.615	2.460	16.3	20.3	6 20	20 27.19	-8 12.3	1.225	2.110	17.8	20.0
6 30	20 25.23	-3 27.5	1.555	2.471	12.9	20.1	6 30	20 23.65	-8 7.4	1.164	2.108	13.9	19.7
7 10	20 18.28	-4 15.8	1.515	2.482	9.3	19.9	7 10	20 17.65	-8 23.1	1.122	2.106	9.5	19.5
7 20	20 10.05	-5 24.5	1.499	2.493	6.3	19.7	7 20	20 10.00	-8 58.4	1.101	2.106	5.8	19.3
7 30	20 1.55	-6 49.2	1.509	2.505	5.9	19.8	7 30	20 1.92	-9 49.8	1.103	2.106	5.9	19.3
8 9	19 53.86	-8 22.9	1.545	2.516	8.5	19.9	8 9	19 54.79	-10 51.2	1.128	2.108	9.7	19.5
8 19	19 47.87	-9 58.7	1.605	2.527	11.9	20.2	8 19	19 49.73	-11 55.8	1.175	2.111	14.0	19.8
8 29	19 44.25	-11 30.1	1.688	2.538	15.1	20.4	8 29	19 47.54	-12 57.4	1.241	2.116	17.9	20.0
20879	Chengyuhshuan		7 22.5 116°64	1°3/22.9	18		21886	1999 <i>UZ</i> ₃₅		7 22.5 150°00	0°9/22.9	18	
6 20	20 36.17	-16 54.2	1.498	2.381	15.3	19.2	6 20	20 32.62	-16 19.3	2.120	2.990	12.0	19.9
6 30	20 29.72	-16 51.7	1.440	2.389	11.2	19.0	6 30	20 26.66	-16 36.6	2.054	2.997	8.8	19.7
7 10	20 20.89	-16 57.1	1.403	2.398	6.6	18.7	7 10	20 18.99	-17 0.7	2.011	3.004	5.1	19.5
7 20	20 10.57	-17 7.6	1.391	2.406	1.9	18.5	7 20	20 10.23	-17 29.0	1.996	3.010	1.4	19.3
7 30	20 0.03	-17 20.1	1.406	2.414	3.8	18.6	7 30	20 1.26	-17 58.5	2.008	3.016	2.9	19.4
8 9	19 50.55	-17 31.8	1.446	2.421	8.5	18.9	8 9	19 52.96	-18 26.4	2.049	3.021	6.6	19.7
8 19	19 43.18	-17 40.9	1.509	2.428	12.7	19.2	8 19	19 46.11	-18 50.7	2.115	3.026	10.0	19.9
8 29	19 38.62	-17 46.2	1.593	2.435	16.3	19.4	8 29	19 41.30	-19 10.1	2.204	3.030	12.9	20.1
78135	2002 <i>NE</i> ₁₄		7 22.5 348°83	0°1/22.4	17		318655	2005 <i>MY</i> ₄₉					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
300902	2008 <i>BE</i> ₃₄		7 22.5 229°79	4.1/20.3	18		119522	2001 <i>UX</i> ₁₆₂		7 22.5 162°01	0.3/22.7	18	
6 20	20 34.74	-32 10.8	2.346	3.222	10.7	21.2	6 20	20 33.79	-17 38.0	2.203	3.072	11.6	20.7
6 30	20 28.29	-32 41.0	2.272	3.215	8.1	21.0	6 30	20 27.49	-18 2.0	2.135	3.079	8.4	20.5
7 10	20 19.97	-33 6.6	2.223	3.207	5.5	20.8	7 10	20 19.47	-18 31.8	2.091	3.085	4.9	20.3
7 20	20 10.44	-33 23.3	2.201	3.199	4.1	20.7	7 20	20 10.38	-19 4.5	2.075	3.090	1.1	20.0
7 30	20 0.63	-33 27.7	2.207	3.191	5.4	20.8	7 30	20 1.04	-19 36.7	2.088	3.095	2.9	20.1
8 9	19 51.52	-33 18.7	2.240	3.183	8.0	20.9	8 9	19 52.36	-20 5.8	2.128	3.099	6.5	20.4
8 19	19 43.96	-32 57.1	2.298	3.174	10.8	21.1	8 19	19 45.12	-20 30.0	2.195	3.102	9.9	20.6
8 29	19 38.58	-32 24.8	2.378	3.165	13.2	21.3	8 29	19 39.90	-20 48.2	2.285	3.105	12.7	20.8
182824	2002 <i>AQ</i> ₁₉₁		7 22.5 343°58	1°0/22.0	18		93554	2000 <i>UM</i> ₂₇		7 22.5 297°40	1°7/21.6	18	
6 20	20 32.06	-22 47.4	2.059	2.942	11.7	20.3	6 20	20 32.10	-21 13.9	1.621	2.513	13.8	19.5
6 30	20 26.38	-22 52.1	1.989	2.941	8.5	20.1	6 30	20 27.26	-22 3.5	1.526	2.482	10.2	19.2
7 10	20 18.87	-22 58.2	1.943	2.939	4.8	19.9	7 10	20 19.86	-23 1.4	1.454	2.452	5.9	18.9
7 20	20 10.22	-23 2.9	1.923	2.938	1.3	19.6	7 20	20 10.54	-24 2.6	1.407	2.421	1.9	18.6
7 30	20 1.33	-23 3.8	1.931	2.937	3.3	19.8	7 30	20 0.35	-25 0.6	1.385	2.390	4.6	18.7
8 9	19 53.17	-22 59.5	1.966	2.936	7.0	20.0	8 9	19 50.64	-25 49.7	1.390	2.359	9.4	18.9
8 19	19 46.55	-22 49.4	2.026	2.935	10.5	20.2	8 19	19 42.70	-26 26.5	1.417	2.328	13.9	19.1
8 29	19 42.08	-22 33.9	2.108	2.934	13.4	20.4	8 29	19 37.55	-26 49.9	1.464	2.298	17.9	19.3
153052	2000 <i>QO</i> ₉₈		7 22.5 343°74	8°4/27.6	18		507722	2013 <i>VE</i> ₁₄		7 22.5 213°29	4°9/24.6	17	
6 20	20 25.19	+ 0 56.4	1.271	2.124	19.4	18.5	6 20	20 33.21	- 7 26.6	1.884	2.732	14.2	21.9
6 30	20 22.24	+ 0 44.1	1.199	2.113	16.1	18.3	6 30	20 27.34	- 7 0.2	1.806	2.727	11.1	21.7
7 10	20 16.90	- 0 0.4	1.143	2.103	12.5	18.0	7 10	20 19.52	- 6 46.9	1.751	2.723	7.9	21.4
7 20	20 9.88	- 1 18.2	1.108	2.094	9.4	17.8	7 20	20 10.41	- 6 47.0	1.721	2.717	5.3	21.3
7 30	20 2.28	- 3 5.7	1.096	2.086	8.5	17.8	7 30	20 0.93	- 6 59.5	1.717	2.712	5.4	21.3
8 9	19 55.42	- 5 14.2	1.106	2.079	10.7	17.9	8 9	19 52.10	- 7 21.9	1.740	2.706	8.2	21.4
8 19	19 50.46	- 7 32.2	1.139	2.074	14.5	18.1	8 19	19 44.81	- 7 51.1	1.788	2.699	11.5	21.6
8 29	19 48.31	- 9 48.3	1.192	2.070	18.3	18.3	8 29	19 39.74	- 8 23.5	1.857	2.693	14.6	21.8
168068	2006 <i>CC</i> ₂₃		7 22.5 16°41	6°4/20.1	18		43905	1995 <i>WC</i> ₁		7 22.5 302°57	1°2/22.9	18	
6 20	20 32.35	-29 34.0	1.000	1.920	17.9	18.8	6 20	20 32.18	-16 46.6	1.365	2.258	15.9	18.7
6 30	20 28.10	-30 42.9	0.957	1.924	13.3	18.6	6 30	20 27.51	-16 51.9	1.278	2.233	11.8	18.4
7 10	20 20.44	-31 48.7	0.934	1.929	8.8	18.4	7 10	20 20.08	-17 7.3	1.212	2.209	7.1	18.1
7 20	20 10.59	-32 40.8	0.930	1.935	6.4	18.3	7 20	20 10.59	-17 30.4	1.169	2.184	2.0	17.7
7 30	20 0.38	-33 10.6	0.949	1.943	8.7	18.4	7 30	20 0.26	-17 57.1	1.150	2.159	4.2	17.8
8 9	19 51.79	-33 15.0	0.988	1.952	13.1	18.7	8 9	19 50.61	-18 23.2	1.156	2.135	9.6	18.0
8 19	19 46.22	-32 56.3	1.047	1.961	17.4	19.0	8 19	19 43.01	-18 45.4	1.183	2.111	14.7	18.2
8 29	19 44.48	-32 19.1	1.122	1.972	21.1	19.3	8 29	19 38.51	-19 1.6	1.230	2.087	19.1	18.4
309782	2008 <i>YY</i> ₁₅₄		7 22.5 234°01	1°4/23.0	17		242084	2002 <i>TQ</i> ₂₂₆		7 22.5 315°89	5°2/24.9	18	
6 20	20 35.82	-16 8.2	1.515	2.396	15.3	21.5	6 20	20 28.08	- 6 53.9	1.622	2.486	15.3	19.8
6 30	20 29.74	-16 13.4	1.439	2.388	11.3	21.3	6 30	20 24.05	- 6 44.9	1.533	2.463	12.1	19.5
7 10	20 21.11	-16 27.9	1.385	2.378	6.8	21.0	7 10	20 17.86	- 6 53.1	1.464	2.440	8.6	19.3
7 20	20 10.73	-16 49.1	1.355	2.369	2.1	20.7	7 20	20 10.11	- 7 18.7	1.417	2.417	5.7	19.0
7 30	19 59.80	-17 13.2	1.351	2.359	3.9	20.8	7 30	20 0.17	- 8 0.2	1.396	2.395	5.7	19.0
8 9	19 49.71	-17 36.8	1.373	2.348	8.8	21.0	8 9	19 53.90	- 8 53.5	1.399	2.373	8.9	19.1
8 19	19 41.62	-17 57.0	1.418	2.337	13.4	21.3	8 19	19 47.63	- 9 53.6	1.426	2.352	12.8	19.3
8 29	19 36.42	-18 12.4	1.483	2.326	17.3	21.5	8 29	19 43.79	-10 55.0	1.473	2.331	16.5	19.5
499012	2009 <i>CS</i> ₄₈		7 22.5 264°51	0°9/22.2	17		477984	2011 <i>SU</i> ₉₅		7 22.5 241°87	0°7/22.1	18	
6 20	20 36.83	-21 31.4	1.400	2.293	15.6	22.0	6 20	20 31.74	-21 2.7	2.256	3.134	11.1	22.3
6 30	20 30.78	-21 42.1	1.323	2.279	11.4	21.7	6 30	20 26.13	-21 25.0	2.174	3.124	8.0	22.1
7 10	20 21.86	-21 57.3	1.266	2.264	6.6	21.4	7 10	20 18.77	-21 50.9	2.117	3.113	4.6	21.9
7 20	20 10.91	-22 12.7	1.234	2.249	1.5	21.0	7 20	20 10.26	-22 17.2	2.087	3.102	1.1	21.6
7 30	19 59.30	-22 23.6	1.227	2.234	4.4	21.2	7 30	20 1.39	-22 40.9	2.085	3.091	3.1	21.8
8 9	19 48.61	-22 27.1	1.245	2.219	9.7	21.4	8 9	19 53.08	-22 59.6	2.111	3.080	6.7	22.0
8 19	19 40.18	-22 22.2	1.286	2.203	14.6	21.7	8 19	19 46.11	-23 11.8	2.163	3.068	10.1	22.2
8 29	19 34.98	-22 9.6	1.345	2.188	18.7	21.9	8 29	19 41.13	-23 17.3	2.237	3.056	13.0	22.3
396169	2013 <i>EN</i> ₁₀₂		7 22.5 241°49	2°2/23.9	18		14499	Satotoshio		7 22.5 311°74	1°2/21.9	18	
6 20	20 28.94	-11 16.3	2.467	3.322	11.0	21.4	6 20	20 30.50	-19 3.1	1.098	2.009	17.5	17.5
6 30	20 23.94	-11 37.4	2.380	3.312	8.3	21.2	6 30	20 26.81	-19 53.7	1.022	1.987	12.9	17.2
7 10	20 17.46	-12 8.4	2.317	3.301	5.3	21.0	7 10	20 19.92	-20 58.5	0.966	1.967	7.4	16.8
7 20	20 9.97	-12 47.7	2.281	3.290	2.6	20.8	7 20	20 10.59	-22 11.4	0.931	1.946	1.7	16.4
7 30	20 2.16	-13 32.7	2.274	3.279	3.0	20.8	7 30	20 0.27	-23 23.3	0.919	1.927	5.2	16.6
8 9	19 54.77	-14 20.2	2.295	3.267	6.0	20.9	8 9	19 50.79	-24 25.8	0.929	1.907	11.4	16.8
8 19	19 48.48	-15 7.4	2.342	3.255	9.1	21.1	8 19	19 43.80	-25 13.5	0.958	1.889	17.0	17.1
8 29	19 43.86	-15 51.6	2.413	3.243	11.8	21.3	8 29	19 40.53	-25 44.2	1.005	1.872	21.8	17.3
481432	2006 <i>UD</i> ₁₉₁		7 22.5 300°15	2°5/21.4	18		126483	2002 <i>CC</i> ₅₁		7 22.5 39°25	0°7/22.2	17	
6 20	20 33.19	-26 16.5	1.871	2.760	12.5	21.0	6 20	20 33.29	-21 7.3	1.403	2.300	15.3	19.4
6 30	20 27.60	-26 33.3	1.787	2.740	9.1	20.8	6 30	20 27.76	-21 18.7	1.354	2.312	11.0	19.2
7 10	20 19.79	-26 49.7	1.726	2.721	5.5	20.5	7 10	20 19.84	-21 34.4	1.326	2.324	6.3	18.9
7 20	20 10.47	-27 1.4	1.690	2.702	2.6	20.3	7 20	20 10.46	-21 50.5	1.322	2.337	1.3	18.6
7 30	20 0.67	-27 4.9	1.682	2.683	4.5	20.4	7 30	20 0.94	-22 3.0	1.343	2.351	4.0	18.9
8 9	19 51.57	-26 58.1	1.699	2.664	8.4	20.6	8 9	19 52.58	-22 9.4	1.389	2.365	8.7	19.2
8 19	19 44.18	-26 41.1	1.741	2.645	12.1	20.7	8 19	19 46.39	-22 8.8	1.458	2.379	12.9	19.5
8 29	19 39.29	-26 15.1	1.804	2.627	15.4	20.9	8 29	19 43.04	-22 1.4	1.547	2.394	16.4	19.7
37553	1981 <i>EN</i> ₄₃		7 22.5 291°85	5°0/19.8	18		470769	2008 <i>UK</i> ₂					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
490056	2008 <i>TB</i> ₈₆		7 22.5 315°19	2°0/23.3	16		53298	1999 <i>GF</i> ₂₅		7 22.5 179°90	0°2/22.6	18	R
6 20	20 30.04	-14 47.4	1.450	2.340	15.3	22.2	6 20	20 30.55	-17 57.3	2.034	2.913	12.0	18.1
6 30	20 25.71	-14 51.9	1.368	2.320	11.5	21.9	6 30	20 25.34	-18 23.4	1.964	2.913	8.7	17.9
7 10	20 18.91	-15 8.0	1.306	2.301	7.1	21.6	7 10	20 18.35	-18 56.0	1.918	2.913	5.0	17.7
7 20	20 10.34	-15 33.8	1.268	2.282	2.6	21.3	7 20	20 10.21	-19 31.9	1.898	2.913	1.1	17.4
7 30	20 1.13	-16 5.6	1.255	2.263	4.0	21.3	7 30	20 1.78	-20 7.7	1.906	2.913	3.0	17.5
8 9	19 52.61	-16 39.3	1.266	2.245	8.9	21.6	8 9	19 53.99	-20 40.1	1.940	2.913	6.9	17.8
8 19	19 45.96	-17 11.2	1.299	2.228	13.6	21.8	8 19	19 47.66	-21 7.0	2.000	2.913	10.4	18.0
8 29	19 42.12	-17 38.3	1.353	2.211	17.7	22.0	8 29	19 43.39	-21 27.2	2.083	2.913	13.4	18.2
84089	2002 <i>QB</i> ₃₈		7 22.5 270°27	5°4/20.3	18		360691	2004 <i>SA</i> ₃₂		7 22.5 346°00	6°4/20.5	17	
6 20	20 38.01	-31 37.3	1.607	2.496	14.1	19.6	6 20	20 31.38	-30 1.3	0.936	1.861	18.4	19.7
6 30	20 31.57	-32 19.4	1.529	2.479	10.7	19.4	6 30	20 27.79	-30 47.5	0.881	1.850	13.9	19.4
7 10	20 22.29	-32 57.2	1.474	2.462	7.3	19.1	7 10	20 20.53	-31 30.1	0.844	1.841	9.2	19.1
7 20	20 11.02	-33 23.6	1.443	2.444	5.4	19.0	7 20	20 10.72	-31 59.3	0.827	1.833	6.4	18.9
7 30	19 59.13	-33 32.5	1.438	2.426	7.2	19.0	7 30	20 0.27	-32 6.7	0.830	1.827	8.8	19.0
8 9	19 48.16	-33 21.7	1.458	2.408	10.8	19.2	8 9	19 51.34	-31 49.2	0.853	1.822	13.6	19.2
8 19	19 39.45	-32 52.5	1.500	2.390	14.6	19.4	8 19	19 45.58	-31 9.5	0.893	1.819	18.5	19.5
8 29	19 33.94	-32 8.7	1.562	2.372	18.0	19.6	8 29	19 43.97	-30 12.7	0.950	1.817	22.7	19.8
290465	2005 <i>TY</i> ₁₆₉		7 22.5 352°69	6°2/25.8	18		216148	2006 <i>SO</i> ₂₈₀		7 22.5 303°54	4°6/20.3	18	
6 20	20 28.84	-2 23.1	2.089	2.918	13.7	19.9	6 20	20 33.46	-27 4.0	1.367	2.270	15.2	19.9
6 30	20 24.00	-1 53.0	2.016	2.917	11.1	19.7	6 30	20 28.53	-28 10.1	1.297	2.257	11.2	19.6
7 10	20 17.53	-1 38.4	1.964	2.916	8.5	19.6	7 10	20 20.68	-29 18.6	1.248	2.244	7.1	19.4
7 20	20 10.02	-1 40.3	1.937	2.916	6.6	19.5	7 20	20 10.74	-30 21.3	1.223	2.231	4.6	19.2
7 30	20 2.23	-1 58.0	1.935	2.915	6.4	19.4	7 30	20 0.11	-31 10.0	1.223	2.218	6.9	19.3
8 9	19 55.01	-2 29.0	1.959	2.915	8.1	19.6	8 9	19 50.40	-31 39.7	1.245	2.206	11.2	19.5
8 19	19 49.09	-3 9.8	2.008	2.915	10.7	19.7	8 19	19 43.03	-31 49.4	1.290	2.194	15.5	19.7
8 29	19 45.04	-3 56.1	2.080	2.914	13.3	19.9	8 29	19 38.97	-31 41.1	1.352	2.182	19.3	19.9
439530	2014 <i>CO</i>		7 22.5 249°90	3°3/20.1	16		276874	2004 <i>RU</i> ₂₂₈		7 22.5 26°00	1°9/21.8	17	
6 20	20 32.66	-23 17.2	1.824	2.712	12.7	20.5	6 20	20 33.57	-23 33.1	1.493	2.390	14.6	20.6
6 30	20 27.31	-25 6.3	1.755	2.709	9.2	20.3	6 30	20 28.02	-23 53.5	1.436	2.394	10.5	20.3
7 10	20 19.70	-27 2.0	1.711	2.706	5.5	20.1	7 10	20 20.05	-24 15.9	1.400	2.398	6.1	20.1
7 20	20 10.50	-28 56.2	1.695	2.703	3.3	19.9	7 20	20 10.56	-24 35.9	1.388	2.402	2.1	19.9
7 30	20 0.73	-30 40.4	1.706	2.700	5.5	20.1	7 30	20 0.80	-24 49.1	1.402	2.407	4.5	20.0
8 9	19 51.58	-32 8.1	1.745	2.697	9.2	20.3	8 9	19 52.08	-24 53.1	1.440	2.412	8.9	20.3
8 19	19 44.12	-33 16.2	1.809	2.694	12.7	20.5	8 19	19 45.48	-24 47.5	1.502	2.417	13.0	20.6
8 29	19 39.18	-34 4.5	1.893	2.691	15.7	20.7	8 29	19 41.71	-24 33.3	1.584	2.423	16.5	20.8
166631	2002 <i>SB</i> ₂₆		7 22.5 300°92	2°1/21.4	18		371494	2006 <i>TJ</i> ₁₀₂		7 22.5 281°53	1°6/23.1	17	
6 20	20 31.40	-23 28.7	1.791	2.682	12.8	19.4	6 20	20 33.38	-15 40.1	1.524	2.407	15.1	22.1
6 30	20 26.34	-24 8.3	1.714	2.670	9.3	19.1	6 30	20 28.10	-15 44.4	1.439	2.388	11.2	21.8
7 10	20 19.10	-24 51.4	1.661	2.658	5.4	18.9	7 10	20 20.29	-15 58.8	1.375	2.369	6.8	21.5
7 20	20 10.38	-25 33.2	1.633	2.646	2.2	18.6	7 20	20 10.67	-16 20.9	1.336	2.350	2.3	21.1
7 30	20 1.18	-26 9.0	1.631	2.634	4.4	18.8	7 30	20 0.37	-16 47.3	1.322	2.330	3.9	21.2
8 9	19 52.67	-26 35.0	1.655	2.622	8.4	19.0	8 9	19 50.76	-17 14.2	1.334	2.311	8.8	21.4
8 19	19 45.85	-26 49.9	1.704	2.611	12.2	19.2	8 19	19 43.02	-17 38.6	1.369	2.291	13.5	21.7
8 29	19 41.52	-26 53.6	1.773	2.599	15.5	19.4	8 29	19 38.11	-17 58.2	1.423	2.272	17.5	21.9
510484	2011 <i>WD</i> ₁₂₄		7 22.5 203°99	5°0/18.6	18		132048	2002 <i>CF</i> ₁₃₇		7 22.5 122°18	2°7/23.7	17	
6 20	20 33.88	-36 13.0	2.816	3.683	9.4	22.8	6 20	20 34.30	-12 42.6	1.425	2.304	16.2	20.1
6 30	20 27.59	-37 13.9	2.747	3.678	7.4	22.7	6 30	20 28.57	-12 48.2	1.364	2.309	12.1	19.8
7 10	20 19.59	-38 9.4	2.704	3.672	5.6	22.5	7 10	20 20.40	-13 7.2	1.324	2.314	7.6	19.6
7 20	20 10.45	-38 54.6	2.688	3.666	5.0	22.5	7 20	20 10.65	-13 37.3	1.307	2.318	3.3	19.3
7 30	20 0.99	-39 26.0	2.701	3.660	6.1	22.5	7 30	20 0.56	-14 14.6	1.316	2.322	4.3	19.4
8 9	19 52.06	-39 41.8	2.740	3.653	8.0	22.7	8 9	19 51.44	-14 54.4	1.350	2.327	8.8	19.7
8 19	19 44.46	-39 42.4	2.804	3.645	10.1	22.8	8 19	19 44.40	-15 32.8	1.407	2.331	13.1	19.9
8 29	19 38.79	-39 29.5	2.890	3.637	12.0	22.9	8 29	19 40.19	-16 6.7	1.484	2.334	16.8	20.2
346637	2008 <i>WZ</i> ₁₄₀		7 22.5 239°23	3°0/20.9	18		129672	1998 <i>RR</i> ₂₄		7 22.5 315°64	3°5/24.1	18	
6 20	20 33.10	-25 57.8	1.888	2.776	12.4	21.1	6 20	20 29.17	-10 51.6	1.598	2.473	14.9	19.6
6 30	20 27.44	-26 45.0	1.819	2.772	9.0	20.9	6 30	20 24.84	-10 51.8	1.516	2.457	11.4	19.4
7 10	20 19.67	-27 33.1	1.774	2.769	5.5	20.7	7 10	20 18.32	-11 6.1	1.454	2.441	7.5	19.1
7 20	20 10.48	-28 17.0	1.755	2.765	3.0	20.5	7 20	20 10.25	-11 33.5	1.417	2.425	4.0	18.8
7 30	20 0.92	-28 51.7	1.763	2.760	4.9	20.6	7 30	20 1.65	-12 11.4	1.405	2.409	4.5	18.8
8 9	19 52.11	-29 14.3	1.797	2.756	8.4	20.9	8 9	19 53.67	-12 55.4	1.417	2.394	8.4	19.0
8 19	19 45.02	-29 23.9	1.855	2.752	11.9	21.1	8 19	19 47.35	-13 41.4	1.453	2.380	12.6	19.2
8 29	19 40.36	-29 21.5	1.934	2.748	14.9	21.3	8 29	19 43.53	-14 25.3	1.510	2.366	16.3	19.4
450020	2015 <i>QR</i>		7 22.5 339°76	5°0/20.3	18		513003	2017 <i>UL</i> ₄₅		7 22.5 244°45	3°8/20.6	17	
6 20	20 34.25	-33 39.8	1.936	2.821	12.3	20.1	6 20	20 36.57	-28 12.4	1.843	2.728	12.8	22.6
6 30	20 28.26	-34 3.6	1.869	2.815	9.3	19.9	6 30	20 30.18	-28 57.6	1.764	2.714	9.5	22.3
7 10	20 20.09	-34 20.6	1.826	2.809	6.5	19.7	7 10	20 21.37	-29 42.0	1.708	2.699	6.0	22.1
7 20	20 10.56	-34 26.0	1.808	2.804	5.0	19.6	7 20	20 10.89	-30 19.9	1.678	2.684	3.8	21.9
7 30	20 0.76	-34 16.2	1.816	2.799	6.4	19.7	7 30	19 59.85	-30 45.9	1.675	2.668	5.6	22.0
8 9	19 51.88	-33 50.7	1.849	2.795	9.2	19.9	8 9	19 49.55	-30 57.0	1.698	2.652	9.2	22.2
8 19	19 44.88	-33 11.0	1.906	2.791	12.2	20.1	8 19	19 41.12	-30 53.1	1.745	2.636	12.9	22.4
8 29	19 40.43	-32 20.3	1.985	2.788	15.0	20.2	8 29	19 35.39	-30 36.3	1.813	2.618	16.1	22.6
282702	2006 <i>BL</i> ₇₄		7 22.5 159°74	0°4/22.2	17		508447	2016 <i>LZ</i>					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
221841	2008 FZ ₄₆		7 22.5	3°19	0°4/22.7	17	243387	2008 YZ ₅₂		7 22.5	28°95	1°7/21.6	17
6 20	20 28.14	-17 34.9	1.061	1.974	17.7	20.3	6 20	20 31.42	-22 18.5	1.758	2.649	13.0	20.3
6 30	20 24.74	-17 57.4	1.007	1.973	13.0	20.1	6 30	20 26.26	-23 2.3	1.696	2.652	9.4	20.1
7 10	20 18.47	-18 32.2	0.972	1.972	7.5	19.8	7 10	20 19.02	-23 50.2	1.658	2.655	5.4	19.9
7 20	20 10.30	-19 14.2	0.958	1.973	1.6	19.4	7 20	20 10.43	-24 37.3	1.644	2.658	1.9	19.6
7 30	20 1.69	-19 57.4	0.966	1.976	4.4	19.6	7 30	20 1.53	-25 18.6	1.657	2.661	4.1	19.8
8 9	19 54.27	-20 35.7	0.996	1.979	10.1	19.9	8 9	19 53.44	-25 50.7	1.696	2.665	8.1	20.0
8 19	19 49.31	-21 5.3	1.047	1.985	15.2	20.2	8 19	19 47.08	-26 11.8	1.760	2.669	11.8	20.3
8 29	19 47.65	-21 24.2	1.115	1.991	19.4	20.5	8 29	19 43.15	-26 22.0	1.844	2.672	14.9	20.5
343621	2010 GV ₁₃₉		7 22.5	165°40	2°6/21.0	18	272667	2005 WC ₁₉₇		7 22.5	133°49	1°2/23.2	18
6 20	20 33.22	-25 35.1	2.025	2.910	11.8	21.0	6 20	20 33.06	-14 49.8	1.940	2.810	12.9	20.8
6 30	20 27.37	-26 18.3	1.960	2.912	8.6	20.8	6 30	20 27.16	-15 16.2	1.878	2.820	9.5	20.6
7 10	20 19.56	-27 2.1	1.919	2.913	5.1	20.6	7 10	20 19.41	-15 51.7	1.839	2.830	5.6	20.4
7 20	20 10.49	-27 41.9	1.905	2.915	2.6	20.4	7 20	20 10.50	-16 33.1	1.826	2.839	1.8	20.2
7 30	20 1.13	-28 13.5	1.918	2.916	4.4	20.5	7 30	20 1.36	-17 16.7	1.841	2.848	3.1	20.3
8 9	19 52.51	-28 34.2	1.958	2.917	7.8	20.7	8 9	19 52.95	-17 58.8	1.883	2.857	7.0	20.6
8 19	19 45.51	-28 43.3	2.022	2.918	11.1	20.9	8 19	19 46.12	-18 36.6	1.951	2.865	10.6	20.8
8 29	19 40.78	-28 41.7	2.109	2.919	14.0	21.1	8 29	19 41.46	-19 8.3	2.041	2.872	13.6	21.0
173615	2001 FK ₂₇		7 22.5	147°11	0°8/22.2	17	263036	2007 GT ₆		7 22.5	166°56	0°2/22.7	18
6 20	20 37.45	-21 25.8	1.814	2.692	13.3	20.7	6 20	20 29.74	-18 9.7	2.680	3.549	9.8	21.3
6 30	20 30.44	-21 40.6	1.752	2.702	9.6	20.5	6 30	20 24.40	-18 27.2	2.608	3.552	7.1	21.2
7 10	20 21.30	-21 58.4	1.715	2.710	5.5	20.3	7 10	20 17.70	-18 49.0	2.561	3.555	4.1	21.0
7 20	20 10.85	-22 15.5	1.703	2.719	1.3	20.0	7 20	20 10.15	-19 12.9	2.542	3.557	0.9	20.7
7 30	20 0.20	-22 28.5	1.720	2.726	3.6	20.2	7 30	20 0.20	-19 36.8	2.551	3.559	2.4	20.9
8 9	19 50.48	-22 35.3	1.764	2.733	7.7	20.5	8 9	19 55.15	-19 58.5	2.589	3.560	5.5	21.1
8 19	19 42.64	-22 35.3	1.832	2.739	11.5	20.7	8 19	19 49.00	-20 16.5	2.654	3.562	8.4	21.3
8 29	19 37.32	-22 28.9	1.923	2.745	14.7	20.9	8 29	19 44.46	-20 30.1	2.743	3.563	10.8	21.4
154548	2003 GP ₃₇		7 22.5	46°96	1°1/22.1	17	6131	Towen		7 22.5	243°62	1°9/23.5	18
6 20	20 33.80	-21 30.8	1.388	2.286	15.4	19.9	6 20	20 32.59	-13 13.6	1.746	2.618	14.0	17.8
6 30	20 28.18	-21 52.5	1.342	2.300	11.1	19.6	6 30	20 27.20	-13 37.6	1.665	2.608	10.5	17.6
7 10	20 20.13	-22 18.4	1.317	2.315	6.3	19.4	7 10	20 19.64	-14 14.0	1.607	2.597	6.5	17.3
7 20	20 10.62	-22 43.9	1.315	2.330	1.6	19.1	7 20	20 10.59	-15 0.0	1.574	2.587	2.5	17.0
7 30	20 0.96	-23 4.5	1.339	2.346	4.2	19.4	7 30	20 1.03	-15 51.5	1.568	2.576	3.6	17.1
8 9	19 52.51	-23 17.2	1.388	2.362	8.9	19.7	8 9	19 52.10	-16 44.0	1.589	2.564	7.8	17.3
8 19	19 46.27	-23 21.2	1.459	2.379	13.0	20.0	8 19	19 44.81	-17 33.4	1.634	2.553	11.9	17.5
8 29	19 42.90	-23 16.8	1.550	2.395	16.5	20.2	8 29	19 39.94	-18 16.8	1.701	2.541	15.5	17.7
261333	2005 UJ ₂₄₆		7 22.5	12°03	1°1/23.1	18	132679	2002 NF ₁₆		7 22.5	24°19	2°0/21.3	17
6 20	20 29.09	-15 36.1	1.994	2.871	12.3	20.7	6 20	20 29.75	-19 37.7	1.434	2.334	14.9	19.0
6 30	20 24.31	-15 56.2	1.926	2.872	9.0	20.5	6 30	20 25.41	-21 9.3	1.381	2.341	10.7	18.7
7 10	20 17.78	-16 24.6	1.881	2.874	5.4	20.3	7 10	20 18.69	-22 50.7	1.349	2.348	6.1	18.5
7 20	20 10.15	-16 58.6	1.861	2.875	1.6	20.0	7 20	20 10.39	-24 33.8	1.342	2.357	2.1	18.2
7 30	20 0.25	-17 34.9	1.869	2.877	3.0	20.2	7 30	20 0.69	-26 9.7	1.362	2.366	4.8	18.5
8 9	19 54.98	-18 10.4	1.904	2.879	6.8	20.4	8 9	19 53.92	-27 31.2	1.406	2.375	9.3	18.7
8 19	19 49.15	-18 42.2	1.964	2.882	10.3	20.6	8 19	19 48.14	-28 34.7	1.473	2.386	13.4	19.0
8 29	19 45.34	-19 8.8	2.046	2.884	13.3	20.8	8 29	19 45.13	-29 19.3	1.561	2.396	16.9	19.3
17532	1993 FD ₃₄		7 22.5	335°57	4°3/25.1	18	452563	2005 AF ₃₁		7 22.5	278°69	2°1/20.7	17
6 20	20 28.10	-6 52.2	1.925	2.779	13.7	19.0	6 20	20 30.70	-22 19.9	2.483	3.360	10.2	20.6
6 30	20 23.66	-6 59.2	1.849	2.774	10.7	18.8	6 30	20 25.52	-23 46.6	2.390	3.339	7.4	20.3
7 10	20 17.46	-7 21.6	1.795	2.770	7.5	18.6	7 10	20 18.59	-25 19.6	2.324	3.318	4.3	20.1
7 20	20 10.10	-7 58.5	1.766	2.766	4.7	18.5	7 20	20 10.38	-26 53.7	2.286	3.297	2.1	19.9
7 30	20 0.20	-8 47.2	1.763	2.762	4.7	18.4	7 30	20 0.63	-28 23.3	2.278	3.276	4.0	20.0
8 9	19 55.28	-9 43.7	1.786	2.758	7.4	18.6	8 9	19 53.17	-29 43.3	2.299	3.254	7.2	20.2
8 19	19 49.53	-10 43.6	1.834	2.755	10.7	18.8	8 19	19 45.83	-30 50.8	2.347	3.232	10.2	20.4
8 29	19 45.81	-11 42.5	1.905	2.752	13.8	19.0	8 29	19 40.32	-31 44.5	2.419	3.210	12.9	20.5
180455	2004 BZ ₁₆₂		7 22.5	59°52	3°0/23.7	17	436313	2010 FQ ₁₄		7 22.5	240°86	3°7/20.5	17
6 20	20 33.85	-12 52.4	1.353	2.236	16.6	20.1	6 20	20 33.35	-27 55.0	1.854	2.743	12.5	21.1
6 30	20 28.19	-12 45.6	1.304	2.250	12.4	19.9	6 30	20 27.69	-28 47.6	1.790	2.743	9.2	20.9
7 10	20 20.14	-12 51.9	1.274	2.265	7.8	19.7	7 10	20 19.87	-29 39.4	1.750	2.742	5.8	20.7
7 20	20 10.63	-13 9.3	1.268	2.279	3.6	19.4	7 20	20 10.63	-30 24.8	1.736	2.742	3.7	20.5
7 30	20 0.95	-13 34.4	1.287	2.294	4.5	19.5	7 30	20 1.03	-30 58.7	1.748	2.741	5.5	20.6
8 9	19 52.41	-14 3.0	1.331	2.309	8.8	19.8	8 9	19 52.25	-31 18.2	1.786	2.741	8.8	20.8
8 19	19 46.03	-14 31.6	1.397	2.324	13.0	20.1	8 19	19 45.27	-31 23.1	1.848	2.740	12.2	21.1
8 29	19 42.46	-14 57.3	1.484	2.339	16.6	20.4	8 29	19 40.79	-31 14.9	1.931	2.740	15.1	21.3
475674	2006 VE ₄₆		7 22.5	227°75	0°4/22.7	18	213487	2002 FP ₃₁		7 22.5	107°25	4°5/20.7	17
6 20	20 31.09	-18 1.5	2.399	3.270	10.7	22.4	6 20	20 38.43	-28 26.8	1.457	2.350	15.0	20.6
6 30	20 25.56	-18 13.3	2.318	3.263	7.8	22.2	6 30	20 31.69	-29 19.8	1.408	2.362	11.1	20.4
7 10	20 18.45	-18 30.0	2.261	3.255	4.5	22.0	7 10	20 22.24	-30 10.4	1.381	2.373	7.0	20.2
7 20	20 10.30	-18 49.4	2.232	3.247	1.1	21.8	7 20	20 11.12	-30 51.3	1.378	2.384	4.5	20.1
7 30	20 1.86	-19 9.1	2.231	3.239	2.7	21.9	7 30	19 59.76	-31 16.5	1.401	2.395	6.4	20.2
8 9	19 53.93	-19 26.9	2.258	3.230	6.1	22.1	8 9	19 49.67	-31 23.8	1.449	2.406	10.3	20.5
8 19	19 47.24	-19 41.2	2.312	3.221	9.3	22.3	8 19	19 42.02	-31 14.3	1.519	2.416	14.1	20.7
8 29	19 42.36	-19 51.2	2.389	3.212	12.1	22.5	8 29	19 37.52	-30 51.2	1.609	2.426	17.3	21.0
204520	2005 ER ₃₃		7 22.5	37°16	0°9/22.9	18	260852	2005 QH ₇₉		7 22.5	21°45	3°6/23.8	18
6 20	20 32.06</												

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
481242	2005 <i>WM</i> ₁₃₅		7 22.5 189°63	1°0/23.1	18		42595	1997 <i>PL</i>		7 22.5 287°62	5°1/24.2	18	
6 20	20 30.24	-16 18.2	2.942	3.802	9.3	22.4	6 20	20 33.31	-9 36.2	1.331	2.207	17.3	18.4
6 30	20 24.67	-16 17.6	2.863	3.801	6.8	22.2	6 30	20 28.29	-9 8.0	1.252	2.192	13.5	18.1
7 10	20 17.84	-16 21.2	2.810	3.800	4.1	22.0	7 10	20 20.56	-8 55.2	1.193	2.176	9.3	17.8
7 20	20 10.22	-16 27.9	2.784	3.798	1.4	21.8	7 20	20 10.89	-8 58.6	1.156	2.160	5.7	17.5
7 30	20 2.42	-16 36.2	2.789	3.795	2.3	21.9	7 30	20 0.51	-9 16.8	1.143	2.144	6.1	17.5
8 9	19 55.07	-16 44.5	2.822	3.793	5.1	22.1	8 9	19 50.89	-9 46.3	1.153	2.129	10.1	17.7
8 19	19 48.71	-16 51.9	2.882	3.790	7.8	22.2	8 19	19 43.32	-10 22.6	1.186	2.113	14.7	17.9
8 29	19 43.83	-16 57.3	2.968	3.786	10.1	22.4	8 29	19 38.81	-11 1.1	1.237	2.098	18.9	18.1
504075	2006 <i>AM</i> ₄₇		7 22.5 123°02	0°4/22.8	17		342527	2008 <i>UH</i> ₂₀₆		7 22.5 235°57	6°0/26.3	18	
6 20	20 32.45	-15 28.0	1.906	2.780	13.0	21.6	6 20	20 30.82	-0 30.1	2.312	3.122	13.1	22.0
6 30	20 26.83	-16 26.6	1.844	2.790	9.4	21.4	6 30	20 25.48	-0 24.2	2.219	3.108	10.8	21.8
7 10	20 19.29	-17 35.1	1.806	2.800	5.5	21.2	7 10	20 18.52	-0 35.0	2.148	3.093	8.4	21.6
7 20	20 10.54	-18 49.1	1.795	2.810	1.2	20.9	7 20	20 10.42	-1 2.9	2.102	3.078	6.4	21.4
7 30	20 1.49	-20 2.9	1.811	2.819	3.1	21.1	7 30	20 1.92	-1 47.0	2.083	3.062	6.2	21.4
8 9	19 53.16	-21 11.6	1.855	2.828	7.2	21.3	8 9	19 53.82	-2 44.2	2.092	3.045	7.8	21.5
8 19	19 46.39	-22 11.6	1.925	2.837	10.8	21.6	8 19	19 46.88	-3 50.3	2.126	3.028	10.4	21.6
8 29	19 41.84	-23 0.9	2.018	2.845	13.9	21.8	8 29	19 41.71	-5 0.8	2.183	3.010	13.0	21.8
438375	2006 <i>TF</i> ₄₆		7 22.5 267°06	0°4/22.3	18		120817	1998 <i>HW</i> ₅₅		7 22.5 99°65	0°8/22.1	17	
6 20	20 30.87	-19 45.7	2.124	3.004	11.6	21.7	6 20	20 33.91	-20 33.9	1.801	2.685	13.1	20.1
6 30	20 25.65	-20 10.5	2.045	2.995	8.4	21.5	6 30	20 27.93	-21 6.4	1.746	2.698	9.5	19.9
7 10	20 18.63	-20 40.3	1.990	2.986	4.8	21.3	7 10	20 19.93	-21 43.5	1.714	2.710	5.4	19.7
7 20	20 10.41	-21 11.9	1.961	2.976	1.0	21.0	7 20	20 10.69	-22 20.8	1.708	2.723	1.3	19.4
7 30	20 1.83	-21 42.0	1.960	2.967	3.1	21.1	7 30	20 1.26	-22 54.3	1.729	2.736	3.5	19.6
8 9	19 53.83	-22 7.8	1.986	2.958	6.9	21.4	8 9	19 52.72	-23 20.8	1.777	2.748	7.6	19.9
8 19	19 47.21	-22 27.3	2.038	2.948	10.4	21.6	8 19	19 45.94	-23 38.9	1.850	2.760	11.3	20.1
8 29	19 42.64	-22 39.9	2.112	2.939	13.4	21.7	8 29	19 41.55	-23 48.5	1.944	2.772	14.3	20.4
73883	Asterade		7 22.5 198°61	4°5/20.5	18		90593	3003 <i>P-L</i>		7 22.5 262°86	2°8/21.1	18	
6 20	20 38.83	-30 31.6	1.825	2.707	13.0	19.8	6 20	20 34.44	-29 18.1	2.558	3.432	10.0	19.7
6 30	20 31.76	-31 13.1	1.758	2.705	9.7	19.6	6 30	20 28.06	-29 30.5	2.469	3.414	7.4	19.5
7 10	20 22.26	-31 50.8	1.714	2.702	6.4	19.4	7 10	20 19.96	-29 39.9	2.406	3.395	4.7	19.3
7 20	20 11.16	-32 18.7	1.696	2.698	4.5	19.3	7 20	20 10.72	-29 43.0	2.370	3.376	2.8	19.1
7 30	19 59.69	-32 31.9	1.704	2.694	6.1	19.4	7 30	20 1.15	-29 37.3	2.363	3.357	4.2	19.2
8 9	19 49.16	-32 28.7	1.739	2.689	9.4	19.6	8 9	19 52.14	-29 21.7	2.384	3.338	7.0	19.3
8 19	19 40.67	-32 10.0	1.798	2.683	12.8	19.8	8 19	19 44.48	-28 56.6	2.431	3.318	9.8	19.5
8 29	19 34.98	-31 38.9	1.878	2.677	15.8	20.0	8 29	19 38.76	-28 23.6	2.501	3.298	12.4	19.6
295936	2008 <i>XD</i> ₁₁		7 22.5 321°59	5°8/24.5	18		116283	2003 <i>YS</i> ₅₁		7 22.5 281°84	1°9/21.7	18	
6 20	20 28.03	-8 19.2	1.310	2.191	17.2	19.4	6 20	20 34.29	-22 16.2	1.482	2.376	14.8	20.3
6 30	20 24.65	-7 52.7	1.215	2.155	13.7	19.1	6 30	20 29.01	-22 56.7	1.400	2.357	10.8	20.0
7 10	20 18.61	-7 43.4	1.138	2.120	9.7	18.7	7 10	20 21.00	-23 43.4	1.340	2.338	6.3	19.7
7 20	20 10.50	-7 53.0	1.083	2.085	6.4	18.5	7 20	20 11.00	-24 30.8	1.305	2.319	2.1	19.4
7 30	20 1.41	-8 21.1	1.050	2.051	6.6	18.4	7 30	20 0.26	-25 12.5	1.294	2.299	4.8	19.5
8 9	19 52.79	-9 4.4	1.040	2.018	10.6	18.5	8 9	19 50.25	-25 43.6	1.309	2.280	9.7	19.7
8 19	19 46.00	-9 57.6	1.051	1.986	15.4	18.6	8 19	19 42.29	-26 2.0	1.346	2.260	14.3	19.9
8 29	19 42.24	-10 54.4	1.080	1.955	20.0	18.8	8 29	19 37.38	-26 7.8	1.403	2.240	18.3	20.1
317946	2003 <i>WS</i> ₇₅		7 22.5 191°83	1°1/22.0	17		255400	2005 <i>WE</i> ₁₈₆		7 22.5 122°95	4°4/19.0	18	
6 20	20 34.63	-23 2.6	1.991	2.872	12.2	20.4	6 20	20 31.89	-31 57.3	2.543	3.421	9.9	19.9
6 30	20 28.37	-23 9.4	1.921	2.872	8.8	20.2	6 30	20 26.26	-33 13.4	2.486	3.429	7.5	19.8
7 10	20 20.16	-23 17.5	1.875	2.871	5.1	20.0	7 10	20 18.94	-34 26.4	2.455	3.436	5.3	19.7
7 20	20 10.72	-23 23.7	1.855	2.870	1.4	19.7	7 20	20 10.52	-35 30.9	2.452	3.443	4.4	19.6
7 30	20 1.03	-23 25.3	1.863	2.869	3.5	19.9	7 30	20 1.80	-36 22.7	2.477	3.450	5.6	19.7
8 9	19 52.11	-23 20.9	1.899	2.868	7.3	20.1	8 9	19 53.66	-36 59.4	2.529	3.457	7.9	19.9
8 19	19 44.83	-23 10.1	1.959	2.866	10.9	20.3	8 19	19 46.87	-37 20.6	2.605	3.464	10.2	20.0
8 29	19 39.85	-22 53.6	2.042	2.865	13.9	20.5	8 29	19 42.03	-37 27.7	2.704	3.470	12.3	20.2
23642	1997 <i>AD</i> ₁₅		7 22.5 262°34	1°8/21.7	18		123822	2001 <i>BS</i> ₈₀		7 22.5 162°01	2°6/24.5	18	
6 20	20 34.55	-21 41.3	1.593	2.482	14.2	19.5	6 20	20 28.70	-8 57.0	2.413	3.262	11.4	19.8
6 30	20 29.00	-22 28.6	1.512	2.467	10.4	19.2	6 30	20 23.83	-9 33.3	2.337	3.264	8.7	19.6
7 10	20 20.88	-23 22.5	1.454	2.451	6.0	18.9	7 10	20 17.49	-10 21.7	2.286	3.265	5.7	19.4
7 20	20 10.93	-24 17.5	1.421	2.435	2.0	18.6	7 20	20 10.22	-11 20.1	2.261	3.267	3.0	19.2
7 30	20 0.31	-25 7.3	1.414	2.418	4.6	18.8	7 30	20 2.68	-12 25.2	2.265	3.268	3.2	19.3
8 9	19 50.38	-25 47.1	1.433	2.402	9.2	19.0	8 9	19 55.61	-13 33.0	2.297	3.270	6.0	19.4
8 19	19 42.38	-26 14.4	1.475	2.385	13.6	19.2	8 19	19 49.68	-14 39.8	2.356	3.271	8.9	19.6
8 29	19 37.23	-26 28.9	1.537	2.367	17.4	19.4	8 29	19 45.41	-15 42.4	2.439	3.272	11.6	19.8
381864	2009 <i>YP</i> ₂₂		7 22.5 152°55	4°3/19.8	17		366256	2012 <i>YO</i> ₇		7 22.5 185°61	2°8/24.4	18	
6 20	20 34.82	-28 38.7	1.967	2.852	12.1	21.0	6 20	20 30.59	-9 33.8	2.749	3.591	10.4	21.4
6 30	20 28.73	-29 58.8	1.908	2.857	8.9	20.8	6 30	20 25.00	-9 31.4	2.669	3.591	8.0	21.3
7 10	20 20.48	-31 18.2	1.873	2.862	5.8	20.6	7 10	20 18.10	-9 37.7	2.614	3.590	5.3	21.1
7 20	20 10.82	-32 30.1	1.866	2.867	4.3	20.5	7 20	20 10.34	-9 51.9	2.586	3.589	3.2	21.0
7 30	20 0.77	-33 28.4	1.885	2.871	6.0	20.6	7 30	20 2.37	-10 12.6	2.588	3.587	3.3	21.0
8 9	19 51.49	-34 9.7	1.931	2.875	9.0	20.8	8 9	19 54.85	-10 37.7	2.617	3.585	5.7	21.1
8 19	19 43.95	-34 33.5	2.002	2.879	12.1	21.0	8 19	19 48.36	-11 5.1	2.674	3.582	8.3	21.3
8 29	19 38.88	-34 41.3	2.093	2.882	14.8	21.2	8 29	19 43.39	-11 32.8	2.755	3.578	10.7	21.4
131260	2001 <i>FG</i> ₃₃		7 22.5 90°48	7°7/27.4	18		98168	2000 <i>SV</i> ₈₆		7 22.5 234°17	3°9/20.6		

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
182212	2000 <i>WN</i> ₁₂₂		7 22.5 225°87		2°0/21.2 18		27020	1998 <i>OQ</i> ₁₀		7 22.6 107°84		0°1/22.6 18	
6 20	20 31.01	-24 46.3	2.515	3.394	10.0	20.7	6 20	20 36.16	-18 46.5	1.271	2.166	16.7	17.7
6 30	20 25.57	-25 26.7	2.438	3.387	7.3	20.5	6 30	20 30.31	-19 5.1	1.213	2.169	12.2	17.4
7 10	20 18.54	-26 8.4	2.386	3.380	4.3	20.3	7 10	20 21.65	-19 32.1	1.175	2.172	7.0	17.2
7 20	20 10.46	-26 47.7	2.362	3.373	2.0	20.1	7 20	20 11.15	-20 2.8	1.160	2.175	1.5	16.8
7 30	20 2.06	-27 21.3	2.366	3.366	3.6	20.2	7 30	20 0.26	-20 32.2	1.170	2.178	4.2	17.0
8 9	19 54.17	-27 46.7	2.398	3.358	6.6	20.4	8 9	19 50.52	-20 55.9	1.204	2.181	9.6	17.3
8 19	19 47.50	-28 2.8	2.456	3.350	9.5	20.6	8 19	19 43.20	-21 11.8	1.260	2.184	14.3	17.6
8 29	19 42.65	-28 9.7	2.537	3.341	12.0	20.8	8 29	19 39.11	-21 19.4	1.336	2.187	18.3	17.9
252936	2002 <i>PD</i> ₁₃		7 22.5 38°03		2°8/23.8 17		505495	2013 <i>WH</i> ₆₃		7 22.6 240°87		4°1/24.1 18	
6 20	20 31.75	-12 11.8	1.243	2.132	17.4	20.1	6 20	20 34.87	-9 44.4	2.093	2.941	13.0	21.3
6 30	20 26.99	-12 28.0	1.190	2.140	13.0	19.9	6 30	20 28.54	-9 4.8	2.005	2.928	10.1	21.1
7 10	20 19.66	-13 0.6	1.156	2.148	8.1	19.6	7 10	20 20.34	-8 34.1	1.940	2.915	7.0	20.9
7 20	20 10.70	-13 46.4	1.145	2.157	3.5	19.4	7 20	20 10.88	-8 13.0	1.902	2.901	4.5	20.7
7 30	20 1.42	-14 40.0	1.158	2.166	4.4	19.5	7 30	20 1.00	-8 1.2	1.891	2.887	4.8	20.7
8 9	19 53.24	-15 35.4	1.195	2.176	9.1	19.8	8 9	19 51.67	-7 57.6	1.908	2.872	7.6	20.8
8 19	19 47.27	-16 27.2	1.254	2.186	13.7	20.1	8 19	19 43.75	-8 0.6	1.950	2.857	10.9	21.0
8 29	19 44.27	-17 11.7	1.333	2.197	17.6	20.4	8 29	19 37.91	-8 7.9	2.015	2.842	13.9	21.2
115705	2003 <i>UU</i> ₁₆₆		7 22.6 260°32		0°1/22.5 18		314109	2005 <i>EU</i> ₈₇		7 22.6 141°77		2°7/21.4 17	
6 20	20 33.21	-19 41.8	1.886	2.767	12.7	19.6	6 20	20 38.57	-25 41.6	1.733	2.616	13.6	21.2
6 30	20 27.51	-19 48.4	1.811	2.761	9.3	19.4	6 30	20 31.46	-26 15.4	1.675	2.626	9.8	21.0
7 10	20 19.79	-19 59.5	1.759	2.755	5.4	19.2	7 10	20 22.05	-26 48.9	1.642	2.636	5.9	20.7
7 20	20 10.73	-20 12.3	1.733	2.748	1.1	18.9	7 20	20 11.21	-27 17.0	1.634	2.645	2.8	20.6
7 30	20 1.33	-20 23.9	1.734	2.742	3.2	19.0	7 30	20 0.14	-27 35.3	1.653	2.653	4.8	20.7
8 9	19 52.64	-20 32.1	1.762	2.735	7.4	19.3	8 9	19 50.11	-27 41.7	1.699	2.661	8.6	21.0
8 19	19 45.57	-20 35.5	1.814	2.728	11.2	19.5	8 19	19 42.13	-27 36.3	1.770	2.669	12.3	21.2
8 29	19 40.81	-20 33.8	1.889	2.721	14.5	19.7	8 29	19 36.87	-27 21.0	1.861	2.675	15.4	21.4
318482	2005 <i>EF</i> ₈₉		7 22.6 201°41		1°7/21.9 17		431373	2007 <i>ES</i> ₆₄		7 22.6 358°95		8°7/19.2 17	
6 20	20 37.62	-23 24.0	1.674	2.559	13.9	21.8	6 20	20 39.05	-39 13.8	1.493	2.377	15.3	20.7
6 30	20 30.95	-23 43.8	1.604	2.556	10.1	21.5	6 30	20 32.55	-40 10.9	1.440	2.376	12.3	20.5
7 10	20 21.86	-24 5.5	1.557	2.553	5.9	21.3	7 10	20 22.97	-40 55.1	1.407	2.376	9.7	20.4
7 20	20 11.17	-24 24.7	1.536	2.550	1.9	21.0	7 20	20 11.43	-41 17.8	1.398	2.375	8.7	20.3
7 30	20 0.09	-24 37.3	1.541	2.546	4.2	21.1	7 30	19 59.57	-41 13.4	1.412	2.375	10.1	20.4
8 9	19 49.93	-24 40.9	1.573	2.541	8.6	21.4	8 9	19 49.11	-40 41.6	1.450	2.376	12.8	20.5
8 19	19 41.78	-24 35.2	1.629	2.536	12.7	21.6	8 19	19 41.38	-39 46.5	1.508	2.376	15.8	20.7
8 29	19 36.40	-24 21.2	1.705	2.531	16.1	21.8	8 29	19 37.16	-38 34.6	1.585	2.377	18.6	20.9
472926	2015 <i>GS</i> ₁₈		7 22.6 296°90		3°7/20.9 18		119939	2002 <i>GN</i> ₆₉		7 22.6 250°33		5°4/26.1 18	
6 20	20 34.87	-27 30.0	1.565	2.460	14.1	20.8	6 20	20 28.61	-1 12.5	2.619	3.429	11.7	20.5
6 30	20 29.23	-28 5.8	1.494	2.450	10.4	20.6	6 30	20 23.74	-0 58.7	2.526	3.415	9.6	20.3
7 10	20 21.00	-28 41.0	1.445	2.440	6.5	20.3	7 10	20 17.48	-0 58.8	2.456	3.401	7.5	20.1
7 20	20 11.01	-29 9.5	1.421	2.430	3.7	20.1	7 20	20 10.29	-1 13.1	2.412	3.386	5.8	20.0
7 30	20 0.53	-29 26.1	1.422	2.420	5.7	20.2	7 30	20 2.78	-1 41.1	2.395	3.371	5.6	20.0
8 9	19 50.96	-29 28.0	1.448	2.411	9.8	20.5	8 9	19 55.63	-2 20.6	2.404	3.356	7.1	20.1
8 19	19 43.51	-29 15.5	1.497	2.402	13.8	20.7	8 19	19 49.46	-3 8.5	2.440	3.340	9.3	20.2
8 29	19 39.00	-28 50.6	1.566	2.392	17.2	20.9	8 29	19 44.82	-4 1.3	2.500	3.325	11.6	20.3
362936	2012 <i>UL</i> ₈₄		7 22.6 315°94		8°5/16.4 18		355622	2008 <i>DW</i> ₅₉		7 22.6 184°38		5°4/19.9 18	
6 20	20 32.50	-34 18.8	1.499	2.398	14.4	19.8	6 20	20 36.54	-36 13.0	2.218	3.091	11.4	20.7
6 30	20 28.16	-36 31.8	1.428	2.377	11.4	19.6	6 30	20 29.79	-36 42.2	2.155	3.091	8.8	20.5
7 10	20 20.78	-38 44.2	1.379	2.356	9.0	19.4	7 10	20 21.01	-37 3.3	2.116	3.091	6.5	20.4
7 20	20 11.04	-40 43.9	1.355	2.335	8.7	19.3	7 20	20 11.01	-37 11.6	2.104	3.091	5.4	20.3
7 30	20 0.26	-42 19.4	1.356	2.315	10.7	19.4	7 30	20 0.81	-37 3.9	2.118	3.090	6.5	20.4
8 9	19 50.16	-43 23.9	1.379	2.296	13.9	19.5	8 9	19 51.51	-36 39.8	2.158	3.090	8.9	20.5
8 19	19 42.32	-43 56.4	1.422	2.277	17.3	19.7	8 19	19 43.98	-36 1.1	2.223	3.090	11.4	20.7
8 29	19 37.96	-44 0.4	1.482	2.259	20.3	19.8	8 29	19 38.85	-35 11.1	2.310	3.090	13.8	20.9
393062	2013 <i>AJ</i> ₇₃		7 22.6 85°63		4°0/20.1 18		466262	2013 <i>KG</i> ₁₄		7 22.6 352°64		2°3/21.5 17	
6 20	20 32.76	-29 33.2	2.097	2.982	11.5	20.8	6 20	20 26.58	-20 5.9	0.936	1.861	18.4	20.0
6 30	20 27.06	-30 32.0	2.043	2.992	8.5	20.6	6 30	20 24.13	-21 15.3	0.881	1.853	13.4	19.6
7 10	20 19.46	-31 28.4	2.013	3.001	5.5	20.5	7 10	20 18.49	-22 38.5	0.844	1.846	7.7	19.3
7 20	20 10.66	-32 17.1	2.009	3.011	4.0	20.4	7 20	20 10.57	-24 6.6	0.827	1.841	2.5	19.0
7 30	20 1.62	-32 53.6	2.033	3.020	5.5	20.5	7 30	20 1.98	-25 28.5	0.831	1.838	5.9	19.2
8 9	19 53.35	-33 15.6	2.083	3.029	8.3	20.7	8 9	19 54.59	-26 34.9	0.856	1.837	11.8	19.5
8 19	19 46.70	-33 23.0	2.157	3.039	11.2	20.9	8 19	19 49.92	-27 20.7	0.900	1.836	17.2	19.8
8 29	19 42.30	-33 17.5	2.253	3.048	13.7	21.1	8 29	19 48.98	-27 45.2	0.960	1.838	21.7	20.1
387292	2012 <i>UY</i> ₁₆₇		7 22.6 270°55		4°0/21.1 18		296166	2009 <i>BT</i> ₁₂₉		7 22.6 144°60		0°4/22.3 18	
6 20	20 37.43	-30 35.3	1.841	2.724	12.9	20.8	6 20	20 31.15	-18 53.7	1.950	2.832	12.3	21.1
6 30	20 30.72	-30 49.6	1.769	2.717	9.6	20.5	6 30	20 25.97	-19 32.3	1.881	2.832	9.0	20.9
7 10	20 21.68	-30 58.9	1.720	2.709	6.2	20.3	7 10	20 18.90	-20 17.5	1.836	2.832	5.1	20.7
7 20	20 11.13	-30 58.5	1.697	2.702	4.0	20.2	7 20	20 10.60	-21 5.3	1.817	2.833	1.1	20.4
7 30	20 0.27	-30 45.0	1.701	2.694	5.6	20.3	7 30	20 1.97	-21 51.4	1.826	2.833	3.2	20.6
8 9	19 50.35	-30 17.6	1.731	2.687	9.0	20.4	8 9	19 54.01	-22 32.2	1.861	2.833	7.2	20.8
8 19	19 42.40	-29 38.0	1.785	2.679	12.4	20.6	8 19	19 47.57	-23 5.2	1.922	2.834	10.8	21.1
8 29	19 37.15	-28 49.1	1.860	2.672	15.5	20.8	8 29	19 43.30	-23 29.5	2.004	2.834	13.9	21.3
3758	Karttunen		7 22.6 155°55		4°5/19.6 18		33732	1999 <i>NC</i> ₃₂					

EPHEMERIDES

7 22.6

7 22.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
444776	2007 <i>TR</i> ₂₃		7 22.6 189°77	15°0/16.9	18		279437	2010 <i>OV</i> ₁₀		7 22.6 344°86	11°1/15.7	18	
6 20	20 57.09	-51 20.9	1.366	2.208	18.8	21.0	6 20	20 37.86	-48 17.4	1.853	2.706	14.1	19.8
6 30	20 47.07	-53 1.6	1.322	2.208	16.7	20.8	6 30	20 31.75	-49 43.1	1.803	2.701	12.4	19.7
7 10	20 31.93	-54 16.3	1.296	2.207	15.3	20.7	7 10	20 22.61	-50 51.6	1.775	2.696	11.3	19.6
7 20	20 13.36	-54 50.3	1.290	2.205	15.0	20.7	7 20	20 11.43	-51 34.6	1.769	2.691	11.2	19.6
7 30	19 54.30	-54 34.8	1.305	2.203	16.1	20.8	7 30	19 59.80	-51 46.3	1.785	2.687	12.2	19.6
8 9	19 37.88	-53 32.3	1.341	2.199	18.1	20.9	8 9	19 49.41	-51 26.4	1.823	2.683	13.9	19.7
8 19	19 26.18	-51 53.1	1.394	2.195	20.4	21.0	8 19	19 41.62	-50 38.7	1.880	2.680	15.9	19.9
8 29	19 20.02	-49 50.3	1.463	2.189	22.6	21.2	8 29	19 37.29	-49 29.3	1.954	2.677	17.7	20.0
383325	2006 <i>JR</i> ₄₁		7 22.6 29°17	4°8/19.5	18		190321	1998 <i>HH</i> ₄₂		7 22.6 182°24	1°3/23.4	18	
6 20	20 31.49	-26 23.3	1.474	2.376	14.4	19.5	6 20	20 32.66	-14 20.7	2.170	3.034	12.0	20.9
6 30	20 26.84	-28 12.7	1.425	2.384	10.5	19.3	6 30	20 26.88	-14 44.1	2.096	3.035	8.9	20.7
7 10	20 19.65	-30 4.4	1.399	2.393	6.7	19.1	7 10	20 19.37	-15 16.2	2.045	3.035	5.3	20.5
7 20	20 10.79	-31 48.7	1.398	2.402	4.8	19.0	7 20	20 10.73	-15 54.4	2.022	3.035	1.9	20.3
7 30	20 1.50	-33 16.5	1.423	2.412	7.0	19.2	7 30	20 1.80	-16 35.5	2.027	3.034	2.9	20.3
8 9	19 53.18	-34 22.2	1.472	2.423	10.7	19.4	8 9	19 53.44	-17 16.2	2.060	3.033	6.5	20.6
8 19	19 46.98	-35 4.5	1.543	2.434	14.2	19.7	8 19	19 46.46	-17 53.8	2.119	3.031	9.9	20.8
8 29	19 43.68	-35 25.3	1.634	2.446	17.3	19.9	8 29	19 41.45	-18 26.4	2.201	3.029	12.9	21.0
61947	2000 <i>RG</i> ₁₄		7 22.6 214°20	4°3/25.0	18		446213	2013 <i>GL</i> ₄₅		7 22.6 62°89	0°1/22.5	18	
6 20	20 30.05	-6 27.8	2.351	3.189	12.0	19.4	6 20	20 30.14	-19 7.7	2.211	3.090	11.2	21.4
6 30	20 24.84	-6 11.9	2.271	3.185	9.5	19.2	6 30	20 25.00	-19 29.7	2.146	3.095	8.1	21.2
7 10	20 18.13	-6 7.6	2.215	3.182	6.8	19.0	7 10	20 18.25	-19 56.5	2.105	3.101	4.6	21.0
7 20	20 10.45	-6 15.0	2.185	3.178	4.7	18.9	7 20	20 10.49	-20 25.2	2.091	3.106	0.9	20.7
7 30	20 2.48	-6 33.0	2.182	3.174	4.7	18.9	7 30	20 2.52	-20 52.8	2.104	3.112	2.8	20.9
8 9	19 55.02	-6 59.4	2.206	3.170	6.8	19.0	8 9	19 55.17	-21 16.8	2.145	3.117	6.4	21.1
8 19	19 48.73	-7 31.3	2.256	3.166	9.5	19.2	8 19	19 49.17	-21 35.5	2.212	3.123	9.6	21.3
8 29	19 44.16	-8 5.9	2.330	3.161	12.1	19.4	8 29	19 45.06	-21 48.1	2.301	3.129	12.4	21.5
164461	2006 <i>DR</i> ₁₂₉		7 22.6 350°03	0°7/22.3	17		515091	2010 <i>UV</i> ₅₆		7 22.6 233°81	5°0/18.5	18	
6 20	20 23.77	-17 11.8	0.854	1.783	19.2	18.8	6 20	20 33.46	-37 0.5	2.967	3.832	9.1	22.1
6 30	20 22.24	-18 10.5	0.798	1.771	14.1	18.5	6 30	20 27.38	-37 55.8	2.890	3.819	7.2	21.9
7 10	20 17.49	-19 28.5	0.758	1.762	8.2	18.1	7 10	20 19.65	-38 45.5	2.840	3.805	5.5	21.8
7 20	20 10.40	-20 58.5	0.738	1.754	1.7	17.7	7 20	20 10.80	-39 25.3	2.816	3.791	5.0	21.8
7 30	20 2.58	-22 29.2	0.738	1.748	5.3	17.9	7 30	20 1.60	-39 51.8	2.820	3.777	6.0	21.8
8 9	19 55.94	-23 49.5	0.758	1.744	11.7	18.2	8 9	19 52.88	-40 3.2	2.852	3.762	7.8	21.9
8 19	19 52.05	-24 51.9	0.796	1.742	17.5	18.5	8 19	19 45.38	-40 0.0	2.908	3.747	9.8	22.0
8 29	19 51.97	-25 33.0	0.849	1.743	22.3	18.8	8 29	19 39.73	-39 43.7	2.986	3.732	11.7	22.1
510675	2012 <i>UK</i> ₃₈		7 22.6 232°00	1°4/21.9	18		200506	2001 <i>AD</i> ₅₂		7 22.6 143°96	5°3/19.3	18	
6 20	20 33.95	-23 12.2	2.139	3.018	11.5	22.2	6 20	20 37.85	-35 29.3	2.398	3.266	10.8	21.0
6 30	20 27.95	-23 33.3	2.059	3.009	8.4	21.9	6 30	20 30.63	-36 25.2	2.345	3.278	8.3	20.9
7 10	20 20.03	-23 56.3	2.004	3.000	4.8	21.7	7 10	20 21.49	-37 14.2	2.318	3.290	6.2	20.8
7 20	20 10.86	-24 17.7	1.976	2.990	1.6	21.5	7 20	20 11.17	-37 51.0	2.318	3.301	5.3	20.8
7 30	20 1.33	-24 34.2	1.976	2.980	3.5	21.6	7 30	20 0.65	-38 11.9	2.345	3.312	6.4	20.8
8 9	19 52.42	-24 43.7	2.003	2.969	7.2	21.8	8 9	19 50.96	-38 15.8	2.399	3.321	8.6	21.0
8 19	19 44.99	-24 45.3	2.056	2.959	10.6	22.0	8 19	19 42.95	-38 3.9	2.478	3.331	10.9	21.2
8 29	19 39.73	-24 39.4	2.131	2.948	13.6	22.2	8 29	19 37.21	-37 38.9	2.579	3.339	13.0	21.3
175604	2006 <i>UL</i> ₂₂₈		7 22.6 279°55	3°2/21.0	18		224463	2005 <i>VW</i> ₄₁		7 22.6 194°81	5°3/25.7	18	
6 20	20 33.94	-28 28.9	2.060	2.944	11.7	19.7	6 20	20 32.28	-3 3.4	2.305	3.125	12.8	21.0
6 30	20 27.96	-28 54.1	1.993	2.943	8.6	19.5	6 30	20 26.50	-2 52.5	2.224	3.123	10.3	20.9
7 10	20 20.02	-29 17.0	1.951	2.942	5.4	19.3	7 10	20 19.13	-2 56.2	2.165	3.120	7.7	20.7
7 20	20 10.85	-29 33.4	1.934	2.942	3.2	19.2	7 20	20 10.69	-3 14.6	2.132	3.116	5.7	20.6
7 30	20 1.43	-29 40.0	1.945	2.941	4.7	19.3	7 30	20 1.95	-3 46.5	2.127	3.111	5.5	20.6
8 9	19 52.78	-29 35.2	1.983	2.940	7.9	19.5	8 9	19 53.70	-4 29.1	2.148	3.106	7.4	20.7
8 19	19 45.79	-29 19.4	2.045	2.940	11.1	19.7	8 19	19 46.67	-5 18.8	2.196	3.100	10.0	20.8
8 29	19 41.09	-28 54.2	2.129	2.939	13.9	19.9	8 29	19 41.45	-6 11.7	2.268	3.093	12.6	21.0
100070	1992 <i>EX</i> ₂₉		7 22.6 230°93	2°7/24.1	18		201511	2003 <i>OY</i> ₅		7 22.6 351°16	2°9/23.5	18	
6 20	20 33.09	-10 27.5	2.027	2.882	13.0	20.7	6 20	20 25.97	-14 55.8	1.076	1.987	17.7	19.0
6 30	20 27.41	-10 49.7	1.938	2.869	9.9	20.5	6 30	20 23.28	-14 34.8	1.012	1.974	13.3	18.7
7 10	20 19.80	-11 24.9	1.873	2.856	6.4	20.2	7 10	20 17.83	-14 26.4	0.967	1.964	8.3	18.4
7 20	20 10.84	-12 11.1	1.834	2.842	3.2	20.0	7 20	20 10.48	-14 29.5	0.942	1.955	3.5	18.1
7 30	20 1.39	-13 5.1	1.822	2.827	3.7	20.0	7 30	20 2.59	-14 41.5	0.940	1.948	4.8	18.1
8 9	19 52.42	-14 2.6	1.839	2.812	7.2	20.2	8 9	19 55.71	-14 58.5	0.958	1.944	10.0	18.4
8 19	19 44.85	-14 59.7	1.881	2.796	10.9	20.4	8 19	19 51.12	-15 16.6	0.997	1.941	15.0	18.7
8 29	19 39.38	-15 53.0	1.946	2.779	14.1	20.6	8 29	19 49.73	-15 32.3	1.053	1.940	19.4	18.9
340455	2006 <i>GZ</i> ₄₇		7 22.6 259°51	3°9/20.6	17		513753	2012 <i>VN</i> ₁₀₉		7 22.6 231°01	2°3/23.8	18	
6 20	20 34.49	-28 38.6	1.810	2.699	12.8	21.1	6 20	20 32.29	-12 19.5	2.383	3.237	11.4	22.7
6 30	20 28.66	-29 23.5	1.744	2.696	9.5	20.9	6 30	20 26.55	-12 18.5	2.293	3.225	8.6	22.5
7 10	20 20.56	-30 6.8	1.702	2.694	6.0	20.7	7 10	20 19.19	-12 25.7	2.228	3.212	5.5	22.3
7 20	20 10.99	-30 42.7	1.686	2.691	3.9	20.5	7 20	20 10.72	-12 40.1	2.189	3.198	2.7	22.1
7 30	20 1.05	-31 6.5	1.695	2.689	5.6	20.6	7 30	20 1.89	-12 59.9	2.179	3.184	3.2	22.1
8 9	19 51.96	-31 15.6	1.731	2.686	9.0	20.8	8 9	19 53.52	-13 22.9	2.198	3.169	6.3	22.3
8 19	19 44.75	-31 10.3	1.790	2.684	12.5	21.1	8 19	19 46.34	-13 46.7	2.243	3.154	9.5	22.5
8 29	19 40.13	-30 52.5	1.870	2.681	15.5	21.3	8 29	19 40.97	-14 9.5	2.311	3.138	12.4	22.6
484753	2008 <i>YN</i> ₁₆₀		7 22.6 72°75	16°6/21.1	17		436919	2					

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7 22.6

7 22.6

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
512797	2016 <i>UG</i> ₈₄	7 22.6 306°69		1.4°/21.8 18			130548	2000 <i>QL</i> ₂₃₀	7 22.6 297°40		4.6°/20.5 18		
6 20	20 31.51	-22 17.2	1.870	2.758	12.5	21.4	6 20	20 34.75	-26 48.1	1.301	2.205	15.8	19.3
6 30	20 26.41	-22 48.0	1.796	2.750	9.1	21.2	6 30	20 29.73	-27 51.9	1.232	2.192	11.7	19.1
7 10	20 19.26	-23 22.4	1.745	2.742	5.2	20.9	7 10	20 21.65	-28 58.4	1.184	2.180	7.3	18.8
7 20	20 10.75	-23 56.6	1.720	2.734	1.6	20.7	7 20	20 11.36	-29 59.2	1.159	2.167	4.6	18.6
7 30	20 1.85	-24 26.3	1.722	2.727	3.8	20.8	7 30	20 0.33	-30 45.8	1.158	2.155	6.9	18.7
8 9	19 53.63	-24 48.4	1.750	2.719	7.8	21.0	8 9	19 50.28	-31 12.9	1.180	2.143	11.5	18.9
8 19	19 47.02	-25 1.5	1.802	2.712	11.5	21.3	8 19	19 42.67	-31 19.8	1.224	2.131	16.0	19.1
8 29	19 42.74	-25 5.4	1.875	2.705	14.7	21.4	8 29	19 38.53	-31 8.8	1.285	2.120	19.8	19.4
385842	2006 <i>HV</i> ₁₀₉	7 22.6 154°29		3.2°/24.7 18			516564	2007 <i>CS</i> ₃₇	7 22.6 213°24		0.2°/22.4 18		
6 20	20 30.81	- 8 8.2	2.036	2.887	13.2	20.6	6 20	20 30.66	-19 34.2	3.003	3.870	8.9	23.4
6 30	20 25.61	- 8 41.5	1.964	2.890	10.1	20.4	6 30	20 25.13	-19 58.3	2.918	3.861	6.5	23.3
7 10	20 18.69	- 9 29.5	1.915	2.894	6.7	20.2	7 10	20 18.28	-20 25.8	2.858	3.852	3.7	23.1
7 20	20 10.63	-10 30.0	1.892	2.897	3.7	20.0	7 20	20 10.58	-20 54.5	2.827	3.842	0.8	22.8
7 30	20 2.27	-11 39.1	1.897	2.900	3.8	20.1	7 30	20 2.61	-21 22.1	2.825	3.832	2.3	22.9
8 9	19 54.50	-12 51.9	1.929	2.902	6.9	20.3	8 9	19 55.03	-21 46.5	2.853	3.821	5.2	23.1
8 19	19 48.09	-14 3.8	1.987	2.905	10.2	20.5	8 19	19 48.42	-22 6.5	2.908	3.810	7.9	23.3
8 29	19 43.67	-15 11.0	2.069	2.907	13.2	20.7	8 29	19 43.27	-22 21.2	2.988	3.798	10.3	23.4
218959	2008 <i>EQ</i> ₆₈	7 22.6 314°25		8.8°/29.9 18			385237	2000 <i>SQ</i> ₂₈₁	7 22.6 268°30		2.8°/23.9 18		
6 20	20 27.45	+ 8 52.2	2.121	2.889	15.5	19.7	6 20	20 32.92	-11 53.1	1.909	2.772	13.4	21.2
6 30	20 23.27	+ 8 35.8	2.027	2.872	13.5	19.5	6 30	20 27.47	-11 51.7	1.815	2.751	10.2	20.9
7 10	20 17.41	+ 7 53.1	1.952	2.856	11.3	19.3	7 10	20 19.96	-12 1.1	1.743	2.728	6.6	20.7
7 20	20 10.38	+ 6 42.6	1.900	2.840	9.5	19.2	7 20	20 10.98	-12 20.4	1.697	2.706	3.3	20.4
7 30	20 2.93	+ 5 5.6	1.872	2.824	8.8	19.1	7 30	20 1.41	-12 47.3	1.678	2.683	3.9	20.4
8 9	19 55.89	+ 3 6.7	1.870	2.809	9.6	19.1	8 9	19 52.33	-13 18.8	1.686	2.660	7.6	20.6
8 19	19 50.04	+ 0 53.0	1.894	2.794	11.6	19.2	8 19	19 44.68	-13 51.7	1.719	2.636	11.5	20.8
8 29	19 46.04	- 1 27.1	1.942	2.779	14.0	19.4	8 29	19 39.28	-14 23.3	1.773	2.612	15.0	21.0
394946	2008 <i>YZ</i> ₂₃	7 22.6 291°40		0.2°/22.5 18			40822	1999 <i>TM</i> ₉₀	7 22.6 317°41		0.3°/22.7 18		
6 20	20 33.26	-18 15.5	1.823	2.703	13.1	20.9	6 20	20 31.54	-17 37.1	1.658	2.544	13.9	19.0
6 30	20 28.05	-18 52.1	1.718	2.667	9.7	20.6	6 30	20 26.59	-18 3.3	1.587	2.539	10.2	18.8
7 10	20 20.47	-19 38.3	1.635	2.631	5.7	20.3	7 10	20 19.46	-18 38.0	1.538	2.534	5.9	18.5
7 20	20 11.09	-20 30.3	1.578	2.594	1.2	19.9	7 20	20 10.86	-19 17.7	1.513	2.528	1.3	18.2
7 30	20 0.84	-21 23.4	1.549	2.556	3.6	20.0	7 30	20 1.83	-19 57.8	1.515	2.524	3.4	18.3
8 9	19 50.92	-22 12.5	1.545	2.518	8.3	20.2	8 9	19 53.55	-20 34.2	1.543	2.519	8.0	18.6
8 19	19 42.48	-22 54.1	1.567	2.479	12.8	20.4	8 19	19 47.01	-21 4.3	1.594	2.514	12.1	18.8
8 29	19 36.52	-23 26.2	1.610	2.441	16.7	20.6	8 29	19 42.96	-21 26.3	1.667	2.510	15.6	19.1
204532	2005 <i>EY</i> ₁₁₀	7 22.6 75°06		3.5°/20.6 18			323686	2005 <i>GW</i> ₂₀	7 22.6 187°63		10.0°/28.5 17		
6 20	20 33.90	-26 55.3	1.821	2.710	12.7	19.5	6 20	20 34.48	+ 9 46.9	2.213	2.957	15.5	21.7
6 30	20 28.06	-27 56.3	1.773	2.726	9.3	19.3	6 30	20 28.21	+10 33.5	2.135	2.957	13.7	21.6
7 10	20 20.14	-28 56.6	1.749	2.742	5.7	19.2	7 10	20 20.19	+10 58.3	2.077	2.956	11.8	21.5
7 20	20 10.94	-29 50.3	1.751	2.758	3.5	19.1	7 20	20 11.00	+10 58.3	2.041	2.954	10.4	21.4
7 30	20 1.54	-30 32.3	1.780	2.774	5.3	19.2	7 30	20 1.45	+10 32.8	2.030	2.951	10.0	21.3
8 9	19 53.06	-30 59.8	1.835	2.790	8.6	19.4	8 9	19 52.42	+ 9 44.0	2.044	2.947	10.8	21.4
8 19	19 46.42	-31 12.6	1.913	2.806	11.8	19.7	8 19	19 44.71	+ 8 36.5	2.081	2.941	12.4	21.5
8 29	19 42.24	-31 12.1	2.013	2.822	14.6	19.9	8 29	19 38.95	+ 7 16.4	2.141	2.935	14.3	21.6
509492	2007 <i>TX</i> ₃₆₇	7 22.6 296°57		2.8°/21.1 18			479205	2013 <i>CQ</i> ₁₀₉	7 22.6 165°67		2.9°/21.0 18		
6 20	20 32.40	-25 23.3	1.845	2.735	12.5	21.0	6 20	20 33.25	-27 53.2	2.283	3.164	10.8	21.6
6 30	20 27.14	-26 6.8	1.773	2.727	9.2	20.7	6 30	20 27.33	-28 23.2	2.217	3.165	7.9	21.4
7 10	20 19.74	-26 52.1	1.723	2.719	5.5	20.5	7 10	20 19.66	-28 51.6	2.175	3.167	4.9	21.2
7 20	20 10.89	-27 33.9	1.700	2.710	2.8	20.3	7 20	20 10.87	-29 14.5	2.160	3.168	2.9	21.1
7 30	20 1.61	-28 7.5	1.703	2.702	4.7	20.4	7 30	20 1.86	-29 28.7	2.173	3.169	4.3	21.2
8 9	19 53.04	-28 29.6	1.732	2.695	8.4	20.6	8 9	19 53.53	-29 32.5	2.214	3.170	7.3	21.4
8 19	19 46.18	-28 39.2	1.785	2.687	12.0	20.8	8 19	19 46.67	-29 25.9	2.279	3.171	10.2	21.6
8 29	19 41.75	-28 37.1	1.859	2.679	15.2	21.0	8 29	19 41.87	-29 10.1	2.367	3.171	12.8	21.7
512088	2015 <i>OH</i> ₃	7 22.6 353°77		4.8°/23.9 18			481099	2005 <i>ST</i> ₂₈₉	7 22.6 260°12		5.4°/18.2 18		
6 20	20 31.72	-10 55.3	1.617	2.488	15.0	19.8	6 20	20 33.51	-34 12.3	2.412	3.288	10.5	21.0
6 30	20 26.61	- 9 54.1	1.547	2.483	11.6	19.5	6 30	20 27.83	-35 35.3	2.334	3.272	8.1	20.8
7 10	20 19.39	- 9 2.7	1.499	2.479	8.0	19.3	7 10	20 20.14	-36 55.2	2.282	3.256	6.1	20.6
7 20	20 10.81	- 8 22.5	1.474	2.476	5.2	19.1	7 20	20 11.02	-38 5.7	2.256	3.239	5.5	20.6
7 30	20 1.90	- 7 54.3	1.475	2.473	5.6	19.2	7 30	20 1.34	-39 1.5	2.259	3.223	6.8	20.6
8 9	19 53.78	- 7 37.2	1.501	2.472	8.7	19.3	8 9	19 52.14	-39 39.5	2.287	3.205	9.1	20.7
8 19	19 47.40	- 7 29.5	1.551	2.471	12.4	19.6	8 19	19 44.35	-39 59.0	2.340	3.188	11.6	20.9
8 29	19 43.46	- 7 28.5	1.621	2.471	15.7	19.8	8 29	19 38.74	-40 1.7	2.414	3.171	13.9	21.0
253788	2003 <i>WT</i> ₁₆₈	7 22.6 156°46		4.6°/24.9 17			91728	1999 <i>TM</i> ₁₆₂	7 22.6 247°05		3.8°/25.2 18		
6 20	20 33.67	- 7 15.0	1.688	2.542	15.3	21.2	6 20	20 28.62	- 6 32.9	2.425	3.264	11.7	19.8
6 30	20 27.95	- 7 16.3	1.621	2.546	11.9	21.0	6 30	20 23.85	- 6 36.1	2.342	3.258	9.2	19.6
7 10	20 20.14	- 7 34.0	1.575	2.551	8.2	20.8	7 10	20 17.64	- 6 51.7	2.282	3.251	6.5	19.4
7 20	20 10.97	- 8 7.2	1.554	2.554	5.1	20.6	7 20	20 10.47	- 7 19.0	2.248	3.245	4.2	19.3
7 30	20 1.47	- 8 52.7	1.559	2.558	5.1	20.6	7 30	20 3.00	- 7 56.2	2.242	3.238	4.2	19.3
8 9	19 52.73	- 9 46.3	1.589	2.561	8.2	20.8	8 9	19 55.98	- 8 40.4	2.263	3.231	6.4	19.4
8 19	19 45.70	-10 42.9	1.645	2.564	11.9	21.0	8 19	19 50.05	- 9 28.4	2.311	3.224	9.2	19.6
8 29	19 41.08	-11 38.3	1.722	2.566	15.2	21.3	8 29	19 45.76	-10 17.1	2.382	3.217	11.8	19.7
280946	2006 <i>BZ</i> ₁₄₂	7 22.6 25°70		2.5°/23.9 17			105392	2000 <i>QB</i> ₁₄₀	7 22.6 33				

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
70618	1999 <i>TP</i> ₂₀₉		7 22.6 23°33'	1.4°/22.2	18		146286	2001 <i>FR</i> ₁₅₅		7 22.6 31°49'	2°1'/21.8	17	
6 20	20 37.41	-24 51.0	1.586	2.474	14.3	18.4	6 20	20 32.53	-21 50.6	1.104	2.016	17.4	19.2
6 30	20 30.78	-24 31.2	1.524	2.478	10.4	18.1	6 30	20 27.92	-22 36.5	1.062	2.027	12.5	18.9
7 10	20 21.77	-24 9.9	1.485	2.481	6.0	17.9	7 10	20 20.42	-23 28.4	1.039	2.039	7.2	18.7
7 20	20 11.33	-23 44.2	1.471	2.485	1.8	17.6	7 20	20 11.11	-24 19.2	1.038	2.053	2.3	18.4
7 30	20 0.71	-23 12.6	1.483	2.490	4.0	17.8	7 30	20 1.55	-25 1.7	1.060	2.067	5.2	18.6
8 9	19 51.21	-22 35.1	1.522	2.494	8.4	18.1	8 9	19 53.37	-25 31.1	1.105	2.082	10.3	19.0
8 19	19 43.84	-21 52.9	1.584	2.499	12.5	18.3	8 19	19 47.78	-25 46.1	1.171	2.097	15.0	19.3
8 29	19 39.27	-21 8.1	1.668	2.505	15.9	18.6	8 29	19 45.50	-25 47.5	1.255	2.114	18.8	19.6
360726	2004 <i>TD</i> ₂₂₅		7 22.6 347°32'	3°9'/24.6	18		498322	2007 <i>VG</i> ₁₇₀		7 22.6 187°60'	3°8'/20.7	17	
6 20	20 27.27	-9 19.5	1.690	2.561	14.5	20.5	6 20	20 37.60	-27 9.8	1.737	2.623	13.4	21.7
6 30	20 23.40	-9 16.5	1.616	2.552	11.2	20.3	6 30	20 31.08	-28 9.5	1.672	2.623	9.9	21.5
7 10	20 17.59	-9 28.1	1.563	2.545	7.6	20.0	7 10	20 22.09	-29 9.4	1.630	2.622	6.2	21.2
7 20	20 10.48	-9 53.4	1.533	2.538	4.5	19.8	7 20	20 11.47	-30 2.9	1.614	2.621	3.8	21.1
7 30	20 2.98	-10 30.0	1.529	2.532	4.6	19.8	7 30	20 0.40	-30 44.0	1.625	2.619	5.7	21.2
8 9	19 56.13	-11 13.9	1.550	2.527	7.9	20.0	8 9	19 50.21	-31 9.2	1.662	2.616	9.4	21.4
8 19	19 50.80	-12 0.9	1.595	2.523	11.6	20.2	8 19	19 42.01	-31 18.2	1.722	2.613	13.0	21.6
8 29	19 47.71	-12 46.8	1.661	2.520	14.9	20.4	8 29	19 36.60	-31 13.0	1.804	2.610	16.1	21.8
50008	2000 <i>AF</i> ₂₅		7 22.6 66°13'	1°2'/22.1	18	R	277458	2005 <i>UK</i> ₅₁₈		7 22.6 267°19'	0°5'/22.9	18	
6 20	20 35.63	-21 17.3	1.383	2.278	15.6	18.2	6 20	20 29.49	-16 1.4	2.246	3.119	11.3	21.0
6 30	20 29.67	-21 47.0	1.337	2.294	11.3	18.0	6 30	20 24.67	-16 42.7	2.168	3.113	8.3	20.8
7 10	20 21.20	-22 21.5	1.311	2.309	6.4	17.8	7 10	20 18.21	-17 32.4	2.113	3.107	4.9	20.6
7 20	20 11.22	-22 55.5	1.310	2.325	1.7	17.5	7 20	20 10.65	-18 27.2	2.086	3.101	1.2	20.3
7 30	20 1.08	-23 24.0	1.335	2.341	4.2	17.8	7 30	20 2.75	-19 23.3	2.086	3.094	2.7	20.4
8 9	19 52.15	-23 43.6	1.384	2.357	9.0	18.1	8 9	19 55.33	-20 16.9	2.115	3.088	6.4	20.7
8 19	19 45.48	-23 53.2	1.456	2.373	13.2	18.4	8 19	19 49.16	-21 5.0	2.170	3.082	9.7	20.9
8 29	19 41.76	-23 53.3	1.548	2.390	16.7	18.6	8 29	19 44.83	-21 45.6	2.247	3.076	12.6	21.0
344484	2002 <i>PP</i> ₁₉₇		7 22.6 252°06'	2°1'/23.7	18		522763	2016 <i>NV</i> ₇₅		7 22.6 321°34'	0°1'/22.6	17	
6 20	20 31.43	-13 5.7	1.997	2.864	12.7	21.1	6 20	20 30.71	-17 10.6	1.459	2.352	15.0	20.7
6 30	20 26.21	-13 14.4	1.917	2.856	9.6	20.9	6 30	20 26.33	-17 56.6	1.386	2.342	11.0	20.4
7 10	20 19.13	-13 33.1	1.859	2.847	6.0	20.7	7 10	20 19.51	-18 54.5	1.335	2.332	6.4	20.2
7 20	20 10.82	-13 59.9	1.827	2.838	2.6	20.5	7 20	20 10.97	-19 59.4	1.308	2.323	1.3	19.8
7 30	20 2.11	-14 32.2	1.823	2.829	3.4	20.5	7 30	20 1.85	-21 4.9	1.306	2.315	3.8	20.0
8 9	19 53.98	-15 6.6	1.845	2.820	7.0	20.7	8 9	19 53.50	-22 5.0	1.329	2.306	8.9	20.2
8 19	19 47.26	-15 40.4	1.893	2.811	10.6	20.9	8 19	19 47.05	-22 55.2	1.375	2.299	13.4	20.5
8 29	19 42.62	-16 11.0	1.964	2.802	13.8	21.1	8 29	19 43.40	-23 33.4	1.441	2.291	17.3	20.7
521008	2015 <i>CW</i> ₆₅		7 22.6 78°47'	2°3'/21.8	17		235889	2005 <i>CU</i> ₄₃		7 22.6 35°04'	2°7'/24.1	17	
6 20	20 37.04	-25 11.3	1.552	2.443	14.4	21.2	6 20	20 29.73	-10 56.3	1.365	2.249	16.5	19.3
6 30	20 30.64	-25 23.2	1.492	2.447	10.5	21.0	6 30	20 25.32	-11 32.4	1.322	2.269	12.3	19.1
7 10	20 21.77	-25 35.0	1.455	2.451	6.2	20.7	7 10	20 18.70	-12 25.1	1.299	2.289	7.7	18.9
7 20	20 11.36	-25 42.0	1.442	2.455	2.4	20.5	7 20	20 10.75	-13 30.2	1.300	2.311	3.4	18.7
7 30	20 0.69	-25 40.8	1.455	2.459	4.6	20.7	7 30	20 2.63	-14 41.6	1.325	2.333	4.0	18.8
8 9	19 51.12	-25 29.7	1.494	2.463	8.9	20.9	8 9	19 55.55	-15 52.8	1.375	2.356	8.2	19.1
8 19	19 43.71	-25 9.3	1.557	2.468	12.9	21.2	8 19	19 50.44	-16 58.2	1.448	2.379	12.3	19.4
8 29	19 39.17	-24 41.4	1.639	2.472	16.3	21.4	8 29	19 47.92	-17 54.4	1.543	2.403	15.8	19.7
363996	2005 <i>UL</i> ₃₃₀		7 22.6 219°23'	1°7'/23.7	18		352313	2007 <i>UP</i> ₇₄		7 22.6 314°84'	2°8'/21.2	18	
6 20	20 29.84	-13 32.3	2.610	3.468	10.4	22.6	6 20	20 33.32	-25 55.7	1.879	2.767	12.4	21.3
6 30	20 24.66	-13 40.4	2.527	3.462	7.7	22.5	6 30	20 27.74	-26 33.1	1.813	2.766	9.1	21.1
7 10	20 18.08	-13 55.6	2.470	3.456	4.8	22.3	7 10	20 20.08	-27 11.1	1.770	2.765	5.5	20.9
7 20	20 10.58	-14 16.6	2.439	3.450	2.1	22.1	7 20	20 11.05	-27 44.7	1.753	2.763	2.8	20.7
7 30	20 2.82	-14 41.4	2.437	3.443	2.7	22.1	7 30	20 1.70	-28 9.6	1.763	2.762	4.6	20.8
8 9	19 55.50	-15 7.7	2.463	3.436	5.6	22.3	8 9	19 53.13	-28 23.3	1.799	2.761	8.2	21.1
8 19	19 49.25	-15 33.5	2.516	3.429	8.6	22.5	8 19	19 46.27	-28 25.3	1.859	2.760	11.7	21.3
8 29	19 44.60	-15 57.1	2.593	3.421	11.2	22.6	8 29	19 41.83	-28 16.6	1.941	2.759	14.7	21.5
248968	2007 <i>BP</i> ₃₀		7 22.6 253°18'	4°2'/20.6	18		472911	2015 <i>FK</i> ₃₄₄		7 22.6 120°36'	6°9'/27.1	17	
6 20	20 36.23	-33 24.0	2.369	3.242	10.8	20.5	6 20	20 32.43	+ 0 58.4	2.042	2.850	14.7	22.0
6 30	20 29.54	-33 41.9	2.293	3.233	8.2	20.3	6 30	20 26.69	+ 1 10.2	1.981	2.865	12.1	21.9
7 10	20 20.96	-33 53.7	2.242	3.224	5.6	20.1	7 10	20 19.29	+ 1 2.8	1.941	2.880	9.4	21.8
7 20	20 11.19	-33 55.6	2.218	3.215	4.3	20.0	7 20	20 10.88	+ 0 35.8	1.926	2.895	7.4	21.7
7 30	20 1.16	-33 44.6	2.222	3.205	5.4	20.1	7 30	20 2.27	- 0 8.9	1.936	2.909	7.0	21.7
8 9	19 51.86	-33 20.2	2.252	3.196	7.9	20.2	8 9	19 54.34	- 1 7.6	1.973	2.923	8.4	21.8
8 19	19 44.15	-32 43.6	2.309	3.186	10.7	20.4	8 19	19 47.82	- 2 15.2	2.035	2.936	10.8	22.0
8 29	19 38.64	-31 57.4	2.387	3.176	13.1	20.6	8 29	19 43.28	- 3 26.6	2.119	2.949	13.2	22.1
427300	2014 <i>WT</i> ₂₅₉		7 22.6 204°15'	1°8'/23.4	17		382987	2005 <i>EW</i> ₁₀		7 22.6 109°94'	2°4'/21.4	17	
6 20	20 35.09	-14 6.7	1.649	2.522	14.7	22.1	6 20	20 36.33	-26 41.3	2.138	3.016	11.6	21.6
6 30	20 29.18	-14 22.8	1.575	2.519	10.9	21.9	6 30	20 29.51	-27 3.0	2.085	3.033	8.4	21.4
7 10	20 20.97	-14 50.1	1.524	2.515	6.7	21.6	7 10	20 20.88	-27 23.1	2.057	3.050	5.0	21.2
7 20	20 11.23	-15 26.0	1.498	2.511	2.5	21.3	7 20	20 11.20	-27 37.9	2.056	3.066	2.5	21.1
7 30	20 1.02	-16 6.4	1.499	2.506	3.7	21.4	7 30	20 1.43	-27 44.4	2.083	3.082	4.1	21.2
8 9	19 51.58	-16 47.1	1.526	2.501	8.1	21.7	8 9	19 52.54	-27 41.6	2.138	3.098	7.2	21.4
8 19	19 43.95	-17 24.7	1.577	2.496	12.3	21.9	8 19	19 45.30	-27 29.6	2.218	3.113	10.3	21.7
8 29	19 38.91	-17 56.8	1.650	2.490	15.9	22.1	8 29	19 40.28	-27 10.0	2.320	3.128	12.9	21.9
470636	2008 <i>SM</i> ₇₄		7 22.6 290°44'	3°6'/23.9	18		43438	2					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
324918	2007 <i>VW</i> ₃₀₈		7 22.6 219°47'	0°6'/22.9	17		304410	2006 <i>TA</i> ₄₇		7 22.6 284°05'	0°8'/23.0	18	
6 20	20 34.64	-16 31.5	1.578	2.459	14.7	21.1	6 20	20 30.98	-16 47.3	2.044	2.920	12.1	21.3
6 30	20 29.00	-17 2.3	1.506	2.455	10.9	20.8	6 30	20 25.87	-17 0.4	1.967	2.913	8.9	21.1
7 10	20 20.96	-17 43.4	1.456	2.450	6.4	20.6	7 10	20 18.96	-17 20.5	1.914	2.907	5.3	20.9
7 20	20 11.28	-18 30.8	1.430	2.445	1.6	20.2	7 20	20 10.87	-17 45.0	1.886	2.901	1.5	20.6
7 30	20 1.11	-19 19.5	1.432	2.440	3.6	20.4	7 30	20 2.43	-18 11.3	1.886	2.894	2.9	20.7
8 9	19 51.72	-20 4.6	1.459	2.434	8.4	20.6	8 9	19 54.58	-18 36.3	1.913	2.888	6.8	20.9
8 19	19 44.22	-20 42.9	1.510	2.428	12.7	20.9	8 19	19 48.14	-18 57.9	1.965	2.881	10.4	21.1
8 29	19 39.43	-21 12.5	1.581	2.422	16.4	21.1	8 29	19 43.75	-19 14.8	2.040	2.875	13.5	21.3
504335	2007 <i>TH</i> ₁₄₅		7 22.6 347°60'	3°3'/21.6	17		100422	1996 <i>GP</i> ₇		7 22.6 1°30'	3°2'/21.0	18	
6 20	20 25.12	-24 18.0	0.813	1.749	19.1	19.6	6 20	20 33.23	-26 39.0	1.758	2.649	13.0	19.3
6 30	20 23.55	-24 45.6	0.757	1.734	14.0	19.3	6 30	20 27.82	-27 21.6	1.695	2.649	9.5	19.1
7 10	20 18.46	-25 18.0	0.717	1.720	8.4	18.9	7 10	20 20.20	-28 4.2	1.654	2.649	5.8	18.9
7 20	20 10.82	-25 47.8	0.695	1.709	3.5	18.6	7 20	20 11.14	-28 41.5	1.639	2.649	3.3	18.7
7 30	20 2.44	-26 6.9	0.693	1.700	6.6	18.8	7 30	20 1.73	-29 8.8	1.651	2.649	5.1	18.8
8 9	19 55.40	-26 10.2	0.709	1.694	12.6	19.0	8 9	19 53.18	-29 23.1	1.688	2.649	8.7	19.0
8 19	19 51.37	-25 56.6	0.742	1.689	18.3	19.3	8 19	19 46.46	-29 24.3	1.749	2.650	12.3	19.3
8 29	19 51.41	-25 27.5	0.790	1.688	23.1	19.6	8 29	19 42.29	-29 13.6	1.830	2.651	15.4	19.5
436215	2009 <i>XB</i> ₂₃		7 22.6 273°97'	0°6'/22.2	18		199349	2006 <i>BB</i> ₁₆₃		7 22.6 345°93'	3°7'/21.9	18	
6 20	20 31.87	-17 17.5	1.712	2.596	13.7	20.9	6 20	20 36.23	-29 14.1	1.257	2.161	16.2	18.5
6 30	20 26.93	-18 30.9	1.637	2.588	10.0	20.7	6 30	20 30.69	-28 59.7	1.192	2.151	12.0	18.3
7 10	20 19.77	-19 56.1	1.584	2.581	5.7	20.4	7 10	20 22.11	-28 38.8	1.146	2.142	7.5	18.0
7 20	20 11.05	-21 27.3	1.558	2.573	1.2	20.1	7 20	20 11.56	-28 6.6	1.124	2.135	3.8	17.8
7 30	20 1.77	-22 57.4	1.559	2.566	3.7	20.3	7 30	20 0.62	-27 20.6	1.125	2.128	5.8	17.9
8 9	19 53.11	-24 19.8	1.586	2.558	8.3	20.5	8 9	19 50.97	-26 21.6	1.150	2.123	10.5	18.1
8 19	19 46.11	-25 29.8	1.639	2.550	12.3	20.7	8 19	19 43.94	-25 13.1	1.197	2.118	15.1	18.4
8 29	19 41.60	-26 25.3	1.712	2.543	15.8	21.0	8 29	19 40.35	-23 59.4	1.262	2.115	19.0	18.6
157518	2005 <i>SJ</i> ₁₄₈		7 22.6 149°71'	2°7'/21.2	18		164966	2000 <i>AM</i> ₄₄		7 22.6 12°67'	0°5'/22.4	17	
6 20	20 36.42	-26 1.5	2.092	2.970	11.8	21.3	6 20	20 33.81	-21 7.8	1.746	2.632	13.3	20.1
6 30	20 29.75	-26 44.6	2.031	2.980	8.6	21.1	6 30	20 28.11	-21 11.5	1.680	2.632	9.7	19.9
7 10	20 21.13	-27 27.5	1.996	2.988	5.1	20.9	7 10	20 20.30	-21 18.6	1.637	2.633	5.6	19.6
7 20	20 11.29	-28 5.5	1.987	2.997	2.7	20.8	7 20	20 11.15	-21 25.9	1.619	2.634	1.2	19.3
7 30	20 1.21	-28 34.5	2.007	3.004	4.4	20.9	7 30	20 1.72	-21 30.6	1.628	2.635	3.4	19.5
8 9	19 51.93	-28 52.3	2.054	3.011	7.7	21.1	8 9	19 53.14	-21 30.8	1.663	2.636	7.7	19.8
8 19	19 44.30	-28 58.5	2.126	3.018	10.8	21.3	8 19	19 46.34	-21 25.5	1.722	2.638	11.6	20.0
8 29	19 38.95	-28 54.3	2.220	3.023	13.6	21.5	8 29	19 42.00	-21 15.0	1.803	2.640	14.9	20.2
134958	2001 <i>DX</i> ₂₇		7 22.6 265°98'	1°4'/23.3	18		43891	1995 <i>SQ</i> ₁		7 22.6 239°83'	4°0'/21.6	18	
6 20	20 33.76	-14 24.4	1.601	2.478	14.8	20.1	6 20	20 45.86	-31 41.7	1.882	2.751	13.3	18.4
6 30	20 28.50	-14 54.2	1.514	2.460	11.1	19.8	6 30	20 37.00	-31 36.5	1.796	2.736	10.0	18.2
7 10	20 20.79	-15 37.1	1.448	2.441	6.7	19.5	7 10	20 25.50	-31 23.2	1.734	2.720	6.5	18.0
7 20	20 11.29	-16 30.0	1.408	2.421	2.2	19.2	7 20	20 12.27	-30 57.1	1.699	2.704	4.0	17.8
7 30	20 1.07	-17 28.1	1.393	2.402	3.7	19.3	7 30	19 58.63	-30 15.3	1.693	2.687	5.5	17.8
8 9	19 51.42	-18 25.8	1.405	2.381	8.5	19.5	8 9	19 46.02	-29 18.3	1.715	2.670	9.1	18.0
8 19	19 43.53	-19 18.6	1.440	2.361	13.1	19.7	8 19	19 35.61	-28 9.5	1.763	2.652	12.8	18.2
8 29	19 38.33	-20 3.4	1.497	2.340	17.1	19.9	8 29	19 28.22	-26 53.6	1.833	2.633	16.1	18.4
440888	2006 <i>UA</i> ₇₀		7 22.6 323°14'	0°5'/22.4	16		62753	2000 <i>UM</i> ₇		7 22.6 149°24'	4°3'/25.3	18	
6 20	20 30.93	-20 23.3	1.685	2.576	13.5	21.0	6 20	20 29.82	-5 39.8	2.407	3.241	11.9	18.8
6 30	20 26.25	-20 36.7	1.606	2.561	9.9	20.7	6 30	20 24.70	-5 28.2	2.334	3.245	9.4	18.6
7 10	20 19.36	-20 55.4	1.550	2.547	5.7	20.4	7 10	20 18.15	-5 28.8	2.284	3.248	6.8	18.5
7 20	20 10.96	-21 15.9	1.518	2.533	1.2	20.1	7 20	20 10.70	-5 41.4	2.260	3.251	4.7	18.3
7 30	20 2.08	-21 34.7	1.512	2.520	3.6	20.2	7 30	20 3.02	-6 4.6	2.263	3.255	4.6	18.3
8 9	19 53.89	-21 48.7	1.531	2.507	8.1	20.5	8 9	19 55.85	-6 36.2	2.294	3.257	6.6	18.5
8 19	19 47.42	-21 56.2	1.574	2.494	12.2	20.7	8 19	19 49.82	-7 13.0	2.351	3.260	9.2	18.6
8 29	19 43.44	-21 56.7	1.638	2.483	15.8	20.9	8 29	19 45.47	-7 52.1	2.431	3.263	11.7	18.8
394002	2005 <i>UT</i> ₅₂₂		7 22.6 62°29'	0°4'/22.4	18		406744	2008 <i>HW</i> ₆₀		7 22.6 43°67'	8°9'/28.2	16	
6 20	20 30.84	-19 27.3	2.085	2.965	11.7	21.8	6 20	20 29.19	+ 4 51.7	1.962	2.757	15.7	20.3
6 30	20 25.68	-19 55.0	2.020	2.969	8.5	21.6	6 30	20 24.44	+ 5 36.3	1.906	2.771	13.4	20.2
7 10	20 18.79	-20 27.7	1.978	2.974	4.9	21.4	7 10	20 18.06	+ 5 59.3	1.869	2.785	11.1	20.1
7 20	20 10.81	-21 2.2	1.963	2.979	1.0	21.1	7 20	20 10.68	+ 5 59.0	1.855	2.800	9.4	20.0
7 30	20 2.57	-21 35.1	1.976	2.983	3.0	21.3	7 30	20 3.11	+ 5 35.8	1.865	2.815	9.0	20.0
8 9	19 55.00	-22 3.3	2.016	2.988	6.7	21.5	8 9	19 56.21	+ 4 52.6	1.899	2.830	9.9	20.1
8 19	19 48.84	-22 25.2	2.081	2.993	10.1	21.7	8 19	19 50.69	+ 3 54.5	1.956	2.846	11.7	20.2
8 29	19 44.71	-22 39.9	2.168	2.998	13.0	21.9	8 29	19 47.12	+ 2 47.1	2.035	2.862	13.8	20.4
339300	2004 <i>XK</i> ₇₀		7 22.6 285°15'	5°2'/19.8	18		461854	2006 <i>GA</i> ₁₉		7 22.6 350°89'	5°4'/20.5	17	
6 20	20 35.03	-30 41.1	1.744	2.634	13.2	20.2	6 20	20 30.75	-27 4.8	0.999	1.921	17.8	20.0
6 30	20 29.50	-31 43.9	1.663	2.613	10.0	19.9	6 30	20 27.31	-28 11.3	0.945	1.914	13.2	19.8
7 10	20 21.39	-32 45.4	1.606	2.593	6.8	19.7	7 10	20 20.48	-29 20.1	0.910	1.908	8.3	19.5
7 20	20 11.43	-33 38.4	1.573	2.572	5.2	19.6	7 20	20 11.29	-30 21.0	0.895	1.903	5.4	19.3
7 30	20 0.77	-34 16.3	1.566	2.552	7.0	19.6	7 30	20 1.45	-31 4.3	0.901	1.900	7.9	19.4
8 9	19 50.80	-34 35.2	1.585	2.531	10.4	19.8	8 9	19 52.94	-31 24.7	0.928	1.898	12.8	19.7
8 19	19 42.76	-34 34.9	1.626	2.510	14.0	20.0	8 19	19 47.31	-31 21.9	0.974	1.897	17.6	20.0
8 29	19 37.58	-34 17.7	1.686	2.490	17.2	20.1	8 29	19 45.52	-30 59.2	1.036	1.897	21.7	20.2
342397	2008 <i>UB</i> ₅₁		7 22.6 276°72'	1°5'/23.3	18		23162	Alex					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
78876	2003 <i>RE</i> ₇		7 22.6 319°63	7°6/19.2	18		297110	2010 <i>PM</i> ₄₈		7 22.6 320°21	4°5/19.9	18	
6 20	20 35.57	-36 7.7	1.538	2.430	14.5	18.4	6 20	20 31.31	-29 44.5	1.925	2.816	12.0	20.4
6 30	20 30.20	-37 5.6	1.469	2.414	11.4	18.2	6 30	20 26.49	-30 46.3	1.852	2.803	9.0	20.2
7 10	20 21.91	-37 55.7	1.421	2.398	8.7	18.0	7 10	20 19.52	-31 47.1	1.802	2.791	6.0	20.0
7 20	20 11.58	-38 29.5	1.396	2.383	7.6	17.9	7 20	20 11.07	-32 40.9	1.778	2.779	4.5	19.9
7 30	20 0.66	-38 40.3	1.395	2.369	9.1	17.9	7 30	20 2.15	-33 22.1	1.780	2.768	6.1	19.9
8 9	19 50.75	-38 26.0	1.418	2.354	12.2	18.0	8 9	19 53.88	-33 47.6	1.808	2.757	9.2	20.1
8 19	19 43.22	-37 48.7	1.461	2.341	15.6	18.2	8 19	19 47.26	-33 56.5	1.859	2.746	12.4	20.3
8 29	19 39.00	-36 53.1	1.523	2.328	18.6	18.4	8 29	19 43.08	-33 50.2	1.931	2.735	15.3	20.5
512860	2016 <i>VO</i> ₁₆		7 22.6 342°91	0°7/22.9	17		17617	Takimotoi _{kuo}		7 22.7 296°56	6°2/18.7	18	
6 20	20 31.20	-17 36.1	1.775	2.658	13.3	21.0	6 20	20 33.84	-35 12.6	2.023	2.905	12.0	17.1
6 30	20 26.25	-17 42.4	1.704	2.654	9.7	20.8	6 30	20 28.40	-36 21.0	1.949	2.889	9.3	16.9
7 10	20 19.27	-17 55.4	1.655	2.650	5.7	20.6	7 10	20 20.66	-37 24.2	1.899	2.874	7.1	16.7
7 20	20 10.99	-18 12.8	1.632	2.647	1.5	20.3	7 20	20 11.32	-38 15.6	1.874	2.858	6.2	16.6
7 30	20 2.36	-18 31.4	1.635	2.644	3.2	20.4	7 30	20 1.45	-38 49.5	1.875	2.843	7.6	16.7
8 9	19 54.45	-18 48.5	1.665	2.641	7.4	20.7	8 9	19 52.27	-39 3.3	1.902	2.828	10.2	16.8
8 19	19 48.17	-19 2.1	1.718	2.639	11.3	20.9	8 19	19 44.83	-38 57.3	1.951	2.813	13.0	17.0
8 29	19 44.21	-19 10.9	1.793	2.637	14.7	21.1	8 29	19 39.96	-38 34.2	2.020	2.798	15.6	17.1
429877	2012 <i>SL</i> ₄₆		7 22.6 30°08	8°6/27.6	16		48404	1981 <i>EQ</i> ₄₁		7 22.7 269°22	1°7/21.8	18	
6 20	20 29.17	+ 1 11.7	1.450	2.286	18.3	20.9	6 20	20 33.66	-23 56.3	1.985	2.868	12.1	18.9
6 30	20 24.94	+ 1 29.3	1.393	2.294	15.1	20.8	6 30	20 27.98	-24 16.2	1.907	2.858	8.8	18.7
7 10	20 18.57	+ 1 20.7	1.355	2.303	11.9	20.6	7 10	20 20.27	-24 37.4	1.853	2.848	5.1	18.4
7 20	20 10.84	+ 0 44.9	1.337	2.312	9.3	20.5	7 20	20 11.22	-24 56.5	1.825	2.838	1.9	18.2
7 30	20 2.81	+ 0 15.9	1.343	2.322	8.7	20.5	7 30	20 1.79	-25 9.9	1.824	2.828	3.8	18.3
8 9	19 55.63	- 1 35.6	1.372	2.333	10.4	20.6	8 9	19 53.02	-25 15.4	1.850	2.818	7.6	18.5
8 19	19 50.23	- 3 6.5	1.424	2.344	13.2	20.8	8 19	19 45.84	-25 12.4	1.901	2.808	11.2	18.7
8 29	19 47.32	- 4 40.5	1.497	2.356	16.2	21.0	8 29	19 40.96	-25 1.3	1.974	2.797	14.3	18.9
94218	2001 <i>BK</i> ₄₅		7 22.6 140°14	3°0/21.4	18		254252	2004 <i>RH</i> ₁₆₂		7 22.7 349°12	2°7/23.7	18	
6 20	20 38.52	-31 33.6	2.651	3.517	10.0	19.1	6 20	20 31.66	-14 4.7	1.863	2.735	13.3	19.7
6 30	20 30.84	-31 29.3	2.586	3.524	7.4	18.9	6 30	20 26.44	-13 32.0	1.790	2.731	10.0	19.5
7 10	20 21.59	-31 19.4	2.546	3.531	4.8	18.8	7 10	20 19.34	-13 6.5	1.739	2.727	6.4	19.3
7 20	20 11.44	-31 1.2	2.534	3.538	3.1	18.7	7 20	20 11.02	-12 48.1	1.714	2.724	3.1	19.1
7 30	20 1.23	-30 33.4	2.552	3.544	4.1	18.8	7 30	20 2.40	-12 35.9	1.716	2.721	3.8	19.1
8 9	19 51.83	-29 56.0	2.599	3.550	6.6	18.9	8 9	19 54.49	-12 28.6	1.744	2.718	7.4	19.3
8 19	19 43.92	-29 10.7	2.674	3.556	9.2	19.1	8 19	19 48.12	-12 24.7	1.796	2.716	10.9	19.5
8 29	19 38.01	-28 19.6	2.772	3.561	11.5	19.3	8 29	19 43.93	-12 22.5	1.871	2.715	14.1	19.7
309126	2006 <i>XF</i> ₇		7 22.6 233°76	1°6/21.6	18		494219	2016 <i>LN</i> ₈		7 22.7 195°02	4°5/15.5	18	
6 20	20 32.00	-23 51.7	2.507	3.383	10.1	21.9	6 20	20 28.40	-45 37.7	5.179	6.012	6.0	20.6
6 30	20 26.44	-24 25.6	2.425	3.373	7.4	21.7	6 30	20 23.40	-46 40.7	5.124	6.012	5.1	20.6
7 10	20 19.25	-25 1.3	2.368	3.362	4.3	21.5	7 10	20 17.34	-47 37.4	5.095	6.011	4.6	20.5
7 20	20 10.98	-25 35.3	2.338	3.351	1.7	21.3	7 20	20 10.58	-48 25.4	5.093	6.010	4.5	20.5
7 30	20 2.37	-26 4.5	2.338	3.340	3.4	21.4	7 30	20 3.56	-49 2.8	5.118	6.009	5.0	20.6
8 9	19 54.24	-26 26.4	2.365	3.328	6.5	21.6	8 9	19 56.78	-49 28.5	5.170	6.008	5.9	20.6
8 19	19 47.33	-26 39.9	2.419	3.316	9.5	21.7	8 19	19 50.69	-49 42.8	5.245	6.007	6.8	20.7
8 29	19 42.24	-26 45.0	2.495	3.303	12.1	21.9	8 29	19 45.72	-49 46.4	5.342	6.006	7.7	20.8
512582	2016 <i>SJ</i> ₄₀		7 22.6 333°53	1°4/21.9	18		347872	2002 <i>RZ</i> ₂₇₀		7 22.7 277°80	1°3/22.1	18	
6 20	20 32.22	-22 7.9	1.727	2.617	13.2	21.4	6 20	20 33.83	-22 57.7	1.891	2.775	12.5	21.1
6 30	20 27.11	-22 38.4	1.658	2.613	9.6	21.2	6 30	20 28.15	-23 12.0	1.815	2.767	9.1	20.9
7 10	20 19.82	-23 13.0	1.612	2.609	5.5	21.0	7 10	20 20.39	-23 28.3	1.762	2.759	5.3	20.7
7 20	20 11.11	-23 47.3	1.591	2.606	1.7	20.7	7 20	20 11.25	-23 43.3	1.736	2.750	1.6	20.4
7 30	20 2.02	-24 16.9	1.597	2.603	3.9	20.9	7 30	20 1.74	-23 53.5	1.736	2.742	3.7	20.5
8 9	19 53.70	-24 38.5	1.629	2.600	8.1	21.1	8 9	19 52.94	-23 56.8	1.763	2.733	7.7	20.8
8 19	19 47.14	-24 50.7	1.684	2.597	12.0	21.3	8 19	19 45.79	-23 52.5	1.815	2.725	11.4	21.0
8 29	19 43.05	-24 53.3	1.760	2.595	15.3	21.5	8 29	19 41.02	-23 41.1	1.888	2.716	14.7	21.2
91550	1999 <i>RW</i> ₂₁₀		7 22.6 256°18	1°3/22.0	18		420219	2011 <i>HK</i> ₁₂		7 22.7 49°70	5°7/19.7	17	
6 20	20 32.99	-23 55.2	2.374	3.251	10.6	19.4	6 20	20 34.70	-30 15.5	1.494	2.391	14.5	20.0
6 30	20 27.16	-24 1.9	2.294	3.242	7.7	19.2	6 30	20 29.20	-31 36.8	1.450	2.404	10.8	19.8
7 10	20 19.65	-24 9.0	2.239	3.233	4.5	19.0	7 10	20 21.12	-32 54.6	1.429	2.417	7.3	19.6
7 20	20 11.06	-24 13.9	2.210	3.224	1.5	18.8	7 20	20 11.41	-34 0.6	1.432	2.431	5.7	19.6
7 30	20 2.19	-24 14.4	2.211	3.215	3.2	18.9	7 30	20 1.41	-34 47.8	1.460	2.445	7.4	19.7
8 9	19 53.91	-24 9.0	2.239	3.206	6.5	19.1	8 9	19 52.55	-35 13.4	1.512	2.459	10.8	19.9
8 19	19 46.95	-23 57.5	2.293	3.197	9.7	19.3	8 19	19 45.96	-35 18.1	1.586	2.474	14.1	20.2
8 29	19 41.92	-23 40.2	2.371	3.188	12.4	19.4	8 29	19 42.36	-35 5.0	1.679	2.488	17.0	20.4
313277	2002 <i>AN</i> ₂₄		7 22.6 271°34	0°6/22.1	18		375727	2009 <i>QD</i> ₄₇		7 22.7 344°70	6°8/20.1	17	
6 20	20 31.20	-17 10.0	2.217	3.089	11.4	20.6	6 20	20 33.75	-32 3.0	1.172	2.082	16.7	19.9
6 30	20 26.13	-18 31.2	2.128	3.074	8.3	20.4	6 30	20 29.28	-32 57.0	1.114	2.074	12.7	19.7
7 10	20 19.23	-20 2.7	2.064	3.058	4.8	20.1	7 10	20 21.53	-33 45.8	1.075	2.066	8.8	19.4
7 20	20 11.01	-21 39.9	2.028	3.043	1.1	19.8	7 20	20 11.54	-34 19.9	1.058	2.059	6.8	19.3
7 30	20 2.25	-23 16.8	2.021	3.027	3.2	20.0	7 30	20 0.99	-34 32.1	1.063	2.053	8.8	19.4
8 9	19 53.86	-24 47.4	2.043	3.011	7.0	20.2	8 9	19 51.73	-34 19.5	1.090	2.048	12.7	19.6
8 19	19 46.69	-26 7.6	2.093	2.995	10.5	20.4	8 19	19 45.26	-33 44.6	1.137	2.045	16.9	19.8
8 29	19 41.49	-27 15.0	2.165	2.979	13.5	20.5	8 29	19 42.48	-32 52.2	1.201	2.042	20.6	20.1
245586	2005 <i>UV</i> _{384</}												

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
475803	2006 XV ₆₉		7 22.7 147°36	0°6/22.9	18		256685	2007 YX ₅₁		7 22.7 5°46	2°9/21.3	18	
6 20	20 32.42	-17 59.8	2.663	3.527	10.0	21.5	6 20	20 30.90	-21 26.6	1.099	2.012	17.3	19.0
6 30	20 26.46	-17 57.3	2.593	3.534	7.3	21.3	6 30	20 27.09	-22 44.5	1.046	2.012	12.5	18.8
7 10	20 19.13	-17 58.4	2.550	3.541	4.3	21.2	7 10	20 20.25	-24 12.4	1.012	2.012	7.3	18.5
7 20	20 10.97	-18 1.5	2.534	3.548	1.1	20.9	7 20	20 11.34	-25 41.0	1.000	2.014	3.0	18.2
7 30	20 2.65	-18 5.1	2.547	3.554	2.4	21.0	7 30	20 1.86	-27 0.1	1.011	2.016	5.9	18.4
8 9	19 54.89	-18 7.8	2.589	3.561	5.5	21.3	8 9	19 53.54	-28 2.0	1.045	2.019	11.1	18.7
8 19	19 48.29	-18 8.7	2.658	3.566	8.3	21.5	8 19	19 47.77	-28 43.5	1.099	2.023	16.0	19.0
8 29	19 43.34	-18 7.2	2.751	3.572	10.8	21.6	8 29	19 45.46	-29 4.7	1.171	2.028	20.0	19.3
360090	2013 BZ ₅₄		7 22.7 307°10	1°3/23.4	18		240157	2002 NY ₇₀		7 22.7 279°71	2°7/24.0	18	
6 20	20 29.82	-14 32.5	1.972	2.846	12.6	20.6	6 20	20 31.27	-11 55.5	1.878	2.745	13.4	20.8
6 30	20 25.14	-14 58.4	1.894	2.838	9.3	20.4	6 30	20 26.30	-11 59.7	1.796	2.734	10.2	20.6
7 10	20 18.64	-15 34.2	1.839	2.830	5.6	20.1	7 10	20 19.37	-12 15.4	1.737	2.723	6.5	20.4
7 20	20 10.91	-16 17.2	1.810	2.823	1.9	19.9	7 20	20 11.12	-12 40.9	1.703	2.712	3.2	20.1
7 30	20 2.79	-17 3.9	1.808	2.816	3.0	19.9	7 30	20 2.43	-13 13.8	1.695	2.701	3.7	20.2
8 9	19 55.24	-17 50.3	1.832	2.809	6.9	20.2	8 9	19 54.31	-13 50.5	1.714	2.690	7.4	20.4
8 19	19 49.08	-18 33.2	1.882	2.802	10.6	20.4	8 19	19 47.65	-14 27.7	1.758	2.679	11.1	20.6
8 29	19 44.99	-19 10.2	1.955	2.795	13.8	20.6	8 29	19 43.18	-15 2.6	1.824	2.668	14.4	20.7
80807	Jimloudon		7 22.7 41°62	0°6/22.4	17		3779	Kieffer		7 22.7 162°90	6°2/18.8	18	
6 20	20 32.60	-18 17.5	1.227	2.128	16.7	18.1	6 20	20 37.11	-34 59.1	2.032	2.910	12.1	16.1
6 30	20 27.79	-19 8.6	1.182	2.142	12.1	17.8	6 30	20 30.65	-36 16.1	1.975	2.913	9.4	15.9
7 10	20 20.36	-20 9.9	1.157	2.156	6.9	17.6	7 10	20 21.90	-37 26.9	1.943	2.917	7.0	15.8
7 20	20 11.27	-21 14.8	1.156	2.171	1.5	17.3	7 20	20 11.65	-38 24.7	1.936	2.920	6.2	15.7
7 30	20 1.93	-22 16.0	1.178	2.187	4.2	17.5	7 30	20 1.01	-39 3.9	1.956	2.922	7.5	15.8
8 9	19 53.79	-23 7.6	1.225	2.203	9.4	17.9	8 9	19 51.21	-39 22.4	2.002	2.924	10.0	16.0
8 19	19 47.97	-23 46.4	1.294	2.219	13.9	18.2	8 19	19 43.28	-39 21.0	2.071	2.926	12.6	16.2
8 29	19 45.20	-24 11.7	1.382	2.236	17.6	18.5	8 29	19 37.95	-39 3.0	2.160	2.928	15.0	16.3
318598	2005 JB ₄₀		7 22.7 354°49	2°9/21.5	17		128693	2004 RZ ₉₂		7 22.7 249°21	1°0/22.2	18	R
6 20	20 29.04	-23 24.6	1.020	1.941	17.6	20.0	6 20	20 33.67	-23 27.1	2.747	3.616	9.6	20.8
6 30	20 25.89	-24 6.6	0.965	1.934	12.8	19.7	6 30	20 27.53	-23 29.2	2.655	3.599	7.0	20.6
7 10	20 19.61	-24 54.5	0.928	1.929	7.5	19.4	7 10	20 19.87	-23 31.7	2.588	3.582	4.0	20.4
7 20	20 11.17	-25 40.8	0.911	1.925	3.1	19.1	7 20	20 11.21	-23 32.2	2.550	3.564	1.2	20.2
7 30	20 2.17	-26 17.8	0.917	1.923	5.9	19.3	7 30	20 2.23	-23 29.1	2.541	3.546	2.7	20.3
8 9	19 54.40	-26 40.0	0.943	1.922	11.3	19.6	8 9	19 53.72	-23 21.0	2.561	3.528	5.9	20.4
8 19	19 49.28	-26 46.0	0.990	1.923	16.3	19.9	8 19	19 46.35	-23 7.8	2.609	3.509	8.8	20.6
8 29	19 47.73	-26 36.6	1.053	1.925	20.6	20.2	8 29	19 40.68	-22 49.7	2.680	3.489	11.3	20.8
336305	2008 TR ₅		7 22.7 285°29	2°4/23.8	18		307391	2002 TY ₂₅		7 22.7 300°48	6°2/20.0	18	
6 20	20 32.51	-12 59.0	1.776	2.647	13.9	21.4	6 20	20 36.45	-31 43.6	1.408	2.305	15.2	19.7
6 30	20 27.44	-13 3.6	1.681	2.622	10.5	21.1	6 30	20 31.02	-32 40.1	1.336	2.290	11.6	19.4
7 10	20 20.17	-13 19.4	1.608	2.597	6.7	20.8	7 10	20 22.52	-33 33.0	1.286	2.274	8.0	19.2
7 20	20 11.29	-13 45.2	1.560	2.571	3.0	20.5	7 20	20 11.84	-34 13.9	1.260	2.259	6.2	19.1
7 30	20 1.74	-14 18.1	1.538	2.545	3.8	20.5	7 30	20 0.45	-34 35.3	1.257	2.244	8.1	19.1
8 9	19 52.66	-14 54.4	1.543	2.519	8.0	20.7	8 9	19 50.07	-34 33.9	1.278	2.230	11.9	19.3
8 19	19 45.10	-15 30.9	1.572	2.493	12.2	20.9	8 19	19 42.14	-34 11.0	1.320	2.216	15.8	19.5
8 29	19 39.93	-16 4.5	1.622	2.467	15.9	21.1	8 29	19 37.65	-33 30.5	1.380	2.202	19.4	19.7
467196	2016 ED ₁₃₀		7 22.7 30°74	3°4/21.6	17		65788	1995 UJ ₂₀		7 22.7 235°65	0°7/22.9	18	
6 20	20 36.01	-25 40.4	1.131	2.039	17.3	20.2	6 20	20 33.28	-17 14.0	1.947	2.822	12.7	20.8
6 30	20 30.61	-26 9.1	1.083	2.046	12.6	20.0	6 30	20 27.69	-17 27.2	1.869	2.815	9.3	20.6
7 10	20 22.11	-26 38.4	1.054	2.053	7.5	19.7	7 10	20 20.14	-17 47.3	1.815	2.808	5.5	20.4
7 20	20 11.67	-27 1.2	1.048	2.060	3.5	19.5	7 20	20 11.29	-18 11.6	1.786	2.801	1.4	20.1
7 30	20 0.94	-27 11.9	1.065	2.068	5.9	19.7	7 30	20 2.04	-18 37.0	1.785	2.793	3.1	20.2
8 9	19 51.66	-27 8.0	1.104	2.077	10.8	20.0	8 9	19 53.42	-19 0.6	1.811	2.786	7.1	20.4
8 19	19 45.12	-26 50.5	1.165	2.087	15.4	20.3	8 19	19 46.33	-19 20.2	1.862	2.778	10.9	20.7
8 29	19 42.10	-26 21.9	1.244	2.097	19.3	20.6	8 29	19 41.45	-19 34.7	1.936	2.769	14.1	20.8
263984	2009 KP ₂₂		7 22.7 13°67	5°5/24.9	17		47579	2000 AW ₁₇₄		7 22.7 179°78	2°9/24.2	18	
6 20	20 26.99	- 9 3.9	0.926	1.831	20.5	20.0	6 20	20 33.43	-10 47.5	1.669	2.535	14.9	18.3
6 30	20 24.18	- 8 48.8	0.881	1.836	15.8	19.7	6 30	20 27.98	-11 4.7	1.599	2.536	11.3	18.0
7 10	20 18.48	- 8 57.3	0.853	1.842	10.7	19.5	7 10	20 20.37	-11 36.1	1.551	2.536	7.3	17.8
7 20	20 10.91	- 9 28.3	0.844	1.851	6.3	19.3	7 20	20 11.34	-12 19.6	1.528	2.536	3.6	17.6
7 30	20 2.99	-10 17.4	0.855	1.861	6.4	19.3	7 30	20 1.91	-13 11.3	1.531	2.536	4.0	17.6
8 9	19 56.34	-11 16.8	0.887	1.873	10.6	19.6	8 9	19 53.21	-14 6.4	1.560	2.536	7.9	17.8
8 19	19 52.20	-12 18.7	0.939	1.886	15.4	19.9	8 19	19 46.23	-15 0.3	1.613	2.535	11.9	18.1
8 29	19 51.35	-13 16.2	1.008	1.901	19.6	20.2	8 29	19 41.70	-15 49.5	1.689	2.534	15.3	18.3
315207	2007 RP ₁₀		7 22.7 274°62	3°6/21.7	17		162390	2000 CD ₁₃		7 22.7 257°82	1°1/23.2	18	
6 20	20 40.71	-28 12.9	1.365	2.258	15.9	20.3	6 20	20 32.87	-16 20.9	2.034	2.906	12.3	20.2
6 30	20 33.94	-28 18.2	1.294	2.248	11.8	20.0	6 30	20 27.37	-16 27.4	1.949	2.893	9.1	20.0
7 10	20 24.08	-28 19.5	1.244	2.238	7.3	19.8	7 10	20 19.96	-16 40.9	1.887	2.879	5.5	19.7
7 20	20 12.12	-28 11.2	1.217	2.228	3.7	19.5	7 20	20 11.25	-16 59.3	1.851	2.865	1.7	19.4
7 30	19 59.63	-27 49.1	1.216	2.217	5.8	19.6	7 30	20 2.11	-17 20.0	1.843	2.851	3.0	19.5
8 9	19 48.33	-27 12.3	1.239	2.207	10.5	19.8	8 9	19 53.52	-17 40.3	1.862	2.836	7.0	19.7
8 19	19 39.62	-26 23.5	1.285	2.196	15.0	20.1	8 19	19 46.35	-17 58.2	1.906	2.822	10.7	19.9
8 29	19 34.38	-25 26.6	1.350	2.186	19.0	20.3	8 29	19 41.30	-18 12.1	1.973	2.807	13.9	20.1
202583	2006 FA ₄₀		7 22.7 347°95	1°9/23.6	17		443644	2014 ON ₂₁₂		7 22.7 336°54	2°9/24.7	18	
6 20	20 30.37	-13											

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
319208	2005 <i>YY</i> ₂₀₁	7 22.7 254°91		0°2/22.5 18			211267	2002 <i>RP</i> ₆₉	7 22.7 310°11		4°7/25.5 18		
6 20	20 29.68	-18 22.4	2.409	3.283	10.6	20.9	6 20	20 29.23	-5 35.7	1.764	2.616	14.8	20.2
6 30	20 24.81	-19 2.6	2.330	3.277	7.7	20.7	6 30	20 24.93	-5 51.6	1.683	2.606	11.7	20.0
7 10	20 18.38	-19 48.9	2.276	3.271	4.4	20.4	7 10	20 18.67	-6 26.2	1.622	2.595	8.3	19.8
7 20	20 10.91	-20 38.2	2.249	3.264	0.9	20.2	7 20	20 11.04	-7 18.6	1.586	2.584	5.3	19.6
7 30	20 3.12	-21 26.7	2.250	3.258	2.7	20.3	7 30	20 2.93	-8 25.7	1.575	2.574	5.1	19.6
8 9	19 55.79	-22 11.3	2.280	3.251	6.1	20.5	8 9	19 55.38	-9 42.2	1.591	2.564	8.0	19.7
8 19	19 49.63	-22 49.7	2.336	3.245	9.3	20.7	8 19	19 49.29	-11 2.2	1.630	2.555	11.6	19.9
8 29	19 45.22	-23 20.5	2.415	3.238	12.0	20.9	8 29	19 45.41	-12 20.4	1.692	2.545	15.0	20.1
259808	2004 <i>BZ</i> ₉₉	7 22.7 191°91		0°5/22.4 17			478998	2012 <i>XD</i> ₁₃₅	7 22.7 215°82		1°1/21.9 18		
6 20	20 34.40	-18 42.6	1.684	2.567	13.9	21.5	6 20	20 33.05	-21 41.7	2.306	3.182	10.9	22.3
6 30	20 28.77	-19 25.4	1.616	2.567	10.1	21.2	6 30	20 27.35	-22 17.4	2.228	3.175	7.9	22.1
7 10	20 20.87	-20 16.3	1.570	2.566	5.8	21.0	7 10	20 19.90	-22 56.7	2.173	3.168	4.6	21.9
7 20	20 11.47	-21 10.4	1.549	2.564	1.2	20.7	7 20	20 11.28	-23 35.9	2.146	3.161	1.4	21.6
7 30	20 1.63	-22 2.5	1.556	2.563	3.6	20.8	7 30	20 2.31	-24 11.5	2.148	3.153	3.2	21.8
8 9	19 52.56	-22 48.0	1.588	2.561	8.1	21.1	8 9	19 53.87	-24 40.7	2.178	3.144	6.7	22.0
8 19	19 45.28	-23 24.0	1.646	2.559	12.2	21.4	8 19	19 46.75	-25 1.8	2.233	3.136	9.9	22.2
8 29	19 40.58	-23 49.7	1.724	2.557	15.6	21.6	8 29	19 41.58	-25 14.5	2.312	3.126	12.7	22.3
92308	2000 <i>FM</i> ₄₁	7 22.7		8°04 3°0/21.4 18			56333	1999 <i>XU</i> ₁₀₀	7 22.7 226°25		1°6/21.9 18		
6 20	20 26.84	-21 32.9	0.826	1.757	19.4	17.6	6 20	20 35.82	-22 4.1	1.764	2.648	13.3	19.3
6 30	20 24.62	-22 37.9	0.782	1.758	14.1	17.3	6 30	20 29.84	-22 43.1	1.689	2.640	9.7	19.1
7 10	20 19.01	-23 53.4	0.757	1.760	8.1	17.0	7 10	20 21.55	-23 26.6	1.636	2.632	5.6	18.8
7 20	20 11.11	-25 9.4	0.750	1.764	3.1	16.7	7 20	20 11.67	-24 10.0	1.609	2.623	1.8	18.6
7 30	20 2.71	-26 15.0	0.763	1.770	6.4	16.9	7 30	20 1.28	-24 48.0	1.609	2.614	4.1	18.7
8 9	19 55.79	-27 2.2	0.796	1.778	12.2	17.3	8 9	19 51.61	-25 17.0	1.636	2.604	8.3	18.9
8 19	19 51.81	-27 28.1	0.847	1.788	17.5	17.6	8 19	19 43.73	-25 35.3	1.687	2.594	12.3	19.1
8 29	19 51.65	-27 33.5	0.914	1.799	21.9	17.9	8 29	19 38.44	-25 42.9	1.759	2.584	15.7	19.3
399874	2005 <i>VH</i> ₂₈	7 22.7 295°38		4°8/24.9 18			121705	1999 <i>XY</i> ₉₀	7 22.7 280°49		1°1/23.3 18		
6 20	20 30.31	-6 43.5	2.106	2.951	13.0	20.9	6 20	20 31.54	-16 21.0	2.428	3.294	10.8	20.1
6 30	20 25.49	-6 19.0	2.010	2.928	10.4	20.7	6 30	20 26.21	-16 19.2	2.330	3.270	8.0	19.9
7 10	20 18.90	-6 6.8	1.936	2.905	7.5	20.5	7 10	20 19.25	-16 22.7	2.256	3.246	4.8	19.6
7 20	20 11.06	-6 7.4	1.888	2.882	5.2	20.3	7 20	20 11.16	-16 30.2	2.209	3.222	1.6	19.4
7 30	20 2.73	-6 20.2	1.865	2.858	5.2	20.3	7 30	20 2.65	-16 39.9	2.190	3.197	2.7	19.4
8 9	19 54.82	-6 43.3	1.869	2.835	7.7	20.4	8 9	19 54.53	-16 49.9	2.199	3.173	6.2	19.6
8 19	19 48.13	-7 13.9	1.899	2.812	10.8	20.5	8 19	19 47.55	-16 58.7	2.235	3.148	9.5	19.8
8 29	19 43.37	-7 48.5	1.950	2.789	13.8	20.7	8 29	19 42.35	-17 5.1	2.294	3.122	12.4	19.9
136567	1979 <i>OA</i> ₁₁	7 22.7 345°46		4°0/24.5 18			387519	1999 <i>TP</i> ₁₃₁	7 22.7 185°77		16°8/ 1.9 18		
6 20	20 30.28	-9 35.9	1.847	2.709	13.8	19.7	6 20	20 35.02	+17 17.2	1.366	2.106	23.7	21.0
6 30	20 25.51	-9 16.6	1.773	2.705	10.7	19.5	6 30	20 29.63	+18 23.0	1.303	2.107	21.7	20.8
7 10	20 18.89	-9 9.4	1.722	2.701	7.3	19.3	7 10	20 21.60	+18 50.1	1.253	2.107	19.6	20.7
7 20	20 11.05	-9 14.0	1.696	2.698	4.4	19.1	7 20	20 11.70	+18 31.4	1.219	2.106	17.8	20.6
7 30	20 2.88	-9 29.0	1.695	2.695	4.6	19.1	7 30	20 1.20	+17 23.8	1.203	2.105	16.9	20.5
8 9	19 55.34	-9 51.6	1.720	2.693	7.6	19.3	8 9	19 51.53	+15 31.6	1.207	2.103	17.2	20.5
8 19	19 49.29	-10 18.9	1.770	2.691	11.0	19.5	8 19	19 43.95	+13 4.7	1.231	2.100	18.5	20.6
8 29	19 45.37	-10 47.5	1.842	2.690	14.2	19.7	8 29	19 39.37	+10 16.9	1.273	2.097	20.6	20.8
125724	2001 <i>XK</i> ₁₀₈	7 22.7 186°99		1°4/23.4 18			211735	2003 <i>YE</i> ₁₂₁	7 22.7 225°36		3°3/20.6 18		
6 20	20 34.32	-15 13.9	2.035	2.902	12.5	20.7	6 20	20 34.76	-28 54.9	2.494	3.369	10.2	21.7
6 30	20 28.31	-15 19.6	1.961	2.901	9.3	20.5	6 30	20 28.60	-29 40.4	2.413	3.358	7.6	21.5
7 10	20 20.45	-15 32.9	1.911	2.901	5.6	20.3	7 10	20 20.64	-30 24.6	2.358	3.346	4.9	21.3
7 20	20 11.38	-15 51.7	1.887	2.900	2.0	20.0	7 20	20 11.46	-31 3.2	2.329	3.333	3.3	21.2
7 30	20 2.00	-16 13.5	1.891	2.898	3.1	20.1	7 30	20 1.89	-31 32.3	2.330	3.320	4.6	21.2
8 9	19 53.27	-16 35.6	1.922	2.896	6.8	20.3	8 9	19 52.84	-31 49.7	2.358	3.306	7.4	21.4
8 19	19 46.02	-16 55.8	1.979	2.893	10.4	20.6	8 19	19 45.12	-31 54.8	2.412	3.292	10.2	21.6
8 29	19 40.90	-17 12.6	2.059	2.890	13.5	20.8	8 29	19 39.39	-31 48.7	2.489	3.277	12.7	21.7
500091	2012 <i>AD</i> ₁₅	7 22.7 118°24		2°4/22.3 17			227436	2005 <i>WF</i> ₂₀	7 22.7 193°72		0°6/22.4 18		
6 20	20 49.03	-28 23.4	1.577	2.450	15.2	20.6	6 20	20 34.89	-20 38.3	1.707	2.592	13.7	21.0
6 30	20 39.15	-27 48.2	1.519	2.463	11.2	20.4	6 30	20 29.07	-20 55.8	1.640	2.592	9.9	20.8
7 10	20 26.64	-27 6.0	1.484	2.476	6.7	20.1	7 10	20 21.03	-21 17.8	1.595	2.591	5.7	20.5
7 20	20 12.67	-26 13.8	1.476	2.489	2.6	19.9	7 20	20 11.55	-21 40.7	1.575	2.591	1.3	20.2
7 30	19 58.78	-25 11.1	1.497	2.501	4.5	20.1	7 30	20 1.72	-22 0.8	1.583	2.590	3.6	20.4
8 9	19 46.47	-24 0.5	1.546	2.512	8.9	20.3	8 9	19 52.72	-22 15.0	1.616	2.589	8.0	20.7
8 19	19 36.80	-22 46.0	1.620	2.524	13.0	20.6	8 19	19 45.54	-22 22.2	1.674	2.588	11.9	20.9
8 29	19 30.38	-21 31.6	1.717	2.534	16.3	20.9	8 29	19 40.91	-22 22.2	1.752	2.587	15.3	21.1
138030	2000 <i>DP</i> ₄	7 22.7 180°65		5°1/20.5 18			122496	2000 <i>QM</i> ₁₈₄	7 22.7 290°35		2°3/21.6 18		
6 20	20 39.02	-31 36.7	1.701	2.586	13.7	20.1	6 20	20 33.98	-23 15.3	1.653	2.543	13.7	19.8
6 30	20 32.24	-32 21.3	1.640	2.587	10.3	19.9	6 30	20 28.86	-23 59.6	1.563	2.518	10.1	19.5
7 10	20 22.91	-33 1.1	1.601	2.587	7.0	19.7	7 10	20 21.19	-24 49.3	1.495	2.492	6.0	19.2
7 20	20 11.93	-33 29.3	1.587	2.587	5.1	19.6	7 20	20 11.65	-25 39.0	1.453	2.466	2.4	18.9
7 30	20 0.60	-33 41.0	1.600	2.587	6.7	19.7	7 30	20 1.32	-26 22.6	1.437	2.440	4.8	19.0
8 9	19 50.30	-33 34.4	1.638	2.586	10.0	19.9	8 9	19 51.54	-26 55.4	1.446	2.414	9.3	19.2
8 19	19 42.19	-33 11.2	1.699	2.585	13.4	20.1	8 19	19 43.56	-27 15.3	1.478	2.388	13.6	19.4
8 29	19 37.00	-32 34.7	1.780	2.584	16.4	20.3	8 29	19 38.37	-27 22.1	1.531	2.361	17.4	19.6
302362	2002 <i>BE</i> ₃₂	7 22.7 166°48		5°7/18.1 18			387311	2012 <i>VV</i> ₅₇	7 22.7 45°74		0°8/23.1 16		

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
126900	2002 <i>EL</i> ₁₀₈		7 22.7 63°99	0°1/22.7 17			440733	2006 <i>BS</i> ₃₄		7 22.7 315°07	2°1/21.9 18		
6 20	20 33.09	-18 4.4	1.647	2.532	14.1	20.4	6 20	20 35.05	-26 55.6	2.068	2.950	11.7	20.3
6 30	20 27.75	-18 31.8	1.587	2.538	10.2	20.2	6 30	20 28.96	-26 49.4	1.989	2.938	8.6	20.1
7 10	20 20.26	-19 6.9	1.549	2.545	5.9	19.9	7 10	20 20.89	-26 40.6	1.933	2.926	5.2	19.9
7 20	20 11.39	-19 45.6	1.536	2.551	1.3	19.6	7 20	20 11.55	-26 26.4	1.903	2.915	2.3	19.7
7 30	20 2.22	-20 23.7	1.549	2.558	3.4	19.8	7 30	20 1.91	-26 4.6	1.901	2.904	3.9	19.8
8 9	19 53.91	-20 57.2	1.589	2.564	7.8	20.1	8 9	19 52.99	-25 34.6	1.926	2.893	7.4	20.0
8 19	19 47.40	-21 23.7	1.652	2.571	11.8	20.4	8 19	19 45.68	-24 57.4	1.977	2.882	10.9	20.2
8 29	19 43.39	-21 42.1	1.737	2.578	15.2	20.6	8 29	19 40.65	-24 14.6	2.050	2.872	13.9	20.3
5754	1992 <i>FR</i> ₂		7 22.7 334°97	1°4/22.0 18 R			248434	2005 <i>TW</i> ₁₂		7 22.7 244°87	1°5/21.9 18		
6 20	20 30.34	-19 24.1	1.106	2.018	17.3	15.6	6 20	20 34.36	-24 54.4	2.521	3.394	10.2	20.8
6 30	20 26.79	-20 19.5	1.041	2.006	12.7	15.3	6 30	20 28.18	-24 59.9	2.435	3.381	7.4	20.6
7 10	20 20.22	-21 27.8	0.996	1.996	7.3	14.9	7 10	20 20.34	-25 5.0	2.375	3.369	4.4	20.4
7 20	20 11.45	-22 42.0	0.972	1.987	1.9	14.6	7 20	20 11.43	-25 7.0	2.342	3.355	1.6	20.2
7 30	20 1.95	-23 53.0	0.971	1.978	5.1	14.7	7 30	20 2.22	-25 3.9	2.339	3.342	3.2	20.3
8 9	19 53.43	-24 53.0	0.992	1.971	10.8	15.0	8 9	19 53.55	-24 54.3	2.363	3.328	6.4	20.5
8 19	19 47.36	-25 37.3	1.033	1.964	16.0	15.3	8 19	19 46.16	-24 38.3	2.415	3.314	9.4	20.6
8 29	19 44.79	-26 4.5	1.092	1.959	20.4	15.6	8 29	19 40.64	-24 16.4	2.489	3.300	12.1	20.8
446347	2014 <i>HZ</i> ₇		7 22.7 27°27	7°9/28.4 17			109050	2001 <i>QB</i> ₁₅		7 22.7 326°74	4°8/21.1 18		
6 20	20 27.48	+ 2 48.0	1.724	2.542	16.5	20.2	6 20	20 34.69	-30 56.3	1.514	2.410	14.4	18.4
6 30	20 23.49	+ 2 47.4	1.666	2.554	13.8	20.0	6 30	20 29.52	-31 13.9	1.435	2.389	10.9	18.2
7 10	20 17.72	+ 2 22.3	1.628	2.567	10.9	19.9	7 10	20 21.60	-31 26.3	1.377	2.368	7.2	17.9
7 20	20 10.84	+ 1 32.6	1.612	2.581	8.6	19.8	7 20	20 11.75	-31 27.7	1.343	2.348	4.8	17.7
7 30	20 3.72	+ 0 20.8	1.620	2.595	7.9	19.8	7 30	20 1.32	-31 13.5	1.334	2.329	6.5	17.8
8 9	19 57.32	- 1 7.2	1.653	2.610	9.2	19.9	8 9	19 51.80	-30 42.1	1.348	2.310	10.4	17.9
8 19	19 52.42	- 2 44.4	1.710	2.625	11.7	20.1	8 19	19 44.48	-29 55.3	1.386	2.293	14.5	18.1
8 29	19 49.60	- 4 23.7	1.789	2.642	14.3	20.3	8 29	19 40.26	-28 56.8	1.442	2.276	18.1	18.3
343484	2010 <i>EH</i> ₈₅		7 22.7 269°69	3°0/24.3 18			351935	2006 <i>TD</i> ₃₅		7 22.7 356°46	1°1/22.2 18		
6 20	20 31.28	-10 43.2	1.847	2.711	13.7	20.8	6 20	20 32.18	-21 50.7	1.863	2.750	12.6	20.9
6 30	20 26.31	-10 53.4	1.771	2.706	10.5	20.6	6 30	20 26.98	-22 11.0	1.796	2.748	9.1	20.7
7 10	20 19.41	-11 16.5	1.717	2.701	6.8	20.3	7 10	20 19.79	-22 34.7	1.751	2.748	5.3	20.4
7 20	20 11.22	-11 50.9	1.689	2.696	3.5	20.1	7 20	20 11.32	-22 58.1	1.732	2.747	1.4	20.2
7 30	20 2.64	-12 33.4	1.687	2.692	3.9	20.1	7 30	20 2.54	-23 17.9	1.740	2.747	3.5	20.3
8 9	19 54.67	-13 20.1	1.711	2.687	7.4	20.3	8 9	19 54.50	-23 31.3	1.775	2.747	7.5	20.6
8 19	19 48.20	-14 7.3	1.761	2.682	11.1	20.6	8 19	19 48.09	-23 37.2	1.834	2.747	11.2	20.8
8 29	19 43.92	-14 51.4	1.832	2.677	14.3	20.8	8 29	19 43.97	-23 35.7	1.914	2.747	14.3	21.0
230407	2002 <i>KA</i> ₂		7 22.7 148°47	1°6/21.7 18			137441	1999 <i>TG</i> ₂₃₈		7 22.7 213°05	2°9/21.1 18		
6 20	20 35.05	-23 4.0	2.299	3.173	11.0	20.9	6 20	20 37.15	-25 25.5	1.941	2.821	12.5	20.9
6 30	20 28.69	-23 46.0	2.237	3.184	8.0	20.7	6 30	20 30.73	-26 19.2	1.865	2.814	9.1	20.7
7 10	20 20.62	-24 30.0	2.199	3.194	4.6	20.5	7 10	20 22.06	-27 14.9	1.813	2.806	5.5	20.5
7 20	20 11.46	-25 12.0	2.190	3.203	1.7	20.3	7 20	20 11.85	-28 6.9	1.788	2.797	2.9	20.3
7 30	20 2.08	-25 48.3	2.209	3.212	3.5	20.5	7 30	20 1.12	-28 49.8	1.790	2.788	4.8	20.4
8 9	19 53.36	-26 16.2	2.257	3.220	6.7	20.7	8 9	19 51.06	-29 20.1	1.820	2.778	8.5	20.6
8 19	19 46.07	-26 34.8	2.330	3.227	9.8	20.9	8 19	19 42.71	-29 36.6	1.874	2.767	12.0	20.8
8 29	19 40.79	-26 44.2	2.427	3.234	12.4	21.1	8 29	19 36.86	-29 40.3	1.950	2.755	15.1	21.0
234087	1999 <i>TG</i> ₁₃₃		7 22.7 297°20	9°6/18.2 18			510680	2012 <i>UH</i> ₄₀		7 22.7 247°55	6°4/18.9 17		
6 20	20 40.60	-42 44.1	1.703	2.572	14.4	19.7	6 20	20 36.20	-35 2.2	1.922	2.803	12.5	21.6
6 30	20 33.94	-43 47.0	1.637	2.558	12.1	19.5	6 30	20 30.21	-36 12.8	1.857	2.797	9.7	21.4
7 10	20 24.17	-44 36.2	1.593	2.545	10.2	19.4	7 10	20 21.82	-37 17.6	1.816	2.792	7.3	21.3
7 20	20 12.29	-45 2.9	1.571	2.531	9.6	19.3	7 20	20 11.81	-38 9.4	1.801	2.786	6.4	21.2
7 30	19 59.86	-45 1.0	1.574	2.518	10.8	19.4	7 30	20 1.32	-38 42.5	1.811	2.780	7.8	21.3
8 9	19 48.63	-44 29.4	1.599	2.504	13.1	19.5	8 9	19 51.65	-38 54.3	1.847	2.774	10.4	21.4
8 19	19 39.98	-43 32.0	1.646	2.491	15.8	19.6	8 19	19 43.90	-38 46.0	1.905	2.768	13.2	21.6
8 29	19 34.82	-42 15.0	1.711	2.478	18.3	19.8	8 29	19 38.87	-38 20.6	1.984	2.762	15.8	21.8
244940	2003 <i>YL</i> ₅₃		7 22.7 303°31	2°6/21.3 18			18565	<i>Selg</i>		7 22.7 167°80	2°0/24.1 18		
6 20	20 32.32	-24 3.2	1.729	2.621	13.1	20.1	6 20	20 30.26	-12 9.4	2.611	3.465	10.5	19.5
6 30	20 27.40	-24 55.5	1.654	2.610	9.6	19.9	6 30	20 25.05	-12 16.9	2.537	3.468	7.9	19.3
7 10	20 20.21	-25 51.7	1.603	2.599	5.7	19.7	7 10	20 18.48	-12 32.3	2.487	3.470	5.0	19.1
7 20	20 11.43	-26 46.2	1.576	2.588	2.7	19.4	7 20	20 11.05	-12 54.3	2.464	3.472	2.4	18.9
7 30	20 2.14	-27 33.2	1.576	2.577	4.8	19.6	7 30	20 3.39	-13 21.0	2.469	3.474	2.8	19.0
8 9	19 53.53	-28 8.5	1.602	2.567	8.8	19.8	8 9	19 56.21	-13 49.9	2.503	3.475	5.6	19.1
8 19	19 46.67	-28 30.4	1.651	2.557	12.6	20.0	8 19	19 50.11	-14 19.0	2.564	3.477	8.4	19.3
8 29	19 42.37	-28 39.0	1.721	2.547	15.9	20.2	8 29	19 45.59	-14 46.4	2.649	3.478	10.9	19.5
281407	2008 <i>RQ</i> ₆₆		7 22.7 217°54	0°8/22.3 18			136686	1995 <i>SQ</i> ₃₅		7 22.7 260°69	2°2/23.7 18		
6 20	20 33.60	-20 10.6	1.885	2.766	12.7	20.9	6 20	20 34.51	-13 25.2	1.712	2.582	14.3	21.3
6 30	20 28.04	-20 46.7	1.812	2.763	9.3	20.7	6 30	20 29.01	-13 34.9	1.622	2.563	10.8	21.1
7 10	20 20.44	-21 28.5	1.763	2.759	5.3	20.5	7 10	20 21.19	-13 56.2	1.555	2.544	6.8	20.8
7 20	20 11.47	-22 11.8	1.740	2.755	1.3	20.2	7 20	20 11.70	-14 27.2	1.513	2.525	2.8	20.5
7 30	20 2.09	-22 52.3	1.744	2.751	3.5	20.3	7 30	20 1.55	-15 4.6	1.497	2.505	3.8	20.5
8 9	19 53.39	-23 26.4	1.775	2.746	7.6	20.6	8 9	19 51.96	-15 44.2	1.508	2.484	8.1	20.7
8 19	19 46.29	-23 51.8	1.831	2.741	11.3	20.8	8 19	19 44.00	-16 22.6	1.543	2.463	12.4	20.9
8 29	19 41.52	-24 8.1	1.908	2.736	14.5	21.0	8 29	19 38.57	-16 56.8	1.600	2.442	16.2	21.1
68261	2001 <i>EU</i>		7 22.7 84°86	1°8/21.6 18			38029	1998 <i>QZ</i> _{24</}					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V	
306975	2001 <i>VP</i> ₇₆	7 22.7 176°45' 16" 3/15.4 16						392048	2009 <i>BU</i> ₁₁₆	7 22.7 309°19' 0" 2/22.6 18				
6 20	20 54.72	-52 35.3	1.286	2.132	19.6	20.3	6 20	20 30.92	-17 25.6	1.814	2.696	13.1	20.9	
6 30	20 46.02	-54 38.3	1.250	2.134	17.7	20.2	6 30	20 26.21	-18 15.0	1.740	2.690	9.6	20.7	
7 10	20 31.92	-56 13.6	1.231	2.135	16.5	20.1	7 10	20 19.46	-19 13.8	1.688	2.684	5.5	20.4	
7 20	20 14.08	-57 5.7	1.232	2.136	16.5	20.1	7 20	20 11.32	-20 17.7	1.663	2.678	1.2	20.1	
7 30	19 55.56	-57 5.4	1.252	2.136	17.5	20.2	7 30	20 2.73	-21 21.5	1.664	2.672	3.3	20.3	
8 9	19 39.71	-56 14.9	1.290	2.136	19.4	20.3	8 9	19 54.76	-22 20.1	1.692	2.666	7.6	20.5	
8 19	19 28.78	-54 44.7	1.344	2.135	21.5	20.4	8 19	19 48.35	-23 10.0	1.745	2.661	11.5	20.7	
8 29	19 23.61	-52 47.9	1.413	2.134	23.5	20.6	8 29	19 44.22	-23 49.4	1.819	2.656	14.8	20.9	
370295	2002 <i>QB</i> ₁₃₈	7 22.7 332°59' 0" 5/22.5 17						509349	2006 <i>YK</i> ₄₅	7 22.7 325°36' 2" 9/20.9 18				
6 20	20 31.43	-20 0.4	1.155	2.063	17.0	21.2	6 20	20 31.48	-25 5.1	1.987	2.875	11.9	21.1	
6 30	20 27.51	-20 14.1	1.086	2.049	12.5	20.9	6 30	20 26.53	-26 7.3	1.918	2.871	8.6	20.9	
7 10	20 20.62	-20 35.8	1.037	2.036	7.3	20.6	7 10	20 19.60	-27 11.9	1.873	2.868	5.2	20.7	
7 20	20 11.61	-21 1.3	1.009	2.024	1.6	20.2	7 20	20 11.35	-28 13.6	1.855	2.865	2.9	20.5	
7 30	20 1.91	-21 25.3	1.004	2.013	4.5	20.3	7 30	20 2.69	-29 7.1	1.864	2.861	4.7	20.6	
8 9	19 53.20	-21 43.1	1.021	2.003	10.2	20.6	8 9	19 54.66	-29 48.6	1.899	2.858	8.1	20.8	
8 19	19 46.88	-21 52.3	1.059	1.993	15.4	20.9	8 19	19 48.17	-30 16.4	1.959	2.856	11.4	21.0	
8 29	19 43.95	-21 52.2	1.115	1.985	19.8	21.1	8 29	19 43.91	-30 30.8	2.040	2.853	14.3	21.2	
501976	2014 <i>YV</i> ₂₈	7 22.7 123°07' 3" 8/21.0 17						283230	2010 <i>RL</i> ₁₁₈	7 22.7 232°23' 6" 0/18.6 18				
6 20	20 37.25	-27 2.5	1.543	2.434	14.5	21.1	6 20	20 35.28	-38 13.0	2.480	3.347	10.5	20.8	
6 30	20 31.08	-27 50.7	1.485	2.439	10.6	20.9	6 30	20 29.12	-39 9.0	2.414	3.341	8.4	20.6	
7 10	20 22.34	-28 38.5	1.450	2.444	6.6	20.6	7 10	20 21.02	-39 57.5	2.372	3.335	6.6	20.5	
7 20	20 11.93	-29 19.3	1.440	2.448	3.8	20.5	7 20	20 11.64	-40 33.3	2.356	3.329	6.0	20.4	
7 30	20 1.17	-29 47.5	1.455	2.452	5.7	20.6	7 30	20 1.92	-40 52.6	2.367	3.322	7.0	20.5	
8 9	19 51.46	-30 0.1	1.496	2.457	9.7	20.9	8 9	19 52.87	-40 53.7	2.404	3.315	9.0	20.6	
8 19	19 43.95	-29 57.4	1.559	2.461	13.5	21.1	8 19	19 45.37	-40 37.8	2.465	3.308	11.2	20.8	
8 29	19 39.39	-29 41.5	1.643	2.464	16.8	21.3	8 29	19 40.08	-40 7.5	2.546	3.301	13.3	20.9	
137434	1999 <i>TQ</i> ₂₁₉	7 22.7 307°00' 2" 2/22.0 18						470314	2007 <i>MU</i> ₁₆	7 22.7 334°87' 2" 5/24.2 16				
6 20	20 35.84	-24 19.9	1.306	2.206	16.0	19.6	6 20	20 27.29	-10 14.0	1.301	2.189	16.8	20.5	
6 30	20 30.61	-24 30.0	1.230	2.189	11.8	19.3	6 30	20 24.20	-11 9.5	1.224	2.174	12.8	20.2	
7 10	20 22.37	-24 41.8	1.174	2.172	7.0	18.9	7 10	20 18.61	-12 28.3	1.167	2.159	8.1	19.9	
7 20	20 11.99	-24 50.1	1.141	2.155	2.5	18.6	7 20	20 11.19	-14 6.5	1.133	2.145	3.4	19.6	
7 30	20 0.89	-24 50.2	1.132	2.138	5.0	18.7	7 30	20 3.05	-15 56.7	1.123	2.132	4.1	19.6	
8 9	19 50.74	-24 39.4	1.147	2.122	10.2	19.0	8 9	19 55.59	-17 49.0	1.137	2.120	9.1	19.8	
8 19	19 42.96	-24 17.9	1.184	2.106	15.2	19.2	8 19	19 50.04	-19 34.6	1.173	2.109	14.1	20.1	
8 29	19 38.54	-23 47.3	1.239	2.091	19.4	19.4	8 29	19 47.38	-21 6.6	1.230	2.100	18.4	20.3	
442806	2013 <i>AO</i> ₂₈	7 22.7 165°64' 2" 8/21.1 18						444361	2005 <i>XH</i> ₃₇	7 22.7 308°42' 0" 8/22.3 18				
6 20	20 34.69	-28 18.0	2.474	3.350	10.3	22.0	6 20	20 30.94	-21 0.0	1.955	2.840	12.2	21.0	
6 30	20 28.40	-28 44.7	2.408	3.353	7.6	21.8	6 30	20 26.22	-21 23.5	1.865	2.817	8.9	20.7	
7 10	20 20.47	-29 9.4	2.367	3.356	4.7	21.6	7 10	20 19.49	-21 51.9	1.798	2.795	5.2	20.4	
7 20	20 11.50	-29 28.4	2.353	3.359	2.8	21.5	7 20	20 11.34	-22 21.7	1.757	2.772	1.3	20.1	
7 30	20 2.32	-29 39.0	2.367	3.362	4.1	21.6	7 30	20 2.67	-22 49.2	1.743	2.750	3.4	20.2	
8 9	19 53.79	-29 39.6	2.410	3.364	6.9	21.8	8 9	19 54.51	-23 11.4	1.756	2.728	7.5	20.4	
8 19	19 46.65	-29 30.5	2.478	3.366	9.6	21.9	8 19	19 47.79	-23 26.2	1.793	2.707	11.3	20.6	
8 29	19 41.46	-29 12.8	2.569	3.367	12.1	22.1	8 29	19 43.30	-23 33.0	1.851	2.685	14.7	20.8	
305451	2008 <i>CH</i> ₂₁₃	7 22.7 94°93' 1" 3/23.4 18						98406	2000 <i>UC</i> ₁₀	7 22.7 207°81' 5" 2/20.3 18				
6 20	20 32.35	-15 52.2	2.187	3.055	11.7	20.5	6 20	20 38.10	-29 41.8	1.520	2.412	14.6	19.1	
6 30	20 26.73	-15 49.4	2.123	3.064	8.6	20.4	6 30	20 31.93	-30 45.3	1.458	2.410	10.9	18.9	
7 10	20 19.50	-15 52.8	2.083	3.073	5.2	20.2	7 10	20 22.96	-31 47.0	1.418	2.408	7.2	18.7	
7 20	20 11.29	-16 0.8	2.069	3.082	1.8	19.9	7 20	20 12.10	-32 38.7	1.403	2.405	5.2	18.6	
7 30	20 2.89	-16 11.2	2.083	3.091	2.8	20.0	7 30	20 0.73	-33 13.6	1.413	2.402	7.0	18.7	
8 9	19 55.15	-16 22.2	2.125	3.099	6.3	20.3	8 9	19 50.39	-33 28.3	1.448	2.399	10.7	18.9	
8 19	19 48.78	-16 32.2	2.192	3.108	9.5	20.5	8 19	19 42.35	-33 23.6	1.505	2.396	14.5	19.1	
8 29	19 44.33	-16 39.9	2.283	3.116	12.3	20.7	8 29	19 37.47	-33 2.6	1.581	2.393	17.8	19.3	
249687	2000 <i>AY</i> ₄₂	7 22.7 151°30' 5" 6/25.4 18						482750	2013 <i>FQ</i> ₅	7 22.7 115°12' 3" 7/20.2 18				
6 20	20 37.76	-3 5.2	2.426	3.232	12.7	20.4	6 20	20 32.41	-29 14.4	2.313	3.195	10.7	21.3	
6 30	20 30.43	-2 23.4	2.357	3.246	10.2	20.3	6 30	20 26.95	-30 11.1	2.251	3.199	7.9	21.1	
7 10	20 21.56	-1 54.1	2.312	3.259	7.7	20.1	7 10	20 19.72	-31 6.0	2.215	3.203	5.1	21.0	
7 20	20 11.73	-1 38.3	2.294	3.270	5.9	20.0	7 20	20 11.37	-31 54.5	2.205	3.207	3.7	20.9	
7 30	20 1.72	-1 35.9	2.304	3.281	5.8	20.1	7 30	20 2.72	-32 32.3	2.223	3.210	5.0	21.0	
8 9	19 52.33	-1 45.1	2.344	3.290	7.5	20.2	8 9	19 54.71	-32 57.2	2.267	3.214	7.7	21.2	
8 19	19 44.25	-2 3.6	2.409	3.299	9.8	20.3	8 19	19 48.13	-33 8.5	2.337	3.218	10.4	21.3	
8 29	19 38.03	-2 28.2	2.499	3.306	12.1	20.5	8 29	19 43.57	-33 7.5	2.429	3.222	12.8	21.5	
417867	2007 <i>MO</i>	7 22.7 29°82' 0" 3/22.5 17						475413	2006 <i>KY</i> ₁₃	7 22.7 68°29' 5" 6/26.1 18				
6 20	20 33.59	-9 4.1	1.251	2.129	18.1	18.9	6 20	20 31.19	-3 38.3	1.744	2.585	15.4	21.1	
6 30	20 28.75	-12 14.5	1.197	2.144	13.2	18.6	6 30	20 26.17	-3 41.5	1.686	2.599	12.3	20.9	
7 10	20 21.18	-15 54.2	1.166	2.161	7.6	18.4	7 10	20 19.30	-4 3.8	1.649	2.613	8.9	20.8	
7 20	20 11.71	-19 48.1	1.163	2.179	1.5	18.0	7 20	20 11.27	-4 44.1	1.636	2.627	6.2	20.6	
7 30	20 1.68	-23 36.6	1.190	2.197	4.5	18.3	7 30	20 3.02	-5 39.7	1.649	2.641	5.9	20.7	
8 9	19 52.59	-27 1.9	1.245	2.217	10.0	18.7	8 9	19 55.53	-6 45.4	1.687	2.656	8.1	20.8	
8 19	19 45.72	-29 53.3	1.326	2.237	14.7	19.0	8 19	19 49.61	-7 55.8	1.750	2.670	11.2	21.0	
8 29	19 42.00	-32 8.1	1.428	2.258	18.5	19.3	8 29	19 45.88	-9 5.6	1.836	2.684	14.2	21.3	
289316	2005 <i>AT</i> ₂₆	7 22.7 211°57' 1" 1/23.2 17						264753	2002 <i>DA</i> ₉	7 22.7 181°53' 6" 6/18.9 18				
6 20	20 34.17	-16 57.1	2.011	2.882	12.5	21.1	6 20	20 37.79	-35 32.6	1.890	2.769	12.8	20.1	
6 30	20 28.28	-16 53.5	1.936</											

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
169765	2002 <i>PF</i> ₆₀		7 22.7	6°10	8°7/29.4	18	521460	2015 <i>OP</i> ₉₁		7 22.7	326°90	3°8/24.4	18
6 20	20 22.53	+ 3 41.2	1.102	1.957	21.5	18.2	6 20	20 31.19	-10 13.5	2.009	2.867	13.0	20.6
6 30	20 20.75	+ 2 52.9	1.044	1.958	17.9	18.0	6 30	20 26.13	- 9 45.8	1.932	2.861	10.0	20.4
7 10	20 16.56	+ 1 23.2	1.003	1.961	13.9	17.8	7 10	20 19.31	- 9 28.3	1.877	2.856	6.8	20.2
7 20	20 10.73	- 0 46.7	0.980	1.966	10.2	17.6	7 20	20 11.33	- 9 20.9	1.848	2.850	4.2	20.0
7 30	20 4.46	- 3 29.2	0.980	1.973	8.7	17.5	7 30	20 3.03	- 9 22.6	1.845	2.845	4.4	20.0
8 9	19 59.09	- 6 30.0	1.003	1.982	10.6	17.7	8 9	19 55.32	- 9 31.7	1.869	2.840	7.2	20.2
8 19	19 55.73	- 9 32.7	1.048	1.994	14.3	17.9	8 19	19 48.98	- 9 45.9	1.918	2.835	10.5	20.3
8 29	19 55.21	-12 23.1	1.114	2.007	18.1	18.2	8 29	19 44.65	-10 25.9	1.989	2.831	13.5	20.5
192408	1997 <i>GD</i> ₁		7 22.7	304°54	2°7/24.1	16	246291	2007 <i>TQ</i> ₇₆		7 22.7	255°26	0°7/23.0	17
6 20	20 31.89	-11 50.1	1.789	2.657	13.9	20.8	6 20	20 35.55	-16 41.5	1.505	2.388	15.3	21.6
6 30	20 26.81	-11 56.0	1.718	2.656	10.5	20.6	6 30	20 30.04	-17 5.9	1.425	2.375	11.3	21.3
7 10	20 19.76	-12 13.8	1.668	2.654	6.7	20.3	7 10	20 21.93	-17 40.9	1.366	2.361	6.7	21.0
7 20	20 11.41	-12 41.9	1.644	2.653	3.3	20.1	7 20	20 11.96	-18 22.8	1.332	2.347	1.7	20.7
7 30	20 2.70	-13 17.1	1.646	2.652	3.8	20.2	7 30	20 1.31	-19 6.8	1.324	2.332	3.7	20.8
8 9	19 54.67	-13 55.8	1.674	2.650	7.4	20.4	8 9	19 51.37	-19 47.9	1.341	2.318	8.8	21.1
8 19	19 48.20	-14 34.6	1.727	2.649	11.2	20.6	8 19	19 43.38	-20 22.6	1.382	2.303	13.5	21.3
8 29	19 43.99	-15 10.4	1.802	2.648	14.5	20.8	8 29	19 38.27	-20 48.9	1.442	2.287	17.5	21.5
21458	Susank		7 22.7	203°90	2°6/23.9	18	521473	2015 <i>OV</i> ₉₂		7 22.7	322°64	0°9/23.4	18
6 20	20 34.40	-12 15.9	1.608	2.479	15.1	18.6	6 20	20 29.15	-13 53.5	2.045	2.917	12.3	20.6
6 30	20 28.86	-12 28.7	1.536	2.477	11.4	18.4	6 30	20 24.74	-14 49.7	1.966	2.909	9.1	20.4
7 10	20 21.05	-12 54.7	1.487	2.474	7.2	18.2	7 10	20 18.57	-15 57.8	1.910	2.902	5.4	20.2
7 20	20 11.71	-13 31.6	1.461	2.472	3.2	17.9	7 20	20 11.19	-17 14.0	1.881	2.895	1.6	19.9
7 30	20 1.92	-14 15.6	1.462	2.469	3.9	17.9	7 30	20 3.39	-18 33.4	1.880	2.888	2.8	20.0
8 9	19 52.88	-15 2.1	1.489	2.466	8.1	18.2	8 9	19 56.08	-19 50.7	1.906	2.882	6.7	20.2
8 19	19 45.64	-15 47.1	1.540	2.463	12.3	18.4	8 19	19 50.07	-21 1.7	1.958	2.876	10.3	20.4
8 29	19 40.98	-16 27.3	1.612	2.459	15.9	18.7	8 29	19 46.05	-22 3.2	2.034	2.870	13.5	20.6
329194	2012 <i>DG</i> ₃₉		7 22.7	137°18	0°2/22.7	17	480001	2014 <i>KW</i> ₇₇		7 22.7	105°35	0°3/22.5	18
6 20	20 36.93	-19 5.8	1.658	2.538	14.2	21.7	6 20	20 30.65	-17 29.3	2.296	3.169	11.1	20.9
6 30	20 30.56	-19 27.7	1.598	2.547	10.4	21.5	6 30	20 25.60	-18 29.6	2.229	3.175	8.0	20.7
7 10	20 21.94	-19 55.7	1.560	2.555	6.0	21.3	7 10	20 18.94	-19 37.2	2.188	3.182	4.6	20.5
7 20	20 11.88	-20 25.9	1.548	2.563	1.3	21.0	7 20	20 11.25	-20 47.9	2.174	3.189	1.0	20.3
7 30	20 1.54	-20 54.1	1.562	2.570	3.5	21.2	7 30	20 3.27	-21 57.2	2.188	3.196	2.8	20.4
8 9	19 52.13	-21 17.1	1.603	2.577	8.0	21.4	8 9	19 55.82	-23 1.0	2.232	3.202	6.3	20.7
8 19	19 44.65	-21 33.1	1.669	2.583	12.0	21.7	8 19	19 49.63	-23 56.3	2.301	3.209	9.5	20.9
8 29	19 39.78	-21 41.8	1.756	2.589	15.4	21.9	8 29	19 45.26	-24 41.7	2.394	3.215	12.2	21.1
219931	2002 <i>GW</i> ₉₄		7 22.7	351°00	5°0/20.1	18	434138	2002 <i>RW</i> ₁		7 22.7	326°76	6°6/26.1	18
6 20	20 33.58	-32 58.0	2.019	2.903	11.9	19.6	6 20	20 26.27	- 3 59.3	1.364	2.231	17.5	20.5
6 30	20 28.07	-33 40.9	1.956	2.901	9.0	19.4	6 30	20 23.51	- 4 2.4	1.268	2.196	14.3	20.2
7 10	20 20.48	-34 18.6	1.916	2.899	6.3	19.2	7 10	20 18.31	- 4 30.7	1.190	2.163	10.6	19.9
7 20	20 11.57	-34 45.9	1.902	2.897	5.0	19.1	7 20	20 11.22	- 5 26.0	1.133	2.130	7.4	19.6
7 30	20 2.35	-34 58.7	1.914	2.896	6.3	19.2	7 30	20 3.21	- 6 46.4	1.099	2.098	6.9	19.5
8 9	19 53.93	-34 55.5	1.952	2.894	9.0	19.4	8 9	19 55.61	- 8 26.1	1.088	2.067	10.1	19.6
8 19	19 47.23	-34 37.1	2.013	2.894	11.9	19.5	8 19	19 49.70	-10 16.2	1.100	2.038	14.6	19.8
8 29	19 42.93	-34 5.9	2.095	2.893	14.4	19.7	8 29	19 46.59	-12 7.4	1.130	2.010	19.0	19.9
24039	1999 <i>SS</i> ₈		7 22.7	9°83	2°2/21.6	18	268325	2005 <i>SS</i> ₂₃		7 22.7	127°70	2°0/23.9	18
6 20	20 29.61	-19 21.1	1.051	1.965	17.7	16.6	6 20	20 33.40	-12 22.1	1.711	2.581	14.4	20.1
6 30	20 26.27	-20 46.9	0.999	1.966	12.9	16.3	6 30	20 27.97	-12 54.7	1.647	2.587	10.7	19.9
7 10	20 19.91	-22 26.2	0.968	1.969	7.4	16.0	7 10	20 20.46	-13 40.4	1.605	2.593	6.7	19.7
7 20	20 11.49	-24 9.4	0.958	1.972	2.4	15.7	7 20	20 11.60	-14 35.9	1.588	2.599	2.7	19.5
7 30	20 2.53	-25 45.1	0.971	1.977	5.6	16.0	7 30	20 2.40	-15 36.5	1.598	2.605	3.5	19.5
8 9	19 54.72	-27 4.2	1.006	1.983	11.0	16.3	8 9	19 53.97	-16 37.1	1.634	2.611	7.5	19.8
8 19	19 49.45	-28 2.1	1.061	1.989	16.0	16.6	8 19	19 47.21	-17 33.4	1.695	2.616	11.4	20.0
8 29	19 47.62	-28 38.0	1.134	1.997	20.1	16.9	8 29	19 42.85	-18 22.5	1.779	2.621	14.8	20.3
314547	2005 <i>YU</i> ₁₁₃		7 22.7	173°19	1°8/21.5	18	512729	2016 <i>UF</i> ₂₃		7 22.7	292°39	0°9/23.2	18
6 20	20 31.29	-24 39.1	2.667	3.543	9.6	21.2	6 20	20 31.59	-16 31.0	1.941	2.818	12.6	21.1
6 30	20 25.89	-25 14.0	2.597	3.544	7.0	21.0	6 30	20 26.56	-16 44.2	1.864	2.810	9.3	20.9
7 10	20 19.04	-25 49.7	2.552	3.546	4.1	20.9	7 10	20 19.63	-17 5.0	1.809	2.802	5.5	20.7
7 20	20 11.25	-26 23.0	2.535	3.547	1.8	20.7	7 20	20 11.43	-17 31.0	1.780	2.794	1.6	20.4
7 30	20 3.22	-26 51.1	2.547	3.548	3.3	20.8	7 30	20 2.84	-17 59.0	1.778	2.786	3.0	20.5
8 9	19 55.70	-27 11.8	2.587	3.548	6.1	21.0	8 9	19 54.85	-18 26.0	1.803	2.779	7.0	20.7
8 19	19 49.34	-27 24.2	2.653	3.549	8.8	21.2	8 19	19 48.32	-18 49.5	1.852	2.771	10.8	20.9
8 29	19 44.67	-27 28.5	2.743	3.549	11.2	21.3	8 29	19 43.95	-19 8.1	1.924	2.764	14.0	21.1
509886	2009 <i>BC</i> ₈₅		7 22.7	212°56	0°5/22.9	18	467296	2016 <i>ED</i> ₁₉₈		7 22.7	14°18	0°9/22.9	17
6 20	20 33.32	-17 40.0	2.293	3.161	11.3	22.5	6 20	20 33.22	-18 31.7	1.002	1.913	18.7	20.5
6 30	20 27.55	-17 53.0	2.212	3.155	8.3	22.3	6 30	20 28.83	-18 22.0	0.952	1.916	13.8	20.2
7 10	20 20.07	-18 11.3	2.156	3.149	4.8	22.1	7 10	20 21.33	-18 21.2	0.920	1.919	8.1	19.9
7 20	20 11.49	-18 32.7	2.127	3.142	1.2	21.8	7 20	20 11.82	-18 26.2	0.909	1.924	2.1	19.6
7 30	20 2.57	-18 54.6	2.127	3.135	2.7	21.9	7 30	20 1.93	-18 33.0	0.921	1.931	4.4	19.7
8 9	19 54.19	-19 14.6	2.155	3.127	6.3	22.1	8 9	19 53.44	-18 38.1	0.954	1.938	10.3	20.1
8 19	19 47.11	-19 31.0	2.209	3.119	9.6	22.3	8 19	19 47.65	-18 39.3	1.007	1.946	15.5	20.4
8 29	19 41.94	-19 42.7	2.286	3.111	12.5	22.5	8 29	19 45.37	-18 35.7	1.077	1.955	19.8	20.7
195448	2002 <i>GD</i>												

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
158963	2004 <i>RH</i> ₂₁₆		7 22.7 199°46	7.8/29.8	18		44187	1998 <i>KC</i> ₅₆		7 22.8 223°29	6°0/26.1	18	
6 20	20 28.70	+12 47.6	3.375	4.077	11.4	21.1	6 20	20 33.19	- 2 52.4	1.778	2.611	15.5	18.1
6 30	20 23.76	+13 18.3	3.289	4.073	10.2	21.0	6 30	20 27.88	- 2 54.2	1.696	2.604	12.5	17.9
7 10	20 17.74	+13 32.9	3.225	4.068	9.0	20.9	7 10	20 20.51	- 3 15.9	1.636	2.597	9.3	17.7
7 20	20 11.00	+13 29.8	3.183	4.063	8.1	20.8	7 20	20 11.70	- 3 57.5	1.600	2.588	6.6	17.5
7 30	20 4.04	+13 8.8	3.166	4.057	7.8	20.8	7 30	20 2.40	- 4 56.7	1.589	2.580	6.3	17.4
8 9	19 57.38	+12 31.1	3.174	4.051	8.1	20.8	8 9	19 53.67	- 6 8.8	1.605	2.571	8.7	17.6
8 19	19 51.50	+11 39.3	3.207	4.044	9.1	20.9	8 19	19 46.46	- 7 27.9	1.645	2.562	12.0	17.7
8 29	19 46.84	+10 36.9	3.263	4.037	10.3	21.0	8 29	19 41.55	- 8 48.0	1.708	2.552	15.3	17.9
247434	2002 <i>DG</i> ₄		7 22.7 34°72	6°0/17.8	18		208206	2000 <i>ST</i> ₂₄		7 22.8 308°23	7°4/20.2	18	
6 20	20 33.94	-28 29.0	1.675	2.568	13.4	18.7	6 20	20 38.49	-33 42.6	1.239	2.139	16.6	19.4
6 30	20 28.75	-31 7.9	1.633	2.585	10.0	18.6	6 30	20 33.01	-34 31.9	1.170	2.123	12.9	19.1
7 10	20 21.11	-33 46.5	1.617	2.603	7.0	18.4	7 10	20 24.02	-35 14.3	1.121	2.107	9.2	18.9
7 20	20 11.78	-36 13.1	1.629	2.621	6.1	18.4	7 20	20 12.53	-35 40.3	1.094	2.092	7.4	18.7
7 30	20 1.95	-38 17.4	1.668	2.640	8.0	18.6	7 30	20 0.25	-35 41.8	1.090	2.076	9.2	18.8
8 9	19 52.93	-39 53.8	1.734	2.660	11.0	18.8	8 9	19 49.21	-35 16.6	1.108	2.062	13.1	19.0
8 19	19 45.86	-41 1.3	1.822	2.680	14.0	19.0	8 19	19 41.03	-34 27.6	1.147	2.048	17.3	19.2
8 29	19 41.60	-41 42.5	1.930	2.700	16.4	19.3	8 29	19 36.76	-33 21.0	1.203	2.034	21.1	19.4
225821	2001 <i>WO</i> ₁₀₃		7 22.7 189°32	4°8/25.8	18		63325	2001 <i>FU</i> ₅₁		7 22.8 45°28	2°1/23.6	17	
6 20	20 32.77	- 3 45.2	2.390	3.210	12.4	21.2	6 20	20 33.77	-14 17.3	1.255	2.146	17.2	19.0
6 30	20 27.04	- 3 43.6	2.309	3.209	9.9	21.0	6 30	20 28.68	-14 25.9	1.206	2.158	12.7	18.7
7 10	20 19.76	- 3 56.0	2.250	3.207	7.3	20.8	7 10	20 21.04	-14 47.8	1.177	2.170	7.8	18.5
7 20	20 11.46	- 4 22.2	2.218	3.205	5.2	20.7	7 20	20 11.80	-15 19.5	1.170	2.183	2.9	18.2
7 30	20 2.85	- 5 0.6	2.214	3.202	5.0	20.7	7 30	20 2.30	-15 56.5	1.188	2.197	4.1	18.4
8 9	19 54.72	- 5 48.2	2.237	3.198	6.9	20.8	8 9	19 53.96	-16 33.7	1.230	2.211	8.9	18.7
8 19	19 47.75	- 6 41.5	2.287	3.193	9.6	20.9	8 19	19 47.87	-17 7.4	1.294	2.225	13.4	19.0
8 29	19 42.52	- 7 36.8	2.361	3.188	12.1	21.1	8 29	19 44.72	-17 34.9	1.378	2.240	17.2	19.3
274931	2009 <i>SD</i> ₁₉₇		7 22.7 328°89	0°8/22.5	15		291995	2006 <i>QX</i> ₁₁₁		7 22.8 310°85	5°9/24.9	18	
6 20	20 32.45	-21 36.1	1.198	2.105	16.6	20.5	6 20	20 31.97	- 7 53.1	1.311	2.185	17.6	20.3
6 30	20 28.28	-21 36.8	1.125	2.087	12.3	20.2	6 30	20 27.62	- 7 22.8	1.234	2.170	14.0	20.0
7 10	20 21.12	-21 42.1	1.071	2.070	7.2	19.9	7 10	20 20.64	- 7 10.1	1.176	2.155	9.9	19.8
7 20	20 11.83	-21 48.2	1.039	2.054	1.7	19.5	7 20	20 11.77	- 7 16.2	1.140	2.140	6.5	19.5
7 30	20 1.83	-21 50.7	1.030	2.039	4.5	19.6	7 30	20 2.21	- 7 40.0	1.127	2.126	6.6	19.5
8 9	19 52.77	-21 46.7	1.044	2.025	10.1	19.9	8 9	19 53.38	- 8 17.7	1.137	2.113	10.2	19.7
8 19	19 46.09	-21 35.2	1.079	2.012	15.3	20.1	8 19	19 46.54	- 9 4.0	1.169	2.100	14.6	19.9
8 29	19 42.77	-21 16.4	1.132	2.000	19.7	20.4	8 29	19 42.65	- 9 53.3	1.219	2.087	18.6	20.1
88498	2001 <i>QO</i> ₁₃₈		7 22.7 296°08	4°5/20.7	18		262164	2006 <i>SN</i> ₉₇		7 22.8 157°72	3°9/20.9	17	
6 20	20 36.27	-32 13.4	2.002	2.883	12.1	19.2	6 20	20 38.71	-28 32.0	1.805	2.687	13.1	21.8
6 30	20 30.03	-32 39.8	1.933	2.878	9.1	19.0	6 30	20 31.93	-29 18.4	1.744	2.693	9.7	21.6
7 10	20 21.65	-33 0.8	1.888	2.873	6.2	18.9	7 10	20 22.82	-30 2.7	1.708	2.698	6.2	21.4
7 20	20 11.89	-33 11.6	1.869	2.869	4.5	18.7	7 20	20 12.21	-30 39.1	1.697	2.703	3.9	21.3
7 30	20 1.84	-33 8.8	1.877	2.864	5.8	18.8	7 30	20 1.28	-31 2.7	1.713	2.707	5.6	21.4
8 9	19 52.63	-32 51.1	1.910	2.859	8.8	19.0	8 9	19 51.29	-31 11.1	1.756	2.710	9.0	21.6
8 19	19 45.22	-32 19.9	1.968	2.855	11.8	19.2	8 19	19 43.28	-31 4.9	1.823	2.714	12.4	21.8
8 29	19 40.28	-31 37.8	2.048	2.851	14.6	19.3	8 29	19 37.96	-30 46.4	1.910	2.716	15.4	22.0
424417	2008 <i>AQ</i> ₈₄		7 22.8 257°95	1°8/22.0	17		106044	2000 <i>SB</i> ₃₀₇		7 22.8 343°97	4°6/20.8	18	
6 20	20 37.78	-23 5.1	1.654	2.539	14.0	22.3	6 20	20 35.09	-31 40.5	1.821	2.709	12.8	18.9
6 30	20 31.62	-23 30.5	1.569	2.520	10.3	22.0	6 30	20 29.35	-32 5.8	1.755	2.704	9.6	18.7
7 10	20 22.86	-23 59.3	1.505	2.501	6.1	21.8	7 10	20 21.35	-32 26.0	1.712	2.700	6.5	18.5
7 20	20 12.22	-24 26.9	1.468	2.482	2.0	21.4	7 20	20 11.89	-32 36.0	1.694	2.696	4.6	18.4
7 30	20 0.89	-24 48.2	1.456	2.461	4.4	21.6	7 30	20 2.13	-32 32.0	1.702	2.692	6.0	18.5
8 9	19 50.24	-24 59.9	1.471	2.441	9.0	21.8	8 9	19 53.27	-32 12.8	1.736	2.689	9.1	18.7
8 19	19 41.51	-25 1.0	1.510	2.420	13.3	22.0	8 19	19 46.31	-31 39.9	1.793	2.686	12.4	18.9
8 29	19 35.63	-24 52.2	1.569	2.398	17.1	22.2	8 29	19 41.96	-30 56.0	1.870	2.684	15.3	19.0
237167	2008 <i>UK</i> ₁₃₈		7 22.8 172°25	3°0/24.3	18		9240	Nassau		7 22.8 293°88	0°7/22.3	18	
6 20	20 32.83	-10 49.2	2.003	2.861	13.1	20.5	6 20	20 30.49	-19 43.4	2.182	3.062	11.3	17.4
6 30	20 27.32	-10 47.7	1.931	2.862	10.0	20.3	6 30	20 25.77	-20 22.3	2.092	3.041	8.3	17.2
7 10	20 20.02	-10 57.3	1.882	2.863	6.5	20.1	7 10	20 19.25	-21 7.3	2.026	3.021	4.8	16.9
7 20	20 11.56	-11 16.6	1.858	2.865	3.5	19.9	7 20	20 11.45	-21 55.1	1.986	3.001	1.1	16.6
7 30	20 2.80	-11 43.5	1.862	2.865	3.8	19.9	7 30	20 3.18	-22 41.6	1.974	2.980	3.1	16.8
8 9	19 54.66	-12 14.9	1.892	2.866	7.0	20.1	8 9	19 55.33	-23 23.2	1.989	2.960	6.9	17.0
8 19	19 47.94	-12 47.9	1.949	2.866	10.4	20.3	8 19	19 48.74	-23 57.5	2.030	2.940	10.4	17.1
8 29	19 43.29	-13 19.7	2.027	2.866	13.4	20.5	8 29	19 44.13	-24 23.1	2.093	2.920	13.5	17.3
278053	2006 <i>WG</i> ₂₀₁		7 22.8 81°73	0°3/22.6	18		261642	2005 <i>YN</i> ₆₉		7 22.8 5°15	0°5/22.5	18	
6 20	20 30.41	-18 10.4	2.232	3.108	11.2	20.6	6 20	20 31.68	-20 52.7	2.247	3.125	11.1	20.5
6 30	20 25.48	-18 55.3	2.165	3.112	8.2	20.4	6 30	20 26.38	-21 3.0	2.176	3.125	8.0	20.3
7 10	20 18.92	-19 46.5	2.122	3.117	4.7	20.2	7 10	20 19.45	-21 16.3	2.130	3.125	4.6	20.1
7 20	20 11.32	-20 40.6	2.107	3.122	1.0	19.9	7 20	20 11.47	-21 30.1	2.110	3.125	1.0	19.9
7 30	20 3.43	-21 33.5	2.119	3.127	2.8	20.1	7 30	20 3.24	-21 41.8	2.118	3.125	2.8	20.0
8 9	19 56.11	-22 21.6	2.159	3.131	6.4	20.3	8 9	19 55.63	-21 49.7	2.154	3.126	6.4	20.2
8 19	19 50.08	-23 2.5	2.225	3.136	9.6	20.5	8 19	19 49.35	-21 52.6	2.215	3.126	9.6	20.4
8 29	19 45.91	-23 35.0	2.315	3.141	12.4	20.7	8 29	19 44.98	-21 50.2	2.299	3.127	12.4	20.6
181073	2005 <i>QQ</i> ₁₉		7 22.8 9°46	0°2/22.7	18		334384	2002 <i>BL</i> <					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
5360	Rozhdestvenskij		7 22.8 262°19	9°2/16.7	18		19959	1985 <i>UJ</i> ₃		7 22.8 341°02	0°4/22.6	18	
6 20	20 40.52	-49 17.9	2.423	3.256	11.9	16.9	6 20	20 26.43	-19 6.1	0.939	1.862	18.4	16.7
6 30	20 33.31	-50 20.5	2.372	3.255	10.4	16.8	6 30	20 24.38	-19 25.0	0.873	1.844	13.7	16.3
7 10	20 23.63	-51 7.9	2.343	3.253	9.4	16.7	7 10	20 19.14	-19 55.9	0.824	1.826	8.0	16.0
7 20	20 12.40	-51 34.1	2.338	3.252	9.3	16.7	7 20	20 11.54	-20 34.3	0.795	1.811	1.8	15.5
7 30	20 0.87	-51 35.1	2.358	3.250	10.0	16.8	7 30	20 3.10	-21 13.2	0.787	1.797	4.8	15.7
8 9	19 50.38	-51 11.1	2.400	3.249	11.4	16.9	8 9	19 55.69	-21 46.2	0.799	1.785	11.2	16.0
8 19	19 42.02	-50 24.8	2.463	3.247	13.0	17.0	8 19	19 50.90	-22 8.9	0.829	1.776	16.9	16.2
8 29	19 36.49	-49 21.1	2.546	3.246	14.6	17.1	8 29	19 49.83	-22 19.0	0.875	1.768	21.8	16.5
41235	1999 <i>XB</i> ₂₄		7 22.8 232°00	6°0/26.4	18		383606	2007 <i>HP</i> ₈₃		7 22.8 32°29	4°3/24.5	17	
6 20	20 29.95	-0 41.9	2.495	3.304	12.3	19.0	6 20	20 32.78	-10 13.1	1.458	2.331	16.2	20.8
6 30	20 24.99	-0 11.3	2.414	3.299	10.2	18.9	6 30	20 27.74	-9 50.9	1.400	2.338	12.4	20.6
7 10	20 18.60	+0 5.2	2.355	3.294	8.0	18.7	7 10	20 20.46	-9 43.1	1.362	2.345	8.4	20.4
7 20	20 11.29	+0 6.8	2.320	3.289	6.4	18.6	7 20	20 11.74	-9 49.2	1.347	2.352	4.9	20.2
7 30	20 3.70	-0 6.2	2.313	3.284	6.1	18.6	7 30	20 2.73	-10 7.1	1.357	2.360	5.1	20.3
8 9	19 56.54	-0 32.1	2.332	3.279	7.5	18.7	8 9	19 54.65	-10 33.1	1.392	2.368	8.6	20.5
8 19	19 50.43	-1 7.9	2.376	3.274	9.6	18.8	8 19	19 48.46	-11 3.4	1.450	2.377	12.5	20.7
8 29	19 45.93	-1 50.2	2.444	3.268	11.8	18.9	8 29	19 44.89	-11 34.2	1.528	2.386	16.0	21.0
255232	2005 <i>UF</i> ₄₃₈		7 22.8 297°28	1°9/23.7	18		388672	2007 <i>TW</i> ₄₁₈		7 22.8 289°43	0°2/22.9	18	
6 20	20 31.11	-14 20.0	2.077	2.946	12.2	20.2	6 20	20 33.14	-18 53.5	1.871	2.751	12.9	21.0
6 30	20 26.21	-14 16.7	1.987	2.927	9.2	19.9	6 30	20 27.81	-19 0.8	1.794	2.743	9.4	20.8
7 10	20 19.49	-14 21.4	1.919	2.908	5.7	19.7	7 10	20 20.46	-19 13.6	1.739	2.734	5.5	20.5
7 20	20 11.52	-14 32.7	1.878	2.889	2.4	19.4	7 20	20 11.75	-19 29.1	1.711	2.726	1.3	20.2
7 30	20 3.10	-14 48.7	1.863	2.870	3.2	19.5	7 30	20 2.65	-19 44.4	1.709	2.717	3.1	20.3
8 9	19 55.15	-15 7.0	1.876	2.852	6.8	19.7	8 9	19 54.19	-19 56.9	1.733	2.709	7.3	20.6
8 19	19 48.51	-15 25.4	1.914	2.833	10.4	19.8	8 19	19 47.32	-20 5.1	1.783	2.700	11.2	20.8
8 29	19 43.87	-15 41.9	1.974	2.814	13.6	20.0	8 29	19 42.73	-20 8.1	1.854	2.692	14.5	21.0
59773	1999 <i>NZ</i> ₂₁		7 22.8 346°13	0°9/22.3	18		386609	2009 <i>HF</i> ₇₃		7 22.8 19°09	20°4/20.1	17	
6 20	20 31.19	-21 18.2	1.751	2.641	13.1	18.9	6 20	21 3.24	-57 29.0	0.965	1.811	24.6	19.9
6 30	20 26.49	-21 37.1	1.681	2.635	9.5	18.7	6 30	20 53.39	-58 47.3	0.931	1.812	22.5	19.7
7 10	20 19.71	-22 0.3	1.633	2.630	5.5	18.4	7 10	20 36.42	-59 24.8	0.912	1.814	21.0	19.6
7 20	20 11.57	-22 24.2	1.611	2.626	1.4	18.1	7 20	20 15.22	-59 3.0	0.908	1.817	20.4	19.6
7 30	20 3.05	-22 45.0	1.615	2.622	3.5	18.3	7 30	19 54.52	-57 33.9	0.920	1.820	21.0	19.6
8 9	19 55.27	-23 0.0	1.644	2.618	7.7	18.5	8 9	19 38.54	-55 6.0	0.949	1.823	22.5	19.8
8 19	19 49.15	-23 7.6	1.697	2.616	11.6	18.7	8 19	19 29.17	-51 57.9	0.993	1.827	24.6	19.9
8 29	19 45.41	-23 7.4	1.772	2.613	14.9	19.0	8 29	19 26.42	-48 29.2	1.053	1.831	26.8	20.1
420408	2012 <i>DN</i> ₅		7 22.8 92°21	1°4/22.2	17		51416	2001 <i>EX</i> ₁₅		7 22.8 352°46	1°6/21.8	18	
6 20	20 37.46	-21 42.0	1.465	2.354	15.2	21.4	6 20	20 24.68	-18 26.2	1.135	2.051	16.6	17.0
6 30	20 31.19	-22 14.8	1.414	2.368	11.0	21.2	6 30	20 22.63	-19 45.5	1.071	2.039	12.1	16.7
7 10	20 22.43	-22 51.9	1.385	2.382	6.3	21.0	7 10	20 17.90	-21 20.4	1.028	2.030	7.0	16.4
7 20	20 12.15	-23 28.0	1.381	2.396	1.8	20.7	7 20	20 11.24	-23 3.0	1.007	2.022	1.9	16.1
7 30	20 1.64	-23 57.9	1.403	2.410	4.2	20.9	7 30	20 3.95	-24 42.9	1.008	2.016	5.0	16.3
8 9	19 52.26	-24 18.4	1.451	2.423	8.8	21.2	8 9	19 57.53	-26 10.5	1.032	2.012	10.4	16.6
8 19	19 45.08	-24 28.4	1.521	2.436	12.9	21.5	8 19	19 53.31	-27 19.5	1.077	2.010	15.3	16.8
8 29	19 40.79	-24 28.6	1.613	2.449	16.4	21.8	8 29	19 52.24	-28 7.3	1.140	2.010	19.5	17.1
88040	2000 <i>UU</i> ₁₀₀		7 22.8 286°04	5°6/19.4	18		391990	2008 <i>YG</i> ₂₇		7 22.8 228°36	0°8/22.2	18	
6 20	20 34.69	-34 58.6	2.179	3.057	11.4	19.3	6 20	20 33.32	-19 28.1	2.323	3.194	11.0	21.4
6 30	20 28.88	-35 54.0	2.116	3.055	8.8	19.2	6 30	20 27.73	-20 24.3	2.237	3.183	8.0	21.2
7 10	20 21.03	-36 43.3	2.077	3.053	6.5	19.0	7 10	20 20.36	-21 27.1	2.176	3.171	4.6	21.0
7 20	20 11.85	-37 21.2	2.064	3.051	5.6	18.9	7 20	20 11.74	-22 32.3	2.143	3.158	1.2	20.7
7 30	20 2.33	-37 43.1	2.078	3.049	6.8	19.0	7 30	20 2.66	-23 35.4	2.139	3.145	3.1	20.9
8 9	19 53.56	-37 47.5	2.117	3.047	9.1	19.2	8 9	19 54.01	-24 32.3	2.164	3.131	6.7	21.1
8 19	19 46.45	-37 35.1	2.180	3.045	11.7	19.3	8 19	19 46.59	-25 20.3	2.215	3.117	10.0	21.2
8 29	19 41.67	-37 8.4	2.264	3.043	14.1	19.5	8 29	19 41.10	-25 58.1	2.290	3.102	12.9	21.4
370693	2004 <i>HA</i> ₃₃		7 22.8 101°35	1°3/22.1	17		187364	2005 <i>UR</i> ₂₆₆		7 22.8 171°33	4°1/25.4	18	
6 20	20 35.91	-20 30.7	1.632	2.517	14.2	20.8	6 20	20 30.04	-6 11.1	2.463	3.297	11.7	20.5
6 30	20 29.90	-21 19.5	1.579	2.531	10.2	20.6	6 30	20 25.05	-6 1.9	2.387	3.298	9.2	20.3
7 10	20 21.64	-22 13.9	1.549	2.545	5.9	20.3	7 10	20 18.65	-6 4.4	2.334	3.299	6.6	20.1
7 20	20 11.98	-23 8.6	1.544	2.559	1.6	20.1	7 20	20 11.34	-6 18.2	2.307	3.300	4.5	20.0
7 30	20 2.06	-23 57.8	1.566	2.572	3.9	20.3	7 30	20 3.79	-6 42.2	2.308	3.301	4.4	20.0
8 9	19 53.09	-24 37.6	1.615	2.586	8.2	20.6	8 9	19 56.71	-7 13.9	2.336	3.301	6.4	20.1
8 19	19 46.06	-25 6.1	1.687	2.599	12.1	20.8	8 19	19 50.73	-7 50.4	2.390	3.302	9.0	20.3
8 29	19 41.64	-25 23.2	1.781	2.611	15.3	21.1	8 29	19 46.38	-8 28.9	2.469	3.302	11.5	20.5
225781	2001 <i>TT</i> ₁₅₅		7 22.8 284°34	0°9/23.2	18		80931	2000 <i>DX</i> ₇₆		7 22.8 349°37	1°9/23.5	18	
6 20	20 33.88	-16 35.9	1.625	2.506	14.4	21.8	6 20	20 29.03	-15 22.8	1.111	2.017	17.7	18.0
6 30	20 28.76	-16 48.7	1.537	2.486	10.7	21.5	6 30	20 25.76	-15 26.2	1.048	2.008	13.2	17.7
7 10	20 21.23	-17 10.9	1.471	2.465	6.4	21.2	7 10	20 19.67	-15 43.3	1.003	2.000	8.1	17.4
7 20	20 11.95	-17 39.7	1.430	2.444	1.8	20.8	7 20	20 11.63	-16 11.4	0.980	1.994	2.8	17.0
7 30	20 1.99	-18 11.3	1.414	2.423	3.5	20.9	7 30	20 3.01	-16 45.8	0.979	1.989	4.3	17.1
8 9	19 52.60	-18 41.8	1.424	2.402	8.4	21.1	8 9	19 55.38	-17 21.1	1.000	1.985	9.8	17.4
8 19	19 44.96	-19 8.1	1.458	2.381	12.9	21.4	8 19	19 50.06	-17 52.9	1.042	1.983	14.9	17.7
8 29	19 39.95	-19 28.3	1.513	2.359	16.8	21.6	8 29	19 47.95	-18 17.9	1.102	1.982	19.3	18.0
16871	1998 <i>BD</i>		7 22.8 305°48	4°6/20.8	18		158340	2001 <i>XH</i> ₂₁		7 22.8 140°			

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7 22.8

7 22.8

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
152747	1998 YK ₁₅		7 22.8 205°05	0°3/22.6	18		292109	2006 RJ ₅₆		7 22.8 68°60	0°9/23.3	18	
6 20	20 35.90	-19 34.4	2.028	2.901	12.3	22.0	6 20	20 31.76	-16 10.0	2.007	2.881	12.4	20.6
6 30	20 29.70	-19 55.8	1.951	2.897	9.0	21.8	6 30	20 26.62	-16 26.8	1.939	2.884	9.1	20.3
7 10	20 21.51	-20 22.2	1.897	2.892	5.2	21.5	7 10	20 19.69	-16 51.2	1.893	2.886	5.4	20.1
7 20	20 12.00	-20 50.3	1.871	2.886	1.1	21.2	7 20	20 11.61	-17 20.5	1.874	2.888	1.6	19.9
7 30	20 2.10	-21 16.6	1.872	2.879	3.1	21.4	7 30	20 3.25	-17 51.7	1.882	2.890	2.9	20.0
8 9	19 52.83	-21 38.2	1.901	2.872	7.1	21.6	8 9	19 55.52	-18 21.7	1.917	2.893	6.7	20.2
8 19	19 45.10	-21 53.7	1.955	2.865	10.8	21.8	8 19	19 49.23	-18 48.2	1.977	2.895	10.2	20.4
8 29	19 39.59	-22 2.3	2.032	2.856	13.9	22.0	8 29	19 45.00	-19 9.4	2.060	2.898	13.3	20.7
426352	2013 LX ₂₃		7 22.8 320°44	3°3/21.2	17		308830	2006 RY ₁₉		7 22.8 45°80	0°7/23.2	18	
6 20	20 32.55	-22 48.9	1.159	2.069	16.8	20.1	6 20	20 32.22	-16 54.5	1.966	2.841	12.5	20.6
6 30	20 28.57	-24 0.1	1.092	2.056	12.4	19.8	6 30	20 26.99	-17 8.0	1.896	2.842	9.2	20.4
7 10	20 21.47	-25 20.6	1.045	2.044	7.4	19.5	7 10	20 19.92	-17 28.5	1.850	2.843	5.4	20.1
7 20	20 12.07	-26 41.7	1.020	2.033	3.4	19.2	7 20	20 11.67	-17 53.4	1.830	2.844	1.5	19.9
7 30	20 1.84	-27 53.6	1.019	2.022	6.2	19.4	7 30	20 3.11	-18 19.6	1.837	2.845	2.9	20.0
8 9	19 52.56	-28 48.5	1.040	2.011	11.5	19.6	8 9	19 55.21	-18 44.2	1.871	2.846	6.8	20.2
8 19	19 45.76	-29 23.1	1.081	2.002	16.4	19.9	8 19	19 48.80	-19 5.2	1.930	2.848	10.4	20.5
8 29	19 42.52	-29 37.8	1.140	1.993	20.7	20.1	8 29	19 44.50	-19 21.1	2.011	2.849	13.5	20.7
430564	2002 PW ₃₂		7 22.8 348°06	3°5/24.7	18		371377	2006 QD ₁₀₈		7 22.8 305°45	0°8/23.1	15	
6 20	20 26.87	-9 20.4	1.330	2.215	16.7	20.0	6 20	20 33.66	-17 45.1	1.300	2.196	16.3	21.5
6 30	20 23.83	-9 50.3	1.259	2.205	12.9	19.8	6 30	20 29.18	-17 48.6	1.214	2.170	12.2	21.1
7 10	20 18.42	-10 41.1	1.209	2.196	8.5	19.5	7 10	20 21.78	-18 1.6	1.148	2.145	7.3	20.8
7 20	20 11.36	-11 50.3	1.180	2.189	4.3	19.2	7 20	20 12.18	-18 21.0	1.104	2.119	1.9	20.4
7 30	20 3.74	-13 12.4	1.175	2.182	4.5	19.2	7 30	20 1.65	-18 42.9	1.085	2.094	4.1	20.5
8 9	19 56.86	-14 39.7	1.194	2.177	8.8	19.5	8 9	19 51.78	-19 3.0	1.089	2.070	9.8	20.7
8 19	19 51.84	-16 4.7	1.235	2.173	13.3	19.7	8 19	19 44.04	-19 18.4	1.115	2.046	15.1	20.9
8 29	19 49.54	-17 21.4	1.297	2.171	17.4	20.0	8 29	19 39.54	-19 27.3	1.159	2.022	19.7	21.1
178532	1999 TE ₃₀₆		7 22.8 227°60	0°8/23.2	18		445470	2010 VG ₈₄		7 22.8 309°62	2°0/23.8	16	
6 20	20 36.27	-16 39.5	1.866	2.737	13.3	21.7	6 20	20 30.48	-14 1.2	2.085	2.954	12.2	21.3
6 30	20 30.17	-16 55.2	1.782	2.726	9.9	21.5	6 30	20 25.72	-13 58.2	2.001	2.941	9.2	21.1
7 10	20 21.89	-17 18.9	1.722	2.714	5.9	21.2	7 10	20 19.22	-14 3.4	1.940	2.928	5.7	20.8
7 20	20 12.11	-17 47.6	1.688	2.702	1.6	20.9	7 20	20 11.53	-14 15.5	1.905	2.916	2.5	20.6
7 30	20 1.81	-18 17.9	1.681	2.689	3.2	21.0	7 30	20 3.46	-14 32.5	1.897	2.904	3.2	20.6
8 9	19 52.12	-18 46.4	1.701	2.675	7.5	21.2	8 9	19 55.91	-14 51.9	1.916	2.892	6.7	20.8
8 19	19 44.03	-19 10.7	1.747	2.661	11.6	21.4	8 19	19 49.66	-15 11.5	1.960	2.881	10.2	21.0
8 29	19 38.34	-19 29.3	1.815	2.646	15.0	21.6	8 29	19 45.38	-15 29.3	2.027	2.869	13.3	21.2
358836	2008 FW ₁₈		7 22.8 83°32	2°1/21.7	18		352522	2008 CP ₁₂₇		7 22.8 63°72	0°7/23.2	16	
6 20	20 33.33	-25 10.3	2.144	3.026	11.4	21.5	6 20	20 31.81	-16 49.7	1.997	2.872	12.4	21.5
6 30	20 27.37	-25 36.9	2.083	3.033	8.3	21.3	6 30	20 26.57	-17 8.5	1.939	2.885	9.0	21.3
7 10	20 20.24	-26 3.9	2.046	3.040	4.9	21.1	7 10	20 19.62	-17 34.2	1.904	2.898	5.3	21.1
7 20	20 11.71	-26 27.3	2.035	3.047	2.2	20.9	7 20	20 11.59	-18 3.9	1.896	2.911	1.4	20.9
7 30	20 2.96	-26 44.2	2.052	3.054	3.8	21.0	7 30	20 3.38	-18 34.4	1.915	2.924	2.8	21.0
8 9	19 54.93	-26 52.5	2.096	3.061	7.1	21.3	8 9	19 55.88	-19 2.8	1.961	2.937	6.6	21.3
8 19	19 48.40	-26 51.7	2.166	3.068	10.2	21.5	8 19	19 49.86	-19 27.0	2.032	2.950	10.0	21.5
8 29	19 43.96	-26 42.7	2.257	3.075	12.9	21.7	8 29	19 45.88	-19 45.7	2.126	2.963	12.9	21.8
342394	2008 UR ₄₈		7 22.8 88°06	2°1/23.7	18		438526	2007 TT ₃₄		7 22.8 291°33	5°4/25.5	18	
6 20	20 33.76	-14 9.9	1.809	2.680	13.7	20.2	6 20	20 30.93	-5 25.7	1.867	2.712	14.4	21.3
6 30	20 28.15	-14 4.3	1.745	2.686	10.2	20.0	6 30	20 26.24	-5 8.0	1.780	2.697	11.5	21.1
7 10	20 20.59	-14 7.6	1.703	2.692	6.3	19.8	7 10	20 19.61	-5 5.7	1.715	2.681	8.4	20.9
7 20	20 11.80	-14 18.3	1.686	2.697	2.7	19.6	7 20	20 11.64	-5 19.6	1.674	2.666	5.9	20.7
7 30	20 2.74	-14 33.8	1.696	2.703	3.5	19.6	7 30	20 3.17	-5 48.3	1.658	2.651	5.8	20.7
8 9	19 54.45	-14 51.6	1.733	2.709	7.3	19.9	8 9	19 55.20	-6 29.0	1.669	2.636	8.3	20.8
8 19	19 47.79	-15 9.3	1.795	2.715	10.9	20.1	8 19	19 48.63	-7 17.5	1.703	2.621	11.6	21.0
8 29	19 43.40	-15 24.9	1.878	2.721	14.1	20.3	8 29	19 44.20	-8 9.3	1.760	2.607	14.8	21.1
38913	2000 SY ₁₈₄		7 22.8 282°25	9°2/17.5	18		94169	2001 AB ₂₆		7 22.8 234°63	6°2/19.0	18	
6 20	20 39.47	-40 43.3	1.714	2.588	14.1	19.1	6 20	20 36.49	-33 35.1	1.860	2.744	12.8	18.5
6 30	20 33.30	-42 6.6	1.646	2.572	11.7	18.9	6 30	20 30.60	-34 54.2	1.796	2.739	9.8	18.3
7 10	20 24.06	-43 19.6	1.599	2.556	9.7	18.8	7 10	20 22.26	-36 9.1	1.756	2.734	7.2	18.1
7 20	20 12.64	-44 12.8	1.577	2.540	9.3	18.7	7 20	20 12.23	-37 12.0	1.740	2.729	6.2	18.1
7 30	20 0.47	-44 38.8	1.578	2.524	10.6	18.8	7 30	20 1.67	-37 56.5	1.752	2.724	7.7	18.1
8 9	19 49.26	-44 35.2	1.602	2.507	13.1	18.9	8 9	19 51.91	-38 19.7	1.788	2.719	10.5	18.3
8 19	19 40.46	-44 4.3	1.648	2.491	15.9	19.0	8 19	19 44.08	-38 21.9	1.847	2.713	13.4	18.5
8 29	19 35.07	-43 11.7	1.711	2.475	18.5	19.2	8 29	19 38.99	-38 6.1	1.925	2.707	16.1	18.7
250065	2002 EB ₆₂		7 22.8 161°50	3°8/25.3	18		444686	2007 DP ₁₁₃		7 22.8 76°17	3°3/21.0	18	
6 20	20 29.79	-6 48.6	2.371	3.210	11.9	20.7	6 20	20 33.98	-29 36.8	2.296	3.176	10.8	21.0
6 30	20 24.93	-6 51.0	2.296	3.212	9.3	20.6	6 30	20 28.10	-30 2.1	2.234	3.181	8.0	20.8
7 10	20 18.61	-7 5.7	2.244	3.213	6.5	20.4	7 10	20 20.48	-30 24.4	2.197	3.186	5.1	20.7
7 20	20 11.36	-7 31.9	2.218	3.214	4.2	20.2	7 20	20 11.79	-30 39.8	2.186	3.191	3.3	20.5
7 30	20 3.84	-8 7.7	2.219	3.215	4.1	20.2	7 30	20 2.90	-30 45.5	2.203	3.196	4.6	20.6
8 9	19 56.81	-8 50.3	2.248	3.216	6.4	20.4	8 9	19 54.73	-30 40.2	2.247	3.201	7.3	20.8
8 19	19 50.92	-9 36.3	2.303	3.217	9.1	20.6	8 19	19 48.05	-30 24.4	2.316	3.206	10.1	21.0
8 29	19 46.70	-10 22.6	2.381	3.218	11.7	20.7	8 29	19 43.43	-29 59.5	2.408	3.211	12.6	21.2
83593	2001 SB ₂₅₃		7 22.8 44°59	0°9/22.3	18		93968	2000 XO ₅		7 22.8 200°18	2°6/23.7	18	
6 20	20 32.12	-20 46.4</											

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
463422	2013 <i>JG</i> ₁₃		7 22.8	23°64'	3°2'/21.3	17	429200	2009 <i>WP</i> ₁₂₂		7 22.8	58°37'	4°5'/24.7	17
6 20	20 32.07	-22 11.3	1.008	1.924	18.1	19.6	6 20	20 34.13	-9 19.1	1.506	2.372	16.2	20.5
6 30	20 28.19	-23 27.2	0.963	1.931	13.1	19.3	6 30	20 28.64	-8 56.8	1.452	2.386	12.4	20.3
7 10	20 21.14	-24 51.1	0.938	1.939	7.7	19.0	7 10	20 20.97	-8 49.4	1.420	2.399	8.4	20.1
7 20	20 11.99	-26 13.3	0.934	1.948	3.3	18.8	7 20	20 11.97	-8 56.3	1.410	2.413	5.1	20.0
7 30	20 2.41	-27 23.4	0.953	1.957	6.2	19.0	7 30	20 2.76	-9 15.4	1.426	2.427	5.2	20.0
8 9	19 54.20	-28 14.6	0.993	1.968	11.4	19.4	8 9	19 54.50	-9 43.0	1.467	2.441	8.5	20.3
8 19	19 48.72	-28 44.7	1.054	1.980	16.2	19.7	8 19	19 48.13	-10 15.2	1.532	2.456	12.2	20.5
8 29	19 46.82	-28 54.9	1.131	1.992	20.2	20.0	8 29	19 44.31	-10 48.1	1.617	2.470	15.5	20.8
463451	2013 <i>OB</i> ₅		7 22.8	32°71'	1°4'/22.2	17	514388	2016 <i>SF</i> ₁₁		7 22.8	273°12'	4°2'/25.0	18
6 20	20 33.93	-20 20.0	1.162	2.067	17.2	21.0	6 20	20 31.52	-7 40.6	1.963	2.813	13.6	21.9
6 30	20 29.19	-21 2.2	1.112	2.074	12.5	20.8	6 30	20 26.62	-7 36.1	1.875	2.798	10.7	21.7
7 10	20 21.57	-21 52.7	1.083	2.082	7.2	20.5	7 10	20 19.84	-7 45.3	1.810	2.783	7.5	21.4
7 20	20 12.09	-22 44.8	1.075	2.090	1.9	20.2	7 20	20 11.75	-8 8.1	1.769	2.769	4.7	21.3
7 30	20 2.24	-23 31.5	1.092	2.099	4.7	20.4	7 30	20 3.19	-8 42.5	1.755	2.754	4.7	21.2
8 9	19 53.62	-24 7.5	1.131	2.109	9.9	20.7	8 9	19 55.11	-9 25.4	1.767	2.739	7.5	21.4
8 19	19 47.48	-24 30.4	1.192	2.119	14.7	21.0	8 19	19 48.38	-10 12.8	1.804	2.724	11.0	21.5
8 29	19 44.60	-24 40.3	1.271	2.130	18.6	21.3	8 29	19 43.72	-11 1.0	1.864	2.708	14.2	21.7
267735	2003 <i>FP</i> ₆₉		7 22.8	129°29'	0°7'/23.2	17	478808	2012 <i>UM</i> ₁₇₄		7 22.8	332°65'	15°6'/5.6	18
6 20	20 34.74	-15 45.6	1.924	2.794	13.0	21.5	6 20	20 29.84	-40 6.3	1.072	1.983	17.8	18.5
6 30	20 28.80	-16 19.9	1.863	2.806	9.5	21.3	6 30	20 28.60	-44 55.8	0.998	1.939	15.9	18.2
7 10	20 20.96	-17 2.8	1.825	2.817	5.6	21.1	7 10	20 23.01	-49 56.1	0.949	1.896	15.8	18.0
7 20	20 11.93	-17 50.8	1.814	2.829	1.5	20.9	7 20	20 12.88	-54 39.5	0.923	1.854	17.9	18.0
7 30	20 2.63	-18 39.5	1.831	2.839	3.0	21.0	7 30	19 59.27	-58 37.3	0.920	1.814	21.4	18.1
8 9	19 54.08	-19 25.2	1.875	2.849	6.9	21.3	8 9	19 44.90	-61 31.7	0.934	1.776	25.3	18.2
8 19	19 47.11	-20 5.0	1.945	2.859	10.6	21.5	8 19	19 33.53	-63 19.7	0.961	1.740	28.9	18.3
8 29	19 42.34	-20 37.3	2.037	2.868	13.6	21.7	8 29	19 28.76	-64 9.7	0.996	1.707	31.9	18.4
124261	2001 <i>QP</i> ₁₂		7 22.8	347°66'	2°9'/22.0	18	440236	2004 <i>QK</i> ₂₀		7 22.8	353°92'	10°8'/24.5	17
6 20	20 32.94	-24 49.4	0.936	1.857	18.7	18.7	6 20	20 33.40	-0 37.8	1.516	2.350	17.7	19.1
6 30	20 29.21	-25 1.4	0.879	1.848	13.8	18.3	6 30	20 28.29	+1 33.7	1.447	2.342	15.1	18.9
7 10	20 21.94	-25 15.2	0.840	1.841	8.2	18.0	7 10	20 20.92	+3 29.3	1.400	2.336	12.6	18.7
7 20	20 12.23	-25 24.4	0.821	1.835	3.2	17.7	7 20	20 12.00	+5 2.6	1.374	2.331	11.0	18.6
7 30	20 1.89	-25 23.1	0.823	1.830	5.9	17.9	7 30	20 2.63	+6 8.6	1.372	2.327	11.1	18.6
8 9	19 52.93	-25 8.4	0.845	1.826	11.8	18.2	8 9	19 53.99	+6 46.3	1.393	2.324	12.8	18.7
8 19	19 46.96	-24 41.0	0.886	1.824	17.2	18.5	8 19	19 47.13	+6 58.1	1.435	2.323	15.3	18.9
8 29	19 44.92	-24 3.3	0.944	1.823	21.8	18.7	8 29	19 42.84	+6 49.3	1.495	2.324	17.8	19.0
80005	1999 <i>FK</i> ₅₅		7 22.8	134°57'	5°6'/26.8	18	220378	2003 <i>QQ</i>		7 22.8	313°77'	1°8'/22.0	18
6 20	20 30.71	-0 47.2	2.366	3.177	12.8	20.2	6 20	20 34.27	-25 43.7	2.292	3.170	10.9	20.0
6 30	20 25.58	-0 46.5	2.297	3.186	10.5	20.1	6 30	20 28.32	-25 46.0	2.220	3.168	7.9	19.8
7 10	20 18.99	-1 1.9	2.249	3.194	8.0	19.9	7 10	20 20.65	-25 47.3	2.172	3.165	4.7	19.6
7 20	20 11.50	-1 33.1	2.226	3.203	6.0	19.8	7 20	20 11.91	-25 44.8	2.151	3.163	1.9	19.4
7 30	20 3.78	-2 18.6	2.231	3.211	5.7	19.8	7 30	20 2.94	-25 36.4	2.158	3.161	3.4	19.5
8 9	19 56.58	-3 14.9	2.262	3.219	7.2	19.9	8 9	19 54.64	-25 21.1	2.192	3.158	6.7	19.7
8 19	19 50.53	-4 18.0	2.320	3.226	9.5	20.1	8 19	19 47.76	-24 59.1	2.253	3.156	9.8	19.9
8 29	19 46.16	-5 23.7	2.402	3.233	11.8	20.3	8 29	19 42.89	-24 31.5	2.336	3.154	12.5	20.1
254407	2004 <i>TL</i> ₃₂₄		7 22.8	178°10'	6°3'/18.4	18	518195	2016 <i>PU</i> ₆₆		7 22.8	265°25'	0°7'/22.5	18
6 20	20 36.26	-40 41.3	2.682	3.540	10.1	20.8	6 20	20 33.84	-19 43.0	1.869	2.749	12.9	22.1
6 30	20 29.82	-41 35.5	2.623	3.541	8.2	20.7	6 30	20 28.51	-20 17.4	1.784	2.734	9.4	21.9
7 10	20 21.54	-42 20.9	2.589	3.541	6.7	20.6	7 10	20 21.04	-20 58.5	1.722	2.718	5.5	21.6
7 20	20 12.07	-42 52.5	2.581	3.542	6.3	20.6	7 20	20 12.05	-21 42.4	1.686	2.701	1.3	21.3
7 30	20 2.33	-43 7.1	2.600	3.542	7.1	20.6	7 30	20 2.49	-22 24.5	1.678	2.685	3.4	21.4
8 9	19 53.29	-43 3.6	2.644	3.542	8.8	20.8	8 9	19 53.49	-23 0.9	1.696	2.668	7.7	21.6
8 19	19 45.77	-42 43.3	2.712	3.541	10.7	20.9	8 19	19 46.05	-23 29.0	1.739	2.651	11.7	21.8
8 29	19 40.38	-42 9.0	2.802	3.541	12.5	21.0	8 29	19 40.97	-23 48.0	1.803	2.634	15.1	22.0
31286	1998 <i>FD</i> ₅₄		7 22.8	166°11'	4°3'/25.6	18	211254	2002 <i>QV</i> ₁₂₃		7 22.8	281°87'	0°7'/23.2	18
6 20	20 30.41	-5 18.6	2.364	3.196	12.2	18.9	6 20	20 32.24	-16 46.1	1.887	2.764	12.9	20.8
6 30	20 25.40	-5 16.3	2.289	3.199	9.6	18.8	6 30	20 27.22	-17 6.2	1.807	2.754	9.5	20.6
7 10	20 18.92	-5 27.1	2.237	3.200	6.9	18.6	7 10	20 20.22	-17 34.4	1.751	2.744	5.6	20.4
7 20	20 11.49	-5 50.5	2.210	3.202	4.8	18.5	7 20	20 11.85	-18 7.9	1.719	2.734	1.5	20.1
7 30	20 3.80	-6 24.9	2.211	3.203	4.6	18.5	7 30	20 3.03	-18 43.1	1.715	2.724	3.0	20.2
8 9	19 56.60	-7 7.4	2.239	3.205	6.6	18.6	8 9	19 54.81	-19 16.5	1.738	2.714	7.2	20.4
8 19	19 50.54	-7 54.6	2.293	3.206	9.3	18.7	8 19	19 48.08	-19 45.3	1.785	2.704	11.1	20.6
8 29	19 46.17	-8 43.2	2.371	3.207	11.8	18.9	8 29	19 43.58	-20 8.0	1.854	2.694	14.4	20.8
263399	2008 <i>DO</i> ₁₆		7 22.8	40°92'	4°4'/25.7	18	287948	2003 <i>UN</i> ₉₁		7 22.8	296°82'	3°2'/21.1	18
6 20	20 29.46	-5 44.7	2.031	2.875	13.4	20.5	6 20	20 33.50	-25 35.8	1.734	2.625	13.1	20.4
6 30	20 24.90	-5 53.0	1.963	2.881	10.6	20.3	6 30	20 28.44	-26 29.4	1.660	2.614	9.7	20.1
7 10	20 18.70	-6 16.6	1.917	2.886	7.5	20.2	7 10	20 21.06	-27 25.6	1.609	2.603	5.9	19.9
7 20	20 11.45	-6 54.5	1.896	2.892	4.9	20.0	7 20	20 12.06	-28 18.4	1.582	2.592	3.2	19.7
7 30	20 3.94	-7 44.1	1.902	2.898	4.7	20.0	7 30	20 2.51	-29 2.0	1.583	2.581	5.2	19.8
8 9	19 57.01	-8 41.4	1.934	2.905	7.1	20.2	8 9	19 53.66	-29 32.3	1.608	2.571	9.0	20.0
8 19	19 51.39	-9 42.1	1.991	2.911	10.1	20.4	8 19	19 46.59	-29 48.0	1.658	2.560	12.8	20.2
8 29	19 47.66	-10 42.1	2.072	2.918	12.9	20.6	8 29	19 42.12	-29 49.8	1.727	2.550	16.0	20.4
508414	2016 <i>JW</i> ₉		7 22.8	43°94'	2°5'/21.6	17	161810	2006 <i>VO</i> ₁₄₇		7 22.8	3		

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
437756	2014 <i>FM</i> ₆₈		7 22.8 192°12	4°1/19.8	18		389220	2009 <i>DX</i> ₁₁₆		7 22.8 288°60	3°8/21.1	18	
6 20	20 34.26	-29 31.1	2.269	3.148	10.9	20.8	6 20	20 35.74	-29 26.7	1.925	2.809	12.4	21.0
6 30	20 28.56	-30 46.7	2.202	3.147	8.1	20.6	6 30	20 29.82	-29 55.7	1.855	2.803	9.2	20.8
7 10	20 20.94	-32 1.4	2.160	3.146	5.5	20.4	7 10	20 21.74	-30 21.8	1.808	2.798	5.9	20.6
7 20	20 12.02	-33 9.3	2.145	3.144	4.1	20.3	7 20	20 12.25	-30 40.3	1.787	2.792	3.8	20.4
7 30	20 2.68	-34 5.2	2.159	3.142	5.5	20.4	7 30	20 2.39	-30 47.1	1.793	2.787	5.3	20.5
8 9	19 53.92	-34 46.0	2.200	3.140	8.3	20.6	8 9	19 53.33	-30 40.7	1.824	2.781	8.5	20.7
8 19	19 46.60	-35 10.7	2.265	3.138	11.0	20.7	8 19	19 46.03	-30 21.5	1.881	2.776	11.9	20.9
8 29	19 41.43	-35 20.6	2.352	3.135	13.5	20.9	8 29	19 41.20	-29 51.5	1.958	2.771	14.8	21.1
133344	2003 <i>SK</i> ₁₀₇		7 22.8 321°82	10°1/27.4	18		117268	2004 <i>TK</i> ₅₂		7 22.8 217°96	6°4/27.4	18	
6 20	20 30.09	+ 3 25.5	1.637	2.452	17.5	19.3	6 20	20 29.37	+ 3 36.9	2.906	3.682	11.5	20.0
6 30	20 25.86	+ 4 20.8	1.560	2.440	15.0	19.1	6 30	20 24.51	+ 4 4.5	2.819	3.675	9.8	19.8
7 10	20 19.53	+ 4 53.4	1.501	2.429	12.5	19.0	7 10	20 18.41	+ 4 17.7	2.755	3.668	8.1	19.7
7 20	20 11.73	+ 4 59.8	1.463	2.418	10.6	18.8	7 20	20 11.49	+ 4 15.5	2.715	3.661	6.8	19.6
7 30	20 3.42	+ 4 38.7	1.448	2.408	10.1	18.8	7 30	20 4.32	+ 3 58.0	2.702	3.653	6.5	19.6
8 9	19 55.69	+ 3 52.7	1.456	2.398	11.5	18.8	8 9	19 57.48	+ 3 26.8	2.716	3.646	7.4	19.6
8 19	19 49.51	+ 2 47.1	1.485	2.389	13.9	18.9	8 19	19 51.53	+ 2 44.5	2.755	3.637	9.0	19.7
8 29	19 45.67	+ 1 29.2	1.535	2.380	16.6	19.1	8 29	19 46.95	+ 1 54.6	2.818	3.629	10.8	19.8
117290	2004 <i>TW</i> ₂₄₇		7 22.8 209°81	2°4/24.4	18		308331	2005 <i>NZ</i> ₆₁		7 22.8 299°22	0°2/22.8	18	
6 20	20 32.56	-10 11.1	2.132	2.984	12.6	20.3	6 20	20 31.39	-18 39.8	1.948	2.829	12.4	20.6
6 30	20 27.23	-10 46.2	2.050	2.979	9.6	20.1	6 30	20 26.65	-19 7.3	1.863	2.813	9.1	20.4
7 10	20 20.14	-11 34.4	1.992	2.974	6.2	19.8	7 10	20 19.95	-19 41.7	1.801	2.796	5.3	20.1
7 20	20 11.85	-12 33.3	1.960	2.968	3.0	19.6	7 20	20 11.87	-20 19.9	1.765	2.780	1.2	19.8
7 30	20 3.16	-13 39.0	1.956	2.962	3.3	19.6	7 30	20 3.31	-20 57.8	1.756	2.765	3.1	19.9
8 9	19 54.95	-14 47.2	1.980	2.955	6.6	19.8	8 9	19 55.27	-21 32.0	1.774	2.749	7.2	20.2
8 19	19 48.03	-15 53.5	2.031	2.948	10.1	20.0	8 19	19 48.66	-21 59.9	1.817	2.733	11.0	20.4
8 29	19 43.06	-16 54.6	2.106	2.940	13.1	20.2	8 29	19 44.23	-22 20.2	1.881	2.718	14.4	20.6
131574	2001 <i>VE</i> ₈₆		7 22.8 25°37	8°1/19.8	17		357757	2005 <i>SR</i> ₉₂		7 22.8 156°22	4°5/25.7	18	
6 20	20 38.16	-33 38.4	1.107	2.014	17.7	19.4	6 20	20 30.25	- 5 11.9	2.324	3.157	12.3	21.0
6 30	20 32.81	-34 51.9	1.063	2.018	13.6	19.1	6 30	20 25.35	- 5 4.2	2.250	3.159	9.8	20.8
7 10	20 23.92	-35 57.3	1.037	2.023	9.8	18.9	7 10	20 18.97	- 5 9.6	2.197	3.160	7.1	20.6
7 20	20 12.72	-36 43.6	1.033	2.028	8.1	18.9	7 20	20 11.62	- 5 28.0	2.171	3.162	4.9	20.5
7 30	20 1.10	-37 2.7	1.051	2.034	9.9	19.0	7 30	20 4.02	- 5 57.7	2.171	3.163	4.8	20.5
8 9	19 51.09	-36 52.6	1.090	2.041	13.6	19.2	8 9	19 56.91	- 6 36.1	2.199	3.164	6.7	20.6
8 19	19 44.18	-36 17.2	1.149	2.048	17.5	19.5	8 19	19 50.95	- 7 20.0	2.252	3.165	9.4	20.8
8 29	19 41.19	-35 22.8	1.225	2.055	20.9	19.7	8 29	19 46.70	- 8 5.8	2.329	3.166	12.0	21.0
338500	2003 <i>OO</i> ₁₆		7 22.8 5°67	7°9/25.7	16		84357	2002 <i>TH</i> ₈₂		7 22.8 312°10	4°1/24.2	18	
6 20	20 32.02	- 3 48.6	1.450	2.303	17.4	19.9	6 20	20 33.24	-11 39.8	1.356	2.237	16.7	18.9
6 30	20 27.31	- 2 47.1	1.387	2.303	14.2	19.7	6 30	20 28.59	-11 13.7	1.279	2.223	12.9	18.6
7 10	20 20.36	- 2 4.2	1.343	2.304	10.9	19.5	7 10	20 21.34	-11 0.7	1.223	2.209	8.6	18.3
7 20	20 11.92	- 1 42.5	1.321	2.305	8.4	19.4	7 20	20 12.23	-11 1.0	1.188	2.196	4.7	18.1
7 30	20 3.09	- 1 42.5	1.323	2.307	8.2	19.4	7 30	20 2.47	-11 12.8	1.178	2.183	5.2	18.1
8 9	19 55.08	- 2 1.6	1.348	2.310	10.4	19.5	8 9	19 53.47	-11 33.0	1.191	2.170	9.4	18.3
8 19	19 48.92	- 2 35.2	1.395	2.313	13.6	19.7	8 19	19 46.46	-11 57.9	1.227	2.158	14.0	18.5
8 29	19 45.33	- 3 17.6	1.462	2.317	16.8	19.9	8 29	19 42.37	-12 23.8	1.282	2.146	18.1	18.7
249204	2008 <i>DN</i> ₃₉		7 22.8 238°74	1°9/21.9	17		385541	2004 <i>RF</i> ₁₅₃		7 22.8 314°93	5°1/24.8	16	
6 20	20 38.23	-23 43.0	1.821	2.701	13.2	21.3	6 20	20 31.41	- 8 45.0	1.467	2.337	16.3	20.9
6 30	20 31.81	-24 10.0	1.738	2.687	9.7	21.1	6 30	20 27.11	- 8 20.6	1.385	2.320	12.8	20.6
7 10	20 23.00	-24 39.4	1.678	2.672	5.7	20.8	7 10	20 20.42	- 8 11.7	1.323	2.303	8.9	20.3
7 20	20 12.53	-25 6.7	1.644	2.657	2.1	20.5	7 20	20 12.02	- 8 18.8	1.284	2.286	5.7	20.1
7 30	20 1.48	-25 27.3	1.637	2.641	4.2	20.7	7 30	20 2.98	- 8 40.7	1.269	2.270	5.8	20.1
8 9	19 51.10	-25 38.3	1.657	2.624	8.4	20.9	8 9	19 54.56	- 9 14.0	1.278	2.254	9.3	20.2
8 19	19 42.50	-25 38.9	1.702	2.607	12.3	21.1	8 19	19 47.92	- 9 54.2	1.310	2.239	13.4	20.4
8 29	19 36.53	-25 30.0	1.769	2.590	15.8	21.3	8 29	19 43.95	-10 36.6	1.362	2.225	17.3	20.6
250850	2005 <i>UW</i> ₂₁₆		7 22.8 227°58	6°6/27.1	18		47068	1998 <i>XJ</i> ₆₂		7 22.8 266°39	9°4/27.2	18	
6 20	20 29.68	+ 0 51.9	2.316	3.121	13.3	20.7	6 20	20 32.15	+ 5 38.4	2.138	2.916	15.0	19.2
6 30	20 24.95	+ 1 14.3	2.239	3.120	11.0	20.5	6 30	20 27.02	+ 6 36.6	2.047	2.899	13.1	19.0
7 10	20 18.73	+ 1 20.2	2.183	3.118	8.8	20.4	7 10	20 20.10	+ 7 16.2	1.977	2.882	11.1	18.9
7 20	20 11.53	+ 1 8.6	2.152	3.117	7.0	20.3	7 20	20 11.93	+ 7 34.1	1.930	2.864	9.7	18.7
7 30	20 4.05	+ 0 40.3	2.146	3.116	6.7	20.2	7 30	20 3.25	+ 7 28.6	1.906	2.847	9.4	18.7
8 9	19 57.03	- 0 2.2	2.167	3.114	7.9	20.3	8 9	19 54.97	+ 7 1.0	1.907	2.828	10.5	18.7
8 19	19 51.15	- 0 55.2	2.212	3.113	10.1	20.4	8 19	19 47.90	+ 6 14.6	1.932	2.810	12.4	18.8
8 29	19 46.96	- 1 54.3	2.281	3.111	12.4	20.6	8 29	19 42.74	+ 5 14.8	1.978	2.791	14.6	18.9
352291	2007 <i>TZ</i> ₄₁₃		7 22.8 285°60	0°8/23.3	18		394917	2008 <i>VG</i> ₈₀		7 22.8 240°39	1°7/23.7	18	
6 20	20 31.81	-15 1.4	1.904	2.778	13.0	21.6	6 20	20 33.58	-14 24.9	2.141	3.004	12.1	22.1
6 30	20 27.06	-15 41.4	1.811	2.756	9.7	21.3	6 30	20 28.02	-14 26.8	2.056	2.993	9.1	21.9
7 10	20 20.24	-16 33.0	1.741	2.733	5.8	21.0	7 10	20 20.64	-14 36.6	1.994	2.982	5.6	21.6
7 20	20 11.92	-17 33.0	1.696	2.710	1.7	20.7	7 20	20 12.05	-14 52.6	1.958	2.970	2.3	21.4
7 30	20 2.98	-18 36.9	1.679	2.688	3.1	20.8	7 30	20 3.05	-15 12.7	1.951	2.958	3.0	21.4
8 9	19 54.45	-19 39.7	1.689	2.665	7.4	21.0	8 9	19 54.56	-15 34.2	1.971	2.945	6.6	21.6
8 19	19 47.32	-20 37.0	1.723	2.642	11.5	21.2	8 19	19 47.40	-15 55.0	2.017	2.933	10.2	21.8
8 29	19 42.41	-21 26.2	1.780	2.619	15.0	21.4	8 29	19 42.23	-16 13.3	2.085	2.919	13.3	22.0

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
221011	2005 <i>OJ</i> ₁₃		7 22.8 271°49	6°9/19.8	18		521532	2015 <i>OB</i> ₁₀₀		7 22.9 303°40	0°1/22.8	18	
6 20	20 41.66	-36 8.8	1.740	2.617	13.8	20.3	6 20	20 31.31	-19 3.2	2.176	3.052	11.4	21.3
6 30	20 34.79	-36 55.9	1.658	2.596	10.9	20.1	6 30	20 26.35	-19 18.6	2.098	3.045	8.4	21.1
7 10	20 24.98	-37 35.4	1.599	2.574	8.2	19.8	7 10	20 19.66	-19 38.8	2.044	3.038	4.9	20.9
7 20	20 13.08	-37 59.2	1.564	2.551	6.9	19.7	7 20	20 11.84	-20 1.4	2.016	3.031	1.1	20.6
7 30	20 0.46	-38 1.3	1.555	2.528	8.3	19.7	7 30	20 3.69	-20 23.6	2.016	3.024	2.8	20.7
8 9	19 48.72	-37 39.5	1.570	2.505	11.4	19.9	8 9	19 56.09	-20 42.7	2.043	3.018	6.5	20.9
8 19	19 39.23	-36 56.0	1.609	2.482	14.7	20.0	8 19	19 49.80	-20 57.2	2.096	3.011	9.9	21.1
8 29	19 32.97	-35 55.9	1.667	2.458	17.8	20.2	8 29	19 45.45	-21 6.2	2.172	3.005	12.8	21.3
52748	1998 <i>JJ</i> ₁		7 22.8 242°60	17°7/27.8	18 R		24799	1994 <i>PW</i> ₃		7 22.9 1°46	0°2/22.9	17	
6 20	20 37.28	+12 21.4	1.280	2.054	23.4	18.4	6 20	20 28.60	-18 17.0	0.993	1.910	18.3	18.6
6 30	20 31.76	+14 34.6	1.214	2.046	21.3	18.2	6 30	20 25.72	-18 33.3	0.940	1.907	13.5	18.3
7 10	20 23.33	+16 17.2	1.163	2.037	19.4	18.1	7 10	20 19.84	-19 1.1	0.905	1.906	7.9	18.0
7 20	20 12.74	+17 19.2	1.129	2.028	18.0	17.9	7 20	20 11.93	-19 35.8	0.890	1.906	1.8	17.7
7 30	20 1.28	+17 34.0	1.114	2.019	17.7	17.9	7 30	20 3.52	-20 11.2	0.897	1.907	4.4	17.9
8 9	19 50.54	+17 1.8	1.118	2.009	18.6	17.9	8 9	19 56.30	-20 41.7	0.925	1.911	10.2	18.2
8 19	19 41.95	+15 49.0	1.138	1.999	20.3	18.0	8 19	19 51.60	-21 3.5	0.973	1.916	15.5	18.5
8 29	19 36.57	+14 6.7	1.175	1.988	22.6	18.1	8 29	19 50.30	-21 15.0	1.038	1.923	19.8	18.8
10168	Stony Ridge		7 22.8 263°55	0°1/22.8	18		177734	2005 <i>JV</i> ₂₂		7 22.9 110°58	2°5/24.0	17	
6 20	20 32.27	-17 49.8	1.957	2.834	12.5	19.5	6 20	20 35.97	-12 45.1	1.572	2.443	15.4	20.5
6 30	20 27.26	-18 29.6	1.878	2.826	9.2	19.2	6 30	20 30.05	-12 53.0	1.514	2.454	11.5	20.3
7 10	20 20.29	-19 17.5	1.823	2.818	5.3	19.0	7 10	20 21.91	-13 13.1	1.477	2.465	7.2	20.0
7 20	20 11.99	-20 9.7	1.794	2.809	1.2	18.7	7 20	20 12.36	-13 43.1	1.465	2.476	3.2	19.8
7 30	20 3.24	-21 1.7	1.793	2.801	3.1	18.8	7 30	20 2.53	-14 19.1	1.479	2.486	3.8	19.9
8 9	19 55.05	-21 49.4	1.818	2.792	7.2	19.1	8 9	19 53.61	-14 57.0	1.519	2.496	8.0	20.2
8 19	19 48.31	-22 29.8	1.869	2.784	10.9	19.3	8 19	19 46.58	-15 33.3	1.583	2.506	12.0	20.4
8 29	19 43.73	-23 1.3	1.942	2.775	14.1	19.5	8 29	19 42.14	-16 5.3	1.669	2.516	15.4	20.7
36555	2000 <i>QH</i> ₁₀₃		7 22.8 188°39	7°8/18.4	18		513038	2017 <i>VH</i> ₅		7 22.9 254°51	0°3/22.9	17	
6 20	20 41.62	-41 4.9	2.084	2.944	12.5	19.5	6 20	20 36.52	-18 8.3	1.710	2.588	14.0	22.4
6 30	20 34.29	-42 11.5	2.025	2.944	10.2	19.3	6 30	20 30.69	-18 22.7	1.624	2.571	10.4	22.2
7 10	20 24.44	-43 7.1	1.990	2.943	8.4	19.2	7 10	20 22.46	-18 44.4	1.560	2.554	6.1	21.9
7 20	20 12.92	-43 44.6	1.980	2.942	7.8	19.2	7 20	20 12.54	-19 10.3	1.522	2.537	1.5	21.5
7 30	20 1.00	-43 58.9	1.997	2.940	8.9	19.2	7 30	20 1.97	-19 36.5	1.511	2.519	3.4	21.6
8 9	19 50.07	-43 49.0	2.037	2.937	11.0	19.4	8 9	19 52.02	-19 59.5	1.526	2.501	8.1	21.9
8 19	19 41.24	-43 17.6	2.101	2.934	13.3	19.5	8 19	19 43.81	-20 17.1	1.565	2.482	12.5	22.1
8 29	19 35.29	-42 29.0	2.184	2.931	15.4	19.7	8 29	19 38.20	-20 28.1	1.626	2.463	16.2	22.3
107633	2001 <i>EA</i> ₁₂		7 22.8 81°55	4°2/21.2	17		39886	1998 <i>EL</i> ₁₂		7 22.9 33°20	2°0/24.2	18	
6 20	20 38.99	-27 53.5	1.433	2.326	15.3	19.7	6 20	20 30.22	-11 42.0	1.914	2.781	13.2	17.6
6 30	20 32.56	-28 39.4	1.386	2.340	11.2	19.5	6 30	20 25.65	-12 17.8	1.848	2.786	9.9	17.4
7 10	20 23.44	-29 23.4	1.361	2.354	7.0	19.2	7 10	20 19.30	-13 6.2	1.803	2.791	6.2	17.2
7 20	20 12.68	-29 58.4	1.360	2.368	4.2	19.1	7 20	20 11.78	-14 4.3	1.785	2.796	2.7	17.0
7 30	20 1.70	-30 19.0	1.384	2.381	6.1	19.3	7 30	20 3.95	-15 7.8	1.793	2.801	3.2	17.0
8 9	19 51.97	-30 22.9	1.433	2.395	10.0	19.5	8 9	19 56.73	-16 12.1	1.829	2.806	6.8	17.3
8 19	19 44.64	-30 11.3	1.505	2.408	13.8	19.8	8 19	19 50.93	-17 12.8	1.889	2.812	10.4	17.5
8 29	19 40.41	-29 47.1	1.596	2.422	17.0	20.0	8 29	19 47.18	-18 7.0	1.973	2.818	13.5	17.7
98235	2000 <i>SE</i> ₁₅₃		7 22.8 245°04	0°7/22.5	18		119894	2002 <i>CH</i> ₇₂		7 22.9 244°63	4°2/20.1	18	
6 20	20 35.11	-20 31.5	2.022	2.898	12.2	19.9	6 20	20 33.57	-30 51.5	2.295	3.175	10.8	19.8
6 30	20 29.33	-20 56.7	1.937	2.885	8.9	19.6	6 30	20 28.08	-31 47.5	2.226	3.171	8.1	19.6
7 10	20 21.51	-21 26.8	1.875	2.870	5.2	19.4	7 10	20 20.72	-32 41.2	2.181	3.166	5.5	19.4
7 20	20 12.27	-21 58.1	1.840	2.855	1.3	19.1	7 20	20 12.10	-33 27.4	2.163	3.161	4.2	19.4
7 30	20 2.54	-22 27.0	1.833	2.840	3.2	19.2	7 30	20 3.12	-34 1.7	2.172	3.156	5.5	19.4
8 9	19 53.37	-22 50.4	1.853	2.824	7.3	19.4	8 9	19 54.73	-34 21.8	2.208	3.150	8.1	19.6
8 19	19 45.67	-23 6.5	1.898	2.808	11.0	19.6	8 19	19 47.78	-34 27.4	2.268	3.145	10.9	19.7
8 29	19 40.21	-23 14.8	1.966	2.791	14.3	19.8	8 29	19 42.94	-34 19.8	2.350	3.140	13.3	19.9
340317	2006 <i>DK</i> ₁₇		7 22.8 325°25	1°0/22.3	18		80778	2000 <i>CA</i> ₆₉		7 22.9 48°72	0°7/23.2	18	
6 20	20 33.20	-20 8.5	1.647	2.535	13.9	21.1	6 20	20 34.15	-16 23.1	1.295	2.187	16.6	19.3
6 30	20 28.20	-20 49.1	1.579	2.532	10.1	20.9	6 30	20 29.06	-16 52.4	1.247	2.202	12.2	19.1
7 10	20 20.93	-21 36.6	1.533	2.529	5.8	20.6	7 10	20 21.45	-17 32.9	1.220	2.216	7.1	18.9
7 20	20 12.14	-22 26.2	1.512	2.527	1.5	20.3	7 20	20 12.27	-18 19.8	1.217	2.232	1.9	18.6
7 30	20 2.91	-23 12.7	1.517	2.524	3.8	20.5	7 30	20 2.84	-19 7.4	1.238	2.247	3.7	18.8
8 9	19 54.43	-23 51.5	1.548	2.522	8.2	20.7	8 9	19 54.54	-19 50.5	1.283	2.263	8.7	19.1
8 19	19 47.73	-24 20.3	1.603	2.519	12.3	21.0	8 19	19 48.45	-20 25.6	1.351	2.279	13.2	19.4
8 29	19 43.60	-24 38.4	1.679	2.517	15.7	21.2	8 29	19 45.26	-20 51.3	1.439	2.296	16.9	19.7
442122	2010 <i>TL</i> ₁₇₈		7 22.9 231°09	2°7/21.2	18		383222	2006 <i>AA</i> ₅₀		7 22.9 49°81	1°9/21.7	17	
6 20	20 33.44	-27 49.0	2.535	3.411	10.0	21.9	6 20	20 33.23	-20 25.0	1.540	2.432	14.5	20.4
6 30	20 27.75	-28 20.7	2.458	3.404	7.4	21.7	6 30	20 28.30	-21 42.8	1.484	2.440	10.5	20.2
7 10	20 20.42	-28 51.3	2.406	3.396	4.6	21.6	7 10	20 21.02	-23 8.5	1.450	2.447	6.0	19.9
7 20	20 12.01	-29 17.2	2.381	3.388	2.7	21.4	7 20	20 12.19	-24 35.0	1.442	2.456	2.1	19.7
7 30	20 3.28	-29 35.3	2.384	3.380	4.0	21.5	7 30	20 2.95	-25 54.7	1.460	2.464	4.5	19.9
8 9	19 55.08	-29 43.7	2.415	3.371	6.8	21.7	8 9	19 54.57	-27 1.7	1.503	2.473	8.8	20.1
8 19	19 48.15	-29 42.1	2.473	3.362	9.6	21.8	8 19	19 48.11	-27 52.8	1.570	2.481	12.8	20.4
8 29	19 43.08	-29 31.2	2.552	3.353	12.1	22.0	8 29	19 44.33	-28 27.6	1.658	2.490	16.2	20.7
267306	2001 <i>SV</i> ₂₄₈		7 22.9 297°19	4°6/20.8	18		15503	1999 <i>RD</i> ₂₅ </					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
356983	1997 <i>EP</i> ₂₆	7 22.9 219°74		2°1/21.7 18			168462	1999 <i>JT</i> ₂₉	7 22.9 21°62		6°5/25.3 17		
6 20	20 33.31	-25 21.8	2.317	3.196	10.8	21.3	6 20	20 31.20	-7 49.5	1.009	1.900	20.3	19.1
6 30	20 27.73	-25 48.0	2.245	3.193	7.8	21.1	6 30	20 27.36	-7 15.8	0.962	1.907	15.9	18.9
7 10	20 20.44	-26 14.6	2.197	3.190	4.7	20.9	7 10	20 20.66	-7 4.6	0.932	1.915	11.2	18.7
7 20	20 12.04	-26 38.1	2.176	3.187	2.2	20.8	7 20	20 12.14	-7 16.5	0.923	1.925	7.2	18.5
7 30	20 3.35	-26 55.3	2.183	3.185	3.7	20.9	7 30	20 3.27	-7 48.7	0.934	1.936	7.1	18.5
8 9	19 55.26	-27 4.2	2.218	3.182	6.8	21.1	8 9	19 55.64	-8 35.0	0.967	1.948	10.7	18.8
8 19	19 48.53	-27 4.3	2.279	3.178	9.9	21.2	8 19	19 50.45	-9 28.3	1.020	1.961	15.1	19.0
8 29	19 43.76	-26 56.1	2.362	3.175	12.5	21.4	8 29	19 48.50	-10 21.8	1.091	1.975	19.1	19.3
198123	2004 <i>TB</i> ₁₅	7 22.9 240°63		1°3/22.3 18			132969	2002 <i>TS</i> ₁₃₇	7 22.9 327°42		2°6/23.7 18		
6 20	20 35.43	-22 9.2	1.885	2.766	12.7	21.4	6 20	20 32.76	-14 58.3	1.582	2.463	14.7	18.8
6 30	20 29.64	-22 33.1	1.808	2.757	9.3	21.2	6 30	20 27.95	-14 29.9	1.502	2.449	11.1	18.5
7 10	20 21.72	-23 0.5	1.754	2.749	5.4	21.0	7 10	20 20.86	-14 9.3	1.445	2.435	7.0	18.3
7 20	20 12.35	-23 27.4	1.726	2.741	1.6	20.7	7 20	20 12.20	-13 56.1	1.411	2.422	3.1	18.0
7 30	20 2.54	-23 49.9	1.726	2.732	3.6	20.8	7 30	20 3.03	-13 48.8	1.402	2.409	4.0	18.0
8 9	19 53.41	-24 5.2	1.752	2.723	7.7	21.0	8 9	19 54.56	-13 45.9	1.419	2.397	8.2	18.2
8 19	19 45.92	-24 12.1	1.803	2.713	11.5	21.3	8 19	19 47.85	-13 45.3	1.459	2.386	12.5	18.5
8 29	19 40.82	-24 10.7	1.876	2.704	14.8	21.5	8 29	19 43.70	-13 45.5	1.520	2.376	16.2	18.7
494718	2005 <i>SF</i> ₁₅₁	7 22.9 273°88		2°3/21.4 17			204105	2003 <i>WR</i> ₁₁₄	7 22.9 328°85		1°1/23.2 18		
6 20	20 33.73	-25 48.6	2.412	3.289	10.5	22.3	6 20	20 31.17	-17 50.0	1.349	2.246	15.7	19.7
6 30	20 28.19	-26 23.1	2.317	3.264	7.7	22.0	6 30	20 27.25	-17 39.7	1.267	2.224	11.8	19.4
7 10	20 20.81	-26 58.6	2.247	3.239	4.7	21.8	7 10	20 20.69	-17 36.9	1.205	2.201	7.1	19.0
7 20	20 12.15	-27 31.4	2.203	3.213	2.4	21.6	7 20	20 12.21	-17 39.6	1.166	2.180	2.1	18.7
7 30	20 2.99	-27 57.7	2.188	3.187	3.9	21.7	7 30	20 3.01	-17 45.1	1.150	2.160	3.9	18.7
8 9	19 54.24	-28 14.9	2.201	3.161	7.1	21.8	8 9	19 54.52	-17 50.3	1.159	2.141	9.2	19.0
8 19	19 46.74	-28 22.0	2.240	3.134	10.2	22.0	8 19	19 48.02	-17 53.2	1.189	2.123	14.1	19.2
8 29	19 41.17	-28 19.4	2.301	3.107	13.0	22.1	8 29	19 44.50	-17 52.1	1.238	2.106	18.4	19.4
131197	2001 <i>DA</i> ₁₈	7 22.9 130°88		4°2/20.5 17			255110	2005 <i>UH</i> ₉₀	7 22.9 168°96		0°9/22.4 18		
6 20	20 36.46	-29 49.4	1.998	2.879	12.1	20.2	6 20	20 32.96	-22 15.3	2.510	3.383	10.2	20.6
6 30	20 30.27	-30 43.0	1.941	2.887	9.0	20.0	6 30	20 27.31	-22 30.4	2.438	3.385	7.4	20.4
7 10	20 22.00	-31 34.0	1.907	2.894	5.9	19.9	7 10	20 20.14	-22 47.4	2.392	3.386	4.3	20.2
7 20	20 12.40	-32 16.6	1.900	2.902	4.2	19.8	7 20	20 12.01	-23 3.6	2.373	3.388	1.2	20.0
7 30	20 2.50	-32 46.3	1.920	2.909	5.6	19.9	7 30	20 3.65	-23 16.6	2.383	3.389	2.8	20.1
8 9	19 53.43	-33 0.9	1.967	2.915	8.6	20.1	8 9	19 55.84	-23 24.6	2.421	3.390	6.0	20.3
8 19	19 46.09	-33 0.5	2.037	2.922	11.6	20.3	8 19	19 49.27	-23 27.0	2.485	3.391	8.9	20.5
8 29	19 41.17	-32 47.2	2.129	2.928	14.2	20.5	8 29	19 44.46	-23 23.6	2.573	3.392	11.5	20.7
48181	2001 <i>HW</i> ₃₂	7 22.9 16°43		1°4/22.2 18			28316	1999 <i>CK</i> ₁₀₁	7 22.9 234°44		1°0/22.3 18		
6 20	20 32.49	-21 21.5	1.586	2.479	14.1	18.4	6 20	20 33.27	-21 22.1	2.211	3.088	11.3	19.0
6 30	20 27.69	-21 58.5	1.526	2.481	10.2	18.1	6 30	20 27.82	-21 52.1	2.132	3.080	8.2	18.8
7 10	20 20.63	-22 40.8	1.487	2.484	5.9	17.9	7 10	20 20.58	-22 25.8	2.078	3.072	4.8	18.5
7 20	20 12.10	-23 23.5	1.473	2.488	1.7	17.6	7 20	20 12.15	-22 59.9	2.050	3.064	1.3	18.3
7 30	20 3.22	-24 1.6	1.485	2.492	3.9	17.8	7 30	20 3.33	-23 30.8	2.050	3.056	3.1	18.4
8 9	19 55.19	-24 31.2	1.523	2.496	8.3	18.1	8 9	19 55.05	-23 55.8	2.078	3.048	6.7	18.6
8 19	19 49.02	-24 50.4	1.583	2.501	12.3	18.3	8 19	19 48.13	-24 13.3	2.132	3.039	10.1	18.8
8 29	19 45.43	-24 59.1	1.665	2.507	15.7	18.6	8 29	19 43.20	-24 22.9	2.208	3.030	13.0	19.0
4365	Ivanova	7 22.9 0°18		0°5/23.1 18			164056	2003 <i>VO</i> ₁₀	7 22.9 243°83		1°5/22.1 18		
6 20	20 32.45	-17 38.8	1.816	2.697	13.2	16.8	6 20	20 34.27	-22 37.7	1.939	2.821	12.4	20.2
6 30	20 27.40	-17 51.4	1.748	2.696	9.7	16.6	6 30	20 28.74	-23 6.8	1.866	2.817	9.0	20.0
7 10	20 20.36	-18 10.9	1.702	2.696	5.7	16.4	7 10	20 21.19	-23 39.0	1.817	2.812	5.3	19.8
7 20	20 12.04	-18 34.6	1.681	2.696	1.5	16.1	7 20	20 12.29	-24 10.3	1.793	2.807	1.7	19.5
7 30	20 3.38	-18 59.1	1.687	2.696	3.1	16.2	7 30	20 3.00	-24 36.7	1.797	2.802	3.6	19.7
8 9	19 55.43	-19 21.4	1.719	2.696	7.2	16.5	8 9	19 54.38	-24 55.4	1.828	2.797	7.5	19.9
8 19	19 49.07	-19 39.3	1.776	2.697	11.0	16.7	8 19	19 47.35	-25 5.3	1.883	2.792	11.1	20.1
8 29	19 44.97	-19 51.8	1.855	2.698	14.3	16.9	8 29	19 42.60	-25 6.2	1.961	2.787	14.3	20.3
320356	2007 <i>TJ</i> ₂₁₄	7 22.9 206°71		1°9/21.8 18			523728	2014 <i>ON</i> ₃₄₄	7 22.9 209°61		8°2/26.4 18		
6 20	20 34.60	-24 24.2	2.115	2.995	11.6	21.2	6 20	21 10.79	+12 45.3	0.511	1.347	40.8	23.3
6 30	20 28.81	-24 51.7	2.044	2.993	8.5	21.0	6 30	21 2.57	+9 57.6	0.435	1.344	34.6	22.8
7 10	20 21.12	-25 20.4	1.996	2.990	5.0	20.8	7 10	20 45.87	+4 43.6	0.367	1.335	25.6	22.1
7 20	20 12.21	-25 46.4	1.975	2.987	2.1	20.6	7 20	20 19.13	-3 49.2	0.317	1.321	13.4	21.4
7 30	20 2.96	-26 6.3	1.982	2.984	3.7	20.7	7 30	19 43.29	-15 23.5	0.293	1.302	10.4	21.1
8 9	19 54.38	-26 17.8	2.016	2.981	7.2	20.9	8 9	19 3.71	-27 22.8	0.300	1.277	25.4	21.6
8 19	19 47.29	-26 20.2	2.075	2.978	10.6	21.1	8 19	18 28.13	-36 59.6	0.333	1.246	39.6	22.2
8 29	19 42.36	-26 13.9	2.157	2.974	13.4	21.3	8 29	18 2.20	-43 44.2	0.379	1.210	50.2	22.7
151658	2002 <i>YK</i>	7 22.9 266°98		2°8/21.3 18		R	314604	2006 <i>BN</i> ₅₇	7 22.9 305°60		2°7/21.6 18		
6 20	20 36.12	-23 52.1	1.773	2.658	13.2	20.1	6 20	20 34.31	-27 53.8	2.189	3.070	11.2	20.1
6 30	20 30.55	-24 53.3	1.684	2.635	9.8	19.9	6 30	20 28.61	-28 6.9	2.112	3.060	8.3	19.9
7 10	20 22.50	-26 0.1	1.618	2.612	5.9	19.6	7 10	20 21.04	-28 17.8	2.059	3.051	5.1	19.7
7 20	20 12.59	-27 6.4	1.577	2.589	2.8	19.4	7 20	20 12.25	-28 23.2	2.032	3.041	2.8	19.5
7 30	20 1.88	-28 5.5	1.564	2.565	5.0	19.4	7 30	20 3.14	-28 20.3	2.033	3.032	4.2	19.6
8 9	19 51.67	-28 52.2	1.578	2.540	9.1	19.6	8 9	19 54.69	-28 7.7	2.061	3.023	7.4	19.8
8 19	19 43.16	-29 23.9	1.615	2.515	13.2	19.8	8 19	19 47.72	-27 45.7	2.114	3.014	10.5	20.0
8 29	19 37.32	-29 40.7	1.673	2.490	16.7	20.0	8 29	19 42.89	-27 15.7	2.189	3.005	13.3	20.2
199254	2006 <i>BU</i> ₂	7 22.9 177°17		2°1/21.8 18			312882	2011 <i>UV</i> <					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
335482	2005 <i>WC</i> ₁₄₀	7 22.9 281°22		0°9/22.5 17			324397	2006 <i>SP</i> ₅₅	7 22.9 333°98		3°5/21.2 18		
6 20	20 34.63	-20 39.7	1.659	2.545	13.9	21.1	6 20	20 27.52	-22 9.7	1.008	1.930	17.6	19.0
6 30	20 29.38	-21 5.1	1.579	2.532	10.2	20.9	6 30	20 25.38	-23 23.3	0.938	1.908	13.0	18.6
7 10	20 21.75	-21 36.3	1.522	2.518	5.9	20.6	7 10	20 20.02	-24 50.0	0.886	1.887	7.8	18.3
7 20	20 12.45	-22 9.2	1.490	2.504	1.5	20.3	7 20	20 12.19	-26 21.0	0.855	1.868	3.5	18.0
7 30	20 2.58	-22 39.3	1.483	2.491	3.7	20.4	7 30	20 3.34	-27 45.0	0.845	1.850	6.6	18.1
8 9	19 53.39	-23 2.9	1.503	2.477	8.3	20.6	8 9	19 55.37	-28 52.0	0.856	1.834	12.3	18.3
8 19	19 45.98	-23 17.9	1.546	2.463	12.6	20.9	8 19	19 49.95	-29 36.4	0.886	1.819	17.8	18.6
8 29	19 41.21	-23 24.0	1.610	2.450	16.3	21.1	8 29	19 48.33	-29 57.4	0.932	1.806	22.4	18.8
217377	2004 <i>UF</i> ₂	7 22.9 217°00		1°8/24.2 18			9222	Chubey	7 22.9 67°02		2°7/20.9 18 R		
6 20	20 29.96	-12 9.4	2.454	3.311	11.0	20.2	6 20	20 33.00	-24 11.0	2.062	2.945	11.7	16.9
6 30	20 25.19	-12 34.3	2.375	3.308	8.3	20.1	6 30	20 27.66	-25 31.5	2.013	2.963	8.5	16.8
7 10	20 18.97	-13 8.6	2.321	3.306	5.2	19.9	7 10	20 20.50	-26 54.1	1.988	2.981	5.1	16.6
7 20	20 11.78	-13 50.4	2.293	3.303	2.3	19.7	7 20	20 12.17	-28 12.9	1.990	3.000	2.8	16.5
7 30	20 4.30	-14 36.8	2.294	3.301	2.7	19.7	7 30	20 3.58	-29 22.4	2.021	3.018	4.5	16.6
8 9	19 57.26	-15 24.7	2.323	3.298	5.7	19.9	8 9	19 55.70	-30 18.8	2.079	3.036	7.6	16.8
8 19	19 51.32	-16 11.1	2.378	3.295	8.8	20.1	8 19	19 49.32	-31 0.3	2.162	3.054	10.7	17.1
8 29	19 47.02	-16 53.7	2.458	3.292	11.5	20.2	8 29	19 45.07	-31 27.5	2.267	3.072	13.3	17.3
92356	2000 <i>HW</i> ₁₄	7 22.9 121°08		0°5/22.7 17			88223	2001 <i>BQ</i> ₁₃	7 22.9 276°46		4°2/24.9 18		
6 20	20 37.62	-18 28.6	1.394	2.281	16.0	20.0	6 20	20 31.89	-7 52.4	2.333	3.174	12.0	19.7
6 30	20 31.64	-19 10.3	1.338	2.290	11.7	19.7	6 30	20 26.73	-7 25.9	2.240	3.156	9.5	19.5
7 10	20 23.04	-20 1.1	1.303	2.299	6.7	19.5	7 10	20 19.96	-7 9.5	2.169	3.139	6.7	19.3
7 20	20 12.72	-20 55.4	1.292	2.307	1.5	19.2	7 20	20 12.07	-7 3.6	2.125	3.121	4.5	19.1
7 30	20 2.03	-21 46.9	1.307	2.315	3.9	19.4	7 30	20 3.78	-7 7.7	2.108	3.102	4.6	19.1
8 9	19 52.39	-22 30.4	1.347	2.323	8.9	19.7	8 9	19 55.89	-7 20.1	2.118	3.084	6.9	19.2
8 19	19 44.95	-23 3.2	1.411	2.330	13.4	20.0	8 19	19 49.13	-7 38.7	2.154	3.066	9.8	19.3
8 29	19 40.51	-23 24.7	1.494	2.337	17.1	20.2	8 29	19 44.12	-8 0.9	2.213	3.047	12.6	19.5
472525	2015 <i>CX</i> ₄₉	7 22.9 12°54		2°7/21.7 17			475369	2006 <i>DC</i> ₁₂₈	7 22.9 124°27		5°0/21.2 16		
6 20	20 34.07	-24 4.7	1.417	2.315	15.1	20.6	6 20	20 41.28	-33 14.2	1.784	2.663	13.5	21.5
6 30	20 29.14	-24 46.6	1.358	2.317	11.0	20.4	6 30	20 33.99	-33 31.8	1.723	2.666	10.2	21.3
7 10	20 21.63	-25 31.7	1.321	2.319	6.5	20.1	7 10	20 24.26	-33 41.9	1.686	2.669	7.0	21.1
7 20	20 12.42	-26 13.8	1.308	2.321	2.8	19.9	7 20	20 13.03	-33 39.1	1.673	2.672	5.1	21.0
7 30	20 2.81	-26 47.0	1.320	2.324	5.0	20.1	7 30	20 1.59	-33 20.1	1.687	2.675	6.3	21.1
8 9	19 54.19	-27 7.7	1.356	2.327	9.4	20.3	8 9	19 51.28	-32 44.7	1.727	2.678	9.4	21.2
8 19	19 47.72	-27 14.8	1.415	2.331	13.6	20.6	8 19	19 43.13	-31 55.6	1.791	2.680	12.7	21.5
8 29	19 44.18	-27 9.4	1.493	2.335	17.2	20.8	8 29	19 37.83	-30 56.8	1.877	2.683	15.6	21.7
399072	2014 <i>CZ</i> ₂₀	7 22.9 156°82		4°3/20.3 17			240198	2002 <i>RC</i> ₅₄	7 22.9 323°28		3°1/21.5 18 R		
6 20	20 37.09	-31 44.3	2.303	3.177	11.0	21.3	6 20	20 32.32	-25 8.5	1.526	2.424	14.2	19.9
6 30	20 30.57	-32 33.3	2.243	3.183	8.3	21.1	6 30	20 27.98	-25 49.3	1.448	2.406	10.5	19.7
7 10	20 22.14	-33 18.3	2.207	3.189	5.7	21.0	7 10	20 21.09	-26 33.2	1.392	2.388	6.3	19.4
7 20	20 12.52	-33 54.4	2.198	3.195	4.3	20.9	7 20	20 12.39	-27 14.3	1.359	2.371	3.1	19.2
7 30	20 2.62	-34 17.5	2.217	3.200	5.5	21.0	7 30	20 3.03	-27 46.9	1.352	2.354	5.2	19.2
8 9	19 53.45	-34 26.1	2.263	3.204	8.0	21.2	8 9	19 54.40	-28 6.6	1.369	2.338	9.6	19.5
8 19	19 45.84	-34 20.5	2.335	3.208	10.7	21.3	8 19	19 47.70	-28 12.2	1.409	2.323	13.8	19.7
8 29	19 40.44	-34 2.8	2.428	3.212	13.1	21.5	8 29	19 43.85	-28 4.4	1.468	2.309	17.5	19.9
56330	1999 <i>XS</i> ₁₂	7 22.9 203°10		6°7/26.1 18			62116	2000 <i>RC</i> ₁₀₁	7 22.9 15°25		7°8/25.3 18		
6 20	20 34.62	-2 21.0	1.820	2.647	15.5	19.4	6 20	20 34.63	-4 48.1	1.465	2.317	17.3	17.9
6 30	20 29.00	-1 53.0	1.743	2.644	12.6	19.2	6 30	20 29.28	-3 33.5	1.403	2.319	14.0	17.7
7 10	20 21.36	-1 42.8	1.688	2.641	9.6	19.0	7 10	20 21.62	-2 35.7	1.360	2.322	10.7	17.5
7 20	20 12.37	-1 51.6	1.656	2.637	7.3	18.8	7 20	20 12.47	-1 57.5	1.340	2.325	8.2	17.3
7 30	20 2.95	-2 18.7	1.649	2.632	7.0	18.8	7 30	20 2.95	-1 40.3	1.344	2.328	8.1	17.3
8 9	19 54.13	-3 0.7	1.669	2.628	9.0	18.9	8 9	19 54.30	-1 42.3	1.372	2.332	10.4	17.5
8 19	19 46.84	-3 53.3	1.712	2.622	12.0	19.1	8 19	19 47.53	-1 59.8	1.423	2.337	13.7	17.7
8 29	19 41.79	-4 51.2	1.778	2.617	15.0	19.3	8 29	19 43.40	-2 27.6	1.493	2.342	16.8	17.9
380835	2006 <i>AE</i> ₃₂	7 22.9 210°86		3°9/20.3 18			516662	2008 <i>SD</i> ₃₀	7 22.9 260°03		13°4/ 1.1 18		
6 20	20 36.84	-28 44.7	2.231	3.107	11.2	22.1	6 20	20 32.49	+21 2.0	2.305	2.963	17.0	22.2
6 30	20 30.59	-29 52.0	2.156	3.100	8.4	21.9	6 30	20 27.40	+21 52.7	2.209	2.940	15.9	22.0
7 10	20 22.30	-30 59.0	2.106	3.093	5.5	21.7	7 10	20 20.48	+22 17.2	2.128	2.917	14.8	21.9
7 20	20 12.59	-31 59.9	2.083	3.084	3.9	21.6	7 20	20 12.23	+22 10.8	2.066	2.894	13.9	21.8
7 30	20 2.39	-32 49.5	2.088	3.075	5.3	21.7	7 30	20 3.42	+21 30.7	2.024	2.870	13.4	21.7
8 9	19 52.74	-33 24.5	2.121	3.066	8.3	21.8	8 9	19 54.93	+20 17.6	2.003	2.845	13.6	21.7
8 19	19 44.58	-33 44.1	2.179	3.056	11.2	22.0	8 19	19 47.60	+18 35.7	2.004	2.819	14.5	21.7
8 29	19 38.66	-33 49.4	2.258	3.045	13.9	22.2	8 29	19 42.17	+16 31.9	2.025	2.793	15.8	21.7
313938	2004 <i>RB</i> ₁₀₁	7 22.9 250°74		1°5/22.1 18			164487	2006 <i>FB</i> ₃₅	7 22.9 204°10		0°9/22.5 18		
6 20	20 33.62	-24 12.8	2.347	3.223	10.7	20.5	6 20	20 36.82	-19 11.9	1.469	2.356	15.3	20.3
6 30	20 27.95	-24 24.3	2.271	3.219	7.8	20.3	6 30	20 31.16	-19 58.9	1.401	2.354	11.2	20.1
7 10	20 20.60	-24 36.3	2.220	3.214	4.6	20.1	7 10	20 22.88	-20 55.0	1.355	2.352	6.5	19.8
7 20	20 12.18	-24 45.9	2.196	3.210	1.7	19.9	7 20	20 12.80	-21 54.5	1.334	2.349	1.6	19.5
7 30	20 3.48	-24 50.7	2.201	3.205	3.2	20.0	7 30	20 2.15	-22 50.9	1.339	2.346	4.0	19.7
8 9	19 55.37	-24 49.2	2.233	3.200	6.5	20.2	8 9	19 52.36	-23 38.7	1.369	2.343	9.0	19.9
8 19	19 48.59	-24 40.9	2.291	3.195	9.6	20.4	8 19	19 44.63	-24 14.9	1.422	2.339	13.5	20.2
8 29	19 43.74	-24 26.4	2.372	3.191	12.3	20.5	8 29	19 39.84	-24 38.8	1.495	2.335	17.3	20.4
260540	2005 <i>EJ</i> ₁₅₄	7 22.9 163°77		1°0/23.4 17			495102	2011 <i>UU</i> ₁₀₆	7 22.9 150°20		4°7/24.9 18		
6 20	20 36.97												

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
103898	2000 <i>DT</i> ₅₅		7 22.9	6°00	2°7/24.1	17	306825	2001 <i>RX</i> ₁₃		7 22.9	293°00	2°6/23.9	17
6 20	20 28.73	-12 21.7	1.094	1.995	18.3	18.3	6 20	20 34.31	-13 15.3	1.256	2.144	17.4	20.9
6 30	20 25.62	-12 43.4	1.039	1.995	13.8	18.1	6 30	20 29.70	-13 22.1	1.181	2.130	13.2	20.6
7 10	20 19.77	-13 24.0	1.002	1.996	8.7	17.8	7 10	20 22.25	-13 44.2	1.125	2.117	8.3	20.3
7 20	20 12.09	-14 20.0	0.986	1.999	3.6	17.5	7 20	20 12.72	-14 19.6	1.092	2.104	3.5	19.9
7 30	20 3.92	-15 25.2	0.993	2.002	4.4	17.6	7 30	20 2.42	-15 3.8	1.082	2.091	4.4	20.0
8 9	19 56.79	-16 31.8	1.022	2.008	9.5	17.9	8 9	19 52.90	-15 51.1	1.096	2.078	9.6	20.2
8 19	19 51.92	-17 33.2	1.072	2.014	14.4	18.2	8 19	19 45.55	-16 36.6	1.132	2.065	14.7	20.5
8 29	19 50.15	-18 24.8	1.140	2.022	18.7	18.5	8 29	19 41.38	-17 16.1	1.187	2.053	19.1	20.7
136794	1997 <i>AS</i> ₁₉		7 22.9	84°30	0°9/23.3	17	236809	2007 <i>RW</i> ₁₃		7 22.9	64°62	1°4/23.4	18
6 20	20 37.13	-17 6.2	1.463	2.346	15.6	19.9	6 20	20 37.08	-17 33.2	1.717	2.592	14.1	19.7
6 30	20 31.07	-17 15.3	1.410	2.359	11.5	19.7	6 30	20 30.73	-17 6.9	1.658	2.603	10.4	19.5
7 10	20 22.62	-17 32.8	1.379	2.373	6.8	19.5	7 10	20 22.31	-16 45.8	1.622	2.614	6.2	19.3
7 20	20 12.69	-17 55.3	1.372	2.387	1.9	19.2	7 20	20 12.64	-16 28.7	1.612	2.625	2.1	19.1
7 30	20 2.54	-18 18.9	1.391	2.400	3.5	19.4	7 30	20 2.80	-16 14.2	1.628	2.636	3.3	19.2
8 9	19 53.46	-18 40.0	1.436	2.414	8.2	19.7	8 9	19 53.89	-16 1.1	1.671	2.648	7.4	19.5
8 19	19 46.47	-18 56.6	1.504	2.427	12.5	20.0	8 19	19 46.81	-15 48.4	1.739	2.659	11.3	19.7
8 29	19 42.25	-19 7.5	1.593	2.441	16.0	20.2	8 29	19 42.18	-15 35.7	1.829	2.670	14.5	20.0
307057	2001 <i>YN</i> ₈₃		7 22.9	255°33	0°3/23.0	18	308490	2005 <i>TL</i> ₁₀₂		7 22.9	339°34	6°3/26.4	18
6 20	20 35.79	-18 18.2	1.926	2.799	12.9	21.3	6 20	20 30.46	-2 0.0	2.075	2.900	13.9	20.4
6 30	20 29.98	-18 29.5	1.837	2.782	9.5	21.1	6 30	20 25.78	-1 30.3	1.999	2.897	11.4	20.2
7 10	20 22.05	-18 47.0	1.771	2.764	5.6	20.8	7 10	20 19.44	-1 16.6	1.945	2.895	8.8	20.1
7 20	20 12.61	-19 7.9	1.731	2.746	1.4	20.5	7 20	20 12.01	-1 19.7	1.915	2.893	6.8	19.9
7 30	20 2.61	-19 29.0	1.719	2.727	3.1	20.6	7 30	20 4.26	-1 39.2	1.911	2.891	6.5	19.9
8 9	19 53.15	-19 47.4	1.734	2.708	7.4	20.8	8 9	19 57.03	-2 12.5	1.932	2.889	8.1	20.0
8 19	19 45.22	-20 1.1	1.774	2.689	11.4	21.0	8 19	19 51.06	-2 55.9	1.978	2.887	10.7	20.2
8 29	19 39.60	-20 9.4	1.836	2.669	14.8	21.2	8 29	19 46.97	-3 45.1	2.046	2.886	13.3	20.3
434083	2002 <i>CK</i>		7 22.9	151°20	6°2/19.9	17	485253	2010 <i>VO</i> ₁₆₀		7 22.9	290°19	3°9/20.7	17
6 20	20 40.64	-36 4.7	1.980	2.852	12.6	21.0	6 20	20 34.53	-30 15.0	2.181	3.062	11.3	21.7
6 30	20 33.48	-36 53.5	1.924	2.858	9.8	20.8	6 30	20 29.02	-30 52.2	2.095	3.041	8.5	21.5
7 10	20 23.98	-37 34.1	1.891	2.864	7.3	20.7	7 10	20 21.46	-31 27.0	2.033	3.021	5.6	21.3
7 20	20 13.01	-38 0.3	1.884	2.869	6.2	20.6	7 20	20 12.50	-31 54.9	1.998	3.000	3.9	21.2
7 30	20 1.76	-38 7.7	1.903	2.873	7.3	20.7	7 30	20 3.04	-32 11.6	1.989	2.979	5.3	21.2
8 9	19 51.52	-37 55.3	1.948	2.878	9.8	20.9	8 9	19 54.13	-32 14.8	2.007	2.958	8.3	21.3
8 19	19 43.30	-37 25.3	2.017	2.882	12.5	21.1	8 19	19 46.71	-32 4.5	2.050	2.937	11.4	21.5
8 29	19 37.80	-36 41.6	2.106	2.885	15.0	21.3	8 29	19 41.52	-31 42.2	2.114	2.916	14.2	21.7
312451	2008 <i>KP</i> ₁₃		7 22.9	128°95	1°0/23.7	18	371928	2008 <i>EX</i> ₂₅		7 22.9	75°25	3°6/24.8	17
6 20	20 30.75	-14 6.2	2.454	3.315	10.9	20.9	6 20	20 33.96	-9 32.9	1.453	2.323	16.5	21.1
6 30	20 25.76	-14 45.5	2.384	3.321	8.0	20.8	6 30	20 28.84	-9 48.0	1.394	2.331	12.6	20.9
7 10	20 19.32	-15 33.3	2.339	3.328	4.8	20.6	7 10	20 21.41	-10 20.2	1.355	2.339	8.3	20.7
7 20	20 11.94	-16 26.6	2.321	3.334	1.6	20.4	7 20	20 12.48	-11 7.2	1.340	2.347	4.4	20.5
7 30	20 4.31	-17 22.2	2.332	3.340	2.4	20.4	7 30	20 3.18	-12 4.5	1.350	2.355	4.5	20.5
8 9	19 57.16	-18 16.4	2.371	3.346	5.7	20.7	8 9	19 54.77	-13 6.4	1.385	2.364	8.4	20.8
8 19	19 51.14	-19 6.6	2.437	3.351	8.7	20.9	8 19	19 48.27	-14 7.4	1.444	2.372	12.5	21.0
8 29	19 46.79	-19 50.6	2.527	3.357	11.3	21.0	8 29	19 44.43	-15 3.1	1.523	2.380	16.1	21.3
443434	2014 <i>HO</i> ₁₃₆		7 22.9	357°59	0°8/22.5	18	187093	2005 <i>QA</i> ₃		7 22.9	300°96	2°5/24.1	18
6 20	20 32.30	-20 42.6	1.924	2.808	12.4	21.4	6 20	20 32.62	-12 31.1	1.472	2.351	15.7	20.2
6 30	20 27.30	-21 10.6	1.856	2.807	9.0	21.2	6 30	20 28.11	-12 45.6	1.393	2.338	11.9	19.9
7 10	20 20.38	-21 43.2	1.811	2.806	5.2	21.0	7 10	20 21.16	-13 14.7	1.336	2.325	7.6	19.6
7 20	20 12.21	-22 16.8	1.791	2.806	1.3	20.7	7 20	20 12.47	-13 56.4	1.302	2.313	3.3	19.3
7 30	20 3.70	-22 47.6	1.799	2.806	3.3	20.8	7 30	20 3.14	-14 46.4	1.292	2.301	4.0	19.3
8 9	19 55.85	-23 12.5	1.833	2.806	7.2	21.1	8 9	19 54.48	-15 39.5	1.308	2.288	8.6	19.6
8 19	19 49.54	-23 29.9	1.892	2.806	10.8	21.3	8 19	19 47.64	-16 30.7	1.347	2.277	13.1	19.8
8 29	19 45.42	-23 39.1	1.973	2.807	13.9	21.5	8 29	19 43.53	-17 16.4	1.406	2.265	17.1	20.0
183173	2002 <i>SM</i> ₃₉		7 22.9	331°57	2°7/21.9	18	441992	2010 <i>NG</i> ₈₆		7 22.9	8°16	13°7/3.4	15
6 20	20 31.57	-23 35.5	1.115	2.029	17.0	19.5	6 20	20 23.93	+13 27.2	1.324	2.110	22.3	19.9
6 30	20 28.10	-24 6.8	1.045	2.011	12.6	19.2	6 30	20 21.70	+13 48.9	1.269	2.113	19.9	19.7
7 10	20 21.48	-24 43.6	0.994	1.993	7.5	18.8	7 10	20 17.34	+13 31.0	1.227	2.119	17.4	19.6
7 20	20 12.55	-25 19.4	0.963	1.977	2.9	18.5	7 20	20 11.57	+12 29.9	1.203	2.126	15.2	19.5
7 30	20 2.79	-25 47.2	0.956	1.962	5.6	18.6	7 30	20 5.43	+10 46.6	1.197	2.136	13.9	19.4
8 9	19 54.00	-26 2.0	0.970	1.948	11.1	18.9	8 9	20 0.09	+8 28.5	1.212	2.147	14.0	19.5
8 19	19 47.70	-26 1.9	1.004	1.936	16.3	19.1	8 19	19 56.50	+5 47.2	1.249	2.160	15.4	19.6
8 29	19 44.98	-25 47.9	1.055	1.924	20.8	19.4	8 29	19 55.39	+2 56.5	1.306	2.174	17.6	19.8
254218	2004 <i>RC</i> ₉₃		7 22.9	318°96	5°0/25.5	18	3532	<i>Tracie</i>		7 22.9	266°07	4°7/19.9	18
6 20	20 30.26	-6 4.8	2.039	2.883	13.4	20.1	6 20	20 34.67	-31 20.0	2.073	2.955	11.7	16.5
6 30	20 25.71	-5 42.9	1.958	2.874	10.7	19.9	6 30	20 29.16	-32 20.6	2.005	2.950	8.8	16.4
7 10	20 19.43	-5 34.5	1.898	2.865	7.8	19.7	7 10	20 21.55	-33 18.5	1.960	2.944	6.1	16.2
7 20	20 12.00	-5 40.0	1.863	2.856	5.4	19.6	7 20	20 12.54	-34 7.8	1.942	2.939	4.7	16.1
7 30	20 4.20	-5 58.3	1.855	2.848	5.3	19.5	7 30	20 3.09	-34 43.5	1.951	2.933	6.1	16.2
8 9	19 56.89	-6 27.1	1.872	2.839	7.5	19.7	8 9	19 54.31	-35 3.0	1.986	2.928	8.9	16.3
8 19	19 50.87	-7 3.1	1.914	2.831	10.5	19.8	8 19	19 47.16	-35 6.1	2.044	2.922	11.8	16.5
8 29	19 46.76	-7 42.5	1.979	2.824	13.4	20.0	8 29	19 42.34	-34 54.5	2.124	2.917	14.4	16.7
137957	2000 <i>CZ</i> ₁₇		7 22.9	198°85	0°9/23.4	17	28947	2000 <i>WH</i> ₁₂		7 22.9	167°06		

EPHEMERIDES

7 22.9

7 22.9

2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
1140	Crimea		7 22.9 288°93	6°0/18.9 18			149136	2002 <i>EE</i> ₇₅		7 22.9 135°88	0°6/23.3 18		
6 20	20 34.98	-32 23.0	1.855	2.741	12.7	14.6	6 20	20 31.96	-16 53.1	2.547	3.411	10.4	20.7
6 30	20 29.75	-33 49.1	1.784	2.730	9.7	14.4	6 30	20 26.61	-17 9.0	2.479	3.419	7.6	20.5
7 10	20 22.10	-35 13.2	1.737	2.718	7.0	14.2	7 10	20 19.84	-17 30.3	2.435	3.426	4.5	20.3
7 20	20 12.71	-36 27.3	1.716	2.707	6.0	14.1	7 20	20 12.18	-17 54.8	2.419	3.434	1.3	20.1
7 30	20 2.69	-37 24.4	1.720	2.695	7.5	14.2	7 30	20 4.31	-18 20.1	2.432	3.441	2.3	20.2
8 9	19 53.32	-38 0.6	1.750	2.684	10.4	14.3	8 9	19 56.96	-18 43.9	2.473	3.447	5.5	20.4
8 19	19 45.76	-38 15.4	1.803	2.673	13.5	14.5	8 19	19 50.76	-19 4.6	2.541	3.454	8.5	20.6
8 29	19 40.88	-38 10.9	1.875	2.661	16.3	14.6	8 29	19 46.21	-19 21.1	2.633	3.460	11.0	20.8
391537	2007 <i>RP</i> ₃₀₉		7 22.9 300°87	16°9/ 3.9 17			225916	2002 <i>AX</i> ₈₆		7 22.9 156°51	2°0/24.1 17		
6 20	20 32.37	+17 11.5	1.131	1.898	26.3	20.5	6 20	20 35.02	-12 47.9	2.253	3.107	12.0	21.3
6 30	20 28.43	+17 35.8	1.066	1.895	23.9	20.2	6 30	20 28.96	-12 58.5	2.184	3.115	9.0	21.2
7 10	20 21.58	+17 11.5	1.012	1.892	21.3	20.1	7 10	20 21.26	-13 18.0	2.138	3.123	5.6	21.0
7 20	20 12.62	+15 50.7	0.973	1.889	18.7	19.9	7 20	20 12.51	-13 44.3	2.120	3.130	2.5	20.8
7 30	20 2.91	+13 31.1	0.952	1.886	17.1	19.8	7 30	20 3.51	-14 15.0	2.130	3.136	3.0	20.8
8 9	19 54.06	+10 20.9	0.951	1.883	17.1	19.8	8 9	19 55.10	-14 47.1	2.168	3.141	6.2	21.0
8 19	19 47.47	+6 36.4	0.970	1.880	18.8	19.9	8 19	19 48.02	-15 18.3	2.233	3.146	9.4	21.3
8 29	19 44.20	+2 38.5	1.009	1.878	21.6	20.0	8 29	19 42.84	-15 46.6	2.321	3.151	12.2	21.5
439398	2013 <i>BO</i> ₁₁		7 22.9 312°28	0°3/22.8 18			28229	1999 <i>AK</i> ₄		7 22.9 274°06	1°9/23.6 18		
6 20	20 32.81	-19 48.0	1.910	2.791	12.6	21.5	6 20	20 35.68	-15 34.0	1.627	2.504	14.7	18.6
6 30	20 27.74	-20 6.2	1.835	2.785	9.2	21.3	6 30	20 30.17	-15 24.5	1.547	2.491	11.0	18.3
7 10	20 20.70	-20 29.5	1.784	2.780	5.3	21.0	7 10	20 22.31	-15 23.4	1.488	2.479	6.8	18.0
7 20	20 12.36	-20 54.9	1.759	2.774	1.2	20.7	7 20	20 12.81	-15 29.0	1.454	2.466	2.6	17.8
7 30	20 3.63	-21 18.7	1.761	2.769	3.1	20.9	7 30	20 2.75	-15 38.9	1.446	2.454	3.6	17.8
8 9	19 55.55	-21 38.3	1.789	2.764	7.2	21.1	8 9	19 53.38	-15 50.4	1.463	2.441	8.1	18.0
8 19	19 48.99	-21 51.8	1.842	2.759	10.9	21.3	8 19	19 45.78	-16 1.3	1.505	2.429	12.4	18.3
8 29	19 44.65	-21 58.5	1.917	2.754	14.1	21.5	8 29	19 40.79	-16 9.9	1.568	2.416	16.2	18.5
133060	2003 <i>FT</i> ₇		7 22.9 245°41	16°8/ 2.0 17			238624	2005 <i>CV</i> ₁₃		7 22.9 198°28	4°2/25.9 18		
6 20	20 34.43	+17 15.3	1.364	2.105	23.7	19.8	6 20	20 32.49	-4 36.7	2.476	3.299	12.0	21.6
6 30	20 29.70	+18 8.6	1.288	2.094	21.7	19.6	6 30	20 27.09	-4 44.8	2.392	3.296	9.5	21.4
7 10	20 22.26	+18 22.7	1.225	2.083	19.7	19.4	7 10	20 20.18	-5 6.3	2.331	3.291	6.9	21.2
7 20	20 12.79	+17 49.7	1.178	2.071	17.8	19.3	7 20	20 12.28	-5 40.8	2.296	3.287	4.7	21.1
7 30	20 2.48	+16 25.5	1.149	2.059	16.8	19.2	7 30	20 4.05	-6 26.3	2.289	3.281	4.5	21.1
8 9	19 52.80	+14 13.4	1.140	2.046	17.1	19.1	8 9	19 56.24	-7 19.7	2.310	3.275	6.5	21.2
8 19	19 45.08	+11 23.8	1.151	2.033	18.7	19.2	8 19	19 49.51	-8 17.5	2.358	3.269	9.1	21.3
8 29	19 40.36	+8 11.5	1.181	2.019	21.0	19.3	8 29	19 44.44	-9 16.0	2.431	3.261	11.7	21.5
250788	2005 <i>TG</i> ₇₇		7 22.9 313°29	1°0/22.4 18			210026	2006 <i>KH</i> ₆₇		7 22.9 18°53	4°3/24.9 17		
6 20	20 32.11	-21 7.2	2.092	2.973	11.7	20.4	6 20	20 29.81	-9 26.3	1.017	1.913	19.7	19.6
6 30	20 27.10	-21 37.7	2.020	2.970	8.5	20.2	6 30	20 26.51	-9 40.6	0.968	1.919	15.1	19.4
7 10	20 20.27	-22 12.3	1.971	2.967	4.9	20.0	7 10	20 20.37	-10 18.3	0.937	1.926	10.0	19.1
7 20	20 12.26	-22 47.6	1.949	2.964	1.3	19.7	7 20	20 12.36	-11 16.3	0.926	1.934	5.2	18.9
7 30	20 3.91	-23 19.8	1.954	2.961	3.2	19.8	7 30	20 3.93	-12 28.3	0.936	1.944	5.3	18.9
8 9	19 56.15	-23 46.1	1.986	2.958	6.9	20.1	8 9	19 56.65	-13 45.5	0.969	1.955	9.9	19.2
8 19	19 49.79	-24 4.8	2.044	2.955	10.3	20.3	8 19	19 51.77	-14 59.8	1.022	1.967	14.8	19.5
8 29	19 45.47	-24 15.4	2.124	2.952	13.2	20.5	8 29	19 50.10	-16 5.3	1.094	1.979	19.0	19.8
83986	2002 <i>JS</i> ₁₀₁		7 22.9 320°62	2°4/23.8 18			215859	2005 <i>EJ</i> ₆₃		7 22.9 160°88	0°8/23.4 17		
6 20	20 30.36	-14 41.0	1.106	2.009	18.0	18.2	6 20	20 34.32	-16 35.1	2.299	3.163	11.4	21.9
6 30	20 27.29	-14 39.2	1.022	1.980	13.7	17.8	6 30	20 28.47	-16 49.1	2.228	3.168	8.4	21.7
7 10	20 21.15	-14 52.1	0.956	1.951	8.6	17.4	7 10	20 20.98	-17 9.0	2.182	3.173	5.0	21.5
7 20	20 12.60	-15 18.5	0.910	1.923	3.4	17.0	7 20	20 12.46	-17 32.8	2.163	3.177	1.5	21.3
7 30	20 2.95	-15 54.3	0.887	1.896	4.6	17.0	7 30	20 3.68	-17 57.6	2.173	3.181	2.6	21.4
8 9	19 53.91	-16 34.2	0.885	1.871	10.6	17.3	8 9	19 55.48	-18 21.1	2.211	3.185	6.1	21.6
8 19	19 47.12	-17 12.8	0.903	1.846	16.3	17.5	8 19	19 48.59	-18 41.4	2.275	3.188	9.3	21.8
8 29	19 43.85	-17 45.6	0.938	1.823	21.4	17.7	8 29	19 43.57	-18 57.4	2.363	3.190	12.1	22.0
302216	2001 <i>UD</i> ₁₉₉		7 22.9 284°04	0°3/22.8 18			390479	2013 <i>YH</i> ₁₄₈		7 22.9 211°86	1°8/24.1 18		
6 20	20 33.00	-19 34.1	2.032	2.910	12.1	21.5	6 20	20 32.85	-11 45.5	1.966	2.827	13.1	20.9
6 30	20 27.89	-19 52.8	1.945	2.893	8.9	21.3	6 30	20 27.74	-12 30.2	1.889	2.824	9.9	20.7
7 10	20 20.84	-20 16.8	1.882	2.876	5.2	21.0	7 10	20 20.73	-13 28.1	1.834	2.821	6.2	20.4
7 20	20 12.43	-20 43.2	1.844	2.859	1.2	20.7	7 20	20 12.44	-14 36.2	1.806	2.817	2.5	20.2
7 30	20 3.54	-21 8.6	1.834	2.842	3.0	20.8	7 30	20 3.70	-15 49.7	1.805	2.813	3.1	20.2
8 9	19 55.16	-21 30.1	1.851	2.825	7.0	21.0	8 9	19 55.50	-17 3.5	1.832	2.809	6.9	20.5
8 19	19 48.19	-21 45.8	1.893	2.808	10.8	21.2	8 19	19 48.70	-18 12.9	1.885	2.804	10.6	20.7
8 29	19 43.34	-21 55.0	1.957	2.791	14.0	21.4	8 29	19 44.00	-19 14.7	1.961	2.800	13.8	20.9
150590	2000 <i>WQ</i> ₇₅		7 22.9 148°46	4°2/25.5 18			186352	2002 <i>FJ</i> ₁₅		7 22.9 53°14	1°9/21.8 18		
6 20	20 32.21	-5 21.9	2.747	3.568	11.0	20.6	6 20	20 32.09	-22 45.7	2.029	2.913	11.8	19.5
6 30	20 26.65	-4 56.8	2.674	3.576	8.7	20.5	6 30	20 27.07	-23 36.9	1.973	2.924	8.6	19.3
7 10	20 19.80	-4 42.0	2.625	3.583	6.4	20.4	7 10	20 20.26	-24 31.1	1.940	2.935	5.0	19.1
7 20	20 12.16	-4 37.8	2.603	3.590	4.6	20.3	7 20	20 12.30	-25 23.9	1.934	2.947	2.0	18.9
7 30	20 4.32	-4 43.4	2.610	3.596	4.5	20.3	7 30	20 4.09	-26 10.6	1.955	2.958	3.7	19.1
8 9	19 56.95	-4 57.4	2.644	3.602	6.1	20.4	8 9	19 56.56	-26 48.1	2.003	2.970	7.2	19.3
8 19	19 50.60	-5 17.5	2.705	3.608	8.4	20.5	8 19	19 50.52	-27 14.7	2.076	2.982	10.4	19.5
8 29	19 45.74	-5 41.4	2.790	3.614	10.6	20.7	8 29	19 46.56	-27 30.4	2.172	2.994	13.2	19.7
92619	2000 <i>QW</i> ₄		7 22.9 306°50	3°0/24.2 18			77054	2001 <i>DG</i> ₇					

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
183791	2004 <i>BU</i> ₃₇	7 22.9 156°81		0°8/22.5 18			65219	2002 <i>EY</i> ₂₁	7 22.9 263°83		4°7/25.8 18		
6 20	20 37.20	-20 9.6	1.849	2.725	13.2	21.0	6 20	20 30.51	-4 49.1	2.360	3.190	12.3	19.7
6 30	20 30.94	-20 46.4	1.784	2.731	9.6	20.8	6 30	20 25.76	-4 39.8	2.272	3.178	9.8	19.5
7 10	20 22.58	-21 28.5	1.743	2.737	5.5	20.5	7 10	20 19.48	-4 43.7	2.206	3.167	7.2	19.3
7 20	20 12.85	-22 11.7	1.728	2.743	1.4	20.3	7 20	20 12.16	-5 0.8	2.166	3.155	5.1	19.2
7 30	20 2.78	-22 51.2	1.741	2.748	3.4	20.4	7 30	20 4.47	-5 30.0	2.152	3.143	4.9	19.2
8 9	19 53.47	-23 23.6	1.781	2.752	7.5	20.7	8 9	19 57.19	-6 8.7	2.166	3.131	6.9	19.3
8 19	19 45.89	-23 47.2	1.846	2.755	11.3	20.9	8 19	19 50.99	-6 53.7	2.206	3.118	9.6	19.4
8 29	19 40.70	-24 1.5	1.933	2.759	14.5	21.1	8 29	19 46.48	-7 41.6	2.269	3.106	12.2	19.6
340522	2006 <i>JO</i> ₃₃	7 22.9 10°63		7°9/18.2 16			273781	2007 <i>EP</i> ₂₁₉	7 22.9 181°77		1°4/23.8 18		
6 20	20 37.65	-37 45.8	1.789	2.668	13.4	20.5	6 20	20 34.57	-13 59.4	2.036	2.899	12.7	21.4
6 30	20 31.81	-39 13.2	1.734	2.668	10.7	20.3	6 30	20 28.90	-14 28.2	1.962	2.899	9.4	21.2
7 10	20 23.32	-40 32.2	1.702	2.668	8.5	20.2	7 10	20 21.37	-15 6.9	1.911	2.900	5.8	21.0
7 20	20 13.05	-41 34.2	1.695	2.669	7.9	20.1	7 20	20 12.60	-15 52.6	1.887	2.900	2.1	20.7
7 30	20 2.27	-42 13.0	1.713	2.669	9.2	20.2	7 30	20 3.46	-16 41.7	1.891	2.899	2.9	20.8
8 9	19 52.43	-42 26.1	1.755	2.669	11.6	20.4	8 9	19 54.91	-17 30.1	1.923	2.898	6.7	21.0
8 19	19 44.73	-42 15.2	1.819	2.670	14.3	20.5	8 19	19 47.79	-18 14.7	1.980	2.896	10.3	21.3
8 29	19 40.01	-41 44.7	1.901	2.670	16.7	20.7	8 29	19 42.74	-18 53.4	2.061	2.894	13.4	21.5
16280	Grossin	7 22.9 339°89		4°3/24.7 18			158903	2004 <i>QL</i> ₂₁	7 22.9 335°26		1°2/23.5 18		
6 20	20 29.43	-10 25.2	1.040	1.938	19.3	16.9	6 20	20 33.37	-15 29.4	1.575	2.457	14.8	20.1
6 30	20 26.45	-10 25.2	0.974	1.927	14.9	16.6	6 30	20 28.48	-15 48.9	1.506	2.454	11.0	19.8
7 10	20 20.51	-10 46.5	0.926	1.916	9.9	16.3	7 10	20 21.31	-16 19.1	1.459	2.452	6.6	19.6
7 20	20 12.45	-11 28.0	0.898	1.907	5.2	16.0	7 20	20 12.61	-16 56.8	1.436	2.450	2.1	19.3
7 30	20 3.65	-12 25.4	0.891	1.899	5.4	16.0	7 30	20 3.46	-17 37.8	1.438	2.448	3.4	19.4
8 9	19 55.76	-13 31.2	0.906	1.892	10.3	16.2	8 9	19 55.07	-18 17.6	1.467	2.446	8.0	19.6
8 19	19 50.22	-14 37.7	0.941	1.886	15.6	16.5	8 19	19 48.47	-18 52.8	1.519	2.444	12.2	19.9
8 29	19 48.05	-15 38.4	0.993	1.882	20.2	16.8	8 29	19 44.43	-19 21.2	1.592	2.443	15.8	20.1
336866	2011 <i>FG</i> ₁₄₅	7 22.9 53°28		0°1/22.9 17			358765	2008 <i>CW</i> ₂₁₅	7 22.9 5°38		10°9/18.1 18		
6 20	20 37.82	-20 55.1	1.554	2.439	14.7	19.9	6 20	20 44.25	-49 48.3	1.910	2.750	14.4	20.4
6 30	20 31.58	-20 42.0	1.494	2.446	10.8	19.7	6 30	20 36.70	-50 41.9	1.862	2.750	12.6	20.3
7 10	20 22.99	-20 31.9	1.457	2.452	6.3	19.4	7 10	20 26.12	-51 16.2	1.835	2.751	11.3	20.2
7 20	20 12.94	-20 22.2	1.444	2.459	1.4	19.1	7 20	20 13.69	-51 23.8	1.830	2.752	10.9	20.2
7 30	20 2.64	-20 10.8	1.457	2.466	3.5	19.3	7 30	20 1.07	-51 0.5	1.848	2.753	11.7	20.2
8 9	19 53.37	-19 56.1	1.496	2.473	8.1	19.6	8 9	19 49.97	-50 7.3	1.888	2.755	13.2	20.4
8 19	19 46.14	-19 38.1	1.559	2.480	12.3	19.9	8 19	19 41.61	-48 49.3	1.949	2.757	15.1	20.5
8 29	19 41.64	-19 17.1	1.643	2.487	15.8	20.1	8 29	19 36.71	-47 13.4	2.029	2.760	16.9	20.6
76969	2001 <i>BX</i> ₄₉	7 22.9 114°16		0°1/22.9 17			517708	2015 <i>GA</i> ₅₂	7 22.9 323°96		0°6/22.6 17		
6 20	20 37.36	-17 45.1	1.635	2.512	14.5	19.8	6 20	20 32.31	-17 51.6	1.598	2.486	14.3	20.9
6 30	20 31.15	-18 16.7	1.579	2.527	10.6	19.6	6 30	20 27.79	-18 49.5	1.527	2.480	10.5	20.7
7 10	20 22.71	-18 56.2	1.546	2.541	6.2	19.4	7 10	20 20.97	-19 58.3	1.478	2.474	6.1	20.4
7 20	20 12.88	-19 39.1	1.539	2.554	1.4	19.1	7 20	20 12.55	-21 12.5	1.454	2.469	1.4	20.1
7 30	20 2.78	-20 20.8	1.558	2.567	3.3	19.2	7 30	20 3.59	-22 25.6	1.456	2.464	3.6	20.2
8 9	19 53.61	-20 57.1	1.604	2.580	7.8	19.5	8 9	19 55.31	-23 31.6	1.484	2.459	8.3	20.5
8 19	19 46.35	-21 25.9	1.675	2.592	11.8	19.8	8 19	19 48.78	-24 26.3	1.535	2.455	12.5	20.7
8 29	19 41.58	-21 46.1	1.766	2.603	15.1	20.1	8 29	19 44.82	-25 7.9	1.608	2.450	16.1	20.9
364455	2006 <i>YI</i> ₅₅	7 22.9 179°17		2°6/20.9 18			418932	2009 <i>DL</i> ₁₁	7 22.9 198°60		0°2/23.0 16		
6 20	20 33.73	-28 48.8	3.107	3.975	8.6	22.4	6 20	20 37.02	-17 41.1	1.471	2.355	15.5	21.7
6 30	20 27.80	-29 24.7	3.036	3.977	6.4	22.3	6 30	20 31.32	-18 9.9	1.403	2.354	11.4	21.5
7 10	20 20.51	-29 59.0	2.991	3.978	4.1	22.1	7 10	20 23.05	-18 48.2	1.357	2.352	6.7	21.2
7 20	20 12.36	-30 28.4	2.974	3.978	2.6	22.0	7 20	20 13.03	-19 31.5	1.335	2.350	1.6	20.9
7 30	20 3.97	-30 50.4	2.987	3.978	3.7	22.1	7 30	20 2.49	-20 14.7	1.339	2.348	3.7	20.9
8 9	19 56.04	-31 3.4	3.029	3.978	5.9	22.3	8 9	19 52.82	-20 52.9	1.369	2.346	8.7	21.3
8 19	19 49.17	-31 7.2	3.097	3.977	8.2	22.4	8 19	19 45.19	-21 23.1	1.422	2.343	13.2	21.6
8 29	19 43.84	-31 2.3	3.189	3.975	10.2	22.6	8 29	19 40.45	-21 44.2	1.495	2.340	17.0	21.8
431082	2006 <i>DK</i> ₂₉	7 22.9 279°71		1°1/22.4 16			177792	2005 <i>LW</i> ₂₂	7 22.9 334°40		0°2/23.0 18		
6 20	20 34.18	-20 37.0	1.711	2.597	13.6	21.3	6 20	20 32.58	-18 34.5	1.850	2.731	12.9	20.1
6 30	20 29.05	-21 12.5	1.636	2.588	9.9	21.1	6 30	20 27.64	-18 46.8	1.777	2.726	9.5	19.9
7 10	20 21.65	-21 54.2	1.583	2.579	5.8	20.8	7 10	20 20.71	-19 5.3	1.727	2.722	5.6	19.6
7 20	20 12.68	-22 37.6	1.555	2.570	1.5	20.5	7 20	20 12.47	-19 26.9	1.703	2.718	1.3	19.3
7 30	20 3.20	-23 17.9	1.554	2.561	3.7	20.6	7 30	20 3.86	-19 48.6	1.705	2.714	3.0	19.4
8 9	19 54.39	-23 50.9	1.579	2.552	8.1	20.9	8 9	19 55.91	-20 7.5	1.734	2.711	7.2	19.7
8 19	19 47.30	-24 14.4	1.628	2.544	12.2	21.1	8 19	19 49.52	-20 21.6	1.787	2.708	11.0	19.9
8 29	19 42.74	-24 27.9	1.698	2.535	15.7	21.3	8 29	19 45.36	-20 29.9	1.862	2.705	14.3	20.1
170856	2004 <i>FB</i> ₁₁₈	7 22.9 198°77		1°0/22.4 18			438535	2007 <i>TS</i> ₁₁₁	7 22.9 316°06		5°8/25.3 18		
6 20	20 33.15	-21 10.7	2.049	2.929	11.9	20.4	6 20	20 31.42	-6 27.9	1.636	2.492	15.6	20.6
6 30	20 27.89	-21 42.8	1.979	2.929	8.7	20.2	6 30	20 27.05	-5 56.5	1.553	2.476	12.5	20.4
7 10	20 20.78	-22 19.1	1.933	2.928	5.0	20.0	7 10	20 20.51	-5 40.7	1.490	2.461	9.1	20.1
7 20	20 12.45	-22 55.8	1.913	2.928	1.4	19.7	7 20	20 12.46	-5 41.6	1.451	2.445	6.3	19.9
7 30	20 3.79	-23 29.1	1.921	2.928	3.2	19.9	7 30	20 3.84	-5 58.5	1.436	2.431	6.2	19.9
8 9	19 55.76	-23 56.1	1.956	2.927	7.0	20.1	8 9	19 55.78	-6 28.7	1.446	2.416	9.0	20.0
8 19	19 49.18	-24 15.0	2.016	2.927	10.4	20.3	8 19	19 49.30	-7 8.2	1.479	2.403	12.6	20.2
8 29	19 44.71	-24 25.6	2.099	2.926	13.4	20.5	8 29	19 45.21	-7 52.2	1.533	2.390	16.1	20.4
359331	2009 <i>OD</i> ₁₂	7 22.9 330°51		6°3/26.1 18			122436	2000 <i>QU</i> ₁₂₀	7 22.9 312°08		0°7/23.2 18		
6 20													

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
274639	2008 <i>TQ</i> ₁₁₁		7 22.9 352°30	1.5/22.5	16		476075	2007 <i>TY</i> ₂₁		7 22.9 225°97	4.7/25.7	18	
6 20	20 31.46	-22 48.3	1.146	2.058	16.8	19.3	6 20	20 32.69	-4 31.6	2.514	3.335	11.9	21.8
6 30	20 27.78	-22 50.7	1.084	2.049	12.4	19.0	6 30	20 27.28	-4 13.4	2.424	3.325	9.5	21.7
7 10	20 21.19	-22 56.4	1.042	2.042	7.2	18.7	7 10	20 20.36	-4 7.2	2.357	3.314	7.1	21.5
7 20	20 12.62	-23 1.2	1.021	2.036	2.0	18.3	7 20	20 12.42	-4 13.3	2.316	3.302	5.1	21.3
7 30	20 3.53	-23 0.9	1.023	2.032	4.6	18.5	7 30	20 4.13	-4 31.1	2.303	3.290	4.9	21.3
8 9	19 55.53	-22 52.8	1.047	2.029	10.0	18.8	8 9	19 56.23	-4 58.5	2.317	3.277	6.8	21.4
8 19	19 49.93	-22 36.2	1.092	2.028	14.9	19.1	8 19	19 49.38	-5 32.8	2.358	3.264	9.3	21.6
8 29	19 47.61	-22 12.1	1.156	2.028	19.1	19.3	8 29	19 44.16	-6 11.0	2.422	3.250	11.8	21.7
373707	2002 <i>RK</i> ₂₄₇		7 22.9 312°84	3.5/21.7	18		146238	2000 <i>WZ</i> ₁₅₄		7 22.9 266°18	2.1/21.8	18	
6 20	20 35.10	-25 46.4	1.260	2.164	16.2	21.1	6 20	20 34.56	-25 51.5	2.349	3.226	10.7	20.2
6 30	20 30.65	-26 18.3	1.181	2.141	12.0	20.7	6 30	20 28.87	-26 12.5	2.263	3.210	7.9	20.0
7 10	20 23.06	-26 52.6	1.121	2.118	7.4	20.4	7 10	20 21.38	-26 33.6	2.201	3.193	4.8	19.7
7 20	20 13.12	-27 22.7	1.084	2.096	3.6	20.1	7 20	20 12.67	-26 51.3	2.165	3.176	2.2	19.5
7 30	20 2.25	-27 41.9	1.071	2.074	6.0	20.2	7 30	20 3.55	-27 2.5	2.159	3.160	3.7	19.6
8 9	19 52.22	-27 45.7	1.080	2.053	11.0	20.4	8 9	19 54.94	-27 5.3	2.179	3.143	6.9	19.8
8 19	19 44.55	-27 33.6	1.110	2.032	16.0	20.6	8 19	19 47.66	-26 59.1	2.226	3.125	10.1	20.0
8 29	19 40.39	-27 7.3	1.159	2.012	20.3	20.8	8 29	19 42.35	-26 44.7	2.295	3.108	12.9	20.1
35049	1981 <i>EE</i> ₄₆		7 22.9 346°19	0.7/22.7	18		69444	1996 <i>RN</i> ₁₇		7 22.9 129°75	4.3/21.4	17	
6 20	20 32.54	-21 31.6	1.738	2.627	13.2	18.6	6 20	20 40.26	-28 36.2	1.462	2.353	15.2	19.4
6 30	20 27.73	-21 36.0	1.667	2.620	9.7	18.3	6 30	20 33.77	-29 12.6	1.404	2.356	11.3	19.2
7 10	20 20.82	-21 43.7	1.618	2.614	5.6	18.1	7 10	20 24.49	-29 46.6	1.368	2.360	7.1	19.0
7 20	20 12.51	-21 51.7	1.594	2.609	1.4	17.8	7 20	20 13.41	-30 11.4	1.356	2.363	4.3	18.8
7 30	20 3.83	-21 56.9	1.596	2.604	3.4	17.9	7 30	20 1.94	-30 21.6	1.369	2.366	6.1	18.9
8 9	19 55.89	-21 57.3	1.624	2.600	7.6	18.2	8 9	19 51.64	-30 15.3	1.407	2.369	10.1	19.2
8 19	19 49.64	-21 51.9	1.676	2.597	11.5	18.4	8 19	19 43.72	-29 53.7	1.468	2.372	14.0	19.4
8 29	19 45.77	-21 40.7	1.749	2.594	14.9	18.6	8 29	19 38.96	-29 20.1	1.549	2.375	17.4	19.6
249222	2008 <i>ES</i> ₁₀₃		7 22.9 330°06	1.7/23.9	18		230338	2002 <i>CC</i> ₁₈₆		7 22.9 205°29	1.9/22.0	18	
6 20	20 30.90	-13 40.8	1.941	2.812	12.9	20.5	6 20	20 37.05	-24 9.5	1.993	2.871	12.3	21.3
6 30	20 26.34	-13 57.9	1.865	2.806	9.6	20.3	6 30	20 30.86	-24 35.3	1.919	2.867	9.0	21.1
7 10	20 19.94	-14 25.3	1.812	2.802	6.0	20.1	7 10	20 22.60	-25 2.5	1.870	2.863	5.3	20.9
7 20	20 12.32	-15 0.7	1.785	2.797	2.4	19.9	7 20	20 12.97	-25 27.0	1.846	2.859	2.1	20.7
7 30	20 4.31	-15 40.9	1.784	2.792	3.1	19.9	7 30	20 2.95	-25 45.1	1.851	2.854	3.8	20.8
8 9	19 56.88	-16 22.2	1.810	2.788	6.8	20.1	8 9	19 53.64	-25 54.4	1.882	2.849	7.6	21.0
8 19	19 50.83	-17 1.3	1.861	2.784	10.5	20.3	8 19	19 45.94	-25 54.4	1.939	2.844	11.1	21.2
8 29	19 46.85	-17 35.8	1.935	2.781	13.7	20.5	8 29	19 40.57	-25 45.6	2.018	2.838	14.2	21.4
75184	1999 <i>VF</i> ₁₆₀		7 22.9 223°29	1.9/22.1	18		198594	2005 <i>AR</i> ₁		7 22.9 287°84	1.2/23.6	18	
6 20	20 37.95	-23 10.1	1.726	2.609	13.6	20.0	6 20	20 33.67	-14 42.3	1.820	2.692	13.6	19.8
6 30	20 31.82	-23 42.3	1.652	2.602	10.0	19.7	6 30	20 28.77	-15 9.1	1.719	2.662	10.2	19.6
7 10	20 23.29	-24 17.8	1.600	2.594	5.9	19.5	7 10	20 21.64	-15 47.6	1.641	2.632	6.3	19.3
7 20	20 13.12	-24 51.7	1.573	2.587	2.1	19.2	7 20	20 12.81	-16 35.3	1.588	2.602	2.1	18.9
7 30	20 2.43	-25 19.1	1.574	2.578	4.2	19.3	7 30	20 3.21	-17 28.1	1.562	2.571	3.3	18.9
8 9	19 52.49	-25 36.8	1.601	2.570	8.4	19.6	8 9	19 53.96	-18 21.2	1.563	2.540	7.8	19.1
8 19	19 44.40	-25 43.7	1.652	2.560	12.4	19.8	8 19	19 46.15	-19 10.8	1.588	2.509	12.1	19.3
8 29	19 38.98	-25 40.4	1.724	2.551	15.9	20.0	8 29	19 40.69	-19 53.6	1.635	2.478	15.9	19.5
199898	2007 <i>FD</i> ₄₂		7 22.9 357°22	2.8/24.1	16		168833	2000 <i>SP</i> ₃₄₃		7 22.9 21°31	0.4/23.1	17	
6 20	20 31.31	-13 12.6	1.300	2.190	16.7	20.5	6 20	20 37.39	-19 12.3	1.233	2.129	17.1	19.6
6 30	20 27.30	-13 12.1	1.237	2.187	12.6	20.2	6 30	20 31.86	-19 5.5	1.175	2.131	12.6	19.3
7 10	20 20.77	-13 25.7	1.193	2.185	8.0	19.9	7 10	20 23.46	-19 5.3	1.136	2.133	7.4	19.1
7 20	20 12.54	-13 51.4	1.172	2.183	3.5	19.7	7 20	20 13.20	-19 8.5	1.120	2.135	1.8	18.7
7 30	20 3.84	-14 25.4	1.174	2.183	4.2	19.7	7 30	20 2.51	-19 11.7	1.129	2.138	4.0	18.9
8 9	19 56.02	-15 2.9	1.200	2.183	8.8	20.0	8 9	19 53.00	-19 12.0	1.161	2.141	9.4	19.2
8 19	19 50.23	-15 39.6	1.249	2.184	13.4	20.3	8 19	19 45.89	-19 8.3	1.215	2.145	14.2	19.5
8 29	19 47.29	-16 11.8	1.316	2.186	17.4	20.5	8 29	19 42.01	-19 0.0	1.288	2.149	18.3	19.8
369039	2008 <i>BK</i> ₁₅		7 22.9 186°23	0.3/22.9	17		138877	2000 <i>XG</i> ₄₇		7 22.9 60°72	18.4/21.4	09 CA	
6 20	20 40.74	-21 12.1	1.736	2.611	13.9	21.4	6 20	21 25.65	-57 43.1	1.175	1.981	23.4	19.5
6 30	20 33.65	-21 1.7	1.665	2.611	10.2	21.1	6 30	21 8.79	-60 26.9	1.204	2.049	20.8	19.6
7 10	20 24.23	-20 53.5	1.617	2.611	6.0	20.9	7 10	20 45.02	-62 19.0	1.252	2.114	19.1	19.7
7 20	20 13.32	-20 44.8	1.595	2.610	1.4	20.6	7 20	20 17.93	-63 5.9	1.318	2.178	18.4	19.8
7 30	20 2.05	-20 33.2	1.600	2.609	3.3	20.7	7 30	19 52.63	-62 47.9	1.403	2.239	18.7	20.0
8 9	19 51.69	-20 17.7	1.633	2.607	7.8	21.0	8 9	19 33.11	-61 39.2	1.506	2.299	19.5	20.3
8 19	19 43.26	-19 58.1	1.691	2.605	11.9	21.2	8 19	19 20.80	-59 58.2	1.625	2.357	20.6	20.5
8 29	19 37.49	-19 35.2	1.770	2.602	15.3	21.5	8 29	19 15.31	-58 0.7	1.757	2.413	21.5	20.8
435739	2008 <i>UB</i> ₁₃₁		7 22.9 305°30	1.4/23.6	18		215637	2003 <i>TG</i> ₄₁		7 22.9 83°46	1.1/23.4	17	
6 20	20 33.66	-16 0.0	1.650	2.530	14.3	21.2	6 20	20 38.52	-16 56.0	1.400	2.283	16.2	20.5
6 30	20 28.67	-16 3.1	1.573	2.520	10.7	21.0	6 30	20 32.22	-16 56.9	1.350	2.298	11.9	20.3
7 10	20 21.45	-16 15.1	1.519	2.511	6.5	20.7	7 10	20 23.45	-17 6.4	1.320	2.314	7.1	20.0
7 20	20 12.70	-16 33.6	1.489	2.503	2.2	20.4	7 20	20 13.17	-17 21.3	1.315	2.329	2.1	19.8
7 30	20 3.46	-16 55.5	1.485	2.494	3.4	20.5	7 30	20 2.67	-17 38.0	1.336	2.345	3.6	19.9
8 9	19 54.91	-17 17.6	1.507	2.485	7.8	20.7	8 9	19 53.33	-17 53.3	1.381	2.360	8.4	20.2
8 19	19 48.07	-17 37.3	1.552	2.477	12.0	21.0	8 19	19 46.19	-18 5.1	1.450	2.375	12.7	20.5
8 29	19 43.72	-17 52.6	1.619	2.469	15.7	21.2	8 29	19 41.92	-18 12.3	1.540	2.389	16.4	20.8
183917	2004 <i>CF</i> ₁₀₅		7 22.9 101°49	1.0/23.4	17		42547 </						

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
316079	2009 <i>JV</i> ₁₆		7 22.9 58°66	0°6/22.7	17		508899	2003 <i>UD</i> ₃₁₆		7 22.9 287°04	10°1/15.9	18	
6 20	20 36.52	-18 55.0	1.238	2.134	17.0	20.4	6 20	20 40.62	-43 58.0	1.862	2.724	13.7	20.7
6 30	20 31.04	-19 35.1	1.194	2.151	12.3	20.2	6 30	20 34.53	-45 35.1	1.790	2.702	11.7	20.5
7 10	20 22.87	-20 23.9	1.171	2.169	7.1	19.9	7 10	20 25.30	-47 1.1	1.740	2.679	10.4	20.4
7 20	20 13.04	-21 15.4	1.171	2.186	1.6	19.7	7 20	20 13.72	-48 6.2	1.714	2.656	10.2	20.3
7 30	20 2.98	-22 2.9	1.196	2.205	4.1	19.9	7 30	20 1.21	-48 42.7	1.711	2.633	11.5	20.4
8 9	19 54.17	-22 41.4	1.245	2.223	9.2	20.2	8 9	19 49.49	-48 47.6	1.731	2.610	13.6	20.5
8 19	19 47.75	-23 8.8	1.316	2.242	13.7	20.5	8 19	19 40.10	-48 22.9	1.772	2.587	16.1	20.6
8 29	19 44.41	-23 24.4	1.407	2.260	17.4	20.8	8 29	19 34.14	-47 34.0	1.829	2.564	18.4	20.7
174069	2002 <i>EJ</i> ₇₁		7 22.9 33°25	4°2/24.7	17		438721	2008 <i>SO</i> ₂₁₁		7 22.9 227°81	1°6/22.1	18	
6 20	20 33.89	-10 42.2	1.162	2.048	18.6	19.5	6 20	20 34.78	-22 18.6	1.978	2.858	12.3	21.6
6 30	20 29.25	-10 30.8	1.110	2.056	14.2	19.3	6 30	20 29.26	-22 57.6	1.903	2.852	9.0	21.4
7 10	20 21.92	-10 37.1	1.077	2.064	9.4	19.1	7 10	20 21.72	-23 40.4	1.852	2.847	5.2	21.1
7 20	20 12.85	-10 59.7	1.066	2.074	5.0	18.8	7 20	20 12.81	-24 22.8	1.827	2.841	1.8	20.9
7 30	20 3.41	-11 34.8	1.077	2.083	5.2	18.9	7 30	20 3.47	-25 0.4	1.830	2.835	3.7	21.0
8 9	19 55.10	-12 17.1	1.112	2.094	9.5	19.2	8 9	19 54.75	-25 29.8	1.860	2.828	7.5	21.2
8 19	19 49.08	-13 1.0	1.168	2.105	14.1	19.5	8 19	19 47.57	-25 49.3	1.914	2.822	11.1	21.5
8 29	19 46.13	-13 42.0	1.244	2.116	18.0	19.7	8 29	19 42.63	-25 58.9	1.991	2.815	14.2	21.6
359589	2010 <i>UB</i> ₉₅		7 22.9 268°64	4°4/20.1	18		440480	2005 <i>TU</i> ₁₃		7 22.9 290°75	3°8/24.9	18	
6 20	20 33.97	-31 59.0	2.340	3.218	10.7	20.5	6 20	20 31.53	- 8 36.6	2.144	2.993	12.7	21.6
6 30	20 28.52	-32 51.0	2.269	3.211	8.1	20.3	6 30	20 26.78	- 8 26.7	2.046	2.969	9.9	21.4
7 10	20 21.22	-33 39.8	2.223	3.205	5.6	20.1	7 10	20 20.27	- 8 28.6	1.971	2.945	6.9	21.1
7 20	20 12.67	-34 20.4	2.203	3.198	4.4	20.0	7 20	20 12.48	- 8 41.9	1.921	2.921	4.3	20.9
7 30	20 3.75	-34 48.8	2.210	3.191	5.6	20.1	7 30	20 4.19	- 9 5.4	1.898	2.897	4.3	20.9
8 9	19 55.40	-35 2.7	2.244	3.184	8.1	20.2	8 9	19 56.26	- 9 36.7	1.901	2.873	7.1	21.0
8 19	19 48.48	-35 2.1	2.302	3.177	10.8	20.4	8 19	19 49.52	-10 12.7	1.930	2.849	10.4	21.2
8 29	19 43.65	-34 48.4	2.382	3.170	13.2	20.6	8 29	19 44.67	-10 50.1	1.982	2.825	13.5	21.3
273527	2007 <i>BX</i> ₂₆		7 22.9 250°81	1°0/22.6	18		280322	2003 <i>RX</i> ₂₄		7 22.9 348°44	0°6/23.2	18	
6 20	20 39.13	-22 35.5	1.760	2.639	13.6	21.5	6 20	20 31.30	-18 57.7	1.236	2.139	16.5	20.0
6 30	20 32.67	-22 36.2	1.678	2.626	10.0	21.3	6 30	20 27.52	-18 48.8	1.169	2.129	12.2	19.7
7 10	20 23.81	-22 38.6	1.618	2.613	5.9	21.0	7 10	20 21.03	-18 46.9	1.122	2.120	7.2	19.4
7 20	20 13.30	-22 39.3	1.584	2.599	1.6	20.7	7 20	20 12.69	-18 49.5	1.098	2.113	1.9	19.1
7 30	20 2.26	-22 35.3	1.577	2.584	3.6	20.8	7 30	20 3.80	-18 53.3	1.096	2.106	3.9	19.2
8 9	19 51.95	-22 24.8	1.597	2.570	8.1	21.0	8 9	19 55.86	-18 55.4	1.118	2.101	9.2	19.5
8 19	19 43.47	-22 7.7	1.642	2.555	12.2	21.2	8 19	19 50.10	-18 53.8	1.161	2.098	14.1	19.7
8 29	19 37.64	-21 44.9	1.708	2.539	15.8	21.4	8 29	19 47.39	-18 47.5	1.223	2.096	18.3	20.0
521571	2015 <i>OO</i> ₁₀₅		7 22.9 41°53	5°7/20.3	18		125757	2001 <i>XA</i> ₁₂₉		7 22.9 290°92	0°7/23.4	18	
6 20	20 37.16	-36 7.0	2.070	2.945	12.0	20.5	6 20	20 32.00	-16 33.2	2.027	2.901	12.3	20.5
6 30	20 30.89	-36 40.3	2.017	2.953	9.3	20.3	6 30	20 27.15	-16 53.0	1.947	2.892	9.1	20.3
7 10	20 22.55	-37 5.3	1.987	2.961	6.9	20.2	7 10	20 20.46	-17 20.5	1.891	2.883	5.4	20.0
7 20	20 12.95	-37 17.1	1.983	2.970	5.7	20.1	7 20	20 12.52	-17 53.1	1.860	2.874	1.6	19.7
7 30	20 3.19	-37 12.4	2.005	2.978	6.7	20.2	7 30	20 4.18	-18 27.5	1.856	2.865	2.8	19.8
8 9	19 54.37	-36 50.7	2.052	2.987	9.1	20.3	8 9	19 56.37	-19 0.4	1.880	2.857	6.7	20.1
8 19	19 47.38	-36 14.0	2.124	2.996	11.7	20.5	8 19	19 49.92	-19 29.4	1.929	2.848	10.4	20.3
8 29	19 42.82	-35 25.5	2.217	3.006	14.0	20.7	8 29	19 45.53	-19 52.7	2.000	2.839	13.5	20.5
424473	2008 <i>CV</i> ₁₉₁		7 22.9 208°09	2°1/24.0	17		507364	2011 <i>WE</i> ₁₅₃		7 22.9 186°34	0°1/22.9	18	
6 20	20 35.53	-13 4.8	1.687	2.555	14.6	21.9	6 20	20 31.79	-17 33.1	2.533	3.400	10.4	21.7
6 30	20 29.99	-13 22.3	1.612	2.552	11.0	21.7	6 30	20 26.67	-18 18.9	2.457	3.400	7.6	21.6
7 10	20 22.22	-13 52.1	1.560	2.548	6.9	21.4	7 10	20 20.04	-19 11.1	2.407	3.399	4.4	21.4
7 20	20 12.93	-14 31.5	1.533	2.545	2.8	21.2	7 20	20 12.42	-20 6.4	2.383	3.398	1.0	21.1
7 30	20 3.16	-15 16.6	1.532	2.540	3.5	21.2	7 30	20 4.48	-21 1.3	2.389	3.397	2.4	21.2
8 9	19 54.07	-16 3.1	1.558	2.536	7.8	21.4	8 9	19 56.98	-21 52.4	2.424	3.396	5.8	21.4
8 19	19 46.69	-16 46.9	1.609	2.531	11.9	21.7	8 19	19 50.59	-22 37.2	2.485	3.394	8.8	21.6
8 29	19 41.78	-17 25.4	1.681	2.525	15.4	21.9	8 29	19 45.87	-23 14.3	2.571	3.392	11.4	21.8
162403	2000 <i>DA</i> ₄₁		7 22.9 160°05	1°2/22.3	17		392637	2011 <i>UO</i> ₁₁₄		7 22.9 316°48	0°6/22.6	18	
6 20	20 35.67	-22 52.1	2.508	3.377	10.4	21.1	6 20	20 32.29	-20 9.3	1.852	2.736	12.8	21.1
6 30	20 29.41	-23 13.9	2.440	3.383	7.5	20.9	6 30	20 27.55	-20 35.2	1.775	2.726	9.4	20.8
7 10	20 21.57	-23 37.1	2.397	3.390	4.4	20.7	7 10	20 20.78	-21 6.6	1.721	2.716	5.4	20.6
7 20	20 12.73	-23 58.8	2.382	3.395	1.4	20.5	7 20	20 12.62	-21 40.2	1.692	2.707	1.3	20.3
7 30	20 3.68	-24 16.3	2.396	3.401	2.9	20.7	7 30	20 4.01	-22 11.8	1.689	2.697	3.3	20.4
8 9	19 55.21	-24 27.7	2.438	3.405	6.1	20.9	8 9	19 56.01	-22 38.2	1.713	2.688	7.4	20.7
8 19	19 48.03	-24 32.4	2.508	3.409	9.0	21.1	8 19	19 49.55	-22 57.2	1.762	2.679	11.3	20.9
8 29	19 42.69	-24 30.4	2.601	3.413	11.6	21.2	8 29	19 45.36	-23 8.1	1.832	2.671	14.6	21.1
320914	2008 <i>GZ</i> ₉₅		7 22.9 346°41	2°5/24.4	18		239765	2010 <i>CO</i> ₃₄		7 22.9 100°18	6°4/20.3	18	
6 20	20 29.21	-11 43.4	1.781	2.653	13.8	20.3	6 20	20 41.03	-36 32.3	1.868	2.741	13.2	20.0
6 30	20 25.27	-12 0.6	1.706	2.646	10.4	20.0	6 30	20 33.92	-37 12.5	1.816	2.751	10.3	19.9
7 10	20 19.41	-12 30.8	1.653	2.640	6.7	19.8	7 10	20 24.41	-37 43.4	1.787	2.760	7.6	19.7
7 20	20 12.27	-13 12.0	1.624	2.634	3.2	19.6	7 20	20 13.43	-37 58.8	1.783	2.769	6.4	19.7
7 30	20 4.72	-14 0.6	1.622	2.629	3.5	19.6	7 30	20 2.26	-37 54.8	1.806	2.778	7.5	19.7
8 9	19 57.74	-14 52.4	1.645	2.625	7.2	19.8	8 9	19 52.22	-37 31.0	1.853	2.787	10.0	19.9
8 19	19 52.23	-15 43.1	1.693	2.621	11.0	20.0	8 19	19 44.32	-36 50.0	1.925	2.795	12.8	20.1
8 29	19 48.86	-16 29.2	1.763	2.618	14.3	20.2	8 29	19 39.23	-35 56.3	2.016	2.804	15.3	20.3
46065	2001 <i>DB</i> ₉₃		7 22.9 15°26	4°1/24.9	18		12016						

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	2020	α_{2000}	δ_{2000}	Δ	r	β	V
444645	2006 <i>YJ</i> ₅₂		7 22.9 276°89	1.7/22.2	18		429438	2010 <i>VL</i> ₅₄		7 23.0 226°92	0.4/22.8	17	
6 20	20 35.08	-24 54.1	2.175	3.053	11.4	21.1	6 20	20 37.99	-19 56.3	1.818	2.693	13.4	22.3
6 30	20 29.32	-25 3.2	2.095	3.043	8.3	20.9	6 30	20 31.79	-20 12.8	1.737	2.683	9.9	22.1
7 10	20 21.69	-25 12.4	2.040	3.033	5.0	20.7	7 10	20 23.31	-20 34.3	1.679	2.673	5.8	21.8
7 20	20 12.83	-25 18.6	2.010	3.023	1.9	20.5	7 20	20 13.28	-20 57.5	1.648	2.663	1.4	21.5
7 30	20 3.61	-25 18.9	2.009	3.013	3.5	20.5	7 30	20 2.72	-21 18.7	1.644	2.652	3.3	21.6
8 9	19 55.01	-25 12.0	2.035	3.003	7.0	20.7	8 9	19 52.82	-21 34.8	1.666	2.640	7.7	21.9
8 19	19 47.86	-24 57.5	2.087	2.993	10.3	20.9	8 19	19 44.63	-21 44.3	1.714	2.628	11.8	22.1
8 29	19 42.81	-24 36.4	2.161	2.983	13.3	21.1	8 29	19 38.93	-21 46.8	1.784	2.615	15.3	22.3
33251	1998 <i>HS</i> ₂₄		7 22.9 168°77	1.6/24.1	18		180491	2004 <i>CM</i> ₇₉		7 23.0 174°72	1.0/22.5	17	
6 20	20 31.31	-12 29.4	2.254	3.113	11.8	18.9	6 20	20 37.71	-21 3.0	1.813	2.690	13.3	21.1
6 30	20 26.44	-13 4.4	2.179	3.114	8.8	18.8	6 30	20 31.47	-21 31.4	1.745	2.693	9.7	20.9
7 10	20 19.96	-13 49.7	2.128	3.115	5.5	18.6	7 10	20 23.06	-22 4.2	1.700	2.694	5.7	20.7
7 20	20 12.42	-14 42.9	2.104	3.116	2.2	18.3	7 20	20 13.20	-22 37.3	1.681	2.696	1.5	20.4
7 30	20 4.57	-15 40.3	2.108	3.116	2.7	18.4	7 30	20 2.96	-23 6.4	1.690	2.696	3.5	20.5
8 9	19 57.20	-16 38.1	2.141	3.117	6.1	18.6	8 9	19 53.50	-23 28.4	1.725	2.697	7.7	20.8
8 19	19 51.05	-17 32.8	2.199	3.117	9.3	18.8	8 19	19 45.78	-23 41.9	1.786	2.696	11.5	21.0
8 29	19 46.69	-18 21.8	2.281	3.118	12.2	19.0	8 29	19 40.54	-23 46.8	1.868	2.696	14.8	21.2
353732	2011 <i>WC</i> ₁₂₄		7 22.9 319°87	5.7/25.8	18		356412	2010 <i>TN</i> ₉₈		7 23.0 78°18	3.7/20.9	18	
6 20	20 30.93	-4 57.4	1.836	2.680	14.7	21.0	6 20	20 34.84	-29 45.3	2.183	3.063	11.3	20.9
6 30	20 26.48	-4 32.9	1.756	2.670	11.8	20.8	6 30	20 29.12	-30 23.5	2.124	3.070	8.4	20.8
7 10	20 20.14	-4 24.1	1.697	2.661	8.7	20.6	7 10	20 21.55	-30 58.9	2.090	3.077	5.5	20.6
7 20	20 12.49	-4 31.7	1.661	2.651	6.3	20.4	7 20	20 12.83	-31 27.0	2.081	3.084	3.7	20.5
7 30	20 4.40	-4 55.0	1.651	2.642	6.0	20.4	7 30	20 3.86	-31 44.3	2.100	3.091	5.0	20.6
8 9	19 56.85	-5 30.9	1.666	2.633	8.3	20.5	8 9	19 55.62	-31 49.0	2.146	3.098	7.7	20.8
8 19	19 50.70	-6 15.5	1.705	2.624	11.5	20.7	8 19	19 48.93	-31 41.4	2.216	3.105	10.6	21.0
8 29	19 46.66	-7 4.3	1.766	2.616	14.5	20.8	8 29	19 44.38	-31 23.1	2.309	3.112	13.1	21.1
370003	1999 <i>TX</i> ₁₄₄		7 22.9 316°20	0°1/23.0	18		31643	Natashachugh		7 23.0 120°01	1°0/22.5	18	
6 20	20 33.55	-19 25.5	1.187	2.090	17.0	20.7	6 20	20 37.73	-19 26.9	1.464	2.350	15.4	18.4
6 30	20 29.60	-19 27.8	1.105	2.065	12.7	20.3	6 30	20 31.82	-20 14.6	1.407	2.359	11.2	18.2
7 10	20 22.55	-19 38.1	1.041	2.040	7.6	20.0	7 10	20 23.38	-21 10.2	1.372	2.368	6.5	18.0
7 20	20 13.15	-19 53.0	1.000	2.015	1.8	19.5	7 20	20 13.29	-22 7.9	1.362	2.377	1.6	17.7
7 30	20 2.76	-20 7.9	0.981	1.991	4.3	19.6	7 30	20 2.80	-23 1.3	1.378	2.385	3.9	17.8
8 9	19 53.09	-20 18.7	0.985	1.968	10.3	19.9	8 9	19 53.29	-23 45.5	1.419	2.393	8.7	18.1
8 19	19 45.71	-20 23.0	1.010	1.946	15.8	20.1	8 19	19 45.90	-24 18.0	1.484	2.401	13.0	18.4
8 29	19 41.78	-20 19.8	1.052	1.925	20.6	20.4	8 29	19 41.38	-24 38.4	1.569	2.408	16.6	18.7
87157	2000 <i>NK</i> ₂₂		7 22.9 356°43	2°1/23.3	17		360886	2005 <i>SD</i> ₉₃		7 23.0 226°27	4°1/20.5	18	
6 20	20 37.56	-19 34.8	1.187	2.085	17.4	17.8	6 20	20 35.33	-31 42.4	2.394	3.269	10.6	21.2
6 30	20 32.06	-18 24.1	1.124	2.080	13.0	17.5	6 30	20 29.46	-32 22.4	2.322	3.264	8.0	21.1
7 10	20 23.64	-17 14.9	1.081	2.076	7.9	17.2	7 10	20 21.77	-32 58.7	2.276	3.259	5.5	20.9
7 20	20 13.32	-16 7.9	1.060	2.074	2.8	16.9	7 20	20 12.89	-33 27.0	2.256	3.254	4.1	20.8
7 30	20 2.60	-15 4.5	1.064	2.072	4.4	17.0	7 30	20 3.68	-33 43.6	2.264	3.248	5.2	20.9
8 9	19 53.09	-14 6.1	1.091	2.072	9.7	17.3	8 9	19 55.08	-33 46.9	2.299	3.243	7.8	21.0
8 19	19 46.06	-13 14.2	1.140	2.074	14.6	17.6	8 19	19 47.91	-33 37.1	2.359	3.237	10.4	21.2
8 29	19 42.32	-12 28.7	1.208	2.076	18.7	17.9	8 29	19 42.80	-33 15.9	2.441	3.231	12.8	21.3
168889	2000 <i>WM</i> ₉₅		7 22.9 321°42	1°9/23.5	18		36160	1999 <i>RZ</i> ₂₁₈		7 23.0 181°05	2°5/24.8	18	
6 20	20 32.13	-17 19.2	1.051	1.960	18.3	18.8	6 20	20 30.74	-9 56.9	2.425	3.274	11.4	19.0
6 30	20 28.89	-16 55.3	0.966	1.928	13.9	18.4	6 30	20 25.92	-10 16.6	2.348	3.274	8.7	18.8
7 10	20 22.33	-16 39.9	0.899	1.897	8.6	18.0	7 10	20 19.64	-10 47.0	2.295	3.274	5.7	18.6
7 20	20 13.15	-16 31.7	0.852	1.866	3.0	17.6	7 20	20 12.39	-11 26.5	2.268	3.274	3.0	18.5
7 30	20 2.74	-16 28.3	0.827	1.837	4.7	17.6	7 30	20 4.86	-12 12.5	2.269	3.274	3.1	18.5
8 9	19 52.98	-16 26.7	0.823	1.809	11.0	17.9	8 9	19 57.78	-13 1.9	2.299	3.273	5.8	18.6
8 19	19 45.63	-16 24.7	0.838	1.782	17.1	18.1	8 19	19 51.80	-13 51.3	2.355	3.273	8.8	18.8
8 29	19 42.03	-16 20.2	0.869	1.757	22.4	18.3	8 29	19 47.47	-14 38.2	2.435	3.272	11.5	19.0
246796	2009 <i>EP</i> ₈		7 22.9 292°05	1°9/21.9	18		449972	2015 <i>PX</i> ₃₅		7 23.0 41°42	4°2/20.9	18	
6 20	20 33.53	-22 51.2	1.869	2.754	12.6	20.6	6 20	20 36.26	-31 16.3	2.005	2.886	12.1	20.8
6 30	20 28.52	-23 31.0	1.791	2.743	9.2	20.4	6 30	20 30.31	-31 45.8	1.945	2.890	9.0	20.7
7 10	20 21.39	-24 14.8	1.737	2.733	5.4	20.1	7 10	20 22.30	-32 10.9	1.909	2.895	6.0	20.5
7 20	20 12.80	-24 58.1	1.709	2.722	2.0	19.9	7 20	20 13.02	-32 26.8	1.898	2.899	4.3	20.4
7 30	20 3.72	-25 36.1	1.707	2.711	3.9	20.0	7 30	20 3.49	-32 30.0	1.914	2.904	5.5	20.5
8 9	19 55.25	-26 5.3	1.732	2.701	7.9	20.2	8 9	19 54.82	-32 19.3	1.957	2.909	8.4	20.7
8 19	19 48.36	-26 23.8	1.781	2.690	11.6	20.4	8 19	19 47.87	-31 55.7	2.023	2.914	11.4	20.9
8 29	19 43.82	-26 31.6	1.851	2.680	14.9	20.6	8 29	19 43.30	-31 21.6	2.112	2.919	14.0	21.0
67922	2000 <i>WN</i> ₁₁₃		7 22.9 9°76	0°9/22.8	18		377644	2005 <i>UM</i> ₉₇		7 23.0 210°44	0°6/23.3	17	
6 20	20 36.49	-22 44.2	1.061	1.970	18.1	17.8	6 20	20 35.03	-16 38.9	1.775	2.650	13.7	21.4
6 30	20 31.55	-22 28.7	1.008	1.971	13.3	17.6	6 30	20 29.57	-17 2.6	1.702	2.648	10.1	21.2
7 10	20 23.44	-22 15.4	0.974	1.973	7.8	17.3	7 10	20 21.99	-17 35.0	1.652	2.645	6.0	21.0
7 20	20 13.29	-22 0.7	0.961	1.976	1.9	16.9	7 20	20 12.98	-18 12.8	1.628	2.642	1.6	20.7
7 30	20 2.75	-21 41.7	0.971	1.980	4.5	17.1	7 30	20 3.53	-18 52.0	1.630	2.639	3.1	20.8
8 9	19 53.61	-21 16.8	1.003	1.985	10.2	17.5	8 9	19 54.76	-19 28.6	1.659	2.636	7.5	21.0
8 19	19 47.19	-20 46.9	1.056	1.992	15.3	17.8	8 19	19 47.63	-19 59.8	1.713	2.632	11.4	21.3
8 29	19 44.31	-20 13.1	1.127	1.999	19.6	18.0	8 29	19 42.89	-20 24.0	1.788	2.629	14.9	21.5
290999	2005 <i>XT</i> ₈₃		7 22.9 267°54	2°3/21.4	18		115321	2003 <i>SK</i> ₂₁₉ </					